Advisory Boards

Minutes and Records
December 27, 2025
12/27/2025
December 27, 2025

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1. Affordable Housing Advisory Committee

2. All Terrain Vehicle Park Ad Hoc Committee

2.A. All Terrain Vehicle Park Ad Hoc Committee - No Meeting *(2025-4939)*

ATTACHMENTS
None

3. Animal Services Advisory Board

3.A. December 17, 2025, DAS Advisory Committee Meeting *(2025-4862)*

ATTACHMENTS

1. 12-17-2025 Agenda Email page - DASAC
2. Notice of Public Meeting December 17, 2025
3. 12-17-2025 Agenda Index
4. November 19, 2025, Meeting Minutes
5. November 2025 State Mandated Report
6. Agenda Request Form
7. Adoption Agreement 2025 CAO Final (002)

4. Bayshore Beautification MSTU Advisory Committee

5. Bayshore/Gateway Triangle Local Redevelopment Adv Board

6. Black Affairs Advisory Board

7. Board of Building Adjustments and Appeals

8. Coastal Advisory Committee

8.A. Coastal Advisory Committee- December 11, 2025- CANCELLED *(2025-5002)*

ATTACHMENTS

1. Public Notice - 12.11.2025 -CAC Meeting - CANCELLED

9. CSRM Coastal Storm Risk Management Feasibility Study Advisory Committee

10. Code Enforcement Board

11. Collier County Citizens Corps

12. Contractors Licensing Board

13. Comprehensive Watershed Improvement Program Committee

14. Development Services Advisory Committee

14.A Development Services Advisory Committee (DSAC) — November 05, 2025 *(2025-4912)*
.

ATTACHMENTS

1. DSAC 11-05-2025 FINAL Agenda Packet
2. DSAC 11.05.25 Meeting FINAL Minutes Signed
3. DSAC 12-03-25 Public Notice

15. Emergency Medical Authority

16. Floodplain Management Planning Committee

17. Forest Lakes Roadway and Drainage MSTU Advisory Committee

17.A Forest Lakes Roadway & Drainage MSTU Advisory Committee — December 2, 2025 *(2025-5106)*
.

ATTACHMENTS

1. 1124 Forest Lakes MSTU 1202
2. Agenda & Backup - Forest Lakes MSTU 12-02-25
3. Signed Minutes - Forest Lakes MSTU 11-04-25

18. Golden Gate Beautification MSTU Advisory Committee

18.A Golden Gate Beautification MSTU Advisory Committee — December 16, 2025 *(2025-5107)*
.

ATTACHMENTS

1. 1208 Golden Gate MSTU 1216
2. Agenda & Backup - Golden Gate MSTU 12-16-25
3. Signed Minutes - Golden Gate MSTU 09-16-25
4. Signed Minutes - Golden Gate MSTU 10-21-25

19. Golden Gate Community Center Advisory Board

19.A Golden Gate Community Center Advisory Board - 12-01-2025 *(2025-4941)*
.

ATTACHMENTS

1. Advisory Board Minutes=11-03-2025-Signed
2. Advisory Board Agenda=12-01-2025
3. Golden Gate Community Center Advisory Board _ Collier County, FL

20. Golden Gate Estates Land Trust Committee

21. Golden Gate City Economic Development Zone Advisory Board

22. Haldeman Creek Dredging Maintenance MSTU Adv Committee

23. Historical/Archeological Preservation Board

24. Immokalee Community Redevelopment Advisory Board

24.A Immokalee Community Redevelopment Advisory Board — No December Meeting *(2025-4969)*
.

ATTACHMENTS
None

25. Infrastructure Surtax Citizen Oversight Committee (ad hoc)

26. Land Acquisition Advisory Committee

26.A Land Acquisition Advisory Committee 12/3/2025 *(2025-4967)*
.

ATTACHMENTS

1. 12-3-2025 CCLAAC Agenda
2. 12-3-2025 Hybrid Remote CCLAAC Meeting Public Notice
3. CCLAAC Meeting Minutes (signed) 11-5-2025
4. 4.A. AAL Combined 12-1-2025
5. 5.B.1.a. Parang Trust ICSR
6. 5.B.2.a. Gomez ICSR
7. 5.B.2.b. GAC ICSR
8. 5.B.3.a. Foster ICSR
9. 5.C.1. Greenway & Freedom FCT Management Plan Update
10. 5.C.1. Greenway & Freedom LMP Exhibits
11. 5.C.1. Greenway & Freedom Ped Bridge Feasibility Study
12. 5.C.2. Gordon River Greenway “Preserve” FMP Update
13. Public Speaker Form (signed) 12-3-2025
14. Conservancy Ian Bartoszek comments on Foster property
15. 4.A. Acquisition Updates 12-3-25 Presentation
16. 5.A. FY 26 Conservation Collier Budget Presentation
17. 5.B. ICSRs Presentation
18. 5.B.2. GAC information_email RPMPresentation
19. 5.B.2. GAC_Properties for sale_email Presentation
20. 5.B.2. GAC Land Trust Holdings October 2025_map
21. 5.C. Freedom Park and GreenwayPresentation

27. Lely Golf Estates Beautification MSTU Advisory Committee

27.A Lely Golf Estates Beautification MSTU Advisory Committee — December 18, 2025 *(2025-5108)*
.

ATTACHMENTS

1. 1211 Lely MSTU 1218
2. Agenda & Backup - Lely MSTU 12-18-25
3. Signed Minutes - Lely MSTU 11-20-25

28. Library Advisory Board

28.A Library Advisory Board - No December Meeting *(2025-4819)*
.

ATTACHMENTS

1. Library Advisory Board - No December 2025 Meeting

29. Ochopee Fire Control District Advisory Committee

30. Parks and Recreation Advisory Board

30.A Parks and Recreation Advisory Board - No Meeting *(2025-4940)*
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ATTACHMENTS
None

31. Pelican Bay Services Division Board

31.A Pelican Bay Services Division Board - Dec. 10, 2025 *(2025-4972)*
.

ATTACHMENTS

1. Pelican Bay Services Division Board Public Notice - Dec. 10, 2025
2. Pelican Bay Services Division Board Agenda Packet - Dec. 10, 2025
3. Pelican Bay Services Division Board Approved Minutes - Nov. 12, 2025

32. Productivity Committee

33. Public Art Committee

34. Public Safety Coordinating Council

35. Public Transit Advisory Committee

36. Radio Road Beautification Advisory Committee

36.A Radio Road Beautification MSTU Advisory Committee — December 3, 2025
. CANCELED *(2025-5105)*

ATTACHMENTS

1. 1124 Radio Road MSTU 1203
2. CANCELLED 1202 Radio Road MSTU 1203

37. Rock Road MSTU

38. Tourist Development Council

38.A Tourist Development Council - December 12, 2025 *(2025-5134)*
.

ATTACHMENTS

1. TDC Public Notice Dec 2025
2. December 12, 2025 Tourist Development Council Meeting
3. Sept 16 2025 signed mtg mins

39. Vanderbilt Beach Beautification MSTU Advisory Committee

39.A. Vanderbilt Beach Beautification MSTU Advisory Committee — December 11, 2025 *(2025-5103)*

ATTACHMENTS

1. 1205 Vanderbilt Beach MSTU 1211
2. Agenda & Backup - Vanderbilt Beach MSTU 12-11-25
3. Signed Minutes - Vanderbilt Beach MSTU 12-11-25

40. Vanderbilt Waterways MSTU

41. Water and Wastewater Authority

Collier County
Domestic Animal Services

Domestic Animal Services Advisory Committee

Today's Date:	Meeting Date:	Meeting Time:	News Releases
December 10, 2025	December 17, 2025	6:00 PM	

Public Meeting
Domestic Animal Services Advisory Committee
Advisory Committee Information | Collier County, FL

Review Agenda and Meeting Materials
DAS Advisory Committee December 17, 2025, Agenda and Meeting Materials

Individuals who would like to participate remotely should register at: December 17, 2025 DAS Advisory Committee Meeting registration - Webex

***You will be unable to join the meeting after the scheduled start time ***

We welcome your attendance and feedback.

Contact:
Name: Alexandra Casanova
Phone Number: 239-252-2465
Email: Alexandra.Casanova@collier.gov

Date:
Wednesday
December 17, 2025
6:00 PM

Location:
2800 N. Horseshoe Dr

Collier County Growth Management Community Development Department Building

Conference Room 609/610

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

December 10, 2025

FOR IMMEDIATE RELEASE
Notice of Public Meeting
Collier County
Domestic Animal Services Advisory Committee
Collier County, Florida
December 17, 2025
6:00 p.m.

Notice is hereby given that the **Collier County Domestic Animal Services Advisory Committee** will meet on **Wednesday, December 17,** at **6:00 p.m.** the meeting has been moved to Conference Room 609/610 of the Growth Management Community Development Department, 2800 N. Horseshoe Drive, Naples, Florida.

The agenda will be available on the Collier County Government website at: DAS Advisory Committee December 17, 2025, Meeting Agenda

The public may attend either remotely or in person.
Remote participation is a courtesy and at the user's risk. The County is not responsible for technical issues.

Individuals who would like to participate remotely should register at: December 17, 2025 DAS Advisory Committee Meeting registration - Webex

The deadline to register is 6:00 p.m., December 17. Individuals who register will receive an email in advance of the meeting with instructions on how to participate.

About the public meeting:

Two or more members of the Board of County Commissioners may be present and may participate in the meeting. The subject matter of this meeting may be an item for discussion and action at a future Board of County Commissioners meeting.

All interested parties are invited to attend and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations in order to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodation will be provided at no cost to the individual.

For more information, email Alexandra Casanova at Alexandra.Casanova@collier.gov

Collier County

Domestic Animal Services Advisory Committee
Agenda

Wednesday, December 17, 2025
6:00 pm
2800 N. Horseshoe Dr., Naples, FL 34104
Growth Management Community Development,
Conference Rooms 609/610

NOTICE: Persons wishing to speak on any Agenda item will receive up to three (3) minutes unless the Chairman adjusts the time. Speakers are required to fill out a "Speaker Registration Form," list the topic they wish to address, and hand it to the Staff member before the meeting begins. Please wait to be recognized by the Chairman and speak into a microphone. State your name and affiliation before commenting. During the discussion, Committee Members may direct questions to the speaker.

Please silence cell phones and digital devices. There may not be a break in this meeting. Please leave the room to conduct any personal business. All parties participating in the public meeting are to observe Robert's Rules of Order and wait to be recognized by the Chairman. Please speak one at a time and into the microphone so the Hearing Reporter can record all statements. The public is welcome to attend either in person or remotely.

Individuals who wish to participate remotely should register for the meeting using the Webex Meeting link on the webpage: December 17, 2025 DAS Advisory Committee Meeting registration - Webex

The registration deadline for the meeting is 6:00 p.m., December 17. Individuals who register will receive an email in advance of the meeting detailing how they can participate

1. Call to Order
2. Roll Call – Establish a Quorum
3. Pledge of Allegiance
4. Approval of Agenda (Action Item)
5. Approval of Minutes (Action Item)
    a. November 19, 2025- *Attachment 1*_____*Pages 3 - 8*
6. Public Comment– Items not addressed on this Agenda
7. Public Comment - Agenda Items in Sequence.
8. Staff Updates
    a. Leadership Report- *Attachment 2*_____*Page 9*
    b. General Webpage Updates
        i. Updated Fee Policy replacing 2018-106 with 2025-202
    c. New Agenda Item Request Form – *Attachment 3*_____*Page 10*

9. Old Business
    a. Stray Hold Period for Dogs and Cats (Action Item)
    b. Policy for Releasing Sick Animals from the Shelter
        i. Returning a Sick Animal to the Owner
10. New Business
    a. Adoption Contract- *Attachment 4* _____ *Pages 11-13*
11. Advisory Board Member Comments
12. Adjourn

Future Meeting Dates:
January 21, 2026

MINUTES OF THE MEETING OF COLLIER COUNTY
DOMESTIC ANIMAL SERVICES ADVISORY COMMITTEE
Naples, Florida
November 19, 2025

LET IT BE REMEMBERED that the Collier County Domestic Animal Services Advisory Committee, in and for the County of Collier, having conducted business herein, met on this date at 6 p.m. for a meeting at Growth Management Community Development Department Room 609/610 2800 N. Horseshoe DR. Naples, Florida, with the following members present:

CHAIRMAN: Allen Schantzen
Michele Antonia
Kelly Hyland
Susan Mehas
Meredith McLean
Alexandra Casanova

County Staff in Attendance:
James French, Department Head, GMCD
Alexandra Casanova, Manager, Domestic Animal Services

Any person in need of the verbatim record of the meeting may request a copy of the audio recording from Domestic Animal Services.

I. Call to order

II. Roll Call- Establish a Quorum
A quorum of 4 was confirmed.

III. Pledge of Allegiance
The Pledge of Allegiance was recited.

IV. Approval of agenda

Motion to approve- Michelle Antonia
Motion seconded- Susan Mehas
Motion passed unanimously

V. Agenda and Minutes

A. September 9, 2025, Workshop minutes
Motion to approve- Kelly Hyland
Motion seconded- Michelle Antonia
Motion passed unanimously

B. October 15, 2025, Meeting minutes
Motion to approve- Michelle Antonia
Motion seconded- Kelly Hyland
Motion passed unanimously

VI. Public comment- Items not addressed on this agenda

Tom Kepp- Brought up at the last meeting about animals leaving the shelter with heartworm or hookworm, with no phone calls to Code Enforcement or Sheriff. I asked what are we doing to do going forward to stop this from happening. Who makes the final decision that they go out that door in that shape?
Alan Shantzen- What we can do is make this an agenda item for the next meeting, so it can be formulated with a response, what the corrective action is, and how we interact with code enforcement.
Kelly Hyland- I was told at the last meeting we had to make this an agenda item for the next meeting, which would be this meeting. I sent in my agenda items and this specific item. I asked for it to be placed on the agenda.
Meredith McLean- Kelly's item is under 10D.

VII. Public comment- Agenda Items in Sequence

VIII. Staff Updates

A. Leadership report

Meredith Mclean-
Animal intakes for 10/2025: 674 total. 496 Cats, 154 Dogs, 24 other
Animal Adoptions- 199 total. 122 Cats, 76 Dogs, 1 other.
Transferred out to rescue partners- 159 total. 123 cats, 26 dogs, 5 other.
Current on site- 275 total. 204 cats, 69 dogs, 1 Donkey.
Live release rate- 96.2%, Save rate- 95.1%

Animal Care and Enrichment- Play groups for dogs have increased to 7 days per week. We are working on moving to two times per day.
Volunteer hours for October were 2300 hours from 100 individuals. We are working on electronic sign up for volunteers.

25,000 total followers on our Social Media pages. We are in the process of hiring the marketing coordinator.
Staffing- We currently have 28 full-time staff and 18 key staff. We have 6 positions open: Admin Support Specialist, 3 Customer Service Reps, Program Coordinator, and 2 Animal Care Specialists.
Upcoming Events.

- Kitten College will be on 12/3, 2-fold event. North Collier Regional Park. Geared towards the public and organizations that have or are interested in having foster programs. The first half will be for shelters, fosters, and rescue-based organizations. The second half will be for the public.
- Vaccination Clinic- 12/9 North Collier Regional Park. We secured a donation of microchips. Anyone who attends the clinic will be required to leave with a microchip. We have applied for different grants to provide the vaccines to the public for free going forward.

Susan Mehas- Do you have this so you can send it to me so I can put this on my social media.
Meredith McLean- Yes, I will have this sent to you. This is also posted on our Social Media pages. We are asking people to pre-register for this event.

IX. Old Business

A. Stray Hold Period for Dogs and Cats

- We are currently running a 5-day stray hold for dogs, 5 days for cats with identification, and 5 cats without identification, or animals under a certain age do not have a stray hold.
- The new ordinance is written- Any animal that has identification has to be held for at least 3 days; any other animal does not require a stray hold.

Susan Mehas- The dogs and the cats in the new proposal either way have 3 days?
Meredith McLean- No, if they have identification, it's a minimum 3-day hold; if they do not have identification, we legally do not have to stray hold. This board can make a recommendation on what we think makes sense for these animals. In your packet, I have included comparable shelters to ours and what their hold is.
Alan Schantzen- Page 15, Item 4, when you are talking about microchips and identified cats, is that chipped?
Meredith- It could be chipped or have a collar with a tag on it.
Alan Schantzen- Why are cats identified but not dogs?
Meredith- My understanding is that they are both identified. I can review it with the county attorney for clarification.
Alan Schantzen- Page 18 Item G- County Manager has the final authority to approve the adoption of any animal. The County Manager or Designee may refuse the adoption if it determines the adoption is not in the best interest of the animal or detrimental to the health, safety, and welfare of the public. Must be stressed. Can we get that added into 2?
Meredith McLean- For the return to the owner? I can ask the county attorney, but unless I can get that animal confiscated, I would not be able to hold custody of the animal. I can provide notice to comply which is being discussed at the next meeting.

Meredith McLean- If you would like to make a recommendation, do we want to move to a 3-day hold for dogs without identification, 5 days with, or do we want to stay with our current hold requirements. Right now, it is 5 days for dogs and cats with identification, 5 days for dogs regardless, Cats with no identification, and certain animals underage have no hold. More than 14% of cats are returned in the field, less than 2% of cats are being returned within the shelter walls, that is nationwide.
Alan Schantzen - So the feeling is to keep the retention periods the same.
Susan Mehas- Can we have some time to look through this and bring it back to the next meeting.
Meredith McLean- This has already been approved. We are just discussing if we want to increase to what was written.
Alan Schantzen- Everybody can digest this, and it becomes an action item next time.

B. Shelter Operations and Procedures
Alan Schantzen- Management or supervision performs surveillance of the areas housing the animals no later than 5 pm to ensure the needs of the animals are met by 6 pm. Looking for a standard operating procedure. I would like to have an action item for the two items below to be reviewed by the county manager.
All hands on deck to get the animals bedded down by 5-6 pm each night.
Growth Management plan staff empty the trash and do laundry in the evening to free up staff to walk the dogs.
Motion to approve- Susan Mehas
Motion seconded- Kelly Hyland
Motion Passed unanimously

Kelly Hyland- I had someone reach out to me who said they had called in to the shelter on a Saturday, and the animal didn't get any assistance until Monday. I think a PSA needs to go out so that people know who to call.
Alan Schantzen - If it's a medical emergency, they are concerned about the process and where to go. It should be on our website.
Kelly Hyland- People don't know about DAS, or our website, so what can the public do so they know the procedure of who to call when they need help. So anything animal related is supposed to go to Code Enforcement?
Meredith McLean- On our website, under Lost or found pet, the after-hours numbers are there. Both when we are open and the after-hours number. It rings to the dispatch. We need to get to Kelly's point, which is how we get it out there more.
Alexandra Casanova - During business hours, the number to call for Code Enforcement regarding animal-related matters is 239-252-2440. After 5 pm, the number to call is 239-252-6958. There is dispatch available until 10:00 pm. That is on the Code Enforcement webpage.
Alan Schantzen- Can we have that tagged on the DAS page.

X. New Business
A. Return for Life Adoption Agreement

Susan Mehas- Humane Society has a policy that when you adopt an animal, it is a return for life. That if, for any reason, you can't keep the pet, you can bring it back. I would like to have our policy be a return for life.
Alan Schantzen - We are having problems with just owner surrender right now.
Meredith McLean- Correct. The 30-day policy is they come back and we take them right away. We just couldn't do an open-door policy because we don't have the space. The Humane Society of Naples' policy is a return for life, but it is based on space. Which is what we do with owner surrenders to begin with.

B. Adoption Process Updates- Contracts, Staff Scripts, Intake Forms
Susan Mehas- I would like to see an adoption contract and the scripts that the staff use over the phone.
Alan Schantzen- Meredith can get those sent over to you.

C. TNR Medical Package
Intake Checklists for TNRs
Susan Mehas- They need to put the blood test and flea treatment back in.
Alan Schantzen- Do you want to make a recommendation. It will go to the County Manager.
Meredith Mclean- You can make a recommendation, but this is a veterinary service.
Alan Shantzen- In the processes, she is reading the draft, does that read differently than what was signed by the BCC?
Meredith McLean- We can get the final and send it to you for review.
Alan Schantzen- I would also ask the director to review what was passed by the clerk to what we actually do, so that we make sure this document is current with what was passed.

D. Open Questions Format for Committee Members.
No comments.

XI. Advisory Board Member comments
Susan Mehas- In the things that we do today, we do not ever let an animal leave the shelter, no matter what the situation is, without being sterilized, correct?
Meredith McLean- If it is a return to owner animal, they are eligible to get a breeder's license or provide a statement from their veterinarian that exempts them. If adopted from us, it is automatically spayed/neutered.
Alan Schantzen- If you look at Ordinance 2025.43, Section 3, it states that the committee shall, by majority vote of the entire membership, adopt rules and procedures for the transaction of business and shall keep a written record of the resolutions, findings, and determinations. When you say entire membership, can you clarify if that is 7, 5 or 2. Has there been any more feedback on additional appointees by the BOCC.
Meredith McLean- There have been some applications that have been put forth, but they would have to go to the BOCC before they are presented to this committee.

Alan Shantzen - Build 3 is undergoing renovations. The contractor and county facilities people are working amazingly and respectfully of where we walk the dogs and where the public goes. They sweep the areas every night with magnetic brooms. It is an amazing transformation, and they are doing a fantastic job. For marketing: The T-shirts have gone to $10.00. I would like to ask if volunteers who show up for more than 3 days get a free T-shirt.
Meredith McLean- We are doing that currently.

XII. Next Meeting
Wednesday, December 17, 2025

XIII. Adjourn

****

There being no further business for the good of the County, the meeting was concluded at 8:15 pm.

Collier County Domestic Animal Services

Allen Schantzen- Chairman

These minutes were approved by the Committee/ Chairman on 12/17/2025 as (check one)

presented X, or as amended _____.

Collier County
DOMESTIC ANIMAL SERVICES

Animal Intakes from 11/01/2025 to 11/30/2025

	Cats	Dogs	Other	Total
Surrendered by Owner	5	15	0	20
Stray	294	114	14	422
Confiscated	0	0	0	0
Transferred from within Florida	4	0	1	5
Born in Shelter	0	0	0	0
Total	303	129	15	447

Animal Outcomes from 11/01/2025 to 11/30/2025

	Cats	Dogs	Other	Total
Adoption	147	59	3	209
Reclamation by Owner	3	36	0	39
Died in Care	6	0	0	6
Euthanasia at Owner's Request	1	6	0	7
Euthanasia by Court Order	0	0	0	0
Transfer to another public or private animal shelter	108	37	9	154
Euthanasia	13	2	1	16
Returned in Field/Trapped, Neutered, Returned (TNR)	21	0	0	21
Lost in Care/Missing Animals	1	0	0	1
Total	299	140	12	451

Collier County
Public Services Department
Domestic Animal Services Division

Collier County Animal Services Advisory Board
Request for Presentation to be Placed on Agenda

Individuals requesting that an item be placed on the Animal Services Advisory Board (ASAB) agenda must submit the request in writing to Collier County Domestic Animal Services (CCDAS) within 14 days prior to the date of the meeting. **The request shall be written on the form below** and include any exhibits, backup material and/or presentations that will be given to the ASAB.

It should be noted that your request and all materials submitted are public record and are retained for that purpose.

Name of Speaker: _____ Date: _____

Subject: _____

Purpose: _____

_____

_____

_____

Summary of Presentation: _____

_____

_____

_____

If additional space is needed, please use a blank sheet.

Please return to:
Collier County Domestic Animal
Services Attn: Alexandra Casanova
7610 Davis Blvd
Naples, FL 34104
(239) 252-5552

Or emailed to: Alexandra.Casanova@colliercountygfl.gov

The Division will review your request and determine if the topic is within the ASAB scope and responsibility pursuant to Ordinance No. 2004-06. Final determination of this request is at the discretion of CCDAS.

Collier County Domestic Animal Services

7610 Davis Blvd. Naples, FL 34104
(239) 252-7387 Collierpets.com

Adopter: JOHN SMITH (P11111)
111 PINERIDGE RD
NAPLES, FL 34119 Insertemailhere@gmail.com
(239) 252-738

Adoptee: REESE'S (A09999)
DOG 3Y N
CHOCOLATE

Please make sure you check our data entry skills! _____(initial)

Adoption Agreement

I, JOHN SMITH , hereby agree to all of the following in order to adopt animal# : A09999 REESE'S

1. I take possession and responsibility for this animal.

2. Dogs, cats, rabbits, and ferrets will be implanted with an RFID by Animal Services' staff prior to being released to me.

3. Dogs and cats will be spayed/neutered by Animal Services' veterinarian, or a licensed veterinarian contracted by Animal Services, prior to being released to me.
   a. I understand that an adopted animal will be released to an adopter without sterilization **only** if the Shelter Veterinarian deems the surgery to be a medical risk to the animal's health. If this were to occur, I understand that I am subject to additional fees, Notice(s) to Comply, and/or contracts.

4. I agree to purchase a County Rabies/License Tag for my dog or cat annually or tri-annually, depending on the expiration of the Rabies/License Tag.

5. I agree to keep my dog's, cat's, and/or ferret's Rabies Vaccination current, in accordance with the manufacturer's recommendations.

6. I am not acquiring this animal for any use in research, testing, animal fighting, or animal sacrifice.

7. I recognize that failure to comply with items 1 through 6, above, is a violation of the Collier County Animal Control Ordinance and punishable by a penalty of up to $500.

8. I will follow all applicable laws governing control and custody of animals.

9. I agree to keep this animal current on immunizations and have it examined by a veterinarian annually and as needed.

10. I understand that I am adopting this animal "as-is" and that Collier County makes no warranty as to the temperament or physical condition of the animal. All warranties with regard to this animal, including any implied warranty of merchantability and fitness for a particular purpose, where they are applicable, are hereby specifically disclaimed**. _____(initial)**

11. I understand that the adoption fee I paid for this pet may be refunded if I can demonstrate non-routine veterinary medical expenses incurred within ten (10) days of placement **_____(initial)**

12. I understand that adopted animals may be returned within the first thirty (30) calendar days after placement without incurring an owner surrender fee. If an animal is returned within 30 calendar days of placement, the adopter may adopt a like type animal at no cost within 60 calendar days of the original adoption. I further understand that on the 31st calendar day and all those thereafter, an owner surrender fee will be incurred for adoption returns, irrespective of Animal Services open-to-the public hours. **_____(initial)**

13. I verify that I am 18 years of age or older and fully understand the contractual obligations set forth herein. I agree to accept all risks. I understand that failure to comply with these obligations will be a breach of contract, under which Animal Services may reclaim the animal.

14. I represent that I have never been subject to legal action for cruelty or neglect of animals. I further represent that I have never owned an animal that has been confiscated by an animal control or humane organization for violations of state or local animal control regulations or animal adoption agreements.

15. I discharge Collier County forever from liability for any injury or damage to any person or property caused by the adopted animal, and from any causes, actions, claims, suits, or demands whatsoever that may arise as a result of such injury or damages.

16. I understand that Collier County may specifically enforce this contract through judicial proceedings, including the right of Collier

County to reclaim the animal due to breach of any of the terms of this contract. I agree that in the event I breach this contract, and Collier County files suit to enforce this contract or to defend any claim under this contract, I will pay any court costs and attorney's fees incurred by Collier County in connection herewith in the event that Collier County prevails in the matter.

17. Collier County Domestic Animal Services partners with Hill's Pet Nutrition to provide Hill's Science Diet food to the animals in our care, including your newly adopted pet. For that reason, we share your contact and pet information with Hill's. Your contact information will be retained and used by Hill's solely to deliver offers and promotions under the New Pet Parent Program. For more information about the New Pet Parent Program, please visit www.hillspet.com/new-pet-parent.____**(initial)**

18. I understand that ALL records and information received by Domestic Animal Services is subject to the Florida Public Records Act, unless a specific statutory exemption exists, and it is my responsibility to notify staff if I believe I am exempt, as per FSS 119.017.

_____ _____

Adopter Signature *Date* *CCDAS Signature* *Date*

OFFICE USE ONLY

Required:

_____ Microchip (RFID) Registration; confirmed chip company

_____ Pet insurance and activation process _____ Adoption Packet Contents _____ Food Bag with Guidance

_____ Rabies Certificate or 'Too Young' flyer _____ Medical History _____ Docupet Complete or TY Flyer

Optional; *to be provided if requested/relevant:*

_____ New Environment adjustments _____ Ongoing Veterinary Care _____ Other pet in home adjustments

_____ Other: _____

RELEASE OF LIABILITY, DUTY TO DEFEND, HOLD HARMLESS & INDEMNIFICATION AGREEMENT

On behalf of myself, and the organization I represent, by signing below, waive and release Collier County Board of County Commissioners, their directors, officers, boards, departments, commissioners, agents, employees, and/or volunteers from any and all claims of damages for veterinarian costs, medical treatments, personal injuries, loss or damage to property, defense costs, attorney's fees, or any other claims for damages of any type whatsoever, arising out of, or in any way related to, or contributed by, the adopted animal's health condition(s) or behavior.

On behalf of myself and the organization I represent, by signing below, further agree to indemnify, defend, and hold harmless the Collier County Board of County Commissioners, their directors, officers, boards, departments, commissioners, agents, employees, and/or volunteers from any and all liability for any claims whatsoever arising out of, or in any way related to, or contributed by, the animal's health condition(s) or behavior, whether now known to me or unknown, even if such claims are alleged to have been caused by the negligence or intentional wrongful misconduct of the Collier County Board of County Commissioners, their directors, officers, boards, departments, commissioners, agents, employees, and/or volunteers.

A09999: REESE'S

Additional Comments:

[Insert Pet notes for adopter here]

No other pets in the home. Separation Anxiety.

Adopter/Representative Signature
P1111 JOHN SMITH

Date

Witness (DAS)

Manager/Supervisor (DAS)



7610 Davis Blvd Naples, FL 34104 | (239)252-7387 | Collierpets.com

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

December 2, 2024

FOR IMMEDIATE RELEASE

Notice of CANCELLED Public Meeting
Collier County Coastal Advisory Committee
Collier County, Florida

December 11, 2024
1:00 p.m.

Notice is hereby given that the **Coastal Advisory Committee** meeting scheduled for **1:00 pm, Thursday, December 11th** to be held at 3299 Tamiami Trail E has been **CANCELLED.**

For more information, call Maria Becerra 239-252-2966.

###

Collier County

Growth Management Community Development Department

Development Services Advisory Committee Meeting

Wednesday, November 05, 2025
3:00 pm

2800 N. Horseshoe Dr.
Naples, FL 34104
Growth Management Community Development Department
Conference Room 609/610

Please contact Heather Cartwright-Yilmaz at (239) 252-8389 if you have any questions or wish to meet with staff.

Collier County
GROWTH MANAGEMENT
COMMUNITY DEVELOPMENT

Development Services Advisory Committee

Agenda

Wednesday, November 05, 2025

3:00 pm

2800 N. Horseshoe Dr., Naples, FL 34104

Growth Management Community Development, Conference Rooms 609/610

NOTICE:

Persons wishing to speak on any Agenda item will receive up to three (3) minutes unless the Chairman adjusts the time. Speakers are required to fill out a "Speaker Registration Form", list the topic they wish to address, and hand it to the Staff member before the meeting begins. Please wait to be recognized by the Chairman and speak into a microphone. State your name and affiliation before commenting. During the discussion, Committee Members may direct questions to the speaker.

Please silence cell phones and digital devices. There may not be a break in this meeting. Please leave the room to conduct any personal business. All parties participating in the public meeting are to observe Roberts Rules of Order and wait to be recognized by the Chairman. Please speak one at a time and into the microphone so the Hearing Reporter can record all statements being made.

1. Call to order – Chairman
2. Approval of Agenda
3. Approval of Minutes:
    a. DSAC: 10.01.2025 (Page: 4)
4. Public Speakers

For more information, please contact Heather Cartwright-Yilmaz at (239) 252-8389
or at Heather.Yilmaz@colliercountyfl.gov

5. Staff Announcements/Updates
    a. Zoning Division – [**Mike Bosi**]
    b. Community Planning & Resiliency Division – [**Christopher Mason**]
    c. Housing Policy & Economic Development Division – [**Cormac Giblin**]
    d. Development Review Division – [**Jaime Cook**]
    e. Operations & Regulatory Mgmt. Division – [**Michael Stark**]
    f. Building Review & Permitting Division – [**Building Division**]
    g. Collier County Fire Review – [**Michael Cruz, Captain**]
    h. North Collier Fire Review – [**Chief Sean Lintz or designee**]
    i. Code Enforcement Division – [**Thomas Iandimarino**]
    j. Public Utilities Department – [**Matt McLean or designee**]
    k. Transportation Management Services

       Transportation Engineering Division – [**Jay Ahmad or designee**]
6. New Business
    a. DSAC Vacancies: Review and Vote
        i. James Boughton Category: Architect
        ii. Clay Brooker Category: Attorney
        iii. Jeffrey Curl Category: Landscape Architect
        iv. Chris Mitchell, P.E. Category: Engineer
    b. Sidewalk Payment in Lieu (PIL) – Jeffrey Curl Request
7. Old Business
8. Committee Member Comments
9. Adjourn

FUTURE MEETING DATES:

December 03, 2025 – 3:00 PM
January 07, 2026 – 3:00 PM
February 04, 2026 – 3:00 PM

MINUTES OF THE COLLIER COUNTY
DEVELOPMENT SERVICES ADVISORY COMMITTEE MEETING

Naples, Florida
October 01, 2025

LET IT BE REMEMBERED, the Collier County Development Services Advisory Committee and Collier County, having conducted business herein, met on this date at 3:00 PM in REGULAR SESSION at the Collier County Growth Management Community Department Building, Conference Room #609/610, 2800 N. Horseshoe Dr., Naples, Florida, 34102 with the following members present:

Chairman:	William J. Varian
Vice Chairman:	Blair Foley
	James Boughton - Excused
	Clay Brooker - Excused
	Jeffrey Curl
	Laura Spurgeon DeJohn - Excused
	John English - Excused
	Marco Espinar
	Norm Gentry
	Nicholas Kouloheras
	Mark McLean
	Chris Mitchell
	Robert Mulhere
	Hannah Roberts – AHAC (Non-voting) - Excused
	Jeremy Sterk - Excused
	Mario Valle

The following County staff were in attendance
James French, Department Head, GMCD
Mike Bosi, Director – Zoning, GMCD
Christopher Mason, Director – Community Planning & Resiliency, GMCD
Cormac Giblin, Director – Housing Policy & Economic Development, GMCD
Lisa Blacklidge, Manager – Development Review, GMCD
Jaime Cook, Director – Development Review, GMCD
Michael Stark, Director – Operations & Regulatory Management, GMCD
James French, Department Head, GMCD Designee for Building Review & Permitting Division, GMCD
Captain Michael Cruz, Collier County Fire Review
Captain Bryan Horbal, North Collier Fire Review
Thomas Iandimarino, Director – Code Enforcement, GMCD
Claudia Vargas, Project Manager I – Public Utilities Engineering & Project Management, PUD
Matt Thomas, Manager – Transportation Management Services, Transportation Engineering Division
Eric Johnson, LDC Planning Manager – GMCD
Richard Henderlong, Planner III – Zoning, GMCD
Heather Cartwright-Yilmaz, Management Analyst / Staff Liaison, GMCD

Any person who decides to appeal a decision of This Board you will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based, neither Collier County nor This Board shall be responsible for providing this record.

1. **CALL TO ORDER– Chairman**
   William Varian
   Development Service Advisory Committee, Wednesday, October 1st, 2025, was called to order at 3:00 PM.

2. **APPROVAL OF AGENDA**
   William Varian- Motioned to amend the Agenda moving Items F (Building review and permitting) to last.
   Motion Seconded-Jeff Curl
   Motion passed unanimously

3. **APPROVAL OF MINUTES**
   - ***A. DSAC-LDR: 08.19.2025***
     Motion to approve- Mark Mclean
     Motion seconded- William Varian
     Motion passed unanimously

   - ***B. DSAC-IFR: 08.27.2025***
     Motion to approve-Mario Valle
     Motion seconded- William Varian
     Motion passed unanimously

   - ***C. DSAC: 09.03.2025***
     Motion to approve- Blair Foley
     Motion seconded- Jeff Curl
     Motion passed unanimously

   - ***D. DSAC-LDR: 09.16.2025***
     Motion to approve-Blair Foley
     Motion seconded- Mark McLean
     Motion passed unanimously

4. **PUBLIC SPEAKERS**
   None

5. **STAFF ANNOUNCEMENTS**
   a. **Zoning Division – [Mike Bosi, Director]**
      - New Staff member joined. Received one notice**.**
      - BOCC approved a handout to bring to neighborhood meetings. Explains NIM Process.

b. Community Planning & Resiliency Division – [Christopher Mason, Director]

- The division has completed two studies over the last year. Repetitive loss area analysis and Vulnerability Assessment.
- Submitted request for two new studies. Adaptation plan which is a component of the Vulnerability Assessment and updating Flood Management plan for the first time in two years.

c. Housing Policy & Economic Development – [Cormac Giblin, Director]

- Last BCC meeting board adopted the last incentives from the housing plan.
- Allow up to 25 units per acre in the development of an activities center if you include affordable housing.
- All up to 25 units per acre by doing a development along a transit route with a transit-oriented design and include affordable housing.

Nicholas Kouloheras- What is the minimum requirement of affordable housing to qualify
Cormac Giblin- 30% of the units. 6 or 7 of the 25.

d. Development Review Division – [Lisa Blacklidge, Manager]

- No updates.

e. Operations Support & Regulatory Management Division – [Michael Stark, Director]

- Permit applications have increased in 2025 by 3.8% up to 51,667
- Business center staff have improved the turnaround time from 1.2 days to .7
- Call volume increased in September to 5712 calls with only 576 abandoned calls
- The department has 623.5 positions with 67 positions in the pipeline.

Blair Foley- We talked about improving timing and the ability to get projects through sufficiency. Do we have some data in the package or is that something you can work on?
Michael Stark- We were talking about the intake process. We have developed some Power BI reports. We will have something for the next meeting.

f. Collier County Fire Review – [Michael Cruz, Captain]

- Applicants submitted for our open positions, Inspector and Water Technician, that will be running out of Fire and Life Safety office.
- October 3rd is Fire Prevention safety day. Hosting and event at Coastland Center Mall.

g. North Collier Fire Review – [Bryan Horbel, Captain]

- We had 755 plans come in. 2-day turnaround.
- 59 Planning permits with a 2-day turnaround.
- New Construction inspections conducted 1353
- Next day on inspections.
- Added Inspector to the team and we have Plan Review position open**.**
- Annual Halloween party October 25th. 5-7pm. Headquarters station 85.

h. Code Enforcement Division – [Thomas Iandimarino, Director]

- Park Rangers are now underneath Code Enforcement. Acquired new handheld printers to print citations on parking violations on the beaches and boat ramps.

i. Public Utilities Department – [Claudia Vargas, Project Manager]

- Emails have changed domain to Collier.gov. The website has changed domain as well to Collier.gov.

j. Transportation Management Services, Transportation Engineering – [Matthew Thomas, Supervisor of Project Management]

- Vanderbilt beach widening- 4-6 lanes west of Airport Road. 1.8 Miles. Watson Civil Construction has been awarded the contract. Anticipated to start 01/2026. 2 years for final completion.
- Vanderbilt Beach extension phase 1 at 79% of work and 84% completion of time.
- Immokalee Road median improvements. There is a total of 6 median improvements including restricting left turn movements eliminating traffic conflicts on Immokalee Road. 5 are completed. The last one should be completed in late October.
- Green Boulevard- Adding 5-foot bike lanes on either side of Green Blvd. Relocating two bus shelters and replacing existing drainage structures. Completed on time and within budget on September 23rd.
- Everglades Blvd and 43rd intersection drainage improvements. Quality Enterprises is the contractor and has completed 20% of the work. Anticipated completion of the project is June 3rd, 2026

k. Building Review & Permitting Division – [James French, Department Head]- Moved to the end.

- New Construction Study- Retrofit and Maintenance are the top categories. Mechanical, Electrical, windows and roofs.
- Discussed contractors not filing permits in a timely manner for My Florida Safe Home program. Residents almost missing strict deadlines and the department having to intervene to get projects moving.
- 20-25,000 Building inspections monthly.
- Milestone inspections- 508 completed, 368 not due, 9 Delinquent. 14 Phase 2 permits have been identified. Consistent with Florida Condo Safety Mandate from the State of Florida
- Land Development services are maintaining 93% on time.
- We are going to continue to pilot the self-certification program for the contractors to expand some of our video inspections.

William Varian- Has there been discussion on penalties
James French- If it's a licensed contractor we do have the ability to charge twice the fee**.**
William Varian- If it's a repeat offender it's something you may want to consider

Collier County Building Department Fee Study
Robert Orie- [Senior Principal, Raftelis]

Study Objectives

- Identify the cost of providing service
- Evaluate the ability of the building fees to fund the revenue requirements.
- Update the schedule of fees and charges
- Ensure compliance with Florida Statutes. Chapter 553.80(7)(a)

Building Department Background

- Cumulative inflation since 2010 is 48% or 2.7% per year
- Permit fees have only increased 14% or approximately .9% per year.
- Permit fees reviewed assume 3000sqft SFR and 28 inspections.

Fee Evaluation Process

- Identify total operating cost allocated to the Building Department
- Identify "Target Revenues" based on projected building planning and permit service activity.
- Reviewed historical building permit activity from 2021-2024 and YTD 2025. Assumed 2024 and 2025 would be most representative of future development activity
- Develop revenue requirements
- Design proposed permit and planning fees to fund revenue requirements
- Prepare and adopt rate resolution to implement rate recommendations

Results /Findings

- Fee increases anticipated in 2026 and consider using CPI Index for future years. County Should monitor the forecast each year.
- Rate recommendation is doubling the current fees in most areas.
- Revenue adjustments 52% in 2026. CPI adjustment for future year

Cash Reserves

- Pursuant to Florida Statutes, Chapter 553.80(7)(a) Operating reserves cannot be greater than average operating budget for the last 4 fiscal years.
- Capital Reserves are not considered a component of operating reserves
- Reserve target is $24,807,500 we are behind by $15,184,755

Recommendations

- Building department revenues do not appear to recover the total cost of services provided.
- Rate adjustment recommended FY 2026 to be implemented January 2026
- Annual CPI adjustment to minimize general inflation impacts on cost.
- Review rates every 3 years.

James French- If permitting shut off today, we have 3 months of payroll. Payroll has increased 35-40% while not doing a fee increase since 2012. Rate increases should have been done 10 years ago.
William Varian- How are the rents being charged calculated

James French- We used current market value. $20.00 per square foot. We charge North Collier $50,000.00 per year. That doesn't cover the cost of computers or use of City View. That was a number that was negotiated a long time ago.
Robert Mulhere- Building department, planning and zoning are general funds.
James French- Planning, Zoning, Engineering and Environmental are within 131 cost centers.
Robert Mulhere- Are you getting ready to move forward to the board soon correct
James French- Board has taken a position for us to go back and look at inefficiencies throughout the county. They have asked ResourceX to go through everything.
Robert Mulhere- I do think it's important if there is any type of activities that we may not be charging for, to look into those. It may have been imbedded into the presentation.
James French- I could provide this to you, but not before the board meeting. We can break that down for you. We could bring it based on your recommendation to the board and demonstrate that to the board.
Robert Mulhere- Appreciate the recommendation for a more regular review of fees. 3 years is a good number. Considering the CPI and volume.
Mark McLean- When you're dealing with current numbers, with this future projection and higher rates, are you projected to be fully staffed and possible raises?
James French- I only wanted a snapshot of what we can look back and defend. 3 years is a good window.
Robert Mulhere- Today is the start of the new budget year. That budget includes all of the vacant positions you wanted to fill. Unless the position was denied.
James French- They developed a work force pool. Parks and Rec, General fund, specialty funded positions, Animal control, are guaranteed open positions that I can fill here so long as I have an available candidate to negotiate filling the position.
Robert Mulhere- There is an assumption of a certain amount of cost that may be lower than the overall budgeted labor amount. We are covered now and with a regular rate review.
James French- As I build the reserve fund balance, I have the ability to go back to the board and ask for a Reserve fund transfer. We had those services that we collected money for that were yet to be delivered. We have been pulling that down from 4 million down to 1.2 million now. WE do have some money left.
Nick Koulaheras- What I worry most about is we ripped the band aid off just to put a bigger one on. What I picked up from slides is we do all of this and are still not there yet, we never get to the state statute of what the reserve should be. I like the idea of a 3-year review but with a CPI index tracking in-between, so you are never 3 years behind.
William Varian- I think you can hear, we are not opposed to any of this because we are going to get the service, we just want to make sure we do this right.
Mark McLean- It's about getting not just what you need today, but what you are going to need 36 months from now.
Mario Valle- The industry and our clients would be willing to pay to get the level of service needed.
James French- If it's the direction of the committee based off of what we worked on with the consultant, to focus more on the reserve fund balance so there is consistency and dependability in the regulatory side of our industry and not relying on the general fund. I am with you. I am still a little reluctant to get full support. In the past when we have had a healthy reserve fund balance, we have always been a target.

Norm- You are on the right track while worrying about the reserve fund, it's a balance. But the last time we raised fees was in 2010
James French – The last time we increased fees was in 2010.
Jeff Curl- So our motion moving forward is to focus on the reserves, I agree with Nick to have the Consumer price index being worked in and revisiting every 3 years. Does that handcuff you in anyway?
James French- Yes no later than 3 years, the only thing that would take DSAC involvement, we are going to have a defendable CPI that relates to your industry, but it would still have to go to the board for adoption.

Robert Mulhere- I will make a motion that we support the consultant's recommendation for Jamie to take it to the board. Including supporting a 3-year re-study by adjusting those fees, if necessary, on an annual basis based on the CPI.
Motion seconded- Mark McLean
Motion passed unanimously

Robert Mulhere- For the meeting are you looking for someone to be at the board meeting with you or a letter of support?
James French- A letter of support would be helpful. From the chairman.
Robert Mulhere- Let us know if you can get a time. I will be there on the 28th.

6. NEW BUSINESS

a. PL20250010243 - Development Order Process and Timeframes- LDCA
Richard Henderlong, Planner III, GMCD

On June 24th, 2025, the governor approved Senate Bill 1080 which amended Statutes FS.125.022, FS.163.31801 and FS.166.033. That regulates the review and approval of land development permits and development order applications by local governments.

The new Law Chapter 2025-177 will become effective on October 1st, 2025.

1. The required processing starts with an acknowledgement of receipt within 5 days.
2. Application must be reviewed for completeness within 30 days
3. Non-quasi-judicial hearing applications must be approved or denied within 120 days.
4. Quasi-judicial applications within 180 days.

During a public meeting/hearing an applicant can request an extension in writing

If an applicant makes a substantial change to 15% or more in density or the square footage of the parcel, it automatically resets the 120–180-day timeclock. Secondly, the statute requires the county to issue refunds as a percentage of the application fee in the event it fails to meet the review time.

1. 10 percent for failure to issue written notice of completeness or areas of deficiencies within 30 days after receiving the application submittal or request for additional information

2. 20 percent for failure to send written notice or areas of deficiencies within 10 days of the second request for information and the applicant submits required information within 30 days
3. 50 percent if the county fails to approve, approve with conditions, or deny the application within 30 days after conclusion of the 120-day or 180-day public hearing timeframe
4. 100 percent if the county fails to act after 30 days and the conclusion of the 120-day or 180-day timeframe
5. If the applicant and county agree to an extension of time, the delay is caused by the applicant or attributable to a force majeure, the county is not required to issue a refund.

Marco Espinar- Why 120 days
Richard Henderlong- That is determined by the State Legislators
Mark McLean- When the applications come in are they being taken in order they came in or based on need
Richard Henderlong- It starts at intake once the application is deemed complete.

Blair Foley- Motion to approve PL20250010243
Motion seconded- Jeff Curl
Motion passed unanimously

William Varian- I just want to confirm that you would like me to do a letter based on the fee schedule. That I have the committee support.

Robert Mulhere- I make a motion that the chairman prepares a letter supporting the fee increase.

Motion Seconded- Norm Gentry
Motion passed unanimously

7. OLD BUSINESS

8. COMMITTEE MEMBER COMMENTS
None

9. ADJOURN

Future Meeting dates
November 5th, 2025 3:00 PM
December 3rd, 2025 3:00PM

There being no further business for the good of the County, the meeting was adjourned at 4:50PM.

COLLIER COUNTY
DEVELOPMENT SERVICES ADVISORY COMMITTEE

_____
William Varian, Chairman

These minutes were approved by the Committee/Chairman on 11/5/25,
(check one) as submitted ✓ or as amended _____.

Collier County

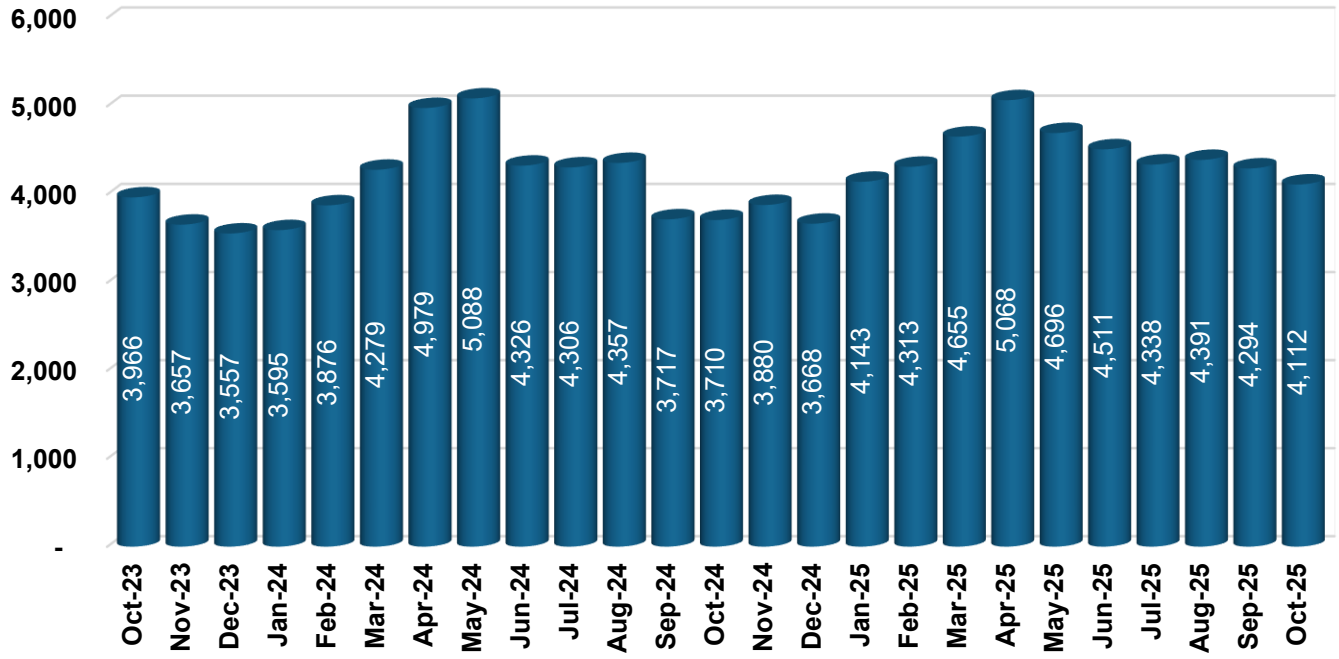
October 2025

Monthly Statistics

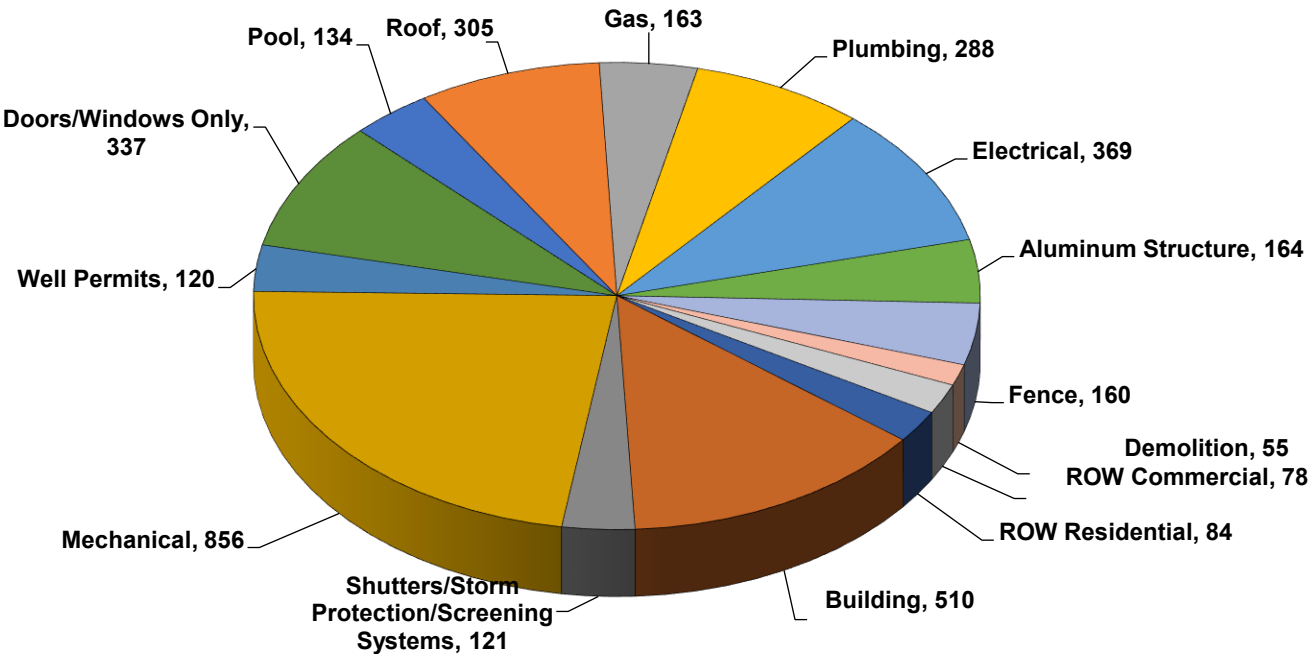


Building Plan Review Statistics

All Permits Applied by Month

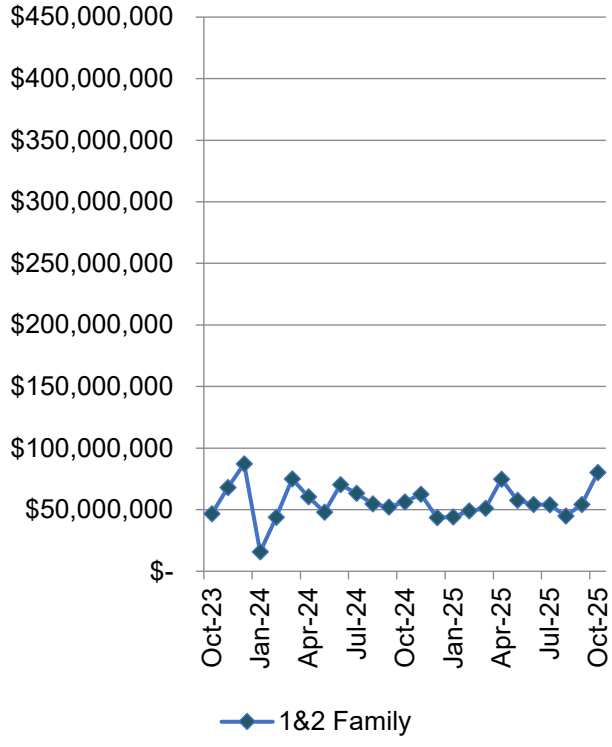


Top 15 of 35 Building Permit Types Applied

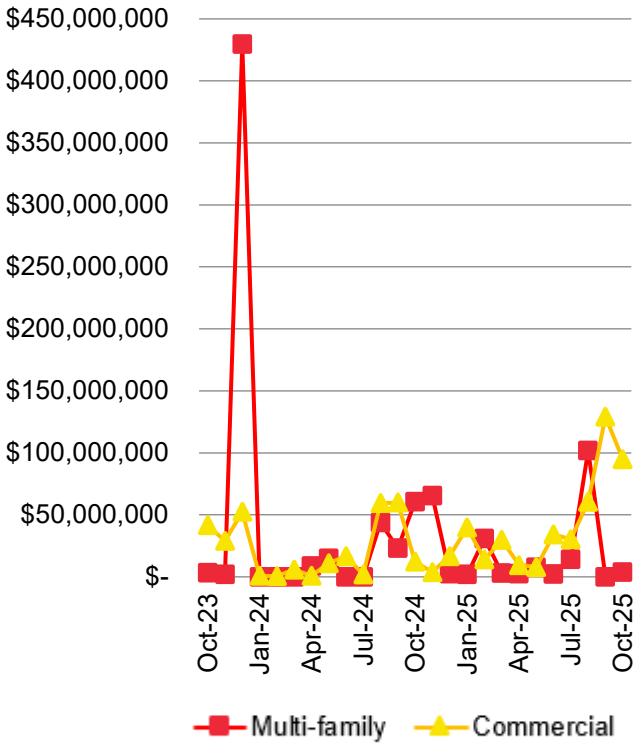


Building Plan Review Statistics

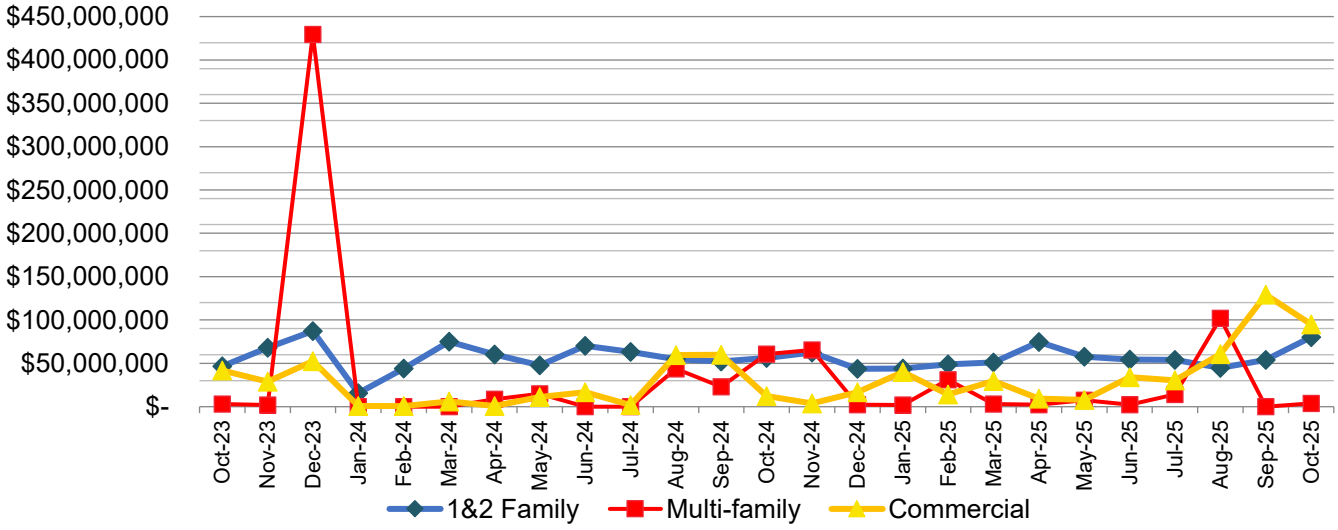
Monthly 1 & 2 Family Total Construction Value by Applied Date



Monthly Multi-family & Commercial Total Construction Value by Applied Date

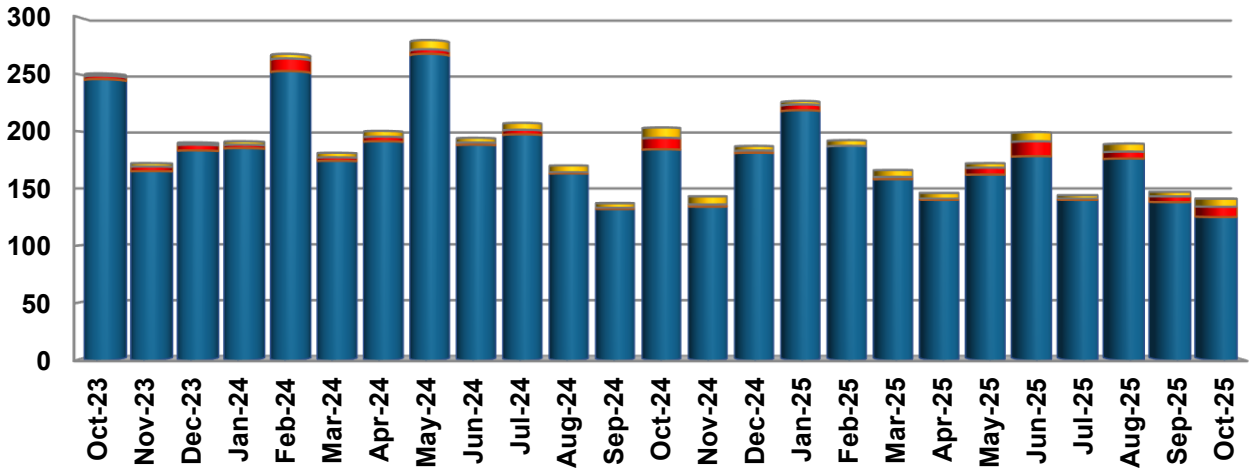


Monthly Total Construction Value by Applied Date



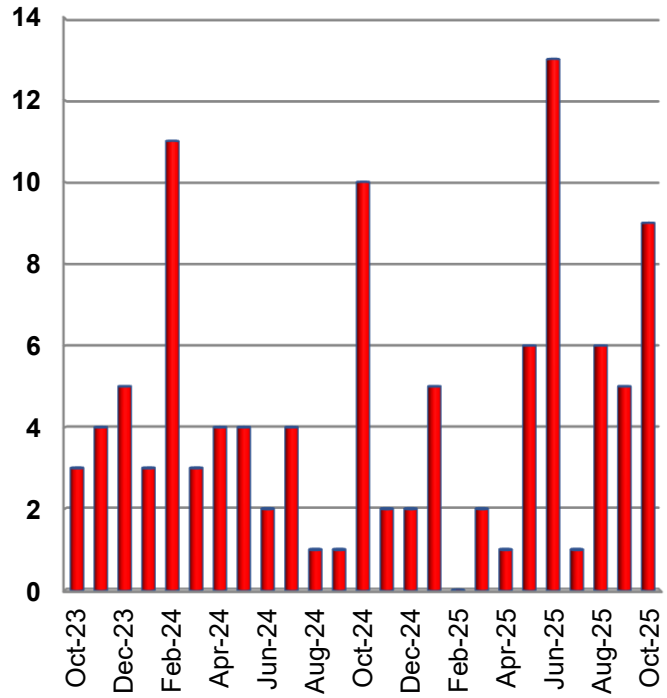
Building Plan Review Statistics

New Construction Building Permits Issued by Month

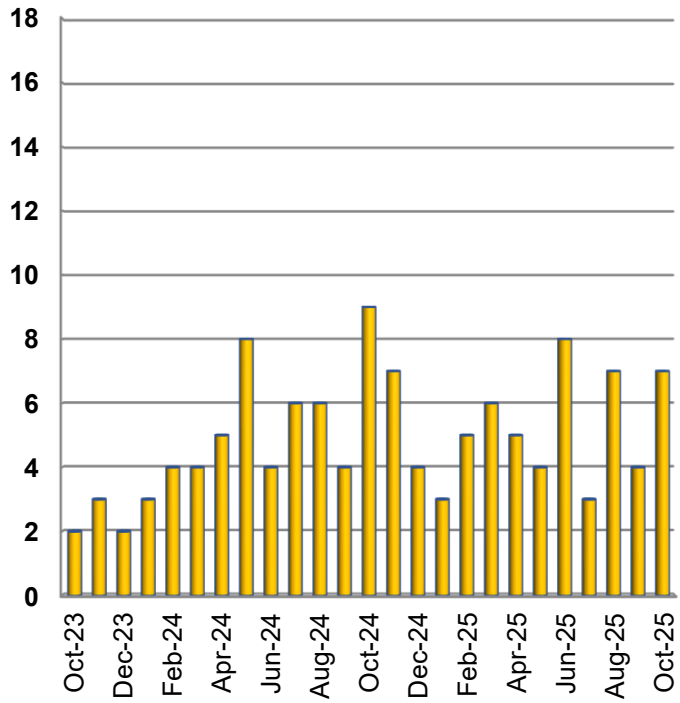


	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25
Commercial	2	3	2	3	4	4	5	8	4	6	6	4	9	7	4	3	5	6	5	4	8	3	7	4	7
Multi-family	3	4	5	3	11	3	4	4	2	4	1	1	10	2	2	5	0	2	1	6	13	1	6	5	9
1&2 Family	245	165	183	185	252	174	191	267	188	197	163	132	184	134	181	218	187	158	140	162	178	140	176	138	125

New Multi-family Building Permits Issued by Month

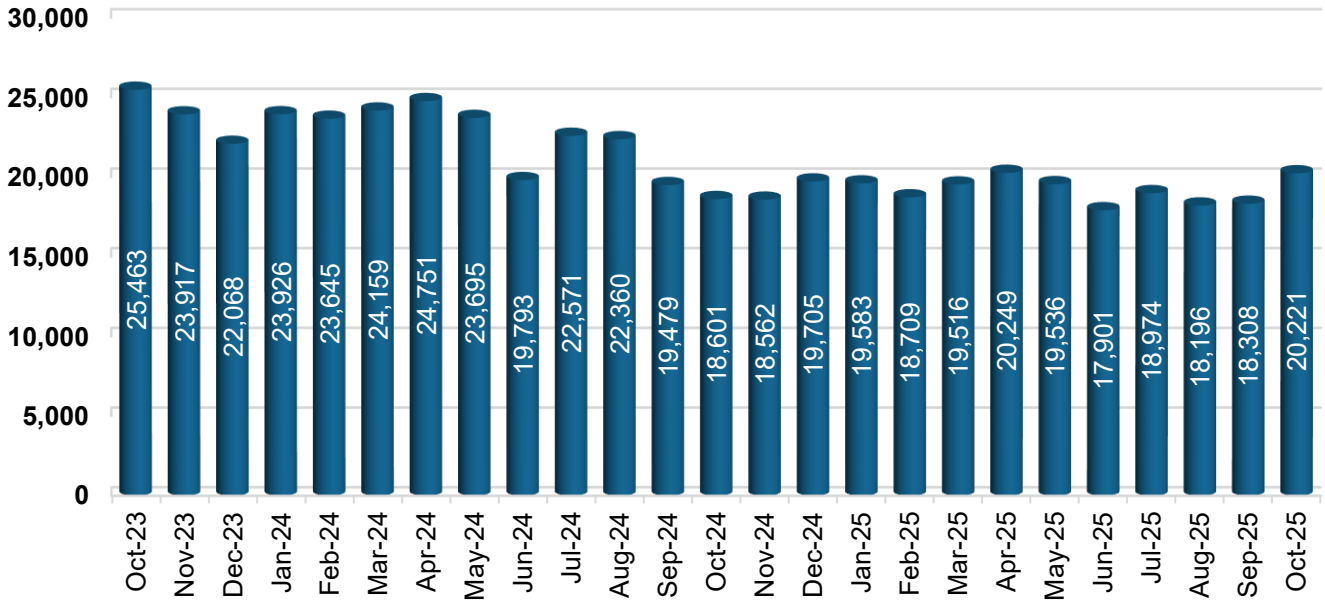


New Commercial Building Permits Issued by Month

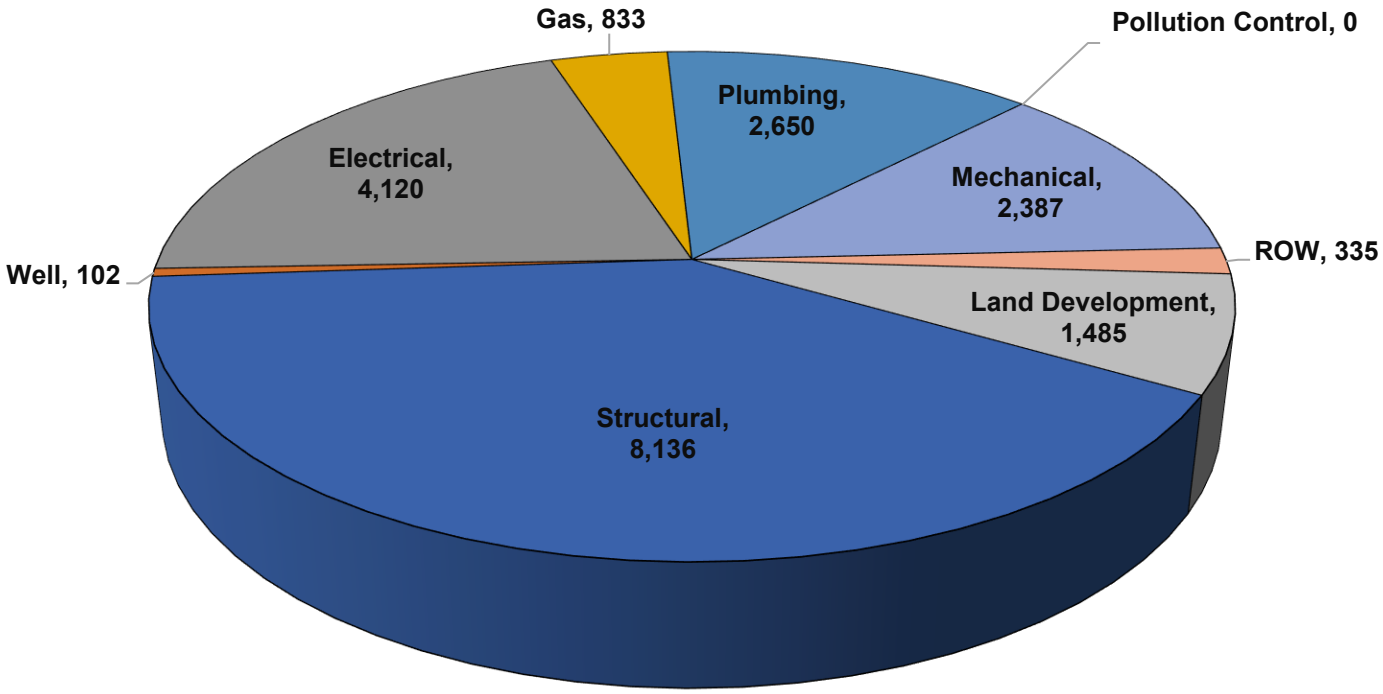


Building Inspections Statistics

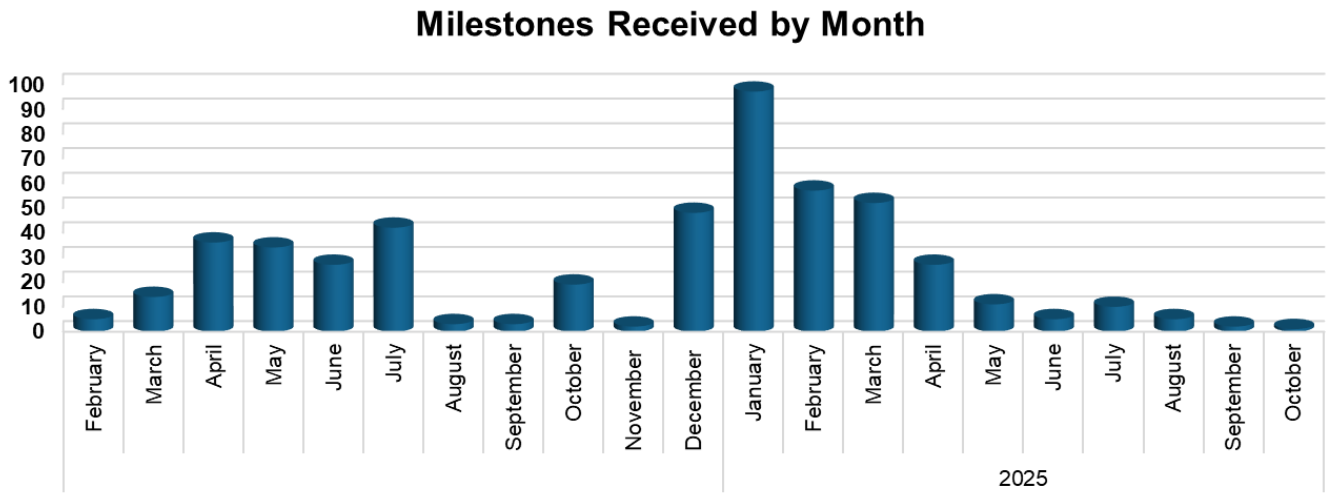
Building Inspections

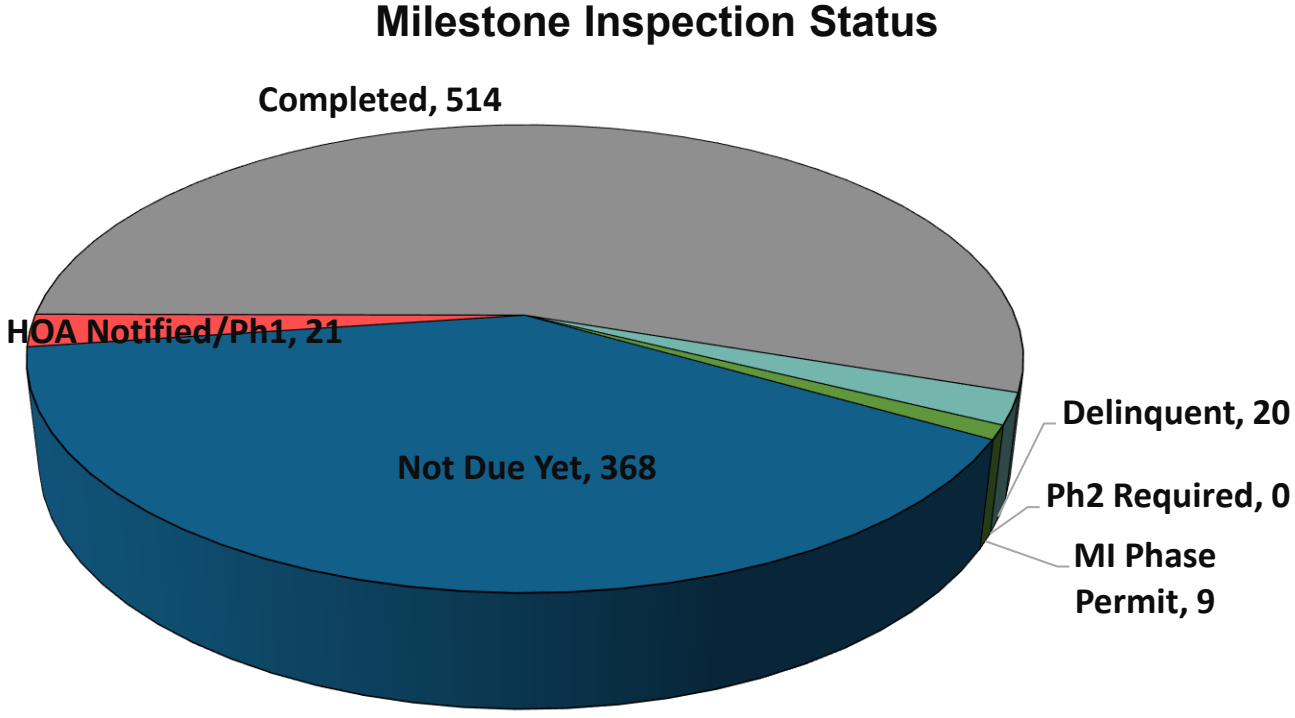


Types of Building Inspections

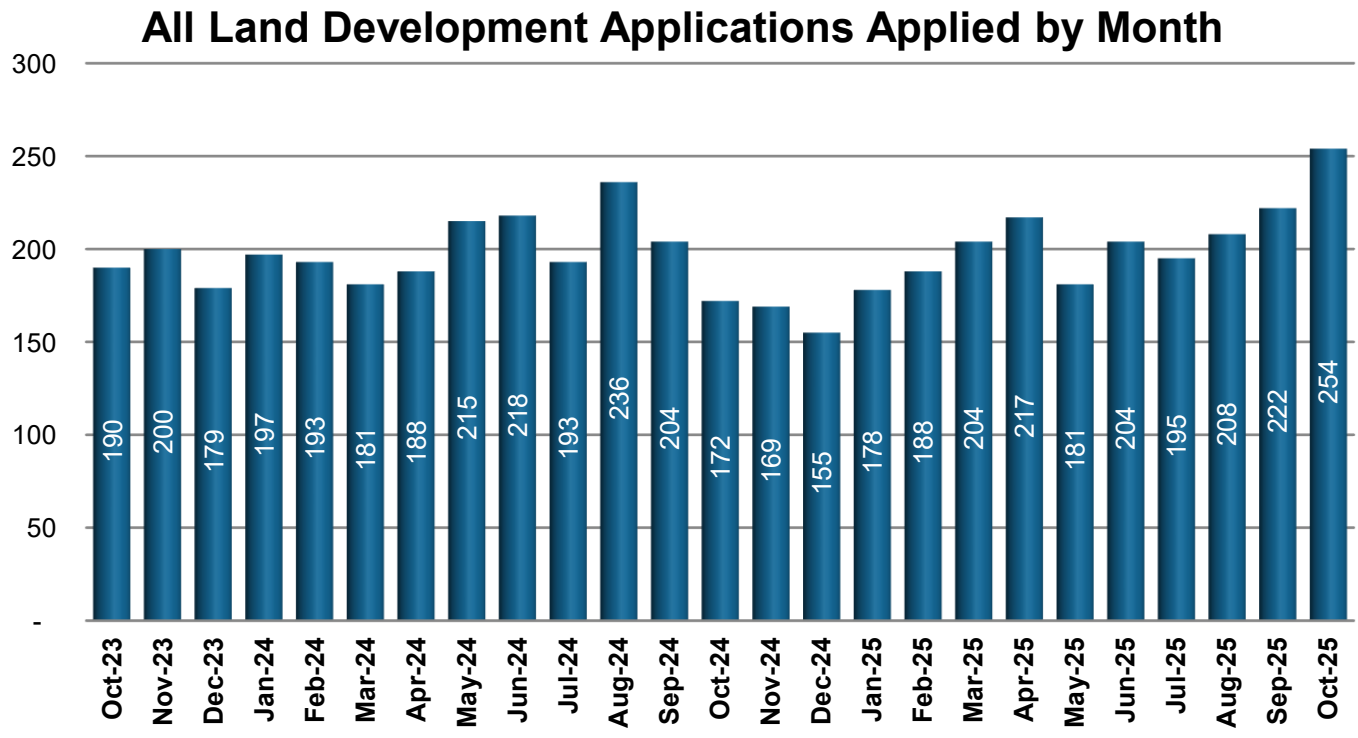


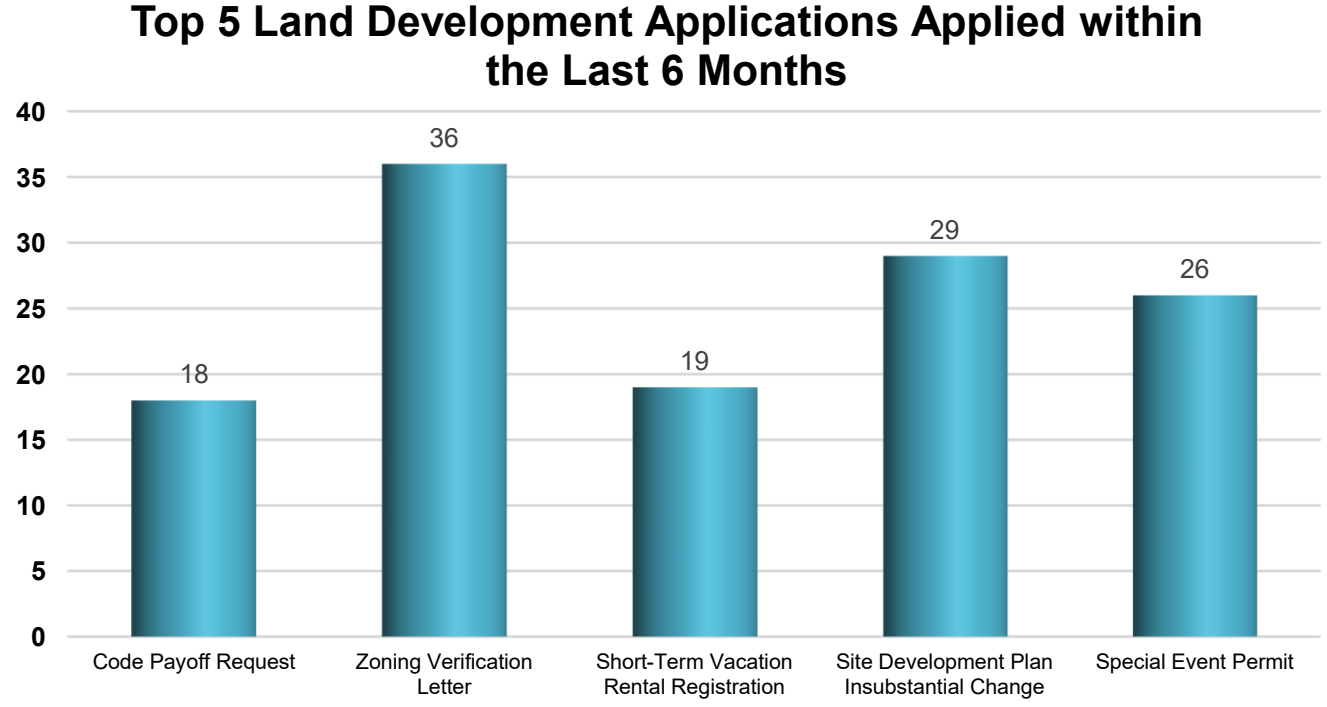
Building Inspections Statistics





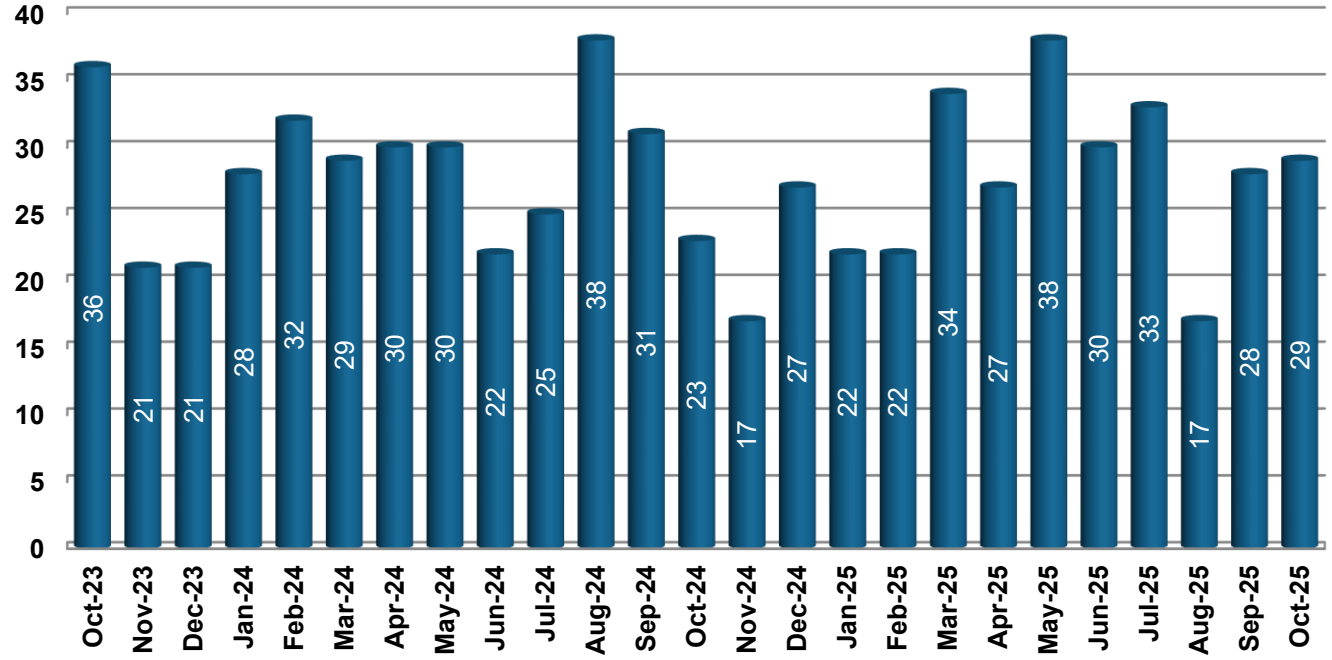
Land Development Services Statistics



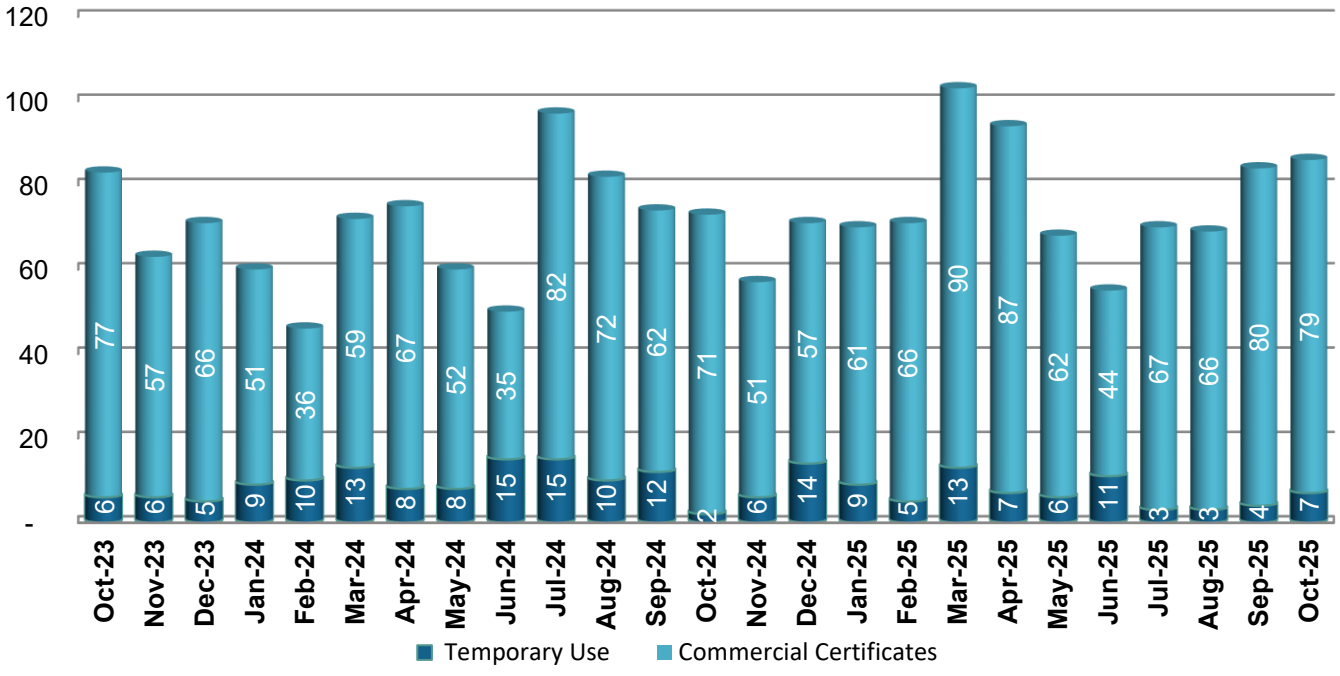


Land Development Services Statistics

Pre-application Meetings by Month

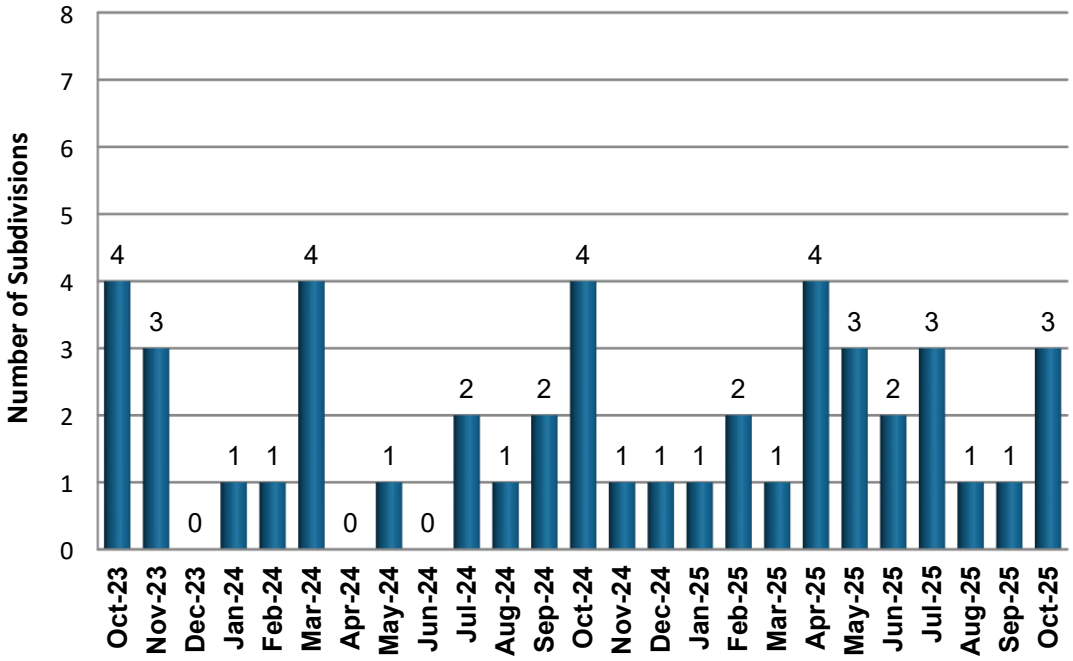


Front Zoning Counter Permits Applied by Month



Land Development Services Statistics

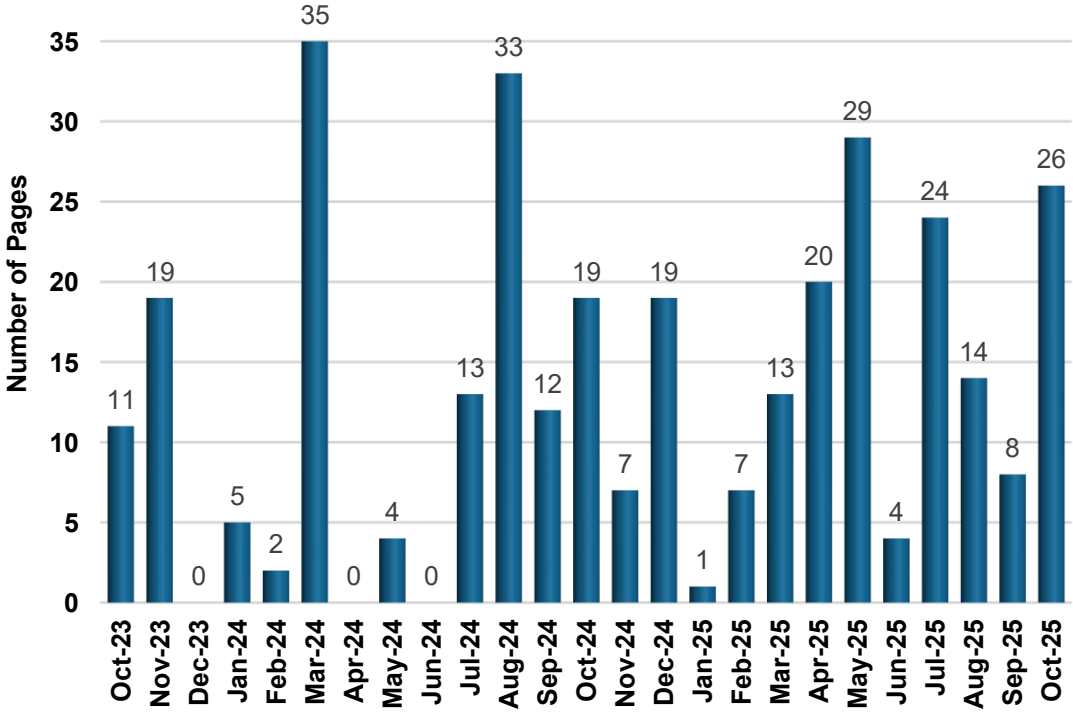
Number of New Subdivisions Recorded per Month



Yearly Totals Subdivisions
2020 – 25
2021 – 33
2022 – 29
2023 – 21
2024 – 18
2025 – 21

Yearly Totals Lots
2021 – 1353
2022 – 3100
2023 – 1212
2024 – 1559
2025 – 1978

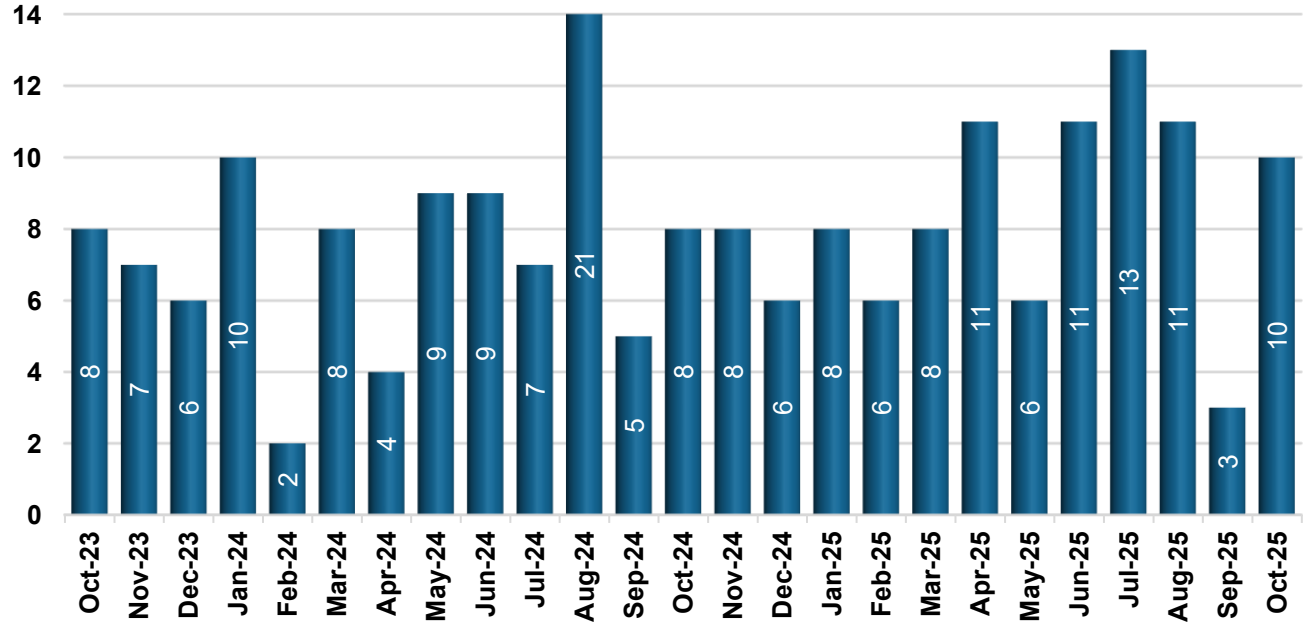
Plat Pages Recorded per Month



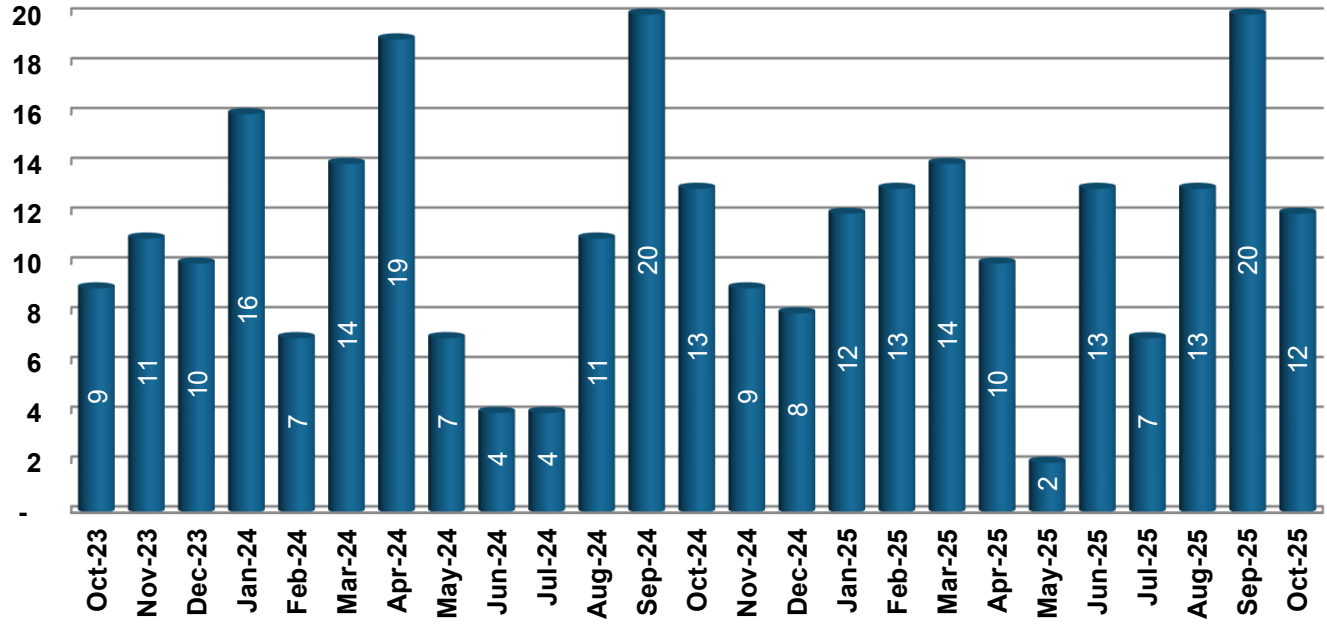
Yearly Totals Pages
2020 – 152
2021 – 188
2022 – 175
2023 – 100
2024 – 154
2025 – 146

Land Development Services Statistics

Monthly Total of Subdivision Applications (PSPA, PSP, PPL, PPLA, ICP, FP, CNST) by Month

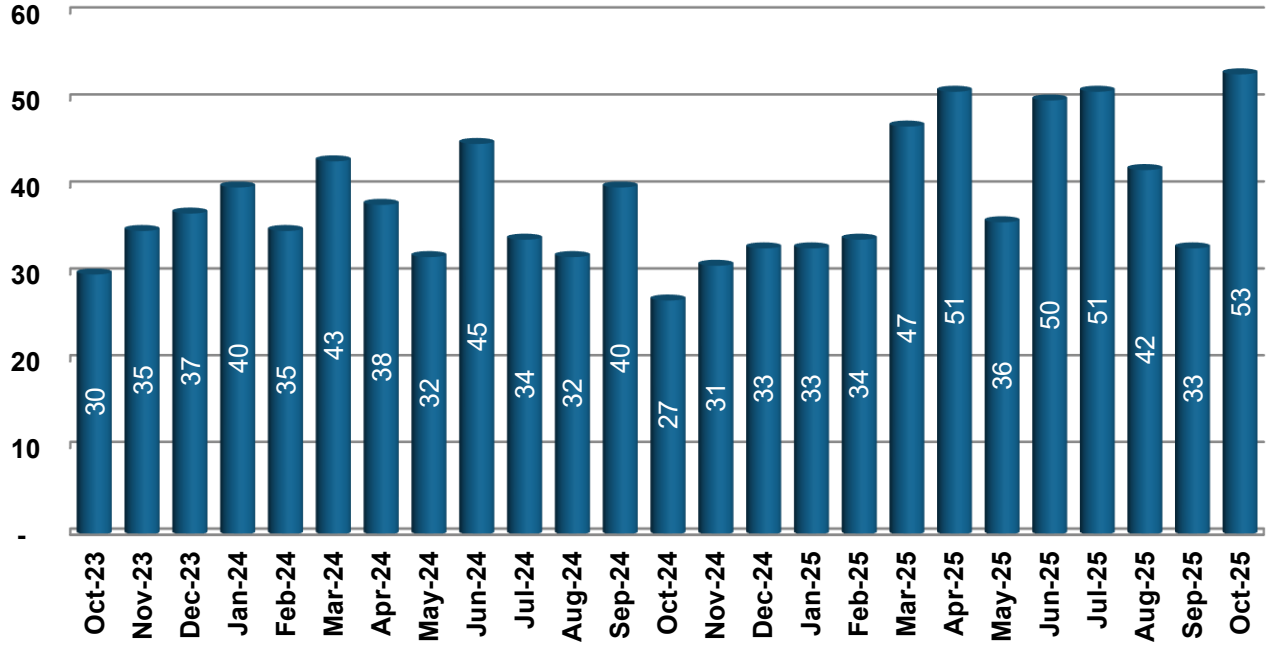


Monthly Total of Subdivision Re-submittals/Corrections (PSPA, PSP, PPL, PPLA, ICP, FP, CNST) by Month

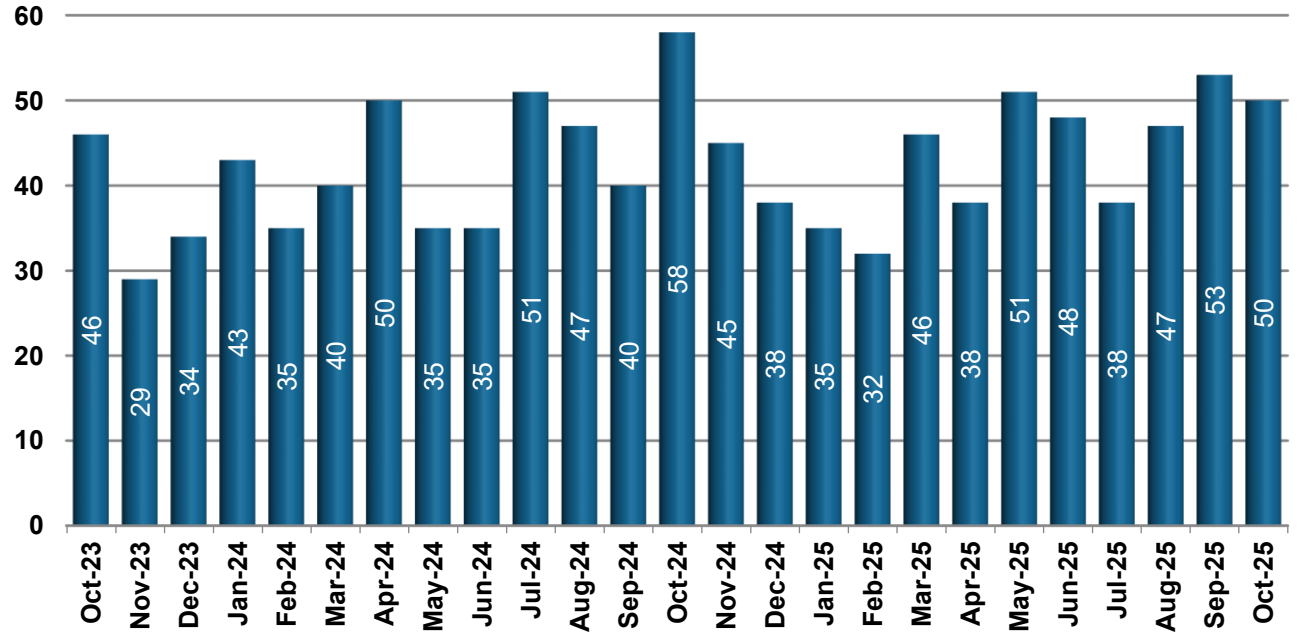


Land Development Services Statistics

Monthly Total of Site Plan Applications (SIP, SIPI, SDP, SDPA, SDPI, NAP) by Month

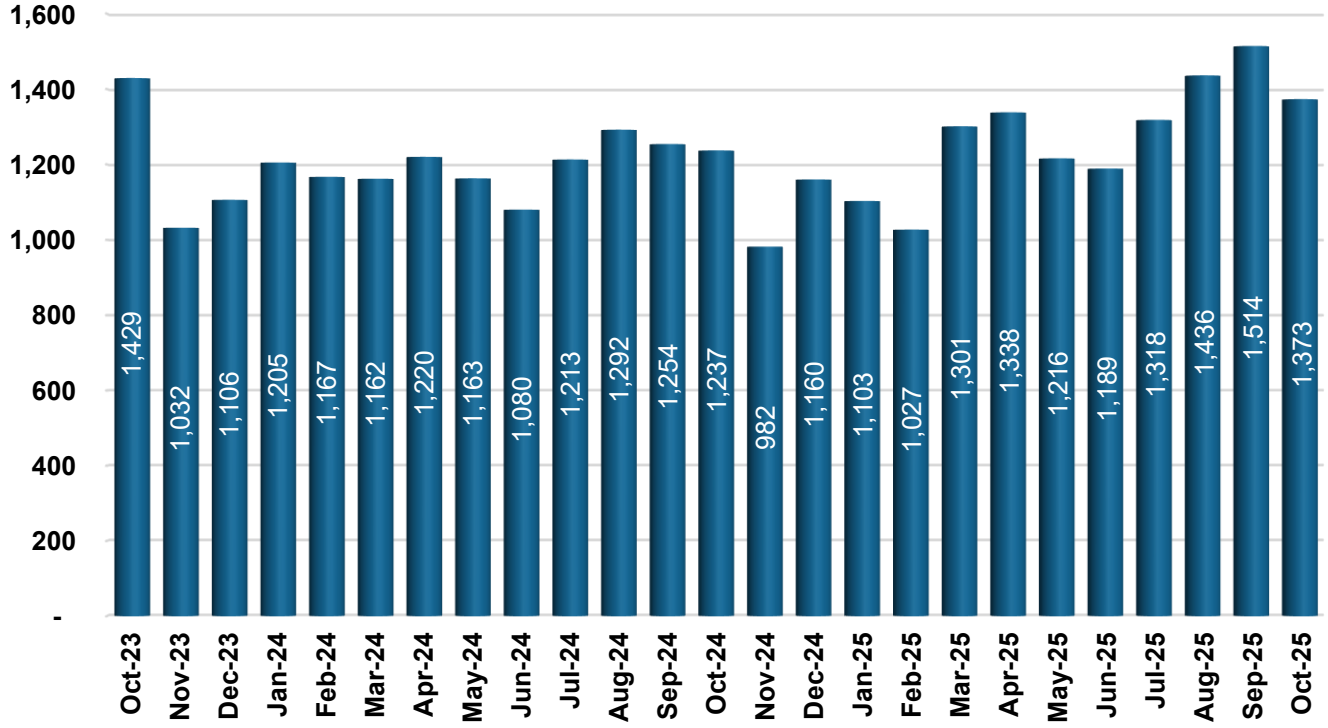


Monthly Total of Site Plan Re-submittals/Corrections (SIP, SIPI, SDP, SDPA, SDPI, NAP) by Month

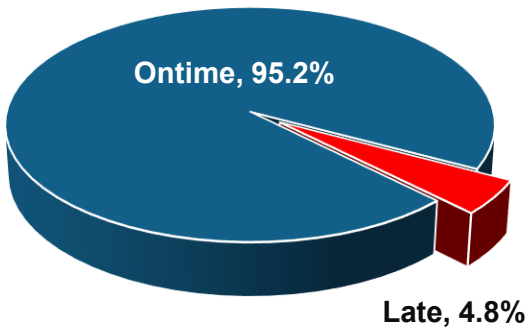


Reviews for Land Development Services

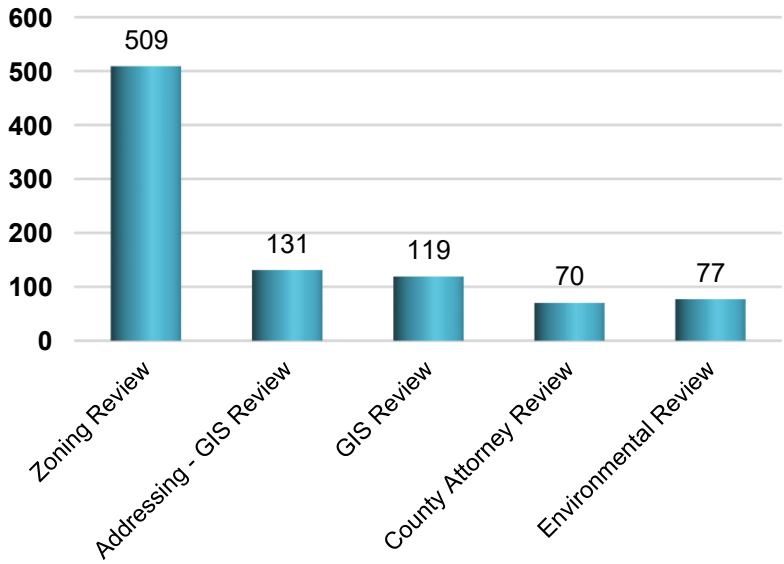
Number of Land Development Reviews



Percent Ontime for the Month

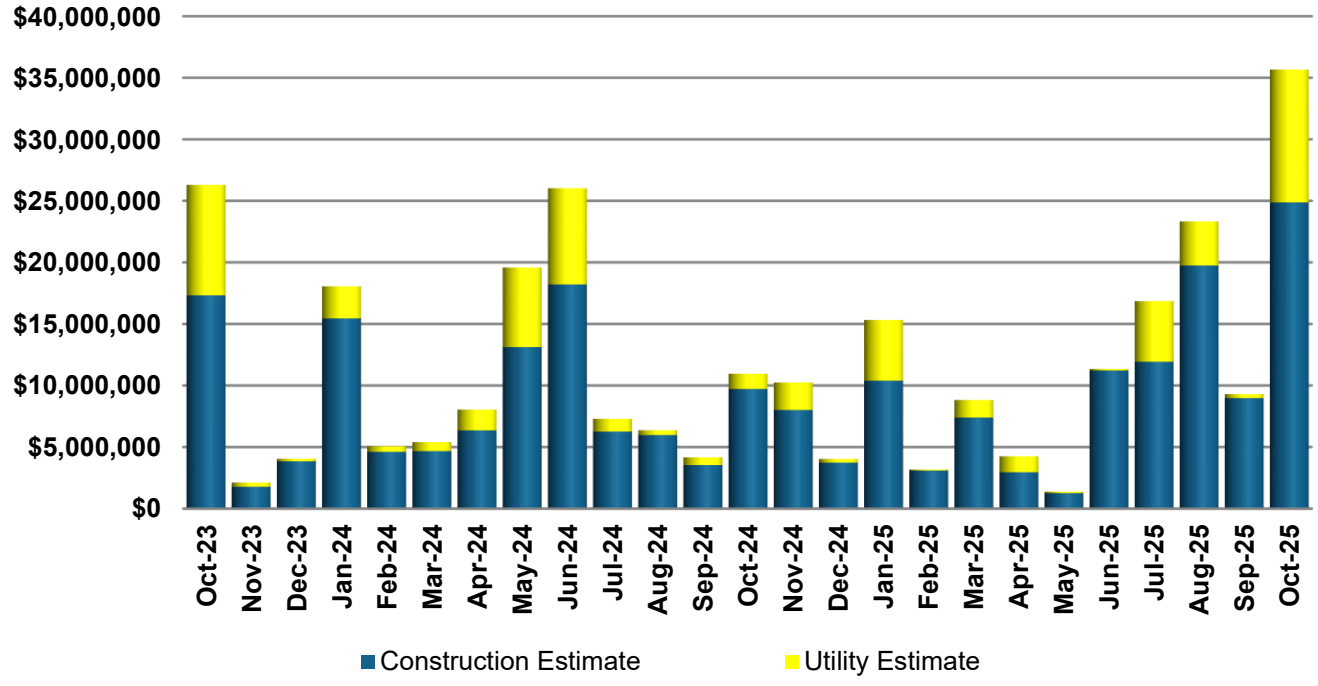


Top 5 Land Development Reviews

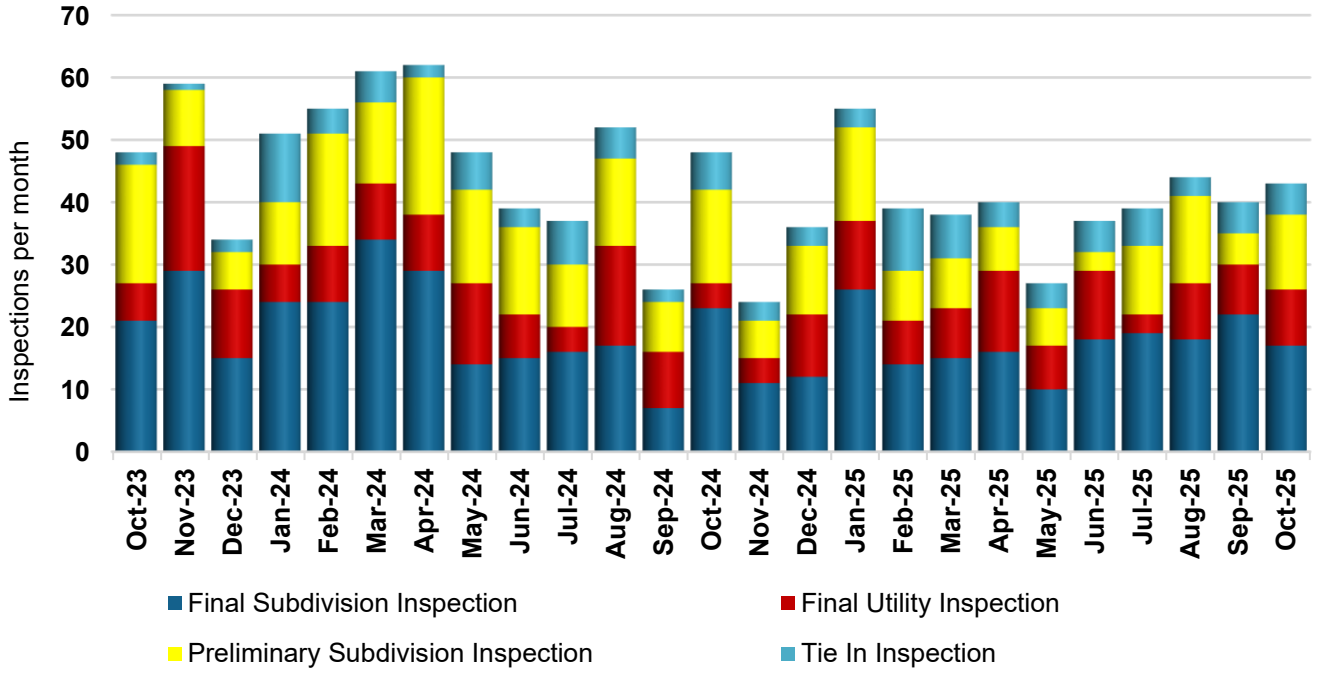


Land Development Services Statistics

Total Applied Construction Valuation Estimate

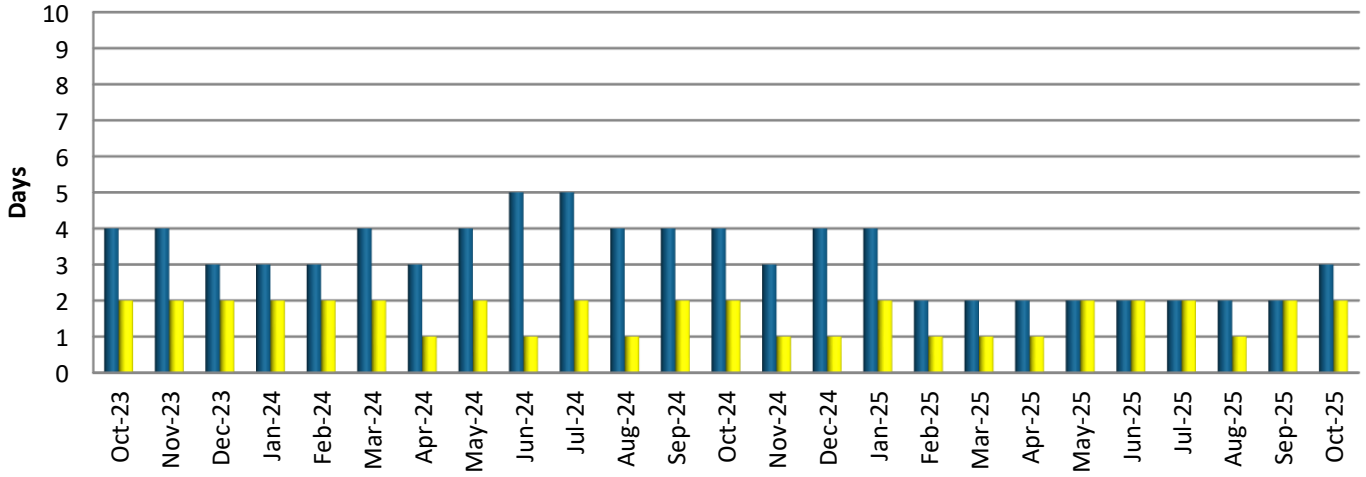


Site & Utility Inspections



Fire Review Statistics

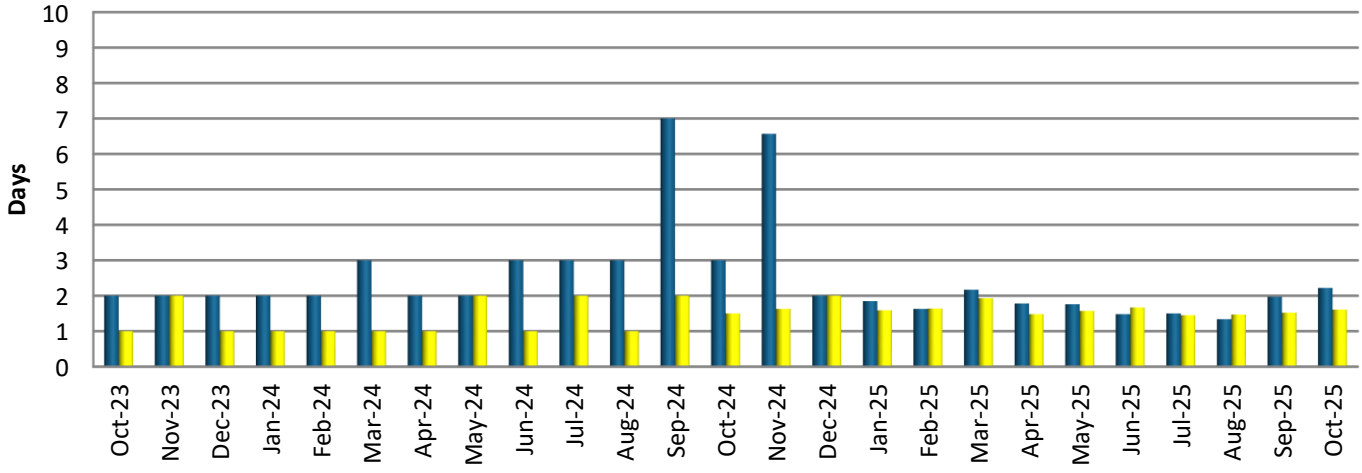
Building Fire Review Average Number of Days



Total Number of Building Fire Reviews by Month

Fire District	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25
North Collier	616	543	411	459	406	508	581	684	634	647	646	733	655	459	481	588	491	621	818	820	771	750	613	755	621
Collier County (Greater Naples)	442	395	403	382	429	425	552	517	511	482	407	464	447	390	432	459	436	484	622	537	547	431	408	549	513

Planning Fire Review Average Number of Days



Total Number of Planning Fire Reviews by Month

Fire District	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25
North Collier	52	48	57	60	57	37	44	40	43	51	51	62	63	47	46	55	65	47	49	79	48	60	44	59	65
Collier County(Greater Naples)	62	50	39	56	53	60	75	61	55	68	67	64	48	64	58	44	95	75	58	116	87	49	70	61	59

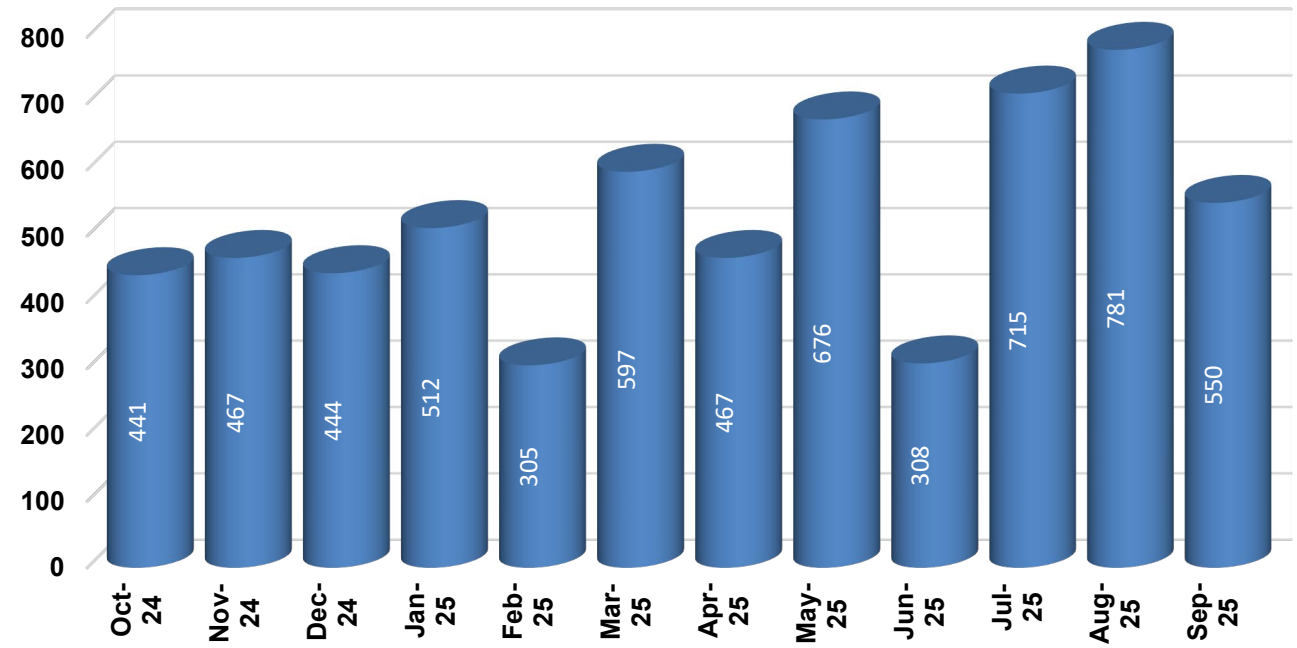
Collier County

October 2025 Code Enforcement Monthly Statistics

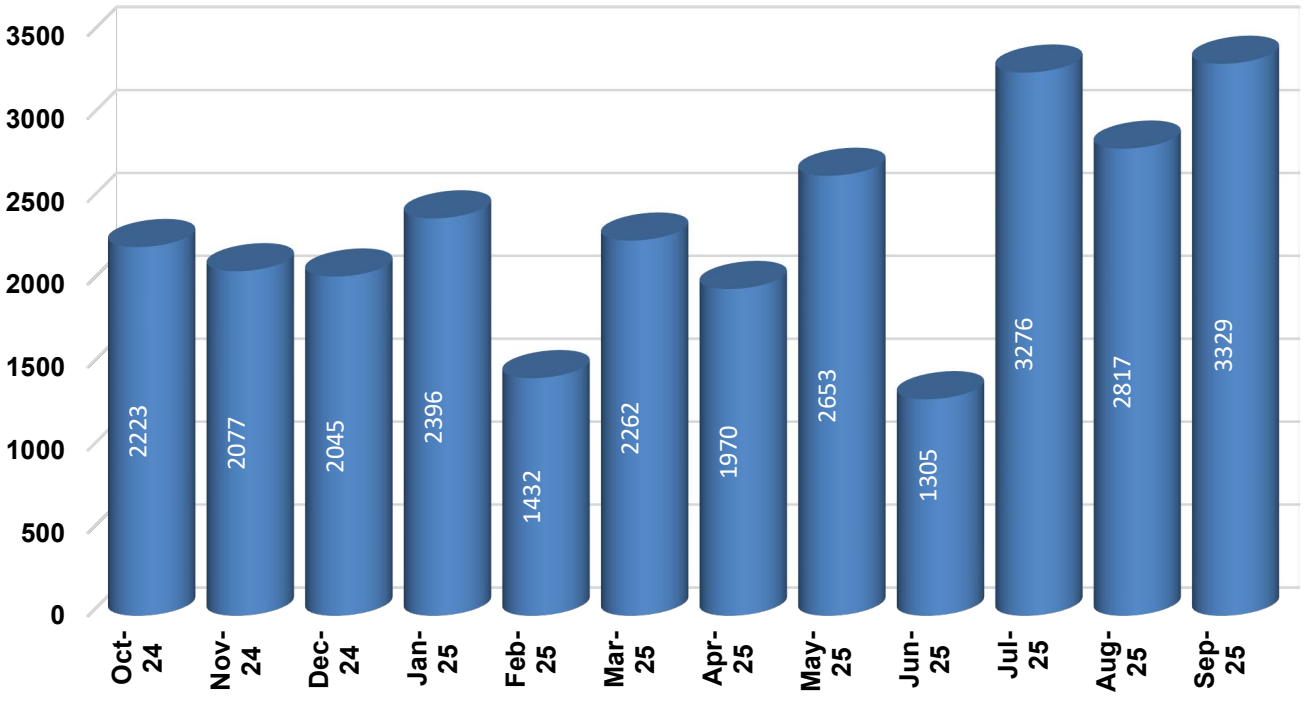


Code Enforcement Reports

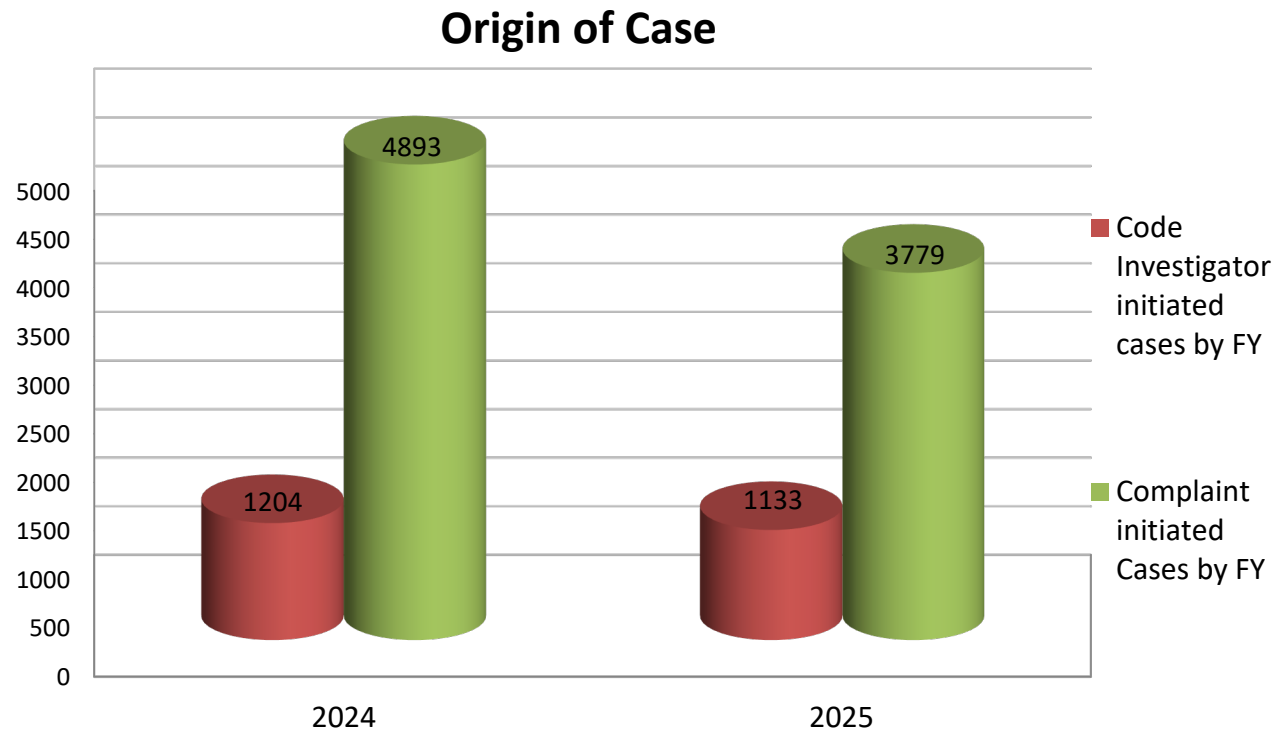
Cases Opened Per Month

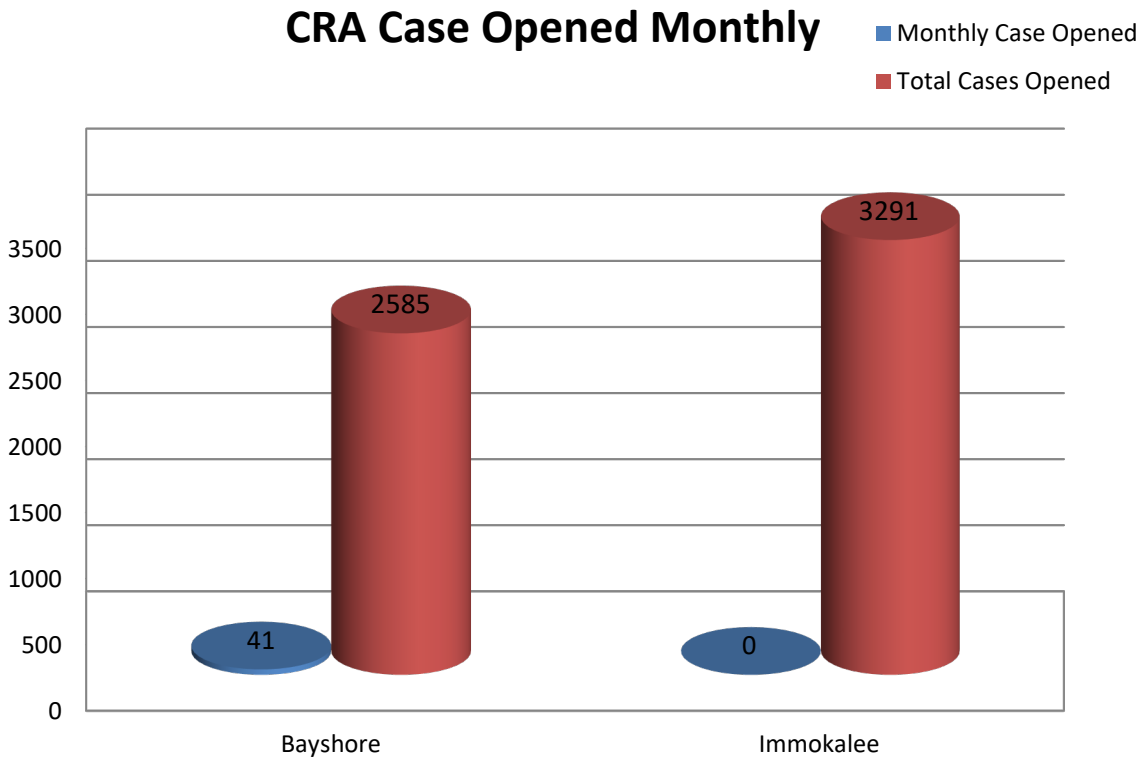


Code Inspections Per Month



Code Enforcement Reports



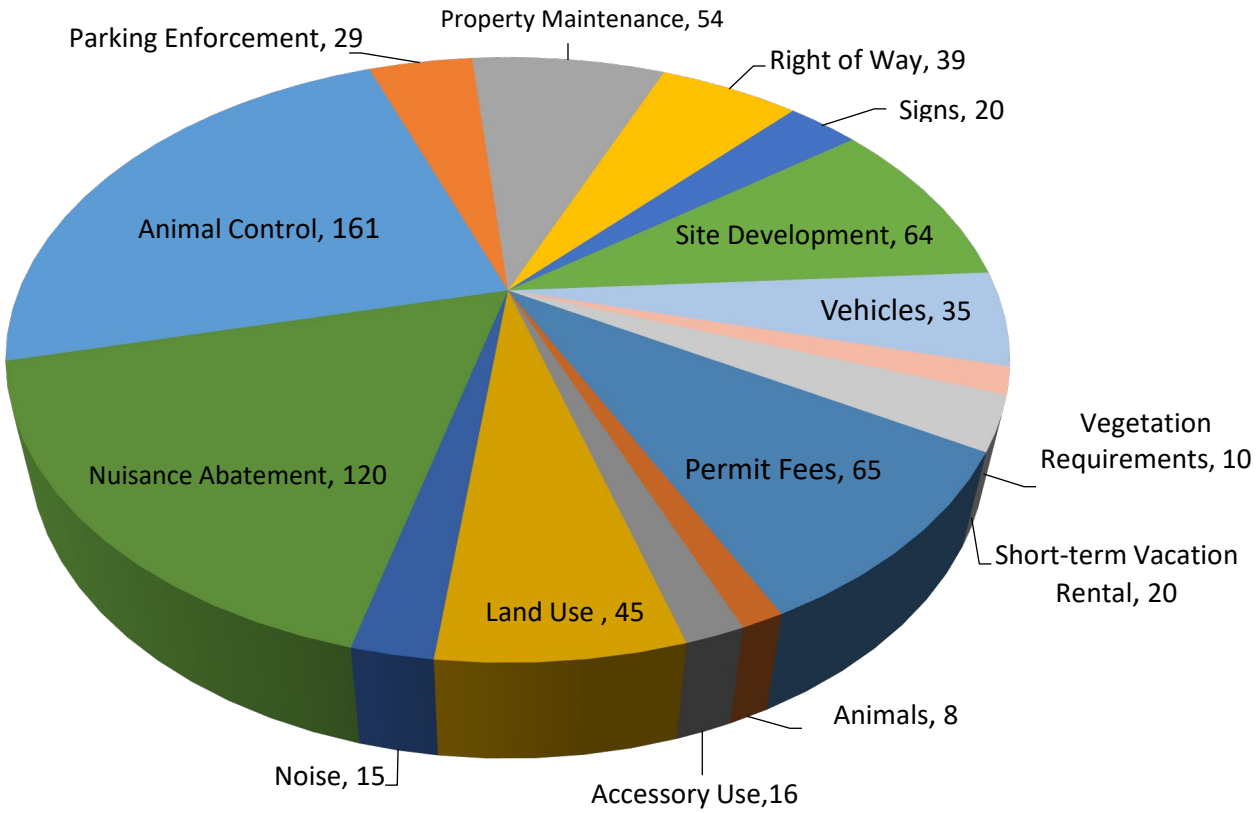


Code Enforcement Reports

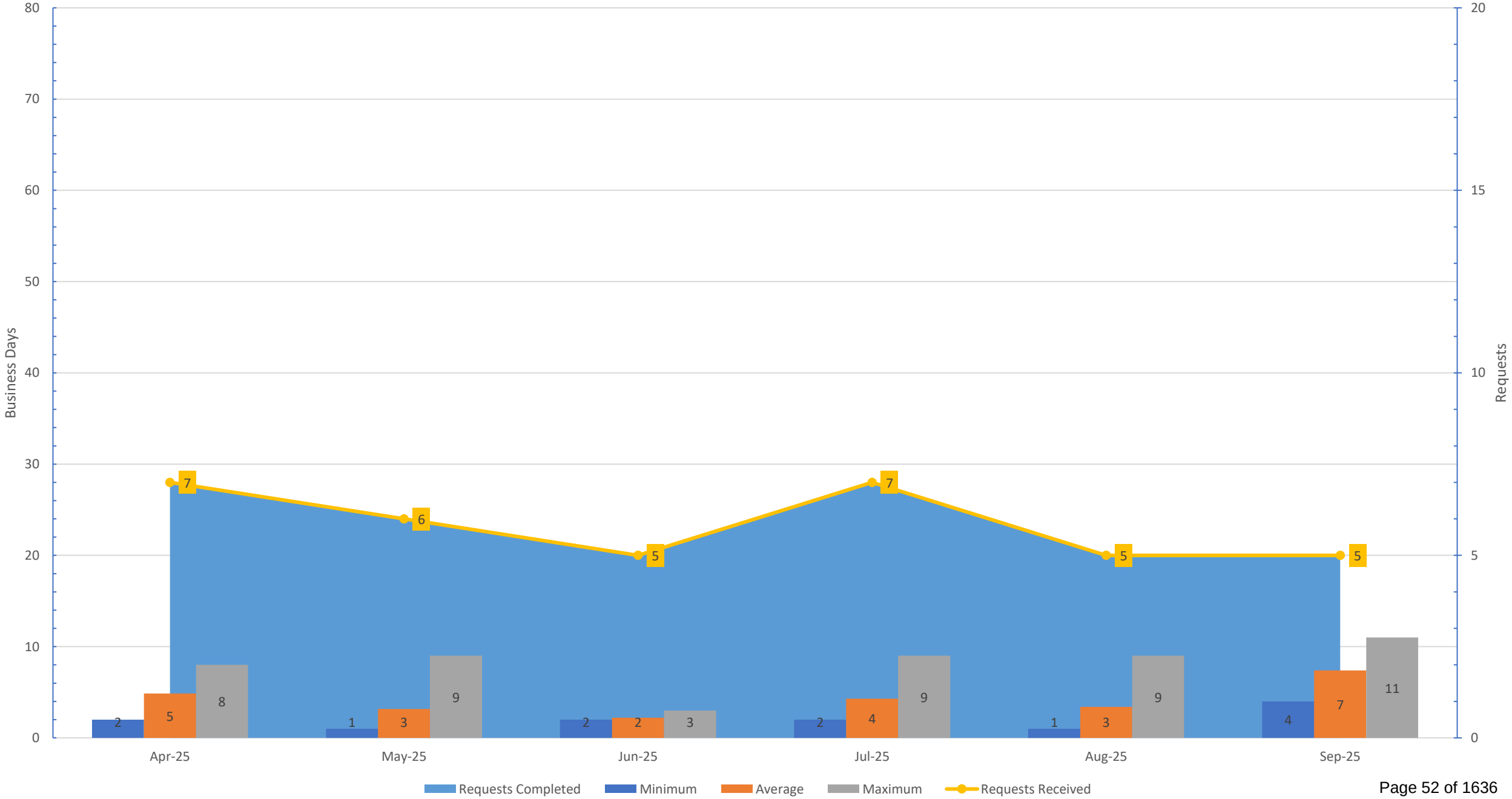
September 22, 2025 – October 21, 2025 Highlights

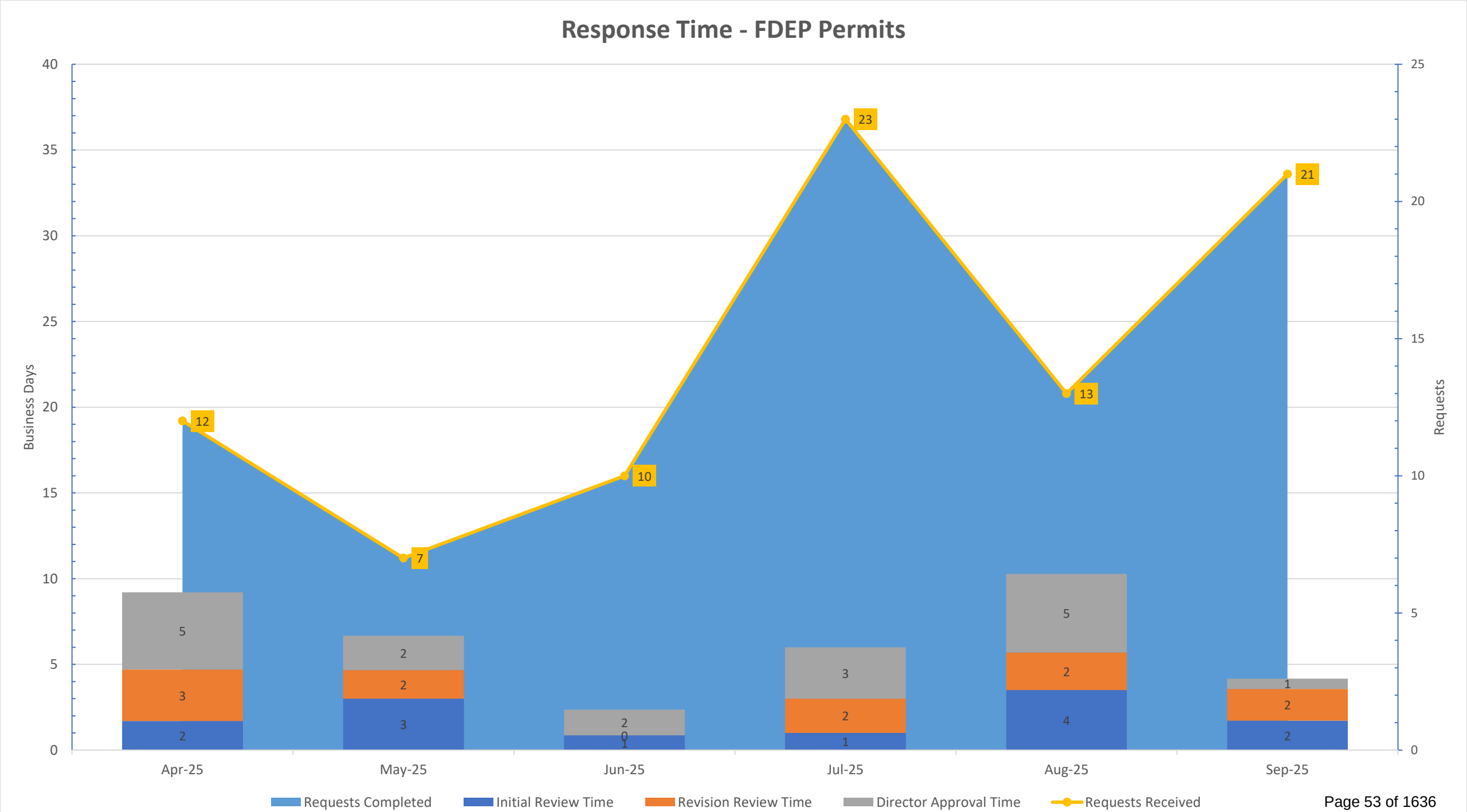
- Cases opened: 550
- Cases closed due to voluntary compliance: 423
- Property inspections: 3329
- Lien searches requested: 833

Top 15 Code Cases by Category



Response Time - Letters of Availability




Response Time - FDEP Permits
Business Days
Requests
40
35
30
25
20
15
10
5
0
25
20
15
10
5
0
12
7
10
23
13
21
5
3
2
2
2
3
2
0
1
3
2
1
5
2
4
1
2
2
Apr-25
May-25
Jun-25
Jul-25
Aug-25
Sep-25
Requests Completed
Initial Review Time
Revision Review Time
Director Approval Time
Requests Received

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DSAC Committee Members

	Member	Category	Term Expires
	William J. Varian - Chair	General Contractor	12/14/2028
	Blair Foley, P.E. - Vice Chair	Civil Engineer	12/14/2027
i.	James Boughton	Architect	12/14/2025
ii.	Clay Brooker	Attorney	12/14/2025
iii.	Jeffrey Curl	Landscape Architect	12/14/2025
	John C. English	Civil Engineer	12/14/2027
	Marco Espinar	Environmental Consultant/Biologist	12/14/2027
	Norman Gentry	General Contractor	12/14/2027
	Nicholas J. Kouloheras	Developer	12/14/2029
	Mark McLean	Architect	12/14/2028
iv.	Chris Mitchell, P.E.	Engineer	12/14/2025
	Robert Mulhere, FAICP	Planner	12/14/2028
	Laura Spurgeon DeJohn	Land Planner	12/14/2027
	Jeremy Sterk	Environmental Consulting	12/14/2028
	Mario Valle	Residential/Commercial Construction	12/14/2027
	Hannah Roberts	AHAC Representative (Non-Voting)	10/01/2026

Terms are 4 years.

Advisory Board Application Form

Collier County Government
3299 Tamiami Trail East, Suite 800
Naples, FL 34112
(239) 252-8400

Application was received on: 10/10/2025 11:04:15 AM

Name: James E. Boughton

Email Address: jeb760@comcast.net

Home Address: 760 Clarendon Ct

City/Zip Code: Naples, 34109

Primary Phone: 239-821-7600

Secondary Phone:

Board or Committee: Development Services Advisory Committee

Category (if Applicable):

Place of Employment? James E. Boughton, Architect

Do you or your employer do business with the County? No

How many years have you lived in Collier County? More than 15

Home many months out of the year do you reside in Collier County? I am a year-round resident

Have you been convicted or found guilty of a criminal offense (any level felony or first degree misdemeanor only)? No

Would you and/or any organizations with which you are affiliated benefit from decisions or recommendations made by this advisory board? No

Are you a registered voter in Collier County? Yes

Do you currently hold an elected office? No

Do you now serve, or have you ever served on a Collier County board or committee? Yes

If yes, please list the boards / committees: Development Services Advisory Committee

Please list your community activities and positions held: Naples North Rotary Elder, Moorings Presbyterian Church

Education: Bachelor of Architecture, 1976 Kent State University

Experience / Background: Bachelor of Architecture, 1976 Kent State University

Advisory Board Application Form

Collier County Government
3299 Tamiami Trail East, Suite 800
Naples, FL 34112
(239) 252-8400

Application was received on: 10/10/2025 03:50:37 PM

Name: Clay Brooker

Email Address: ccbrooker@napleslaw.com

Home Address: 296 Saddlebrook Ln

City/Zip Code: Naples, 34110

Primary Phone: 239-261-9300

Secondary Phone:

Board or Committee: Development Services Advisory Committee

Category (if Applicable): Attorney

Place of Employment? Cheffy Passidomo, P.A.

Do you or your employer do business with the County? Yes

Explain: Law firm/legal services.

How many years have you lived in Collier County? More than 15

Home many months out of the year do you reside in Collier County? I am a year-round resident

Have you been convicted or found guilty of a criminal offense (any level felony or first degree misdemeanor only)? No

Would you and/or any organizations with which you are affiliated benefit from decisions or recommendations made by this advisory board? No

Are you a registered voter in Collier County? Yes

Do you currently hold an elected office? No

Do you now serve, or have you ever served on a Collier County board or committee? Yes

If yes, please list the boards / committees: Development Services Advisory Committee, 2004-present.

Please list your community activities and positions held: Princeton University Club of Southwest Florida Friends of Rookery Bay, Board member Leadership Collier, Class of 2010

Education: Princeton University, BA in Politics 1991 University of Florida College of Law, JD 1994

Experience / Background: Princeton University, BA in Politics 1991 University of Florida College of Law, JD 1994

Advisory Board Application Form

Collier County Government
3299 Tamiami Trail East, Suite 800
Naples, FL 34112
(239) 252-8400

Application was received on: 10/09/2025 01:30:26 PM

Name: Jeffrey Curl

Email Address: ufjeff95@comcast.net

Home Address: 4010 8TH AVE SE

City/Zip Code: NAPLES, 34117

Primary Phone: 239-304-0958

Secondary Phone:

Board or Committee: Development Services Advisory Committee

Category (if Applicable): LANDSCAPE ARCHITECT

Place of Employment? EMERGE DESIGN LLC

Do you or your employer do business with the County? No

How many years have you lived in Collier County? More than 15

Home many months out of the year do you reside in Collier County? I am a year-round resident

Have you been convicted or found guilty of a criminal offense (any level felony or first degree misdemeanor only)? No

Would you and/or any organizations with which you are affiliated benefit from decisions or recommendations made by this advisory board? No

Are you a registered voter in Collier County? Yes

Do you currently hold an elected office? No

Do you now serve, or have you ever served on a Collier County board or committee? Yes

If yes, please list the boards / committees: PRODUCTIVITY COMMITTEE, DSAC, GROWTH MANAGEMENT OVERSIGHT COMMITTEE, GAC LAND TRUST COMMITTEE, CONSERVATION COLLIER

Please list your community activities and positions held: NAPLES ZOO BOD, ROTARY CLUB OF NAPLES-COLLIER

Education: BACHELOR OF SCIENCE, FROM THE UNIVERSITY OF FLORIDA

Experience / Background: BACHELOR OF SCIENCE, FROM THE UNIVERSITY OF FLORIDA

Advisory Board Application Form

Collier County Government
3299 Tamiami Trail East, Suite 800
Naples, FL 34112
(239) 252-8400

Application was received on: 10/09/2025 04:04:19 PM

Name: Christopher Reginald Mitchell

Email Address: cmitchell@jreeng.com

Home Address: 6227 Spanish Oaks Lane

City/Zip Code: Naples, 34119

Primary Phone: 239-405-9148

Secondary Phone: 239-682-2248

Board or Committee: Development Services Advisory Committee

Category (if Applicable): Engineer

Place of Employment? JR Evans Engineering, P.A.

Do you or your employer do business with the County? Yes

Explain: We are on a continuing services contract for engineering, floodplain, and drainage design.

How many years have you lived in Collier County? More than 15

Home many months out of the year do you reside in Collier County? I am a year-round resident

Have you been convicted or found guilty of a criminal offense (any level felony or first degree misdemeanor only)? No

Would you and/or any organizations with which you are affiliated benefit from decisions or recommendations made by this advisory board? Yes

If yes, Please Explain: I am a consulting engineer and DSAC recommendations may be adopted by the BCC and those decisions may benefit the consulting engineering service industry in general.

Are you a registered voter in Collier County? Yes

Do you currently hold an elected office? No

Do you now serve, or have you ever served on a Collier County board or committee? Yes

If yes, please list the boards / committees: Development Services Advisory Committee Several DSAC sub-committees

Please list your community activities and positions held: Leadership Collier Class of 2019 Amber's Antibodies (Charity) Board Member

Education: Master of Science Environmental Engineering - University of Cincinnati - 1997 Bachelor of Science Civil/Environmental Engineering - Purdue University - 1995

Experience / Background: Master of Science Environmental Engineering - University of Cincinnati - 1997 Bachelor of Science Civil/Environmental Engineering - Purdue University - 1995

November 5th, 2025

Mr. William J. Varian, Chair
c/o Heather Yilmaz, Management Analyst I
Development Services Advisory Committee

RE: Sidewalk Payment in Lieu

Bill,

I was contacted by a local engineer regarding the timing of the payment in lieu process during the application process. The following is a synopsis:
I believe "prior to the release of the corresponding development review" refers to release of the project by the reviewer, not the review of a 2nd RAI response. Would simply be "comment remains" in RAI 3rd.
A lot of developers were impacted during the recession, many filing for bankruptcy. The county had collected millions in inspection fees, but there was no money in the till (escrow, etc.) to return, even though the inspections were never initiated. That is why the county stopped collecting those fees up front and deferred them to the final approval (now to the actual preconstruction meeting). That makes sense but it appears Transportation wants their money up front IN CASE YOU HAVE TO PULL THE PLUG!!! Sidewalk contributions do NOT run with the land like inspection fees did during the recession. It is actually a big issue for many, can be 6 digits at $50 per linear foot. If this is an LDC issue and read correctly, it needs to be revised. I cannot believe county wants to be collecting fees ahead of time if they do not intend to refund them should the project be shelved prior to final approval. The LDC language has not changed and we always paid for sidewalks at the end when we know (and the bank knows) we are getting approved.
RAI comment:
Transportation Pathways Review Correction Comment 1: Rev 2 - Please see Payment Slip dated June 30, 2025. " The PIL fee is required to be paid prior to the next submittal ." Rev 1 - 6.06.02 A.1. Provide five foot, 5-ft wide, 6-inch thick sidewalk along the frontage of the property.
LDC except:
1. Provide funds for the cost of sidewalks, bike lanes and pathways constructionprior to the release of the corresponding development review for final subdivision plat, site improvement, or site development plan , except as stipulated within an approved zoning ordinance or resolution as set forth in the Schedule of Development of Review and Building Permit Fees adopted in the Collier County Administrative Code into a Pathway fund or identified CIP project
I am requesting an agenda item to discuss with the engineers, planners, and/or attorney on DSAC. Thank you!

Sincerely,

eMERGE Design LLC
Jeffrey S. Curl ASLA CLARB, President

LAB#: LC26000450 4010 8th Avenue S.E. + Naples, FL 34117 | p.239.272.7933 + f.239.304.9443 | www.emergedesign.biz
ideas + solutions

Good afternoon, Chair, Committee members, and County staff.

I'm Amelia Vasquez with the Collier Building Industry Association.

On behalf of CBIA's members, I want to begin by thanking staff across the Growth Management Department for their professionalism and responsiveness. We recognize how much coordination it takes to manage the volume of applications, process reforms, and system upgrades now underway. Our goal today is simply to reinforce what is already working and to offer suggestions that can strengthen implementation and communication moving forward.

With the new Growth Management and Building Services Fee Schedule, effective January 1, 2026, the first comprehensive update since 2012. We support this investment in staffing and technology and view it as a shared opportunity to improve efficiency.

To help demonstrate that these new revenues are producing results, CBIA recommends that staff publish a quarterly performance dashboard beginning in early 2026.

Tracking key indicators: intake time, first-review days, on-time completion rates, resubmittal cycles, fire-review averages, and staffing vacancies. This will give staff, the industry, and the public a clear way to measure progress and celebrate success. This approach complements the fee schedule and mirrors DSAC's past commitment to data-driven service improvement.

We also appreciate the Transportation Division's responsiveness in addressing recent questions on the Sidewalk Payment-in-Lieu program. A few projects have received review comments requiring payment "prior to the next submittal." Historically, that fee has been interpreted as due prior to release for construction essentially the pre-construction milestone.

To keep interpretations consistent across departments, CBIA respectfully supports DSAC considering a short-term workgroup including Transportation, Growth Management, and industry representatives to review LDC Section 6.06.01.D.4.c and if needed, recommend clarifying language.
The review could confirm that payment occurs at the pre-construction meeting or prior to the first building permit, whichever comes first, and include a refund provision for projects that do not advance to construction.

This kind of collaborative review would build on existing staff efforts, reflect past County practices, and ensure proportionality under Florida Statute 163.3180(6)(h) all while reinforcing our shared goal of consistency, transparency, and fairness in the development process

CBIA commends staff for their work implementing Senate Bill 1080, which established statewide review timelines, five days for receipt, thirty for completeness, and one-hundred-twenty or one-hundred-eighty days for approval. To reinforce compliance and transparency, we suggest that DSAC request development of a public SB 1080 Dashboard showing active applications against those statutory clocks and summarizing any refunds issued under F.S. 125.022(6).

Such a tool would highlight Collier County's continued commitment to transparency, assist staff in managing workloads more efficiently, and provide applicants with helpful visibility into their project's progress. It's intended as a resource to support efficiency, not as an audit.

Additionally, several members have reported ongoing issues following the recent CityView update plans not routing to reviewers, blank or distorted civil sheets, and lost time in approvals. We know staff are working hard to resolve these technical problems, and we appreciate those efforts.

On behalf of our 550 CBIA members, I respectfully ask that CBIA be kept informed of any known portal disruptions or fixes so we can help communicate accurate updates to the industry.

It may also help if a brief notice or banner were added to the CityView portal whenever issues are active to help users know the problem is recognized and being addressed.

In closing, CBIA thanks this Committee and County staff for their ongoing commitment to professionalism and partnership. We share the same objectives: efficient processes, clear communication, and predictable outcomes for everyone building and residing in Collier County.

Today, we respectfully suggest that DSAC:

1. Establish the PIL clarification workgroup,
2. Encourage staff to develop the SB 1080 public dashboard, and
3. Support quarterly performance reporting as the 2026 fee schedule takes effect.
4. CBIA be continuously notified.

Thank you for your partnership and continued collaboration.

CBIA stands ready to assist however we can.

Thank you for your time and for the opportunity to remain an active partner in Collier County's continued progress.

Amelia Vasquez,
CBIA Executive Officer

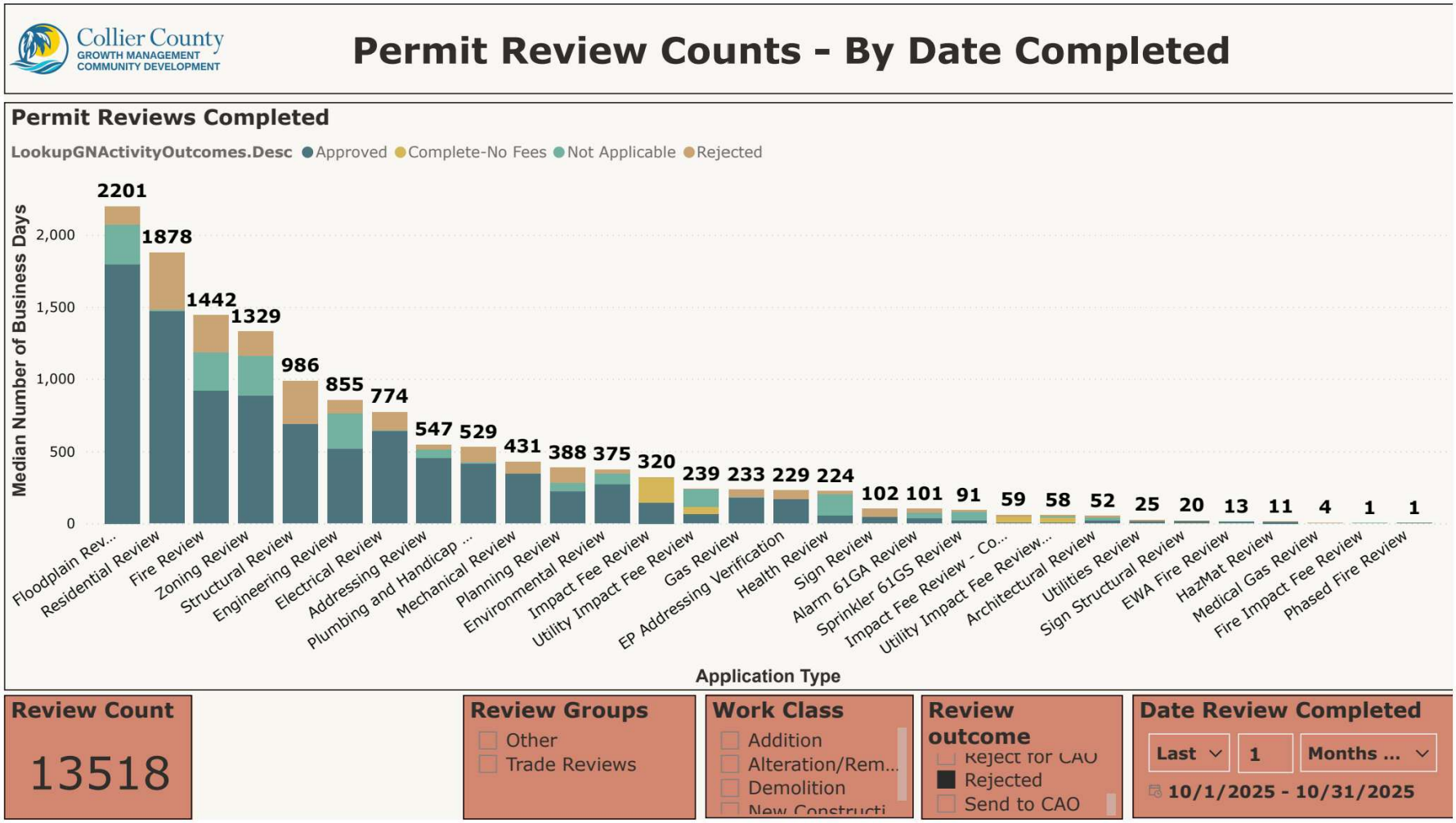
Collier County
GROWTH MANAGEMENT
COMMUNITY DEVELOPMENT

Update on Building Review Timelines and Reporting

The reports about to be shown are a work in progress. The totals will not match the regular DSAC report numbers and have accuracy issues in some places.

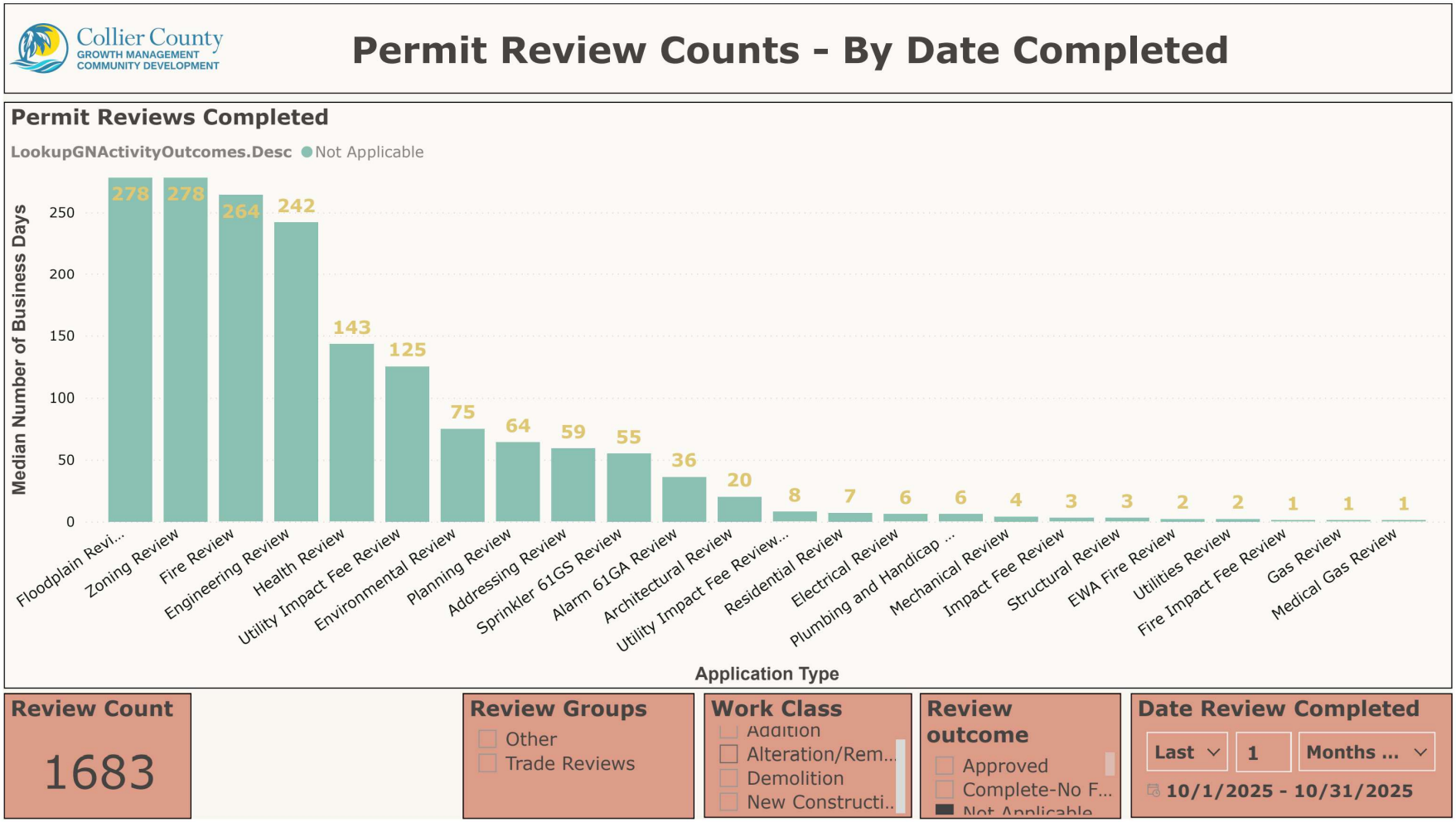
Data Filters Used in these reports:

- Excludes Application Types ROW, Well, Master Building, Master Pool, Fire and any permit missing an application type.
- Excludes permits in a status of Abandoned, Cancelled, Cancelled Pending Fees, Denied, Entered in Error, Expired, Historical, Revoked, Stop Work, Void and Withdrawn.
- Excludes permits that were converted from CDPLUS.
- Only includes activities from when the Plan Review Process starts to Permit Issuance.
- Excludes Private Provider Reviews.



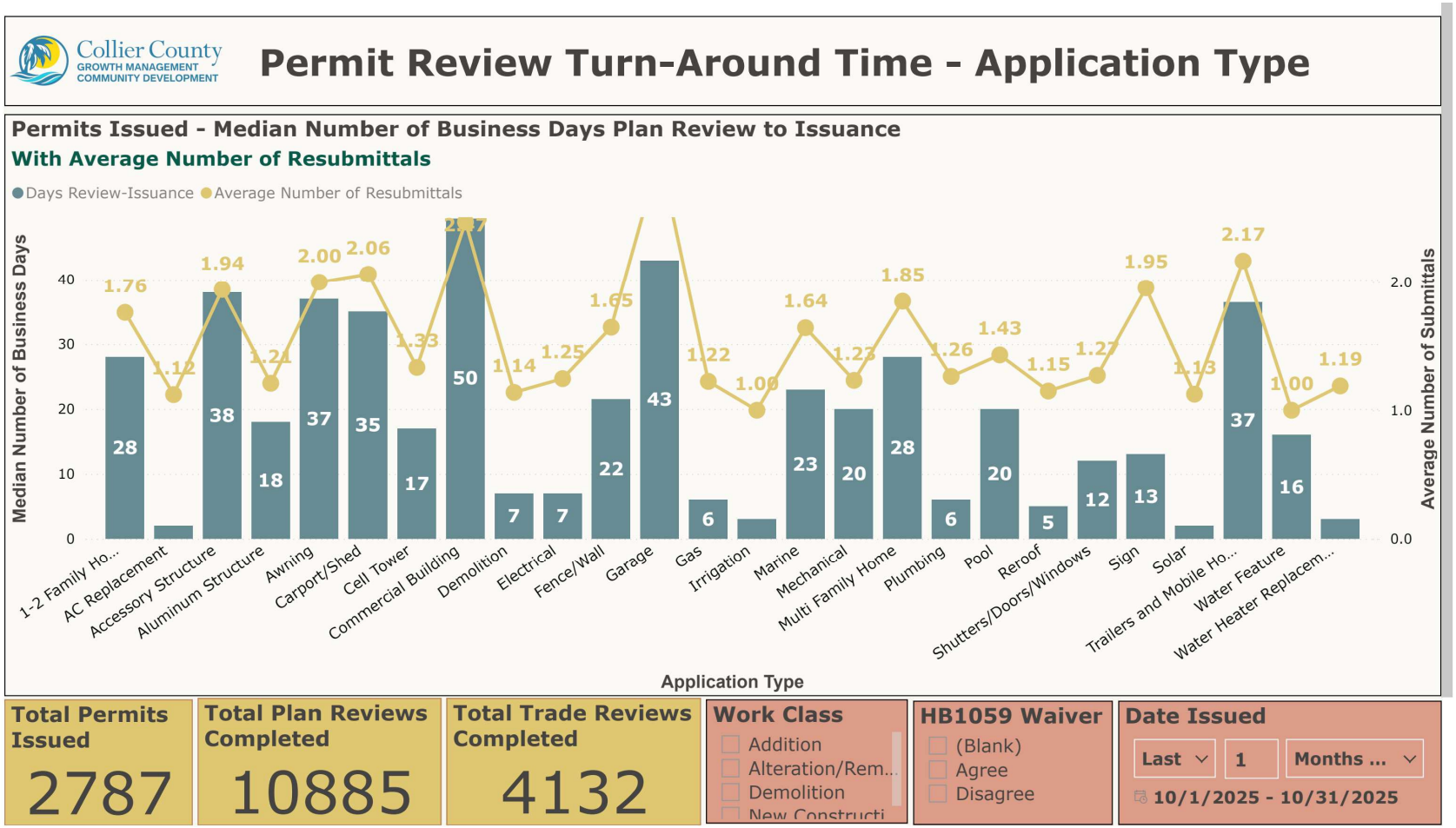
Notes:

- These reviews had an outcome of Approved, Rejected, Not Required, and Complete – No Fees.



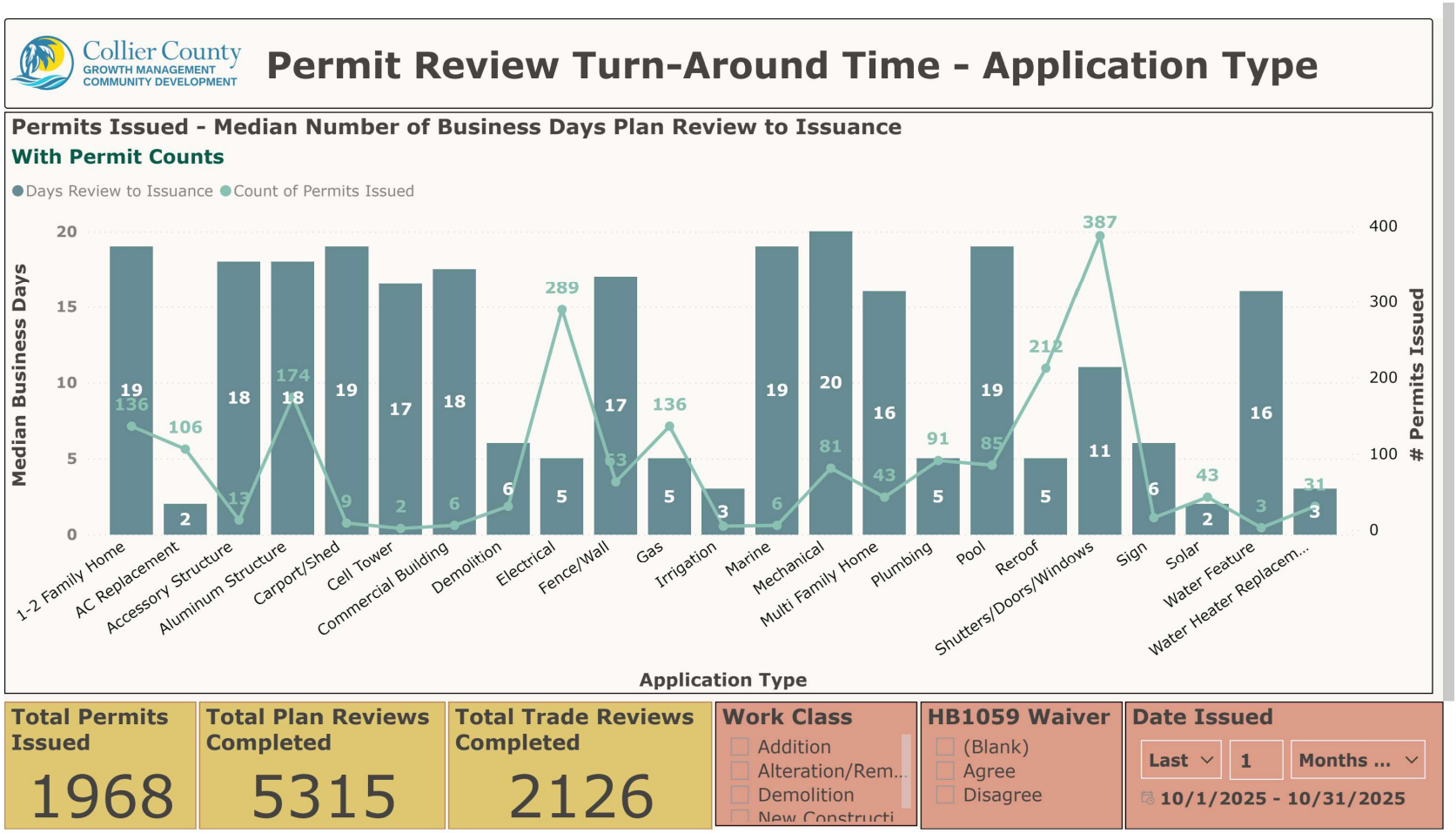
Notes:

- These are just reviews that had an outcome of Not Applicable.
- We are currently working with CityView and GIS to introduce programming that will automatically not load a Floodplain Review if the property has a Letter of Map Amendment (LOMA) which excludes it from requiring a Floodplain Review. This should go live sometime in December.



Notes:

- These permits were issued in October, but could have had 0,1, or more resubmittals. The total number of business days is counting all the time that the permit spent Under Review for the application that was the Median in the dataset.
- The yellow line represents the average number resubmittals for that Application type.



Notes:

- These permits had 1 or less corrections before being issued.
- The teal line represents the number of permits issued for each application type.

Next Steps:

1. Improve the data accuracy of the reports that have already been created.
2. Develop another report focused only on permits that had no corrections.
3. Develop another report focused only on looking at individual reviews and if they are meeting the date required deadline.
4. Develop another report focused only on the time applications spend between Pending and Application Acceptance.
5. Use the new and existing reports to further dive into the causes of incomplete applications and rejections at plan review to find ways to further reduce the time between application submittal and permit issuance.

Attendance Roster – Date: November 05, 2025

Development Services Advisory Committee

Must have (8) members for a quorum

Committee Members	
James Boughton:	Norman Gentry:
Clay Brooker: EXCUSED	Mark McLean: EXCUSED
Jeffrey Curl:	Chris Mitchell:
Laura Spurgeon DeJohn:	Robert Mulhere: EXCUSED
Nicholas Kouloheras:	Jeremy Sterk:
John English:	Mario Valle:
Marco Espinar:	William Varian:
Blair Foley:	Hannah Roberts:

Attendance Roster – Date: November 05, 2025

Development Services Advisory Committee

Staff Members

James French Department Head, GMCDD	Present
Michael Bosi Director, Planning & Zoning	Present
Christopher Mason Director, Community Planning & Resiliency	Present
Cormac Giblin Director, Housing Policy and Economic Development	Present
Jaime Cook Director, Development Review	Present
Michael Stark Director, Operation & Regulatory Support	Present
John McCormick Director, Building Review & Permitting	ROBERT MOORE
Thomas Iandirmarino Director, Code Enforcement	Present
Matt McLean or designee Director, Public Utilities	Claudia Vargas
Jay Ahmad or designee ***Matt Thomas, Manager Director, Transportation Engineering	MICHAEL SAGLIER, TRANS. PLANNER
Diane Lynch, Management Analyst II Staff Liaison, Operations & Regulatory Management	Not Present
Heather Cartwright-Yilmaz, Management Analyst Staff Liaison, Operations & Regulatory Management	Present

Other County Staff Presenting NOT listed above.

Name	Signature

Attendance Roster – Date: November 05, 2025

Development Services Advisory Committee

Public Sign-in Sheet

Please Print

NAME	REPRESENTING	PHONE NO.
Amelia Vasquez	CBIA	(239) 436-6100

Collier County
GROWTH MANAGEMENT
COMMUNITY DEVELOPMENT

PLEASE PRINT CLEARLY

Agenda Item No.: 6

Meeting Date: 11/05/25

Agenda Item Topic: (For Public Comment, list topic) Fee implementation, sidewalk payment-in-lieu (PIL) Senate Bill 1080, city/area update

Name: Amelia Vasquez

Address: 3200 Bailey Lane, #110, Naples, FL 34105

Representing/Petitioner: CBIA

Other:

COLLIER COUNTY ORDINANCE NO. 2003-53, AS AMENDED BY ORDINANCE 2004-05 AND 2007-24, REQUIRES THAT ALL LOBBYISTS SHALL, BEFORE ENGAGING IN ANY LOBBYING ACTIVITIES (INCLUDING, BUT NOT LIMITED TO, ADDRESSING THE BOARD OF COUNTY COMMISSIONERS), REGISTER WITH THE CLERK TO THE BOARD AT THE BOARD MINUTES AND RECORDS DEPARTMENT.

YOU ARE LIMITED TO THREE (3) MINUTES FOR YOUR COMMENTS AND ARE TO ADDRESS ONLY THE CHAIR.

PUBLIC COMMENT IS NOT INTENDED TO BE A FORUM FOR SELF-PROMOTION. PUBLIC COMMENT SPEAKERS WHO ENGAGE IN ADVERTISING THEIR BUSINESS, PERSONAL POLITICKING, OR OTHER FORMS OF SELF-PROMOTION, WILL BE ASKED TO LEAVE THE PODIUM.

PLEASE GIVE THE COMPLETED FORM TO THE STAFF LIAISON.

MINUTES OF THE COLLIER COUNTY
DEVELOPMENT SERVICES ADVISORY COMMITTEE MEETING

Naples, Florida
November 5, 2025

LET IT BE REMEMBERED, the Collier County Development Services Advisory Committee and Collier County, having conducted business herein, met on this date at 3:00 PM in REGULAR SESSION at the Collier County Growth Management Community Department Building, Conference Room #609/610, 2800 N. Horseshoe Dr., Naples, Florida, 34102 with the following members present:

Chairman:	William J. Varian
Vice Chairman:	Blair Foley
	James Boughton
	Clay Brooker- Excused
	Jeffrey Curl
	Laura Spurgeon DeJohn
	John English
	Marco Espinar
	Norm Gentry
	Nicholas Kouloheras
	Mark McLean-Excused
	Chris Mitchell
	Robert Mulhere- Excused
	Hannah Roberts – AHAC (Non-voting)
	Jeremy Sterk
	Mario Valle

The following County staff were in attendance
James French, Department Head, GMCD
Mike Bosi, Director – Zoning, GMCD
Christopher Mason – Community Planning & Resiliency, GMCD
Cormac Giblin, Director – Housing Policy & Economic Development, GMCD
Jaime Cook, Director, Development Review, GMCD
Michael Stark, Director, Operations & Regulatory Management, GMCD
Robert Moore, Manager, GMCD Designee for Building Review & Permitting Division, GMCD
Captain Michael Cruz, Collier County Fire Review
Captain Bryan Horbal, North Collier Fire Review - EXCUSED
Thomas Iandimarino, Director, Code Enforcement, GMCD
Claudia Vargas, Project Manager I, Public Utilities Engineering & Project Management, PUD
Michael Sawyer, Project Manager II, Transportation Planning, Transportation Engineering Division
Jason Badge, Supervisor-Project Management, Operations & Regulatory, GMCD
Heather Cartwright-Yilmaz, Management Analyst / Staff Liaison, GMCD

Public Speaker: Amelia Vasquez, CBIA

Any person who decides to appeal a decision of This Board you will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based, neither Collier County nor This Board shall be responsible for providing this record.

1. **CALL TO ORDER– Chairman**
   William Varian
   Development Service Advisory Committee, Wednesday, November 3rd, 2025, was called to order at 3:00 PM.

2. **APPROVAL OF AGENDA**
   Motion to approve- Jeff Curl
   Motion Seconded- James Burton
   Motion passed unanimously

3. **APPROVAL OF MINUTES**
   a. **DSAC 10.1.25**
   Motion to approve- Jeff Curl
   Motion Seconded- Blair Foley
   Motion passed unanimously

4. **PUBLIC SPEAKERS**
   Public Speaker: Amelia Vasquez, CBIA
   - Our goal today is to reinforce what is already working and to offer suggestions that can strengthen implementation and communication moving forward.
   - CBIA recommends that staff publish a quarterly performance dashboard beginning in early 2026.
   - Tracking key indicators; intake time, first review days, on time completion rates, submittal cycles, fire review averages, and staffing vacancies.
   - CBIA respectfully supports DSAC considering a short-term workgroup including Transportation, Growth Management, and industry representatives to review LDC Section 6.06.01.D.4.c and if needed, recommend clarifying language.
   - Several members reported ongoing issues following the recent CityView update, plans not routing to reviewers, blank or distorted civil sheets and lost time in approvals. CBIA asks that they be informed of any known portal disruptions or fixes so we can help communicate accurate updates to the industry.

5. **STAFF ANNOUNCEMENTS**
   a. **Zoning Division – [Mike Bosi, Director]**
      - Close to filling all vacant positions
      - BOCC has been requesting more affordable units at 30/50/60 of AMI for additional density.
      - Last board meeting- Board approved 28 New affordable units to be built off 951.

b. Community Planning & Resiliency Division – [Christopher Mason, Director]

- Working on electronic submittal for elevation certificates. Applicants will enter all details into an electronic application and system will create a digital elevation certificate that can be submitted/printed out.

c. Housing Policy & Economic Development – [Cormac Giblin, Director]

- Last board meeting 28 affordable units approved. 15% at 80% of median, 15% at 100% of median.
- Next board meeting- 78 affordable units will be reviewed for approval. McDowell Project. 100% affordable off Santa Barbara Boulevard.
- December/January- Several affordable home ownership developments will be submitted for board approval.
- Economic Development- 10 retention visits to local business per month to see what we need to do in the future to retain businesses in Collier County. Cost of labor and housing were main concerns.

Nicholas Kouloheras- Any interest in allowing developers to go up to 120% of AMI
Cormac Giblin- The interest of the board is to go the other way with AMI. When you get over 100% AMI the allowable rent is very close to market rents. The board doesn't see the value in offering a public benefit for something you find down the street for the same rent.

d. Development Review Division – [Jaime Cook, Director, Development Review]

- Mark Briggs is taking over Joe Bianci's responsibilities.
- We have 3 Senior Inspector vacancies. We have 2 candidates working through HR**.**
- We are working to fill Jack McKennas position. He is retiring at the end of the year.

e. Operations Support & Regulatory Management Division – [Michael Stark, Director]

- Business center had 1,194 customers. 6,500 calls with 247 dropped. Processed 4,112 permit applications, 20 Hurricane Ian, 21 Hurricane Milton. Scheduled 41 pre application meetings.
- HR- 65 positions in various stages of the hiring process. 10 positions posted, 14 selected pending approval and 4 directly with HR**.**

Jason Badge- Supervisor Project Management
Reviewed slides- Update on Building Review Timelines and Reporting**.**

- Total of 13,518 permit reviews were completed in the month of October 2025.
- Total of 2,787 permits issued
- Total of 10,885 plan reviews completed.
- Total of 4,132 Trade reviews were completed.

Next Steps:

- Develop report focused only on permits that had no corrections.

- Develop a report looking at individual reviews and if they meet the required deadline.
- Develop a report focused on the time applications spend between pending and application acceptance.
- Use the reports to look into the causes of incomplete applications and rejections at plan review to find ways to reduce the time between application submittal and permit issuance.

Nick Kouloheras- The clock starts on the date someone goes into the system and grabs the application for review, correct?
Jason Badge- There are two different clocks. There is the time we have to do the application intake which is 5 business days. We review the application to make sure it is complete to submit it for plan review. The second part is we consider it accepted for plan review once you pay the fees.
William Varian- Once the review is complete. Do you have a report to show how long on average final typing takes.
Jason Badge- We are looking into reports for how much time it takes in each step of the process.
Blair Foley- Are you going to prepare something similar for the engineering and planning side?
Jason Badge- Yes, we can add this once the blueprint is final.
Nick Houloheras- This is great to bring back once a quarter/annually to see the results of the intended increase and see the return on investment.
William Varian- Will this be part of our packet in the future.
Jason Badge- Yes, once this is final it will be.

f. Collier County Fire Review – [Michael Cruz, Captain]

- Interviews are completed for Water Technician.
- Inspector positions- Interviews begin shortly.
- North Collier/Greater Naples- Will be attending Career Fair with CCPS

William Varian- Looking for an opportunity to see the status of fire permits on your system.
Mike Cruz- We are still working out issues with our software EPR. We are not ready for contractors to access yet. I would rather you call me directly and ask for an update.

g. North Collier Fire Review – [Bryan Horbel, Captain]

- No updates-Excused

h. Code Enforcement Division – [Thomas Iandimarino, Director]

- 7 Offers have gone out for Enforcement officers, all Collier County residents**.**

i. Public Utilities Department – [Claudia Vargas, Project Manager]

- No updates

j. Transportation Management Services [**Michael Sawyer, Project Manager II**]

- Public meeting this month- Golden Gate Parkway Corridor Congestion study- November 20th, 2025, at the Golden Gate Community Center 5-6:30pm.

- FDOT meeting- Livingston- FPL corridor Trail extension. November 18th, 2025, 5-7:00PM North Collier Regional Park. 12ft multiuse pathway extensions.
- FDOT meeting- Old 41 Corridor- November 20th, 2025, 5-6:00pm. Bonita Springs Recreation center. Widening 4 lanes. PDNE Study.
- AUIR Planning commission tomorrow. Scheduled for the BCC on December 9th, 2025.
- MPO- LR2050LRTP Adoption will be at December 12th meeting.

k. Building Review & Permitting Division – [Robert Moore, Plans Review and Inspections Manager]

- 425 permits in the queue for residential. 3 weeks on review.
- 384 permits in the queue for commercial. 3 weeks on review.
- Plumbing- 120 in the queue. 3 weeks on review.
- Electrical- 1 week out on review.
- New Structural Plan reviewer starting next week. Leaves 5 open positions. 2 commercial, 4 residential. New hire will be residential. 1 open mechanical and 1 plumbing open.
- Inspections- 800 per day. Next day. We have 3 new structural inspectors. 2 open positions for structural, 1 open mechanical inspector and 1 for plumbing.
- Revisions- Cleaning up process for review time and forwarding to unnecessary departments for revisions**.**

6. NEW BUSINESS

a. DSAC Vacancies: Review and Vote

i. James Boughton Category: Architect
Motion to approve- Blair Foley
Motion seconded- Jeff Curl
Motion passed unanimously- James Boughton- abstained

ii. Clay Brooker Category: Attorney
Motion to approve- Blair Foley
Motion seconded- Jeff Curl
Motion passed unanimously

iii. Jeffrey Curl Category: Landscape Architect
Motion to approve- Blair Foley
Motion seconded- Norman Gentry
Motion passed unanimously- Jeffrey Curl-abstained

iv. Chris Mitchell, P.E. Category: Engineer
Motion to approve- Blair Foley
Motion seconded- Norman Gentry
Motion passed unanimously- Chris Mitchell-abstained

b. Sidewalk payment in Lieu (PIL)- Jeffrey Curl Request

- Tied to planning review
- Question is why we are paying in advance and not during construction

Jaime Cook- The LDC says- Any payment in Lieu has to be paid prior to the release of the site development plan, subdivision plat and/or SIP. That is why it's paid before the approval.
Jeffrey Curl- So if there was an appetite to change that LDC language it would come through our committee for review, correct?
Jaime Cook- In looking at the existing language in the LDC, it says prior to the release of the application. We are releasing it at your Precon. I don't think the Code needs to be changed; it's more of a policy issue. The staff SOP, if we are going through the review and you are choosing to do the payment in Lieu, it becomes a stipulation of approval that has to be resolved by Precon.
Blair Foley- We submit an exhibit that has to be reviewed during the review cycle and the amount is determined. That is what we can turn over to the preconstruction portion of the work. That works within the current language. Could be a staff issue, transportation is the reviewer.
Jaime Cook- They report to me, this is an easy fix.

7. OLD BUSINESS

William Varian- BCC did approve the fee increase last week. I spoke on behalf of the DSAC. January 1st, 2026, the new fees go into effect on any permits applied for after the 1st of the year.

8. COMMITTEE MEMBER COMMENTS
None

9. ADJOURN

Future Meeting dates
December 3, 2025 - 3:00PM
January 7, 2026 - 3:00PM
February 4, 2026 - 3:00PM

There being no further business for the good of the County, the meeting was adjourned at 4:26PM.

COLLIER COUNTY
DEVELOPMENT SERVICES ADVISORY COMMITTEE

William Varian, Chairman

These minutes were approved by the Committee/Chairman on 12/3/25,
(check one) as submitted ✓ or as amended _____.

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

November 13, 2025

FOR IMMEDIATE RELEASE

Notice of Public Meeting
Development Services Advisory Committee
Collier County, Florida

December 03, 2025
3:00 p.m.

Notice is hereby given that the **Collier County Development Services Advisory Committee** will meet on **Wednesday, December 03, 2025,** at **3:00 p.m.** in Conference Room 609/610 of the Growth Management Community Development Department building, 2800 N. Horseshoe Drive, Naples, Florida.

Individuals who would like to participate in person must complete and submit a speaker form prior to the beginning of the discussion about the item.

About the public meeting:
Two or more members of the Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future Board of County Commissioners meeting.

All interested parties are invited to attend and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations in order to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380 as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call Heather Cartwright-Yilmaz at (239) 252-8389.

###

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

colliercountyfl.gov
twitter.com/CollierPIO
facebook.com/CollierGov
youtube.com/CollierGov

November 24, 2025

FOR IMMEDIATE RELEASE

Notice of Public Meeting
Forest Lakes Roadway & Drainage MSTU Advisory Committee
Collier County, Florida

December 2, 2025
10:00 a.m.

Notice is hereby given that the **Forest Lakes Roadway & Drainage Municipal Service Taxing Unit (MSTU) Advisory Committee** will meet on **Tuesday, December 2, 2025,** at **10:00 a.m.** in the Clubhouse at Forest Lakes, 1058 Forest Lakes Drive, Naples, Florida.

Individuals who would like to participate in person must complete and submit a speaker form prior to the beginning of the discussion about the item.

The agenda will be available on the Collier County Government website at www.collierptne.com/mtsu/forest-lakes-roadway-drainage-advisory-commitee/.

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

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For more information, call Jeffrey Felger at (239) 252-5775.

FOREST LAKES

ROADWAY AND DRAINAGE M.S.T.U.
ADVISORY COMMITTEE
8300 Radio Road
Naples, FL 34104

AGENDA

December 2, 2025

1. **CALL TO ORDER**
2. **ATTENDANCE**

Advisory Committee:

Greg Pollock – Chair (4/21/2026)
Kathy Thomson – Vice Chair (4/21/2027)
Patrick Bernal (4/21/2027)
Marianne Fanning (4/21/2026)
Jerry Norsic (4/21/2028)

County Staff:

Ellen Sheffey – Director, PTNE
Jeffrey Felger – MSTU Project Manager
Rosio Garcia- MSTU Operations Analyst

Contractor(s):

Aaron Gross – Ground Zero Landscaping

3. **APPROVAL OF AGENDA**
4. **APPROVAL OF MINUTES – NOVEMBER 4, 2025**
5. **CONTRACTOR REPORTS**
   - **a.** Ground Zero Landscaping – Aaron Gross
6. **PROJECT MANAGERS REPORT – Jeffrey Felger**
   - **a. BUDGET REPORT**
7. **ONGOING BUSINESS**
   - **a.** Sidewalk Light Poles
     - Pole #33 Replacement (Woodshire Ln)- Working with Simmonds for an option – possibly have it as an LED because it might help with brightening up that area at night.
   - **b.** Lake #15 Wall Replacement – working on design with Jacobs Engineering
   - **c.** Lake Fountain Maintenance – Lake Doctors will be working on lake #9 (under warranty) and then will work on the two fountains in lake #14 – waiting for scheduling with Lake Doctors.
   - **d.** Fertilizer/Mulch- applied by Ground Zero
   - **e.** Does entrance flooding fall under the ordinance parameters? – Map of your Boundaries is attached in the packet.

8. **NEW BUSINESS**
   - **a.** Lakes #8 & #7 – Rip-Rap Replenishment – On hold until mid hi-season we will revisit and get set up for rainy season work with golf course.
   - **b.** Front entrance lights around the palms on the ground – had an onsite visit with Simmonds Electrical on 11-24-25 to see the scale and scope of work to be performed in the community.
     - Simmonds will be getting me quotes. They want to know if you want to go warm or cool on the palm tree lights.
     - I also had them get me a quote for the sign entry lights.

- On the visit he also said that the transformers need to be replaced, as they are rotted out.
- Simmonds are also working on getting the sensor for the decorative entry post lights that are on all the time.

c. What is a reasonable expectation for stormwater retention on the roads & what funds are available. – Would you like me to move forward with a Stormwater Mitigation Study in your community?

d. Sidewalk Replacement – I will be conducting the yearly sidewalk assessment at the start of December.

e. Resident emailed in about Pump station near the entrance. White Fence would cover it and make it look nice as you enter the community. Working to have a meeting with PUD.

f. Contacted Shenandoah for a quote to do swale reshaping on the golf course They have passed on the work, stating it would be too difficult to work and hard to remove the spoils.

g. Spoke with Aaron from Ground Zero about the west entrance to the community. He informed me that there is no irrigation on that side so we would need to have all the vegetation ripped out and irrigation installed.

h. Quotes

9. COMMITTEE MEMBER COMMENTS

10. PUBLIC COMMENTS

11. ADJOURNMENT

NEXT MEETING

JANUARY 6TH, 2025 - 10:00 AM
FOREST LAKES CONDO ASSOCIATION CLUBHOUSE
1058 FOREST LAKES DRIVE, NAPLES, FL 34112
(239) 261-5497

FOREST LAKES

ROADWAY AND DRAINAGE M.S.T.U. ADVISORY COMMITTEE

8300 Radio Road - Naples, FL 34104

MINUTES

NOVEMBER 4, 2025

I. CALL TO ORDER

Vice Chair Thomson called the meeting to order at 10:00 A.M. Roll call was taken, and a quorum of five were present.

II. ATTENDANCE

Advisory Committee	Greg Pollock – Chair
	Kathy Thomson – Vice Chair
	Patrick Bernal
	Marianne Fanning
	Jerry Norsic
Staff	Ellen Sheffey – Director, PTNE (Interim – Excused)
	Jeffrey Felger – Project Manager
	Rosio Garcia – Operations Coordinator
Contractors	Aaron Gross - Ground Zero Landscaping
	Wendy Warren - Premier Staffing (Transcription)
Public Attendees	Barbara Bell - Resident
	Doug Burnham – General Manager, QRGC
	Paul Carletta - Resident
	Tom McElroy - Resident
	Jack Hedenstrom - Resident
	Deborah Hestrup – Resident
	Holly Rice – Resident
	Tina Rindfleisch - Resident
	Stacie Young – Resident

III. APPROVAL OF AGENDA

Vice Chair Thomson moved to approve the November 4, 2025, Agenda of the Forest Lakes Roadway and Drainage MSTU Advisory Committee. Second by Mr. Norsic. Carried unanimously 5 - 0.

IV. APPROVAL OF MINUTES – October 7, 2025

Vice Chair Thomson moved to approve the minutes of the October 7, 2025, Forest Lakes Roadway and Drainage MSTU Advisory Committee meeting as presented. Second by Mr. Norsic. Carried unanimously 5 – 0.

V. CONTRACTOR REPORTS

A. Ground Zero Landscaping – Aaron Gross

Mr. Gross reported:

- Landscaping is well trimmed and in good condition.
- Fertilizer will be applied at the front entrance.

- Penta flowers in the entryway will be replaced with Impatiens flowers in December.
- Photographs of landscape specimens recommended to beautify the front entrance island were presented to the Committee.
    - Aged Junipers in the sign area will be removed; front Juniper bushes will be monitored, and the area will be relandscaped if necessary.
    - Plant species for consideration include Boxwood (*Carissa*) Beauty Natal Plum and Bulbine.
- Overgrown vegetation around the Quail Run Golf Club sign will be pruned.

VI. PROJECT MANAGERS REPORT

A. Budget Report

(*The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).*
Forest Lakes MSTU Fund 1626 Budget for November 4, 2025, prepared October 28, 2025.

Mr. Felger provided an overview of the budget highlighting:
Purchase Orders

1. City of Naples – reclaimed irrigation water.
2. Carter Fence Company – Woodshire Lane fence.
3. FPL – electricity.
4. Ground Zero Landscaping Services Inc. – grounds maintenance.
    a. Incidentals – landscape materials and refurbishment.
    b. Maintenance – regular landscape, swales & irrigation maintenance.
5. The Lake Doctors, Inc. – lake fountain(s).
6. Jacobs Engineering Group, Inc. – engineering consulting and design services.
7. Naples Electric Motor Works – Pump station services.
8. Pavement Maintenance Inc. – Sidewalk and curb repairs.
9. Premier Staffing Source, Inc. – transcription services.
10. Simmonds Electrical of Naples, Inc. – lighting & general electrical services.
11. SiteOne Landscape Supply – irrigation parts and pumps.
12. TIGRIS Aquatic Services, LLC – Lake's maintenance, aquatic vegetation control.
13. Tree Scaping Of Naples – Tree pruning.

Budget Summary

1. Line 1, Revenue – Millage assessed and Interest totals $849,700, a decrease of $419,100 over 2024, due to a millage rate reduction from 4.000 to 2.5000.
2. Line 2, Carry Forward – Unexpended Prior Year (2025) Funds 3,617,825.
3. Line 3, Revenue Total – A total of $4,467,525.
4. Line 23, Operating Expense – Of the $349,225 budgeted, $193,599 is committed to existing Purchase Orders and $1,026 is expended, leaving the remainder of $154,599 available within budget for additional operating expenses as needed.
5. Line 28, County Overhead – Of the $109,200 budgeted and $2,418 has been transferred, and a balance of $106,781 remains for transfer. (PTNE Staff & support, Property Appraiser & Tax Collector).
6. Line 31, Capital Reserves - $4,009,100 remains for future improvements.
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General

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2. The Ad Valorem property tax value increased 7.03% for fiscal year 2025 over 2024.
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4. The Office of Budget Management assumes 5% of the millage assessed will be delinquent and factors the assumption into the budget.
5. Tax Millage collected and interest, to maintain and improve MSTU assets, can only be utilized by the MSTU and within the district boundary.

Mr. Felger noted:

- Purchase Orders have been requested for Lake Doctors, Tigress Aquatic Services and Tree Scaping Of Naples, Inc.
- Tigress Aquatic services for lake maintenance/aquatic weed control will be scheduled monthly.
- Tree Scaping of Naples submitted proposals to trim trees on the southwest corner of Woodshire Lane, overhanging the fence, and palms.
- The *Asset Management Plan*, prepared June 4, 2024, which estimates life expectancies of MSTU assets and corresponding expenditure projections to fund maintenance and repairs of these assets through 2028, totaling $2,140,995, will be updated.

VII. ONGOING BUSINESS

Mr. Felger reported:

A. Shopping Center Screening – Fence & Riprap Berm

Fence Installation Woodshire Lane/Pine Ridge Crossing Shopping Center

- A Purchase Order was issued to Carter Fence Company in the amount of $15,025.00 to purchase equipment and install a black vinyl fence extending from the existing fence south of this area to The Crossings parking lot entrance off Woodshire Lane at the north end.
- Ground Zero Landscaping will construct a riprap berm in the ravine, and install a weed mat roll cloth and riprap, at a cost of $2,717.25.

B. Sidewalk Light Poles

- Simmonds Electrical of Naples is researching replacement options for Pole #33 on Woodshire Lane.

C. Lake Maintenance

- TIGRES Aquatic Services will spray the lakes for vegetation control in November.

D. Lake #15 Wall Replacement

- Design plans for the wall replacement will be requested from County approved contractors.
- Upon completion of final design and construction plans, approval by a licensed structural engineer will be obtained to proceed.
- The MSTU will oversee and consider fiscal responsibility for the project subject to approval by the Committee.
- Project installation will be coordinated with the Quail Run Golf Club.

E. Lake Fountain Maintenance

Lake #9

- Lake Doctors will perform maintenance on the Lake #9 pump.
- The pump, installed on March 26, 2025, at a cost of $10,130, is under warranty.

Lake #14

- Lake Doctors will commence repair work on the pump station and two fountains on Lake #14 upon completion of Lake #9 maintenance.

VIII. NEW BUSINESS

A. Lake Riprap Replenishment Lake 7 and 8

- Quail Run Golf Club (QRGC) requested the MSTU provide riprap material for their lakes, with club Staff to perform the installation.
- A quote for riprap material, based on Mr. Burnham's tonnage estimate and stone size, will be solicited from Pavement Maintenance, Inc. (PMI) in accordance with the *Asphalt Maintenance and Related Services Contract.*
- The proposed cost sharing arrangement will be presented to the Committee for consideration.
- Installation of riprap will be coordinated with Mr. Burnham.

B. Fertilizer

Ground Zero Landscaping will apply fertilizer in November in accordance with the schedule.

C. Front Entrance Lights

- A proposal for outdoor landscape lighting for the Palm trees on the entrance median will be requested from Simmonds Electrical.

D. Ordinance Parameters - Stormwater Flooding

- Flooding occurs during storm events posing a safety hazard.
- The Ordinance will be reviewed to ascertain the MSTU's parameters for flood control within the community.

E. Water Retention on Roadways

- Stormwater retention improvements on the community roadways will be researched.
- Cost of improvements and the tool for financial funding will be identified.

F. Roadway Paving

- Forest Lakes roads are in County inventory but not maintained by the County.
- The County retained Roadway Asset Services, LLC (RAS) to collect video and GPS data of the roadways.
- The information was used to evaluate the pavement so the County could plan and manage the maintenance and rehabilitation of the roadway network.
- Data collected was entered into the Cartegraph Asset Management system.
- A 1.5-inch leveling course of asphalt will be installed on Forest Lakes roadways to conform to the County standard and extend the life of the roadways.

Committee discussion:

- A roadway paving schedule should be developed.
- Number of roadways to be paved per year should be earmarked.
- An annual budget should be established for paving.

G. Sidewalks

Perimeter Sidewalk Maintenance

- An assessment of sidewalk conditions, including the slab in front of the Quail Run Club House, will be conducted.
- Concrete slabs with a variance of three quarter (¾) inches or more between slabs are considered a "trip hazard."
- A quote for repair will be requested from PMI based on the condition of slabs surveyed.
- Power washing will be considered for the sidewalks.

H. Pump Station

Mr. Felger will consult with the Public Utilities Division (PUD) to determine the feasibility of screening the pump station on the west side of the entrance to the community with a fence.

His findings will be reported at the December meeting.

I. Swale Recontouring

- Shenandoah will provide a proposal to recontour select swales on the golf course.

IX. COMMITTEE MEMBER COMMENTS

Easement Map

A map defining property easements in the Forest Lakes Community will be distributed to members at a future meeting.

X. PUBLIC COMMENTS

Woodshire Villas Code Complaint Update

- Mr. Hedenstrom of Woodshire Villas reported a Code Complaint filed with the County alleged the hedge planted by Kite Realty Group on the shared property line with Pine Ridge Crossing does not conform to the five-foot height code specification.
- Code Enforcement's response to the hedge planted is acceptable should be challenged.
- The request for new hedge planting will be revisited upon installation of the new fence.

Mr. Felger *will review the complaint and resolution with Code Enforcement.*

Traffic Calming

- Vehicles exceeding the speed limit on roadways are creating a safety concern for residents.
- Forest Lakes roadways are privately owned; speed limit enforcement is not feasible.

Lamp Outage

A resident reported a lamp outage on pole #100 in the vicinity of Narita Lane.

Mr. Felger *will notify Simmonds Electrical to replace the lamp.*

Landscaping
Ground Zero Landscaping will be directed to prune and lift the canopies of trees on the corner of 1421 Kelp Lane and Forest Lakes Boulevard.

XI. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 10:36 A.M.

FOREST LAKES ROADWAY AND DRAINAGE MSTU ADVISORY COMMITTEE

_____

Greg Pollock, Chair

The Minutes were approved by the Committee on _____,2025 as presented ____, or as amended ____.

https://www.collierptne.com/forest-lakes-roadway-drainage-advisory-committee/

NEXT MEETING: **DECEMBER 2, 2025 - 10:00 A.M.**
FOREST LAKES CONDO ASSOCIATION CLUBHOUSE
NAPLES, FL 34105
(239) 261-5497

Forest Lakes M.S.T.U.
Fund 1626
December 2, 2025
FY26

	FY-26	Vendor	Item	PO#	Budget	Commitments	Expenditures	Available
1	MILLAGE COLLECTED & INTEREST		MSTU Revenues		$ (849,700.00)	$ -	$ (201,495.53)	$ (648,204.47)
2	CARRY FORWARD		Unexpended Prior Year Funds		$ (3,617,825.00)	$ -	$ -	$ (3,617,825.00)
3	**ALL REVENUES**				**$ (4,467,525.00)**	**$ -**	**$ (201,495.53)**	**$ (4,266,029.47)**
4	ENG. FEES & OTHERS (631403)				$ 25,000.00	$ 2,301.00	$ -	$ 22,699.00
5	INDIRECT COST REIMBURSE	Collier County	Indirect Cost	Direct Pay	$ 4,200.00	$ 4,200.00	$ -	$ -
6	INTERDEPARTMENT PAYMENT						$ -	$ -
7	LANDSCAPE INCIDENTALS (634990)				$ 20,000.00	$ 12,207.24	$ 2,792.76	$ 5,000.00
		Ground Zero Landscaping	Grounds Maintenance			$ 55,376.00	$ 14,624.00	$ -
8	**OTHER CONTRACTUAL (634999)**				**$ 113,900.00**	**$ 55,376.00**	**$ 14,624.00**	**$ 43,900.00**
		Pavement Management	Sidewalks and Curbs	4500241924		$ 30,000.00	$ -	$ 30,000.00
		Tigris Aquatic Services LLC	Lake Maintenance	4500243057		$ 22,056.00	$ -	$ 22,056.00
		Lake Doctors	Lake Maintenance	**REQ 10342455**		$ 10,000.00	$ -	$ 10,000.00
		Carter Fence	Black Chain Link Fence	4500240046		$ 15,025.00	$ -	$ 15,025.00
9	**OTHER CONTRACTUAL (639990)**				**$ 134,625.00**	**$ 77,081.00**	**$ -**	**$ 57,544.00**
10	ELECTRICITY	FPL	Electricity		$ 13,500.00	$ 12,210.71	$ 2,089.29	$ (800.00)
11	WATER & SEWER	City of Naples	Water - Reclaimed Irrigation		$ 3,000.00	$ 2,768.08	$ 231.92	$ 0.00
12	INSURANCE GENERAL	Collier County	Insurance	Direct Pay	$ 900.00	$ 900.00	$ -	$ -
		SiteOne	Irrigation Parts & Pumps	4500242321		$ 8,859.95	$ 140.05	$ 9,000.00
		Naples Electric Motor Works	Pump Station Services	4500242839		$ 4,250.00	$ -	$ 4,250.00
13	SPRINKLER SYSTEM				$ 12,000.00	$ 13,109.95	$ 140.05	$ (1,250.00)
14	MULCH				$ 1,000.00	$ -	$ -	$ 1,000.00
15	LIGHTING MAINTENANCE (646451)	Simmonds Electrical	Electrical Services		$ 10,000.00	$ 14,000.00	$ -	$ (4,000.00)
16	LICENSE & PERMITS				$ 2,000.00	$ -	$ -	$ 2,000.00
17	OTHER MISCELLANEOUS (649990)	Premier Staffing	Transcription		$ 3,000.00	$ 2,500.00	$ -	$ 500.00
18	OFFICE SUPPLIES				$ 100.00	$ -	$ -	$ 100.00
19	COPYING CHARGES	J.M. Todd	Copier CPC		$ 200.00	$ 150.00	$ -	$ 50.00
20	FERT HERB CHEM				$ 500.00	$ -	$ -	$ 500.00
21	OTHER OPERATING				$ 300.00	$ -	$ -	$ 300.00
22	TRAFFIC SIGNS (63710)				$ 5,000.00	$ -	$ -	$ 5,000.00
23	**OPERATING EXPENSES**				**$ 349,225.00**	**$ 196,803.98**	**$ 19,878.02**	**$ 132,543.00**
					$ -		$ -	$ -
24	**CAPITAL OUTLAY**				**$ -**	**$ -**	**$ -**	**$ -**
25	PTNE STAFF & DIVISION OVERHEAD				$ 72,700.00	$ -	$ -	$ 72,700.00
26	PROPERTY APPRAISER				$ 10,000.00	$ -	$ 2,418.81	$ 7,581.19
27	TAX COLLECTOR				$ 26,500.00	$ -	$ 5,069.93	$ 21,430.07
28	**COUNTY OVERHEAD**				**$ 109,200.00**	**$ -**	**$ 7,488.74**	**$ 101,711.26**
29	RESERVES FOR CAPITAL				$ 4,009,100.00	$ -	$ -	$ 4,009,100.00
30								
31	**CAPITAL RESERVES**				**$ 4,009,100.00**	**$ -**	**$ -**	**$ 4,009,100.00**
32	**ALL EXPENSES**				**$ 4,467,525.00**	**$ 196,803.98**	**$ 27,366.76**	**$ 4,243,354.26**
33	**FY-26 BUDGET GRAND TOTAL**		= ALL REVENUES - ALL EXPENSES		**$ -**	**$ 196,803.98**	**$ (174,128.77)**	**$ (22,675.21)**

129,715,669	FY 13 Final Taxable Value	-2.4%
129,977,881	FY 14 Final Taxable Value	0.2%
140,171,072	FY 15 Final Taxable Value	7.8%
152,711,783	FY 16 Final Taxable Value	8.9%
165,722,702	FY 17 Final Taxable Value	8.5%
190,428,196	FY 18 Final Taxable Value	14.9%
202,132,375	FY 19 Final Taxable Value	6.1%
210,299,015	FY 20 Final Taxable Value	4.0%
219,999,549	FY 21 Final Taxable Value	4.6%
227,701,198	FY 22 Final Taxable Value	3.5%
257,799,765	FY 23 Final Taxable Value	13.2%

Total Available Balance	**$ 4,243,354.26**
Plus Commited And Not Spent	**$ 196,803.98**
Estimated Cash	**$ 4,440,158.24**

Prepared 11.26.2025 MV

Forest Lakes M.S.T.U.
Fund 1626
December 2, 2025
FY26

294,456,887	FY 24 Final Taxable Value	14.2%	
316,446,199	FY 25 Gross Taxable Value	7.5%	
338,697,670	FY 26 Gross Taxable Value	7.0%	
7.03%	**Adjustment FY 25 to FY 26**		
	FY 26 Gross MSTU Revenue	FY 25	
Millage	**2.5000**	4.0000	**4.0 mill cap**
Tax Dollars	**$846,744**	$1,265,785	**($419,041)**



Simmonds Electrical of Naples, Inc.

8941 Quality Rd
Bonita Springs, FL 34135-7000

STREET LIGHTING • SIGNALIZATION • GENERATORS
INDUSTRIAL AND COMMERCIAL

Phone: (239) 643-2770
Fax: (239) 643-6873

Forest Lakes MSTU
8300 Radio Rd
Naples, FL 34104
(239) 452-0710 Mobile
Mr. Jeffrey Felger

November 25, 2025
Quote # 2517162

We hereby submit specifications and estimates for: **Forest Lakes MSTU Street Lights Lighting Maintenance**

Replace up to (20) 70w HPS lamps. Lamps supplied by Collier County.
Replace up to (5) 70w HPS ballast. Ballast supplied by Collier County.

Man Hr	Per Hr	Number Men	Type	Est Material/Equip	Calendar Days	Engineering/Sublet
40	$ 70.00	1-2	Electrical	$ 1,423.68	120	$ -

Total Material, Labor and Equipment **$ 4,223.68** (not to exceed)

Note: For estimating purposes only. Actual time and materials may vary based on conditions encountered. Invoice will be based on time and material, and will be itemized per Annual Contract **23-8074**.

We hereby propose to furnish the above complete in accordance with the above specifications for the sum of
#NAME?

Estimate valid for 30 days.

JACOBS ENGINEERING GROUP, INC.

PROFESSIONAL SERVICES LIBRARY

STRUCTURAL ENGINEERING CATEGORY (ST)

November 21, 2025

ATTACHMENT A - MANHOUR AND COST SUMMARY ESTIMATE

PROFESSIONAL SERVICES LIBRARY

STRUCTURAL ENGINEERING CATEGORY (ST)

CONTRACT NO. 18-7432 (ST)

"QUAIL RUN GOLF CLUB: LAKE 15 WALL REPLACEMENT DESIGN, AND CONSTRUCTION MONITORING"

TASKS	**SUMMARY FEE SHEET**													
	PRINCIPAL		SENIOR PROJECT MANAGER		SENIOR ENGINEER		ENGINEER		SENIOR DESIGNER		CLERICAL		TOTAL HRS	TOTAL LABOR
	Man-hours	Hourly Rate	Man-hours	Hourly Rate	Man-hours	Hourly Rate	Man-hours	Hourly Rate	Man-hours	Hourly Rate	Man-hours	Hourly Rate		
TASK I: LAKE 15 WALL REPLACEMENT DESIGN (Lump Sum)	12	$238.00	12	$201.00	36	$175.00	80	$136.00	80	$128.00	8	$73.00	228	$33,272.00
TASK II: POST DESIGN SERVICES (Time & Materials)	4	$238.00	8	$201.00	8	$175.00	24	$136.00	0	$128.00	0	$73.00	44	$7,224.00
	M/H	Amt.	M/H	Amt.	M/H	Amt.	M/H	Amt.	M/H	Amt.	M/H	Amt.		
TOTALS	16	$3,808.00	20	$4,020.00	44	$7,700.00	104	$14,144.00	80	$10,240.00	8	$584.00		$40,496.00

Estimated Direct Expenses

Topographic Survey Services (Johnson)	$3,500.00
TOTAL EXPENSES (Lump Sum)	$3,500.00

Total Labor	$40,496.00
Total Expenses	$3,500.00
Total Project Cost:	**$43,996.00**

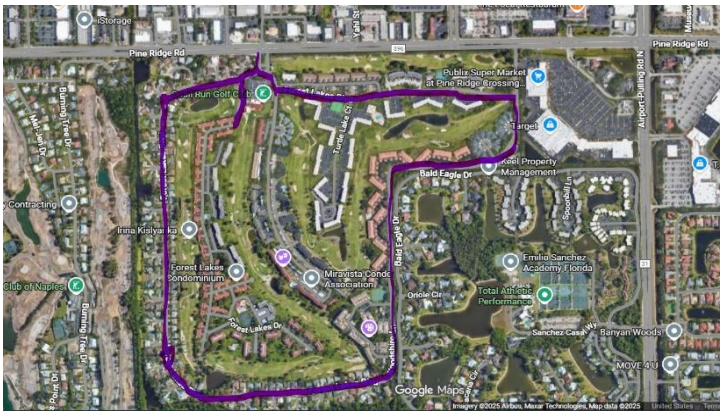
SERVICE CONTRACTING SOLUTIONS

Quotation

November 18, 2025

To: Collier County
Attn: Jeff Felger
Project: Forest Lakes MSTU Sidewalk Pressure Washing

Pressure Washing Sidewalks	*Sq Ft	Unit Price	Total Price
Pressure Washing Labor rate	20230	$ 0.56	$ 11,328.80
			$ -
		Total	**$ 11,328.80**
		Grand Total	**$ 11,328.80**



Scope of Work:

Pressure Washing

1) Treat surfaces to be washed using Biodegradable surface cleaning concentrate.
2) Pressure wash surfaces using a combination of High pressure washing and Hover covers.

SERVICE CONTRACTING SOLUTIONS
David Thirion
10090 Amberwood Rd
Fort Myers, FL 33917
Phone (239) 939-7622
Fax (239) 939-1543

Tree Scaping of Naples, Inc.
LCC20170001172
1180 23rd Street SW
Naples, FL 34117
(239)331-3103
treescapingnaples@hotmail.com
www.treescapingofnaples.net
Gustavo Leon, Arborist, FL-6703A

Quote

Date: 12/01/2025
Quote No.: 11439

Transportation Management Services
Dept. - Collier County
8300 Radio Rd
Naples, FL 34104
Attn: Jeffrey Felger
jeffrey.felger@collier.gov
239-252-5775 office
service address:Emerald Greens
contract 23-8069

Qty	Location	Description	Unit Price	Total
32		B.1 Line Item 1 - 32 hours @ $285.00/ hourly rate -- cut back branches to the property line along the fence, approximately 3200 ft, and clear the light post	$285.00	$9,120.00

Total $9,120.00

Upon acceptance of this quote, please sign and return to sender.This quote and pricing are valid for 30 days.Payment in full due upon receipt of invoice. We accept cash, check, and credit card (with a 3.5% surcharge added).

We are fully licensed and insured (certificates available upon request), and FDOT TTC certified. All pruning is done to ISA and American Natural (A-300) standards. Tree Scaping is not responsible for damages to underground pipes, irrigation systems, cables,etc.

Tree Scaping of Naples, Inc.
LCC20170001172
1180 23rd Street SW
Naples, FL 34117
(239)331-3103
treescapingnaples@hotmail.com
www.treescapingofnaples.net
Gustavo Leon, Arborist, FL-6703A

Quote

Date: 12/01/2025
Quote No.: 11438

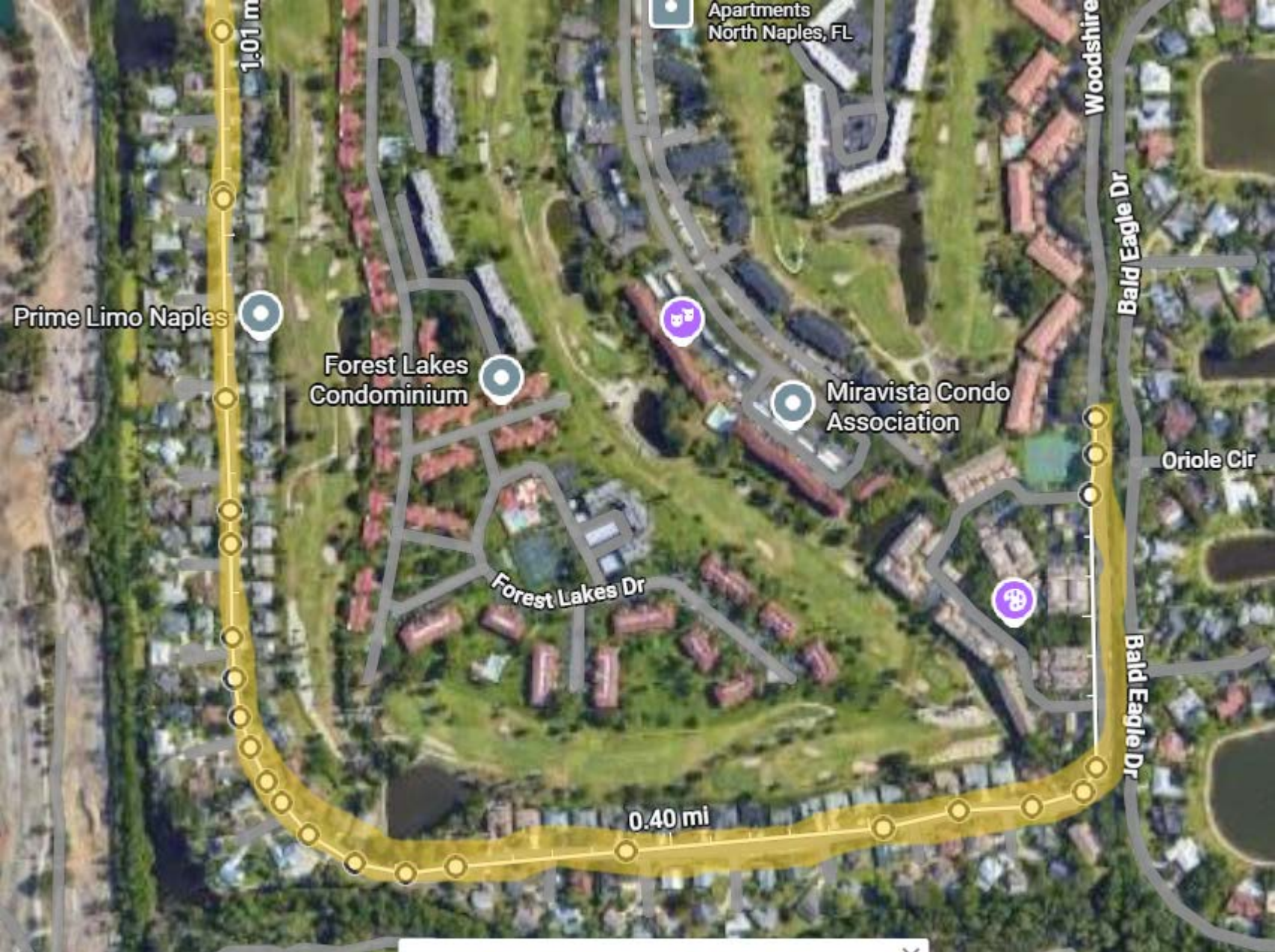
Transportation Management Services
Dept. - Collier County
8300 Radio Rd
Naples, FL 34104
Attn: Jeffrey Felger
jeffrey.felger@collier.gov
239-252-5775 office
service address:Quail Run Golf Club entrance
contract 23-8069

Qty	Location	Description	Unit Price	Total
5		A.2 Line Item 4 -- coconut palms trimmed	$39.00	$195.00
14		A.2 Line Item 11 -- royal palms trimmed	$75.00	$1,050.00

Total $1,245.00

Upon acceptance of this quote, please sign and return to sender.This quote and pricing are valid for 30 days.Payment in full due upon receipt of invoice. We accept cash, check, and credit card (with a 3.5% surcharge added).

We are fully licensed and insured (certificates available upon request), and FDOT TTC certified. All pruning is done to ISA and American Natural (A-300) standards. Tree Scaping is not responsible for damages to underground pipes, irrigation systems, cables,etc.


Apartments
North Naples, FL
Woodshire
Bald Eagle Dr
Prime Limo Naples
Forest Lakes
Condominium
Miravista Condo
Association
Oriole Cir
Forest Lakes Dr
Bald Eagle Dr
0.40 mi
Measure distance
Click on the map to add to your path

FOREST LAKES

ROADWAY AND DRAINAGE M.S.T.U. ADVISORY COMMITTEE

8300 Radio Road - Naples, FL 34104

MINUTES

NOVEMBER 4, 2025

I. CALL TO ORDER

Vice Chair Thomson called the meeting to order at 10:00 A.M. Roll call was taken, and a quorum of five were present.

II. ATTENDANCE

Advisory Committee	Greg Pollock – Chair
	Kathy Thomson – Vice Chair
	Patrick Bernal
	Marianne Fanning
	Jerry Norsic
Staff	Ellen Sheffey – Director, PTNE (Interim – Excused)
	Jeffrey Felger – Project Manager
	Rosio Garcia – Operations Coordinator
Contractors	Aaron Gross - Ground Zero Landscaping
	Wendy Warren - Premier Staffing (Transcription)
Public Attendees	Barbara Bell - Resident
	Doug Burnham – General Manager, QRGC
	Paul Carletta - Resident
	Tom McElroy - Resident
	Jack Hedenstrom - Resident
	Deborah Hestrup – Resident
	Holly Rice – Resident
	Tina Rindfleisch - Resident
	Stacie Young – Resident

III. APPROVAL OF AGENDA

Vice Chair Thomson moved to approve the November 4, 2025, Agenda of the Forest Lakes Roadway and Drainage MSTU Advisory Committee. Second by Mr. Norsic. Carried unanimously 5 - 0.

IV. APPROVAL OF MINUTES – October 7, 2025

Vice Chair Thomson moved to approve the minutes of the October 7, 2025, Forest Lakes Roadway and Drainage MSTU Advisory Committee meeting as presented. Second by Mr. Norsic. Carried unanimously 5 – 0.

V. CONTRACTOR REPORTS

A. Ground Zero Landscaping – Aaron Gross

Mr. Gross reported:

- Landscaping is well trimmed and in good condition.
- Fertilizer will be applied at the front entrance.

- Penta flowers in the entryway will be replaced with Impatiens flowers in December.
- Photographs of landscape specimens recommended to beautify the front entrance island were presented to the Committee.
    - Aged Junipers in the sign area will be removed; front Juniper bushes will be monitored, and the area will be relandscaped if necessary.
    - Plant species for consideration include Boxwood (*Carissa*) Beauty Natal Plum and Bulbine.
- Overgrown vegetation around the Quail Run Golf Club sign will be pruned.

VI. PROJECT MANAGERS REPORT

A. Budget Report

(*The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).*
Forest Lakes MSTU Fund 1626 Budget for November 4, 2025, prepared October 28, 2025.

Mr. Felger provided an overview of the budget highlighting:

Purchase Orders

1. City of Naples – reclaimed irrigation water.
2. Carter Fence Company – Woodshire Lane fence.
3. FPL – electricity.
4. Ground Zero Landscaping Services Inc. – grounds maintenance.
    a. Incidentals – landscape materials and refurbishment.
    b. Maintenance – regular landscape, swales & irrigation maintenance.
5. The Lake Doctors, Inc. – lake fountain(s).
6. Jacobs Engineering Group, Inc. – engineering consulting and design services.
7. Naples Electric Motor Works – Pump station services.
8. Pavement Maintenance Inc. – Sidewalk and curb repairs.
9. Premier Staffing Source, Inc. – transcription services.
10. Simmonds Electrical of Naples, Inc. – lighting & general electrical services.
11. SiteOne Landscape Supply – irrigation parts and pumps.
12. TIGRIS Aquatic Services, LLC – Lake's maintenance, aquatic vegetation control.
13. Tree Scaping Of Naples – Tree pruning.

Budget Summary

1. Line 1, Revenue – Millage assessed and Interest totals $849,700, a decrease of $419,100 over 2024, due to a millage rate reduction from 4.000 to 2.5000.
2. Line 2, Carry Forward – Unexpended Prior Year (2025) Funds 3,617,825.
3. Line 3, Revenue Total – A total of $4,467,525.
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Fence Installation Woodshire Lane/Pine Ridge Crossing Shopping Center

- A Purchase Order was issued to Carter Fence Company in the amount of $15,025.00 to purchase equipment and install a black vinyl fence extending from the existing fence south of this area to The Crossings parking lot entrance off Woodshire Lane at the north end.
- Ground Zero Landscaping will construct a riprap berm in the ravine, and install a weed mat roll cloth and riprap, at a cost of $2,717.25.

B. Sidewalk Light Poles

- Simmonds Electrical of Naples is researching replacement options for Pole #33 on Woodshire Lane.

C. Lake Maintenance

- TIGRES Aquatic Services will spray the lakes for vegetation control in November.

D. Lake #15 Wall Replacement

- Design plans for the wall replacement will be requested from County approved contractors.
- Upon completion of final design and construction plans, approval by a licensed structural engineer will be obtained to proceed.
- The MSTU will oversee and consider fiscal responsibility for the project subject to approval by the Committee.
- Project installation will be coordinated with the Quail Run Golf Club.

E. Lake Fountain Maintenance

Lake #9

- Lake Doctors will perform maintenance on the Lake #9 pump.
- The pump, installed on March 26, 2025, at a cost of $10,130, is under warranty.

Lake #14

- Lake Doctors will commence repair work on the pump station and two fountains on Lake #14 upon completion of Lake #9 maintenance.

VIII. NEW BUSINESS

A. Lake Riprap Replenishment Lake 7 and 8

- Quail Run Golf Club (QRGC) requested the MSTU provide riprap material for their lakes, with club Staff to perform the installation.
- A quote for riprap material, based on Mr. Burnham's tonnage estimate and stone size, will be solicited from Pavement Maintenance, Inc. (PMI) in accordance with the *Asphalt Maintenance and Related Services Contract.*
- The proposed cost sharing arrangement will be presented to the Committee for consideration.
- Installation of riprap will be coordinated with Mr. Burnham.

B. Fertilizer

Ground Zero Landscaping will apply fertilizer in November in accordance with the schedule.

C. Front Entrance Lights

- A proposal for outdoor landscape lighting for the Palm trees on the entrance median will be requested from Simmonds Electrical.

D. Ordinance Parameters - Stormwater Flooding

- Flooding occurs during storm events posing a safety hazard.
- The Ordinance will be reviewed to ascertain the MSTU's parameters for flood control within the community.

E. Water Retention on Roadways

- Stormwater retention improvements on the community roadways will be researched.
- Cost of improvements and the tool for financial funding will be identified.

F. Roadway Paving

- Forest Lakes roads are in County inventory but not maintained by the County.
- The County retained Roadway Asset Services, LLC (RAS) to collect video and GPS data of the roadways.
- The information was used to evaluate the pavement so the County could plan and manage the maintenance and rehabilitation of the roadway network.
- Data collected was entered into the Cartegraph Asset Management system.
- A 1.5-inch leveling course of asphalt will be installed on Forest Lakes roadways to conform to the County standard and extend the life of the roadways.

Committee discussion:

- A roadway paving schedule should be developed.
- Number of roadways to be paved per year should be earmarked.
- An annual budget should be established for paving.

G. Sidewalks

Perimeter Sidewalk Maintenance

- An assessment of sidewalk conditions, including the slab in front of the Quail Run Club House, will be conducted.
- Concrete slabs with a variance of three quarter (¾) inches or more between slabs are considered a "trip hazard."
- A quote for repair will be requested from PMI based on the condition of slabs surveyed.
- Power washing will be considered for the sidewalks.

H. Pump Station

Mr. Felger will consult with the Public Utilities Division (PUD) to determine the feasibility of screening the pump station on the west side of the entrance to the community with a fence.

His findings will be reported at the December meeting.

I. Swale Recontouring

- Shenandoah will provide a proposal to recontour select swales on the golf course.

IX. COMMITTEE MEMBER COMMENTS

Easement Map

A map defining property easements in the Forest Lakes Community will be distributed to members at a future meeting.

X. PUBLIC COMMENTS

Woodshire Villas Code Complaint Update

- Mr. Hedenstrom of Woodshire Villas reported a Code Complaint filed with the County alleged the hedge planted by Kite Realty Group on the shared property line with Pine Ridge Crossing does not conform to the five-foot height code specification.
- Code Enforcement's response to the hedge planted is acceptable should be challenged.
- The request for new hedge planting will be revisited upon installation of the new fence.

Mr. Felger *will review the complaint and resolution with Code Enforcement.*

Traffic Calming

- Vehicles exceeding the speed limit on roadways are creating a safety concern for residents.
- Forest Lakes roadways are privately owned; speed limit enforcement is not feasible.

Lamp Outage

A resident reported a lamp outage on pole #100 in the vicinity of Narita Lane.

Mr. Felger *will notify Simmonds Electrical to replace the lamp.*

Landscaping
Ground Zero Landscaping will be directed to prune and lift the canopies of trees on the corner of 1421 Kelp Lane and Forest Lakes Boulevard.

XI. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 10:36 A.M.

FOREST LAKES ROADWAY AND DRAINAGE MSTU ADVISORY COMMITTEE

Greg Pollock, Chair

The Minutes were approved by the Committee on 12/2 ,2025 as presented ___, or as amended ✓.

https://www.collierptne.com/forest-lakes-roadway-drainage-advisory-committee/

NEXT MEETING: **DECEMBER 2, 2025 - 10:00 A.M.**
FOREST LAKES CONDO ASSOCIATION CLUBHOUSE
NAPLES, FL 34105
(239) 261-5497

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

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December 8, 2025

FOR IMMEDIATE RELEASE

Notice of Hybrid Remote Public Meeting
Golden Gate Beautification MSTU Advisory Committee
Collier County, Florida

December 16, 2025
4:30 p.m.

Notice is hereby given that the **Golden Gate Beautification Municipal Service Taxing Unit (MSTU) Advisory Committee** will meet on **Tuesday, December 16, 2025,** at **4:30 p.m.** This will be a Hybrid Remote meeting and held at the Golden Gate Community Center, 4701 Golden Gate Parkway, Naples, Florida. The public may participate either remotely or in person.

Individuals who would like to participate remotely should contact Rosio Garcia at Rosio.Garcia@collier.gov by noon on December 16.

Remote participation is provided as a courtesy and is at the user's risk. The County is not responsible for technical issues.

The agenda will be available on the Collier County Government website at https://www.collierptne.com/mtsu/golden-gate-beautification-advisory-committee/.

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call Jeffrey Felger at (239) 252-5775.

###

GOLDEN GATE BEAUTIFICATION M.S.T.U.

8300 Radio Road
Naples, FL 34104

DECEMBER 16, 2025

1. **CALL TO ORDER**
2. **ATTENDANCE**

Advisory Committee	Patricia Spencer – Chair (10/06/2029) Florence "Dusty" Holmes (10/06/2029) Ron Jefferson (10/06/2026) - Committee Vacancy - - Committee Vacancy -
Staff	Ellen Sheffey – PTNE Director Jeffrey Felger – Project Manager
Contractors	Mike McGee – Landscape Architect (McGee & Assoc) Joan Cruz – Grounds Maintenance (Superior Landscaping) Wendy Warren – Transcription (Premier)

3. **PLEDGE OF ALLEGIANCE**
4. **APPROVAL OF AGENDA**
5. **APPROVAL OF MINUTES**
   a. November 18, 2025
   b. November 24, 2025
6. **LANDSCAPE MAINTENANCE REPORT – SUPERIOR LANDSCAPING**
7. **LANDSCAPE ARCHITECT'S REPORTS – MCGEE & ASSOCIATES**
   a. Sunshine Boulevard
   b. Coronado Parkway & Hunter Boulevard
   c. Tropicana Boulevard
8. **PROJECT MANAGER'S REPORT**
   a. Budget Report
   b. Committee Application(s) - Tamara Gubala
9. **ONGOING BUSINESS**
   a. Sunshine Irrigation Pump Station – it is running, but on a clock. Got the word from Naples Pumps that we need to switch to Motorola and VFD computer. The pump and the computer can't currently talk to each other. I've been working with Collier County Irrigation department. And I will be working with Contemporary Controllers. Naples Electric Motor Works Inc. has quoted for a non-pressurized VFD controller that will communicate with the Motorola controller the way it should. Quote attached.

b. Working with Simmonds Electric on the missing light pole - From the accident on 28th and Tropicana. Spoke with Risk, they stated that we pay for it up front and they will reimburse us on the cost. - Paperwork is in Procurement. Waiting for the PO to issue work. This will take some time to complete. Pole itself is 10 to 14 weeks out.

10. NEW BUSINESS

a. Fertilizing – Superior landscape

b. Mulching – Southeast spreading informed my Mid-January - Southeast Spreading INC.

c. Pressure washing the bricks – Spoke with Superior if this is in their wheelhouse – to clean the pavers (Coronado and Hunter)

d. Tree Scapes - and Motorola - Irrigation controllers – filling in the paperwork to get work issued.

11. PUBLIC COMMENTS

12. ADJOURNMENT

NEXT MEETING:
JANUARY 20, 2025 – 4:30 PM
GOLDEN GATE COMMUNITY CENTER
4701 GOLDEN GATE PARKWAY
NAPLES, FL 34116



GOLDEN GATE M.S.T.U. ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104
November 18, 2025

MINUTES

I. CALL TO ORDER

The meeting was called to order at 4:30 P.M. by Chair Spencer. Attendance was called and a quorum was not established.

II. ATTENDANCE

Advisory Committee	Patricia Spencer – Chair
	Florence "Dusty" Holmes
	Ron Jefferson (Excused)
	Open Seat
	Open Seat
Staff	Ellen Sheffey – PTNE Interim Director (Excused)
	Jeffrey Felger – Project Manager
Landscape	Mike McGee – Landscape Architect, McGee & Associates
	Joan Cruz – Superior Landscaping & Lawn Services (Excused)
Others	Wendy Warren – Transcription, Premier

III. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was recited.

IV. APPROVAL OF AGENDA

Staff noted that due to absence of a quorum the meeting would be held as an informational meeting in accordance with the Agenda.

V. APPROVAL OF MINUTES – September 19, 2025 and October 21, 2025

The minutes of September 19, 2025, and October 21, 2025, Golden Gate Beautification MSTU Advisory Committee meeting, will be considered at the November 24, 2025, meeting.

VI. LANDSCAPE MAINTENANCE REPORT – Superior Landscaping (Excused)

Mr. Felger reported:

- Superior Landscaping & Lawn Service has initiated service on all MSTU roadways.
- Coronado Parkway, Hunter Boulevard and Tropicana Boulevard are in good condition.
- Sunshine Boulevard median refurbishments are pending resolution of the irrigation issues.

VII. LANDSCAPE ARCHITECT'S REPORT – McGee & Associates

(*The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).*

Mr. McGee summarized the November 4, 2025, observation report noting format highlighting designation:

- Yellow - maintenance recommendation.
- Red - multiple plant loss will occur if not addressed.
- Purple – plants are under warranty and the responsibility of the landscaping contractor to replace.
- Blue (RFQ) – a quote for replacement plants has been requested.
- Strikethrough – items have been, or are being, addressed.

Sunshine Boulevard

- All replacement plantings are on hold due to irrigation pump system not functioning.
- Review all duckbill guy systems on trees to ensure proper condition.
- All volunteer weeds and tree sprouts need to be removed.

18th Place Median

- Teardrop medians require maintenance.

Coronado Parkway and Hunter Boulevard

All Locations

- Tracer spray, to identify herbicide applications and provide a visual guide of where herbicide has been sprayed, should be used to help prevent over spraying, drift, and accidental application to unintended areas.
- Review irrigation coverage of Perennial Peanut. A quote has been requested for replacement.
- Recommend all paver areas be pressure washed and treated with "Wet and Forget" mold treatment spray.
- Recommend all valve locations be reviewed for green reflective markers.
- Repaint median end numbering.

Tropicana Boulevard

- All plant replacement recommendations are on hold due to the irrigation pump system mal functioning.
- Repaint median end numbering.

Fertilizer Schedule

The 2025 – 2026 recommended fertilization schedule for all roadways are included with the report.

Comments

Mr. Schumacher reported:

- A vehicular accident downed a decorative light pole on the south end of Median #5.
- Power was turned off and Simmonds Electrical, Inc. notified, and a repair/replacement quote requested.
- An insurance claim will be filed with the Risk Management Division if an accident report is available from the Sheriff's Office.

VIII. PROJECT MANAGER'S REPORT

Mr. Felger reported:

A. Budget Report

(*The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).*

Golden Gate MSTU Fund 1621 Budget for November 17, 2025, prepared November 14, 2025.

Purchase Orders

1. Agriculture Services International – irrigation services.
2. FPL – electricity.
3. McGee & Associates – landscape architectural services.
4. Naples Christmas Lighting, dba Sight N Sound – Holiday decorations.
5. Naples Electric motor Works (NEMW) – pump station maintenance.
6. Premier Staffing – transcription services.
7. Simmonds Electrical – electrical maintenance and repairs.
8. SiteOne Landscape Supply – irrigation parts & components.
9. Southeast Spreading Company – mulch.
10. Superior Landscaping & Maintenance
    a. Incidentals – landscape plants, materials, and refurbishment.
    b. Maintenance – regular landscape & irrigation maintenance.
11. Tree Scaping of Naples, Inc. – tree pruning and removal.

Budget Summary

1. Line 1, Revenues and Interest – Millage assessed and Interest totals $775,000, an increase of $38,800 over FY 24.
2. Line 2, Carry Forward – Unexpended Prior Year (2025) Funds Total $2,538,738.
3. All Revenues – A total of $3,229,738 (Millage Assessed, Interest, and FY-25 Carry Forward Funds).
4. Line 21, Operating Expense – Of the $420,800 budgeted, $300,855 is committed to existing Purchase Orders and $17,354 is expended, leaving the remainder of $102,589 available within budget for additional operating expenses as needed.
5. Line 25, County Overhead – Of the $90,700 budgeted, $1,589 has been transferred, and a balance of $89,110 remains for transfer (PTNE Staff & support, Property Appraiser, & Tax Collector).
6. Line 28, Capital Projects – Of the $2,3808,938 budgeted, a Purchase Order in the amount of $31,738 has been issued for irrigation repairs, leaving $2,777,200 available for improvement projects.
7. Line 28, All Expenses – Of $3,320,438 budgeted, $332,593 is committed, $18,944 has been expended, leaving a remainder of $2,968,899 available for MSTU expenditures.

General

1. The Fiscal Year 2026 budget is effective October 1, 2025.
2. Unspent Fiscal Year 2025 funds were carried forward to 2026.
3. The Ad Valorem taxable value increased 8.94% for fiscal year 2025 over 2024 generating additional revenue of $38,800.
4. The MSTU Tax Rate for 2026 is 0.5000 Mills.
5. The Office of Budget Management assumes 5% of the millage assessed will be delinquent and factors the assumption into the budget.
6. The *Asset Management Plan* which estimates life expectancies of MSTU assets and corresponding expenditure projections to fund maintenance and repairs of these assets through 2028 will be updated.
7. Tax millage collected by the Golden Gate Beautification MSTU for beautification improvements and maintenance may only be utilized by the MSTU and within the MSTU district boundary.

Mr. Felger noted:

1. Purchase Orders for FY-26 are still being processed.
2. An invoice in the amount of $31,738.40 has been received from Agricultural Services International (ASI) for the installation of an irrigation pump on Sunshine Boulevard.
3. A Purchase Order was issued to Southeast Spreading.
4. The Capital Projects category will fund the proposed irrigation and landscape project(s) on Golden Gate Parkway.
5. Uncommitted funds available within budget are eligible for transfer to other categories upon approval by the Committee.
6. An inquiry will be made to the Office of Budget Management (OMB) for addition of a line item in the FY-26 budget to allocate $150,000 for each of the four MSTU roadways in the Capital Improvements category dedicated to funding expenses incurred disaster/catastrophic events.

IX. ONGOING BUSINESS

Mr. Felger reported:

A. Parkway Landscape & Irrigation Median Improvements

Proposed Cost Share – Road, Bridge & Stormwater Division (RBSD)

- The MSTU approved the Road Maintenance Division's cost sharing proposal for Parkway Landscape and Irrigation Median Improvements from Santa Barbara Boulevard to 52nd. Terrace SW (including the Parkway canal bridge) for an amount of fifty per cent of total cost, not to exceed $70,000.00 at the September 16, 2025, meeting.
- Pamela Lulich, Manager, Landscape Operations, is preparing an *Executive Summary* for Landscape and Irrigation improvements on Golden Gate Parkway/Golden Gate Bridge, west of the welcome sign at the intersection of Santa Barbara Boulevard, and east toward the bridge over the canal.
- Irrigation system installation will commence, based on the contractor's availability and issuance of a Purchase Order.
- A Notice-to-Proceed will be issued upon completion of the irrigation system installation.
- The Road Maintenance Division will be responsible for installing and maintaining the improvements.

B. Irrigation

Mr. Felger reported:

Sunshine Irrigation Pump Station

- Agricultural Services International (ASI) installed a pre-manufactured *Rain Bird* Compact Low Profile VFD Pump Station.
- A quote will be requested from Naples Electric Motor Works (NEMW) for purchase and installation of an upgraded filter for the new pump.
- The quote will be presented to the Committee for consideration at the November meeting.

Irrigation System Conversion

- Naples Electric Motor Works reported that the irrigation pump is functioning but running on a clock.
- NEMW recommended the irrigation system controllers be converted from HydroPoint to Motorola™ as the pump and computer are not communicating.
- Conversion of the MSTU's irrigation system would provide continuity with the County equipment.
- Contemporary Controllers submitted a proposal to purchase and install the Motorola™ controller(s).

The quote will be presented to the Committee at the November 24, 2025, meeting for consideration.

C. Holiday Decorations

Mr. Felger reported Naples Christmas Lighting, a Division of Sight N Sound, installed holiday decorations and lighting in the Right-of-Way (ROW) on Golden Gate Parkway, at the intersection of Santa Barbara Boulevard.

D. Light Pole Replacement

Mr. Felger reported:

- A vehicular accident downed a decorative light pole on Tropicana Boulevard and 28th Avenue SW.
- An insurance claim will be filed with the Risk Management Division if an accident report is available from the Sheriff's Office.
- The MSTU will fund the pole replacement and be reimbursed by the County. A $500.00 deductible may apply.

The quote submitted by Simmonds Electrical to replace the light pole will be considered by the Committee at the November 24, 2025, meeting.

X. NEW BUSINESS

A. Fertilizing

Mr. Felger reported that Superior Landscaping and will apply fertilizer in November/December in accordance with McGee & Associates schedule.

B. Mulch

Mr. Felger reported that Southeast Spreading will install brown mulch on the medians mid-December.

C. Landscape Design Sunshine Boulevard

Mr. McGee reported:

- Turf and plants stressed from lack of irrigation will be removed.
- Hardwood trees are in good condition.
- A design concept for renovation of the medians will be presented to the Committee.
- Funds are available in McGee & Associates *FY-26 Landscape Architectural Maintenance Consulting Services Contract* for the design concept and plans.
- Planting material suggestions from Members are sought.

D. Pressure Washing

Mr. Felger reported that a quote has been requested from Superior Landscaping to power wash and apply *Wet & Forget* to brick pavers on Coronado Parkway and Hunter Boulevard.

E. Tree Scaping of Naples

Mr. Felger presented quote number 11431, in the amount of $8,898.00 and quote number 11432 in the amount of $19,180.00, dated October 21, 2025, from Tree Scaping of Naples, Inc.

The quotes will be considered by the Committee at the November 24, 2025, meeting.

XI. COMMITTEE MEMBER COMMENTS

Members noted irrigation restoration, median maintenance and beautification are their priorities for the MSTU.

Paver Maintenance

Vegetation in the triangular paver area in the turn lane between Santa Barbara Boulevard and Golden Gate Parkway requires spraying.

The area is not an MSTU asset. At the August 19, 2025, MSTU meeting, Ms. Lulich noted the Road Maintenance Division would spray the area.

Street Signs

Chair Spencer reported that street signs on Santa Barbara Boulevard, damaged during a hurricane, are not visible at night.

The County has not responded to requests to correct the issue.

Golden Gate Welcome Sign Light

Mr. McGee will recommend a light fixture replacement for the *Welcome to Golden Gate* sign to enhance visibility at night.

XII. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 4:57 P.M.

Patricia Spencer, Chair

The Minutes were approved by the Committee on _____,2025 as presented _____ or as amended ____.

GoldenGateBeautificationMSTU/CollierPTNE

NEXT MEETING: **NOVEMBER 24, 2025 – 4:30 PM**
GOLDEN GATE COMMUNITY CENTER
4701 GOLDEN GATE PARKWAY
NAPLES, FL 34116



GOLDEN GATE M.S.T.U. ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104
November 24, 2025

MINUTES

I. CALL TO ORDER

The meeting was called to order at 4:53 P.M. by Chair Spencer. Attendance was called and a quorum of three was established.

II. ATTENDANCE

Advisory Committee	Patricia Spencer – Chair
	Florence "Dusty" Holmes
	Ron Jefferson
	Open Seat
	Open Seat
Staff	Ellen Sheffey – Interim Director, PTNE (Excused)
	Jeffrey Felger – Project Manager, PTNE
	Rosio Garcia - Operations Analyst, PTNE
Landscape	Mike McGee – Landscape Architect, McGee & Associates
	Joan Cruz – Superior Landscaping & Lawn Services (Excused)
Others	Wendy Warren – Transcription, Premier

III. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was recited.

IV. APPROVAL OF AGENDA

Chair Spencer motioned to approve the Agenda of the Golden Gate MSTU Advisory Committee as presented. Second by Ms. Holmes. Carried unanimously 3 - 0.

V. APPROVAL OF MINUTES – September 16, 2025 and October 21, 2025

Chair Spencer moved to approve the minutes of the September 16, 2025, and October 21, 2025, Golden Gate Beautification MSTU Advisory Committee meetings. Second by Mr. Jefferson. Carried unanimously 3 – 0.

VI. PROJECT MANAGER'S REPORT - QUOTES

Mr. Felger reported:

- Mulch will be installed in January 2026.
- Tamara Gubala's application for the open seat on the Advisory Committee will be considered at the December 16, 2025, meeting.

Quotes

Mr. Felger presented the following quotes for Committee consideration:

A. Contemporary Controls & Communications, Inc.

Contemporary Controls submitted proposals No. 10735, 10736, and 10737, dated November 14, 2025, to install Motorola™ irrigation controllers for the Golden Gate MSTU.

Chair Spencer motioned to approve Contemporary Controls & Communications, Inc. proposal No. 10735, dated November 14, 2025, in the amount of $9,015.73, to install Motorola™ irrigation controllers on Hunter Boulevard and Coronado Parkway. Second by Ms. Holmes. Carried unanimously 3 – 0.

Chair Spencer motioned to approve Contemporary Controls & Communications, Inc. proposal No. 10736, dated November 14, 2025, in the amount of $14,089.73, to install Motorola™ irrigation controllers on Tropicana Boulevard. Second by Ms. Holmes. Carried unanimously 3 – 0.

Chair Spencer motioned to approve Contemporary Controls & Communications, Inc. proposal No. 10737, dated November 14, 2025, in the amount of $9,103.23, to install Motorola™ irrigation controllers on Sunshine Boulevard. Second by Ms. Holmes. Carried unanimously 3 – 0.

B. Tree Scaping of Naples

Tree Scaping of Naples submitted estimate No. 11431, dated October 21, 2025, in the amount of $8,898.00 to trim palm trees on Coronado Parkway, Hunter Boulevard, Tropicana Boulevard and Sunshine Boulevard.

Hardwood trees pruning will be considered in the summer of 2026.

Chair Spencer motioned to approve Tree Scaping of Naples, Inc.'s proposal No. 11431, dated October 21, 2025, in the amount of $8,898.00, to trim palm trees on Coronado Parkway, Hunter Boulevard, Tropicana Boulevard and Sunshine Boulevard. Second by Mr. Jefferson. Carried unanimously 3 – 0.

C. Superior Landscaping

Superior Landscaping submitted a proposal dated November 17, 2025, in the amount of $2,527.64 to pressure wash all pavers on Coronado Parkway, Hunter Boulevard and a small area on Tropicana Boulevard.

Mr. Jefferson motioned to approve Superior Landscape & Lawn Service, Inc's proposal dated November 17, 2025, in the amount of $2,527.64, to pressure wash pavers on Coronado Parkway, Hunter Boulevard, and a small area of Tropicana Boulevard. Second by Chair Spencer. Carried unanimously 3 – 0.

D. Simmonds Electrical of Naples, Inc.

Simmonds Electrical of Naples, Inc. submitted Quote # 2517123, dated October 22, 2025, in the amount of $11,804.97, to furnish and install one complete Lumec pole, reusing the existing concrete pole foundation, and furnishing and installing fuses and fuse holders at the pole's base.

Mr. Jefferson motioned to approve Simmonds Electrical of Naples, Inc.'s proposal dated October 22, 2025, in the amount of $11,804.97, to furnish and install one complete Lumec pole, reusing the existing concrete pole foundation, and furnishing and installing fuses and fuse holders at the pole's base. Second by Chair Spencer. Carried unanimously 3 – 0.

VII. COMMITTEE MEMBER COMMENTS

None

VIII. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 5:10 P.M.

GOLDEN GATE MSTU ADVISORY COMMITTEE

_____

Patricia Spencer, Chair

The Minutes were approved by the Committee on _____,2025 as presented _____ or as amended ____.

GoldenGateBeautificationMSTU/CollierPTNE

NEXT MEETING: **DECEMBER 16, 2025 – 4:30 PM**
GOLDEN GATE COMMUNITY CENTER
4701 GOLDEN GATE PARKWAY
NAPLES, FL 34116

McGee & Associates
Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.
Location: Sunshine Blvd.
Project Manager: Jeffrey Felger, Project Manager II, Collier County Public Transit & Neighborhood Enhancements
Consultant: McGee & Associates
Landscape Contractor: Superior Landscaping
Observation Date: 12/2/2025

Landscape Architect Report: December 2025
Consultant's Representative: Michael A. McGee, rla, isa
Contractor's Representative: Joaquin Pena
Report Date: 12/2/2025
Report No.: 2 (FY-25-26)

AC - Indicates major items recommended to be discussed by Advisory Committee **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED	Yellow - Highlighting indicates maintenance recommendations. Red – Items if not addressed will result in multiple plant loss.
All locations	X	X			Committee has agreed to start a landscape & irrigation renovation design review to fix plant and irrigation coverage issues. All shrub or ground cover plantings listed below should be put on hold until Committee approves renovation plans.	
	X	X			All replacement recommendations are considered on hold due to irrigation pump system not functioning. Normal maintenance issues will continue to be reviewed.	
		X	X	2	All duckbill guy systems on trees need to be reviewed to make sure they are in proper condition.	
		X	X		All areas are heavily water stressed due to irrigation system not functioning. All replacement plantings must be put on hold. Currently report items are being put on hold. A major renovation planting will be required to reestablish median landscapes.	
Median #1		X	X	5	South End: South tip Juniper plants are dead and need to be removed and replaced. Apparent decline would be contributed water stress, but spider mites and/or a blight may also have contributed. (4) 3 gal. Juniper parsonii are recommended to fill-in missing plants.	
		X	X	16	North End: The Blueberry flax lily bed has lost over 50% of the plants. It is recommended at this point to remove the remaining flax lilies and renovate the bed with a different plant. Install (52) 2 gal., Zamia pumila – Coontie on 3 ft. centers 3 ft. off tree trunks, back of curbs and turf edges.	
		X	X	18	North end.	**M&A 6/5/25:** North end: Previous replacement Sabal palm has died and needs to be replaced. Match existing. This type of palm will require (2) bubblers and additional hand watering to survive its planting.
		X	X	19	North end: Juniper parsonii need to be replaced. (13) Juniper parsonii 3 gal. size are recommended for replacement	
		X	X	19	Sand cordgrass bed: The bed has plants that are dead or missing. (6) Sand cordgrass, 3 gal. size are recommended to fill-in replacement.	
		X	X	19	South end: Juniper replacement plants have declined and/or dead due to sever water stress. (9) 3 gal. Juniper parsonii are recommended to fill-in missing plants.	
		X	X	19	Middle Bed: Yellow African iris plants are declined and/or dead. (4) 1 gal. Yellow African Iris are recommended to fill-in missing plants..	
Median #2		X		13	At address 2224: A previously planted Tabebuia tree in the turf area at some point was removed and not replaced.	

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					(1) 65 gal. Floss Silk (Ceiba Speciosa), 11'-13' Ht., 3.5 Cal., 5'-6' Spr. (or, 36" dia. B&B) is recommended for replacement.	
		X	X	19	South end: Area of previous auto damaged Juniper need to be renovated. Remove damaged or dead plants. (26) 3 gal. Juniper parsonii in double row	
		X	X	20	At address 2248: Renovation Yellow African Iris have declined and need to be replaced. Also: remove volunteer Blueberry Flax plants in Iris. (10) 3 gal. Yellow African Iris are recommended to fill-in missing plants.	**M&A 5/7/24:** Remove volunteer Frangi Pangi tree in Iris bed.
		X	X	19	At address 2184: (1) Tabebuia Ipe has been removed. (1) 65 gal. Tabebuia Ipe tree, 11'-13' Ht., 3.5 Cal., 5'-6' Spr. (or, 36" dia. B&B) is recommended for replacement.	**M&A 9/5/23:** The tree has been blown over by the recent winds. ~~The north duckbill anchor was installed about 12" not installed to its recommended 24" depth and as a result the tree pulled the anchor up.~~
		X	X	19	At address 2184: The Bougainvillea silhouettes are off color and are stunted in growth. Additional fertilization is highly recommended. Mulch should be pulled away from being in contact with the plant trunks.	**M&A 2/8/23:** (6) plants have declined and/or missing and need to be replaced. 3 gal. size. **M&A 4/4/23:** Plant count is now up to (10) plants and area is dry.
		X	X	19	At address 2160: (1) Tabebuia tree trunk has been girdled by staking straps. The girdling location has healed over but will remain a weak point for the main trunk. At this location an included bark branch union is present. Reduction of this branch is recommended to reduce weight.	
		X	X	19	North End at 2052: Juniper parsoni have large amount of dead and brown foliage which appears to be result of insect (e.g. spider mites) or fungal disease. Contractor should review to treat issue and prune out dead foliage.	**M&A 5/3/22:** Contractor determined Juniper had a Blight disease and bed has been treated. Approx. 39-40 plants involved. **M&A 12/6/22** (14) 3 gal. Juniper parsoni needed to finish replacements.
Median #3 - Pump Station Location- 5 hp, 6" well, VFD		X	X	13	At address 1944: Install (2) Dwarf Bougainvillea 'Helen Johnson' 3 gal. size.	
Median #4		X	X		No major issues observed.	
Median #5		X	X	19	(20+/-) renovation Blueberry flax plants have declined and need to be replaced. Issue appears to irrigation coverage. Install (20) 1 gal. Blueberry flax.	**M&A 6/4/24:** Based upon additional plants dying it is recommended the remaining Blueberry Flax lilies be removed and the area planted with Zamia. (25) 2 gal., Zamia pumila – Coontie on 3 ft. centers 3 ft. off tree trunks, back of curbs and turf edges.
Median #6		X	X	6	At address 1790 or South End: Juniper plantings have sustained vehicular damage as well as water stress causing approximately 50% of the Juniper plants to have dead foliage or entire plants are dead. It is recommended to remove all damaged and declined plants and then review for replacements or renovation.	
		X	X	8	At address 1740-1730: One Golden Tabebuia tree, flagged with white tape, has sever trunk issues due to unhealed previous pruning cuts and removal and replacement is recommended. Replace with Pink Trumpet tree, Handroanthus impetiginosus 11'-13' Ht., 3.5 Cal., 5'-6' Spr., 36" dia. B&B or 65 Gal. size container.	
		X	X	12	At address 1750 & 1760: ~~Prune back existing Bougainvillea to a 24-inch diameter.~~ Install (8) Dwarf Bougainvillea 'Helen Johnson' 3 gal. size.	
		X	X	18	At address 1720: Water stress has caused the decline of Iris plants.	**M&A 6/4/24:** Remove volunteer Blueberry Flax lilies.

GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location: Sunshine Blvd.** **Report Date:** 12/2/2025 **Report No.:** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					(20) 3 gal. Yellow African iris plants.	
		X	X	28	At address 1740: The Bougainvillea silhouettes are off color and are stunted in growth. Plants should be reviewed for irrigation coverage and additional fertilization. Mulch should be pulled away from being in contact with the plant trunks.	**M&A 4/4/23:** Bougainvillea plants have declined and/or dead. Recommended to remove all. (37) 3 gal. Bougainvillea 'Silhouettes'
18th Place SW Median		X	X	2	Bougainvillea needs to be pruned and vines removed.	
		X		4	Median did not get mulched.	
	X	X			Recommendation: Remove all surface vegetation (Bougainvillea shrubs) and lower grade 3-inches. Install (7) 3 gal., Aechmea "Raspberry Bromeliad Mulch entire median with 3-inch depth of Rice Rock mulch to include filter cloth below Rice Rock mulch.	**M&A 6/4/24:** With rainy season approaching it is recommended preparations begin to renovate median as listed. M&A 11/5/24 with rainy season ending any replanting's will require truck watering at planting and for a period of establishment.
18th Ave. S.W. Median		X		4	Median did not get mulched. Recommend mulching	
	X	X			Recommendation: Remove all surface vegetation and lower grade 3-inches. Install (8) 3 gal., Aechmea "Raspberry Bromeliad Mulch entire median with 3-inch depth of Rice Rock mulch to include filter cloth below Rice Rock mulch.	**M&A 6/4/24:** With rainy season approaching it is recommended preparations begin to renovate median as listed. **M&A 11/5/24:** with rainy season ending any replanting's will require truck watering at planting and for a period of establishment.
					QUARTERLY ADDRESSED	
Accent/Street Lighting		X			Lights at north end of median 1 and south end of median 2 were on around 8:30 AM.	
	X				It is recommended all lights be reviewed for cleaning or replacements if needed. Some fixtures appear to have hazy and/or dirty lenses which reduce light levels.	
Lighting Electric Meters & Irrigation Controller Electric Source Locations					Lighting Electric Meter 2271 Sunshine Blvd., 1 SUN, Alley off 23rd Ave. SW Lighting Electric Meter & Irrigation Controller Electric, 1995 Sunshine Blvd., 2 SUN, Alley off 20th PL. SW Lighting Electric Meter 4642 18th Pl. SW, 3 SUN, North R/W	
Fertilizations:			X		Attached is the FY25-26 fertilization schedule	
Irrigation:		X			Quote presented 11/18/25 meeting to change irrigation controller back to Motorola to be consistent with County's Central Control System.	
		X	X		Previous month water use total per WeatherTrak controller estimate 0 gallons. Apparently pump station is still offline. Pump station is on site not confirmed it is operational.	

McGee & Associates
Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location: Sunshine Blvd.** **Report Date:** 12/2/2025 **Report No.:** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS

GOLDEN GATE MSTU FY 25-26 RECOMMENDED FERTILIZATION SCHEDULE - ALL ROADWAYS

Plant Type	Turf / St. Augustine	Palm Trees	Shrubs & Grn. Cover Beds	Perennial Peanut
Month / Areas	(72,234 S.F., Estimated)		(30,000 S.F., Estimated)	(9,000 S.F., Estimated)
January	16-0-8 (with trace elements) 4 lb. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
Febuary				
March		Place order for March Applications		
April	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	0-0-22-22S-11Mg 4.6 lbs. per 1000 S.F. (50 lbs.(1-50 lb. bag)
May	Iron plus Soil Acidifier	Place order for June Applications	Iron plus Soil Acidifier	
June	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
July		Place order for August Applications		
August		0-0-22-22S-11Mg (16) Paurotis palms: 3 lbs. per palm (1-50 lb. bag)		0-0-22-22S-11Mg 4.6 lbs. per 1000 S.F. (50 lbs.(1-50 lb. bag)
September		Place order for October Applications		
October	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
November				
December		Place order for January Applications		

Canopy & Palm trees: (e.g. Sabal palmns, Live Oaks, Crape Myrtles, Silk Floss, Orchid, Holly, Handroanthus spp. (Tabebuia) are not to receive any additional fertilizer unless it is a new or replacement planting.

Optional: At maintenance Consultants Recommendation. Blooming Plants - Bougainvillea, Blueberry Flax Lily, African Iris

Optional: Add to pest and/or disease control sprayings for shrubs and turf: Ferromec AC 15-0-0 plus 6% iron, 3% sulfur @ 1.5 gal./100 gal. H2O

Do not apply to any flower buds or blossoms in flower.

Contractor shall field measure turf and plant areas in order to determine required quanities of product needed per application.

- Indicates months the contractor is to request Project Manager to place fertilizer orders for next application month

- Indicates period of no Nitrogen applications.

McGee & Associates
Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.
Location: Coronado Parkway & Hunter Blvd.
Project Manager: Jeffrey Felger, Project Manager II, Collier County Public Transit & Neighborhood Enhancements
Consultant: McGee & Associates
Landscape Contractor: Superior Landscaping
Observation Date: 12/2/2025

Landscape Architect Report: December 2025
Consultant's Representative: Michael A. McGee, rla, isa
Contractor's Representative: Joaquin Penz
Report Date: 12/2/2025
Report No.: 2 (FY-25-26)

AC - Indicates major items recommended to be discussed by Advisory Committee **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED	Yellow - Highlighting indicates maintenance recommendations. Red – Items if not addressed will result in multiple plant loss.
Coronado Pkwy. - All locations		X	X		Due to the desir not to continue to use perennial peanut "Golden Glory" locations listed below for replacements should be on hold until locations are reviewed again for alternate plant replacements and the quantities required established.	
		X	X	6	It is recommended that any future herbicide spray treatments with handheld sprayers use a colored tracer in the mix.	
		X	X	7	The irrigation coverage of the perennial peanut needs to be reviewed in Median #3, 4 east & west ends, 5 east & west ends, 6 east & west ends, 10 east & west ends, 11 east & west ends, and 12.	
	X	X			Recommended all paver areas be pressure washed and treated with "Wet & Forget" mold treatment spray.	**M&A 12/2/25:** Quote presented 11/18/25 meeting. Application delayed until it is closer to rainy season.
		X		2	Recommend reviewing all valve locations for green reflective markers that are missing.	
		X		2	Median end numbering needs to be repainted.	
Median #1- Pavers		X			Pressure cleaning recommended	
Median #2- Pavers		X			Pressure cleaning recommended	
Median #3		X	X	6	Perennial peanut ~~bed contains weeds and~~ there is a large area of missing plants. (240) 1 gal. Golden Glory are recommended to fill-in missing plants.	
Median #4		X	X	6	East end: Perennial peanut plantings are missing plants. (99) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	6	Middle area: Yellow African Iris are dead or missing. (4) 3 gal. Yellow African Iris are recommended to fill-in missing plants	
		X	X	6	West end: Perennial peanut plantings are missing plants. (54) 1 gal. Golden Glory are recommended to fill-in missing plants.	
Median #5		X	X	6	Perennial peanut plantings are missing plants. (64) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	6	West end: Alexander palm needs to be removed and replaced. (1) 10 ft. clear trunk Alexander palm recommended for replacement.	
Median #6		X	X	5	East end: FPL concrete streetlight pole was hit by vehicle. ~~Remove concrete debris~~. No apparent damage to plants, but review irrigation may be needed.	
		X	X	6	East end: Perennial peanut plantings are missing plants. (10) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	7	A previous storm damaged Alexander palm that was removed and the stump left behind needs to be replaced. Stump removal and replanting is recommended. (1) 10 ft. clear trunk Alexander palm recommended for replacement.	

McGee & Associates
Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location:** Coronado Pkwy. & Hunter Blvd. **Report Date:** 12/2/2024 **Report No.:** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
Median #7		X	X		No major issues observed	
Median #8		X	X		No major issues observed	
Median #9 - Pavers		X	X		Pressure cleaning recommended	
Median #10		X	X	6	West end: Perennial peanut plantings are missing plants. (150) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	6	West end: African iris plantings contain weeds, with 15 plants missing. (15) 3 gal. Yellow African Iris are recommended to fill-in missing plants.	
		X	X	8	East end: (200) 1 gal. Golden Glory are recommended to fill-in missing plants.	
Median #11 Bridge		X	X	2	Inside lane median guardrail was hit by vehicle. Recommend reviewing plantings and irrigation after repair.	**M&A 12/2/25:** Observed guardrail starting to be repaired.
		X	X	6	East end: (20) 1 gal. Golden Glory are recommended to fill-in missing plants.	
Median #12		X	X	5	West end: (20) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	13	Middle of median: Alexander palm has severe trunk fugus damage due to a previous wound and needs to be removed, flagged with white ribbon. (1) 10 ft. clear trunk Alexander palm recommended for replacement.	
Median #13		X	X		No major issues observed	
Median #14		X	X	21	Repair 12 L.F. of paver border, remove & replace soldier course edge to include compacted base and mortar edging. Base shall extend 12-inches beyond current edge of pavers.	
Hunter Blvd. - All locations		X			Median end numbering needs to be repainted.	
	X	X			Recommended all paver areas be pressure washed and treated with “Wet & Forget” mold treatment spray.	
Median #1		X	X		No major issues observed	
Median #2		X	X	7	North end.	**M&A 6/5/25:** North end: Recent rains have allowed liriope plants to regrow. (~~25~~ 6) Recently planted Liriope plants are in decline, dead, or missing.
Median #3		X	X	7	South end:	**M&A 6/5/25:** South end: Recent rains have allowed liriope plants to regrow. (~~6~~ 2) Recently planted Liriope plants are in decline, dead, or missing.
		X	X	7	North end: (50+/-) perennial peanut are missing. (50) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	7	At address 2340: Bougainvillea Miss Alice (white) are in decline, dead, or missing. (7) 3 gal. Bougainvillea Miss Alice (white) are recommended to fill-in missing plants	
		X	X	7	At address 2330: Bougainvillea Miss Alice (white) are in decline, dead, or missing. (9) 3 gal. Bougainvillea Miss Alice (white) are recommended to fill-in missing plants.	
Median #4		X	X	5	North end: The last Alexander palm to the south was previously removed. It is recommended to replant at this time. (1) 10 ft. clear trunk Alexander palm.	
		X	X	7	At address 2300: (35+/-) perennial peanut are missing. (35) 1 gal. Golden Glory are recommended to fill-in missing plants.	

McGee & Associates
Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location:** Coronado Pkwy. & Hunter Blvd. **Report Date:** 12/2/2024 **Report No.:** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
		X	X	7	North end: ~~Also the previous existing perennial peanut plants that were removed are re-sprouting and need to be spray with herbicide.~~	**M&A 6/5/25:** North end: Recent rains have allowed liriope plants to regrow. ~~Bed is also dry.~~ (~~13~~ 10) Recently planted Liriope plants are in decline, dead, or missing.
Median #5 **Pump station –** Median #5, 7.5 hp, 8" well feeds Hunter & Coronado, Hydropoint Controller in median		X	X	7	South end: Perennial peanuts are over 50% missing. Recommend remove remainder and replant - seven staggered rows, offsets as follows: 3-4 feet off tree trunks, 2-feet from back of curb & 3-feet off paver edges. (120) Liriope 'Big Blue', 18" o.c. in 1 gal. size. (re-verify rows & count)	
Median #6		X	X	6	South end:(~~20~~ 35+/-) perennial peanut are missing. (35) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	11	At address 2018: (1) Jatropha tree is missing. (1) 6 ft. Jatropha tree overall ht. multi-stem plant.	
Median #7		X	X	7	At address 1991: Fire burnt one Iris.	
Median #8		X	X		No major issues observed	
		X	X	6	Middle area: (10) Muhly grass are missing. (10) 3 gal. Muhly grass are recommended to fill-in missing plants.	
		X	X	5	East end: The recently planted perennial peanut look very bad. (25+/-) are in decline, dead, or missing. ~~Some foliage is dwarfed which is an indicator of too much herbicide others are very yellow which could be over watering related or nutritional. Application of 0-0-22-22S-11mg fertilizer is highly recommended.~~	**MA 6/03/25:** Based upon the amount of missing and/or dead perennial peanut it is recommended this area of the median be renovated as follows: (159) Liriope 'Big Blue', 18" o.c. in 1 gal. size. New plantings are to have offsets as follows: 3-4 feet off tree trunks, 2-feet from back of curb & 3-feet off paver edges (36) 3 gal. Muhly grass plants between the Oak tree and the Bougainvillea shrubs. If not renovated (121) 1 gal. Golden Glory perennial peanut needed to replace missing.
Median #9		X	X	3	West end: Alexander palm has no center frond spear. Flagged for removal and replacement. (1) 10 ft. clear trunk Alexander palm recommended for replacement.	
				6	East end:(25+/-) perennial peanut are missing. Fill in with one gal. size Golden Glory. (25) 1 gal. Golden Glory are recommended to fill-in missing plants.	
		X	X	7	West end:(~~25~~ 57+/-) perennial peanut are missing. Fill in with one gal. size Ecoturf. (57) 1 gal. Ecoturf are recommended to fill-in missing plants.	
Median #10		X	X	3	(38+/-) perennial peanut are missing. (38) 1 gal. Golden Glory are recommended to fill-in missing plants.	
Median #11		X	X		No major issues observed	
Median #12		X	X	23	Median: Recommend repair of 12 L.F. of paver border, remove & replace soldier course edge to include compacted base and mortar edging. Base shall extend 12-inches beyond current edge of pavers.	
					QUARTERLY ADDRESSED	
Fertilization:		X	X		See attached FY 25-26 fertilization schedule, If October fertilizer did not get applied then it is recommended to apply as soon as possible.	

McGee & Associates
Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location:** Coronado Pkwy. & Hunter Blvd. **Report Date:** 12/2/2024 **Report No.:** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
General Irrigation:		X			Report indicate controller is running application days that are not consistent with Collier County Water Restrictions. Roadway are permitted to run all weekdays except Friday. Application setting should be set to run three days a week every other day. Collier County water restriction settings are Odd addresses run Tuesday, Thursday & Sunday, even numbers addresses run Monday, Wednesday & Saturday.	
					Previous month water use total per WeatherTrak controller estimate 218,952 gallons.	

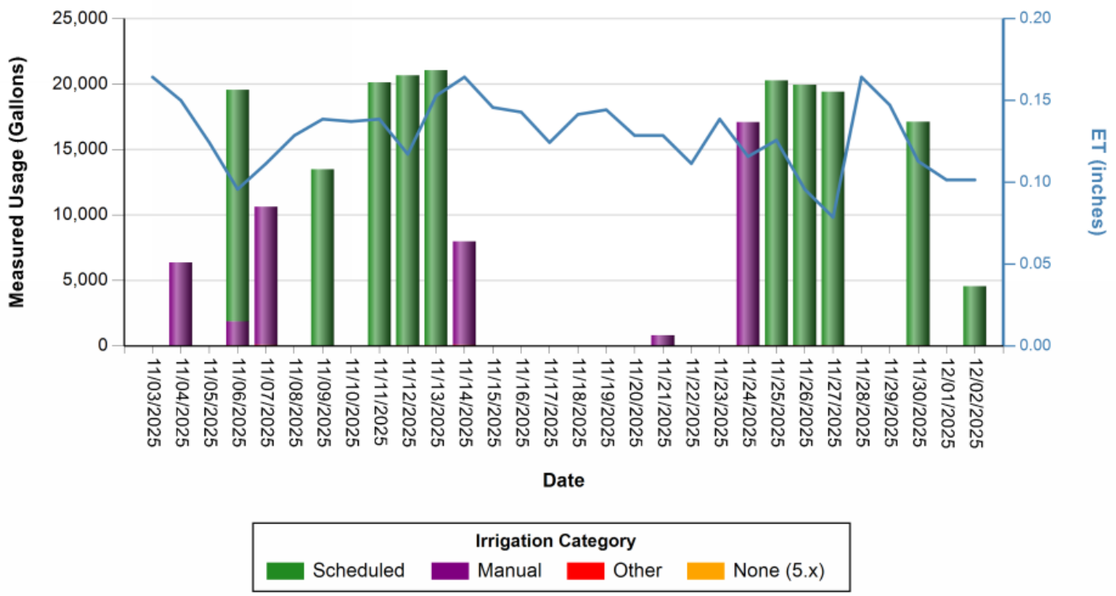
Collier County
Site: Golden Gate MSTU
09105378 - 2003 Hunter Coronado

Single Controller
Measured Usage History Report

WeatherTRAK

Measured Usage per Day: 2003 Hunter Coronado

11/03/2025 to 12/02/2025



GOLDEN GATE MSTU FY 25-26 RECOMMENDED FERTILIZATION SCHEDULE - ALL ROADWAYS

Plant Type	Turf / St. Augustine	Palm Trees	Shrubs & Grn. Cover Beds	Perennial Peanut
Month / Areas	(72,234 S.F., Estimated)		(30,000 S.F., Estimated)	(9,000 S.F., Estimated)
January	16-0-8 (with trace elements) 4 lb. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
Febuary				
March		Place order for March Applications		
April	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	0-0-22-22S-11Mg 4.6 lbs. per 1000 S.F. (50 lbs.(1-50 lb. bag)
May	Iron plus Soil Acidifier	Place order for June Applications	Iron plus Soil Acidifier	
June	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
July		Place order for August Applications		
August		0-0-22-22S-11Mg (16) Paurotis palms: 3 lbs. per palm (1-50 lb. bag)		0-0-22-22S-11Mg 4.6 lbs. per 1000 S.F. (50 lbs.(1-50 lb. bag)
September		Place order for October Applications		
October	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
November				
December		Place order for January Applications		

Canopy & Palm trees: (e.g. Sabal palmns, Live Oaks, Crape Myrtles, Silk Floss, Orchid, Holly, Handroanthus spp. (Tabebuia) are not to receive any additional fertilizer unless it is a new or replacement planting.

Optional: At maintenance Consultants Recommendation. Blooming Plants - Bougainvillea, Blueberry Flax Lily, African Iris

Optional: Add to pest and/or disease control sprayings for shrubs and turf: Ferromec AC 15-0-0 plus 6% iron, 3% sulfur @ 1.5 gal./100 gal. H2O

Do not apply to any flower buds or blossoms in flower.

Contractor shall field measure turf and plant areas in order to determine required quanities of product needed per application.

- Indicates months the contractor is to request Project Manager to place fertilizer orders for next application month

- Indicates period of no Nitrogen applications.

McGee & Associates

Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Landscape Architect Report:** December 2025
Location: Tropicana Blvd.
Project Manager: Jeffrey Felger, Project Manager II, Collier County Public Transit & Neighborhood Enhancements
Consultant: McGee & Associates **Consultant's Representative:** Michael A. McGee, rla, isa
Landscape Contractor: Superior Landscaping **Contractor's Representative:** Joaquin Pena
Observation Date: 12/2/2025 **Report Date:** 12/2/2025 **Report No.:** 2 (FY-25-26)

AC - Indicates major items recommended to be discussed by Advisory Committee **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor.

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED	Yellow - Highlighting indicates maintenance recommendations. Red – Items if not addressed will result in multiple plant loss.
All locations:		**X**	**X**	5	Median numbers need to be repainted at the ends of the medians.	
	X	**X**			Recommended all paver areas be pressure washed and treated with "Wet & Forget" mold treatment spray.	**M&A 12/2/25:** Quote presented 11/18/25 meeting. Application delayed until it is closer to rainy season.
Median #1		**X**	**X**		No major issue observed.	
Median #2		**X**	**X**	23	The existing quick coupler valve box is broken and deformed and needs to have the top box and lid removed and new ones installed.	
Pedestrian shelter (31st Ave. SW)		**X**			Pedestrian shelter area is to be removed. No major issue observed.	
Median #3 Bridge		**X**	**X**	5	South end: Remove Blueberry Flax lily regrowing in Iris & Juniper	
		X	**X**	15	North end: On tip of median 3 Juniper have been run over. Removal and replacement is recommended. (3) Juniper parsonii 3 gal. size.	
Median #4		**X**	**X**	24	At address 2930: Recommend removing two Crape myrtles install (2) Crape Myrtle 'Natchez', White, 30 gal., 2" cal., 8'-10' ht., 5'-6' spr., Multi-stem (4 min.). Will require (1) bubbler location with (2) adjustable flood bubblers per tree.	
Pedestrian Shelter (28th Ave. SW)		**X**			There are four Sabal palms within the right-of-way just west of the shelter that are the MSTU's previous planting. It is recommended these palms be added into the next tree trimming cycle.	
		X			Pavers should be cleaned	
Median #5		**X**	**X**	22	At address 2672: Holly tree has totally defoliated, and main trunk bark is cracking. Decline would contribute to mature age of 16+/- years and past site conditions. Recommendation is to schedule removal by excavation and replant with ~~Ilex x attenuate – East Palatka Holly 10' Ht., 3' spr., 3.5" cal. in 65 gal. container~~	**M&A 8/5/25:** Recommend changing tree type from holly to Crape Myrtle 'Muskogee', Pink, 30 gal., 2" cal., 8'-10' ht., 5'-6' spr., Multi-stem (4 min.)
		X	**X**	23	At address 2600-2582: Holly tree has totally defoliated, root system is rotting, main trunk has severe rot due to previous pruning wounds not compartmentalizing and healing over. Recommendation is to schedule removal by excavation and replant with ~~Ilex x attenuate – East Palatka Holly 10' Ht., 3' spr., 3.5" cal. in 65 gal. container~~	**M&A 8/5/25:** Recommend changing tree type from holly to Crape Myrtle 'Muskogee', Pink, 30 gal., 2" cal., 8'-10' ht., 5'-6' spr., Multi-stem (4 min.)
		X	**X**	22	At address 2520: ~~Remove volunteer Crape myrtles growing in Bougainvillea bed.~~ **- UNDER REVIEW -**	**M&A 11/7/22:** it is recommended due to the amount of shade over this planting location that the existing Bougainvillea and Crape myrtle sprouts be removed, and the area planted with Bromeliads. (45) Neoregelia carolinae 'Tricolor', 6" pots, 24" o.c.+/-, first row 4' off back of curb. **M&A 9/5/23:** It appears carpe myrtle sprouts have been treated with herbicide.

McGee & Associates
Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location:** Tropicana Blvd. **Report Date:** 12/2/2025 **Report No.:** 2 (FY-25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
						M&A211/4/25: Renovation planting listed above is still recommended.
		X		2	At address 2600: Recommend Oak, 18" caliper, 50% damaged in main trunk from broken off large branch be monitored yearly.	**M&A 6/6/23:** This Oak is adjacent to the declined Holly tree at address 2701 that is being recommended for removal and replacement. It is recommended that this Oak tree be coordinated for removal by excavation and replace with Quercus virginiana 'Cathedral' 11'-13' ht., 3.5 cal., 5' spr. 36" dia. root ball or 65 gal. container.
Median #6 (Pavers only)		**X**			No major issue observed. Recommended pavers be pressure washed and treated with "Wet & Forget" mold treatment spray.	
					QUARTERLY ADDRESSED	
Accent/Street Lighting		**X**		2	Light pole #4 totally damaged in accident. Pole and foundation will need to be addressed. (West Alley off 28th Ave. SW Lighting Disconnect & Sensor)	**M&A 12/2/25:** Quote presented 11/18/25 meeting.
		X			At 7:30 AM light fixtures in median 6 & north end of median 5 were on.	
		X		12	Multiple accent lighting fixtures appear to have corroded metal edges and hazy and/or dirty lenses which reduce light levels. It is recommended all lights be reviewed for cleaning or replacements if needed.	
		X		12	Median #1 south light pole fixture has been turned out of alignment with the median.	
Lighting Disconnect & Sensor Locations					East R/W between 13th Ave. & PL. Lighting Disconnect & Sensor West Alley off 28th Ave. SW Lighting Disconnect & Sensor West R/W in Alley between G.G. Pkwy. & 26th PL. SW, Lighting Disconnect & Sensor West R/W at corner of 30th PL. SW & Tropicana Lighting Disconnect & Sensor	
Fertilizations: V		**X**	**X**		Attached is the recommended FY 25-26 fertilization schedule, If October fertilizer did not get applied then it is recommended to apply as soon as possible.	
Irrigation:	**X**	**X**			Quote presented 11/18/25 meeting to change irrigation controller back to Motorola to be consistent with County's Central Control System.	
		X			Previous month water use total per WeatherTrak controller estimate332,423 gallons.	

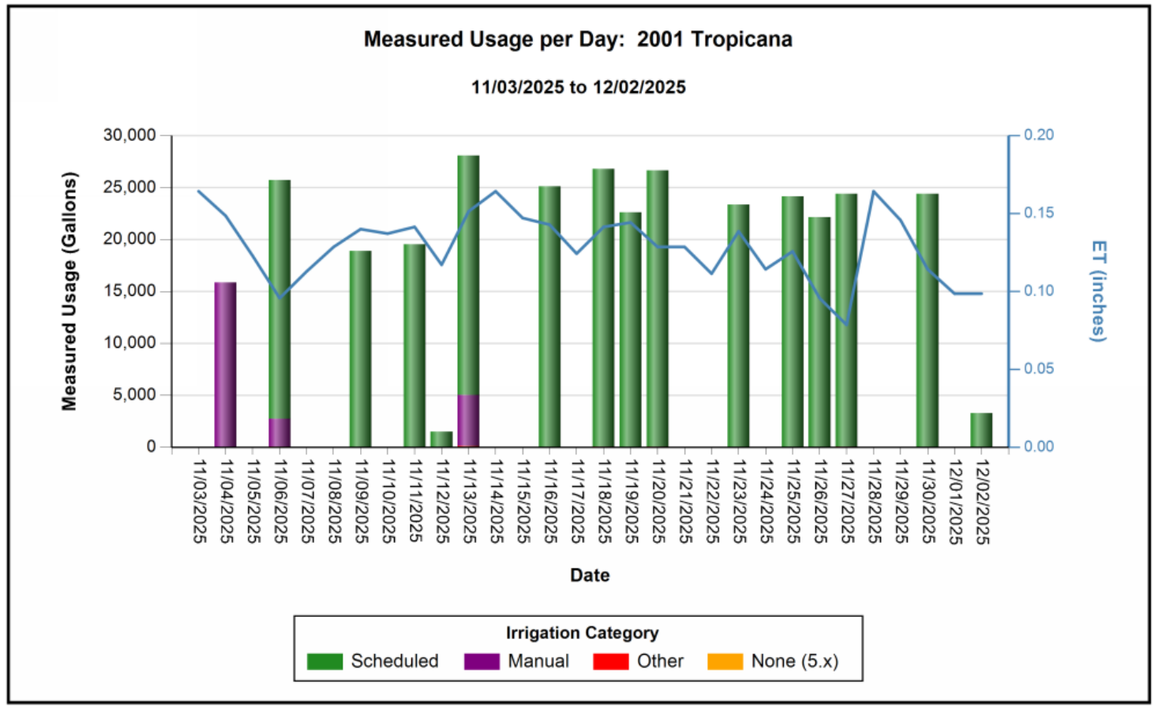
GOLDEN GATE BEAUTIFICATION, M.S.T.U. **Location:** Tropicana Blvd. **Report Date:** 12/2/2025 **Report No.:** 2 (FY-25-26)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS

Collier County
Site: Golden Gate MSTU
09012040 - 2001 Tropicana

Single Controller
Measured Usage History Report

WeatherTRAK



GOLDEN GATE MSTU FY 25-26 RECOMMENDED FERTILIZATION SCHEDULE - ALL ROADWAYS				
Plant Type	**Turf / St. Augustine**	**Palm Trees**	**Shrubs & Grn. Cover Beds**	**Perennial Peanut**
Month / Areas	**(72,234 S.F., Estimated)**		**(30,000 S.F., Estimated)**	**(9,000 S.F., Estimated)**
January	16-0-8 (with trace elements) 4 lb. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
Febuary				
March		Place order for March Applications		
April	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	0-0-22-22S-11Mg 4.6 lbs. per 1000 S.F. (50 lbs.(1-50 lb. bag)
May	Iron plus Soil Acidifier	Place order for June Applications	Iron plus Soil Acidifier	
June	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
July		Place order for August Applications		
August		0-0-22-22S-11Mg (16) Paurotis palms: 3 lbs. per palm (1-50 lb. bag)		0-0-22-22S-11Mg 4.6 lbs. per 1000 S.F. (50 lbs.(1-50 lb. bag)
September		Place order for October Applications		
October	16-0-8 (with trace elements) 4 lbs. per 1000 S.F. (288 lbs. (6-50 lb. bags)	8-0-12-4 Mg-90 day release (116) Alexander palms: 4 lbs. per palm, (16) Paurotis palms: 10 lbs. per palm, (3) Foxtail palms: 5 lbs. per palm (13- 50 lb. bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (6 - 50 lb.bags)	8-0-10 Ultra (Florikote Collier blend) 15 lbs. per 1000 S.F. (4 - 50 lb.bags)
November				
December		Place order for January Applications		
Canopy & Palm trees: (e.g. Sabal palmns, Live Oaks, Crape Myrtles, Silk Floss, Orchid, Holly, Handroanthus spp. (Tabebuia) are not to receive any additional fertilizer unless it is a new or replacement planting.				
Optional: At maintenance Consultants Recommendation. Blooming Plants - Bougainvillea, Blueberry Flax Lily, African Iris				
Optional: Add to pest and/or disease control sprayings for shrubs and turf: Ferromec AC 15-0-0 plus 6% iron, 3% sulfur @ 1.5 gal./100 gal. H2O				
Do not apply to any flower buds or blossoms in flower.				
Contractor shall field measure turf and plant areas in order to determine required quanities of product needed per application.				
	- Indicates months the contractor is to request Project Manager to place fertilizer orders for next application month			
	- Indicates period of no Nitrogen applications.			

Golden Gate M.S.T.U.
Fund 1621
December 16, 2025

	FY-25	Vendor	Item	PO#	Budget	Commitments	Expenditures	Available
1	MILLAGE COLLECTED & INTEREST		MSTU Revenues		$ (775,000.00)	$ -	$ (614,460.08)	$ (160,539.92)
2	CARRY FORWARD		Unexpended Prior Year Funds		$ (2,538,938.40)	$ -	$ -	$ (2,538,938.40)
	ALL REVENUES				**$ (3,313,938.40)**	**$ -**	**$ (614,460.08)**	**$ (2,699,478.32)**
		McGee & Associates	Landscape Architect (FY-25)	4500234204		$ 8,472.70	$ -	
3	ENG. FEES & OTHERS (631403)				$ 35,000.00	$ 8,472.70	$ -	$ 26,527.30
4	INDIRECT COST REIMBURSE (634970)	Collier County	Indirect Cost	Direct Pay	$ 4,900.00	$ 2,450.00	$ 2,450.00	$ -
		Superior Landscaping & Maintenance		4500241695		$ 60,000.00	$ -	
5	LANDSCAPE INCIDENTALS (634990)				$ 50,000.00	$ 60,000.00	$ -	$ (10,000.00)
		Superior Landscaping & Maintenance		4500241695		$ 168,321.97	$ 34,472.70	
6	OTHER CONTRACTUAL (634999)				$ 224,100.00	$ 168,321.97	$ 34,472.78	$ 21,305.25
		Tree Scaping	Tree & Palm - Pruning	4500241163		$ 40,000.00	$ -	
		Naples Electric Motor Works	Pump Station Services			$ -	$ -	
7	OTHER CONTRACTUAL (639990)				$ 50,000.00	$ 40,000.00	$ -	$ 10,000.00
8	ELECTRICITY (643100)	FPL	Electricity	4700005322	$ 3,500.00	$ 3,008.66	$ 691.34	$ (200.00)
9	INSURANCE GENERAL(645100)	Collier County	Insurance	Direct Pay	$ 600.00	$ 600.00	$ -	$ -
	BUILDING RM							
12	SPRINKLER SYSTEM(646311)	SiteOne	Irrigation Parts & Pumps		$ 10,000.00	$ 11,714.25	$ 1,635.75	$ (3,350.00)
13	MULCH(646318)	Southeast Spreading			$ 25,000.00	$ 23,500.00	$ -	$ 1,500.00
		Simmonds Electrical	Electrical Services			$ 4,440.00	$ 560.00	$ -
14	LIGHTING MAINTENANCE(646451)				$ 5,000.00	$ 4,440.00	$ 560.00	$ -
15	LICENSE & PERMITS(649010)				$ 2,000.00	$ -	$ -	$ 2,000.00
		Premier Staffing	Transcription	4500242472		$ 3,500.00	$ -	
		Naples Christmas Lighting DBA Sight I	Holiday Decorations	4500242578		$ 3,500.00	$ -	
16	OTHER MISCELLANEOUS (649990)				$ 5,000.00	$ 7,000.00	$ -	$ (2,000.00)
17	OFFICE SUPPLIES (651110)				$ -	$ -	$ -	$ -
18	COPYING CHARGES(651210)	J.M. Todd	Copier CPC	4500241387	$ 200.00	$ 133.59	$ 16.41	$ 50.00
19	FERT HERB CHEM(652310)				$ 5,000.00	$ -	$ -	$ 5,000.00
20	OTHER OPERATING (652990)				$ 500.00	$ -	$ -	$ 500.00
21	**OPERATING EXPENSES**				**$ 420,800.00**	**$ 329,641.17**	**$ 39,826.28**	**$ 51,332.55**
22	PTNE STAFF & DIVISION OVERHEAD (911011)				$ 69,000.00	$ -	$ -	$ 69,000.00
23	PROPERTY APPRAISER (930600)				$ 6,200.00	$ -	$ 1,391.23	$ 4,808.77
24	TAX COLLECTOR (930700)				$ 15,500.00	$ -	$ 12,539.21	$ 2,960.79
25	**COUNTY OVERHEAD**				**$ 90,700.00**	**$ -**	**$ 13,930.44**	**$ 76,769.56**
26		Agricultural Serv International	Irrigation Pump Sunshine Blvd	4500238759		$ 31,738.40	$ -	
27	IMPROVEMENTS GENERAL (763100)				$ 2,808,938.40	$ 31,738.40	$ -	$ 2,777,200.00
28	**CAPITAL PROJECTS**				**$ 2,808,938.40**	**$ 31,738.40**	**$ -**	**$ 2,777,200.00**
28	**ALL EXPENSES**				**$ 3,320,438.40**	**$ 361,379.57**	**$ 53,756.72**	**$ 2,905,302.11**
29	**FY-26 BUDGET GRAND TOTAL**		= ALL REVENUES - ALL EXPENSES		**$ 6,500.00**	**$ 361,379.57**	**$ (567,960.14)**	**$ 206,580.57**

516,253,177	FY 13 Final Taxable Value	7.8%
533,888,677	FY 14 Final Taxable Value	3.4%
575,541,732	FY 15 Final Taxable Value	7.8%
611,031,317	FY 16 Final Taxable Value	6.2%
673,743,701	FY 17 Final Taxable Value	10.3%
749,340,700	FY 18 Final Taxable Value	11.2%
813,136,298	FY 19 Final Taxable Value	8.5%
885,583,987	FY 20 Final Taxable Value	8.9%
987,248,891	FY 21 Final Taxable Value	11.5%
1,067,233,321	FY 22 Final Taxable Value	8.1%
1,214,827,173	FY 23 Final Taxable Value	13.8%
1,351,201,209	FY 24 Final Taxable Value	11.2%
$1,473,376,239	**FY 25 Gross Taxable Value**	

+9.1% Average

Total Available Balance	**$ 2,905,302.11**
Plus Commited And Not Spent	**$ 361,379.57**
Estimated Cash	**$ 3,266,681.68**

Prepared 12.12.2025 MV

Golden Gate M.S.T.U.
Fund 1621
December 16, 2025

8.94%	Adjustment FY 24 to FY 25			
	FY 25 Gross MSTU Revenue	FY 24		
Millage	0.5000	0.5000	0.5 mill cap	
Tax Dollars	$736,688	$675,601	$129,275	Increase

Advisory Board Application Form

Collier County Government
3299 Tamiami Trail East, Suite 800
Naples, FL 34112
(239) 252-8400

Application was received on: 11/20/2025 06:28:16 PM

Name: Tamara Gubala

Email Address: Tam8560@aol.com

Home Address: 2950 49th ST SW

City/Zip Code: Naples, 34116

Primary Phone: 239-438-6525

Secondary Phone:

Board or Committee: Golden Gate Beautification MSTU Advisory Committee

Category (if Applicable):

Place of Employment? Collier County Public Schools

Do you or your employer do business with the County? No

How many years have you lived in Collier County? More than 15

Home many months out of the year do you reside in Collier County? I am a year-round resident

Have you been convicted or found guilty of a criminal offense (any level felony or first degree misdemeanor only)? No

Would you and/or any organizations with which you are affiliated benefit from decisions or recommendations made by this advisory board? No

Are you a registered voter in Collier County? Yes

Do you currently hold an elected office? No

Do you now serve, or have you ever served on a Collier County board or committee? No

Please list your community activities and positions held: None currently

Education: High school, Technical College

Experience / Background: High school, Technical College

Naples Electric Motor Works, Inc.

2088 J & C Blvd., Naples, FL 34109
Phone (239) 591-1313 Fax (239) 591-3015

STATE LICENSE #SCC131152959

PROPOSAL 251211-1 11/12/25

Golden Gate MSTU – Sunshine Blvd
Jeffrey Felger

Variable Frequency Drive (VFD) Replacement

Naples Electric Motor Works, Inc. will furnish and install (1) Yaskawa 56-amp VFD in the Sunshine Blvd. Irrigation Pump Station.

Price $3,090.78

Price good for 30 days

Thank you.

Paul Jukins
Naples Electric Motor Works

Accepted by: _____ Date _____

Print: _____



GOLDEN GATE M.S.T.U. ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104
September 16, 2025

MINUTES

I. CALL TO ORDER

The meeting was called to order at 4:28 P.M. by Chair Spencer. Attendance was called and a quorum of three was established.

II. ATTENDANCE

Advisory Committee	Patricia Spencer – Chair
	Paula Rogan – Vice Chair (Excused)
	Florence "Dusty" Holmes
	Ron Jefferson
	Open Seat
Staff	Ellen Sheffey – PTNE Interim Director (Excused)
	Dan Schumacher – Project Manager
Landscape	Mike McGee – Landscape Architect, McGee & Associates
	Armando Yzaguirre – Grounds Maintenance, A & M Property Maintenance (Excused)
Others	Wendy Warren – Transcription, Premier

III. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was not recited.

IV. APPROVAL OF AGENDA

Ms. Holmes motioned to approve the Agenda of the Golden Gate MSTU Advisory Committee as presented. Second by Mr. Jefferson. Carried unanimously 3 - 0.

V. APPROVAL OF MINUTES – August 19, 2025

Chair Spencer moved to approve the Golden Gate MSTU Advisory Committee meeting minutes of August 19, 2025, as presented. Second by Mr. Jefferson. Carried unanimously 3 - 0.

VI. LANDSCAPE MAINTENANCE REPORT

Mr. Schumacher reported:

- Routine landscape maintenance services have been performed on all MSTU roadways.
- Sunshine Boulevard median refurbishments are pending resolution of the irrigation issues.

Grounds Maintenance Multi-Year Contract

- A multi-year contract for three (3) years with a two (2) year renewal option has been awarded to Superior Landscaping and Lawn Service.
- He will drive through the community for a new vendor orientation if the paperwork is submitted prior to the end of September.

VII. LANDSCAPE ARCHITECT'S REPORT – McGee & Associates

(The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

Mr. McGee summarized the September 3, 2025, observation report noting format highlighting designation:

- Yellow - maintenance recommendation.
- Red - multiple plant loss will occur if not addressed.
- Purple – plants are under warranty and the responsibility of the landscaping contractor to replace.
- Blue (RFQ) – a quote for replacement plants has been requested.
- Strikethrough – items have been, or are being, addressed.

All locations

- Increase irrigation schedule in dry areas.
- Review accent lighting fixtures for cleaning and/or replacement.
- Tracer spray, to identify herbicide applications and provide a visual guide of where the herbicide has been sprayed, should be used to help prevent over spraying, drift, and accidental application to unintended areas.

Sunshine Boulevard

- All replacement plantings are on hold due to irrigation pump system not functioning.
- Review all duckbill guy systems on trees to ensure proper condition.
- All volunteer weeds and tree sprouts need to be removed.

Coronado Parkway & Hunter Boulevard

- A quote has been requested for replacement of Perennial Peanut in Median numbers 3, 4, 5, 6, 10 and 11, east and west ends, and 12. Mr. McGee is unable to identify the cause and suggested replacement with a different material such as Ecoturf.
- Recommend all paver areas be cleaned with "Wet & Forget Outdoor" mold and mildew remover.
- Recommend reviewing all valve locations for green reflective markers that are missing.
- Median end numbering needs to be repainted.

- Median #6 – Remove concrete debris from FPL streetlight pole damaged by a vehicle.
- Medians #5, #6, and #12: Remove Alexander palms, and one stump, and replant with ten-foot clear trunk Alexander palms.
- Median #11 – Recommend reviewing plantings and irrigation upon repair of the median guardrail.
- Median #14
    - Recommend removal of rock/concrete debris from median prior to mulching.
    - Repair paver border. Extend base twelve inches beyond current edge of pavers.

Tropicana Boulevard

- All Volunteer plants and vines growing within ground covers or shrub beds need to be removed.
- Recommend all paver areas be pressure washed and treated with "Wet & Forget" mold treatment spray.
- Repaint median end numbering.
- Median #2: Remove the coupler valve box top and lid and install new ones.
- Median #3 (bridge): Remove Blueberry Flax Lily growing in Iris.
- Median #4 and #5:
    - Remove Asparagus fern growing in Juniper plants.
    - Install four Crape Myrtles.

Fertilizer Schedule

The 2025 – 2026 recommended fertilization schedule for all roadways are included with the report.

Comments

Mr. Schumacher reported:

- A vehicular accident downed a decorative light pole on the south end of Median #5.
- Power was turned off and Simmonds Electrical, Inc. notified, and a repair/replacement quote requested.
- An insurance claim will be filed with the Risk Management Division if an accident report is available from the Sheriff's Office.

VIII. PROJECT MANAGER'S REPORT

Mr. Schumacher reported:

A. Budget Report

(The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

Golden Gate MSTU Fund 1621 Budget for September 16, 2025, prepared September 8, 2025.

- Purchase Orders
    1. Agriculture Service International – irrigation services.
    2. A & M Property Maintenance – ground maintenance.
        a. Incidentals – landscape plants, materials, and refurbishment.
        b. Maintenance – regular landscape & irrigation maintenance.
    3. FPL – electricity.
    4. Howard Fertilizer – fertilizer.
    5. Lykins-Signtek – "Welcome Sign"
    6. McGee & Associates – landscape architectural services.
    7. Naples Christmas Lighting – Holiday decorations.
    8. Naples Electric motor Works (NEMW) – pump station maintenance.

9. Premier Staffing – transcription services.
10. Simmonds Electrical – electrical maintenance and repairs.
11. SiteOne Landscape Supply – irrigation parts & components.
12. Southeast Spreading – mulch.
13. Tree Scaping of Naples – tree pruning and removal.

- Budget Summary
  1. Line 1, Revenues and Interest – Of the $743,200 budgeted, $783,427 has been collected, a surplus of $40,227.
  2. Line 2, Carry Forward – Unexpended Prior Year (2024) Funds $2,006,206.
  3. All Revenues – Of the $2,749,406 budgeted, $783,427 has been collected leaving an available balance of $1,966,978 (the sum of lines 1 and 2) minus Expenditures.
  4. Line 21, Operating Expense – Of $384,906 budgeted, $78,834 is committed on to existing Purchase Orders and $267,453 is expended, leaving the remainder of $42,618 available within budget for additional operating expenses as needed.
  5. Line 25, County Overhead – Of the $87,300 budgeted, $87,171 has been transferred, and a balance of $126 remains for transfer (PTNE Staff & support, Property Appraiser, & Tax Collector).
  6. Line 28, Capital Projects – Of the $2,277,200 budgeted, a Purchase Order in the amount of $31,738 has been issued for irrigation repairs, leaving $2,245,461 available for improvement projects.
  7. Line 29, All Expenses – Of $2,749,406 budgeted, $106,572 is committed in existing Purchase Orders, $354,624 has been expended, leaving a remainder of $2,288,208 available for MSTU expenditures.
  8. Line 30, FY-25 Budget Grand Total – budgeted Revenues (Line 3) and All Expenses (Line 28) are equal and cancel-out, $106,572 remains committed to existing Purchase Orders, collected Revenues exceed Expenses by $428,802 and $322,229 are Unexpended.

- General
  1. MSTU Tax Rate: 0.5000 Mills is for beautification improvements and maintenance within the taxing district.
  2. The Ad Valorem taxable value increased 8.94% for fiscal year 2025 over 2024 generating additional revenue of $129,275.
  3. Tax millage and interest collected by the Golden Gate Beautification MSTU may only be utilized by the MSTU and within the MSTU district boundary.

Mr. Schumacher noted:

- The Capital Projects category will fund pump station repairs and the proposed irrigation and landscape project(s) on Golden Gate Parkway.
- Uncommitted funds available within budget are eligible for transfer to other categories upon approval by the Committee.
- The Office of Budget Management (OMB) will be requested to add a line item in the FY-26 budget to allocate $150,000 for each of the four MSTU roadways in the Capital Improvements category dedicated to funding expenses incurred for disaster/catastrophic events.

<u>Fiscal Year 2026 Budget</u>

- The FY-26 budget is effective October 1, 2025.

- The Ad Valorem taxable value will be updated in the FY-26 budget.
- Funds not spent on FY-25 will be carried forward to FY-26.
- Asset Management Plan assets and expenditure projections to fund maintenance will be updated for 2026.

B. Committee Terms Expiring and Reapplications

Mr. Schumacher reported two seats, each for a four-year term, are available on the Golden Gate Beautification MSTU Advisory Committee.

Patricia Spencer and Florence Holmes applied for reappointment.

The applicants recommended will be considered for appointment to the Advisory Committee at the October meeting of the Board of County Commissioners.

Meeting Schedule

The October 21,2025 is cancelled. The next MSTU meeting is scheduled for November 18, 2025.

IX. ONGOING BUSINESS

A. Parkway Landscape & Irrigation Median Improvements

Proposed Cost Share – Road, Bridge & Stormwater Division (RBSD)

- Estimated cost proposals for Landscape and Irrigation improvements on Golden Gate Parkway/Golden Gate Bridge, west of the welcome sign at the intersection of Santa Barbara Boulevard, and east toward the bridge over the canal, were presented.
- Irrigation installation will commence, based on the contractor's availability and issuance of a Purchase Order.
- The formal bid package for landscaping will be distributed on September 25, 2025.
- A Notice-to-Proceed will be issued upon completion of the irrigation installation.
- The Road Maintenance Division will be responsible for installing and maintaining the improvements.

Mr. Jefferson motioned to approve the Road Maintenance Division's cost sharing proposal for Parkway Landscape and Irrigation Median Improvements from Santa Barbara Boulevard to 52nd. Terrace SW (including the Parkway canal bridge) for an amount of fifty per cent of total cost, not to exceed $70,000.00. Second by Ms. Holmes. Carried unanimously 3 – 0.

List of Beautification Master Plan

The Committee will consider participating in the landscape improvement project for Santa Barbara Boulevard from I75 to Copperleaf Lane at a future date.

B. Sunshine Irrigation Pump Station

Mr. Schumacher reported:

- Agricultural Services International (ASI) installed a pre-manufactured *Rain Bird* Compact Low Profile VFD Pump Station.
- The FPL power pole is single phase power input; the irrigation pump motor is three phase power output. The Variable Frequency Drive (VFD) will be revised with a compatible VFD component.
- The meter and/or piping will be moved into an underground box.
- ASI is scheduled to complete the installation week ending September 27, 2025.

- The vendor is paid when the project is complete.

X. NEW BUSINESS

Mr. Schumacher reported:

A. Holiday Décor 2025

- Naples Christmas Lighting, a Division of Sight N Sound, submitted quote #1097, dated September 11, 2025, in the amount of $3,500.00, to install holiday decorations and lighting in the Right-of-Way (ROW) on Golden Gate Parkway, at the intersection of Santa Barbara Blvd.
- The Committee decorations will incorporate the renovated community sign and surrounding foliage.
- Warm white and multi-colored lights will be placed in palm bushes.
- Four Palm trees behind the sign will be wrapped with lights.
- Decorations will be confined to the mulched bed area.
- Text and email contact information was provided to report seasonal light outages.

***Mr. Schumacher** will confirm the low plants in front of the sign will be lit.*

Mr. Jefferson motioned to approved Naples Christmas Lighting's quote #1097, dated September 11, 2025, for an amount not to exceed $5,000.00, to install holiday decorations and LED lighting in the Right-of-Way on Golden Gate Parkway, at the intersection of Santa Barbara Boulevard. Second by Ms. Holmes. Carried unanimously 3 – 0

XI. COMMITTEE MEMBER COMMENTS

Mr. Schumacher updated the Committee on the Public Utility Department's (PUD) relocation of the Tropicana Pedestrian Shelter.

- Q Grady Minor & Associates, LLC, the civil engineering consultants for the project, was notified of the Committees recommendation to remove the structure.
- Pavers and the trash receptacle for the existing shelter will be salvaged and stored by the County for use in other areas as needed.

***Mr. Schumacher** will recommend removal of the structure down to the anchor poles.*

XII. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 5:23 P.M.

GOLDEN GATE MSTU ADVISORY COMMITTEE

Patricia Spencer

Patricia Spencer, Chair

The Minutes were approved by the Committee on 12-16-,2025 as presented ____ or as amended ____.

NEXT MEETING: **OCTOBER 21, 2025 – 4:30 PM**
GOLDEN GATE COMMUNITY CENTER
4701 GOLDEN GATE PARKWAY
NAPLES, FL 34116



GOLDEN GATE M.S.T.U. ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104
October 21, 2025

MINUTES

I. CALL TO ORDER

The meeting was called to order at 4:31 P.M. by Chair Spencer. Attendance was called and a quorum was not established.

II. ATTENDANCE

Advisory Committee	Patricia Spencer – Chair
	Florence "Dusty" Holmes
	Ron Jefferson (Excused)
	Open Seat
	Open Seat
Staff	Ellen Sheffey – PTNE Interim Director
	Jeffrey Felger – Project Manager
Landscape	Mike McGee – Landscape Architect, McGee & Associates
	Joan Cruz – Grounds Maintenance, Superior Landscaping & Lawn Service (Excused)
Others	Wendy Warren – Transcription, Premier

III. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was recited.

IV. APPROVAL OF AGENDA

Staff noted that due to absence of a quorum the meeting would be held as an informational meeting in accordance with the Agenda.

V. APPROVAL OF MINUTES – September 19, 2025

The minutes of September 19, 2025, Golden Gate Beautification MSTU Advisory Committee meeting, will be considered at the November 18, 2025, meeting.

VI. LANDSCAPE MAINTENANCE REPORT

Mr. Felger reported:

- A multi-year contract for three (3) years with a two (2) year renewal option has been awarded to Superior Landscaping & Lawn Service.
- Routine landscape maintenance services will commence on all MSTU roadways.
- Sunshine Boulevard median refurbishments are pending resolution of the irrigation issues.

VII. LANDSCAPE ARCHITECT'S REPORT – McGee & Associates

An observation report will be presented at the November 18, 2025, meeting.

VIII. PROJECT MANAGER'S REPORT

Mr. Felger reported:

A. Budget Report

(The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

Golden Gate MSTU Fund 1621 Budget for October 21, 2025, prepared October 15, 2025.

Purchase Orders

1. Agriculture Services International – irrigation services.
2. FPL – electricity.
3. McGee & Associates – landscape architectural services.
4. Naples Christmas Lighting – Holiday decorations.
5. Naples Electric motor Works (NEMW) – pump station maintenance.
6. Premier Staffing – transcription services.
7. Simmonds Electrical – electrical maintenance and repairs.
8. SiteOne Landscape Supply – irrigation parts & components.
9. Southeast Spreading – mulch.
10. Superior Landscaping & Maintenance
    a. Incidentals – landscape plants, materials, and refurbishment.
    b. Maintenance – regular landscape & irrigation maintenance.
11. Tree Scaping of Naples – tree pruning and removal.

Budget Summary

1. Line 1, Revenues and Interest – Millage assessed and Interest totals $781,500, an increase of $38,300 over FY 24.
2. Line 2, Carry Forward – Unexpended Prior Year (2025) Funds Total $2,538,938.
3. All Revenues – A total of $3,320,438 (Millage Assessed, Interest, and FY-25 Carry Forward Funds).
4. Line 21, Operating Expense – Of the $420,800 budgeted, $298,110 is committed on to existing Purchase Orders and $122 is expended, leaving the remainder of $122,566 available within budget for additional operating expenses as needed.
5. Line 25, County Overhead – Of the $90,700 budgeted, $1,391 has been transferred, and a balance of $89,308 remains for transfer (PTNE Staff & support, Property Appraiser, & Tax Collector).

6. Line 28, Capital Projects – Of the $3,320,438 budgeted, a Purchase Order in the amount of $31,738 has been issued for irrigation repairs, leaving $2,777,200 available for improvement projects.
7. Line 29, All Expenses – Of $3,320,438 budgeted, $329,848 is committed, and $1,514 has been expended, leaving a remainder of $2,989,075 available for MSTU expenditures.

General

1. The Fiscal Year 2026 budget is effective October 1, 2025.
2. MSTU Tax Rate: 0.5000 Mills is for beautification improvements and maintenance within the taxing district.
3. The Ad Valorem taxable value increased 8.94% for fiscal year 2025 over 2024 generating additional revenue of $38,300.
4. The Office of Budget Management assumes 5% of the millage assessed will be delinquent and factors the assumption into the budget.
5. The *Asset Management Plan* which estimates life expectancies of MSTU assets and corresponding expenditure projections to fund maintenance and repairs of these assets through 2028 will be updated.
6. Tax millage collected and interest by the Golden Gate Beautification MSTU may only be utilized by the MSTU and within the MSTU district boundary.

Mr. Felger noted:

1. The Capital Projects category will fund pump station repairs and the proposed irrigation and landscape project(s) on Golden Gate Parkway.
2. An invoice in the amount of $31,738.40 has been received from Agricultural Services International (ASI) for the installation of an irrigation pump on Sunshine Boulevard.
3. Uncommitted funds available within budget are eligible for transfer to other categories upon approval by the Committee.
4. An inquiry will be made to the Office of Budget Management (OMB) for addition of a line item in the FY-26 budget to allocate $150,000 for each of the four MSTU roadways in the Capital Improvements category dedicated to funding expenses incurred disaster/catastrophic events.

B. Advisory Committee Appointments

Mr. Felger reported the Board of County Commissioners has reappointed Patricia Spencer and Florence Holmes to the Golden Gate Beautification MSTU Advisory Committee.

Two seats, each for a four-year term, are available on the Golden Gate Beautification MSTU Advisory Committee.

IX. ONGOING BUSINESS

Mr. Felger reported:

A. Parkway Landscape & Irrigation Median Improvements

Proposed Cost Share – Road, Bridge & Stormwater Division (RBSD)

- The MSTU approved the Road Maintenance Division's cost sharing proposal for Parkway Landscape and Irrigation Median Improvements from Santa Barbara Boulevard to 52nd. Terrace SW (including the Parkway canal bridge) for an amount of fifty per cent of total cost, not to exceed $70,000.00 at the September 16, 2025, meeting.
- Pamela Lulich, Manager, Landscape Operations, is preparing an *Executive Summary* for Landscape and Irrigation improvements on Golden Gate Parkway/Golden Gate Bridge,

west of the welcome sign at the intersection of Santa Barbara Boulevard, and east toward the bridge over the canal.

- Irrigation installation will commence, based on the contractor's availability and issuance of a Purchase Order.
- The formal bid package for landscaping will be distributed on September 25, 2025.
- A Notice-to-Proceed will be issued upon completion of the irrigation installation.
- The Road Maintenance Division will be responsible for installing and maintaining the improvements.

Ms. Lulich will be invited to the November meeting of the Golden Gate MSTU to provide an update on the project.

B. Irrigation

Mr. Felger reported:

Sunshine Irrigation Pump Station

- Agricultural Services International (ASI) installed a pre-manufactured *Rain Bird* Compact Low Profile VFD Pump Station.
- A quote will be requested from Naples Electric Motor Works (NEMW) for purchase and installation of an upgraded filter for the new pump.
- The quote will be presented to the Committee for consideration at the November meeting.
- The Road Maintenance Division utilizes the Motorola™ system for irrigation for all County roadways.

Irrigation System Conversion

- Terms of a potential contract with HydroPoint will be researched to determine if the current system can be converted to Motorola™.
- Conversion of the MSTU's irrigation system from HydroPoint to Motorola™ would provide continuity with the County equipment.
- The HydroPoint controller(s) would be replaced with Motorola™ controllers.
- A quote(s) will be requested from a qualified contractor(s) for the purchase and installation of the Motorola™ controller(s).
- The quote will be presented to the Committee at the November 2025 meeting for consideration.

X. NEW BUSINESS

Mr. Felger reported:

A. Holiday Décor 2025

- Naples Christmas Lighting, a Division of Sight N Sound, will install holiday decorations and lighting in the Right-of-Way (ROW) on Golden Gate Parkway, at the intersection of Santa Barbara Boulevard, the second week of November.
- The decorations will incorporate the renovated community sign and surrounding foliage.
- Warm white and multi-colored lights will be placed in palm bushes.
- Four Palm trees behind the sign will be wrapped with lights.

B. Tree Scaping of Naples

Mr. Felger presented quote number 11431, in the amount of $8,898.00 and quote number 11432 in the amount of $19,180.00, dated October 21, 2025, from Tree Scaping of Naples, Inc.

The quotes will be considered by the Committee at the November 18, 2025, meeting.

C. Light Pole Replacement

- A vehicular accident downed a decorative light pole on the south end of Median #5.
- A Request for Quote has been requested from Simmonds Electrical.
- An insurance claim will be filed with the Risk Management Division if an accident report is available from the Sheriff's Office.

D. Fertilization

Fertilizer will be applied in November/December in accordance with McGee & Associates schedule.

E. Mulch

- Cocoa Brown mulch will be installed in the medians on confirmation the irrigation system is functioning as intended.
- An inventory of mulch warehoused at the CAT Station will be undertaken. Additional quantities will be ordered as needed.

F. Meeting Time/Location Change

Members present confirmed that meetings scheduled monthly at the Golden Gate Community Center at 4:30 P.M. were convenient.

XI. COMMITTEE MEMBER COMMENTS

Members noted irrigation restoration, median maintenance and beautification are their priorities for the MSTU.

XII. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 4:56 P.M.

GOLDEN GATE MSTU ADVISORY COMMITTEE

Patricia Spencer

Patricia Spencer, Chair

The Minutes were approved by the Committee on 12-16-,2025 as presented ____ or as amended ____.

GoldenGateBeautificationMSTU/CollierPTNE

NEXT MEETING: **NOVEMBER 18, 2025 – 4:30 PM**
GOLDEN GATE COMMUNITY CENTER
4701 GOLDEN GATE PARKWAY
NAPLES, FL 34116

GOLDEN GATE COMMUNITY CENTER ADVISORY BOARD (GGCCAB)
MEETING MINUTES
11/03/2025

ADVISORY BOARD MEMBERS PRESENT:

Kaydee Tuff, Advisory Board Chairperson

Willie Brice, Advisory Board Member

Lizzette Homar-Ramos, Advisory Board Member

Angela Richberg, Advisory Board Member

Constance Bettinger, Advisory Board Member

ALSO PRESENT:

James Hanrahan, Division Director – Parks & Recreation

John Dunnuck, Executive Director – Facilities & Redevelopment

Evelyn Trimino, Manager, Financial Operations – Operations & Regulatory Management

Brooke Roxberry, Management Analyst II – Operations & Regulatory Management

Ray Coriano, GGCC Park Supervisor – Parks & Recreation, Advisory Board Facilitator

Mariah Bosetti, GGCC Customer Service Specialist II – Parks & Recreation, Advisory Board Recorder

I. Call to Order
Ms. Tuff called the Meeting to order at 6:01 PM.

II. Attendance/Establish a Quorum
Roll Call was taken by Ms. Tuff. All members were present. A quorum was established.

III. Pledge of Allegiance
Mr. Coriano led the Pledge of Allegiance.

IV. Approval of Agenda
Mr. Coriano requested the Board to add the following item to the agenda:
Under VIII. Community Center & Wheels Park Facilities Updates; B. Wheels Skate & BMX Park; add Item # 4. Security Cameras at Wheels.

Ms. Tuff called for a motion to approve the Meeting Agenda as amended. Ms. Richberg entered the motion, which Ms. Bettinger seconded. All members were in favor. The motion was carried.

V. Approval of Minutes – October 6th, 2025
Ms. Tuff called for a motion to approve the October 6th, 2025, Meeting Minutes.

Mr. Brice noted a typo: the Minutes stated that the October 6th, 2025, meeting was called to order by Ms. Tuff; however, in Ms. Tuff's absence, Mr. Brice had chaired the October meeting.
Ms. Bettinger entered the motion to approve the Advisory Board Meeting Minutes with that correction. It was seconded by Mr. Brice. All members were in favor. The motion was carried.

VI. Public Comments
No members of the Public were present.

VII. Monthly Budget Report
Mr. Brice requested that the Advisory Board members, at the end of the Monthly Budget Report, make a motion to accept or deny the report. Ms. Bettinger seconded the motion. All members were in favor. The motion was carried.

Mr. Coriano provided the Budget overview for October.
FY2026 Budget Amended: $1,023,900.00

A. Revenues
1. **FY2026 Amended: $1,023,900.00**
2. **Actual Monthly Revenues for GGCC: OCTOBER: $11,731.91**
3. **FY2026 Total Actuals: $11,731.91**
4. **Available: $1,012,168.09**

Mr. Coriano stated that most of the Revenues for October came from facility rentals and athletic programs.

B. Operating Expenses:
1. **FY2026 Amended: $767,253.00**
2. **Actual Monthly Expenses for GGCC: OCTOBER: $8,188.64**
3. **FY2026 Total Actuals: $8,188.64**
4. **Available: $146,138.28**

With no further questions, Ms. Tuff called for a motion to accept the Budget Report as presented by Mr. Coriano. Ms. Bettinger entered the motion. Ms. Richberg seconded it. All members were in favor. The motion was carried.

VIII. Community Center & Wheels Park Facilities Updates

A. Community Center:

1. **Restroom Floors (Open Item)**
Mr. Coriano stated that a Purchase Order has been established. Some of the materials have already been delivered to Facilities.

Ms. Roxberry added that an open P.O. and requisitions are pending for the purchase of additional materials. The estimated start date is no later than December 1st, but she will have to double-check the date.

2. **Gym Floor (Open Item)**
   Mr. Coriano requested Ms. Roxberry to provide an update. She stated that the project was still out to bid. She wanted to remind everyone that the project isn't just about the flooring; it's about a complete gym renovation. She will discuss at length with the Advisory Board once all quotes come back.

3. **Marquee Sign (Open Item)**
   Mr. Coriano stated that the new sign is out there. He did have some questions; he was sure that there was supposed to be a lockable cover on the letterbox. He didn't see one there. Also, there is a light switch on the base of the sign. He still has to go out and test whether the switch is how we control the sign's lighting.
   Ms. Roxberry added that the letterbox cover was within scope; however, it was not included in the quote. She stated that they would have it taken care of as soon as possible.
   Mr. Coriano stated that he would keep this Item open on the agenda for the next meeting.

4. **Shade Panel in Playground**
   Mr. Coriano stated that the vendor was contacted by Mr. Arcia (Maintenance Supervisor). We are awaiting a quote from them for the shade panel. FEMA should fund that.

5. **Replacement of Air Vents throughout the Center**
   Mr. Coriano stated that all air vents throughout the main building have been either replaced or cleaned. We can close out this Item on the Agenda.

6. **Replacement of Canister Lights in the Main Lobby**
   Mr. Coriano stated that Facilities would be out this week to replace the canister lights in the main lobby with LED lights.

B. **Wheels Skate & BMX Park**

1. **Announcing Tower Tarp Replacement (Open Item)**
   The company released the first piece they had been working on. It ended up being a little short, so they will have to adjust the measurements and come back.

2. **Skate Park Maintenance**
   Mr. Coriano stated that he has not received any updates on the skatepark maintenance contract. Ms. Roxberry added that a new service contract for American Ramp Company was approved, effective December 2nd. They recommended replacing the Skate Park in its entirety.

   Ms. Tuff stated that we had just had the Skate Park redone. Mr. Coriano stated that the Skate Lite was the last phase in Mr. Johnson's contract, but it was never completed.

   Ms. Bettinger asked how much the complete replacement would cost. Ms. Roxberry stated they had quoted close to $1 million. Ms. Bettinger asked Mr. Coriano whether he was aware of this situation, to which he replied that he was aware that the initial section completed needed improvements, but not the entire park. Ms. Bettinger stated that it appears Mr. Coriano is not receiving updates on these projects and is being blindsided by reports from GMD personnel. Mr. James explained that he usually meets with GMD personnel, who discuss these issues with the respective Regional Managers, and then passes them on to the park supervisor. Mr. Brice stated that this information is passed to the Board, but apparently, it is not reaching the park supervisor. Ms. Trimino stated that contractors

and/or project managers have completed walkthroughs for various projects at Wheels, and the results have been disseminated to the appropriate personnel. Ms. Tuff stated she is sure these walkthroughs have been completed, but the question is why the Park Supervisor has not been involved. She also stated that she would like an open line of communication with the Park Supervisor and that new updates be provided as well. Ms. Tuff noted that she would like more information with an itemized list of what is wrong and what's needed for the Skate Park.

3. **BMX Track Turns**
   Mr. Coriano stated that the turns on the BMX track are the original 2008 turns, which are now degrading. Naples BMX has done a good job of maintaining the track, but we will have to start looking at resurfacing the turns. He is also in contact with Ray the Trapper for the elimination of iguanas that have been nesting by the track.

   Ms. Bettinger asked if the surface would last until after the races in January. Mr. Coriano stated that the season ends in May; he hopes it will last until then.

4. **Security Cameras at Wheels**
   Mr. Coriano stated that the camera system has been replaced. They could not use the same spots where we had the cameras before, but they did use the spots as feed areas for wiring. Cameras are positioned to view: the Amphitheatre, the Open Field, Wheels entrance, the back side of the building, the back side of the Skate Park, the Back and front sides of the BMX track, and up to the staging area.

IX. Old Business

A. Special Events Planning – Halloween Event

Mr. Coriano showed the Advisory Board the video presentation of the GGCC Halloween Family Bash created by GGCC Program Leader Carly DelPozo. We had two Advisory Board members (Ms. Richberg and Ms. Bettinger) attend the event; they acted as the judges for the costume contest. We had a DJ for our glow dance party, some inflatables, and we ended up with about 400 attendees. Community Vendors included: CCSO, Greater Naples Fire Rescue, CC Public Library, Florida Department of Health, Advance America, Neighborhood Health Clinic, Amberton Townhomes, Ripple Fiber, the Experts, Estrella Insurance, BridgePrep Academy, and Betty's Zumba.

B. FY2026 Amended Budget

Nothing additional to add for this item.

C. Wheels/Naples BMX Events

Mr. Coriano stated that the two events are still scheduled:

1. **Naples BMX "Banging Bars" Race (Friday, December 12th)**
2. **Naples BMX State Qualifier (Thursday, January 8th – Sunday, January 11th)**

X. New Business

A. Board Member Position Availability

Mr. Brice's paperwork for renewal of his position with the GGCC Advisory Board was received and processed. Ms. Tuff made a motion to the board members to accept a new term for Willie Brice III. Ms. Bettinger seconded the motion, and all members agreed. Mr. Coriano will send the form back to the County Clerk's Office for submission to the next Board of Commissioners meeting.

B. Request to Name the Gymnasium

Mr. Coriano stated that Mr. John Dunnuck is requesting approval from the Advisory Board to name the GGCC Gymnasium in memory of Janice Elliott, former Program Leader II. Ms. Elliott worked at the Golden Gate Community Center from 1993 – 2008. She was the heart and soul of the building while she served here, and she created the midnight basketball program with the

Sheriff's office and many other great programs. With the Advisory Board's approval, he will take the request for the memorial plaque to be placed outside the gym to the BOCC (Board of County Commissioners).

Ms. Tuff stated that she thought it was an excellent idea; she had the pleasure of knowing Ms. Elliott. It would be like the dedication of the Joan Jenks Auditorium, or Mr. Arthur's plaque outside Room B.

Mr. Dunnuck also presented several of Ms. Elliott's family members who came in support of the proposed name, including Tracy Paxman (daughter), Jude Sannicandro (son), Angela Alfonso (granddaughter), LeShaye Miller (grandson), Jacob Miller (son), and his wife.

Ms. Tuff asked the Advisory Board for a vote to approve of a memorial plaque for Ms. Janice Elliott to be placed outside the GGCC Gymnasium. All members approved.

Ms. Bettinger asked if we could wait on the plaque until the renovations were complete. Mr. Coriano also agreed that once the gym renovation is completed, it would be a great time to dedicate the memorial.

Mr. Hanrahan stated that he will work with Mr. Dunnuck to get this matter to the BOCC. He will also put it on the agenda for the next PARAB (Parks and Recreation Advisory Board) meeting to show the BOCC that there is overwhelming support for this.

XI. Member Comments

+Mr. Brice stated that he fondly remembered the Friday night/midnight basketball at the Center, and it kept kids occupied and out of trouble.

+Ms. Homar-Ramos asked that Growth Management improve communication with Mr. Coriano.

+Ms. Bettinger stated that the Senior Center should remain an Open Item on the Agenda so the Advisory Board can stay up to date on the project. She also doesn't think Senior Center staff should be given building keys. The Community Center opens at 9am, and the library opens at 10am. The Senior Center can come into the building when it's open, just like any other renter.
+Ms. Bettinger stated she also heard that there wasn't any money in the grants for the rent that the Senior Center is supposed to pay the Golden Gate Community Center. She would like that investigated. Mr. Dunnuck stated that she was right. There have been two issues with the Senior Center right now. One of the grants said they wouldn't pay for relocation because they thought we could renovate with the seniors in place. The third grant wants a schedule of values for the project now. Regardless, the County Manager is aware of the rent agreement, and the County WILL pay the rent regardless of what happens with the grants.
+Ms. Bettinger went on to say that she understood that Growth Management oversees the money, but she is uncomfortable with all the changes in the building. There are things that have changed since they took over that the Advisory Board didn't get the chance to say yes or no about. She would like to know whether Growth Management will incorporate the Advisory Board into those decisions, or whether they aren't the ones to make that decision. She used two examples specifically. The chairs in the east lobby hallway were replaced. Yes, they were old, but the Advisory Board didn't get the opportunity to choose something nicer. Instead, we got "new" chairs that were left over from some other department. We also have a large community without internet access. So, when we have newspapers that people come in to get, that is really important to them. We, again, as an Advisory Board, make that decision. She is uncomfortable with that.

+Ms. Richberg asked whether the Advisory Board should vote on the issues Ms. Bettinger raised. Ms. Tuff stated that it should, at a minimum, be a courtesy.

+Ms. Bettinger stated that they could at least involve the Advisory Board in the decision-making. Mr. Hanrahan stated that he meets with Ms. Trimino regarding Parks frequently, as well as the Regional Managers. He will work to increase communication.

+Ms. Bettinger stated that her last point was to ask whether we hold-harmless agreements with any of the food banks, the church, the farmers' market, etc. Mr. Hanrahan stated that if it is organized and a permit is in place, the Center will receive a Certificate of Insurance from the organizer. We do have protocols for that.

+Ms. Richberg asked Mr. Coriano if he could ask about the building's Wi-Fi. Mr. Coriano stated that he did, and that IT is coming in to check both modem units. They informed him that if there isn't anything wrong with the modem we have, we will need to request an upgrade with justification, and then IT will let us know what they can do for us.

XII. Adjournment

With no further topics for discussion, Ms. Tuff called for a motion to adjourn the Meeting. Mr. Brice entered the motion; Ms. Homar-Ramos seconded the motion, and all members agreed. The Meeting was adjourned at 7:31pm.

Golden Gate Community Center Advisory Board

Kaydee Tuff, Chairman

These minutes approved by the Board on 12/01/2025 as presented,

or as amended _____.

Next Meeting, Monday, December 1st, 2025, at 6:00PM
Golden Gate Community Center • 4701 Golden Gate Parkway, Rm. C, Naples, FL 34116

GOLDEN GATE COMMUNITY CENTER
ADVISORY BOARD
AGENDA

December 1st, 2025
6:00 p.m.

I. Call to Order

II. Attendance – Establish a Quorum

III. Pledge of Allegiance

IV. Approval of Agenda

V. Approval of Minutes – November 3rd, 2025

VI. Public Comments

VII Monthly Budget Report

FY2026 = 1605 – 157710

A. Revenues:

1. FY2026 Amended: **$1,023,900.00**
2. Actual Monthly Revenues for GGCC: **November - $255,693.03**
3. FY2026 Total Actuals: **$272,884.94**
4. Available: **$751,015.06**

B. Operating Expenses:

1. FY2026 Amended: **$767,253.00**
2. Actual Monthly Expenses for GGCC: **November - $46,529.28**
3. FY2026 Total Actuals: **$54,873.47**
4. Available: **$134,448.94**

VIII. Community Center & Wheels Park Facilities Updates

A. Community Center:

1. Restroom Floors (Open Item)

2. Gym Floor (Open Item)

3. Marquee Sign (Open Item)
4. Shade Panel in Playground
5. Replacement of Canister Lights in Main Lobby

B. Wheels Skate & BMX Park:

1. Announcing Tower Tarp Replacement (Open Item)
2. Skate Park Maintenance (Open Item)
3. BMX Track Turns
4. Camera System

C. Senior Center Relocation Updates

IX. Old Business

A. Board Member Position Availability (Willie Brice III)

B. Request to Name the Gymnasium

X. New Business

A. Christmas Event – Cookies with Santa (January 19th, 2025)

B. Winter/Spring Programs Update

XI. Member Comments

XII. Adjournment

The next meeting is scheduled for Monday, January 5th, 2025
Golden Gate Community Center, Room C
4701 Golden Gate Pkwy, Naples, FL 34116

Golden Gate Community Center Advisory Board

Published on November 25, 2025

Notice of Public Meeting

Golden Gate Community Center Advisory Board

Collier County, Florida

December 1, 2025

6:00 p.m.

Notice is hereby given that the **Golden Gate Community Center Advisory Board** will meet on **Monday, December 1,** at **6:00 p.m.** This meeting will be held at the Golden Gate Community Center, Conference Room C, 4701 Golden Gate Parkway, Naples, Florida.

About the public meeting:

Two or more members of the Board of County Commissioners may be present and participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting of that board.

All interested parties are invited to attend and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register

with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call the Collier County Parks & Recreation Division at (239) 252-4000.

Tagged as:

Media Releases Public Notices

AGENDA
CONSERVATION COLLIER
LAND ACQUISITION ADVISORY COMMITTEE

December 3, 2025, 9:00 A.M.
Growth Management Community Development
Conference Room 609/610

All interested parties are invited to attend, and to register to speak. Individuals who would like to participate in person must complete and submit a speaker form. Members of the public who would like to participate remotely should register HERE to complete the online speaker registration form. Remote participation is provided as a courtesy and is at the user's risk. **The County is not responsible for technical issues**. Individuals who register online will receive an email in advance of the public meeting detailing how they can participate remotely. For additional information about the meeting, call 239-252-2961 or email **conservationcollier@collier.gov**

1. **Roll Call**
   - A. **Approval of CCLAAC members attending the meeting remotely**
2. **Approval of Agenda**
3. **Approval of November 5, 2025, Meeting Minutes**
4. **Old Business**
   - A. **Acquisition Updates**
     Current Acquisition Status report is updated monthly in advance of CCLAAC meeting and provided as part of the meeting packet. The report is posted online under Acquisition at: www.conservationcollier.com
5. **New Business**
   - A. **Budget Update FY26 – OMB**
   - B. **Initial Criteria Screening Reports (ICSRs) and Rankings**
     1. Panther Walk TPMA
        - a. Parang Trust (2024 B-list)
     2. I-75 and Everglades TPMA
        - a. Gomez
        - b. GAC
     3. McIlvane Marsh TPMA
        - a. Foster
   - C. Freedom Park/Gordon River Greenway Management Plan Update
     1. Freedom Park/Gordon River Greenway FCT Management Plan Update
     2. Gordon River Greenway "Preserve" Final Management Plan Update
6. **Subcommittee Reports**
   - A. **Lands Evaluation & Management –** Chair, Ron Clark – last meeting November 5, 2025, next meeting TBD – 2026 Williams Farms
   - B. **Outreach –** Chair, John Courtright - last meeting April 23, 2025
   - C. **Ordinance, Policy and Rules –** Chair, Michele Lenhard - last meeting December 18, 2023
7. **Staff Communications to Committee**
   - A. **Miscellaneous**
   - B. **BCC Items Related to Conservation Collier**

1. **Previously Heard**
    a. **11/10/2025:** AAL September & October; Second Amendment to the Agreement for Sale and Purchase with Symphony Properties, LLC
2. **Upcoming**
    a. **12/09/2025:** First Amendment to the Memorandum of Understanding with FWCF
    b. **1/13/2026:** AAL November 2025

8. **Chair and Committee Member Comments**
9. **Public Comments**
10. **Staff Comments**
11. **Next Meeting January 7, 2026**
12. **Adjourn**

Committee Members: Please email conservationcollier@collier.gov no later than noon Monday, December 1, 2025, if you cannot attend this meeting or if you have a conflict and will abstain from voting on an agenda topic.

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

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November 17, 2025

FOR IMMEDIATE RELEASE

Notice of Hybrid Remote Public Meeting
Conservation Collier Land Acquisition Advisory Committee
Collier County, Florida

December 3, 2025
9:00 am

Notice is hereby given that the **Conservation Collier Land Acquisition Advisory Committee (CCLAAC)** will meet on **Wednesday, December 3, 2025,** at **9:00 a.m.** This will be a Hybrid Remote meeting, and it will be held at the Growth Management Community Development Conference Room 609/610, 2800 North Horseshoe Drive Naples, Florida. The public may attend either remotely or in person.

Individuals who would like to participate in person must complete and submit a speaker form prior to the beginning of the discussion about the item. Individuals who would like to participate remotely must complete and submit the online speaker registration form prior to the beginning of the discussion about the item.

Individuals who would like to participate remotely should register in advance of the meeting at https://colliercountyfl.webex.com/weblink/register/rbc2aac5bf0bc89bf108d1f4cb55b5968 After registering, you will receive a confirmation email containing information about joining the meeting. Remote participation is provided as a courtesy and is at the user's risk. The County is not responsible for technical issues.

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting of those boards, councils or agencies.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as

possible, but no later than 48 hours before the scheduled event. Such reasonable accommodation will be provided at no cost to the individual.

For more information, call (239) 252-2961 or email conservationcollier@collier.gov

###

MINUTES OF THE CONSERVATION COLLIER LAND ACQUISITION ADVISORY COMMITTEE MEETING

Naples, Florida, November 5, 2025

LET IT BE REMEMBERED, the Conservation Collier Land Acquisition Advisory Committee in and for the County of Collier, having conducted business herein, met on this date at 9:00A.M. in REGULAR SESSION at the Growth Management Department Building, 2800 North Horseshoe Drive, Naples Florida with the following members present:

CHAIR:	Michele Lenhard
VICE CHAIR:	Ron Clark
	Gary Bromley
	Rhys Watkins
	John Courtright (Excused)
	Nick Pearson
	Austin Howell
	Oriany Brito
	Christopher Satter

ALSO PRESENT:

Summer Araque, Environmental Supervisor, Conservation Collier
Melissa Hennig, Environmental Specialist, I
Jennifer Belpedio, Real Property Management
Sally Ashkar, Assistant County Attorney
Jamie Cook, Director of Development Review
Kathlene Drew, Administrative Support Specialist, II
Julie Motkowicz, Environmental Specialist, II

1. **Roll Call**
   Chair Lenhard called the meeting to order at 9:08AM. Roll call was taken and a quorum was established with 8 Members present.

   A. **Approval of CCLAAC Members attending the meeting remotely**
   All Members were present in the conference room.

2. **Approval of Agenda**
   Mr. Howell moved to approve the Agenda. Second by Mr. Satter. Carried unanimously 8 – 0.

3. **Approval of the October 1, 2025 Meeting Minutes**
   Mr. Howell moved to approve the minutes of the October 1, 2025 meeting as presented. Second by Mr. Bromley. Carried unanimously 8– 0.

4. **Old Business**
   A. **Acquisition Updates** - *Current Acquisition Status report updated monthly in advance of CCLAAC meeting provided as part of meeting packet and under Acquisition News at www.conservationcollier.com* for information purposes. The report will be updated monthly (last updated 10/27/25) including parcels the County has acquired to date, offers made by the County, pending acquisitions and those properties where the owner withdrew the application.
   Ms. Araque presented the PowerPoint *"Conservation Collier Acquisition Update – November 5, 2025"* for information purposes: She noted:
   - Upcoming – Golden Land Partners – closing scheduled for 11/14/25.
   - A list properties appraisals are in process (awaiting Purchase Orders or responses to appraisal bids, etc.).
   - Several properties upcoming for rankings at the December meeting.
   - The Rails to Trails property acquisition was approved by Board of County Commissioners with Conservation Collier's cost for participation of $8.8M with 50 percent pledge due.
   - Everglades Outpost parcel in a holding pattern.

5. **New Business**
   A. **Hendrix property**
      1. **Interim Management Plan**
      Ms. Motkowicz provided the *"Hendrix Preserve Interim Management Plan"* for consideration. She presented a PowerPoint on the plan outlining the goals of the plan and other information including the characteristics of the parcel, history of land use, current land use, other County acquisitions in the area, vegetation, wildlife and recreation management activities, safety and security proposals and the budget (2026 - $52,000 and $23,000 for 2027 and 2028).

      During Committee discussion it was noted:
      - There is access to the property via 40th Ave.
      - The trails on the property would be integrated with other pathways owned by Conservation Collier when the opportunity arises.
      - The private conservations parcels in the vicinity are the result of the Rural Fringe Mixed Use District TDR program where developers have severed credits for development and placed the land in conservation.

- The fencing proposed for security would be located on the south side of the property.

Mr. Bromley moved to recommend the Board of County Commissioners approve the "Hendrix Preserve Interim Management Plan." Second by Mr. Watkins. Carried unanimously 8 – 0.

2. **Naming of Preserve**

Ms. Motkowicz presented a Memorandum dated October 29, 2025 - *Subject: Naming of Hendrix property (November 5, 2025, CCLAAC meeting).* She noted a public poll was conducted offering potential names for the preserve - 1. Black Bear Path Preserve 2. Wildcat Crossing Preserve 3. Hidden Swamp Preserve. After reviewing the results, the top choice was "*Black Bear Path Preserve.*"

Mr. Satter moved to recommend the Board of County Commissioners rename the Hendrix Preserve "Black Bear Path Preserve." Second by Ms. Brito. Carried unanimously 8 – 0.

B. Initial Criteria Screening Reports (ICSRs) and Rankings

During discussion the Committee requested Staff to determine the feasibility of providing the general value of the property offered for acquisition via any publicly available information (Collier County appraiser, MLS listings, etc.) during future presentations.

Ms. Hennig presented the following Reports and PowerPoint "

1. **Nichols**

"*Conservation Collier Initial Criteria Screening Report –Nichols, November 5, 2025"* for consideration.

The parcel is located on Taylor Terrace in Immokalee, is 9.1 acres and scored 194 out of 400. She noted the acquisition comprises 6 parcels however one of them may be purchased by a private party. Action by the Committee should include a ranking on the acquisition proposal separately for the 5 or 6 parcels should the sale come to fruition. Staff recommends the properties be placed on the A-List for acquisition.

During Committee discussion it was noted the northern section of the Williams Farms property 400 feet westerly of these parcels may be developed for affordable housing uses, however the southern portion will be preserve land. It would be beneficial to determine the status of the 3 parcels across Taylor Terrace separating these parcels from Williams Farm to determine any acquisition possibilities to provide connectivity between the properties.

Speaker

Brad Cornell, Audubon of Florida and Audubon of the Western Everglades recommended the parcels be placed on the A-List for acquisition as they comprise a large acreage for an urban area and is near Lake Trafford.

Mr. Bromley moved to place the application for 5 parcels on the A-List for acquisition. Second by Mr. Clark. Carried unanimously 8 – 0.

Mr. Howell moved to place the application for 6 parcels on the A-List for acquisition. Second by Mr. Bromley. Carried unanimously 8 – 0.

2. **Symphony Properties TPMA**
   a. **Saintelmy – 5-acre**

"Conservation Collier Initial Criteria Screening Report –Saintelmy – 5 acres, November 5, 2025" for consideration. The parcel is in the Symphony Properties TPMA, is 5 acres and scores 156 out of 400. Staff recommends the property be placed on the B-List for acquisition until additional parcels immediately nearby are acquired.

Speaker

Brad Cornell, Audubon of Florida and Audubon of the Western Everglades spoke on both applications prior to a motion being proposed by the Committee and recommended they be placed on the A-List for acquisition. Given the 10-acre parcel is contiguous to US Fish and Wildlife Service conservation easements and is characterized by valuable wildlife habitat. The 5-acre parcel given it's in the TPMA and there would be an opportunity to acquire other parcels nearby.

Mr. Pearson moved to place the parcel on the A-List for acquisition. Second by Mr. Clark. Motion failed 4 "yes" – 4 "no." Chair Lenhard, Mr. Howell, Mr. Watkins and Mr. Bromley voted "no."

Mr. Watkins moved to place the parcel on the A-List for acquisition. Second by Mr. Howell. Motion carried 7 "yes" – 1 "no." Mr. Clark voted "no."

b. Saintelmy – 10-acre (just outside TPMA)

*"Conservation Collier Initial Criteria Screening Report – Saintelmy – 10 acres" November 5, 2025*for consideration. The parcel is in the Symphony Properties TPMA, is 10 acres and scored 230 out of 400. Staff recommends the property be placed on the A-List for acquisition.

During Committee discussion it was noted Staff would coordinate with the School District on the location of any preserve areas if their parcel was developed on the easterly side of the Saintelmy property.

Mr. Watkins moved to place the parcel on the A-List for acquisition. Second by Mr. Clark. Carried unanimously 8 – 0.

3. North Belle Meade Preserve TPMA

a. North Naples United Methodist Church Trust

"Conservation Collier Initial Criteria Screening Report – North Naples Church, November 5, 2025" for consideration. The parcel is in the North Belle Meade TPMA, is 8.5 acres and scored 214 out of 400. Staff recommends it be placed on the A-List for acquisition.

Speaker

Brad Cornell, Audubon of Florida and Audubon of the Western Everglades recommended the parcel be placed on the A-List for acquisition given its location, other conservation easements in the area and its valuable habitat.

Mr. Bromley moved to place the parcel on the A-List for acquisition. Second by Mr. Satter. Carried unanimously 8 – 0.

4. I-75 and Everglades TPMA

a. Sit

"*Conservation Collier Initial Criteria Screening Report – Sit, November 5, 2025*" for consideration. The parcel is in the I-75 and Everglades TPMA, is 3.35 acres and scored 165 out of 400. Staff recommends the property be placed on the A-List for acquisition.

Speaker

Brad Cornell, Audubon of Florida and Audubon of the Western Everglades recommended the property be placed on the A-List for acquisition given its location and potential connectivity to areas like the North Belle Meade preserve.

Mr. Satter moved to place the parcel on the A-List for acquisition. Second by Mr. Bromley. Carried unanimously 8 – 0.

6. **Subcommittee Reports**
   A. **Lands Evaluation & Management** – Chair, Ron Clark – last meeting 10/1/2025.
   Next meeting – November 5, 2025 immediately following CCLAAC

   B. **Outreach** – Chair, John Courtright – Last meeting April 23, 2025
   No update necessary.

   C. **Ordinance Policy and Rules** – Chair, Michele Lenhard - Last meeting December 18, 2023
   No update necessary.

7. **Staff Communications to Committee**
   A. **Miscellaneous**
      1. **Gore Nature Center approval from Historical Archeological Preservation Board (HAPB)**
      Ms. Araque reported approval was obtained from the HAPB for the Gore Nature Center activity.

   B. **Upcoming events**
   Ms. Araque highlighted the following events:
      1. **11/08/2025 - Guided Swamp Walk at Panther Walk Preserve**
      2. **11/13/2025 – Volunteer Open House of Grounds at Gore Preserve**
      3. **11/22 & 11/23 - Hog Hunt at Pepper Ranch**

   C. **BCC Items Related to Conservation Collier**
      1. **Previously Heard**
         a. **10/14/2025: No Items on BCC Agenda**
         b. **10/28/2025: No Items on BCC Agenda**
         No update necessary

      2. **Upcoming**
         a. **11/10/2025: AAL September & October 2025; Second Amendment to the Agreement for Sale and Purchase with Symphony Properties, LLC, a Conservation Collier acquisition; Florida Wildlife Corridor Memorandum of Understanding**

8. **Chair/Committee Member Comments**
   None

9. **Public General Comments**
   None

10. Staff Comments
None

11. Next Meeting – December 3, 2025

There being no further business for the good of the County, the meeting was adjourned by order of the Chair at 10:30am.

Conservation Collier Land Acquisition Advisory Committee

Michele Lenhard, Chair

These minutes approved by the Committee on 12.3.25 as presented ____ or as amended ____.

SUMMARY PAGE

ACQUISITION SUMMARY OF ALL CYCLE 10, 11A, 11B, and 12A PROPERTIES				
	Total Acres	Appraised Value	Purchase Price	Total number of properties
ACQUIRED PROPERTIES (CYCLE 10, 11A, 11B, 12A, and 12B)	**2,318.25**	**$33,809,535**	**$33,307,049**	**118**
PROPERTIES PENDING ACQUISITION (CYCLE 12B, 2024, and 2025)	**844.95**	**TBD**	**TBD**	**25**

ACQUIRED PROPERTIES (February 2022 - Present)						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Purchase Price	Acquisition Status
Varney, Gail	Red Maple Swamp Preserve	10	1.14	$14,250	$14,250	Closed 2/14/22
Caberera, Mercedes	Red Maple Swamp Preserve	10	9.16	$114,500	$114,500	Closed 3/21/22
McLaughlin Trust, Geraldine	Red Maple Swamp Preserve	10	4.61	$57,625	$57,625	Closed 3/21/22
Setser, Carrie, Larry, and Ruby	Red Maple Swamp Preserve	10	5.00	$62,500	$62,500	Closed 3/21/22
Dessing, Carol A.	Winchester Head Preserve	10	1.14	$18,810	$18,810	Closed 3/28/22
Gonzalez, Isabel	Panther Walk Preserve	10	1.14	$50,000	$50,000	Closed 6/16/22
Rudnick, Carol - *Donation*	Dr. Robert H. Gore III Preserve	10	1.59	N/A	N/A	Closed 6/30/22
Gorman, Herman and Alice	Winchester Head Preserve	10	1.14	$18,810	$18,810	Closed 9/26/22
Popp, Joe	Rivers Road Preserve	10	19.40	$630,000	$630,000	Closed 9/26/22
Selvig, Maribeth - *Donation*	Panther Walk Preserve	10	1.14	N/A	N/A	Closed 9/26/22
Hussey Trust	North Belle Meade Preserve	10	256.00	$2,072,500	$2,072,500	Closed 11/14/22
Burns, Sandra	Panther Walk Preserve	10	1.14	$30,000	$30,000	Closed 1/30/23
Johnson, Tim R	Panther Walk Preserve	10	1.14	$30,000	$30,000	Closed 1/30/23
Meyer Trust	Panther Walk Preserve	10	1.59	$72,000	$72,000	Closed 1/30/23
Sanchez, PS & NE	Panther Walk Preserve	10	2.73	$63,000	$63,000	Closed 1/30/23
Thommen, William F	Panther Walk Preserve	10	5.00	$100,000	$100,000	Closed 1/30/23
Wright, David	Panther Walk Preserve	10	1.14	$30,000	$30,000	Closed 1/30/23
Zhuang, Joseph	Panther Walk Preserve	10	2.73	$63,000	$63,000	Closed 1/30/23
Aguilar, Jorge	Panther Walk Preserve	10	1.14	$40,000	$40,000	Closed 2/13/23
Pena, John	Panther Walk Preserve	10	2.27	$52,000	$52,000	Closed 2/13/23
Hofmann, Adelaida	Dr. Robert H. Gore III Preserve	10	1.59	$36,000	$36,000	Closed 2/27/23
D & J Investors	Panther Walk Preserve	10	1.14	$40,000	$40,000	Closed 6/9/23
Joyce, David	Panther Walk Preserve	10	2.27	$52,000	$52,000	Closed 6/9/23
Arnay, Henrietta	Panther Walk Preserve	10	1.14	$30,000	$30,000	Closed 6/16/23
Behnke, Lois	Panther Walk Preserve	10	1.14	$57,000	$57,000	Closed 6/16/23
Grossman, Barry	Panther Walk Preserve	10	2.73	$63,000	$63,000	Closed 6/16/23
Charles, Paulette	Dr. Robert H. Gore III Preserve	10	1.14	$25,100	$22,500	Closed 6/30/23
Toro, Michael	Winchester Head Preserve	10	1.59	$39,800	$35,820	Closed 6/30/23
Blocker, Brian	Pepper Ranch Preserve	10	24.50	$220,000	$220,000	Closed 7/7/23

ACQUIRED PROPERTIES (February 2022 - Present), cont'd						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Purchase Price	Acquisition Status
Guerra, Sigrid	Red Maple Swamp Preserve	10	1.14	$20,500	$20,500	Closed 7/7/23
Ruben Trust	Winchester Head Preserve	10	1.59	$39,800	$39,800	Closed 7/7/23
Zani, Paul	Dr. Robert H. Gore III Preserve	10	2.27	$49,900	$49,900	Closed 7/7/23
Castillo, Jose	Red Maple Swamp Preserve	10	5.41	$89,300	$84,835	Closed 7/14/23
Quevedo, Odalys	Dr. Robert H. Gore III Preserve	10	1.14	$28,000	$26,600	Closed 7/14/23
Sparkman Tamara Gibson	Panther Walk Preserve	10	1.14	$33,000	$33,000	Closed 7/14/23
Joyce, Martin and Elizabeth	Panther Walk Preserve	10	2.27	$61,300	$55,170	Closed 8/17/23
Martinez, Abel Chavez	Red Maple Swamp Preserve	10	2.27	$40,900	$36,000	Closed 8/17/23
Rodriguez (f.k.a. Lopez), Terri	Panther Walk Preserve	10	1.59	$42,900	$38,610	Closed 8/17/23
Salgado, Julio	Panther Walk Preserve	10	2.73	$73,700	$70,110	Closed 8/17/23
Fesser, Ivan	Winchester Head Preserve	10	2.27	$56,800	$53,960	Closed 9/1/23
Trofatter, Frederick	Winchester Head Preserve	10	1.14	$28,000	$25,650	Closed 9/7/23
Berman Trust, R F	Dr. Robert H. Gore III Preserve	11A	1.14	$30,000	$28,500	Closed 9/15/23
Craparo, Stephen	Dr. Robert H. Gore III Preserve	10	1.64	$44,000	$39,600	Closed 9/15/23
Fleming, Albert	Dr. Robert H. Gore III Preserve	10	1.64	$39,000	$37,500	Closed 9/15/23
Repola, Andrea	Panther Walk Preserve	11A	1.14	$45,000	$42,800	Closed 9/15/23
Vaz, Maurice J	Panther Walk Preserve	11A	1.59	$57,500	$57,000	Closed 9/15/23
Bailey, Charles E	Dr. Robert H. Gore III Preserve	10	1.14	$25,000	$25,000	Closed 9/20/23
Arias, Eladio	Dr. Robert H. Gore III Preserve	10	3.16	$63,000	$52,900	Closed 9/22/23
Arias, Eladio	Dr. Robert H. Gore III Preserve	10	3.78	$66,000	$63,200	Closed 9/22/23
Moody Crawford, Jim H	Pepper Ranch Preserve	10	59.79	$505,000	$505,000	Closed 9/22/23
McGinnis, Patricia	Panther Walk Preserve	11A	1.14	$45,000	$42,800	Closed 11/17/23
Scalley, William J and Martha	Panther Walk Preserve	11A	1.14	$45,000	$42,800	Closed 11/17/23
Trigoura, Delsina	Dr. Robert H. Gore III Preserve	11A	1.14	$30,000	$30,000	Closed 11/17/23
Perona, Barbara	Winchester Head Preserve	11A	1.59	$39,800	$39,800	Closed 12/1/23
Scotti, Mary	North Belle Meade Preserve	11A	8.74	$135,500	$128,700	Closed 12/1/23
Fontela, Maricel Aleu	Dr. Robert H. Gore III Preserve	11A	1.14	$25,700	$25,700	Closed 12/8/23
Sponseller, Robert	North Belle Meade Preserve	11A	5.00	$90,000	$90,000	Closed 12/8/23
VanCleave, Matthew	Rivers Road Preserve	11A	0.50	$52,500	$52,500	Closed 12/8/23
Weir Trust, Celine	Dr. Robert H. Gore III Preserve	11B	2.27	$39,500	$37,500	Closed 12/8/23

ACQUIRED PROPERTIES (February 2022 - Present), cont'd						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Purchase Price	Acquisition Status
Wilson Trust	Winchester Head Preserve	11B	1.59	$39,800	$39,800	Closed 12/8/23
Brewer, Richard	N/A	11B	14.78	$451,000	$405,900	Closed 12/15/23
Dibala Wood Trust	Dr. Robert H. Gore III Preserve	11B	18.28	$275,000	$261,300	Closed 12/15/23
Hackmann, Charles	Panther Walk Preserve	10	2.73	$70,000	$63,000	Closed 12/15/23
Annecy Marco LLC / Barfield	Marco Island	11A	2.13	$3,140,000	$3,140,000	Closed 1/5/24
Perez Castro, Pedro	Dr. Robert H. Gore III Preserve	11A	1.17	$29,000	$27,600	Closed 1/5/24
South Terra Corp	Marco Island	11A	0.56	$1,720,000	$1,620,000	Closed 1/5/24
Geren, Jonathan	North Belle Meade Preserve	11A	7.84	$129,500	$129,500	Closed 1/12/24
Gutierrez, Michael	North Belle Meade Preserve	11A	4.88	$85,400	$81,100	Closed 1/12/24
Bailey, Scott and Christopher	Winchester Head Preserve	11B	1.59	$39,800	$38,500	Closed 1/19/24
Dredge Management Assoc LLC	Shell Island Preserve	11B	18.73	$1,592,500	$1,512,875	Closed 1/19/24
English Trust	Pepper Ranch Preserve	11B	59.01	$515,000	$463,500	Closed 1/19/24
Williams	Nancy Payton Preserve	11B	0.50	$60,000	$60,000	Closed 1/19/24
Mooney/Hankins-Colon	Winchester Head Preserve	11B	1.59	$39,800	$39,800	Closed 2/16/24
A & T Kleinberger Rev Trust	Dr. Robert H. Gore III Preserve	12A	5.00	$110,000	$104,500	Closed 3/15/24
Rodriguez, Mario & Gisela	Panther Walk Preserve	12A	5.46	$158,400	$158,400	Closed 7/12/24
Murawski Trust	North Belle Meade Preserve	12A	4.87	$45,000	$42,750	Closed 7/24/24
Land Genie LLC	Dr. Robert H. Gore III Preserve	12A	2.73	$62,790	$62,790	Closed 8/9/24
Taylor, Ernesto & Ana	Dr. Robert H. Gore III Preserve	12A	5.00	$103,750	$98,650	Closed 8/9/24
Whittingham Corporation	Panther Walk Preserve	12A	1.59	$46,110	$45,990	Closed 8/16/24
Walsh, Nancy	Red Maple Swamp Preserve	12A	1.14	$20,520	$19,494	Closed 8/21/24
Arnold Trust	Dr. Robert H. Gore III Preserve	12A	7.16	$148,570	$141,140	Closed 8/23/24
Beckert, Marc & Elizabeth	Dr. Robert H. Gore III Preserve	12A	1.14	$26,220	$24,910	Closed 8/23/24
Granados, Nelson	Dr. Robert H. Gore III Preserve	12A	5.15	$106,860	$106,860	Closed 8/23/24
JA Moulton Trust	Dr. Robert H. Gore III Preserve	12A	7.17	$148,780	$141,340	Closed 8/23/24
Woodworth, Richard	Dr. Robert H. Gore III Preserve	12A	2.27	$52,210	$49,600	Closed 8/23/24
CDL Naples Investment LLC	Dr. Robert H. Gore III Preserve	12A	2.73	$62,790	$59,650	Closed 8/30/24
Langell Trust	Dr. Robert H. Gore III Preserve	12A	2.81	$61,120	$58,060	Closed 9/6/24
Hughes, Jeffrey & Melissa	Panther Walk Preserve	12A	1.59	$46,110	$46,110	Closed 9/11/24

ACQUIRED PROPERTIES (February 2022 - Present), cont'd						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Purchase Price	Acquisition Status
Sardinas, Martha	Dr. Robert H. Gore III Preserve	12A	2.34	$53,820	$53,820	Closed 9/13/24
Volpe Trust	North Belle Meade Preserve	12A	8.50	$109,000	$103,550	Closed 9/13/24
Wilson, Kyle & Lisa Mason	Panther Walk Preserve	12A	1.59	$46,110	$46,110	Closed 9/20/24
Aristizabal	McIlvane Marsh Preserve	12A	5.00	$20,000	$20,000	Closed 10/25/24
Arndt, Linda	Winchester Head Preserve	12A	1.14	$31,920	$30,320	Closed 11/1/24
Ayra, Anacely	Dr. Robert H. Gore III Preserve	12A	3.18	$69,170	$65,710	Closed 11/1/24
Erickson, Gerald	Dr. Robert H. Gore III Preserve	12B	1.14	$26,220	$24,910	Closed 11/7/24
Ebanks, Marvin	Winchester Head Preserve	12A	1.14	$31,920	$31,920	Closed 11/8/24
Cassity, Cina Lu	Panther Walk Preserve	12A	1.59	$46,110	$46,110	Closed 12/6/24
Catania, James	Winchester Head Preserve	12A	1.14	$31,920	$30,320	Closed 12/6/24
SD Orange Blossom - *Donation*	Dr. Robert H. Gore III Preserve	12A	1.14	N/A	N/A	Closed 12/16/24
SD Orange Blossom - *Donation*	Winchester Head Preserve	12A	1.14	N/A	N/A	Closed 12/16/24
James F. Dinwiddie Rev Trust	Panther Walk Preserve	12A	1.14	$33,060	$33,060	Closed 12/19/24
Radel, Mark	Panther Walk Preserve	12A	1.14	$33,060	$33,060	Closed 12/19/24
Seepersad, Kausil	Dr. Robert H. Gore III Preserve	12B	1.14	$26,220	$24,910	Closed 12/19/24
Vikon Corporation	Panther Walk Preserve	12B	1.59	$50,880	$50,880	Closed 1/16/25
Dennison, Robert	Dr. Robert H. Gore III Preserve	12A	2.73	$62,790	$62,790	Closed 1/17/25
Ngo/Huynh/Lieu	Panther Walk Preserve	12B	2.73	$87,360	$87,360	Closed 1/31/25
Stone Trust	Panther Walk Preserve	12B	5.00	$141,250	$141,250	Closed 2/14/25
JOL Property Ventures	Panther Walk Preserve	12B	1.14	$36,480	$36,480	Closed 3/20/25
Martinez, Abel Chavez	Panther Walk Preserve	12B	1.14	$36,480	$36,480	Closed 3/27/25
Fernandez, Erik	Winchester Head Preserve	12A	1.59	$44,520	$44,520	Closed 4/10/2025
Descoteau, Donn & Donna	Dr. Robert H. Gore III Preserve	11B	1.14	$25,100	$25,100	Closed 4/23/2025
Fish, Monica	Panther Walk Preserve	12B	1.14	$36,480	$36,480	Closed 4/23/2025
Hendrix House	I-75 and Everglades Blvd.	12B	17.66	$502,500	$502,500	Closed 6/12/2025
Cypress Cove Conservancy	Dr. Robert H. Gore III Preserve	12B	10.00	$721,000	$648,900	Closed 8/8/2025
Lautz, Cameron	Panther Walk Preserve	12B	2.27	$72,640	$72,640	Closed 8/15/2025
Symphony Properties	N/A	12A	150.00	$4,015,000	$4,015,000	Closed 9/12/2025
Williams Farms	N/A	2024	1,410.00	$11,980,000	$11,980,000	Closed 9/18/2025
Golden Land Partners	North Belle Meade Preserve	2024	6.25	$29,000	$29,000	Closed 11/14/2025
TOTAL ACQUIRED PROPERTIES			**2,318.25**	**$33,809,535**	**$33,307,049**	**Total number of properties = 118**

PROPERTIES PENDING ACQUISITION						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Purchase Price	Acquisition Status
Subtotal - Properties with Board Approved Purchase Agreements						Subtotal number of properties = 0
HK Investment	Marco Island	12B	0.37	TBD	TBD	New Appraisal not yet ordered
Van Cleef	Marco Island	12B	0.43	TBD	TBD	New Appraisal not yet ordered
Wildflowerz Ranch	N/A	12B	639.17	TBD	TBD	New Appraisal not yet ordered
Wilson	North Belle Meade Preserve	2024	5.00	TBD	TBD	New Appraisal not yet ordered
Edwards Trust	N/A	2025	65.00	TBD	TBD	Appraisal not yet ordered
Golden Land Partners	N/A	2025	20.00	TBD	TBD	Appraisal not yet ordered
Berman Trust parcel 1	I-75 and Everglades Blvd.	2025	5.00	TBD	TBD	Appraisal not yet ordered
Berman Trust parcel 2	I-75 and Everglades Blvd.	2025	1.59	TBD	TBD	Appraisal not yet ordered
Echavarria	I-75 and Everglades Blvd.	2025	3.05	TBD	TBD	Appraisal not yet ordered
Family Onyx	I-75 and Everglades Blvd.	2025	2.73	TBD	TBD	Appraisal not yet ordered
Morales	I-75 and Everglades Blvd.	2025	2.27	TBD	TBD	Appraisal not yet ordered
Pancham	I-75 and Everglades Blvd.	2025	2.73	TBD	TBD	Appraisal not yet ordered
Tran	I-75 and Everglades Blvd.	2025	2.27	TBD	TBD	Appraisal not yet ordered
Lucarelli	N/A	2025	5.00	TBD	TBD	Appraisal not yet ordered
Sarry Trust	North Belle Meade Preserve	2025	13.30	TBD	TBD	Appraisal not yet ordered
Simmons Trust	North Belle Meade Preserve	2025	38.94	TBD	TBD	Appraisal not yet ordered
Dabreo	Brewer's Landing	2025	2.73	TBD	TBD	Appraisal not yet ordered
Castillo	Dr. Robert H. Gore III Preserve	2025	5.00	TBD	TBD	Appraisal not yet ordered
Harden	Dr. Robert H. Gore III Preserve	2025	2.73	TBD	TBD	Appraisal not yet ordered
Perez	Dr. Robert H. Gore III Preserve	2025	5.00	TBD	TBD	Appraisal not yet ordered
Reina	Dr. Robert H. Gore III Preserve	2025	2.27	TBD	TBD	Appraisal not yet ordered
Rivera	Dr. Robert H. Gore III Preserve	2025	2.27	TBD	TBD	Appraisal not yet ordered
Wilcox	Panther Walk Preserve	2025	1.59	TBD	TBD	Appraisal not yet ordered
Bennett	Nancy Payton Preserve	2025	1.00	TBD	TBD	Appraisal not yet ordered
Seminole Gulf Railway	Railhead Scrub Preserve	2025	15.51	TBD	TBD	Appraisal not yet ordered
Subtotal - Properties with Board Approval of Purchase Agreements Pending			844.95	TBD	TBD	Subtotal number of properties = 25
TOTAL PROPERTIES PENDING ACQUISITION			**844.95**	**TBD**	**TBD**	**Total number of properties = 25**

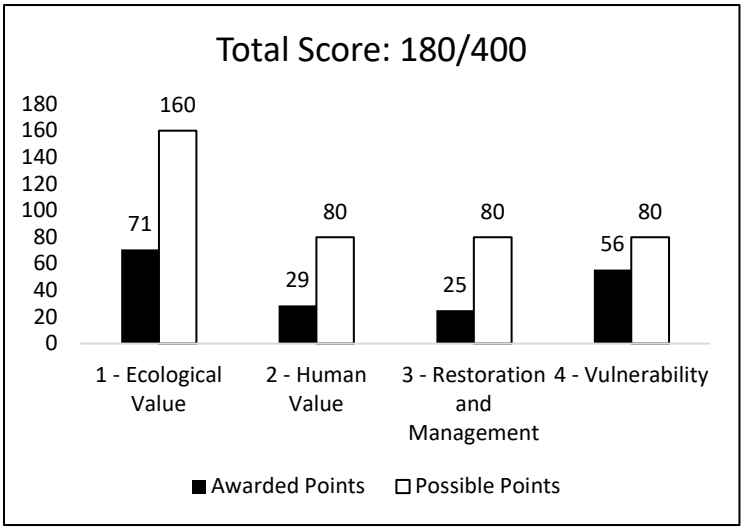
A-LIST PROPERTIES THAT WILL NOT BE ACQUIRED AT THIS TIME						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Final Offer Amount	Acquisition Status
Amaranth Trust, Forrest G	N/A	10	71.16	N/A	N/A	Property withdrawn
Anderson, Charles	Panther Walk Preserve	10	2.27	$64,000	$64,000	Offer not accepted
Anderson, Charles	Panther Walk Preserve	10	1.14	N/A	N/A	Sold to another
Argay, Lorraine D	Dr. Robert H. Gore III Preserve	10	7.05	$81,000	$81,000	Offer not accepted
Arnold, Emily	Pepper Ranch Preserve	10	5.00	N/A	N/A	Property withdrawn
Arnold, Vanette	Panther Walk Preserve	10	1.14	$30,000	$30,000	Offer not accepted
Big Hammock - Area I (Barron Collier Partnership)	Pepper Ranch Preserve	10	257.3	$900,000	$900,000	Offer not accepted
Casasierra Realty LLC	Winchester Head Preserve	10	1.14	N/A	N/A	Property withdrawn
Cedeno, Kenneth	Dr. Robert H. Gore III Preserve	10	2.81	$56,000	$56,000	Offer not accepted
Dahche, Ahmand	Panther Walk Preserve	10	5.00	$130,000	$130,000	Offer not accepted
D'Angelo, Eugene	Dr. Robert H. Gore III Preserve	10	5.00	$100,000	$100,000	Offer not accepted
Erjavec, Eugene	Rivers Road Preserve	10	4.92	$200,000	$200,000	Offer not accepted
Eschuk, Shari	Rivers Road Preserve	10	4.78	$180,000	$180,000	Offer not accepted
Fischer Trust, Addison	Marco Island	10	0.63	N/A	N/A	Property withdrawn
Haughton, Veronica	Panther Walk Preserve	10	2.73	N/A	N/A	Sold to another
Higdon Trust, Garey D	Winchester Head Preserve	10	1.59	N/A	N/A	Sold to another
Macrina, Kathleen	Panther Walk Preserve	10	1.14	N/A	N/A	Sold to another
Moylan, Paul E	Panther Walk Preserve	10	2.73	$63,000	$63,000	Offer not accepted
Ortega, Berardo	Panther Walk Preserve	10	1.14	$30,000	$30,000	Property withdrawn
Three Brothers	Panther Walk Preserve	10	2.73	$63,000	$63,000	Offer not accepted
WISC Investment - Inlet Dr	Marco Island	10	0.39	$429,000	$429,000	Purchase Agreement not approved by BCC
Agua Colina	Marco Island	11A	0.63	$1,120,000	$1,120,000	Purchase Agreement not approved by Board
Berman Rev Trust, R F	Panther Walk Preserve	11A	1.17	N/A	N/A	Property withdrawn
Chestnut, Diane	Marco Island	11A	0.53	$627,500	$627,500	Offer not accepted
Colon, Donna & Patricia Mack	Dr. Robert H. Gore III Preserve	11A	2.27	N/A	N/A	Sold to another
S & B Properties of Marco LLC	Marco Island	11A	0.50	$570,000	$570,000	Offer not accepted
Starnes, Hugh	Caracara Prairie Preserve	11A	4.54	$250,000	$250,000	Offer not accepted
Buckley Enterprises	Nancy Payton Preserve	11B	80.00	$780,000	$780,000	Offer not accepted
Khoury	Otter Mound Preserve	11B	0.43	N/A	N/A	Sold to another
Lie, Run He	Nancy Payton Preserve	11B	0.50	$80,000	$80,000	Offer not accepted

A-LIST PROPERTIES THAT WILL NOT BE ACQUIRED AT THIS TIME, cont'd						
Property Name	Preserve	Cycle	Size (ac)	Appraised Value	Final Offer Amount	Acquisition Status
Owl Hammock	N/A	11B	7,378.00	N/A	N/A	Acquired by State of Florida
Relevant Radio, Inc.	McIlvane Marsh Preserve	11B	10.46	$126,350	$126,350	Offer not accepted
Sit/Chew	Nancy Payton Preserve	11B	3.00	$390,000	$390,000	Offer not accepted
Smith & Montgomery	Dr. Robert H. Gore III Preserve	11B	2.73	N/A	N/A	Property withdrawn
Bleka, Joseph & Christina	Dr. Robert H. Gore III Preserve	12A	2.34	$53,820	$53,820	On-hold until title is clear
Veneziano, Steve	Panther Walk Preserve	12A	1.14	$33,060	$33,060	Offer not accepted
Wilson, Rebecca	Winchester Head Preserve	12A	1.14	$29,000	$29,000	Offer not accepted
Eid	Dr. Robert H. Gore III Preserve	12B	2.27	$52,210	$49,600	Offer not accepted
Lynch	Winchester Head Preserve	12B	1.14	$31,920	$30,320	Offer not accepted
Parraga	Dr. Robert H. Gore III Preserve	12B	2.81	$61,120	$58,060	Offer not accepted
Pritchard	Dr. Robert H. Gore III Preserve	12B	2.27	$52,210	$49,600	Offer not accepted
Sunny Florida Investments, Inc	Dr. Robert H. Gore III Preserve	12B	1.14	$26,220	$24,910	Offer not accepted
D & J Investors	North Belle Meade Preserve	2024	5.00	$52,000	$52,000	Offer not accepted
Santamaria	Caracara Prairie Preserve	2024	61.10	N/A	N/A	Property withdrawn
Wildcat Acres	N/A	12B	73.60	N/A	N/A	Working through access issues
TOTAL PROPERTIES THAT WILL NOT BE ACQUIRED AT THIS TIME			**8,020.50**	**N/A**	**N/A**	**Total number of properties = 45**

Conservation Collier Initial Criteria Screening Report
Parang Trust



Owner(s): Masood Parang Revocable Living Trust
Size: 2.73 acres
Folio No: 39148120004
Staff Report Date: October 2, 2024 (Updated December 3, 2025)



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1. Introduction

The Conservation Collier Program (Program) is an environmentally sensitive land acquisition and management program approved by the Collier County Board of County Commissioners (Board) in 2002 and by Collier County Voters in 2002 and 2006. The Program was active in acquisition between 2003 and 2011, under the terms of the referendum. Between 2011 and 2016, the Program was in management mode. In 2017, the Collier County Board reauthorized Conservation Collier to seek additional lands (2/14/17, Agenda Item 11B). On November 3, 2020, the Collier County electors approved the Conservation Collier Re-establishment referendum with a 76.5% majority.

This Initial Criteria Screening Report (ICSR) has been prepared for the Conservation Collier Program to meet requirements specified in the Conservation Collier Implementation Ordinance, 2002-63, as amended, and for purposes of the Conservation Collier Program. The sole purpose of this report is to provide objective data to demonstrate how properties meet the criteria defined by the ordinance.

The following sections characterize the property location, elaborate on the initial and secondary screening criteria scoring, and describe potential funding sources, appropriate use, site improvements, and estimated management costs.

2. Summary of Property

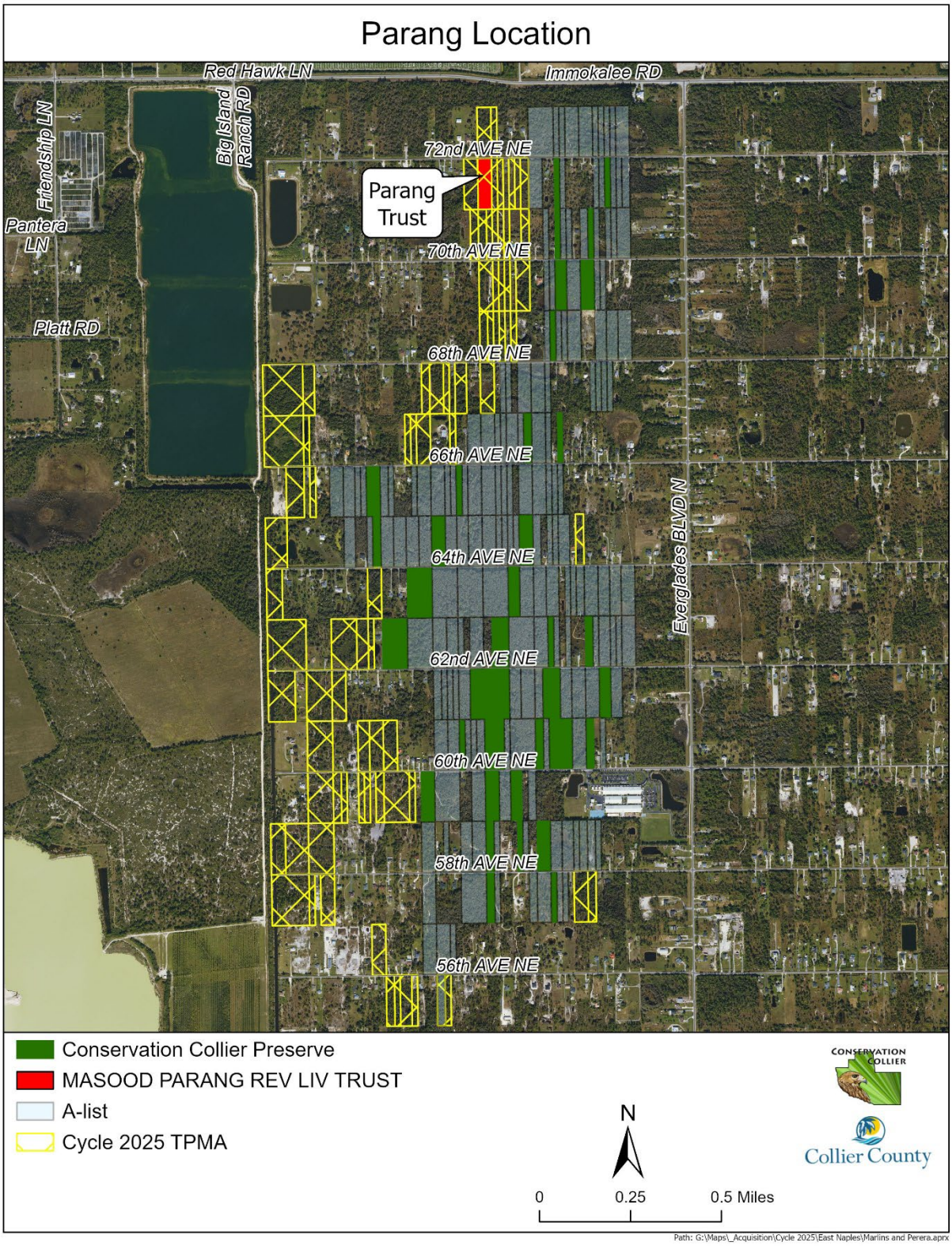


Figure 1 - Parcel Location Overview

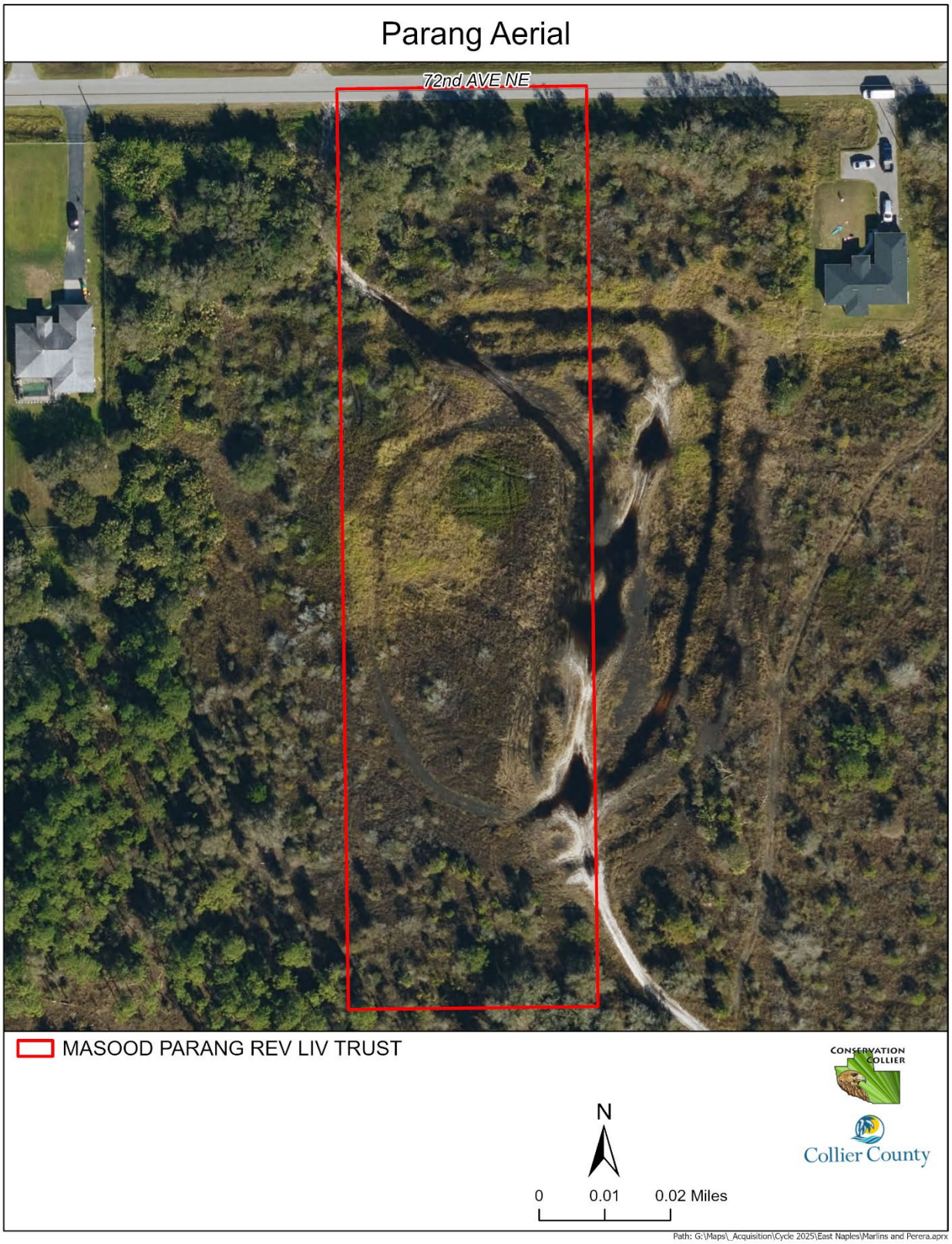


Figure 2 - Parcel Close-up

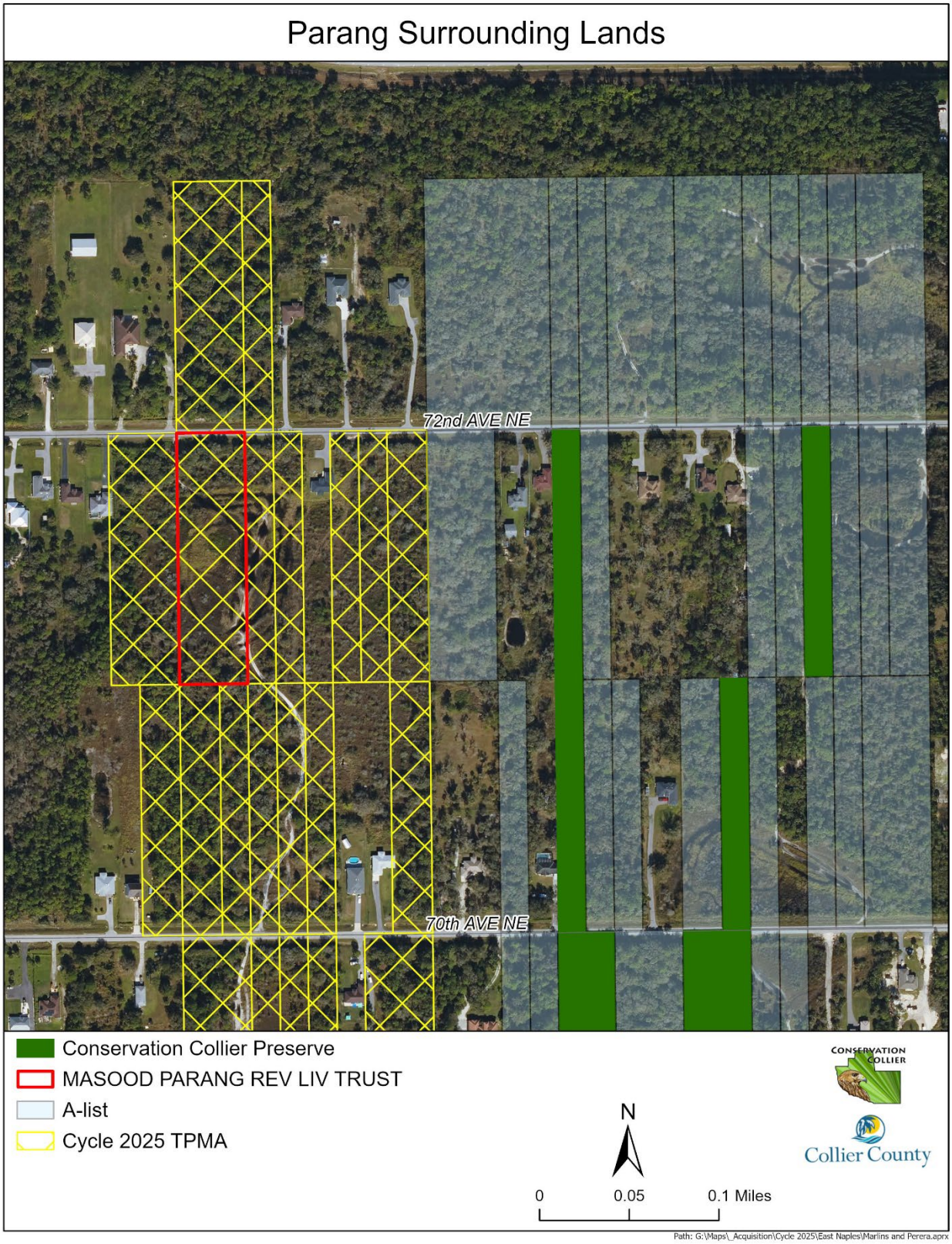


Figure 3 - Parcel Surrounding Lands

2.1 Summary of Property Information

Table 1 – Summary of Property Information

Characteristic	Value	Comments
Name	Parang Trust	Masood Parang Revocable Living Trust
Folio Number	39148120004	
Target Protection Area	Northern Golden Gate Estates	Within the Panther Walk Preserve TPMA
Size	2.73 acres	
Section, Township, and Range	S30, T47, R28	S30, T47, R28
Zoning Category/TDRs	E	Estates - allows 1 unit per 2.25 acres
Existing structures	None	
Adjoining properties and their Uses	Undeveloped, Residential, and roadway	Undeveloped land directly adjacent, Low-density, single-family homes within 350 ft. of parcel, parcel fronts 72nd Ave. NE
Development Plans Submitted	None	
Known Property Irregularities	Trails	Deep Utility Terrain Vehicle (UTV) trails within parcel
Other County Dept Interest	None	

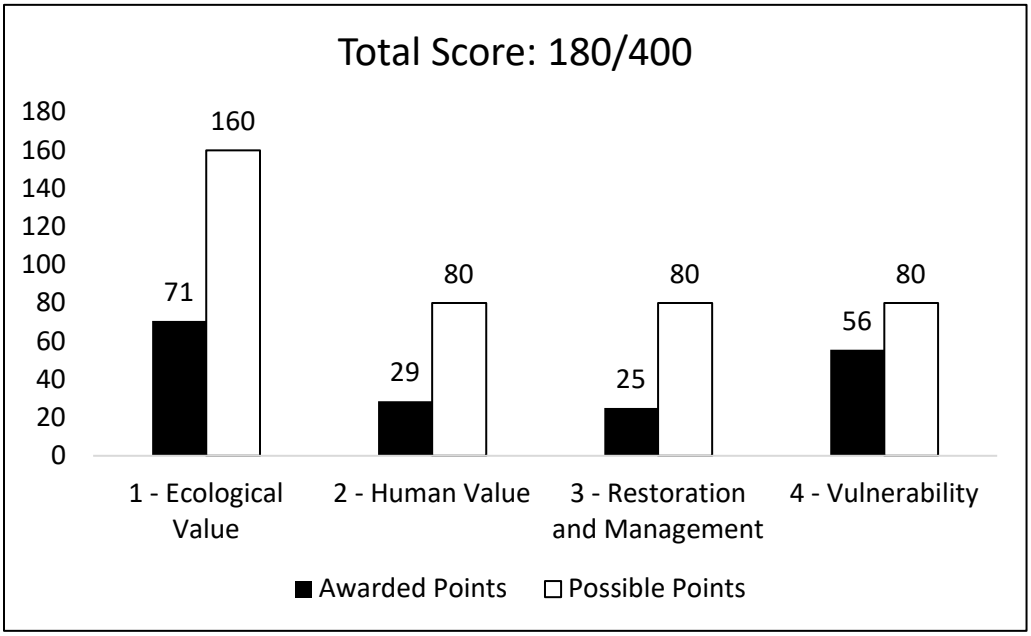


Figure 4 - Secondary Criteria Score

Table 2 - Secondary Criteria Score Summary

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**71**	**160**	**44%**
1.1 - Vegetative Communities	37	53	70%
1.2 - Wildlife Communities	19	27	70%
1.3 - Water Resources	15	27	55%
1.4 - Ecosystem Connectivity	0	53	0%
2 - Human Values	**29**	**80**	**36%**
2.1 - Recreation	6	34	17%
2.2 - Accessibility	20	34	58%
2.3 - Aesthetics/Cultural Enhancement	3	11	25%
3 - Restoration and Management	**25**	**80**	**31%**
3.1 - Vegetation Management	23	55	42%
3.2 - Remediation and Site Security	2	23	10%
3.3 - Assistance	0	2	0%
4 - Vulnerability	**56**	**80**	**69%**
4.1 - Zoning and Land Use	56	58	96%
4.2 - Development Plans	0	22	0%
Total	**180**	**400**	**45%**

2.2 Summary of Initial Screening Criteria Satisfaction (Ord. 2002-63, as amended, Sec. 12)

Criteria 1: CLIP Priority 1 Natural Community

Does the property contain Upland Hardwood Forest, Scrub, Coastal Upland, Dry Prairie, or Upland Pine? **YES**

Parcel does contain a small section (0.2 acres) of Oak Hammock.

Criteria 2: CLIP Priority 2 Natural Community

Does the property contain Pine Flatwoods or Coastal Wetlands? **NO**

Criteria 3: Other Native, Natural Communities

Does the property contain other native, natural communities? **NO**

Criteria 4: Human Social Values

Does the property offer cultural values, appropriate access for natural resource-based recreation, and the enhancement of the aesthetic setting of Collier County? **YES**

The property is accessible via 72nd Ave. NE. A short hiking trail could be established on the parcel; however, parking would only be available on the side of the street.

Criteria 5: Water Resources

Does the property offer opportunities for protection of water resource values, including aquifer recharge, water quality enhancement, protection of wetland dependent species habitat, wildfire risk reduction, storm surge protection, and flood control? **YES**

The parcel is almost entirely wetlands. It is also within the historic location of the Horsepen Strand.

Criteria 6: Biological and Ecological Value

Does the property offer significant biological values, including biodiversity and listed species habitat? **YES**

The parcel provides listed wading bird habitat.

Criteria 7: Enhancement of Current Conservation Lands

Does the property enhance and/or protect the environmental value of current conservation lands through function as a buffer, ecological link, or habitat corridor? **NO**

Criteria 8: Target Area

Is the property within a Board-approved target protection mailing area? **YES**

The Parang Trust parcel met 5 out of the 8 Initial Screening Criteria.

3. Initial Screening Criteria

3.1 Ecological Values

3.1.1 Vegetative Communities

Freshwater marsh: The marsh is very disturbed with multiple UTV trails throughout. Paragrass (*Urochloa mutica*), West Indian marsh grass (*Hymenachne amplexicaulis*), and Wright's nutrush (*Scleria lacustris*) are the dominant species, with native plants growing among the exotic plants. The deepest portions of the marsh (deep UTV ruts) contain American white waterlily (*Nymphaea odorata*) and bladderwort (*Utricularia* sp.). The shallower areas contain pickerelweed (*Pontederia cordata*), alligatorflag (*Thalia geniculata*), arrowhead (*Sagittaria lancifolia*), swamp fern (*Telmatoblechnum serrulatum*), and sedges which give way to Carolina redroot (*Lachnanthes caroliana*), grasses and ferns around the perimeter.

Cypress/mixed hardwood forest: This habitat is found along the margins of the freshwater marsh. The canopy is comprised of cypress (*Taxodium distichum*), laurel oak (*Quercus laurifolia*), and cabbage palm (*Sabal palmetto*). The midstory is comprised of myrsine (*Myrsine cubana*), dahoon holly (*Ilex cassine*), and wax myrtle (*Morella cerifera*). The understory is comprised of swamp fern (*Telmatoblechnum serrulatum*), saw grass (*Cladium jamaicense*), Carolina redroot, and sedges.

Oak hammock: This habitat is dominated by laurel oak and cabbage palms. The midstory consists of myrsine and saw palmetto (*Serenoa repens*). The understory consists of swamp fern, muscadine (*Vitis rotundifolia*), and greenbriers (*Smilax* spp.).

No listed plant species were observed on the parcel.

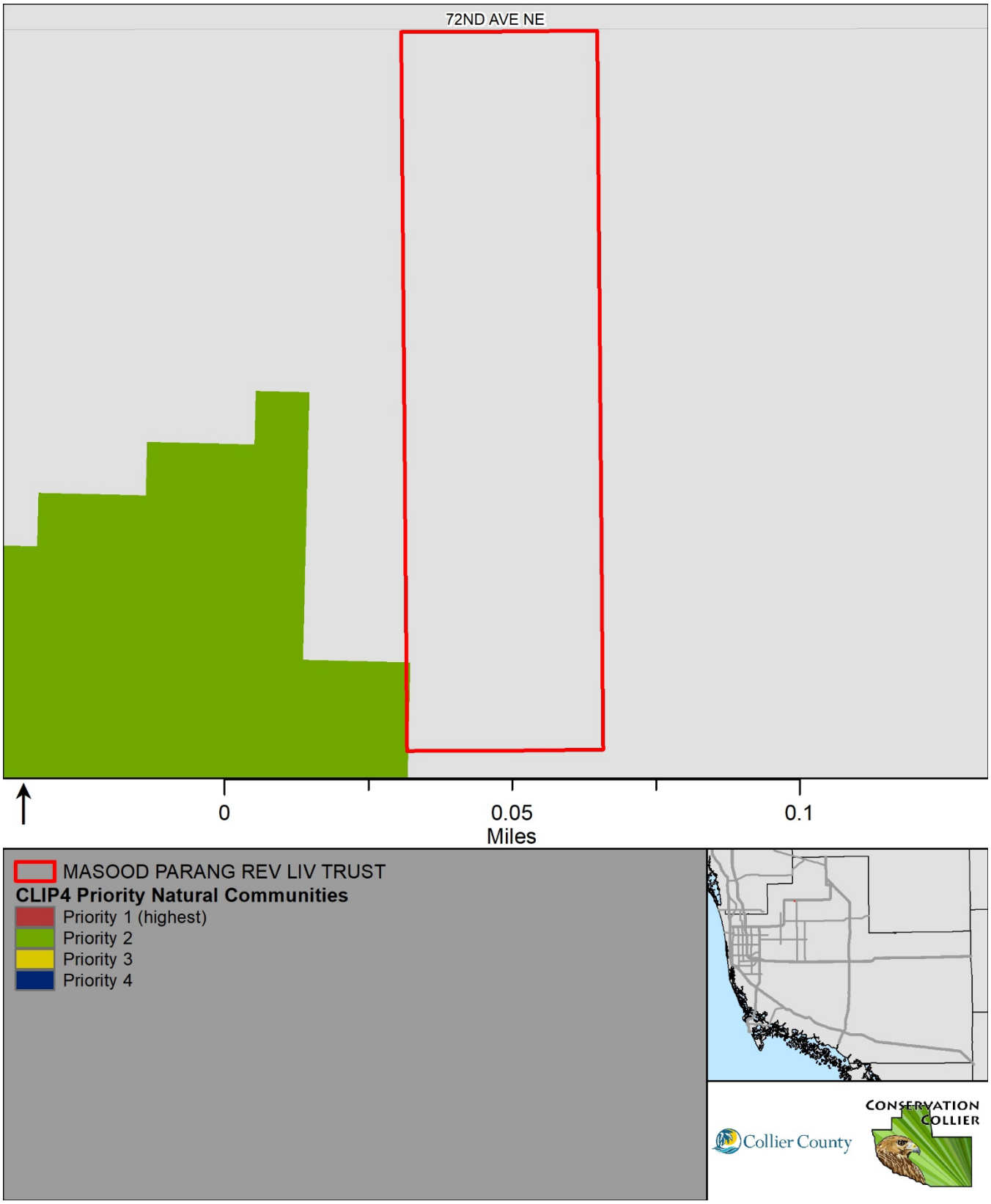


Figure 5 - CLIP4 Priority Natural Communities

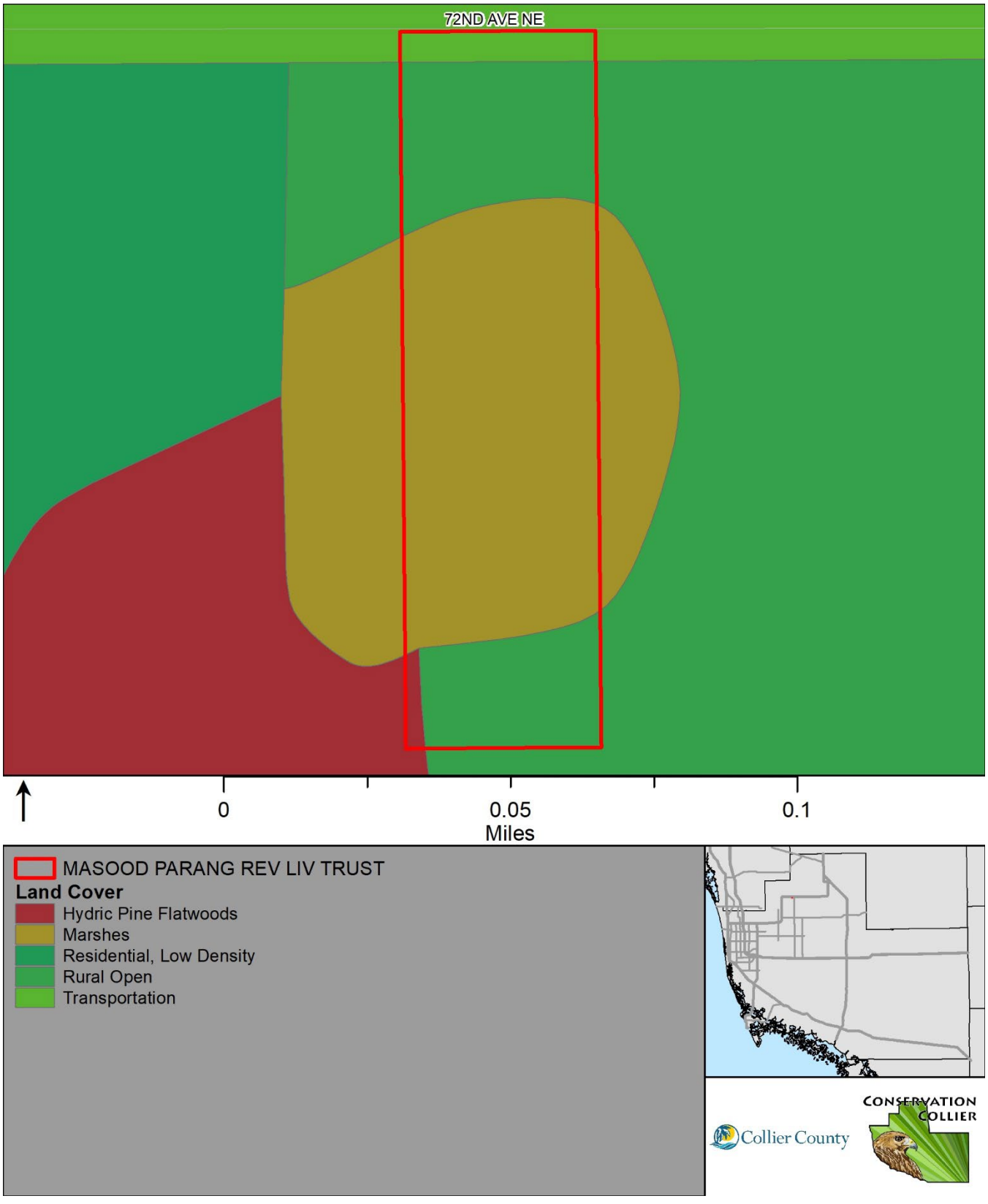


Figure 6 - Florida Cooperative Land Cover Classification System



Figure 7 – Freshwater marsh



Figure 8 – Cypress/mixed hardwood forest

3.1.2 Wildlife Communities

The parcel itself provides habitat for wetland species, including those listed in Table 5. However, the parcel alone does not provide significant habitat unless combined with the surrounding undeveloped land.

Table 5 – Potential Listed Wildlife

Common Name	Scientific Name	State Status	Federal Status
Little blue heron	*Egretta caerulea*	Threatened	n/a
Tricolored heron	*Egretta tricolor*	Threatened	n/a
Wood stork	*Mycteria americana*	Threatened	Threatened
Florida sandhill crane	*Antigone canadensis pratensis*	Threatened	n/a
Everglade snail kite	*Rostrhamus sociabilis plumbeus*	Endangered	Endangered
Florida panther	*Puma concolor coryi*	Endangered	Endangered

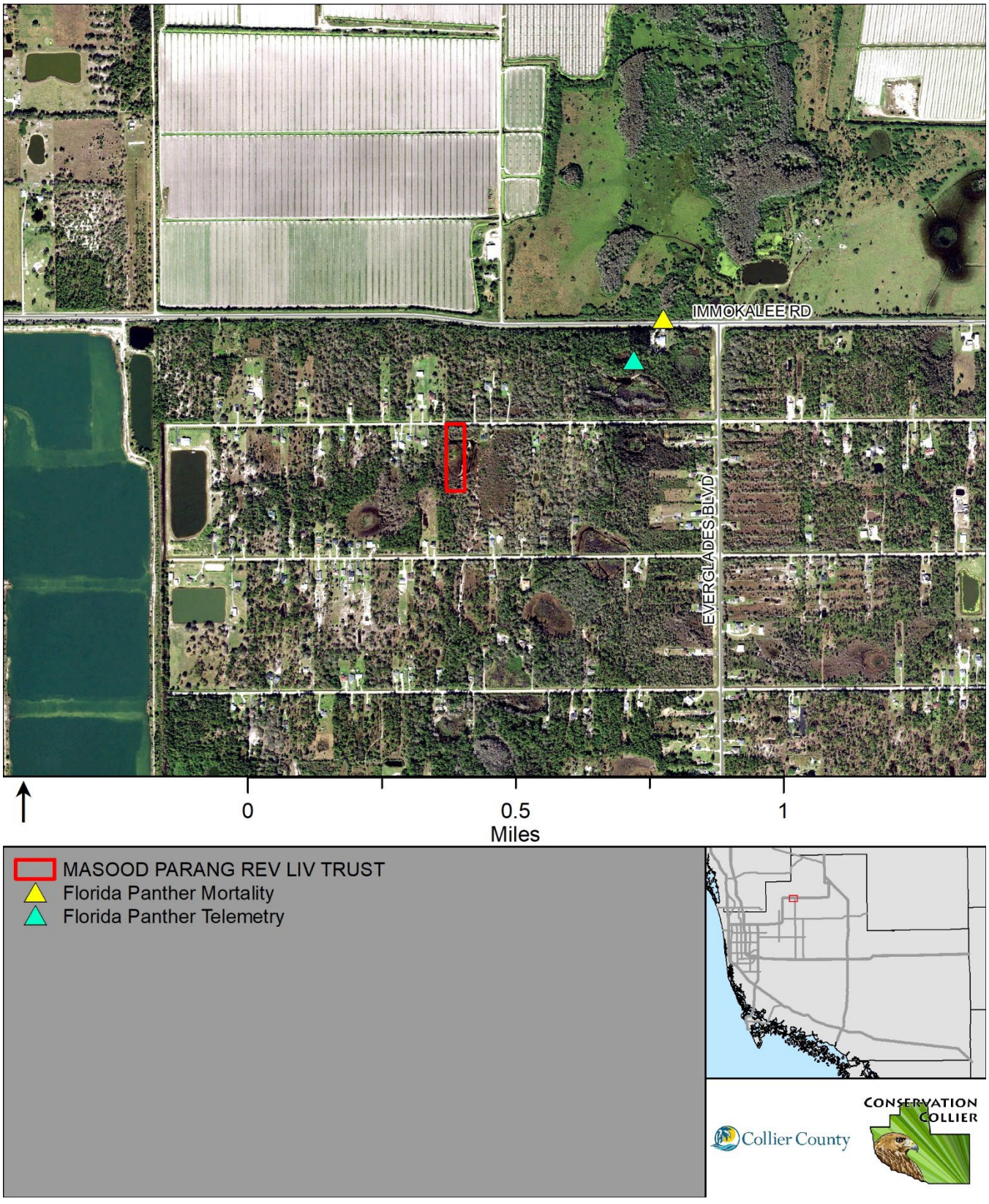


Figure 9 - Wildlife Spatial Data (i.e., telemetry, roosts, etc)

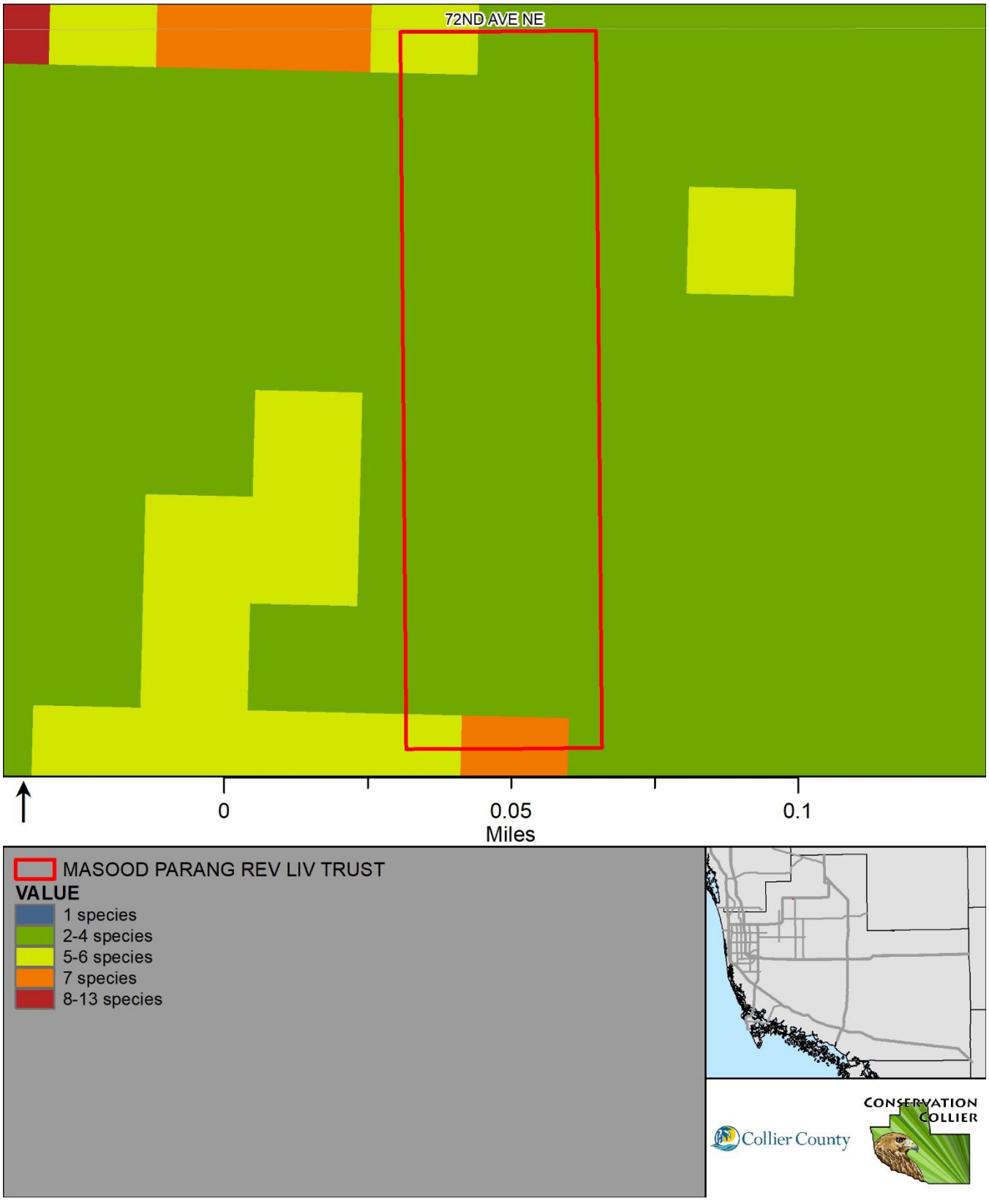


Figure 10 - CLIP4 Potential Habitat Richness

3.1.3 Water Resources

This parcel falls within the historic footprint of the Horsepen Strand. Strands are a type of forested swamp that form slow flowing, linear drainage channels across flatlands with high water tables. The Horsepen Strand begins at Immokalee Rd in the Northern Golden Gate Estates and flows south into the North Belle Meade area located north of I-75. This parcel provides a moderate amount of surficial aquifer recharge and is subject to frequent flooding. This parcel provides flood water attenuation as more land is cleared and filled for development. The parcel also provides habitat for wetland dependent species.

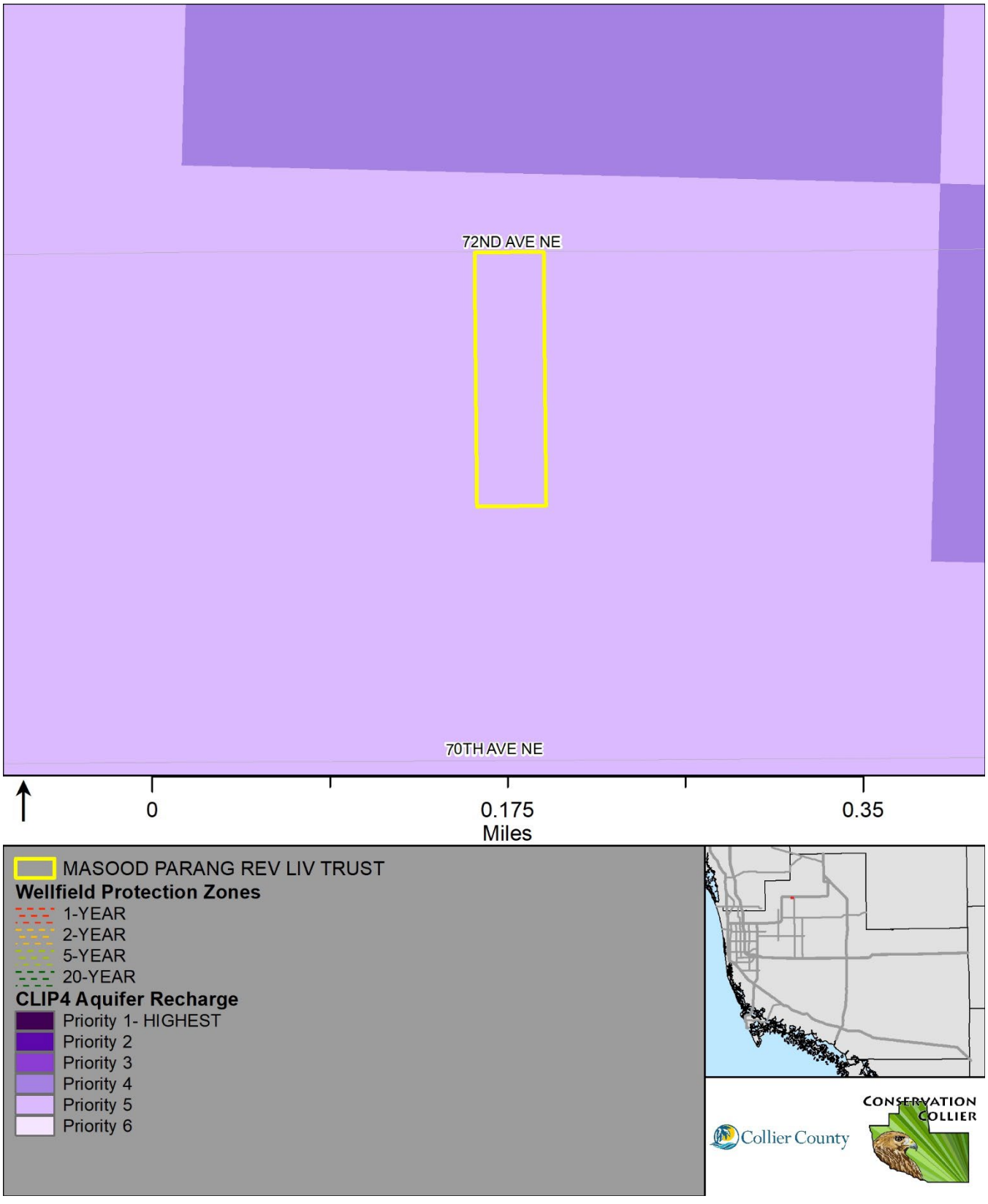


Figure 11 - CLIP Aquifer Recharge Priority and Wellfield Protection Zones

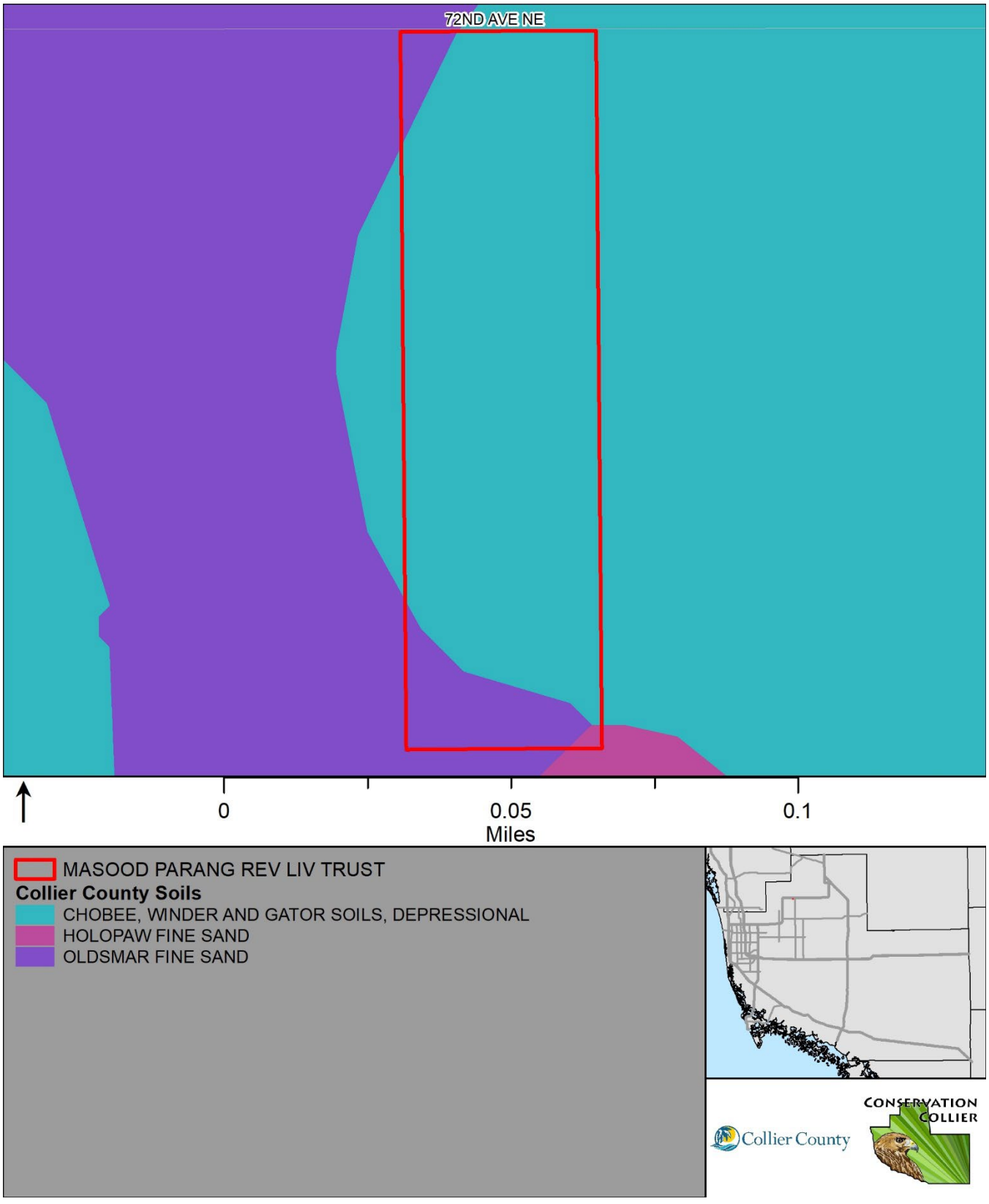


Figure 12 - Collier County Soil Survey

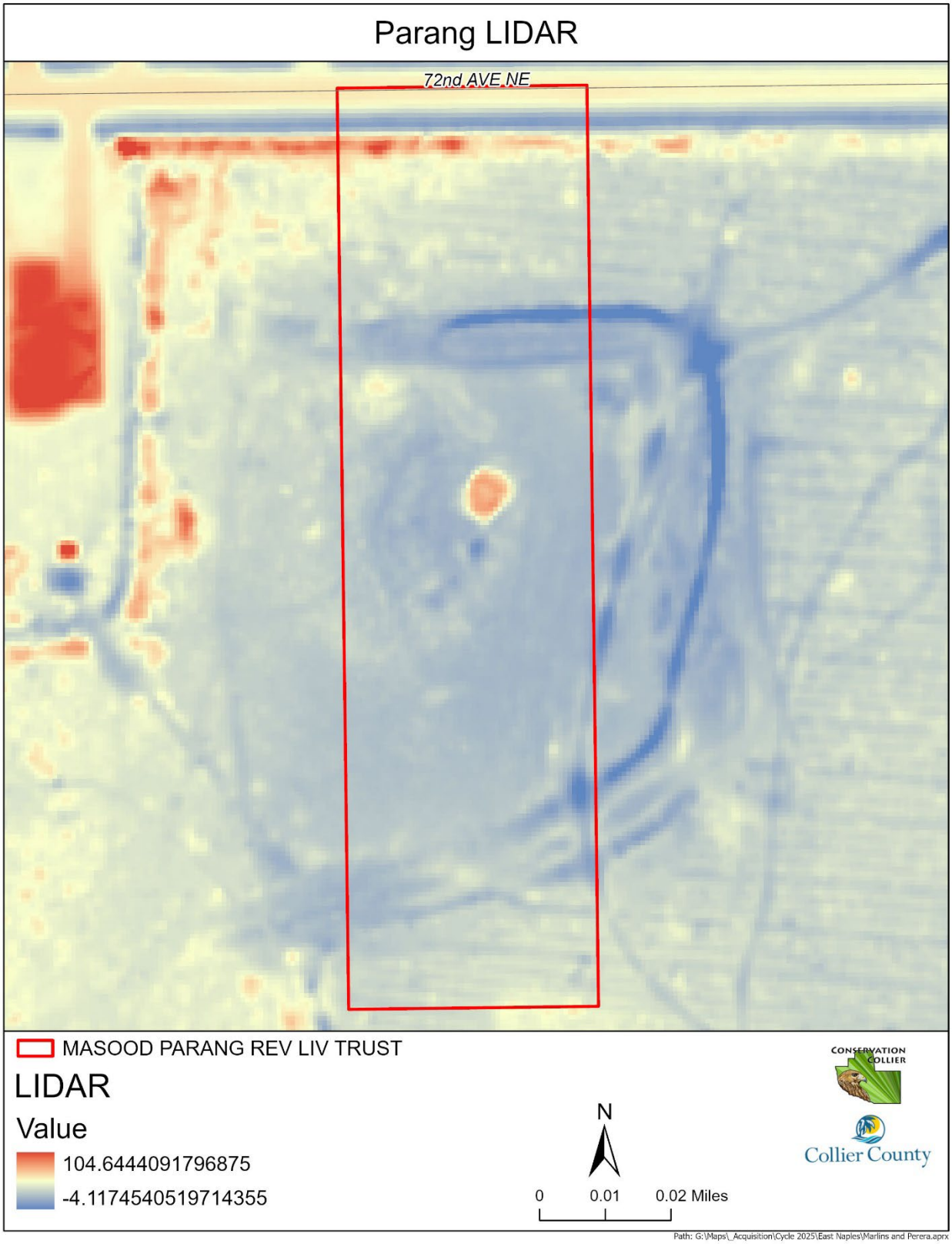


Figure 13 LIDAR Elevation Map

3.1.4 Ecosystem Connectivity

This parcel does not directly connect to conservation land; however, the low-density nature of development in this neighborhood allows wildlife to move relatively unimpeded across the landscape and north into the Corkscrew Regional Ecosystem Watershed.

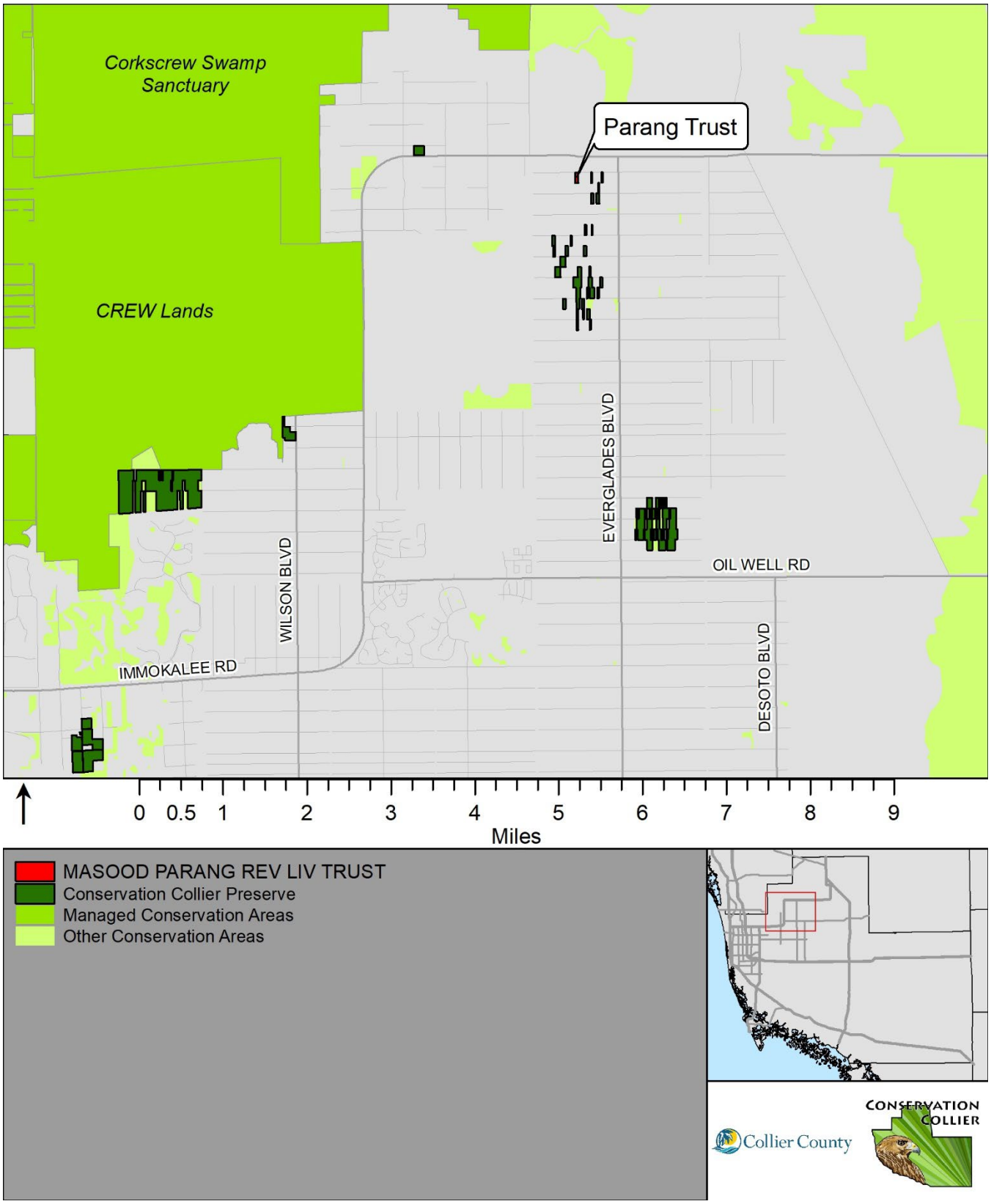


Figure 14 - Conservation Lands

3.2 Human Values

3.2.1 Recreation

This parcel could provide seasonal opportunity for passive nature-based recreation such as hiking and wildlife watching.

3.2.2 Accessibility

Street parking is available along 72nd Ave NE.

3.2.3 Aesthetic/Cultural Enhancement

This parcel provides no outstanding Aesthetic/Cultural Enhancement.

3.2 Restoration and Management

3.3.1 Vegetation Management

3.3.1.1 Invasive Vegetation

Invasive vegetation is relatively high within the marsh. Paragrass, West Indian marsh grass, and Wright's nutrush are the dominant species. Only sparse ear-leaf acacia (*Acacia auriculiformis*) was observed within the other plant communities

3.3.1.2 Prescribed Fire

The majority of this parcel is wetlands which do not require prescribed fire maintenance. Should woody species begin to encroach into the marsh, prescribed fire would be beneficial, but not likely due to the small size of the parcel and surrounding homes.

3.3.2 Remediation and Site Security

There are multiple UTV trails crossing the parcel. Historically, attempts to prevent off-roader trespass have been ineffective, expensive, and have resulted in additional vegetation damage as trespassers have cut new trails to circumvent the installed barriers. Prevention of UTV trespass will be difficult.

3.3.3 Assistance

Assistance is not predicted.

3.4 Vulnerability

3.4.1 Zoning and Land Use

The parcel is Zoned as Estates. Estates zoning provides lands for low density residential development in a semi-rural to rural environment, with limited agricultural activities. Allowable density is 1 unit per 2.25 acres, or 1 unit per lot if under 2.25 acres. In addition to low density residential density with limited agricultural activities, the E district is also designed to accommodate as Conditional Uses, development that provides services for and is compatible with the low density residential, semi-rural and rural character of the E district. The wetland nature of this parcel makes it undesirable for development.

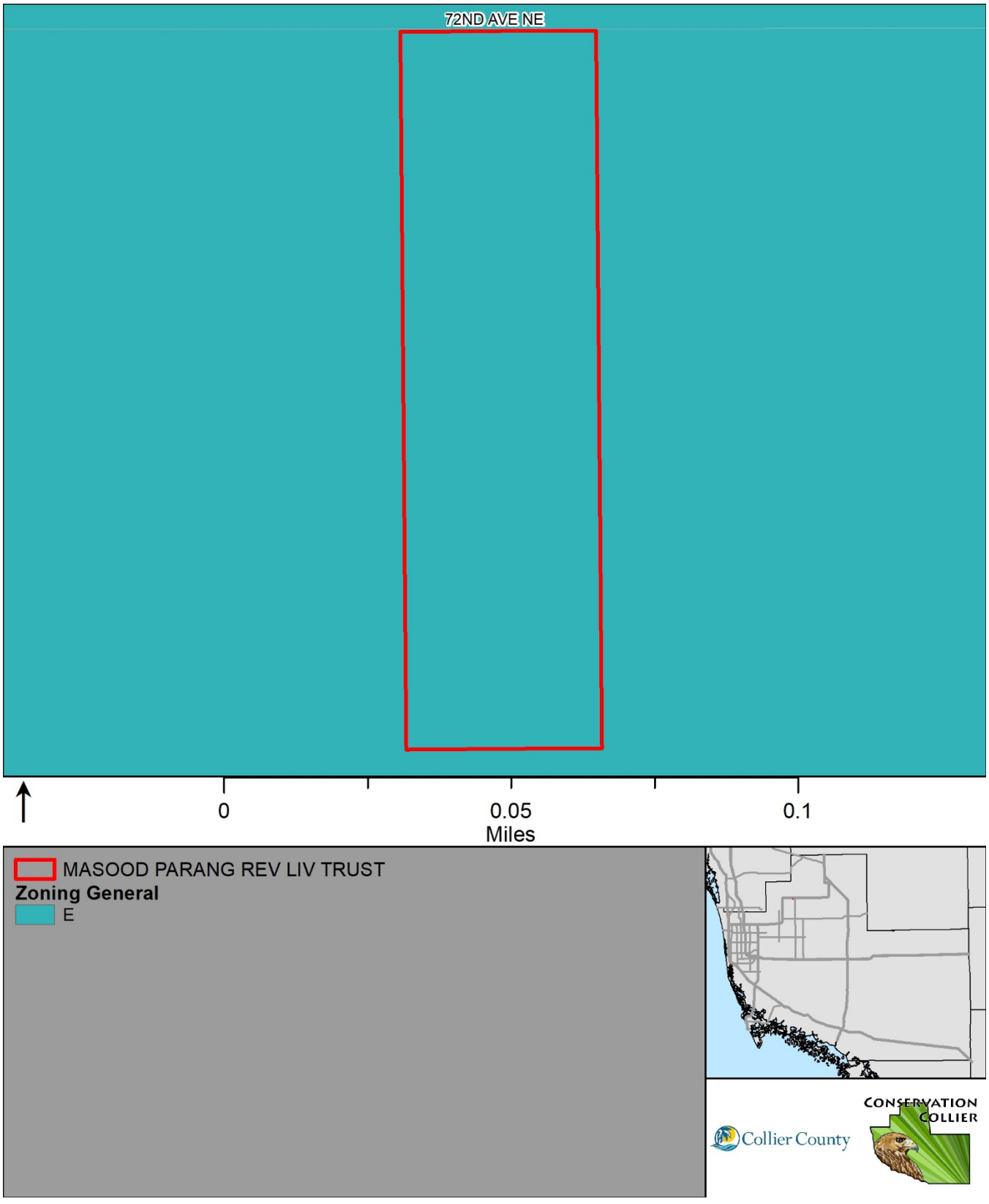


Figure 15 – Zoning

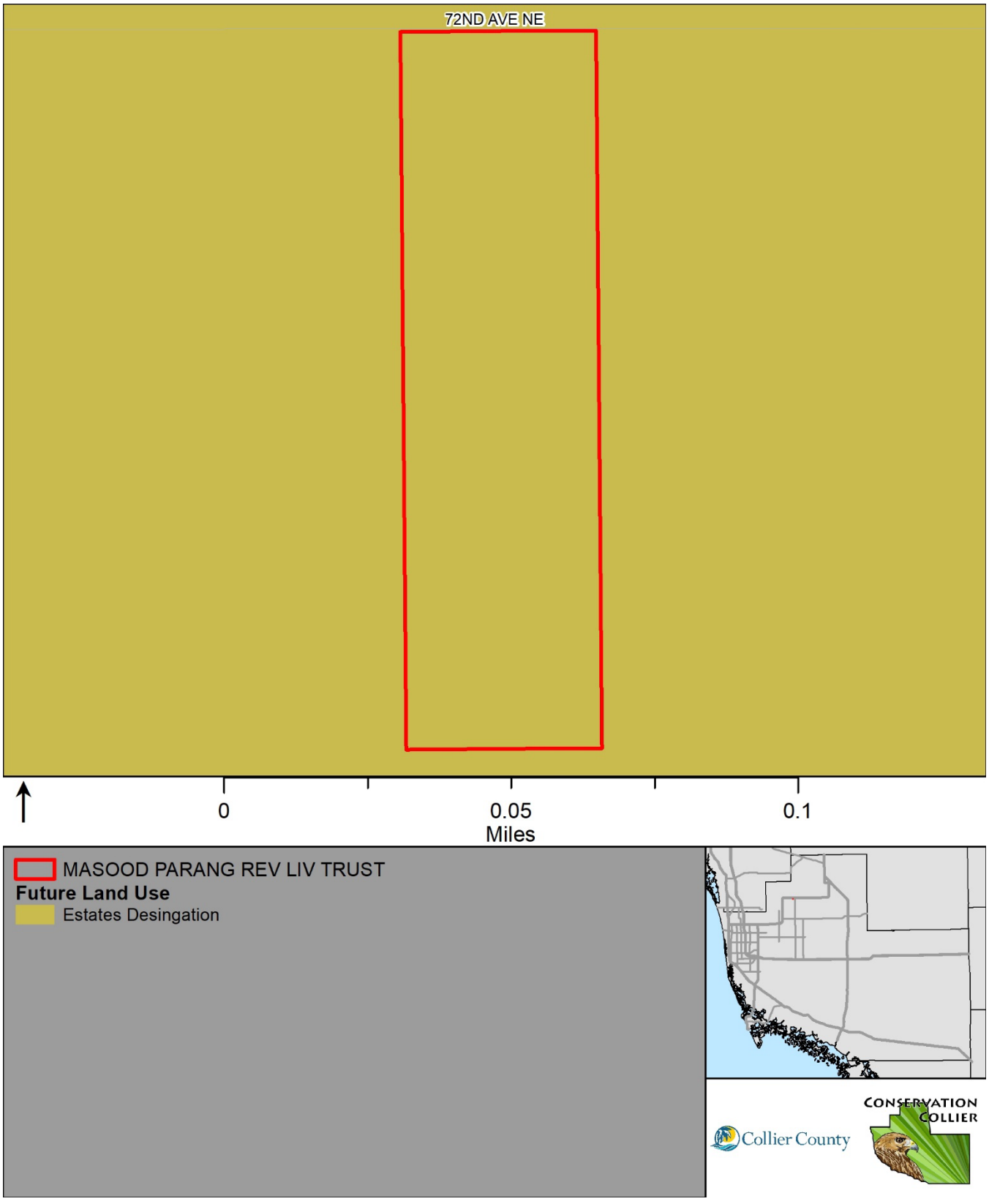


Figure 16 –Future Land Use

3.4.2 Development Plans

Currently, no development is planned for this parcel.

4. Acquisition Considerations

Staff would like to bring the following items to the attention of the Advisory Committee during the review of this property. The following does not affect the scoring. The following are items that will be addressed in the Executive Summary to the Board of County Commissioners if this property moves forward for ranking.

No additional acquisition considerations exist.

5. Management Needs and Costs

Table 6 - Estimated Costs of Site Remediation, Improvements, and Management

Management Element	Initial Cost	Annual Recurring Cost	Comments
Invasive Vegetation Removal	$5,000	$2,500	Treatment of grasses is more expensive than shrubs/trees, and will require two to three treatments annually until manageable.
Signage	$200	$0.00	
Total	**$5,200**	**$2,500**	

6. Potential for Matching Funds

Half of the contract price for this parcel would be funded by the Florida Wildlife Corridor Foundation under their current Memorandum of Understanding executed with Collier County.

7. Secondary Criteria Scoring Form

Property Name: Parang Trust			
Target Protection Mailing Area: None			
Folio(s): 39148120004			
Secondary Criteria Scoring	**Possible Points**	**Awarded Points**	**Percentage**
1 - Ecological Value	**160**	**71**	**44**
2 - Human Value	**80**	**29**	**36**
3 - Restoration and Management	**80**	**25**	**31**
4 - Vulnerability	**80**	**56**	**69**
TOTAL SCORE	**400**	**180**	**45**

1 - ECOLOGICAL VALUES (40% of total)	**Possible Points**	**Awarded Points**	**Comments**
1.1 VEGETATIVE COMMUNITIES	**200**	**140**	
1.1.1 - Priority natural communities (Select highest score)			
a. Parcel contains CLIP4 Priority 1 communities (1130 - Rockland Hammock, 1210 - Scrub, 1213 - Sand Pine Scrub, 1214 - Coastal Scrub, 1312 - Scrubby Flatwoods, 1610 - Beach Dune, 1620 - Coastal Berm, 1630 - Coastal Grasslands, 1640 - Coastal Strand, or 1650 - Maritime Hammock)	100	100	Oak Hammock
b. Parcel contains CLIP4 Priority 2 communities (22211 - Hydric Pine Flatwoods, 2221 - Wet Flatwoods, or 1311 - Mesic Flatwoods)	60		
c. Parcel contains CLIP4 Priority 3 communities (5250 - Mangrove Swamp, or 5240 - Salt Marsh)	50		
d. Parcel contains CLIP4 Priority 4 communities (5250 - Mangrove Swamp)	25		
1.1.2 - Plant community diversity (Select the highest score)			
a. Parcel has ≥ 3 CLC native plant communities (Florida Cooperative Land Cover Classification System native plant communities)	20	20	Marsh; oak hammock; Cypress/mixed hardwood forests
b. Parcel has ≤ 2 CLC native plant communities	10		
c. Parcel has 0 CLC native plant communities	0		
1.1.3 - Listed plant species (excluding commercially exploited species) (Select the highest score)			
a. Parcel has ≥5 CLC listed plant species	30		
b. Parcel has 3-4 CLC listed plant species	20		
c. Parcel has ≤ 2 CLC listed plant species	10		
d. Parcel has 0 CLC listed plant species	0	0	
1.1.4 - Invasive Plant Infestation (Select highest score)			
a. 0 - 10% infestation	50		

b. 10 - 25% infestation	40		
c. 25 - 50% infestation	30		
d. 50 - 75% infestation	20	20	
e. ≥75% infestation	10		
1.2 - WILDLIFE COMMUNITIES	**100**	**70**	
1.2.1 - Listed wildlife species (Select the highest score)			
a. Listed wildlife species documented on the parcel	80		
b. Listed wildlife species documented on adjacent property	60	60	FL panther
c. CLIP Potential Habitat Richness ≥5 species	40		
d. No listed wildlife documented near parcel	0		
1.2.2 - Significant wildlife habitat (Rookeries, roosts, denning sites, nesting grounds, high population densities, etc) (Select highest score)			
a. Parcel protects significant wildlife habitat (Please describe)	20		
b. Parcel enhances adjacent to significant wildlife habitat (Please describe)	10	10	Undeveloped Horsepen Strand
c. Parcel does not enhance significant wildlife habitat	0	0	
1.3 - WATER RESOURCES	**100**	**55**	
1.3.1 - Aquifer recharge (Select the highest score)			
a. Parcel is located within a wellfield protection zone or within a CLIP4 Aquifer Recharge Priority 1 area	40		
b. Parcel is located within a CLIP4 Aquifer Recharge Priority 2 or 3 area	30		
c. Parcel is located within a CLIP4 Aquifer Recharge Priority 4 or 5 area	20	20	
d. Parcel is located within a CLIP4 Aquifer Recharge Priority 6 area	0		
1.3.2 - Surface Water Protection (Select the highest score)			
a. Parcel is contiguous with and provides buffering for an Outstanding Florida Waterbody	30		
b. Parcel is contiguous with and provides buffering for a creek, river, lake, canal or other surface water body	20		
c. Parcel is contiguous with and provides buffering for an identified flowway	15	15	Horsepen Strand
d. Wetlands exist on site	10		
e. Parcel does not provide opportunities for surface water quality enhancement	0		
1.3.3 - Floodplain Management (Select all that apply)			
a. Parcel has depressional or slough soils	10	10	
b. Parcel has known history of flooding and is likely to provide onsite water attenuation	10	10	
c. Parcel provides storm surge buffering	10		

d. Parcel does not provide floodplain management benefits	0		
1.4 - ECOSYSTEM CONNECTIVITY	**200**	**0**	
1.4.1 - Acreage (Select Highest Score)			
a. Parcel is ≥ 300 acres	150		
b. Parcel is ≥ 100 acres	100		
b. Parcel is ≥ 50 acres	75		
c. Parcel is ≥ 25 acres	25		
d. Parcel is ≥ 10 acres	15		
e. Parcel is < 10 acres	0	0	
1.4.2 - Connectivity (Select highest score)			
a. Parcel is immediately contiguous with conservation lands	50		
b. Parcel is not immediately contiguous, but parcels between it and nearby conservation lands are undeveloped	25		
c. Parcel is isolated from conservation land	0	0	
ECOLOGICAL VALUES TOTAL POINTS	**600**	**265**	
ECOLOGICAL VALUES WEIGHTED SCORE (Awarded Points/Possible Points*160)	**160**	**71**	

2 - HUMAN VALUES (20%)	Possible Points	Awarded Points	Comments
2.1 - RECREATION	**120**	**20**	
2.1.1 - Compatible recreation activities (Select all that apply)			
a. Hunting	20		
b. Fishing	20		
c. Water-based recreation (paddling, swimming, etc)	20		
d. Biking	20		
e. Equestrian	20		
f. Passive natural-resource based recreation (Hiking, photography, wildlife watching, environmental education, etc)	20	20	
g. Parcel is incompatible with nature-based recreation	0		
2.2 - ACCESSIBILITY	**120**	**70**	
2.2.1 - Seasonality (Select the highest score)			
a. Parcel accessible for land-based recreation year-round	20		
b. Parcel accessible for land-based recreation seasonally	10	10	
c. Parcel is inaccessible for land-based recreation	0		
2.2.2 - Vehicle access (Select the highest score)			
a. Public access via paved road	50	50	
b. Public access via unpaved road	30		
c. Public access via private road	20		
d. No public access	0		
2.2.3 - Parking Availability (Select the highest score)			
a. Minor improvements necessary to provide on-site parking	40		

b. Major improvements necessary to provide on-site parking (Requires site development plan)	25		
b. Public parking available nearby or on adjacent preserve	20		
c. Street parking available	10	10	
d. No public parking available	0		
2.2.4 - Pedestrian access (Select the highest score)			
a. Parcel is easily accessible to pedestrians (within walking distance of housing development)	10		
b. Parcel is not easily accessible to pedestrians	0	0	
2.3 - AESTHETICS/CULTURAL ENHANCEMENT	**40**	**10**	
2.3.1 - Aesthetic/cultural value (Choose all that apply)			
a. Mature/outstanding native vegetation	5		
b. Scenic vistas	5		
c. Frontage enhances aesthetics of public thoroughfare	10	10	
d. Archaeological/historical structures present	15		
e. Other (Please describe)	5		
f. None	0		
HUMAN VALUES TOTAL SCORE	**280**	**100**	
HUMAN VALUES WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**29**	

3 - RESTORATION AND MANAGEMENT (20%)	Possible Points	Awarded Points	Comments
3.1 - VEGETATION MANAGEMENT	**120**	**50**	
3.1.1 - Invasive plant management needs (Select the highest score)			
a. Minimal invasive/nuisance plant management necessary to restore and maintain native plant communities (<30%)	100		
b. Moderate invasive/nuisance plant management necessary to restore and maintain native plant communities (30-65%)	75		
c. Major invasive/nuisance plant management necessary to restore and maintain native plant communities (>65%)	50	50	
d. Major invasive/nuisance plant management and replanting necessary to restore and maintain native plant communities (>65%)	25		
e. Restoration of native plant community not feasible	0		
3.1.2 - Prescribed fire necessity and compatibility (Select the highest score)			
a. Parcel contains fire dependent plant communities and is compatible with prescribed fire or parcel does not contain fire dependent plant communities	20		
b. Parcel contains fire dependent plant communities and is incompatible with prescribed fire	0	0	
3.2 - REMEDIATION AND SITE SECURITY	**50**	**5**	

3.2.1 - Site remediation and human conflict potential (Dumping, contamination, trespassing, vandalism, other) (Select the highest score)			
a. Minimal site remediation or human conflict issues predicted	50		
b. Moderate site remediation or human conflict issues predicted (Please describe)	20		
c. Major site remediation or human conflict issues predicted (Please describe)	5	5	UTV trespass
d. Resolving site remediation or human conflict issues not feasible	0		
3.3 - ASSISTANCE	**5**	**0**	
3.4.1 - Management assistance by other entity			
a. Management assistance by other entity likely	5		
b. Management assistance by other entity unlikely	0	0	
RESTORATION AND MANAGEMENT TOTAL SCORE	**175**	**55**	
RESTORATION AND MANAGEMENT WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**25**	

4 - VULNERABILITY (20%)	Possible Points	Awarded Points	Comments
4.1 - ZONING AND LAND USE	**130**	**125**	
4.1.1 - Zoning and land use designation (Select the highest score)			
a. Zoning allows for Single Family, Multifamily, industrial or commercial	100	100	
b. Zoning allows for density of no greater than 1 unit per 5 acres	75		
c. Zoning allows for agricultural use /density of no greater than 1 unit per 40 acres	50		
d. Zoning favors stewardship or conservation	0		
4.1.2 - Future Land Use Type (Select the highest score)			
a. Parcel designated Urban	30		
b. Parcel designated Estates, Rural Fringe Receiving and Neutral, Agriculture	25	25	
c. Parcel designated Rural Fringe Sending, Rural Lands Stewardship Area	5		
d. Parcel is designated Conservation	0		
4.2 - DEVELOPMENT PLANS	**50**	**0**	
4.2.1 - Development plans (Select the highest score)			
a. Parcel has been approved for development	20		
b. SFWMD and/or USACOE permit has been applied for or SDP application has been submitted	15		
c. Parcel has no current development plans	0	0	
4.2.2 - Site characteristics amenable to development (Select all that apply)			

a. Parcel is primarily upland	10		
b. Parcel is along a major roadway	10		
c. Parcel is >10 acres	5		
d. Parcel is within 1 mile of a current or planned commercial or multi-unit residential development	5		
VULNERABILITY TOTAL SCORE	**180**	**125**	
VULNERABILITY WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**56**	

8. Additional Site Photos



UTV trail on north side of parcel



Carolina redroot



Oak hammock on north edge of parcel



Swamp fern surrounded by Paragrass in center of property



Cypress/Mixed Hardwoods at southern edge of property



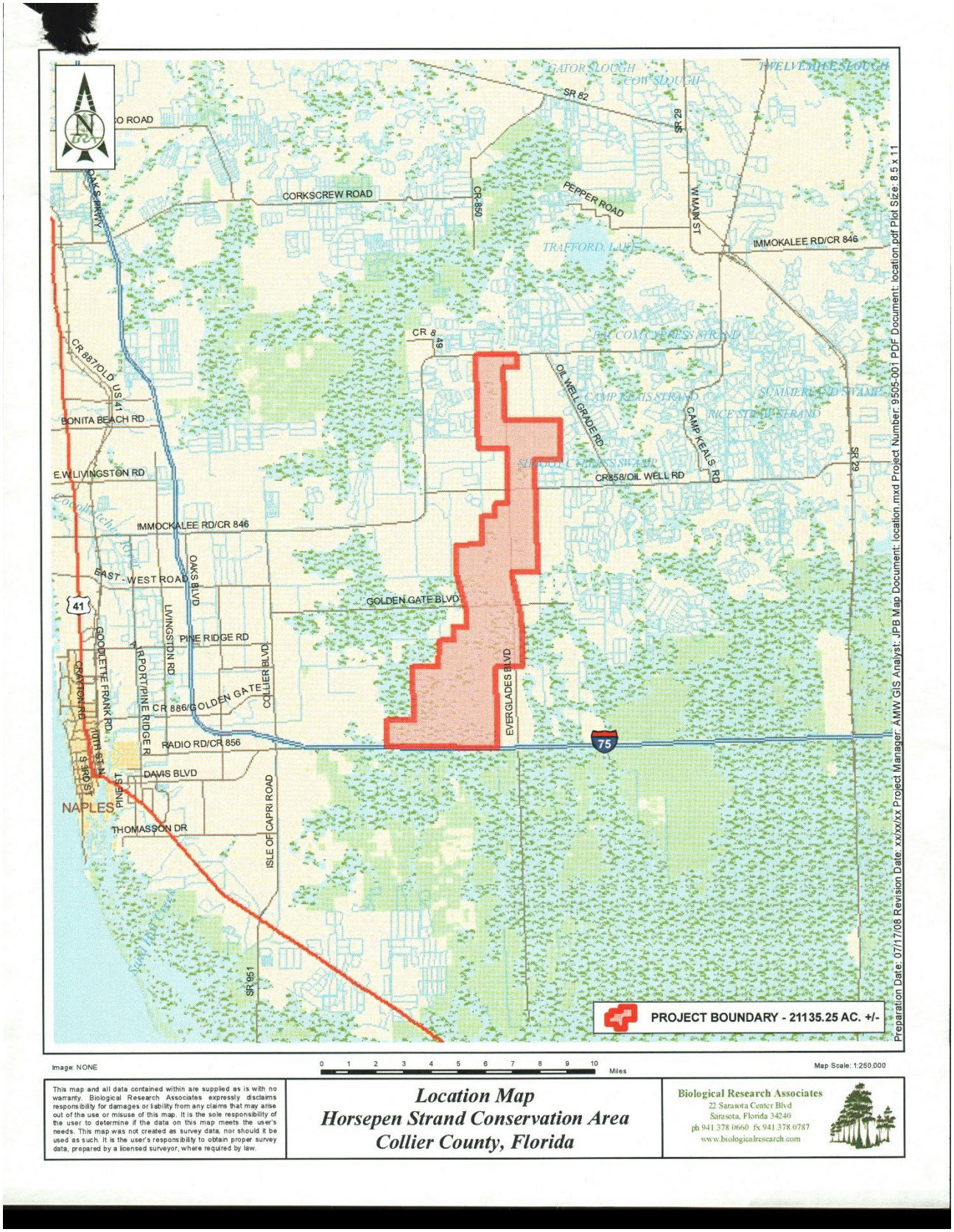
ATV trails in center of property



View looking south



View looking north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CORKSCREW ROAD
CR 850
PEPPER ROAD
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TRAFFORD, LAKE
CR 849
OIL WELL GRADE RD
CAMP KEALS RD
SR 29
CR858/OIL WELL RD
BONITA BEACH RD
E.W.LIVINGSTON RD
IMMOCKALEE RD/CR 846
EAST - WEST ROAD
OAKS BLVD
GOLDEN GATE BLVD
PINE RIDGE RD
LIVINGSTON RD
AIRPORT/PINE RIDGE R
COLLIER BLVD
CR 886/GOLDEN GATE
EVERGLADES BLVD
RADIO RD/CR 856
DAVIS BLVD
NAPLES
THOMASSON DR
ISLE OF CAPRI ROAD
SR 951
PROJECT BOUNDARY - 21135.25 AC. +/-
Image: NONE
Miles
Map Scale: 1:250,000
Preparation Date: 07/17/08 Revision Date: xx/xx/xx Project Manager: AMW GIS Analyst: JPB Map Document: location.mxd Project Number: 9505-001 PDF Document: location.pdf Plot Size: 8.5 x 11
This map and all data contained within are supplied as is with no warranty. Biological Research Associates expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.
Location Map
Horsepen Strand Conservation Area
Collier County, Florida
Biological Research Associates
22 Sarasota Center Blvd
Sarasota, Florida 34240
ph 941 378 0660 fx 941 378 0787
www.biologicalresearch.com

APPENDIX 1 – Critical Lands and Water Identification Maps (CLIP) Definitions

This report makes use of data layers from the Florida Natural Areas Inventory and University of Florida Critical Lands and Waters Identification Project (CLIP4). CLIP4 is a collection of spatial data that identify statewide priorities for a broad range of natural resources in Florida. It was developed through a collaborative effort between the Florida Areas Natural Inventory (FNAI), the University of Florida GeoPlan Center and Center for Landscape Conservation Planning, and the Florida Fish and Wildlife Conservation Commission (FWC). It is used in the Florida Forever Program to evaluate properties for acquisition. CLIP4 is organized into a set of core natural resource data layers which are representative of 5 resource categories: biodiversity, landscapes, surface water, groundwater and marine. The first 3 categories have also been combined into the Aggregated layer, which identifies 5 priority levels for natural resource conservation.

Below is a description of each of the three CLIP4 data layers used in this report.

Figure 5: CLIP4 Priority Natural Communities

Consists of 12 priority natural community types: upland glades, pine rocklands, seepage slopes, scrub, sandhill, sandhill upland lakes, rockland hammock, coastal uplands, imperiled coastal lakes, dry prairie, upland pine, pine flatwoods, upland hardwood forest, or coastal wetlands. These natural communities are prioritized by a combination of their heritage global status rank (G-rank) and landscape context, based on the Land Use Intensity Index (subset of CLIP Landscape Integrity Index) and FNAI Potential Natural Areas. Priority 1 includes G1-G3 communities with Very High or High landscape context. Priority 2 includes G1-G3 Medium and G4 Very High/High. Priority 3 includes G4 Medium and G5 Very High/High. Priority 5 is G5 Medium.

This data layer was created by FNAI originally to inform the Florida Forever environmental land acquisition program. The natural communities were mapped primarily based on the FNAI/FWC Cooperative Land Cover (CLC) data layer, which is a compilation of best-available land cover data for the entire state. The CLC is based on both remote-sensed (from aerial photography, primarily from water management district FLUCCS data) and ground-truthed (from field surveys on many conservation lands) data.

Figure 10: Potential Habitat Richness CLIP4 Map

This CLIP version 4.0 data layer is unchanged from CLIP v3.0. FWC Potential Habitat Richness. Because SHCAs do not address species richness, FWC also developed the potential habitat richness layer to identify areas of overlapping vertebrate species habitat. FWC created a statewide potential habitat model for each species included in their analysis. In some cases, only a portion of the potential habitat was ultimately designated as SHCA for each species. The Potential Habitat Richness layer includes the entire potential habitat model for each species and provides a count of the number of species habitat models occurring at each location. The highest number of focal species co-occurring at any location in the model is 13.

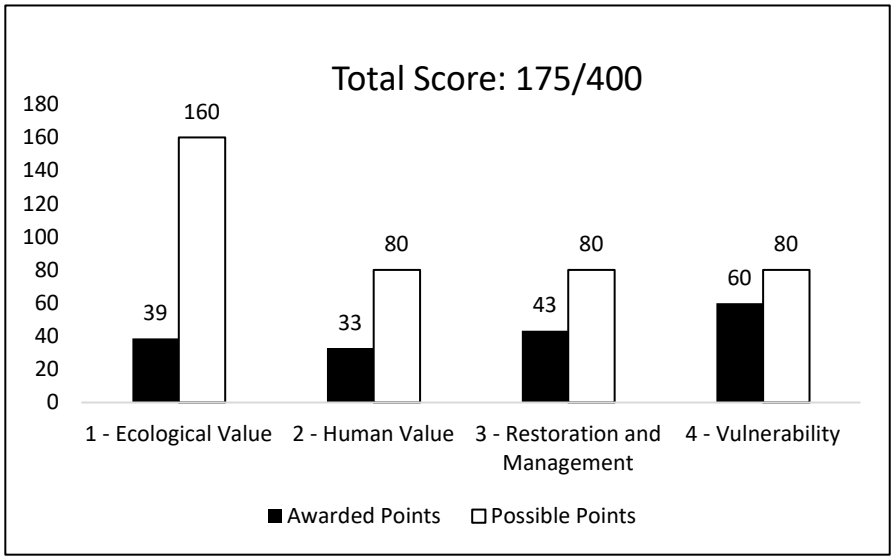
Figure 11: CLIP4 Aquifer Recharge Priority and Wellfield Protection Zones

High priorities indicate high potential for recharge to an underlying aquifer system (typically the Floridan aquifer but could be intermediate or surficial aquifers in some portions of the state). The highest priorities indicate high potential for recharge to springs or public water supplies. This figure also includes Wellfield Protection Zones. Collier County Wellfield Protection Zones are referenced in the Land Development Code and updated in 2010 by Pollution Control and Prevention Department Staff. The public water supply wellfields, identified in section 3.06.06 and permitted by the SFWMD for potable water to withdraw a minimum of 100,000 average gallons per day (GPD), are identified as protected wellfields, around which specific land use and activity (regulated development) shall be regulated under this section.

Conservation Collier
Initial Criteria Screening Report
Gomez



Owner Name: Carlos J. Gomez
Folio Numbers: 41614040004
Size: 2.73 acres
Staff Report Date: December 3, 2025



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1. Introduction

The Conservation Collier Program (Program) is an environmentally sensitive land acquisition and management program approved by the Collier County Board of County Commissioners (Board) in 2002 and by Collier County Voters in 2002 and 2006. The Program was active in acquisition between 2003 and 2011, under the terms of the referendum. Between 2011 and 2016, the Program was in management mode. In 2017, the Collier County Board reauthorized Conservation Collier to seek additional lands (2/14/17, Agenda Item 11B). On November 3, 2020, the Collier County electors approved the Conservation Collier Re-establishment referendum with a 76.5% majority.

This Initial Criteria Screening Report (ICSR) has been prepared for the Conservation Collier Program to meet requirements specified in the Conservation Collier Implementation Ordinance, 2002-63, as amended, and for purposes of the Conservation Collier Program. The sole purpose of this report is to provide objective data to demonstrate how properties meet the criteria defined by the ordinance.

The following sections characterize the property location, elaborate on the initial and secondary screening criteria scoring, and describe potential funding sources, appropriate use, site improvements, and estimated management costs.

2. Summary of Property

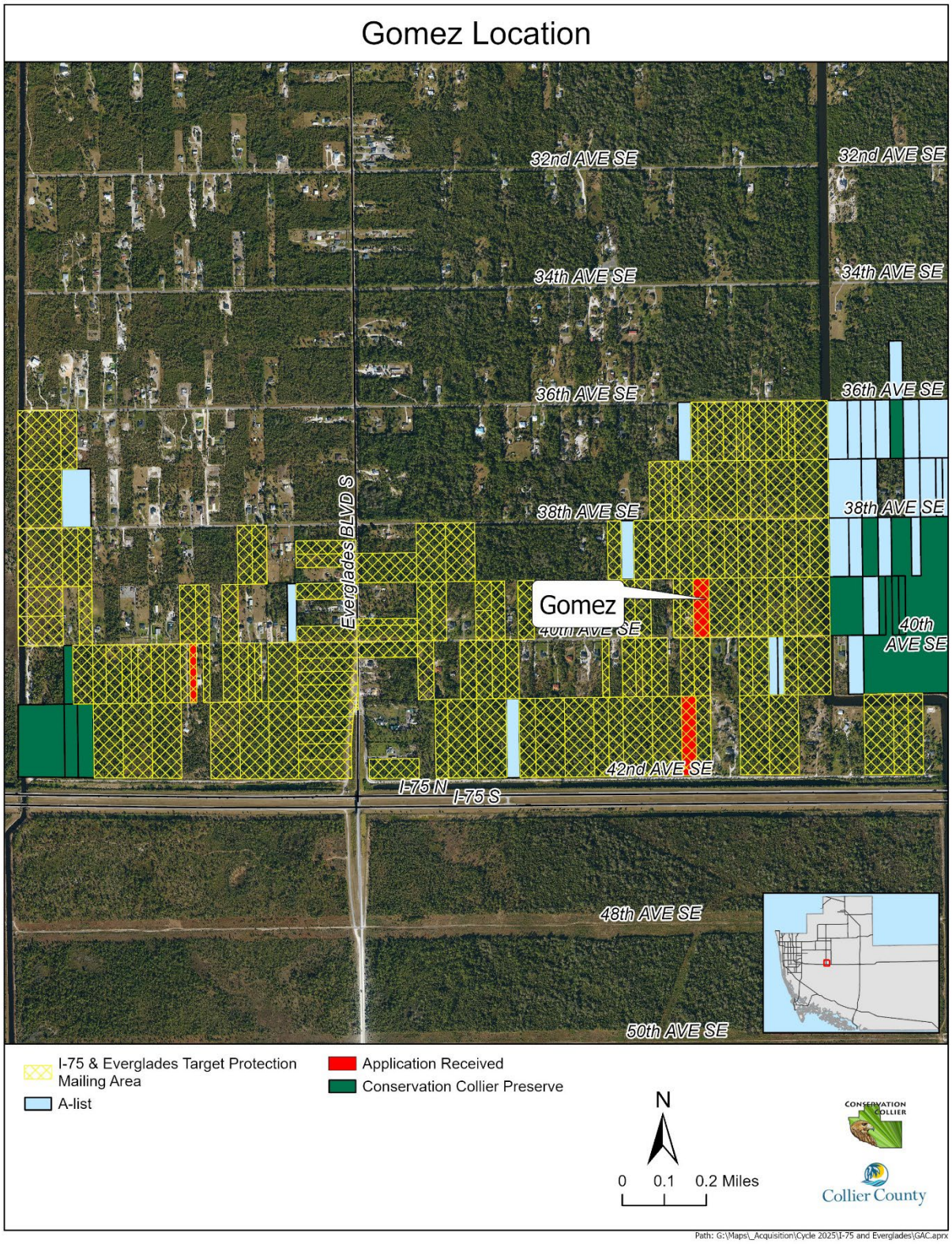


Figure 1 - Parcel Location Overview

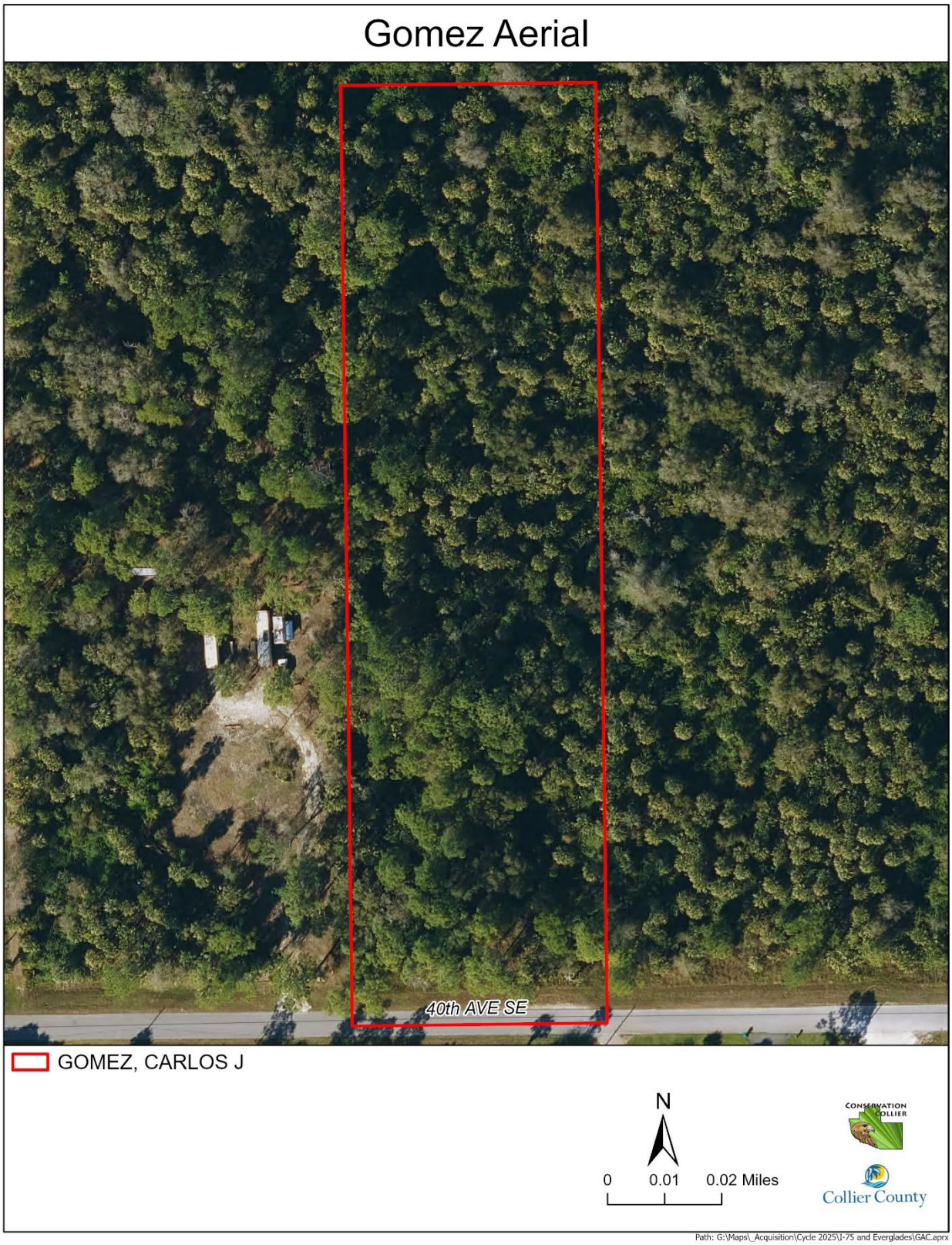


Figure 2 - Parcel Close-up

2.1 Summary of Property Information

Table 1 – Summary of Property Information

Characteristic	Value	Comments
Name	Gomez	Carlos J. Gomez
Folio Numbers	41614040004	
Target Protection Area	NGGE	I-75 and Everglades Blvd. Target Protection Mailing Area
Size	2.73 acres	
Section, Township, and Range	S32, T49, R28	
Zoning Category/TDRs	Estates	1 unit per 2.25 acres
FEMA Flood Map Category	AH	1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage.
Existing structures	None	
Adjoining properties and their Uses	Undeveloped; Developed, rural single-family home	Undeveloped lots to the N, S, and E; Single-family residence to the W.
Development Plans Submitted	None	
Known Property Irregularities	None	
Other County Dept Interest	Transportation	Parcel is in the study area for the I-75 interchange between Everglades and Desoto Blvds.

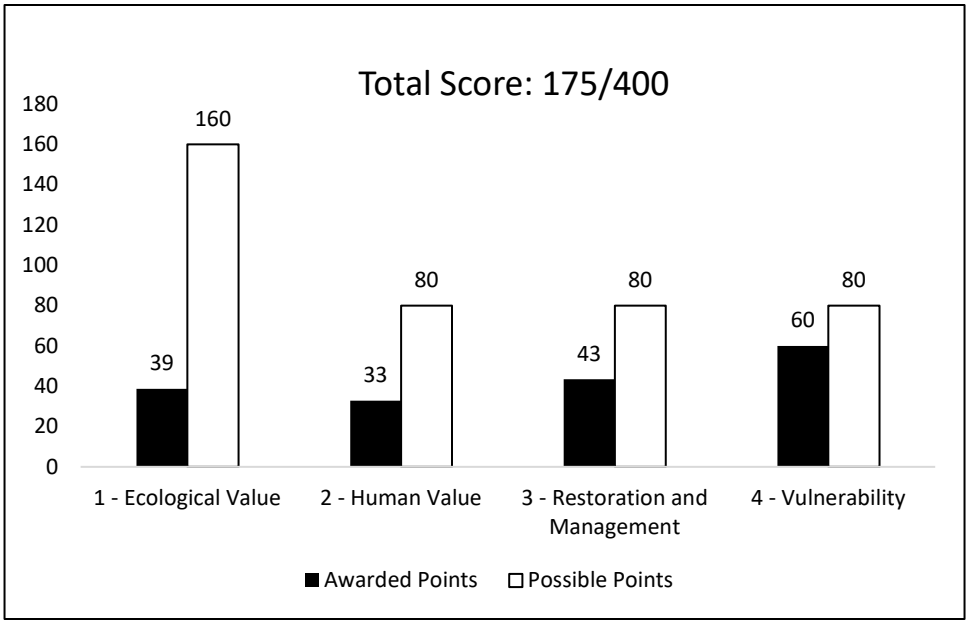


Figure 3 - Secondary Criteria Score

Table 2 - Secondary Criteria Score Summary

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**39**	**160**	**24%**
1.1 - Vegetative Communities	11	53	20%
1.2 - Wildlife Communities	19	27	70%
1.3 - Water Resources	3	27	10%
1.4 - Ecosystem Connectivity	7	53	13%
2 - Human Values	**33**	**80**	**41%**
2.1 - Recreation	6	34	17%
2.2 - Accessibility	23	34	67%
2.3 - Aesthetics/Cultural Enhancement	4	11	38%
3 - Restoration and Management	**43**	**80**	**54%**
3.1 - Vegetation Management	34	55	63%
3.2 - Remediation and Site Security	9	23	40%
3.3 - Assistance	0	2	0%
4 - Vulnerability	**60**	**80**	**75%**
4.1 - Zoning and Land Use	56	58	96%
4.2 - Development Plans	4	22	20%
Total	**175**	**400**	**44%**

2.2 Initial Screening Criteria Satisfaction (Ord. 2002-63, as amended, Sec. 12)

Criteria 1: CLIP Priority 1 Natural Community

Does the property contain Upland Hardwood Forest, Scrub, Coastal Upland, Dry Prairie, or Upland Pine? **YES**

The parcel contains Cabbage Palm/Pine/Oak hammock.

Criteria 2: CLIP Priority 2 Natural Community

Does the property contain Pine Flatwoods or Coastal Wetlands? **NO**

Criteria 3: Other Native, Natural Communities

Does the property contain other native, natural communities? **NO**

Criteria 4: Human Social Values

Does the property offer cultural values, appropriate access for natural resource-based recreation, and the enhancement of the aesthetic setting of Collier County? **YES**

The parcel is visible and readily accessible from a public roadway and can be accessed year-round.

Criteria 5: Water Resources

Does the property offer opportunities for protection of water resource values, including aquifer recharge, water quality enhancement, protection of wetland dependent species habitat, wildfire risk reduction, storm surge protection, and flood control? **NO**

Despite being mapped as containing hydric soils, no wetlands appear to exist on-site.

Criteria 6: Biological and Ecological Value

Does the property offer significant biological values, including biodiversity and listed species habitat? **NO**
Because of its small size, this parcel individually does not offer significant biological values.

Criteria 7: Enhancement of Current Conservation Lands

Does the property enhance and/or protect the environmental value of current conservation lands through function as a buffer, ecological link or habitat corridor? **NO**

The parcel is not adjacent to any conservation lands, but lands between it and conservation lands are undeveloped.

Criteria 8: Target Area

Is the property within a Board-approved target protection mailing area? **YES**

I-75 and Everglades Blvd. TPMA

The Gomez parcel met 3 out of the 8 Initial Screening Criteria.

3. Initial Screening Criteria

3.1 Ecological Values

3.1.1 Vegetative Communities

The parcel was mapped as containing Mixed Wetland Hardwoods; however, staff observed what is best described as Cabbage Palm/Pine/Oak hammock on the parcel.

The cabbage palm/pine/oak hammock canopy is dominated by cabbage palm (*Sabal Palmetto*), slash pine (*Pinus elliottii*), and laurel oak (*Quercus laurifolia*). The midstory consists of myrsine (*Myrsine cubana*) and wild coffee (*Psychotria* spp.). The understory consists of a very thick pine needle layer and muscadine (*Vitis rotundifolia*), greenbriers (*Smilax* spp.), and swamp fern (*Telmatoblechnum serrulatum*) with occasional wire grass (*Aristida stricta*).

Exotic plants are present at a total estimated density of about 30%. The primary invasive plant observed was Brazilian pepper (*Schinus terebinthifolia*). Caesarweed (*Urena lobata*) and what appeared to be tanglehead grass (*Heteropogon contortus*) were also observed.

No listed species were observed on the property during the site visit.

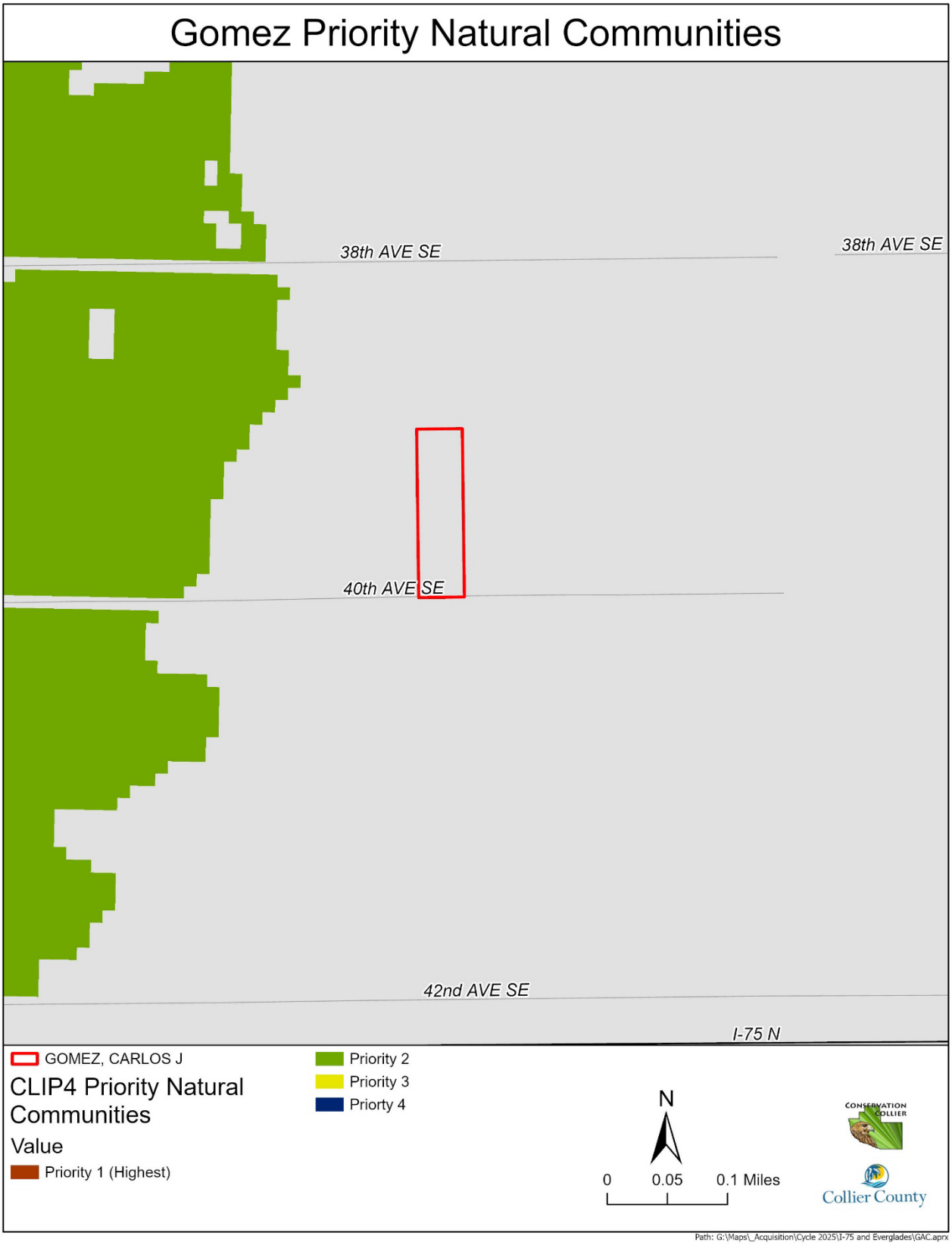


Figure 4 - CLIP4 Priority Natural Communities

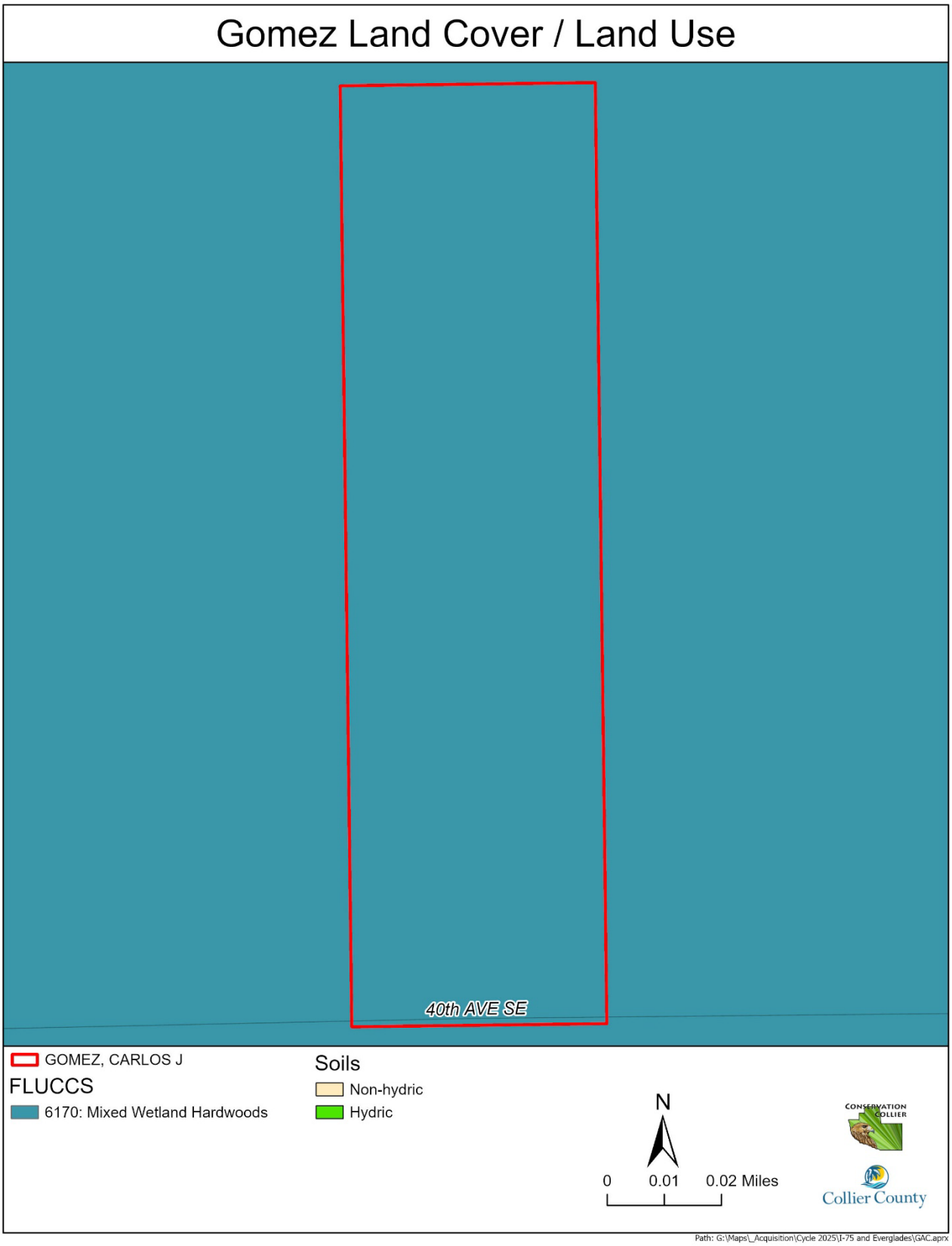


Figure 5 - Florida Cooperative Land Cover Classification System



Figure 6 – Cabbage Palm/Pine/Oak Hammock

3.1.2 Wildlife Communities

Multiple Florida panther (*Puma concolor coryi*) and Florida black bear (*Ursus americanus floridanus*) telemetry points have been noted around the parcel.

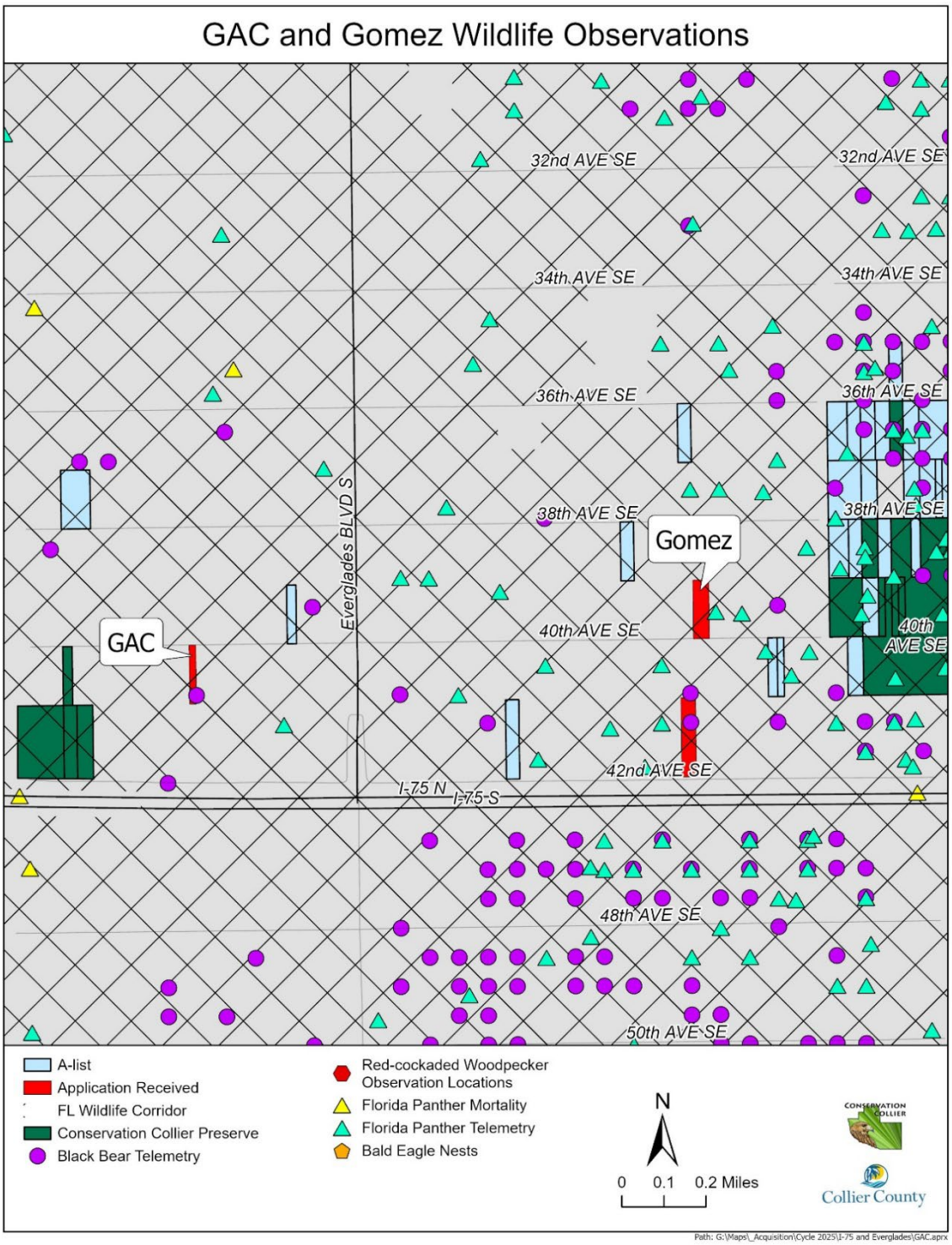


Figure 7 - Wildlife Spatial Data (i.e., telemetry, roosts, etc)



Figure 8 - CLIP4 Potential Habitat Richness

3.1.3 Water Resources

The parcel does little to protect water resources. It is mapped as containing hydric soils, but no wetlands appear to exist on site. Additionally, aquifer recharge mapping indicates very little contribution to recharge.

Soils data is based on the Soil Survey of Collier County Area, Florida (USDA/NRCS, 1990). Soils mapped on the parcel are hydric. Mapped soils include “Hallandale and Boca Fine Sand” (nearly level, poorly drained soil associated with sloughs and poorly defined drainageways). The plant communities normally associated with these soils were not present on the parcel.

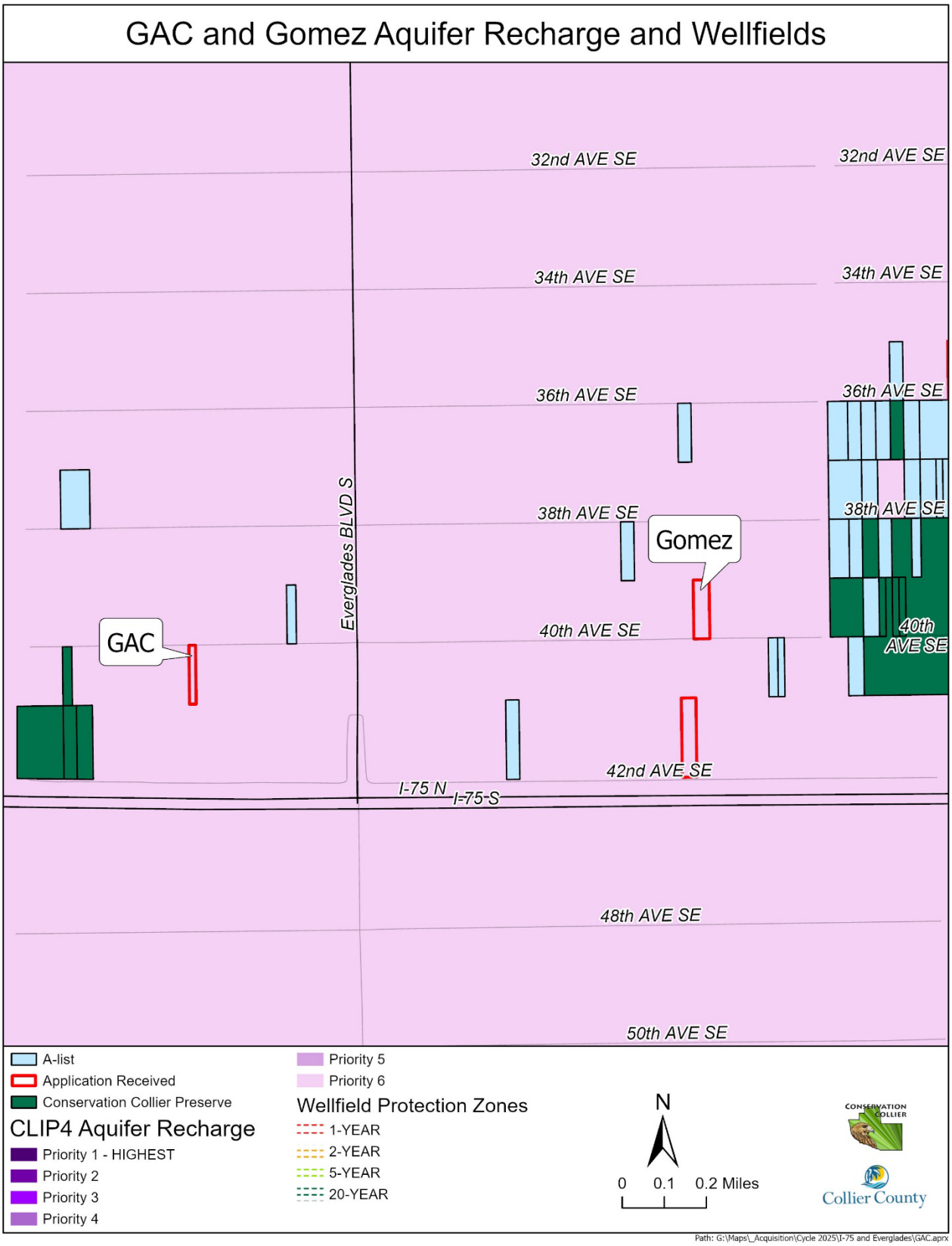


Figure 9 - CLIP Aquifer Recharge Priority and Wellfield Protection Zones



Figure 10 - Collier County Soil Survey

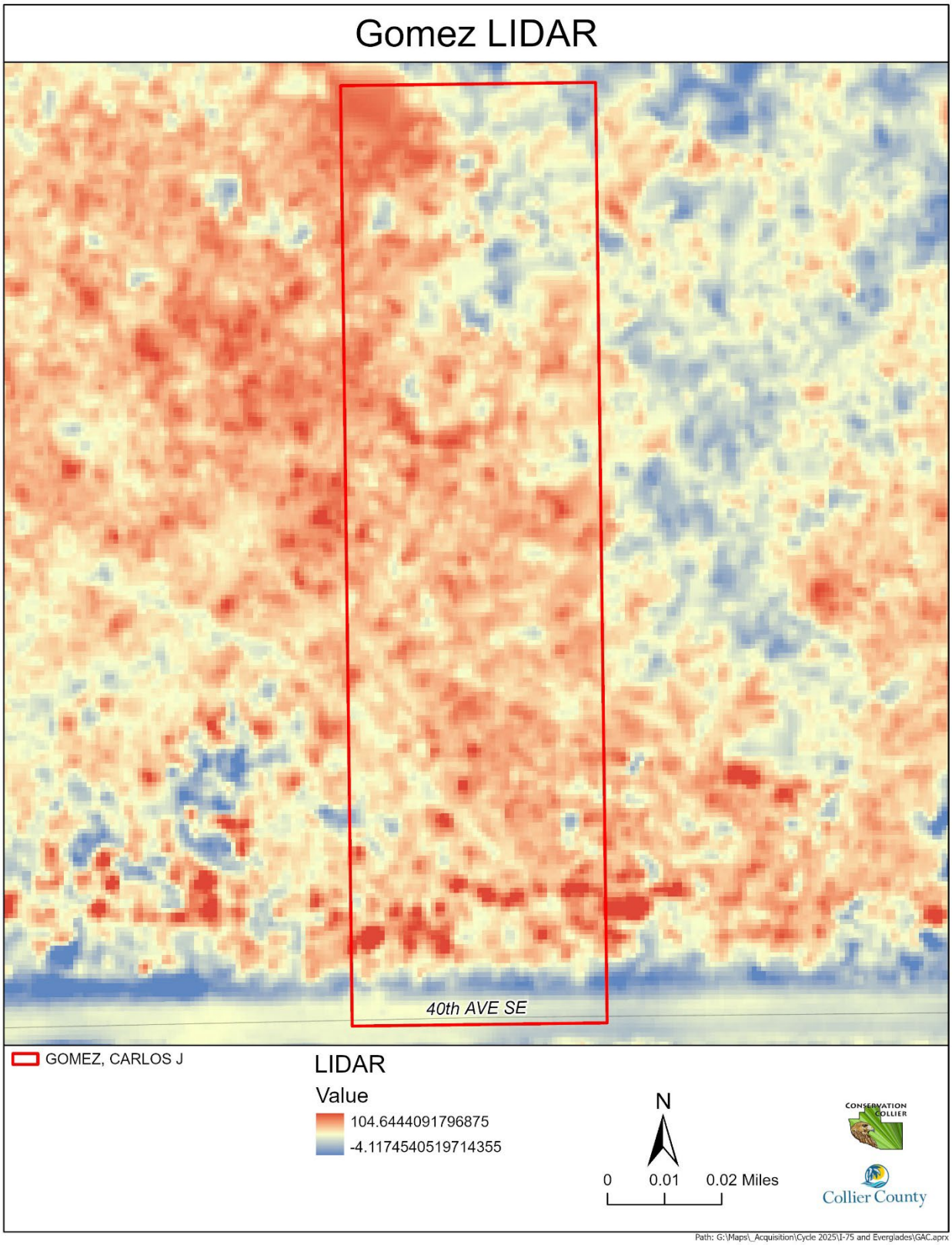


Figure 11 LIDAR Elevation Map

3.1.4 Ecosystem Connectivity

This parcel is not directly adjacent to conservation lands; however, undeveloped lands exist between the parcel and the Dr. Robert H. Gore Preserve to the west and Picayune Strand State Forest to the south. The low-density nature of development in this area allows wildlife to move relatively unimpeded across the landscape.

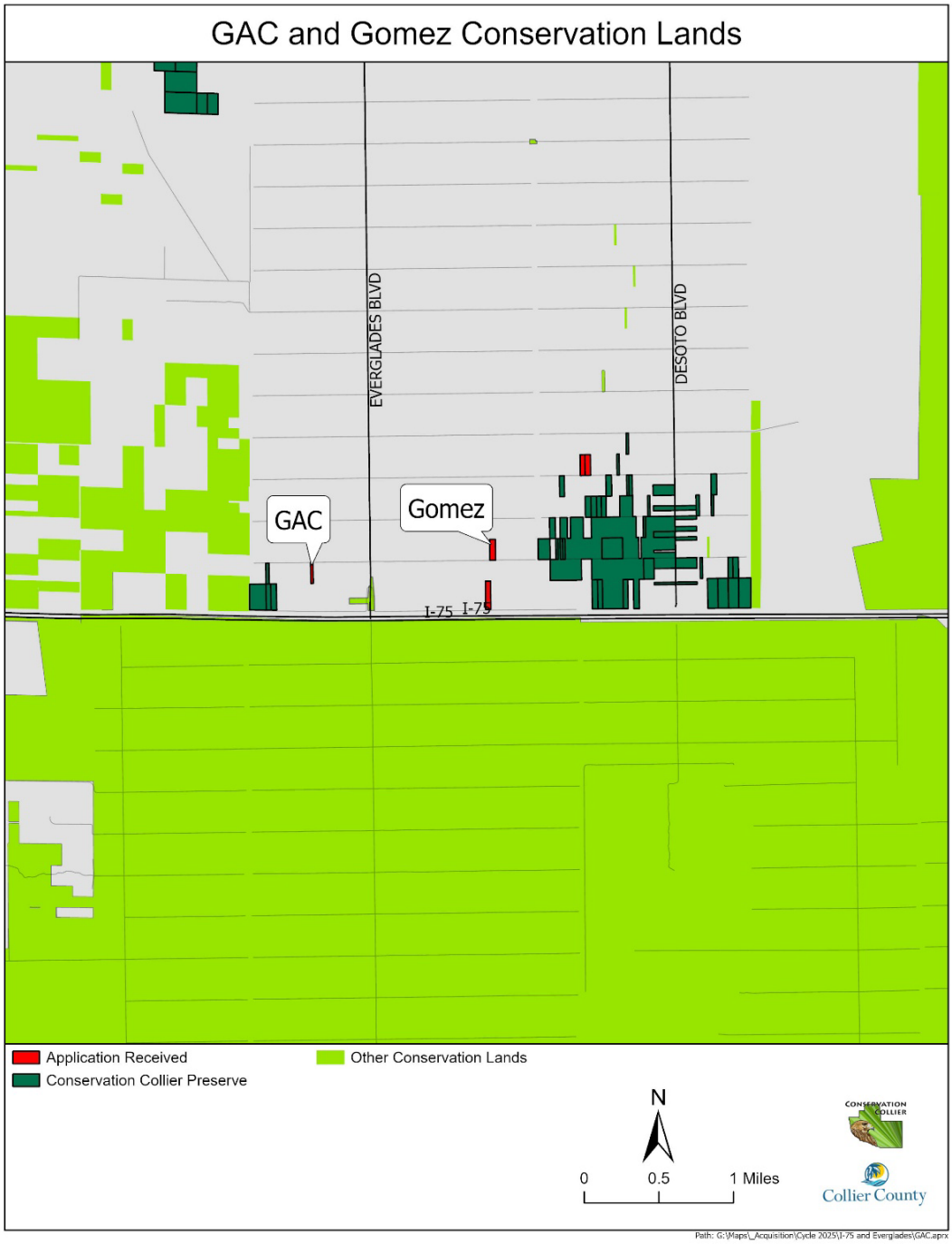


Figure 12 - Conservation Lands

3.2 Human Values

3.2.1 Recreation

This parcel could provide year-round access for passive, recreational activities like hiking.

3.2.2 Accessibility

The parcel is accessible via a paved road. Parking is available along 40th Ave. SE.

3.2.3 Aesthetic/Cultural Enhancement

The parcel is visible from a public road.

3.2 Restoration and Management

3.3.1 Vegetation Management

3.3.1.1 Invasive Vegetation

Exotic plants are present at a total estimated density of approximately 30%. The primary invasive plant observed was Brazilian pepper. Caesarweed and what appeared to be tanglehead grass were also observed. The parcel would also benefit from cabbage palm reduction.

3.3.1.2 Prescribed Fire

The natural community would benefit from fire; however, due to the parcel's small size and location, prescribed fire is not likely.

3.3.2 Remediation and Site Security

No site security issues appear to exist within the parcel

3.3.3 Assistance

No management assistance is anticipated.

3.4 Vulnerability

3.4.1 Zoning and Land Use

The parcel is zoned Estates and has an allowable density of 1 unit per 2.25 acres, which would allow for one single-family residence on the parcel.

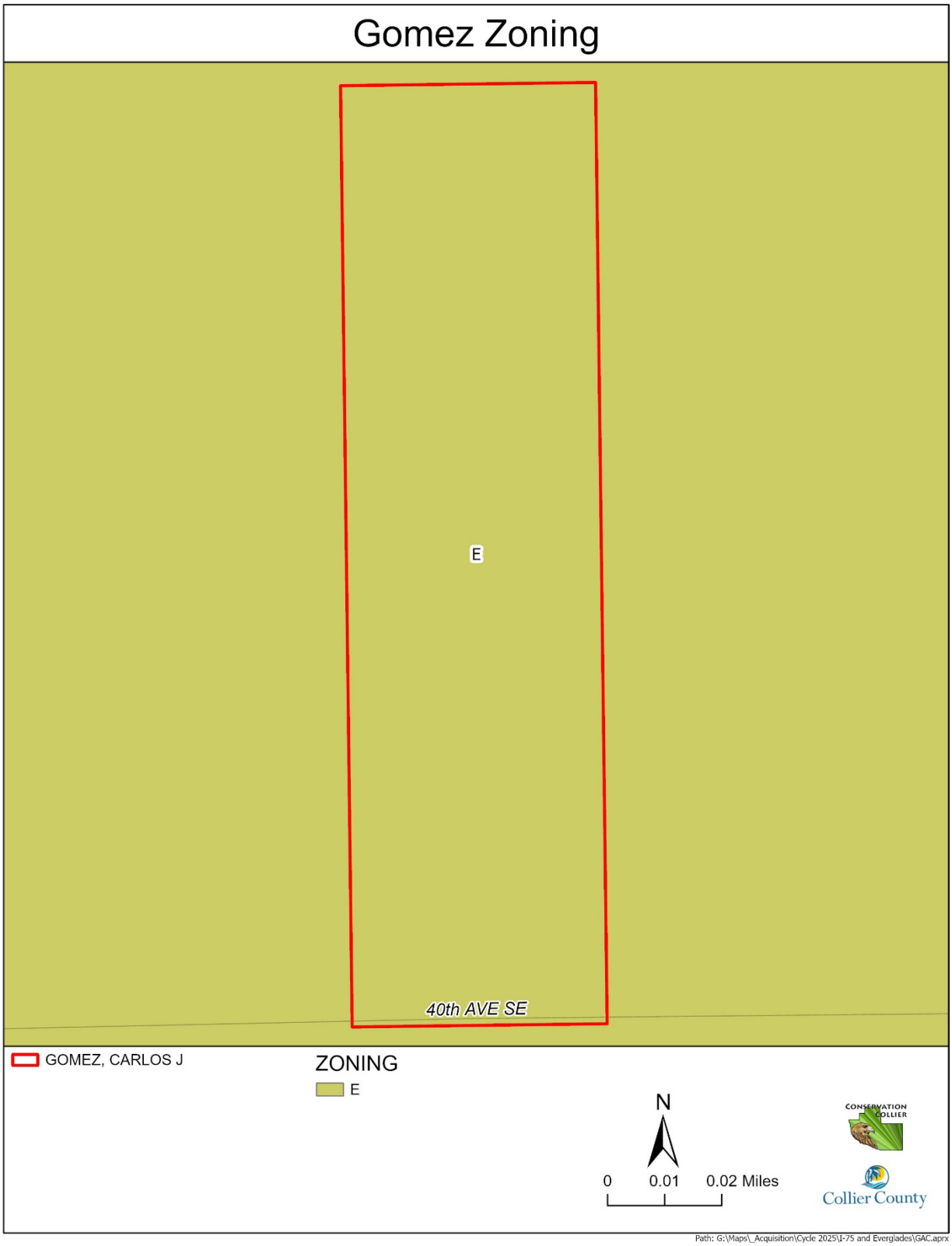


Figure 13 – Zoning

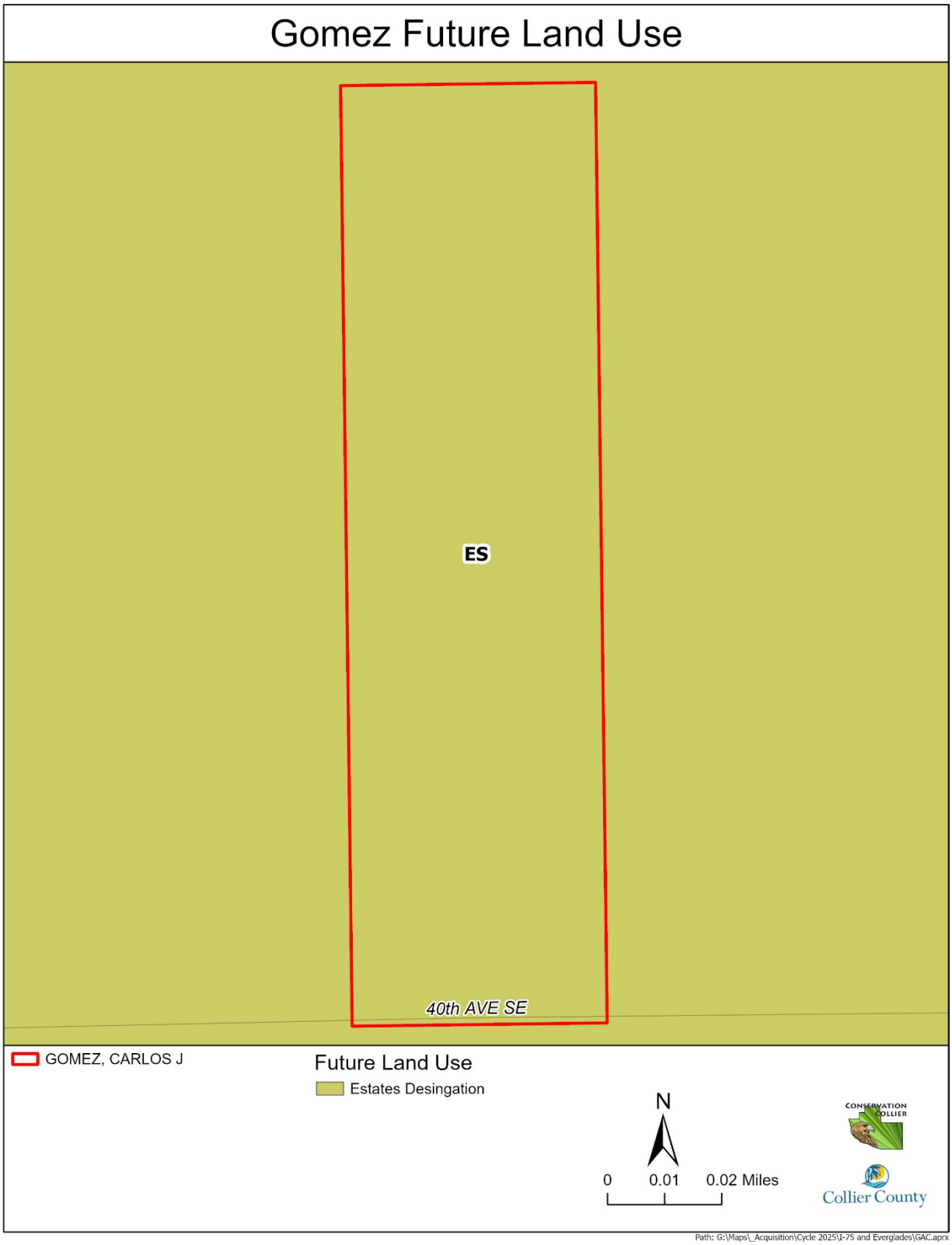


Figure 14 – Future Land Use

3.4.2 Development Plans

The parcel is not currently planned for development.

4. Acquisition Considerations

Staff would like to bring the following items to the attention of the Advisory Committee during the review of this property. The following items may not have significantly affected the scoring but are worth noting.

This parcel is within the study area for the I-75 interchange. The properties in this location could be impacted by future right-of-way needs or for stormwater ponds to support the right-of-way. If this property is approved for the A-List, staff will take this information into consideration when planning amenities and public access on the site. Additionally, when applicable, language will be memorialized in the Purchase Agreement and related closing documents to ensure Collier County Transportation will be able to purchase a portion of the property from Conservation Collier for future right-of-way, if and when needed, at the original per-acre acquisition cost.

5. Management Needs and Costs

Table 3 - Estimated Costs of Site Remediation, Improvements, and Management

Management Element	Initial Cost	Annual Recurring Cost	Comments
Invasive Vegetation Removal	$1,100	$410	Initial assumes $400/acre; recurring assumes $150/acre
Cabbage Palm Reduction	$1,100	N/A	Assumes $400/acre
TOTAL	**$2,200**	**$410**	

6. Potential for Matching Funds

The primary partnering agencies for conservation acquisitions, and those identified in the ordinance are the Florida Communities Trust (FCT) and The Florida Forever Program. The following highlights potential for partnering funds, as communicated by agency staff.

Florida Communities Trust - Parks and Open Space Florida Forever grant program: The FCT Parks and Open Space Florida Forever grant program provides grant funds to local governments and nonprofit organizations to acquire conservation lands, urban open spaces, parks and greenways. Application for this program is typically made for pre-acquired sites up to two years from the time of acquisition. The Parks and Open Space Florida Forever grant program assists the Department of Environmental Protection in helping communities meet the challenges of growth, supporting viable community development and protecting natural resources and open space. The program receives 21 percent Florida Forever appropriation.

Florida Forever Program: The Conservation Collier Program has not been successful in partnering with the Florida Forever Program due to conflicting acquisition policies and issues regarding joint title between the programs.

Additional Funding Sources: There are no additional funding sources known at this time.

7. Secondary Criteria Scoring Form

Property Name: Gomez parcel			
Target Protection Mailing Area: I-75 and Everglades Blvd.			
Folio(s): 41614040004			
Secondary Criteria Scoring	**Possible Points**	**Awarded Points**	**Percentage**
1 - Ecological Value	**160**	**39**	**24**
2 - Human Value	**80**	**33**	**41**
3 - Restoration and Management	**80**	**43**	**54**
4 - Vulnerability	**80**	**60**	**75**
TOTAL SCORE	**400**	**175**	**44**
1 - ECOLOGICAL VALUES (40% of total)	**Possible Points**	**Awarded Points**	**Comments**
1.1 VEGETATIVE COMMUNITIES	**200**	**40**	
1.1.1 - Priority natural communities (Select highest score)			
a. Parcel contains CLIP4 Priority 1 communities (1130 - Rockland Hammock, 1210 - Scrub, 1213 - Sand Pine Scrub, 1214 - Coastal Scrub, 1312 - Scrubby Flatwoods, 1610 - Beach Dune, 1620 - Coastal Berm, 1630 - Coastal Grasslands, 1640 - Coastal Strand, or 1650 - Maritime Hammock)	100		
b. Parcel contains CLIP4 Priority 2 communities (22211 - Hydric Pine Flatwoods, 2221 - Wet Flatwoods, or 1311 - Mesic Flatwoods)	60		
c. Parcel contains CLIP4 Priority 3 communities (5250 - Mangrove Swamp, or 5240 - Salt Marsh)	50		
d. Parcel contains CLIP4 Priority 4 communities (5250 - Mangrove Swamp)	25		
1.1.2 - Plant community diversity (Select the highest score)			
a. Parcel has ≥ 3 CLC native plant communities (Florida Cooperative Land Cover Classification System native plant communities)	20		
b. Parcel has ≤ 2 CLC native plant communities	10	10	cabbage palm/pine/oak hammock
c. Parcel has 0 CLC native plant communities	0		
1.1.3 - Listed plant species (excluding commercially exploited species) (Select the highest score)			
a. Parcel has ≥5 CLC listed plant species	30		
b. Parcel has 3-4 CLC listed plant species	20		
c. Parcel has ≤ 2 CLC listed plant species	10		
d. Parcel has 0 CLC listed plant species	0	0	
1.1.4 - Invasive Plant Infestation (Select highest score)			
a. 0 - 10% infestation	50		
b. 10 - 25% infestation	40		

c. 25 - 50% infestation	30	30	
d. 50 - 75% infestation	20		
e. ≥75% infestation	10		
1.2 - WILDLIFE COMMUNITIES	**100**	**70**	
1.2.1 - Listed wildlife species (Select the highest score)			
a. Listed wildlife species documented on the parcel	80		
b. Listed wildlife species documented on adjacent property	60	60	
c CLIP Potential Habitat Richness ≥5 species	40		
d. No listed wildlife documented near parcel	0		
1.2.2 - Significant wildlife habitat (Rookeries, roosts, denning sites, nesting grounds, high population densities, etc) (Select highest score)			
a. Parcel protects significant wildlife habitat (Please describe)	20		
b. Parcel enhances adjacent to significant wildlife habitat (Please describe)	10	10	
c. Parcel does not enhance significant wildlife habitat	0		
1.3 - WATER RESOURCES	**100**	**10**	
1.3.1 - Aquifer recharge (Select the highest score)			
a. Parcel is located within a wellfield protection zone or within a CLIP4 Aquifer Recharge Priority 1 area	40		
b. Parcel is located within a CLIP4 Aquifer Recharge Priority 2 or 3 area	30		
c. Parcel is located within a CLIP4 Aquifer Recharge Priority 4 or 5 area	20		
d. Parcel is located within a CLIP4 Aquifer Recharge Priority 6 area	0	0	
1.3.2 - Surface Water Protection (Select the highest score)			
a. Parcel is contiguous with and provides buffering for an Outstanding Florida Waterbody	30		
b. Parcel is contiguous with and provides buffering for a creek, river, lake, canal or other surface water body	20		
c. Parcel is contiguous with and provides buffering for an identified flowway	15		
d. Wetlands exist on site	10		
e. Parcel does not provide opportunities for surface water quality enhancement	0	0	
1.3.3 - Floodplain Management (Select all that apply)			
a. Parcel has depressional or slough soils	10	10	
b. Parcel has known history of flooding and is likely to provide onsite water attenuation	10		
c. Parcel provides storm surge buffering	10		
d. Parcel does not provide floodplain management benefits	0		
1.4 - ECOSYSTEM CONNECTIVITY	**200**	**25**	
1.4.1 - Acreage (Select Highest Score)			
a. Parcel is ≥ 300 acres	150		

b. Parcel is ≥ 100 acres	100		
b. Parcel is ≥ 50 acres	75		
c. Parcel is ≥ 25 acres	25		
d. Parcel is ≥ 10 acres	15		
e. Parcel is < 10 acres	0	0	
1.4.2 - Connectivity (Select highest score)			
a. Parcel is immediately contiguous with conservation lands	50		
b. Parcel is not immediately contiguous, but parcels between it and nearby conservation lands are undeveloped	25	25	
c. Parcel is isolated from conservation land	0		
ECOLOGICAL VALUES TOTAL POINTS	**600**	**145**	
ECOLOGICAL VALUES WEIGHTED SCORE (Awarded Points/Possible Points*160)	**160**	**39**	
2 - HUMAN VALUES (20%)	**Possible Points**	**Awarded Points**	**Comments**
2.1 - RECREATION	**120**	**20**	
2.1.1 - Compatible recreation activities (Select all that apply)			
a. Hunting	20		
b. Fishing	20		
c. Water-based recreation (paddling, swimming, etc)	20		
d. Biking	20		
e. Equestrian	20		
f. Passive natural-resource based recreation (Hiking, photography, wildlife watching, environmental education, etc)	20	20	
g. Parcel is incompatible with nature-based recreation	0		
2.2 - ACCESSIBILITY	**120**	**80**	
2.2.1 - Seasonality (Select the highest score)			
a. Parcel accessible for land-based recreation year round	20	20	
b. Parcel accessible for land-based recreation seasonally	10		
c. Parcel is inaccessible for land-based recreation	0		
2.2.2 - Vehicle access (Select the highest score)			
a. Public access via paved road	50	50	
b. Public access via unpaved road	30		
c. Public access via private road	20		
d. No public access	0		
2.2.3 - Parking Availability (Select the highest score)			
a. Minor improvements necessary to provide on-site parking	40		
b. Major improvements necessary to provide on-site parking (Requires site development plan)	25		
b. Public parking available nearby or on adjacent preserve	20		
c. Street parking available	10	10	
d. No public parking available	0		

2.2.4 - Pedestrian access (Select the highest score)			
a. Parcel is easily accessible to pedestrians (within walking distance of housing development)	10		
b. Parcel is not easily accessible to pedestrians	0	0	
2.3 - AESTHETICS/CULTURAL ENHANCEMENT	**40**	**15**	
2.3.1 - Aesthetic/cultural value (Choose all that apply)			
a. Mature/outstanding native vegetation	5	5	large slash pines
b. Scenic vistas	5		
c. Frontage enhances aesthetics of public thoroughfare	10	10	
d. Archaeological/historical structures present	15		
e. Other (Please describe)	5		
f. None	0		
HUMAN VALUES TOTAL SCORE	**280**	**115**	
HUMAN VALUES WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**33**	
3 - RESTORATION AND MANAGEMENT (20%)	**Possible Points**	**Awarded Points**	**Comments**
3.1 - VEGETATION MANAGEMENT	**120**	**75**	
3.1.1 - Invasive plant management needs (Select the highest score)			
a. Minimal invasive/nuisance plant management necessary to restore and maintain native plant communities (<30%)	100		
b. Moderate invasive/nuisance plant management necessary to restore and maintain native plant communities (30-65%)	75	75	Exotics and Cabbage Palms
c. Major invasive/nuisance plant management necessary to restore and maintain native plant communities (>65%)	50		
d. Major invasive/nuisance plant management and replanting necessary to restore and maintain native plant communities (>65%)	25		
e. Restoration of native plant community not feasible	0		
3.1.2 - Prescribed fire necessity and compatibility (Select the highest score)			
a. Parcel contains fire dependent plant communities and is compatible with prescribed fire or parcel does not contain fire dependent plant communities	20		
b. Parcel contains fire dependent plant communities and is incompatible with prescribed fire	0	0	
3.2 - REMEDIATION AND SITE SECURITY	**50**	**20**	
3.2.1 - Site remediation and human conflict potential (Dumping, contamination, trespassing, vandalism, other) (Select the highest score)			
a. Minimal site remediation or human conflict issues predicted	50		
b. Moderate site remediation or human conflict issues predicted (Please describe)	20	20	

c. Major site remediation or human conflict issues predicted (Please describe)	5		
d. Resolving site remediation or human conflict issues not feasible	0		
3.3 - ASSISTANCE	**5**	**0**	
3.4.1 - Management assistance by other entity			
a. Management assistance by other entity likely	5		
b. Management assistance by other entity unlikely	0	0	
RESTORATION AND MANAGEMENT TOTAL SCORE	**175**	**95**	
RESTORATION AND MANAGEMENT WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**43**	
4 - VULNERABILITY (20%)	**Possible Points**	**Awarded Points**	**Comments**
4.1 - ZONING AND LAND USE	**130**	**125**	
4.1.1 - Zoning and land use designation (Select the highest score)			
a. Zoning allows for Single Family, Multifamily, industrial or commercial	100	100	
b. Zoning allows for density of no greater than 1 unit per 5 acres	75		
c. Zoning allows for agricultural use /density of no greater than 1 unit per 40 acres	50		
d. Zoning favors stewardship or conservation	0		
4.1.2 - Future Land Use Type (Select the highest score)			
a. Parcel designated Urban	30		
b. Parcel designated Estates, Rural Fringe Receiving and Neutral, Agriculture	25	25	
c. Parcel designated Rural Fringe Sending, Rural Lands Stewardship Area	5		
d. Parcel is designated Conservation	0		
4.2 - DEVELOPMENT PLANS	**50**	**10**	
4.2.1 - Development plans (Select the highest score)			
a. Parcel has been approved for development	20		
b. SFWMD and/or USACOE permit has been applied for or SDP application has been submitted	15		
c. Parcel has no current development plans	0	0	
4.2.2 - Site characteristics amenable to development (Select all that apply)			
a. Parcel is primarily upland	10	10	
b. Parcel is along a major roadway	10		
c. Parcel is >10 acres	5		
d. Parcel is within 1 mile of a current or planned commercial or multi-unit residential development	5		
VULNERABILITY TOTAL SCORE	**180**	**135**	
VULNERABILITY WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**60**	

8. Additional Site Photos



View from 40th Ave. SE looking north



Drone view from 40th Ave. SE looking north



View looking down into property from above – note light green Brazilian pepper



View of property looking south



Interior of property



Interior of property



Interior of property



Interior of property



Interior of property



Interior of property

APPENDIX 1 – Critical Lands and Water Identification Maps (CLIP) Definitions

This report makes use of data layers from the Florida Natural Areas Inventory and University of Florida Critical Lands and Waters Identification Project (CLIP4). CLIP4 is a collection of spatial data that identify statewide priorities for a broad range of natural resources in Florida. It was developed through a collaborative effort between the Florida Areas Natural Inventory (FNAI), the University of Florida GeoPlan Center and Center for Landscape Conservation Planning, and the Florida Fish and Wildlife Conservation Commission (FWC). It is used in the Florida Forever Program to evaluate properties for acquisition. CLIP4 is organized into a set of core natural resource data layers which are representative of 5 resource categories: biodiversity, landscapes, surface water, groundwater and marine. The first 3 categories have also been combined into the Aggregated layer, which identifies 5 priority levels for natural resource conservation.

Below is a description of each of the three CLIP4 data layers used in this report.

Figure 4 - CLIP4 Priority Natural Communities

Consists of 12 priority natural community types: upland glades, pine rocklands, seepage slopes, scrub, sandhill, sandhill upland lakes, rockland hammock, coastal uplands, imperiled coastal lakes, dry prairie, upland pine, pine flatwoods, upland hardwood forest, or coastal wetlands. These natural communities are prioritized by a combination of their heritage global status rank (G-rank) and landscape context, based on the Land Use Intensity Index (subset of CLIP Landscape Integrity Index) and FNAI Potential Natural Areas. Priority 1 includes G1-G3 communities with Very High or High landscape context. Priority 2 includes G1-G3 Medium and G4 Very High/High. Priority 3 includes G4 Medium and G5 Very High/High. Priority 5 is G5 Medium.

This data layer was created by FNAI originally to inform the Florida Forever environmental land acquisition program. The natural communities were mapped primarily based on the FNAI/FWC Cooperative Land Cover (CLC) data layer, which is a compilation of best-available land cover data for the entire state. The CLC is based on both remote-sensed (from aerial photography, primarily from water management district FLUCCS data) and ground-truthed (from field surveys on many conservation lands) data.

Figure 8 - Potential Habitat Richness CLIP4 Map

This CLIP version 4.0 data layer is unchanged from CLIP v3.0. FWC Potential Habitat Richness. Because SHCAs do not address species richness, FWC also developed the potential habitat richness layer to identify areas of overlapping vertebrate species habitat. FWC created a statewide potential habitat model for each species included in their analysis. In some cases, only a portion of the potential habitat was ultimately designated as SHCA for each species. The Potential Habitat Richness layer includes the entire potential habitat model for each species and provides a count of the number of species habitat models occurring at each location. The highest number of focal species co-occurring at any location in the model is 13.

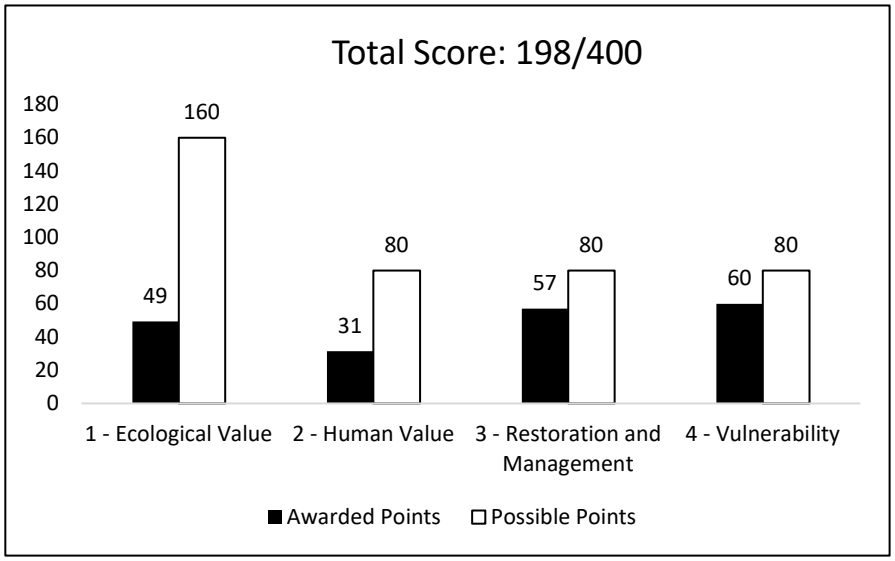
Figure 9 - CLIP4 Aquifer Recharge Priority and Wellfield Protection Zones

High priorities indicate high potential for recharge to an underlying aquifer system (typically the Floridan aquifer but could be intermediate or surficial aquifers in some portions of the state). The highest priorities indicate high potential for recharge to springs or public water supplies. This figure also includes Wellfield Protection Zones. Collier County Wellfield Protection Zones are referenced in the Land Development Code and updated in 2010 by Pollution Control and Prevention Department Staff. The public water supply wellfields, identified in section 3.06.06 and permitted by the SFWMD for potable water to withdraw a minimum of 100,000 average gallons per day (GPD), are identified as protected wellfields, around which specific land use and activity (regulated development) shall be regulated under this section.

Conservation Collier
Initial Criteria Screening Report
GAC



Owner Name: Collier County (former Gulf America Corporation parcel)
Folio Numbers: 41713880000
Size: 1.14 acres
Staff Report Date: December 3, 2025



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1. Introduction

The Conservation Collier Program (Program) is an environmentally sensitive land acquisition and management program approved by the Collier County Board of County Commissioners (Board) in 2002 and by Collier County Voters in 2002 and 2006. The Program was active in acquisition between 2003 and 2011, under the terms of the referendum. Between 2011 and 2016, the Program was in management mode. In 2017, the Collier County Board reauthorized Conservation Collier to seek additional lands (2/14/17, Agenda Item 11B). On November 3, 2020, the Collier County electors approved the Conservation Collier Re-establishment referendum with a 76.5% majority.

This Initial Criteria Screening Report (ICSR) has been prepared for the Conservation Collier Program to meet requirements specified in the Conservation Collier Implementation Ordinance, 2002-63, as amended, and for purposes of the Conservation Collier Program. The sole purpose of this report is to provide objective data to demonstrate how properties meet the criteria defined by the ordinance.

The following sections characterize the property location, elaborate on the initial and secondary screening criteria scoring, and describe potential funding sources, appropriate use, site improvements, and estimated management costs.

2. Summary of Property

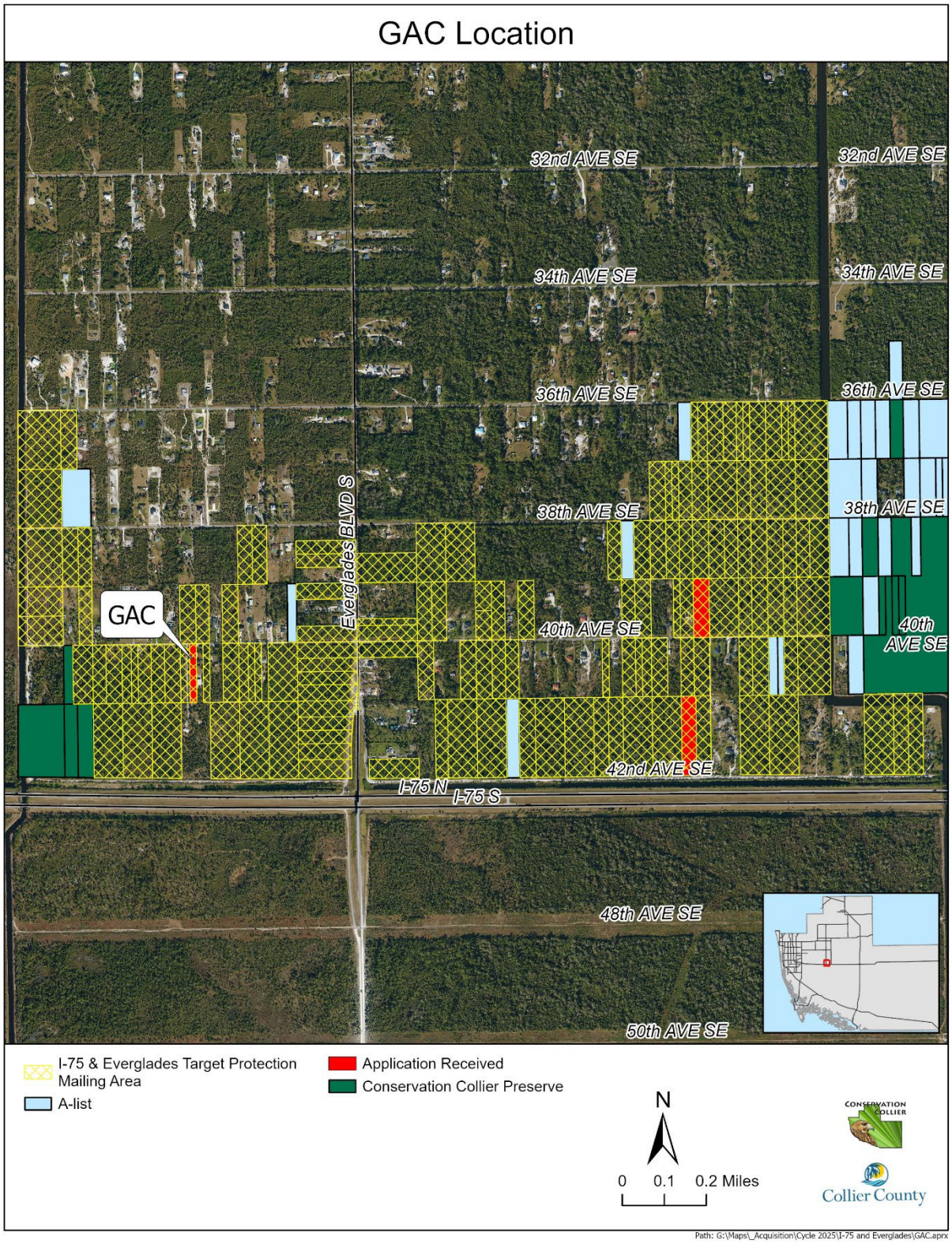


Figure 1 - Parcel Location Overview

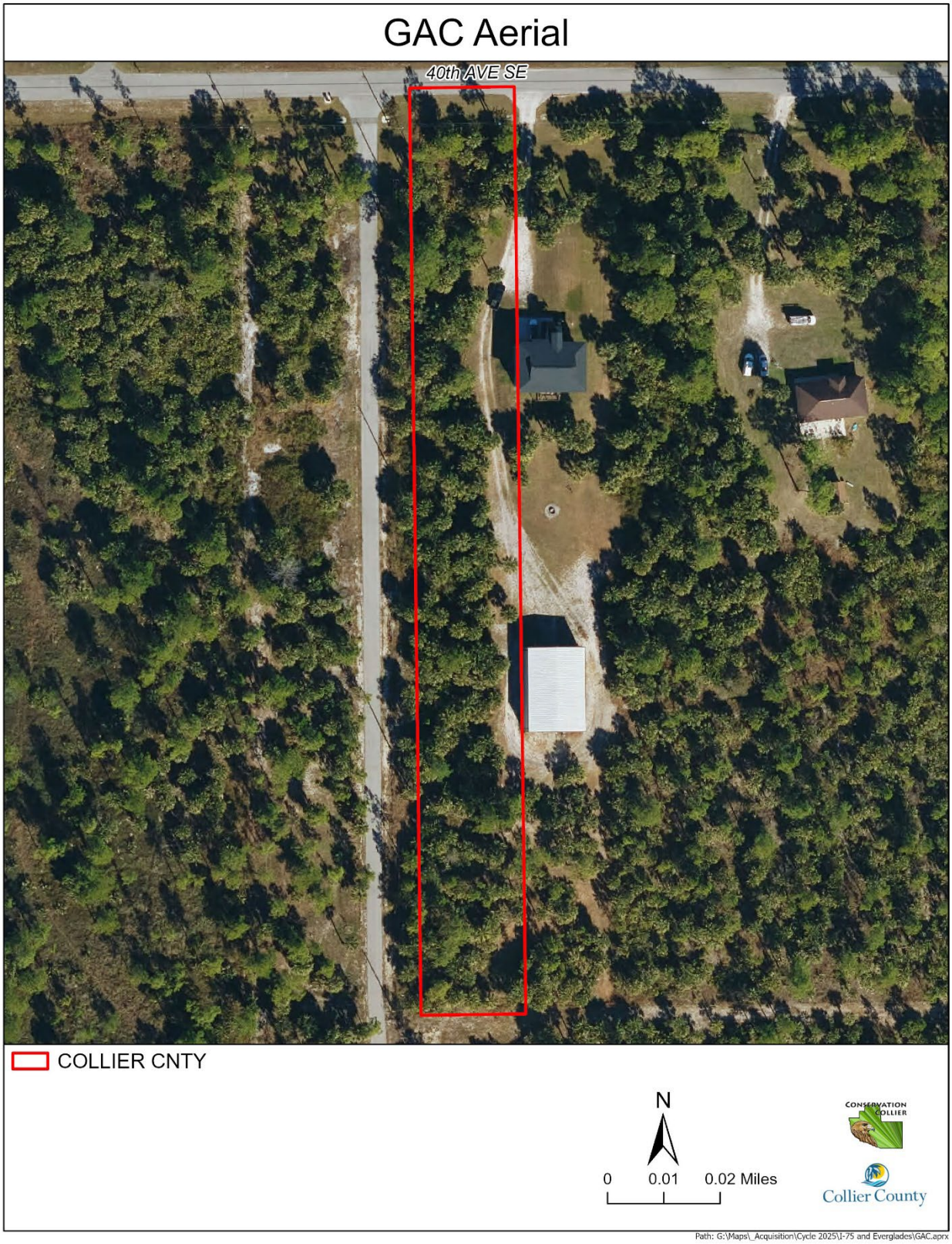


Figure 2 - Parcel Close-up

2.1 Summary of Property Information

Table 1 – Summary of Property Information

Characteristic	Value	Comments
Name	GAC parcel	Owned by Collier County; previous owner was Gulf America Corporation (GAC)
Folio Numbers	41713880000	
Target Protection Area	NGGE	I-75 and Everglades Blvd. Target Protection Mailing Area
Size	1.14 acres	
Section, Township, and Range	S31, T49, R28	
Zoning Category/TDRs	Estates	1 unit per 2.25 acres
FEMA Flood Map Category	AH	1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage.
Existing structures	None	
Adjoining properties and their Uses	Undeveloped; Developed, rural single-family home; driveway	Driveway then undeveloped lots to the W; 40th Ave. SE then undeveloped lot to the N; to the west and; Single-family residence to the E and S.
Development Plans Submitted	None	
Known Property Irregularities	Horticultural debris and potential encroachment	The property to the east appears to have encroached onto the GAC parcel. The trail leading to a pole bard may exist on the GAC parcel. Additionally, several piles of dead palm fronds/horticultural debris exist within the easter side of the parcel.
Other County Dept Interest	Transportation	Parcel is in the study area for the I-75 interchange between Everglades and Desoto Blvds.

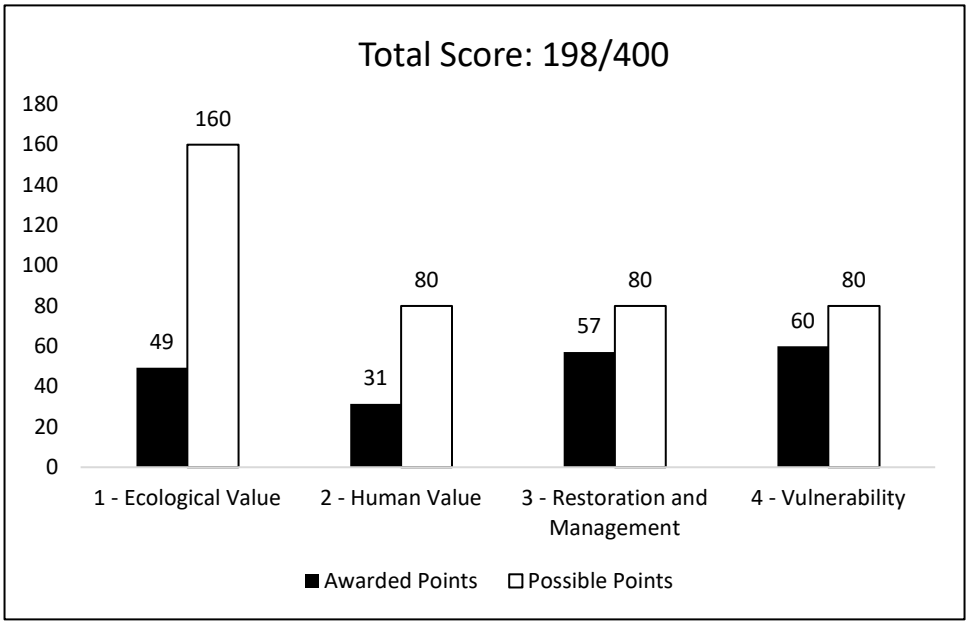


Figure 3 - Secondary Criteria Score

Table 2 - Secondary Criteria Score Summary

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**49**	**160**	**31%**
1.1 - Vegetative Communities	16	53	30%
1.2 - Wildlife Communities	24	27	90%
1.3 - Water Resources	3	27	10%
1.4 - Ecosystem Connectivity	7	53	13%
2 - Human Values	**31**	**80**	**39%**
2.1 - Recreation	6	34	17%
2.2 - Accessibility	23	34	67%
2.3 - Aesthetics/Cultural Enhancement	3	11	25%
3 - Restoration and Management	**57**	**80**	**71%**
3.1 - Vegetation Management	34	55	63%
3.2 - Remediation and Site Security	23	23	100%
3.3 - Assistance	0	2	0%
4 - Vulnerability	**60**	**80**	**75%**
4.1 - Zoning and Land Use	56	58	96%
4.2 - Development Plans	4	22	20%
Total	**198**	**400**	**49%**

2.2 Initial Screening Criteria Satisfaction (Ord. 2002-63, as amended, Sec. 12)

Criteria 1: CLIP Priority 1 Natural Community

Does the property contain Upland Hardwood Forest, Scrub, Coastal Upland, Dry Prairie, or Upland Pine? **NO**

Criteria 2: CLIP Priority 2 Natural Community

Does the property contain Pine Flatwoods or Coastal Wetlands? **NO**

Criteria 3: Other Native, Natural Communities

Does the property contain other native, natural communities? **YES**

The parcel contains pine flatwoods.

Criteria 4: Human Social Values

Does the property offer cultural values, appropriate access for natural resource-based recreation, and the enhancement of the aesthetic setting of Collier County? **YES**

The parcel is visible and readily accessible from a public roadway and can be accessed year-round.

Criteria 5: Water Resources

Does the property offer opportunities for protection of water resource values, including aquifer recharge, water quality enhancement, protection of wetland dependent species habitat, wildfire risk reduction, storm surge protection, and flood control? **NO**

Despite being mapped as containing hydric soils, no wetlands appear to exist on-site.

Criteria 6: Biological and Ecological Value

Does the property offer significant biological values, including biodiversity and listed species habitat? **NO**
Because of its small size, this parcel individually does not offer significant biological values.

Criteria 7: Enhancement of Current Conservation Lands

Does the property enhance and/or protect the environmental value of current conservation lands through function as a buffer, ecological link or habitat corridor? **NO**

The parcel is not adjacent to any conservation lands, but lands between it and conservation lands are undeveloped.

Criteria 8: Target Area

Is the property within a Board-approved target protection mailing area? **YES**

I-75 and Everglades Blvd. TPMA

The GAC parcel met 3 out of the 8 Initial Screening Criteria.

3. Initial Screening Criteria

3.1 Ecological Values

3.1.1 Vegetative Communities

The parcel was mapped as containing Shrub and Brushland, Upland Mixed – Coniferous / Hardwood, and Wetland Forested Mixed; however, staff observed what is best described as Pine flatwoods on the parcel.

The canopy is dominated by slash pine (*Pinus elliottii*) and cabbage palm (*Sabal Palmetto*) with an occasional oak (*Quercus* sp.). The midstory consists of cabbage palm, saw palmetto (*Serenoa repens*), gallberry (*Ilex glabra*), and rusty lyonia (*Lyonia fruticosa*) with an occasional wild coffee (*Psychotria nervosa*), American beautyberry (*Callicarpa americana*), and winged sumac (*Rhus copallinum*). The understory consists of swamp fern (*Telmatoblechnum serrulatum*), bracken fern (*Pteridium aquilinum*), muscadine (*Vitis rotundifolia*) and greenbriers (*Smilax* spp.).

Exotic plants are present at a total estimated density of approximately 10%. The primary invasive plants observed were Brazilian pepper (*Schinus terebinthifolia*), Caesarweed (*Urena lobata*), and what appear to be Burma reed (*Neyraudia reynaudiana*) and tanglehead grass (*Heteropogon contortus*).

No listed species were observed on the property during the site visit.

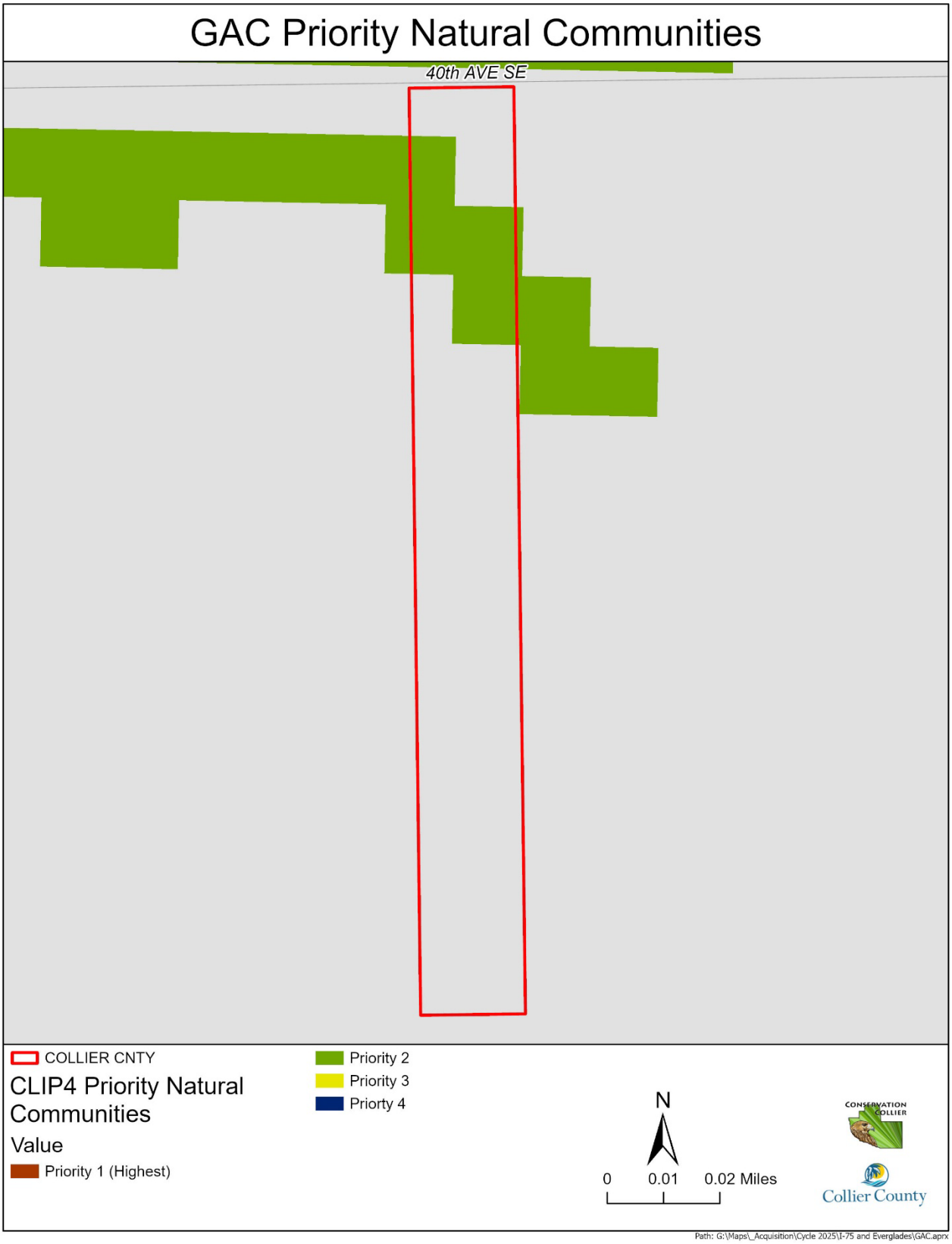


Figure 4 - CLIP4 Priority Natural Communities



Figure 5 - Florida Cooperative Land Cover Classification System



Figure 6 – Pine Flatwoods

3.1.2 Wildlife Communities

Gopher tortoise (*Gopherus polyphemus*) and eastern diamondback rattlesnake (*Crotalus adamanteus*) have been observed by the neighbor on the parcel. Multiple Florida panther (*Puma concolor coryi*) and Florida black bear (*Ursus americanus floridanus*) telemetry points have been noted around the parcel.

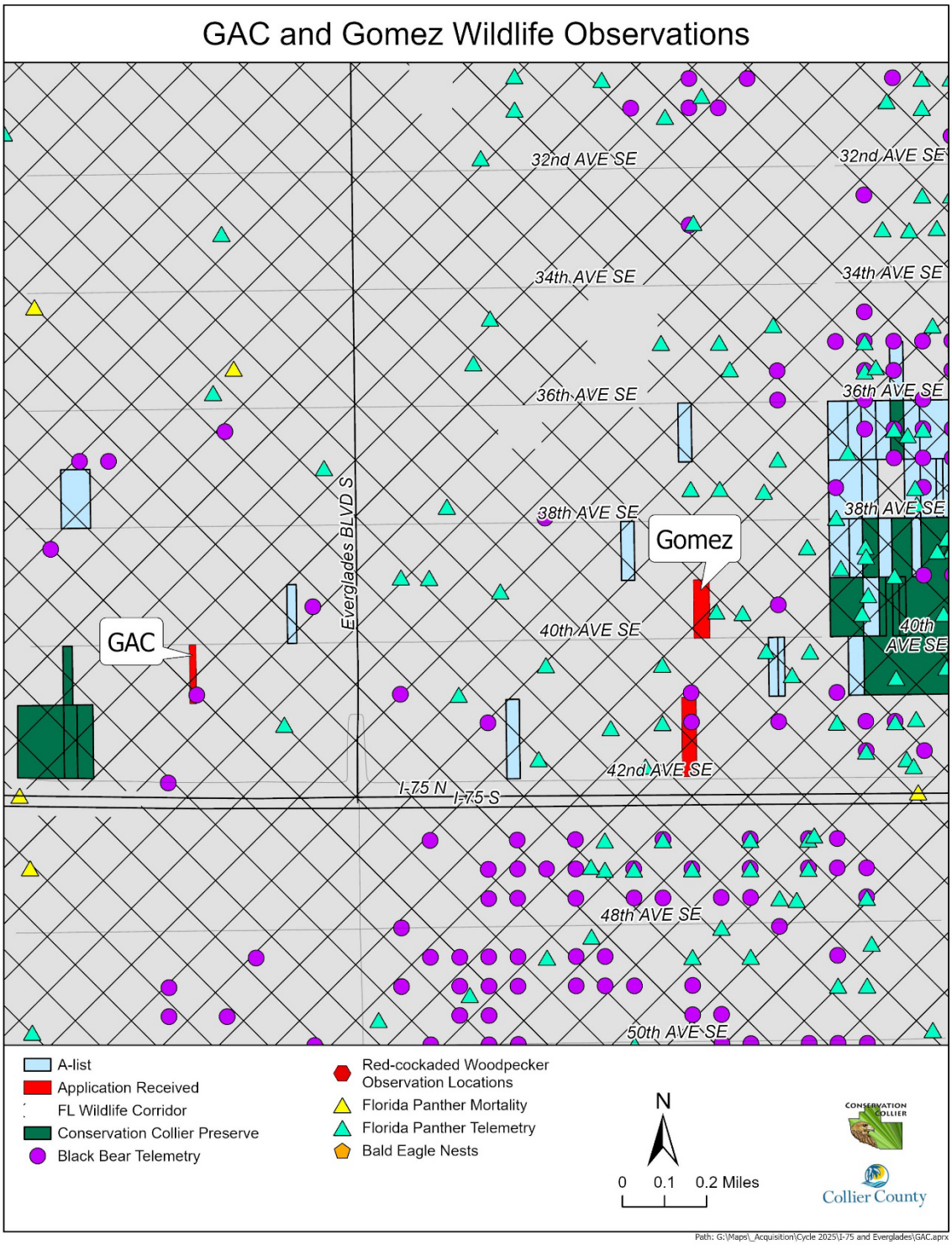


Figure 7 - Wildlife Spatial Data (i.e., telemetry, roosts, etc)

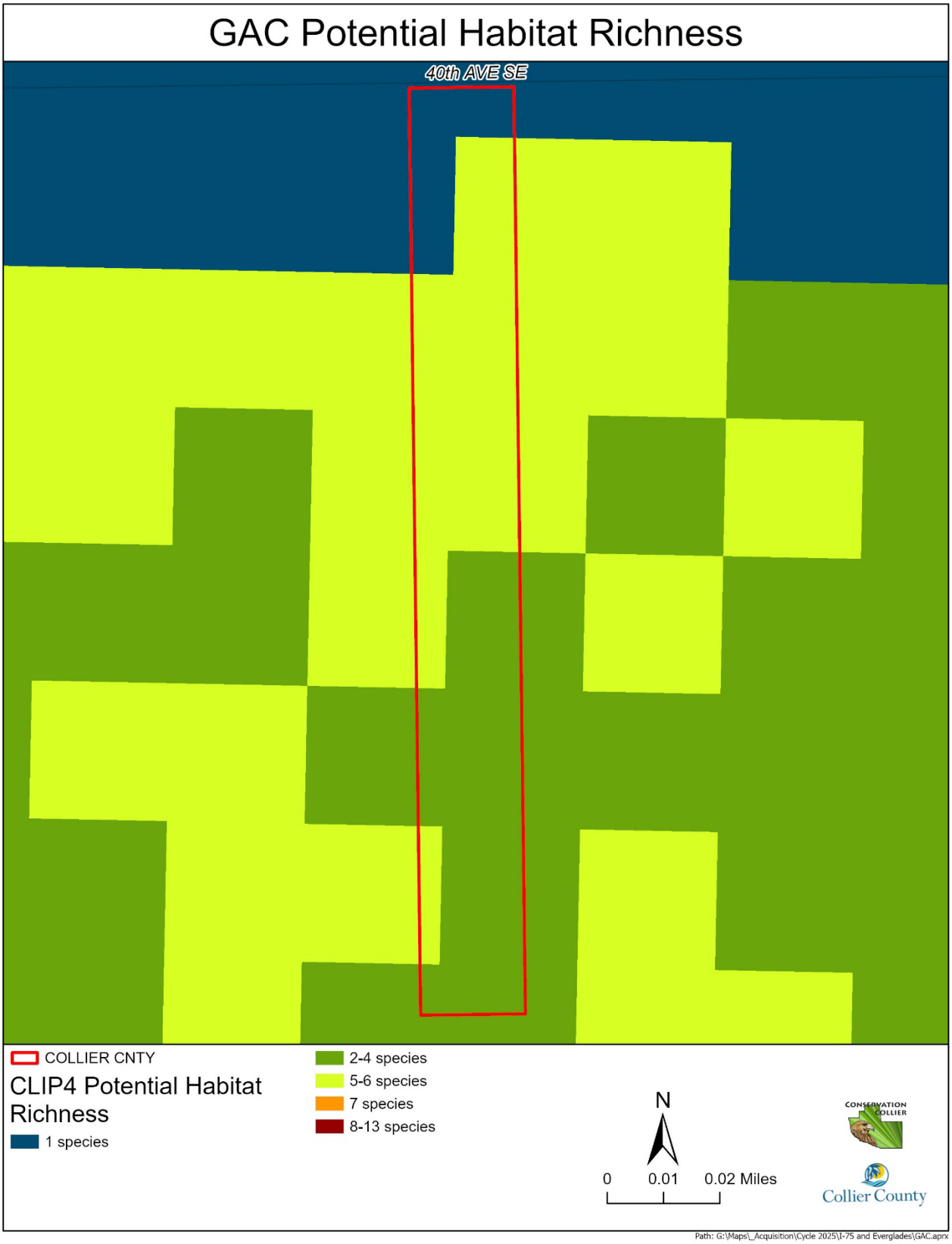


Figure 8 - CLIP4 Potential Habitat Richness

3.1.3 Water Resources

The parcel does little to protect water resources. It is mapped as containing hydric soils, but no wetlands appear to exist on site. Additionally, aquifer recharge mapping indicates very little contribution to recharge.

Soils data is based on the Soil Survey of Collier County Area, Florida (USDA/NRCS, 1990). Soils mapped on the parcel are hydric. Mapped soils include “Hallandale and Boca Fine Sand” (nearly level, poorly drained soil associated with sloughs and poorly defined drainageways) and “Pineda Fine Sand, Limestone Substratum” (level, very poorly drained soils in depressions, cypress swamps, and marshes). The plant communities normally associated with these soils were not present on the parcel.

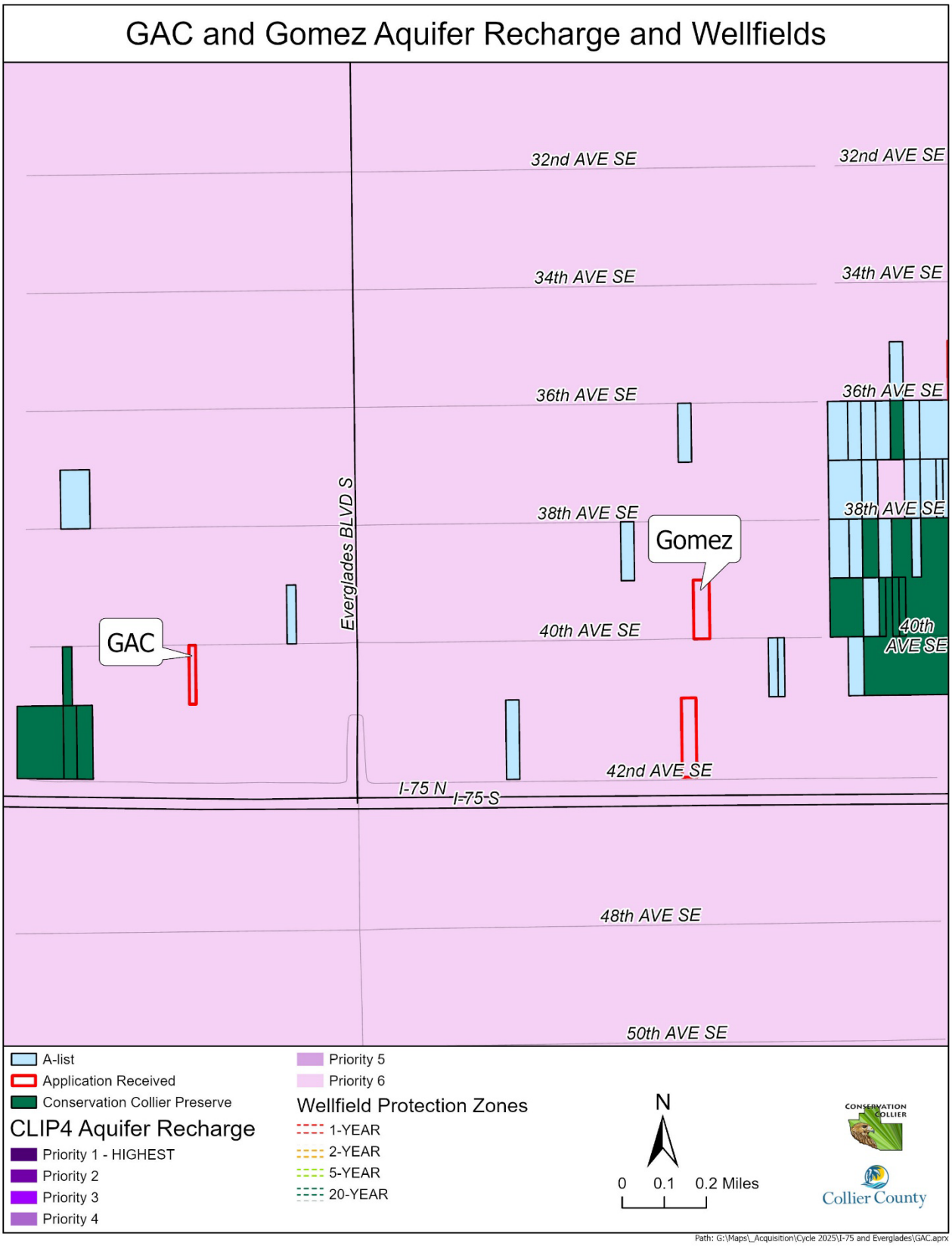


Figure 9 - CLIP Aquifer Recharge Priority and Wellfield Protection Zones



Figure 10 - Collier County Soil Survey

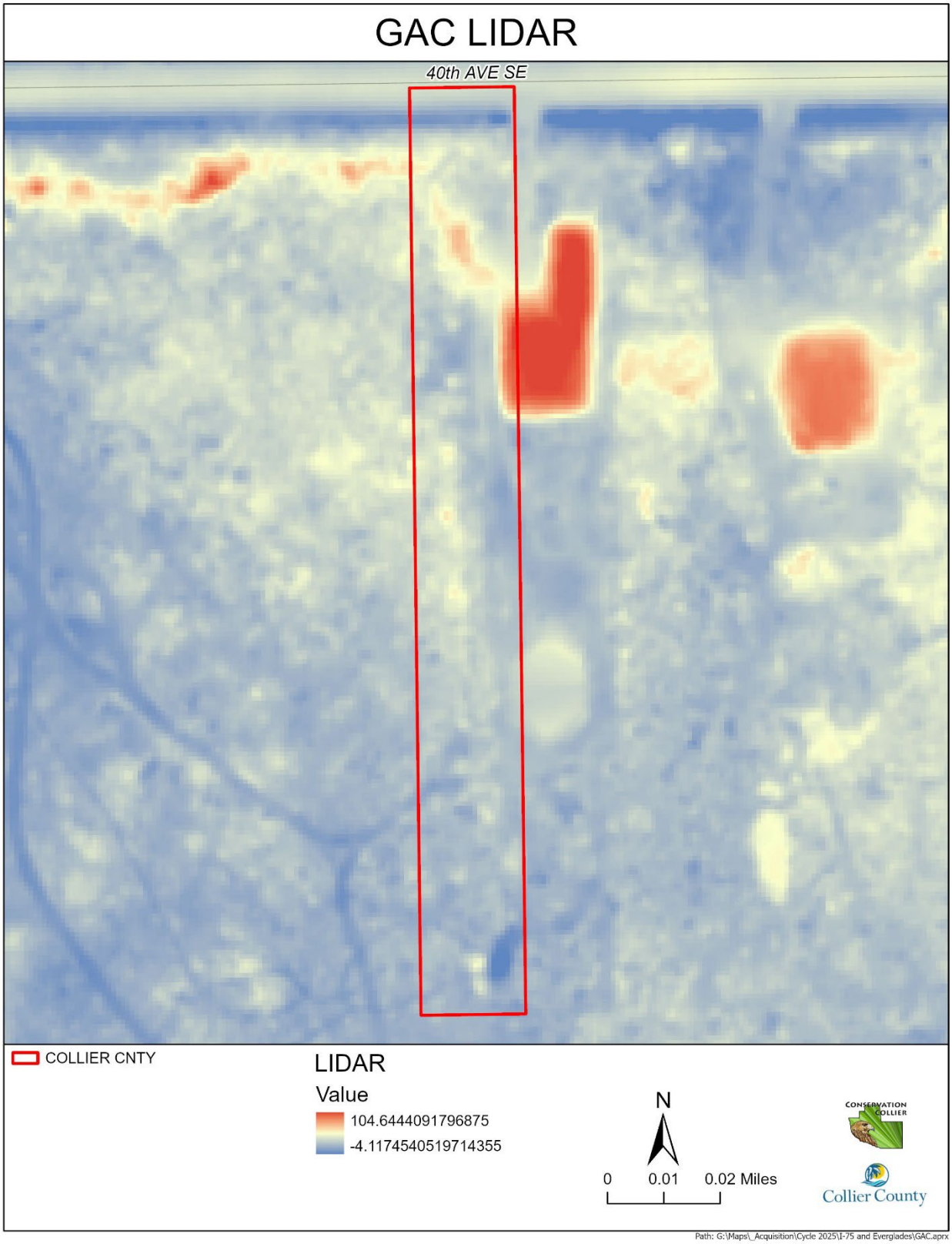


Figure 11 LIDAR Elevation Map

3.1.4 Ecosystem Connectivity

This parcel is not directly adjacent to conservation lands; however, undeveloped lands exist between the parcel and the Hendrix House property to the west. The low-density nature of development in this area allows wildlife to move relatively unimpeded across the landscape. Picayune Strand State Forest is to the south across I-75 with a wildlife underpass west of the parcel, along the eastern side of the Miller Canal.

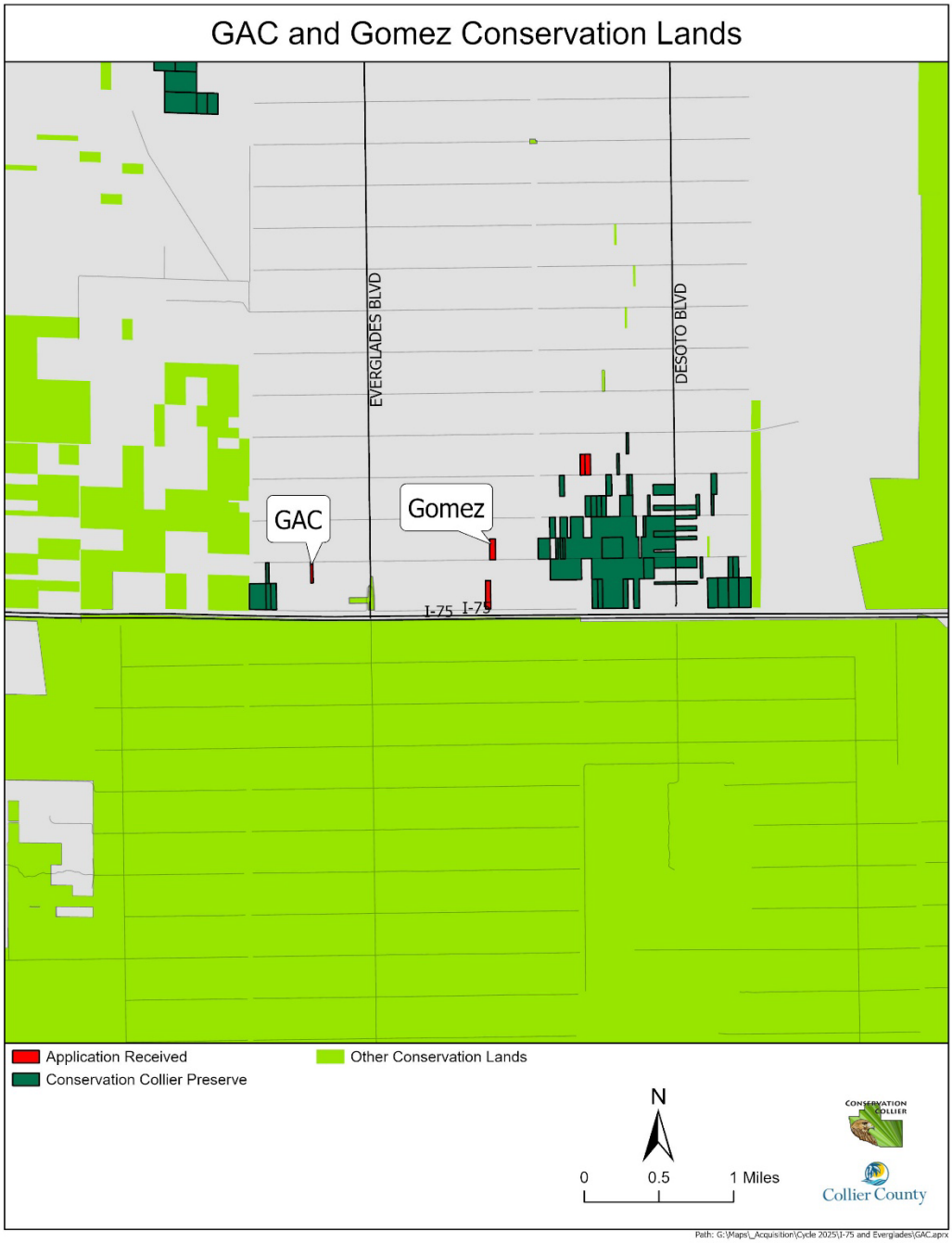


Figure 12 - Conservation Lands

3.2 Human Values

3.2.1 Recreation

This parcel could provide year-round access for passive, recreational activities like hiking.

3.2.2 Accessibility

The parcel is accessible via a paved road. Parking is available along 40th Ave. SE.

3.2.3 Aesthetic/Cultural Enhancement

The parcel is visible from a public road.

3.2 Restoration and Management

3.3.1 Vegetation Management

3.3.1.1 Invasive Vegetation

Exotic plants are present at a total estimated density of approximately 10%. The primary invasive plants observed were Brazilian pepper, Caesarweed, and what appear to be Burma reed and tanglehead grass. The parcel would also benefit from cabbage palm reduction.

3.3.1.2 Prescribed Fire

The natural community would benefit from fire; however, due to the parcel's small size and location, prescribed fire is not likely.

3.3.2 Remediation and Site Security

No site security issues appear to exist within the parcel

3.3.3 Assistance

No management assistance is anticipated.

3.4 Vulnerability

3.4.1 Zoning and Land Use

The parcel is zoned Estates and has an allowable density of 1 unit per 2.25 acres, which would allow for one single-family residence on the parcel.

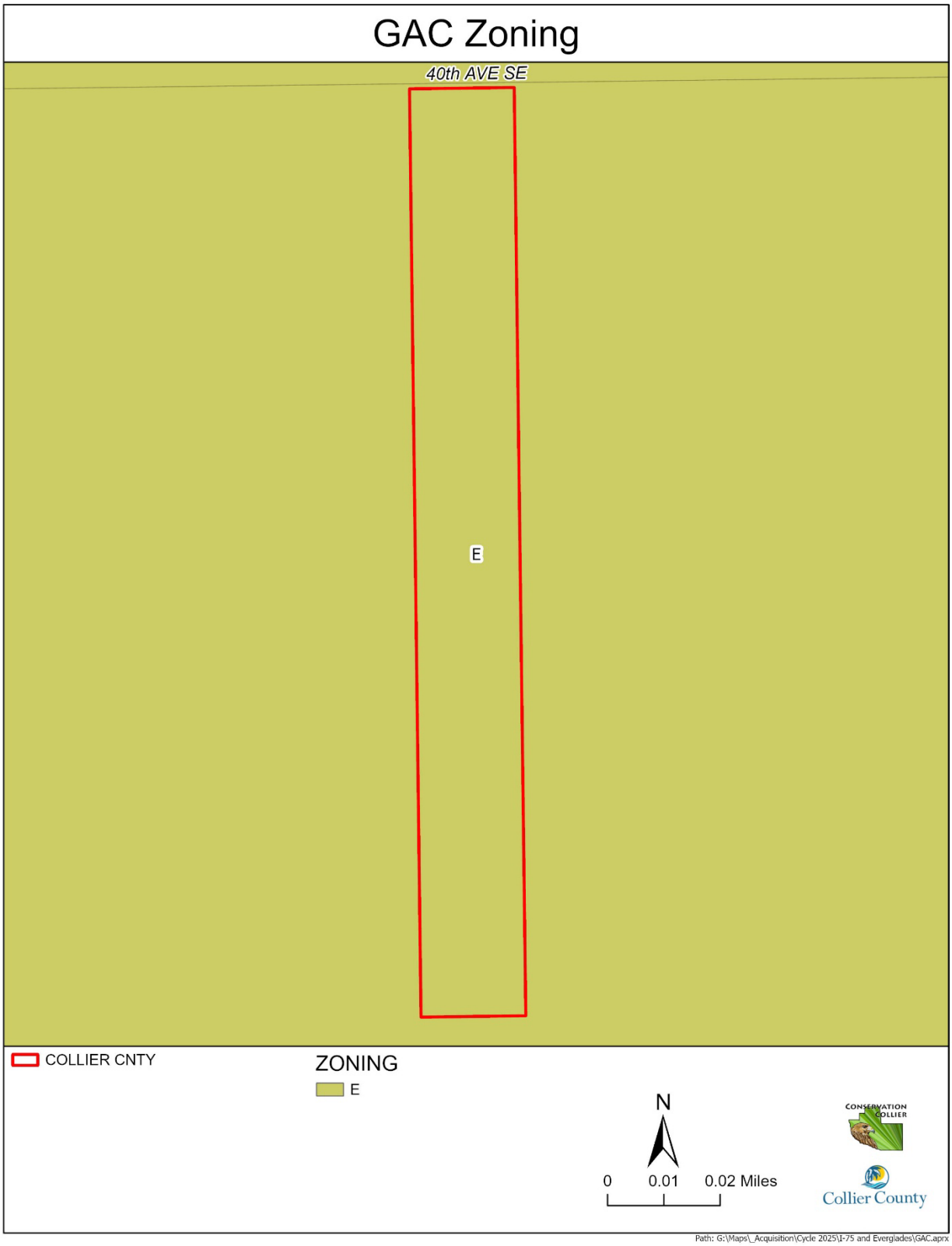


Figure 13 – Zoning

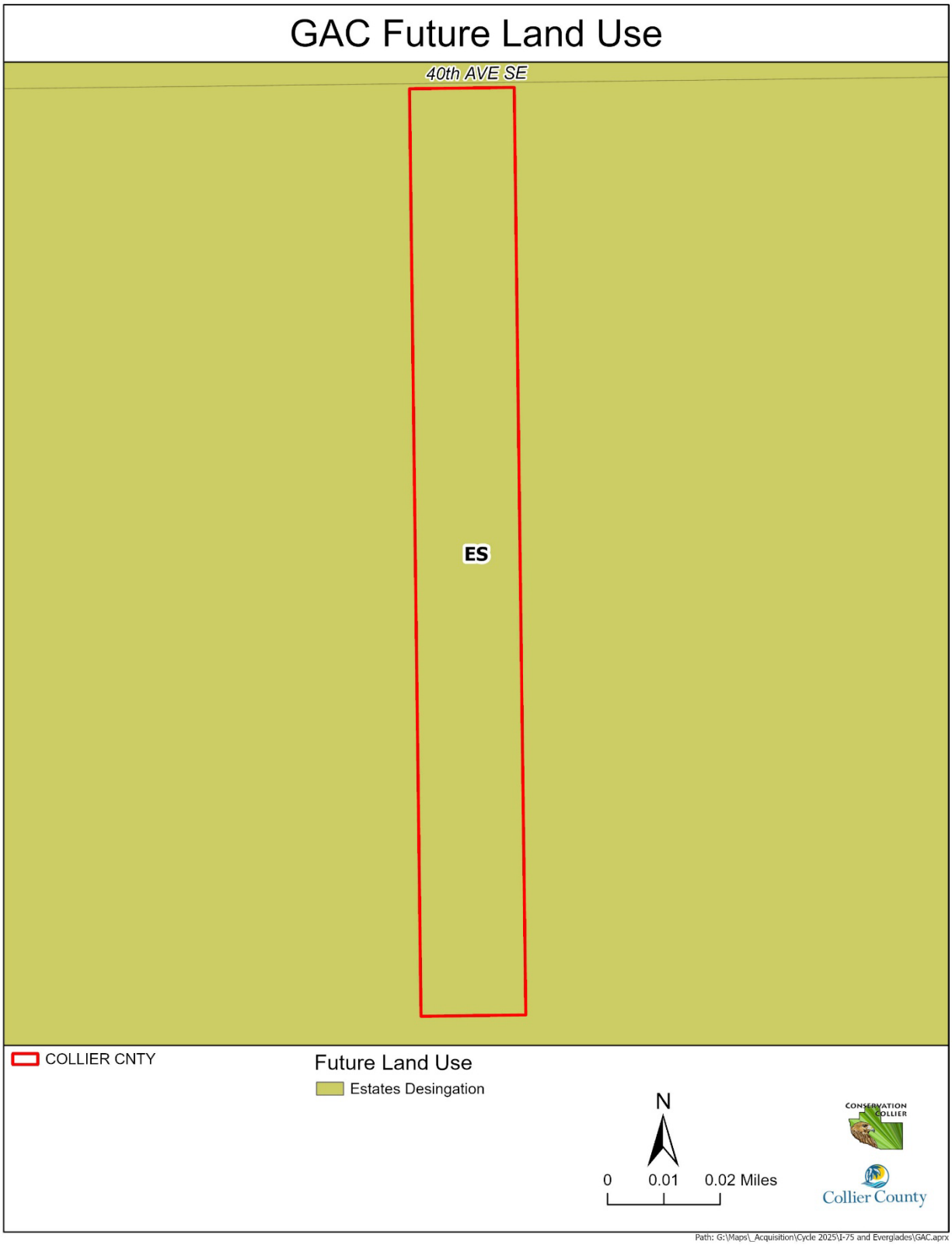


Figure 14 – Future Land Use

3.4.2 Development Plans

The parcel is not currently planned for development.

4. Acquisition Considerations

Staff would like to bring the following items to the attention of the Advisory Committee during the review of this property. The following items may not have significantly affected the scoring but are worth noting.

This parcel is within the study area for the I-75 interchange. The properties in this location could be impacted by future right-of-way needs or for stormwater ponds to support the right-of-way. If this property is approved for the A-List, staff will take this information into consideration when planning amenities and public access on the site. Additionally, when applicable, language will be memorialized in the Purchase Agreement and related closing documents to ensure Collier County Transportation will be able to purchase a portion of the property from Conservation Collier for future right-of-way, if and when needed, at the original per-acre acquisition cost.

5. Management Needs and Costs

Table 3 - Estimated Costs of Site Remediation, Improvements, and Management

Management Element	Initial Cost	Annual Recurring Cost	Comments
Invasive Vegetation Removal	$450	$200	Initial assumes $400/acre; recurring assumes $150/acre
Cabbage Palm Reduction	$450	N/A	Assumes $400/acre
TOTAL	**$900**	**$200**	

6. Potential for Matching Funds

The primary partnering agencies for conservation acquisitions, and those identified in the ordinance are the Florida Communities Trust (FCT) and The Florida Forever Program. The following highlights potential for partnering funds, as communicated by agency staff.

Florida Communities Trust - Parks and Open Space Florida Forever grant program: The FCT Parks and Open Space Florida Forever grant program provides grant funds to local governments and nonprofit organizations to acquire conservation lands, urban open spaces, parks and greenways. Application for this program is typically made for pre-acquired sites up to two years from the time of acquisition. The Parks and Open Space Florida Forever grant program assists the Department of Environmental Protection in helping communities meet the challenges of growth, supporting viable community development and protecting natural resources and open space. The program receives 21 percent Florida Forever appropriation.

Florida Forever Program: The Conservation Collier Program has not been successful in partnering with the Florida Forever Program due to conflicting acquisition policies and issues regarding joint title between the programs.

Additional Funding Sources: There are no additional funding sources known at this time.

7. Secondary Criteria Scoring Form

Property Name: GAC parcel			
Target Protection Mailing Area: I-75 and Everglades Blvd.			
Folio(s): 41713880000			
Secondary Criteria Scoring	**Possible Points**	**Awarded Points**	**Percentage**
1 - Ecological Value	**160**	**49**	**31**
2 - Human Value	**80**	**31**	**39**
3 - Restoration and Management	**80**	**57**	**71**
4 - Vulnerability	**80**	**60**	**75**
TOTAL SCORE	**400**	**198**	**49**

1 - ECOLOGICAL VALUES (40% of total)	**Possible Points**	**Awarded Points**	**Comments**
1.1 VEGETATIVE COMMUNITIES	**200**	**60**	
1.1.1 - Priority natural communities (Select highest score)			
a. Parcel contains CLIP4 Priority 1 communities (1130 - Rockland Hammock, 1210 - Scrub, 1213 - Sand Pine Scrub, 1214 - Coastal Scrub, 1312 - Scrubby Flatwoods, 1610 - Beach Dune, 1620 - Coastal Berm, 1630 - Coastal Grasslands, 1640 - Coastal Strand, or 1650 - Maritime Hammock)	100		
b. Parcel contains CLIP4 Priority 2 communities (22211 - Hydric Pine Flatwoods, 2221 - Wet Flatwoods, or 1311 - Mesic Flatwoods)	60		
c. Parcel contains CLIP4 Priority 3 communities (5250 - Mangrove Swamp, or 5240 - Salt Marsh)	50		
d. Parcel contains CLIP4 Priority 4 communities (5250 - Mangrove Swamp)	25		
1.1.2 - Plant community diversity (Select the highest score)			
a. Parcel has ≥ 3 CLC native plant communities (Florida Cooperative Land Cover Classification System native plant communities)	20		
b. Parcel has ≤ 2 CLC native plant communities	10	10	Pine flatwoods
c. Parcel has 0 CLC native plant communities	0		
1.1.3 - Listed plant species (excluding commercially exploited species) (Select the highest score)			
a. Parcel has ≥5 CLC listed plant species	30		
b. Parcel has 3-4 CLC listed plant species	20		
c. Parcel has ≤ 2 CLC listed plant species	10		
d. Parcel has 0 CLC listed plant species	0	0	
1.1.4 - Invasive Plant Infestation (Select highest score)			
a. 0 - 10% infestation	50	50	
b. 10 - 25% infestation	40		
c. 25 - 50% infestation	30		

d. 50 - 75% infestation	20		
e. ≥75% infestation	10		
1.2 - WILDLIFE COMMUNITIES	**100**	**90**	
1.2.1 - Listed wildlife species (Select the highest score)			
a. Listed wildlife species documented on the parcel	80	80	
b. Listed wildlife species documented on adjacent property	60		
c CLIP Potential Habitat Richness ≥5 species	40		
d. No listed wildlife documented near parcel	0		
1.2.2 - Significant wildlife habitat (Rookeries, roosts, denning sites, nesting grounds, high population densities, etc) (Select highest score)			
a. Parcel protects significant wildlife habitat (Please describe)	20		
b. Parcel enhances adjacent to significant wildlife habitat (Please describe)	10	10	
c. Parcel does not enhance significant wildlife habitat	0		
1.3 - WATER RESOURCES	**100**	**10**	
1.3.1 - Aquifer recharge (Select the highest score)			
a. Parcel is located within a wellfield protection zone or within a CLIP4 Aquifer Recharge Priority 1 area	40		
b. Parcel is located within a CLIP4 Aquifer Recharge Priority 2 or 3 area	30		
c. Parcel is located within a CLIP4 Aquifer Recharge Priority 4 or 5 area	20		
d. Parcel is located within a CLIP4 Aquifer Recharge Priority 6 area	0	0	
1.3.2 - Surface Water Protection (Select the highest score)			
a. Parcel is contiguous with and provides buffering for an Outstanding Florida Waterbody	30		
b. Parcel is contiguous with and provides buffering for a creek, river, lake, canal or other surface water body	20		
c. Parcel is contiguous with and provides buffering for an identified flowway	15		
d. Wetlands exist on site	10		
e. Parcel does not provide opportunities for surface water quality enhancement	0	0	
1.3.3 - Floodplain Management (Select all that apply)			
a. Parcel has depressional or slough soils	10	10	
b. Parcel has known history of flooding and is likely to provide onsite water attenuation	10		
c. Parcel provides storm surge buffering	10		
d. Parcel does not provide floodplain management benefits	0		
1.4 - ECOSYSTEM CONNECTIVITY	**200**	**25**	
1.4.1 - Acreage (Select Highest Score)			
a. Parcel is ≥ 300 acres	150		
b. Parcel is ≥ 100 acres	100		
b. Parcel is ≥ 50 acres	75		
c. Parcel is ≥ 25 acres	25		

d. Parcel is ≥ 10 acres	15		
e. Parcel is < 10 acres	0	0	
1.4.2 - Connectivity (Select highest score)			
a. Parcel is immediately contiguous with conservation lands	50		
b. Parcel is not immediately contiguous, but parcels between it and nearby conservation lands are undeveloped	25	25	
c. Parcel is isolated from conservation land	0		
ECOLOGICAL VALUES TOTAL POINTS	**600**	**185**	
ECOLOGICAL VALUES WEIGHTED SCORE (Awarded Points/Possible Points*160)	**160**	**49**	

2 - HUMAN VALUES (20%)	Possible Points	Awarded Points	Comments
2.1 - RECREATION	**120**	**20**	
2.1.1 - Compatible recreation activities (Select all that apply)			
a. Hunting	20		
b. Fishing	20		
c. Water-based recreation (paddling, swimming, etc)	20		
d. Biking	20		
e. Equestrian	20		
f. Passive natural-resource based recreation (Hiking, photography, wildlife watching, environmental education, etc)	20	20	
g. Parcel is incompatible with nature-based recreation	0		
2.2 - ACCESSIBILITY	**120**	**80**	
2.2.1 - Seasonality (Select the highest score)			
a. Parcel accessible for land-based recreation year round	20	20	
b. Parcel accessible for land-based recreation seasonally	10		
c. Parcel is inaccessible for land-based recreation	0		
2.2.2 - Vehicle access (Select the highest score)			
a. Public access via paved road	50	50	
b. Public access via unpaved road	30		
c. Public access via private road	20		
d. No public access	0		
2.2.3 - Parking Availability (Select the highest score)			
a. Minor improvements necessary to provide on-site parking	40		
b. Major improvements necessary to provide on-site parking (Requires site development plan)	25		
b. Public parking available nearby or on adjacent preserve	20		
c. Street parking available	10	10	
d. No public parking available	0		
2.2.4 - Pedestrian access (Select the highest score)			
a. Parcel is easily accessible to pedestrians (within walking distance of housing development)	10		

b. Parcel is not easily accessible to pedestrians	0	0	
2.3 - AESTHETICS/CULTURAL ENHANCEMENT	**40**	**10**	
2.3.1 - Aesthetic/cultural value (Choose all that apply)			
a. Mature/outstanding native vegetation	5		
b. Scenic vistas	5		
c. Frontage enhances aesthetics of public thoroughfare	10	10	
d. Archaeological/historical structures present	15		
e. Other (Please describe)	5		
f. None	0		
HUMAN VALUES TOTAL SCORE	**280**	**110**	
HUMAN VALUES WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**31**	

3 - RESTORATION AND MANAGEMENT (20%)	Possible Points	Awarded Points	Comments
3.1 - VEGETATION MANAGEMENT	**120**	**75**	
3.1.1 - Invasive plant management needs (Select the highest score)			
a. Minimal invasive/nuisance plant management necessary to restore and maintain native plant communities (<30%)	100		
b. Moderate invasive/nuisance plant management necessary to restore and maintain native plant communities (30-65%)	75	75	Cabbage Palms
c. Major invasive/nuisance plant management necessary to restore and maintain native plant communities (>65%)	50		
d. Major invasive/nuisance plant management and replanting necessary to restore and maintain native plant communities (>65%)	25		
e. Restoration of native plant community not feasible	0		
3.1.2 - Prescribed fire necessity and compatibility (Select the highest score)			
a. Parcel contains fire dependent plant communities and is compatible with prescribed fire or parcel does not contain fire dependent plant communities	20		
b. Parcel contains fire dependent plant communities and is incompatible with prescribed fire	0	0	
3.2 - REMEDIATION AND SITE SECURITY	**50**	**50**	
3.2.1 - Site remediation and human conflict potential (Dumping, contamination, trespassing, vandalism, other) (Select the highest score)			
a. Minimal site remediation or human conflict issues predicted	50	50	
b. Moderate site remediation or human conflict issues predicted (Please describe)	20		
c. Major site remediation or human conflict issues predicted (Please describe)	5		
d. Resolving site remediation or human conflict issues not feasible	0		
3.3 - ASSISTANCE	**5**	**0**	

3.4.1 - Management assistance by other entity			
a. Management assistance by other entity likely	5		
b. Management assistance by other entity unlikely	0	0	
RESTORATION AND MANAGEMENT TOTAL SCORE	**175**	**125**	
RESTORATION AND MANAGEMENT WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**57**	

4 - VULNERABILITY (20%)	Possible Points	Awarded Points	Comments
4.1 - ZONING AND LAND USE	**130**	**125**	
4.1.1 - Zoning and land use designation (Select the highest score)			
a. Zoning allows for Single Family, Multifamily, industrial or commercial	100	100	
b. Zoning allows for density of no greater than 1 unit per 5 acres	75		
c. Zoning allows for agricultural use /density of no greater than 1 unit per 40 acres	50		
d. Zoning favors stewardship or conservation	0		
4.1.2 - Future Land Use Type (Select the highest score)			
a. Parcel designated Urban	30		
b. Parcel designated Estates, Rural Fringe Receiving and Neutral, Agriculture	25	25	
c. Parcel designated Rural Fringe Sending, Rural Lands Stewardship Area	5		
d. Parcel is designated Conservation	0		
4.2 - DEVELOPMENT PLANS	**50**	**10**	
4.2.1 - Development plans (Select the highest score)			
a. Parcel has been approved for development	20		
b. SFWMD and/or USACOE permit has been applied for or SDP application has been submitted	15		
c. Parcel has no current development plans	0	0	
4.2.2 - Site characteristics amenable to development (Select all that apply)			
a. Parcel is primarily upland	10	10	
b. Parcel is along a major roadway	10		
c. Parcel is >10 acres	5		
d. Parcel is within 1 mile of a current or planned commercial or multi-unit residential development	5		
VULNERABILITY TOTAL SCORE	**180**	**135**	
VULNERABILITY WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**60**	

8. Additional Site Photos



View from 40th Ave. SE looking south



View looking north



View into property looking west



Interior of property

APPENDIX 1 – Critical Lands and Water Identification Maps (CLIP) Definitions

This report makes use of data layers from the Florida Natural Areas Inventory and University of Florida Critical Lands and Waters Identification Project (CLIP4). CLIP4 is a collection of spatial data that identify statewide priorities for a broad range of natural resources in Florida. It was developed through a collaborative effort between the Florida Areas Natural Inventory (FNAI), the University of Florida GeoPlan Center and Center for Landscape Conservation Planning, and the Florida Fish and Wildlife Conservation Commission (FWC). It is used in the Florida Forever Program to evaluate properties for acquisition. CLIP4 is organized into a set of core natural resource data layers which are representative of 5 resource categories: biodiversity, landscapes, surface water, groundwater and marine. The first 3 categories have also been combined into the Aggregated layer, which identifies 5 priority levels for natural resource conservation.

Below is a description of each of the three CLIP4 data layers used in this report.

Figure 4 - CLIP4 Priority Natural Communities

Consists of 12 priority natural community types: upland glades, pine rocklands, seepage slopes, scrub, sandhill, sandhill upland lakes, rockland hammock, coastal uplands, imperiled coastal lakes, dry prairie, upland pine, pine flatwoods, upland hardwood forest, or coastal wetlands. These natural communities are prioritized by a combination of their heritage global status rank (G-rank) and landscape context, based on the Land Use Intensity Index (subset of CLIP Landscape Integrity Index) and FNAI Potential Natural Areas. Priority 1 includes G1-G3 communities with Very High or High landscape context. Priority 2 includes G1-G3 Medium and G4 Very High/High. Priority 3 includes G4 Medium and G5 Very High/High. Priority 5 is G5 Medium.

This data layer was created by FNAI originally to inform the Florida Forever environmental land acquisition program. The natural communities were mapped primarily based on the FNAI/FWC Cooperative Land Cover (CLC) data layer, which is a compilation of best-available land cover data for the entire state. The CLC is based on both remote-sensed (from aerial photography, primarily from water management district FLUCCS data) and ground-truthed (from field surveys on many conservation lands) data.

Figure 8 - Potential Habitat Richness CLIP4 Map

This CLIP version 4.0 data layer is unchanged from CLIP v3.0. FWC Potential Habitat Richness. Because SHCAs do not address species richness, FWC also developed the potential habitat richness layer to identify areas of overlapping vertebrate species habitat. FWC created a statewide potential habitat model for each species included in their analysis. In some cases, only a portion of the potential habitat was ultimately designated as SHCA for each species. The Potential Habitat Richness layer includes the entire potential habitat model for each species and provides a count of the number of species habitat models occurring at each location. The highest number of focal species co-occurring at any location in the model is 13.

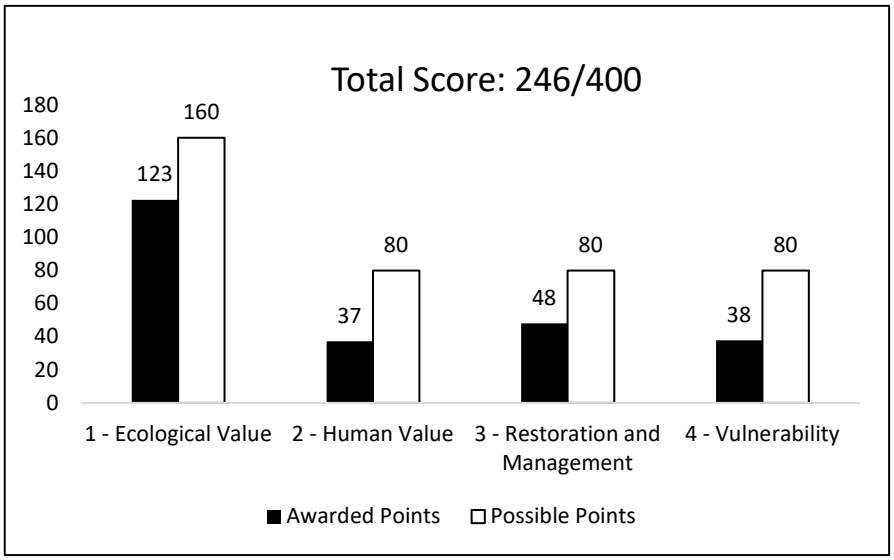
Figure 9 - CLIP4 Aquifer Recharge Priority and Wellfield Protection Zones

High priorities indicate high potential for recharge to an underlying aquifer system (typically the Floridan aquifer but could be intermediate or surficial aquifers in some portions of the state). The highest priorities indicate high potential for recharge to springs or public water supplies. This figure also includes Wellfield Protection Zones. Collier County Wellfield Protection Zones are referenced in the Land Development Code and updated in 2010 by Pollution Control and Prevention Department Staff. The public water supply wellfields, identified in section 3.06.06 and permitted by the SFWMD for potable water to withdraw a minimum of 100,000 average gallons per day (GPD), are identified as protected wellfields, around which specific land use and activity (regulated development) shall be regulated under this section.

Conservation Collier
Initial Criteria Screening Report
Foster



Owner Name: Doug Foster/Snowblind, Inc.
Folio Numbers: 00775240001, 00775280003, 00775760109, 00775760206
Size: 157.55 acres
Staff Report Date: December 3, 2025



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1. Introduction

The Conservation Collier Program (Program) is an environmentally sensitive land acquisition and management program approved by the Collier County Board of County Commissioners (Board) in 2002 and by Collier County Voters in 2002 and 2006. The Program was active in acquisition between 2003 and 2011, under the terms of the referendum. Between 2011 and 2016, the Program was in management mode. In 2017, the Collier County Board reauthorized Conservation Collier to seek additional lands (2/14/17, Agenda Item 11B). On November 3, 2020, the Collier County electors approved the Conservation Collier Re-establishment referendum with a 76.5% majority.

This Initial Criteria Screening Report (ICSR) has been prepared for the Conservation Collier Program to meet requirements specified in the Conservation Collier Implementation Ordinance, 2002-63, as amended, and for purposes of the Conservation Collier Program. The sole purpose of this report is to provide objective data to demonstrate how properties meet the criteria defined by the ordinance.

The following sections characterize the property location, elaborate on the initial and secondary screening criteria scoring, and describe potential funding sources, appropriate use, site improvements, and estimated management costs.

2. Summary of Property

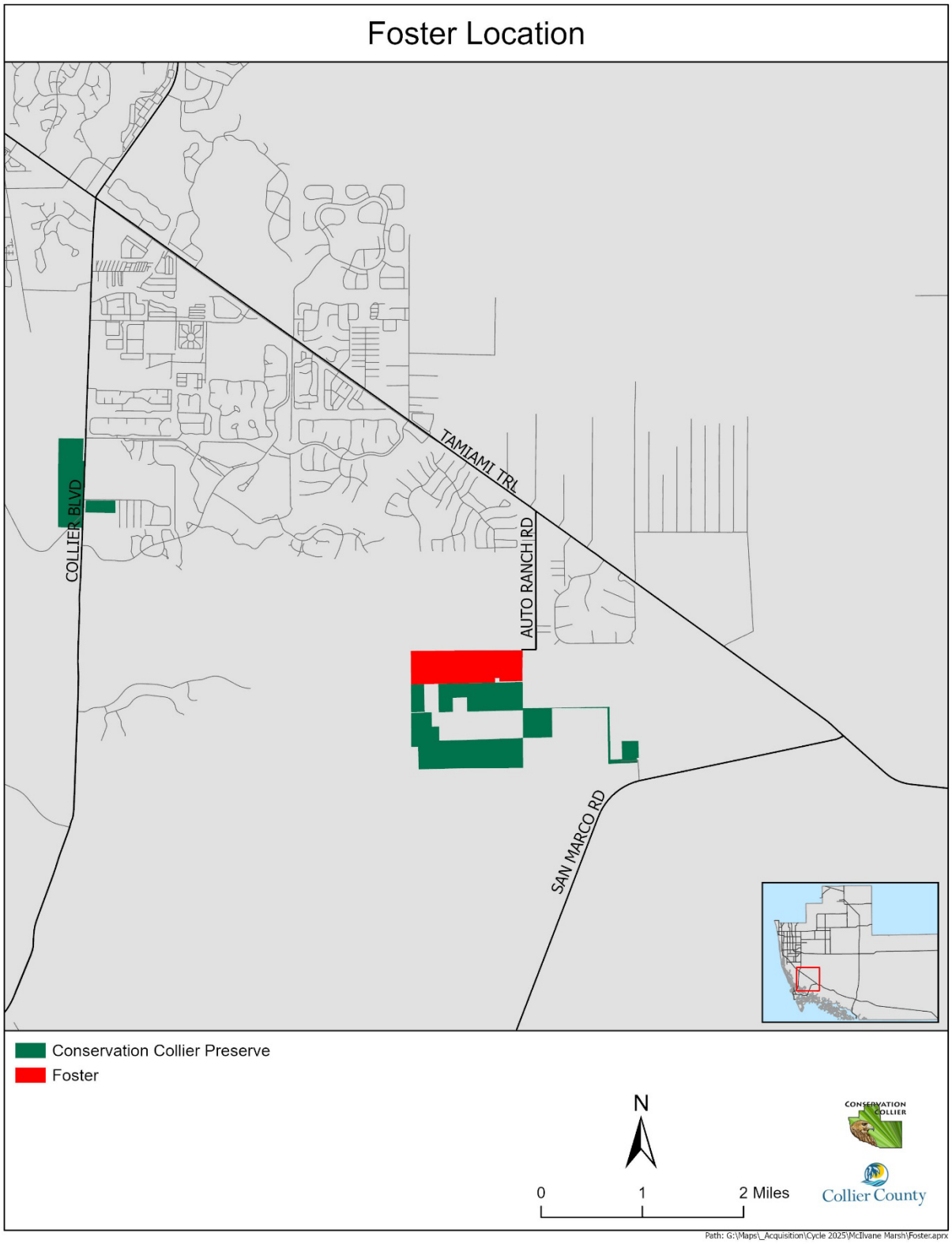

Figure 1 - Parcel Location Overview

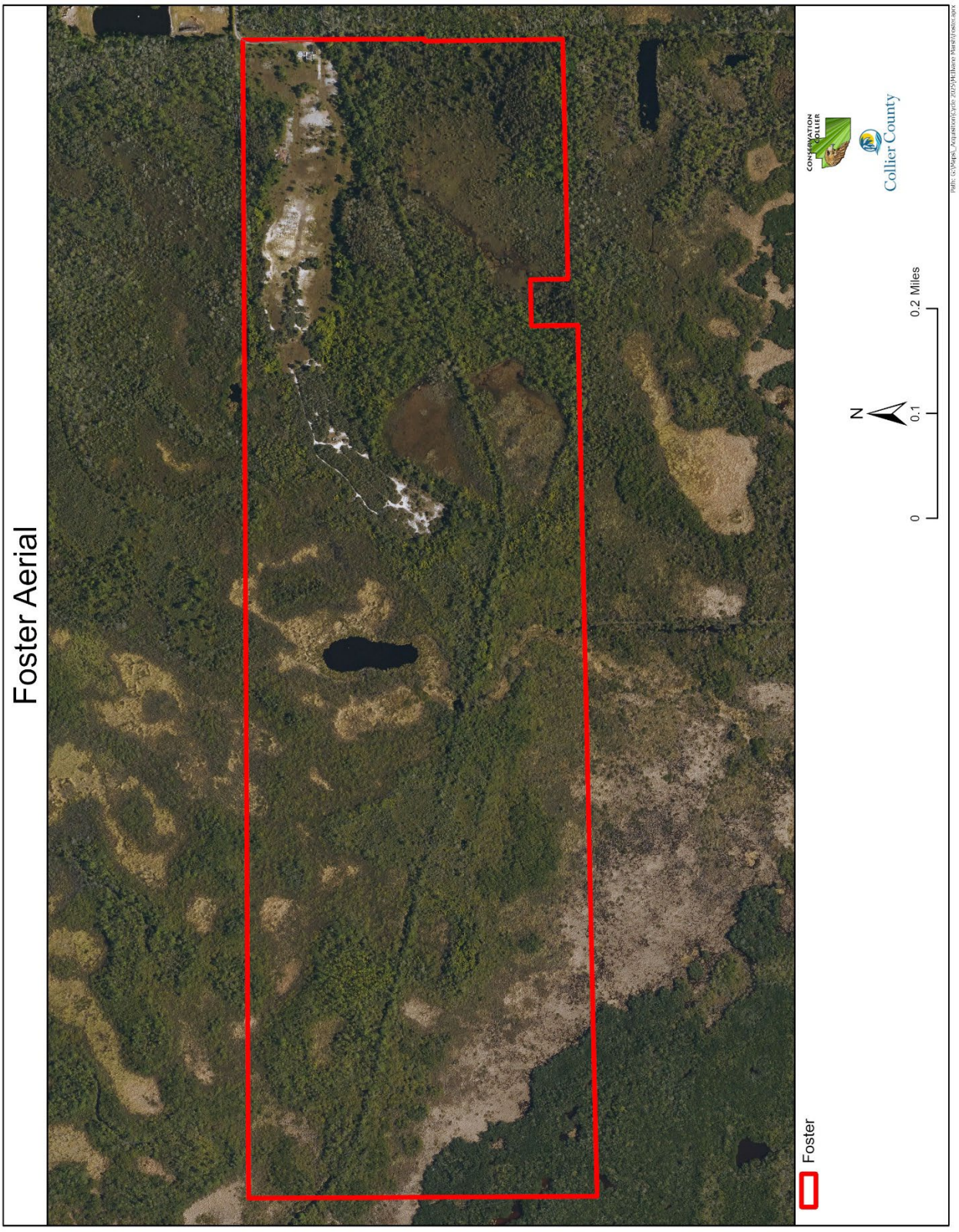

Figure 2 - Parcel Close-up

2.1 Summary of Property Information

Table 1 – Summary of Property Information

Characteristic	Value	Comments
Name	Foster	Douglas E. Foster/Snowblind, Inc.
Folio Numbers	41614040004	00775240001, 00775280003, 00775760109, 00775760206
Target Protection Area	N/A	Within McIlvane Marsh TPMA
Size	157.55 acres	
Section, Township, and Range	S30, T51, R27	
Zoning Category/TDRs	Agricultural	1 unit per 5 acres
FEMA Flood Map Category	AE with small amount of X500	
Existing structures	Old building and cinderblock observation area	Dilapidated cinderblock building; cement slab at entrance and in middle of property; circular cinderblock structure on top of middle cement slab
Adjoining properties and their Uses	Undeveloped PUD to the N and E; Conservation Land to the W and S	The property is surrounded by undeveloped land, PUD to the north and east, Rookery Bay NERR land to the west, and Conservation Collier and private conservation easement land to the south
Development Plans Submitted	None	
Known Property Irregularities	Previous auto junk yard/salvage yard; historic road	The eastern side of the property was used as an auto junk yard since the 1960's, beginning sometime between 1962 and 1969, based on historical aerials. See Section 4 of this report for more information; The historic Old Marco Junction Road transects the property from east to west
Other County Dept Interest	None known	

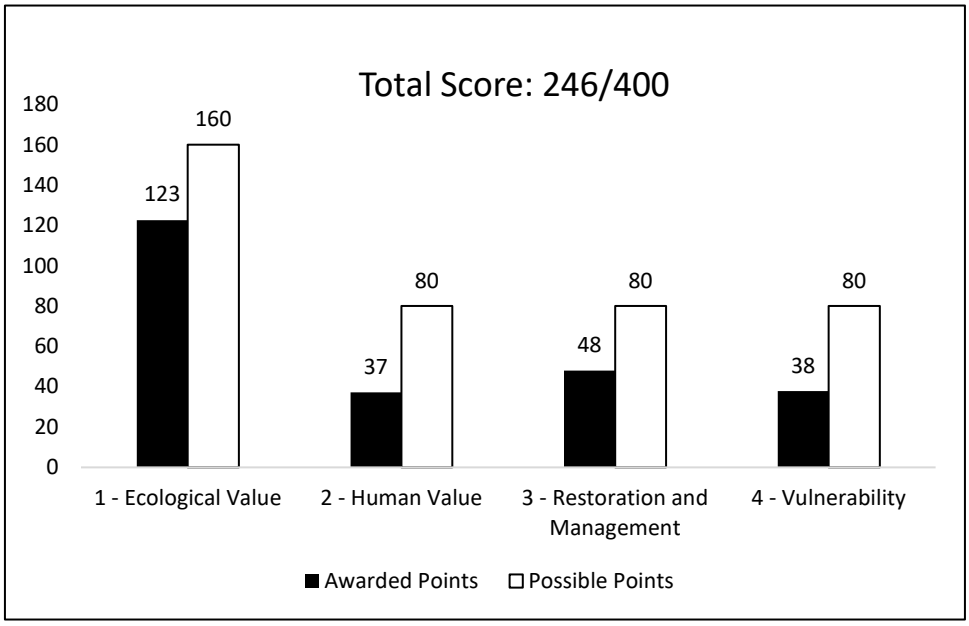

Figure 3 - Secondary Criteria Score

Table 2 - Secondary Criteria Score Summary

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**123**	**160**	**77%**
1.1 - Vegetative Communities	40	53	75%
1.2 - Wildlife Communities	27	27	100%
1.3 - Water Resources	16	27	60%
1.4 - Ecosystem Connectivity	40	53	75%
2 - Human Values	**37**	**80**	**46%**
2.1 - Recreation	11	34	33%
2.2 - Accessibility	23	34	67%
2.3 - Aesthetics/Cultural Enhancement	3	11	25%
3 - Restoration and Management	**48**	**80**	**60%**
3.1 - Vegetation Management	43	55	79%
3.2 - Remediation and Site Security	2	23	10%
3.3 - Assistance	2	2	100%
4 - Vulnerability	**38**	**80**	**47%**
4.1 - Zoning and Land Use	33	58	58%
4.2 - Development Plans	4	22	20%
Total	**246**	**400**	**61%**

2.2 Initial Screening Criteria Satisfaction (Ord. 2002-63, as amended, Sec. 12)

Criteria 1: CLIP Priority 1 Natural Community

Does the property contain Upland Hardwood Forest, Scrub, Coastal Upland, Dry Prairie, or Upland Pine? **YES**

The property contains Scrubby Flatwoods.

Criteria 2: CLIP Priority 2 Natural Community

Does the property contain Pine Flatwoods or Coastal Wetlands? **NO**

Criteria 3: Other Native, Natural Communities

Does the property contain other native, natural communities? **N/A**

The property contains several other native, natural communities.

Criteria 4: Human Social Values

Does the property offer cultural values, appropriate access for natural resource-based recreation, and the enhancement of the aesthetic setting of Collier County? **YES**

The property can be accessed year-round, and provides an excellent example of Scrubby Flatwoods.

Criteria 5: Water Resources

Does the property offer opportunities for protection of water resource values, including aquifer recharge, water quality enhancement, protection of wetland dependent species habitat, wildfire risk reduction, storm surge protection, and flood control? **YES**

Yes, the property contains majority wetland habitats, is adjacent to Rookery Bay NERR (an Outstanding Florida Waterbody), and provides storm surge protection.

Criteria 6: Biological and Ecological Value

Does the property offer significant biological values, including biodiversity and listed species habitat? **YES**

The property provides habitat for multiple upland and wetland species and several listed species including gopher tortoise, Florida panther, and listed wading birds.

Criteria 7: Enhancement of Current Conservation Lands

Does the property enhance and/or protect the environmental value of current conservation lands through function as a buffer, ecological link or habitat corridor? **YES**

The property is adjacent to Conservation Collier's McIlvane Marsh Preserve and a private conservation easement to the south and Rookery Bay NERR to the west.

Criteria 8: Target Area

Is the property within a Board-approved target protection mailing area? **YES**

McIlvane Marsh TPMA

The Foster property met 6 out of the 8 Initial Screening Criteria.

3. Initial Screening Criteria

3.1 Ecological Values

3.1.1 Vegetative Communities

The property contains several vegetative communities including scrubby flatwoods, mangrove swamp, salt marsh, freshwater marsh, hydric pine flatwoods, cypress, wetland forested mixed, and mixed shrubs.

The scrubby flatwoods are dominated by sand live oak (*Quercus geminata*) and saw palmetto (*Serenoa repens*) in the midstory with occasional slash pine (*Pinus elliottii*) in the canopy. Gopher apple (*Geobalanus oblongifolius*) and some muscadine (*Vitis rotundifolia*) are present in the groundcover.

The remaining plant communities were only observed via drone, midstory and groundcover species were not ground truthed.

The mangrove swamp is dominated by red mangrove (*Rhizophora mangle*) with buttonwood (*Conocarpus erectus*) forests in upper tidal areas. Giant leather fern (*Acrostichum danaeifolium*) is most likely present in the understory

The salt marsh consists of coastal plain willow (*Salix caroliniana*) Black needle rush (*Juncus roemerianus*), saltgrass (*Distichlis spicata*), cordgrass (*Spartina sp.*), sawgrass (*Cladium jamaicense*), and common cattail (*Typha latifolia*)

The freshwater marsh contains varying densities of the following Sawgrass (*Cladium jamaicensis*), common cattail, arrowhead (*Sagittaria* sp.), maidencane (*Panicum hemitomon*), Buttonbush (*Cephalanthus occidentalis*), Cordgrass, Switchgrass (*Panicum virgatum*), Bulrush (*Scirpus* sp.), Needlerush (*Juncus effusus*), Common Reed (*Phragmites* sp.), and alligator flag (*Thalia geniculata*)

The hydric pine flatwoods canopy consists of slash pine, cabbage palm (*Sabal palmetto*), and laurel oak (*Quercus laurifolia*), the midstory consists of wax myrtle (*Myrica cerifera*), buttonbush (*Cephalanthus occidentalis*), and Dahoon holly (*Ilex cassine*). Understory components include swamp fern (*Telmatoblechnum serrulatum),* broomsedge (*Andropogon* spp.), grapevine (*Vitis* spp.), and greenbriar (*Smilax* spp.).

The cypress community contains cypress (Taxodium sp.) and most likely swamp fern, sawgrass, and alligator flag in the understory.

The wetland forested mixed community contains a canopy of slash pine, red maple (*Acer rubrum*), laurel oak, and cypress. Dahoon (*Ilex cassine*), swamp bay (*Persea palustris*), wax myrtle are most likely in the understory with a very sparse groundcover.

The mixed shrubs community is similar to the wetland forested mixed community; however, the canopy is sparser.

Exotic plants are present at a total estimated density of about 30%. The primary invasive plants observed were Brazilian pepper (*Schinus terebinthifolia*), earleaf acacia (*Acacia auriculiformis*), old world climbing fern *(Lygodium microphyllum)*, and melaleuca (*Melaleuca quinquenervia*). Mahoe (*Talipariti tiliaceum*),

cogongrass (*Imperata cylindrica*), torpedograss (*Panicum repens*), and white lead tree (*Leucaena leucocephala*) were also observed.

No listed plant species were observed on the property during the site visit.

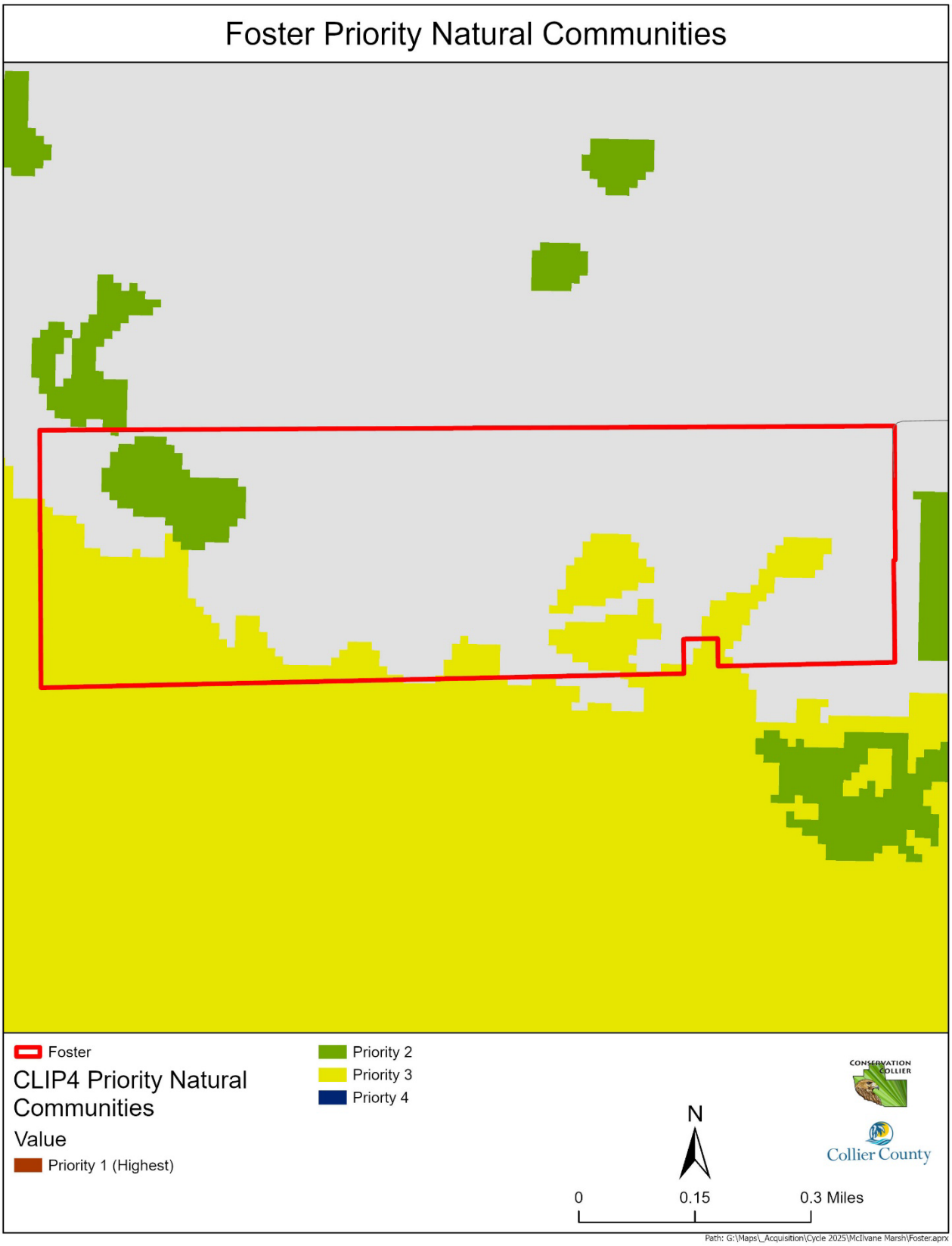

Figure 4 - CLIP4 Priority Natural Communities

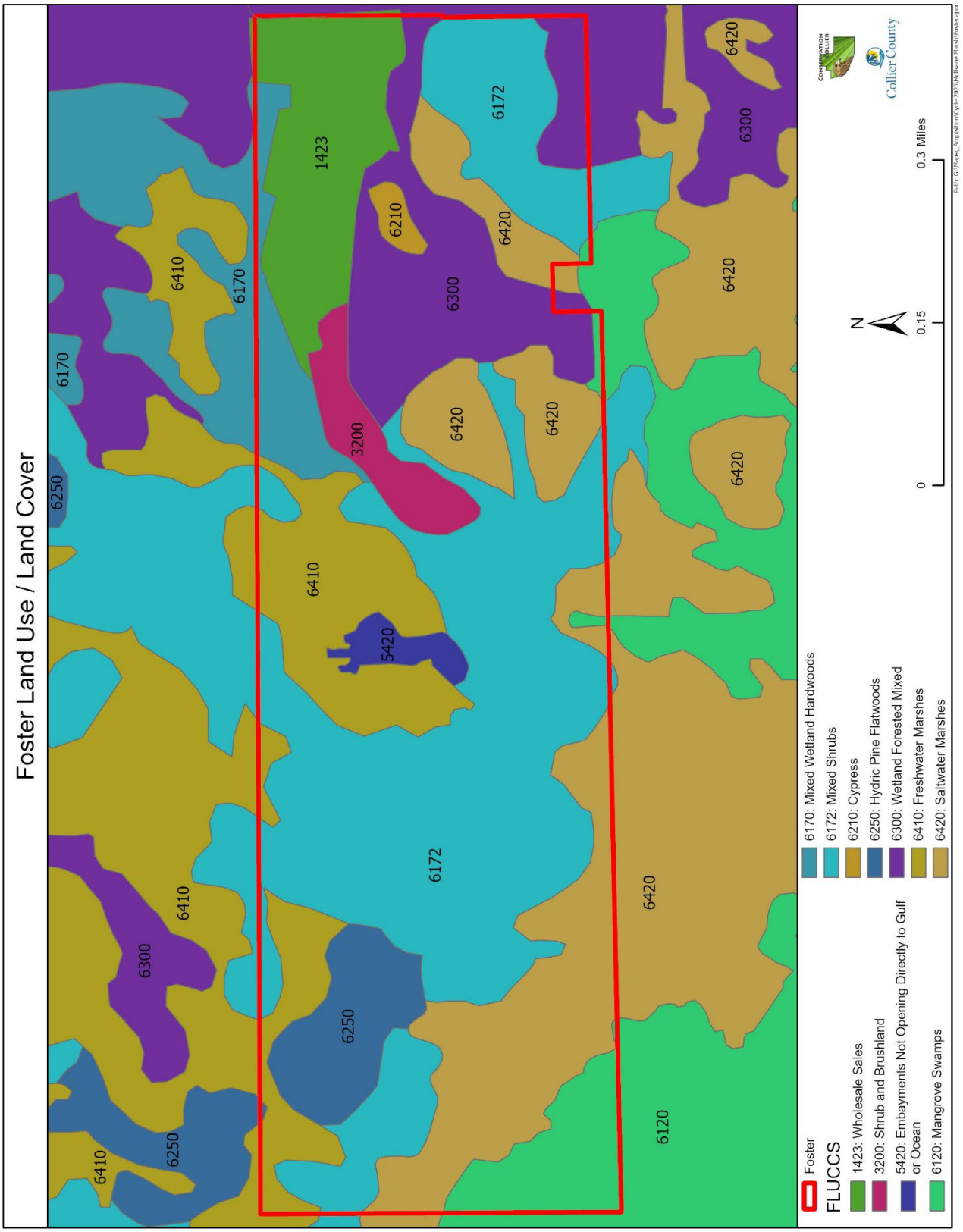

Figure 5 - Florida Cooperative Land Cover Classification System



Figure 6 – Scrubby Flatwoods



Figure 7 – Hydric Pine Flatwoods and Wetland Forested Mixed

3.1.2 Wildlife Communities

Multiple Florida panther (*Puma concolor coryi*) and Florida black bear (*Ursus americanus floridanus*) telemetry points have been noted on and around the property, and a large, active gopher tortoise burrow was observed within the property.

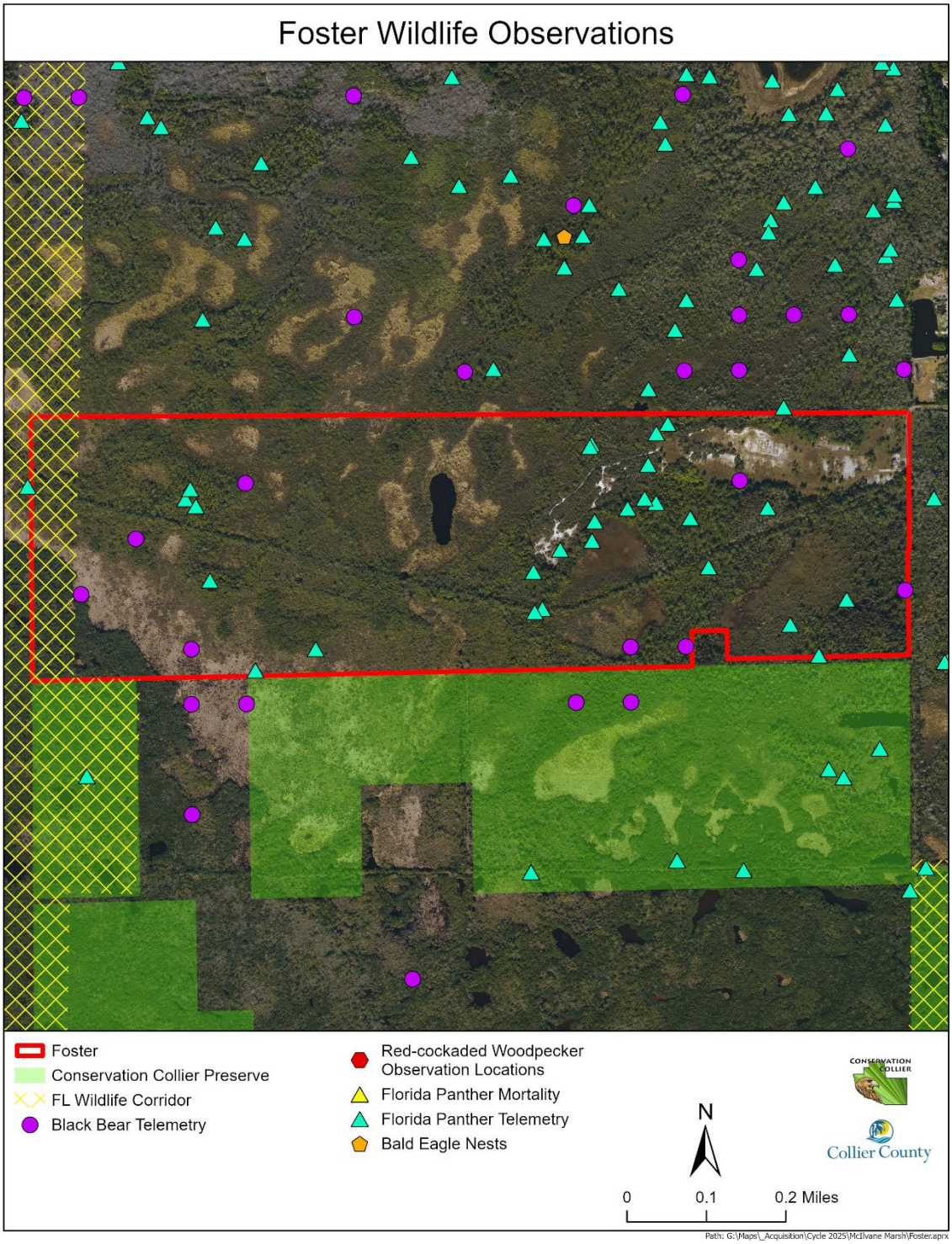

Figure 8 - Wildlife Spatial Data (i.e., telemetry, roosts, etc)

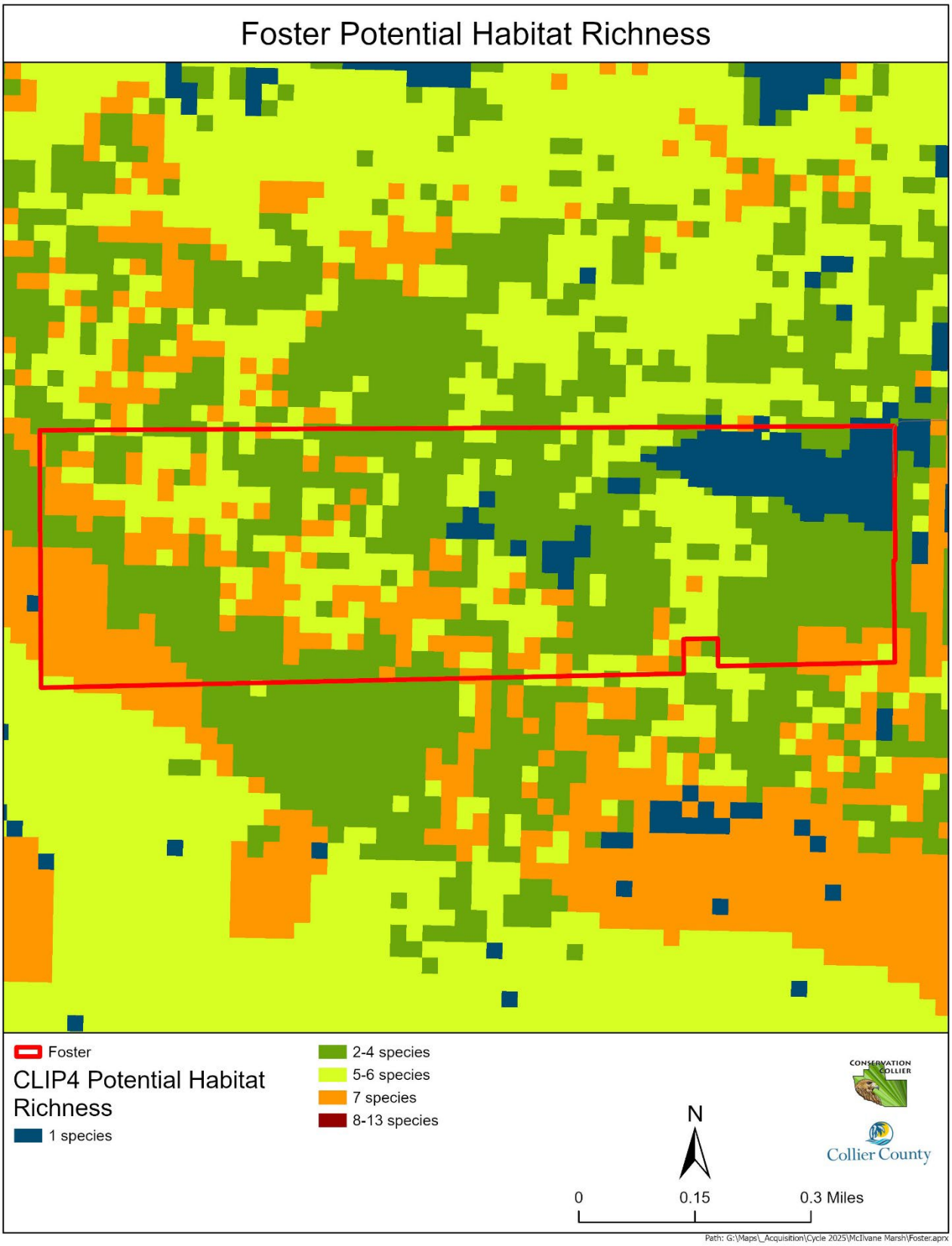

Figure 9 - CLIP4 Potential Habitat Richness

3.1.3 Water Resources

The property is mapped as containing hydric soils and contains a majority of wetlands. It is also adjacent to Rookery Bay NERR, which is an Outstanding Water Body. However, aquifer recharge mapping indicates very little contribution to recharge.

Soils data is based on the Soil Survey of Collier County Area, Florida (USDA/NRCS, 1990). Soils mapped on the property are mainly hydric. Mapped soils include primarily “Estero and Peckish Soils, Frequently Flooded” (level, very poorly drained soil associated with frequently flooded tidal marshes). Other hydric soils include “Basinger Fine Sand, Occasionally Flooded” (nearly level, poorly drained soil associated with occasionally flooded low ridges that are surrounded by tidal marshes), “Durbin and Wulfert Mucks, Frequently Flooded” (level, very poorly drained soil associated with tidal mangroves), and “Holopaw Fine Sand” (nearly level, poorly drained soil associated with sloughs and poorly defined drainageways).

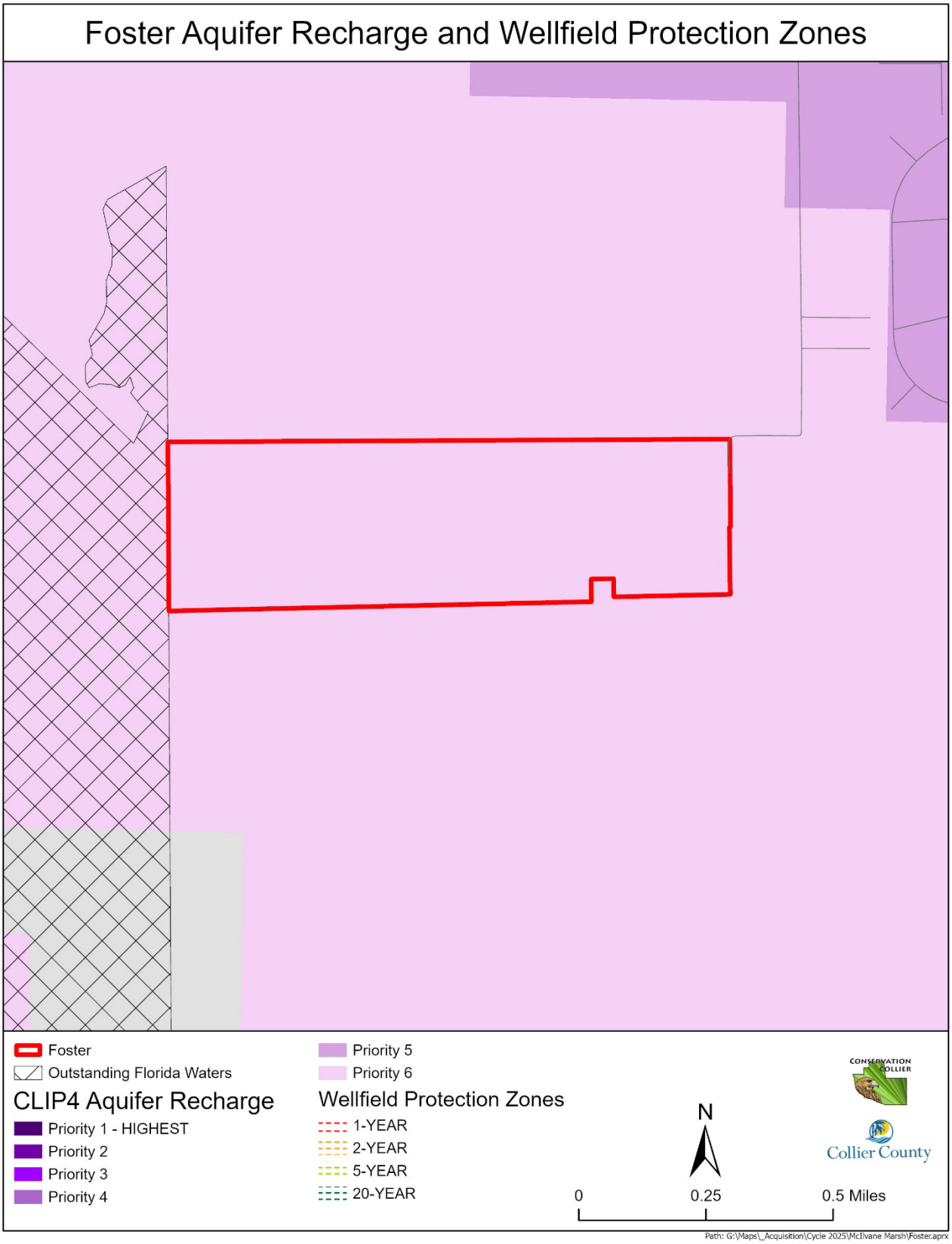

Figure 10 - CLIP Aquifer Recharge Priority and Wellfield Protection Zones

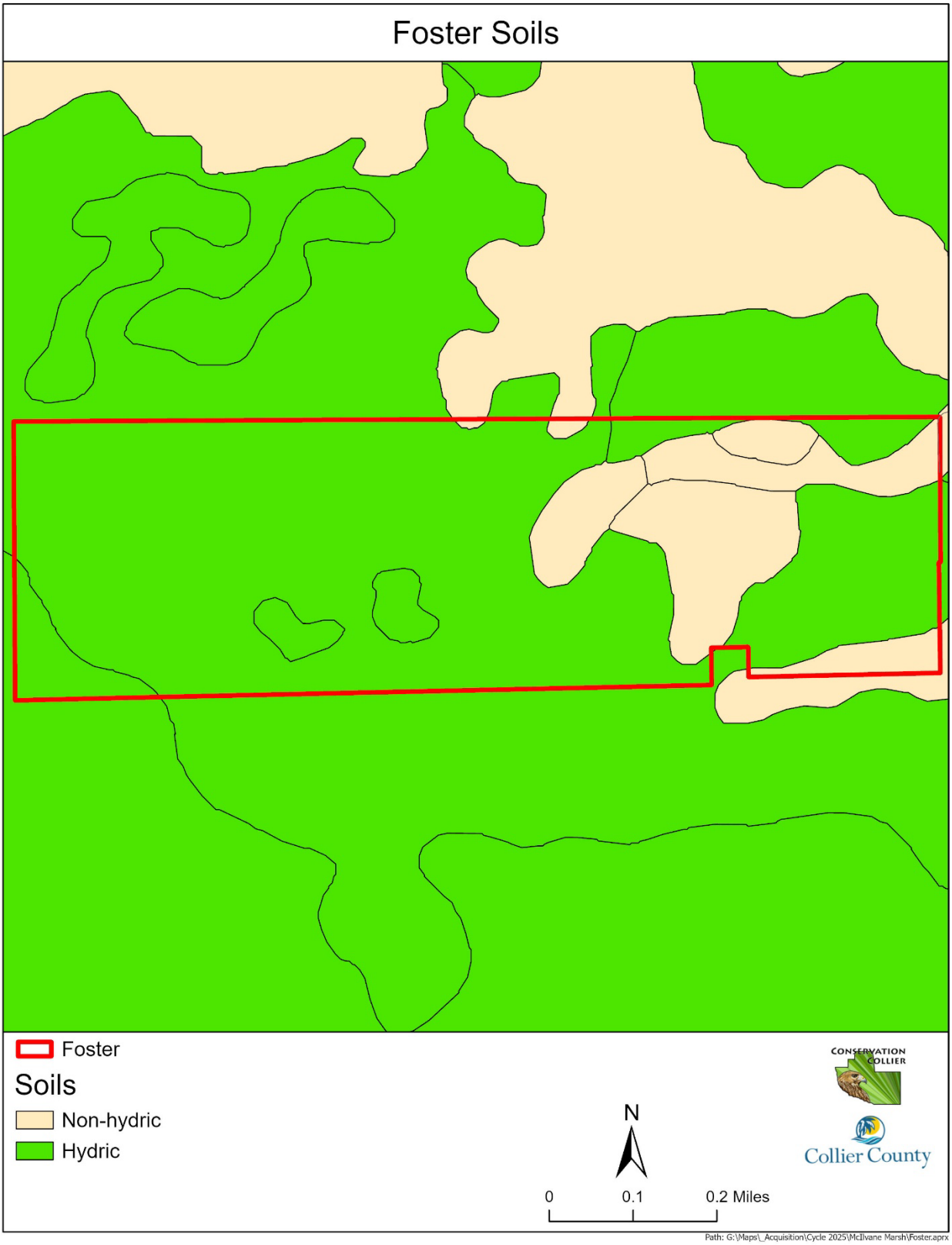

Figure 11 - Collier County Soil Survey

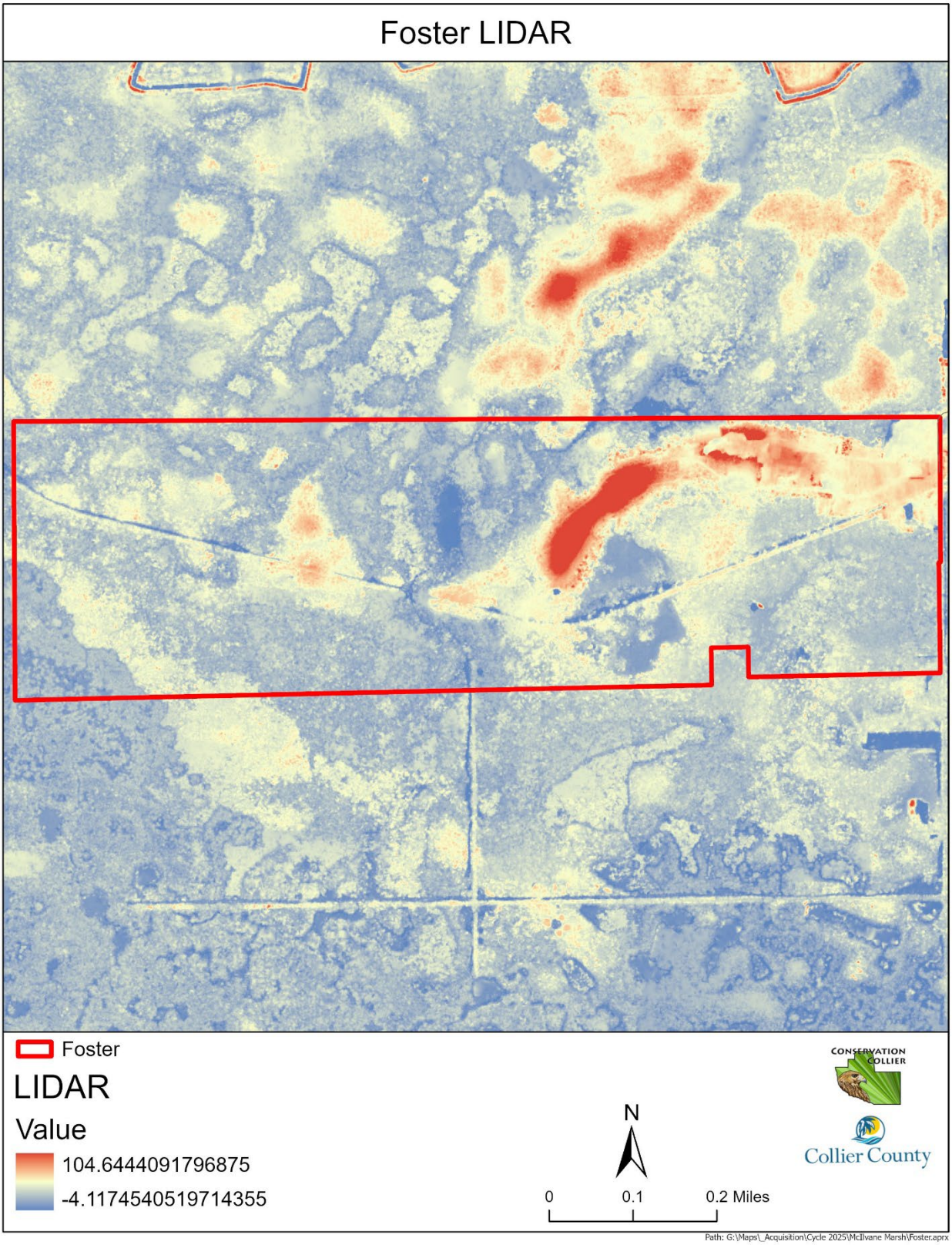

Figure 12 LIDAR Elevation Map

3.1.4 Ecosystem Connectivity

This property is directly connected to Conservation Collier's McIlvane Marsh Preserve to the south and Rookery Bay NERR to the west. These lands form a contiguous block of conservation lands that span thousands of miles west, south and east and include Rookery Bay NERR, The Ten Thousand Islands NWR, and Collier Seminole State Park.

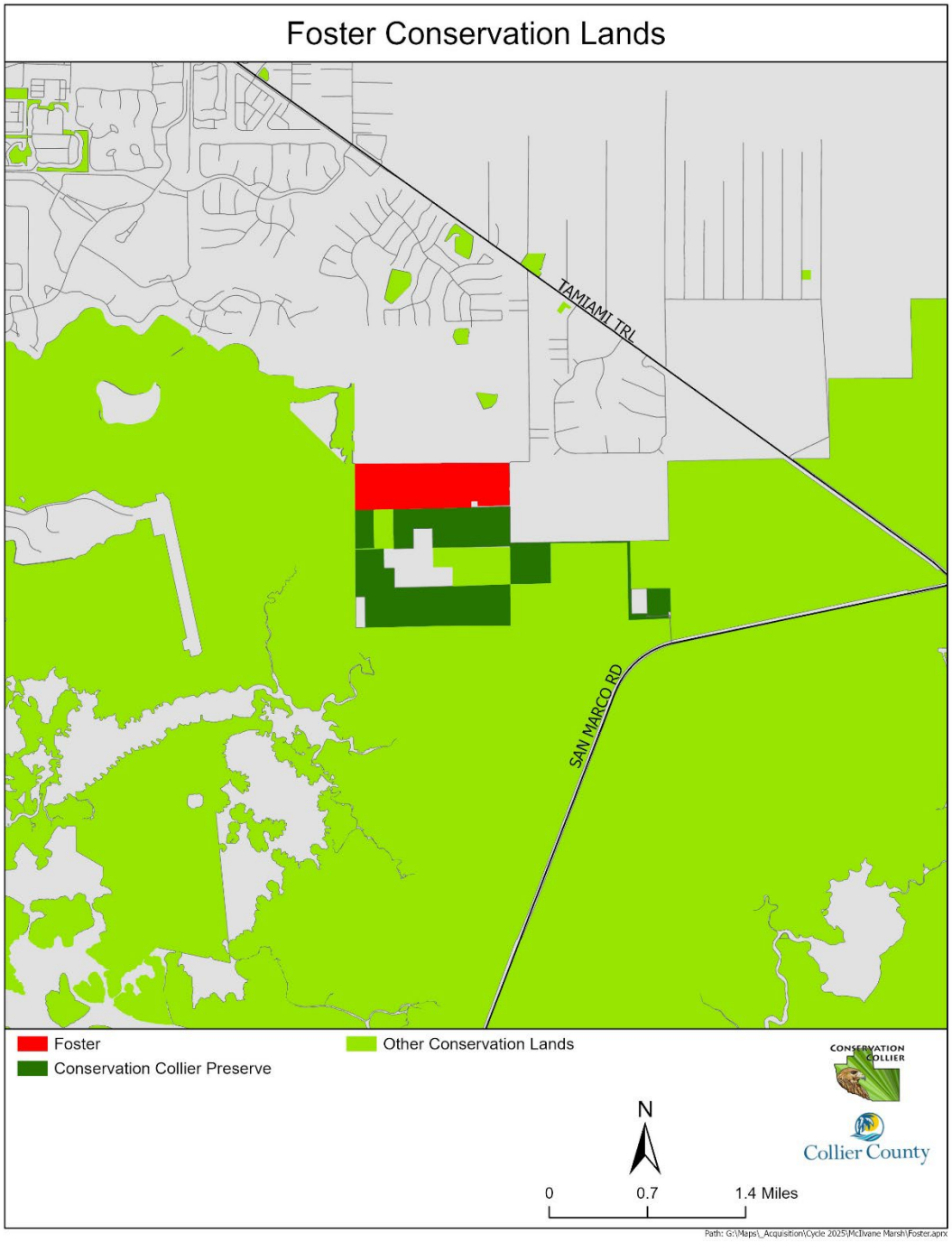

Figure 13 - Conservation Lands

3.2 Human Values

3.2.1 Recreation

This property could provide year-round access for passive, recreational activities like hiking and potentially hunting.

3.2.2 Accessibility

The property is accessible via a private road behind a locked gate off Auto Ranch Rd. Parking is available on-site

3.2.3 Aesthetic/Cultural Enhancement

The property contains good examples of scrubby flatwood habitat and extensive vista views from the high point in the scrub

3.2 Restoration and Management

3.3.1 Vegetation Management

3.3.1.1 Invasive Vegetation

Exotic plants are present at a total estimated density of about 30%. The primary invasive plants observed were Brazilian pepper (*Schinus terebinthifolia*), earleaf acacia (*Acacia auriculiformis*), old world climbing fern *(Lygodium microphyllum)*, and melaleuca (*Melaleuca quinquenervia*). Mahoe (*Taliparitiliaceum*), cogongrass (*Imperata cylindrica*), torpedograss (*Panicum repens*), and white lead tree (*Leucaena leucocephala*) were also observed. The old-world climbing fern is quite dense in some areas of the property. Treatment of exotics within most of the property will be difficult due to the thick vegetation and tough terrain.

3.3.1.2 Prescribed Fire

The natural communities on the property would benefit from fire. Firebreak installation would be required prior to application of fire.

3.3.2 Remediation and Site Security

The eastern side of the property has been an auto junk yard/salvage yard since at least 1969. Soil and groundwater testing is necessary to identify the extent, if any, of environmental contamination. Remediation could be costly and difficult. The old building and piles of roofing tiles need to be removed before acquisition, or cost of removal should be deducted from sale price. Additionally, trespass occurs on the property. Individuals trespass and use the old building as target practice.

3.3.3 Assistance

Prescribed fire management assistance is anticipated from Rookery Bay NERR and Collier Seminole State Park.

3.4 Vulnerability

3.4.1 Zoning and Land Use

Current Zoning is Agricultural, which allows 1 unit per 5 acres. A Zoning Certification Letter request was made in June 2021 by a potential buyer that was looking to verify whether a re-zone of the property to

Travel Trailer and Recreational Vehicle (TTRVC) would likely be approved. Notes on Collier CityView portal website indicate that County staff would support changing the property to TTRVC as it would be a much better use of the property.

3.4.2 Development Plans

The property is not currently planned for development.

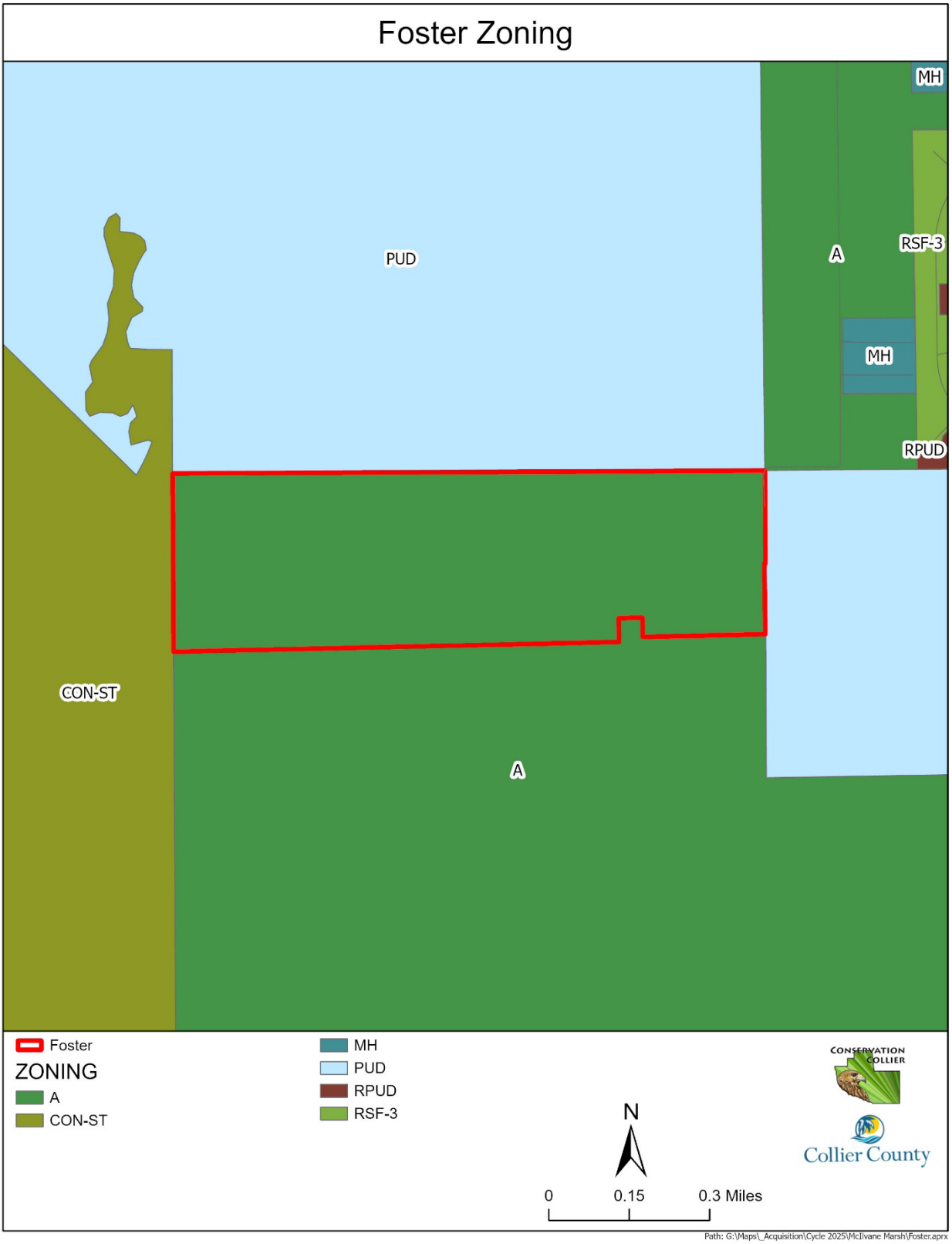

Figure 14 – Zoning

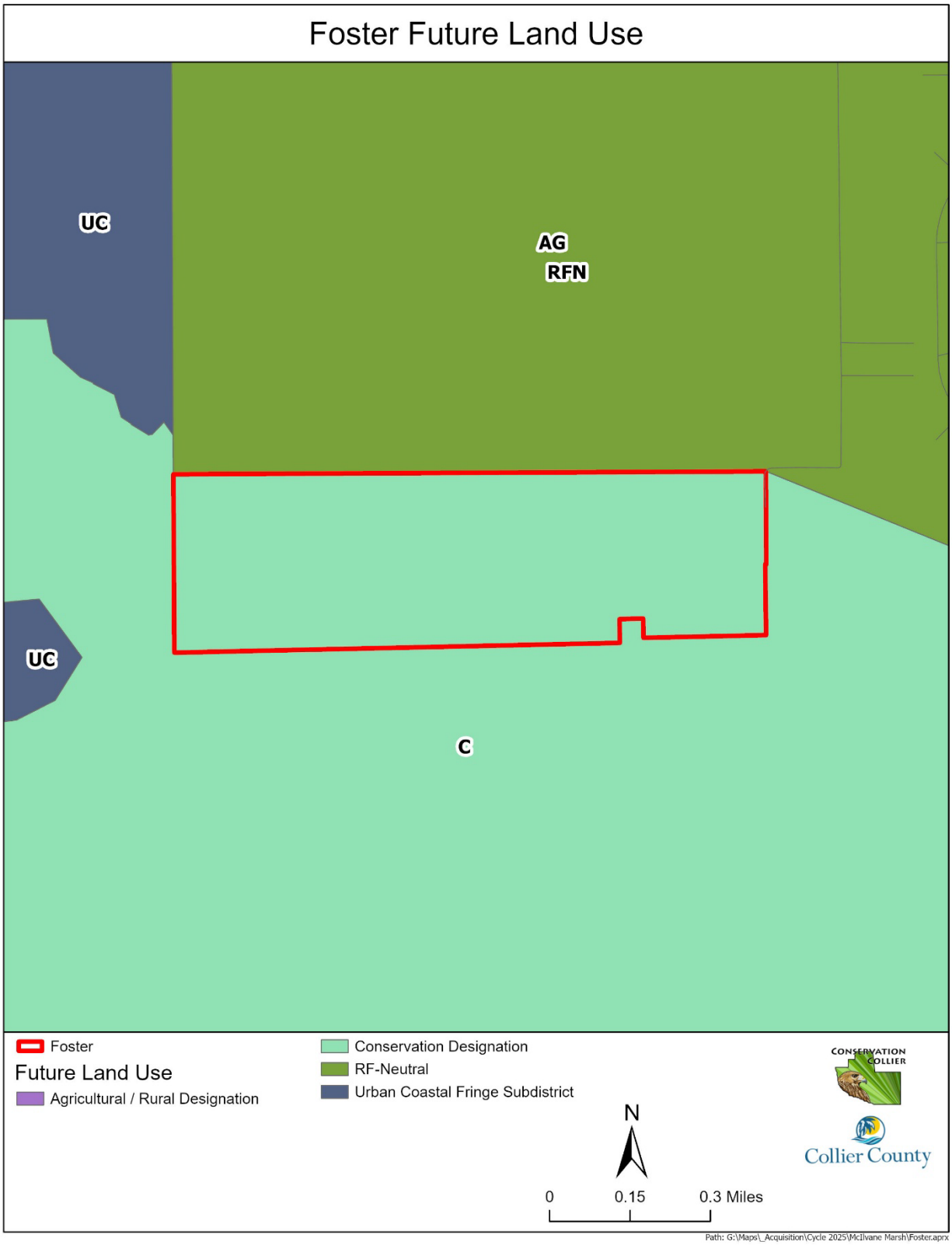

Figure 15 – Future Land Use

4. Acquisition Considerations

Staff would like to bring the following items to the attention of the Advisory Committee during the review of this property. The following items may not have significantly affected the scoring but are worth noting.

The eastern side of the property was used as an auto junk yard since the 1960's, beginning sometime between 1962 and 1969, based on historical aerials. Cars were present throughout the scrubby flatwoods in a 1985 aerial photo. When the current owner acquired the property in the early 1990's, he worked with the FDEP to clean up the operation and remove solid waste throughout the property. He continued to run a car salvage operation on the property until 2021. The salvage operation was monitored by FDEP for stormwater discharge of Aluminum, Iron, Lead, and Suspended Solids under Multi-Sector Generic Permits for Stormwater Discharge Associated with Industrial Activity. The operation exceeded stormwater discharge requirements during 2008 and 2010, but met all stormwater discharge requirements during 2003, 2013 and 2018, which resulted in no requirement for stormwater discharge monitoring in 2005, 2015 or 2020. There is no evidence of additional soil or groundwater testing, which would need to be completed prior to acquisition. Piles of roofing tiles and the old building would need to be removed, and any identified environmental contamination would need to be cleaned up to FDEP standards prior to acquisition by Conservation Collier,



Figure 16 – Front of building



Figure 17 – Back of building



Figure 18 – Underneath back of building



Figure 19 – Underneath back of building



Figure 20 – Crushed roofing tiles spread on sugar sand



Figure 21 – Pile of roofing tiles



Figure 22 – 1985 aerial



Figure 23 – 2025 aerial

5. Management Needs and Costs

Table 3 - Estimated Costs of Site Remediation, Improvements, and Management

Management Element	Initial Cost	Annual Recurring Cost	Comments
Invasive Vegetation Removal	$110,300	$25,000	Initial assumes $700/acre (comparable to McIlvane Marsh; recurring assumes $150/acre
Firebreak Installation	$10,000	$5,000	Assumes $2,000/acre initial and $1,000/acre maintenance
Potential Environmental Remediation	TBD	TBD	Phase I and II Environmental Site Assessments will be obtained if moving towards acquistion
TOTAL	**$120,300**	**$30,000**	

6. Potential for Matching Funds

The primary partnering agencies for conservation acquisitions, and those identified in the ordinance are the Florida Communities Trust (FCT) and The Florida Forever Program. The following highlights potential for partnering funds, as communicated by agency staff.

Florida Communities Trust - Parks and Open Space Florida Forever grant program: The FCT Parks and Open Space Florida Forever grant program provides grant funds to local governments and nonprofit organizations to acquire conservation lands, urban open spaces, parks and greenways. Application for this program is typically made for pre-acquired sites up to two years from the time of acquisition. The Parks and Open Space Florida Forever grant program assists the Department of Environmental Protection in helping communities meet the challenges of growth, supporting viable community development and protecting natural resources and open space. The program receives 21 percent Florida Forever appropriation.

Florida Forever Program: The Conservation Collier Program has not been successful in partnering with the Florida Forever Program due to conflicting acquisition policies and issues regarding joint title between the programs.

Additional Funding Sources: There are no additional funding sources known at this time.

7. Secondary Criteria Scoring Form

Property Name: Foster			
Target Protection Mailing Area: McIlvane Marsh			
Folio(s): 00775240001, 00775280003, 00775760109, 00775760206			
Secondary Criteria Scoring	**Possible Points**	**Awarded Points**	**Percentage**
1 - Ecological Value	**160**	**123**	**77**
2 - Human Value	**80**	**37**	**46**
3 - Restoration and Management	**80**	**48**	**60**
4 - Vulnerability	**80**	**38**	**47**
TOTAL SCORE	**400**	**246**	**61**
1 - ECOLOGICAL VALUES (40% of total)	**Possible Points**	**Awarded Points**	**Comments**
1.1 VEGETATIVE COMMUNITIES	**200**	**150**	
1.1.1 - Priority natural communities (Select highest score)			
a. Parcel contains CLIP4 Priority 1 communities (1130 - Rockland Hammock, 1210 - Scrub, 1213 - Sand Pine Scrub, 1214 - Coastal Scrub, 1312 - Scrubby Flatwoods, 1610 - Beach Dune, 1620 - Coastal Berm, 1630 - Coastal Grasslands, 1640 - Coastal Strand, or 1650 - Maritime Hammock)	100	100	Scrubby flatwoods
b. Parcel contains CLIP4 Priority 2 communities (22211 - Hydric Pine Flatwoods, 2221 - Wet Flatwoods, or 1311 - Mesic Flatwoods)	60		
c. Parcel contains CLIP4 Priority 3 communities (5250 - Mangrove Swamp, or 5240 - Salt Marsh)	50		
d. Parcel contains CLIP4 Priority 4 communities (5250 - Mangrove Swamp)	25		
1.1.2 - Plant community diversity (Select the highest score)			
a. Parcel has ≥ 3 CLC native plant communities (Florida Cooperative Land Cover Classification System native plant communities)	20	20	
b. Parcel has ≤ 2 CLC native plant communities	10		
c. Parcel has 0 CLC native plant communities	0		
1.1.3 - Listed plant species (excluding commercially exploited species) (Select the highest score)			
a. Parcel has ≥5 CLC listed plant species	30		
b. Parcel has 3-4 CLC listed plant species	20		
c. Parcel has ≤ 2 CLC listed plant species	10		
d. Parcel has 0 CLC listed plant species	0	0	
1.1.4 - Invasive Plant Infestation (Select highest score)			
a. 0 - 10% infestation	50		
b. 10 - 25% infestation	40		
c. 25 - 50% infestation	30	30	
d. 50 - 75% infestation	20		
e. ≥75% infestation	10		

1.2 - WILDLIFE COMMUNITIES	100	100	
1.2.1 - Listed wildlife species (Select the highest score)			
a. Listed wildlife species documented on the parcel	80	80	GOTO; panther
b. Listed wildlife species documented on adjacent property	60		
c CLIP Potential Habitat Richness ≥5 species	40		
d. No listed wildlife documented near parcel	0		
1.2.2 - Significant wildlife habitat (Rookeries, roosts, denning sites, nesting grounds, high population densities, etc) (Select highest score)			
a. Parcel protects significant wildlife habitat (Please describe)	20	20	
b. Parcel enhances adjacent to significant wildlife habitat (Please describe)	10		
c. Parcel does not enhance significant wildlife habitat	0		
1.3 - WATER RESOURCES	**100**	**60**	
1.3.1 - Aquifer recharge (Select the highest score)			
a. Parcel is located within a wellfield protection zone or within a CLIP4 Aquifer Recharge Priority 1 area	40		
b. Parcel is located within a CLIP4 Aquifer Recharge Priority 2 or 3 area	30		
c. Parcel is located within a CLIP4 Aquifer Recharge Priority 4 or 5 area	20		
d. Parcel is located within a CLIP4 Aquifer Recharge Priority 6 area	0	0	
1.3.2 - Surface Water Protection (Select the highest score)			
a. Parcel is contiguous with and provides buffering for an Outstanding Florida Waterbody	30	30	
b. Parcel is contiguous with and provides buffering for a creek, river, lake, canal or other surface water body	20		
c. Parcel is contiguous with and provides buffering for an identified flowway	15		
d. Wetlands exist on site	10		
e. Parcel does not provide opportunities for surface water quality enhancement	0		
1.3.3 - Floodplain Management (Select all that apply)			
a. Parcel has depressional or slough soils	10	10	
b. Parcel has known history of flooding and is likely to provide onsite water attenuation	10	10	
c. Parcel provides storm surge buffering	10	10	
d. Parcel does not provide floodplain management benefits	0		
1.4 - ECOSYSTEM CONNECTIVITY	**200**	**150**	
1.4.1 - Acreage (Select Highest Score)			
a. Parcel is ≥ 300 acres	150		
b. Parcel is ≥ 100 acres	100	100	
b. Parcel is ≥ 50 acres	75		

c. Parcel is ≥ 25 acres	25		
d. Parcel is ≥ 10 acres	15		
e. Parcel is < 10 acres	0		
1.4.2 - Connectivity (Select highest score)			
a. Parcel is immediately contiguous with conservation lands	50	50	
b. Parcel is not immediately contiguous, but parcels between it and nearby conservation lands are undeveloped	25		
c. Parcel is isolated from conservation land	0		
ECOLOGICAL VALUES TOTAL POINTS	**600**	**460**	
ECOLOGICAL VALUES WEIGHTED SCORE (Awarded Points/Possible Points*160)	**160**	**123**	
2 - HUMAN VALUES (20%)	**Possible Points**	**Awarded Points**	**Comments**
2.1 - RECREATION	**120**	**40**	
2.1.1 - Compatible recreation activities (Select all that apply)			
a. Hunting	20	20	
b. Fishing	20		
c. Water-based recreation (paddling, swimming, etc)	20		
d. Biking	20		
e. Equestrian	20		
f. Passive natural-resource based recreation (Hiking, photography, wildlife watching, environmental education, etc)	20	20	
g. Parcel is incompatible with nature-based recreation	0		
2.2 - ACCESSIBILITY	**120**	**80**	
2.2.1 - Seasonality (Select the highest score)			
a. Parcel accessible for land-based recreation year round	20	20	
b. Parcel accessible for land-based recreation seasonally	10		
c. Parcel is inaccessible for land-based recreation	0		
2.2.2 - Vehicle access (Select the highest score)			
a. Public access via paved road	50		
b. Public access via unpaved road	30		
c. Public access via private road	20	20	
d. No public access	0		
2.2.3 - Parking Availability (Select the highest score)			
a. Minor improvements necessary to provide on-site parking	40	40	
b. Major improvements necessary to provide on-site parking (Requires site development plan)	25		
b. Public parking available nearby or on adjacent preserve	20		
c. Street parking available	10		
d. No public parking available	0		
2.2.4 - Pedestrian access (Select the highest score)			
a. Parcel is easily accessible to pedestrians (within walking distance of housing development)	10		

b. Parcel is not easily accessible to pedestrians	0	0	
2.3 - AESTHETICS/CULTURAL ENHANCEMENT	**40**	**10**	
2.3.1 - Aesthetic/cultural value (Choose all that apply)			
a. Mature/outstanding native vegetation	5	5	
b. Scenic vistas	5	5	
c. Frontage enhances aesthetics of public thoroughfare	10		
d. Archaeological/historical structures present	15		
e. Other (Please describe)	5		
f. None	0		
HUMAN VALUES TOTAL SCORE	**280**	**130**	
HUMAN VALUES WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**37**	
3 - RESTORATION AND MANAGEMENT (20%)	**Possible Points**	**Awarded Points**	**Comments**
3.1 - VEGETATION MANAGEMENT	**120**	**95**	
3.1.1 - Invasive plant management needs (Select the highest score)			
a. Minimal invasive/nuisance plant management necessary to restore and maintain native plant communities (<30%)	100		
b. Moderate invasive/nuisance plant management necessary to restore and maintain native plant communities (30-65%)	75	75	
c. Major invasive/nuisance plant management necessary to restore and maintain native plant communities (>65%)	50		
d. Major invasive/nuisance plant management and replanting necessary to restore and maintain native plant communities (>65%)	25		
e. Restoration of native plant community not feasible	0		
3.1.2 - Prescribed fire necessity and compatibility (Select the highest score)			
a. Parcel contains fire dependent plant communities and is compatible with prescribed fire or parcel does not contain fire dependent plant communities	20	20	
b. Parcel contains fire dependent plant communities and is incompatible with prescribed fire	0		
3.2 - REMEDIATION AND SITE SECURITY	**50**	**5**	
3.2.1 - Site remediation and human conflict potential (Dumping, contamination, trespassing, vandalism, other) (Select the highest score)			
a. Minimal site remediation or human conflict issues predicted	50		
b. Moderate site remediation or human conflict issues predicted (Please describe)	20		
c. Major site remediation or human conflict issues predicted (Please describe)	5	5	Trespassing and potential environmental cleanup
d. Resolving site remediation or human conflict issues not feasible	0		

3.3 - ASSISTANCE	5	5	
3.4.1 - Management assistance by other entity			
a. Management assistance by other entity likely	5	5	RBNERR fire
b. Management assistance by other entity unlikely	0		
RESTORATION AND MANAGEMENT TOTAL SCORE	**175**	**105**	
RESTORATION AND MANAGEMENT WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**48**	
4 - VULNERABILITY (20%)	**Possible Points**	**Awarded Points**	**Comments**
4.1 - ZONING AND LAND USE	**130**	**75**	
4.1.1 - Zoning and land use designation (Select the highest score)			
a. Zoning allows for Single Family, Multifamily, industrial or commercial	100		
b. Zoning allows for density of no greater than 1 unit per 5 acres	75	75	Ag
c. Zoning allows for agricultural use /density of no greater than 1 unit per 40 acres	50		
d. Zoning favors stewardship or conservation	0		
4.1.2 - Future Land Use Type (Select the highest score)			
a. Parcel designated Urban	30		
b. Parcel designated Estates, Rural Fringe Receiving and Neutral, Agriculture	25		
c. Parcel designated Rural Fringe Sending, Rural Lands Stewardship Area	5		
d. Parcel is designated Conservation	0	0	
4.2 - DEVELOPMENT PLANS	**50**	**10**	
4.2.1 - Development plans (Select the highest score)			
a. Parcel has been approved for development	20		
b. SFWMD and/or USACOE permit has been applied for or SDP application has been submitted	15		
c. Parcel has no current development plans	0	0	
4.2.2 - Site characteristics amenable to development (Select all that apply)			
a. Parcel is primarily upland	10		
b. Parcel is along a major roadway	10		
c. Parcel is >10 acres	5	5	
d. Parcel is within 1 mile of a current or planned commercial or multi-unit residential development	5	5	
VULNERABILITY TOTAL SCORE	**180**	**85**	
VULNERABILITY WEIGHTED SCORE (Awarded Points/Possible Points*80)	**80**	**38**	

8. Additional Site Photos



Trail through scrubby flatwoods



Cinderblock “observatory” on cement slab in middle of property



Interior of cinderblock “observatory”



View of property looking west just south of the building



Edge of wetland forested mixed community



Edge of scrubby flatwoods where vehicles were stored



Old-world climbing fern, earleaf acacia, and cogongrass



L

Large patch of old-world climbing fern



Eastern side of property where vehicles were stored looking east



Middle of scrubby flatwoods – concrete slab and cinderblock “observatory” visible



Mixed shrubs community



Mixed shrubs in foreground with wetland forested mixed and freshwater marsh in background



Mixed shrubs in foreground with freshwater marsh and pond in background



From right to left – scrubby flatwoods, hydric pine flatwoods, freshwater marsh – note light green lygodium

APPENDIX 1 – Critical Lands and Water Identification Maps (CLIP) Definitions

This report makes use of data layers from the Florida Natural Areas Inventory and University of Florida Critical Lands and Waters Identification Project (CLIP4). CLIP4 is a collection of spatial data that identify statewide priorities for a broad range of natural resources in Florida. It was developed through a collaborative effort between the Florida Areas Natural Inventory (FNAI), the University of Florida GeoPlan Center and Center for Landscape Conservation Planning, and the Florida Fish and Wildlife Conservation Commission (FWC). It is used in the Florida Forever Program to evaluate properties for acquisition. CLIP4 is organized into a set of core natural resource data layers which are representative of 5 resource categories: biodiversity, landscapes, surface water, groundwater and marine. The first 3 categories have also been combined into the Aggregated layer, which identifies 5 priority levels for natural resource conservation.

Below is a description of each of the three CLIP4 data layers used in this report.

Figure 4 - CLIP4 Priority Natural Communities

Consists of 12 priority natural community types: upland glades, pine rocklands, seepage slopes, scrub, sandhill, sandhill upland lakes, rockland hammock, coastal uplands, imperiled coastal lakes, dry prairie, upland pine, pine flatwoods, upland hardwood forest, or coastal wetlands. These natural communities are prioritized by a combination of their heritage global status rank (G-rank) and landscape context, based on the Land Use Intensity Index (subset of CLIP Landscape Integrity Index) and FNAI Potential Natural Areas. Priority 1 includes G1-G3 communities with Very High or High landscape context. Priority 2 includes G1-G3 Medium and G4 Very High/High. Priority 3 includes G4 Medium and G5 Very High/High. Priority 5 is G5 Medium.

This data layer was created by FNAI originally to inform the Florida Forever environmental land acquisition program. The natural communities were mapped primarily based on the FNAI/FWC Cooperative Land Cover (CLC) data layer, which is a compilation of best-available land cover data for the entire state. The CLC is based on both remote-sensed (from aerial photography, primarily from water management district FLUCCS data) and ground-truthed (from field surveys on many conservation lands) data.

Figure 9 - Potential Habitat Richness CLIP4 Map

This CLIP version 4.0 data layer is unchanged from CLIP v3.0. FWC Potential Habitat Richness. Because SHCAs do not address species richness, FWC also developed the potential habitat richness layer to identify areas of overlapping vertebrate species habitat. FWC created a statewide potential habitat model for each species included in their analysis. In some cases, only a portion of the potential habitat was ultimately designated as SHCA for each species. The Potential Habitat Richness layer includes the entire potential habitat model for each species and provides a count of the number of species habitat models occurring at each location. The highest number of focal species co-occurring at any location in the model is 13.

Figure 10 - CLIP4 Aquifer Recharge Priority and Wellfield Protection Zones

High priorities indicate high potential for recharge to an underlying aquifer system (typically the Floridan aquifer but could be intermediate or surficial aquifers in some portions of the state). The highest priorities indicate high potential for recharge to springs or public water supplies. This figure also includes Wellfield Protection Zones. Collier County Wellfield Protection Zones are referenced in the Land Development Code and updated in 2010 by Pollution Control and Prevention Department Staff. The public water supply wellfields, identified in section 3.06.06 and permitted by the SFWMD for potable water to withdraw a minimum of 100,000 average gallons per day (GPD), are identified as protected wellfields, around which specific land use and activity (regulated development) shall be regulated under this section.

COLLIER COUNTY
LAND MANAGEMENT PLAN

FREEDOM PARK
(F.K.A. GORDON RIVER WATER QUALITY PARK)
FCT PROJECT NO. 05-027-FF5
1515 GOLDEN GATE PKWY NAPLES, FL 34105

&

GORDON RIVER GREENWAY PARK
FCT PROJECT NO. 06-043-FF6
1596 GOLDEN GATE PKWY NAPLES, FL 34105

ORIGINALLY PREPARED BY:
MARGARET BISHOP, COLLIER COUNTY STORMWATER MANAGEMENT DEPARTMENT
JULY 2006

REVISED TO INCLUDE GORDON RIVER GREENWAY PARK BY:
AMANDA TOWNSEND, COLLIER COUNTY PUBLIC SERVICES DIVISION
MARCH 2007

REVISED TO ADD CONSERVATION COLLIER PARCEL BY:
BARRY WILLIAMS, DIRECTOR, COLLIER COUNTY PARKS AND RECREATION DIVISION AND
ALEXANDRA SULECKI, CONSERVATION COLLIER
MAY 2012

UPDATED BY:
TURRELL HALL, & ASSOCIATES, INC. FOR COLLIER COUNTY PARKS AND RECREATION
DIVISION & PARKER SMITH, COMMUNITY AND HUMAN SERVICES DIVISION
FEBRUARY 2025

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1. INTRODUCTION

Freedom Park, formerly called the Gordon River Water Quality Park (FCT Project No. 05-027-FF5) and Gordon River Greenway Park (FCT Project No. 06-043-FF6) form the northernmost section of the Gordon River Greenway Corridor to be known now as the Collier County Gordon River Greenway. This~~, a~~ 2-mile ecological trail corridor centrally located within the Naples-Collier County urban area. The 50-acre Freedom Park, at the northern end of the corridor, is located at 1515 Golden Gate Parkway, Naples, on the north side of Golden Gate Parkway and east of Goodlette-Frank Road within the jurisdictional boundaries of the City of Naples. The ~~117~~124+-acre Gordon River Greenway Park is located at 1596 Golden Gate Pkwy, Naples, south of Golden Gate Parkway and east of Goodlette Frank Road, within the unincorporated area of Collier County (Exhibit A). Both parks are located within the Gordon River Greenway Basin, which has been identified by the South Florida Water Management District as a Tier 2 Priority Water Body.

The ~~development of the~~ larger Greenway Corridor~~, which will~~ extends ~~farther~~ southward with added lands which include a 7± acre County-owned parcel to the south, a 20± acre parcel owned by the Naples Airport Authority, another 36± acre parcel owned by the Naples Airport Authority, and a bridge connecting the eastern Greenway to the new City of Naples Baker Park along the Gordon River's west banks.~~from County lands into the Naples Bay and City of Naples area, with connecting trails and public access points, is a community project that will unfold over time, and involves numerous c~~ Community P~~p~~artners~~. These~~ with the additional corridor lands include the City of Naples, the Naples Airport Authority, the Conservancy of Southwest Florida, the Southwest Florida Land Preservation Trust and the Naples Zoo. Adjacent land uses include Residential, Conservation, Commercial, Public Service, Planned Development, and Mixed Use (refer to Exhibit B for Surrounding Public Lands Map). There are no anticipated conflicts regarding the uses or management of the sites.

~~This~~ The original Land Management Plan ~~is being~~was revised in 2012 to amend the boundaries of the Gordon River Greenway Park ~~and~~ to include portions of conservation lands managed by the Conservation Collier Program that are part of the overall Gordon River Greenway Park under the Florida Communities Trust Declaration of Restrictive Covenants. Boundary amendments reflect a 2011 exchange of parcels between the Gordon River Greenway Park and the Naples Zoo consisting of the following: A 6.4-acre parcel belonging to the Gordon River Greenway Park lying along the north side of the Naples Zoo was exchanged to the Naples Zoo in return for a 2.9-acre parcel adjoining the zoo on its south side. This exchange removed the northern access arm on the western side of the Park and increased the size of the southern access arm, also on the western side of the Park. Subsequent discussions to resolve the land exchange with FCT resulted in the agreement to exclude the 4.7- acre shared parking lot on the southern access arm on the west side of the park along Goodlette Road.

Conservation Collier, Collier County's Environmental Land Acquisition and Management Program, was established in 2002 to acquire, preserve, restore, and maintain vital and significant threatened natural lands, forest upland and wetland communities located in Collier County, for the benefit of present and future generations. ~~In 2008, after~~

~~the County had acquired Freedom Park, the eastern 12.5 acres were transferred to the Conservation Collier Program, remaining under Collier County ownership. Freedom Park, except for the 10.4-acre storm water pond as shown in Exhibits A and A-1, is currently covered under an FCT Declaration of Restrictive Covenants (OR Book 4103 PG 3415) (Exhibit F-1). The only change for Freedom Park is to reflect that the Conservation Collier Program is now the managing entity of the eastern 12.5 acres. An Interdepartmental Agreement identifying management responsibilities for partner County Departments is attached as Exhibit N. The more significant change relating to Conservation Collier is that~~ In 2012 a 4~~1.3~~3.5-acre Conservation Collier parcel ~~is being~~was added to the

Declaration of Restrictive Covenants for The Gordon River Greenway Park to resolve FCT concerns about the zoo expansion to include the oversized parking area. The parcel was included as part of the land exchange so that the zoo may expand as requested by the County. The overall agreements between FCT and Collier County, incorporating the land exchange, removal of the parking lot, and addition of Conservation Collier lands, enlarged the total area of the Gordon River Greenway Park subject to the Declaration of Restrictive Covenants by 38 acres - from 79 acres to a new total of 117 acres (See Exhibit A for locations of exchanged, included, and excluded lands).

Further, the goal of the land management plan itself is to ensure that both project sites, except for lands intentionally excluded, will be developed in accordance with the applicable Declaration of Restrictive Covenants and in furtherance of the purpose of the grant applications.

A separate Gordon River Greenway Preserve Final Management Plan is attached to this plan as Appendix A. The Gordon River Greenway Preserve Final Management Plan is specific to Conservation Collier's portion of Gordon River Greenway Park and is intended to compliment and work in concert with the FCT plan.

Both parks are located within the Gordon River Basin which has been identified by the South Florida Water Management District as a Tier 2 Priority Water Body. Adjacent land uses are urban residential, conservation, incorporated and mixed use. There are no limitations regarding uses or management of the project site.

Freedom Park

The 49.8-acre Freedom Park was purchased and developed in 2004, as part of a Gordon River Master Plan developed in 2002 by the Collier County Stormwater Management Department~~, now called Roadway, Stormwater & Bridge Project Management Capital Construction & Maintenance ("Stormwater").~~ Previously an abandoned citrus grove, with a significant exotic plant infestation (Exhibit C-1), this site was acquired with partial reimbursement by Florida Communities Trust Grant Program in the Florida Forever 2005 cycle. The Collier County ~~Facilities Management Department's~~ Conservation Collier Program purchased Freedom Park's 12.5-acre South Florida Water Management District Conservation Easement from Stormwater in 2008, which did not change the ownership of the property, just the department responsible for management. Additional funding sources for Freedom Park were the South Florida Water Management District/ Big Cypress Basin, Transportation Impact Fees, and Ad Valorem taxes. The site plan involved the development of a system of treatment wetlands, restoration of existing natural wetlands, and creation of public amenities. Freedom Park, except for the 10.4-acre storm water pond as shown in Exhibits A and A-1, is currently covered under an FCT Declaration of Restrictive Covenants (OR Book 4103 PG 3415) (Exhibit F-1). An Interdepartmental Agreement identifying management responsibilities for partner County Departments is attached as Exhibit N.

Freedom Park site conditions prior to development can be described as upland Shrub and Brush with exotic species varying from 10% to over 75%, Reservoir (<10 acres), Mangrove Swamp, Exotic Mixed Wetland Hardwood, Exotic Wetland Hardwood,

Temperate Hardwood, Streams and Waterways, and Roads. Following the project development, restoration, and enhancement activities the site can now be described as Mangrove Swamp, Coastal Hydric Hammock, Floodplain Swamp, Basin Marsh, and Scrubby Flatwoods.

Gordon River Greenway Park

At the same general time as Freedom Park was being acquired, an opportunity arose for Collier County to acquire lands along the Gordon River, which included the Gordon River Greenway Park (exclusive of the Conservation Collier lands), and Naples Zoo lands. In a 2004 public referendum ~~in 2004~~, 73% of County voters approved taxing themselves to provide the bond funding to acquire the Greenway and Zoo lands. With assistance from the Trust for Public Lands, the County acquired the lands and moved forward with its longstanding community dream for the Greenway Corridor. The lands subsequently leased to the Naples Zoo, though part of the overall transaction, were not part of the FCT grant and they are not part of this land management plan.

The development of the 129± acre Gordon River Greenway Park, excluding the 43.54-acre Conservation Collier portion, was funded through a Florida Communities Trust (FCT) Grant within the Florida Forever 2006 cycle. The 41.3-acre Conservation Collier parcel on the south side of the Gordon River Greenway Park was acquired by the County in 2006 using ad valorem funds approved for this purpose in a 2002 voter-approved referendum that established the Conservation Collier Program. No other public or grant funding was used for its acquisition.

~~At the time of acquisition, lands that were to become~~Prior to development and enhancement efforts the Gordon River Greenway Park existing land conditions could be described as ~~, including the Conservation Collier lands, were previously undeveloped and relatively undisturbed. They contain 84 acres of Tidal~~Mangrove Swamp ~~(72 acres of mangrove forest and 12 acres of mixed wetland hardwoods and palms)~~, Wetland Mixed Hardwood, ~~24 acres of~~ Scrubby Flatwoods ~~with a canopy of scattered slash pine and live oak~~, ~~slightly over 2 acres of d~~Disturbed P~~p~~ine F~~f~~latwoods, ~~over 4 acres of c~~Cleared D~~d~~isturbed lands, and ~~approximately 2 acres of s~~Canal Spoil along the ~~shoreline of the~~ southernmost tip ~~left over~~ from ~~creation of the Golden Gate Canal system in~~ the 1950's. Post-development, the project conditions can be described as enhanced Scrubby Flatwoods, Mesic Flatwoods, Maritime Hammock, and Mangrove Swamp.~~The Scrubby Flatwoods area is inhabited by a large population of gopher tortoises. Both uplands and tidal wetlands are significantly infested with exotic plants. Exhibit C-2 shows existing natural communities for the Gordon River Greenway Park.~~

Both Freedom Park and the Gordon River Greenway Park were acquired with funding provided by the Florida Communities Trust, and this Land Management Plan was developed to ensure that both project sites, except for lands intentionally excluded, have been developed in accordance with the applicable Declarations of Restrictive Covenants and in furtherance of the purpose of the grant applications.

Notable milestones within the Freedom Park and Gordon River Greenway Park systems since the 2012 Land Management Plan Update~~Major accomplishments within the update time frame (2007-2012)~~ include:

- Permitting and construction of a new Freedom Park Bypass Outfall Improvement Project along the northern property boundary.
- Completion of the Freedom Memorial.
- Construction and completion of the Greenway Park and associated boardwalks and trail systems.
- Completion of permitted mitigation restoration/ creation work and mitigation monitoring requirements for Freedom Park.
- Completion of permitted mitigation restoration/ creation work and mitigation monitoring requirements for the Gordon River Greenway Park.
- Connection of the Gordon River Greenway Park south to other pathways and municipal parks (Exhibit H-1).

~~construction of Freedom Park treatment wetlands and its public use amenities including a 2,500 square foot educational center, pathways, boardwalks and memorial site. Freedom Park currently hosts numerous educational classes, lectures and events for local school children, groups and the general public. The Gordon River Greenway Park, including the Conservation Collier section, has nearly completed the project planning stage and is finalizing both agency and county permits.~~

2. PURPOSE

The primary purpose for the acquisition of the Freedom Park was to develop a system of marshes and ponds that would accept and pre-treat roadside ditch stormwater from Goodlette-Frank Road before it discharges into the already impaired Gordon River,~~stormwater management facility that~~ while also incorporatinges~~s~~ flood protection, ~~water quality treatment~~educational opportunities, and passive recreation. ~~The~~ Gordon River Greenway Park was purchased ~~as part of a larger acquisition for the purpose of~~ to enhance~~ing~~ water quality at the north end of the Gordon River, ~~providing~~ provide passive recreation, provide educational opportunities, protect~~ing~~ natural resources and listed species, ~~promoting environmental education~~ and ~~providing~~ provide a non-motorized transportation alternative for the area at large.

The design objectives for the Freedom Park addressed a local flooding condition ~~which~~ that encompasses nearly 25% (approximately 2.5 square miles) of the surrounding watershed~~, or approximately 2.5 square miles~~. Storm-water treatment occurs as water passes through a series of ponds and marshes, slowing the water sufficiently to allow sedimentation of particulates into the deep lakes and utilizing emergent vegetation in the shallow wetlands to assimilate a portion of the remaining dissolved pollutants. Gordon River Greenway Park ~~will~~ further~~s~~ storm-water treatment goals by providing a secondary passive water quality treatment system. The goal of both active and passive treatment is to filter and cleanse waters entering the Gordon River and ultimately flowing into ~~the~~ Naples Bay.

Freedom Park and the Gordon River Greenway Park had individual land management plans historically, but in 2012 an updated combined plan was developed encompassing both parks under the name Freedom Park and Gordon River Greenway Park Land Management Plan. The Plan will be used to manage both parks in their entirety. ~~This Management Plan will be the overarching plan for both Freedom and Gordon River Greenway Parks. The Collier County Parks and Recreation Department will manage both Freedom and Gordon River Greenway Parks~~Currently the parks are managed by Collier County, excluding Conservation Collier lands, which will be managed by Conservation Collier ~~Program S~~staff utilizing this document in conjunction with~~. A separate~~ their own land management plan, ~~also was previously developed and approved for the Conservation Collier section of the Gordon River Greenway Park. This plan is called the Gordon River Greenway Preserve Land Management Plan (attached as Appendix A) and it will be used for day to day management of the Conservation Collier portion of the Gordon River Greenway Park. The Conservation Collier plan is~~ consistent with ~~this~~ the Freedom Park and Gordon River Greenway Park Land M~~m~~anagement P~~p~~lan. Both Freedom Park and Gordon River Greenway Parks~~The park sites~~ will be managed only for the conservation, protection and enhancement of natural resources~~,~~ and for public outdoor recreation that is compatible with the conservation, protection, and enhancement of the sites.

D~~The d~~esired future conditions and uses of the site~~s~~ will remain as passive parks and preserve lands for public use, owned and ~~to be~~ operated by Collier County. ~~The Freedom Park has public parking, trails, pathways and a 2,500-square-foot building used for educational programming. The Gordon River Greenway Park will feature public parking, a boardwalk and trail system, a canoe/kayak launch, pavilions, fishing platform, informational kiosks and interpretive signage, children's playground, rest rooms and two pedestrian/bike bridges - over the Gordon River and Golden Gate Canal.~~

2.1 PRIORITIZED LIST OF KEY MANAGEMENT OBJECTIVES

Management objectives for both Freedom and Gordon River Greenway Parks are prioritized as follows:

1. Alleviate local residential flooding and improve water quality,
2. Provide passive recreation opportunities,
3. Protect natural resources,
4. Remove or control populations of invasive, exotic or problematic flora and fauna,
5. Restore and maintain native habitats,
6. Provide education opportunities, and
7. Provide non-vehicular transportation choices.

2.2 COMPREHENSIVE PLAN DIRECTIVES

A summary of major comprehensive plan directives for both~~Management of the project sites as proposed is consistent in innumerable ways with~~ the City of Naples and Collier County that would be furthered by the management of the parks as proposed is identified

below.~~Growth Management Plans.~~

2.2.1 *City* of Naples

Coastal Management Element

Water Quality Policy 1-2: Directs the City to reduce stormwater discharge and improve stormwater and receiving water quality through the implementation of the Stormwater Master Plan and Best Management Practices (BMPs) such as the creation of filter marshes, vegetated swales, and living shorelines. (Furthered by Management Objective 1)

Water Quality Policy 1-4: Directs the City to cooperate with Collier County to enforce the wellfield protection ordinance that provides for the protection of health, life, resources, and property through regulation of several things including stormwater management. (Furthered by Management Objective 1)

Natural Resource Protection Policy 2-14: Directs the City to coordinate with Collier County, Rookery Bay National Estuarine Research Reserve, and the South Florida Water Management District (SFWMD) to conserve, manage, and protect natural areas and resources. (Furthered by Management Objective 2)

Water Related Activities Policy 3-3: Directs the City to provide and improve opportunities for recreation and aesthetic enjoyment of coastal resources. (Furthered by Management Objective 3)

Water Related Activities Policy 3-8: Directs the City to participate in the Gordon River Greenway planning process to promote education and recreation of the Gordon River Environment. (Furthered by Management Objective 3)

Coastal High Hazard Areas Policy 5-1: Directs the City to encourage undeveloped land to be used for the preservation of coastal natural resources. (Furthered by Management Objective 5)

Climate Adaptation and Resiliency Policy 8-4: Directs the City to expand walking and bicycling infrastructure as options that produce low or zero emissions. (Furthered by Management Objective 8)

Recreation and Open Space Element

Policy 1-3: Directs the City to preserve the Gordon River Greenway, develop more bikeways and sidewalks, and address beach issues such as red tide, erosion, and parking areas. (Furthered by Management Objective 1)

Policy 1-2: Directs the City to encourage Collier County to expand its recreational program to ease the burden placed on City facilities by residents of the unincorporated areas. (Furthered by Management Objective 1)

Policy 1-13: Directs the City to coordinate the City's park and recreation facilities and activities with Collier County, regional, and state plans and programs. (Furthered by Management Objective 1)

Policy 1-20: Directs the City to develop and adopt an "Official Map" designating future park and recreation sites and open space for those parks and facilities operated by the City and identify those operated by the County. (Furthered by Management Objective 1)

Policy 5-1: Directs the City to support the Southwest Florida Land Preservation Trust in its efforts to establish a greenway bicycle/pedestrian pathway along the Gordon River and Goodlette-Frank Road. (Furthered by Management Objective 5)

Transportation Element

Policy 3-3: Directs the City to continue to develop bike paths, greenways and pedestrian pathways that promote connectivity within and out of the City of Naples. (Furthered by Management Objective 3)

~~The following policies of the City of Naples Growth Management Plan are directly furthered by the management objectives listed above:~~

2.2.2 Collier County

Conservation and Coastal Management Element

Policy 1.3.3: Directs Collier County to continue with management guidelines as defined within the County LDC that provide for the management and conservation of the habitats, species, natural shoreline, and dune systems for the undeveloped coastal barrier and estuarine natural resources protection area. (Furthered by Management Objective 1.3)

Policy 2.2.2: Directs Collier County to limit the specific and cumulative impacts of stormwater run-off, by assuming stormwater systems are designed in such a way that discharged water does not degrade receiving waters and attempt to enhance the timing, quantity, and quality of fresh water to the estuarine system. Non-structural methods such as discharge and storage into wetlands are encouraged. (Furthered by Management Objective 2.2)

Policy 2.3.5: Directs Collier County to continue to have staff coordinate with the City of Naples staff regarding coordinated and cooperative planning, management, and funding programs for limiting specific and cumulative impacts on Naples Bay and its watershed. At a minimum, this agreement includes the following: ensure adequate sites for water-dependent uses, prevent estuarine pollution, control run-off, protect living marine resources, reduce exposure to natural hazards, ensure public access, and provide a continuing monitoring program. (Furthered by Management Objective 2.3)

Policy 7.1.2(2)(a) and *(b)*: Directs Collier County to include a public awareness program to educate residents about the on-site preserve and the need to maintain habitat within the preserve for listed species within Management Plans for all new preserves. For parcels containing gopher tortoises (Gopherus polyphemus), habitat management plans are required and shall give priority to protecting the largest most contiguous gopher tortoise habitat with the greatest number of active burrows, and for providing a connection to off-site adjacent gopher tortoise preserves. (Furthered by Management Objective 7.1)

Policy 10.1.1: The County shall prioritize water-dependent and water-related uses as follows: a. Public recreational facilities over private recreational facilities. (Furthered by Management Objective 10.1)

Policy 10.2: Ensure that access to beaches, shores, and waterways remains available to the public and continue with the County's program to expand the availability of such access and a method to fund its acquisition. (Furthered by Management Objective 10.2)

Recreation and Open Space Element

Policy 1.1.2: Encourage the continuation and expanded use of public schools and other public and private facilities by the general public to maximize the benefit from available facilities. (Furthered by Management Objective 1.1)

Policy 1.1.5: The County shall continue to establish and implement a program with appropriate criteria to designate or acquire open space areas and natural reservations.

Policy 1.3.1: County-owned or managed parks and recreation facilities shall have automobile, bicycle, and/or pedestrian access, where the location is appropriate and where such access is economically feasible, with specific consideration given to alternative forms of transportation that would reduce VMT and greenhouse gas. (Furthered by Management Objective 1.3)

Policy 1.4.2: Collier County shall continue to coordinate the provision of recreational facilities and activities with other governmental jurisdictions that own or operate such facilities and activities within, or adjacent to, Collier County. (Furthered by Management Objective 1.4)

Policy 2.1.1: The Parks and Recreation Department will acquire land to meet the needs of the Community and Regional Park Plan, including sufficient land to allow for a portion of these sites to remain in passive open space. (Furthered by Management Objective 2.1)

Policy 2.1.6: The County shall encourage the development of pedestrian pathways and bike lanes from the surrounding residential communities to park sites where general public access can be supported.

Transportation Element

Policy 4.1: Directs County staff to incorporate the Collier County Comprehensive Pathways Plan into this Transportation Element by reference and will periodically update the Pathways Plan as needed. (Furthered by Management Objective 4)

Policy 4.2: Directs County staff to provide an interconnected and continuous bicycle and pedestrian system by constructing the improvements identified on the 2030 Pathway Facilities Map series as funds permit. (Furthered by Management Objective 4)

Stormwater Management Sub-Element

Policy 1.4: The County shall continue to evaluate structural and non-structural measures for restoring historical hydroperiods in impacted watersheds where possible and for reducing the impacts of canal and stormwater discharges to estuaries. Selected measures will be implemented through the watershed management planning process identified within Goal 2 of the Conservation and Coastal Management Element of the Growth Management Plan. (Furthered by Management Objective 1)~~Conservation and Coastal Management Element Policy 2-4 directs the City to cooperate with Collier County to enforce the wellfield protection ordinance that provides for the protection of health, life, resources and property through regulation of several things including stormwater management. (Furthered by Management Objective 1.)~~

~~Recreation and Open Space Element Policy 1-13 directs the City to coordinate the park and recreation facilities and activities with Collier County, regional, and state plans and~~

program. (Furthered by Management Objective 2.)

Conservation and Coastal Management Element Policy 2.5 further directs the City to cooperate with Collier County, the Rookery Bay National Estuarine Research Reserve and the Big Cypress Basin, which is the local arm of the South Florida Water Management District to conserve, manage and protect natural areas and resources within more than one jurisdiction. (Furthered by Management Objective 3.)

Transportation Element Policy 3.3 directs the City to assist the Southwest Florida Land Preservation Trust in acquiring necessary easements and funding for the design and construction of a greenway bicycle/pedestrian pathway within the City of Naples including the Gordon River and Goodlette-Frank Road. (Furthered by Management Objective 5.)

The following policies of the Collier County Growth Management Plan are directly furthered by the management objectives listed above:

Collier County Conservation and Coastal Management Element Policy 2.2.2 directs the County to limit the specific and cumulative impacts of stormwater run-off, stormwater systems and to design them in such a way that discharged water does not degrade receiving waters and an attempt is made to enhance the timing, quantity and quality of fresh water to the estuarine system. Non-structural methods such as discharge and storage in wetlands are encouraged. (Furthered by Management Objective 1.)

Conservation and Coastal Management Element Objective 10.2 directs the County to insure that access to beaches, shores and waterways remain available to the public and continue with its program to expand the availability of such access and a method to fund its acquisition and Collier County Recreation and Open Space Element Objective 1.3 directs the County to continue to ensure that all public water bodies are accessible to the general public. (Furthered by Management Objective 2.)

Collier County Conservation and Coastal Management Element Policy 7.1.2(2)(a)1.c. directs the County to incorporate proper management techniques for protecting listed species and their habitat and specifically mentions Gopher Tortoise populations and habitat. Conservation and Coastal Management Element Policy 7.1.2(2)(b) requires that priority be given to protecting the largest most contiguous gopher tortoise habitat with the greatest number of active burrows. (Furthered by Management Objective 3.)

Collier County Recreation and Open Space Element Policy 3.1.6 directs the County to encourage the development of pedestrian pathways and bike lanes from the surrounding residential communities to park sites. Transportation Element Objective 4 directs the County to provide for the safe and convenient movement of pedestrians, and motorized and non-motorized vehicles through the implementation of the Collier County Comprehensive Pathway Plan. Transportation Element Policy 4.3 further directs the County to provide an interconnected and continuous bicycle and pedestrian system by making the improvements identified on the 2020 Pathway Facilities Map series as funds

~~permit. (Furthered by Management Objective 5.)~~

~~The Future Land Use designation for Freedom Park is Public Land Use - Recreation (City of Naples Future Land Use), changed on February 7, 2007. The zoning classification (City of Naples Zoning) was changed to Transitional Conservation District on March 21, 2007. The Future Land Use designation for the Gordon River Greenway Park and Conservation Collier Preserve sites is currently Urban Mixed-Use District, Urban Residential Subdistrict (Collier County future Land Use). A petition to change the designation to a Public Use District is in process and will be completed by the end of 2012. Original zoning on the Greenway and Conservation Collier sites included Rural Agricultural, Conservation, Commercial Intermediate and Residential Multi-family District-6, with a Special Treatment overlay covering a portion of the project along the Gordon River. These lands were rezoned to Public Use on July 26, 2011. The Special Treatment overlay remains, with a permit approved on February 14, 2012 authorizing project construction within this area. There is an existing Airport Overlay Zone that limits the height of obstructions on parts of the Gordon River Greenway Park as described in Collier County, FL Land Development Code, Section 4.02.06 Standards for Development in Airport Zones and as attached as Exhibit P to the Management Plan, which is consistent with State and Federal laws. to; This provides no potential conflict regarding the uses of the project site, but may require removal or reduction of trees deemed as obstructions.~~

~~The project sites will be identified in all literature and advertising as acquired with funds from the Florida Communities Trust and operated as natural conservation and outdoor recreation areas.~~

2.3 FUTURE LAND USE

Freedom Park

On February 7, 2007, the City of Naples changed the Freedom Park Land Use designation to Public Land Use- Recreation. A Future Land Use Map for both parks is included as Exhibit J-1.

Gordon River Greenway Park

In 2012 Collier County amended the Future Land Use designation of the Gordon River Greenway from Urban Mixed-Use District, Urban Residential Subdistrict, to Conservation Designation.

Collier County will continue to develop this management plan and the discussed project sites acquired using grant funding from Florida Communities Trust in accordance with the Declaration of Restrictive Covenants and in furtherance of the purpose ascribed in the grant application.

2.4 ZONING

Freedom Park

Freedom Park's Zoning classification was changed to Transitional Conservation District on March 21, 2007. A Zoning Map for both parks is included as Exhibit J-2.

Gordon River Greenway Park

Original zoning for this park included Rural Agricultural, Conservation, Commercial Intermediate, and Residential Multi-Family District-6, with a Special Treatment (ST) Overlay along the Gordon River portions. The lands were rezoned to Public Use on July 26, 2011, leaving the ST overlay in place.

In addition to the ST Overlay, there is also an Airport Overlay that limits heights of construction along the Greenway Park to 150 feet as described in the Collier County Land Development Code Section 4.02.06- Standards for Development in Airport Zones and is attached as Exhibit P to the Management Plan. This provides no potential conflict regarding the uses of the project site but may require the removal or reduction of trees deemed as obstructions and it prohibits controlled burns that might cause visibility impairment within three miles of the runways.

All literature and advertising regarding these parks will state that the sites were acquired with funds from the "Florida Communities Trust" and that they are operated as natural conservation areas and outdoor recreation areas.

3 SITE DEVELOPMENT AND IMPROVEMENT

3.1 ACKNOWLEDGEMENT SIGN

Per FCT commitments, signs acknowledging and identifying that both Freedom Park and Gordon River Greenway Park were purchased with funds from the "Florida Communities Trust" were installed. FCT signs are a minimum 3 x 4 feet in size as required. Photos of the installed signs can be found in the Current Conditions photograph sets for both parks (Appendices K-1 and K-2). There are two signs on the Gordon River Greenway parcel. Collier County will continue to ensure at least one sign is present on each parcel at all times.

3.2 PRE-EXISTING PHYSICAL IMPROVEMENTS

Freedom Park

Freedom Park's parcel included minimal existing physical improvements prior to its development as Freedom Park. A dirt trail meandered along the north side of the property adjacent to a shallow stormwater ditch which was regularly maintained for drainage purposes. To the south, an abandoned paved road ran east to west along the south side of the property along the historical alignment of Golden Gate Parkway. Also, three abandoned irrigation wells were found in the central and western portions of the site. These wells were assumed to be remnants of historic citrus production and were abandoned in place to prevent direct conduits between the surface and the surficial aquifer.

Gordon River Park

The Gordon River Greenway Park was minimally impacted by pre-existing improvements. A small home built in the 1950s for the zoo existed adjacent to the river where the kayak launch is located. The Conservation Collier site had no existing improvements.

3.3 CURRENT PHYSICAL IMPROVEMENTS

Freedom Park

Construction began in 2007, and Freedom Park was completed and officially opened to the public in October 2009. The project received the Team Project of the Year Award for 2009 from the Florida Association of County Engineers and Road Superintendents, which was awarded in July 2010.

Freedom Park also now features Collier County's Freedom Memorial. The memorial is constructed of granite, with a structure approximately 13 feet tall at the highest point and 50 feet wide. The

structure is placed within a U.S. boundary-shaped platform. The memorial does not disturb any wetland areas and fits into the passive park theme. The Freedom Memorial pays tribute to the members of our Armed Forces who have sacrificed their lives to preserve our freedom and to honor law enforcement officers, firefighters, emergency medical personnel, and civilians who perished during the 9/11 terrorist attacks with two segments of I-beam from the World Trade Center. The location of the memorial within Freedom Park is indicated on Exhibit G-1.

In addition to the filter marsh system, Collier County, in conjunction with Florida Gulf Coast University, has established an experimental mesocosm that retains nutrients from stormwater and turns them into fertilizer for agriculture and/or horticulture.

Resource and recreation-based improvements on the eastern 12.5 acres managed by Collier County include:

- Approximately 0.66 miles of elevated boardwalks, and
- Three pavilions and three overlooks on the elevated boardwalk with interpretive signage.
- Resource and recreation-based improvements on the western half of the park include:
- Approximately 1.2 miles of paved walking/bicycle trails,
- Approximately 0.2 miles of elevated boardwalk over the filter marshes and lakes with five overlooks/piers and three pavilions containing interpretive signage,
- A water quality pump station,
- A 25-acre filter marsh/ lake system designed to reduce nutrient load from stormwater that comes in from a 2.5-mile radius before being discharged into the Gordon River,
- A 2,500 square foot education center with restrooms, water fountains, trash cans, and a picnic area,
- A picnic pavilion with water fountains, trash cans, and educational signage on the west half of the park,
- A maintenance building in the northwest corner of the park,
- Restrooms in the northwest corner of the park with water fountains and trash cans,
- The Freedom Memorial, memorial bricks within the general area, and a memorial to 9/11 victims,
- A mesocosm “Wetlaculture” experiment in conjunction with Gulf Coast University in the northwest corner of the park, and
- Bicycle racks at the parking lot.

Structures within 1,000 feet of the park include:

- A soccer/football field, track, tennis courts and baseball field at the Naples High School site, which are open to the public.

Gordon River Greenway Park

Resource-based passive recreation facilities at Gordon River Greenway Park include:

- Boardwalks with interpretive signage, pavilions, benches, and location markers,
- Nature trails with interpretive signage, pavilions, benches, trash receptacles, and location markers,
- Picnic pavilions with seating and trash receptacles,
- Trailhead areas include parking, drinking fountains, restrooms, benches, trash receptacles and bicycle racks, and
- Fishing and observation platforms with monofilament disposal tubes.

Onsite user-based recreational facilities include:

- A playground with adjacent restrooms, water fountains, and trash cans,
- Two pedestrian bridges over the river, and
- A kayak launch.

Several adjacent parcels feature user-oriented recreation facilities within 1,000 feet including:

- Ball fields,
- Racquetball courts, and
- A skateboard complex.

For this reason, no user-oriented recreation facilities, other than a children's play area and kayak launch were installed at the Gordon River Greenway Park.

Pathways and boardwalks have lighting for safety purposes. Lighting includes consideration for on/offsite lumens and wildlife. Elevated boardwalks through wetland areas are ten feet wide, while asphalt pathways are twelve feet wide and include numerous bump-out areas and benches to serve as rest stops for walkers and bikers. Bicycle racks are located adjacent to high-activity areas such as picnic shelters and trail heads, while park benches and drinking fountains are found throughout the trail system periodically. Trash receptacles are located near picnic areas, fishing piers, and parking lots, with a few in random trail locations as well.

Pavilions and lookout points were located to minimize the impact on habitat and gopher tortoise burrows but maximize opportunities for wildlife viewing. Prior to initial clearing for pathways and boardwalks, staff inspected the land and vegetation to coordinate the protection of plant and animal species. The total length of the trail network on the Gordon River Greenway Park, including Conservation Collier portions, will be approximately two miles.

Both Freedom Park and Gordon River Greenway Park are accessible via existing sidewalks. Both are now part of the Gordon River Greenway pathway network.

Any proposed modification of the Management Plan and/or undertaking any site alterations or physical improvements that are not addressed in the Recipients approved Management Plan will require prior FCT review and approval.

3.4 LANDSCAPING

Freedom Park features a 2,500-square-foot educational building with terraced and landscaped areas leading walkers to the network of trails winding around the park. Selected indigenous plant species of interest fill the terraces, providing habitat, visual interest, and public educational opportunities as representative ecosystems of South Florida.

On both park sites, landscaping in the traditional sense is limited to those areas surrounding the park entrances and support facility areas such as parking lots and rest rooms. The area that was landscaped among both parks totaled approximately ten to twelve acres. Native species such as live oak, green buttonwood, gumbo-limbo, pigeon plum, sabal palm, and seagrape were used. To the extent permitted by the Land Development Code, landscape design favors a natural appearance. Shade trees were planted in the parking and playground areas.

Landscaped areas were limited to parking areas and entry roads indicated on the Master Site Plans (Exhibit G-1 and G-4).

3.5 WETLAND BUFFER

A 100-foot buffer was provided between parking lots, major facilities, and wetlands as specified on approved plans for both Freedom and Gordon River Parks.

3.6 PARKING

Freedom Park

The one parking lot at Freedom Park is centrally located on the south side of the park and contains approximately 46 bricked parking spaces with 2 paved handicap spaces. Additional space has been designated to accommodate school buses. After entering the park, buses or cars can drive in and around an oval drive to the educational building where individuals can be dropped off in a pedestrian-friendly zone. Within the drive's infield, there is a small treatment swale or shallow cypress and marsh wetland to treat stormwater runoff from the parking facility prior to discharge.

Gordon River Greenway Park

The Gordon River Greenway Park offers parking areas at the north trailhead along Golden Gate Parkway and just south of the Naples Zoo off Goodlette-Frank Road but accessed through the Zoo entrance.

A 50-space parking area which includes 3 handicapped spaces is located at the northeast side of the Gordon River Greenway Park, just south of Golden Gate Parkway. This parking area has the following in terms of parking spaces: 32 gravel, 14 grassed, 1 regular paved, and 3 paved handicapped. Runoff is managed through a box culvert storm sewer into a dry detention area for ground infiltration. All proposed stormwater facilities were designed to current and applicable codes. This parking area is adjacent to a boardwalk and trail system trailhead.

The parking area provided adjacent to the kayak launch offers a combination of paved and bricked parking spaces which total 33 regular and 2 handicapped. Runoff is managed by box culverts leading to two dry detention areas for ground infiltration. All storm water facilities were designed to current and applicable codes. This parking area is adjacent to a children's playground, restrooms, pavilion, and a boardwalk/ trail system trailhead.

A combination of curb and gutter, wheel stops, and raised islands with landscaped beds were utilized in all parking lot facilities within the Gordo River Preserve to keep vehicles confined to designated parking areas.

An additional 4 handicapped parking spaces are provided at the southern end of the park outside of FCT boundaries as part of the Greenway Corridor continuation into City and Naples Airport Authority lands. Additional shared parking with the Naples Zoo will be available on the west side of the Gordon River Greenway Park adjacent to Goodlette-Frank Road. This parking area is not included in lands covered by this Land Management Plan and is not described herein.

3.7 STORMWATER FACILITIES

Stormwater facilities were provided for parking development areas at both park sites. Descriptions of the stormwater facilities and improvements can be found above in Section 3.3 (Restoration).

Per FCT commitments all stormwater facilities were designed to provide recreational open space or wildlife habitat in a parklike setting. The facilities were also designed with shallow sloped and without fencing. Any potential future changes will also abide by these commitments.

3.8 HAZARD MITIGATION

The 100-year flood plain covers approximately 80% of the Freedom Park and the entire Gordon River Greenway Park (Exhibit I). To protect structures built within this zone, the design placed these structures on elevated building pads on appropriate foundations (e.g., stilts or piers). Other

site improvements that are not endangered by flood waters (parking lots, boardwalks, and trails) were designed where the appropriate at-grade elevations allow.

3.9 EDUCATIONAL SIGNAGE

A permanent recognition sign, a minimum size of 3 x 4-feet, shall be maintained at the main entrance for both park areas, as well as an additional sign further down the Greenway paved path. These signs acknowledge that the project site was purchased with funds from the Florida Communities Trust. Interpretive signage has also been placed throughout the boardwalk and trail areas on both sites (Appendices K-1 and K-2).

Freedom Park

Content for signage at Freedom Park includes information about the value and function of wetlands and floodplains, wetland plants and their medicinal uses, specifics about certain species with photos, local wildlife, the watershed, created wetlands and water treatment, information about local and exotic species and history of the site.

Gordon River Greenway Park

Content for the Gordon River Greenway Park interpretive signage includes general information about the park and frequently observed wildlife, a history of and partnerships in the park, exotic plant species and the importance of native vegetation, history of various landowners including Dr. Henry Nehrling a pioneering botanist, and the role of habitats found onsite: mangrove, scrub, pine flatwood, seasonal wetland, hardwood hammock and the Gordon River.

Additional signage may be placed, including, but not limited to regulatory, code, and/or directional signage.

3.10 MUSEUM AND NATURE CENTER

Freedom Park features a 2,500-square-foot staffed educational building, designed to be the focal point for the public who visit the site on a year-round regular basis. This facility is open from 8 am to dusk daily and has a 1,350-square-foot conference room where the public can learn more about the history of the area, surrounding wetlands, treatment facility operations, and the wildlife attracted to the site. Future interpretive opportunities for the building may include local and military history to enhance and contextualize the Freedom Memorial. This content can reinforce the natural history component by emphasizing the restorative power of nature and promote additional visitation to both the environmental and historical offerings of the park. The facility houses a reception area, an office, and standard mechanical and electrical rooms. Restroom facilities are located near the main entrance to the park with access on the outside of the building, so they are available to the public when the facility is closed.

3.11 PERMITS

Each project obtained a South Florida Water Management District Environmental Resource Permit, Army Corps of Engineers Nationwide permit, and Florida Fish and Wildlife Conservation Commission (FWC) gopher tortoise relocation permits.

Freedom Park

Freedom Park is located within the City of Naples, and so requires a City of Naples Zoning and Land Development building permit and City of Naples Fire Department fire compliance and utility permits.

Gordon River Greenway Park

The Gordon River Greenway Park is located within Collier County and requires Collier County Zoning and Land Development building permits and a City of Naples Utility permit. Pedestrian bridges onsite required U.S. Coast Guard permits and Sovereign Submerged Land Leases from the Department of Environmental Protection Division of State Lands. Due to its location next to the Naples Airport, the southernmost of the pedestrian bridges required approval from the Naples Airport Authority and the Federal Aviation Administration.

3.12 EASEMENTS, CONCESSIONS, AND LEASES

Freedom Park

The following is a list of easements granted within the Freedom Park site:

- A Conservation Easement, executed in 2008, in favor of the South Florida Water Management District over the eastern 12.5 acres of the Freedom Park (Exhibit K), and
- Three existing recorded utility easements (Exhibit M-1).

Gordon River Greenway Park

The following is a list of easements granted within the Gordon River Greenway Park site:

- A Conservation Easement, dedicated in favor of the South Florida Water Management District, subject to FCT Grant conditions and incorporating this land management plan, with 3rd party rights of enforcement granted to the Army Corps of Engineers (Exhibit L),
- Two Existing recorded utility easements (Exhibit M-1),
- An easement to the Naples Airport Authority,

- A Sovereign Submerged Lands Lease for each over-river bridge from the Department of Environmental Protection (Exhibit M-3), and
- Additional easements for electric, water, wastewater, phone, and cable also exist at the Kayak launch and north parking nodes.

Should any lease or any interest, the operation of any concession, any sale or option, the granting of any management contracts, or any use by any person other than in such person's capacity as a member of the general public arise or be proposed, FCT will be provided with 60-day prior written notice. No document will be executed without the prior written approval of FCT. All fees collected are placed in a segregated account solely for the upkeep and maintenance of the project sites.

4 NATURAL AND CULTURAL RESOURCES

4.1 SOILS

Soil types at Freedom Park are 80% non-hydric and 20% hydric, with some tidally influenced soils, while at Gordon River Greenway Park the opposite is true with 80% hydric/tidally influenced soils present and 20% non-hydric (Exhibit D). Soils identified by the USDA for Collier County include #17- Basinger Fine Sand (Hydric), #40- Durbin Wulfert Mucks (Frequently Flooded), #7- Immokalee Fine Sand (Non-Hydric), and #11- Hallandale Fine Sand (Non-hydric).

4.2 NATURAL COMMUNITIES

Freedom Park

The western half of Freedom Park is comprised of grassed areas, walking trails, boardwalks Scrubby Flatwoods, and man-made filter marshes and ponds. The eastern half transitions from Scrubby Flatwoods (G2- Globally Imperiled/ S2- State Imperiled) to Coastal Hydric Hammock (G4/S4), Flood Plain Swamp (G4/S4), and a small amount of Mangrove Swamp (G5/S4) in the southeastern portion of the preserve. A brief plant palate description of each habitat is provided below with an updated more detailed list in Appendix K-1.

Scrubby Flatwoods: slash pine (*Pinus elliottii*), (planted) gumbo limbo (*Bursera simaruba*), cabbage palm (*Sabal palmetto*), live oak (*Quercus virginiana*) and sand live oak (*Quercus geminata*), saw palmetto (*Serenoa repens*), Gulf hairawn muhly (*Muhlenbergia capillaris* var. *filipes*), American beautyberry (*Callicarpa americana*), erect prickly pear (*Opuntia stricta*), wire grass (*Aristida spp.*), hairy beach sunflower (*Helianthus debilis spp. vestitus*), and coral bean (*Erythrina herbacea*).

Coastal Hydric Hammock: mahogany (*Swietenia mahagoni*), royal palm (*Roystonea regia*), live oak, laurel oak (*Quercus laurifolia*), bald cypress (*Taxodium distichum*), red maple (*Acer rubrum*), cabbage palm, cocoplum (*Chrysobalanus icaco*), pond apple (*Annona glabra*), wax myrtle (*Morella cerifera*), gumbo limbo, seven-year apple (*Casasia clusiifolia*), strangler fig (*Ficus aurea*), coastal willow (*Salix caroliniana*), myrsine (*Myrsine cubana*), dahoon (*Ilex cassine*), white indigo berry (*Randia aculeata*), winged sumac (*Rhus copallina*), American beautyberry, saw palmetto, wild coffee (*Psychotria nervosa*), silverling (*Baccharis glomeruliflora*), swamp fern (*Telmatoblechnum serrulatum*), giant leather fern (*Acrostichum danaeifolium*), golden leather fern (*Acrostichum aureum*) and giant sword fern (*Nephrolepsis biserrata*).

Flood Plain Swamp: bald cypress, royal palm, pond apple, cabbage palm, laurel oak, red maple, strangler fig, coastal willow, cocoplum, pop ash (*Fraxinus caroliniana*), silverling, false willow (*Baccharis angustifolia*), swamp fern, marsh fern (*Thelypteris palustris*), giant sword fern, giant leather fern, golden leather fern, saw grass (*Cladium jamaicense*), string lily (*Crinum*

americanum), smartweed (*Persicaria sp.*), water sprangle (*Salvinia minima*), blue flag iris (*Iris virginica*), bulltongue arrowhead (*Sagittaria lancifolia*), fire flag (*Thalia geniculata*), common duckweed (*Lemna minor*), pickerel weed (*Pontederia cordata*), and water sprite (*Ceratopteris thalictroides*).

Mangrove Swamp: white mangrove (*Laguncularia racemosa*), red mangrove (*Rhizophora mangle*), buttonwood (*Conocarpus erectus*), coinvine (*Dalbergia brownei*), pond apple, and leather fern (both species) primarily.

Basin Marsh: pond apple, coastal willow, bald cypress, smartweed, spatterdock (*Nuphar advena subsp. advena*), saw grass, fire flag, pickerel weed, bulltongue arrowhead, knotted spikerush (*Eleocharis interstincta*), blue mistflower (*Conoclinium coelestinum*), false nettle (*Boehmeria cylindrica*), giant leather fern, hempvine (*Mikania scandens*), herb-of-grace (*Bacopa monnieri*), and cattail (*Typha sp.*).

Gordon River Greenway Park

The Gordon River Greenway Park is comprised of Mangrove Swamp (G5/S4), Scrubby Flatwoods (G2- Globally Imperiled/ S2- State Imperiled), Mesic Flatwoods (G4/S4) and Maritime Hammock (G3/S2- State Imperiled). A brief plant palate description of each habitat is provided below with an updated more detailed list in Appendix K-2.

Scrubby Flatwoods: slash pine, gumbo limbo (planted), cabbage palm, live oak, chapman oak (*Quercus chapmanii*), scrub oak (*Quercus inopina*), sand live oak, saw palmetto, American beautyberry, erect prickly pear (*Opuntia stricta*), Gulf muhly, coastal plain staggerbush (*Lyonia fruticosa*), rusty staggerbush (*Lyonia ferruginea*), large gallberry (*Ilex coriacea*), hog plum (*Ximenia americana*), bracken fern (*Pteridium aquilinum*), lopsided Indian grass (*Sorghastrum secundum*), wild cotton (*Gossypium hirsutum*), St. Peter's wort (*Hypericum tetrapetalum*), goldenrod (*Solidago sp.*), gopher apple (*Licania michauxii*), Deckert's pinweed (*Lechea deckertii*), hatpins, coastal plain chaffhead (*Carphephorus corymbosus*), narrow leaf silkgrass (*Pityopsis graminifolia*) and wild pennyroyal (*Piloblephis rigida*).

Mesic Flatwoods: slash pine, gumbo limbo, cabbage palm, live oak, laurel oak, Florida royal palm, hog plum, nettle tree (*Trema micrantha*), Florida swamp privet (*Forestiera segregata*), myrsine, false willow, dahoon, Florida Key's blackbead (*Pithecellobium keyense*), weeping fig (*Ficus benjamina*), strangler fig, wax myrtle (*Morella cerifera*), white indigo berry, coastal willow, winged sumac, large gallberry, white stopper (*Eugenia axillaris*), Mullein nightshade (*Solanum erianthum*), cocoplum, coinvine (*Dalbergia brownei*), wild coffee, swamp fern, bracken fern, snowberry (*Chiococca alba*), sweetscent(*Pluchea odorata*), broomsedge bluestem (*Andropogon glomeratus and A. virginicus*), string lily, saw grass, giant sword fern, saw palmetto, and grapevine (*Vitis sp.*).

Mangrove Swamp: white mangrove, red mangrove, buttonwood (*Conocarpus erectus*), rubber vine (*Rhabdadenia biflora*), and giant and golden leather ferns primarily with some black mangrove (*Avicennia germinans*) and needlerush (*Juncus roemerianus*) as well. A number of epiphytic species are also present.

Maritime Hammock: live oak, gumbo limbo, Jamaican dogwood (*Piscidia piscipula*), false tamarind (*Lysiloma latisiliquum*), pigeon plum (*Coccoloba diversifolia*), seagrape (*Coccoloba uvifera*), Florida Key's blackbead, fiddlewood (*Citharexylum spinosum*), Florida swamp privet, wild lime (*Zanthoxylum fagara*), Simpson's stopper (*Myrcianthes fragrans*), white stopper, nettle tree, hog plum, gray nickerbean (*Caesalpinia bonduc*), Jamaican caper (*Capparis cynophallophora*), paradise tree (*Simaruba glauca*), white indigo berry, wild cotton, and firebush (*Hamelia patens*).

4.2.1 Specific Management Tools

- Scrubby Flatwood fuel loads should be reduced at an interval of 8-25 years.
- At a minimum annual maintenance will occur within all preserved areas following an initial inspection and following maintenance work another inspection will occur.
- Most woody invasive species will be killed in-place with a dye-laced herbicide.
- Australian pine and downy rose myrtle will be cut at the base and the stumps sprayed with appropriate herbicide.
- Herbaceous exotic vegetation will be treated with foliar herbicidal applications.
- Invasive vines may be treated via foliar application or by cutting the stems.
- If an area becomes denuded for any reason, supplemental plants can be installed by habitat type and species lists provided in the original mitigation plan (Appendices B and C, and Tables 1 and 2).
- Exotic and/or nuisance species targeted for treatment will include at a minimum those species listed in the most-recent Exotic Pest Plant Council's list of Florida's Most Invasive Species found at https://www.fleppc.org/list/list.htm. Currently the most up to date FLEPPC List is dated 2019 (Exhibit Q).
- Collier County will work to develop and maintain a photo-monitoring program of selected natural communities on the sites.

4.2.2 Unique Features

Freedom Park

Freedom Park offers trails through an imperiled habitat, Scrubby Flatwood, as well as an opportunity to observe listed wildlife species that inhabit the site and utilize the lakes and marshes. Patrons are also able to experience several mature wetland habitats onsite which would normally not be available to most due to wet season inundation levels.

Gordon River Greenway

Gordon River Greenway offers a unique view into the interior of a mature mangrove forest where most people would not normally venture. It also offers trails through two imperiled habitats, Maritime Hammock and Scrubby Flatwood, and access to local waterways for viewing and canoeing/kayaking. Lucky individuals might also spot the protected species that inhabit and utilize this site, such as gopher tortoises and a variety of bird life.

4.2.3 Unique Geological Features

There are not any particularly unique natural or geological features on either park site or known mineral resources.

4.2.4 Invasive Plant Species

Invasive exotics and nuisance species were removed from both parks under restoration plans with the initial establishment of the facilities. Conditions at both parks were subsequently monitored with photographs and reporting for five years to the South Florida Water Management District and U.S. Army Corps of Engineers as required by permits before being deemed successful and released from further reporting requirements.

A long-term management plan is now in place which requires an annual inspection of preserve conditions, maintenance events, and a follow-up inspection to ensure exotic removal was completed as contracted. Conservation Collier lands maintenance is done in-house rather than by sub-contract. The plan also provides a framework of tools from which land management practices can choose such as options for fuel load reduction since controlled burns cannot be utilized within three miles of the Naples Airport. It also dictates how certain invasive species will be managed. As is the case for any preserve system, exotic removal is an ongoing annual effort in perpetuity.

Freedom Park

Examples of recurring species that are targeted for removal within Freedom Park Preserve are shoe-button ardisia, Brazilian pepper, carrotwood, Christmas cassia, climbing ferns, cattail, primrose willow, water sprangle, water sprite, and hempvine.

An exotics removal project is scheduled to be completed by August 2025. A boardwalk renovation and replacement project is also scheduled for FY 2025, and is in the permitting phase.

Gordon River Greenway Park

Examples of recurring species that are targeted for removal within the Collier County Gordon River Greenway include shoe-button ardisia, Brazilian pepper, carrotwood, rosary pea, ear-leaf acacia, woman's tongue, bishopwood, Australian pine, downy rose, smooth rattle box, Christmas cassia, crab grass, ficus trees (other than strangler fig), hurricane grass, cogon grass, lead tree, climbing ferns, melaleuca, pongam tree, Asian sword fern, torpedo grass, cattail, primrose willow, hempvine, buttonweed, java plum, mahoe, tropical almond, and Caesar weed.

An exotics removal project is scheduled for FY 25, to be completed by August 2025.

4.3 RESTORATION

Restoration occurred at both park sites during the initial construction phases and those restoration activities are summarized below. Restoration activities were monitored for five years and released by the permitting agencies (Appendices I-1 and I-2) from further reporting requirements after they were deemed successful. A photo-monitoring element will be developed and implemented as part of this effort to continue and maintain restoration.

Freedom Park

Approximately 15-20 acres of the Freedom Park original grove site was restored to its original Scrubby Flatwood habitat following initial exotic removal activities with the installation of native plantings. Vegetation installed included slash pine, live oak, laurel oak, wax myrtle, wire grass, sand cordgrass, Fakahatchee grass, bluestem, saw palmetto, and leather fern.

In addition to Scrubby Flatwood restoration, there were approximately 15 acres of uplands converted to wetlands and 15 acres of pre-existing wetlands that were enhanced through exotic removal and supplemental planting. At the request of FCT, 10.4 acres, which constituted the portion of the stormwater ponds providing required facilities for the expansion of Goodlette Road, were excerpted from the project as covered by the FCT Declaration of Restrictive Covenants. This area is shown graphically in Exhibit A-1 and in more detail in Exhibit A-2.

At Freedom Park stormwater originates from the drainage canals along Goodlette-Frank Road north of the site and is then run through the ponds and wetlands, ultimately discharging into the natural wetlands. These wetlands enhance the quality of the stormwater runoff prior to discharge from Freedom Park into the Gordon River and provide a measure of flood attenuation and protection. The wetlands also allow for the sedimentation of solid materials within the stormwater. Dissolved materials are then incorporated into plant materials. Additionally, bacteria and other microbial species known to exist in and on wetland vegetation provide a level of contaminate removal action.

Table 1: Approved supplemental planting palate for Freedom Park

Common Name	***Scientific Name***	**Size**
UPLANDS		
slash pine	*Pinus elliottii var. densa*	10-12'/ 7 gal
cabbage palm	*Sabal palmetto*	10-12'/ 7 gal
laurel oak	*Quercus laurifolia*	10-12'/ 7 gal
live oak	*Quercus virginiana*	10-12'/ 7 gal
large gallberry	*Ilex coriacea*	3 gal
saw palmetto	*Serenoa repens*	3 gal
wax myrtle	*Morella cerifera*	3 gal
broomsedge	*Andropogon virginicus*	1 gal
wiregrass	*Aristida stricta*	1 gal
knotroot foxtail	*Setaria geniculata*	1 gal
sand cordgrass	*Spartina bakeri*	1 gal
switchgrass	*Panicum virgatum*	1 gal
WETLANDS		
Cypress		
bald cypress	*Taxodium distichum*	10-12'/ 7 gal
sweetgum	*Liquidambar styraciflua*	10-12'/ 7 gal
sweet bay	*Magnolia virginiana*	10-12'/ 7 gal
red maple	*Acer rubrum*	10-12'/ 7 gal
water oak	*Quercus nigra*	10-12'/ 7 gal
cocoplum	*Chrysobalanus icaco*	3 gal
dahoon	*Ilex cassine*	3 gal
buttonbush	*Cephalanthus occidentalis*	3 gal
maidencane	*Panicum hemitomon*	1 gal
Gulfdune paspalum	*Paspalum monostachyum*	1 gal
Gulf hairawn muhly	*Muhlenbergia capillaris var. filipes*	1 gal
lizard's tail	*Saururus cernuus*	1 gal
swamp fern	*Telmatoblechnum serrulatum*	1 gal
cinnamon fern	*Osmundastrum cinnamomeum*	1 gal
Wetland Forested Mixed		
slash pine	*Pinus elliottii var. densa*	10-12'/ 7 gal
laurel oak	*Quercus laurifolia*	10-12'/ 7 gal
live oak	*Quercus virginiana*	10-12'/ 7 gal
large gallberry	*Ilex coriacea*	3 gal
saw palmetto	*Serenoa repens*	3 gal
wax myrtle	*Morella cerifera*	3 gal
American beautyberry	*Callicarpa americana*	3 gal
wild coffee	*Psychotria nervosa*	3 gal
broomsedge	*Andropogon virginicus*	1 gal
wiregrass	*Aristida stricta*	1 gal
knotroot foxtail	*Setaria geniculata*	1 gal
sand cordgrass	*Spartina bakeri*	1 gal
switchgrass	*Panicum virgatum*	1 gal
Freshwater Marsh		
swamp fern	*Telmatoblechnum serrulatum*	1 gal
cinnamon fern	*Osmundastrum cinnamomeum*	1 gal

alligator flag	*Thalia geniculata*	1 gal
saw grass	*Cladium jamaicense*	1 gal
string lily	*Crinum americanum*	1 gal
maidencane	*Panicum hemitomon*	1 gal

Gordon River Greenway Park

In the Gordon River Greenway Park Scrubby Flatwoods and Mesic Flatwood habitats, natural succession without the aid of replanting was generally used due to the abundance of desirable seed source adjacent to exotic removal zones.

Other improvement works on the Greenway Park site included the creation/restoration of a 0.20-acre spoil deposition area into Mangrove Swamp habitat. The area was graded and then replanted with buttonwood, coco-plum, red mangrove, white mangrove, and leather fern, with sand cordgrass, marsh cordgrass, seashore paspalum, and seashore dropseed grass installed as buffers.

There were also 37 acres of wetland and 21 acres of upland enhancement within the park which was accomplished through the removal of exotic/nuisance plant species. Only a few areas received supplemental plantings. The permit-approved plant palate can be found below in Table 3.1.3.

Table 2: Approved supplemental planting palate for Gordon River Greenway Park.

Common Name	**Scientific Name**	**Size**
giant leather fern	*Acrostichum danaeifolium*	1 gal
black mangrove	*Avicennia germinans*	1 gal
cocoplum	*Chrysobalanus icaco*	1 gal
seagrape	*Coccoloba uvifera*	1 gal
buttonwood	*Conocarpus erectus*	1 gal
white mangrove	*Laguncularia racemosa*	1 gal
wax myrtle	*Morella cerifera*	1 gal
slash pine	*Pinus elliottii var. densa*	1 gal
red mangrove	*Rhizophora mangle*	1 gal
saw palmetto	*Serenoa repens*	1 gal
wiregrass	*Aristida stricta*	4” liner
dune sunflower	*Helianthus debilis*	4” liners
railroad vine	*Ipomea pes caprae*	4” liners
needlerush	*Juncus roemerianus*	4” liners
saltmarsh cordgrass	*Spartina alterniflora*	4” liners
marshhay cordgrass	*Spartina patens*	4” liners
swamp fern	*Telmatoblechnum serrulatum*	4” liner

4.4 Prescribed Burn Plan

Due to the proximity of the Naples Airport and zoning overlay restrictions imposed on nearby lands, no prescribed burning is allowed on either of the park sites due to potential smoke issues for incoming or outgoing flights.

4.5 Feral Animal Program

No feral animals have been spotted on either project site recently. Collier County staff will continue to monitor the sites for feral animals. Should they become an issue in the future, County staff will coordinate efforts with Collier County Code Enforcement for their removal.

The Gordon River area was historically known to house a population of escaped squirrel monkeys, especially around The Commons site just south, however they have not been seen in some years now. It is believed that someone captured a sizable portion of their population to sell and the remaining population did not recover.

4.6 Listed Plant Species

A number of protected plant species have been identified within the Collier County Gordon River Greenway from the initial planning phases to 2020. Those species are identified below in Tables 4 and 5. The potential for other listed species exists with the habitat types present as well and those species are noted in Table 3.

Table 3: Listed plant species potentially found in the Collier County Gordon River Greenway system by habitat.

Common Name	*Scientific Name*	Habitat	State	FNAI	Federal
golden leather fern	*Acrostichum aureum*	Coastal Hydric Hammock, Flood Plain Swamp, Basin Marsh, Mangrove Swamp	T	S3, G5	-
Curtiss' milkweed	*Asclepias curtissii*	Scrubby Flatwood	E	-	-
many-flowered grasspink	*Calopogon multiflorus*	Pine flatwood	T	S2S3, G2G3	-
satin leaf	*Chrysophyllum*	Maritime Hammock	T	-	-
whitewood	*Drypetes diversifolia*	Maritime Hammock	E	S2, G4	-
sand dune spurge	*Euphorbia cumulicola*	Scrubby Flatwood	E	-	-
wild cotton	*Gossypium hirsutum*	Scrubby Flatwood	T	-	-
nodding pinweed	*Lechea cernua*	Scrubby Flatwood	T	S3, G3	-

spreading pinweed	*Lechea divaricata*	Scrubby Flatwood	E	S3, G2	-
hidden orchid	*Maxillaria crassifolia*	Coastal Hydric	E	S1, G4	-
Simpson stopper	*Myrcianthes fragrans*	Maritime Hammock	T	-	-
giant sword fern	*Nephrolepis biserrata*	Coastal Hydric Hammock, Flood Plain Swamp, Mesic Flatwood	T	-	-
hand fern	*Ophioglossum palmatum*	Maritime Hammock	E	S2, G4	-
erect prickly pear	*Opuntia stricta*	Scrubby Flatwood	T	-	-
Florida Keys blackbead	*Pithecellobium keyense*	Maritime Hammock	T	-	-
Florida royal palm	*Roystonea regia*	Coastal Hydric Hammock, Flood Plain Swamp	E	S2, G2G3	-
Mullein nightshade	*Solanum donianum*	Coastal Hydric Hammock, Mesic Flatwood	T	-	-
scrub stylisma	*Stylisma abdita*	Scrubby Flatwood	E	S3, G3	-
West Indian mahogany	*Swietenia mahagoni*	Scrubby Flatwood, Maritime Hammock	T	S3, G3G4	-
northern needleleaf	*Tillandsia balbisiana*	All	T	-	-
stiff-leaf wild pine	*Tillandsia fasciculata*	All	E	-	-
fuzzy-wuzzy airplant	*Tillandsia pruinosa*	All	E	S1, G4	-
banded airplant	*Tillandsia flexuosa*	All	T	S3, G5	-
giant wild pine	*Tillandsia utriculata*	All	E	-	-
soft-leaved wild pine	*Tillandsia variabilis*	All	T	-	-

Protection: E=Endangered, T=Threatened, C=Candidate

FNAI State Codes: S1=Florida critically imperiled, S2=Florida imperiled because of rarity, S3=very rare in Florida or restricted range, S4=apparently secure (could be rare in specific locations) in Florida

FNAI Global Codes: G1=Globally critically imperiled, G2= Globally imperiled because of rarity, G3=very rare in throughout its range or restricted range, G4=apparently secure globally (could be rare in specific locations, T#=rank of taxonomic subgroup

Freedom Park

Table 4: Listed plant species noted in 2020 at Freedom Park.

Common Name	***Scientific Name***	**State**	**FNAI**	**Federal**
golden leather fern	*Acrostichum aureum*	T	S3, G5	-
giant sword fern	*Nephrolepis biserrata*	T	-	-
erect prickly pear	*Opuntia stricta*	T	-	-
Florida royal palm	*Roystonea regia*	E	S2, G2G3	-
Mullein nightshade	*Solanum donianum*	T	-	-
West Indian mahogany	*Swietenia mahagoni*	T	S3, G3G4	-
northern needleleaf	*Tillandsia balbisiana*	T	-	-
stiff-leaf wild pine	*Tillandsia fasciculata*	E	-	-
soft-leaved wild pine	*Tillandsia variabilis*	T	-	-

Gordon River Greenway Preserve

Table 5: Listed plant species noted in 2020 at Gordon River Greenway Park.

Common Name	*Scientific Name*	State	FNAI	Federal
golden leather fern	*Acrostichum aureum*	T	S3, G5	-
satin leaf	*Chrysophyllum oliviforme*	T	-	-
whitewood	*Drypetes diversifolia*	E	S2, G4	-
wild cotton	*Gossypium hirsutum*	T	-	-
Simpson stopper	*Myrcianthes fragrans*	T	-	-
giant sword fern	*Nephrolepis biserrata*	T	-	-
erect prickly pear	*Opuntia stricta*	T	-	-
Florida Key's blackbead	*Pithecellobium keyense*	T	-	-
Florida royal palm	*Roystonea regia*	E	S2, G2G3	-
Mullein nightshade	*Solanum donianum*	T	-	-
West Indian mahogany	*Swietenia mahagoni*	T	S3, G3G4	-
northern needleleaf	*Tillandsia balbisiana*	T	-	-
stiff-leaf wild pine	*Tillandsia fasciculata*	E	-	-
banded wild pine	*Tillandsia flexuosa*	T	S3, G5	-
giant wild pine	*Tillandsia utriculata*	E	-	-
soft-leaf wild pine	*Tillandsia variabilis*	T	-	-
Curacao bush	*Varronia globosa*	E	-	-

4.7 LISTED ANIMAL SPECIES

Both park sites have the potential habitat for numerous listed species to forage, den, roost, burrow, or nest. Listed animal species observed within the park system by various consultants since the parks were founded can be found in Table 7 below. Other species potentially utilizing the site due to habitat types available can be found in Table 6 below.

Table 6: Listed animal species potentially found in the Collier County Gordon River Greenway by habitat.

Common Name	Scientific Name	Habitat	State	FNAI	Federal
American alligator	*Alligator mississippiensis*	Estuarine, Basin	T(S/A)	S4, G5	T(S/A)
Florida burrowing owl	*Athene cunicularia floridana*	Scrubby Flatwood	T	S3,G4T3	-
Florida scrub-jay	*Aphelocoma coerulescens*	Scrubby Flatwood	T	S2, G2?	T
Limpkin	*Aramus guarauna*	All wetland and estuarine habitats	-	S3, G5	-
great white heron	*Ardea herodias occidentalis*	All wetland and estuarine habitats	-	S2,G5T2	-
Eastern diamondback	*Crotalus adamanteus*	Scrub Flatwood	-	S3, G4	UR
eastern indigo snake	*Drymarchon corais couperi*	Scrubby Flatwood	T	S3, G3	T
red-cockadedwoodpecker	*Dryobates borealis*	Scrubby Flatwood	E	S2, G3	E
little blue heron	*Egretta thula*	All wetland and estuarine habitats	T	S4, G5	-

reddish egret	*Egretta rufescens*	All wetland and estuarine habitats	T	S2, G4	-
snowy egret	*Egretta thula*	All wetland and estuarine habitats	-	S3, G5	-
tri-color heron	*Egretta tricolor*	All wetland and estuarine habitats	T	S4, G5	-
swallow-tailed kite	*Elanoides forficatus*	All wetland habitats	-	S2, G5	-
white ibis	*Eudocimus albus*	All wetland and	-	S4, G5	-
Florida bonneted bat	*Eumops floridanus*	All forested habitats	E	S1, G1	E
gopher tortoise	*Gopherus polyphemus*	Scrubby Flatwood	T	S3, G3	C
bald eagle	*Haliaeetus leucocephalus*	All habitats	-	S3, G5	-
gopher frog	*Lithobates capito*	Scrubby Flatwood	-	S3, G3	UR
woodstork	*Mycteria americana*	All wetland habitats	T	S2,G4	T
yellow-crowned night heron	*Nyctanassa violacea*	All wetland and estuarine habitats	-	S3, G5	-
osprey	*Pandion haliaetus*	All habitats	-	S3S4,G5	-
roseate spoonbill	*Platalea ajaja*	Estuarine, Mangrove	T	S2, G5	-
glossy ibis	*Plegadis falcinellus*	All wetland and estuarine habitats	-	S3, G5	-
Smalltooth sawfish	*Pristis pectinate*	Estuarine	-	-	E
mangrove fox squirrel	*Sciurus niger avicennia*	All wetland and Mesic Flatwood habitats	T	S2,G5T5	-
least tern	*Sternula antillarum*	Estuarine, Spoil	T	S3, G4	-
West-Indian manatee	*Trichechus manatus*	Estuarine	T	S2, G2	T
black-whiskered vireo	*Vireo altiloquus*	Mangrove Swamp	-	S3, G5	-
Florida black bear	*Ursus americanus floridanus*	All habitats	-	S4,G5T4	-

Protection: E=Endangered, T=Threatened, S/A=Similar Appearance, C=Candidate

FNAI State Codes: S1=Florida critically imperiled, S2=Florida imperiled because of rarity, S3=very rare in Florida or restricted range, S4=apparently secure (could be rare in specific locations) in Florida

FNAI Global Codes: G1=Globally critically imperiled, G2= Globally imperiled because of rarity, G3=very rare in throughout its range or restricted range, G4=apparently secure globally (could be rare in specific locations, T#=rank of taxonomic subgroup

Table 7: Listed wildlife species observed during various surveys in the Collier County Gordon River Greenway.

Common Name	***Scientific Name***	**State**	**FNAI**	**Federal**
American alligator	*Alligator mississippiensis*	FT(S/A)	S4, G5	T(S/A)
great white heron	*Ardea herodias occidentalis*	-	S2,G5T2	-
little blue heron	*Egretta caerulea*	T	S4, G5	-
reddish egret	*Egretta rufescens*	T	S2, G4	-
snowy egret	*Egretta thula*	-	S3, G5	-
tri-color heron	*Egretta tricolor*	T	S4, G5	-
gopher tortoise	*Gopherus polyphemus*	T	S3, G3	C
yellow-crowned night	*Nyctanassa violacea*	-	S3, G5	-
mangrove fox squirrel	*Sciurus niger avicennia*	T	S2, G5T5	-
least tern	*Sternula antillarum*	T	S3, G4	-

West Indian manatee	*Trichechus manatus*	FT	S2, G2	T

Freedom Park

Freedom Park is located within a Strategic Habitat Conservation Area (SHCA), as identified by the Florida Fish and Wildlife Conservation Commission (FWC) in the 2009 Integrated Wildlife Habitat Ranking System SHCA map (http://myfwc.com/research/gis/data-maps/terrestrial/wildlife-habitat-ranking-system/). Neither the Gordon River Greenway Park nor Conservation Collier site has been identified as within a SHCA.

Within Freedom Park, gopher tortoise habitat was retained and enhanced. During construction gopher tortoises were relocated to suitable habitats within the project site through close coordination with the FWC. Improvements made to the gopher tortoise habitat included restoring indigenous plant materials consumed by gopher tortoises and reserving areas for their burrows and free-range habitat for their movement on site.

Gordon River Greenway Park

In 2008 the Gordon River Greenway Park site was surveyed for gopher tortoises by the consulting firm Kimley-Horn. The resulting map identified approximately 119 active gopher tortoise burrows. Gopher tortoise surveys for the Gordon River Greenway Park and Conservation Collier sites are updated on an as-needed basis when features are added. The most recent gopher tortoise surveys (Appendix L) took place on the Gordon River Greenway Conservation Collier parcels in 2013 and on the kayak launch parcel prior to construction commencement in 2013.

On Gordon River Greenway Park, development was directed as much as possible away from the gopher tortoise burrows in order to protect the species, and all the suitable habitats have been protected within a 22.2-acre gopher tortoise preserve. A small number of gopher tortoises identified at the western main parking site were relocated in 2013. All removals and/or relocations were performed under the authorization of a FWC gopher tortoise relocation permit utilizing the services of an FWC-registered gopher tortoise agent. Exotic removal and habitat restoration activities improved foraging areas for existing and potential listed species. Exotic removal done in gopher tortoise burrow areas followed FWC policy guidelines

To the largest extent possible development was directed away from the highest quality habitat areas and the park was designed to maximized wildlife observation but minimize interaction. Long-term management of these areas includes exotic vegetation monitoring and removal and biomonitoring, with appropriate corrective actions taken to protect listed species and their habitats.

4.8 NATURAL COMMUNITIES INVENTORY

Following the construction completion of the two parks, an annual monitoring and reporting effort was undertaken for five years to establish the success of preserve restoration work and wildlife utilization. Both Freedom Park and Gordon River Greenway were inspected by permitting

agencies and found to meet the mitigation success criteria. No further state or federal permit reporting was required after the final inspections. Annual examinations of the preserves continue by county staff and/or by Conservation Collier staff however, prior to and follow yearly enhancement activities. Observations of plant and wildlife species not already documented onsite will be logged during each annual inspection and recorded on Florida Natural Areas Inventory (FNAI) data sheets if new listed species or habitats are discovered that are not already registered.

The FNAI data forms can be found at: https://www.fnai.org/fieldreportingforms.com and submitted online to

https://cosspp.maps.arcgis.com/apps/GeoForm/index.html?appid=2b80d1a8cf924d70a4688c2b883a671e

A copy of the Field Report Form for Occurrence of Special Animal and Generic Field Form is included as Exhibit E.

A detailed vegetative inventory was performed in 2020 on the Greenway Conservation Collier properties (Appendix K-3) and a more general survey on both Freedom Park and Gordon River Greenway Parks was conducted in November and December of 2020 (Appendices K-1 and K-2).

4.9 Archaeological, Cultural, and Historical Resource Protection

Freedom Park

A Phase I archaeological assessment was performed at the Freedom Park parcel in 2005 by Archaeological and Historical Conservancy, Inc. to locate sites of archaeological and/or historical significance (Appendix D). Based on regional archaeological site models, it was determined that the upland area adjacent to a wetlands area had a moderate potential for archaeological sites being associated with it. Thirty-five shovel tests were dug across the parcel which resulted in the discovery of one archaeological site, the Lucky Lane Site, 8CR925. A Phase II Archeological Assessment of the Lucky Lane site was done in January 2007 by the Archeological and Historical Conservancy, Inc. resulting in the conclusion that the site was a formative period shell scatter and is of local significance. Based on available data, the site was not regarded as potentially eligible for listing on the National Register of Historic Places (Appendix E).

Gordon River Greenway Park

Phase I and, subsequently, Phase II archaeological assessments were conducted by the Archeological and Historical Conservancy, Inc. on the Gordon River Greenway Park and Conservation Collier sites in August and December 2007 respectively (Appendices F and G). The Gordon River Greenway Park and Conservation Collier sites were permitted together to achieve economies of scale, and the survey was done prior to the 2011 land exchange. The Phase I assessment resulted in identifying two previously unrecorded sites, 8CR978 and 8CR1063.

The first site (8CR978), located on Conservation Collier lands, was determined to be a spoil pile likely resulting from clearing activity on the adjacent Naples Airport during the early years of World War II (circa 1942). This site did not qualify for listing on the National Register of Historic Places.

The second site (8CR1063) was located on lands subsequently exchanged with the Naples Zoo in 2011, and no longer subject to this management plan. For reference, the site contained historic refuse dating from the 1920s through the 1940s and was thought to result from off-road dumping or to have been associated with the Henry Nehrling (1853-1929) occupation of the site between 1917 and 1929. Henry Nehrling was an ornithologist and horticulturalist who maintained research gardens on the adjoining Naples Zoo site.

Lands received into the Gordon River Greenway Park in the 2011 land exchange totaling 2.9 acres (Exhibit A-2 – GRG Lands Received FROM Zoo – purple crosshatch), were surveyed for archeological and historical resources in May 2012. The resulting Phase I Cultural Resource Assessment (Appendix H-1) identified one unrecorded historical site, a vacant structure built in 1956-57, of unknown individual historic significance, called the Triangle House (8CR1263), and one redeposited prehistoric site containing 2 small pottery sherds and four faunal bones. Several plants likely associated with the historic use of the parcel were identified and recommended to be documented and relocated. The report stated that the Triangle House may be eligible for listing in the National Register of Historic Places as a contributing structure to a potential resource group associated with the Caribbean Gardens era (1954-1977). The recommendation was that prior to any proposed relocation or demolition of the structure, additional documentation (i.e., interior documentation and further informant interviews) should be completed. Regarding the redeposit site, the report recommended that proposed ground disturbances be monitored by an archeologist when they occur. Collier County reviewed the results of this survey with the Collier County Historical Archeological Preservation Board to determine appropriate preservation actions and the Board declared the Triangle house was not considered a historical resource, so no additional research or preservation was required and that an Archaeologist did not have to be onsite during construction work (Appendix H-2).

The management of the archaeological and historical resources on both sites complied with the provisions of Chapter 267, Florida Statutes specifically Sections 267.2(a) and (b). Any future significant resources discovered will be interpreted for the public interest.

5 MANAGEMENT NEEDS

5.1 COORDINATED MANAGEMENT

Freedom Park

Freedom Park is located across Goodlette-Frank Road from Naples High School and the Naples Zoo (Exhibit B). Little coordinated management is necessary with these sites, but coordination between the three entities managing the park is required. Currently Collier County Parks Division manages the western upland areas, while the western marshes and lakes are under the jurisdiction of the Road, Bridge & Stormwater Maintenance Division. Conservation Collier manages the eastern 12.5 acres of wetlands and hammock habitat. If additional content opportunities are undertaken in the education building as described above, Collier County Museum Division will participate in coordinated management with its scope limited to interpretation.

Gordon River Greenway Park

Gordon River Greenway Park has two trailhead locations: the first, north head, is just south of Freedom Park across Golden Gate Park and the second, western head, is located adjacent to the Naples Zoo and the Conservancy of Southwest Florida. The southernmost piece, not considered a trail head, is located adjacent to the Naples Airport Authority and across the river from the City of Naples Baker Park. The sites are complimentary and little coordinated management is necessary with the City of Naples. The Gordon River Greenway Park is also located adjacent to the Naples Zoo, the Conservancy of Southwest Florida, and the Naples Airport Authority, with 45+ acres managed by Conservation Collier. Management will be coordinated with these entities in the following ways:

- Exotic removal and monitoring programs will be coordinated where possible to take advantage of economies of scale,
- Information obtained from monitoring habitat quality and listed species will be shared with the above-listed and other Gordon River Greenway partners, and management for preservation will be coordinated appropriately, and
- Parks hours, access, and patrol will be coordinated among the above-listed and other Gordon River Greenway partners to avoid conflict and duplication and to present seamless management to the public.

The locations of park sites and adjacent publicly owned and/or conservation lands are illustrated in Exhibit B.

5.1.1 Neighborhoods and Private Lands

Both Freedom and Gordon River Gordon River Greenway Parks are surrounded by commercial and residential properties, with the Gordon River Greenway Park also bordered by the Naples Airport. This presents the need to coordinate the management of the site with adjacent neighborhoods and development. Coordination was initially accomplished through stakeholder and public meetings held during the planning process and by incorporating comments received into project plans. For example, one neighborhood adjoining the Gordon River Greenway Park next to the northeast node parking area expressed concern about the visitors wandering into its adjoining golf course. As a result, a wall was added to shield the parking area from the adjoining property. Another neighborhood east of the Gordon River Greenway Park expressed concern about the trail being located too close to homes. As a result, the trail was moved more to the west. The Naples Airport Authority expressed concern about lighting on a bridge just adjacent to a runway. As a result, a type of lighting was chosen for the bridge that will only shine downward, at foot level.

The presence of residential and commercial development surrounding the Park will also affect the management options available. While prescribed fire may benefit some of the habitat in the Park, it is not planned to be utilized since smoke could cause significant difficulties for Airport operations and surrounding residential areas. Surrounding areas are fully developed, except for one 7.5-acre parcel adjoining the Park on the south side which was recently purchased and added to the park lands but is outside of the FCT scope.

5.2 Trail Network

Both park sites are accessible via existing sidewalks along the arterial roadways (Goodlette-Frank Road and Golden Gate Parkway), with the Conservation Collier site also accessible from North Road, a public road running along the south and west sides of the Naples Airport connecting the site with the Airport-Pulling Road, a major arterial road to the east of the Greenway system. Full crosswalks are available at the intersection of Golden Gate Parkway, Goodlette-Frank Road and Airport Road at North Road.

The projects together form the northernmost section of the Gordon River Greenway Corridor. The Gordon River Greenway is an approximate 2.5-mile ecological and trail corridor centrally located within the Naples-Collier urban area. Recently the southern end of Gordon River Greenway Park was connected by pathways, a new bridge, and preserved land to U.S. 41 South along the Gordon River and via the City of Naples Baker Park in downtown Naples. Partners in the Greenway project include the City of Naples, Naples Airport Authority, Southwest Florida Land Preservation Trust, Conservancy of Southwest Florida, and South Florida Water Management District.

Combined, the two county park sites will provide three vehicular access points with parking and restrooms, serving as important trailhead facilities for the Greenway. Naples Baker Park and the

Naples Airport Authority sites also offer some or limited parking to the south of these County parks. Only vehicular access points at Freedom Park and Gordon River Greenway Park are covered by this plan.

The Gordon River Greenway is identified in the Collier County Comprehensive Pathways Plan, adopted by the Metropolitan Planning Organization on January 12, 2006. An updated map of the Gordon River Greenway Park showing the current trail network is included as Exhibit H.

5.3 GREENWAYS

Uninterrupted wildlife corridors are limited by project boundaries largely in the case of these two parks because they are both located within urban areas. Some connectivity to the south exists, but then preserved lands shift back and forth across North Road.

Marked canoe trails are not provided within the Gordon River Greenway since kayaks and canoes utilize the single riverine water body within the park, the Gordon River. Management efforts to maintain the waterways open for public use fall under the purview of the Florida Department of Environmental Protection, the U.S. Army Corps of Engineers, the U.S. Coast Guard, Collier County, and the City of Naples. Any specific needs or issues will be jointly coordinated as required.

5.4 STAFFING

The following staff will be provided daily within the Collier County Gordon River Greenway Parks:

Freedom Park

- 2 full-time maintenance staff are assigned
- Museum staff may be assigned if the interpretive scope is widened.

Gordon River Greenway Park

- 1 full-time maintenance staff is assigned

Park Rangers will not be assigned full-time to either Park but will periodically patrol public use areas. Conservation Collier will have a Land Manager who will periodically be onsite.

5.5 EDUCATION PROGRAM

Freedom Park

At least 12 regularly scheduled environmental educational programs are conducted annually at Freedom Park, outside of special COVID-19 periods. These programs will include and may also be conducted at Gordon River Greenway Park.

Freedom Park hosts educational programs about the water quality function of Freedom Park as well as the protection of the habitat and species at the park. Educational programs are targeted at youth, primarily students from local elementary, middle, and high schools. Programs are taught by resource professionals from partnership organizations such as the Big Cypress Basin/South Florida Water Management District, the Conservancy of Southwest Florida, Collier County Pollution Control, Parks and Recreation Department, Stormwater Department, and Conservation Collier.

Conservation Collier staff coordinates natural history programs at the Gordon River Greenway Park. Programs include: A Closer Look at the Gopher Tortoise, The Importance of Preserving Wetlands, Wetland Plants and their Medicinal Uses, Birding in the Wetlands, Dr. Nehrling and Exotic Species. The target audience includes the general public, professionals, tourists, and elementary and secondary school children.

If the interpretive scope is widened, Museum staff may supplement these offerings with history-related programs.

5.6 MAINTENANCE

Collier County Parks and Recreation Department personnel are responsible for the day-to-day maintenance activities such as clean-up, waste removal, and general landscape maintenance for most of Freedom and will also be responsible for Gordon River Greenway Park as well. Conservation Collier staff will be responsible for maintenance on the Conservation Collier portions. A maintenance company contracted with Collier County is responsible for the day-to-day maintenance activities such as cleaning restrooms, offices, and public buildings. Annual inspections will also determine the need for signage replacement due to wear and tear, which will be coordinated through Collier County Parks staff. Collier County Facilities Management will be responsible for minor repairs and general building maintenance on the project site.

5.7 SECURITY

Collier County Parks and Recreation personnel have the primary responsibility for the security of the entire project site. Park Rangers will provide routine but irregularly timed patrols of the sites. Patrol is conducted in accordance with the Parks and Recreation Department Security and Protection Plan, with assistance from the Collier County Sheriff's Office and the City of Naples Police Department as appropriate and when deemed necessary.

All County sites will be outfitted with security systems as needed. The design will incorporate signage and other features such as driveway gates will establish boundaries. Park hours and rules will be posted and enforced.

6 REPORTING

6.1 STEWARDSHIP REPORTING

Collier County staff will prepare an Annual Stewardship Report, due to FCT on June 30th of each year until the FCT processes a request to move from annual to 5-Year reporting. The report will evaluate the implementation of the Management Plan.

Any proposed modifications to the Management Plan or undertaking of site alterations/physical improvements that are not addressed in the approved Management Plan will be provided to Florida Communities Trust for review prior to any work commencing.

6.2 REVENUE REPORTING

Collier County staff will prepare annual revenue reports, due to FCT on July 31st of each year until the FCT processes a request to move from annual to 5-Year reporting. The report will include all revenue earned on the project site during the previous State of Florida fiscal year (July 1 – June 30).

Collier County will ensure that all fees collected are placed in a segregated account to be used solely for the upkeep and maintenance of the aforementioned project sites.

7 PRIORITY SCHEDULE

Table 8: Priority Schedule for Collier County Gordon River Greenway.

Project Number: 05-027-FF5, Freedom Park **Project Number: 06-043-FF6, Gordon River Greenway Park** **Grant recipient: Collier County**	**Program**
January Annually Hereafter	Educational Programming
	Exotic Plant Monitoring
	Educational Programming
February Annually Hereafter	Exotic Plant Maintenance if Needed
	Educational Programming
March Annually Hereafter	Educational Programming
April Annually Hereafter	Educational Programming
May Annually Hereafter	Educational Programming

June Annually Hereafter	Exotic Plant Monitoring
	Educational Programming
	Summer Fishing Camp
	Submit Annual Stewardship Report
July Annually Hereafter	Exotic Plant Maintenance
	Educational Programming
	Summer Fishing Camp
August Annually Hereafter	Educational Programming
September Annually Hereafter	Educational Programming
October Annually Hereafter	Educational Programming
November Annually Hereafter	Educational Programming
December Annually Hereafter	Educational Programming

8 COST ESTIMATES AND FUNDING

Freedom Park

Table 9: Development costs associated with Freedom Park.

Preconstruction	
Rezoning	$50,000
Site Development Plan	$820,000
Permitting (including ASR)	$60,000
Impact Fees	$220,000
TOTAL	**$1,150,000**
Construction	
Utilities	$250,000
Burying Electric Lines	$150,000
Site Work	$900,000
Building	$2,500,000
Parking	$450,000
Ponds	$1,500,000
Boardwalks	$950,000
Docks	$150,000
Observation Areas	$100,000
ASR Facility	500,000
Landscaping	$950,000
Signage	$50,000
Rest Rooms	$50,000
TOTAL	**$8,500,000**

The funding source for preconstruction activities and Phase I construction of Freedom Park was the Transportation Services Division, Stormwater Management Department budget. The South Florida Water Management District funded $750,000 for design and construction. Additional grants supplemented County monies.

Gordon River Greenway Park

Table 10: Development costs associated with Gordon River Greenway Park.

Preconstruction	
Exotic Removal	$300,000
Archaeological Assessment	$45,000
Rezone	$50,000
Design	$800,000
Permitting	$35,000
Impact Fees	$200,000
TOTAL	**$1,430,000**
Construction	
Utilities	$175,000
Sitework	$622,000
Pathways	$135,000
Boardwalks	$2,621,000
Bridges	$660,000
Pavilions & Shade Structures	$300,000
Restrooms	$150,000
Maintenance Facility	$65,000
Canoe/Kayak Launch	$135,000
Parking Facilities	$900,000
Access Drives	$300,000
Landscaping	$350,000
Signage	$30,000
Site Furnishings	$275,000
TOTAL	**$6,718,000**

Funding sources for Gordon River Greenway Park include FCT reimbursement, the rent paid by the Naples Zoo on the adjacent property, and a contribution from the Big Cypress Basin. Parks impact fees will supplement these funding sources if necessary. The Conservation Collier portion of the project was acquired and was constructed and managed using separate funding from an ad valorem tax levy approved by Collier County voters in 2002 and again in 2006. Funds have been set aside from this levy for the perpetual maintenance of lands acquired under the Conservation Collier Program.

8.1 OPERATIONS

Freedom Park

The operational costs to run both Freedom and Gordon River Greenway Parks is listed in Tables 10 and 11 below.

Table 11: Operating costs associated with Freedom Park.

Freedom Park Annual Operating Budget	
Maintenance Operating (signs, grounds, structures, housekeeping)	$57,500
Resource Enhancement	$9,000
Education Program, Museum	$3,000
Staffing, Security	$111,000
TOTAL	**$180,500**

Gordon River Greenway Park

Table 12: Operating costs associated with Gordon River Greenway Park.

Gordon River Greenway Park Annual Operating Budget	
Maintenance Operating (signs, grounds, structures, housekeeping)	$45,000
Resource Enhancement	$35,000
Education Program, Museum	Staff Time
Staffing, Security	$60,000
TOTAL	**$140,000**

8.2 FUNDING SOURCES

The funding source for ongoing operating expenses for Parks and Recreation Operations at Freedom and Gordon River Greenway Parks will be Collier County ad valorem taxes. The Funding source for ongoing operating expenses for the Conservation Collier section will be The Conservation Collier Acquisition Trust Fund (Fund 174).

Recreation Camp and park facilities' revenue generated annually is returned to the cost center setup for Freedom Park.

~~**3. NATURAL AND CULTURAL RESOURCES**~~

~~**4. Natural Communities / Invasive Exotic Plants**~~

~~**5. The two primary natural communities found on both Freedom and Gordon River Greenway Parks are classified by the Florida Natural Areas Inventory as Scrubby Flatwoods and Tidal Swamp. There are also smaller areas of Freshwater Tidal Swamp that contain a mix of wetland hardwood tree species and cabbage palms.**~~

~~**6. The 39.5 acres of uplands at Freedom Park were once cleared and drained for citrus production. The grove is long-abandoned and succession of a Scrubby Flatwood occurred. Much of this area was cleared for the construction of the stormwater filtration ponds. Previously existing canopy vegetation in this area generally included**~~

~~scattered native trees such as slash pine, cabbage palm, and oak. The midstory was made up of saw palmetto, gallberry, and wax myrtle. Groundcover was comprised of coastal scrub, grasses and forbs. Some of this vegetation remains surrounding the stormwater ponds. Between the Scrubby Flatwood and Tidal Swamp area of Freedom Park a transition zone containing red maple and cypress trees remains. Tidal Swamp that was heavily infested with Brazilian pepper makes up the remaining 10.5 acre wetland portion. The transition zone and Tidal Swamp areas have been restored through mitigation, including removal of exotic plants and supplemental plantings of native trees and shrubs. Mitigation areas are~~

7. monitored and success criteria are reported annually to the South Florida Water Management District.
8.
9. Natural communities within the Gordon River Greenway Park, include Tidal Swamp, Scrubby Flatwoods, Freshwater Forested Wetlands, and 2 acres of Pine Flatwoods. The remaining acres are disturbed and spoil lands. Scrubby Flatwoods contain a canopy of slash pine and patches of live oak. Palmettos, rusty lyonia, gallberry and other native species make up the midstory and groundcover. This area is significantly infested with downy rose myrtle and Brazilian pepper, both Florida Exotic Pest Plant Council (FLEPPC) Category 1 invasive exotic plants.
10.
11. Tidal Swamp areas have a canopy of red, white and black mangroves and buttonwood with leather fern and swamp lilly as components of groundcover. In these areas, Australian pine is the major FLEPPC Category 1 exotic. Freshwater Forested Wetlands have a canopy containing white mangrove, stoppers, strangler fig and cabbage palm. Midstory and groundcover here includes white indigo berry, wild lime, myrsine, and Florida privet and leather fern. Hardwoods areas have red maple, bay and cypress with scattered pine in the canopy and myrsine and indigoberry characterizing the midstory and groundcover. Spoil area contains mostly Brazilian pepper but also coinvine, dahoon holly, myrsine, grasses and forbs. All communities except for the interior of the mangrove swamps are significantly impacted by invasive exotic plant species including Brazilian pepper, Melaleuca (concentrated in one location), Australian pine, shoebutton ardesia, oyster plant and rosary pea. The Gordon River corridor, along almost the entire length of the Gordon River Greenway Park site, underwent a thorough exotic removal in the spring of 2002. Exotic re-growth in this area seems to be minimal. Exhibits C-1 and C-2 show the natural communities for all sites pre-development.
12.
13. Neither Freedom nor Gordon River Greenway Parks contains any imperiled or critically imperiled habitat (as defined by the Florida Natural areas Inventory), nor any particularly unique natural or geological feature. No mineral resources, such as oil, gas or phosphate are known to be present. Soil types at Freedom Park are approximately 80% upland and 20% hydric, including some tidally influenced soils along the Gordon River. At Gordon River Greenway Park, the opposite is true, with 80% of soil types hydric/tidal and 20% upland (Exhibit D).
14.
15. Development of both project sites will include removal of all exotic species, as identified in The 2011 Exotic Pest Plant Council's list of Florida's Most Invasive Species. This list is periodically updated and the most current list will be used. This can be found at www.fleppc.org/list/list.htm. Exotic removal can be accomplished mechanically in areas heavily infested and slated for restoration with newly created wetlands. Removal will be conducted by hand in areas where native species predominate. Some areas cleared of exotics will be re-vegetated with native species as part of South Florida Water Management District/Florida Department of Environmental Protection Agency permit mitigation plans (i.e., littoral species within the new wetland areas, etc.) (Attached as Appendices B and C). Exotic removal and re-vegetation will be incorporated within the

16. larger development schedules for the projects (See pages Priority Schedule, Section VIII of this plan).
17.
18. Long-term management of Freedom Park and Gordon River Greenway Park includes an exotic vegetation monitoring and removal program to prevent future recruitment and re- infestation and a program of mechanical reduction as a management tools. At Freedom Park and the Gordon River Greenway, mechanical treatment will be conducted as necessary to remove excess fuel loads and reduce fire hazard. A prescribed fire treatment plan is not possible due to the presence of the Naples Airport along the western side of the Park. The scrubby flatwoods community should be reduced at an interval of 8-25 years. For best results, even though prescribed fire will not be applied, permanent firebreaks should be established to address wildfires and to allow access for mechanical reduction.
19.
20. Invasive exotic plant species have been removed at Freedom Park and a monitoring plan is currently in place. Monitoring is conducted biannually with maintenance treatments performed as required. The monitoring program includes photo-monitoring selected natural communities on the site using the same schedule. Monitoring Reports are being submitted to the South Florida Water Management District. The Third Annual Wetland Mitigation Monitoring Report (October 2011) for Freedom Park is provided as Appendix I.
21.
22. An exotic vegetation monitoring and removal plan is in place for the Gordon River Greenway Park. Following initial exotic removal and treatment, with a follow-up of 6 – months, which is planned in 2012, monitoring and maintenance will occur annually.
23.
24. Methods for removal include the following: Most woody invasive species, with the exception of Australian pine and downy rosemyrtle, will be killed in place with a dye-laced herbicide. Melaleuca and other exotic plants within the Mixed Wetland Hardwoods Disturbed community may be hand cut and removed from the site or mechanically cleared, depending upon density of the exotic vegetation and soil moisture conditions. Downy rosemyrtle will be mowed in place and re-sprouts treated with herbicide if soil moisture conditions allow. Where machinery cannot be used, downy rosemyrtle will be hand cut at base, left on-site, and stumps sprayed with an appropriate herbicide. All Australian pines growing within 20 feet of the Gordon River, boardwalks and walkways will be removed, and all other Australian pines will be killed in place, with those over 20 feet in height being topped to 20 feet and killed in place. All herbaceous invasive exotic vegetation will be treated via foliar application. Invasive vines may be treated via foliar application or cut-stem application.
25.
26. Exotic plant species in Freedom Park mitigation areas will be removed using methods described in the Freedom Park Mitigation Wetland Mitigation and Monitoring Plan, provided as Appendix B. Exotic plant species in The Gordon River Greenway Park and Conservation Collier Preserve mitigation areas will be removed using methods described in the Gordon River Greenway Park Mitigation Area Monitoring Maintenance, and Reporting Plan, provided as Appendix C.

~~27. Restoration~~

~~28. *Upland Restoration*~~

~~29. Restoration has been completed on approximately 15 to 20 acres of the Freedom Park site to augment the succession of abandoned grove to Scrubby Flatwood. Exotics were removed and restoration activities within the upland habitat balanced canopy and groundcover plant species to reflect historical conditions for south Florida.~~

~~30.~~

~~31. Vegetation used for the restoration on the Freedom Park site included canopy vegetation such wax myrtle, slash pine, live and laurel oaks. Groundcover vegetation included wire grass, sand cordgrass, fakahatchee grass, bluestem, saw palmetto, and giant leather fern. Natural recruitment of desirable native species has been occuring as the site matures.~~

~~32. In the upland habitat on the Gordon River Greenway Park , natural succession without the aid of restoration is expected to occur following exotic removal. In the event of a natural disaster that damages uplands, restoration may be undertaken. No specific restoration plans exist at present.~~

~~33.~~

~~34. *Wetland Restoration*~~

~~35. Approximately 15 acres of the degraded upland areas of Freedom Park site have been developed with newly constructed wetlands and approximately 15 acres of existing jurisdictional wetlands have been restored. A the request of FCT, 10.4 acres, constituting the portion of the storm water ponds providing required facilities for expansion of Goodlette Road, were excerpted from the project as covered by the FCT Declaration of Restrictive Covenants. This area is shown graphically on Exhibit A and in more detail on Exhibit A-1.~~

~~36.~~

~~37. These wetlands are enhancing the quality of the stormwater runoff prior to discharge from Freedom Park into the Gordon River and provide a measure of flood attenuation and protection. The wetlands allow for the sedimentation of solid materials within the stormwater. Dissolved materials are then incorporated into plant materials. Additionally, bacteria and other microbial species known to exist in and on wetland vegetation provide a level of contaminate removal action.~~

~~38.~~

~~39. At Freedom Park, stormwater is originating from the drainage canals along Goodlette-Frank Road north of the site, and is run through the ponds and wetlands, with discharge into the natural wetlands. On the Gordon River Greenway Park, water will originate from overland flow and runoff from Golden Gate Parkway and be channeled by a swale structure into natural wetlands for filtering and discharge into the Gordon River. The Conservation Collier site was not acquired for water management purposes but will provide passive buffering for runoff from surrounding developed areas before it flows into the Gordon River.~~

~~40.~~

~~41. In wetland mitigation areas on the Gordon River Greenway Park (and Conservation Collier portions), totaling 52 acres, exotics will be removed and some areas enhanced. The Mitigation Area Monitoring, Maintenance and Reporting Plan attached as Appendix C identifies these areas on the Monitoring Transects Map and contains specific criteria~~

42. and species that may be used for supplemental plantings in mitigation areas. Restoration Areas will be photo-monitored.
43.
44. Upland and wetland restoration activities will be incorporated within the larger development schedules for the projects and completed on schedules identified within SFWMD-approved Mitigation Area Monitoring, Maintenance and Reporting Plans (Appendices B and C).
45.
46. Feral Animal Program
47. Currently, no known feral animals exist on either project site. Collier County staff will monitor the sites for feral animals. Should feral animals become an issue in the future, County staff will coordinate efforts with Collier County Domestic Animal Services for their removal.
48.
49. Listed Plant Species
50. Plant species surveys have been conducted on the all sites. The following listed plant species were observed:
51.

52. Common Name	53. Scientific Name	54. Status	
		55. FDA	56. FWS
57. Giant sword fern	58. *Nephrolepis biserata*	59. T	60. NL
61. Common wild pine	62. *Tillandsia fasciculata*	63. E	64. NL
65. Inflated wild pine	66. *Tillandsia balbisiana*	67. T	68. NL
69. Banded wild pine	70. *Tillandsia flexuosa*	71. T	72. NL
73. Whitewood	74. *Drypetes diversifolia*	75. E	76. NL
77. Florida Royal Palm	78. *Roystonea regia*	79. E	80. NL
81. Stiff-leaved wild-pine,	82. *Tillandsia fasciculata*	83. E	84. NL
85. Golden leather fern	86. *Acrostichum aureum*	87. T	88. NL
89. Satinleaf	90. *Chrysophyllum oliviforme*	91. T	92. NL
93. Pricklypear	94. *Opuntia stricta*	95. T	96. NL
97. Mullein nightshade	98. *Solanum donianum*	99. T	100. NL
101. West Indian mahogany	102. *Swietenia mahagoni*	103. T	104. NL

105.
106. Listed species found on either project site will be protected from development and construction activities. On the Gordon River Greenway Park, the exact placement for the boardwalk and trail will be determined in the field in advance of clearing

~~activities to avoid impacting listed plant species. Removal of exotic vegetation from the wetland area will enhance the habitat and ensure continued survival and propagation of these species.~~

~~107.~~

~~108. Listed Animal Species~~

~~109. Freedom Park contained 3 active gopher tortoise burrows; though no gopher tortoises were observed at the time of survey. In 2008 the Gordon River Greenway Park site was surveyed for gopher tortoises by the consulting firm Kimley-Horn. The resulting map identifies approximately 119 active gopher tortoise burrows. Updated gopher tortoise surveys for the Gordon River Greenway Park and Conservation Collier sites are planned for spring 2012 as part of the site development process.~~

110. In addition, and considering surveys done at different times on all three sites, the following listed species have been observed:

111.

112. Common Name(s)	113. Scientific Name	114. tate	115. ederal
116. Gopher Tortoise	117. *Gopherus polyphemus*	118.	119.
120. Brown Pelican	121. *Pelecanus occidentalis*	122. SC	123.
124. Little Blue Heron	125. *Egretta caerulea*	126. SC	127.
128. Snowy Egret	129. *Egretta thula*	130. SC	131.
132. Tricolored Heron	133. *Egretta tricolor*	134. SC	135.
136. Big Cypress Fox Squirrel	137. *Sciurus niger avicennia*	138.	139.
140. West Indian Manatee	141. *Trichechus manatus latirostris*	142.	143.

144. Both sites are potential habitat for numerous other listed plant and animal species. Probable listed plant occurrences include: nodding pinweed, Curtiss milkweed, wild coco, simpson stopper, spreading pinweed, sand dune spurge and scrub stylisma.

145. Probable listed wildlife includes: American alligator, mangrove fox squirrel, limpkin, reddish egret, wood stork, white ibis, roseate spoonbill, eastern indigo snake, and American bald eagle.

146. Freedom Park is located within a Strategic Habitat Conservation Area (SHCA), as identified by the Florida Fish and Wildlife Conservation Commission (FWC) in the 2009 Integrated Wildlife Habitat Ranking System SHCA map (http://myfwc.com/research/gis/data-maps/terrestrial/wildlife-habitat-ranking-system/).

147. Neither the Gordon River Greenway Park nor Conservation Collier site has been identified as within a SHCA.

148.

149. Within Freedom Park, gopher tortoise habitat has been retained. During construction gopher tortoises were relocated to suitable habitat within the project site. Onsite relocation of the gopher tortoises was closely coordinated with the Florida Fish and Wildlife Conservation Commission (FWC). Improvements made to the gopher tortoise habitat included restoring indigenous plant materials consumed by gopher tortoises and reserving areas for their burrows and free-range habitat for their movement on site.

150.

151. On Gordon River Greenway Park, development has been directed as much as possible away from the gopher tortoise burrows in order to protect the species, and all

~~the suitable habitat has been protected in a 22.2 acre gopher tortoise preserve. A small number of gopher tortoises located on the Gordon River Greenway Park at the western main parking site will be relocated. All removals and/or relocations will be performed under authorization of a FWC gopher tortoise relocation permit utilizing the services of a FWC- registered gopher tortoise agent. On both sites exotic removal and planned restoration activities will improve native habitat for existing and potential listed species. To the largest extent possible development has been and will be directed away from the highest quality habitat areas and park design will maximize wildlife observation but minimize interaction. Long-term management of these areas will include exotic vegetation monitoring and removal and bio-monitoring, with appropriate corrective actions taken to~~

protect listed species and their habitats. Exotic removal done in gopher tortoise burrow areas will follow FWC policy guidelines.

Inventory of the Natural Communities

The relatively undisturbed portions of each project site will be surveyed and inventoried to monitor ecological conditions. Inventories are being conducted annually, beginning in 2009 for Freedom Park, and will be conducted annually for the Gordon River Greenway Park beginning in 2012. Restored areas at Freedom Park will be monitored annually for a period of three years, then bi-annually thereafter. The data collected from the resource inventory will be recorded on FNAI data forms and forwarded to FNAI upon completion of the inventory. A copy of the Field Report Form for occurrences of special animals is attached as Exhibit E of this report. The plant Field Report Form can be found online at www.fnai.org/FNAI_data/fieldform_generic_hardcopy.pdf.. Restored areas at the Gordon River Greenway Park will be monitored as provided for in the approved Mitigation Area Monitoring, Maintenance and Reporting Plan (Appendix C)

Archeological, Cultural, and Historical Resource Protection

In July, 2005, the Archaeological and Historical Conservancy Inc. conducted a phase 1 archaeological assessment of the Freedom Park site to locate sites of archaeological and/or historical significance (Appendix D). Based on regional archaeological site models, it was determined that the upland area adjacent to a wetlands area had a moderate potential for archaeological sites being associated with it. Thirty-five shovel tests were dug across the parcel which resulted in the discovery of one archaeological site, the Lucky Lane Site, 8CR925. A Phase II Archeological Assessment of the Lucky Lane site was done in January 2007 by the Archeological and Historical Conservancy, Inc. resulting in the conclusion that the site is a formative period shell scatter, and is of local significance. Based on available data, the site is not regarded as potentially eligible for listing on the National Register of Historic Places (Appendix E).

Phase 1 and, subsequently, Phase II archaeological assessments were conducted by the Archeological and Historical Conservancy, Inc. on the Gordon River Greenway Park and Conservation Collier sites in August and December, 2007 respectively (Appendices F and G). The Gordon River Greenway Park and Conservation Collier sites were permitted together to achieve economies of scale, and the survey was done prior to the 2011 land exchange. The Phase I assessment resulted in identifying two previously unrecorded sites, 8CR978 and 8CR1063.

The first site (8CR978), located on Conservation Collier lands, was determined to be a spoil pile likely resulting from clearing activity on the adjacent Naples Airport during the early years of World War II (circa 1942). This site does not qualify for listing on the National Register of Historic Places.

The second site (8CR1063), was located on lands subsequently exchanged with the Naples Zoo in 2011, and no longer subject to this management plan. For reference: The site contained historic refuse dating from the 1920s through the 1940s and was thought to result from off-road dumping or to have been associated with the Henry Nehrling (1853-

~~164. 1929) occupation of the site between 1917 and 1929. Henry Nehrling was an ornithologist and horticulturalist who maintained research gardens on the adjoining Naples Zoo site. Phase II testing was recommended to determine its significance. The Phase II Archeological assessment determined that the site was a redeposit of historic refuse and of minimal significance. This site was determined not to qualify for listing on the National Register of Historic Places.~~

~~165.~~

~~166. Lands received into the Gordon River Greenway Park in the 2011 land exchange totaling~~

~~167. 2.9 acres (Exhibit A – GRG Lands Received FROM Zoo – purple crosshatch), were surveyed for archeological and historical resources in May 2012. The resulting Phase I Cultural Resource Assessment identified one unrecorded historical site, a vacant structure built in 1956-57, of unknown individual historic significance, called the Triangle House (8CR1263), and one redeposited prehistoric site containing 2 small pottery sherds and four faunal bones. Several plants likely associated with the historic use of the parcel, were identified and recommended to be documented and relocated. The report stated that the Triangle House may be eligible for listing in the National Register of Historic Places as a contributing structure to a potential resource group associated with the Caribbean Gardens era (1954-1977). The recommendation was that prior to any proposed relocation or demolition of the structure, additional documentation (i.e. interior documentation and further informant interviews) should be completed. In regard to the redeposit site, the report recommended that proposed ground disturbances be monitored by an archeologist when they occur (Appendix H). Collier County will review the results of this survey with the Collier County Historical Archeological Preservation Board to determine appropriate preservation actions.~~

~~168.~~

~~169. Coordination will occur immediately with the Division of Historical Resources on the protection and management of any archeological and historical resources that are discovered on the project site.~~

~~170.~~

~~171. The collection of artifacts or the disturbance of archaeological and historic sites on either site will be prohibited unless prior authorization has been obtained from the Department of State, Division of Historical Resources.~~

~~172.~~

~~173. The management of the archaeological and historical resources on both sites will comply with the provisions of Chapter 267, Florida Statutes specifically Sections 267.2(a) and (b).~~

~~174.~~

~~175.~~

~~176. SITE DEVELOPMENT AND IMPROVEMENT~~

~~177.~~

~~178. Acknowledgment Sign~~

~~179. Each site will feature an acknowledgement sign at its entrance identifying it as being purchased with funds from Florida Communities Trust using Florida Forever Funds and identify the recipient. The signs shall be at least 3' x 4' in size and include the FCT and Florida Department of Environmental Protection (DEP) logos and the year the sites were acquired.~~

~~180. Existing Physical Improvements~~

~~181. Freedom Park included minimal existing physical improvements prior to its development as Freedom Park. A dirt trail meandered along the north side of the property adjacent to a shallow stormwater ditch which was regularly maintained for drainage purposes. To the south, an abandoned paved road ran east to west along the south side of the property along the historical alignment of Golden Gate Parkway. Also, three abandoned irrigation wells were found in the central and western portions of the site. These wells were assumed to be remnants of historic citrus production and were abandoned in place to prevent direct conduits between the surface and the surficial aquifer.~~

~~182. Public amenities at Freedom Park include an 2,500 square-foot education center, boardwalk and trail system to provide a setting for passive recreation opportunities such as environmental studies, bird watching, hiking, nature photography and environmental education. Construction began in 2007 and Freedom Park was completed and officially opened to the public in October 2009. The project received the Team Project of the Year Award for 2009 from the Florida Association of County Engineers and Road Superintendents, which was awarded in July 2010.~~

~~183.~~

~~184. Freedom Park now features Collier County's Freedom Memorial. The memorial is constructed of granite, with a structure approximately 13' tall at the highest point and 50' wide. The structure is placed within a pentagon shaped platform with a diameter of approximately 80' across. The memorial does not disturb any wetland areas and fits into the passive park theme. The Freedom Memorial will pay tribute to the members of our Armed Forces who have sacrificed their lives to preserve our freedom and to honor law enforcement officers, firefighters, emergency medical personnel and civilians who perished during the 9/11 terrorist attacks. The location of the memorial within the Water Quality Park is indicated on Exhibit G-1. The design of the memorial is included as Exhibit G-2.~~

~~185.~~

~~186. The Gordon River Greenway Park is minimally impacted by existing improvements.. A small home built in the 1950's for the zoo exists adjacent to the river where the kayak launch is planned. A Phase I historical and archeological site assessment is currently being performed and will provide recommendations regarding this structure. The Conservation Collier site has no existing improvements.~~

~~187.~~

~~188. Proposed Physical Improvements~~

~~189. Resource-based passive recreation facilities at Gordon River Greenway Park will include boardwalks, nature trails, and fishing and observation platforms. Trailhead areas will include parking, drinking fountains, rest rooms, benches, trash receptacles and bike racks. Visitor amenities feature a children's playground, canoe/kayak launch, fishing platform, pavilions and 2 pedestrian bridges. Pathways and boardwalks will have lighting for safety purposes. Lighting will include consideration for on/offsite lumens and wildlife. Elevated boardwalks through wetland areas will be 10 feet wide. Asphalt pathways will be 12 feet wide and include numerous bump-out areas and benches to serve as rest stops for walkers and bikers. Pavilions and lookout points will be located to minimize impact~~

~~190. on habitat and gopher tortoise burrows but maximize opportunities for wildlife viewing. Prior to initial clearing for pathways and boardwalks, staff will inspect the land and vegetation to coordinate protection of plant and animal species. The total length of the trail network on the Gordon River Greenway Park, including Conservation Collier portions, will be approximately 2 miles.~~

~~191.~~

~~192. Several adjacent parcels feature user-oriented recreation facilities such as ball fields, racquetball courts and a skateboard complex. For this reason, no user-oriented recreation facilities, other than a children's play area and kayak launch are proposed for Gordon River Greenway Park.~~

~~193.~~

~~194. Both Freedom Park and Gordon River Greenway Park are accessible via existing sidewalks. Once developed, the sites will become part of the Gordon River Greenway pathway network.~~

~~195.~~

~~196. Site Development Plans for each park have been forwarded to FCT and have received approval. Further, FCT review and approval will be sought prior to any proposed modification of the Management Plan and/or the undertaking any site alterations or physical improvements not addressed in this Management Plan.~~

~~197.~~

~~198. Utility lines will be buried wherever feasible.~~

~~199.~~

~~200. Landscaping~~

~~201. Freedom Park features a 2,500-square-foot educational building. Outside of it, a terraced and landscaped area leads walkers to the network of trails winding around the park. Selected indigenous plant species of interest fill the terraces, providing habitat, visual interest, and public educational opportunities as representative ecosystems of south Florida.~~

~~202. On both sites, landscaping in the traditional sense will be limited to those areas surrounding the park entrances and support facility areas such as parking lots and rest rooms. Total area to be landscaped among both parks is approximately 10 to 12 acres. Native species such as live oak, green buttonwood, gumbo-limbo, pidgeon plum, sabal palm, and seagrape are being used. To the extent permitted by the Land Development Code, landscape design will favor a natural appearance. Shade trees will be planted in the parking and playground areas.~~

~~203.~~

~~204. Landscaping activities will be incorporated within the larger development schedules for the projects (see Priority Schedules, Section VIII). The areas to be landscaped are limited to parking areas and entry roads indicated on the Master Site Plans (Exhibit G-1 and G- 4).~~

~~205.~~

~~206. Wetland Buffer~~

~~207. A 100-foot buffer will be provided between parking lots, major facilities, and wetlands and as specified on approved plans sets. .~~

~~208. Parking~~

~~209. The one parking lot at the Freedom Park is centrally located on the south side of the park and contains approximately 46 spaces with 2 handicap spaces. Additional space has been designated to accommodate school buses. After entering the park, buses or cars can drive in and around an oval drive to the educational building where individuals can be dropped off in a pedestrian-friendly zone. Within the drive's infield, there is a small treatment swale or shallow marsh wetland to treat stormwater runoff from the parking facility prior to discharge.~~

~~210. The Gordon River Greenway Park will offer two parking areas:~~

~~211. A 52-space (includes 2 handicapped spaces) parking area is located at the northeast side of the Gordon River Greenway Park along Golden Gate Parkway. This parking area will have 44 stabilized grass parking spaces. Runoff will be managed through a box culvert storm sewer into to a dry detention area for ground infiltration. All proposed storm water facilities will be designed to current and applicable codes. This parking area is adjacent to a boardwalk and trail system trailhead.~~

~~212. A _48-space (includes 4 handicapped spaces) parking area will be provided adjacent to the kayak launch. This parking area will have 10 stabilized grass parking spaces. Runoff will be managed by box culverts leading to two dry detention areas for ground infiltration. All proposed storm water facilities will be designed to current and applicable codes. This parking area is adjacent to a children's' playground, rest rooms, pavilion and a boardwalk and trail system trailhead.~~

~~213. Additional shared parking with the Naples Zoo will be available on the west side of the Gordon River Greenway Park adjacent to Goodlette-Frank Road. This parking area is not included in lands covered by this Land Management Plan and is not described herein.~~

~~214.~~

~~215. A combination of curb and gutter, wheel stops, and raised islands with landscaped beds will be utilized in all parking lot facilities to keep vehicles confined to designated parking areas.~~

~~216.~~

~~217. Stormwater Facilities~~

~~218. A description of the proposed stormwater facilities at Freedom Park is addressed in the Wetland Restoration portion of the Restoration section, above. These stormwater facilities were designed to provide recreational wildlife habitat in a park-like setting. Where present, they are designed with shallow slopes and without fences.~~

~~219.~~

~~220.~~

~~221.~~

~~222. Hazard Mitigation~~

~~223. The 100-year flood plain covers approximately 80% of the Freedom Park and the entire Gordon River Greenway Park (Exhibit I). To protect structures built within this zone, the design has placed these structures on elevated building pads on appropriate foundations~~

~~224. (e.g., stilts or piers). Other site improvements that are not endangered by flood waters (parking lots, boardwalks, and trails) will be designed where the appropriate at-grade elevations allow..~~

~~225.~~

~~226. Educational Signs~~

~~227. A permanent recognition sign, a minimum size of 3' x 4', shall be maintained at the main entrance for both park areas. These signs shall acknowledge that the project site was purchased with funds from the Florida Communities Trust. Additionally, interpretive signage shall be located throughout the boardwalk and trail areas. Content for signage at Freedom Park includes information about the value and function of wetlands, wetland plants and their medicinal uses, information about local and exotic species and a history of the site. Content for signage at the Gordon River Greenway Park/Conservation Collier site will include information about gopher tortoises and their role as a keystone and indicator species, the importance of preserving wetlands, birds in wetlands, both common and protected local wildlife, information regarding Dr. Henry Nehrling, a pioneering botanist whose 1920s garden was adjacent to the Gordon River Greenway Park site, information about early pioneer families and identification of pertinent habitats and species. Additional signage may be placed, including, but not limited to regulatory, code and/or directional signage.~~

~~228.~~

~~229. Education Program~~

~~230. At least 12 regularly scheduled environmental educational programs are currently being conducted annually at Freedom Park. These programs will include and may be conducted at Gordon River Greenway Park when it is open to the public.~~

~~231. The on-site education building at Freedom Park is currently hosting educational programs about the water quality function of Freedom Park as well as protection of the habitat and species at the park. Educational programs are targeted at youth, primarily students from local elementary, middle and high schools. Programs are taught by resource professionals from partnership organizations such as the Big Cypress Basin/South Florida Water Management District, the Conservancy of Southwest Florida, Collier County Environmental Services Department, Parks and Recreation Department, Stormwater Department and Conservation Collier.~~

~~232.~~

~~233. Collier County Parks and Recreation Park Ranger and Naturalist staff will present natural history programs at the Gordon River Greenway Park. Staff presenting the programs has completed the National Association of Interpretation Certified Interpretive Guide Course. All educational programs will be developed by the Senior Park Naturalist/Program Supervisor. Programs will include: A Closer Look at the Gopher Tortoise, The Importance of Preserving Wetlands, Wetland Plants and their Medicinal Uses, Birding in the Wetlands, Dr. Nehrling and Exotic Species. Programs are advertised in the Collier County Parks and Recreation Program Guide and the Park Ranger To Go Menu of Programs that is distributed to Collier County Public Schools each August. The target audience includes: general public, professionals, tourists, and elementary and secondary school children~~

~~234. Museum and Nature Center~~

~~235. Freedom Park features a 2,500-square-foot educational building, designed to be the focal point for the public who visit the site. The facility has a 1,350-square-foot conference room where the public can learn more about the surrounding wetlands, treatment facility operations, and the wildlife attracted to the site. The facility houses a reception area, an office, and standard mechanical and electrical rooms. Restroom facilities are located near the main entrance to the park with access on the outside of the building so they are available to the public when the facility is closed.~~

~~236.~~

~~237. Permits~~

~~238. Each project will require a South Florida Water Management District Environmental Resource Permit, Army Corps of Engineers Nationwide permit and Florida Fish and Wildlife Conservation Commission (FWC) gopher tortoise relocation permit. The Freedom Park is located within the City of Naples, and so required a City of Naples Zoning and Land Development building permit and City of Naples Fire Department fire compliance and utility permits. The Gordon River Greenway Park is located within Collier County, and will additionally require Collier County Zoning and Land Development building permit and a City of Naples Utility permit. Pedestrian bridges onsite required US Coast Guard permits. Due to its location next to the Naples Airport, the southernmost of the pedestrian bridges required approval from the Naples Airport Authority and the Federal Aviation Administration.~~

~~239.~~

~~240. Easements, Concessions, and Leases~~

~~241. Freedom Park:~~

~~242. Conservation Easement, executed in 2008, in favor of the South Florida Water Management District over the eastern 12.5 acres of the Freedom Park.(Exhibit K),~~

~~243. Three existing recorded utility easements (Exhibit M-1) Gordon River Greenway Park~~

~~244. A Conservation Easement, dedicated in favor of the South Florida Water Management District, subject to FCT Grant conditions and incorporating this land management plan, with 3rd party rights of enforcement granted to the Army Corps of Engineers, is in the finalization stages.(Exhibit L – Placeholder Draft)~~

~~245. Two Existing recorded utility easements, (Exhibit M-1)~~

~~246. Additional easements for electric, water, wastewater, phone and cable are currently being described at the Kayak launch and north parking nodes. All utility easements to be placed will include FCT-required language as shown in sample utility and FPL easement documents (Exhibit M-2). A full listing of these easements will be provided to FCT when finalized, approved by the Collier County Board of County Commissioners and recorded.~~

~~247. Should any lease or any interest, the operation of any concession, any sale or option, the granting of any management contracts, or any use by any person other than in such person's capacity as a member of the general public arise or be proposed, FCT will be provided with 60-day prior written notice. No document will be executed without the prior written approval of FCT. All fees collected will be placed in a segregated account solely for the upkeep and maintenance of the project sites.~~

~~248. MANAGEMENT NEEDS~~

~~249.~~

~~250. Coordinated Management~~

~~251. Freedom Park is located across Goodlette-Frank Road from Naples High School. Little coordinated management is necessary with Collier County Public Schools for these sites, but where the park can be an educational resource for the school such partnership will be pursued.~~

~~252. Gordon River Greenway Park is located across Goodlette-Frank Road from Fleischmann Community Park. Again the sites are complimentary and little coordinated management is necessary with the City of Naples. Where Gordon River Greenway Park can be a resource for the community such partnership will be pursued. The Gordon River Greenway Park is also located adjacent to the Naples Zoo, the Conservancy of Southwest Florida, and the Naples Airport Authority. Management will be coordinated with these entities in the following ways:~~

~~253.~~

~~254. Exotic removal and monitoring programs will be coordinated where possible to take advantage of economies of scale.~~

~~255.~~

~~256. Information obtained from monitoring habitat quality and listed species will be shared with the above-listed and other Gordon River Greenway partners, and management for preservation will be coordinated appropriately.~~

~~257.~~

~~258. Parks hours, access, and patrol will be coordinated among the above-listed and other Gordon River Greenway partners to avoid conflict and duplication, and to present seamless management to the public.~~

~~259. The locations of park sites and adjacent publicly owned and/or conservation lands are illustrated in Exhibit B.~~

~~260. Comments on this Revised Land Management Plan will be solicited from Naples Zoo, Conservancy of Southwest Florida, and Naples Airport Authority and incorporated into the 2011 Annual Stewardship Report.~~

~~261.~~

~~262. Trail Network and Greenway~~

~~263. Both park sites are accessible via existing sidewalks along the arterial roadways (Goodlette-Frank Road and Golden Gate Parkway), with the Conservation Collier site also accessible from North Road, a public road running along the south and west sides of the Naples Airport connecting the site with the Airport-Pulling Road, a major arterial road to the east of the Greenway system. Full crosswalks are available at the intersection of Golden Gate Parkway, Goodlette-Frank Road and Airport Road at North Road.~~

~~264. The projects together form the northernmost section of the Gordon River Greenway. The Gordon River Greenway will create a 2-mile ecological and trail corridor centrally located within the Naples-Collier urban area, with future plans to connect off-road~~

~~265. pathways and preserved land from the Freedom Park to US 41 South along the Gordon River in downtown Naples. Partners in the Greenway project include the City of Naples, Naples Airport Authority, Southwest Florida Land Preservation Trust, Conservancy of Southwest Florida, and South Florida Water Management District. A portion of the Greenway on Airport Authority property is already complete.~~

~~266.~~

~~267. Combined, the two sites will provide three (3) vehicular access points with parking and rest rooms, serving as important trailhead facilities for the Greenway. Only two of those vehicular access points are covered by this plan; one at Freedom and two at Gordon River Greenway Park.~~

~~268.~~

~~269. The Gordon River Greenway is identified in the Collier County Comprehensive Pathways Plan, adopted by the Metropolitan Planning Organization on January 12, 2006. An updated conceptual map of the Gordon River Greenway Park showing the trail network is included as Exhibit H.~~

~~270.~~

~~271. Coordinated Management – Neighborhoods and Private Lands~~

~~272. Both Freedom and Gordon River Gordon River Greenway Parks are surrounded by commercial and residential properties, with the Gordon River Greenway Park also bordered by the Naples Airport. This presents the need to coordinate management of the site with adjacent neighborhoods and development. Coordination has initially been accomplished through stakeholder and public meetings held during the planning process and by incorporating comments received into project plans. For example, one neighborhood adjoining the Gordon River Greenway Park next to the Northeast node parking area expressed concern about the visitors wandering into its adjoining golf course. As a result, a wall was added to shield the parking area from the adjoining property. Another neighborhood east of the Gordon River Greenway Park expressed concern about the trail being located too close to homes. As a result, the trail was moved more to the west. The Naples Airport Authority expressed concern about lighting on a bridge just adjacent to a runway. As a result, a type of lighting was chosen for the bridge that will only shine downward, at foot level.~~

~~273. The presence of residential and commercial development surrounding the Park will also affect management options available. While prescribed fire may benefit some of the habitat on the Park, it is not planned to be utilized since smoke could cause significant difficulties for Airport operations and surrounding residential areas. Surrounding areas are fully developed, except for one parcel adjoining the Park on the south side, so any constraints on management are already present and will not change. The one vacant parcel is proposed for public acquisition at this time and has a willing seller. There is a strong potential for it to be added to Park lands in the future. If not, its development as a residential property will not alter the character of adjoining lands to any appreciable extent. A map of surrounding Future Land Uses is attached as Exhibit J.~~

~~274.~~

~~275. Maintenance~~

~~276. Collier County Parks and Recreation Department personnel are responsible for the day- to-day maintenance activities such as clean-up, waste removal, and general landscape~~

~~277. maintenance for most of Freedom and will also be responsible for most of Gordon River Greenway Park. Conservation Collier staff will be responsible for maintenance on the Conservation Collier portions. A maintenance company contracted with Collier County is responsible for the day-to-day maintenance activities such as cleaning rest rooms, offices, and public buildings. Collier County Facilities Management will be responsible for minor repairs and general building maintenance on the project site.~~

~~278.~~

~~279. Security~~

~~280. Collier County Parks and Recreation personnel have the primary responsibility for the security of the entire project site. Park Rangers will provide routine but irregularly timed patrol of the sites. Patrol is conducted in accordance with the Parks and Recreation Department Security and Protection Plan, with assistance from the Collier County Sheriff's Office and City of Naples Police Department as appropriate and when deemed necessary.~~

~~281. All County sites will be outfitted with security systems as necessary. Design will incorporate signage and other features such as driveway gates will establish boundaries. Park hours and rules will be posted and enforced.~~

~~282.~~

~~283. Staffing~~

~~284. When both parks are fully open to the public the following minimum staffing will be required:~~

~~285. At Freedom Park: 1 FTE is assigned to the Learning Center and 1 FTE is assigned for Maintenance Staff~~

~~286. At Gordon River Greenway Park: 1 PTE will be assigned as Maintenance Staff~~

~~287. Park Rangers will not be assigned full time to either Park but will periodically patrol public use areas.~~

~~288.~~

~~289. Conservation Collier will have a Land Manager who will periodically be onsite.~~

~~290.~~

~~291. Goals, Objectives and Measures Goals:~~

~~292. Alleviate local residential flooding and improve water quality~~

~~293. Provide passive recreation opportunities~~

~~294. Protect natural resources~~

~~295. Remove or control populations of invasive, exotic or problematic flora and fauna~~

~~296. Restore and maintain native habitats~~

~~297. Provide education opportunities~~

~~298. Provide non-vehicular transportation choices~~

~~299.~~

~~300. Objectives and Measures:~~

~~301. Objective: Improve Water quality in the Gordon River watershed; Measures: Provide storm water attenuation and cleansing before release into the Gordon~~

~~302. River. Monitor water quality and report to the South Florida Water Management District.~~

~~303. Objective: Provided for hiking, biking, rollerblading, etc. opportunities; Measures: Usage of the Parks.~~

~~304. Objective: Protect Natural Resources; Measures: Annual Stewardship and Monitoring reports showing habitat improvement.~~

~~305. Objective: Restore natural plant communities; Measures: Annual Stewardship and Monitoring reports showing habitat improvement.~~

~~306. Objective: Teach residents and visitors about the unique cultural and natural resources and history of the area; Measures: Evaluate participation in offered programs.~~

~~307. Objective: Provide alternate transportation options to reduce greenhouse gasses; Measures: Usage of the Parks~~

~~308.~~

~~309. Cost Estimates and Funding Sources~~

~~310. The following development costs are estimated for Freedom Park:~~

~~311.~~

~~312. Preconstruction Activities~~	~~313.~~
~~314. Rezoning~~	~~315. 50,000~~
~~316. Site Development Plan~~	~~317. 820,000~~
~~318. Permitting (including ASR)~~	~~319. 60,000~~
~~320. Impact Fees~~	~~321. 220,000~~
~~322. TOTAL~~	~~323. 1,150,000~~
~~324.~~	~~325.~~
~~326. Construction~~	~~327.~~
~~328. Utilities~~	~~329. 250,000~~
~~330. Burying Electric Lines~~	~~331. 150,0~~

	00
332. Site Work	333. 900,000
334. Building	335. 2,500,000
336. Parking	337. 450,000
338. Ponds	339. 1,500,000
340. Boardwalks	341. 950,000
342. Docks	343. 150,000
344. Observation Areas	345. 100,000
346. ASR Facility	347. 500,000
348. Landscaping	349. 950,000
350. Signage	351. 50,000
352. Rest Rooms	353. 50,000
354. TOTAL	355. 8,500,

	~~000~~

~~356.~~

~~357.~~

~~358. The funding source for preconstruction activities and Phase I construction of Freedom Park is the Transportation Services Division, Stormwater Management Department budget. The South Florida Water Management District funded $750,000 for design and construction. Additional grant funding will be sought to supplement County monies.~~

~~359. The following development costs are estimated for Gordon River Greenway Park:~~

~~360.~~

~~361. Gordon River Greenway Park~~	~~362.~~
~~363. Preconstruction Activities~~	~~364.~~
~~365. Exotic Removal~~	~~366. 300,000~~
~~367. Archaeological Assessment~~	~~368. 5,000~~
~~369. Rezoning~~	~~370. 0,000~~
~~371. Design~~	~~372. 00,000~~
~~373. Permitting~~	~~374. 5,000~~
~~375. Impact Fees~~	~~376. 00,000~~
~~377. TOTAL~~	~~378. 1,430,000~~
~~379.~~	~~380.~~
~~381. Construction~~	~~382.~~
~~383. Utilities~~	~~384. 75,000~~
~~385. Site Work~~	~~386. 22,000~~
~~387.~~	~~388.~~
~~389. Pathways~~	~~390. 35,000~~
~~391. Boardwalks~~	~~392. ,621,000~~
~~393. Bridges~~	~~394. 60,000~~

395. Pavilions and shade structures	396. 00,000
397. Rest Rooms	398. 50,000
399. Maintenance Facility	400. 5,000
401.	402.
403. Canoe/Kayak Launch	404. 35,000
405. Parking Facilities	406. 00,000
407. Access Drives	408. 00,000
409. Landscaping	410. 50,000
411. Signage	412. 0,000
413. Site Furnishings	414. 75,000
415. TOTAL	416. 6,718,000

417.

418.

419. Funding sources for Gordon River Greenway Park include FCT reimbursement, the rent paid by the Naples Zoo on the adjacent property, and a contribution from the Big Cypress Basin. Parks impact fees will supplement these funding sources if necessary. The Conservation Collier portion of the project was acquired, will be constructed and managed using separate funding from an ad valorem tax levy approved by Collier County voters in 2002 and again in 2006. Funds have been set aside from this levy for perpetual maintenance of lands acquired under the Conservation Collier Program. An estimated budget for maintenance for the Conservation Collier section is included Table 10 of the Gordon River Greenway Preserve Land Management Plan, Appendix A, page 52.

~~420. The following operating costs are provided for Freedom Park, and estimated for Gordon River Greenway Park. The Conservation Collier proposed operating budget can be found in the Gordon River Greenway Preserve Land Management Plan, Appendix A, page 51.~~

~~421.~~

~~422.~~

~~423. Freedom Park Annual Operating Budget~~	~~424.~~
~~425. Maintenance Operating~~ ~~435. Sprinkler System~~ ~~436. Landscaping (sod, trees)~~ ~~437. Pine-straw Mulch x 2 annually~~ ~~438. Landscape Materials (replacement native plants)~~ ~~439. Fertilizer, Herbicides, and Chemicals~~ ~~440. Household/Institutional Supplies~~ ~~441. Exotic Monitoring and Treatment~~ ~~442. Facility Maintenance & Repairs~~	~~426. 3500.00~~ ~~427. 15,000.00~~ ~~428. 15,000.00~~ ~~429.~~ ~~430. 5,000.00~~ ~~431. 4,000.00~~ ~~432. 500.00~~ ~~433. 20,000.00~~ ~~434. 10,00.00~~
~~443. Utilities~~ ~~445. Electricity~~ ~~447. Water and Sewer~~	~~444.~~ ~~446. 15,000.00~~ ~~448. 30,000.00~~
~~449. Education Programs~~ ~~451. Outside Instructor Cost~~ ~~453. Ethical Angler Fishing Camp Supplies~~ ~~454. Instructional Materials~~	~~450.~~ ~~452. 200.00~~ ~~455. 700.00~~ ~~456. 1,500.00~~
~~457. Interpretive and Directional Signage~~ ~~458. Upgrade, replacement of damaged signage~~	~~459. 1,500.00~~
~~460. Information Technology~~ ~~461. IT CLASS Support~~ ~~462. Telephone System Support (DSL & Long Distance)~~	~~463. 5,000.00~~ ~~464. 6,100.00~~
~~465. Personnel Costs~~ ~~467. 1 FTE (salary & benefits) Learning Center~~ ~~469. 1 FTE Maintenance Staff (salary & benefits)~~	~~466.~~ ~~468. 61,600.00~~ ~~470. 47,060.00~~

~~471. TOTAL~~	~~472. 2 41,660.00~~

~~473. Gordon River Greenway Park Estimated Annual Budget~~	~~474.~~
~~475. Maintenance Operating~~ ~~476. Sprinkler System~~ ~~477. Landscaping (sod parking lots)~~ ~~478. Fertilizer, Herbicides, and Chemicals~~ ~~479. Household/Institutional Supplies~~ ~~480. Exotic Monitoring and Treatment~~ ~~481. Facility Maintenance & Repairs (boardwalks, pathways)~~	~~482. 1,500.00~~ ~~483. 3,000.00~~ ~~484. 1,000.00~~ ~~485. 250.00~~ ~~486. 20,000.00~~ ~~487. 3,000.00~~
~~488. Utilities~~ ~~489. Electricity~~ ~~490. Water and Sewer~~	~~491. 5,000.00~~ ~~492. 10,000.00~~
~~493. Education Programs~~ ~~494. Outside Instructor Cost~~ ~~495. Instructional Materials~~	~~496. 200.00~~ ~~497. 750.00~~
~~498. Interpretive and Directional Signage~~ ~~499. Upgrade, replacement of damaged signage~~	~~500. 1,500.00~~
~~501. Personnel Costs~~ ~~502. 1 PTE Maintenance Staff (salary & benefits)~~	~~503. 23,530.00~~
~~504. TOTAL~~	~~505. 69,730.00~~

~~506. Funding source for ongoing operating expenses for Parks and Recreation Operations at Freedom and Gordon River Greenway Parks will be Collier County ad valorem taxes. The Funding source for ongoing operating expenses for the Conservation Collier section will be The Conservation Collier Acquisition Trust Fund (Fund 174).~~

~~507. Priority Schedule~~

~~508.~~

~~509. Priority Timeline~~										
~~510. Project Number: 05-027-FF5~~										
~~511. Project Name: Freedom Park~~										
~~512. Grant recipient: Collier County~~										
~~513. Instructions: Write in the month that each task will be completed.~~										
~~514.~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~525. Design~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~536. Permitting~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~547. Public meetings/comment~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~558. Interagency coordination/comment~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~569. Amend Future Land Use Designation~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~580. Amend Zoning Designation~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~
~~591.~~										
~~592. Structures and Improvements:~~										
~~593. Entrance sign with FCT recognition (required)~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~5~~	~~6~~	~~6~~	~~6~~	~~6~~
~~604. Parking~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~
~~615. Restrooms~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~
~~626. Trash cans~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~	~~6~~

637. Drinking fountains	6	6	6	6	6	6	6	6	6	6
648. Bike rack	6	6	6	6	6	6	6	6	6	6
659. Benches	6	6	6	6	6	6	6	6	6	6
670. Interpretive kiosk	6	6	6	6	6	6	6	6	6	6
681. Interpretive signs	6	6	6	6	6	6	6	6	6	6
692. Stormwater facilities	6	6	6	6	6	6	6	7	7	7
703. Utilities	7	7	7	7	7	7	7	7	7	7
714. Education Building	7	7	7	7	7	7	7	7	7	7
725. Stormwater Ponds	7	7	7	7	7	7	7	7	7	7
736. Boardwalks	7	7	7	7	7	7	7	7	7	7
747. ASR	7	7	7	7	7	7	7	7	7	7
758. Freedom Memorial	7	7	7	7	7	7	7	7	7	7
769.										
770. Resource-based facilities:	7	7	7	7	7	7	7	7	7	7
781. Observation pier	7	7	7	7	7	7	7	7	7	7
792. Observation deck	7	7	7	7	7	7	7	8	8	8
803. Nature trail	8	8	8	8	8	8	8	8	8	8

814. Wildlife observation platform	8	8	8	8	8	8	8	8	8	8
825.	8	8	8	8	8	8	8	8	8	8
836.										
837. Key Management Activities:	8	8	8	8	8	8	8	8	8	8
848. Archeological survey	8	8	8	8	8	8	8	8	8	8
859. Archeological protection measures	8	8	8	8	8	8	8	8	8	8
870. Landscaping	8	8	8	8	8	8	8	8	8	8
881. Upland restoration	8	8	8	8	8	8	8	8	8	8
892. Wetland restoration	8	8	8	8	8	8	8	9	9	9
903. Plant survey/monitoring	9	9	9	9	9	9	9	9	9	9
914. Wildlife survey/monitoring	9	9	9	9	9	9	9	9	9	9
925. Photo-monitoring	9	9	9	9	9	9	9	9	9	9
936. Exotic plant removal	9	9	9	9	9	9	9	9	9	9
947. Feral animal removal program	9	9	9	9	9	9	9	9	9	9
958. Educational programs	9	9	9	9	9	9	9	9	9	9
969. Water quality or hydrological improvements	9	9	9	9	9	9	9	9	9	9

980.											
981. Annual Stewardship Report (Required)	9	9	9	9	9	9	9	9	9	9	

992.

993.

994. Priority Timeline											
995. Project Number: 06-043-FF6											
996. Project Name: Gordon River Gordon River Greenway Park											
997. Grant recipient: Collier County											
998. Instructions: Write in the month that each task will be completed.											
999.	10	1	1	1	100	1005 0 1 2	1	1	1	1
1010. Design	10	1	1	1	101	1016 o m p l e t e	1	1	1	1
1021. Permitting	10	1	1	1	102	1027 p r il	1	1	1	1
1032. 1033. Public meetings/comment	10	1 1	1	1	103	1040.	1	1	1	1
1045. Interagency coordination/comment	10	1	1	1	105	1051.	1	1	1	1
1056. Amend Future Land Use Designation	10	1	1	1	106	1062 p r il	1	1	1	1
1067. Amend Zoning Designation	10	1	1	1	107	1073 e b	1	1	1	1
1078.											

1079. Structures and Improvements: *(add or delete improvements as needed)*										
1080. Utilities	10	1	1	1	108	1086 ept	1	1	1	1
1091. Site Work	10	1	1	1	109	1097 ept	1	1	1	1
1102. Rest Rooms	11	1	1	1	110	1108 ept	1	1	1	1
1113. Parking Facilities	11	1	1	1	111	1119 ept	1	1	1	1
1124. Access Drives	11	1	1	1	112	1130 ept	1	1	1	1
1135. FCT sign (required)	11	1	1	1	114	1141 ept	1	1	1	1
1146. Interpretive signs	11	1	1	1	115	1152 ept	1	1	1	1
1157. Site Signage	11	1	1	1	116	1163 ept	1	1	1	1
1168. Trash cans	11	1	1	1	117	1174 ept	1	1	1	1
1179. Bike racks	11	1	1	1	118	1185 ept	1	1	1	1
1190. Benches	11	1	1	1	119	1196 ept	1	1	1	1
1201.	12	1	1	1	120	1207.	1	1	1	1
1212.										
1213. Resource-based facilities:	12	1	1	1	121	1219.	1	1	1	1
1224. Canoe launch	12	1	1	1	122	1230 ept	1	1	1	1

1235. Picnicking pavilion	123	1	1	1	124	1241 ept	1	1	1	1
1246. Pathways, boardwalks, and bridges	124	1	1	1	125	1252 ept	1	1	1	1
1257. Dock	125	1	1	1	126	1263 ept	1	1	1	1
1268.	126	1	1	1	127	1274.	1	1	1	1
1279.										
1280. Key Management Activities:	128	1	1	1	128	1286.	1	1	1	1
1291. Archeological survey	129	1	1	1	129	1297.	1	1	1	1
1302.	130	1	1	1	130	1308.	1	1	1	1
1313. Landscaping	131	1	1	1	131	1319 ept	1	1	1	1
1324. Plant survey/monitoring	132	1	1	1	132	1330 ay	1	1	1	1
1335. Wildlife survey/monitoring	133	1	1	1	134	1341 ay	1	1	1	1
1346. Photo-monitoring	134	1	1	1	135	1352 ay	1	1	1	1
1357. Exotic plant removal	135	1	1	1	136	1363 une	1	1	1	1
1368. Feral animal removal program	1369. as necessary									
1370. Educational programs	1371. ongoing beginning April 2010									
1372.	137	1	1	1	137	1378.	1	1	1	1
1383.										
1384. Annual Stewardship Report (Required)	138	1	1	1	138	1390 an	1	1	1	1

1395.

1396.

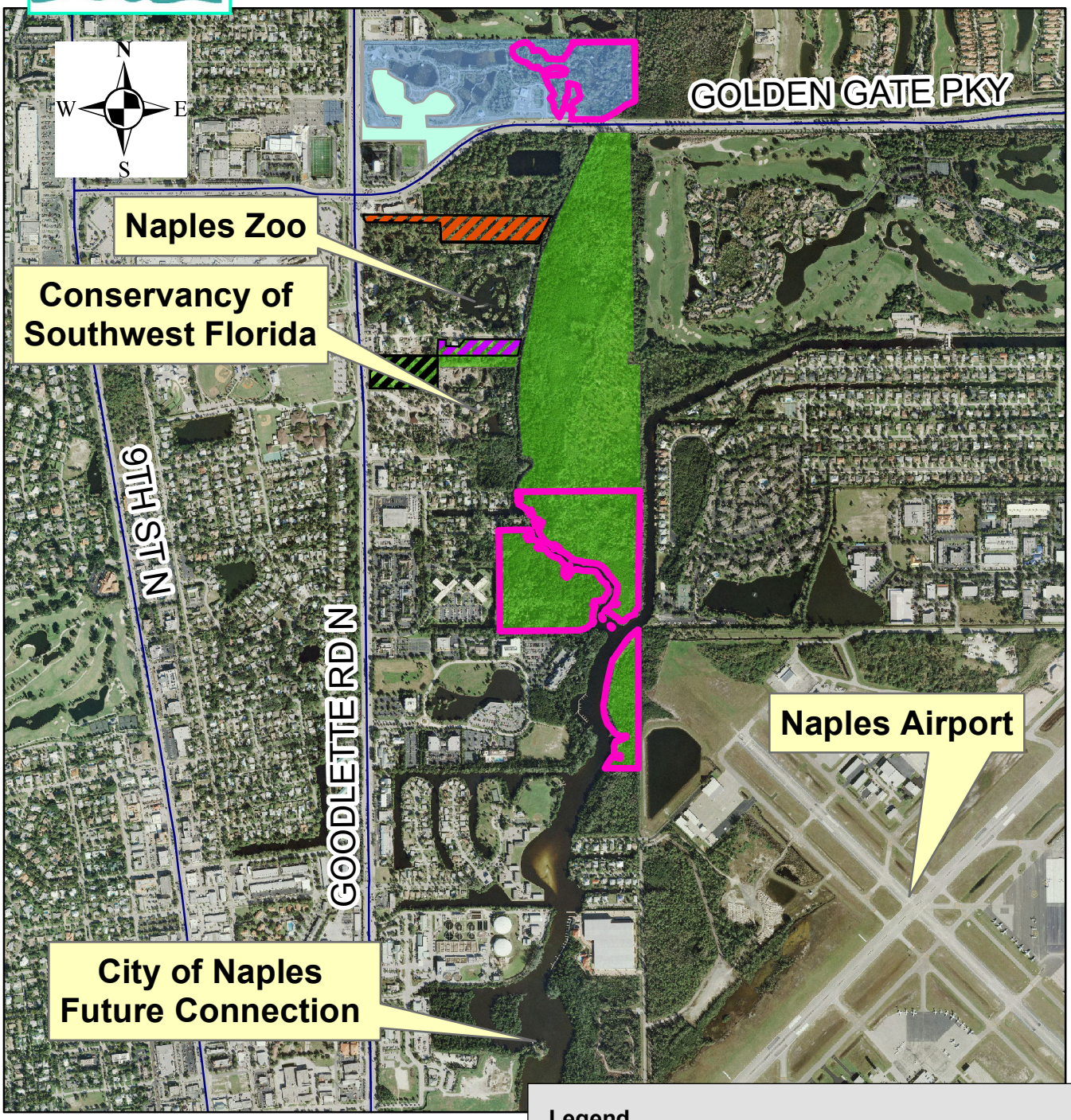
~~1397. Monitoring and Reporting~~

~~1398. Collier County staff will prepare an Annual Stewardship Report, due to FCT on January 30 of each year. The report will evaluate the implementation of the Management Plan.~~

~~1399.~~

~~1400.~~3. ~~Any proposed modification of the Management Plan and/or undertaking any project site alterations or physical improvements that are not addressed herein will require prior FCT review and approval.~~

Freedom Park, Gordon River Greenway Park, and Conservation Collier Gordon River Greenway Preserve



0 0.2 0.4 Miles

Legend

- **Freedom Park - 50 ac**
- FCT -Removed from Declaration - 10.4 ac
- **Gordon River Greenway Park - 75.6 ac**
- Conservation Collier Preserve Lands - 41.3 ac
- **GRG lands exchanged TO Zoo - 6.4 ac**
- GRG Lands Recieved FROM Zoo - 2.9 ac
- Parking Lot Removed from FCT Boundary - 4.7 ac

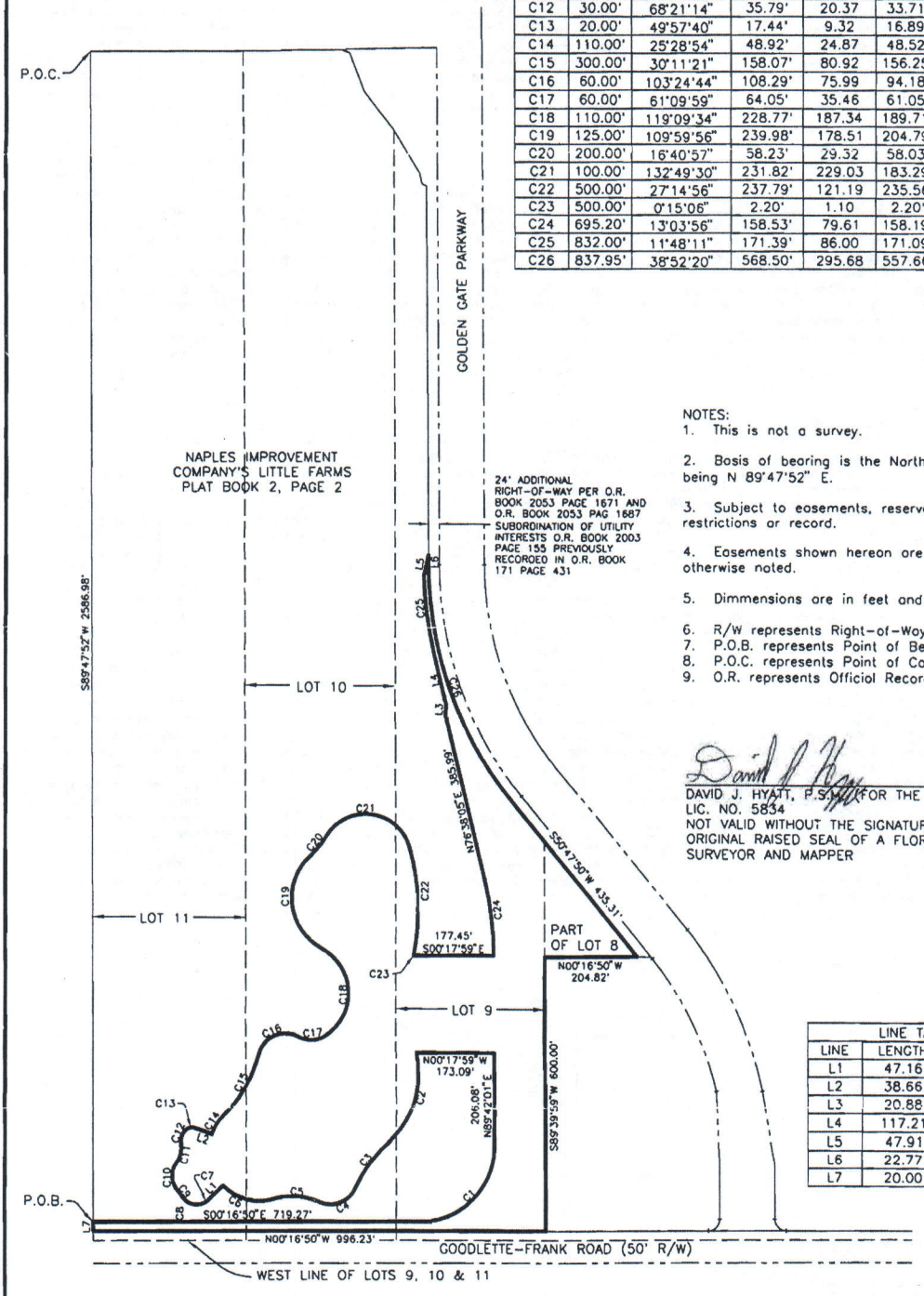
Data Source: Parcels and 2011 aerial - Collier County Property Appraiser
Created By: GIS / AS/ Conservation Collier
G:\Planning Services/land Development Services /Conservation Collier/Gordon River Greenway Project /Maps/.mxd.
Date: 3.15.12

Exhibit A-1

SCALE: 1" = 300'

0 75 150 300 600
GRAPHIC SCALE

CURVE TABLE						
CURVE	RADIUS	DELTA	LENGTH	TANGENT	CHORD	CHORD BRG.
C1	163.78'	90°01'08"	257.31'	163.83	231.65'	S45°17'24"E
C2	200.00'	61°02'48"	213.09'	117.92	203.16'	N73°13'41"W
C3	325.00'	22°55'47"	130.07'	65.91	129.20'	N54°10'11"W
C4	60.00'	88°59'19"	93.19'	58.95	84.10'	N21°08'25"W
C5	150.00'	39°41'49"	103.93'	54.15	101.86'	N03°30'20"E
C6	110.00'	62°15'34"	119.53'	66.43	113.74'	N14°47'12"E
C7	30.00'	31°07'23"	16.30'	8.35	16.10'	N28°31'20"W
C8	40.00'	72°08'19"	50.36'	29.14	47.10'	N23°06'31"E
C9	60.00'	11°23'52"	11.94'	5.99	11.92'	N53°28'45"E
C10	50.00'	77°03'22"	67.24'	39.81	62.29'	N86°18'30"E
C11	60.00'	43°52'18"	45.94'	24.16	44.83'	S77°05'58"E
C12	30.00'	68°21'14"	35.79'	20.37	33.71'	S64°51'30"E
C13	20.00'	49°57'40"	17.44'	9.32	16.89'	S05°42'03"E
C14	110.00'	25°28'54"	48.92'	24.87	48.52'	S57°58'47"E
C15	300.00'	30°11'21"	158.07'	80.92	156.25'	S60°20'01"E
C16	60.00'	103°24'44"	108.29'	75.99	94.18'	S23°43'19"E
C17	60.00'	61°09'59"	64.05'	35.46	61.05'	S02°35'56"E
C18	110.00'	119°09'34"	228.77'	187.34	189.71'	N87°14'17"E
C19	125.00'	109°59'56"	239.98'	178.51	204.79'	N82°39'28"E
C20	200.00'	16°40'57"	58.23'	29.32	58.03'	S50°41'02"E
C21	100.00'	132°49'30"	231.82'	229.03	183.29'	S07°23'15"W
C22	500.00'	27°14'56"	237.79'	121.19	235.56'	S87°25'28"W
C23	500.00'	0°15'06"	2.20'	1.10	2.20'	N79°04'37"W
C24	695.20'	13°03'56"	158.53'	79.61	158.19'	N83°10'03"E
C25	832.00'	11°48'11"	171.39'	86.00	171.09'	N82°32'00"E
C26	837.95'	38°52'20"	568.50'	295.68	557.66'	S70°14'00"W



NOTES:
1. This is not a survey.
2. Basis of bearing is the North line of Lot 11 being N 89°47'52" E.
3. Subject to easements, reservations and restrictions or record.
4. Easements shown hereon are per plat, unless otherwise noted.
5. Dimmensions are in feet and decimals thereof.
6. R/W represents Right-of-Way.
7. P.O.B. represents Point of Beginning.
8. P.O.C. represents Point of Commencement.
9. O.R. represents Official Records.

DAVID J. HYATT, P.S.M. (FOR THE FIRM) FLA. LIC. NO. 5834
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

LINE TABLE		
LINE	LENGTH	BEARING
L1	47.16	N44°05'01"W
L2	38.66	S19°16'46"W
L3	20.88	S86°40'02"E
L4	117.21	N76°38'05"E
L5	47.91	S78°07'48"E
L6	22.77	S89°40'10"W
L7	20.00	N89°47'52"E

FOR: Collier County Transportation Services Division

This is NOT a Survey.

SKETCH & DESCRIPTION OF
A PORTION OF
SECTION 27, TOWNSHIP 49 S., RANGE 25 E.,
COLLIER COUNTY, FLORIDA

Wilson Miller
Planners • Engineers • Ecologists • Surveyors • Landscape Architects • Transportation Consultants
WilsonMiller, Inc.
3200 Bailey lane, Suite 200 • Naples, Florida 34105-8027 • Phone 239-643-4040 • Fax 239-262-6484 • Web-site www.wilsonmiller.com

TASK CODE:	DRAWN BY:	CHKED BY:	CAD FILE:	PROJECT NO:	SHEET	DRAWING INDEX NO:	REV:
GCS00	TMO	DJH	1G-180	N8235-006-002	1 OF 2	1G-180	

Mar 02, 2006 - 10:30:36 TOSBORNE|X:\SUR\N8235\GORDEN RIVER QUALITY PARK\1G-180.dwg

LEGAL DESCRIPTION

A portion of lots 8, 9, 10 & 11 Naples Improvement Company's Little Farms according to the plat thereof as recorded in Plat Book 2, Page 2, Public Records of Collier County, Florida,

Commencing at the northeast corner of said lot 11; thence along the north line of said 11, South 89°47'52" West, a distance of 2586.98 feet to a point 20.00 feet east of Goodlette-Frank Road right-of-way line said point also being 40.00 feet east of the west line of said Lot 9 and the POINT OF BEGINNING; thence South 00°16'50" East, a distance of 719.27 feet to a point of curve to the left having a radius of 163.78 feet, a central angle of 90°01'08", and a chord bearing of South 45°17'24" East, a chord distance of 231.65 feet; thence southeasterly along the arc a distance of 257.31 feet; thence North 89°42'01" East, a distance of 206.08 feet; thence North 00°17'59" West, a distance of 173.09 feet to the point of curve of a non tangent curve to the right, of which the radius point lies North 13°45'06" West, a radial distance of 200.00 feet and having a chord bearing of North 73°13'41" West, a chord distance of 203.16 feet; thence westerly along the arc, through a central angle of 61°02'48", a distance of 213.09 feet to a point of reverse curvature to the left having a radius of 325.00 feet, a central angle of 22°55'47", and a chord bearing of North 54°10'11" West, a chord distance of 129.20 feet; thence northwesterly along the arc a distance of 130.07 feet to a point of reverse curvature to the right having a radius of 60.00 feet, a central angle of 88°59'19", and a chord bearing of North 21°08'25" West, a chord distance of 84.10 feet; thence northerly along the arc a distance of 93.19 feet to a point of reverse curvature to the left having a radius of 150.00 feet, a central angle of 39°41'49", and a chord bearing of North 03°30'20" East, a chord distance of 101.86 feet; thence northerly along the arc a distance of 103.93 feet to a point of reverse curvature to the right having a radius of 110.00 feet, a central angle of 62°15'34", and a chord bearing of North 14°47'12" East, a chord distance of 113.74 feet; thence northerly along the arc a distance of 119.53 feet; thence North 44°05'01" West, a distance of 47.16 feet to a point of curve to the right having a radius of 30.00 feet, a central angle of 31°07'23", and a chord bearing of North 28°31'20" West, a chord distance of 16.10 feet; thence northwesterly along the arc a distance of 16.30 feet to a point of compound curve to the right having a radius of 40.00 feet, a central angle of 72°08'19", and a chord bearing of North 23°06'31" East, a chord distance of 47.10 feet; thence northeasterly along the arc a distance of 50.36 feet to a point of reverse curvature to the left having a radius of 60.00 feet, a central angle of 11°23'52", and a chord bearing of North 53°28'45" East, a chord distance of 11.92 feet; thence northeasterly along the arc a distance of 11.94 feet to a point of reverse curvature to the right having a radius of 50.00 feet, a central angle of 77°03'22", and a chord bearing of North 86°18'30" East, a chord distance of 62.29 feet; thence easterly along the arc a distance of 67.24 feet to a point of reverse curvature to the left having a radius of 60.00 feet, a central angle of 43°52'18", and a chord bearing of South 77°05'58" East, a chord distance of 44.83 feet; thence easterly along the arc a distance of 45.94 feet to a point of reverse curvature to the right having a radius of 30.00 feet, a central angle of 68°21'14", and a chord bearing of South 64°51'30" East, a chord distance of 33.71 feet; thence southeasterly along the arc a distance of 35.79 feet to a point of compound curve to the right having a radius of 20.00 feet, a central angle of 49°57'40", and a chord bearing of South 05°42'03" East, a chord distance of 16.89 feet; thence southerly along the arc a distance of 17.44 feet; thence South 19°16'46" West, a distance of 38.66 feet to the point of curve of a non tangent curve to the right, of which the radius point lies South 19°16'46" West, a radial distance of 110.00 feet and having a chord bearing of South 57°58'47" East, a chord distance of 48.52 feet; thence southeasterly along the arc, through a central angle of 25°28'54", a distance of 48.92 feet to a point of reverse curvature to the left having a radius of 300.00 feet, a central angle of 30°11'21", and a chord bearing of South 60°20'01" East, a chord distance of 156.25 feet; thence southeasterly along the arc a distance of 158.07 feet to a point of reverse curvature to the right having a radius of 60.00 feet, a central angle of 103°24'44", and a chord bearing of South 23°43'19" East, a chord distance of 94.18 feet; thence southeasterly along the arc a distance of 108.29 feet to a point of reverse curvature to the left having a radius of 60.00 feet, a central angle of 61°09'59", and a chord bearing of South 02°35'56" East, a chord distance of 61.05 feet; thence southerly along the arc a distance of 64.05 feet to a point of compound curve to the left having a radius of 110.00 feet, a central angle of 119°09'34", and a chord bearing of North 87°14'17" East, a chord distance of 189.71 feet; thence easterly along the arc a distance of 228.77 feet to a point of reverse curvature to the right having a radius of 125.00 feet, a central angle of 109°59'56", and a chord bearing of North 82°39'28" East, a chord distance of 204.79 feet; thence easterly along the arc a distance of 239.98 feet to a point of reverse curvature to the left having a radius of 200.00 feet, a central angle of 16°40'57", and a chord bearing of South 50°41'02" East, a chord distance of 58.03 feet; thence southeasterly along the arc a distance of 58.23 feet to a point of reverse curvature to the right having a radius of 100.00 feet, a central angle of 132°49'30", and a chord bearing of South 07°23'15" West, a chord distance of 183.29 feet; thence southerly along the arc a distance of 231.82 feet to a point of compound curve to the right having a radius of 500.00 feet, a central angle of 27°14'56", and a chord bearing of South 87°25'28" West, a chord distance of 235.56 feet; thence westerly along the arc a distance of 237.79 feet to a point of reverse curvature to the left having a radius of 500.00 feet, a central angle of 00°15'06", and a chord bearing of North 79°04'37" West, a chord distance of 2.20 feet; thence westerly along the arc a distance of 2.20 feet; thence South 00°17'59" East, a distance of 177.45 feet to the point of curve of a non tangent curve to the left, of which the radius point lies North 00°17'59" West, a radial distance of 695.20 feet and having a chord bearing of North 83°10'03" East, a chord distance of 158.19 feet; thence easterly along the arc, through a central angle of 13°03'56", a distance of 158.53 feet; thence North 76°38'05" East, a distance of 385.99 feet; thence South 86°40'02" East, a distance of 20.88 feet; thence North 76°38'05" East, a distance of 117.21 feet to the point of curve of a non tangent curve to the right, of which the radius point lies South 13°22'05" East, a radial distance of 832.00 feet and having a chord bearing of North 82°32'00" East, a chord distance of 171.09 feet; thence easterly along the arc, through a central angle of 11°48'11", a distance of 171.39 feet; thence South 78°07'48" East, a distance of 47.91 feet to a point on the northerly right-of-way line of Golden Gate Parkway; thence along said right-of-way line South 89°40'10" West, a distance of 22.77 feet to a point of curve to the left having a radius of 837.95 feet, a central angle of 38°52'20", and a chord bearing of South 70°14'00" West, a chord distance of 557.66 feet; thence westerly along the northerly right-of-way line and the arc a distance of 568.50 feet; thence continue along said said northerly right-of-way South 50°47'50" West, a distance of 435.31 feet; thence leaving said north right-of-way North 00°16'50" West, a distance of 204.82 feet to a point on the south line of lot 9; thence along said line South 89°39'59" West, a distance of 600.00 feet to the east right-of-way line of said Goodlette-Frank Road said point lying 20.00 feet east of the west line of said lot 9; thence along said right-of-way line being 20 feet east of and parallel with the west line of said lots 9, 10 & 11, North 00°16'50" West, a distance of 996.23 feet to the north line of said lot 11; thence along said line North 89°47'52" East, a distance of 20.00 feet to the POINT OF BEGINNING.

Containing 453,212 square feet or 10.40 acres, more or less.

This is NOT a Survey.

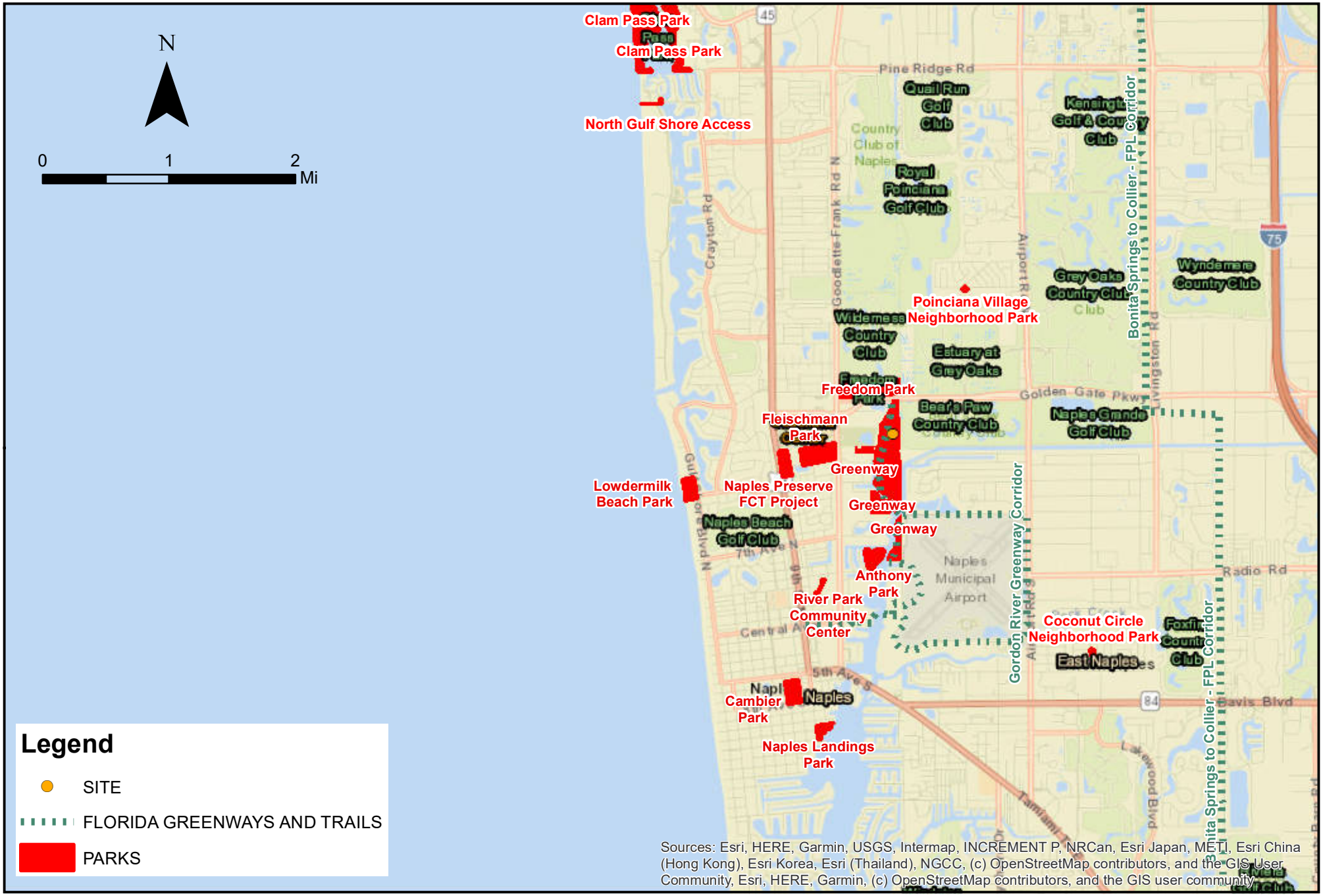
FOR: Collier County Transportation Services Division

SKETCH & DESCRIPTION OF
A PORTION OF
SECTION 27, TOWNSHIP 49 S., RANGE 25 E.,
COLLIER COUNTY, FLORIDA

WilsonMiller
Planners • Engineers • Ecologists • Surveyors • Landscape Architects • Transportation Consultants
WilsonMiller, Inc.
3200 Bailey Lane, Suite 200 • Naples, Florida 34105-8207 • Phone 239-649-4040 • Fax 239-263-8494 • Web-Site www.wilsonmiller.com

TASK CODE:	DRAWN BY:	CHKED BY:	CAD FILE:	PROJECT NO:	SHEET	DRAWING INDEX NO:	REV:
GCS00	TMO	DJH	1G-180	N8235-006-002	2 OF 2	1G-180	

Mar 08, 2006 - 08:15:09 TOSBORNE|X:\SUR\N8235\GORDEN RIVER QUALITY PARK\1G-180.dwg



Turrell, Hall & Associates, Inc.
Marine & Environmental Consulting
3484 Exchange Ave. Suite B. Naples, FL 34104-3732
Email: tuna@thanaples.com Phone: (239) 643-0166 Fax: (239) 643-6632

COLLIER COUNTY GORDON RIVER
GREENWAY SURROUNDING PUBLIC LANDS

DRAWN BY:	RMJ	REVISION:	SCALE: 1 "=1 mi
CREATED:	11-16-20	N/A	FILE PATH: P:\20043 Collier County Parks LMP\ 3 - Gordon River Greenway\GIS\ 20043.3-PARKS_MAP.mxd
JOB NO.:	20043.3	N/A	
SHEET:	04 OF 07	N/A	

SECTION-27,34 TOWNSHIP- 49S RANGE-25E

Exhibit C-1

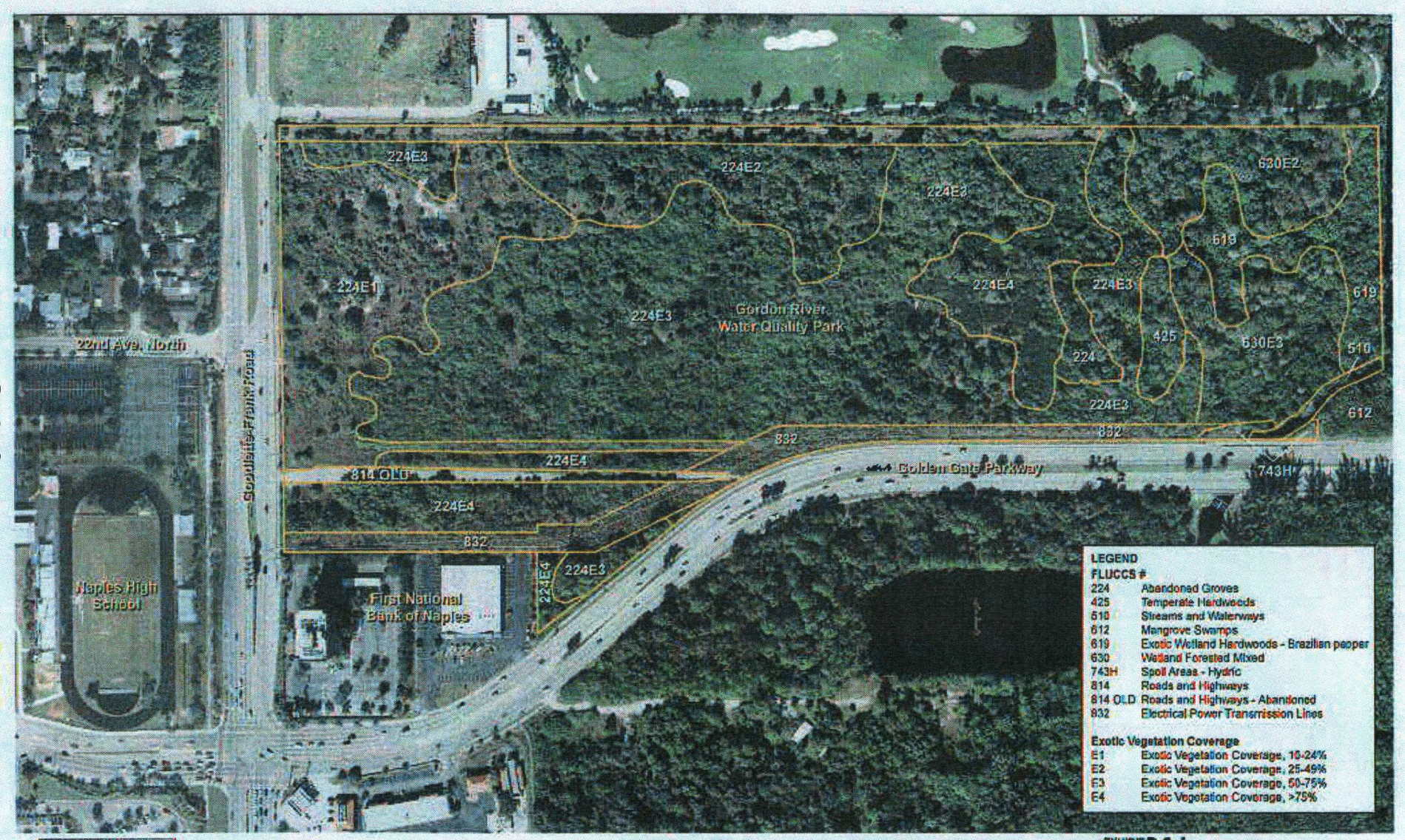
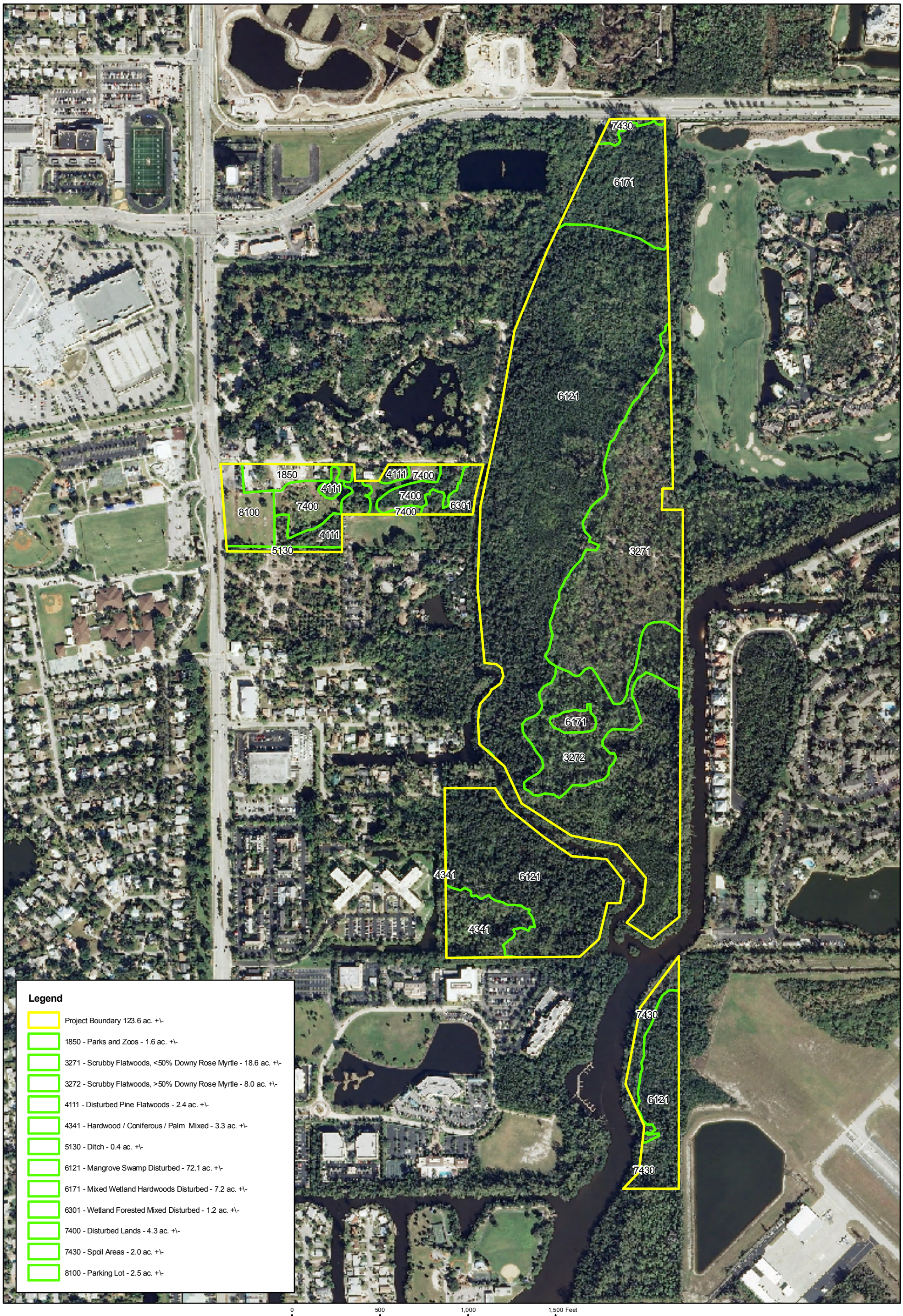


EXHIBIT C-1
Natural Communities
Gordon River Water Quality Park

CH2MHILL

Exhibit C-2



Legend

- Project Boundary 123.6 ac. +\-
- 1850 - Parks and Zoos - 1.6 ac. +\-
- 3271 - Scrubby Flatwoods, <50% Downy Rose Myrtle - 18.6 ac. +\-
- 3272 - Scrubby Flatwoods, >50% Downy Rose Myrtle - 8.0 ac. +\-
- 4111 - Disturbed Pine Flatwoods - 2.4 ac. +\-
- 4341 - Hardwood / Coniferous / Palm Mixed - 3.3 ac. +\-
- 5130 - Ditch - 0.4 ac. +\-
- 6121 - Mangrove Swamp Disturbed - 72.1 ac. +\-
- 6171 - Mixed Wetland Hardwoods Disturbed - 7.2 ac. +\-
- 6301 - Wetland Forested Mixed Disturbed - 1.2 ac. +\-
- 7400 - Disturbed Lands - 4.3 ac. +\-
- 7430 - Spoil Areas - 2.0 ac. +\-
- 8100 - Parking Lot - 2.5 ac. +\-

0 500 1,000 1,500 Feet

0 150 300 450 Meters

This map and all data contained within are supplied as is with no warranty. Cardno ENTRIX, Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.

Land Use Map

Gordon River Greenway Park
Collier County, FL

Image:2009

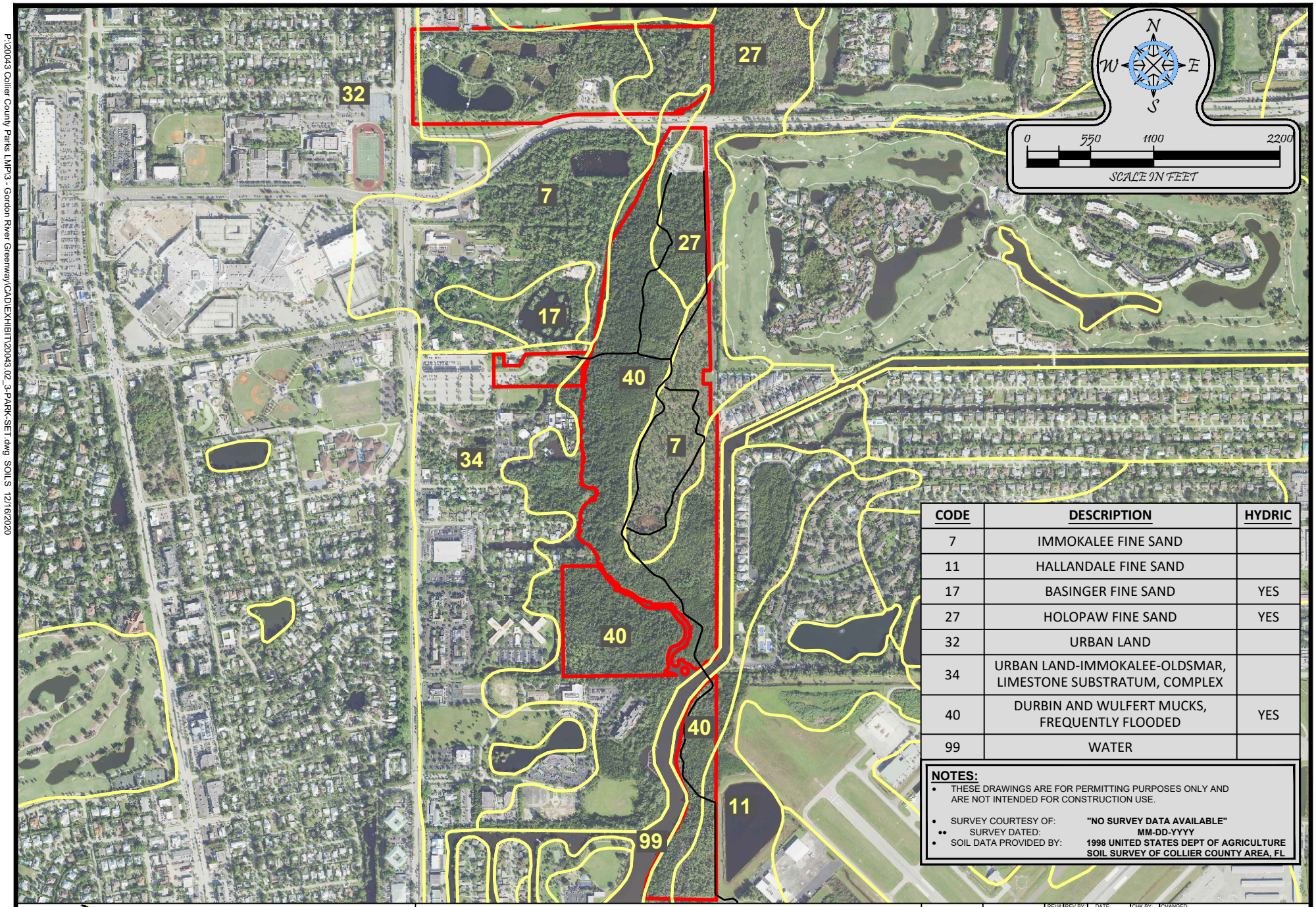
Sec 27, 34
Twp 49 S
Rng 25 E

Cardno ENTRIX
22 Sarasota Center Blvd.
Sarasota, FL 34240
ph. (941) 378-0660
fx (941) 378-0787
www.entrix.com

Coordinate System:
NAD 1983 UTM Zone 17N feet

Date: 02/10/2010 Rev. Date: xx/xx/xx PM: RKL GIS Analyst: JMB Map Document: 0437_177_landuse_B_1_20110210.mxd Project Number: 0437-177 PDF Document: 0437_177_landuse_B_1_20110210.pdf Plot Size: 11 x 17

P:\20043 Collier County Parks LMP\3 - Gordon River Greenway\CAD\EXHIBIT\20043.02_3-PARK-SET.dwg SOILS 12/16/2020



CODE	DESCRIPTION	HYDRIC
7	IMMOKALEE FINE SAND	
11	HALLANDALE FINE SAND	
17	BASINGER FINE SAND	YES
27	HOLOPAW FINE SAND	YES
32	URBAN LAND	
34	URBAN LAND-IMMOKALEE-OLDSMAR, LIMESTONE SUBSTRATUM, COMPLEX	
40	DURBIN AND WULFERT MUCKS, FREQUENTLY FLOODED	YES
99	WATER	

NOTES:

- THESE DRAWINGS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION USE.
- SURVEY COURTESY OF: **"NO SURVEY DATA AVAILABLE"**
- •• SURVEY DATED: **MM-DD-YYYY**
- SOIL DATA PROVIDED BY: **1998 UNITED STATES DEPT OF AGRICULTURE SOIL SURVEY OF COLLIER COUNTY AREA, FL**

Turrell, Hall & Associates, Inc.
Marine & Environmental Consulting
3584 Exchange Ave. Naples, FL 34104-3732
Email: tuna@thanaples.com Phone: (239) 643-0166 Fax: (239) 643-6632

GORDON RIVER GREENWAY

SOILS MAP

THESE DRAWINGS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION USE.

		REV#:	REV BY:	DATE:	CHK BY:	CHANGED:
DESIGNED:	MN	1.	-	-	-	-
DRAWN BY:	RMJ	2.	-	-	-	-
CREATED:	11-18-20	3.	-	-	-	-
JOB NO.:	20043.03	4.	-	-	-	-
SHEET NO.:	03 OF 07	5.	-	-	-	-

SECTION- 27,34 TOWNSHIP- 49S RANGE- 25E

Exhibit E

FLORIDA NATURAL AREAS INVENTORY **FIELD REPORT FORM - OCCURRENCE OF SPECIAL ANIMAL**

Instructions: (note: each form should include only ***one species, one locality,*** **and** ***preferably one date***)
(please include any additional information on the back of this sheet, or attach separately)
(complete what you can, leave fields blank or write unknown if you lack information)
(Note - you may use the tab key or the cursor to move between fields)

Scientific Name: _____
Common Name: _____
Observer: _____
Date observed: _____
Basis for Identification: _____
County: _____
Location of Animal(s): _____
(**please attach or send map** and give specific directions; if possible, mark site on copy of USGS 7.5 minute topo map or aerial photograph or draw detailed map with landmarks)
GPS coordinates: North: _____ West: _____ GPS accuracy if known: _____
Describe habitats or plant communities, including dominant plant species: _____
Extent of this habitat at site that may support animal (e.g., acres, miles): _____
Number of individuals (or nests, burrows, etc.) seen: _____
Estimated number of individuals in population (basis?): _____
Age or population structure (adults, young, etc.): _____
Ecological & behavioral notes (e.g., reproductive stage, activity type, feeding, flying, nesting): _____
Have you seen this species at the same location in the past? Yes _____ No _____
If yes, please give date(s): _____ Previous condition or notes: _____
Is there evidence of disturbance at the site? Yes _____ No _____
If yes, please describe: _____
Owner(s) of site: _____
Is owner protecting this animal? Yes _____ No _____ Comment _____
Conservation/Management Needs: _____
Additional comments (other useful information concerning this animal and site -- e.g., names and addresses of individuals who might be helpful, publications, museum specimen numbers, etc.): _____

Submitted by: _____
Affiliation: _____
Address: _____
Phone: _____ Fax: _____
e-mail: _____
Date: _____

Please submit completed field report form to:

Dr. Dale R. Jackson, Sr. Research Zoologist
Florida Natural Areas Inventory
1018 Thomasville Road, Suite 200-C
Tallahassee, FL 32303
tel: 850-224-0626 fax: 850-681-9364
e-mail: djackson@fnai.org www.fnai.org

Exhibit F-1

3900417 OR: 4103 PG: 3415
RECORDED in OFFICIAL RECORDS of COLLIER COUNTY, FL
09/12/2006 at 12:31PM DWIGHT E. BROCK, CLERK
REC FEE 129.00
COPIES 15.00
Retn:
TRANSPORTATION/RIGHT OF WAY
INTEROFFICE- SOUTH HORSESHOE
ATTN: MARGARET BISHOP

This document prepared by:
Kristen L. Coons
Florida Communities Trust
Department of Community Affairs
2555 Shumard Oak Blvd.
Tallahassee, FL 32399

RECEIVED
SEP 19 2006
STORMWATER MGMT.

FLORIDA COMMUNITIES TRUST
FF4 AWARD #05-027-FF5
FCT Contract # 07-CT-59-05-F5-J1-027
Gordon River Water Quality Park

DECLARATION OF RESTRICTIVE COVENANTS

THIS AGREEMENT is entered into by and between the **FLORIDA COMMUNITIES TRUST** ("FCT"), a nonregulatory agency within the State of Florida Department of Community Affairs, and **COLLIER COUNTY**, a local government of the State of Florida ("Recipient").

THIS AGREEMENT IS ENTERED INTO BASED ON THE FOLLOWING FACTS:

WHEREAS, the intent of this Agreement is to impose terms and conditions on the use of the proceeds of certain bonds, hereinafter described, and the lands acquired with such proceeds, as described in Exhibit "A" attached hereto and made a part hereof ("Project Site"), that are necessary to ensure compliance with applicable Florida law and federal income tax law and to otherwise implement the provisions of Sections 259.105, 259.1051 and Chapter 380, Part III, Florida Statutes;

WHEREAS, Chapter 380, Part III, Fla. Stat., the Florida Communities Trust Act, creates a non-regulatory agency within the Department of Community Affairs ("Department") that will assist local governments in bringing into compliance and implementing the conservation, recreation and open space, and coastal elements of their comprehensive plans or in conserving natural resources and resolving land use conflicts by providing financial assistance to local governments and nonprofit environmental organizations to carry out projects and activities authorized by the Florida Communities Trust Act;

WHEREAS, FCT is funded through either Section 259.105(3)(c), Fla. Stat. of the Florida Forever Act, which provides for the distribution of twenty-two percent (22%), less certain reductions, of the net Florida Forever Revenue Bond proceeds to the Department, or any other revenue source designated by the Florida Legislature, to provide land acquisition grants to local governments and nonprofit environmental organizations for the acquisition of community-based projects, urban open spaces, parks and greenways to implement local comprehensive plans;

WHEREAS, the Florida Forever Revenue Bonds are issued as tax-exempt bonds, meaning the interest on the Bonds is excluded from the gross income of bondholders for federal income tax

purposes;

WHEREAS, Rule 9K-7.009(1), Florida Administrative Code ("F.A.C."), authorizes FCT to impose conditions for funding on those FCT applicants whose projects have been selected for funding;

WHEREAS, FCT has approved the terms under which the Project Site was acquired and the deed whereby the Recipient acquired title to the Project Site. The deed shall contain such covenants and restrictions as are sufficient to ensure that the use of the Project Site at all times complies with Section 375.051, Florida Statutes and Section 9, Article XII of the State Constitution and it shall contain clauses providing for the conveyance of title to the Project Site to the Board of Trustees of the Internal Improvement Trust Fund ("Trustees") upon the failure of the Recipient to use the Project Site acquired thereby for such purposes; and

WHEREAS, the purpose of this Agreement is to set forth the covenants and restrictions that are imposed on the Project Site subsequent to disbursing FCT Florida Forever funds to the Recipient for Project Costs.

NOW THEREFORE, in consideration of the mutual covenants and undertakings set forth herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, FCT and the Recipient do hereby contract and agree as follows:

I. PERIOD OF AGREEMENT

1. This Agreement shall begin upon execution by both parties. The covenants and restrictions contained herein shall run with the Project Site and shall bind, and the benefit shall inure to, FCT and the Recipient and their respective successors and assigns.

II. MODIFICATION OF AGREEMENT

1. Either party may request modification of the provisions of this Agreement at any time. Changes which are mutually agreed upon shall be valid only when reduced to writing and duly signed by each of the parties hereto. Such amendments shall be incorporated into this Agreement.

III. RECORDING AND APPROVAL OF DECLARATION OF RESTRICTIVE COVENANTS

1. Upon execution by the parties hereto, the Recipient shall cause this Agreement to be recorded and filed in the official public records of **Collier County, Florida**, and in such manner and in such other places as FCT may reasonably request. The Recipient shall pay all fees and charges incurred in connection therewith.

2. The Recipient and FCT agree that the State of Florida Department of Environmental Protection shall forward this Agreement to the Department of Environmental Protection Bond Counsel for review. In the event Bond Counsel opines that an amendment is required to this Agreement so that the tax-exempt status of the Florida Forever Bonds is not jeopardized, FCT and the Recipient shall amend the Agreement accordingly.

IV. NOTICE AND CONTACT

1. All notices provided under or pursuant to this Agreement shall be in writing and delivered either by hand delivery or first class, certified mail, return receipt requested, to the addresses specified below. Any such notice shall be deemed received on the date of delivery if by personal delivery or upon actual receipt if sent by registered mail.

FCT:
Florida Communities Trust
Department of Community Affairs
2555 Shumard Oak Blvd.
Tallahassee, FL 32399-2100
ATTN: Program Manager

Recipient:
Transportation Administrator
Collier County
2885 Horseshoe Drive South
Naples, Florida 34104

2. In the event that a different representative or address is designated for paragraph 1. above after execution of this Agreement, notice of the change shall be rendered to FCT as provided in paragraph 1. above.

V. PROJECT SITE TITLE REQUIREMENTS IMPOSED BY CHAPTER 259, CHAPTER 375 AND CHAPTER 380, PART III, FLA. STAT.

1. Any transfer of the Project Site shall be subject to the approval of FCT and FCT shall enter into a new agreement with the transferee containing such covenants, clauses or other restrictions as are sufficient to protect the interest of the State of Florida.

2. The interest acquired by the Recipient in the Project Site shall not serve as security for any debt of the Recipient.

3. If the existence of the Recipient terminates for any reason, title to the Project Site shall be conveyed to the Trustees unless FCT negotiates an agreement with another local government, nonprofit environmental organization, the Florida Division of Forestry, the Florida Fish and Wildlife Conservation Commission, the Department of Environmental Protection or a Water

Management District who agrees to accept title and manage the Project Site.

4. In the event that the Project Site is damaged or destroyed or title to the Project Site, or any part thereof, is taken by any governmental body through the exercise or the threat of the exercise of the power of eminent domain, the Recipient shall deposit with FCT any insurance proceeds or any condemnation award and shall promptly commence to rebuild, replace, repair or restore the Project Site in such manner as is consistent with the Agreement. FCT shall make any such insurance proceeds or condemnation award moneys available to provide funds for such restoration work. In the event that the Recipient fails to commence or to complete the rebuilding, repair, replacement or restoration of the Project Site after notice from FCT, FCT shall have the right, in addition to any other remedies at law or in equity, to repair, restore, rebuild or replace the Project Site so as to prevent the occurrence of a default hereunder.

Notwithstanding any of the foregoing, FCT shall have the right to seek specific performance of any of the covenants and restrictions of this Agreement concerning the construction and operation of the Project Site.

VI. MANAGEMENT OF PROJECT SITE

1. The Project Site shall be managed only for the conservation, protection and enhancement of natural and historical resources and for compatible passive, natural resource-based public outdoor recreation, along with other related uses necessary for the accomplishment of this purpose. The proposed uses for the Project Site are specifically designated in the Management Plan approved by FCT.

2. The Recipient shall ensure that the future land use designation assigned to the Project Site is for a category dedicated to open space, conservation or outdoor recreation uses, as appropriate. If an amendment to the applicable comprehensive plan is required, the amendment shall be proposed at the next comprehensive plan amendment cycle available to the Recipient.

3. The Recipient shall ensure, and provide evidence thereof to FCT, that all activities under this Agreement comply with all applicable local, state, regional and federal laws and regulations, including zoning ordinances and the adopted and approved comprehensive plan for the jurisdiction, as applicable. Evidence shall be provided to FCT that all required licenses and permits have been obtained prior to the commencement of any construction.

4. The Recipient shall, through its agents and employees, prevent the unauthorized use of the Project Site or any use thereof not in conformity with the Management Plan approved by FCT.

5. FCT staff or its duly authorized representatives shall have the right at any time to inspect the Project Site and the operations of the Recipient at the Project Site.

6. All buildings, structures, improvements and signs shall require the prior written

approval of FCT as to purpose. Further, tree removal, other than non-native species, and major land alterations shall require the written approval of FCT. The approvals required from FCT shall not be unreasonably withheld by FCT upon sufficient demonstration that the proposed structures, buildings, improvements, signs, vegetation removal or land alterations will not adversely impact the natural resources of the Project Site. FCT's approval of the Recipient's Management Plan addressing the items mentioned herein shall be considered written approval from FCT.

7. If archaeological and historic sites are located on the Project Site, the Recipient shall comply with Chapter 267, Fla. Stat. The collection of artifacts from the Project Site or the disturbance of archaeological and historic sites on the Project Site shall be prohibited unless prior written authorization has been obtained from the Department of State, Division of Historical Resources.

8. As required by Rule 9K-7.013, F.A.C., each year after FCT reimbursement of Project Costs the Recipient shall prepare and submit to FCT an annual stewardship report that documents the progress made on implementing the Management Plan.

VII. SPECIAL MANAGEMENT CONDITIONS

The Management Plan for the project site is mentioned throughout this Agreement, and is particularly described in Section IV. above. In addition to the various conditions already described in this Agreement, which apply to all sites acquired with FCT funds, the Management Plan shall address the following conditions that are particular to the project site and result from either representations made in the application that received scoring points or observations made by the FCT staff during the site visit described in Rule 9K-7.009(1), F.A.C.:

1. Two or more resource-based outdoor recreational facilities including a nature trail and fishing pier/observation platform, and two or more user-oriented outdoor recreational facilities including an athletic field and tennis courts shall be provided within 1,000 feet of the project site on adjacent publicly-owned lands. Public walkways and pedestrian crossings shall be provided to allow for safe connection between the project site and user-oriented facilities within 1,000 feet of the project site. The facilities shall be developed in a manner that allows the general public reasonable access for observation and appreciation of the natural resources on the project site without causing harm to those resources.

2. A permanent recognition sign, a minimum size of 4' x 6', shall be maintained in the entrance area of the project site. The sign shall acknowledge that the project site was purchased with funds from the Florida Communities Trust and Collier County.

3. At least 12 regularly scheduled and ongoing educational classes or programs that promote the protection of natural resources shall be provided annually at the project site.

4. Interpretive signage shall be provided to educate visitors about natural resources.

5. A survey of the natural communities and plant species on the project site shall be conducted prior to the development of the project site. The survey shall be used during development of the site to ensure the protection, restoration, and preservation of the natural communities on the project site.

6. The forested wetlands and mangrove swamp communities that occur on the project site shall be restored and appropriately managed to ensure the long-term viability of these communities.

7. The project site shall be managed in a manner that protects and enhances habitat for listed wildlife species that utilize or could potentially utilize the project site, including listed wading birds. Periodic surveys shall be conducted of listed species using the project site.

8. The quality of surface waters shall be improved by the installation of stormwater facilities on the project site that provide wildlife habitat and/or open space in a park like setting. The development of the stormwater facilities shall be coordinated with the South Florida Water Management District.

9. A comprehensive landscaping plan will be developed for the project site. The landscaping plan will make significant use of native plants.

10. Approximately 20 acres of degraded upland community shall be restored in terms of biological composition and ecological function. Invasive exotic vegetation will be removed and the area will be replanted with appropriate native upland vegetation.

11. Approximately 15 acres of disturbed wetlands shall be restored to a natural condition in terms of biological composition and ecological function. The invasive exotic vegetation will be removed, littoral areas will be installed around the wetlands, lakes and marshes, and the area replanted with appropriate native wetland vegetation.

12. An ongoing monitoring and control program for invasive vegetation including exotic (non-native) and nuisance native plant species shall be implemented at the project site. The objective of the control program shall be the elimination of invasive exotic plant species and the maintenance of a diverse association of native vegetation. The management plan shall reference the Exotic Pest Plant Council's List of Florida's Most Invasive Species to assist in identifying invasive exotics on the project site.

13. A feral animal removal program shall be developed and implemented for dogs, cats, ducks, and other non-native wildlife that may be found on the project site.

14. Collier County will coordinate with the City of Naples, the South Florida Water Management District, the Conservancy of Southwest Florida in the preservation, restoration, and

management of the project site.

15. An archaeological survey shall be preformed for any area within the project site proposed for development prior to the commencement of proposed development activities in that area. All planned activities involving known archaeological sites or identified site areas shall be closely coordinated with the Department of State, Division of Historic Resources in order to prevent the disturbance of significant sites.

16. Pedestrian and bicycle access to the project site shall be promoted through the provision of pedestrian oriented walkways and bicycle facilities that link the project site with adjacent residential neighborhoods. Bike parking stands shall be installed at the project site to provide an alternative to automobile transportation to the project site.

17. The project site shall be protected and managed as part of linked conservation lands and wildlife corridor.

18. Proposed site improvements shall be designed and located to minimize or eliminate the long-term risk of storm damage or flooding in conjunction with appropriate hazard mitigation agencies or experts.

19. The requirements imposed by other grant program funds that may be sought for activities associated with the project site shall not conflict with the terms and conditions of this award.

VIII. OBLIGATIONS OF THE RECIPIENT RELATING TO THE USE OF BOND PROCEEDS

1. FCT is authorized by Section 380.510, Fla. Stat. to impose conditions for funding on the Recipient in order to ensure that the project complies with the requirements for the use of Florida Forever Bond proceeds including, without limitation, the provisions of the Internal Revenue Code and the regulations promulgated thereunder as the same pertain to tax exempt bonds.

2. The Recipient agrees and acknowledges that the below listed transactions, events, and circumstances, collectively referred to as the "disallowable activities," may be disallowed on the Project Site as they may have negative legal and tax consequences under Florida law and federal income tax law. The Recipient further agrees and acknowledges that these disallowable activities may be allowed up to a certain extent based on guidelines or tests outlined in the Federal Private Activity regulations of the Internal Revenue Service:

a. any sale or lease of any interest in the Project Site to a non-governmental person or organization;

b. the operation of any concession on the Project Site by a non-governmental person or organization;

c. any sales contract or option to buy or sell things attached to the Project Site to be severed from the Project Site with a non-governmental person or organization;

d. any use of the Project Site by a non-governmental person other than in such person's capacity as a member of the general public;

e. any change in the character or use of the Project Site from that use expected at the date of the issuance of any series of Bonds from which the disbursement is to be made;

f. a management contract for the Project Site with a non-governmental person or organization; or

g. such other activity or interest as may be specified from time to time in writing by FCT to the Recipient.

3. If the Project Site, after its acquisition by the Recipient and/or the Trustees, is to remain subject to any of the disallowable activities, the Recipient shall provide notice to FCT, as provided for in paragraph III.1. above, at least sixty (60) calendar days in advance of any such transactions, events or circumstances, and shall provide FCT such information as FCT reasonably requests in order to evaluate for approval the legal and tax consequences of such disallowable activities.

4. In the event that FCT determines at any time that the Recipient is engaging, or allowing others to engage, in disallowable activities on the Project Site, the Recipient shall immediately cease or cause the cessation of the disallowable activities upon receipt of written notice from FCT. In addition to all other rights and remedies at law or in equity, FCT shall have the right to seek temporary and permanent injunctions against the Recipient for any disallowable activities on the Project Site.

DELEGATIONS AND CONTRACTUAL ARRANGEMENTS BETWEEN THE RECIPIENT AND OTHER GOVERNMENTAL BODIES, NONPROFIT ENTITIES OR NON GOVERNMENTAL PERSONS FOR USE OR MANAGEMENT OF THE PROJECT SITE WILL IN NO WAY RELIEVE THE RECIPIENT OF THE RESPONSIBILITY TO ENSURE THAT THE CONDITIONS IMPOSED HEREIN ON THE PROJECT SITE AS A RESULT OF UTILIZING BOND PROCEEDS TO ACQUIRE THE PROJECT SITE ARE FULLY COMPLIED WITH BY THE CONTRACTING PARTY.

IX. RECORDKEEPING; AUDIT REQUIREMENTS

1. The Recipient shall maintain financial procedures and support documents, in accordance with generally accepted accounting principles, to account for the receipt and expenditure of funds under this Agreement. These records shall be available at all reasonable times for inspection, review or audit by state personnel, FCT and other personnel duly authorized by FCT. "Reasonable" shall be construed according to the circumstances, but ordinarily shall mean the normal business hours of 8:00 a.m. to 5:00 p.m., local time, Monday through Friday.

2. If the Recipient expends a total amount of State financial assistance equal to or in excess of $500,000 in any fiscal year of such Recipient, the Recipient must have a State single or project-specific audit for such fiscal year in accordance with Section 215.97, Fla. Stat., the applicable rules of the Executive Office of the Governor and the Comptroller and Chapter 10.550 (local government entities) or Chapter 10.650 (nonprofit organizations), Rules of the Auditor General. In determining the State financial assistance expended in its fiscal year, the Recipient shall consider all sources of State financial assistance, including State funds received from FCT, other state agencies and other non-state entities. State financial assistance does not include Federal direct or pass-through awards and resources received by a non-state entity for Federal program matching requirements. The funding for this Agreement was received by FCT as a grant appropriation.

In connection with the audit requirements addressed herein, the Recipient shall ensure that the audit complies with the requirements of Section 215.97(7), Fla. Stat. This includes submission of a reporting package as defined by Section 215.97(2)(d), Fla. Stat. and Chapter 10.550 (local government entities) or 10.650 (nonprofit organizations), Rules of the Auditor General.

3. If the Recipient expends less than $500,000 in State financial assistance in its fiscal year, an audit conducted in accordance with the provisions of Section 215.97, Fla. Stat. is not required. If the Recipient elects to have an audit conducted in accordance with the provisions of Section 215.97, Fla. Stat., the cost of the audit must be paid from non-State funds (i.e., the cost of such an audit must be paid from Recipient funds not obtained from a State entity).

4. The annual financial audit report shall include all management letters, the Recipient's response to all findings, including corrective actions to be taken, and a schedule of financial assistance specifically identifying all Agreement and other revenue by sponsoring agency and agreement number. Copies of financial reporting packages required under this Article shall be submitted by or on behalf of the Recipient directly to each of the following:

Department of Community Affairs (at each of the following addresses):
Office of Audit Services
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

and

Florida Communities Trust
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

State of Florida Auditor General at the following address:
Auditor General's Office
Room 401, Claude Pepper Building
111 West Madison Street
Tallahassee, Florida 32302-1450

5. If the audit shows that any portion of the funds disbursed hereunder were not spent in accordance with the conditions of this Agreement, the Recipient shall be held liable for reimbursement to FCT of all funds not spent in accordance with the applicable regulations and Agreement provisions within thirty (30) days after FCT has notified the Recipient of such non-compliance.

6. The Recipient shall retain all financial records, supporting documents, statistical records and any other documents pertinent to this Agreement for a period of five years after the date of submission of the final expenditures report. However, if litigation or an audit has been initiated prior to the expiration of the five-year period, the records shall be retained until the litigation or audit findings have been resolved.

7. The Recipient shall have all audits completed in accordance with Section 215.97, Fla. Stat. performed by an independent certified public accountant ("IPA") who shall either be a certified public accountant or a public accountant licensed under Chapter 473, Fla. Stat. The IPA shall state that the audit complied with the applicable provisions noted above.

X. DEFAULT; REMEDIES; TERMINATION

1. If any essential term or condition of the Declaration of Restrictive Covenants is violated by the Recipient or by some third party with the knowledge of the Recipient, the Recipient shall be notified of the violation by written notice given by personal delivery, registered mail or registered expedited service. The recipient shall diligently commence to cure the violation or complete curing activities within thirty (30) days after receipt of notice of the violation. If the curing activities can not be reasonably completed within the specified thirty (30) day time frame, the Recipient shall submit a timely written request to the FCT Program Manager that includes the status of the current activity, the reasons for the delay and a time frame for the completion of the curing activities. FCT shall submit a written response within thirty (30) days of receipt of the request and approval shall not be unreasonably withheld. It is FCT's position that all curing activities shall be completed within one hundred twenty (120) days of the Recipient's notification of the violation. However, if the Recipient can demonstrate extenuating circumstances exist to justify a greater extension of time to complete the activities, FCT shall give the request due consideration. If the Recipient fails to correct the violation within either (a) the initial thirty (30) day time frame or (b) the

time frame approved by FCT pursuant to the Recipient's request, fee simple title to all interest in the Project Site shall be conveyed to the Trustees unless FCT negotiates an agreement with another local government, nonprofit environmental organization, the Florida Division of Forestry, the Florida Fish and Wildlife Conservation Commission, the Department of Environmental Protection or a Water Management District, who agrees to accept title and manage the Project Site. FCT shall treat such property in accordance with Section 380.508(4)(e), Fla. Stat.

XI. STANDARD CONDITIONS

1. This Agreement shall be construed under the laws of the State of Florida, and venue for any actions arising out of this Agreement shall lie in Leon County. If any provision hereof is in conflict with any applicable statute or rule, or is otherwise unenforceable, then such provision shall be deemed null and void to the extent of such conflict and shall be severable, but shall not invalidate any other provision of this Agreement.

2. No waiver by FCT of any right or remedy granted hereunder or failure to insist on strict performance by the Recipient shall affect or extend or act as a waiver of any other right or remedy of FCT hereunder, or affect the subsequent exercise of the same right or remedy by FCT for any further or subsequent default by the Recipient.

3. The Recipient agrees to comply with the Americans With Disabilities Act (Public Law 101-336, 42 U.S.C. Section 12101 et seq.), if applicable, which prohibits discrimination by public and private entities on the basis of disability in the areas of employment, public accommodations, transportation, State and local government services, and in telecommunications.

4. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime or on the discriminatory vendor list may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit lease bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with a public entity, and may not transact business with any public entity in excess of Category Two for a period of 36 months from the date of being placed on the convicted vendor list or on the discriminatory vendor list.

5. No funds or other resources received from FCT in connection with this Agreement may be used directly or indirectly to influence legislation or any other official action by the Florida Legislature or any state agency.

This Agreement including Exhibit "A" embodies the entire agreement between the parties.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement.

Witness:

Patricia M. Lehnhard
Print Name: PATRICIA M. LEHNHARD

Margaret A Bishop
Print Name: MARGARET A. BISHOP

COLLIER COUNTY, a local government of the State of Florida

By: Norman Feder

Date: 8/7/06

Approved as to Form and Legality:
By: Scott R Teach, Asst. Co. Atty.
Print Name: Scott R. Teach

STATE OF FLORIDA
COUNTY OF COLLIER

The foregoing instrument was acknowledged before me this 7th day of August, 2006, by Norman Feder, as _____, of Collier County, on behalf of the Local Government, and who is personally known to me.

Gloria T. Herrera
Notary Public
Print Name: Gloria T. Herrera
Commission No. DD212374
My Commission Expires: May 13, 2007

GLORIA TREVINO HERRERA
Notary Public - State of Florida
My Commission Expires May 13, 2007
Commission # DD212374
Bonded By National Notary Assn.

Witness:

Print Name: BRYAN WESBECK

Print Name: GAYLE H. BRETT

FLORIDA COMMUNITIES TRUST

By: _____
Janice Browning, Chief of Staff

Date: 8/30/06

Approved as to Form and Legality:
By: _____
Kristen L. Coons, Trust Counsel

STATE OF FLORIDA
COUNTY OF LEON

The foregoing instrument was acknowledged before me this 30th day of August, 2006, by **Janice Browning, Chief of Staff**. She is personally known to me.

_____
Notary Public
Print Name: _____
Commission No. _____
My Commission Expires: _____

Gayle H. Brett
MY COMMISSION EXPIRES October 6, 2006
#DD153509
Bonded thru Troy Fain-Insurance
NOTARY PUBLIC, STATE OF FLORIDA

DRC\05-027-FF5
8/17/2006

EXHIBIT "A"

All those portions of Lots 9, 10 and 11, NAPLES IMPROVEMENT COMPANY LITTLE FARMS subdivision, according to the plat thereof, recorded in the Public Records of Collier County, Florida in Plat Book 2, Page 2, lying North of the Right-of-Way granted in Official Records Book 876, Page 1716 and North of the Right-of-Way granted in Official Records Book 2053, Page 1671 and North of the Right of Way granted in Official Records Book 2053, Page 1687, all of the Public Records of Collier County, Florida, LESS the West 20 feet thereof.

TOGETHER WITH:

All that part of the East 564 feet of the West 1184 feet of Lot 8, NAPLES IMPROVEMENT COMPANY LITTLE FARMS subdivision, according to the plat thereof, recorded in the Public Records of Collier County, Florida in Plat Book 2, Page 2 lying North of the Right-of-Way granted in Official Records Book 876, Page 1718 and North of the Right-of-Way granted in Official Records Book 2053, Page 1671 and North of the Right-of-Way granted in Official Records Book 2053, Page 1687 all of the Collier County Public Records.

LESS AND EXCEPT

A portion of lots 8, 9, 10 & 11 Naples Improvement Company's Little Farms according to the plat thereof as recorded in Plat Book 2, Page 2, Public Records of Collier County, Florida,

Commencing at the northeast corner of said lot 11; thence along the north line of said 11, South 89°47'52" West, a distance of 2586.98 feet to a point 20.00 feet east of Goodlette-Frank Road right-of-way line said point also being 40.00 feet east of the west line of said Lot 9 and the POINT OF BEGINNING; thence South 00°16'50" East, a distance of 719.27 feet to a point of curve to the left having a radius of 163.78 feet, a central angle of 90°01'08", and a chord bearing of South 45°17'24" East, a chord distance of 231.65 feet; thence southeasterly along the arc a distance of 257.31 feet; thence North 89°42'01" East, a distance of 206.08 feet; thence North 00°17'59" West, a distance of 173.09 feet to the point of curve of a non tangent curve to the right, of which the radius point lies North 13°45'06" West, a radial distance of 200.00 feet and having a chord bearing of North 73°13'41" West, a chord distance of 203.16 feet; thence westerly along the arc, through a central angle of 61°02'48", a distance of 213.09 feet to a point of reverse curvature to the left having a radius of 325.00 feet, a central angle of 22°55'47", and a chord bearing of North 54°10'11" West, a chord distance of 129.20 feet; thence northwesterly along the arc a distance of 130.07 feet to a point of reverse curvature to the right having a radius of 60.00 feet, a central angle of 88°59'19", and a chord bearing of North 21°08'25" West, a chord distance of 84.10 feet; thence northerly along the arc a distance of 93.19 feet to a point of reverse curvature to the left having a radius of 150.00 feet, a central angle of 39°41'49", and a chord bearing of North 03°30'20" East, a chord distance of 101.86 feet; thence northerly along the arc a distance of 103.93 feet to a point of reverse curvature to the right having a radius of 110.00 feet, a central angle of 62°15'34", and a chord bearing of North 14°47'12" East, a chord distance of 113.74 feet; thence northerly along the arc a distance of 119.53 feet; thence North 44°05'01" West, a distance of 47.16 feet to a point of curve to the right having a radius of 30.00 feet, a central angle of 31°07'23", and a chord bearing of North 28°31'20" West, a chord distance of 16.10 feet; thence northwesterly along the arc a distance of 16.30 feet to a point of compound curve to the right having a radius of 40.00 feet, a central angle of 72°08'19", and a chord bearing of North 23°06'31" East, a chord distance of 47.10 feet; thence northeasterly along the arc a distance of 50.36 feet to a point of reverse curvature to the left having a radius of 60.00 feet, a central angle of 11°23'52", and a chord bearing of North 53°28'45" East, a chord distance of 11.92 feet; thence northeasterly along the arc a distance of 11.94 feet to a point of reverse curvature to the right having a radius of 50.00 feet, a central angle of 77°03'22", and a chord bearing of North 86°18'30" East, a chord distance of 62.29 feet; thence easterly along the arc a distance of 67.24 feet to a point of reverse curvature to the left having a radius of 60.00 feet, a central angle of 43°52'18", and a chord bearing of South 77°05'58" East, a chord distance of 44.83 feet; thence easterly along the arc a distance of 45.94 feet to a point of reverse curvature to the right having a radius of 30.00 feet, a central angle of 68°21'14", and a chord bearing of South 64°51'30" East, a chord distance of 33.71 feet; thence southeasterly along the arc a distance of 35.79 feet to a point of compound curve to the right having a radius of 20.00 feet, a central angle of 19°57'40", and a chord bearing of South 05°42'03" East, a chord distance of 16.89 feet; thence southerly along the arc a distance of 17.44 feet; thence South 19°16'46" West, a distance of 38.66 feet to the point of curve of a non tangent curve to the right, of which the radius point lies South 19°16'46" West, a radial distance of 110.00 feet and having a chord bearing of South 57°38'47" East, a chord distance of 48.52 feet; thence southeasterly along the arc, through a central angle of 25°28'54", a

distance of 48.92 feet to a point of reverse curvature to the left having a radius of 300.00 feet, a central angle of 30°11'21", and a chord bearing of South 60°20'01" East, a chord distance of 156.25 feet; thence southeasterly along the arc a distance o 158.07 feet to a point of reverse curvature to the right having a radius of 60.00 feet, a central angle of 103°24'44", and a ch bearing of South 23°43'19" East, a chord distance of 94.18 feet; thence southeasterly along the arc a distance of 108.29 feet a point of reverse curvature to the left having a radius of 60.00 feet, a central angle of 61°09'59", and a chord bearing of So 02°35'56" East, a chord distance of 61.05 feet; thence southerly along the arc a distance of 64.05 feet to a point of compoun curve to the left having a radius of 110.00 feet, a central angle of 119°09'34", and a chord bearing of North 87°14'17" East, c chord distance of 189.71 feet; thence easterly along the arc a distance of 228.77 feet to a point of reverse curvature to the r having a radius of 125.00 feet, a central angle of 109°59'56", and a chord bearing of North 82°39'28" East, a chord distance c 204.79 feet; thence easterly along the arc a distance of 239.98 feet to a point of reverse curvature to the left having a radius 200.00 feet, a central angle of 16°40'57", and a chord bearing of South 50°41'02" East, a chord distance of 58.03 feet; thence southeasterly along the arc a distance of 58.23 feet to a point of reverse curvature to the right having a radius of 100.00 feet central angle of 132°49'30", and a chord bearing of South 07°23'15" West, a chord distance of 183.29 feet; thence southerly al the arc a distance of 231.82 feet to a point of compound curve to the right having a radius of 500.00 feet, a central angle o 27°14'56", and a chord bearing of South 87°25'28" West, a chord distance of 235.56 feet; thence westerly along the arc a distance of 237.79 feet to a point of reverse curvature to the left having a radius of 500.00 feet, a central angle of 00°15'06", and a chord bearing of North 79°04'37" West, a chord distance of 2.20 feet; thence westerly along the arc a distance of 2.20 feet; thence South 00°17'59" East, a distance of 177.45 feet to the point of curve of a non tangent curve to the left, of which the radius point lies North 00°17'59" West, a radial distance of 695.20 feet and having a chord bearing of North 83°10'03" East chord distance of 158.19 feet; thence easterly along the arc, through a central angle of 13°03'56", a distance of 158.53 feet; thence North 76°38'05" East, a distance of 385.99 feet; thence South 86°40'02" East, a distance of 20.88 feet; thence North 76°38'05" East, a distance of 117.21 feet to the point of curve of a non tangent curve to the right, of which the radius point South 13°22'05" East, a radial distance of 832.00 feet and having a chord bearing of North 82°32'00" East, a chord distance of 171.09 feet; thence easterly along the arc, through a central angle of 11°48'11", a distance of 171.39 feet; thence South 78°07'48" East, a distance of 47.91 feet to a point on the northerly right-of-way line of Golden Gate Parkway; thence along sai right-of-way line South 89°40'10" West, a distance of 22.77 feet to a point of curve to the left having a radius of 837.95 feet central angle of 38°52'20", and a chord bearing of South 70°14'00" West, a chord distance of 557.66 feet; thence westerly along the northerly right-of-way line and the arc a distance of 568.50 feet; thence continue along said said northerly right-of-way South 50°47'50" West, a distance of 435.31 feet; thence leaving said north right-of-way North 00°16'50" West, a distance of 204.82 feet to a point on the south line of lot 9; thence along said line South 89°39'59" West, a distance of 600.00 feet to th east right-of-way line of said Goodlette-Frank Road said point lying 20.00 feet east of the west line of said lot 9; thence along said right-of-way line being 20 feet east of and parallel with the west line of said lots 9, 10 & 11, North 00°16'50" West, a distance of 996.23 feet to the north line of said lot 11; thence along said line North 89°47'52" East, a distance of 20.00 feet t the POINT OF BEGINNING.

Containing 453,212 square feet or 10.40 acres, more or less.

3372755 OR: 3534 PG: 1753
RECORDED IN OFFICIAL RECORDS of COLLIER COUNTY, FL
04/05/2004 at 08:34AM DWIGHT E. BROCK, CLERK
COMM 14362560.00
REC FEE 15.00
DOC-.70 100538.20

Property Appraiser's
Parcel Identification No.
13800021001
This instrument was prepared
without review or opinion of title by
William J. Dempsey
Cheffy Passidomo
Wilson & Johnson, LLP
821 Fifth Avenue South
Naples, Florida 34102
(239) 261-9300

(5)

RETN:
CHEFFY PASSIDOMO PT AL
821 5TH AVE S #201
NAPLES FL 34102

(Space above this line for recording data)

WARRANTY DEED

THIS WARRANTY DEED, made the 17 day of March, 2004, by **Charles Fleischmann III, as to an undivided 49.61% interest in the herein-described property**, whose post office address is Fleischmann Enterprises, 4001 Carew Tower, Cincinnati, Ohio 45202, and **Dorette L. Fleischmann Viets, a/k/a Dielle Fleischmann Viets, as to an undivided 25.195% interest in the herein-described property**, whose post office address is c/o Mr. Philip Lawrence, Inverness Counsel, Inc., 545 Madison Avenue, New York, New York 10022 (singularly or collectively "Grantor"), to **Collier County, a political subdivision of the State of Florida**, whose post office address is Attention: Right-of-Way Acquisition Section, 2685 South Horseshoe Drive - Suite 212, Naples, Florida 34104 (singularly or collectively "Grantee"):

(Wherever used herein, the terms "Grantor" and "Grantee" include all parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

WITNESSETH: That the Grantor, for and in consideration of the sum of Ten Dollars ($10.00) and other valuable considerations, receipt of which is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee, an undivided 74.805 % interest in and to that certain land situated in Collier County, Florida, viz:

All those portions of Lots 9, 10 and 11, NAPLES IMPROVEMENT COMPANY LITTLE FARMS subdivision, according to the plat thereof, recorded in the Public Records of Collier County, Florida, in Plat Book 2, Page 2, lying North of the Right-of-Way granted in Official Records Book 876, Page 1716, and North of the Right-of-Way granted in Official Records Book 2053, Page 1671, and North of the Right of Way granted in Official Records Book 2053, Page 1687, all of the Public Records of Collier County, Florida, LESS the West 20 feet thereof.

TOGETHER WITH:

All that part of the East 564 feet of the West 1184 feet of Lot 8, NAPLES IMPROVEMENT COMPANY LITTLE FARMS subdivision, according to the plat thereof, recorded in the Public Records of Collier County, Florida, in Plat Book 2, Page 2, lying North of the Right-of-Way granted in Official Records Book 876, Page 1718, and North of the Right-of-Way granted in Official Records Book 2053, Page 1671, and North of the Right-of-Way granted in Official Records Book 2053, Page 1687, all of the Collier County Public Records.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND, the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes for the current and subsequent years, zoning and use restrictions imposed by governmental authority, restrictions and easements common to the subdivision, and outstanding oil, gas and mineral interests of record, if any.

GRANTOR HEREBY represents and warrants that the above described property is not Grantor's Florida homestead; that neither Grantor nor Grantor's family reside at the above described property or on adjacent property; and that Grantor in fact, does reside at:

Charles Fleischmann III address: 9575 Cunningham Road, Cincinnati, Ohio 45243;

Dorette L. Fleischmann Veits address: Over the Grass Farms, 3370 Whitewood Road, The Plains, Virginia 20198.

IN WITNESS WHEREOF, Grantor has signed and sealed these presents the day and year first above written.

Signed, Sealed and Delivered as to Each Grantor in the Presence of:

Witness Name: PAUL E. SELZER

Witness Name: Pamela J. Story

Charles Fleischmann
Charles Fleischmann III

STATE OF OHIO)
) ss:
COUNTY OF HAMILTON)

The foregoing instrument was acknowledged before me this 17th day of March, 2004, by Charles Fleischmann III, who is personally known to me or who has produced _____ as identification.

NOTARY PUBLIC
Name: Judith M. Retallick
(Type or Print)
My Commission Expires:

JUDITH M. RETALLICK
NOTARY PUBLIC, STATE OF OH
MY COMMISSION EXPIRES 12-2
2 10

Warranty Deed
Page 3

Signed, Sealed and Delivered as
to Each Grantor in the Presence of:

Witness Name: Margaret S. Rhodes

Dorette L. Fleischmann Viets
Dorette L. Fleischmann Viets,
a/k/a Dielle Fleischmann Viets

Witness Name: MARY BARTLETT

STATE OF Virginia)
) ss:
COUNTY OF Augusta)

The foregoing instrument was acknowledged before me this 17th day of March, 2004, by **Dorette L. Fleischmann Viets, a/k/a Dielle Fleischmann Viets,** who is personally known to me or who has produced _____, as identification.

NOTARY PUBLIC
Name: Margaret S. Rhodes
(Type or Print)
My Commission Expires: Jan. 31, 2008

4042169 OR: 4253 PG: 0713
RECORDED in OFFICIAL RECORDS of COLLIER COUNTY, FL
07/03/2007 at 01:45PM DWIGHT E. BROCK, CLERK
REC FEE 120.50
Retn:
HEALTH & PUBLIC SERVICES
INTEROFFICE- BLDG H 2ND FL
ATTN: AMANDA TOWNSEND

This document prepared by:
Kristen L. Coons, Esq.
Florida Communities Trust
Department of Community Affairs
2555 Shumard Oak Blvd.
Tallahassee, FL 32399

FLORIDA COMMUNITIES TRUST
FF6 AWARD #06-043-FF6
FCT Contract #07-CT-96-06-F6-J1-043
GORDON RIVER GREENWAY PARK

DECLARATION OF RESTRICTIVE COVENANTS

THIS AGREEMENT is entered into by and between the FLORIDA COMMUNITIES TRUST ("FCT"), a nonregulatory agency within the State of Florida Department of Community Affairs, and COLLIER COUNTY, a political subdivision of the State of Florida ("Recipient").

THIS AGREEMENT IS ENTERED INTO BASED ON THE FOLLOWING FACTS:

WHEREAS, the intent of this Agreement is to impose terms and conditions on the use of the proceeds of certain bonds, hereinafter described, and the lands acquired with such proceeds, as described in Exhibit "A" attached hereto and made a part hereof ("Project Site"), that are necessary to ensure compliance with applicable Florida law and federal income tax law and to otherwise implement the provisions of Sections 259.105, 259.1051 and Chapter 380, Part III, Florida Statutes;

WHEREAS, Chapter 380, Part III, Fla. Stat., the Florida Communities Trust Act, creates a non-regulatory agency within the Department of Community Affairs ("Department") that will assist local governments in bringing into compliance and implementing the conservation, recreation and open space, and coastal elements of their comprehensive plans or in conserving natural resources and resolving land use conflicts by providing financial assistance to local governments and nonprofit environmental organizations to carry out projects and activities authorized by the Florida Communities Trust Act;

WHEREAS, FCT is funded through either Section 259.105(3)(c), Fla. Stat. of the Florida Forever Act, which provides for the distribution of twenty-two percent (22%), less certain reductions, of the net Florida Forever Revenue Bond proceeds to the Department, or any other revenue source designated by the Florida Legislature, to provide land acquisition grants to local governments and nonprofit environmental organizations for the acquisition of community-based projects, urban open spaces, parks and greenways to implement local comprehensive plans;

WHEREAS, the Florida Forever Revenue Bonds are issued as tax-exempt bonds, meaning the interest on the Bonds is excluded from the gross income of bondholders for federal income tax purposes;

WHEREAS, Rule 9K-7.009(1), Florida Administrative Code ("F.A.C."), authorizes FCT to impose conditions for funding on those FCT applicants whose projects have been selected for funding;

WHEREAS, FCT has approved the terms under which the Project Site was acquired and the deed whereby the Recipient acquired title to the Project Site. The deed shall contain such covenants and restrictions as are sufficient to ensure that the use of the Project Site at all times complies with Section 375.051, Florida Statutes and Section 9, Article XII of the State Constitution and it shall contain clauses providing for the conveyance of title to the Project Site to the Board of Trustees of the Internal Improvement Trust Fund ("Trustees") upon the failure of the Recipient to use the Project Site acquired thereby for such purposes; and

WHEREAS, the purpose of this Agreement is to set forth the covenants and restrictions that are imposed on the Project Site subsequent to disbursing FCT Florida Forever funds to the Recipient for Project Costs.

NOW THEREFORE, in consideration of the mutual covenants and undertakings set forth herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, FCT and the Recipient do hereby contract and agree as follows:

I. PERIOD OF AGREEMENT

1. This Agreement shall begin upon execution by both parties. The covenants and restrictions contained herein shall run with the Project Site and shall bind, and the benefit shall inure to, FCT and the Recipient and their respective successors and assigns.

II. MODIFICATION OF AGREEMENT

1. Either party may request modification of the provisions of this Agreement at any time. Changes which are mutually agreed upon shall be valid only when reduced to writing and duly signed by each of the parties hereto. Such amendments shall be incorporated into this Agreement.

III. RECORDING AND APPROVAL OF DECLARATION OF RESTRICTIVE COVENANTS

1. Upon execution by the parties hereto, the Recipient shall cause this Agreement to be recorded and filed in the official public records of **Collier County, Florida**, and in such manner and in such other places as FCT may reasonably request. The Recipient shall pay all fees and charges incurred in connection therewith.

2. The Recipient and FCT agree that the State of Florida Department of Environmental

Protection shall forward this Agreement to the Department of Environmental Protection Bond Counsel for review. In the event Bond Counsel opines that an amendment is required to this Agreement so that the tax-exempt status of the Florida Forever Bonds is not jeopardized, FCT and the Recipient shall amend the Agreement accordingly.

IV. NOTICE AND CONTACT

1. All notices provided under or pursuant to this Agreement shall be in writing and delivered either by hand delivery or first class, certified mail, return receipt requested, to the addresses specified below. Any such notice shall be deemed received on the date of delivery if by personal delivery or upon actual receipt if sent by registered mail.

FCT:

Florida Communities Trust
Department of Community Affairs
2555 Shumard Oak Blvd.
Tallahassee, FL 32399-2100
ATTN: Program Manager

Recipient:

_____
_____
_____
ATTN: _____

2. In the event that a different representative or address is designated for paragraph 1. above after execution of this Agreement, notice of the change shall be rendered to FCT as provided in paragraph 1. above.

V. PROJECT SITE TITLE REQUIREMENTS IMPOSED BY CHAPTER 259, CHAPTER 375 AND CHAPTER 380, PART III, FLA. STAT.

1. Any transfer of the Project Site shall be subject to the approval of FCT and FCT shall enter into a new agreement with the transferee containing such covenants, clauses or other restrictions as are sufficient to protect the interest of the State of Florida.

2. The interest acquired by the Recipient in the Project Site shall not serve as security for any debt of the Recipient.

3. If the existence of the Recipient terminates for any reason, title to the Project Site shall be conveyed to the Trustees unless FCT negotiates an agreement with another local government, nonprofit environmental organization, the Florida Division of Forestry, the Florida Fish and Wildlife Conservation Commission, the Department of Environmental Protection or a Water

Management District who agrees to accept title and manage the Project Site.

4. In the event that the Project Site is damaged or destroyed or title to the Project Site, or any part thereof, is taken by any governmental body through the exercise or the threat of the exercise of the power of eminent domain, the Recipient shall deposit with FCT any insurance proceeds or any condemnation award and shall promptly commence to rebuild, replace, repair or restore the Project Site in such manner as is consistent with the Agreement. FCT shall make any such insurance proceeds or condemnation award moneys available to provide funds for such restoration work. In the event that the Recipient fails to commence or to complete the rebuilding, repair, replacement or restoration of the Project Site after notice from FCT, FCT shall have the right, in addition to any other remedies at law or in equity, to repair, restore, rebuild or replace the Project Site so as to prevent the occurrence of a default hereunder.

Notwithstanding any of the foregoing, FCT shall have the right to seek specific performance of any of the covenants and restrictions of this Agreement concerning the construction and operation of the Project Site.

VI. MANAGEMENT OF PROJECT SITE

1. The Project Site shall be managed only for the conservation, protection and enhancement of natural and historical resources and for compatible passive, natural resource-based public outdoor recreation, along with other related uses necessary for the accomplishment of this purpose. The proposed uses for the Project Site are specifically designated in the Management Plan approved by FCT.

2. The Recipient shall ensure that the future land use designation assigned to the Project Site is for a category dedicated to open space, conservation or outdoor recreation uses, as appropriate. If an amendment to the applicable comprehensive plan is required, the amendment shall be proposed at the next comprehensive plan amendment cycle available to the Recipient.

3. The Recipient shall ensure, and provide evidence thereof to FCT, that all activities under this Agreement comply with all applicable local, state, regional and federal laws and regulations, including zoning ordinances and the adopted and approved comprehensive plan for the jurisdiction, as applicable. Evidence shall be provided to FCT that all required licenses and permits have been obtained prior to the commencement of any construction.

4. The Recipient shall, through its agents and employees, prevent the unauthorized use of the Project Site or any use thereof not in conformity with the Management Plan approved by FCT.

5. FCT staff or its duly authorized representatives shall have the right at any time to inspect the Project Site and the operations of the Recipient at the Project Site.

6. All buildings, structures, improvements and signs shall require the prior written

approval of FCT as to purpose. Further, tree removal, other than non-native species, and major land alterations shall require the written approval of FCT. The approvals required from FCT shall not be unreasonably withheld by FCT upon sufficient demonstration that the proposed structures, buildings, improvements, signs, vegetation removal or land alterations will not adversely impact the natural resources of the Project Site. FCT's approval of the Recipient's Management Plan addressing the items mentioned herein shall be considered written approval from FCT.

7. If archaeological and historic sites are located on the Project Site, the Recipient shall comply with Chapter 267, Fla. Stat. The collection of artifacts from the Project Site or the disturbance of archaeological and historic sites on the Project Site shall be prohibited unless prior written authorization has been obtained from the Department of State, Division of Historical Resources.

8. As required by Rule 9K-7.013, F.A.C., each year after FCT reimbursement of Project Costs the Recipient shall prepare and submit to FCT an annual stewardship report that documents the progress made on implementing the Management Plan.

VII. SPECIAL MANAGEMENT CONDITIONS

The Management Plan for the project site is mentioned throughout this Agreement, and is particularly described in Section IV. above. In addition to the various conditions already described in this Agreement, which apply to all sites acquired with FCT funds, the Management Plan shall address the following conditions that are particular to the project site and result from either representations made in the application that received scoring points or observations made by the FCT staff during the site visit described in Rule 9K-7.009(1), F.A.C.:

1. Two or more resource-based outdoor recreational facilities including a canoe/kayak launch, picnic pavilions and trails shall be provided. The facilities shall be developed in a manner that allows the general public reasonable access for observation and appreciation of the environmental resources on the project site without causing harm to those resources.

2. Two or more user-oriented outdoor recreational facilities including playgrounds and ball fields shall be provided within 1,000 of the project site. Public walkways and pedestrian crossings shall be provided to allow for safe connection between the project site and user-oriented facilities within 1,000 feet of the project site. The facilities shall be located and designed to have minimal impacts on natural resources on the project site.

3. A permanent recognition sign, a minimum size of 3' x 4', shall be maintained in the entrance area of the project site. The sign shall acknowledge that the project site was purchased with funds from the Florida Communities Trust Program and the Recipient.

4. Interpretive signage shall be provided to educate visitors about the natural environment of the project site.

5. At least 12 regularly scheduled and ongoing educational classes or programs per year that promote the protection of environmental resources shall be provided at the project site.

6. A survey of the natural communities and plant species on the project site shall be conducted prior to the development of the project site. The survey shall be used during development of the site to ensure the protection, restoration, and preservation of the natural communities on the project site

7. The natural communities that occur on the project site shall be preserved and appropriately managed to ensure the long-term viability of these communities.

8. The project site shall be managed in a manner that will protect and enhance the listed and non-listed native wildlife species and their habitat. Periodic surveys shall be conducted of listed species using the project site.

9. The location and design of any parking facility shall be designed to have minimal impacts on natural resources. The parking area shall incorporate pervious materials wherever feasible.

10. The quality of surface waters shall be improved by the installation of stormwater facilities on the project site that provide wildlife habitat and/or open space in a park like setting. The development of the stormwater facilities shall be coordinated with the South Florida Water Management District.

11. Any proposed stormwater facility for the project site shall be designed to provide recreation open space or wildlife habitat.

12. A comprehensive landscaping plan will be developed for the project site. The landscaping plan will make significant use of native plants.

13. An ongoing monitoring and control program for invasive vegetation including exotic (non-native) and nuisance native plant species shall be implemented at the project site. The objective of the control program shall be the elimination of invasive exotic plant species and the maintenance of a diverse association of native vegetation. The management plan shall reference the Exotic Pest Plant Council's List of Florida's Most Invasive Species to assist in identifying invasive exotics on the project site.

14. A feral animal removal program shall be developed and implemented for the project site.

15. An archaeological survey shall be preformed for any area within the project site proposed for development prior to the commencement of proposed development activities in that

area. All planned activities involving known archaeological sites or identified site areas shall be closely coordinated with the Department of State, Division of Historical Resources in order to prevent the disturbance of significant sites. A protection plan shall be developed and implemented in conjunction with the Division of Historical Resources for the protection of known historic sites located on the project site.

16. Sidewalk access to the project site shall be provided that links the project site with adjacent residential neighborhoods.

17. Bike parking stands shall be installed at the project site to provide an alternative to automobile transportation to the project site.

18. The development and management of the project site shall be coordinated with the agencies managing the multi-jurisdictional recreational trails in Collier County, to ensure the project site is managed as part of a linked trail system.

19. The project site shall be protected and managed as part of an ecological corridor within the County's designated Gordon River Greenway.

VIII. OBLIGATIONS OF THE RECIPIENT RELATING TO THE USE OF BOND PROCEEDS

1. FCT is authorized by Section 380.510, Fla. Stat. to impose conditions for funding on the Recipient in order to ensure that the project complies with the requirements for the use of Florida Forever Bond proceeds including, without limitation, the provisions of the Internal Revenue Code and the regulations promulgated thereunder as the same pertain to tax exempt bonds.

2. The Recipient agrees and acknowledges that the below listed transactions, events, and circumstances, collectively referred to as the "disallowable activities," may be disallowed on the Project Site as they may have negative legal and tax consequences under Florida law and federal income tax law. The Recipient further agrees and acknowledges that these disallowable activities may be allowed up to a certain extent based on guidelines or tests outlined in the Federal Private Activity regulations of the Internal Revenue Service:

a. any sale or lease of any interest in the Project Site to a non-governmental person or organization;

b. the operation of any concession on the Project Site by a non-governmental person or organization;

c. any sales contract or option to buy or sell things attached to the Project Site to be severed from the Project Site with a non-governmental person or organization;

d. any use of the Project Site by a non-governmental person other than in such person's capacity as a member of the general public;

e. any change in the character or use of the Project Site from that use expected at the date of the issuance of any series of Bonds from which the disbursement is to be made;

f. a management contract for the Project Site with a non-governmental person or organization; or

g. such other activity or interest as may be specified from time to time in writing by FCT to the Recipient.

3. If the Project Site, after its acquisition by the Recipient and/or the Trustees, is to remain subject to any of the disallowable activities, the Recipient shall provide notice to FCT, as provided for in paragraph III.1. above, at least sixty (60) calendar days in advance of any such transactions, events or circumstances, and shall provide FCT such information as FCT reasonably requests in order to evaluate for approval the legal and tax consequences of such disallowable activities.

4. In the event that FCT determines at any time that the Recipient is engaging, or allowing others to engage, in disallowable activities on the Project Site, the Recipient shall immediately cease or cause the cessation of the disallowable activities upon receipt of written notice from FCT. In addition to all other rights and remedies at law or in equity, FCT shall have the right to seek temporary and permanent injunctions against the Recipient for any disallowable activities on the Project Site.

DELEGATIONS AND CONTRACTUAL ARRANGEMENTS BETWEEN THE RECIPIENT AND OTHER GOVERNMENTAL BODIES, NONPROFIT ENTITIES OR NON GOVERNMENTAL PERSONS FOR USE OR MANAGEMENT OF THE PROJECT SITE WILL IN NO WAY RELIEVE THE RECIPIENT OF THE RESPONSIBILITY TO ENSURE THAT THE CONDITIONS IMPOSED HEREIN ON THE PROJECT SITE AS A RESULT OF UTILIZING BOND PROCEEDS TO ACQUIRE THE PROJECT SITE ARE FULLY COMPLIED WITH BY THE CONTRACTING PARTY.

IX. RECORDKEEPING; AUDIT REQUIREMENTS

1. The Recipient shall maintain financial procedures and support documents, in accordance with generally accepted accounting principles, to account for the receipt and expenditure

of funds under this Agreement. These records shall be available at all reasonable times for inspection, review or audit by state personnel, FCT and other personnel duly authorized by FCT. "Reasonable" shall be construed according to the circumstances, but ordinarily shall mean the normal business hours of 8:00 a.m. to 5:00 p.m., local time, Monday through Friday.

2. If the Recipient expends a total amount of State financial assistance equal to or in excess of $500,000 in any fiscal year of such Recipient, the Recipient must have a State single or project-specific audit for such fiscal year in accordance with Section 215.97, Fla. Stat., the applicable rules of the Executive Office of the Governor and the Comptroller and Chapter 10.550 (local government entities) or Chapter 10.650 (nonprofit organizations), Rules of the Auditor General. In determining the State financial assistance expended in its fiscal year, the Recipient shall consider all sources of State financial assistance, including State funds received from FCT, other state agencies and other non-state entities. State financial assistance does not include Federal direct or pass-through awards and resources received by a non-state entity for Federal program matching requirements. The funding for this Agreement was received by FCT as a grant appropriation.

In connection with the audit requirements addressed herein, the Recipient shall ensure that the audit complies with the requirements of Section 215.97(7), Fla. Stat. This includes submission of a reporting package as defined by Section 215.97(2)(d), Fla. Stat. and Chapter 10.550 (local government entities) or 10.650 (nonprofit organizations), Rules of the Auditor General.

3. If the Recipient expends less than $500,000 in State financial assistance in its fiscal year, an audit conducted in accordance with the provisions of Section 215.97, Fla. Stat. is not required. If the Recipient elects to have an audit conducted in accordance with the provisions of Section 215.97, Fla. Stat., the cost of the audit must be paid from non-State funds (i.e., the cost of such an audit must be paid from Recipient funds not obtained from a State entity).

4. The annual financial audit report shall include all management letters, the Recipient's response to all findings, including corrective actions to be taken, and a schedule of financial assistance specifically identifying all Agreement and other revenue by sponsoring agency and agreement number. Copies of financial reporting packages required under this Article shall be submitted by or on behalf of the Recipient directly to each of the following:

Department of Community Affairs (at each of the following addresses):
Office of Audit Services
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

and

Florida Communities Trust
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

State of Florida Auditor General at the following address:
Auditor General's Office
Room 401, Claude Pepper Building
111 West Madison Street
Tallahassee, Florida 32302-1450

5. If the audit shows that any portion of the funds disbursed hereunder were not spent in accordance with the conditions of this Agreement, the Recipient shall be held liable for reimbursement to FCT of all funds not spent in accordance with the applicable regulations and Agreement provisions within thirty (30) days after FCT has notified the Recipient of such non-compliance.

6. The Recipient shall retain all financial records, supporting documents, statistical records and any other documents pertinent to this Agreement for a period of five years after the date of submission of the final expenditures report. However, if litigation or an audit has been initiated prior to the expiration of the five-year period, the records shall be retained until the litigation or audit findings have been resolved.

7. The Recipient shall have all audits completed in accordance with Section 215.97, Fla. Stat. performed by an independent certified public accountant ("IPA") who shall either be a certified public accountant or a public accountant licensed under Chapter 473, Fla. Stat. The IPA shall state that the audit complied with the applicable provisions noted above.

X. DEFAULT; REMEDIES; TERMINATION

1. If any essential term or condition of the Declaration of Restrictive Covenants is violated by the Recipient or by some third party with the knowledge of the Recipient, the Recipient shall be notified of the violation by written notice given by personal delivery, registered mail or registered expedited service. The recipient shall diligently commence to cure the violation or complete curing activities within thirty (30) days after receipt of notice of the violation. If the curing activities can not be reasonably completed within the specified thirty (30) day time frame, the Recipient shall submit a timely written request to the FCT Program Manager that includes the status of the current activity, the reasons for the delay and a time frame for the completion of the curing activities. FCT shall submit a written response within thirty (30) days of receipt of the request and approval shall not be unreasonably withheld. It is FCT's position that all curing activities shall be completed within one hundred twenty (120) days of the Recipient's notification of the violation. However, if the Recipient can demonstrate extenuating circumstances exist to justify a greater extension of time to complete the activities, FCT shall give the request due consideration. If the Recipient fails to correct the violation within either (a) the initial thirty (30) day time frame or (b) the time frame approved by FCT pursuant to the Recipient's request, fee simple title to all interest in the Project Site shall be conveyed to the Trustees unless FCT negotiates an agreement with another local government, nonprofit environmental organization, the Florida Division of Forestry, the Florida Fish

and Wildlife Conservation Commission, the Department of Environmental Protection or a Water Management District, who agrees to accept title and manage the Project Site. FCT shall treat such property in accordance with Section 380.508(4)(e), Fla. Stat.

XI. STANDARD CONDITIONS

1. This Agreement shall be construed under the laws of the State of Florida, and venue for any actions arising out of this Agreement shall lie in Leon County. If any provision hereof is in conflict with any applicable statute or rule, or is otherwise unenforceable, then such provision shall be deemed null and void to the extent of such conflict and shall be severable, but shall not invalidate any other provision of this Agreement.

2. No waiver by FCT of any right or remedy granted hereunder or failure to insist on strict performance by the Recipient shall affect or extend or act as a waiver of any other right or remedy of FCT hereunder, or affect the subsequent exercise of the same right or remedy by FCT for any further or subsequent default by the Recipient.

3. The Recipient agrees to comply with the Americans With Disabilities Act (Public Law 101-336, 42 U.S.C. Section 12101 et seq.), if applicable, which prohibits discrimination by public and private entities on the basis of disability in the areas of employment, public accommodations, transportation, State and local government services, and in telecommunications.

4. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime or on the discriminatory vendor list may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit lease bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with a public entity, and may not transact business with any public entity in excess of Category Two for a period of 36 months from the date of being placed on the convicted vendor list or on the discriminatory vendor list.

5. No funds or other resources received from FCT in connection with this Agreement may be used directly or indirectly to influence legislation or any other official action by the Florida Legislature or any state agency.

This Agreement including Exhibit "A" embodies the entire agreement between the parties.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement.

Witness:

Print Name: Amanda D. Townsend

Print Name: JANE McDONALD

COLLIER COUNTY, a political subdivision of the State of Florida

By: Marla Ramsey

Date: 6/26/07

Approved as to Form and Legality:

By:

Print Name: Robert N. Zachary

STATE OF FLORIDA
COUNTY OF COLLIER

The foregoing instrument was acknowledged before me this 26 day of JUNE, 2007, by MARLA RAMSEY on behalf of the Local Government, and who is personally known to me.

Notary Public

Print Name: KATHLEEN CARPENTER

Commission No.

My Commission Expires:

KATHLEEN CARPENTER
MY COMMISSION # DD 634080
EXPIRES: May 26, 2011
Bonded Thru Notary Public Underwriters

DRC\06-043-FF6
6/6/2007

Witness:

Print Name: John T. Sim

Print Name: GAYLE H. BRETT

FLORIDA COMMUNITIES TRUST

By: _____
Janice Browning, Director, Division of Housing and Community Development

Date: 6/29/07

Approved as to Form and Legality:
By: _____
Kristen L. Coons, Trust Counsel

STATE OF FLORIDA
COUNTY OF LEON

The foregoing instrument was acknowledged before me this 29th day of June, 2007, by **Janice Browning**, Director, Division of Housing and Community Development. She is personally known to me.

_____
Notary Public
Print Name: _____
Commission No. _____
My Commission Expires: _____

GAYLE H. BRETT
MY COMMISSION EXPIRES
October 6, 2010
#DD582495
Bonded Thru
Troy Fain-Insurance 800-385-7019
NOTARY PUBLIC, STATE OF FLORIDA

DRC\06-043-FF6
6/6/2007

DESCRIPTION

EXHIBIT "A"

All of Lot 97 of Naples Improvement Company's Little Farms, lying South of Golden Gate Parkway, according to the plat thereof recorded in Plat Book 2, at Page 2, Public Records of Collier County, Florida.

Less and Except the following Access Easement

The East 60 feet of that part of Lot 97 of Naples Improvement Company's Little Farms Subdivision, according to the plat thereof recorded in Plat Book 2, Page 2, in the Public Records of Collier County, lying south of Golden Gate Parkway and within Section 27, Township 49 South, Range 25 East, Collier County, Florida;

And

North 120 feet of the East 120 feet of Section 34, Township 49 South, Range 25 East, Collier County, Florida; being and lying within Lot 97 of Naples Improvement Company's Little Farms Subdivision, according to the plat thereof recorded in Plat Book 2, Page 2, in the Public Records of Collier County, Florida.

Together with:

The South 311.25 feet of Lot 3 of Naples Improvement Company's Little Farms, according to the plat thereof recorded in Plat Book 2, at Page 2, Public Records of Collier County, Florida.

Less and Except

That part of Lot 3 of Naples Improvement Company's Little Farms subdivision as per plat thereof recorded in plat Book 2, Page 2, Public Records of Collier County, Florida. Lying Easterly and Southerly of the following described line;

Commencing at a concrete monument at the South 1/4 corner of Section 27, Township 49 South, Range 25 East, Collier County, Florida;
Thence along the South line of said North 89°26'09" East 753.94 to a point; Thence South 00°21'55" East 334.85 feet to a concrete monument on the south line of said Lot #3 and the Point of beginning of the described line; Thence along said described line and the sterly boundary of the herein described parcel North 00°21'55" West 211.15 feet to ncrete monument at the Northwest corner of said described Parcel; Thence along said described line and the Northerly boundary of said described parcel North 89°38'05" East 729.90 feet to a concrete monument; Thence continue North 89°38'05" East 13.00 feet more or less to the Easterly boundary of Lot 3, NAPLES IMPROVEMENT CO'S LITTLE FARMS and the Point of Ending of said described Line.

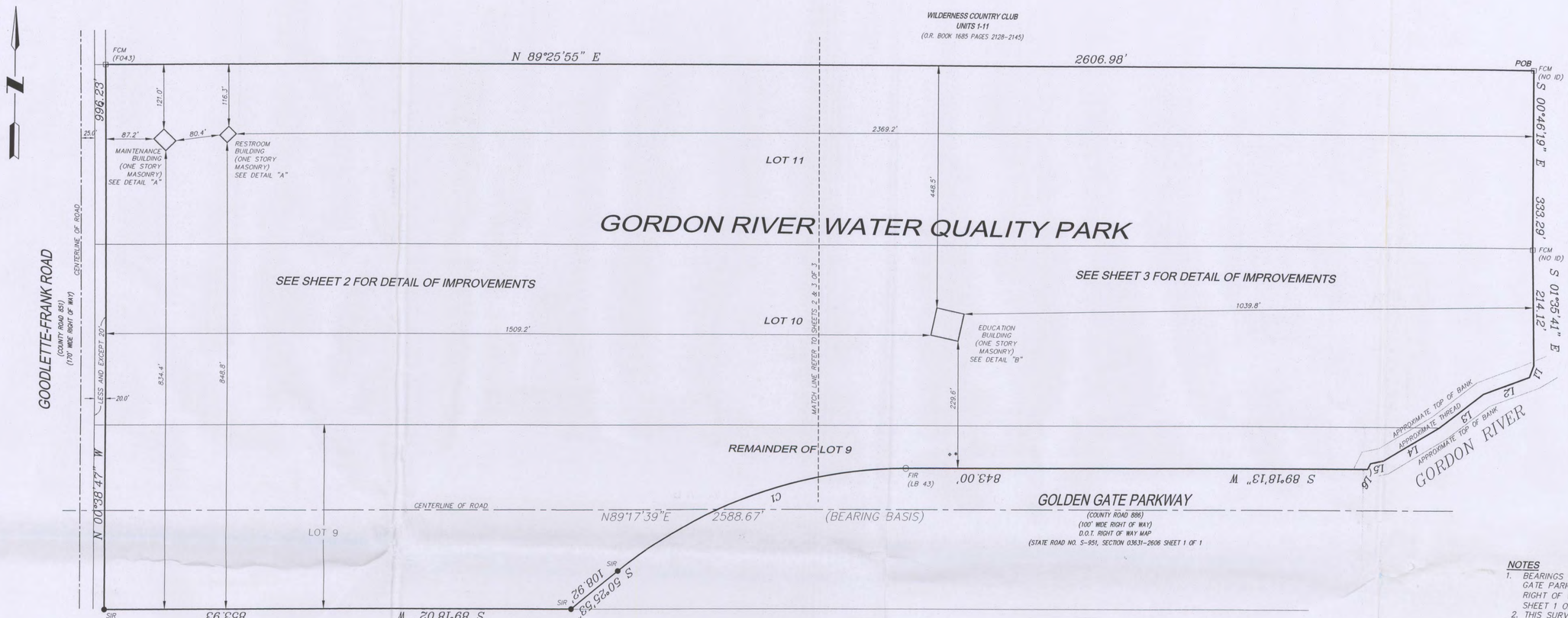
And

A portion of Lot 6, Naples Improvement Company's Little Farms, according to the plat thereof recorded in Plat Book 2, at Page 2, Public Records of Collier County, Florida. Being more particularly described as follows:

Beginning at the Northwest corner of said Lot 6, run South along the West line of said Lot 6 for 60 feet; thence run East parallel with the North lot line of said Lot 6 for 983 feet; thence run South parallel with and 50 feet (measured to right angles) North of the South line of said Lot 6; thence run East parallel with said South line for 717 feet, more or less, to the waters of Gordon River Canal; thence run Northeasterly for 280 feet, more or less, along the waters of said Canal to the North line of said Lot 6; thence run West along the said North line of Lot 6 for 1,697 feet, more or less, to the point of beginning.

Less and Except

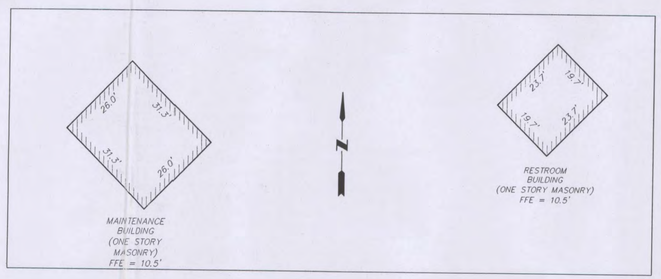
The Westerly 20 feet of Lot 6, Naples Improvement Company's Little Farms, according to the plat thereof recorded in Plat Book 2, at Page 2, Public Records of Collier County, Florida. As Described in Official Records Book 66, page 432 of the Public Records of Collier County, Florida



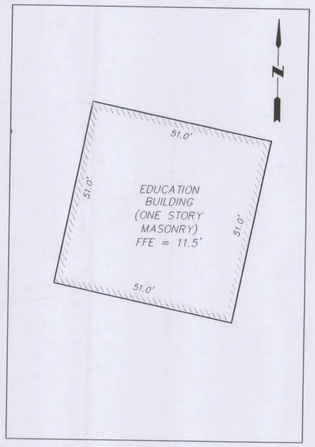
RECEIVED
JUN 29 2011
LWC SERVICE CENTER

LINE TABLE		
LINE	BEARING	LENGTH
L1	S 19°44'10" W	22.16'
L2	S 68°47'07" W	89.80'
L3	S 52°00'25" W	101.40'
L4	S 58°35'22" W	117.67'
L5	S 77°21'09" W	25.39'
L6	S 28°10'25" W	11.42'

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD	BEARING
C1	837.95'	568.50'	38°52'20"	557.66'	S 69°52'03" W



DETAIL "A"
SCALE: 1" = 20'



DETAIL "B"
SCALE: 1" = 20'

LANDS CURRENTY OR FORMERLY OF ORION BANK
(O.R. BOOK 3773 PAGE 1287)

LEGEND

P.O.B. = POINT OF BEGINNING
R.O.W. = RIGHT-OF-WAY
O.R. = OFFICIAL RECORDS BOOK
PG(S) = PAGE(S)
FFE = FINISHED FLOOR ELEVATION
FCM = FOUND CONCRETE MONUMENT
FIR = FOUND IRON ROD
SIR = SET IRON ROD
SPK = SET PARKER KALON NAIL
WV = WATER VALVE
FV = FIRE VALVE
FH = FIRE HYDRANT
PRV = PRESSURE VALVE
CI = CURB INLET
CB = CATCH BASIN
WCS = WATER CONTROL STRUCTURE
CO = SANITARY CLEANOUT
FDC = FIRE DEPARTMENT CONNECTION
BFP = BACKFLOW PREVENTOR
FFE = FINISHED FLOOR ELEVATION
MES = MITERED END SECTION
ESB = ELECTRIC SERVICE BOX
ARV = AIR RELEASE VALVE
IRR = IRRIGATION
SAN = SANITARY
INV. = INVERT
PS = PUMP STATION
AFV = AUTOMATIC FLUSH VALVE
FPL = FLORIDA POWER & LIGHT TRANSFORMER
DRAIN
FOUND CONCRETE MONUMENT
FOUND IRON ROD
SET CONCRETE MONUMENT
SET 5/8" IRON ROD WITH CAP, L.B. #5151
SET PARK KALON NAIL
CLEAN OUT
VALVE
FIRE HYDRANT
ELECTRIC SERVICE BOX
UNITED TELEPHONE SERVICE
+9.60 TOP OF PIPE ELEVATION
+9.60 EXISTING ELEVATION
MITERED END SECTION
CONCRETE
CATCH BASIN
BRICK PAVERS
WOOD
W WATER MAIN/SERVICE
FM FORCEMAIN

0' 50' 100' 200'
SCALE: 1" = 100'

NOT COMPLETE WITHOUT SHEETS 1 THROUGH 3

PROPERTY DESCRIPTION

A PORTION OF THE PARCEL DESCRIBED IN O.R. BOOK 3534 AT PAGES 1753-1754 OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA; BEING

ALL THOSE PORTIONS OF LOTS 9, 10, & 11 NAPLES IMPROVEMENT CO'S LITTLE FARMS ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 2, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA, LYING NORTHERLY OF THE NORTH RIGHT-OF-WAY OF GOLDEN GATE PARKWAY PER OFFICIAL RECORD BOOK 2053, PAGE 1687.
LESS THE ADDITIONAL 20 FEET OF RIGHT-OF-WAY OF GOODLETTE-FRANK ROAD. LESS ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 876, PAGE 1716 AND OFFICIAL RECORD BOOK 876, PAGE 1718. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 11; THENCE RUN SOUTH 00°46'19" EAST, FOR A DISTANCE OF 333.29 FEET; THENCE RUN SOUTH 01°35'41" EAST, FOR A DISTANCE OF 214.12 FEET TO THE POINT OF INTERSECTION WITH THE THREAD OF GORDON RIVER; THENCE MEANDERING ALONG THE THREAD OF THE GORDON RIVER FOR THE FOLLOWING 6 CALLS;
1. SOUTH 19°44'10" WEST, FOR A DISTANCE OF 22.16 FEET
2. SOUTH 68°47'07" WEST, FOR A DISTANCE OF 89.80 FEET;
3. SOUTH 52°00'25" WEST, FOR A DISTANCE OF 101.40 FEET;
4. SOUTH 58°35'22" WEST, FOR A DISTANCE OF 117.67 FEET;
5. SOUTH 77°21'09" WEST, FOR A DISTANCE OF 25.39 FEET;
6. SOUTH 28°10'25" WEST, FOR A DISTANCE OF 11.42 FEET; TO THE INTERSECTION WITH THE NORTH RIGHT OF WAY LINE OF GOLDEN GATE PARKWAY PER RIGHT OF WAY MAP FOR STATE ROAD S-951, SECTION 03631-2606; THENCE RUN ALONG SAID RIGHT OF WAY LINE FOR THE FOLLOWING THREE CALLS;
1. SOUTH 89°18'13" WEST, FOR A DISTANCE OF 843.00 FEET TO THE BEGINNING OF A TANGENTIAL CIRCULAR CURVE CONCAVE SOUTH;
2. WESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, HAVING A RADIUS OF 837.95 FEET; THROUGH A CENTRAL ANGLE OF 38°52'20"; SUBTENDED BY A CHORD OF 557.66 FEET AT A BEARING OF SOUTH 69°52'03" WEST, FOR AN ARC LENGTH OF 568.50 FEET TO THE END OF SAID CURVE;
3. THENCE RUN SOUTH 50°25'53" WEST, FOR A DISTANCE OF 108.92 FEET;
THENCE RUN SOUTH 89°18'02" WEST, FOR A DISTANCE OF 853.93 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF GOODLETTE ROAD; THENCE RUN ALONG SAID EAST RIGHT-OF-WAY LINE NORTH 00°38'47" WEST, FOR A DISTANCE OF 996.23 FEET TO A POINT ON THE NORTH LINE OF SAID LOT 11; THENCE RUN ALONG SAID NORTH LINE NORTH 89°25'55" EAST, FOR A DISTANCE OF 2,606.98 FEET TO THE POINT OF BEGINNING.

CONTAINING 49.7618 ACRES, MORE OR LESS.

NOTES

1. BEARINGS SHOWN HEREON REFER TO THE CENTERLINE OF GOLDEN GATE PARKWAY PER THE FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP (STATE ROAD S-951, SECTION 03631-2606, SHEET 1 OF 1) AS BEING N 89°17'39" E.
2. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF ABSTRACT OF TITLE AND MAY BE SUBJECT TO EASEMENTS, RESERVATIONS AND/OR RESTRICTIONS OF RECORD. ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.
3. VERTICAL DATUM IS NGVD 1929; SOURCE BENCHMARK IS A NATIONAL GEODETIC SURVEY (N.G.S.) MONUMENT: Q 416 (PID: AD8330) HAVING AN ELEVATION OF 13.19' (N.G.V.D. 29).
4. THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE AE (BASE FLOOD ELEVATION 8.3 NAVD) AND ZONE X (AREAS OF 500 YEAR FLOOD) PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP #12021C 0391 G, DATED NOVEMBER 17, 2005. HAVING A FIRM INDEX DATED NOVEMBER 17, 2005.
5. THERE ARE NO VISIBLE IMPROVEMENTS OTHER THAN THOSE SHOWN HEREON. CERTAIN FEATURES REPRESENTED BY SYMBOLS MAY NOT BE SHOWN AT THEIR TRUE LOCATION AND/OR SCALE IN ORDER TO BE ABLE TO DEPICT THEM ON THIS MAP.
6. DIMENSIONS SHOWN HEREON ARE IN U.S. SURVEY FEET AND DECIMALS THEREOF.
7. THIS SURVEY DOES NOT ADDRESS ANY ENVIRONMENTAL CONCERNS, ENDANGERED WILDLIFE OR JURISDICTIONAL WETLANDS, IF ANY, EXCEPT AS SHOWN ON THIS SURVEY.
8. THIS CERTIFICATION IS ONLY FOR THE LANDS DESCRIBED HEREON. IT IS NOT A CERTIFICATION OF TITLE, ZONING, SETBACKS, OR FREEDOM OF ENCUMBRANCES.
9. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A LICENSED FLORIDA SURVEYOR AND MAPPER. NO ADDITIONS OR DELETIONS TO THIS SURVEY MAP ARE PERMITTED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING PARTY.
10. DATE OF LAST FIELD WORK: 11/30/09.
11. WETLAND B SOUNDINGS TAKEN ON 1/16/08. WETLAND C SOUNDINGS TAKEN ON 1/22/08. WETLAND D SOUNDINGS TAKEN ON 2/4/08.
12. REFER TO SHEETS 2 AND 3 OF 3 FOR LOCATIONS OF OTHER IMPROVEMENTS.
13. COORDINATES SHOWN HEREON ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, NATIONAL GEODETIC SURVEY ADJUSTMENT OF 1999 AND ARE IN UNITED STATES SURVEY FEET.

CERTIFIED TO:
COLLIER COUNTY

DRAWN BY:	DLS				
CHECKED BY:	KJG				
JOB CODE:	GRQP	5	11/30/09	ADD COORDINATES TO UTILITIES, CHANGE TEXT LABELS, ADD INVERT INFO (PER KRAFT)	DLS
SCALE:	1" = 100'	4	9/2/09	ADD COORDINATES TO STRUCTURE TABLES, ADDED WATERLINE AND WATER METER LOCATIONS	DLS
DATE:	5/21/09	3	6/12/09	ADDED LAKE SOUNDINGS, PIPE RUNS BETWEEN STRUCTURES, CHANGED SURVEYOR OF RECORD	DLS
FILE:	C-3705-6	2	6/02/09	ADDED HANDICAPPED RAMPS AT FRONT ENTRY	DLS
SHEET:	1 OF 3	1	5/19/09	ADDED ADDITIONAL IMPROVEMENTS AND CHANGED FOR NEW SURVEYOR OF RECORD	DLS 687	25,31-34 MH
		CREATED	1/15/09	CREATED FOUNDATION AS-BUILT SURVEY	DLS 681	45 MH
		REVISION	DATE	DESCRIPTION	BY	FIELD BOOK

Q. GRADY MINOR & ASSOCIATES, P.A.
CIVIL ENGINEERS ■ LAND SURVEYORS ■ PLANNERS ■ LANDSCAPE ARCHITECTS
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FORT MYERS: 11940 FAIRWAY LAKES DR. FT. MYERS, FL 33913 (239) 690-4380
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ENGINEERING CERT. OF AUTH. EB 0005151 SURVEYING CERT. OF AUTH. LB 0005151 LANDSCAPE ARCH. BUSINESS LV 26000266
www.gradyminor.com

FINAL AS-BUILT SURVEY

PREPARED FOR:
KRAFT CONSTRUCTION COMPANY
GORDON RIVER WATER QUALITY PARK
NAPLES, FLORIDA 34102

SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST
COLLIER COUNTY, FLORIDA

12/2/09

RANDALL HENDRA
FLORIDA PSM #6091
FOR THE FIRM

P:\PROJECTS SURVEY 2009\GORDON RIVER FINAL AS-BUILT SURVEY\DWG\C-3705-6.DWG

STRUCTURE TABLE							
		INVERTS				STATEPLANE COORDINATES	
STRUCTURE	TOP	NORTH	SOUTH	EAST	WEST	NORTHING	EASTING
CB S-503	6.72'	–	–	3.87'	–	669466.5	396808.7
CB S-504	6.69'	–	–	2.68'	2.79'	669468.4	397106.1
CB S-513	6.74'	3.48'	–	–	–	669581.2	396676.4
CB S-516	5.79'	–	–	–	2.07'	669492.7	397394.8
CB S-519	8.76'	–	–	5.75'	6.84'	669941.8	396669.4
*CB S-104	9.41'	–	–	1.79'	6.84'	670130.2	396619.3
*CB S-97A	10.32'	–	–	6.45'	–	669942.1	396613.3
CB 1	8.41'	–	4.00'	–	–	670271.3	396850.9
CB 2	7.61'	2.80'	-1.55'	–	–	670129.9	396819.0
CB 6	6.04'	3.21'	–	–	–	669636.0	397679.3
MH 1	10.01'	–	0.79'	–	1.65'	670076.9	397852.6
MH 2	11.52'	–	–	0.86'	0.96'	670048.2	397597.4
MH 3	11.01'	–	–	0.95'	1.03'	670084.6	397432.8
MH 4	9.49'	–	1.02'	0.39'	–	670211.2	396943.1
MH 5	8.92'	–	–	2.57'	2.22'	669612.7	397946.5
MH 6	5.91'	1.88'	1.84'	–	–	669653.7	397851.8
*MH S-518	8.16'	–	-3.75'	–	-3.29	670128.2	396658.9
SAN. PS #1	9.61'	–	–	6.29'	6.28'	670148.4	396725.6
SAN. PS #1	9.61'	–	–	–	6.16'		
SAN. PS #1	9.61'	–	–	–	PLUGGED		
IRR. PS	10.25'	1.86'	6.90'	–	–	670029.3	396679.2
IRR. PS	10.25'	–	7.06'	–	–		
CONTROL WEIR	7.67'	2.27'	1.92'			670283.84	396664.12

* DENOTES PRE EXISTING STRUCTURE. AS-BUILT INFORMATION TAKEN FROM CONSTRUCTION PLANS PREPARED BY CHZMHILL PROJECT NO. 331560, VOLUME 3 OF 3, DATED JUNE 20, 2007.

UTILITIES TABLE			
		STATEPLANE COORDINATES	
NUMBER	TYPE	NORTHING	EASTING
1	BFP	670193.7	396665.8
2	FV	670193.7	396661.2
3	WV	670193.5	396653.7
4	WM	670189.0	396662.6
5	ESB	670143.6	396694.4
6	FH	670279.8	396769.2
7	FV	670276.9	396771.7
8	BFP	669476.6	396821.0
9	TH	669498.0	397037.3
10	FV	669500.2	397036.3
11	VALVE	669691.3	397671.1
12	SV	670285.9	396627.8
13	ARV	670282.7	396627.8
14	ESB	670259.2	396632.1
15	SV	670151.8	396632.5

LEGEND

P.O.B. = POINT OF BEGINNING
R.O.W. = RIGHT-OF-WAY
O.R. = OFFICIAL RECORDS BOOK
PG(S) = PAGE(S)
FFE = FINISHED FLOOR ELEVATION
FCM = FOUND CONCRETE MONUMENT
FIR = FOUND IRON ROD
SIR = SET IRON ROD
SPK = SET PARKER KALON NAIL
WV = WATER VALVE
FV = FIRE VALVE
FH = FIRE HYDRANT
PRV = PRESSURE VALVE
CI = CURB INLET
CB = CATCH BASIN
WCS = WATER CONTROL STRUCTURE
CO = SANITARY CLEANOUT
FDC = FIRE DEPARTMENT CONNECTION
BFP = BACKFLOW PREVENTOR
FFE = FINISHED FLOOR ELEVATION
MES = MITERED END SECTION
ESB = ELECTRIC SERVICE BOX
ARV = AIR RELEASE VALVE
IRR. = IRRIGATION
SAN = SANITARY
INV. = INVERT
PS = PUMP STATION
AFV = AUTOMATIC FLUSH VALVE
FPL = FLORIDA POWER & LIGHT TRANSFORMER
SV = SANITARY VALVE

- DRAIN
- FOUND CONCRETE MONUMENT
- FOUND IRON ROD
- SET CONCRETE MONUMENT
- SET 5/8" IRON ROD WITH CAP, L.B. #5151
- SET PARK KALON NAIL
- CLEAN OUT — +9.60 TOP OF PIPE ELEVATION
- VALVE — +9.60 EXISTING ELEVATION
- FIRE HYDRANT
- ELECTRIC SERVICE BOX
- UNITED TELEPHONE SERVICE
- MITERED END SECTION — CONCRETE
- CATCH BASIN
- BRICK PAVERS — WOOD
- W — WATER MAIN/SERVICE
- FM — FORCEMAIN

0' 25' 50' 100'
SCALE: 1" = 50'

NOT COMPLETE WITHOUT SHEETS 1 THROUGH 3

REVISION	DATE	DESCRIPTION	BY	FIELD BOOK
4	9/2/09	ADD COORDINATES TO STRUCTURE TABLES, ADDED WATERLINE AND WATER METER LOCATIONS	DLS	
3	8/12/09	ADDED LAKE SOUNDINGS, PIPE RUNS BETWEEN STRUCTURES, CHANGED SURVEYOR OF RECORD	DLS	
2	6/02/09	ADDED HANDICAPPED RAMPS AT FRONT ENTRY		
1	5/19/09	ADDED ADDITIONAL IMPROVEMENTS AND CHANGED FOR NEW SURVEYOR OF RECORD	DLS	581\26,31-34 MH
CREATED	1/15/09	CREATED FOUNDATION AS-BUILT SURVEY	DLS	581\45 MH

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FINAL AS-BUILT SURVEY

PREPARED FOR:

KRAFT CONSTRUCTION COMPANY
GORDON RIVER WATER QUALITY PARK
NAPLES, FLORIDA 34102

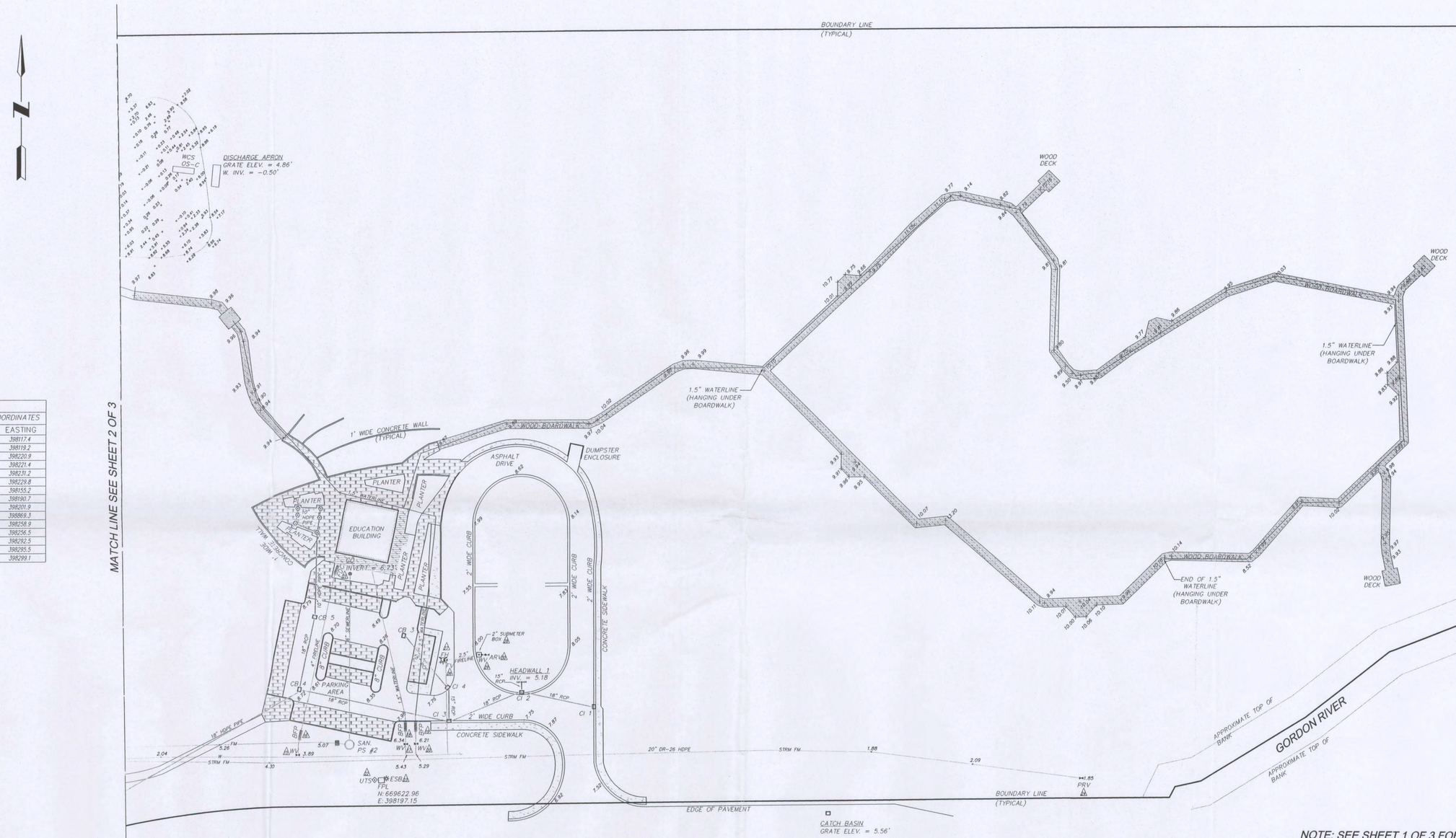
SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST
COLLIER COUNTY, FLORIDA

DRAWN BY:	DLS
CHECKED BY:	KJG
JOB CODE:	GRQP
SCALE:	1" = 50'
DATE:	5/21/09
FILE:	C-3705-6
SHEET:	2 OF 3

S:\PROJECTS\SURVEY 2009\GORDON RIVER FINAL AS-BUILT SURVEY\DWG\C-3705-6.DWG

MATCH LINE SEE SHEET 3 OF 3

NOTES: SEE SHEET 1 OF 3 FOR NOTES AND BOUNDARY DIMENSIONS



MATCH LINE SEE SHEET 2 OF 3

NOTE: SEE SHEET 1 OF 3 FOR NOTES AND BOUNDARY DIMENSIONS

UTILITIES TABLE			
		STATEPLANE COORDINATES	
NUMBER	TYPE	NORTHING	EASTING
1	WV	669647.3	398117.4
2	BFP	669666.6	398119.2
3	WV	669656.9	398220.9
4	BFP	669673.1	398221.4
5	BFP	669673.2	398231.2
6	WV	669656.7	398229.8
7	FDC	669823.6	398155.2
8	UTS	669623.1	398190.7
9	ESB	669624.4	398201.9
10	PRV	669621.6	398869.3
11	FV	669736.6	398258.9
12	FH	669736.9	398256.5
13	WM	669741.2	398292.5
14	WV	669741.3	398293.5
15	ARV	669741.2	398299.1

STRUCTURE TABLE							
		INVERTS				STATEPLANE COORDINATES	
STRUCTURE	TOP	NORTH	SOUTH	EAST	WEST	NORTHING	EASTING
CI 1	7.91'	–	–	–	3.95'	669691.1	398401.0
CI 2	7.29'	4.23'	–	3.80'	3.65'	669705.3	398332.0
CI 3	7.64'	3.43	–	3.31'	3.39'	669678.8	398262.0
CI 4	7.63'	3.81'	3.75'	–	–	669710.4	398260.8
CB 3	8.00'	–	–	4.17'	–	669759.6	398218.9
CB 4	8.64'	2.79'	–	2.93'	2.89'	669709.2	398118.1
CB 5	8.47'	–	3.32'	3.37'	–	669777.7	398133.6
SAN. PS #2	9.73'	4.07'	–	–	4.77'	669657.2	398166.6
WCS 05-C	9.01'	6.01'	6.01'	2.31'	5.51'	670204.7	398008.0

LEGEND

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- W WATER MAIN/SERVICE
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0' 25' 50' 100'
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NOT COMPLETE WITHOUT SHEETS 1 THROUGH 3

REVISION	DATE	DESCRIPTION	BY	FIELD BOOK
4	9/2/09	ADD COORDINATES TO STRUCTURE TABLES, ADDED WATERLINE AND WATER METER LOCATIONS	DLS	
3	6/12/09	ADDED LAKE SOUNDINGS, PIPE RUNS BETWEEN STRUCTURES, CHANGED SURVEYOR OF RECORD	DLS	
2	6/02/09	ADDED HANDICAPPED RAMPS AT FRONT ENTRY		
1	5/19/09	ADDED ADDITIONAL IMPROVEMENTS AND CHANGED FOR NEW SURVEYOR OF RECORD	DLS	587\25,31-34 MH
CREATED	1/15/09	CREATED FOUNDATION AS-BUILT SURVEY	DLS	581\45 MH

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FINAL AS-BUILT SURVEY

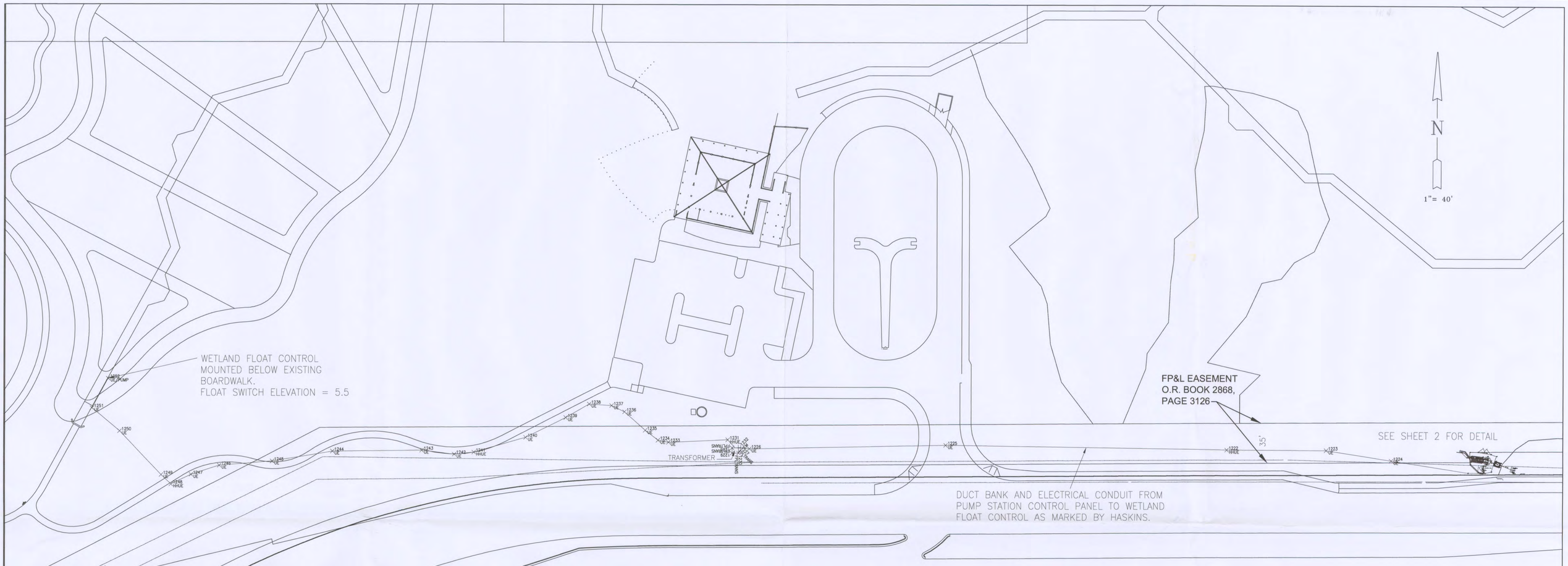
PREPARED FOR:

KRAFT CONSTRUCTION COMPANY
GORDON RIVER WATER QUALITY PARK
NAPLES, FLORIDA 34102

SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST
COLLIER COUNTY, FLORIDA

DRAWN BY:	DLS
CHECKED BY:	KJG
JOB CODE:	GRQP
SCALE:	1" = 50'
DATE:	5/21/09
FILE:	C-3705-6 FOR CD
SHEET:	3 OF 3

S:\PROJECTS SURVEY 2009\GORDON RIVER FINAL AS-BUILT SURVEY\DWG\C-3705-6 FOR CD.DWG



Number	Northing	Easting	Raw Desc
1222	669624.1159	398639.2553	HHUE
1223	669623.8336	398728.6490	UE
1224	669614.8402	398787.0989	UE
1225	669627.7715	398386.5938	UE
1226	669624.4507	398209.7012	UE
1227	669625.3349	398199.9294	FPLTRANS
1228	669625.1680	398194.1240	FPLTRANS
1229	669620.5783	398194.2443	FPLTRANS
1230	669620.5999	398200.0237	FPLTRANS
1231	669632.2728	398190.2230	HHUE
1232	669625.0822	398201.9949	EM
1233	669630.0999	398136.8696	UE
1234	669631.8413	398127.5980	UE
1235	669640.4120	398115.9916	UE
1236	669656.6391	398097.3614	UE
1237	669662.1495	398085.7425	UE
1238	669663.4030	398065.6577	UE
1239	669651.4167	398044.3984	UE
1240	669634.1594	398008.5687	UE
1241	669621.1159	397962.0000	HHUE
1242	669619.2618	397944.4526	UE
1243	669622.6465	397915.1625	UE
1244	669621.7069	397834.6098	UE
1245	669612.9220	397780.3459	UE
1246	669609.1998	397732.8230	UE
1247	669600.9485	397707.4397	UE
1248	669592.5096	397689.3347	HHUE
1249	669600.8441	397680.5350	UE
1250	669639.3899	397643.1507	UE
1251	669659.7892	397618.3388	UE
1252	669685.9351	397632.8063	UE/PUMP

GORDON RIVER WATER QUALITY PARK
SECTION 17, TOWNSHIP 50 SOUTH, RANGE 26 EAST
COLLIER COUNTY, FLORIDA

LEGEND

X = AS-BUILT LOCATIONS

GENERAL NOTES:

1. DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
2. BEARINGS ARE BASED ON STATE PLANE COORDINATES FLORIDA EAST ZONE 83/90 DATUM.
3. ELEVATIONS ARE BASED ON SFWMD BENCHMARK AG27SE9/1980 ELEVATION = 4.34 NGVD29 DATUM.
4. THE PURPOSE OF THIS SURVEY WAS TO AS-BUILT THE LOCATION OF THE PUMP STATION AND THE DUCT BANK TO THE FLOAT CONTROL. OTHER IMPROVEMENTS SHOWN HEREON WERE NOT FIELD LOCATED AND ARE FOR REFERENCE PURPOSES ONLY.

CERTIFIED TO:
HASKINS INC.

DATE OF FIELD SURVEY: OCTOBER 12, 2010

AGNOLI, BARBER & BRUNDAGE, INC.
PROFESSIONAL ENGINEERS, PLANNERS & SURVEYORS AND MAPPERS

BY_____
GUY P. ADAMS P.L.S. NO. 4390

THIS AS-BUILT SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN CHAPTER 5J17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

THIS AS-BUILT SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTIES WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES IS PROHIBITED BY CHAPTER 61G17-6 (2)(E) FLORIDA ADMINISTRATIVE CODE.

approved:

revision:
11/10/10 ADDED FLOAT SWITCH ELEV.

for: HASKINS INC.

title: AS-BUILT SURVEY OF
GORDON RIVER PARK PUMP STATION
SECTION 17, TOWNSHIP 50 SOUTH, RANGE 26 EAST
COLLIER COUNTY, FLORIDA

AGNOLI BARBER & BRUNDAGE, INC.

bk:	pg:	date:
985	57-59	OCT. 22, 2010
		scale: 1"= 40'
		cogo #: COGO

Professional engineers, planners, & land surveyors Fax: (239)566-2203
Collier County: Suite 200, 7400 Tamiami Trail, North; Naples, FL 34108 (239)597-3111
Certificate of Authorization Nos. LB 3664 and EB 3664 Fax: (239)498-2726

design:
drawn: GPA
checked:
acad #: 10464-AS
view: LIMITS
project #: 10-1000-GPA
sheet #: 1 of 2
file #: 10464

Number	Northing	Easting	Elevation	Raw Desc
1182	669617.7515	398858.7542	0.00	6IN-BFP-1
1183	669617.3393	398868.8535	0.00	6IN-BFP-2
1184	669614.8775	398868.6825	0.00	6IN-BFP-3
1185	669615.1834	398864.4422	0.00	6IN-BFP-90-4
1186	669617.3082	398864.4079	0.00	6IN-BFP-TEE-5
1187	669613.0611	398885.7992	5.44	CB1
1188	669609.6313	398884.5832	5.44	CB2
1189	669611.3215	398879.9924	5.44	CB3
1190	669614.9758	398881.2778	5.44	CB4
1191	669610.9247	398869.8552	0.00	CONTROLPANEL1
1192	669607.1366	398869.7465	0.00	CONTROLPANEL2
1193	669609.0159	398898.5316	0.00	END-WALL-1
1194	669608.7642	398897.1995	0.00	END-WALL-2
1195	669606.8593	398896.4873	2.15	END-WALL-3
1196	669605.2529	398895.8372	0.00	END-WALL-4
1197	669604.2478	398896.6399	0.00	END-WALL-5
1198	669611.4619	398884.8798	-0.84	INV-1
1199	669613.0747	398880.9576	-0.82	INV-2
1200	669614.1967	398876.3258	-0.79	INV-3
1201	669620.8865	398876.6728	0.00	L1
1202	669619.0911	398881.8055	0.00	L2
1203	669605.4124	398876.9666	0.00	L3
1204	669604.1789	398871.2685	0.00	L4
1205	669604.8120	398865.2127	0.00	L5
1206	669611.7754	398858.0002	0.00	L6
1207	669622.7045	398857.9148	0.00	L7
1208	669622.7138	398865.0963	0.00	L8
1209	660475.3817	401512.4890	0.00	NAPL
1210	669615.2583	398876.8383	5.44	WW1
1211	669619.2082	398873.7451	5.44	WW2
1212	669616.1268	398869.7260	5.44	WW3
1213	669612.1541	398872.5903	5.44	WW4
1214	669606.8593	398896.4873	-0.75	INV 24" RCP
1215	669615.7060	398873.1718	-1.71	BOTTOM WET WELL
1216	669613.8033	398868.9801	0.00	CONC
1217	669618.6717	398869.3165	0.00	CONC
1218	669619.1319	398858.6818	0.00	CONC
1219	669614.1735	398858.3761	0.00	CONC
1220	669622.6865	398850.2326	0.00	FM45
1221	669618.0705	398854.9208	0.00	FM45
1254	669604.2645	398855.8326	0.00	UE

NORTH

0' 2' 4'

SCALE : 1"=2'

1220 FM45
1207 L7
1208 L8
CHAINLINK FENCE
1201 L1
1202 L2
1221 FM45
1218 CONC
1182 6IN-BFP-1
1217 CONC
1186 6IN-BFP-TEE-5
1183 6IN-BFP-2
CONCRETE SLAB
6" PIPES
1211 WW2
WET WELL
1212 WW3
1215 BOTTOM WET WELL
1210 WW1
1185 6IN-BFP-90-4
1184 6IN-BFP-3
1219 CONC
1216 CONC
1200 INV-3
1213 WW4
24" RCP
1190 CB4
1199 INV-2
1187 CB1
INLET
1189 CB3
1198 INV-1
1188 CB2
1206 L6
1191 CONTROLPANEL1
CONTROL PANEL
1192 CONTROLPANEL2
24" RCP
1194 END-WALL-2
1193 END-WALL-1
1214 INV 24" RCP
1196 END-WALL-4
1197 END-WALL-5
1254 UE
1205 L5
1204 L4
203 L3
EXISTING HEADWALL
EXISTING SIDEWALK

COLLIER COUNTY

GORDON RIVER
WATER QUALITY PARK

PUMP STATION DETAIL

revision:

approved:

for: HASKINS INC.

title: AS-BUILT SURVEY OF
GORDON RIVER PARK PUMP STATION
SECTION 17, TOWNSHIP 50 SOUTH, RANGE 26 EAST
COLLIER COUNTY, FLORIDA

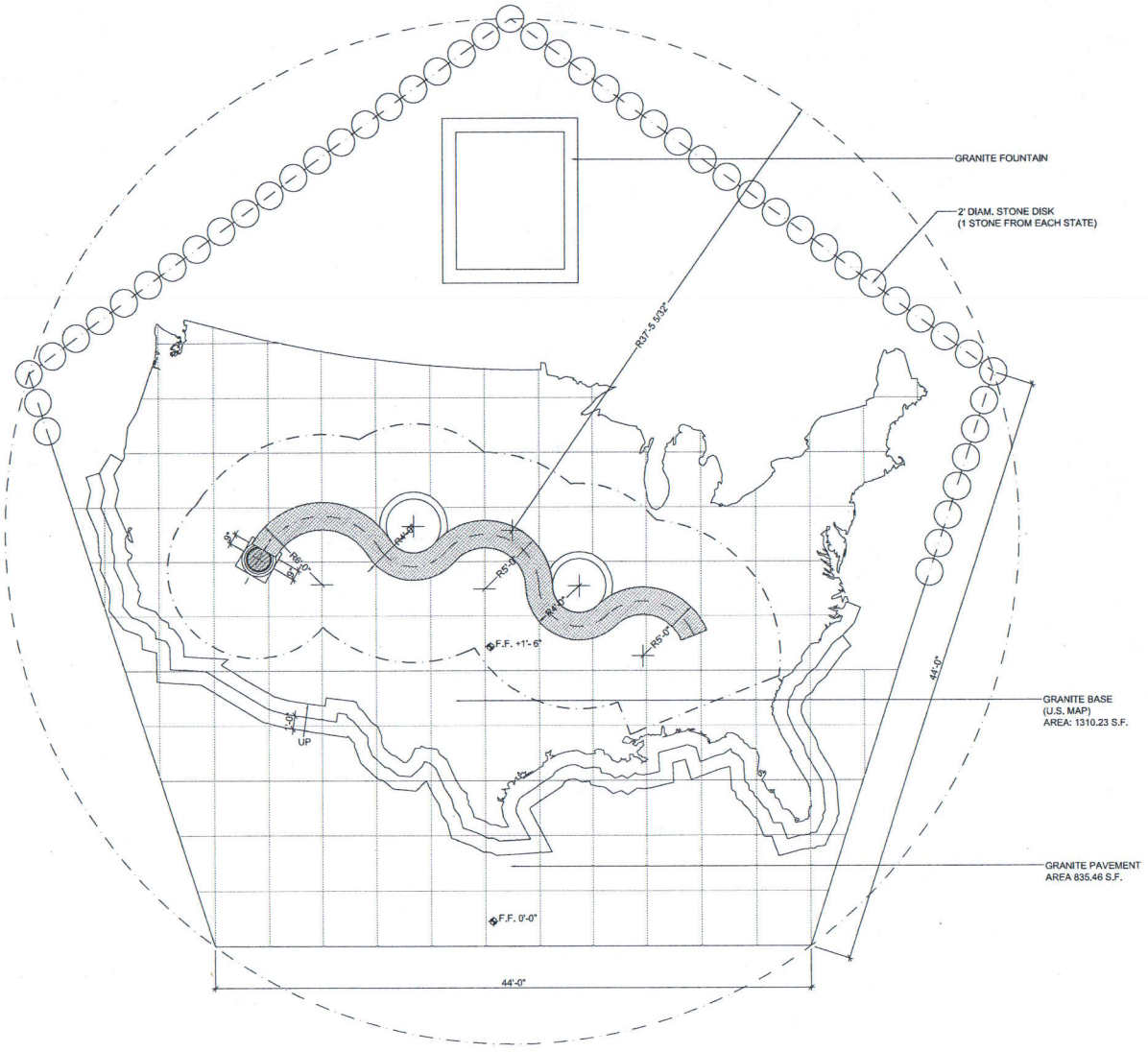
AGNOLI BARBER & BRUNDAGE, INC.

bk: 985 pg: 57
date: OCT. 11, 2010
scale: 1"= 2'
cogo #: COGO

Professional engineers, planners, & land surveyors Fax: (239)566-2203
Collier County: Suite 200, 7400 Tamiami Trail, North; Naples, FL 34108 (239)597-3111
Certificate of Authorization Nos. LB 3664 and EB 3664 Fax: (239)495-2720

design:
drawn: GPA
checked:
acad #: 10464-AS
view: LIMITS
project #: 10-1009-GPA
sheet #: 2 of 2
file #: 10464

Exhibit G-2



1 **Floor Plan**
Scale: 1/4" = 1'-0"

BSSW ARCHITECTS, INC.
INNOVATION AND PERFORMANCE IN ARCHITECTURE AND PLANNING
1520 Royal Palm Square Boulevard, Suite 300
Fort Myers, Florida 33919
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Phone: 239-275-3838 Fax: 239-275-5356
949 Central Avenue
Naples, Florida 34102
License #AA C001863
Phone: 239-643-3103 Fax: 239-643-7435

Consultant:

Project:
FREEDOM MEMORIAL

Owner:
COLLIER COUNTY

Mark	Date	Description

Project Number: 0530
Owner Approval:

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Sheet Title:
FLOOR PLAN

Sheet Number:
A102

S:\+projects\0530 Freedom memorial\CADA-102.dwg, 9/8/2005 10:49:24 AM

From: Hoffert, Angelica
To: Alonso, Tammy
Subject: FW: Gordon River Greenway Park Benchmarks
Date: Tuesday, October 14, 2014 10:30:24 AM
Attachments: 11107-UTIL-AB.PDF

Tammy,

Please post email and attachment.

Thank you,

Angelica S. Hoffert, P.E.
Enviromental Resource Compliance
ph. 338-2929 ext 7731 fx. 338-2936
ahoffert@sfwmd.gov

From: Daniel Flynn [mailto:dflynn@gradyminor.com]
Sent: Friday, October 10, 2014 3:04 PM
To: Nagle, Steven
Cc: Michael Delate; Hoffert, Angelica
Subject: Gordon River Greenway Park Benchmarks

Mr. Nagle,

Per your request I've attached the as built survey of the Gordon River Greenway Park that shows all the bench marks set in all the control structures for your records. Below are the two permits that are covered by this as built survey.

1. Permit No. 11-03344-P, Application No. 130918-12 and 110617-17
2. Permit No. 11-03152-P, Application No. 120921-4

If you need any additional information from me please let me know.

Thanks,

Daniel Flynn, P.E.
Project Manager
GradyMinor
3800 Via Del Rey
Bonita Springs, FL 34134
Phone - 239.947.1144
Fax - 239.947.0375
Web - http://www.gradyminor.com

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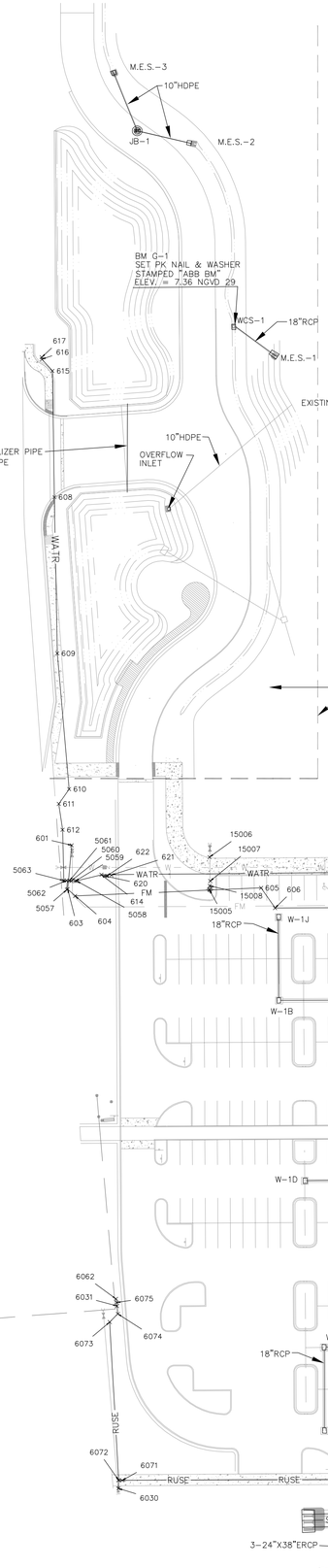
Please consider the environment before printing this email

ASBUILT SURVEY OF GORDON RIVER GREENWAY PARK AND ZOO ENTRANCE



ELEVATION NOTE:
ALL ELEVATIONS FOR THE ENTIRE SITE ARE NAVD-88 (PER PLAN) EXCEPT FOR THE ZOO ENTRANCE WHICH IS NGVD-29 (PER PLAN)

POINT TABLE- WATER ASBUILTS				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
608	667775.97	396668.50	4.94	TOP 6" WATER
609	667663.58	396670.53	4.88	TOP 6" WATER
610	667565.83	396679.08	4.06	TOP 6" 45°/WATER
611	667555.22	396671.61	5.96	TOP 6" 45°/WATER
612	667536.52	396674.40	3.52	TOP 6" WATER
614	667504.20	396702.28	3.07	TOP 4" WATER
615	667866.95	396667.01	5.93	TOP 6" WATER
616	667877.67	396659.50	6.81	TOP 6" GV/WATER
617	667876.70	396659.34	5.63	TOP 6"X6" TEE/WATER
5057	667493.44	396677.46	6.86	6" BLOW-OFF WATER
5058	667499.74	396684.47	3.00	TOP 4" 45° WATER
5059	667499.64	396683.45	1.93	TOP 4" 45°/ WATER
5060	667499.75	396680.54	1.89	TOP 4" 45°/ WATER
5061	667499.84	396679.24	2.71	TOP 4" 45°/ WATER
5062	667500.03	396677.28	3.75	TOP 6" GV/WATER
5063	667500.05	396675.22	3.09	TOP 6" 90°/ WATER
6168	667509.53	397278.39	2.67	TOP 4" 45°/WATER
6169	667455.46	397337.88	2.88	TOP 4" 45°/WATER
6170	667324.79	397339.05	3.31	TOP 4" 45°/WATER
6171	667311.34	397353.05	3.84	TOP 4" 45°/WATER
6173	667312.92	397532.69	3.35	TOP 4"X2" TEE/WATER
6174	667312.78	397533.02	3.57	TOP 2" GV/WATER
6175	667312.82	397539.28	3.76	TOP 2" GV/WATER
6176	667311.61	397554.24	5.22	(GRND) 2" CHECK VALVE
6177	667363.67	397812.42	8.92	(GRND) 2" WATER/END
6178	667387.59	397685.01	3.43	TOP 2" 45°/WATER
6407	669120.00	399220.65	2.66	TOP 8" GV/WATER
6408	669116.20	399217.45	2.65	TOP 8" 45°/WATER
6409	669115.35	399178.82	2.61	TOP 8" 90°/WATER
6410	669108.95	399179.31	2.77	TOP 8" 90°/WATER METER
6411	669108.76	399169.84	2.75	DETECTOR CHECK ASSY.
6412	669108.09	399161.87	2.14	DETECTOR CHECK ASSY.
6413	669107.37	399108.31	1.85	TOP 8" WATER
6414	669106.28	399046.92	2.15	TOP 8" WATER
6415	669105.41	399004.09	3.02	TOP 8" 45°/WATER
6416	669108.25	399001.34	3.60	TOP 8" 45°/WATER
6417	669125.09	399001.42	3.65	TOP 8" GV/WATER
6418	669127.14	399001.56	3.71	FIRE HYDRANT
12071	669474.30	399186.87	-2.38	TOP 24"X12" TEE/WATER
22004	669472.32	399186.21	3.82	TOP 12" GV/WATER
22010	669125.31	399220.36	3.11	TOP 12" 45°/WATER
22011	669122.72	399223.24	3.03	TOP 12"X8" TEE/WATER
22012	669120.71	399225.32	2.94	TOP 12" 45°/WATER
22013	669117.89	399228.05	-0.41	TOP 12" 45°/WATER
22014	669112.70	399233.36	1.44	TOP 12"GV/WATER
22016	669107.04	399238.57	1.42	TOP 12" BLOWOFF/WATER
22036	669445.90	399212.48	1.57	TOP 12" 45°/WATER
22037	669462.34	399188.58	1.09	TOP 12" 45°/WATER
22038	669467.50	399186.63	4.61	TOP 12" 45°/WATER
5012	669173.34	398917.88	3.12	TOP WATER VALVE
5015	669151.55	398925.08	3.26	TOP WATER VALVE
5017	669268.69	398914.97	3.52	WATER SERVICE
620	667503.31	396704.81	0.00	WATER METER
621	667503.95	396709.53	0.00	BACK FLOW PREVENTOR
622	667503.33	396706.19	0.00	BACK FLOW PREVENTOR

POINT TABLE-SEWER ASBUILTS				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
601	667525.42	396680.92	7.22	TIE-IN FM. 4" GV/SEWER
603	667493.85	396678.02	1.86	TOP 2" 45°/SEWER
604	667488.90	396683.37	1.87	TOP 2" 45°/SEWER
605	667494.76	396817.32	2.83	TOP 2" 45°/SEWER
606	667480.27	396827.36	2.42	TOP 2" 45°/SEWER
4999	669482.00	398953.52	-0.45	TOP 8" 45°/SEWER
5000	669485.92	398958.30	2.33	TOP 8" 45°/SEWER
5001	669487.05	399149.65	1.96	TOP 8" 45°/SEWER
5002	669486.53	399151.93	0.75	TOP 8" 45°/SEWER
5003	669485.42	399171.37	1.76	TOP 8" 45°/SEWER
5004	669485.80	399173.05	2.50	TOP 8" 45°/SEWER
5005	669487.78	399285.39	2.15	TOP 8" 45°/SEWER
5006	669483.70	399291.21	-1.30	TOP 8" 45°/SEWER
5019	669485.05	399244.09	2.50	TOP 4" GV/SEWER
5020	669487.49	399241.35	3.10	TOP 8" GV/SEWER
5021	669487.66	399246.75	3.30	TOP 8" GV/SEWER
5066	669168.74	399188.14	0.91	TOP 2" 45°/SEWER
5067	669167.71	399186.20	1.03	TOP 2" 45°/SEWER
5068	669147.26	399185.73	1.19	TOP 2" 45°/SEWER
5069	669142.62	399181.65	2.15	TOP 2" 45°/SEWER
5070	669120.97	399035.11	3.58	TOP 2" 45°/SEWER
6151	667248.56	397366.39	2.49	TOP 2" SEWER
6153	667249.86	397325.74	3.30	TOP 2" 45°/SEWER
6154	667286.22	397283.22	2.98	TOP 2" 45°/SEWER
6161	667331.36	397282.39	3.20	TOP 2" SEWER
6165	667460.71	397282.11	3.30	TOP 2" 45°/SEWER
6166	667483.98	397255.70	3.65	TOP 2" 45°/SEWER
6167	667481.12	397055.02	4.01	TOP 2" SEWER
22005	669467.02	399244.51	1.65	TOP 4" SEWER
22009	669135.71	399267.81	0.00	END 4" SEWER
22032	669153.93	399248.90	0.62	TOP 4" 45°/SEWER
22033	669169.52	399249.45	1.07	TOP 4"X4"X2" TEE/SEWER
22034	669169.56	399248.39	1.40	TOP 2" GV/SEWER
22035	669368.64	399245.83	1.12	TOP 4" SEWER
6434	667283.80	397501.77	8.05	CORNER VALVE VAULT
6435	667283.53	397498.46	8.05	CORNER VALVE VAULT
6436	667281.01	397498.63	8.07	CORNER VALVE VAULT
6437	667281.33	397501.97	8.05	CORNER VALVE VAULT
6442	667282.88	397505.40	8.40	C/L PUMP STATION
6443	667289.65	397504.90	7.48	CLEAN-OUT
5013	669186.47	398918.80	-2.00	CLEAN-OUT
5014	669139.48	398898.47	4.61	CLEAN-OUT
5016	669270.60	398909.81	4.84	CLEAN-OUT
5018	669186.55	398926.48	8.01	C/L PUMP STATION
6216	669184.77	398923.19	7.97	CORNER VALVE VAULT
6217	669182.21	398921.04	7.99	CORNER VALVE VAULT
6218	669180.57	398922.93	8.01	CORNER VALVE VAULT
6219	669183.27	398925.07	7.96	CORNER VALVE VAULT
6212	667247.40	397499.40	0.00	TOP 2" SEWER

POINT TABLE-REUSE WATER ASBUILTS				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
6030	667062.45	396714.65	5.31	TOP 8" GV/REUSE
6031	667193.73	396713.58	3.49	TOP 8" GV/REUSE
6062	667198.86	396712.91	3.54	TOP 8" GV/REUSE
6063	667089.24	397234.01	0.00	FIRE HYDRANT
6064	667085.62	397237.68	3.83	TOP 6" GV/REUSE
6065	667082.97	397236.39	4.12	TOP 8" GV/REUSE
6066	667070.57	397223.52	2.77	TOP 8" 45°/REUSE
6067	667070.23	397045.15	2.61	TOP 8" REUSE
6068	667080.06	396909.62	6.58	FIRE HYDRANT
6069	667075.73	396909.25	4.19	TOP 6" GV/REUSE
6070	667068.89	396909.21	3.02	TOP 8"X6" TEE/REUSE
6071	667068.30	396717.35	5.15	TOP 8" GV/REUSE
6072	667068.36	396714.74	4.09	TOP 8"X8" TEE/REUSE
6073	667182.16	396708.31	2.30	TOP 8" 45°/REUSE
6074	667188.12	396714.16	2.04	TOP 8" 45°/REUSE
6075	667196.29	396713.33	2.32	TOP 8"X8" TEE/REUSE
6162	667337.55	397297.23	4.29	TOP 6" GV/REUSE
6163	667337.78	397296.36	3.76	TOP 8"X6"TEE/REUSE
6164	667338.08	397316.61	4.52	FIRE HYDRANT
6172	667144.47	397298.53	2.93	TOP 8" 45°/REUSE
15005	667493.32	396780.16	5.34	FIRE HYDRANT
15006	667516.94	396780.20	5.06	TOP 6"G/V WATER
15007	667499.65	396780.63	2.40	TOP 6"45°/WATER
15008	667496.26	396780.28	3.92	TOP 6"45°/WATER

SOUTH PARKING
(ELEV.= NAVD-88)

W-1
M.E.S.
INV.=-0.60'(P) -0.61'(F)

W-1A
GRATE=5.5'(P) 5.45'(F)
N. INV.=2.88'(P) 2.81'(F)
W. INV.=1.64'(P) 1.65'(F)
S. INV.=0.17'(P) 0.10'(F)
E. INV.=-0.33'(P) -0.45'(F)

W-1B
GRATE=5.5'(P) 5.54'(F)
N. INV.=2.88'(P) 2.86'(F)
E. INV.=2.38'(P) 2.36'(F)

W-1C
GRATE=5.5'(P) 5.45'(F)
N. INV.=0.43'(P) 0.45'(F)
W. INV.=2.26'(P) 2.13'(F)
S. INV.=0.93'(P) 0.75'(F)

W-1D
GRATE=5.5'(P) 5.48'(F)
INV.=3.00'(P) 2.96'(F)

W-1E
GRATE=5.5'(P) 5.46'(F)
S. INV.=2.88'(P) 2.82'(F)
W. INV.=1.67'(P) 1.58'(F)
N. INV.=1.17'(P) 1.06'(F)

W-1F
GRATE=5.5'(P) 5.47'(F)
INV.=3.00'(P) 2.93'(F)

W-1G
GRATE=5.5'(P) 5.52'(F)
S. INV.=2.88'(P) 2.87'(F)
E. INV.=2.38'(P) 2.38'(F)

W-1H
GRATE=5.5'(P) 5.50'(F)
INV.=3.00'(P) 2.97'(F)

M.E.S.-C
NW. INV.=1.90'(P) 2.02'(F)
CW. INV.=1.90'(P) 1.94'(F)
SW. INV.=1.90'(P) 1.94'(F)
NE. INV.=1.90'(P) 2.00'(F)
CE. INV.=1.90'(P) 2.10'(F)
SE. INV.=1.90'(P) 2.08'(F)

W-1I
GRATE=5.5'(P) 5.48'(F)
INV.=3.0'(P) 3.04'(F)

W-1J
GRATE=5.5'(P) 5.58'(F)
INV.=3.00'(P) 3.05'(F)

W-2
M.E.S.
INV.=3.0'(P) 3.12'(F)

W-2A
GRATE=5.5'(P) 5.52'(F)
INV.=3.0'(P) 3.12'(F)

M.E.S.-A
INV.=1.3'(P) 1.31'(F)

M.E.S.-B
INV.=1.3'(P) 1.28'(F)

W-3
M.E.S.
INV.=3.0'(P) 3.11'(F)

W-3A
GRATE=5.5'(P) 5.52'(F)
INV.=3.0'(P) 3.06'(F)

OVERFLOW WEIR
TOP=4.90'(P) 4.89'(F)

NORTH NODE
(ELEV.= NAVD-88)

WCS-1 NORTH NODE
GRATE=5.60'(P) 5.58'(F)
INV.=0.00'(P) -1.70'(F)
3" BLEED DOWN INV.=4.60'(P) 4.54'(F)

M.E.S.-1
INV.=1.0'(P) 1.03'(F)

STORM MANHOLE-1
RIM= 5.70'(P) 5.18'(F)
E. INV.=-1.50'(P) -1.60'(F)
W. INV.= 1.00'(P) 0.83'(F)
N. INV.=-1.50'(P) -1.52'(F)

E-1A
GRATE=6.10'(P) 5.99'(F)
INV.=3.0'(P) 2.94'(F)

M.E.S. E-1
INV.= 0.0'(P)2.46'(F)

M.E.S.-E
INV.= 0.0'(P) 2.49'(F)

M.E.S. E-2
INV.= 0.0'(P) 2.42'(F)

E-2A
GRATE=5.50'(P) 5.50'(F)
INV.=3.0'(P) 3.08'(F)

OUTFALL CONTROL STR.
GRATE=4.90'(P) 4.76'(F)
INV.=-2.20'(P) -2.47'(F)

STORM MANHOLE-2
RIM= 2.30'(P) 2.25'(F)
N. INV.=-1.50'(P) -1.61'(F)
S. INV.= 1.00'(P) -1.53'(F)

WATER QUALITY TREATMENT STR.
TOP=4.10'(P) 4.34'(F)
OUTFALL WEIR=1.70'(P) 2.28'(F)
INLET INV.=0.50'(P) 0.59'(F)
OUTLET INV.=-1.50'(P) -1.47'(F)

ZOO ENTRANCE
(ELEV.= NGVD-29)

WCS-1
GRATE=X.X(P) 7.40'(F)
INV.=3.0'(P) 3.10'(F)
3" BLEED DOWN INV.=5.50'(P) 5.55'(F)

M.E.S.-1
INV.=3.0'(P) 2.91'(F)

OVERFLOW INLET
GRATE=6.0'(P) 6.01'(F)
INV.=3.0'(P) 3.04'(F)

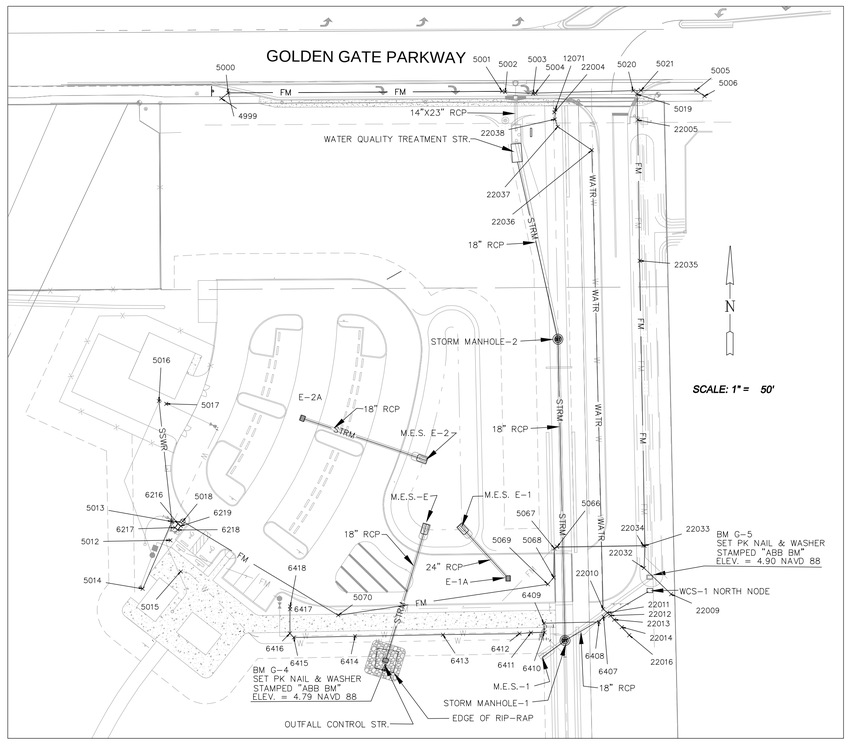
JB-1
GRATE=8.38'(P) 8.40'(F)
N. INV.=6.0'(P) 6.02'(F)
E. INV.=6.0'(P) 6.00'(F)

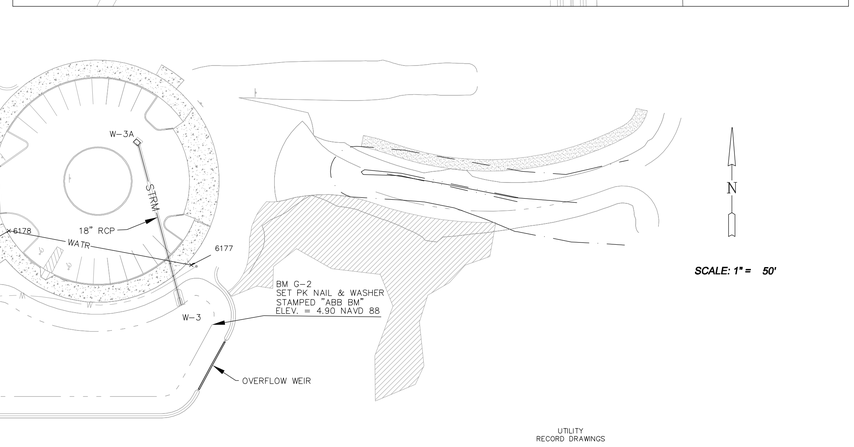
M.E.S.-2
INV.=6.0'(P) 5.98'(F)

M.E.S.-3
INV.=6.0'(P) 5.97'(F)

EXISTING POND
INV.=2.50'(P) 2.05'(F)

EQUALIZER PIPE
N. INV.=0.0'(P) 3.86'(F)
S. INV.=0.0'(P) 3.89'(F)





SYMBOLS LEGEND

STRM = STORM
FM = FORCEMAIN
WATR = WATERMAIN
RUSE = WATERMAIN REUSE
SSWR = SANITARY SEWER
= STORM MANHOLE

UTILITY
RECORD DRAWINGS

WAYNE D. AGNOLI, R.S.M. NO. 5335 DATE

THESE RECORD DRAWINGS ARE INTENDED TO DISPLAY THE COMPLETED WORK SUBSTANTIALLY AS CONSTRUCTED. THEY ARE BASED ON FIELD SURVEY DATA FURNISHED BY AGNOLI, BARBER & BRUNDAGE, INC.

approved:

revision:

for: COLLIER COUNTY

title: ASBUILT SURVEY OF
GORDON RIVER GREENWAY PARK AND ZOO ENTRANCE
PART OF SECTIONS 27 AND 34,
TOWNSHIP 49 SOUTH, RANGE 25 EAST
COLLIER COUNTY, FLORIDA

AGNOLI BARBER & BRUNDAGE, INC.
Professional engineers, planners, & land surveyors Fax: (239)566-2203
Collier County: Suite 200, 7400 Tamiami Trail, North; Naples, FL 34108 (239)597-3111
Certificate of Authorization Nos. LB 3664 and EB 3664

bk:	pg:
date:	13 AUG, 2014
scale:	1"=50'
cogo #:	13-0060

design:	XXX
drawn:	VA
checked:	WDA
acad #:	11107-AB
view:	LIMITS
project #:	13-0060
sheet #:	1 of 1
file #:	11107

N:\Land Projects\13-0060 GORDON RIVER GREENWAY PARK\dwg\11107-AB.dwg, 10/9/2014 9:11:43 AM, 1:1

Exhibit G-4

PLANT SCHEDULE WEST NODE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	AG	10	ANNONA GLABRA	POND APPLE	F.G.	1.75" CAL MIN	10' HT MIN
	BS	6	BURSERA SIMARUBA	GUMBO LIMBO	F.G.	2" CAL MIN	14' HT MIN
	CD	16	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	F.G.	1.75" CAL MIN	10' HT MIN
	CG	13	CONOCARPUS ERECTUS	BUTTONWOOD	F.G.	1.75" CAL MIN	10' HT MIN
	DR	5	DELONIX REGIA	ROYAL POINCIANA	F.G.	1.75" CAL MIN	10' HT MIN
	JM	2	JACARANDA MIMOSIFOLIA	JACARANDA	F.G.	4" CAL	10' HT MIN
	QV	73	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	F.G.	4" CAL	12' HT MIN
	RE	32	ROYSTONEA ELATA	FLORIDA ROYAL PALM	F.G.		10' CT MIN
	SP	56	SABAL PALMETTO	CABBAGE PALMETTO	F.G.		VARIES, 10' CT MIN
	WC	8	SENNA BICAPSULARIS	CASSIA	F.G.	1.75" CAL MIN	10' HT MIN
	SM	8	SWIETENIA MAHAGONI	WEST INDIAN MAHOGANY	F.G.	1.75" CAL MIN	10' HT MIN
	TD	33	TAXODIUM DISTICHUM	BALD CYPRESS	F.G.	1.75" CAL MIN	10' HT MIN

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
	AE	347	ARACHIS GLABRATA 'ECOTURF'	PERENNIAL PEANUT	1 GAL		12" FULL
	AI	227	ASCLEPIAS INCARNATA	SWAMP MILKWEED	3 GAL		18" FULL
	CH	139	CHRYSOBALANUS ICACO 'HORIZONTAL'	HORIZONTAL COCOPLUM	3 GAL		18" FULL
	CI	147	CHRYSOBALANUS ICACO 'RED TIP'	RED TIP COCOPLUM	3 GAL		18" FULL
	FS	144	FORESTIERA SEGREGATA	FLORIDA PRIVET	7 GAL		36" HT MIN
	HC	583	HAMELIA PATENS 'COMPACTA'	DWARF SCARLET BUSH	3 GAL		18" FULL
	HD	794	HELIANTHUS DEBILIS	CUCUMBERLEAF SUNFLOWER	1 GAL		12" FULL
	MC	613	MUHLENBERGIA CAPILLARIS	PINK MUHLY	1 GAL		12" FULL
	MF	20	MYRCIANTHES FRAGRANS	COMPACT SIMPSON'S STOPPER	7 GAL		36" HT MIN
	SR	80	SERENOA REPENS	SAW PALMETTO	7 GAL		24" HT MIN
	SB	91	SPARTINA BAKERI	SAND CORDGRASS	1 GAL		12" FULL
	VO	92	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	7 GAL		36" HT MIN
	ZF	479	ZAMIA FLORIDANA	COONTIE PALM	3 GAL		12" FULL

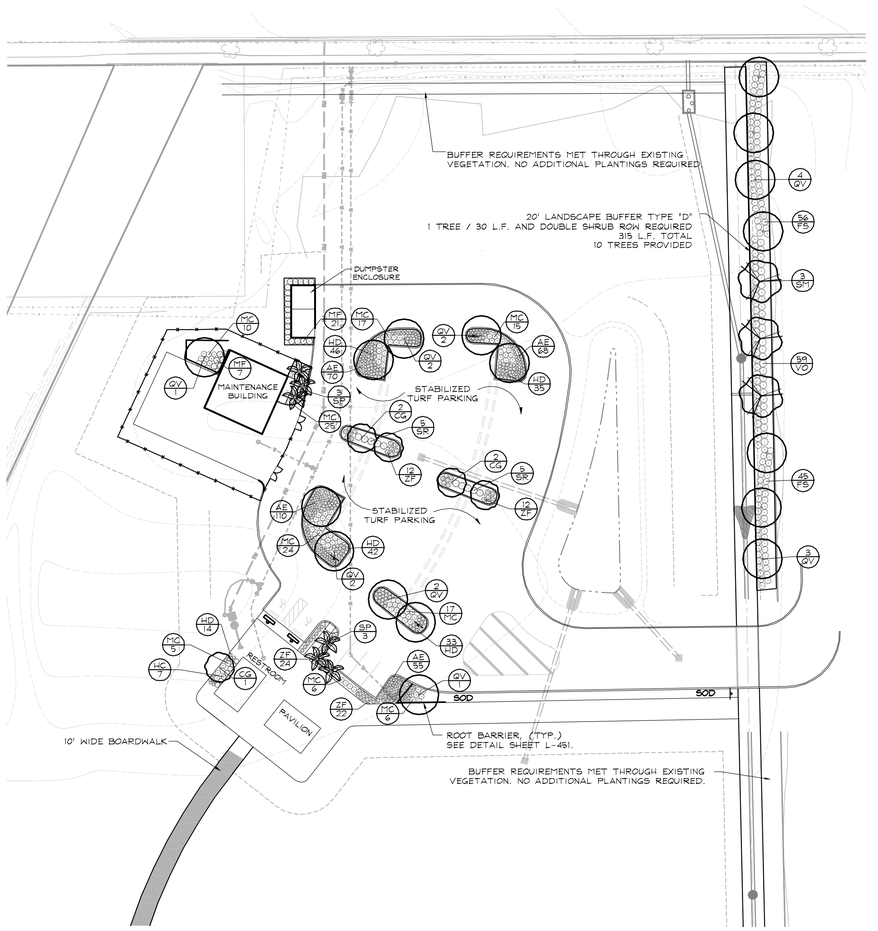
PLANT SCHEDULE FOR NORTHEAST NODE

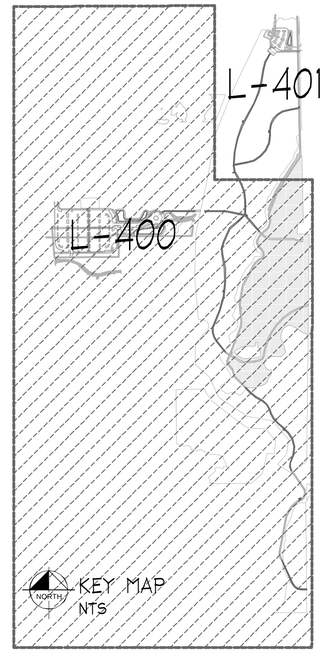
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	CG	5	CONOCARPUS ERECTUS	BUTTONWOOD	F.G.	1.75" CAL MIN	10' HT MIN
	QV	17	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	F.G.	4" CAL	12' HT MIN
	SP	6	SABAL PALMETTO	CABBAGE PALMETTO	F.G.		VARIES, 10' CT MIN
	SM	3	SWIETENIA MAHAGONI	WEST INDIAN MAHOGANY	F.G.	1.75" CAL MIN	10' HT MIN

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
	AE	303	ARACHIS GLABRATA 'ECOTURF'	PERENNIAL PEANUT	1 GAL		12" FULL
	FS	101	FORESTIERA SEGREGATA	FLORIDA PRIVET	7 GAL		36" HT MIN
	HC	7	HAMELIA PATENS 'COMPACTA'	DWARF SCARLET BUSH	3 GAL		18" FULL
	HD	170	HELIANTHUS DEBILIS	CUCUMBERLEAF SUNFLOWER	1 GAL		12" FULL
	MC	125	MUHLENBERGIA CAPILLARIS	PINK MUHLY	1 GAL		12" FULL
	MF	26	MYRCIANTHES FRAGRANS	COMPACT SIMPSON'S STOPPER	7 GAL		36" HT MIN
	SR	10	SERENOA REPENS	SAW PALMETTO	7 GAL		24" HT MIN
	VO	59	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	7 GAL		36" HT MIN
	ZF	70	ZAMIA FLORIDANA	COONTIE PALM	3 GAL		12" FULL

PLANT SCHEDULE SPREADER SWALE

SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
	PH	584	PANICUM HEMITOMON	MAIDENCANE	4"POT@ 48" OC	6" FULL
	SB2	381	SPARTINA BAKERI	SAND CORDGRASS	4"POT@ 48" OC	6" FULL





NOTES:
1. SEE CIVIL PLANS FOR DETAILS EXTENTS OF STABILIZED TURF PARKING.

0 40 80
SCALE FEET

NORTH

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

90% PLANS

No.	REVISIONS	DATE	BY

Kimley-Horn and Associates, Inc.

© 2011 KIMLEY-HORN AND ASSOCIATES, INC.
2601 CATTLEMEN ROAD, SUITE 200, SARASOTA, FL 34232
PHONE: 941-379-7600 FAX: 941-379-4352
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148075.000
DATE JANUARY, 2012
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY CDC
CHECKED BY CMH

GORDON RIVER GREENWAY PARK
COLLIER COUNTY FLORIDA

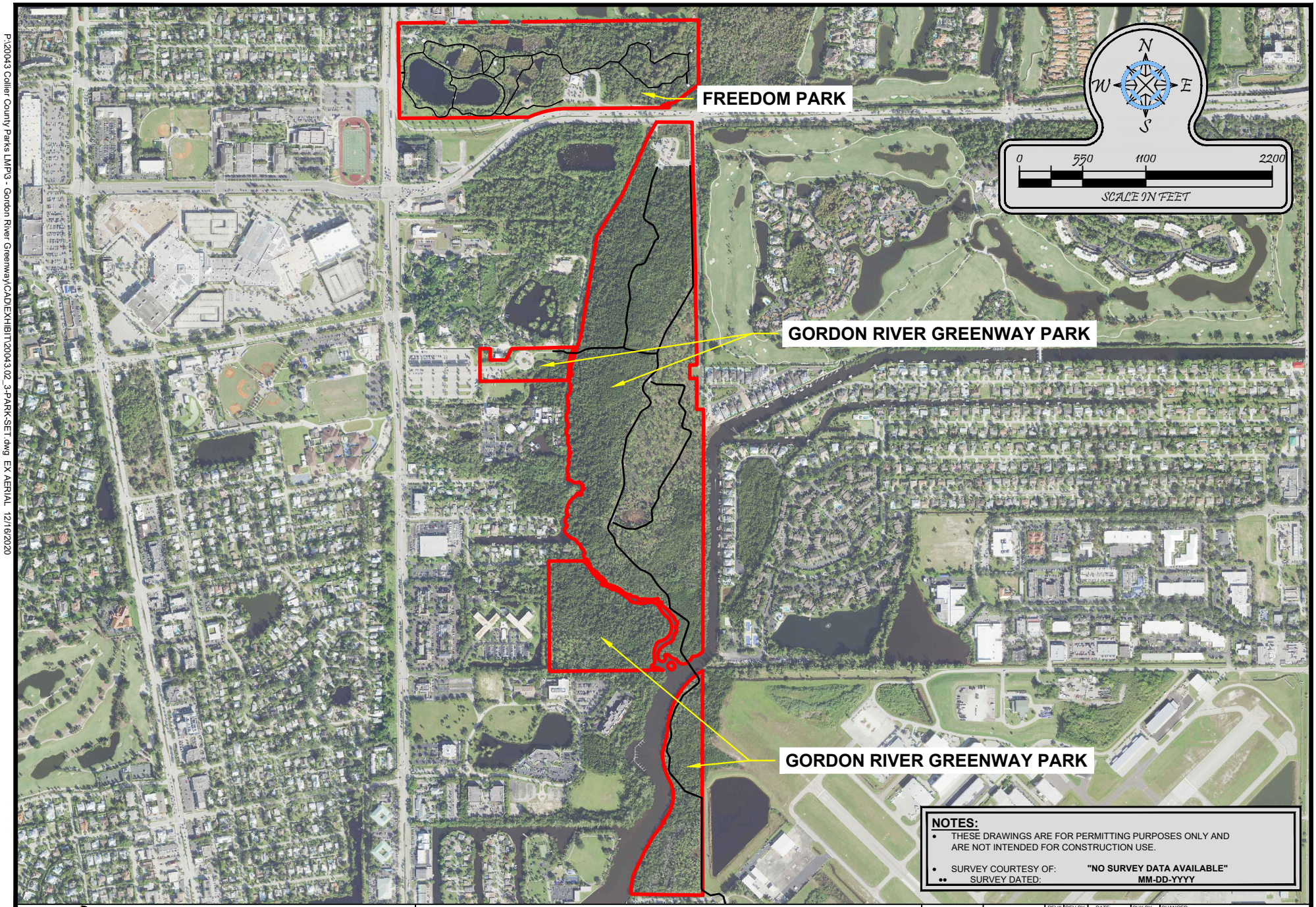
LICENSED PROFESSIONAL
CHRISTOPHER M. HICE
FLORIDA LICENSE NUMBER
RLA #6666934
DATE: 1/26/2012

LANDSCAPE PLAN FOR NORTHEAST NODE & SCHEDULES

SHEET NUMBER
L-401

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

P:\20043 Collier County Parks LMP\3 - Gordon River Greenway\CAD\EXHIBIT\20043.02_3-PARK-SET.dwg EX AERIAL 12/16/2020



NOTES:

- THESE DRAWINGS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION USE.
- SURVEY COURTESY OF: "NO SURVEY DATA AVAILABLE"
- SURVEY DATED: MM-DD-YYYY

Turrell, Hall & Associates, Inc.
Marine & Environmental Consulting
3584 Exchange Ave. Naples, FL 34104-3732
Email: tuna@thanaples.com Phone: (239) 643-0166 Fax: (239) 643-6632

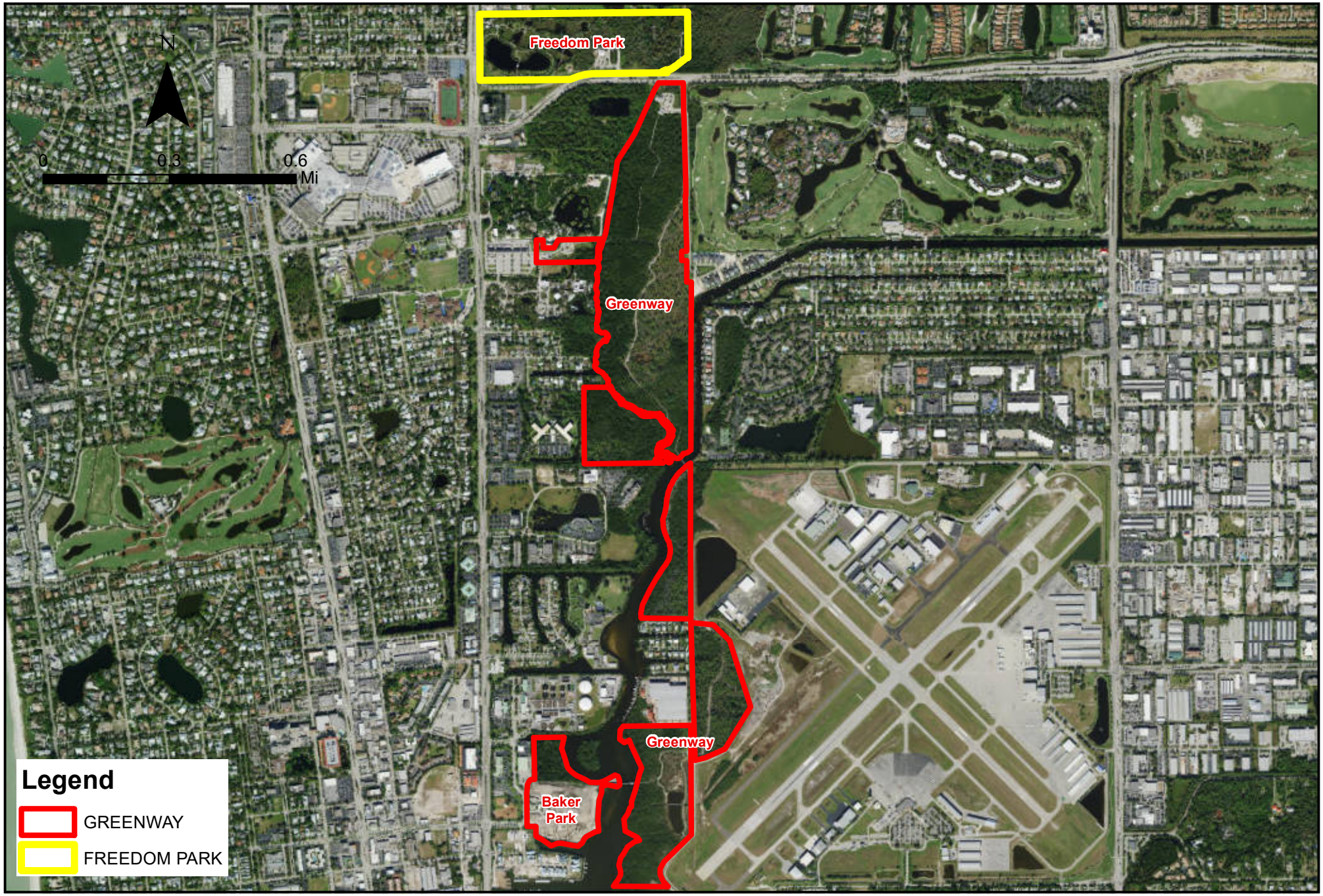
GORDON RIVER GREENWAY

PARK BOUNDARIES & TRAILS

THESE DRAWINGS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION USE.

		REV#:	REV BY:	DATE:	CHK BY:	CHANGED:
DESIGNED:	MN	1.	-	-	-	-
DRAWN BY:	RMJ	2.	-	-	-	-
CREATED:	11-18-20	3.	-	-	-	-
JOB NO.:	20043.03	4.	-	-	-	-
SHEET NO.:	02 OF 07	5.	-	-	-	-

SECTION- 27,34 TOWNSHIP- 49S RANGE- 25E



Turrell, Hall & Associates, Inc.
Marine & Environmental Consulting
3484 Exchange Ave. Suite B. Naples, FL 34104-3732
Email: tuna@thanaples.com Phone: (239) 643-0166 Fax: (239) 643-6632

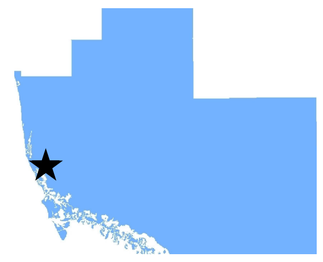
GORDON RIVER GREENWAY CORRIDOR

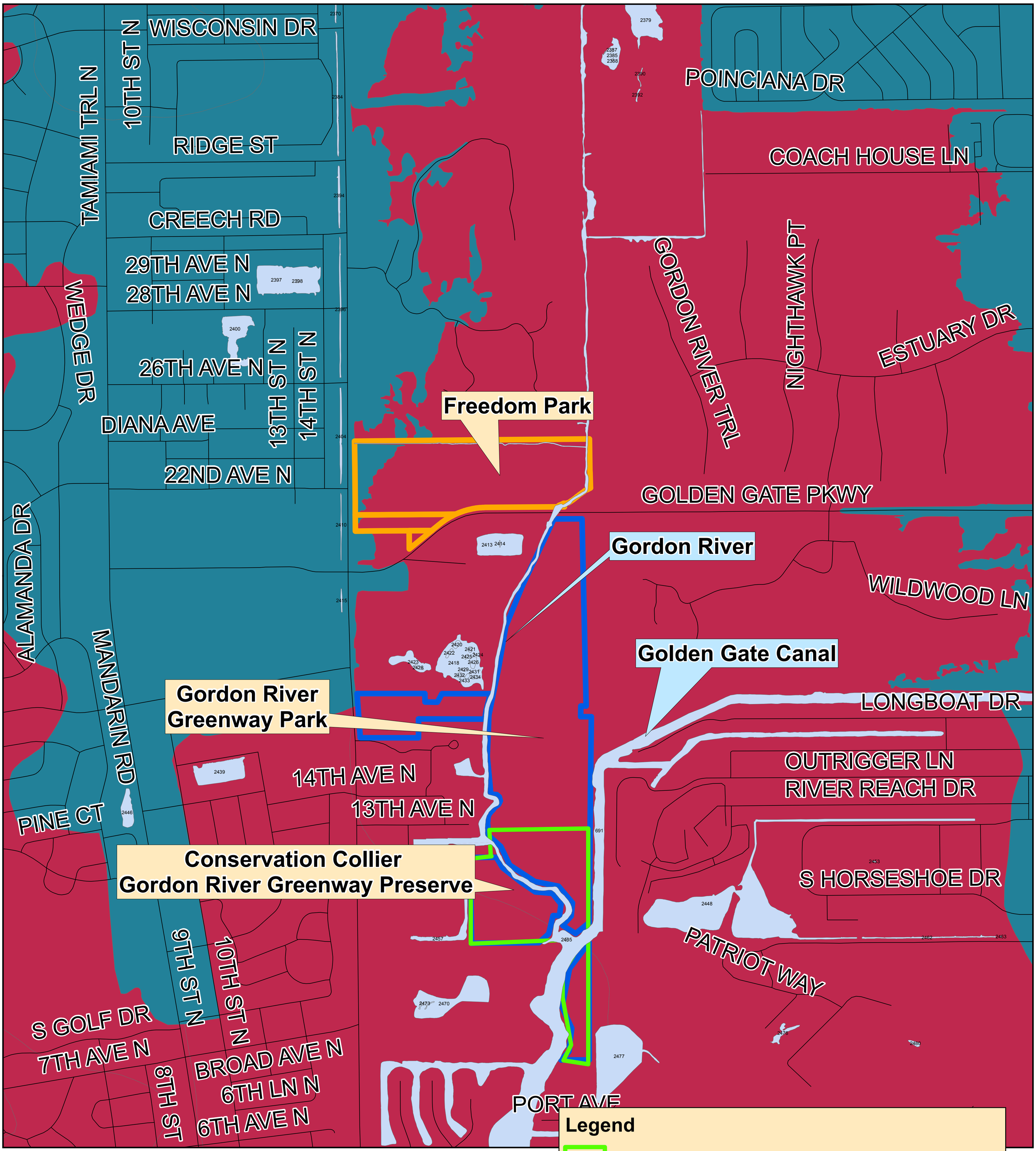
DRAWN BY:	RMJ	REVISION:	SCALE: 1 "=0.3 mi
CREATED:	12-16-20	N/A	FILE PATH: P:\20043 Collier County Parks LMP\3 - Gordon River Greenway\GIS\ 20043.3-GREENWAY_MAP.mxd
JOB NO.:	20043.3	N/A	
SHEET:	05 OF 07	N/A	

SECTION-27,34 TOWNSHIP- 49S RANGE-25E

Exhibit I

Freedom and Greenway Park
FEMA Flood Zone Designations





0 0.25 0.5 Miles

N W E S

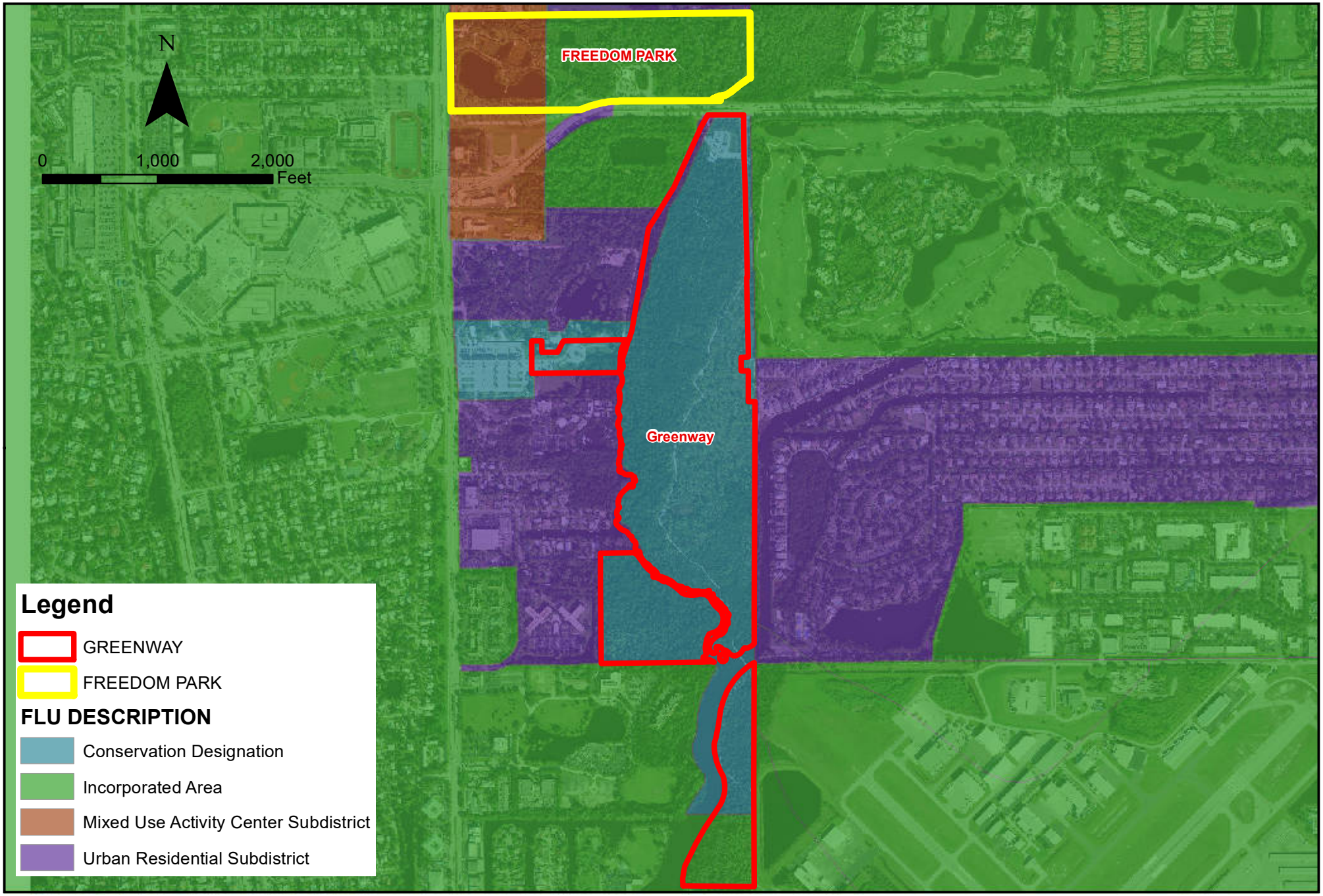
Data Source:Parcels - 2011 Collier County Property Appraiser
Created By: Facilities Management/
Conservation Collier/ A. Sulecki
G:\CDES Planning Services\Land Development Services\
Conservation Collier\
Gordon River Greenway Project\Maps\Freedom and Greenway
Parks FEMA Flood Zone Designations
.mxd and .pdf.
3/5/12

Legend

- Conservation Collier Preserve
- Gordon River Greenway Park
- Freedom Park
- Lakes and Rivers

FEMA ZONES

- A
- AE - base flood plain where base flood elevations are provided
- D
- VE
- X - between 100 year and 500 year floods



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Email: tuna@thanaples.com Phone: (239) 643-0166 Fax: (239) 643-6632

COLLIER COUNTY GORDON RIVER
GREENWAY FUTURE LAND USE MAP (FLUM)

DRAWN BY:	RMJ	REVISION:	SCALE: 1 "=1,100 '
CREATED:	12-16-20	N/A	FILE PATH: P:\20043 Collier County Parks LMP\3 - Gordon River Greenway\GIS\ 20043.3-GREENWAY_MAP.mxd
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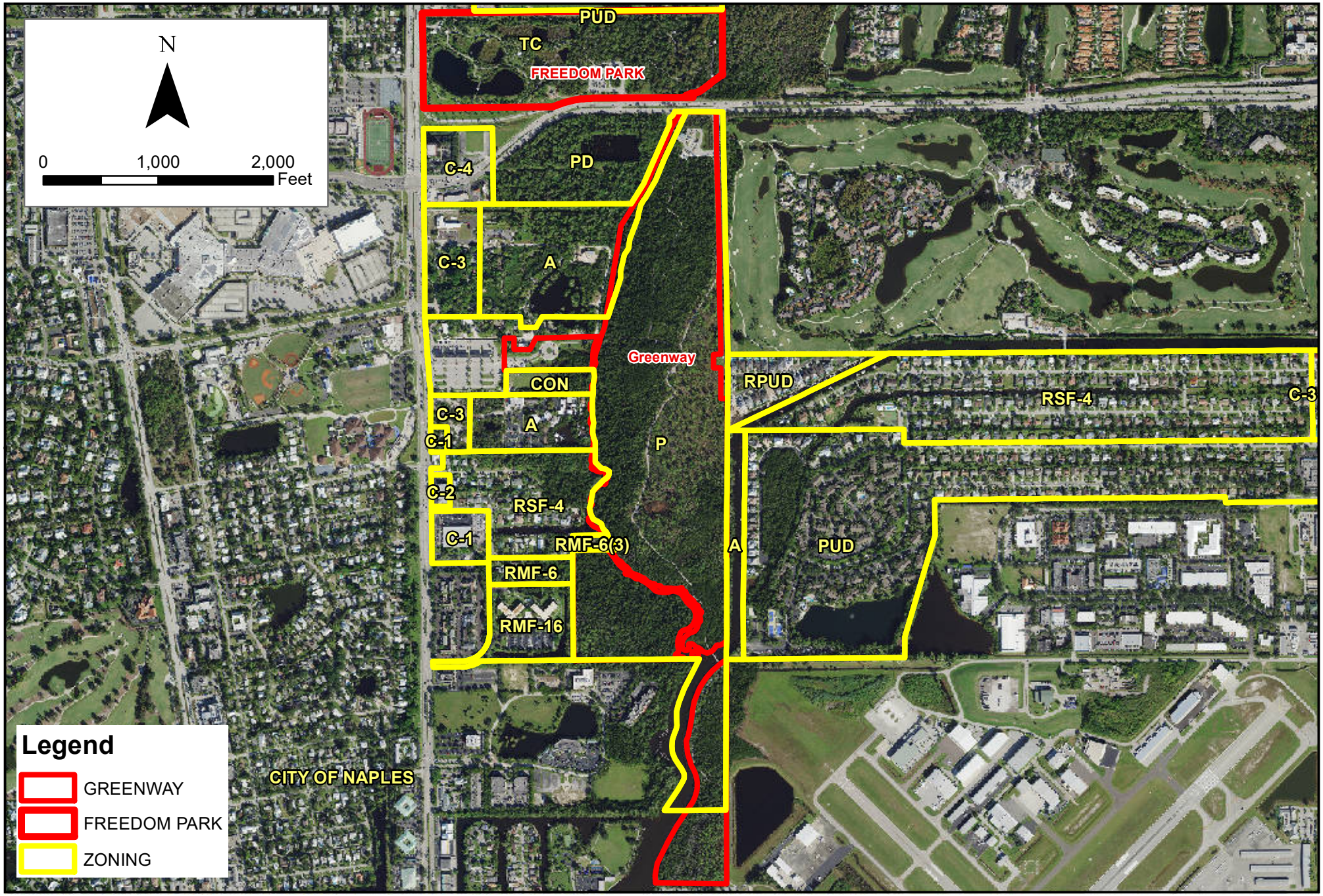
SHEET:	06 OF 07	N/A	

SECTION-27,34 TOWNSHIP- 49S RANGE-25E



Turrell, Hall & Associates, Inc.
Marine & Environmental Consulting
3484 Exchange Ave. Suite B. Naples, FL 34104-3732
Email: tuna@thanaples.com Phone: (239) 643-0166 Fax: (239) 643-6632

GORDON RIVER GREENWAY PARK & FREEDOM PARK
ZONING MAP

DRAWN BY:	RMJ	REVISION:	SCALE: 1 "=1,100 '
CREATED:	12-16-20	N/A	FILE PATH: P:\20043 Collier County Parks LMP\3 - Gordon River Greenway\GIS\ 20043.3-GREENWAY_MAP.mxd
JOB NO.:	20043.3	N/A	
SHEET:	07 OF 07	N/A	

SECTION-27,34 TOWNSHIP- 49S RANGE-25E

This instrument is prepared by
and return to:
South Florida Water Management District
3301 Gun Club Road, MSC 4210
West Palm Beach, Florida 33406

INSTR 4654747 OR 4762 PG 586
RECORDED 2/6/2012 11:38 AM PAGES 2
DWIGHT E. BROCK, CLERK OF THE CIRCUIT COURT
COLLIER COUNTY FLORIDA
DOC@.70 $0.70 REC $18.50

AMENDED EASEMENT

THIS AMENDED EASEMENT is made this 13th day of December, 2011 by and between Collier County, a political subdivision of the State of Florida whose address is 3299 East Tamiami Trail, Suite 303, Naples, Florida 34112, ("Grantor or County"), and South Florida Water Management District, whose address is 3301 Gun Club Road, West Palm Beach, Florida 33406, its successors and assigns, ("Grantee").

WITNESSETH:

WHEREAS, Grantor has acquired the property with partial funding from the Florida Communities Trust (hereinafter "FCT") (FCT project number 05-027-FF5, Gordon River Water Quality Park), and the Property is subject to covenants and restrictions set forth in Grant Award Agreement ("Agreement") approved by the Board of County Commissioners on November 15, 2005, under agenda item 16B2, and the Deed of Conservation Easement recorded in Official Records Book 4292 Pages 3317-3331 (the "Easement,") and

WHEREAS, as part and condition of the FCT funding, the County provided and FCT approved a Management Plan for the project site, and together with the Agreement and Conservation Easement, the terms of which are hereby incorporated herein by reference.

NOW, THEREFORE, in consideration of the mutual promises contained herein, Grantor and Grantee agree that the Deed of Conservation Easement shall be amended to include the following additional covenants and restrictions:

1. FCT shall be notified of all leases, easements or other similar documents that affect property funded by FCT.

2. The Agreement's restrictions on the FCT funded property are superior to any other restrictions placed upon the property.

3. Grantor intends that the conservation and recreation values of the Property be preserved and enhanced in accordance with the Management Plan, as it may be amended from time to time only after review and approval by FCT.

4. All activities by the Grantor and Grantee shall be consistent with the Agreement and Management Plan.

IN WITNESS WHEREOF, Grantor's duly authorized representative has signed and sealed this instrument on this 13 day of December 2011.

ATTEST: BOARD OF COUNTY
DWIGHT E. BROCK, CLERK

By: _____
Deputy Clerk

Attest as to Chairman's signature only.

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

By: Fred W. Coyle
FRED W. COYLE, CHAIRMAN
3299 Tamiami Trail East, Suite 303
Naples, Florida 34112

Approved as to form and
Legal sufficiency:

JBWhite
Jennifer B. White
Assistant County Attorney

REVIEWED AND APPROVED FOR
FLORIDA COMMUNITIES TRUST BY:

CG Smallwood
~~Mike Long~~, ~~Assistant~~ Division Director, Clay Smallwood
Division of State Lands

11-ECM-01545/2

INSTR 4831288 OR 4913 PG 2732 RECORDED 4/29/2013 11:37 AM PAGES 21
DWIGHT E. BROCK, CLERK OF THE CIRCUIT COURT, COLLIER COUNTY FLORIDA
DOC@.70 $0.70 REC $180.00

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

DEED OF CONSERVATION EASEMENT

Return recorded document to:
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Environmental Resource Compliance
3301 Gun Club Road
West Palm Beach, FL 33416-4680

THIS DEED OF CONSERVATION EASEMENT is given this 23rd day of April, 2013, by Collier County, a political subdivision of the State of Florida, ("Grantor") whose mailing address is 3335 Tamiami Trail East, Suite 101, Naples, FL 34112 to the South Florida Water Management District ("Grantee") with third party enforcement rights to the U.S. Army Corps of Engineers ("Corps"). As used herein, the term "Grantor" shall include any and all successors or assigns of the Grantor, and all subsequent owners of the "Property" (as hereinafter defined) and the term "Grantee" shall include any successor or assignee of Grantee.

COLLIER COUNTY COPY CLERK OF THE CIRCUIT COURT

WITNESSETH

WHEREAS, the Grantor is the owner of certain lands situated in Collier County, Florida, and more specifically described in Exhibit "A" attached hereto and incorporated herein ("Property"); and

WHEREAS, the Grantor desires to construct Gordon River Greenway Park ("Project") at a site in Collier County, which is subject to the regulatory jurisdiction of South Florida Water Management District ("District") and the ACOE; and

WHEREAS, District Permit No. 11-03344-P ("District Permit") authorizes certain activities which affect surface waters in or of the State of Florida; and

WHEREAS, the U.S. Army Corps of Engineers Permit No. SAJ-2011-00485 (IP-MMB) ("Corps Permit") authorizes certain activities in the waters of the United States and requires this site protection instrument over some of the lands identified in Exhibit 3.3 as mitigation for such activities;

WHEREAS, these Permits require that the Grantor preserve, enhance, restore and/or mitigate wetlands and/or uplands under the District's and Corp's jurisdiction; and

Whereas, the Corps has stated that it is not authorized to hold conservation easements, and the Grantor has therefore agreed to the granting of third party beneficiary rights to the ACOE; and

WHEREAS, the Grantor has developed and proposed as part of the Permit conditions, a conservation tract and maintenance buffer involving preservation of certain wetland and/or upland systems on the Property; and

WHEREAS, Grantor has acquired the property with partial funding from the Florida Communities Trust (FCT), and the Property is subject to certain limitations provided in the FCT Grant Award Agreement a/k/a the Declaration of Restrictive Covenants (as recorded in O.R. Book 4253, Page 713 in Collier County)(the "Agreement");and

WHEREAS, as part and condition of the FCT funding, the Grantor provided and FCT approved a Management Plan for the project site, and together with the Agreement, the terms of which are hereby incorporated herein by reference (incorporated into the permit as Exhibit(s) 3.11 and 3.12, respectively); and

WHEREAS, Grantor intends that the conservation and recreation values of the Property be preserved and enhanced in accordance with the Management Plan, as it may be amended from time to time only after review and approval by FCT; and

WHEREAS, All activities by the Grantor shall be consistent with the Agreement and Management Plan, subject to any future revisions, and shall not conflict with the Prohibited Uses described below; and

WHEREAS, the Grantor, in consideration of the consent granted by the District Permit, is agreeable to granting and securing to the Grantee a perpetual Conservation Easement as defined in Section 704.06, Florida Statutes, over the area described on Exhibit "B" ("Conservation Easement") which includes third party enforcement rights for the Corps.

NOW, THEREFORE, in consideration of the issuance of the District Permit to construct and operate the permitted activity, and as an inducement to Grantee in issuing the District Permit, together with other good and valuable consideration, the adequacy and receipt of which are hereby acknowledged, Grantor hereby grants, creates, and establishes a perpetual Conservation Easement for and in favor of the Grantee upon the Property described on Exhibit "B" which shall run with the land and be binding upon the Grantor, and shall remain in full force and effect forever.

The scope, nature, and character of this Conservation Easement shall be as follows:

1. Recitals. The recitals hereinabove set forth are true and correct and are hereby incorporated into and made a part of this Conservation Easement.

2. Purpose. It is the purpose of this Conservation Easement to retain land or water areas in their natural, vegetative, hydrologic, scenic, open, agricultural or wooded condition and to retain such areas as suitable habitat for fish, plants or wildlife. Those wetland and/or upland areas included in the Conservation Easement which are to be preserved, enhanced or created pursuant to the District Permit shall be retained and maintained in the enhanced or created conditions required by the District Permit. To carry out this purpose, the following rights are conveyed to the Grantee by this easement:

a. To enter upon the Property at reasonable times with any necessary equipment or vehicles to enforce the rights herein granted in a manner that will not unreasonably interfere with the use and quiet enjoyment of the Property by Grantor at the time of such entry; and

b. To enjoin any activity on or use of the Property that is inconsistent with this Conservation Easement and to enforce the restoration of such areas or features of the Conservation Easement that may be damaged by any inconsistent activity or use.

3. Prohibited Uses. Except for restoration, creation, enhancement, maintenance and monitoring activities, or surface water management improvements, or other activities described herein that are permitted or required by the Permit, the following activities are prohibited in or on the Conservation Easement:

a. Construction or placing of buildings, roads, signs, billboards or other advertising, utilities, or other structures on or above the ground;

b. Dumping or placing of soil or other substance or material as landfill, or dumping or placing of trash, waste, or unsightly or offensive materials;

c. c. Removal or destruction of trees, shrubs, or other vegetation, except for: (1) the removal of vegetation in accordance with a District approved maintenance plan; or (2) the cutting or removal of vegetation which encroaches into any airspace or surface governed by Federal Regulation 29 CFR Part77;

d. Excavation, dredging, or removal of loam, peat, gravel, soil, rock, or other material substance in such manner as to affect the surface;

e. Surface use except for purposes that permit the land or water area to remain in its natural or enhanced condition

f. Activities detrimental to drainage, flood control, water conservation, erosion control, soil conservation, or fish and wildlife habitat preservation including, but not limited to, ditching, diking and fencing;

g. Acts or uses detrimental to such aforementioned retention of land or water areas;

COPY
CLERK OF THE CIRCUIT COURT

h. Acts or uses which are detrimental to the preservation of the structural integrity or physical appearance of sites or properties having historical, architectural, archaeological, or cultural significance.

4. Passive Recreational Facilities. Grantor reserves all rights as owner of the Property, including the right to engage in uses of the Property that are not prohibited herein and that are not inconsistent with any District or Corps rule, criteria, the Permit and the intent and purposes of this Conservation Easement. Passive recreational uses that are not contrary to the purpose of this Conservation Easement may be permitted upon written approval by the District and the Corps. Without limiting the generality of the foregoing, the following rights are expressly reserved:

a. The Grantor may conduct limited land clearing for the purpose of constructing such pervious facilities as docks, boardwalks or mulched walking trails; and

b. The Grantor may construct and maintain passive public use facilities for the purpose of educating the public or allowing public access and recreation which have minimal or no impact on natural resources; and

c. Grantor may place signs and markers as necessary to identify trails, restoration areas, or other site features related to public use and land management activities; and

d. Grantor may construct and maintain to the extent allowed by current and future permits, at grade, management roads, fire breaks, trails, walkways, piers, observation platforms or boardwalks necessary to provide public access and management activities as provided for in the site's management plan; and

e. Grantor may remove or kill by any lawful means, exotic or nuisance vegetation or animal species, conduct prescribed burns and conduct other management activities necessary to carry out management for conservation purposes; and

f. Grantor may conduct restoration and enhancement projects which do not conflict with the purpose of this easement; and

g. The construction and use of the approved passive recreational facilities shall be subject to the following conditions:

i. Grantor shall minimize and avoid, to the fullest extent possible, impact to any wetland or upland buffer areas within the Conservation Easement Area and shall avoid materially diverting the direction of the natural surface water flow in such area;

ii. Such facilities and improvements shall be constructed and maintained utilizing Best Management Practices;

iii. Adequate containers for litter disposal shall be situated adjacent to such facilities and improvements and periodic inspections shall be instituted by the maintenance entity, to clean any litter from the area surrounding the facilities and improvements;

iv. This Conservation Easement shall not constitute permit authorization for the construction and operation of the passive recreational facilities. Any such work shall be subject to all applicable federal, state, District or local permitting requirements.

5. No Dedication. No right of access by the general public to any portion of the Property is conveyed by this Conservation Easement.

6. Grantee's Liability. Neither Grantee nor the ACOE shall be responsible for any costs or liabilities related to the operation, upkeep or maintenance of the Property.

7. Property Assessments. If and to the extent that the Grantor is not exempt from assessments and assessments are levied against the Easement Parcel, Grantor shall keep the assessments on the Easement Parcel current.

CHARLOTTE COUNTY COPY CLERK OF CIRCUIT COURT

8. Enforcement. Enforcement of the terms, provisions and restrictions of this Conservation Easement shall be at the reasonable discretion of Grantee, and any forbearance on behalf of Grantee to exercise its rights hereunder in the event of any breach hereof by Grantor, shall not be deemed or construed to be a waiver of Grantee's rights hereunder.

9. Rights of the U.S. Army Corps of Engineers ("Corps"): The Corps, as a third party beneficiary, shall have the right to enforce the terms and conditions of the site protection instrument, including:

a. The right to take action to preserve and protect the environmental value of the Property;

b. The right to prevent any activity on the Property that is inconsistent with the purpose of this instrument, and to require the restoration of areas or feature of the Property that may be damaged by any inconsistent activity;

c. The right to enter upon and inspect the Property in a reasonable manner and at reasonable times to determine if Grantor or its successors and assigns are complying with the covenants and prohibitions contained in this instrument;

d. The right to enforce this instrument by injunction or proceed at law or in equity to enforce the provisions of this instrument and the covenants set forth herein, to prevent the occurrence of any of the prohibited activities hereinafter set forth, and the right to require Grantor, or its successors and assigns, and to restore such areas or features of the Property that may be damaged by unauthorized activities. The Grantee and the Corps will coordinate with each other prior to taking any enforcement action.

10. Third Party (Corps) Notice Rights: The Grantor, including their successors or assigns, shall provide the Corps at least 60 days advance notice in writing before any action is taken to amend, alter, release, or revoke this instrument. The Grantee shall provide reasonable notice and an opportunity to comment or object to the release or amendment to the Corps. The Grantee shall consider any comments or objections from the Corps when making the final decision to release or amend such a conservation easement.

11. Florida Communities Trust Notice Rights: The Grantor shall also provide the FCT, whose mailing address is: Department of Environmental Protection, 3900 Commonwealth Blvd., MS#115, Tallahassee, Florida 32399, at least 60 days advance notice in writing before requesting that any action is taken to modify, alter, release or revoke this Conservation Easement.

12. Assignment. Grantee will hold this Conservation Easement exclusively for conservation purposes. Grantee will not assign its rights and obligations under this Conservation Easement except to another organization or entity qualified to hold such interests under the applicable state laws.

13. Severability. If any provision of this Conservation Easement or the application thereof to any person or circumstances is found to be invalid, the remainder of the provisions of this Conservation Easement shall not be affected thereby, as long as the purpose of the Conservation Easement is preserved.

14. Terms, Conditions, Restrictions, Purpose. The terms, conditions, restrictions and purpose of this Conservation Easement shall be referenced by Official Record Book and Page Number by Grantor in any subsequent deed or other legal instrument by which Grantor divests itself of any interest in the Conservation Easement. Any future holder of the Grantor's interest in the Property shall be notified in writing by Grantor of this Conservation Easement and the third party enforcement rights of the ACOE.

15. Written Notice. All notices, consents, approvals or other communications hereunder shall be in writing and shall be deemed properly given if sent by United States certified mail, return receipt requested, addressed to the appropriate party or successor-in-interest.

16. Modifications. This Conservation Easement may be amended, altered, released or revoked only by written agreement between the parties hereto or their heirs, assigns or successors-in-interest, which shall be filed in the public records in Collier County.

TO HAVE AND TO HOLD unto Grantee forever. The covenants, terms, conditions, restrictions and purposes imposed with this Conservation Easement shall be binding upon Grantor, and shall continue as a servitude running in perpetuity with the Property.

The Grantor agrees to defend the title to the Conservation Easement property hereby conveyed against the lawful claims of all persons claiming by, through, or under the Grantor, except those claims created or arising from any act or omission of Grantee.

IN WITNESS WHEREOF, Collier County (Grantor) has hereunto set its authorized hand this 23rd day of April, 2013.

ATTEST:
DWIGHT E. BROCK, Clerk

BY: _____
Deputy Clerk

Attest as to Chairman's signature only.

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

BY: _____
Georgia A. Hiller, Esq., Chairwoman

Approved as to form and legal sufficiency:

_____
Jennifer B. White
Assistant County Attorney

COLLIER COUNTY COPY CLERK OF THE CIRCUIT COURT

REVIEWED AND APPROVED FOR
FLORIDA COMMUNITIES TRUST BY:

_____
Rick Mercer, Director
Office of Operations / Land and Recreation
Florida Communities Trust

This Conveyance Approved By
The Board Of County
Commissioners
Collier County Florida,
Pursuant To Agenda
Date: 4/23/13 Item No: 16D9

Reviewed and Approved by:

_____
Print Name: _____
Title: _____
South Florida Water Management District

TO HAVE AND TO HOLD unto Grantee forever. The covenants, terms, conditions, restrictions and purposes imposed with this Conservation Easement shall be binding upon Grantor, and shall continue as a servitude running in perpetuity with the Property.

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IN WITNESS WHEREOF, Collier County (Grantor) has hereunto set its authorized hand this 23rd day of April, 2013.

ATTEST:
DWIGHT E. BROCK, Clerk

BY: ON PRIOR PAGE
Deputy Clerk

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

BY: ON PRIOR PAGE
Georgia A. Hiller, Esq., Chairwoman

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

Approved as to form and legal sufficiency:

ON PRIOR PAGE
Jennifer B. White
Assistant County Attorney

REVIEWED AND APPROVED FOR
FLORIDA COMMUNITIES TRUST BY:

Rick Mercer, Director
Office of Operations / Land and Recreation
Florida Communities Trust

Reviewed and Approved by:

ON NEXT PAGE
Print Name: _____
Title: _____
South Florida Water Management District

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BY: ON PRIOR PAGE
Deputy Clerk

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

BY: ON PRIOR PAGE
Georgia A. Hiller, Esq., Chairwoman

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

Approved as to form and legal sufficiency:

ON PRIOR PAGE
Jennifer B. White
Assistant County Attorney

REVIEWED AND APPROVED FOR
FLORIDA COMMUNITIES TRUST BY:

ON PRIOR PAGE
Rick Mercer, Director
Office of Operations / Land and Recreation
Florida Communities Trust

Reviewed and Approved by:

Print Name: Douglas H. MacLaughlin
Title: Supervising Attorney
South Florida Water Management District

EXHIBIT A

[DESCRIPTION OF PROPERTY]

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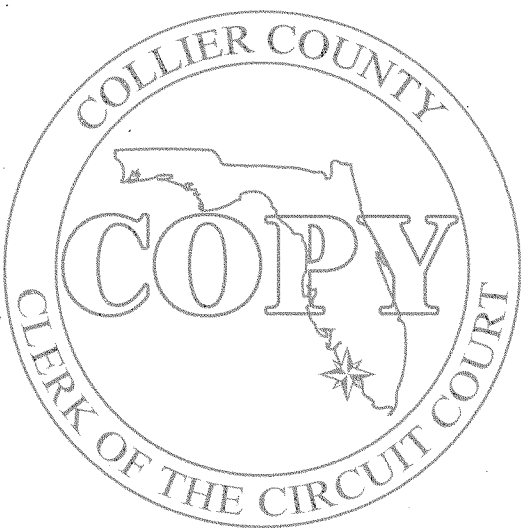


EXHIBIT A
Page 1 of 3

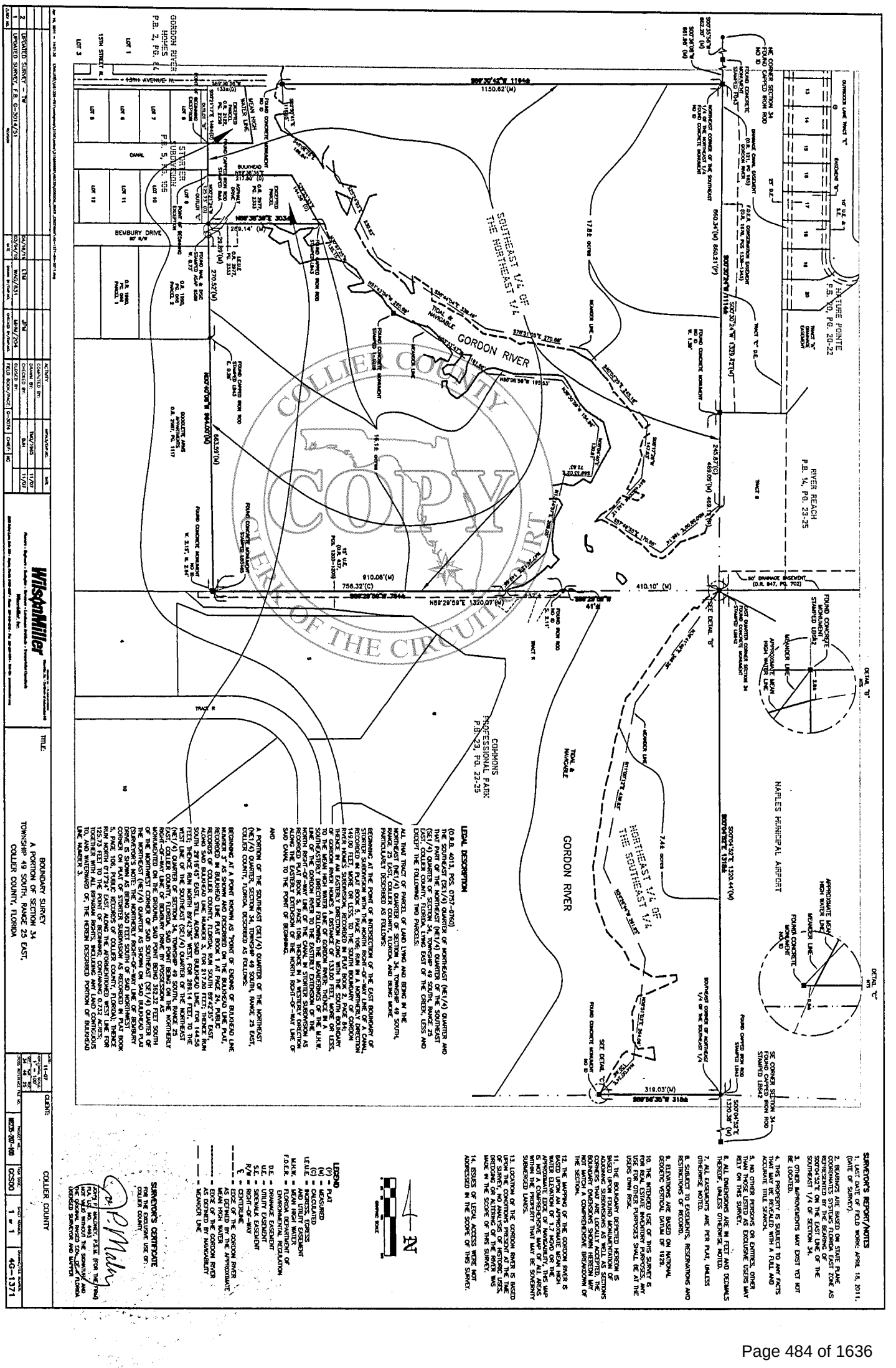

NATURE POINTE P.B. 70, PG. 23-25
RIVER REACH P.B. 14, PG. 23-25
GORDON RIVER HOMES P.B. 2, PG. 84
STRITTER SUBDIVISION P.B. 5, PG. 106
COMMONS PROFESSIONAL PARK P.B. 23, PG. 23-25
BEMBURY DRIVE 60' R/W
15TH AVENUE N.
15TH STREET N.
SOUTHEAST 1/4 OF THE NORTHEAST 1/4
NORTHEAST 1/4 OF THE SOUTHEAST 1/4
GORDON RIVER
TIDAL & NAVIGABLE
NAPLES MUNICIPAL AIRPORT
748 acres
1785 acres
1615 acres
TRACT R
TRACT S
TRACT 'A' DRAINAGE EASEMENT
TRACT 'C' D.E.
50' DRAINAGE EASEMENT (O.R. 847, PG. 702)
25' D.E.
15' U.E. (O.R. 631, PG. 1350-1360)
FPL & COMMUNICATION EASEMENT (O.R. 1976, PGS. 1336-1340)
BRIDGE OPEN EASEMENT (O.R. 331, PG. 160)
MEANDER LINE
APPROXIMATE MEAN HIGH WATER LINE
MEAN HIGH WATER LINE
EDGE OF WATER
EDGE OF BRIDGE
FOUND CONCRETE MONUMENT NO ID
FOUND CONCRETE MONUMENT NO D
FOUND CAPPED IRON ROD STAMPED LB#2
FOUND CAPPED IRON ROD STAMPED LB#3
FOUND CAPPED IRON ROD NO D
FOUND CAPPED IRON ROD NO ID
FOUND CONCRETE MONUMENT STAMPED LB#2
FOUND CONCRETE MONUMENT STAMPED LB#3
NE CORNER SECTION 34 FOUND CAPPED IRON ROD NO D
NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 FOUND CONCRETE MONUMENT NO D
SE CORNER SECTION 34 FOUND CAPPED IRON ROD STAMPED LB#2
SOUTHEAST CORNER OF NORTHEAST 1/4 OF THE SOUTHEAST 1/4
SEE DETAIL 'A'
SEE DETAIL 'B'
SEE DETAIL 'C'
DETAIL 'A' NTS
DETAIL 'B' NTS
DETAIL 'C' NTS
POINT OF BEGINNING EXCEPTION
POINT OF BEGINNING
POINT OF COMMENCEMENT
OUTLOT 'C'
OUTLOT 'A'
LOT 1
LOT 2
LOT 3
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
LOT 11
LOT 12
CANAL
ASPHALT DRIVE
PROPOSED PARCEL O.R. 2152, PG. 2332
O.R. 2077, PG. 2333
O.R. 2077, PG. 2332
O.R. 1965, PARCEL 1
O.R. 2667, PG. 1117
S89°30'56"W 1334.0(C)
S89°30'56"W 1334.0(M)
S89°30'56"W 1184.6
S89°30'56"W 1184.6
S89°30'45"W 1184.6
S89°30'45"W 1184.6
S89°30'45

EXHIBIT A
Page 2 of 3

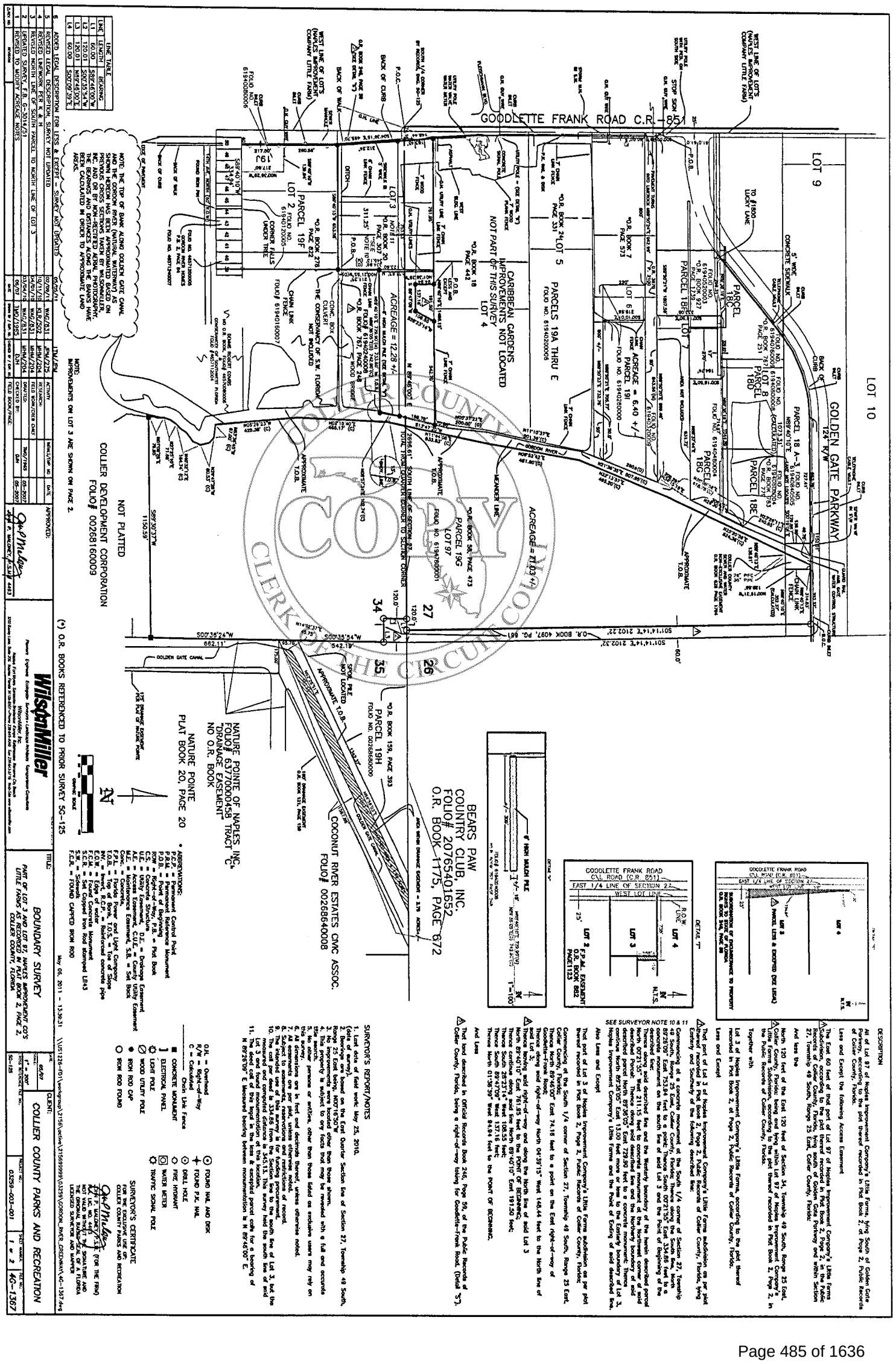
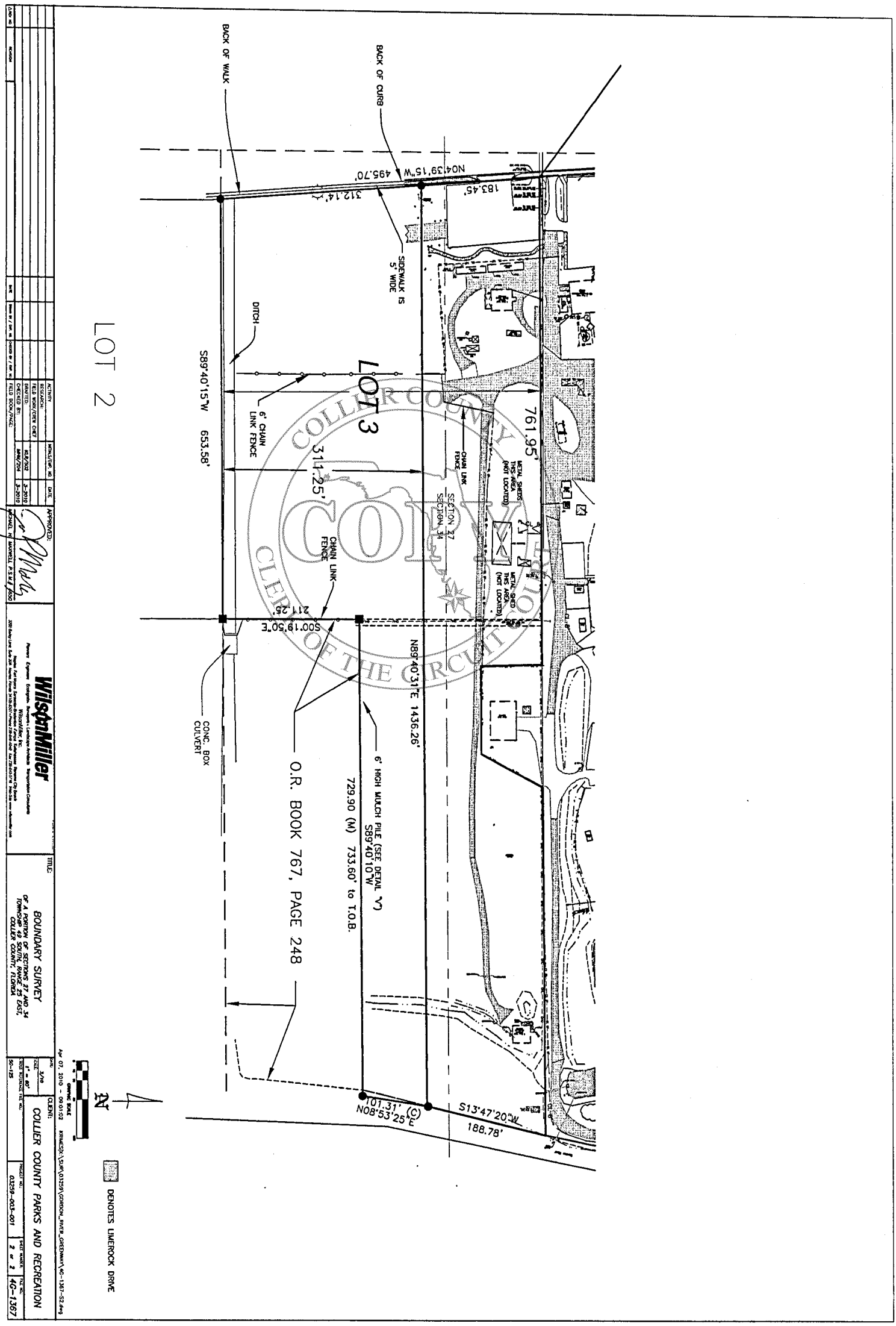

GOODLETTE FRANK ROAD C.R. 851
GOLDEN GATE PARKWAY
LOT 9
LOT 10
PARCEL 18A
PARCEL 18B
PARCEL 18C
PARCEL 18D
PARCEL 18E
PARCEL 18G
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
PARCEL 19F
PARCEL 19I
PARCEL 19G
PARCEL 19H
PARCELS 19A THRU E
CARIBBEAN GARDENS IMPROVEMENTS, NOT LOCATED NOT PART OF THIS SURVEY
ACREAGE = 12.28 +/-
ACREAGE = 6.40 +/-
ACREAGE = 11.03 +/-
GOLDEN GATE CANAL
MEANDER LINE
BACK OF CURB
BACK OF WALK
P.O.C.
P.O.B.
DITCH
CHAIN LINK FENCE
CONC. BOX CULVERT
THE CONSERVANCY OF S.W. FLORIDA NOT INCLUDED
CORNER FILLS UNDER TREE
WEST LINE OF LOTS (WAPLES IMPROVEMENT COMPANY LITTLE FARMS)
5' WIDE CONCRETE SIDEWALK
STOP SIGN
TO #1000 LUCKY LANE
NATURE POINTE PLAT BOOK 20, PAGE 20
NATURE POINTE OF NAPLES, INC. FOLIO# 63770000458 TRACT "C" "DRAINAGE EASEMENT" NO O.R. BOOK
BEARS PAW COUNTRY CLUB, INC. FOLIO# 2076540165 2 O.R. BOOK 1175, PAGE 672
COCONUT RIVER ESTATES CIVIC ASSOC. FOLIO# 00268640008
APPROXIMATE T.O.B.
APPROXIMATE T.O.R.
SPOIL PILE NOT LOCATED
S00°38'24"W 682.11'
S00°35'54"W 542.19'
S01°14'14"E 2102.22'
O.R. BOOK 4097, PG. 861
60.0'
2656.61' SOUTH LINE OF SECTION 27
TOTAL FRONT CORNER CORNER TO SECTION CORNER
N 89°46'00" E
S89°40'10"W 139.94'
S89°30'37"W 1150.59'
N89°40'10"E 1150.59'
N89°40'10"E 1150.59'
N89°40'10"E

EXHIBIT A
Page 3 of 3



ACTIVITY: RESEARCH: FIELD WORK/CREW CHIEF: DRAFTED: CHECKED BY: FIELD BOOK/PAGE:	MTM/LTP/MF, RD MJK/DGD MPM/ZKM	DATE 3-2010 3-2010	APPROVED: MICHAEL H. MAXWELL, P.S.M. #6353

Wilson Miller

Planners Engineers Ecologists Surveyors Landscape Architects Transportation Consultants

Wilson Miller, Inc.
Naples Fort Myers Sarasota-Bradenton Tampa Kissimmee Stuart/Port St. Lucie Orlando Palm Beach

3200 Bailey Lane Suite 134 Naples, Florida 34105-8307 Phone 239.643.1949 Fax 239.643.5716 Web Site www.wilsonmiller.com

TITLE:
BOUNDARY SURVEY
OF A PORTION OF SECTIONS 27 AND 34
TOWNSHIP 48 SOUTH, RANGE 25 EAST,
COLLIER COUNTY, FLORIDA

DATE: Apr 07, 2010 - 09:01:02
SCALE: 1"=0
DRAWING FILE: K:\NAPLES\PL\SURV\03259\DGN\BOUNDARY SURVEY.dgn
CLIENT: COLLIER COUNTY PARKS AND RECREATION
SHEET NO.: 2 of 2
PROJECT NO.: 03259-003-001
FILE NO.: 4G-1367

EXHIBIT B

[LEGAL DESCRIPTION AND SKETCH]

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WilsonMiller

Stantec

3200 Bailey Lane, Suite 200
Naples, FL 34105
Tel: (239) 649-4040

LEGAL DESCRIPTION
Of part of Lots 3 and 97,
Naples Improvement Co's. Little Farms
Plat Book 2, page 2, and part of
Section 34, Township 49 South, Range 25 East,
Collier County, Florida.
Gordon River Greenway Park (Conservation Easement Areas)

(Conservation Easement Area 1)

All of that part of Lot 97, according to the plat of Naples Improvement Co's. Little Farms, Plat Book 2, page 2, of the public records of Collier County, Florida, being more particularly described as follows;
Commencing at the Northeast corner of Section 34, Township 49 South, Range 25 East, Collier County, Florida;
Thence along the east line of said Section 34 South 00°35'54" West 390.01 feet to the POINT OF BEGINNING;
Thence continue along said east line South 00°35'54" West 272.19 feet;
Thence still continuing along said east line South 00°36'24" West 662.11 feet to a point hereinafter referred to as Point "A";
Thence leaving said east line South 89°30'42" West 1,150.59 feet more or less to the approximate top of bank of the Gordon River;
Thence along the approximate top of bank of Gordon River in the following eighteen (18) described courses:

1. North 06°35'53" West 27.14 feet;
2. North 18°26'38" East 14.90 feet;
3. North 00°00'00" East 37.70 feet;
4. North 19°02'05" East 36.15 feet;
5. North 35°46'04" East 36.30 feet;
6. North 45°00'53" East 36.67 feet;
7. North 31°41'50" East 30.57 feet;
8. North 53°40'09" East 58.81 feet;
9. North 24°43'09" East 42.34 feet;
10. North 14°06'34" West 47.07 feet;
11. North 49°41'48" West 37.43 feet;
12. North 83°36'45" West 67.00 feet;
13. North 05°29'23" West 425.38 feet;
14. North 02°15'40" East 465.17 feet to a point hereinafter referred to as Point "B";
15. North 11°44'08" East 533.83 feet;
16. North 09°52'42" East 481.60 feet;
17. North 22°13'57" East 494.19 feet;
18. North 25°21'04" East 297.36 feet;

Thence leaving said meander line South 43°48'06" East 119.68 feet;
Thence North 89°29'59" East 368.52 feet;
Thence South 00°11'13" East 461.26 feet;
Thence South 39°45'16" East 128.55 feet;
Thence South 01°14'14" East 241.06 feet;
Thence South 25°19'28" West 115.53 feet;
Thence South 33°52'59" West 87.82 feet;

COLLIER COUNTY CLERK OF THE CIRCUIT COURT COPY

EXHIBIT B
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Thence South 32°02'14" West 289.41 feet;
Thence South 21°33'08" West 216.41 feet;
Thence South 68°26'52" East 40.00 feet;
Thence North 21°33'08" East 212.74 feet;
Thence North 32°02'14" East 285.10 feet;
Thence North 33°52'59" East 59.68 feet;
Thence North 88°45'46" East 64.81 feet to a point on the right of way easement as recorded in Official Records Book 4097, page 661, of the public records of Collier County, Florida;
Thence along said easement in the following three (3) described courses:
1. South 01°14'09" East 590.46 feet;
2. South 89°46'05" West 60.00 feet;
3. South 00°37'53" West 120.01 feet;

Thence leaving said easement continuing South 00°37'53" West 149.22 feet;
South 89°24'06" East 60.12 feet to a point on the right of way easement as recorded in Official Records Book 4535, pages 2342-2346 of the public records of Collier County, Florida;
Thence along said easement line South 00°35'54" West 119.05 feet;
Thence continue along said easement South 89°24'06" East 60.00 feet to the POINT OF BEGINNING.

Containing 62.53 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 2)

All of that part of Lot 3, according to the plat of Naples Improvement Co's. Little Farms, Plat Book 2, page 2, of the public records of Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "B";
Thence North 03°06'12" East 247.10 feet to the north line of said Lot 3 and the POINT OF BEGINNING;
Thence South 13°47'20" West 60.40 feet;
Thence 148.46 feet along the arc of a non-tangential circular curve concave north having a radius of 179.32 feet through a central angle of 47°26'04" and being subtended by a chord which bears South 72°29'12" West 144.26 feet;
Thence North 13°50'44" East 24.73 feet;
Thence North 15°37'42" East 67.49 feet;
Thence North 56°33'03" East 22.56 feet to the north line of said Lot 3;
Thence along said north line North 89°40'10" East 109.05 feet to the POINT OF BEGINNING.

Containing 0.26 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 3)

All of that part of Lot 3, according to the plat of Naples Improvement Co's. Little Farms, Plat Book 2, page 2, of the public records of Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "B";
Thence South 52°10'55" West 59.84 feet to the POINT OF BEGINNING;

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EXHIBIT 6
Page 8 of 9

Thence along the north line of that land described in Official Records Book 767, page 248, South 89°40'31" West 289.89 feet;
Thence leaving said line North 08°17'19" East 23.82 feet;
Thence 4.36 feet along the arc of a non-tangential circular curve concave northwest having a radius of 38.00 feet through a central angle of 06°34'06" and being subtended by a chord which bears North 31°54'35" East 4.35 feet;
Thence North 28°37'32" East 3.19 feet;
Thence 9.22 feet along the arc of a circular curve concave west having a radius of 11.50 feet through a central angle of 45°56'06" and being subtended by a chord which bears North 05°39'29" East 8.97 feet;
Thence North 63°19'18" East 23.50 feet;
Thence North 00°20'29" East 14.77 feet;
Thence North 16°27'25" West 4.07 feet;
Thence North 28°37'32" East 2.73 feet;
Thence 44.63 feet along the arc of a circular curve concave west having a radius of 38.00 feet through a central angle of 67°17'09" and being subtended by a chord which bears North 05°01'02" West 42.11 feet;
Thence North 42°10'40" East 1.26 feet;
Thence North 32°01'25" East 5.42 feet;
Thence North 22°21'16" East 5.67 feet;
Thence North 13°08'35" East 6.64 feet;
Thence North 03°20'11" East 7.41 feet;
Thence North 00°00'25" West 5.64 feet;
Thence North 14°02'44" East 4.15 feet;
Thence North 09°54'41" East 4.60 feet;
Thence North 21°24'48" East 5.71 feet;
Thence North 25°47'06" East 4.63 feet;
Thence North 36°22'51" East 6.20 feet;
Thence North 38°24'53" East 3.63 feet;
Thence 12.98 feet along the arc of a non-tangential circular curve concave north having a radius of 32.22 feet through a central angle of 23°05'14" and being subtended by a chord which bears North 85°29'43" East 12.89 feet to a point of reverse curvature;
Thence 62.02 feet along the arc of a circular curve concave south having a radius of 100.00 feet through a central angle of 35°32'05" and being subtended by a chord which bears South 88°16'52" East 61.03 feet to a point of reverse curvature;
Thence 216.03 feet along the arc of a circular curve concave north having a radius of 243.31 feet through a central angle of 50°52'18" and being subtended by a chord which bears North 84°03'01" East 209.01 feet;
Thence South 13°47'20" West 89.02 feet;
Thence South 08°57'31" West 102.74 feet to the POINT OF BEGINNING.

Containing 1.05 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 4)

All of that part of Section 34, Township 49 South, Range 25 East, Collier County, Florida, being more particularly described as follows;
Beginning at the aforementioned Point "A";
Thence along the east line of said Section 34, South 00°30'24" West 1,106.14 feet more or less to the mean high water line of Gordon River and a point hereinafter

EXHIBIT B
Page 3 of 9

referred to as Point "C";

Thence along the meander line of Gordon River as shown on WilsonMiller Inc. Survey File No. 4G-1371 in the following ten (10) described courses:

1. South 50°58'09" West 199.14 feet;
2. North 57°49'55" West 170.86 feet to a point hereinafter referred to as Point "D";
3. North 41°49'00" East 142.12 feet;
4. North 06°17'26" East 147.93 feet;
5. North 40°02'25" West 245.16 feet;
6. North 78°51'05" West 270.68 feet;
7. North 56°44'04" West 338.49 feet;
8. North 25°24'03" West 230.83 feet;
9. North 48°06'26" West 189.84 feet;
10. North 02°50'41" West 116.95 feet;

Thence leaving said meander line North 89°30'42" East 1,150.62 feet to the POINT OF BEGINNING.

Containing 17.38 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 5)

All of that part of Section 34, Township 49 South, Range 25 East, Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "D";
Thence North 18°06'05" West 114.89 feet to the meander line of Gordon River and the POINT OF BEGINNING;
Thence along said meander line as shown on WilsonMiller Inc. Survey File No. 4G-1371 in the following three (3) described courses:

1. North 88°33'02" West 72.63 feet;
2. South 13°14'57" West 209.05 feet;
3. South 47°24'12" West 149.66 feet to a point on the north line of Tract K, according to the plat of The Commons Professional Park, Plat Book 23, pages 23-35, of the public records of Collier County, Florida;

Thence along the north line of said Tract K, South 89°29'59" West 756.32 feet;
Thence leaving said north line North 00°40'08" West 904.00 feet to a point on the ingress, egress and utility easement as recorded in Official Records Book 2977, page 2333, of the public records of Collier County, Florida;
Thence along said easement North 89°38'42" East 74.67 feet;
Thence continue along said easement North 00°21'18" West 60.00 feet to a point on the boundary of those lands described in Official Records Book 2977, page 2333, of the public records of Collier County, Florida;
Thence along said boundary North 89°38'36" East 214.13 feet more or less to the said meander line of the Gordon River;
Thence along the meander line of the Gordon River in the following six (6) described courses:

1. South 30°57'25" East 135.17 feet;
2. South 51°43'04" East 265.69 feet;
3. South 55°33'47" East 191.66 feet;
4. South 85°08'59" East 195.53 feet;
5. South 38°30'59" East 154.96 feet;
6. South 08°04'40" West 130.81 feet to the POINT OF BEGINNING.

EXHIBIT B
Page 4 of 9

WilsonMiller Stantec

Containing 16.13 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 6)

All of that part of Section 34, Township 49 South, Range 25 East, Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "C";
Thence along the east line of said Section 34, South 00°30'24" West 223.28 feet to the POINT OF BEGINNING;
Thence continue along said east line South 00°04'52" East 1,320.44 feet;
Thence leaving said east line South 89°56'35" West 319.03 feet more or less to the meander line of Gordon River as shown on WilsonMiller Inc. Survey File No. 4G-1371 ;
Thence along the meander line of Gordon River in the following five (5) described courses:
1. North 44°00'24" East 129.66 feet;
2. North 06°51'03" East 264.09 feet;
3. North 24°26'44" West 261.95 feet;
4. North 11°00'12" East 439.63 feet;
5. North 36°41'49" East 368.26 feet to the POINT OF BEGINNING.

Containing 6.59 acres more or less.

Containing 103.94 net acres more or less.
Subject to easements and restrictions of record.
Bearings are based on the East line of said Section 34, being South 00°35'54" West.

Certificate of authorization #LB-43.

WilsonMiller, Inc.
Registered Engineers and Land Surveyors

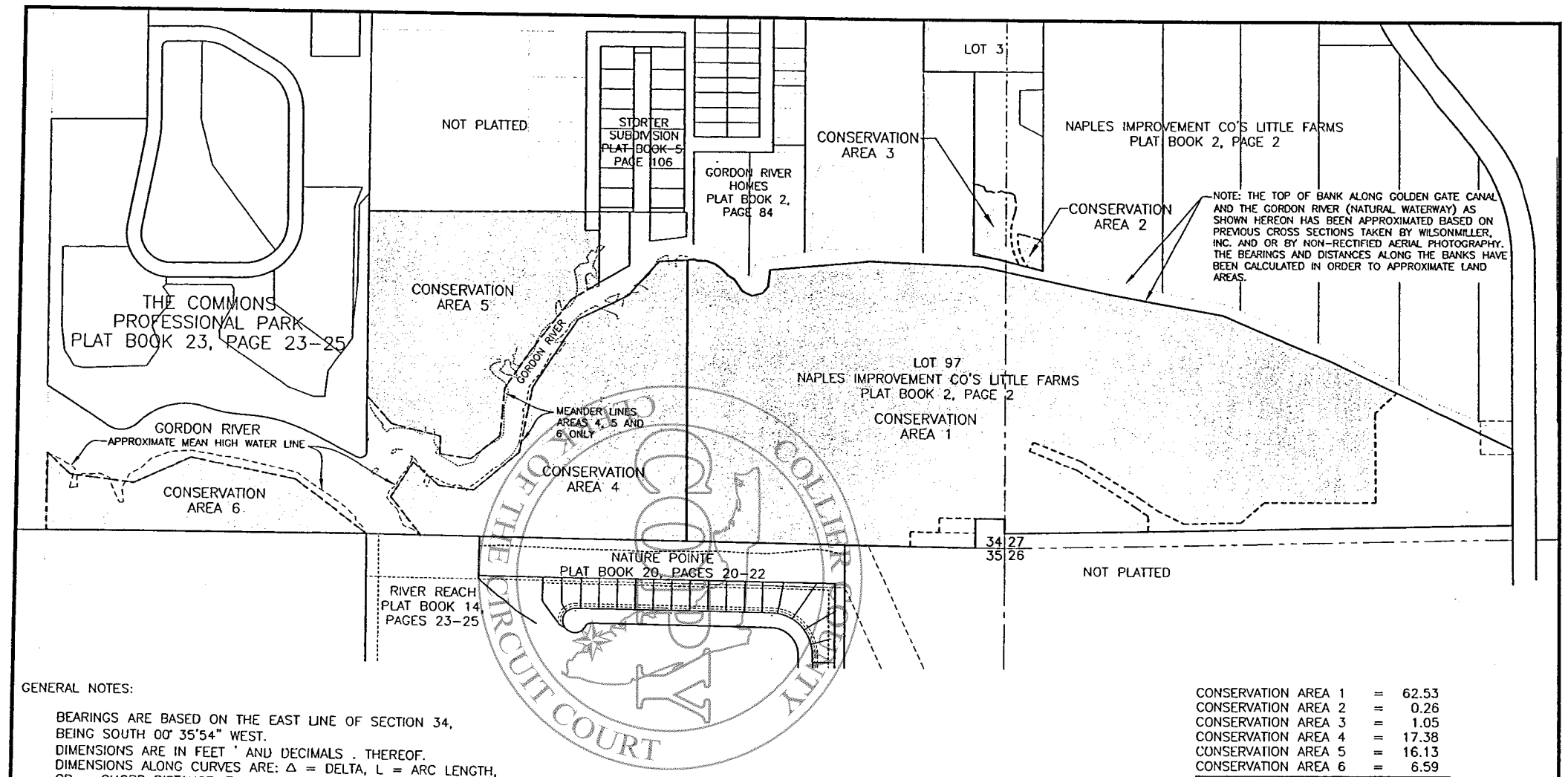
By: _____ Date: February 22, 2012
John P. Maloney, Professional Surveyor and Mapper #LS4493

Ref: 2G-839

Not valid unless embossed with the Professional's seal.

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

EXHIBIT B
Page 5 of 9



GENERAL NOTES:

BEARINGS ARE BASED ON THE EAST LINE OF SECTION 34, BEING SOUTH 00° 35'54" WEST.
DIMENSIONS ARE IN FEET ' AND DECIMALS . THEREOF.
DIMENSIONS ALONG CURVES ARE: Δ = DELTA, L = ARC LENGTH, CD = CHORD DISTANCE, T = TANGENT, R = RADIUS, CB = CHORD BEARING
P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING
R.O.W. = RIGHT-OF-WAY, A.E. = ACCESS EASEMENT,
D.E. = DRAINAGE EASEMENT, P.U.E. = PUBLIC UTILITY EASEMENT,

CONSERVATION AREA 1	=	62.53
CONSERVATION AREA 2	=	0.26
CONSERVATION AREA 3	=	1.05
CONSERVATION AREA 4	=	17.38
CONSERVATION AREA 5	=	16.13
CONSERVATION AREA 6	=	6.59
TOTAL CONSERVATION AREA	=	103.94

*** NOT A SURVEY ***

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M #LS4493

WilsonMiller Stantec
3200 Bailey Ln., Suite 200, Naples, Florida 34105
Phone 239-649-4040 • Fax 239-643-5716 • Web-Site www.stantec.com
Certificate of Authorization #43 • Florida License #LC-C000170

DATE: 02/12	CLIENT: COLLIER COUNTY PARKS AND RECREATION			
SCALE: 1"=400'	DESCRIPTION: SKETCH OF DESCRIPTION CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA			
CROSS REF. FILE NO.: 4G-1367, 4G-1371	PROJECT NO. & WORK ORDER NO.: 03259 215610771	SHEET NUMBER: 1 OF	FILE NO.: 2G-839	

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EXHIBIT B
Page 7 of 9

SIORTER SUBDIVISION PLAT BOOK 5, PAGE 106

GORDON RIVER HOMES PLAT BOOK 2, PAGE 84

CONSERVATION AREA 3

LOT 2

LOT 3

THE CONSERVANCY OF S.W. FLORIDA O.R. BOOK 767, PAGE 248

LOT 4

LOT 5

LOT 6

LOT 7

NAPLES IMPROVEMENT CO'S LITTLE FARMS PLAT BOOK 2, PAGE 2

P.O.B. CONSERVATION AREA 3

CONSERVATION AREA 2

P.O.B. CONSERVATION AREA 2

GORDON RIVER

POINT "B"

NOTE: THE TOP OF BANK ALONG GOLDEN GATE CANAL AND THE GORDON RIVER (NATURAL WATERWAY) AS SHOWN HEREON HAS BEEN APPROXIMATED BASED ON PREVIOUS CROSS SECTIONS TAKEN BY WILSONMILLER, INC. AND OR BY NON-RECTIFIED AERIAL PHOTOGRAPHY. THE BEARINGS AND DISTANCES ALONG THE BANKS HAVE BEEN CALCULATED IN ORDER TO APPROXIMATE LAND AREAS.

LOT 8

LOT 9

CONSERVATION AREA 4

LOT 97
NAPLES IMPROVEMENT CO'S LITTLE FARMS
PLAT BOOK 2, PAGE 2

CONSERVATION AREA 1

P.O.B. CONSERVATION AREA 1

POINT "A"

S 00°36'24"W 662.11'

EAST LINE SECTION 34

RIGHT-OF-WAY EASEMENT O.R. BOOK 4097, PAGE 661

RIGHT-OF-WAY EASEMENT, O.R. BOOK 4097, PAGE 661

F.D.E.R. CONSERVATION EASEMENT (O.R. 1679, PAGES 1339-1345)

TRACT "C" DRAINAGE EASEMENT

NATURE POINTE
PLAT BOOK 20, PAGES 20-22

160' DRAINAGE EASEMENT O.R. BOOK 121, PAGE 159

RIGHT-OF-WAY EASEMENT O.R. BOOK 1535, PAGE 2342-2346

34 27
35 26

NOT PLATTED

P.O.C.
NORTHEAST CORNER SECTION 34
TOWNSHIP 49 SOUTH, RANGE 25 EAST,
COLLIER COUNTY, FLORIDA.

SCALE: 1"= 250'
0 250 500
SCALE IN FEET

SEE SHEET 3 FOR ANNOTATION TABLE

*** NOT A SURVEY ***

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M. #LS4493

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Phone 239-649-4040 • Fax 239-643-5716 • Web-Site www.stantec.com
Certificate of Authorization #43 • Florida License #LC-C000170

DATE: 02/12	CLIENT: COLLIER COUNTY PARKS AND RECREATION
SCALE: 1"=250'	DESCRIPTION: SKETCH OF DESCRIPTION CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA
CROSS REF. FILE NO.: 4G-1367, 4G-1371	PROJECT NO. & WORK ORDER NO: 03259 215610771
SHEET NUMBER: 2 OF ___	FILE NO.: 2G-839

EXHIBIT B
Page 8 of 9

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD DIST.
C1	47°26'04"	179.32	148.46	78.78	S72°29'12"W	144.26
C2	6°34'06"	38.00	4.36	2.18	N31°54'35"E	4.35
C3	45°56'06"	11.50	9.22	4.87	N05°39'29"E	8.97
C4	67°17'09"	38.00	44.63	25.29	N05°01'02"W	42.11
C5	23°05'14"	32.22	12.98	6.58	N85°29'43"E	12.89
C6	35°32'05"	100.00	62.02	32.04	N88°16'52"E	61.03
C7	50°52'18"	243.31	216.03	115.72	N84°03'01"E	209.01

LINE DATA

LINE	BEARING	DISTANCE
L1	S00°35'54"W	390.01
L2	S00°35'54"W	272.19
L3	S89°30'42"W	1150.59
L4	N06°35'53"W	27.14
L5	N18°26'38"E	14.90
L6	N00°00'00"E	37.70
L7	N19°02'05"E	36.15
L8	N35°46'04"E	36.30
L9	N45°00'53"E	36.67
L10	N31°41'50"E	30.57
L11	N53°40'09"E	58.81
L12	N24°43'09"E	42.34
L13	N14°06'34"W	47.07
L14	N49°41'48"W	37.43
L15	N83°36'45"W	67.00
L16	N05°29'23"W	425.38
L17	N02°15'40"E	465.17
L18	N11°44'08"E	533.83
L19	N09°52'42"E	481.60
L20	N22°13'57"E	494.19
L21	N25°21'04"E	297.36
L22	S43°48'06"E	119.68
L23	N89°29'59"E	368.52
L24	S00°11'13"E	461.26
L25	S39°45'16"E	128.55
L26	S01°14'14"E	241.06
L27	S25°19'28"W	115.53
L28	S33°52'59"W	87.82
L29	S32°02'14"W	289.41
L30	S21°33'08"W	216.41
L31	S68°26'52"E	40.00
L32	N21°33'08"E	212.74
L33	N32°02'14"E	285.10
L34	N33°52'59"E	59.68
L35	N88°45'46"E	64.81

LINE DATA

LINE	BEARING	DISTANCE
L36	S01°14'09"E	590.46
L37	S89°46'05"W	60.00
L38	S00°37'53"W	269.23
L39	S89°24'06"E	60.12
L40	S00°35'54"W	119.05
L41	S89°24'06"E	60.02
L42	N03°06'12"E	247.10
L43	N13°50'44"E	24.73
L44	N15°37'42"E	67.49
L45	N56°33'03"E	22.56
L46	N89°40'10"E	109.05
L47	S13°47'20"W	60.40
L48	S52°10'55"W	59.84
L49	S89°40'31"W	289.89
L50	N08°17'19"E	23.82
L51	N28°37'32"E	3.19
L52	N63°19'18"E	23.50
L53	N00°20'29"E	14.77
L54	N16°27'25"W	4.07
L55	N28°37'32"E	2.73
L56	N42°10'40"E	1.26
L57	N32°01'25"E	5.42
L58	N22°21'16"E	5.67
L59	N13°08'35"E	6.64
L60	N03°20'11"E	7.41
L61	N00°00'25"W	5.64
L62	N14°02'44"E	4.15
L63	N09°54'41"E	4.60
L64	N21°24'48"E	5.71
L65	N25°47'06"E	4.63
L66	N36°22'51"E	6.20
L67	N38°24'53"E	3.63
L68	S13°47'20"W	89.02
L69	S08°57'31"W	102.74

THE CIRCUIT COURT OF THE TWENTIETH JUDICIAL CIRCUIT COLLIER COUNTY

*** NOT A SURVEY ***

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M. #LS4493

WilsonMiller Stantec
3200 Bailey Ln., Suite 200, Naples, Florida 34105
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Certificate of Authorization #43 • Florida License #LC-C000170

DATE:	02/12
SCALE:	1"=250'
CROSS REF. FILE NO.:	
CLIENT:	COLLIER COUNTY PARKS AND RECREATION
DESCRIPTION:	SKETCH OF DESCRIPTION CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA
PROJECT NO. & WORK ORDER NO.	03259 215610771
SHEET NUMBER:	3 OF
FILE NO.:	2G-839

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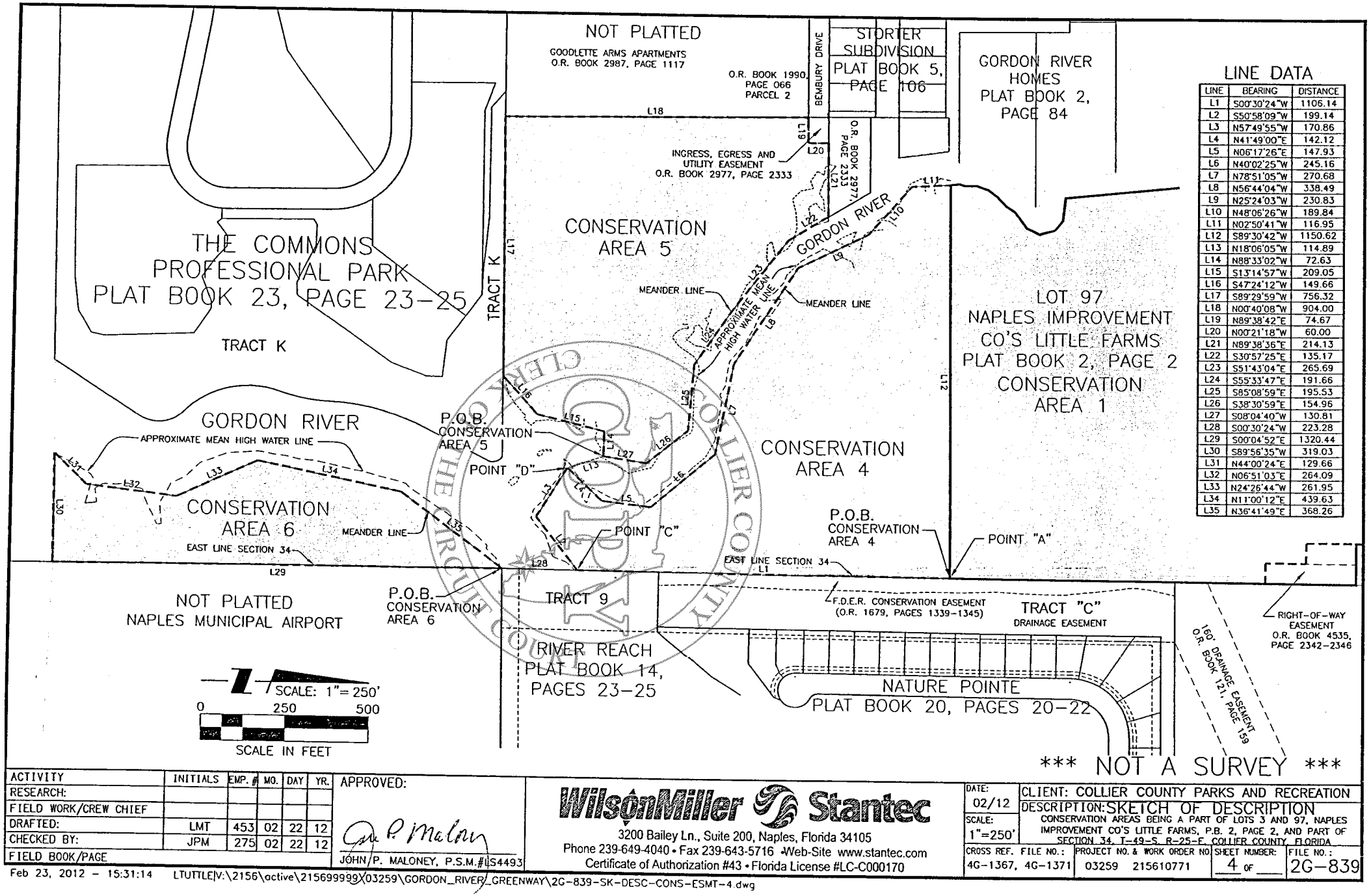
EXHIBIT B
Page 9 of 9



LINE DATA

LINE	BEARING	DISTANCE
L1	S00°30'24"W	1106.14
L2	S50°58'09"W	199.14
L3	N57°49'55"W	170.86
L4	N41°49'00"E	142.12
L5	N06°17'26"E	147.93
L6	N40°02'25"W	245.16
L7	N78°51'05"W	270.68
L8	N56°44'04"W	338.49
L9	N25°24'03"W	230.83
L10	N48°06'26"W	189.84
L11	N02°50'41"W	116.95
L12	S89°30'42"W	1150.62
L13	N18°06'05"W	114.89
L14	N88°33'02"W	72.63
L15	S13°14'57"W	209.05
L16	S47°24'12"W	149.66
L17	S89°29'59"W	756.32
L18	N00°40'08"W	904.00
L19	N89°38'42"E	74.67
L20	N00°21'18"W	60.00
L21	N89°38'36"E	214.13
L22	S30°57'25"E	135.17
L23	S51°43'04"E	265.69
L24	S55°33'47"E	191.66
L25	S85°08'59"E	195.53
L26	S38°30'59"E	154.96
L27	S08°04'40"W	130.81
L28	S00°30'24"W	223.28
L29	S00°04'52"E	1320.44
L30	S89°56'35"W	319.03
L31	N44°00'24"E	129.66
L32	N06°51'03"E	264.09
L33	N24°26'44"W	261.95
L34	N11°00'12"E	439.63
L35	N36°41'49"E	368.26

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
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FIELD WORK/CREW CHIEF					
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FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M.#LS4493

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DATE:	02/12
SCALE:	1"=250'
CROSS REF. FILE NO.:	4G-1367, 4G-1371
PROJECT NO. & WORK ORDER NO.	03259 215610771
SHEET NUMBER:	4 of ___
FILE NO.:	2G-839

CLIENT: COLLIER COUNTY PARKS AND RECREATION
DESCRIPTION: SKETCH OF DESCRIPTION
CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA

Feb 23, 2012 - 15:31:14 LTUTTLE|V:\2156\active\215699999\03259\GORDON_RIVER_GREENWAY\2G-839-SK-DESC-CONS-ESMT-4.dwg

Exhibit M-1

Utility and Other Easements

Freedom Park

- Easement (ROW for placement and maintenance of underground water pipelines) in favor of The City of Naples, contained in instrument recorded August 23, 1975, in O.R. Book 617, Page 1216, Public Records of Collier County, Florida.
- Easement in favor of Florida Power & Light Company, contained in instrument recorded August 1, 2001, in O.R. book 2868, Page 3126, Public Records of Collier County, Florida.
- Easement (Utility) in favor of The City of Naples, contained in instrument recorded July 29, 2009, in O.R. Book 4477, Page 634, Public Records of Collier County, Florida.

Gordon River Greenway Park (Including Conservation Collier lands)

- Easement (Weir) in favor of Collier County, contained in instrument recorded September 2, 1975 in O.R. Book 628, Page 1704, Public Records of Collier County, Florida.
- Easement in favor of Florida Power & Light Company, contained in instrument recorded September 9, 1980, in O.R. Book 882, Page 1123, Public Records of Collier County, Florida.
- Easement in favor of City of Naples (Water Main along Golden Gate Parkway), contained in instrument recorded September 8, 1978, in O.R. Book 1771, Page 997, Public Records of Collier County, Florida.

RECORDED
OFFICIAL RECORD BOOK
COLLIER COUNTY, FLORIDA
APR 23 12 23 PM '75
MARGARET T. SCOTT
CLERK OF CIRCUIT COURT
COLLIER COUNTY, FLORIDA

REC 617 PAGE 1216

380413

DEED OF EASEMENT

THIS INDENTURE, made this 15th day of April, 1975, between CHARLES FLEISCHMANN, as Ancillary Executor of the ESTATE OF JULIUS FLEISCHMANN, deceased, Grantor and party of the first part, and THE CITY OF NAPLES, a Florida municipality, whose post office address is City Hall; Naples, Collier County, State of Florida, Grantee.

W I T N E S S E T H T H A T :

For and in consideration of the sum of TEN DOLLARS ($10.00) cash in hand paid, the receipt of which is hereby acknowledged, and the covenants hereinafter contained, the party of the first part has this day conveyed and, by these presents, does grant unto THE CITY OF NAPLES, a permanent easement and right of way, including the perpetual right to enter upon the real estate hereinafter described, at any time that it may see fit, and construct, maintain and repair underground pipelines and/or mains for the purpose of conveying water over, across, through, and under the lands hereinafter described, together with the right to excavate and refill ditches and/or trenches for the location of said pipelines and/or mains, and the further right to remove trees, bushes, undergrowth, and other obstructions interfering with the location, construction, and maintenance of said pipelines and/or mains; provided, however, that the rights hereby granted shall be non-exclusive and, without, in any way, limiting the foregoing provision, Grantor, for himself and his successors and assigns, specifically reserves the right of ingress and egress over the land affected by this grant,

OFF REC 617 PAGE 1217

including the right to place thereon such improvements as roadways, driveways, sidewalks and other paved surfaces and structures which will not permanently interfere with or impair Grantee's enjoyment of the rights herein granted to it; and provided further, that following the completion of any excavation or other disturbance of the surface of the area over which the within granted easement extends which may be required in connection with the construction, maintenance or repair of any facility installed by Grantee or its successors or assigns, in the exercise of the rights hereby granted, Grantee or its successors or assigns shall promptly restore the area and any surface improvements installed thereon by Grantor to the condition existing prior to the commencement of such work.

The land affected by the grant of this easement and right of way is located in the County of Collier, State of Florida, and is more particularly described as follows:

> The East 15 feet of the West 35 feet of that portion of Lot 9 lying North of the East-West portion of State Road S-951 (Goodlette Road) and the East 15 feet of the West 35 feet of Lots 10 and 11, Naples Improvement Co's Little Farms, Plat Book 2, Page 2, Public Records of Collier County, Florida.

To have and to hold said easement and right of way unto THE CITY OF NAPLES, and unto its successor and assigns forever.

The party of the first part does hereby covenant with THE CITY OF NAPLES, that it has good and lawful right to grant this easement.

Additionally, Grantor acknowledges and agrees that neither it, nor its successors or assigns, now have or shall ever acquire any right, title or interest in and to any drains or pipes placed upon this easement by Grantor or Grantee, and

that the Grantee shall be the sole owner thereof, with the right of removal; provided further, however, that if Grantee shall at any future time abandon said easement either by removal of such pipes and drains or the failure to provide water in such pipes or drains for a period of one hundred eighty (180) days, then and in that event this easement shall expire and any right, title or interest herein granted shall revert to the Grantor.

As part of the consideration for this grant, Grantee acknowledges and agrees that, in the event, at any time in the future, Grantor or a successor or assign, desires, for the purpose of providing water or sewer service to any premises now owned by Grantor and abutting the area over which the granted easement extends, to tap into any main or pipeline installed hereunder by Grantee or a successor or assign, Grantor or his successor or assign shall have the privilege of doing so, upon payment of the then applicable charges for tap in and water service. Grantee further warrants that the water line to be installed pursuant to this easement shall be adequate to provide water services to the premises owned by Grantor.

IN WITNESS WHEREOF, Grantor has caused this Deed of Easement to be executed the day and year first above written and his Seal affixed.

Signed, sealed and delivered in our presence,

Virginia L. Jones

Ann C. Sullivan

ESTATE OF JULIUS FLEISCHMANN, Deceased.

By: Charles Fleischmann
As Ancillary Executor

REC 617 PAGE 1219

STATE OF OHIO)
) SS:
COUNTY OF HAMILTON)

I HEREBY CERTIFY that on this day before me, an officer duly qualified to take acknowledgments, personally appeared CHARLES FLEISCHMANN, as Ancillary Executor of the Estate of Julius Fleischmann, deceased, to me known to be the person described in and who executed the foregiong instrument and acknowledged before me that he executed the same as and for the act of the Estate.

WITNESS my hand and official seal in the County and State last aforesaid, this 4th day of February, 1975.

JOHN O. WILLIAMS, JR., Attorney at Law
Notary Public, State of Ohio
My commission has no expiration data
Section 147.03 R. C.

NOTARY PUBLIC

DOCUMENTARY SURTAX
FLORIDA
APR 23 '75
00.55

STATE OF FLORIDA
DOCUMENTARY STAMP TAX
DEPT. OF REVENUE
APR 23 '75
00.30

Recorded in Official Records Book
of COLLIER COUNTY, FLORIDA
MARGARET T. SCOTT
Clerk of Circuit Court

2835648 OR: 2868 PG: 3126
RECORDED in OFFICIAL RECORDS of COLLIER COUNTY, FL
08/01/2001 at 12:33PM DWIGHT B. BROCK, CLERK
CONS 521783.00
REC FEE 28.50
DOC-.70 3652.60

This instrument prepared by:
DANIEL H. COX, ESQ.
Young, van Assenderp, Varnadoe
& Anderson, P.A.
801 Laurel Oak Drive, Suite 300
Naples, FL 34108

Retn:ATTENTION: MARK BYERS
FLORIDA POWER & LIGHT
P O BOX 1119
SARASOTA FL 34230

GRANT OF EASEMENT

THIS GRANT OF EASEMENT is entered into by and between Joan F. Tobin, as Personal Representative of the Estate of Dorette K. Fleischman, deceased, whose mailing address is 1850 K Street N.W., Suite 380, Washington, D.C. 20006-2217, hereinafter "Grantor", and Florida Power and Light Company, a corporation, organized and existing under the laws of the State of Florida, whose mailing address is P.O Box 14000 Juneau Beach, Florida 33408-0420, hereinafter "Grantee."

RECITALS:

1. Grantor is the owner of certain real property in Collier County, Florida, consisting of portions of Lot 9 and Lot 97, Naples Improvement Companies Little Farms, as according to the Plat thereof, recorded at Plat Book 2, Page 2, of the Public Records of Collier County, Florida.

2. Grantee, under the Easement recorded in Official Records 171, Page 431, of the Public Records on Collier County, Florida, is the holder of an Easement encumbering portions of said Lot 9 and Lot 97 (the "Existing Easement").

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

NOW THEREFORE in consideration in the sum of TEN DOLLARS ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby conclusively acknowledged, each to the other, the parties hereby agree as follows:

A. Grantor hereby grants to Grantee, its successors and assignees, a perpetual, and non- exclusive easement for right-of-way, ranging from 26 feet in width to 80.4 feet in width, all as more particularly described in the legal description, attached hereto as Exhibit "A" (the "Property"), and shown on the sketch attached hereto as Exhibit "B". Both Exhibits are hereby incorporated by reference.

B. The Easement shall be for purposes of installing, constructing, maintaining and operating, transmission and distribution lines over, under, in, on, upon and across the Property, and with all rights, and privileges necessary or convenient for the full enjoyment or use thereof for the herein described purposes, including but not limited to, (i) the right to cut, and keep clear all trees and undergrowth and other obstructions within said right-of-way and on lands of the Grantor adjoining said right-of-way, that may interfere with the proper construction, operation and maintenance of such Facilities or any part of them; (ii) the right to mark the location of any underground facilities by above-ground and other suitable markers; (iii) the right from time to time to reconstruct, inspect, change the voltage or replace such facilities or any part of them upon, across, over or under the above described right-of-way, (iv) and the right of ingress and egress, for personnel and equipment of Grantee, its contractors, agents, successors or assignees over the adjoining lands of the Grantor for the purpose of exercising and enjoying the rights granted by this Easement and any and all other rights granted hereunder.

C. Grantor reserves the right and privilege to use the above-described right-of-way, for such other purposes, except as herein granted, or as might interfere or be inconsistent with the use, occupation, operation, maintenance and enjoyment thereof, by Grantee, its successors or assignees or as might cause a hazardous condition, and that no building, well, structure, or obstruction shall be located, constructed, maintained or operated over, under, upon or across said right-of-way by the Grantor, or the heirs, personal representatives, successors or assigns of Grantor.

D. Grantor has the right to convey this Easement and that the Grantee, its successors and assignees shall have quiet and peaceful possession, use and enjoyment of this Easement and the rights granted hereby.

IN WITNESS WHEREOF the Grantor(s) has (have) executed this Grant of Easement on this 11th day of July, 2001.

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

WITNESSES:

Joan F. Tobin, as Personal Representative, of the Estate of Dorette K. Fleischman

Lisa Paul
Witness

Joan F. Tobin
Joan F. Tobin

Lisa Paul
Print Name

Pauline H Clarke
Witness

Pauline H Clarke
Print Name

(Acknowledgement on following page)

ACKNOWLEDGEMENT

STATE OF Florida
COUNTY OF Collier

The foregoing Grant of Easement was acknowledged before me this 11 day of July, 2001, by Joan F. Tobin, as Personal Representative, of the Estate of Dorette K. Fleischman, on behalf of the Estate. She ☒ is personally known to me or [_] has produced _____ as identification.

Saundra Thomas
Commission # CC 866572
Expires Aug. 26, 2003
Bonded Thru
Atlantic Bonding Co., Inc.

Saundra Thomas

Print Name Saundra Thomas
Notary Public
My Commission Expires:

(Seal)

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

WilsonMiller

New Directions In Planning, Design & Engineering

DESCRIPTION OF PART OF LOT 9,
NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS,
PLAT BOOK 2, PAGE 2, COLLIER COUNTY, FLORIDA.
(FLORIDA POWER AND LIGHT EASEMENT)

DESCRIPTION OF PART OF LOTS 9 AND 97 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS, PLAT BOOK 2, PAGE 2, COLLIER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE EAST 1/4 CORNER OF SECTION 27, TOWNSHIP 49 SOUTH RANGE 25 EAST, COLLIER COUNTY, FLORIDA.
THENCE ALONG THE EAST LINE OF SAID SECTION 27 SOUTH 01°13'44" EAST 403.20 FEET TO A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF GOLDEN GATE PARKWAY (COUNTY ROAD 886) AND THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED;
THENCE ALONG SAID NORTHERLY RIGHT OF WAY LINE OF GOLDEN GATE PARKWAY SOUTH 89°40'10" WEST 306.99 FEET;
THENCE NORTH 28°33'27" EAST 22.84 FEET;
THENCE SOUTH 89°40'10" WEST 106.61 FEET;
THENCE SOUTH 00°48'54" EAST 9.00 FEET;
THENCE SOUTH 89°40'10" WEST 747.50 FEET;
THENCE SOUTHWESTERLY 394.25 FEET ALONG THE ARC OF A TANGENTIAL CIRCULAR CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 848.95 FEET, THROUGH A CENTRAL ANGLE OF 26°36'29" AND BEING SUBTENDED BY A CHORD WHICH BEARS SOUTH 76°21'56" WEST 390.72 FEET;
THENCE SOUTH 63°03'41" WEST 390.77 FEET TO A POINT ON THE SOUTHERLY LINE OF SAID LOT 9;
THENCE ALONG SAID LINE SOUTH 89°39'59" WEST 735.00 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF GOODLETTE-FRANK ROAD (C.R. 851);
THENCE ALONG SAID RIGHT OF WAY LINE NORTH 00°16'50" WEST 50.00 FEET;
THENCE LEAVING SAID RIGHT OF WAY LINE NORTH 89°39'59" EAST 599.95 FEET;
THENCE NORTH 00°20'01" WEST 20.00 FEET;
THENCE NORTH 89°39'59" EAST 118.45 FEET;
THENCE NORTH 63°03'41" EAST 518.37 FEET;
THENCE NORTH 89°40'10" EAST 1436.44 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 27;
THENCE ALONG SAID LINE SOUTH 01°13'44" EAST 46.03 FEET TO THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED.

COLLIER COUNTY
CLERK OF THE CIRCUIT COURT
COPY

PARCEL CONTAINS 3.0 ACRES MORE OR LESS.
BEARINGS ARE BASED ON THE NORTHERLY LINE OF SAID GOLDEN GATE BOULEVARD BEING SOUTH 89°40'10" WEST.
SUBJECT TO EASEMENTS, RESERVATIONS AND RESTRICTIONS OF RECORD.
CERTIFICATE OF AUTHORIZATION # LB-43.

WILSONMILLER, INC.
REGISTERED ENGINEERS AND LAND SURVEYORS.

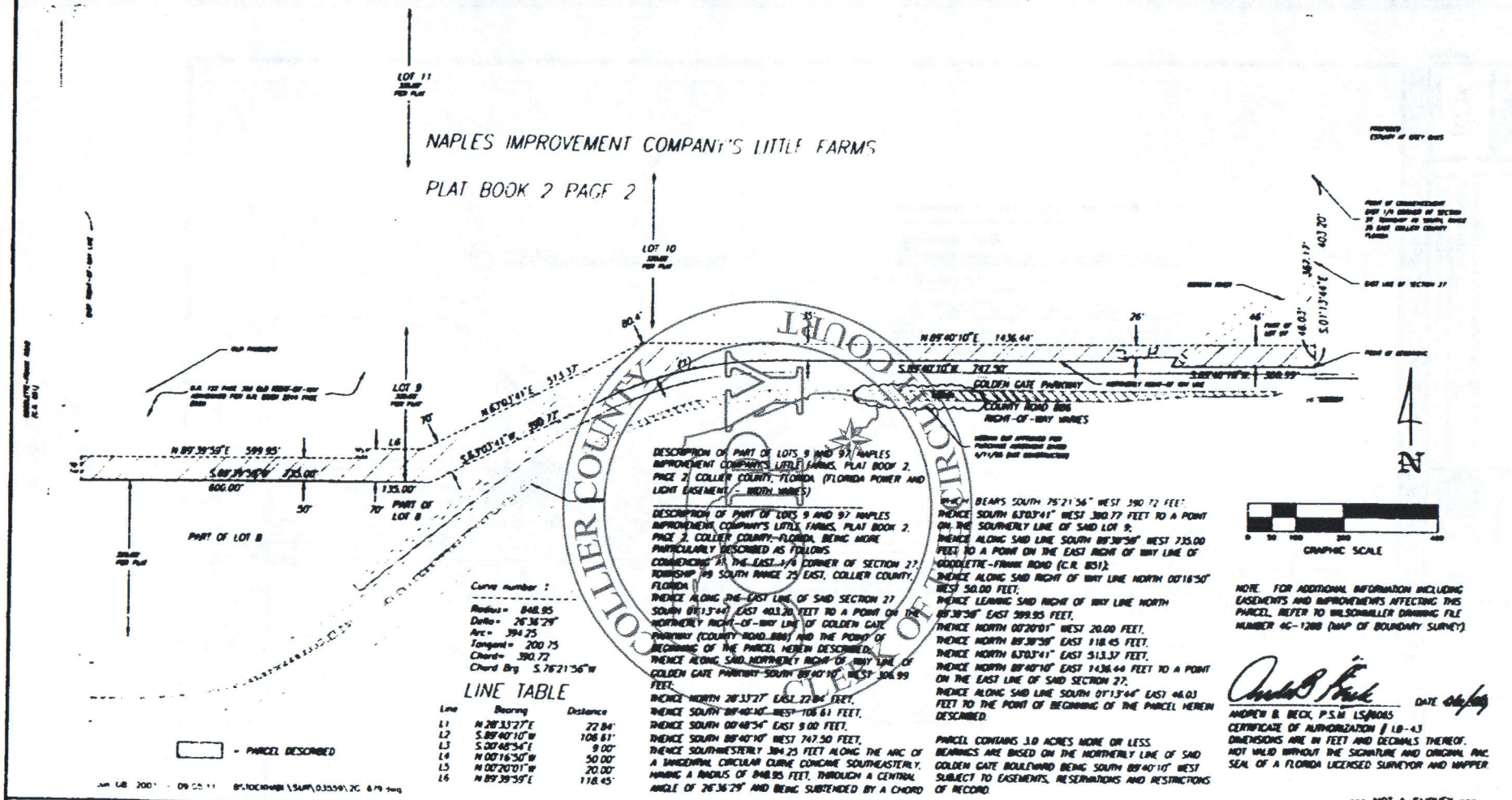
BY: Andrew B. Beck DATE: 06/08/2001
ANDREW B. BECK PSM #6065

NOT VALID UNLESS EMBOSSED WITH THE PROFESSIONAL'S SEAL.

REF. 2G-679
PIN: 03559-000-501-GCSOO
DATE: 6/08/01

EXHIBIT "A"

EXHIBIT "B"



Curve number 1:

Radius = 848.95
Delta = 26°36'29"
Arc = 394.25
Tangent = 200.75
Chord = 390.72
Chord Brg S 76°21'56" W

LINE TABLE

Line	Bearing	Distance
L1	N 28°33'27" E	22.84'
L2	S 89°40'10" W	106.61'
L3	S 00°48'54" E	9.00'
L4	N 00°16'50" W	50.00'
L5	N 00°20'01" W	20.00'
L6	N 89°39'59" E	118.45'

DESCRIPTION OF PART OF LOTS 9 AND 97 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS, PLAT BOOK 2, PAGE 2, COLLIER COUNTY, FLORIDA (FLORIDA POWER AND LIGHT EASEMENT - WITH WIRES)

DESCRIPTION OF PART OF LOTS 9 AND 97 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS, PLAT BOOK 2, PAGE 2, COLLIER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST 1/4 CORNER OF SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA;
THENCE ALONG THE EAST LINE OF SAID SECTION 27 SOUTH 01°13'44" EAST 403.20 FEET TO A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF GOLDEN GATE PARKWAY (COUNTY ROAD 886) AND THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED;
THENCE ALONG SAID NORTHERLY RIGHT-OF-WAY LINE OF GOLDEN GATE PARKWAY SOUTH 89°40'10" WEST 106.99 FEET;
THENCE NORTH 28°33'27" EAST 22.84 FEET;
THENCE SOUTH 89°40'10" WEST 106.61 FEET;
THENCE SOUTH 00°48'54" EAST 9.00 FEET;
THENCE SOUTH 89°40'10" WEST 747.50 FEET;
THENCE SOUTHWESTERLY 394.25 FEET ALONG THE ARC OF A TANGENTIAL CIRCULAR CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 848.95 FEET, THROUGH A CENTRAL ANGLE OF 26°36'29" AND BEING SUBTENDED BY A CHORD WHICH BEARS SOUTH 76°21'56" WEST 390.72 FEET;
THENCE SOUTH 63°03'41" WEST 390.77 FEET TO A POINT ON THE SOUTHERLY LINE OF SAID LOT 9;
THENCE ALONG SAID LINE SOUTH 89°39'59" WEST 735.00 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF GOODLETTE-FRANK ROAD (C.R. 851);
THENCE ALONG SAID RIGHT OF WAY LINE NORTH 00°16'50" WEST 50.00 FEET;
THENCE LEAVING SAID RIGHT OF WAY LINE NORTH 89°39'59" EAST 599.95 FEET;
THENCE NORTH 00°20'01" WEST 20.00 FEET;
THENCE NORTH 89°39'59" EAST 118.45 FEET;
THENCE NORTH 63°03'41" EAST 513.37 FEET;
THENCE NORTH 89°40'10" EAST 1436.44 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 27;
THENCE ALONG SAID LINE SOUTH 01°13'44" EAST 46.03 FEET TO THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED.

PARCEL CONTAINS 3.0 ACRES MORE OR LESS.
BEARINGS ARE BASED ON THE NORTHERLY LINE OF SAID GOLDEN GATE BOULEVARD BEING SOUTH 89°40'10" WEST
SUBJECT TO EASEMENTS, RESERVATIONS AND RESTRICTIONS OF RECORD.

NOTE: FOR ADDITIONAL INFORMATION INCLUDING EASEMENTS AND IMPROVEMENTS AFFECTING THIS PARCEL, REFER TO WILSONMILLER DRAWING FILE NUMBER 4C-1288 (MAP OF BOUNDARY SURVEY)

ANDREW B. BECK, P.S.M. LS#6065
CERTIFICATE OF AUTHORIZATION # LB-43
DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DATE 6/8/01

*** NOT A SURVEY ***

ACTIVITY	INITIALS/EMP NO	DATE
RESEARCH		
FIELD WORK/CREW CHIEF		
DRAWN BY	BES/925	4-01
CHECKED BY	DB/1307	4-01

APPROVED: 06/08/01

WilsonMiller

Planners • Engineers • Ecologists • Surveyors • Landscape Architects • Transportation Consultants

WilsonMiller, Inc

DATE	6/08/01
SCALE	1" = 200'
CLIENT	NEAPOLITAN ENTERPRISES
TITLE	SKETCH OF DESCRIPTION PART OF LOTS 9 AND 97 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS, PLAT BOOK 2, PAGE 2, COLLIER COUNTY, FLORIDA, SECTION 27, TOWNSHIP 49 S., RANGE 25 E (FLORIDA POWER AND LIGHT EASEMENT)

CROSS REFERENCE FILE NO | PROJECT NO | SHEET NUMBER | OF

INSTR 4325165 OR 4477 PG 634 RECORDED 7/29/2009 4:30 PM PAGES 11
DWIGHT E. BROCK, COLLIER COUNTY CLERK OF THE CIRCUIT COURT
DOC@.70 $0.70 REC $95.00
CONS $0.00

Prepared without opinion of title by:
Jeff E. Wright, Assistant County Attorney
Office of the Collier County Attorney
3301 Tamiami Trail East, 8th Floor
Naples, Florida 34112
239-252-8400

[Space above This Line for Recording Data]

UTILITY EASEMENT

THIS UTILITY EASEMENT made and entered into this 28th day of July, 2009, by and between Collier County (the "Grantor"), whose mailing address is 3301 Tamiami Trail East, Building F, Naples, Florida 34112, and the City of Naples, 735 8th Street South, Naples, Florida 34102, a municipal corporation of the State of Florida, its successors and assigns (the "Grantee").

(Wherever used herein, the terms "Grantor" and "Grantee" include all the parties to this instrument and their respective heirs, legal representatives, successors and assign and are used for singular or plural, as the context requires.)

COLLIER COUNTY COPY CLERK OF THE CIRCUIT COURT

WITNESSETH

WHEREAS, the Grantor, for and in consideration of the sum of TEN AND NO/100THS DOLLARS ($10.00) and other good and valuable considerations paid by the Grantee, receipt of which is hereby acknowledged by Grantor, hereby conveys, grants, bargains and sells unto the Grantee, its successors and assigns, a perpetual, non-exclusive easement, license, right and privilege to enter upon and to install, operate, relocate, repair, replace and/or maintain utility facilities and/or system(s) in, upon, over or under the following described lands being located in Collier County, Florida, to wit:

See attached Exhibit "A" attached hereto and incorporated herein by reference.

TO HAVE AND TO HOLD the same unto the Grantee, together with the right to enter upon said land to place, excavate, relocate and/or take materials for the purpose of constructing, operating, relocating, repairing and/or otherwise maintaining utility facilities and/or system(s) thereon. The easement granted herein shall constitute easements running with the land and shall burden the lands described above.

IN WITNESS WHEREOF, the Grantor has caused these presents to be executed the day and year first above written.

ATTEST:
DWIGHT E. BROCK, Clerk

By: _____
Deputy Clerk

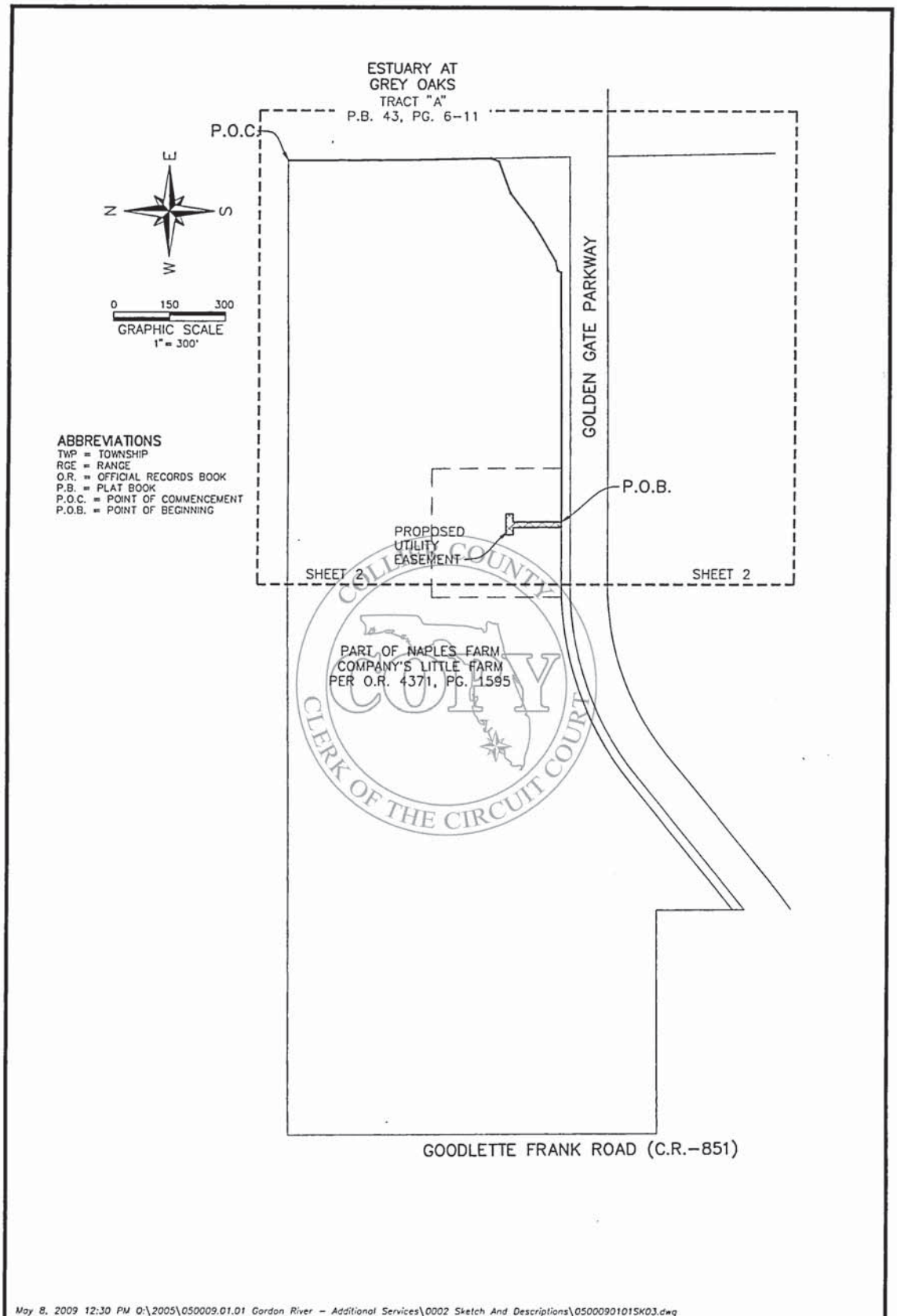
BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

_____
DONNA FIALA, CHAIRMAN

Approved as to form and legal sufficiency:

By: _____
Jeff E. Wright
Assistant County Attorney

COLLIER COUNTY COPY CLERK OF THE CIRCUIT COURT



ABBREVIATIONS
TWP = TOWNSHIP
RGE = RANGE
O.R. = OFFICIAL RECORDS BOOK
P.B. = PLAT BOOK
P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

May 8, 2009 12:30 PM O:\2005\050009.01.01 Gordon River - Additional Services\0002 Sketch And Descriptions\0500090101SK03.dwg

RWA CONSULTING INC.
Planning
Visualization
Civil Engineering
Surveying & Mapping
6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

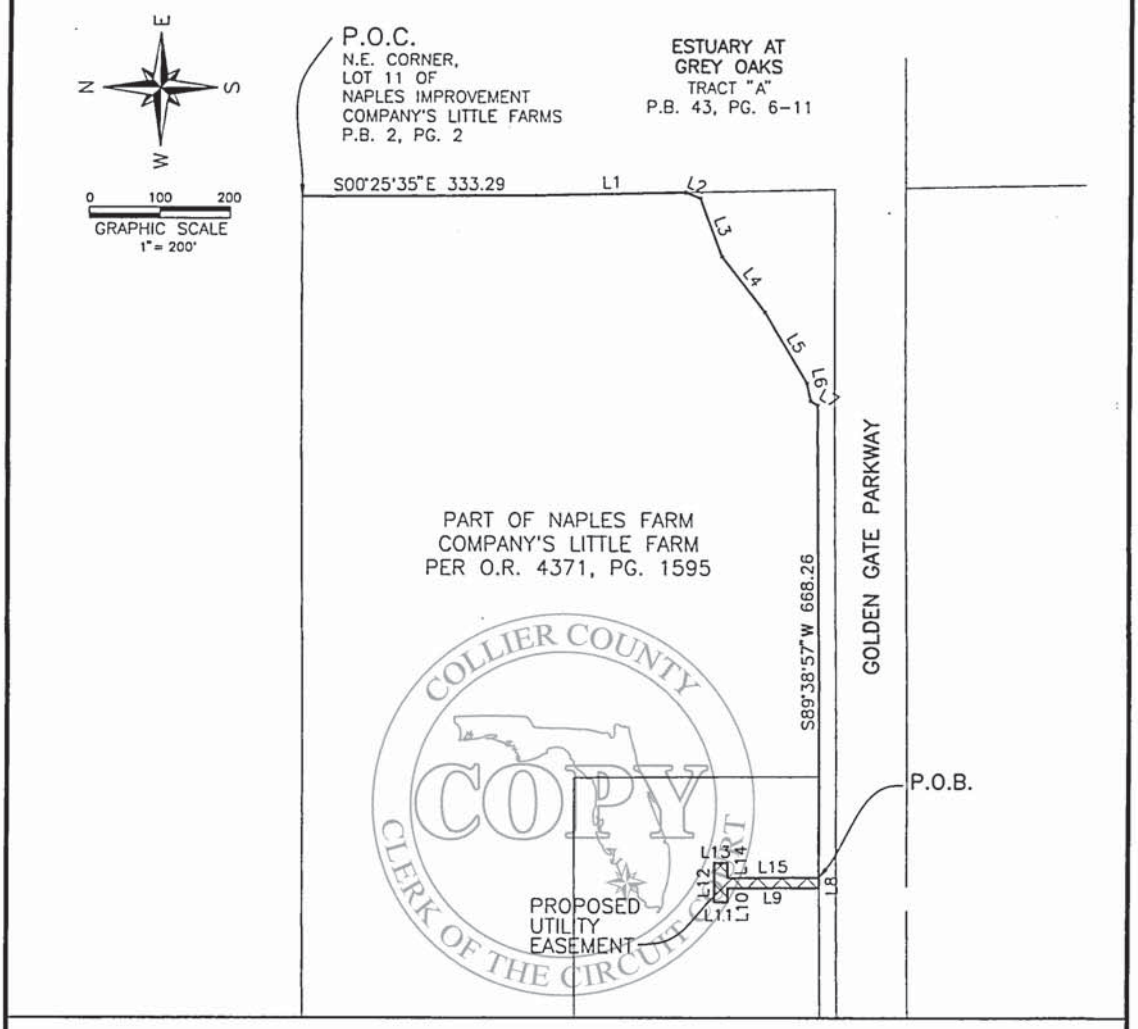
DATE:	5/07/09
SCALE:	N/A
DRAWN BY:	RY
CHECKED BY:	MAW
SEC: 27 TWP: 49S RGE: 25E	

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER: 050009.01.01 | SHEET NUMBER: 1 OF 3 | FILE NUMBER:

5/27/09



LINE TABLE		
LINE	BEARING	LENGTH
L1	S01°14'57"E	214.12
L2	S20°04'54"W	22.16
L3	S69°07'51"W	89.80
L4	S52°21'09"W	101.40
L5	S58°56'05"W	117.67
L6	S77°41'52"W	25.39
L7	S28°31'08"W	11.42
L8	S89°38'57"W	15.00
L9	N00°21'03"W	130.11
L10	S89°38'57"W	20.29
L11	N00°21'03"W	19.12
L12	N89°38'57"E	57.09
L13	S00°21'03"E	19.12
L14	S89°38'57"W	21.80
L15	S00°21'03"E	130.11

May 11, 2009 1:53 PM O:\2005\050009.01.01 Gordon River - Additional Services\0002 Sketch And Descriptions\0500090101SK03.dwg

RWA CONSULTING INC.
Planning
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6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE: 5/07/09
SCALE: N/A
DRAWN BY: RY
CHECKED BY: MAW
SEC: 27 TWP: 49S RGE: 25E

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER: 050009.01.01
SHEET NUMBER: 2 OF 3
FILE NUMBER: SK03

LEGAL DESCRIPTION
(UTILITY EASEMENT)

A PARCEL OF LAND LYING IN SECTION 27, TOWNSHIP 49S, RANGE 25E, COLLIER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 11 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 2, OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA;

THENCE S.00°25'35"E. FOR 333.29 FEET;
THENCE S.01°14'57"E. FOR 214.12 FEET;
THENCE S.20°04'54"W. FOR 22.16 FEET;
THENCE S.69°07'51"W. FOR 89.80 FEET;
THENCE S.52°21'09"W. FOR 101.40 FEET;
THENCE S.58°56'05"W. FOR 117.67 FEET;
THENCE S.77°41'52"W. FOR 25.39 FEET;
THENCE S.28°31'08"W. FOR 11.42 FEET TO A POINT LYING ON THE NORTH RIGHT OF WAY OF GOLDEN GATE PARKWAY PER O.R. BOOK 2053, PAGE 1671, AND O.R. BOOK 2053, PAGE 1687;
THENCE S.89°38'57"W. ALONG SAID RIGHT OF WAY LINE FOR 668.26 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL HEREIN DESCRIBED;

THENCE CONTINUE S.89°38'57"W. FOR 15.00 FEET;
THENCE N.00°21'03"W. FOR 130.11 FEET;
THENCE S.89°38'57"W. FOR 20.29 FEET;
THENCE N.00°21'03"W. FOR 19.12 FEET;
THENCE N.89°38'57"E. FOR 57.09 FEET;
THENCE S.00°21'03"E. FOR 19.12 FEET;
THENCE S.89°38'57"W. FOR 21.80 FEET;
THENCE S.00°21'03"E. FOR 130.11 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL DESCRIBED HEREIN.

CONTAINING 3,043 SQUARE FEET MORE OR LESS.

PREPARED BY: RWA, INC.
FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 6952

BY: _____
MICHAEL A. WARD, PROFESSIONAL SURVEYOR AND MAPPER LS#5301

SIGNING DATE: 5/11/09

SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

BEARINGS ARE BASED ON THE NORTH RIGHT OF WAY LINE OF SAID GOLDEN GATE PARKWAY AS BEING S.89°38'57"W.

COLLIER COUNTY COPY CLERK OF THE CIRCUIT COURT

May 8, 2009 12:20 PM O:\2005\050009.01.01 Gordon River – Additional Services\0002 Sketch And Descriptions\0500090101SK03.dwg

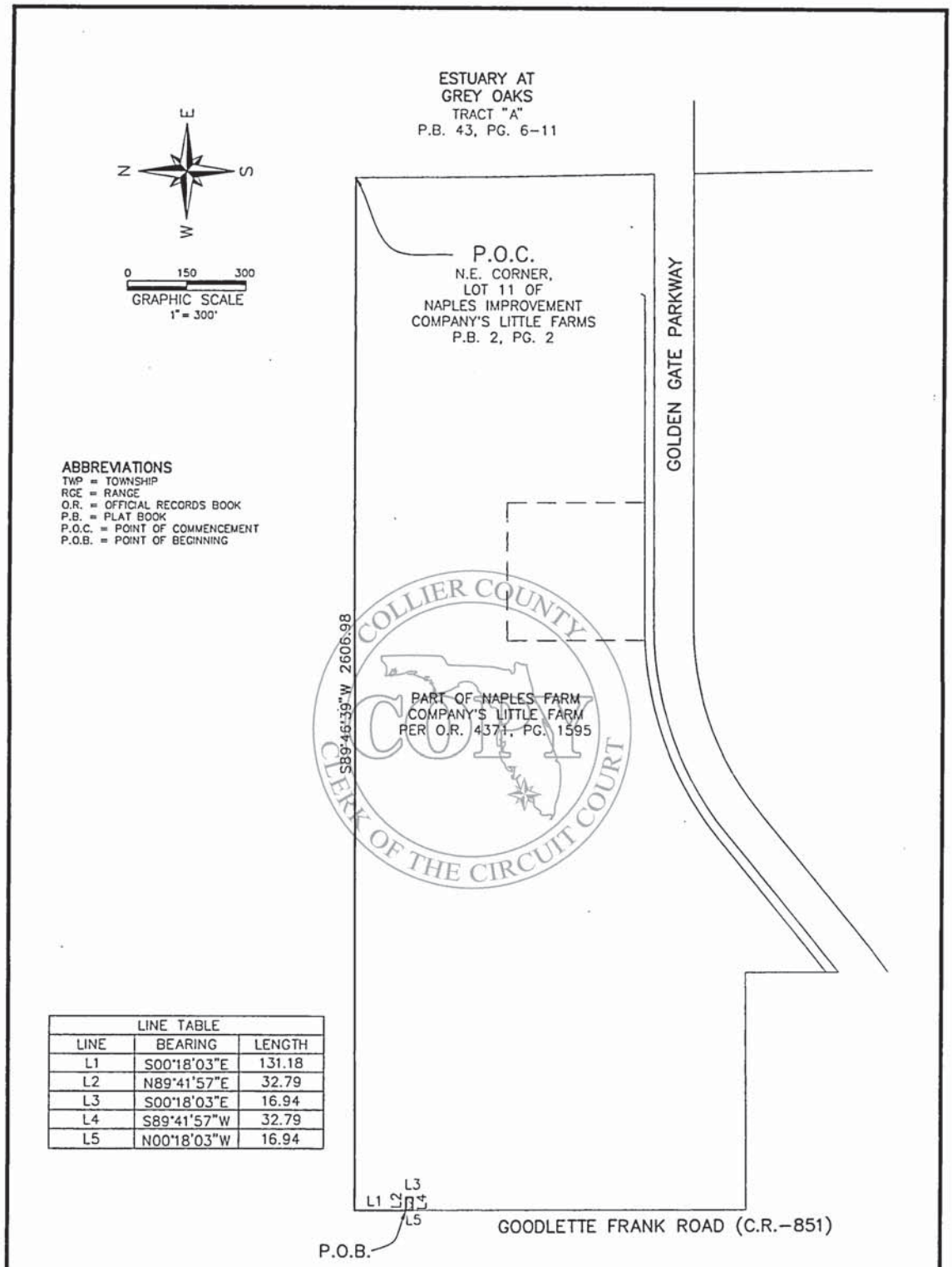
RWA CONSULTING INC.
Planning
Visualization
Civil Engineering
Surveying & Mapping
6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE:	5/07/09
SCALE:	N/A
DRAWN BY:	RY
CHECKED BY:	MAW
SEC: TWP: RGE:	27 49S 25E

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER:	050009.01.01	SHEET NUMBER:	3 OF 3	FILE NUMBER:	SK03



LINE TABLE		
LINE	BEARING	LENGTH
L1	S00°18'03"E	131.18
L2	N89°41'57"E	32.79
L3	S00°18'03"E	16.94
L4	S89°41'57"W	32.79
L5	N00°18'03"W	16.94

May 11, 2009 2:11 PM O:\2005\050009.01.01 Gordon River - Additional Services\0002 Sketch And Descriptions\0500090101SK04.dwg

RWA CONSULTING INC.
Planning
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6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE:	5/07/09
SCALE:	N/A
DRAWN BY:	RY
CHECKED BY:	MAW
SEC: 27 TWP: 49S RGE: 25E	

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER: 050009.01.01 | SHEET NUMBER: 1 OF 2 | FILE NUMBER: SK04

LEGAL DESCRIPTION
(UTILITY EASEMENT)

A PARCEL OF LAND LYING IN SECTION 27, TOWNSHIP 49S, RANGE 25E, COLLIER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 11 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 2, OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA:

THENCE S.89°46'39"W. ALONG THE NORTH LINE OF SAID LOT 11 FOR 2,606.98 FEET;
THENCE S.00°18'03"E. FOR 131.18 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL HEREIN DESCRIBED;

THENCE N.89°41'57"E. FOR 32.79 FEET;
THENCE S.00°18'03"E. FOR 16.94 FEET;
THENCE S.89°41'57"W. FOR 32.79 FEET;
THENCE N.00°18'03"W. FOR 16.94 FEET; TO THE **POINT OF BEGINNING** OF THE PARCEL DESCRIBED HEREIN.

CONTAINING 555 SQUARE FEET, MORE OR LESS.

PREPARE BY RWA, INC.
BY:_____
MICHAEL A. WARD, PROFESSIONAL SURVEYOR AND MAPPER LS#5301

SIGNING DATE: 5/11/09

SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

BEARINGS ARE BASED ON THE NORTH LINE OF SAID LOT 11 AS BEING S.89°46'39"W.

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

May 11, 2009 2:06 PM O:\2005\050009.01.01 Gordon River – Additional Services\0002 Sketch And Descriptions\0500901015K04.dwg

RWA CONSULTING INC.
Planning
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Civil Engineering
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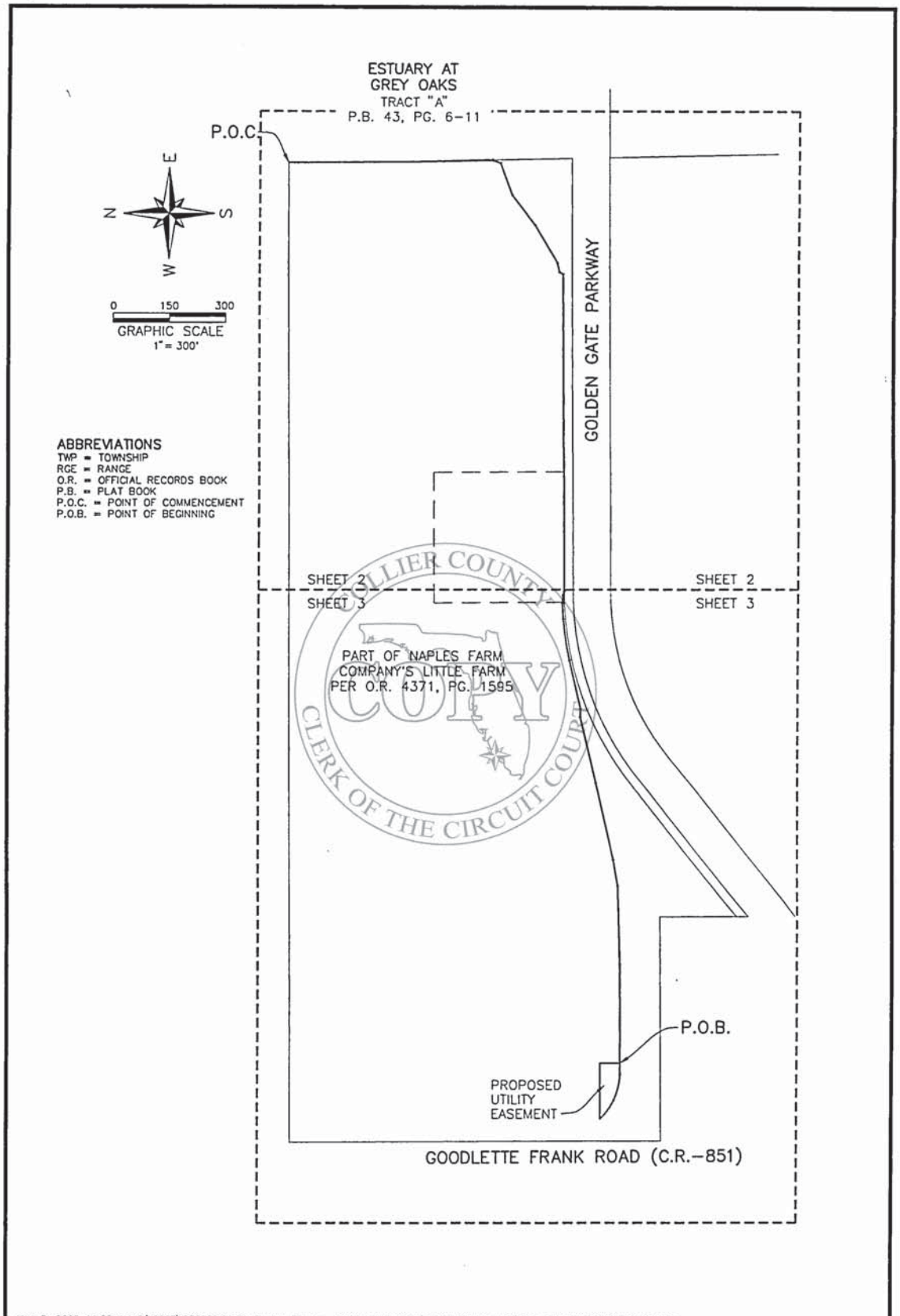
6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE: 5/07/09	CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.
SCALE: N/A	
DRAWN BY: RY	TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT
CHECKED BY: MAW	
SEC: 27 TWP: 49S RGE: 25E	PROJECT NUMBER: 050009.01.01 / SHEET NUMBER: 2 OF 2 / FILE NUMBER: SK04



COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

May 8, 2009 11:55 AM O:\2005\050009.01.01 Gordon River - Additional Services\0002 Sketch And Descriptions\0500090101SK02.dwg

RWA CONSULTING INC.
Planning
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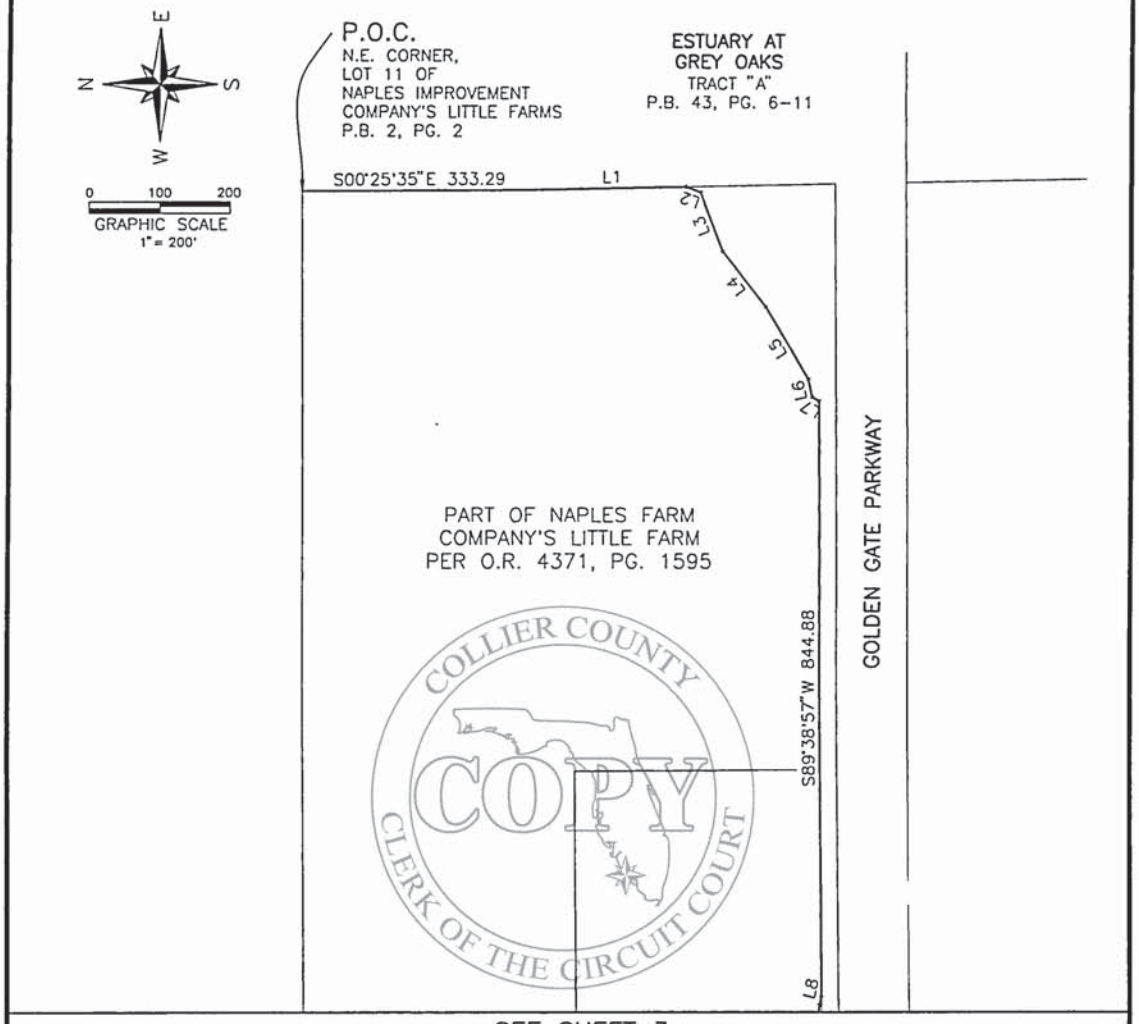
Civil Engineering
Surveying & Mapping
6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE:	5/07/09
SCALE:	N/A
DRAWN BY:	RY
CHECKED BY:	MAW
SEC: TWP: RGE:	27 49S 25E

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER: 050009.01.01 | SHEET NUMBER: 1 OF 4 | FILE NUMBER: SK02



SEE SHEET 3

LINE TABLE		
LINE	BEARING	LENGTH
L1	S01°14'57"E	214.12
L2	S20°04'54"W	22.16
L3	S69°07'51"W	89.80
L4	S52°21'09"W	101.40
L5	S58°56'05"W	117.67
L6	S77°41'52"W	25.39
L7	S28°31'08"W	11.42
L8	N76°08'47"W	11.30

May 8, 2009 11:56 AM O:\2005\050009.01.01 Gordon River – Additional Services\0002 Sketch And Descriptions\0500090101SK02.dwg

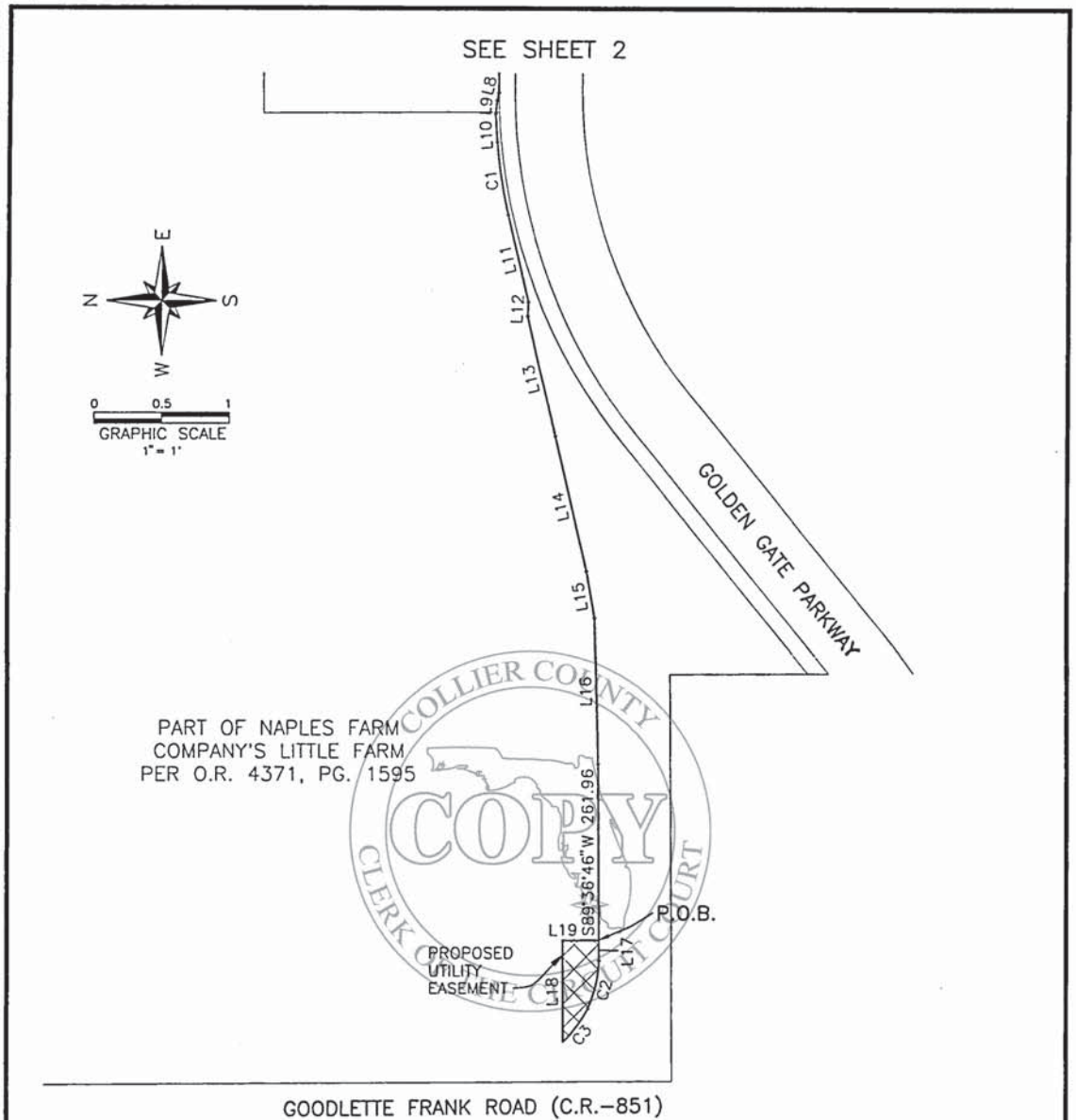
RWA CONSULTING INC.
Planning
Visualization
Civil Engineering
Surveying & Mapping
6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE: 5/07/09
SCALE: N/A
DRAWN BY: RY
CHECKED BY: MAW
SEC: 27 TWP: 49S RGE: 25E

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER: 050009.01.01
SHEET NUMBER: 2 OF 4
FILE NUMBER: SK02



COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

CURVE TABLE					
CURVE	RADIUS	DELTA	LENGTH	CB	CD
C1	803.86	7°47'53"	109.41	S81°03'45"W	109.32
C2	185.21	22°29'08"	72.69	N77°00'48"W	72.22
C3	186.70	19°08'02"	62.35	N53°26'12"W	62.06

LINE TABLE		
LINE	BEARING	LENGTH
L9	N84°15'36"W	20.53
L10	S86°20'19"W	42.22
L11	S76°36'38"W	132.09
L12	N87°00'01"W	21.13
L13	S76°40'40"W	183.75
L14	S76°38'13"W	204.86
L15	S80°01'19"W	70.49
L16	S88°28'53"W	212.06
L17	S89°36'46"W	30.05
L18	N89°36'46"E	149.90
L19	S00°23'14"E	54.01

May 8, 2009 11:59 AM O:\2005\050009.01.01 Gordon River - Additional Services\0002 Sketch And Descriptions\0500090101SK02.dwg

RWA CONSULTING INC.
Planning
Visualization
Civil Engineering
Surveying & Mapping
6610 Willow Park Drive, Suite 200
Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE: 5/07/09
SCALE: N/A
DRAWN BY: RY
CHECKED BY: MAW
SEC: 27 TWP: 49S RGE: 25E

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER: 050009.01.01
SHEET NUMBER: 3 OF 4
FILE NUMBER: SK02

LEGAL DESCRIPTION
(UTILITY EASEMENT)

A PARCEL OF LAND LYING IN SECTION 27, TOWNSHIP 49S, RANGE 25E, COLLIER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 11 NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 2, OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA;

THENCE S.00°25'35"E. FOR 333.29 FEET;
THENCE S.01°14'57"E. FOR 214.12 FEET;
THENCE S.20°04'54"W. FOR 22.16 FEET;
THENCE S.69°07'51"W. FOR 89.80 FEET;
THENCE S.52°21'09"W. FOR 101.40 FEET;
THENCE S.58°56'05"W. FOR 117.67 FEET;
THENCE S.77°41'52"W. FOR 25.39 FEET;
THENCE S.28°31'08"W. FOR 11.42 FEET TO A POINT LYING ON THE NORTH RIGHT OF WAY GOLDEN GATE PARKWAY PER O.R. BOOK 2053, PAGE 1671, AND O.R. BOOK 2053, PAGE 1687;
THENCE S.89°38'57"W. ALONG SAID RIGHT OF WAY FOR 844.88 FEET;
THENCE LEAVING SAID RIGHT OF WAY N.76°08'47"W. FOR 11.30 FEET;
THENCE N.84°15'36"W. FOR 20.53 FEET;
THENCE S.86°20'19"W. FOR 42.22 FEET TO A POINT OF CURVATURE;
THENCE WESTERLY 109.41 FEET, ALONG THE ARC OF A NON-TANGENTIAL CIRCULAR CURVE TO THE LEFT, HAVING A RADIUS OF 803.86 FEET, THROUGH A CENTRAL ANGLE OF 07°47'53" AND BEING SUBTENDED BY A CHORD WHICH BEARS S.81°03'45"W. FOR 109.32 FEET;
THENCE S.76°36'38"W. FOR 132.09 FEET;
THENCE N.87°00'01"W. FOR 21.13 FEET;
THENCE S.76°40'40"W. FOR 183.75 FEET;
THENCE S.76°38'13"W. FOR 204.86 FEET;
THENCE S.80°01'19"W. FOR 70.49 FEET;
THENCE S.88°28'53"W. FOR 212.06 FEET;
THENCE S.89°36'46"W. FOR 261.96 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL HEREIN DESCRIBED;

THENCE CONTINUE S.89°36'46"W. FOR 30.05 FEET TO A POINT OF CURVATURE;
THENCE WESTERLY 72.69 FEET, ALONG THE ARC OF A NON-TANGENTIAL CIRCULAR CURVE TO THE RIGHT, HAVING A RADIUS OF 185.21 FEET, THROUGH A CENTRAL ANGLE OF 22°29'08" AND BEING SUBTENDED BY A CHORD WHICH BEARS N.77°00'47"W. FOR 72.22 FEET, TO A POINT OF CURVATURE;
THENCE NORTHWESTERLY 62.35 FEET, ALONG THE ARC OF A NON-TANGENTIAL CIRCULAR CURVE TO THE RIGHT, HAVING A RADIUS OF 186.70 FEET, THROUGH A CENTRAL ANGLE OF 19°08'02" AND BEING SUBTENDED BY A CHORD WHICH BEARS N.53°26'12"W. FOR 62.06 FEET;
THENCE N.89°36'46"E. FOR 149.90 FEET;
THENCE S.00°23'14"E. FOR 54.01 FEET; TO THE POINT OF BEGINNING OF THE PARCEL DESCRIBED HEREIN.

CONTAINING 6,035 SQUARE FEET, MORE OR LESS.

PREPARED BY RWA INC.
FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 6952

BY:_____
MICHAEL A. WARD, PROFESSIONAL LAND SURVEYOR LS #5301

SIGNING DATE: 5/8/09

SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

BEARINGS ARE BASED ON THE NORTH RIGHT OF WAY OF SAID GOLDEN GATE PARKWAY AS BEING S.89°38'57"W.

COPY
CLERK OF THE CIRCUIT COURT

May 8, 2009 12:01 PM O:\2005\050009.01.01 Gordon River - Additional Services\0002 Sketch And Descriptions\0500090101SK02.dwg

RWA CONSULTING INC.
Planning
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Civil Engineering
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Naples, Florida 34109
Phone: (239) 597-0575
FAX: (239) 597-0578
Florida Certificate of Authorization # lb-6952

DATE:	5/07/09
SCALE:	N/A
DRAWN BY:	RY
CHECKED BY:	MAW
SEC: TWP: RGE:	27 49S 25E

CLIENT: COLLIER COUNTY TRANSPORTATION, ENG. & CONST. MGN.

TITLE: GORDON RIVER WATER QUALITY PARK UTILITY EASEMENT

PROJECT NUMBER:	050009.01.01	SHEET NUMBER:	4 OF 4	FILE NUMBER:	SK02

best copy

393540

EASEMENT

OFF REC 628 PAGE 1704

KNOW ALL MEN BY THESE PRESENTS, That The Estate of Julius Fleischmann, hereinafter referred to as Grantor, for the sum of One Dollar to it in hand paid by COLLIER COUNTY, FLORIDA, a political subdivision of the State of Florida, whose mailing address is Naples, Florida, hereinafter referred to as Grantee, receipt of which is hereby acknowledged, as well as other good and valuable considerations, has and by these presents does give, grant and quitclaim unto Grantee, its successors and assigns, for the purposes set forth below, a non-exclusive easement over and across the following described land, hereinafter referred to as an Easement, to wit:

Part of Lots 9 & 97, NAPLES IMPROVEMENT COMPANY's little farms, as recorded in Plat Book 2, on Page 2, in Section 27, Township 49 South, Range 25 East. Beginning at the Northeast corner of Lot 8 and run North 130.42 feet to the Southerly right-of-way line of State Road S-951, thence along said right-of-way line, East 136.93 feet; thence leaving said right-of-way, South 130.42 feet; thence West 136.93 feet to the place of beginning.

RECORDED
OFFICIAL RECORD BOOK
COLLIER COUNTY, FLORIDA
Sep 7 4 08 PM '75
MARGARET T. SCOTT
CLERK OF CIRCUIT COURT
COLLIER COUNTY, FLORIDA

This easement is given and granted under the following terms and conditions and for the following purposes:

1. This easement is granted for the purpose of permitting Grantee to construct, maintain, operate, repair and remove a weir and appurtenances therein with access thereto.

2. This easement is non-exclusive, and Grantor reserves unto itself and its successors and assigns, the right to give and grant rights of way and easements therefor, private or public, over and across said Easement herein granted and the right, at its option, to deed or dedicate public roads, streets or highways over, across and along said Easement.

3. Grantor further reserves the right to give and grant easements for other utilities over and across said Easement.

4. Grantor, its successors and assigns shall not be

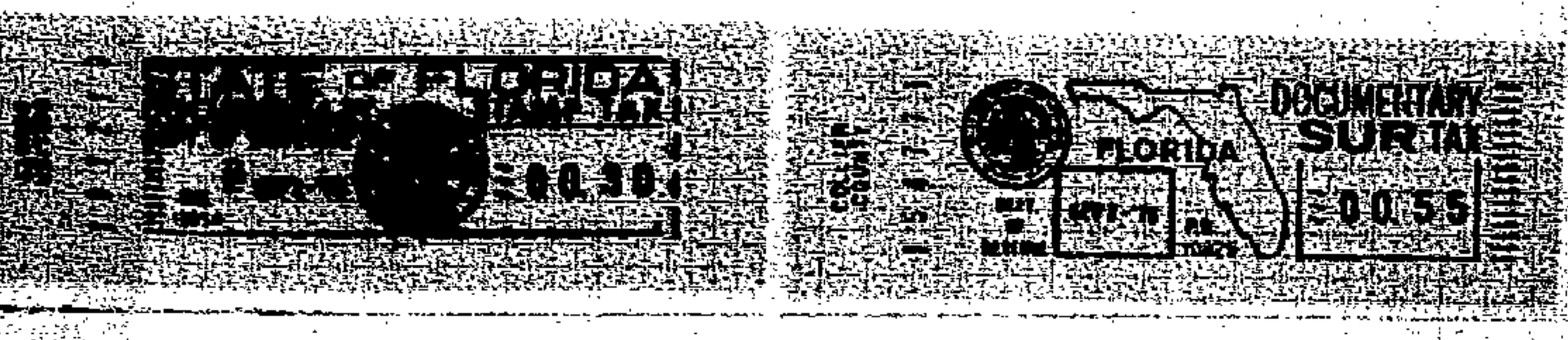
best copy

liable or responsible for any matter of fact or thing resulting from or in anywise growing out of the existence of any weir and the necessary appurtenances on said premises.

5. This easement is non-exclusive, and Grantor specifically reserves unto itself, its successors and assigns, the right to the continued free use and enjoyment of the property lying within said Easement for all purposes which are not inconsistent with the rights given and granted unto Grantee by this instrument.

6. The Grantee hereby acknowledges the Grantor's right to transfer development rights from said properties within the Easement lying west of the Gordon River to that portion of Lot 9 lying South of State Road 951 and West of said Easement; and further, the Grantee hereby acknowledges the Grantor's right to transfer development rights in that portion lying East of the Gordon River to Lot 97 lying South of State Road 951 right-of-way. Said transfer shall be made in accordance with those regulations relating to the transfer of development rights on lands designated "ST" by the Collier County Zoning Regulations in force at the time such transfer is requested.

7. The Grantee hereby covenants that if the sodium chlorides in the Gordon River, downstream of the weir at the Big Cypress Nature Center, increase above the level shown in the following tabulation, in any month so shown, the County will open the control structure to discharge fresh water to control the sodium chloride concentration downstream of the structure such that the sodium chloride concentration shall be reduced to that amount shown for that month in the attached tabulation.



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NaCI SUMMARY
CARIBBEAN GARDENS & GORDON RIVER

DATE	CARIBBEAN GARDENS East Lake	GORDON RIVER Big Cypress Nature Center	CARIBBEAN GARDENS Artesian Well
12/20/74	1,140 ppm	1,800 ppm	
12/31/74	886 ppm	6,400 ppm	
1/30/75	940 ppm	13,880 ppm	
2/27/75	940 ppm	14,740 ppm	
3/27/75	934 ppm	20,300 ppm	
4/24/75	886 ppm	25,000 ppm	3,000+ppm (no dilution)
5/06/75			4,200 ppm

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 21 day of July, 1975.

WITNESS:

Susan Griffin

Pauline Duvall

By Charles Fleischmann
Charles Fleischmann, as
Ancillary Executor of the
Estate of Julius Fleischmann

STATE OF OHIO
COUNTY OF HAMILTON

I HEREBY CERTIFY , that on this day before me an officer duly authorized to administer oaths and take acknowledgments, personally appeared Charles Fleischmann to me well known to be acknowledged before me that they executed the same freely and voluntarily for the purpose therein expressed.

IN WITNESS WHEREOF I have hereunto set my hand and seal on this the 21 day of July, 19 75.

Notary Public

My Commission Expires:

COLLIER COUNTY, FLORIDA

ATTEST:
MARGARET T. SCOTT
Clerk of Circuit Court

By: _____

Recorded in Official Records Book
of COLLIER COUNTY, FLORIDA
MARGARET T. SCOTT
Clerk of Circuit Court

2.
DOC 42
INT

OFFICIAL RECORDS
COLLIER COUNTY, FLA.
SEP 9 3 55 PM '80

664340

O.R. 882 PG 1123

EASEMENT

FR No. RWO 7484-1

June 20, 1980

Pole No.

Sec. 27 & 34 Twp. 49S Rge. 25E

The undersigned, owner of the premises described below, in consideration of the payment of One Dollar and other good and valuable consideration, the adequacy and receipt of which is hereby acknowledged, grant and give to Florida Power & Light Company, its licensees, agents, successors, and assigns, an easement for the construction, operation and maintenance of overhead electric utility facilities (including wires, poles, guys, cables) to be installed from time to time; with the right to reconstruct, improve, add to, change the size of and remove such facilities or any of them, on the property described as follows:

East ten (10) feet of the West seven hundred thirty-eight (738) feet of the North two hundred eighty-eight (288) feet of Lot 3 Naples Improvement Company Little Farm a subdivision as recorded in Plat Book 2 Page 2 Collier County Florida.

The grant of easement is subject to the following covenants and agreements on the part of Florida Power & Light Company, its successors and assigns and for the benefit of the owner, its successors and assigns:

1. Owner shall reserve the right to permit any other person, firm or corporation to attach wires to any overhead facilities within the right-of-way and to operate the same for communications purposes with the right of ingress and egress to the premises.

2. With the owner's prior written consent, Florida Power & Light Company, its licensees and agents may clear the land and keep it cleared of all trees, undergrowth or other obstructions within the easement area.

3. With the owner's prior written consent, Florida Power & Light Company, its licensees and agents may trim, cut and keep trimmed and cut all dead wood, leaving all dangerous trees or limbs outside the easement area which might interfere with or fall upon the lines of systems of communications or power

transmission or distribution.

4. By accepting this easement and constructing an overhead distribution line, the Florida Power & Light Company agrees, upon request, to relocate or remove said overhead distribution line, at its cost and expense so as to accommodate owner's needs upon said property.

5. Owner by granting this easement retains the use of the property for any and all purposes so long as such purpose or purposes are not inconsistent with the granting of this easement.

IN WITNESS WHEREOF, the undersigned have signed and sealed this agreement on August 13, 1980.

Signed, sealed and delivered
in the presence of:

Lisa Lewis

Ethel M. Steinmann

CARIBBEAN GARDENS, INC.

By: Charles M. Long
Pres.

STATE OF FLORIDA)
) SS:
COUNTY OF COLLIER)

BE IT REMEMBERED, that on this 13th day of August, 1980, before me, a Notary Public in and for said County and State, personally appeared Charles M. Long, whose name is subscribed to the foregoing instrument and who is the President of Caribbean Gardens, Inc., and who acknowledged the signing thereof to be his voluntary act and deed, for the uses and purposes therein set forth.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal on this day and year aforesaid.

Recorded and Verified
In Official Records of
COLLIER COUNTY, FLORIDA
WILLIAM [illegible] EAGAN, CLERK
By GLORIA HOLLAND, D.C.

Ethel M. Steinmann
Notary Public
Notary Public, State of Florida at Large
My Commission Expires Feb. 13, 1983
Bonded by American Fire & Casualty Company

REC. 10.00
SUR. 55
DOC. 30
INT.

EASEMENT
544503

OFF REC 1771 PAGE 997

KNOW ALL MEN BY THESE PRESENTS That, WILLIAM A. FRIEDLANDER, ROBERT O. KLAUSMEYER and CHARLES M. LONG, Trustees of Item XI and XII trusts under the will of JULIUS FLEISCHMANN for and in consideration of the sum of One Dollar ($1.00), and other good and valuable consideration, have this day given and granted unto the CITY OF NAPLES, Collier County, a Municipal corporation under the laws of the State of Florida, a utility easement in, over and across the following described premises, lying and being in Collier County, Florida, to-wit:

Commencing at the NW corner of Lot 8, Naples Improvement Company's Little Farms, Plat Book 2, Page 2 of the Public Records of Collier County, Florida, and running in an easterly direction along the North property line of said Lot 8 a distance of 2,147.25 feet to the NE corner of said Lot 8, said point being the Point of Beginning; thence continue in same direction a distance of 136.93 feet to a point; thence turn 90° and run Northerly a distance of 130.42 feet to a point on the South right-of-way line of State Road S-886; thence run easterly along said right-of-way line a distance of 360 feet to a point on the East section line of Section 27, Township 49 South, Range 25 East; thence run Southerly along said section line a distance of 15 feet to a point; thence run Westerly and parallel to the south right-of-way line of State Road S-886 a distance of 340 feet to a point; thence turn 90° and run Southerly a distance of 145.42 feet to a point; thence turn 90° and run Westerly to a point on the west bank of the Gordon River and the east property line of afore-mentioned Lot 8; thence run Northerly along said property line to the point of beginning.

RECORDED
OFFICIAL RECORD BOOK
COLLIER COUNTY, FLORIDA
SEP 8 9 51 AM '78

STATE OF FLORIDA
DOCUMENTARY
STAMP TAX
0.30
SEP 8 '78
COLLIER COUNTY

This easement supersedes an easement recorded in OR 610, Page 1500 of the Public Records of Collier County, Florida.

and said Grantors do hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

DOCUMENTARY
SURTAX
0.55
FLORIDA
SEP-8'78

This easement is granted for the purpose of installation and maintenance of sewer, water, and other municipal utility services. This easement prohibits the construction above or below ground of permanent structures and any ornamental planting within its boundaries which would in any way interfere with the operation and maintenance of the utility system. This is a non-exclusive easement and without in any way limiting the foregoing Grantor, its successors and assigns, specifically reserve the right of ingress and egress including the right to place such improvements as paved surfaces and sidewalks over and across said easement.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this the 27 day of July, 1978.

Kathleen A. Ashcroft

William A. Friedlander, Trustee

Margaret L. May

Robert O. Klausmeyer, Trustee

Barbara A. Knight

Charles M. Long, Trustee

#3083

STATE OF OHIO)
) SS:
COUNTY OF HAMILTON)

I HEREBY CERTIFY that on this day personally appeared before me, an officer duly authorized to administer oaths and take acknowledgements, WILLIAM A. FRIEDLANDER and ROBERT O. KLAUSMEYER, Trustees of Item XI and XII trusts under the will of JULIUS FLEISCHMANN, to me well known to be the persons described and who executed the foregoing, and acknowledged before me that said persons executed the same freely and voluntarily for the purpose therein expressed.

WITNESS my hand and seal this 19th day of July, 1978.

Doris J. Leonard (SEAL)
Notary Public
DORIS J. LEONARD
Notary Public, State of Ohio
My Commission Expires Sept. 16, 1979

(SEAL) My commission expires: 9-16-79

STATE OF FLORIDA)
) SS:
COUNTY OF COLLIER)

I HEREBY CERTIFY that on this day personally appeared before me, an officer duly authorized to administer oaths and take acknowledgements, CHARLES M. LONG, Trustee of Item XI and XII trusts under the will of JULIUS FLEISCHMANN, to me well known to be the person described and who executed the foregoing, and acknowledged before me that said person executed the same freely and voluntarily for the purpose therein expressed.

WITNESS my hand and seal this 27th day of July, 1978.

Suzanne Osei (SEAL)
Notary Public
Notary Public, State of Florida at Large
My Commission Expires Oct. 26, 1980
Bonded Thru Fire & Casualty Company

(SEAL) My commission expires:

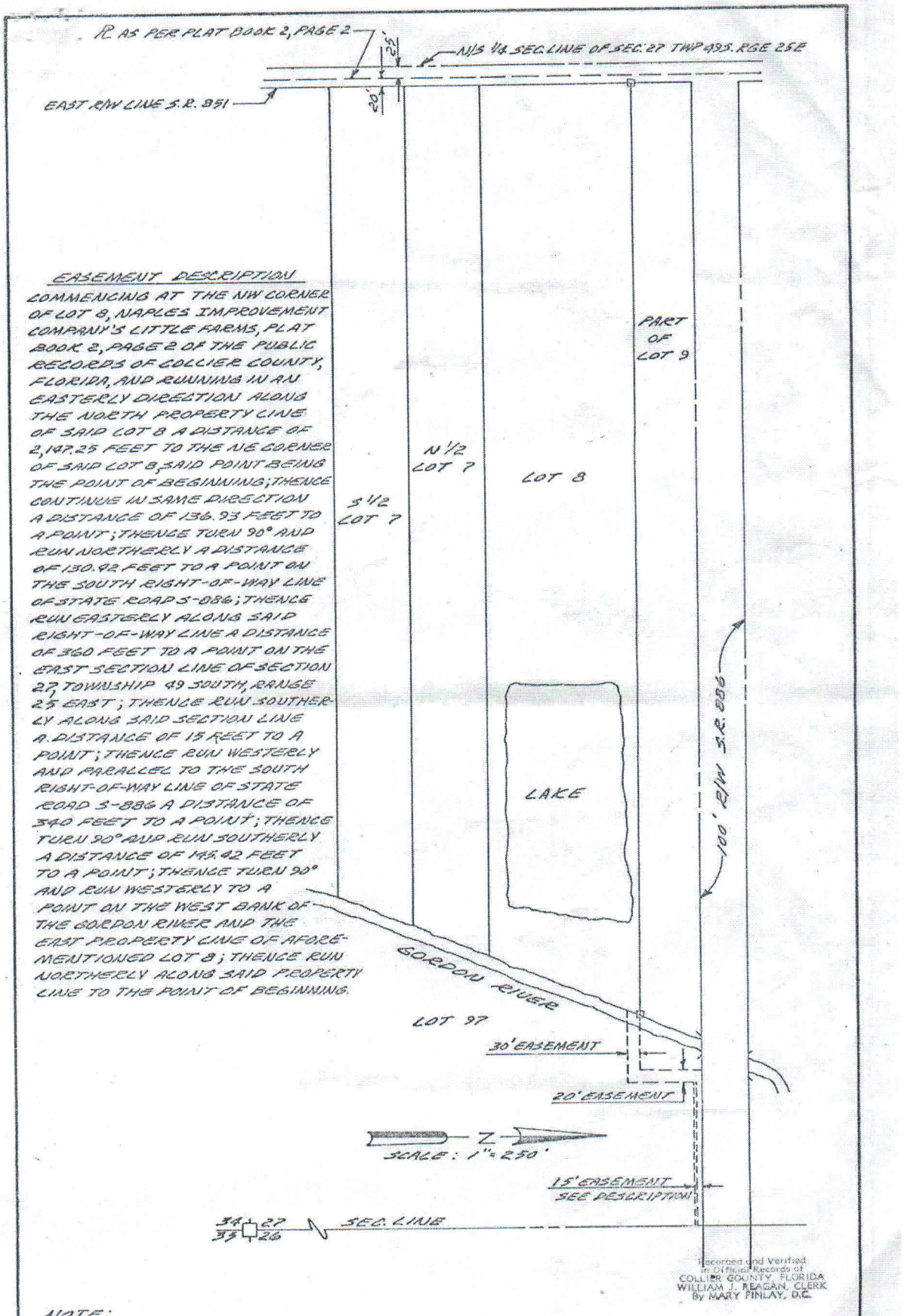
ACCEPTANCE BY THE CITY OF NAPLES

BY: R. B. Anderson
R. B. Anderson, Mayor

Janet Davis Cason
City Clerk

This instrument prepared by: CH2M HILL SOUTHEAST, INC.
1063 Fifth Avenue, North
Naples, Florida

#3083



EASEMENT DESCRIPTION

COMMENCING AT THE NW CORNER OF LOT 8, NAPLES IMPROVEMENT COMPANY'S LITTLE FARMS, PLAT BOOK 2, PAGE 2 OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA, AND RUNNING IN AN EASTERLY DIRECTION ALONG THE NORTH PROPERTY LINE OF SAID LOT 8 A DISTANCE OF 2,147.25 FEET TO THE NE CORNER OF SAID LOT 8, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUE IN SAME DIRECTION A DISTANCE OF 136.93 FEET TO A POINT; THENCE TURN 90° AND RUN NORTHERLY A DISTANCE OF 130.42 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF STATE ROAD S-886; THENCE RUN EASTERLY ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 360 FEET TO A POINT ON THE EAST SECTION LINE OF SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST; THENCE RUN SOUTHERLY ALONG SAID SECTION LINE A DISTANCE OF 15 FEET TO A POINT; THENCE RUN WESTERLY AND PARALLEL TO THE SOUTH RIGHT-OF-WAY LINE OF STATE ROAD S-886 A DISTANCE OF 340 FEET TO A POINT; THENCE TURN 90° AND RUN SOUTHERLY A DISTANCE OF 145.42 FEET TO A POINT; THENCE TURN 90° AND RUN WESTERLY TO A POINT ON THE WEST BANK OF THE GORDON RIVER AND THE EAST PROPERTY LINE OF AFORE-MENTIONED LOT 8; THENCE RUN NORTHERLY ALONG SAID PROPERTY LINE TO THE POINT OF BEGINNING.

Recorded and Verified in Official Records of COLLIER COUNTY, FLORIDA WILLIAM J. REAGAN, CLERK By MARY FINLAY, D.C.

NOTE:
THIS IS NOT A SURVEY

BC&E CH2M HILL

SKETCH PREPARED BY B.C.&E. / CH2M HILL
PROJ. NO. NA 30510.71

#3083

Exhibit M-2
PLACEHOLDER

EASEMENT

Work Request No. _____

Sec. __, Twp. __S, Rge. __E
Parcel I.D.: _____
(Maintained by County Appraiser)
Form 3722 (Stocked) Rev. 6/11

Prepared By:
Name: _____
_____
Co. Name: FP&L Co.
Address: 4105 S.W. 15th Avenue
Naples, Florida 34116

Page 1 of ____ including Exhibit "A"

WHEREAS, Grantor has acquired the property with partial funding from the Florida Communities Trust (FCT), and the Property is subject to certain limitations provided in the FCT Grant Award Agreement a/k/a the Declaration of Restrictive Covenants (as recorded in OR Book ____, Page ___ in the Public Records of Collier County, Florida)(the "Agreement,") and

WHEREAS, as part and condition of the FCT funding, the County provided and FCT approved a Management Plan for the project site, and together with the Agreement, the terms of which are hereby incorporated herein by reference; and

WHEREAS, Grantor intends that the conservation and recreation values of the Property be preserved and enhanced in accordance with the Management Plan, as it may be amended from time to time only after review and approval by FCT; and

WHEREAS, All activities by the Grantor and Grantee shall be consistent with the Agreement and Management Plan.

The undersigned, in consideration of the payment of $1.00 and other good and valuable consideration, the adequacy and receipt of which is hereby acknowledged, grant and give to Florida Power & Light Company, its licensees, agents, successors, and assigns ("FPL"), a non-exclusive easement forever for the construction, operation and maintenance of underground electric utility facilities (including cables, conduits, appurtenant equipment, and appurtenant above ground equipment) to be installed from time to time; with the right to reconstruct, improve, add to, enlarge, change the voltage, as well as, the size of and remove such facilities or any of them within an easement described as follows:

See Exhibit "A" ("Easement Area")

Together with the right to permit FPL to attach wires to any facilities hereunder and lay cable and conduit within the easement and to operate the same for FPL's communications purposes; the right of ingress and egress to the Easement Area at all times; the right to clear the land and keep it cleared of all trees, undergrowth and other obstructions within the Easement Area; to trim and cut and keep trimmed and cut all dead, weak, leaning or dangerous trees or limbs outside of the easement area which might interfere with or fall upon the lines or systems of communications or power transmission or distribution; and further grants, to the fullest extent the undersigned has the power to grant, if at all, the rights hereinabove granted on the Easement Area heretofore described, over, along, under and across the roads, streets or highways adjoining or through said Easement Area.

IN WITNESS WHEREOF, the undersigned has signed and sealed this instrument on this _____ day of _____, 2012.

Board of County Commissioners
Collier County, Florida

By: _____
Fred W. Coyle, Chairman
3299 Tamiami Trail East, Suite 303
Naples, Florida 34112-5746

SAMPLE

Exhibit M-2
PLACEHOLDER

Attest:
Dwight E. Brock, Clerk

_____
Print: _____
Deputy Clerk
3299 Tamiami Trail East, 4th Floor
Naples, Florida 34112

Approved as to form and
legal sufficiency:

_____
Jennifer B. White, Assistant County Attorney

Reviewed and Approved by:

_____
Clay Smallwood, Division Director
Division of State Lands

SAMPLE

Exhibit M-2
PLACEHOLDER

PROJECT: GORDON RIVER GREENWAY PARK
FOLIO:

UTILITY EASEMENT

WHEREAS, Grantor has acquired the property with partial funding from the Florida Communities Trust (FCT), and the Property is subject to certain limitations provided in the FCT Grant Award Agreement a/k/a the Declaration of Restrictive Covenants (as recorded in OR Book ____, Page ___ in the Public Records of Collier County, Florida)(the "Agreement,") and

WHEREAS, as part and condition of the FCT funding, the County provided and FCT approved a Management Plan for the project site, and together with the Agreement, the terms of which are hereby incorporated herein by reference; and

WHEREAS, Grantor intends that the conservation and recreation values of the Property be preserved and enhanced in accordance with the Management Plan, as it may be amended from time to time only after review and approval by FCT; and

WHEREAS, all activities by the Grantor and Grantee shall be consistent with the Agreement and Management Plan.

NOW THEREFORE, THIS EASEMENT, made and entered into this _____ day of _____, 2012, by **COLLIER COUNTY, a political subdivision of the State of Florida**, whose post office address is 3335 East Tamiami Trail, Suite 101, Naples, Florida 34112, hereinafter referred to as "Grantor", to the **CITY OF NAPLES,** a municipal corporation of the State of Florida, whose mailing address is _____, its successors and assigns, hereinafter referred to as "Grantee".

W I T N E S S E T H:

Grantor, for and in consideration of TEN DOLLARS ($10.00) and other valuable consideration paid by the Grantee, the receipt and sufficiency of which is hereby acknowledged, hereby conveys, grants, bargains and sells unto the Grantee, its successors and assigns, a perpetual, non-exclusive easement, license, and privilege for utility purposes, on the following described lands located in Collier County, Florida, to wit:

See attached Exhibit "A" which is incorporated herein by reference.

Subject to easements, restrictions, and reservations of record.

[THIS IS NOT HOMESTEAD PROPERTY.]

TO HAVE AND TO HOLD the same unto the Grantee together with the right to enter upon said land, excavate, and place or remove materials for the purpose of constructing, operating, and maintaining utility facilities thereon. Grantor and Grantee are used for singular or plural, as the context requires.

IN WITNESS WHEREOF, the Grantor has caused these presents to be executed the date and year first above written.

ATTEST:
DWIGHT E. BROCK

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

_____
, Deputy Clerk

BY: _____
FRED W. COYLE, Chairman

Exhibit M-2
PLACEHOLDER

Approved as to form and legal sufficiency:

By: _____
Jennifer B. White,
Assistant County Attorney

Reviewed and Approved by:

_____
Clay Smallwood, Division Director
Division of State Lands

SAMPLE

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Regulation Division

July 19, 2012

Mr. Jeff Gentry
Florida Department of Environmental Protection
Division of State Lands
3900 Commonwealth Boulevard
Carr Building - Mail Stop. 125
Tallahassee, Florida 32399

Subject: Application No. 110617-17, Permit No. 11-03344-P
Gordon River Greenway Park
Collier County, Section 27, 34, Township 49S, Range 25E

Dear Mr. Gentry:

Please find enclosed a State Lands and Environmental Resource Permit issued to Collier County Board of County Commissioners to develop a passive recreational park. The permit is an Individual Environmental Resource Permit (ERP) and was issued on June 11, 2012. Please issue a public easement for the crossing of the Gordon River at two locations, and send a copy of the executed document to my attention, to be kept in the permit file. The Individual ERP and State Lands approval for the sovereign submerged lands within the project boundary were issued conditional to the permittee obtaining the necessary public easement.

A Delegation of Authority Form is attached to this letter. Page 1 of the enclosed staff report and the Sovereign Submerged Lands section on page 12 of the staff report provide relevant information. The permit exhibits most pertinent to the public easement are 3.6-3.7.

If you have any questions, please contact Laura Layman at (239) 338-2929, extension 7525.

Sincerely,

Laura Layman for
Anita R. Bain, Bureau Chief
Environmental Resource Permitting
South Florida Water Management District

Enclosures: Delegation of Authority Form
Permit and Staff Report

cc: Ray Lorraine, Cardno Entrix
J.P. Marchand, Kimley-Horn and Associates, Inc.
Tony Rupperto, Collier County Parks

BCC: Laura Layman, LWCSC (via email)
Karyn Allman, LWCSC (via email)
Anita Bain, WPB (via email)

Addresses:

Tony Rupperto
TonyRuberto@colliergov.net

Ray Lorraine
Ray.Loraine@cardno.com

JP Marchand
JP.Marchand@kimley-horn.com

SUBMERGED LANDS AND ENVIRONMENTAL RESOURCES
DELEGATION OF AUTHORITY

DELEGATION OF AUTHORITY NO. _____

Easement/Lease No. 41498

Application No. 110617-17

Environmental Resource Permit No. 11-03344-P

Action Taken: Approval of a fifty (50) year public easement to include a total of 3,192 square feet over sovereignty submerged lands (Gordon River/Golden Gate canal) for the installation and maintenance of two pedestrian bridges serving the residents of Collier County.

Applicant/Lessee: Collier County Parks and Recreation Department
C/O Tony Ruberto
3301 Tamiami Trail East
Naples, FL 34112

County /Location: Collier County, S34/ T49S/ R25E

Consideration: $581.00 paid for the public easement review

Staff Remarks: See attached staff report.

Review/Routing		Approved By	Date
1.	Environmental Reviewer	Karyn Allman	5/17/2012
2.	Environmental Supervisor	Laura Layman	6/8/12
3.	Director of Natural Resource Management Division	Anita R. Bain	7/9/12

Legal Description
(Public Easement, Submerged Land)

Being a 20-foot wide strip of submerged land that is lying within the limits of the Golden Gate Canal / Gordon River, Section 34, Township 49 South, Range 25 East, Collier County, Florida and which is more particularly described as follows:

Commencing at a 4" x 4" concrete monument (having a grid coordinate value of North (y) 667,378.51 and East (x) 399,308.46) that is marking the northeast corner of the above referenced Section 34; thence South 01° 25′ 16″ West, a distance of 2697.53 feet to the intersection of the mean high water line (elevation 0.5 feet (NAVD 88)) that is located along the easterly bank of the Golden Gate Canal / Gordon River. Said intersection is the **Point of Beginning** (having a grid coordinate value of North (y) 664,681.81 and East (x) 399,241.56) of a 20-foot wide strip of submerged land that is lying 10.00 feet on each side of the following described line; thence North 34° 07′ 54″ West, 159.59 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD)) along the westerly bank of said Golden Gate Canal / Gordon River and which intersection is the **Point of Terminus** (having a grid coordinate value of North (y) 664,813.91 and East (x) 399,152.01).

Containing 3,192 square feet or 0.07 acre, more or less.

Bearings and grid coordinates mentioned in this Legal Description are based upon the Florida State Plane Coordinate System, NAD 83 (North American Datum, 1983, Adjustment of 2007), Florida East Zone.

The source of horizontal and vertical control was the National Geodetic Survey (NGS) control point "Z 243 Reset" (PID AD8328).

"Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper."

Prepared by:
American Engineering Consultants of Marco Island, Inc. LB7419

06/14/11

T. Alan Neal, PLS — Date of Signing
Professional Land Surveyor
State of Florida Reg.: LS4656

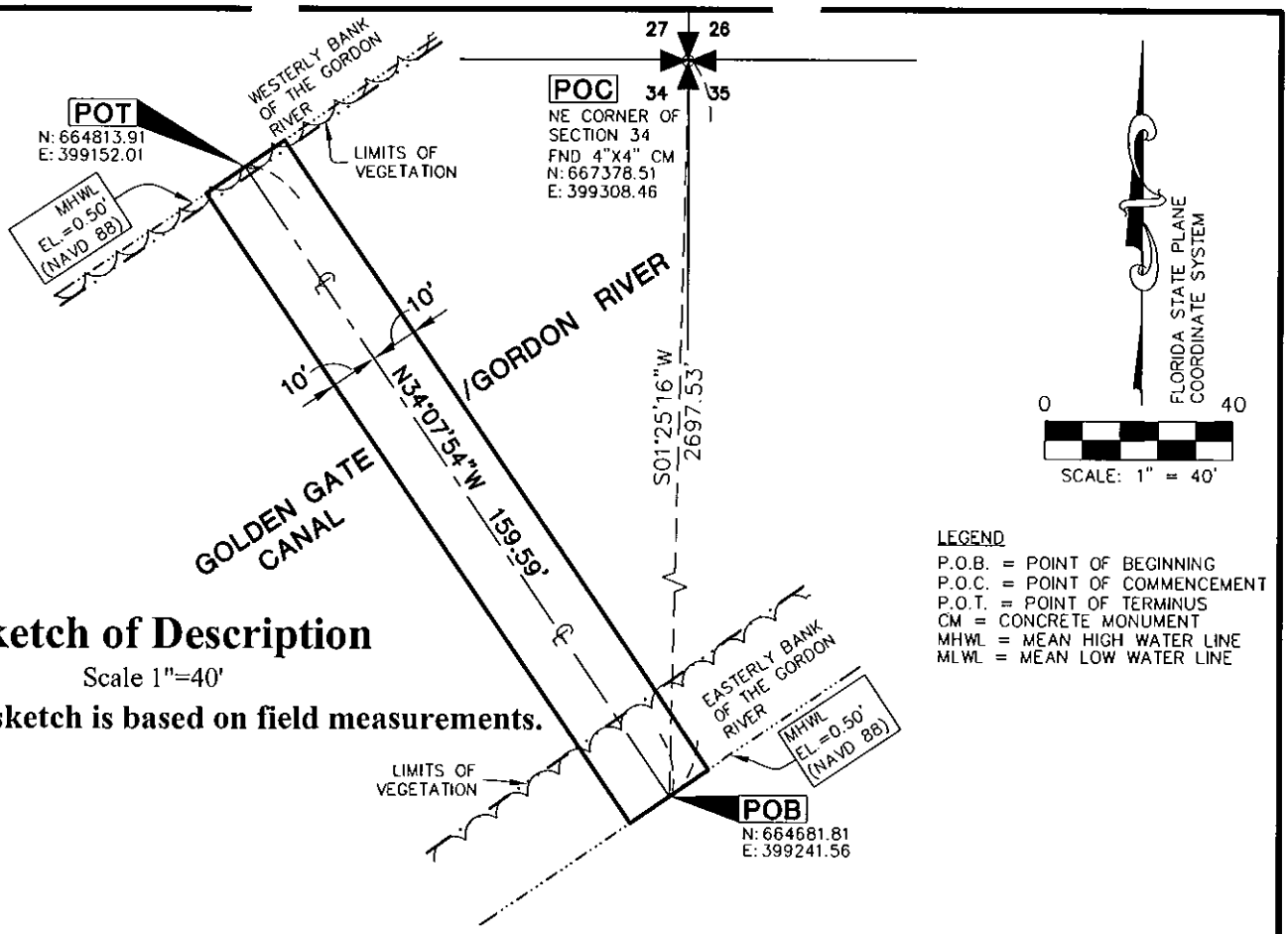
NOTE: SEE SHEET 2 OF 2 FOR SKETCH OF DESCRIPTION

SHEET 1 OF 2

LEGAL DESCRIPTION AND SKETCH OF DESCRIPTION
GOLDEN GATE CANAL/GORDON RIVER PUBLIC ESMT.
SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
NOT TO SCALE	6-8-2011	10620-003-03



Sketch of Description

Scale 1"=40'

Note: This sketch is based on field measurements.

Surveyor's Notes

1. All horizontal and vertical dimensions are in feet and decimals thereof.

2. The hereon Legal Description and Sketch of Description was prepared without the benefit of an abstract of title or title opinion; therefore it is subject to any easements, encumbrances, reservations, restrictions, right-of-ways, use, and other matters of title that may be found by a complete abstract of title opinion.

3. The hereon Legal Description and Sketch of Description are subject to any underground or not visible improvements.

4. Underground improvements, if any, have not been located.

5. Portions of the property described hereon maybe subject to the jurisdiction and restrictions of governmental agencies. The proper agencies should be contacted for the latest information prior to the use of the property.

6. The hereon Legal Description and Sketch of Description does not reflect or determine ownership.

THIS IS A SKETCH OF DESCRIPTION ONLY, NOT A BOUNDARY SURVEY

NOTE: SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTION)

SKETCH OF DESCRIPTION
GOLDEN GATE CANAL/GORDON RIVER PUBLIC ESMT.
SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
1"=40'	6-8-2011	10620-003-03

Legal Description
(Public Easement, Submerged Land)

Being a 22-foot wide strip of submerged land that is lying within the limits of the Gordon River, Section 27, Township 49 South, Range 25 East, Collier County, Florida and which is more particularly described as follows:

Commencing at a 4" x 4" concrete monument (having a grid coordinate value of North (y) 667,378.51 and East (x) 399,308.46) that is marking the southeast corner of the above referenced Section 27; thence North 83° 58′ 26″ West, a distance of 1101.60 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD 88)) that is located along the easterly bank of the Gordon River. Said intersection is the **Point of Beginning** (having a grid coordinate value of North (y) 667,494.16 and East (x) 398,212.95) of a 22-foot wide strip of submerged land that is lying 11.00 feet on each side of the following described line; thence North 90° 00′ 00″ West, 80.67 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD)) along the westerly bank of said Gordon River and which intersection is the **Point of Terminus** (having a grid coordinate value of North (y) 667,494.16 and East (x) 398,132.28).

Containing 1,778 square feet or 0.04 acre, more or less.

Bearings and grid coordinates mentioned in this Legal Description are based upon the Florida State Plane Coordinate System, NAD 83 (North American Datum, 1983, Adjustment of 2007), Florida East Zone.

The source of horizontal and vertical control was the National Geodetic Survey (NGS) control point "Z 243 Reset" (PID AD8328).

"Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper."

Prepared by:
American Engineering Consultants of Marco Island, Inc. LB7419

06/14/11

T. Alan Neal, PLS
Professional Land Surveyor
State of Florida Reg.: LS4656

Date of Signing

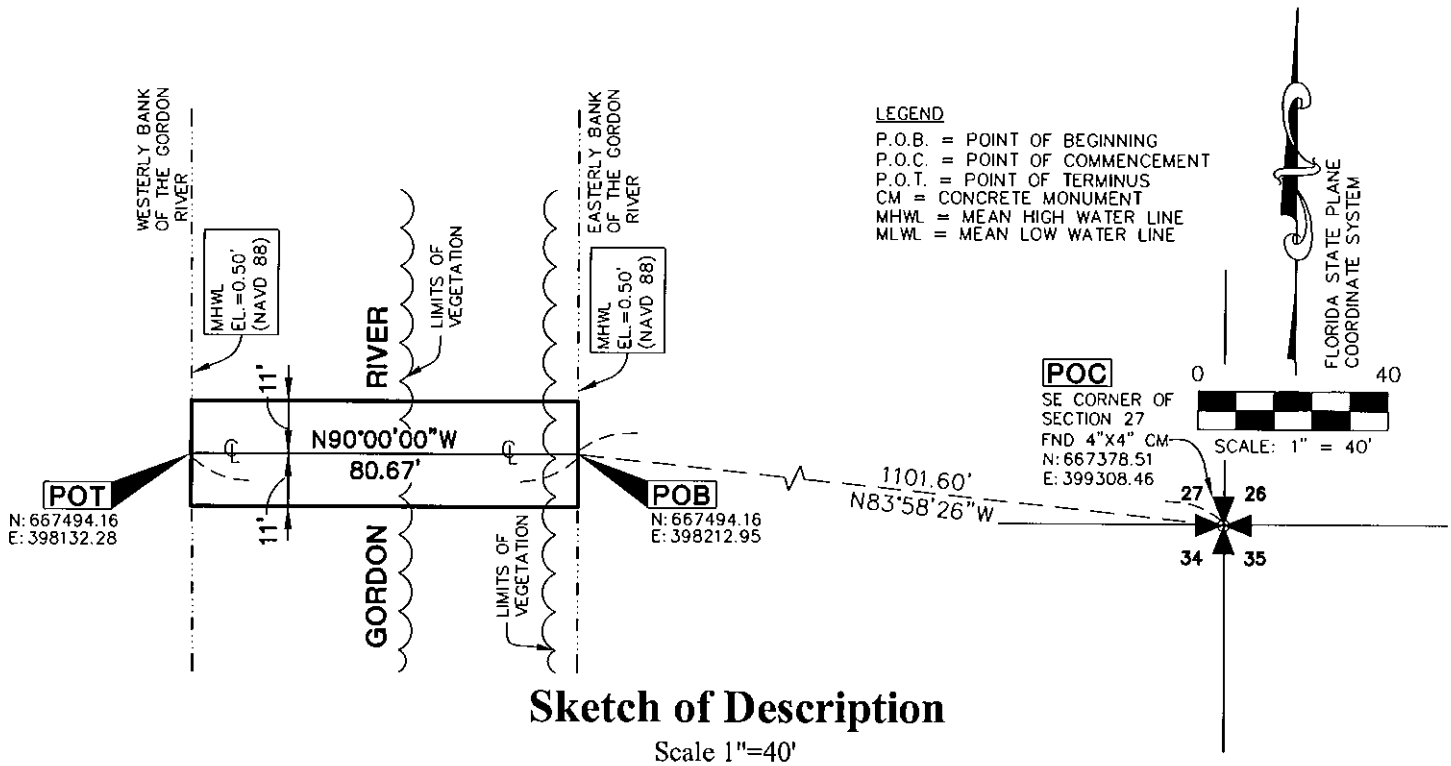
NOTE: SEE SHEET 2 OF 2 FOR SKETCH OF DESCRIPTION

SHEET 1 OF 2

LEGAL DESCRIPTION AND SKETCH OF DESCRIPTION
GORDON RIVER PUBLIC ESMT.
SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
NOT TO SCALE	6-8-2011	10620-003-03



Sketch of Description

Scale 1"=40'

Note: This sketch is based on field measurements.

Surveyor's Notes

1. All horizontal and vertical dimensions are in feet and decimals thereof.

2. The hereon Legal Description and Sketch of Description was prepared without the benefit of an abstract of title or title opinion; therefore it is subject to any easements, encumbrances, reservations, restrictions, right-of-ways, use, and other matters of title that may be found by a complete abstract of title opinion.

3. The hereon Legal Description and Sketch of Description are subject to any underground or not visible improvements.

4. Underground improvements, if any, have not been located.

5. Portions of the property described hereon maybe subject to the jurisdiction and restrictions of governmental agencies. The proper agencies should be contacted for the latest information prior to the use of the property.

6. The hereon Legal Description and Sketch of Description does not reflect or determine ownership.

THIS IS A SKETCH OF DESCRIPTION ONLY, NOT A BOUNDARY SURVEY

NOTE: SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTION)

SKETCH OF DESCRIPTION
GORDON RIVER PUBLIC ESMT.
SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
1"=40'	6-8-2011	10620-003-03

L24

CONSERVATION COLLIER
PROPERTY ID #: 20760800009 & 00258160009

3815747 OR: 4013 PG: 0757
RECORDED in OFFICIAL RECORDS of COLLIER COUNTY, FL
04/07/2006 at 01:39PM DWIGHT B. BROCK, CLERK
CONS 2815900.00
REC FEE 35.50
DOC-.10 11601.30
COPIES 5.00

Retn:
REAL ESTATE SERVICES
INTEROFFICE
ATTN:CINDY/EXT 8917

WARRANTY DEED

THIS WARRANTY DEED is made this 15th day of March, 2006, by **CDC LAND INVESTMENTS, INC., a Florida Corporation, formerly known as COLLIER DEVELOPMENT CORPORATION,** whose address is 3003 North Tamiami Trail, Suite 400, Naples, FL 34103 (hereinafter referred to as "Grantor"), to **COLLIER COUNTY,** a political subdivision of the State of Florida, its successors and assigns, whose post office address is 3301 Tamiami Trail East, Naples, Florida, 34112 (hereinafter referred to as "Grantee").

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and their respective heirs, legal representatives, successors and assigns.)

WITNESSETH: That the Grantor, for and in consideration of the sum of Ten Dollars ($10.00) and other valuable consideration, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee, all that certain land situate in Collier County, Florida, to wit:

See Attached Exhibit "A" which is incorporated herein by reference.

Subject to easements, restrictions, and reservations of record.

THIS IS NOT HOMESTEAD PROPERTY.

Grantor does not warrant ingress or egress to the lands described herein.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except as noted above.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

WITNESSES:

B.R. Crim
(Signature)

B. R. Crim
(Printed Name)

Elizabeth M. Dillingham
(Signature)

Elizabeth M. Dillingham
(Printed Name)

CDC LAND INVESTMENTS, INC., formerly known as COLLIER DEVELOPMENT CORPORATION, a Florida Corporation

BY: Patrick L. Utter
PATRICK L. UTTER, VICE PRESIDENT

THIS CONVEYANCE ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS, COLLIER COUNTY, FLORIDA, PURSUANT TO AGENDA, DATED: 2/28/06 ITEM NO. 10A

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

STATE OF FLORIDA
COUNTY OF COLLIER

The foregoing Warranty Deed was acknowledged before me this 15th day of March, 2006 by Patrick L. Utter, Vice President on behalf of CDC Land Investments, Inc., formerly known as Collier Development Corporation, a Florida Corporation, who is personally known to me ~~or who has produced~~ _____ ~~as identification~~.

(affix notarial seal)

Elizabeth M. Dillingham
(Signature of Notary Public)

Elizabeth M. Dillingham
(Print Name of Notary Public)
NOTARY PUBLIC
Serial/Commission #: DD165119
My Commission Expires: Jan 9 2007

Elizabeth M Dillingham
My Commission DD165119
Expires January 09, 2007

Approved as to form & legal sufficiency
Assistant County Attorney
Ellen T. Chadwell

COLLIER COUNTY
COPY
CLERK OF THE CIRCUIT COURT

EXHIBIT "A"

PROPERTY TAX IDENTIFICATION NUMBER: 00268160009

THE SOUTHEAST (SE¼) QUARTER OF NORTHEAST (NE¼) QUARTER AND THAT PART OF THE NORTHEAST (NE¼) QUARTER OF THE SOUTHEAST (SE¼) QUARTER OF SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, LYING EAST OF THE CREEK, LESS AND EXCEPT THE FOLLOWING TWO PARCELS:

ALL THAT TRACT OF PARCEL OF LAND LYING AND BEING IN THE NORTHEAST (NE1/4) QUARTER OF SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION OF THE EAST BOUNDARY OF STORTER SUBDIVISION WITH THE NORTH RIGHT-OF-WAY LINE OF A CANAL, RECORDED IN PLAT BOOK 5, PAGE 106; RUN IN A NORTHERLY DIRECTION 140.00 FEET, MORE OR LESS, TO THE SOUTH BOUNDARY OF GORDON RIVER HOMES SUBDIVISION, RECORDED IN PLAT BOOK 2, PAGE 84; THENCE IN AN EASTERLY DIRECTION ALONG WITH THE SOUTH BOUNDARY OF GORDON RIVER HOMES A DISTANCE OF 133.00 FEET, MORE OR LESS, TO THE MEAN HIGH WATER LINE OF GORDON RIVER; THENCE IN A SOUTHEASTERLY DIRECTION FOLLOWING THE MEANDERINGS OF THE M.H.W. LINE OF GORDON RIVER TO THE EASTERLY EXTENSION OF THE NORTH RIGHT-OF-WAY LINE OF THE CANAL IN STORTER SUBDIVISION AS RECORDED PLAT BOOK 5, PAGE 106; THENCE IN A WESTERLY DIRECTION ALONG THE EASTERLY EXTENSION OF THE NORTH RIGHT-OF-WAY LINE OF SAID CANAL TO THE POINT OF BEGINNING.

AND

EXHIBIT "A"

A PORTION OF THE SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER, SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT KNOWN AS "POINT OF ENDING OF BULKHEAD LINE NUMBER 3" AS SHOWN AND DESCRIBED ON THE BULKHEAD LINE PLAT, RECORDED IN BULKHEAD LINE PLAT BOOK 1 AT PAGE 24, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA; RUN SOUTH 89° 42' 36" EAST, ALONG SAID BULKHEAD LINE NUMBER 3, FOR 217.80 FEET; THENCE RUN SOUTH 29° 16' 45" EAST, STILL ALONG SAID BULKHEAD LINE, FOR 144.56 FEET; THENCE RUN NORTH 89° 42' 36" WEST, FOR 289.14 FEET, TO THE WEST LINE OF THE SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER OF SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA; SAID POINT BEING ON THE NORTHERLY RIGHT-OF-WAY LINE OF BEMBURY DRIVE BY POSSESSION AS MONUMENTED ON THE GROUND; SAID POINT BEING 362.32 FEET SOUTH OF THE NORTHWEST CORNER OF SAID SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER AS SHOWN ON SAID BULKHEAD PLAT (SURVEYOR'S NOTE: THE NORTHERLY RIGHT-OF-WAY LINE OF BEMBURY DRIVE IS SHOWN AS BEING 360 FEET SOUTH OF SAID NORTHWEST CORNER ON PLAT OF STORTER SUBDIVISION AS RECORDED IN PLAT BOOK 5, PAGE 105, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA); THENCE RUN NORTH 0° 17' 24" EAST, ALONG THE AFOREMENTIONED WEST LINE FOR 125.73 FEET TO THE POINT OF BEGINNING; CONTAINING 0.732 ACRES; TOGETHER WITH ALL RIPARIAN RIGHTS, INCLUDING ANY LAND CONTIGUOUS TO, AND WATERWARD OF, THE HEREIN DESCRIBED PORTION OF BULKHEAD LINE NUMBER 3.

CONSISTING OF 43.54 ACRES, MORE OR LESS.

AND

PROPERTY TAX IDENTIFICATION NUMBER: 20760800009

UNPLATTED LANDS LOCATED IN SECTION 3, TOWNSHIP 50 SOUTH, RANGE 25 EAST AND FURTHER DESCRIBED AS GOVERNMENT LOT 2 LYING WEST OF THE GORDON RIVER, LESS AND EXCEPT THE WEST 20 ACRES THEREOF AND ALSO LESS AND EXCEPT THE NORTH 800 FEET THEREOF.

CONSISTING OF 4.39 ACRES, MORE OR LESS.

3753299 OR: 3950 PG: 2584

RECORDED in OFFICIAL RECORDS of COLLIER COUNTY, FL
12/19/2005 at 04:40PM DWIGHT E. BROCK, CLERK
REC FEE 35.50
DOC-.70 .70

Retn:
CHERYL PASSIDOMO ET AL
821 5TH AVE S #201
NAPLES FL 34102

This Instrument Prepared By:
Donna H. Smith
The Trust for Public Land
4267 NW Federal Highway
Box 120
Jensen Beach, FL 34957

WARRANTY DEED
(STATUTORY FORM - SECTION 689.02, F.S.)

THIS INDENTURE, made this 19th day of December A.D. 2005, between **THE TRUST FOR PUBLIC LAND, a non-profit California corporation**, whose address is 306 N. Monroe St., Tallahassee, FL 32301, Grantor, and **COLLIER COUNTY, a political subdivision of the State of Florida**, whose address is 3301 Tamiami Trail East, Naples, Florida 34112, Grantee.

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and their heirs, legal representatives, successors and assigns. "Grantor" and "grantee" are used for singular and plural, as the context requires and the use of any gender shall include all genders.)

WITNESSETH: That the said Grantor, for and in consideration of the sum of Ten Dollars and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the land situate, lying and being in Collier County, Florida, as more particularly described on **Exhibit "A"** attached hereto and by this reference made a part hereof.

This conveyance is subject to (a) easements, restrictions, limitations and conditions of record if any now exist, but any such interests that may have been terminated are not hereby re-imposed, (b) to taxes for the current and subsequent years, unless said Grantee is exempt therefrom, (c) to the access easement reserved herein as described on **Exhibit "A"**, (d) the lease by and between Naples Zoo, Inc and Grantor, as such Lease has or will be assigned to Grantee, and (e) all subleases of the Naples Zoo, Inc. parcel , including, without limitation rights under a Memorandum of Lease recorded in O.OR. Book 2893, Page 916, Public Records of Collier County, Florida.

AND the said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF Grantor has hereunto set Grantor's hand and seal, the day and year first above written.

THIS INSTRUMENT IS EXEMPT FROM DOCUMENTARY STAMP TAXES PURSUANT TO CHAPTER 201.02(6), FLORIDA STATUTES.

THIS CONVEYANCE ACCEPTED BY THE
BOARD OF COUNTY COMMISSIONERS,
COLLIER COUNTY, FLORIDA,
PURSUANT TO AGENDA,
DATED: 11/15/2005 ITEM NO. 10E

Signed, sealed and delivered in the presence of:

(Signature of first witness)

Donna H. Smith
(Printed name of first witness)

(Signature of second witness)

Mary M. Robinson
(Printed name of second witness)

THE TRUST FOR PUBLIC LAND, a non-profit California corporation

By: Gregory J.A. Chelius

(CORPORATE SEAL)

COLLIER COUNTY
COPY
THE CIRCUIT

STATE OF FLORIDA
COUNTY OF Collier

The foregoing instrument was acknowledged before me this 19th day of December, 2005, by Gregory J.A. Chelius, Florida Director of **The Trust for Public Land, a non-profit California corporation**, on behalf of said corporation. Such person is personally known to me or has produced Flo. Drivers License as identification.

Marcene G. MacNeill
NOTARY PUBLIC

MARCENE G. MAC NEILL
MY COMMISSION # DD 321826
EXPIRES: June 20, 2008
Bonded Thru Notary Public Underwriters

(NOTARY PUBLIC SEAL)

Approved as to form & legal sufficiency

Assistant County Attorney
Ellen T. Chadwell

EXHIBIT "A"

LEGAL DESCRIPTION OF PROPERTY

SIGN ISLAND (Parcel I.D. #17830000027)

Island in 17th Ave. North, Block 38, Tier 10, Official Record Book 240, Page 93, Town of Naples, according to the map or plat thereof on file and recorded in the office of the Clerk of the Circuit Court, recorded in Plat Book 1, Page 8, in the Public Records of Collier County, Florida.

(Parcel I.D. #61940200006 and 6194032009)

Lots 3, 4 and 5 of Naples Improvement Company's Little Farms Subdivision, according to the plat thereof recorded in Plat Book 2 at Page 2, Public Records of Collier County, Florida, together with all buildings thereon; subject to the following easements of record to Florida Power & Light Company relating to adjacent Lot 6: (a) An easement dated June 10th, 1953, recorded in Deed Book 30 at Page 395 of said Public Records; and (b) An easement dated June 10th, 1953, recorded in Deed Book 30 at Page 397 of said Public Records; less and except the following described property.

LESS AND EXCEPT:

Part of Lot 3, Naples Improvement Company's Little Farms Subdivision, as per plat thereof recorded in Plat Book 2, Page 2, Public Records of Collier County, Florida, lying Easterly and Southerly of the following described line:

Commencing at a concrete monument at the South ¼ corner of Section 27, Township 49 South, Range 25 East, Collier County, Florida; thence along the South Line of said Section North 89 degrees 26' 09" East 753.94 to a point; thence South 0 degrees 21' 55" East 334.85 feet to a concrete monument on the South line of said Lot #3 and the Point of Beginning of the described line; thence along said described line and the Westerly boundary of the herein described parcel North 0 degrees 21' 55" West 211.15 feet to a concrete monument at the Northwest corner of said described Parcel; thence along said described line and the Northerly boundary of said described parcel North 89 degrees 38' 05" East 729.90 feet to a concrete monument;

COPY CLERK OF CIRCUIT COURT

thence continue North 89 degrees 38' 05" East 13 feet more or less to the Easterly boundary of Lot 3, Naples Improvement Company's Little Farms Subdivision and the Point of Ending of said described Line.

(Parcel I.D. #61947800001)

All of Lot 97 of Naples Improvement Company's Little Farms Subdivision, lying South of Golden Gate Parkway, according to the plat thereof recorded in Plat Book 2, at Page 2, Public Records of Collier County, Florida.

(Parcel I.D. #61940280000)

Lot 6 of Naples Improvement Company's Little Farms Subdivision, less additional road right-of-way for Goodlette-Frank Road, according to the map or plat thereof on file and recorded in the Office of the Clerk of the Circuit Court, recorded in Plat Book 2, Page 2, in the Public Records of Collier County, Florida, subject to a reservation by Grantor, its successors and assigns, for a permanent, non-exclusive 60-foot wide access and egress easement over the North 60 feet of the West 950 feet of said Lot 6 of Naples Improvement Company's Little Farms Subdivision.

Containing 129.981 acres, more or less

COPY
CLERK OF THE CIRCUIT COURT

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE PERMIT NO. 11-03344-P
DATE ISSUED: JUNE 11, 2012

PERMITTEE: COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS
(GORDON RIVER GREENWAY PARK)
2800 N HORSESHOE DRIVE,
NAPLES, FL 34104

PROJECT DESCRIPTION: CONSTRUCTION AND OPERATION OF A SURFACE WATER MANAGEMENT SYSTEM SERVING 125.11 ACRES OF A RECREATIONAL DEVELOPMENT KNOWN AS GORDON RIVER GREENWAY PARK WITH DISCHARGE INTO WATERS OF THE GORDON RIVER VIA ONSITE WETLANDS.

PROJECT LOCATION: COLLIER COUNTY , SECTION 27, 34 TWP 49S RGE 25E

PERMIT DURATION: See Special Condition No:1. Pursuant to Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Permit Application No. 110617-17, dated May 23, 2011. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statutes (F.S.), and the Operating Agreement Concerning Regulation Under Part IV, Chapter 373 F.S., between South Florida Water Management District and the Department of Environmental Protection.

Based on the information provided, District rules have been adhered to and an Environmental Resource Permit is in effect for this project subject to:

1. Not receiving a filed request for an administrative hearing pursuant to Section 120.57 and Section 120.569, or request a judicial review pursuant Section 120.68, Florida Statutes.
2. The attached 19 General Conditions.
3. The attached 30 Special Conditions.
4. The attached 3 Exhibits.

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Should you wish to object to the proposed agency action or file a petition, please provide written objections, petitions and/or waivers to:

Elizabeth Veguilla, Deputy Clerk, MSC2440
South Florida Water Management District
Post Office Box 24680
West Palm Beach, FL 33416-4680

Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

CERTIFICATION OF SERVICE

I HEREBY CERTIFY that the Staff Report, Conditions and Notice of Rights have been mailed to the Permittee (and the persons listed on the attached staff report distribution list) no later than 5:00 p.m. on this 12th day of June, 2012, in accordance with Section 120.60(3), Florida Statutes, and a copy has been filed and acknowledged with the Deputy District Clerk.

By Elizabeth V
DEPUTY CLERK
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Attachments

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on June 11, 2017.

2. Operation of the surface water management system shall be the responsibility of COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS.

3. Discharge Facilities:

   Basin: East
   1-2' W X 3.1' L drop inlet with crest at elev. 4.9' NAVD 88.
   Receiving body : Wetland 2
   Control elev : 1.7 feet NAVD 88.

   Basin: West
   1-40' WIDE SHARP CRESTED weir with crest at elev. 4.9' NAVD 88.
   Receiving body : Wetland 3
   Control elev : 1.7 feet NAVD 88.

   Basin: Access road
   1-3" dia. CIRCULAR ORIFICE with invert at elev. 4.6' NAVD 88.
   48 LF of 15" dia. REINFORCED CONCRETE PIPE culvert.
   1-2' W X 3.1' L drop inlet with crest at elev. 5.6' NAVD 88.
   Receiving body : Wetland 2
   Control elev : 1.8 feet NAVD 88.

4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

7. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

8. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

9. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

10. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

11. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.

12. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

13. Minimum building floor elevation:
BASIN: East - 7.20 feet NAVD 88.
BASIN: West - 7.20 feet NAVD 88.

14. Minimum road crown elevation: Basin: Access road - 6.30 feet NAVD 88.

15. Minimum parking lot elevation:
Basin: East - 5.25 feet NAVD 88.
Basin: West - 5.37 feet NAVD 88.

16. The permittee shall utilize the criteria contained in the Construction Pollution Prevention Plan (Exhibit No. 2.1) and on the applicable approved construction drawings for the duration of the project's construction activities.

17. The Urban Stormwater Management Plan shall be implemented in accordance with Exhibit No. 2.2.

18. The following exhibits for the permit are incorporated by reference herein and are located in the permit file. In addition, these exhibits can be viewed on the District's ePermitting website under this application number.

    Exhibit No. 2.1: Construction Pollution Prevention Plan
    Exhibit No. 2.2: Urban Stormwater Management Program

19. No construction associated with the proposed pedestrian bridges described by this permit may commence until a sovereign submerged lands public easement has been issued by the Florida Department of Environmental Protection. However, construction of the upland facilities may commence upon issuance of this permit by the District. If at any time during the term of this easement, Grantee fails to comply with this requirement, use of sovereignty, submerged lands described in this easement shall immediately cease and this easement shall terminate and title to this easement shall revert to and vest in the Grantor immediately and automatically.

20. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species. The applicant will follow the Construction Conditions for the smalltooth sawfish and the Standard Protection Measures for the Eastern Indigo Snake (Exhibit 3.9 and 3.10). Coordination with FWC will be required prior to any gopher tortoise relocation.

21. Prior to commencement of construction and in accordance with the work schedule in Exhibit 3.4 the permittee shall submit an electronic or hard copy version of the certified copy of the recorded conservation easement for the mitigation area(s) and associated buffer(s). The electronic version of the recorded conservation easement, and associated GIS information described below, shall be submitted via the District's ePermitting/eCompliance website. The GIS data shall be supplied in a digital ESRI Geodatabase (mdb), ESRI Shapefile (shp) or AutoCAD Drawing Interchange (dxf) file format using Florida State Plane coordinate system, East Zone (3601), Datum NAD83, HARN with the map units in feet. A map depicting the Conservation Easement over the best available satellite or aerial imagery shall also be provided. If the information is provided via hard copy the GIS data shall reside on CD disk and be submitted to the District's Environmental Resource Compliance Division in the service area office where the application was submitted.

The recorded easement shall utilize the form attached as Exhibit 3.5. Any proposed modification to the approved form must receive prior written consent from the District. The easement must be free of encumbrances or interests in the easement which the District determines are contrary to the intent of the easement. In the event it is later determined that there are encumbrances or interests in the easement which the District determines are contrary to the intent of the easement, the permittee shall be required to provide release or subordination of such encumbrances or interests.

22. A water quality monitoring program shall be implemented as outlined below:

Turbidity expressed in nephelometric turbidity units (ntu). Background samples shall be taken 200 feet upstream of any construction activity within adjacent surface waters. Compliance samples shall be taken 200 feet downstream. Samples shall be taken twice daily, with at least a four-hour interval, during all work authorized by this permit.

Monitoring shall begin on the first day of construction for all activities within or adjacent to surface waters. The monitoring data must demonstrate that turbidity 200 feet downstream of all proposed activities is less than or equal to 29 NTU's above natural background turbidity and 200 feet upstream of each proposed activity for a period of 7 consecutive days after completion of construction. If monitoring shows such levels to be exceeded, construction shall cease and District compliance staff shall be notified immediately. Work shall not resume until District staff is satisfied that adequate corrective measures have been taken and turbidity has returned to acceptable levels.

All monitoring data shall be maintained on site and be available to District staff during regular business hours. The content of the data shall include:

1) permit and application number; (2) dates of sampling and analysis; (3) statement describing the methods used in collection, handling, storage and analysis of the samples; (4) a map indicating the sampling locations and (5) a statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection and accuracy of the data.

Monitoring reports shall also include the following information for each sample that is taken:
(a) time of day samples taken;
(b) depth of water body;
(c) depth of samples;
(d) antecedent weather conditions;
(e) wind direction and velocity;
(f) direction of tide.

23. The permittee shall comply with the following conditions intended to protect manatees and marine turtles from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of marine turtles, manatees and manatee speed zones, and the need to avoid collisions with and injuries to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees and marine turtles cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee and marine turtle entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of marine turtles

and manatee(s). All in-water operations, including vessels, must be shutdown if a marine turtle or manatee(s) comes within 50 feet of the operation. Activities will not resume until the animal(s) have moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the animal(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a marine turtle or manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area must be posted. A second sign measuring at least 81/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities.

24. Within 30 days prior to the completion of construction, the permittee shall install permanent education manatee signs in accordance with FWC guidelines, including FWC approval for the number, type, and location of signs. In addition, FWC requires the permittee to agree to replace the signs in the event the signs fade, become damaged or outdated, and maintain these signs for the life of the facility. The guidelines for installation can be found at:

http://www.myfwc.com/manatee/signs/>, or can be obtained by contacting the FWC, Imperiled Species Management Section at: 620 South Meridian Street, 6A, Tallahassee, Florida 32399-1600 (telephone 850/922-4330 email ImperiledSpecies@myfwc.com).

25. A mitigation program for Gordon River Greenway Park shall be implemented in accordance with Exhibit No. 3.2-3.3. The permittee shall enhance 37.0 acres of wetlands, create/restore 0.2 acres of wetlands, and enhance/preserve 21.00 acres of uplands. The total preserve area to be placed under conservation easement consists of 73.26 acres of wetlands and 30.68 acres of uplands (approximately 104 acres).

In addition, the wetland areas that are secondarily impacted (5.34 acres) will be preserved and maintained as part of the conservation easement.

Approximately 3.61 acres of Wetland 2 and 0.2 acres of Wetland 5 are to be preserved outside of the conservation easement and will be managed in accordance with the Conservation Collier Management Plan for the site. These areas are not considered part of the wetland mitigation for this site.

26. Prior to the commencement of construction, the permittee shall conduct a pre-construction meeting with field representatives, contractors and District staff. The purpose of the meeting will be to discuss construction methods and sequencing, including type and location of turbidity and erosion controls to be implemented during construction, mobilization and staging of contractor equipment, methods of vegetation clearing, exotic and nuisance vegetation control and removal, construction dewatering if required, wetland/buffer protection methods, and endangered species protection with the permittee and contractors. The permittee shall contact District Environmental Resource Compliance staff from the Lower West Coast Service Center at 239-338-2929 to schedule the pre-construction meeting.

27. Prior to the commencement of construction, the perimeter of the conservation area shall be staked/roped/silt fenced to prevent encroachment into the protected areas. Using Global Positioning System (GPS) technology, the perimeter of the preserve area(s) shall be identified for future reference. The data shall be differentially corrected and accurate to less than a meter (+/- one meter or better). Electronic copies of the GPS data shall be provided to the District's Environmental Resource Compliance staff. The permittee shall notify the District's Environmental Resource Compliance staff in writing upon completion of staking/roping/silt fencing and schedule an inspection of this work. The staking/roping/silt fencing shall be subject to District staff approval. The permittee shall modify the staking/roping silt

/fencing if District staff determines that it is insufficient or is not in conformance with the intent of this permit. Staking/roping/fencing shall remain in place until all adjacent construction activities are complete.

28. The District reserves the right to require remedial measures to be taken by the permittee if monitoring or other information demonstrates that adverse impacts to onsite or offsite wetlands, upland conservation areas or buffers, or other surface waters have occurred due to project related activities.

29. A monitoring program shall be implemented in accordance with Exhibit No. 3.2-3.4. The monitoring program shall extend for a period of 5 years with annual reports submitted to District staff. At the end of the first monitoring period the mitigation area shall contain an 80% survival of planted vegetation. The 80% survival rate shall be maintained throughout the remainder of the monitoring program, with replanting as necessary. If native wetland, transitional, and upland species do not achieve an 80% coverage within the initial two years of the monitoring program, native species shall be planted in accordance with the maintenance program. At the end of the 5 year monitoring program the entire mitigation area shall contain an 80% survival of planted vegetation and an 80% coverage of desirable obligate and facultative wetland species.

30. A maintenance program shall be implemented in accordance with Exhibit No. 3.2 for the preserved/enhanced/created wetland/upland areas on a regular basis to ensure the integrity and viability of those areas as permitted. Maintenance shall be conducted in perpetuity to ensure that the conservation areas are maintained free from Category 1 and 2 exotic vegetation (as defined by the Florida Exotic Pest Plant Council) immediately following a maintenance activity. Maintenance in perpetuity shall also insure that conservation areas, including buffers, maintain the species and coverage of native, desirable vegetation specified in the permit. Coverage of exotic and nuisance plant species shall not exceed 5% of total cover between maintenance activities. In addition, the permittee shall manage the conservation areas such that exotic/nuisance plant species do not dominate any one section of those areas.

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373, F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved

responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

GENERAL CONDITIONS FOR AUTHORIZATIONS FOR USE OF SOVEREIGN SUBMERGED LANDS

Project No. 110617-17

Chapter 18-21.004(7), F.A.C., provides that all authorizations granted by rule or in writing under Rule 18-21.005, F.A.C., except those for aquaculture activities and geophysical testing, shall be subject to the general conditions as set forth in paragraphs (a) through (i) below. The general conditions shall be part of all authorizations under this chapter, shall be binding upon the grantee, and shall be enforceable under Chapter 253 or Chapter 258, Part II, F.S.

Chapter 18-21.004(7), F.A.C., General Conditions for Authorizations:
(a) Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.

(b) Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

(c) Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.

(d) Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

(e) Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(f) Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

(g) Structures or activities shall not create a navigational hazard.

(h) Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

(i) Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under paragraph 18-21.004(1)(g), F.A.C., or any other applicable law.

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does not constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office.** An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing
Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation
The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW
Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

FINAL APPROVED BY EXECUTIVE DIRECTOR JUNE 11, 2012

Last Date For Agency Action: June 23, 2012

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Gordon River Greenway Park

Permit No.: 11-03344-P

Application No.: 110617-17 **Associated File:** 120419-8 ERP Concurrent

Application Type: Environmental Resource (New Construction/Operation)

Location: Collier County, S27, 34/T49S/R25E

Permittee : Collier County Board Of County Commissioners

Operating Entity : Collier County Board Of County Commissioners

Project Area: 125.11 acres

Project Land Use: Recreational

Drainage Basin: WEST COLLIER **Sub Basin:** GORDON RIVER EXTENSION

Receiving Body: Gordon River via onsite wetlands **Class:** CLASS III

Special Drainage District: NA

Total Acres Wetland Onsite:	80.60
Total Acres Wetland Preserved Onsite:	75.26
Total Acres Impacted Onsite :	5.34
Total Acres Presv/Mit Compensation Onsite:	106.14

Conservation Easement To District : Yes

Sovereign Submerged Lands: Yes **Type:** Letter Of Consent Easement

PROJECT PURPOSE:

This application is a request for an Environmental Resource Permit authorizing Construction and Operation of a surface water management system serving 125.11 acres of a recreational development known as Gordon River Greenway Park with discharge into waters of the Gordon River via onsite wetlands and a Public Easement and Letter of Consent authorization to use Sovereign Submerged Lands.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The project site is located on the southeast quadrant of Golden Gate Parkway and Goodlette Frank Road, adjacent to the City of Naples, in western Collier County. A location map is attached as Exhibit 1.0.

The project site is divided into four parcels, two on each side of the Gordon River. A 12.28-acre area is located directly east of Goodlette Frank Road, south of the Naples Zoo, and west of Gordon River; the parcel includes two existing buildings and six trailers. The 12.28 acre parcel is proposed to contain an access roadway, parking area, a kayak launch, and associated facilities. The main parcel (89.33 acres) is currently undisturbed and is bordered to the north by Golden Gate Parkway; to the east by the Bear's Paw Country Club development (Permit No. 11-00130-S), the Nature Point residential development (Permit No. 11-00831-S), and the Golden Gate Canal; and to the south and west by the Gordon River. The 89.33 acre parcel will contain a parking area just south of Golden Gate Parkway and a series of asphalt and mulch trails and raised boardwalks. Stormwater runoff from these undeveloped parcels presently flows overland across the property directly into the Gordon River. Two additional undisturbed areas on the southern boundary are located either east or west of the Gordon River and cover 16.1 acres and 7.4 acres, respectively. The Golden Gate Canal is a major stormwater canal that conveys surface water from extensive portions of northern Collier County to the Gordon River and ultimately Naples Bay. This canal enters the Gordon River along the southeastern boundary of the main parcel.

The native upland habitats within the project area consist of scrubby pine flatwoods invaded by downy rose myrtle, disturbed pine flatwoods, hardwood coniferous palm mix, disturbed lands, and spoil areas. A majority of the upland habitat is located in the eastern portion of the main parcel. The wetland habitats consist of mangroves, mixed wetland hardwood, and wetland forested mix, all with varying degrees of exotic vegetation infestation. The proposed project results in direct impacts to 5.34 acres of wetlands and also secondary impacts to 5.34 acres of wetlands. The wetland habitats are described in the Wetland Section of this staff report. A FLUCCS habitat map is attached as Exhibit 3.0.

Environmental Resource Permit No. 11-03152-P, and subsequent modification, authorized improvements to the area located immediately east of Goodlette Frank Road and to the north of the 12.28-acre area mentioned above, including construction of an ingress/egress road to serve the proposed recreational development reviewed under this application.

Pursuant to coordination with the Florida Department of Environmental Protection, the mean high water elevation is 0.5 NAVD 88.

PROPOSED PROJECT:

The applicant proposes improvements to three of the four areas mentioned in the Site Description section of this staff report to support the proposed passive recreational uses, including water based recreational activities on the Gordon River (canoe/kayak launch and observation/fishing deck). The fourth area (16.1 acres) located in the southern portion of the project and west of the river will remain undeveloped. The first area (12.28 acres), immediately west of the Gordon River and between the Naples Zoo and the Conservancy of Southwest Florida, will include parking facilities and restroom areas that will serve the north-south oriented trails through the eastern portion of the site and recreational activities on the Gordon River as well as a north connection to the previously permitted access road to the zoo (Permit No. 11-03152-P) that will run parallel to Goodlette Frank Road. An existing ditch is located between the 12.28-acre area and the existing Conservancy of Southwest Florida site. A triple 24-inch by 36-inch elliptical reinforced concrete pipe (ERCP) is proposed at the location where a proposed driveway interconnect will cross the existing ditch; the driveway interconnect will allow reciprocal use of parking facilities at the Naples Zoo and Conservancy of Southwest Florida property to the south when activities at either facility

require overflow parking. A kayak launch on the western shoreline of the Gordon River is also proposed. The construction of the launch includes dredging of a small area within the Gordon River (approximately 540 square feet) as well as dredging within 0.13 acres within the adjacent wetland. Asphalt trails and elevated wooden boardwalks will be constructed throughout the park and a pedestrian bridge over the Gordon River connecting the east and west project areas is also proposed. These paths will be constructed across the wetlands and natural vegetative communities that are to remain. The 89.33-acre area on the east side of the Gordon River will include a two (2) lane access roadway from Golden Gate Parkway, a maintenance building, a restroom building, a pavilion, parking, dry detention and retention facilities, and a 10-ft pedestrian and bicyclists bridge crossing connecting to the southern 7.4-acre area. Asphalt and boardwalk trails will continue in this southern property area.

Stormwater runoff from the proposed access road from Golden Gate Parkway (GGP) will be conveyed to the proposed dry retention/detention swale system along the east side of the roadway, which will provide the required water quality treatment for this access road and compensatory water quality treatment for the proposed turn lane on GGP prior to discharging into Wetland 2. Application No. 120419-8, Permit No. 11-01304-S has been reviewed concurrently with this application in relation to the compensatory treatment for the turn lane on GGP. Stormwater runoff from the parking areas adjacent to Golden Gate Parkway will be conveyed to a proposed dry retention pond prior to overflowing into Wetland 2. Stormwater management facilities on the 12.28-acre parcel on the west side of the Gordon River will consist of two interconnected dry retention ponds that will overflow into Wetland 3. These dry surface water management systems will provide the required water quality treatment for the proposed improvements. The site plans and details of the proposed construction activities are attached as Exhibit 2.0 and 2.0A.

LAND USE:

The IMPERVIOUS land use shown below includes 1.52 acres of the proposed asphalt trails. The NATURAL AREAS will remain undisturbed.

Construction Project:

	Total Project	
Dry Detention Areas	.10	acres
Dry Retention Areas	1.08	acres
Impervious	8.92	acres
Natural Areas	109.01	acres
Open Space	6.00	acres
Total:	**125.11**	

Basin : Access road

	Total Basin	
Dry Detention Areas	.10	acres
Impervious	.16	acres
Open Space	.24	acres

Basin : Access road

	Total Basin	
Total:	**.50**	

Basin : East

	Total Basin	
Dry Retention Areas	.16	acres
Impervious	1.05	acres
Open Space	.97	acres
Total:	**2.18**	

Basin : West

	Total Basin	
Dry Retention Areas	.92	acres
Impervious	6.19	acres
Open Space	4.79	acres
Total:	**11.90**	

WATER QUANTITY :

Discharge Rate :

The proposed project will discharge or overflow into onsite wetlands and ultimately reach the Gordon River through proposed control structures as shown below. No adverse discharge impacts are anticipated as a result of the proposed project.

Discharge Storm Frequency : 25 YEAR-3 DAY Design Rainfall : 11.8 inches

Basin	Allow Disch (cfs)	Method Of Determination	Peak Disch (cfs)	Peak Stage (ft, NAVD 88)
East	n/a	On-Site Retention	n/a	5.35
West	n/a	On-Site Retention	n/a	5.5
Access road	1.1	Minimum Size Bleeder	1.1	5.93

Finished Floors :

As shown in the following table and the attached exhibits, minimum finished floor elevations have been set at or above the calculated design storm flood elevation.

Building Storm Frequency : 100 YEAR-3 DAY Design Rainfall : 14.3 inches

Basin	Peak Stage (ft, NAVD 88)	Proposed Min. Finished Floors (ft, NAVD 88)	FEMA Elevation (ft, NAVD 88)
East	7.13	7.2	7
West	7.13	7.2	7

Road Design :

As shown in the following table and the attached exhibits, minimum road center lines have been set at or above the calculated design storm flood elevation.

Road Storm Frequency : 10 YEAR-1 DAY Design Rainfall: 7.2 inches

Basin	Peak Stage (ft, NAVD 88)	Proposed Min. Road Crown (ft, NAVD 88)
Access road	5.93	6.3

Parking Lot Design :

As shown in the following table and the attached exhibits, minimum parking lot elevations have been set at or above the calculated design storm flood elevation.

Parking Lot Storm Frequency : 10 YEAR-1 DAY Design Rainfall :7.2 inches

Basin	Peak Stage (ft, NAVD 88)	Proposed Min.Parking Elev. (ft, NAVD 88)
East	5.25	5.25
West	5.37	5.37

Offsite Flows:

Stormwater runoff from Golden Gate Parkway will be directed into a proposed sediment removal device prior to the ultimate outfall to the south through an 18 inch RCP. The discharge will be conveyed in an 18 inch RCP to a proposed spreader swale along the eastern boundary of the site; the spreader swale will overflow into the existing Wetland 2. No change to the current condition of the offsite area is proposed under this application.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NAVD 88)	WSWT Ctrl Elev (ft, NAVD 88)	Method Of Determination
East	2.18	1.7	1.70	Other
West	11.90	1.7	1.70	Other
Access road	.50	1.8	1.80	Surrounding Projects

Receiving Body :

Basin	Str.#	Receiving Body
East	Outfall CS	Wetland 2
West	Weir W-1	Wetland 3
Access Road	WCS-1	Wetland 2

Discharge Structures: Note: The units for all the elevation values of structures are (ft, NAVD 88)

Bleeders:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
Access road	WCS-1	1	Circular Orifice				3"		4.6

Culverts:

Basin	Str#	Count	Type	Width	Length	Dia.

Discharge Structures:

Culverts:

Access road	WCS-1	1	Reinforced Concrete Pipe	48'	15"

Inlets:

Basin	Str#	Count	Type	Width	Length	Dia.	Crest Elev.
Access road	WCS-1	1	Fdot Mod C Drop Inlet	2'	3.1'		5.6
East	Outfall CS	1	Fdot Mod C Drop Inlet	2'	3.1'		4.9

Weirs:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Elev.
West	Weir W-1	1	Sharp Crested	40'				4.9 (crest)

WATER QUALITY :

As shown in the table below, the proposed surface water management system exceeds the required water quality treatment volume of 1.46 ac-ft. The proposed dry detention/retention system was designed based on 2.5-inches times the percentage of imperviousness plus an additional fifty percent above the treatment volume required per Section 5.2 of Volume IV - Basis of Review to provide additional assurances that the proposed project will not contribute to impairments of the quality of the downstream receiving waters.

The proposed project is located within the Gordon River Extension watershed (FDEP WBID 3278K) which has been identified by FDEP as being impaired for Dissolved Oxygen. Pollutant loading calculations demonstrate the surface water management system reduces the post-development loadings of storm water nutrients to levels less than the loadings generated under pre-development conditions. In addition, the proposed project includes implementing a Construction Pollution Prevention Plan (Exhibit 2.1) and an Urban Stormwater Management Program (Exhibit 2.2) as additional reasonable assurances of improved water quality.

A water quality monitoring program shall be implemented during construction to insure that turbidity (as measured in NTU or nephelometric turbidity units) does not exceed 29 NTUs over background ambient water quality (Exhibit 3.8 and Special Condition No. 22). Turbidity monitoring will be conducted at the locations of all in-water work. The approximate locations of turbidity sampling are depicted on page 3 of Exhibit 3.8.

No adverse water quality impacts are anticipated as a result of the proposed project.

Basin	Treatment Method		Vol Req.d (ac-ft)	Vol Prov'd
East	Treatment	Dry Retention	.17	.21
West	Treatment	Dry Retention	1.21	1.2
Access road	Treatment	Dry Retention	.03	.03
Access road	Treatment	Dry Detention	.05	.05

WETLANDS:

There are approximately 80.6 acres of wetlands within the project boundaries. This includes the 0.5 acres of mangrove wetlands within the access driveway adjacent to the park in the northern portion of the project; however this acreage is not included in the following wetland descriptions.

Wetlands 2 and 4 are located within the 'main parcel' in the northern portion of the project, Wetland 3 is located within the 12.28-acre parcel in the western side of the project (parcel 1), and Wetlands 5 and 6 are located within the southern parcels.

Wetland 2 is located between the Gordon River to the west and the Golden Gate Canal to the east, in the northern portion of the project. This 60.6-acre wetland is the largest onsite and consists of mangrove swamp with mixed wetland forest. Native vegetation includes laurel oaks, slash pine, red mangrove, black mangrove, white mangrove, white indigo berry, saw grass, Spanish stopper, and golden leather fern. Exotic vegetation consists of shoe button ardisia, Brazilian pepper, and Australian pine.

Wetland 3 (1.2 acres) is part of a larger system that extends along the western edge of the Gordon River. This wetland is located on the northern half of the property and is tidally influenced. This mixed wetland forest is disturbed and contains spoil piles throughout and a swale along the south edge. Approximately 90% of the vegetation is exotic, consisting of Brazilian pepper, Australian pine, Senegal date palm, and shoe button ardisia. Native vegetation consists of scattered red mangrove and buttonwood, cabbage palm, and leather fern.

Wetland 4 (0.6 acres) is surrounded by uplands and is located east of the Gordon River. Native vegetation includes slash pine, cabbage palm, wax myrtle, black needle rush, and swamp fern. The dominant exotic vegetation is melaleuca.

Wetland 5 is located west of the Gordon River with commercial facilities to the west and south. This 12.7-acre mangrove system consists of red, white, and black mangrove with buttonwood, crinum lily, swamp fern, and golden leather fern with Australian pine.

Wetland 6 (5.00 acres) is a mangrove wetland connected to the Gordon River to the north and west and is immediately west of the Naples Municipal Airport. The canopy consists of Australian pine, red mangrove, black mangrove, buttonwood, and cabbage palm. The subcanopy includes Brazilian pepper, sea grape, and wild lime. Groundcover includes giant and golden leather fern, scorpion's tail, and grapevine with the exotic oyster plant (Tradescantia spathacea).

Wetland Impacts:

The proposed project will directly impact a total of 5.34 acres and also secondarily impact 5.34 acres. Direct impacts consist of the construction of the proposed park facilities, including the boardwalks, parking lot, driveway access, and asphalt trail, and will result in fill and shading impacts to 5.21 acres of wetlands. The proposed canoe/kayak launch results in dredging impacts to 0.13 acres of wetlands (Wetland 3) with 0.1 acres of secondary impacts. The remaining secondary impacts consist of 15 feet of partial impacts on either side of the boardwalks due to vegetative trimming, and 25 feet of partial secondary impacts due to a lack of natural buffer for the wetlands preserved adjacent to the parking lot.

Practicable design modifications were implemented in order to reduce impacts to wetlands pursuant to Section 4.2.1 of the Basis of Review. Examples of modifications to the project design include the use of a retaining wall along the western side of the right-of-way of the access driveway to reduce the footprint of the roadway, the construction of facilities (restrooms, maintenance storage building, etc) the minimum size needed to support the proposed recreational uses and site management, and the kayak launch was located in a portion of Wetland 3 that is heavily infested with exotic and nuisance vegetation and constructed with the minimum cross section required.

The total functional loss and mitigation was calculated using the Uniform Mitigation Assessment Method

(UMAM). A copy of the analysis is in the permanent permit file.

Mitigation Proposal:

The applicant is proposing onsite mitigation to offset direct impacts to 5.34 acres of wetlands and secondary impacts to 5.34 acres of wetlands. Mitigation includes hydrologic enhancement in the northern portion of Wetland 2 (approximately 25 acres). The enhancement consists of restoring historic sheet flow by routing offsite flows from Golden Gate Parkway through a spreader swale to Wetland 2 and then to the Gordon River (See page 9 of Exhibit 2.0A for location and details of the spreader swale). The spreader swale will be planted with sand cordgrass and maidencane. Additionally, water quality improvement is anticipated by routing the water through the conveyance spreader swale prior to flowing into Wetland 2.

Adjacent to Wetland 3 an approximately 0.2-acre disturbed upland/spoil area will be graded to match the adjacent wetland elevation and planted with appropriate wetland species (buttonwood, leather fern, seashore paspalum, etc.). The created wetland area is located south and west of the Gordon River and will provide habitat support to this portion of the riparian habitat. See pages 8-10 of Exhibit 3.2 for details regarding the created wetland. Hydrology to Wetland 3 will be maintained by overflow from the proposed dry retention system within the parcel. This wetland is also tidally influenced.

Hydrology within Wetland 4 will not be altered by the proposed project. Wetland 4 is not considered tidally influenced. Wetlands 5 and 6 are tidally influenced and will continue to receive surface water flows via the Gordon River and runoff from surrounding natural upland areas.

Exotic vegetation control and removal will be conducted within Wetlands 2, 3, 4, and 6, as well as preserved uplands on the eastern side of the park. Approximately 5.7 acres of Wetland 2 will benefit from both exotic vegetation removal and water quality enhancement. Coordination with District Environmental Compliance staff is required prior to commencing construction to discuss the best means of control and removal of exotics in the areas where vehicle access is limited (Special Condition No. 26). Supplemental planting will occur in areas where natural recruitment by desirable native species is not evident by the second growing season. See page 3 of Exhibit 3.2 for the proposed planting plan.

Pursuant to coordination with the Protected Resources Division of the National Marine Fisheries Service in May 2011, the applicant will plant mangroves in the area south of the proposed kayak/canoe launch.

The onsite mitigation results in 2.15 units of excess mitigation. The conservation easement includes 37.20 acres of wetland mitigation, the 21 acres of upland mitigation, as well as an additional 32.92 acres of wetlands and 9.68 acres of uplands. The additional wetland and upland acreage are not part of the mitigation plan, and will be managed in accordance with the Conservation Collier Management Plan for the site.

Wetland Inventory:

The 740 FLUCCS code associated with Wetland 3 refers to the wetland enhancement and creation areas within the spoil pile and disturbed wetland habitat. The 329 FLUCCS code denotes the 'scrubby flatwoods' habitat (Noted on FLUCCS habitat map as FLUCCS code 327). The 5.34 acres of wetland impacts noted on the first page of the staff report does not include the 5.34 acres of secondary wetland impacts.

There is a 5.7-acre overlap between the 7.7 acres of enhancement (exotic vegetation removal) in Wetland 2 and the 25.00 acres of enhancement (hydrologic and water quality improvements). The north end of Wetland 2 (approximately 3.61 acres), although preserved, is not included in the conservation

easement area due to the location of the proposed parking area and trail which cuts this area off from the remaining wetland preserve. Approximately 0.2 acres of the extreme north west corner of Wetland 5 is within a recorded access easement, and is not included in the conservation easement, although it is to be preserved at this time.

Wetland Inventory :

CONSTRUCTION NEW -Gordon River Greenway

Site Id	Site Type	Pre-Development				Post-Development						
		Pre Fluccs	AA Type	Acreage (Acres)	Current Wo Pros	With Project	Time Lag (Yrs)	Risk Factor	Pres. Adj. Factor	Post Fluccs	Adj Delta	Functional Gain / Loss
Up1	ON	329	Preservation	15.50	.65	.80	1	1.00	.90	329	.135	2.093
Up2	ON	329	Enhancement	5.50	.45	.80	3	1.25		329	.262	1.439
W2C	ON	612	Direct	.50	.63						-.630	-.315
W2b	ON	612	Direct	1.46	.70						-.700	-1.022
W2e	ON	612	Enhancement	7.35	.63	.80	5	1.50		612	.099	.731
W2s1	ON	617	Secondary	.70	.67	.60					-.070	-.049
W2s2	ON	612	Secondary	3.98	.70	.57					-.130	-.517
W2w	ON	612	Enhancement	23.80	.63	.67	1	1.00		612	.040	.952
W3a	ON	630	Direct	.13	.53						-.530	-.069
W3b	ON	630	Direct	.06	.53						-.530	-.032
W3e	ON	630	Enhancement	.75	.53	.80	5	1.50		630	.158	.116
W3ee	ON	740	Enhancement	.20	.00	.80	3	1.25		612	.598	.120
W3s	ON	630	Secondary	.26	.53	.47					-.060	-.016
W4e	ON	641	Enhancement	.60	.57	.77	3	1.25		641	.150	.090
W6a	ON	612	Direct	.10	.57						-.570	-.057
W6e	ON	612	Enhancement	4.50	.53	.73	3	1.25		612	.150	.673
W6s	ON	612	Secondary	.40	.57	.47					-.100	-.040
WL2a	ON	612	Direct	3.09	.63						-.630	-1.947
			Total:	68.88								2.15

Wetland Inventory :

CONSTRUCTION NEW -Gordon River Greenway - Preservation areas - no mitigation

Site Id	Site Type	Pre-Development				Post-Development						
		Pre Fluccs	AA Type	Acreage (Acres)	Current Wo Pros	With Project	Time Lag (Yrs)	Risk Factor	Pres. Adj. Factor	Post Fluccs	Adj Delta	Functional Gain / Loss
UP1	ON	329	Preservation	4.29								
Up5	ON	434	Preservation	3.66								
Up6	DN	329	Preservation	1.73								
W2	ON	612	Preservation	20.22								
W5	ON	612	Preservation	12.70								
			Total:	42.60								

Fluccs Code	Description
329	Other Shrub And Brush
434	Hardwood - Conifer Mixed
612	Mangrove Swamps
617	Mixed Wetland Hardwoods
630	Wetland Forested Mixed
641	Freshwater Marshes
740	Disturbed Lands

Wildlife Issues:

The project site does contain preferred habitat for wetland-dependent endangered or threatened wildlife species or species of special concern. The following listed species information is from the Gordon River Greenway Preserve Land Management Plan and from listed species surveys by Cardno ENTRIX.

The project area provides foraging and nesting habitat for wading birds including wood stork, roseate spoonbill, white ibis, and reddish egret. Additionally, there is a yellow-crown night heron rookery located within a small mangrove island on the north side of the confluence of the Gordon River with the Golden Gate Canal, outside of the project boundaries. The project boundary is within the 18-6 mile core foraging area (CFA) of a wood stork nesting colony (Corkscrew Swamp Sanctuary). However, the proposed wetland impacts are located in areas with closed canopy which are not as likely to be accessed by wood storks for foraging. The proposed onsite habitat enhancement is anticipated to offset minor impacts to foraging habitat.

According to the Florida Fish and Wildlife Conservation Commission (FWC) Research Institute's 2007 Manatee Mortality Report, three manatee deaths occurred within one mile of the property boundary, although none of the deaths were attributed to human-related causes/boating collisions. Collier County will implement the FWC's Standard Manatee Conditions for In-Water Work for all bridge and boardwalk construction conducted within the Gordon River to ensure no impacts this species (Special Condition No. 23) Additionally, the footers for the pedestrian bridge will be installed in the adjoining mangroves to avoid obstruction within the Gordon River that might impact manatee movements. Pursuant to correspondence from FWC, within 30-days of completion of construction, permanent manatee signs are required at the kayak launch area (Special Condition No. 24). The permittee needs to replace the signs in the event the signs fade, become damaged or outdated, and maintain these signs for the life of the facility. The on-site locations and types of signs must be acceptable to the FWC. Pursuant to correspondence from the US Fish and Wildlife Service (USFWS) September 27, 2011 the project may affect, but is not likely to adversely affect the manatee.

Although there is low potential for both small tooth sawfish and sea turtles due to the surrounding urbanized area downstream of the project, the National Marine Fisheries Service (NMFS) Sea Turtle and Smalltooth Sawfish Construction Conditions will be utilized during all in-water work (Exhibit 3.9).

A high density of gopher tortoise, a state-listed threatened species, utilizes the upland habitat within the project area. A total of 119 active burrows, 87 inactive burrows, and 110 abandoned burrows were documented onsite. Proposed park improvements have been designed to avoid areas occupied by tortoises to the extent possible. The County will coordinate with FWC for any required tortoise relocation in areas where burrows cannot be avoided.

There is some potential for Eastern Indigo snake, a Federally listed threatened species, within the project

area. The U.S. Fish and Wildlife Service (USFWS) Standard Protection Measures for the Eastern Indigo Snake will be utilized to minimize impacts to this species (Exhibit 3.10).

This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

Species	Potential Occurence	Use Types
Big Cypress Fox Squirrel	Known Range	Foraging
		Nesting
Eastern Indigo Snake	Known Range	Foraging
Gopher Tortoises	Observed Active Burrows	Burrows
		Foraging
Herons	Known Range	Foraging
		Nesting
Manatee	Known Range	Foraging
Roseate Spoonbill	Known Range	Foraging
White Ibis	Known Range	Foraging
Wood Stork	Known Range	Foraging

LEGAL ISSUES:

The proposed project will place a total of approximately 104 acres under a Standard Passive Recreational Conservation Easement (73.26 acres of wetlands and 30.68 acres of uplands).

There is an additional 3.61 acres on the north end of Wetland 2 and 0.2 acres of the north west corner of Wetland 5 which are not included in the conservation easement acreage, but have been noted as 'preserved' (see page 1 of the staff report for total acres of preserve, which includes this acreage). These areas will be included in the exotic and nuisance species removal and maintenance. The 1.61 acres of direct (100% secondarily) impacts associated with the boardwalks within Wetlands 2, 3, and 6 are not included in the page 1 staff report for total acres of preserve, but are within the 104 acres of the passive recreational conservation easement.

A copy of the draft Conservation Easement form and associated sketch and legal descriptions are attached as Exhibit 3.5. The Conservation Easement form references the granting agreement and management plan required per the funding agency Florida Communities Trust (FCT). Please see Exhibits 3.11 for a copy of the granting agreement and Exhibit 3.12 for pertinent excerpts from the current draft of the Land Management Plan for Gordon River Greenway Park.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

SOVEREIGN/SUBMERGED LANDS:

According to a title determination issued by the Florida Department of Environmental Protection, Division of State Lands on October 28, 2011 the construction of the two pedestrian bridges and a kayak launch lie within state owned submerged lands lying below the mean high water line of the Gordon River. The construction of the boardwalks affect tidal areas within the project boundary.

The proposed dredging below and waterward of the Mean High Water Line in the Gordon River for the construction of a channel to provide access for kayaks/canoes qualifies for a Letter of Consent to use Sovereign Submerged Lands in accordance with Chapter 18-21.005(1)(c) F.A.C. (Florida Administrative Code). A total of approximately 46 cubic yards will be dredged from an area of 540 square feet (0.012 acres). All material removed during dredging will be disposed of in uplands. The launch site will have signs posted prohibiting use of the facility by motorized watercraft. The proposed project meets the requirements of Rule 18-21.011(3)(c) F.A.C., for a waiver of the severed dredge material payment

This application grants authorization for a public easement for 3,192 square feet (0.07 acres) for one pedestrian bridge and 1,778 square feet (0.04 acres) for a second pedestrian bridge pursuant to Chapter 18-21.009 F.A.C. The total square footage of the bridge crossings over sovereign submerged land is approximately 4,970 sq. ft. (0.11 acres).

The Delegation of Authority form for the District to review the sovereign submerged lands authorization on behalf of the Florida Department of Environmental Protection (FDEP) is attached as Exhibit 3.6. The legal descriptions and sketches for the public easement area are attached as Exhibit 3.7.

The proposed fishing pier located adjacent to the airport will be installed entirely in uplands and will not extend into the waterway. A 'No Boat Mooring' sign will be added to the structure. No fish cleaning stations are proposed. Monofilament line collection tubes will be placed at the fishing platform and kayak launch area.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that irrigation is not necessary for this project.

The applicant has indicated that dewatering is required for construction of the kayak launch channel. Dewatering Permit No. 11-03315-W was issued April 16, 2012.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

City of Naples Utilities.

Waste Water System/Supplier:

City of Naples Utilities.

Right-Of-Way Permit Status:

A District Right-of-Way Permit is not required for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

A Phase 1, and subsequently a Phase II Cultural Resources Assessment, were performed in August and December 2007 respectively on the Gordon River Greenway Park parcel. Collier County received correspondence on August 25, 2008 from the State Division of Historical Resources indicating concurrency on the determination that there are no sites eligible for listing on the National Register of Historic Places. Additionally, on September 9, 2011, the District received correspondence from the Florida Department of State, Division of Historical Resources indicating that no significant archaeological or historical resources are recorded in the project area and therefore the project is unlikely to have an effect upon any such properties. This permit does not release the permittee from compliance with any other agencies' requirements in the event that historical and/or archaeological resources are found on the site.

DEO/CZM Consistency Review:

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF RECOMMENDATION TO EXECUTIVE DIRECTOR:

The Staff recommends that the following be issued :

Construction and Operation of a surface water management system serving 125.11 acres of a recreational development known as Gordon River Greenway Park with discharge into waters of the Gordon River via onsite wetlands.

Based on the information provided, District rules have been adhered to.

Staff recommendation is for approval subject to the attached
General and Special Conditions.

STAFF REVIEW:

NATURAL RESOURCE MANAGEMENT APPROVAL

ENVIRONMENTAL EVALUATION

Karyn Allman

SUPERVISOR

Laura Layman

SURFACE WATER MANAGEMENT APPROVAL

ENGINEERING EVALUATION

Carmen Quan, P.E.

SUPERVISOR

Daniel F. Waters, P.E.

ENVIRONMENTAL RESOURCE PERMITTING BUREAU CHIEF :

Anita R. Bain

DATE: 6/11/12

REGULATION DIVISION ASSISTANT DIRECTOR :

Anthony M. Waterhouse, P.E.

DATE: 6/11/12

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental

GENERAL CONDITIONS

Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No

GENERAL CONDITIONS

Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on June 11, 2017.
2. Operation of the surface water management system shall be the responsibility of COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS.
3. Discharge Facilities:

   Basin: East
   1-2' W X 3.1' L drop inlet with crest at elev. 4.9' NAVD 88.
   Receiving body : Wetland 2
   Control elev : 1.7 feet NAVD 88.

   Basin: West
   1-40' WIDE SHARP CRESTED weir with crest at elev. 4.9' NAVD 88.
   Receiving body : Wetland 3
   Control elev : 1.7 feet NAVD 88.

   Basin: Access road
   1-3" dia. CIRCULAR ORIFICE with invert at elev. 4.6' NAVD 88.
   48 LF of 15" dia. REINFORCED CONCRETE PIPE culvert.
   1-2' W X 3.1' L drop inlet with crest at elev. 5.6' NAVD 88.
   Receiving body : Wetland 2
   Control elev : 1.8 feet NAVD 88.
4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.
5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.
6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.
7. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
8. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
9. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.
10. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.
11. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance

SPECIAL CONDITIONS

upon the property.

12. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

13. Minimum building floor elevation:
BASIN: East - 7.20 feet NAVD 88.
BASIN: West - 7.20 feet NAVD 88.

14. Minimum road crown elevation: Basin: Access road - 6.30 feet NAVD 88.

15. Minimum parking lot elevation:
Basin: East - 5.25 feet NAVD 88.
Basin: West - 5.37 feet NAVD 88.

16. The permittee shall utilize the criteria contained in the Construction Pollution Prevention Plan (Exhibit No. 2.1) and on the applicable approved construction drawings for the duration of the project's construction activities.

17. The Urban Stormwater Management Plan shall be implemented in accordance with Exhibit No. 2.2.

18. The following exhibits for the permit are incorporated by reference herein and are located in the permit file. In addition, these exhibits can be viewed on the District's ePermitting website under this application number.

    Exhibit No. 2.1: Construction Pollution Prevention Plan
    Exhibit No. 2.2: Urban Stormwater Management Program

19. No construction associated with the proposed pedestrian bridges described by this permit may commence until a sovereign submerged lands public easement has been issued by the Florida Department of Environmental Protection. However, construction of the upland facilities may commence upon issuance of this permit by the District. If at any time during the term of this easement, Grantee fails to comply with this requirement, use of sovereignty, submerged lands described in this easement shall immediately cease and this easement shall terminate and title to this easement shall revert to and vest in the Grantor immediately and automatically.

20. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species. The applicant will follow the Construction Conditions for the smalltooth sawfish and the Standard Protection Measures for the Eastern Indigo Snake (Exhibit 3.9 and 3.10). Coordination with FWC will be required prior to any gopher tortoise relocation.

21. Prior to commencement of construction and in accordance with the work schedule in Exhibit 3.4 the permittee shall submit an electronic or hard copy version of the certified copy of the recorded conservation easement for the mitigation area(s) and associated buffer(s). The electronic version of

SPECIAL CONDITIONS

the recorded conservation easement, and associated GIS information described below, shall be submitted via the District's ePermitting/eCompliance website. The GIS data shall be supplied in a digital ESRI Geodatabase (mdb), ESRI Shapefile (shp) or AutoCAD Drawing Interchange (dxf) file format using Florida State Plane coordinate system, East Zone (3601), Datum NAD83, HARN with the map units in feet. A map depicting the Conservation Easement over the best available satellite or aerial imagery shall also be provided. If the information is provided via hard copy the GIS data shall reside on CD disk and be submitted to the District's Environmental Resource Compliance Division in the service area office where the application was submitted.

The recorded easement shall utilize the form attached as Exhibit 3.5. Any proposed modification to the approved form must receive prior written consent from the District. The easement must be free of encumbrances or interests in the easement which the District determines are contrary to the intent of the easement. In the event it is later determined that there are encumbrances or interests in the easement which the District determines are contrary to the intent of the easement, the permittee shall be required to provide release or subordination of such encumbrances or interests.

22. A water quality monitoring program shall be implemented as outlined below:

Turbidity expressed in nephelometric turbidity units (ntu). Background samples shall be taken 200 feet upstream of any construction activity within adjacent surface waters. Compliance samples shall be taken 200 feet downstream. Samples shall be taken twice daily, with at least a four-hour interval, during all work authorized by this permit.

Monitoring shall begin on the first day of construction for all activities within or adjacent to surface waters. The monitoring data must demonstrate that turbidity 200 feet downstream of all proposed activities is less than or equal to 29 NTU's above natural background turbidity and 200 feet upstream of each proposed activity for a period of 7 consecutive days after completion of construction. If monitoring shows such levels to be exceeded, construction shall cease and District compliance staff shall be notified immediately. Work shall not resume until District staff is satisfied that adequate corrective measures have been taken and turbidity has returned to acceptable levels.

All monitoring data shall be maintained on site and be available to District staff during regular business hours. The content of the data shall include:

1) permit and application number; (2) dates of sampling and analysis; (3) statement describing the methods used in collection, handling, storage and analysis of the samples; (4) a map indicating the sampling locations and (5) a statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection and accuracy of the data.

Monitoring reports shall also include the following information for each sample that is taken:
(a) time of day samples taken;
(b) depth of water body;
(c) depth of samples;
(d) antecedent weather conditions;
(e) wind direction and velocity;
(f) direction of tide.

23. The permittee shall comply with the following conditions intended to protect manatees and marine turtles from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of marine turtles, manatees and manatee speed zones, and the need to avoid collisions with and injuries to manatees.

SPECIAL CONDITIONS

The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees and marine turtles cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee and marine turtle entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of marine turtles and manatee(s). All in-water operations, including vessels, must be shutdown if a marine turtle or manatee(s) comes within 50 feet of the operation. Activities will not resume until the animal(s) have moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the animal(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a marine turtle or manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area must be posted. A second sign measuring at least 81/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities.

24. Within 30 days prior to the completion of construction, the permittee shall install permanent education manatee signs in accordance with FWC guidelines, including FWC approval for the number, type, and location of signs. In addition, FWC requires the permittee to agree to replace the signs in the event the signs fade, become damaged or outdated, and maintain these signs for the life of the facility. The guidelines for installation can be found at:

    http://www.myfwc.com/manatee/signs/>, or can be obtained by contacting the FWC, Imperiled Species Management Section at: 620 South Meridian Street, 6A, Tallahassee, Florida 32399-1600 (telephone 850/922-4330 email ImperiledSpecies@myfwc.com).

25. A mitigation program for Gordon River Greenway Park shall be implemented in accordance with Exhibit No. 3.2-3.3. The permittee shall enhance 37.0 acres of wetlands, create/restore 0.2 acres of wetlands, and enhance/preserve 21.00 acres of uplands. The total preserve area to be placed under conservation easement consists of 73.26 acres of wetlands and 30.68 acres of uplands (approximately 104 acres).

    In addition, the wetland areas that are secondarily impacted (5.34 acres) will be preserved and maintained as part of the conservation easement.

    Approximately 3.61 acres of Wetland 2 and 0.2 acres of Wetland 5 are to be preserved outside of the

SPECIAL CONDITIONS

conservation easement and will be managed in accordance with the Conservation Collier Management Plan for the site. These areas are not considered part of the wetland mitigation for this site.

26. Prior to the commencement of construction, the permittee shall conduct a pre-construction meeting with field representatives, contractors and District staff. The purpose of the meeting will be to discuss construction methods and sequencing, including type and location of turbidity and erosion controls to be implemented during construction, mobilization and staging of contractor equipment, methods of vegetation clearing, exotic and nuisance vegetation control and removal, construction dewatering if required, wetland/buffer protection methods, and endangered species protection with the permittee and contractors. The permittee shall contact District Environmental Resource Compliance staff from the Lower West Coast Service Center at 239-338-2929 to schedule the pre-construction meeting.

27. Prior to the commencement of construction, the perimeter of the conservation area shall be staked/roped/silt fenced to prevent encroachment into the protected areas. Using Global Positioning System (GPS) technology, the perimeter of the preserve area(s) shall be identified for future reference. The data shall be differentially corrected and accurate to less than a meter (+/- one meter or better). Electronic copies of the GPS data shall be provided to the District's Environmental Resource Compliance staff. The permittee shall notify the District's Environmental Resource Compliance staff in writing upon completion of staking/roping/silt fencing and schedule an inspection of this work. The staking/roping/silt fencing shall be subject to District staff approval. The permittee shall modify the staking/roping silt /fencing if District staff determines that it is insufficient or is not in conformance with the intent of this permit. Staking/roping/fencing shall remain in place until all adjacent construction activities are complete.

28. The District reserves the right to require remedial measures to be taken by the permittee if monitoring or other information demonstrates that adverse impacts to onsite or offsite wetlands, upland conservation areas or buffers, or other surface waters have occurred due to project related activities.

29. A monitoring program shall be implemented in accordance with Exhibit No. 3.2-3.4. The monitoring program shall extend for a period of 5 years with annual reports submitted to District staff. At the end of the first monitoring period the mitigation area shall contain an 80% survival of planted vegetation. The 80% survival rate shall be maintained throughout the remainder of the monitoring program, with replanting as necessary. If native wetland, transitional, and upland species do not achieve an 80% coverage within the initial two years of the monitoring program, native species shall be planted in accordance with the maintenance program. At the end of the 5 year monitoring program the entire mitigation area shall contain an 80% survival of planted vegetation and an 80% coverage of desirable obligate and facultative wetland species.

30. A maintenance program shall be implemented in accordance with Exhibit No. 3.2 for the preserved/enhanced/created wetland/upland areas on a regular basis to ensure the integrity and viability of those areas as permitted. Maintenance shall be conducted in perpetuity to ensure that the conservation areas are maintained free from Category 1 and 2 exotic vegetation (as defined by the Florida Exotic Pest Plant Council) immediately following a maintenance activity. Maintenance in perpetuity shall also insure that conservation areas, including buffers, maintain the species and coverage of native, desirable vegetation specified in the permit. Coverage of exotic and nuisance plant species shall not exceed 5% of total cover between maintenance activities. In addition, the permittee shall manage the conservation areas such that exotic/nuisance plant species do not dominate any one section of those areas.

GENERAL CONDITIONS FOR AUTHORIZATIONS FOR USE OF SOVEREIGN SUBMERGED LANDS

Project No. 110617-17

Chapter 18-21.004(7), F.A.C., provides that all authorizations granted by rule or in writing under Rule 18-21.005, F.A.C., except those for aquaculture activities and geophysical testing, shall be subject to the general conditions as set forth in paragraphs (a) through (i) below. The general conditions shall be part of all authorizations under this chapter, shall be binding upon the grantee, and shall be enforceable under Chapter 253 or Chapter 258, Part II, F.S.

Chapter 18-21.004(7), F.A.C., General Conditions for Authorizations:
(a) Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.

(b) Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

(c) Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.

(d) Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

(e) Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(f) Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

(g) Structures or activities shall not create a navigational hazard.

(h) Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

(i) Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under paragraph 18-21.004(1)(g), F.A.C., or any other applicable law.

Application No. 110617-17
Permit No. 11-03344-P
GORDON RIVER GREENWAY PARK

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3.4 Mitigation Work Schedule

3.5 Conservation Easement & Sketch and Legal Description Conservation Easement

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3.7 Public Easement Sketch and Legal Description

3.8 Turbidity Monitoring Plan

3.9 Small Tooth Sawfish and Manatee Construction Conditions

CONSTRUCTION PLANS
FOR
GORDON RIVER GREENWAY PARK
LOCATED IN SECTIONS 27 AND 34,
TOWNSHIP 49 SOUTH, RANGE 25 EAST
COLLIER COUNTY, FLORIDA
AUGUST 2011

Collier County

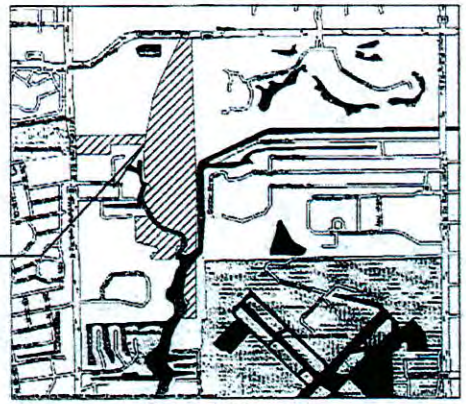


APPLICATION NUMBER
110617-17

RECEIVED
SEP 29 2011
LWC SERVICE CENTER

GENERAL NOTES

1. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS UNLESS PRIOR APPROVAL BY THE ENGINEER.
2. ALL CLEARING AND GRUBBING DEBRIS TO BE MULCHED OR REMOVED FROM SITE AND IS PART OF CLEARING AND GRUBBING ITEM.
3. IT IS THE INTENT OF THE OWNER THAT CERTAIN TREES (SPECIMEN AND NATIVE) BE DESIGNATED TO BE SAVED AND PROTECTED BY THE CONTRACTOR. IT IS ASSUMED THOSE TREES ARE HEALTHY AND ARE EXPECTED TO BE PART OF THE LANDSCAPE DEVELOPMENT. THEREFORE, IF ANY TREE(S) DAMAGED BY CONSTRUCTION OPERATION OR BY OTHER MEANS (INCLUDING LIGHTNING, WINDSTORM AND OTHER ACTS OF GOD) PERISH WITHIN THE CONSTRUCTION PERIOD, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THEM AS PART HIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE MADE BY THE OWNER FOR THE LABOR, MATERIAL OR MACHINERY REQUIRED TO REMOVE SAID TREE(S).
4. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE THE ROOT SYSTEMS. NO EQUIPMENT, SUPPLIES OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF THE TREES TO REMAIN AND PRESERVED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
5. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, AND 2' WIDE STRIP ADJACENT TO ALL CURBING, AND AS DIRECTED BY THE ENGINEER. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISHED EARTHWORK GRADING WILL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST. ALL EROSION SILTATION AND MAINTAINING GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL PROJECT IS COMPLETE AND ACCEPTED BY OWNER.
6. "CALL SUNSHINE" (811), COMCAST CABLE, FLORIDA POWER & LIGHT, US METROPOLITAN TELECOM PHONE COMPANY, EMBARQ PHONE COMPANY, CITY OF NAPLES UTILITIES, COLLIER COUNTY UTILITIES, PRIOR TO CONSTRUCTION AND CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
7. ALL UTILITY LINES, STORM DRAIN LINES AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO: MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS AND INLETS WILL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. CLEARING, GRUBBING, STRIPPING, AND COMPACTING WILL BE INSPECTED BY THE ENGINEER PRIOR TO FILLING.
9. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS WITHIN AND ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. THE ENGINEER WILL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR PROTECTION OF PRESERVE AREAS. ADDITIONAL BMP MEASURES MAY BE NECESSARY TO ENSURE THAT TURBID WATER IS NOT DISCHARGED FROM THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE STORMWATER POLLUTION PLAN, THE N.P.D.E.S. PERMIT AND THE ENVIRONMENTAL RESOURCE PERMIT APPROVAL OF THE APPROPRIATE WATER MANAGEMENT DISTRICT AND COLLIER COUNTY. THE ENGINEER SHALL BE NOTIFIED WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE.
10. EXISTING CONDITIONS INFORMATION PREPARED BY WILSON MILLER PSM. DATES OF SURVEY FOR NORTH AND SOUTH PORTIONS OF THE PROJECT ARE 8/4/2007 AND 12/17/2007. REFER TO SURVEYOR'S REPORT/NOTES ON SHEET C1.00 FOR ADDITIONAL DETAIL. SURVEY INFORMATION PROVIDED BY COLLIER COUNTY.
11. ELEVATIONS BASE ON NORTH AMERICAN VERTICAL DATUM OF NAVD 1988.
12. ALL DETAILS AND SPECIFICATIONS SHALL ADHERE TO THE COLLIER COUNTY AND CITY OF NAPLES STANDARDS, LATEST REVISION.
13. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT AUTHORIZE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EASEMENT OF RECORD.



VICINITY MAP
N.T.S.

DRAWING INDEX

Sheet Number	Sheet Title
C1.0	TITLE SHEET
C1.0A	BOUNDARY SURVEY EXHIBIT
C1.0B	BOUNDARY SURVEY EXHIBIT
C1.0C	BOUNDARY SURVEY EXHIBIT
C1.0D	GENERAL NOTES
C2.0	AERIAL MAP
C3.0	OVERALL PROJECT SITE DEVELOPMENT PLAN
D4.1	CLEARING DEMOLITION & EROSION CONTROL PLAN
D4.2	CLEARING DEMOLITION & EROSION CONTROL PLAN
D4.3	CLEARING DEMOLITION & EROSION CONTROL PLAN
D4.4	CLEARING DEMOLITION & EROSION CONTROL PLAN
D4.5	CLEARING DEMOLITION & EROSION CONTROL PLAN
C5.1	SITE PAVING GRADING & DRAINAGE PLAN
C5.2	SITE PAVING GRADING AND DRAINAGE PLAN
C5.3	SITE PAVING GRADING AND DRAINAGE PLAN NORTHEAST PARKING MODE
C5.4	SITE PAVING GRADING AND DRAINAGE PLAN SOUTH PARKING MODE
C5.5	SITE PAVING GRADING AND DRAINAGE PLAN 200 PARKING MODE
C7.0	MISCELLANEOUS DETAILS
C7.1	DRAINAGE STRUCTURES DETAILS
C7.2	EROSION CONTROL & MISCELLANEOUS DETAILS
C7.3	TYPICAL ROADWAY DETAILS
C7.3EA	PEDESTRIAN BRIDGE DETAILS
C7.4EA	PEDESTRIAN BRIDGE DETAILS
C7.4EA	WETWATER AREA DETAILS
C7.5A	SMALL STRUCTURE DETAIL

PREPARED FOR:

COLLIER COUNTY
PARKS AND RECREATION DEPARTMENT
15000 LIVINGSTON ROAD
NAPLES, FL 34109
PH: 239-252-4038
FAX: 239-252-6532

CONSERVATION COLLIER
FACILITIES MANAGEMENT BUILDING
3335 TAMIAMI TRAIL EAST, SUITE 101
NAPLES, FL 34112-5356
PH: 239-252-2961
FAX: 239-252-6713

PREPARED BY
Kimley-Horn and Associates, Inc.

SITE DATA

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN OF THIS PROJECT, AS PREPARED UNDER MY PERSONAL DIRECTION AND CONTROL COMPLIES WITH ALL APPLICABLE STANDARDS, INCLUDING THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO [illegible] AND (4), FLORIDA STATUTES AND COLLIER COUNTY DEVELOPMENT CODE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

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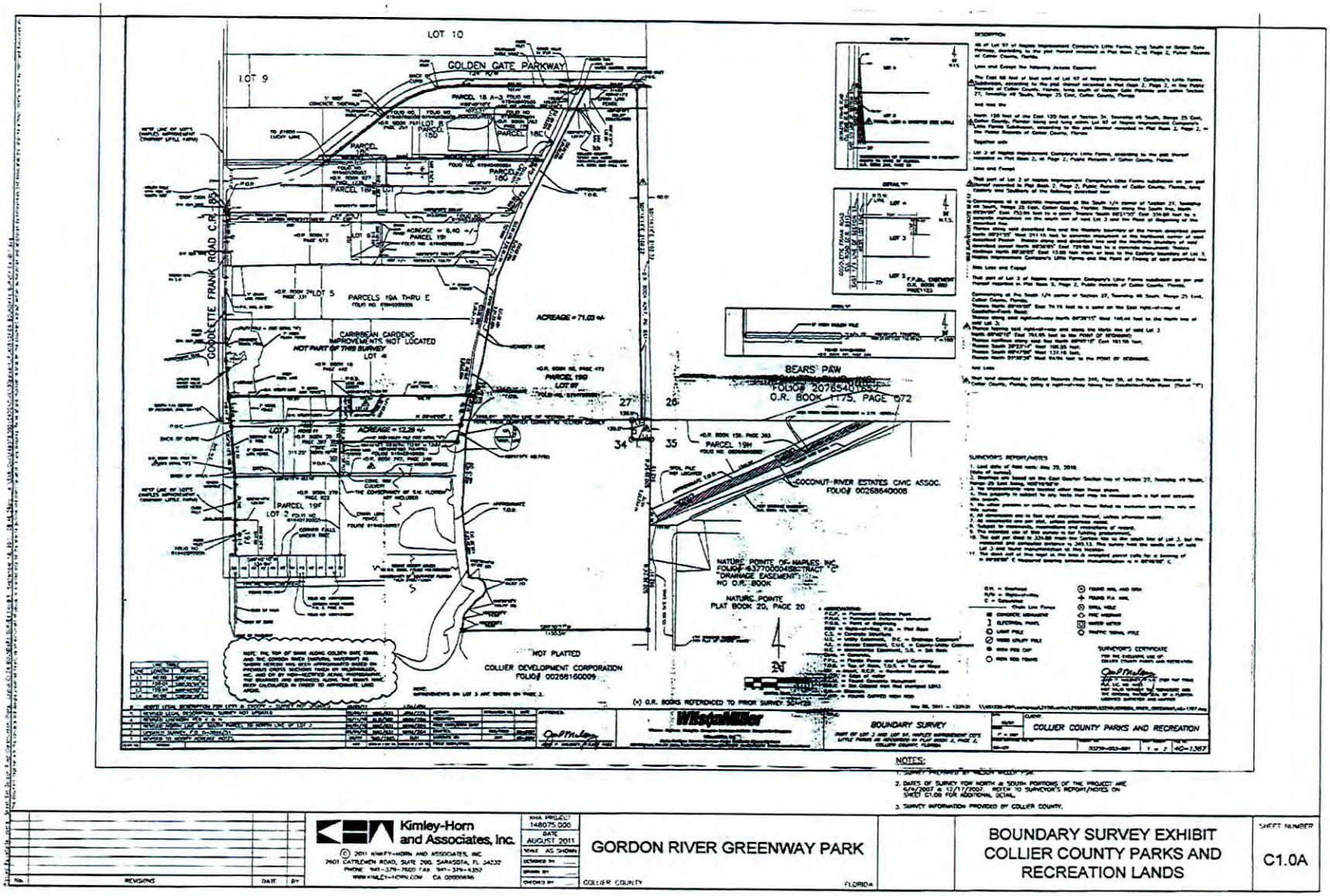
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LOT 9
GOLDEN GATE PARKWAY
GODDELETTE FRANK ROAD C.R. 865
PARCEL 18 A-3
PARCEL 18C
PARCEL 19A
PARCEL 19B
PARCEL 19C
PARCEL 19D
PARCEL 19E
PARCEL 19F
PARCEL 19H
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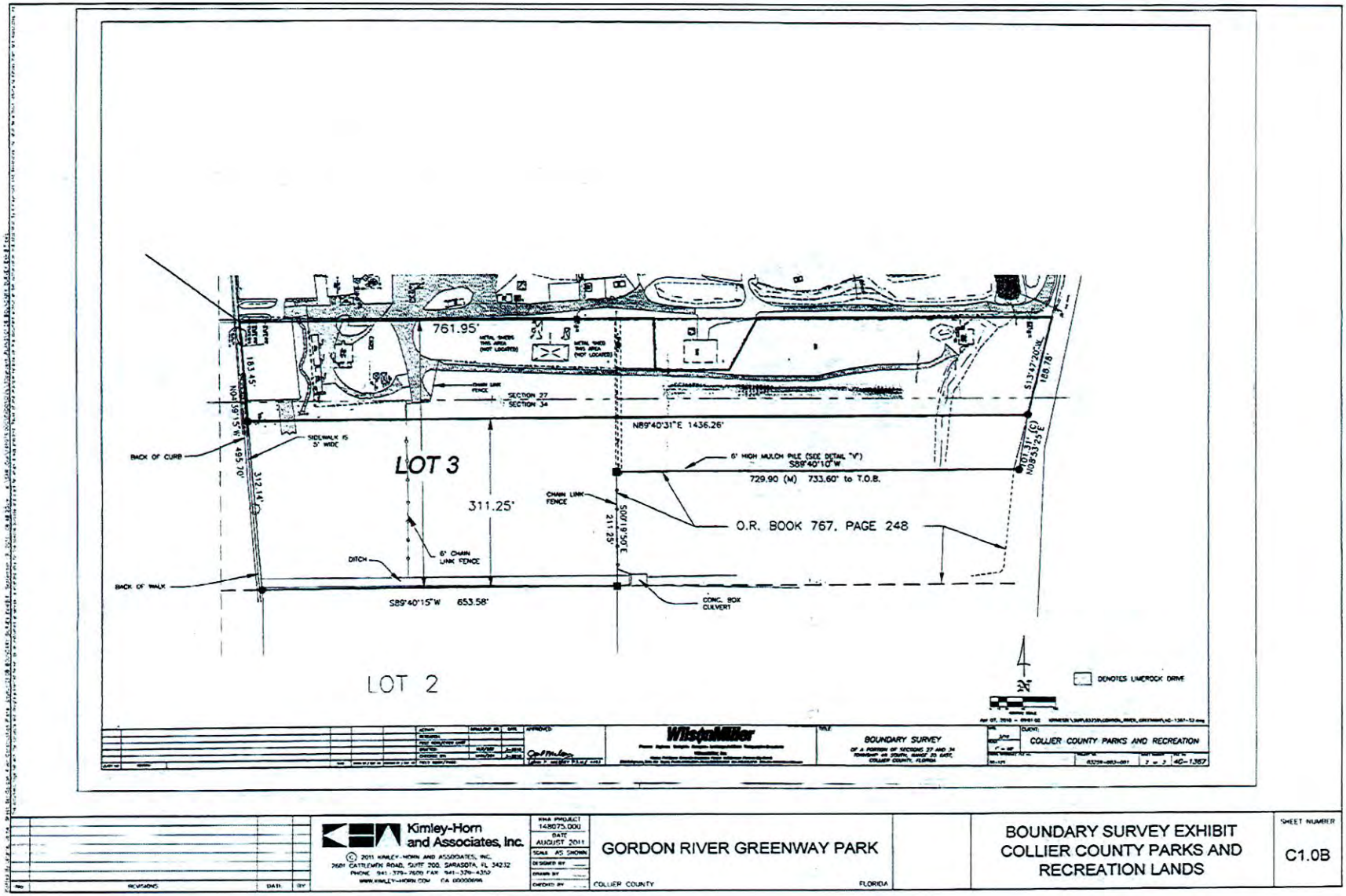

Kimley-Horn and Associates, Inc.

GORDON RIVER GREENWAY PARK

COLLIER COUNTY FLORIDA

BOUNDARY SURVEY EXHIBIT
COLLIER COUNTY PARKS AND RECREATION LANDS

SHEET NUMBER C1.0B

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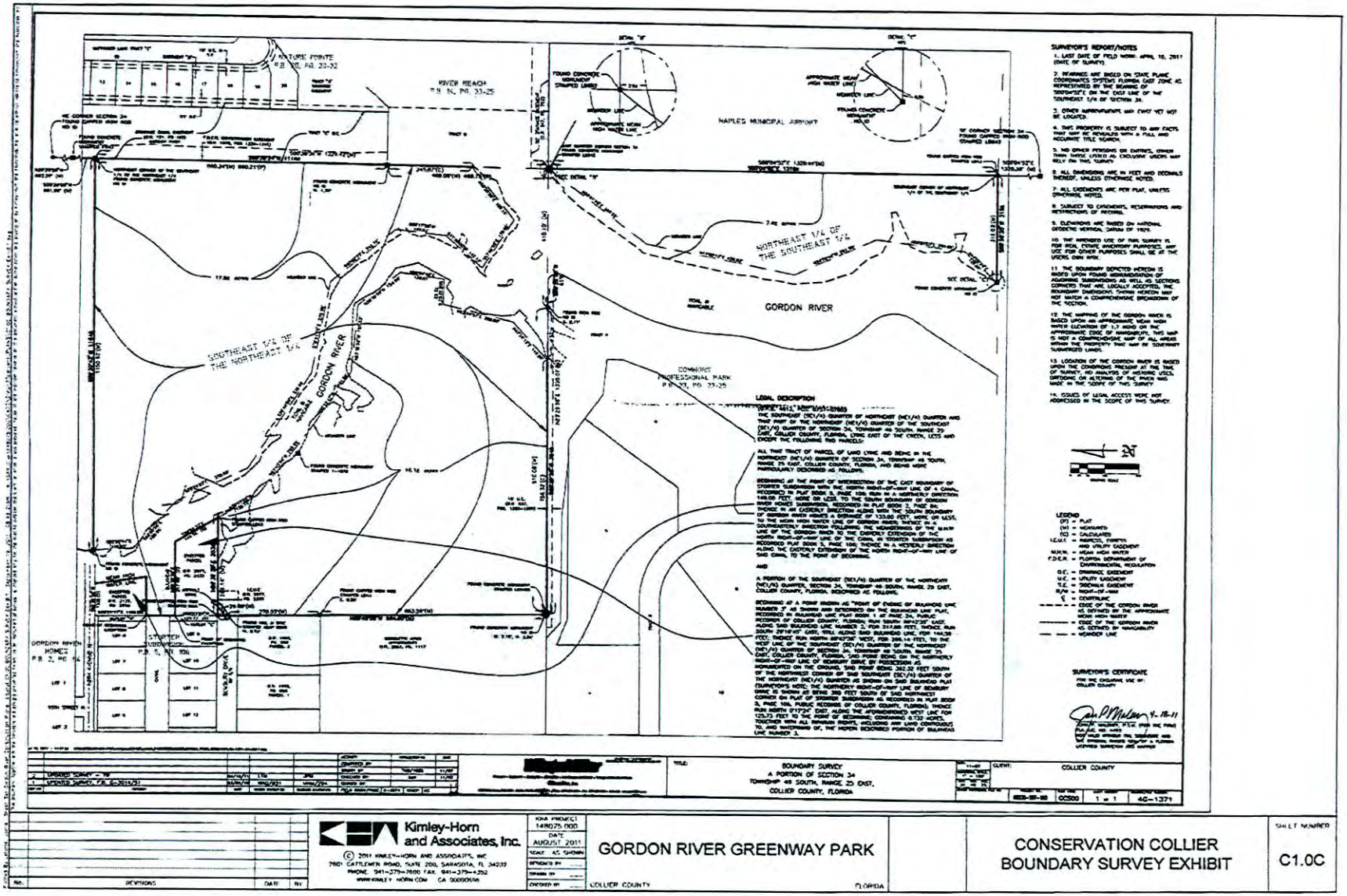

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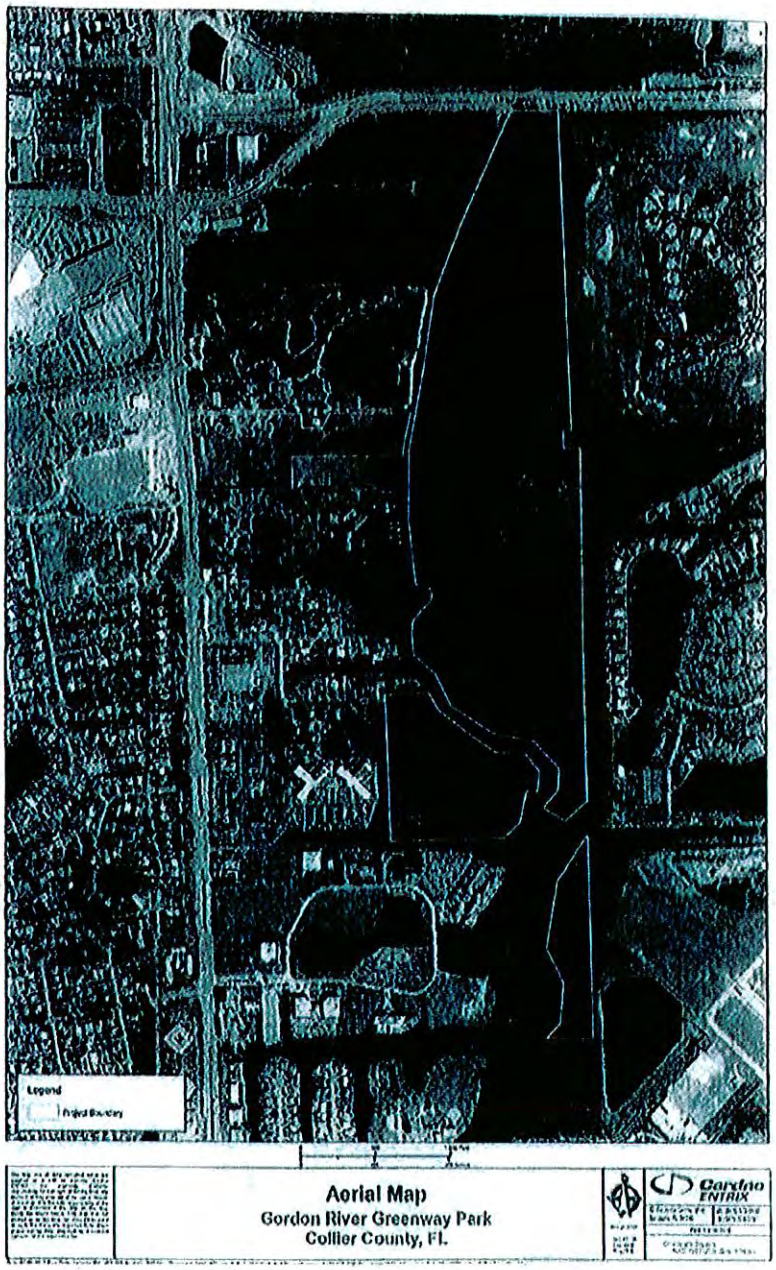

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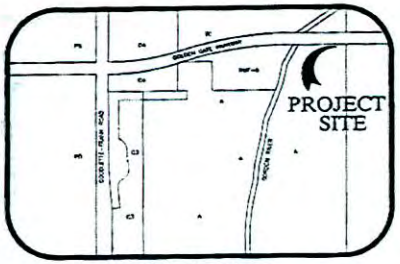
Gordon River Greenway Park North Access

CNSTR Plans

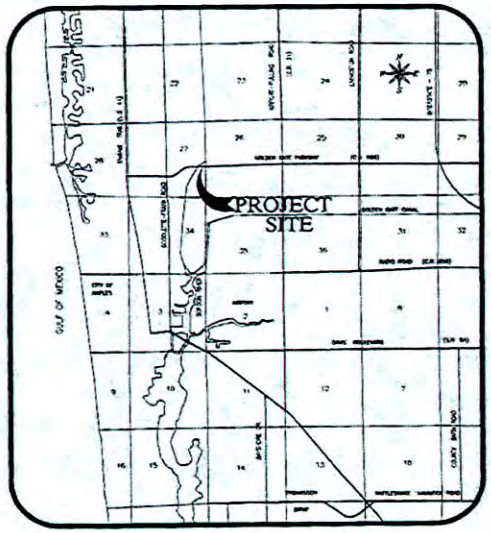
Located in Collier County
Section 27, Township 49 South, Range 25 East

Collier County Parks
& Recreation Dept.
15000 Livingston Road
Naples, FL 34109
Tel. (239) 254-4000

ORDINANCE: NA
COLLIER COUNTY ZONING: A
COLLIER COUNTY FOLIO NUMBER: 61947800001



Vicinity Map
N.T.S.



Location Map
N.T.S.

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Dwg. No.	Description
1.	COVER SHEET AND INDEX OF DRAWINGS
2.	AERIAL SITE PLAN
3.	OVERALL SITE PLAN AND GENERAL NOTES
4.	DRIVEWAY PLAN
5.	TURN LANE PLAN
6.	SECTIONS & DETAILS
7.	EROSION CONTROL PLAN

PRINTED
SEP 14 2011

Revisions

Revision	Date	Description	By
1	9/11	PER UTILITY COMPANY COMMENTS, 9/11	MB
2	7/11	PER SFWMD, COLLIER COUNTY & CITY OF NAPLES COMMENTS, 1st SUBMIT	MB

APPLICATION NUMBER 110617-17A

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Prepared by:

GradyMinor
Civil Engineers • Land Surveyors • Planners • Landscape Architects
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Fort Myers 239.690.4280
North Port 941.429.5858
Naples 239.444.2897
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DATE: March 2011
FILE NAME: CO705-SITE.DWG
JOB CODE: CO705
SHEET NUMBER 1 OF 8

Gordon River Greenway Park North Access
CNSTR Plans

GradyMinor
BONITA SPRINGS OFFICE

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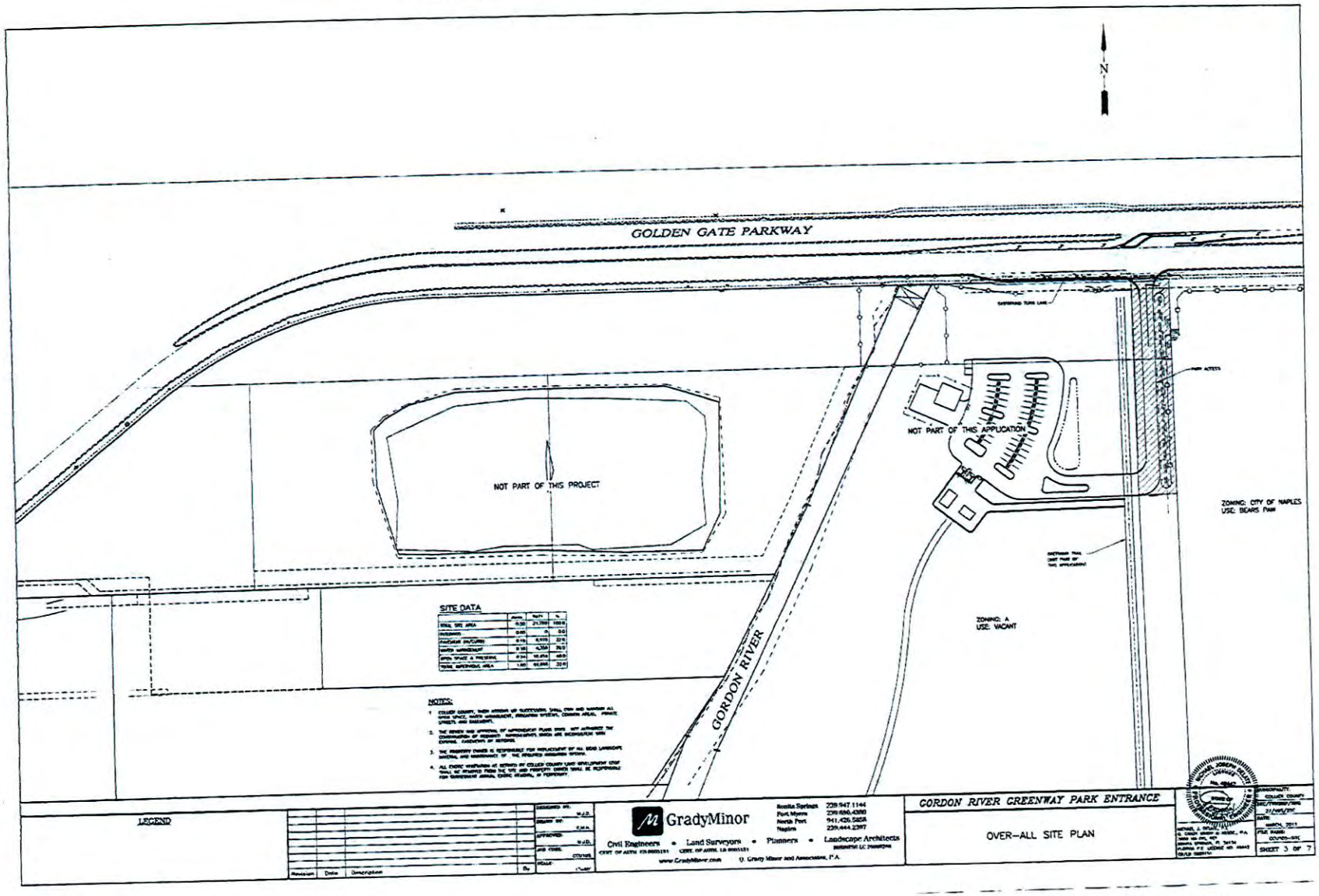

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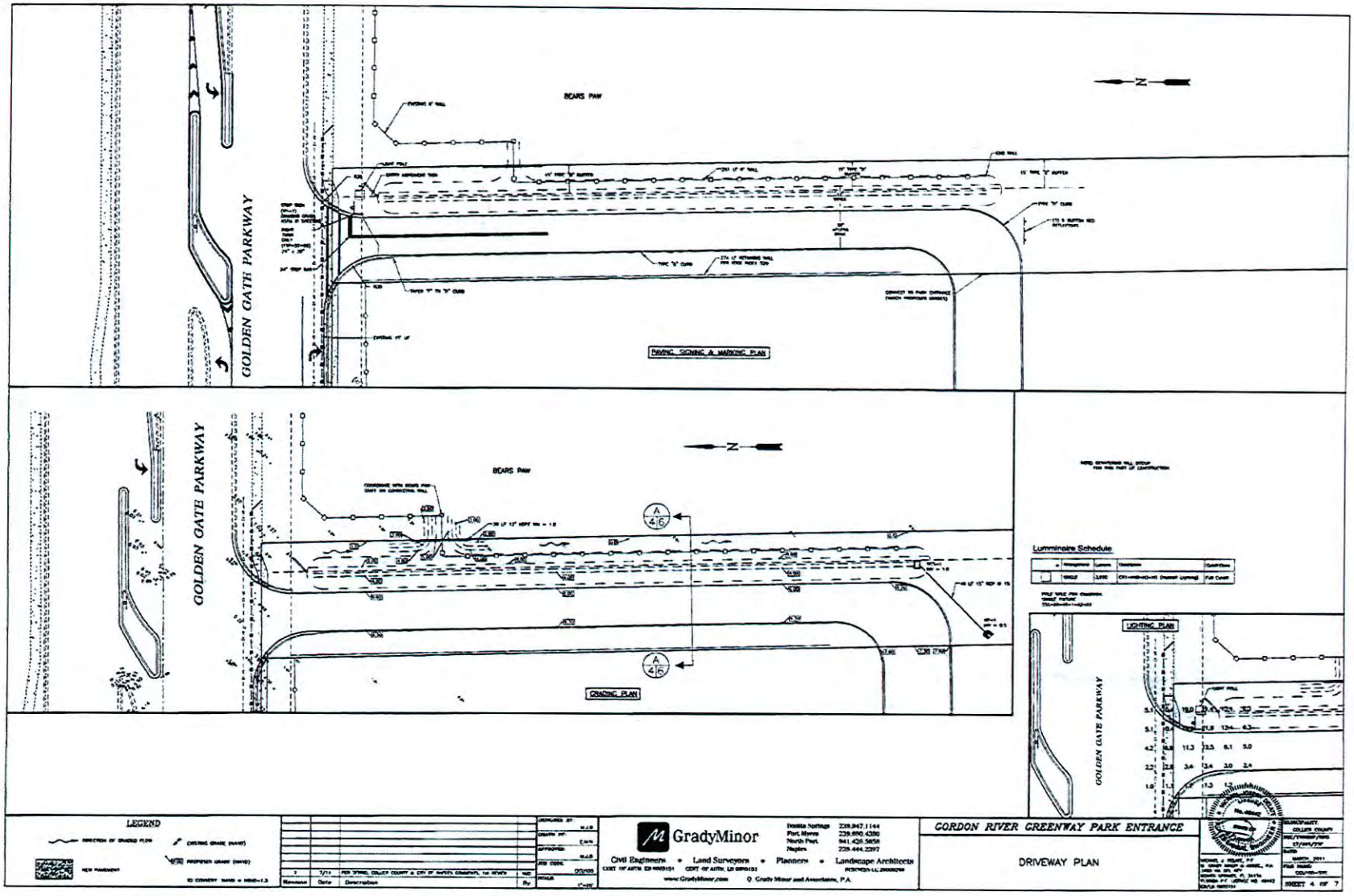

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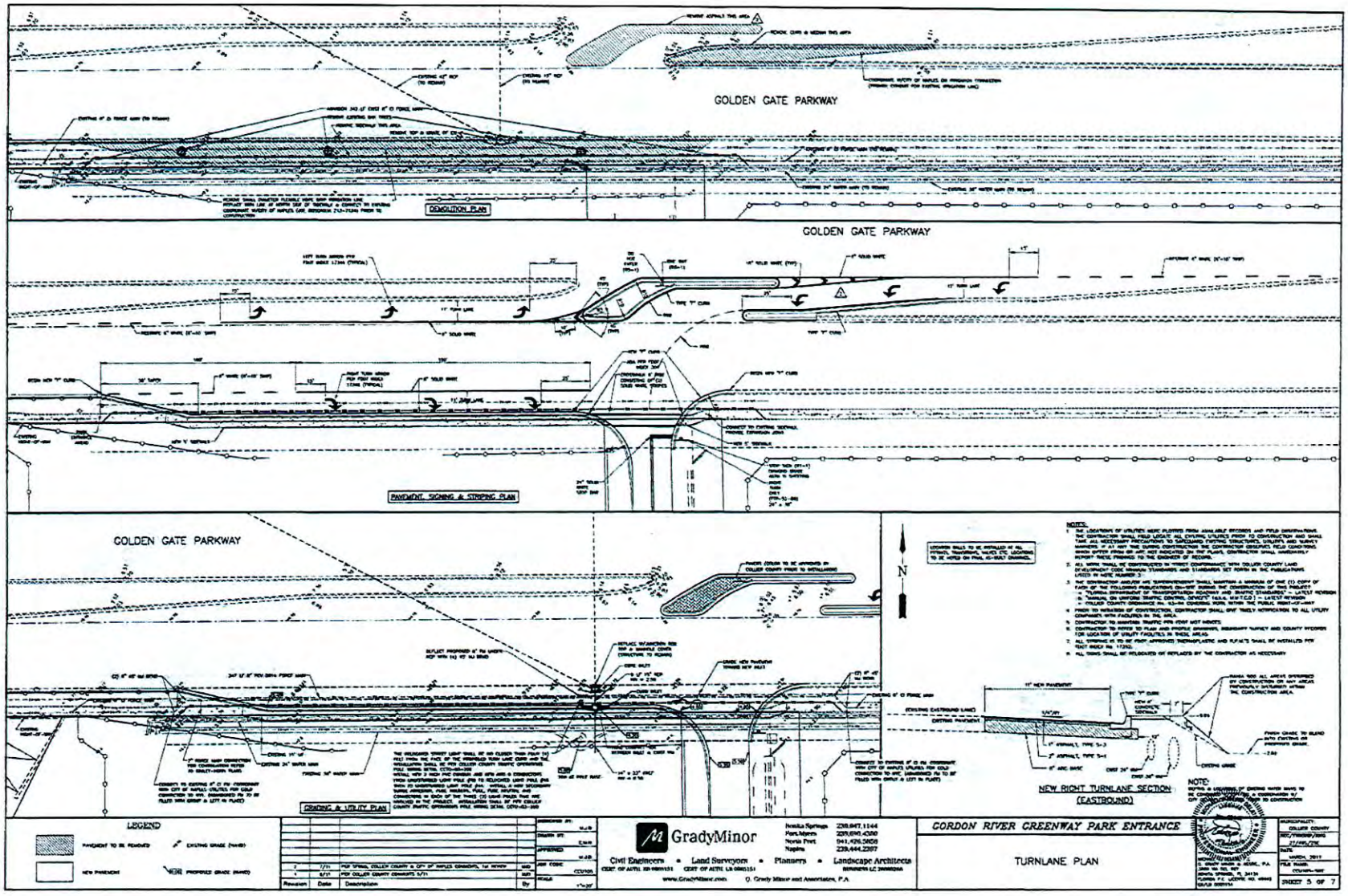

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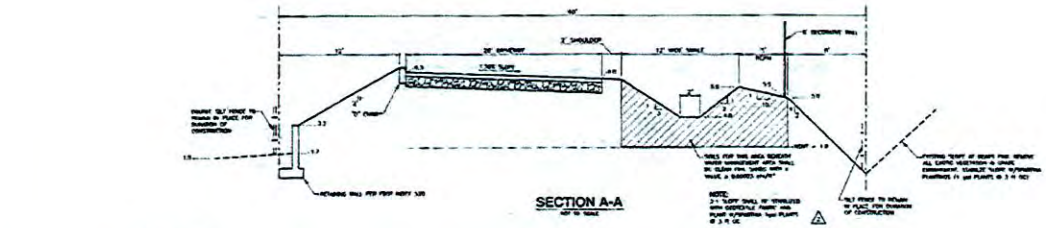
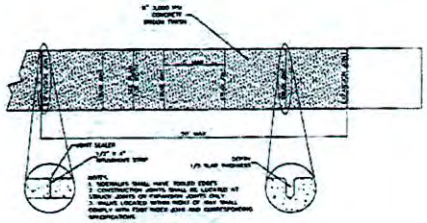
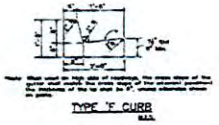


SECTION A-A



SIDEWALK DETAIL



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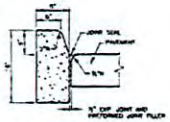

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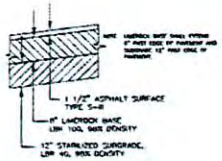
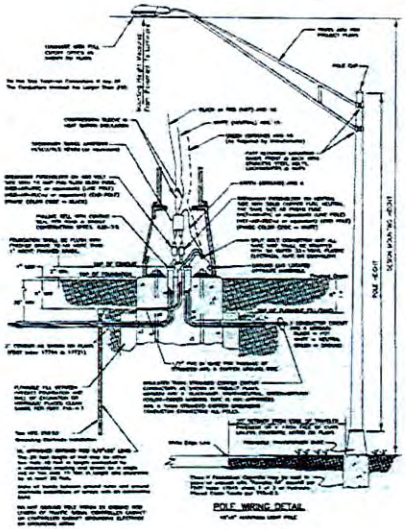
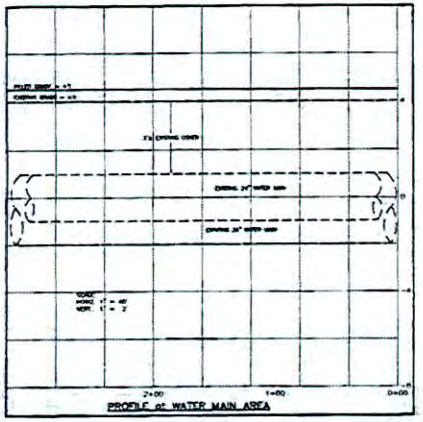


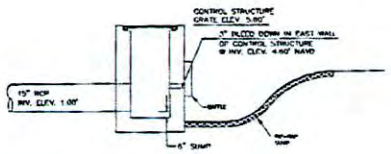
PAVEMENT SECTION



POLE WIRING DETAIL



PROFILE at WATER MAIN AREA



WATER CONTROL STRUCTURE DETAIL/SECTION
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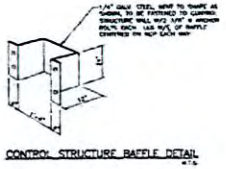

CONTROL STRUCTURE BAFFLE DETAIL

LEGEND

Revision	Date	Description	By
2	7/11	PER SFWMD, COLLIER COUNTY & CITY OF NAPLES COMMENTS, 1st SFWMD	MJB
1	5/11	PER COLLIER COUNTY COMMENTS, 1/11	MJB

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GORDON RIVER GREENWAY PARK ENTRANCE

SECTIONS & DETAILS

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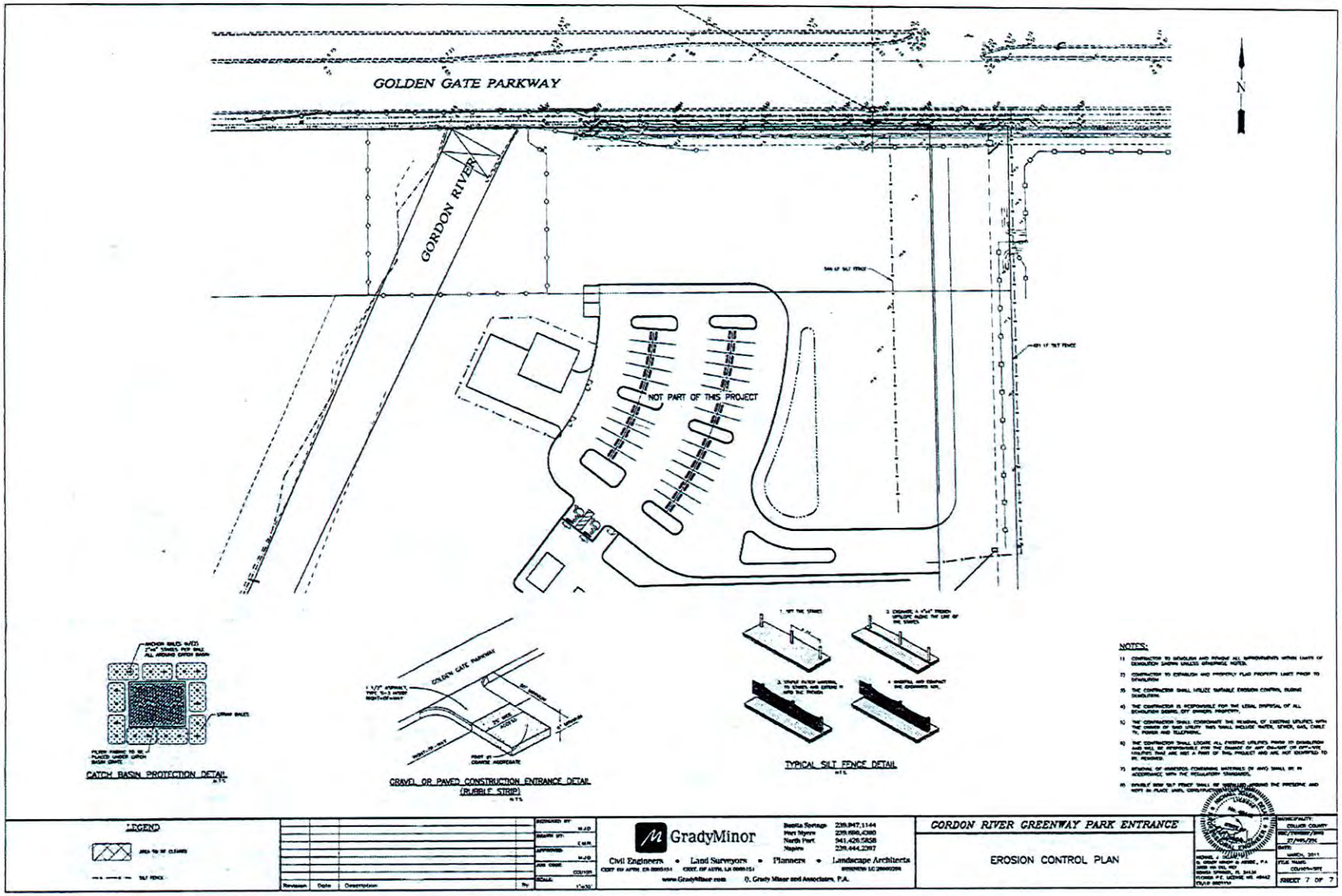

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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
11. ANY WELLS IF DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
12. ANY WELL IF DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS AN ALTERNATE STABILIZATION METHOD IS INDICATED ON THE PLANS.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED, SEEDED OR OTHERWISE STABILIZED AS SPECIFIED IN THE PLANS. SODDED OR SEEDED AREAS SHALL BE FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) 1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORMWATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

WATER AND SEWER UTILITY NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY OF PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS, WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

EROSION CONTROL NOTES (CONT.)

13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE STORMWATER MANAGEMENT POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS.
17. ONSITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
19. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 15 CUBIC YARDS / ACRE.
7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDITIONAL TIME AND ...

CALL 2 WORKING DAYS BEFORE YOU DIG

811

IT'S THE LAW DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

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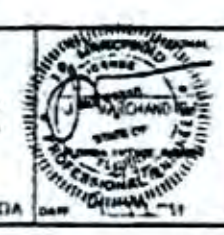
KHA PROJECT 148075000
DATE AUGUST 2011
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

GORDON RIVER GREENWAY PARK

COLLIER COUNTY FLORIDA



GENERAL NOTES

SHEET NUMBER C1.0D

Exhibit 2.0A
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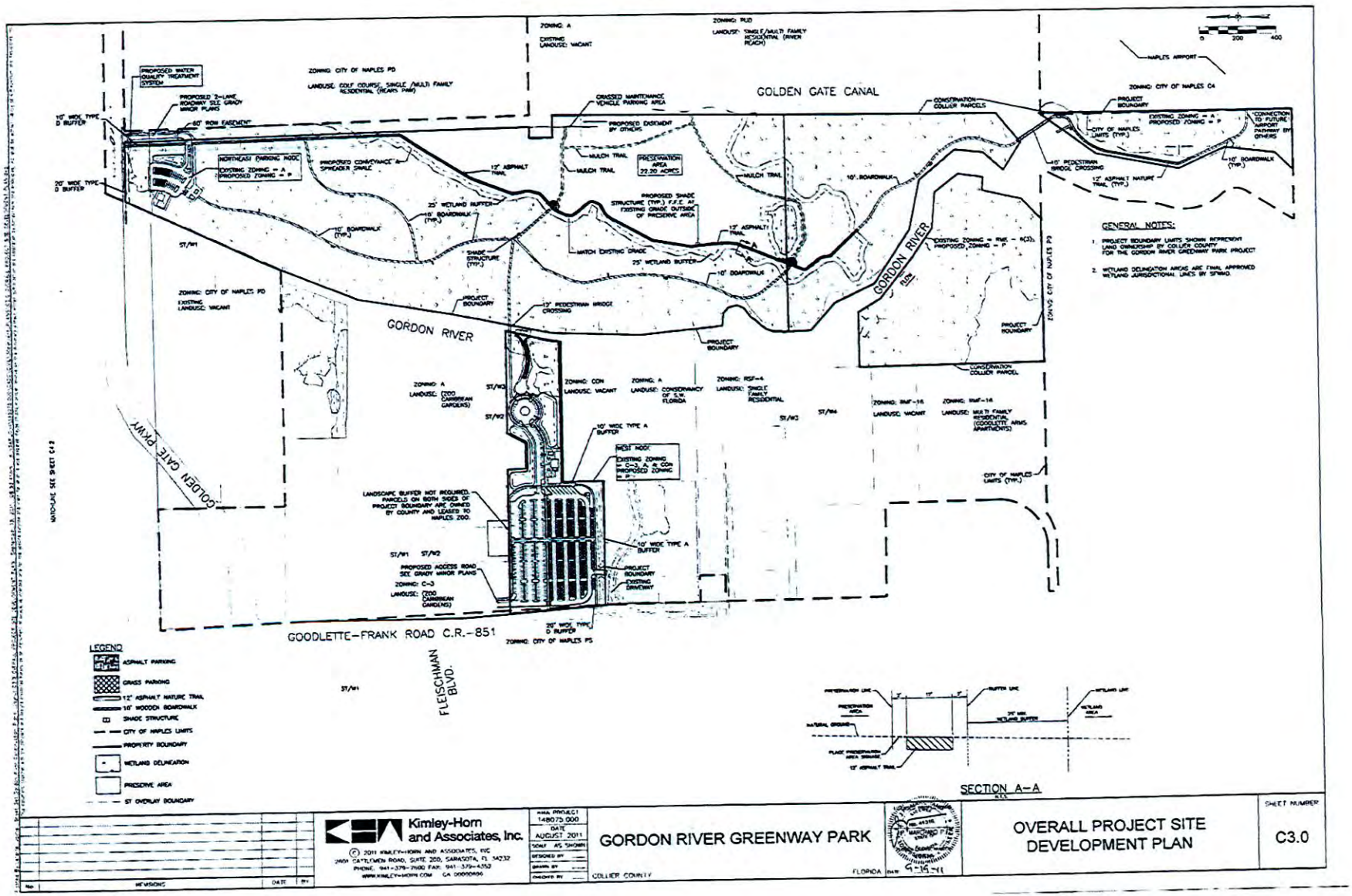

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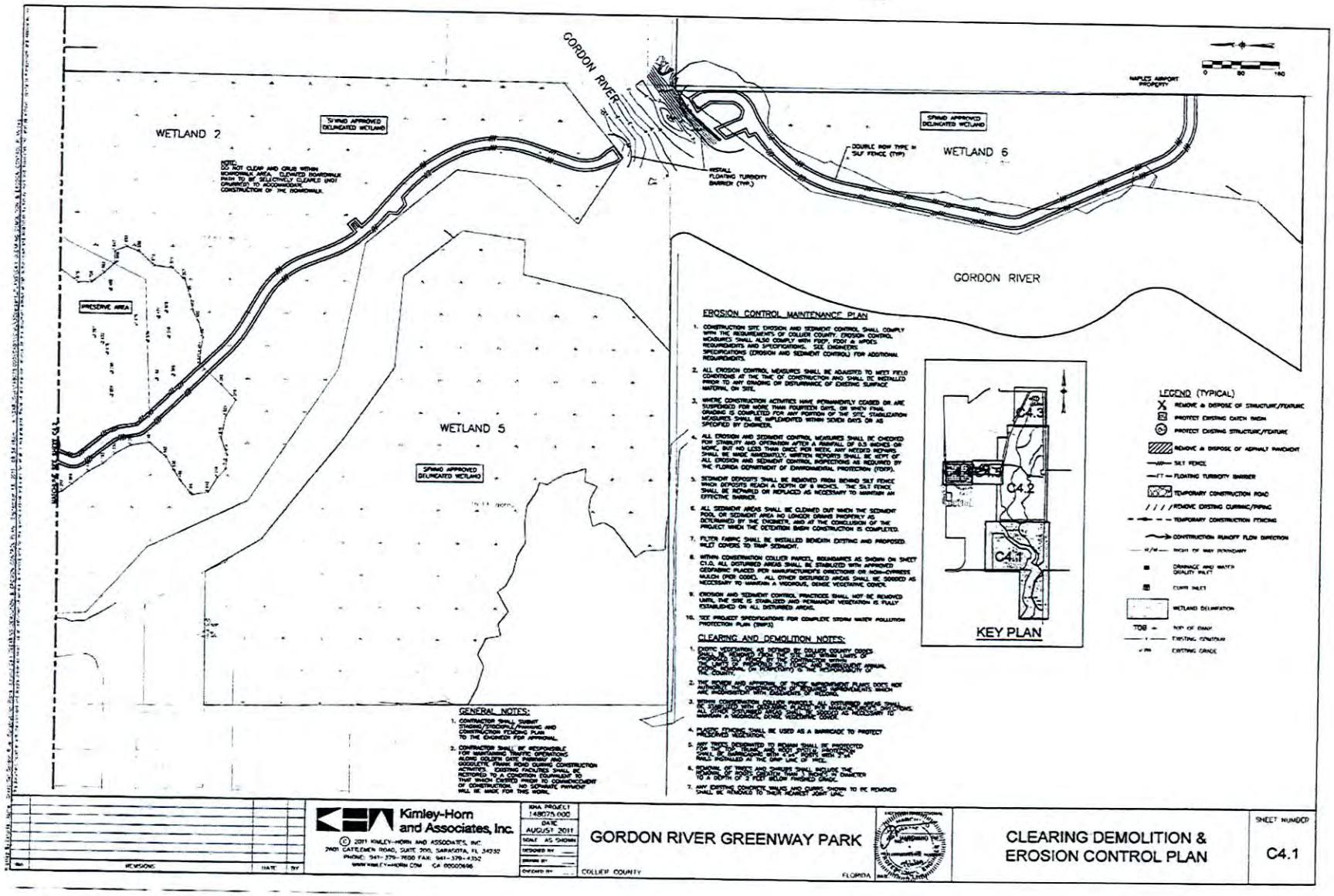

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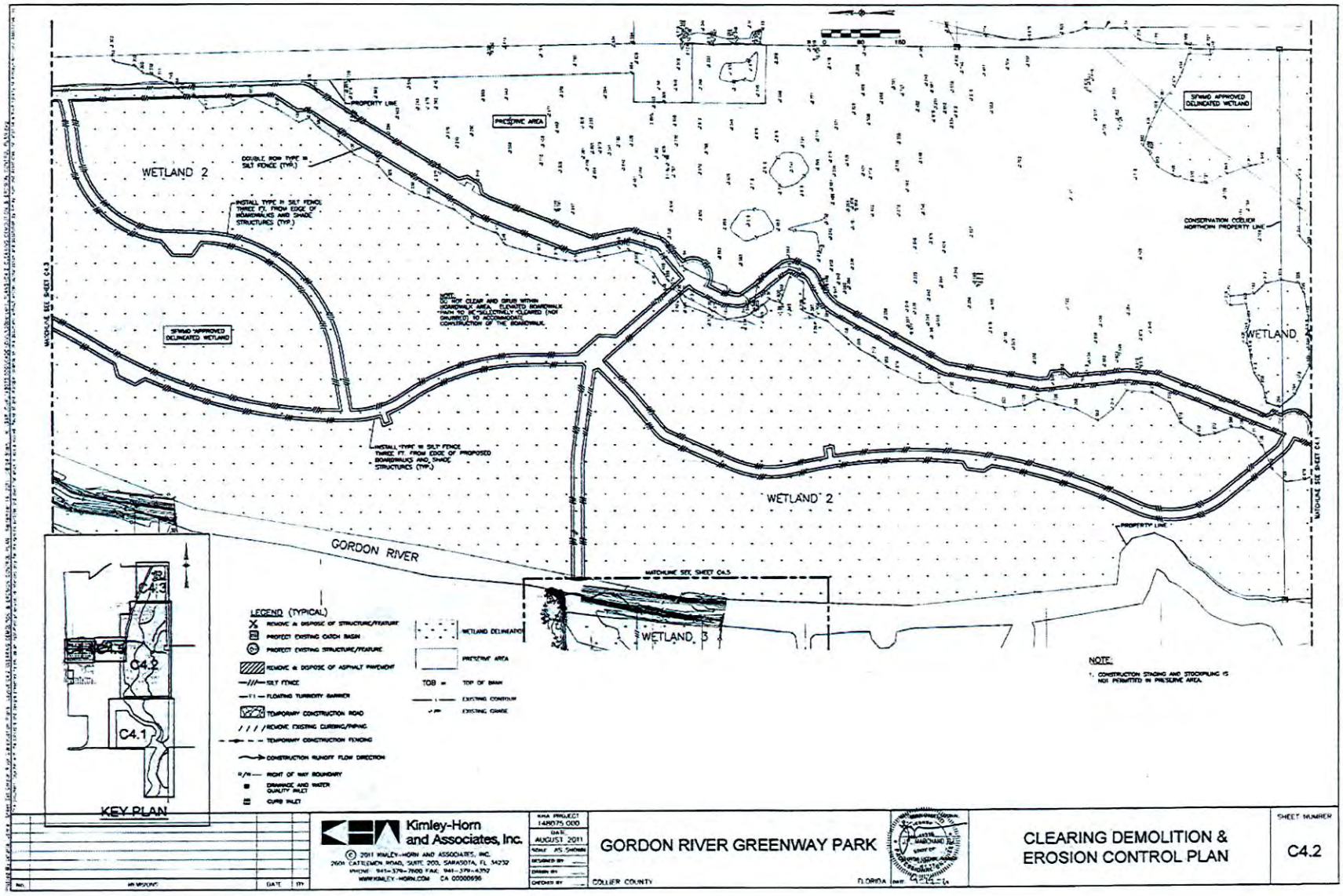

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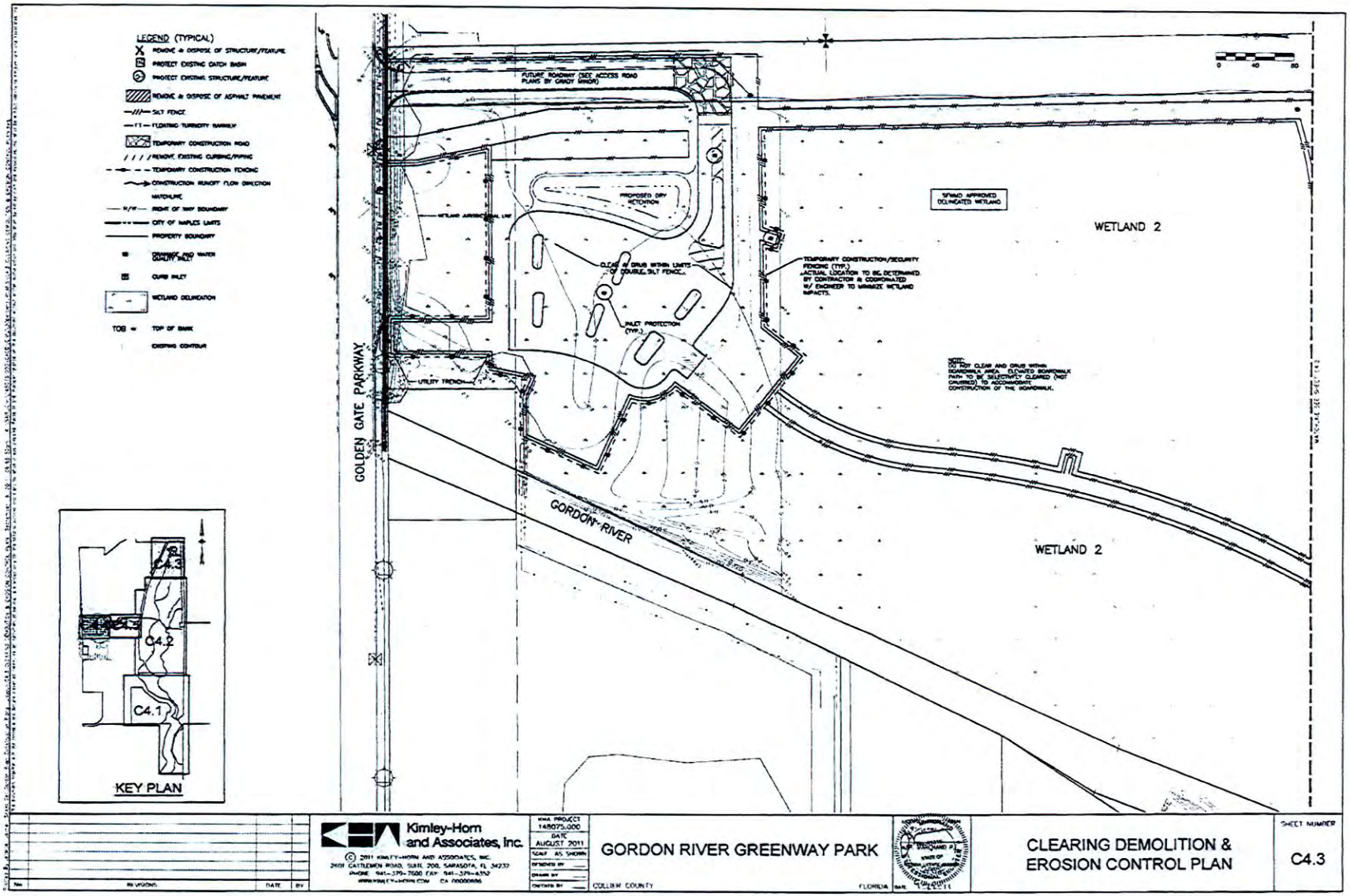

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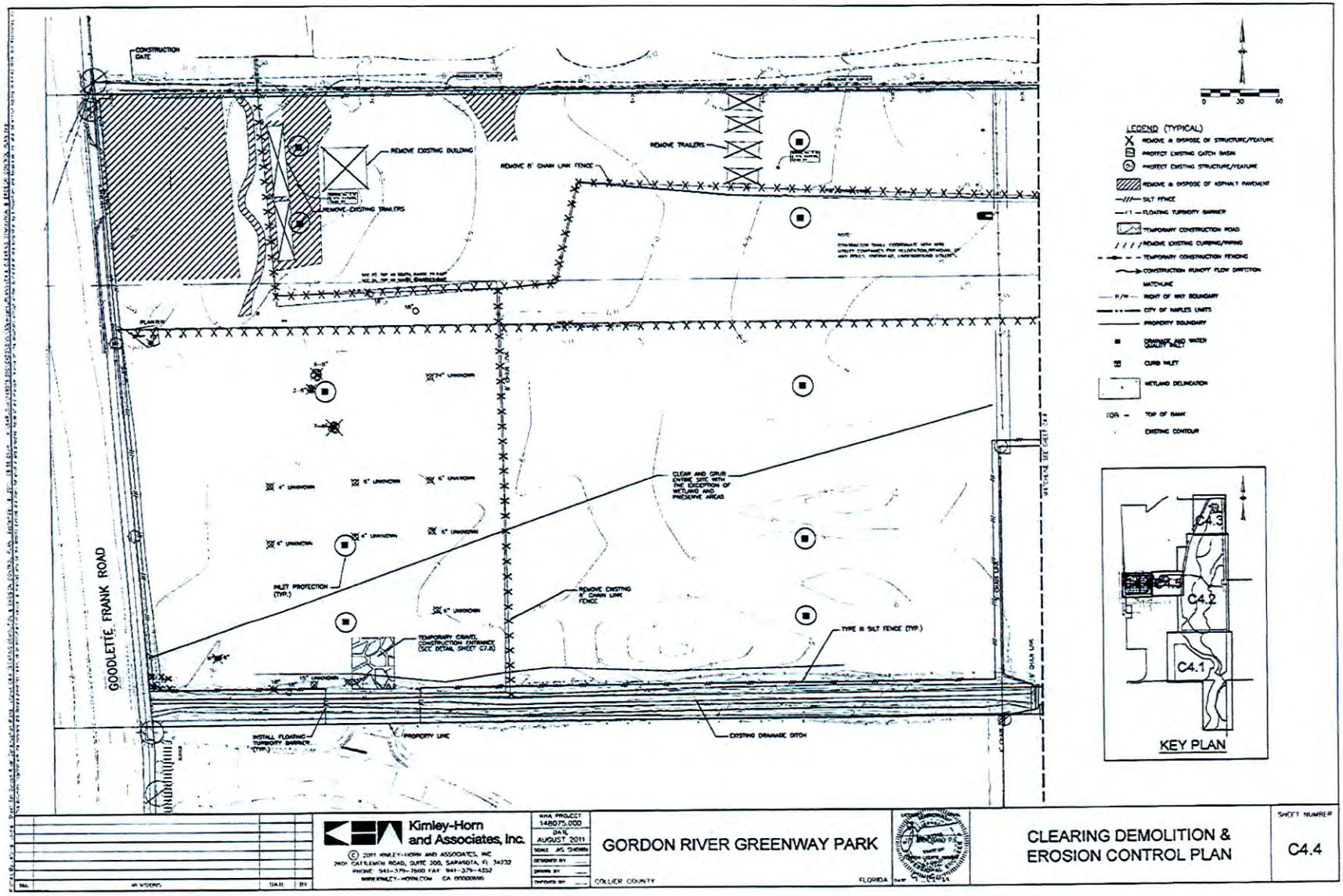

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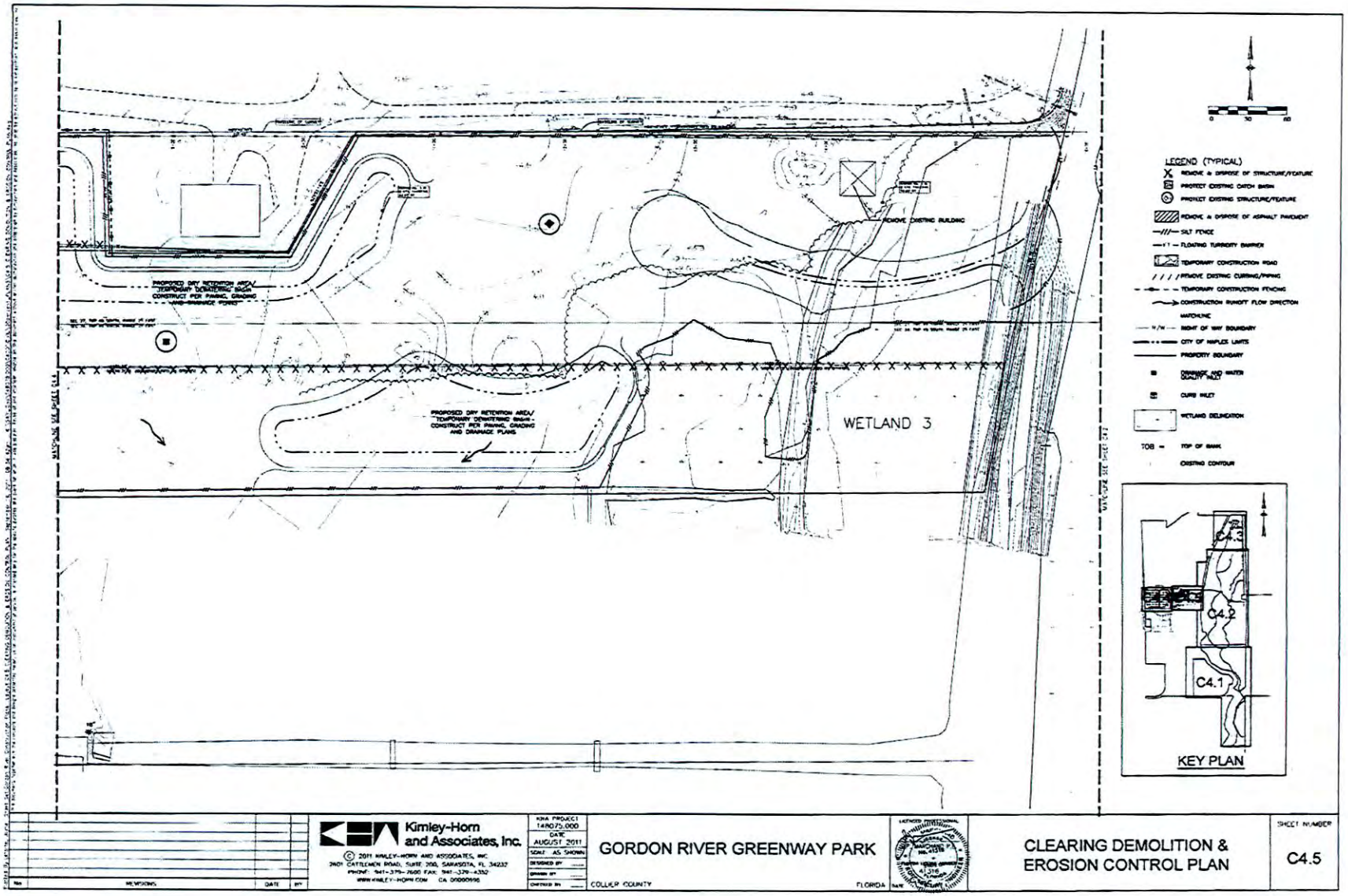

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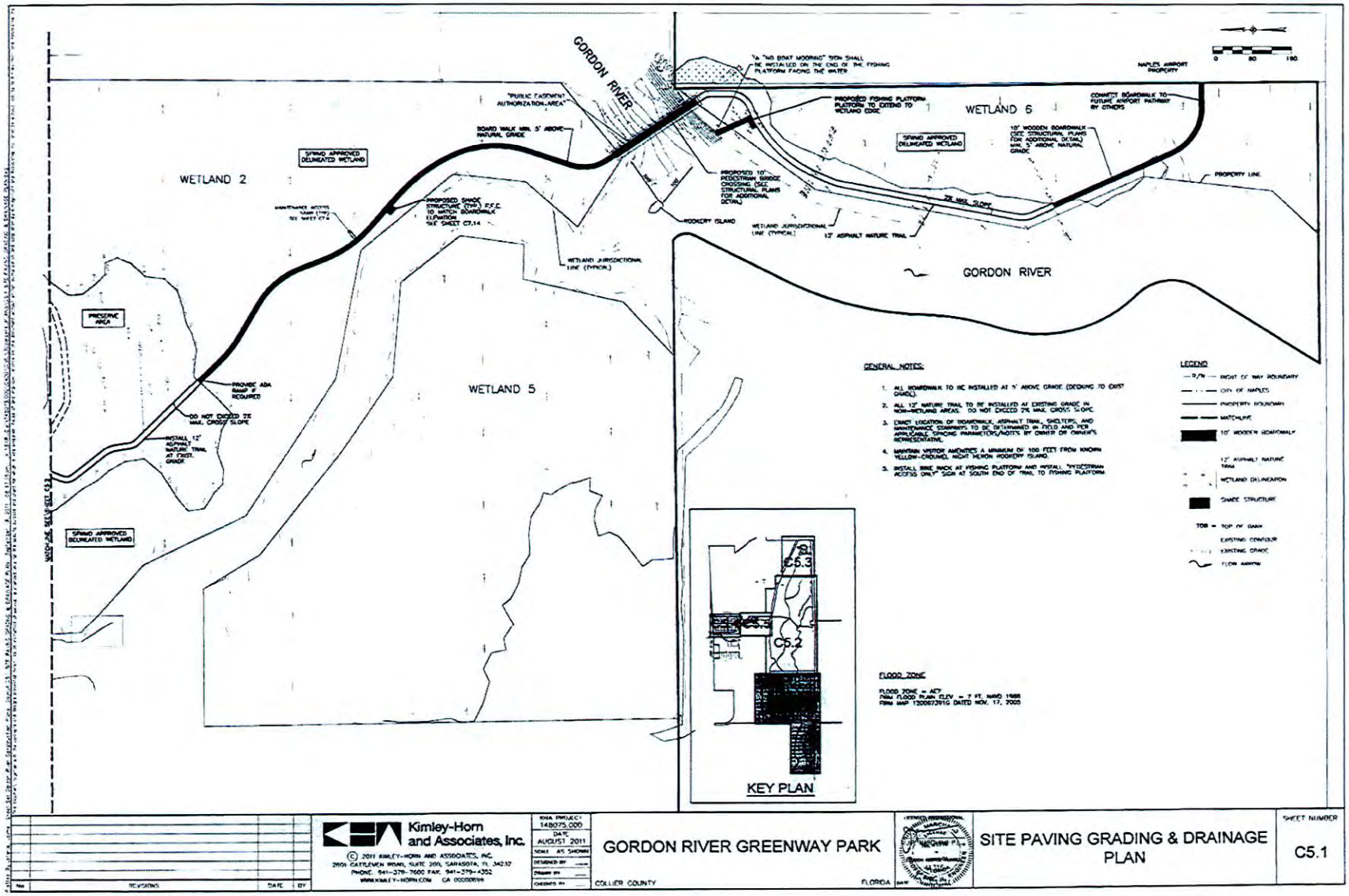

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KHA PROJECT 148075.000
DATE AUGUST 2011
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

GORDON RIVER GREENWAY PARK

COLLIER COUNTY FLORIDA

SITE PAVING GRADING & DRAINAGE PLAN

SHEET NUMBER C5.1

No	REVISIONS	DATE	BY

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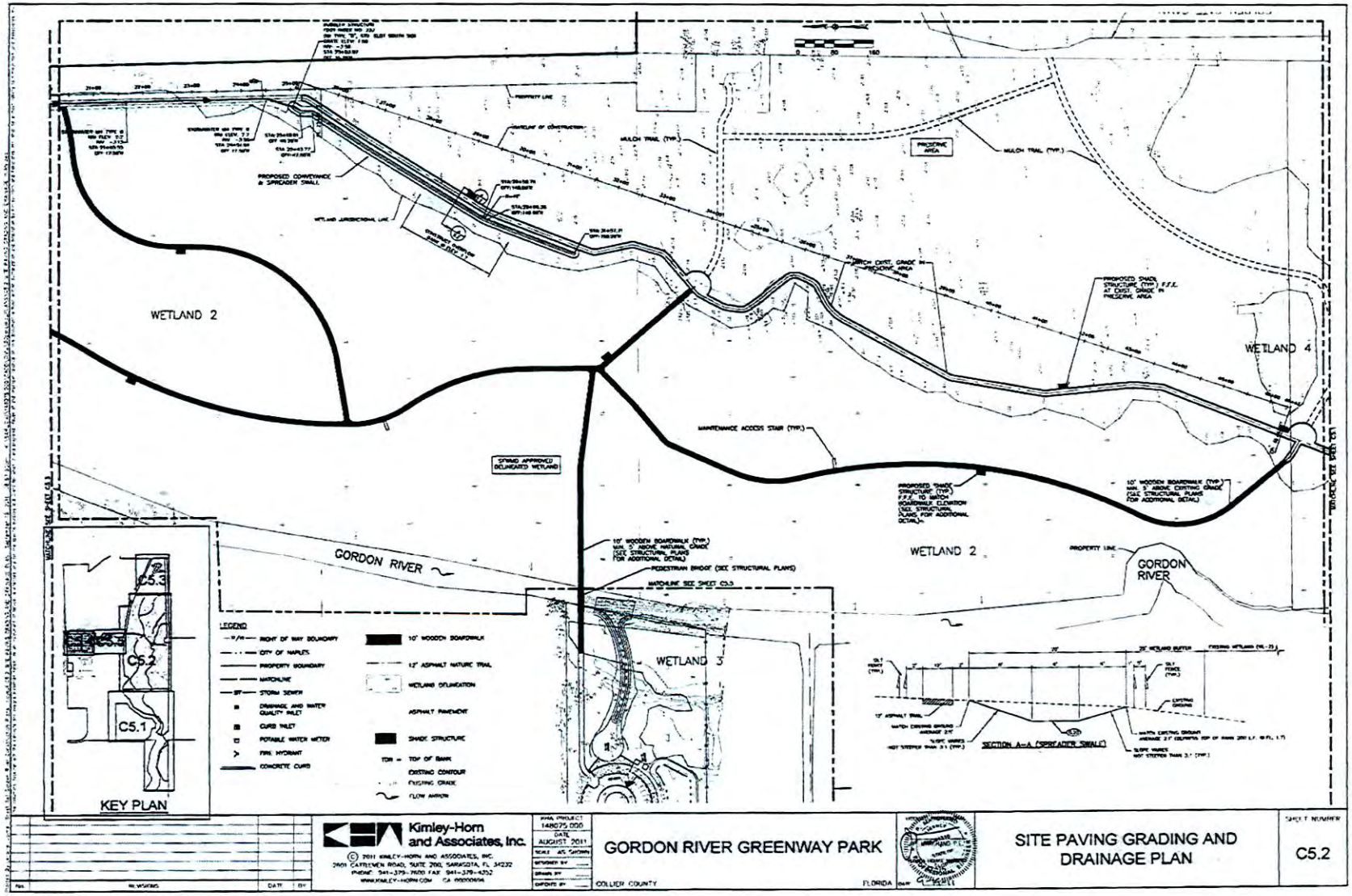

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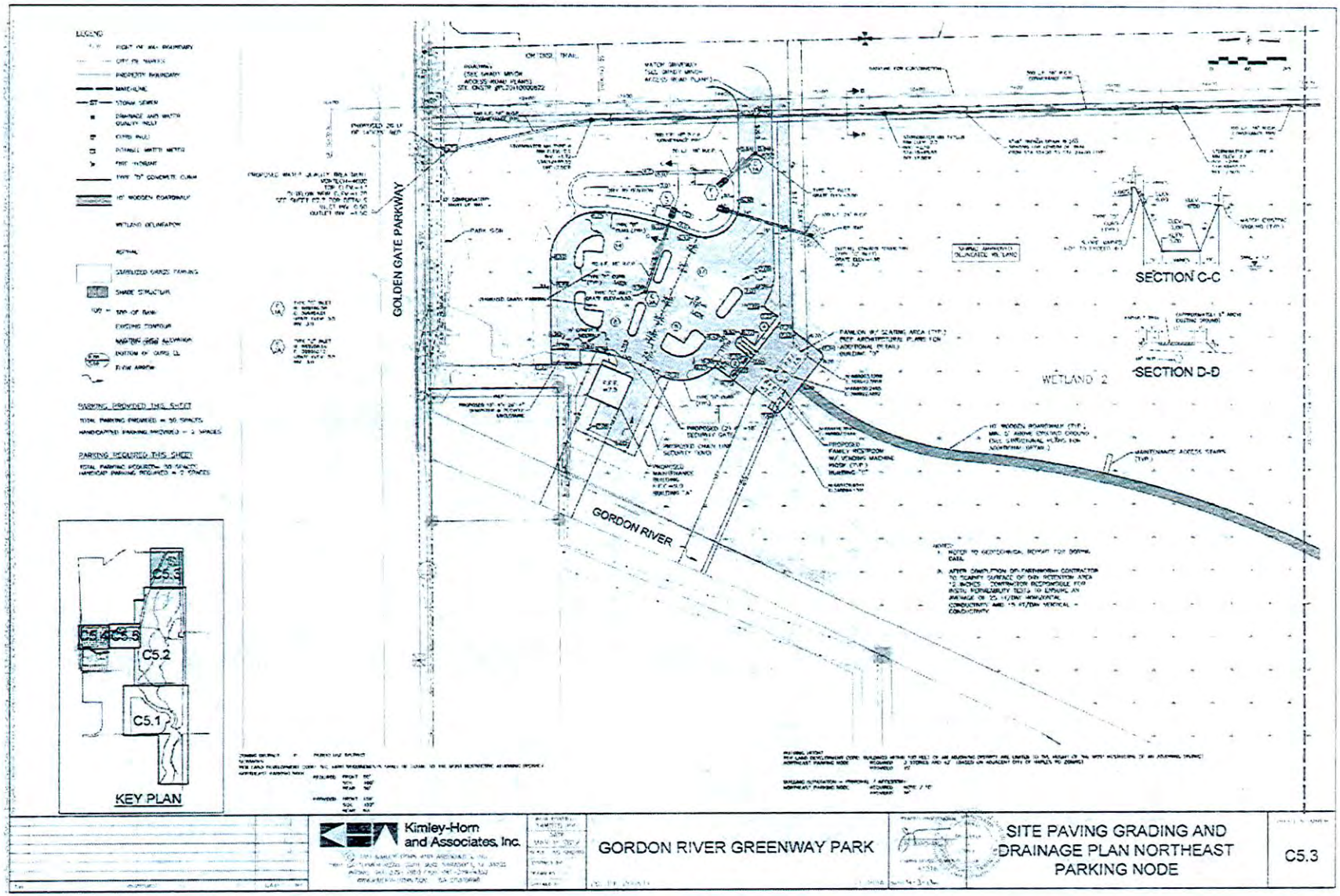

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GORDON RIVER GREENWAY PARK

SITE PAVING GRADING AND DRAINAGE PLAN NORTHEAST PARKING NODE

C5.3

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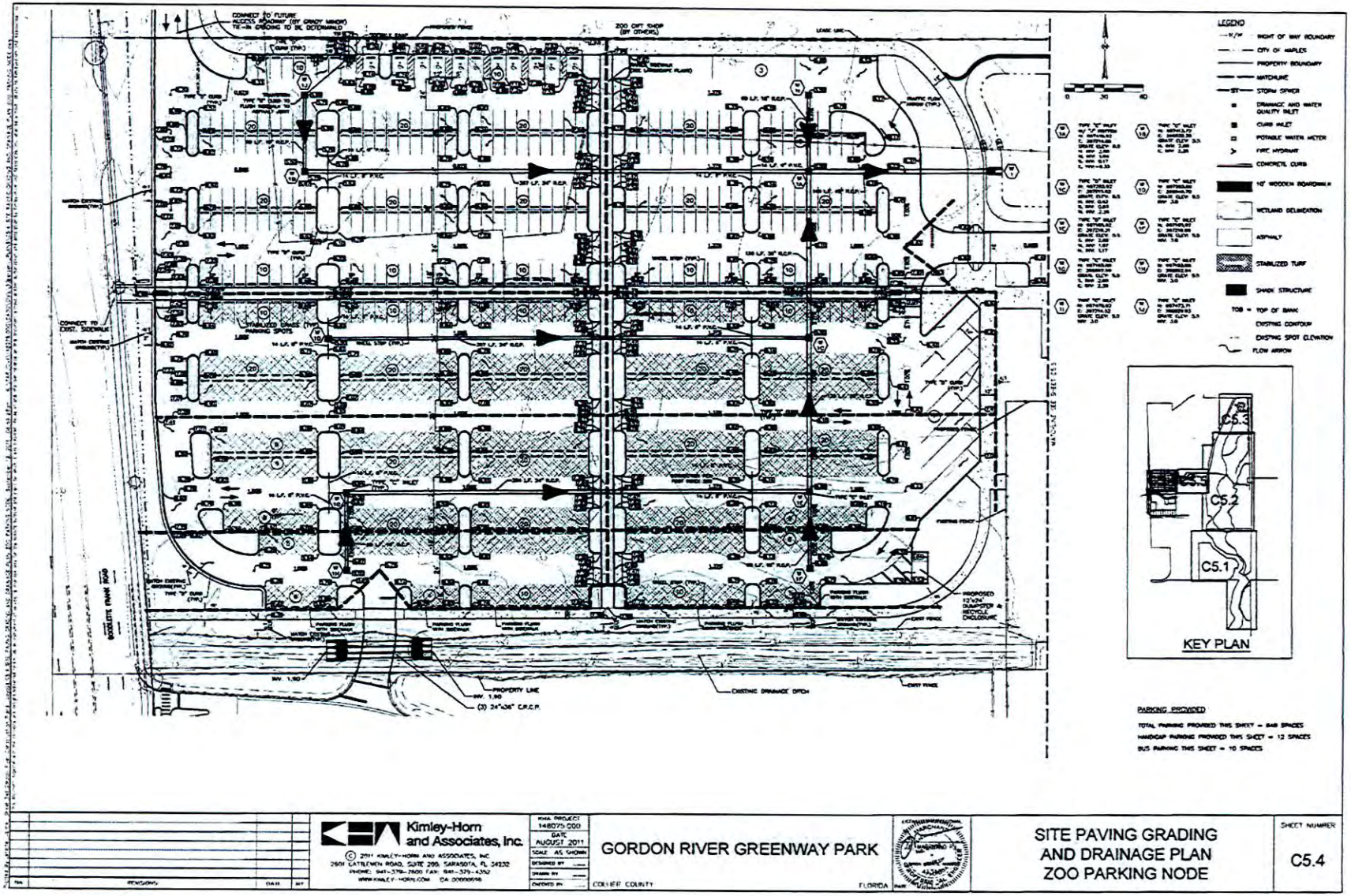

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GORDON RIVER GREENWAY PARK

COLLIER COUNTY FLORIDA

SITE PAVING GRADING AND DRAINAGE PLAN ZOO PARKING NODE

SHEET NUMBER C5.4

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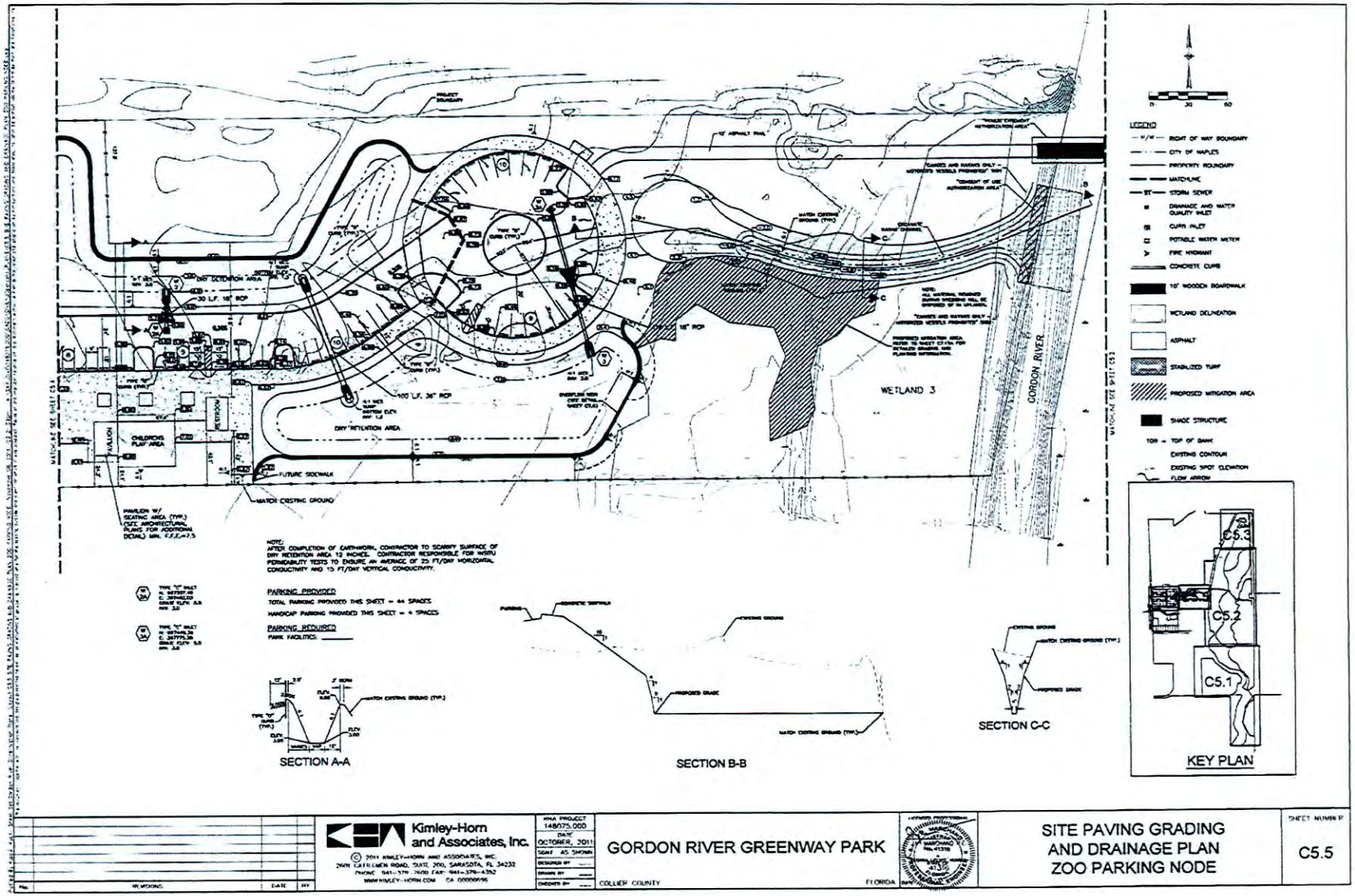

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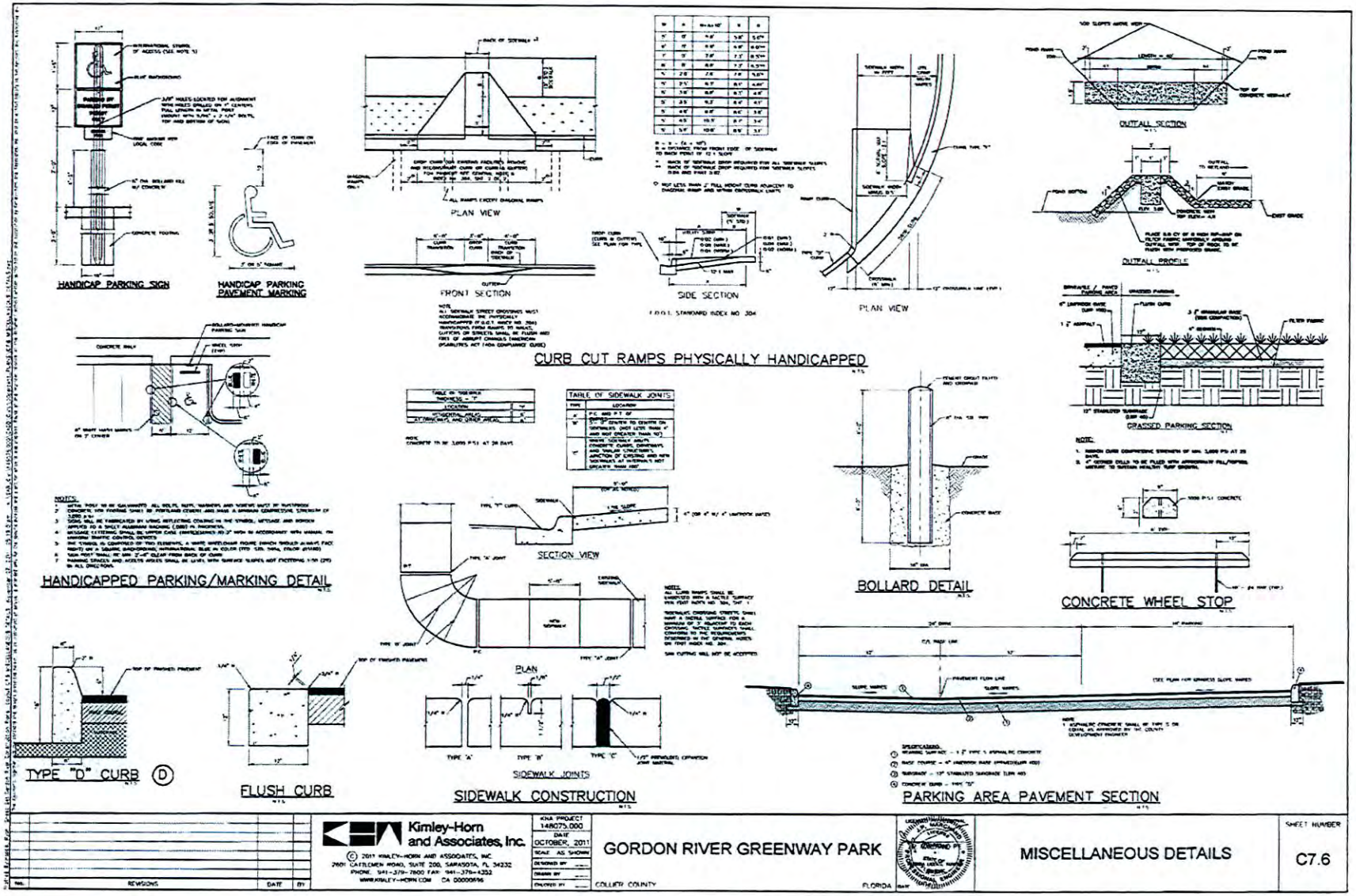

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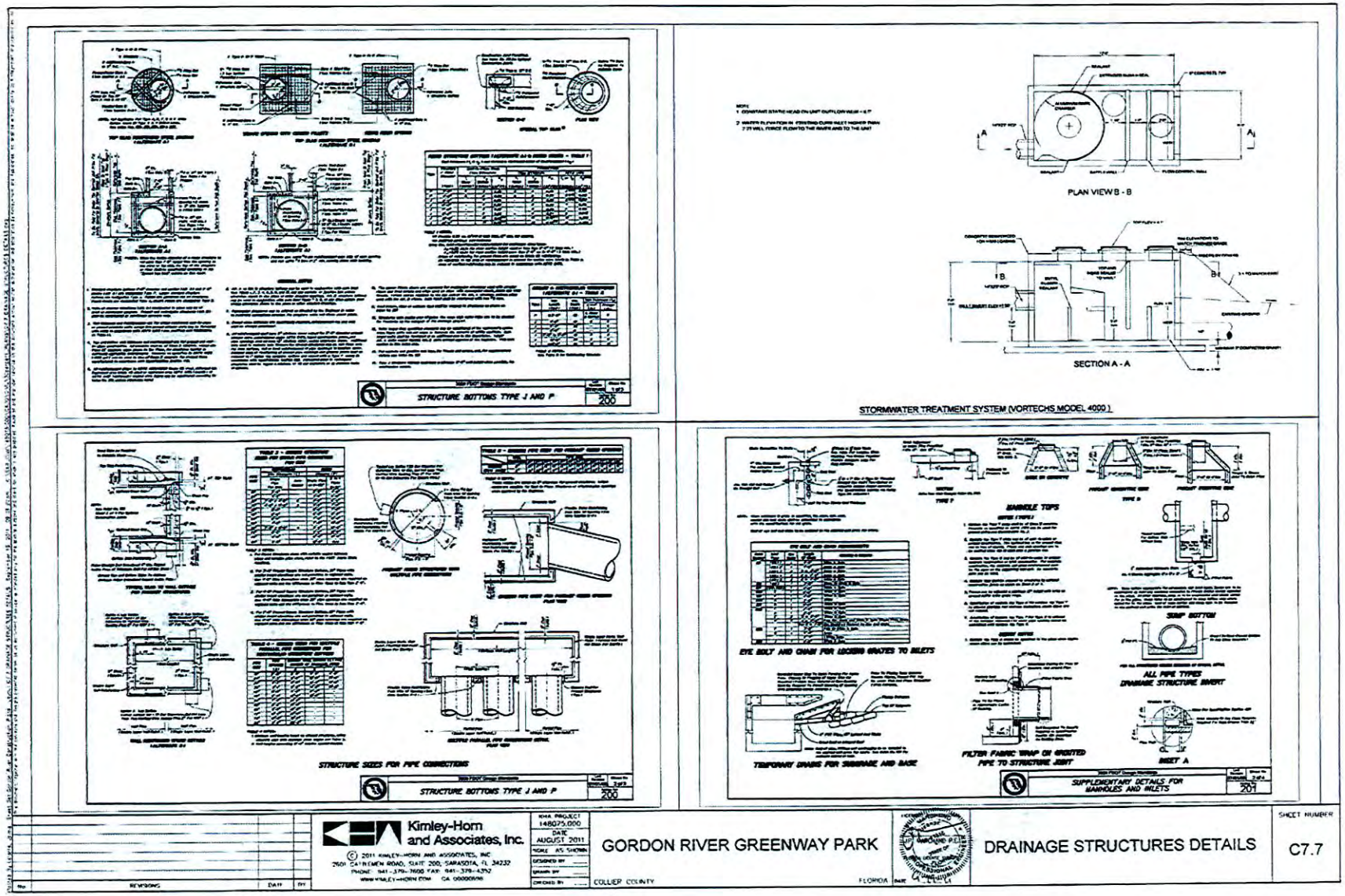

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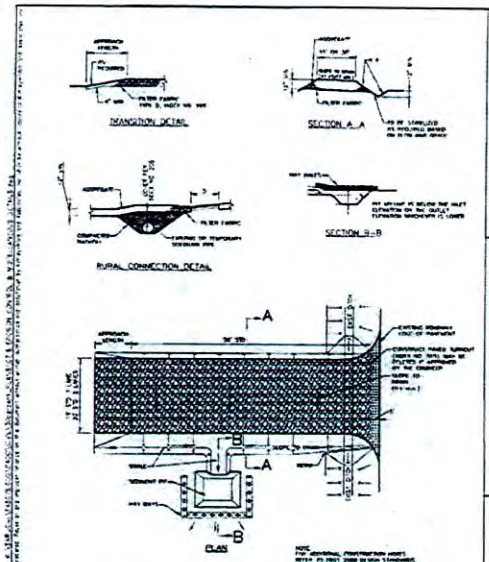
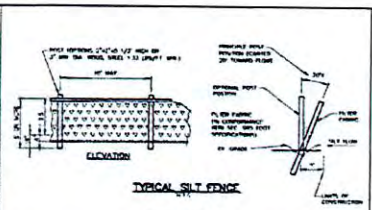


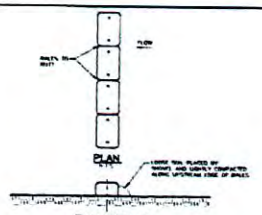
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

FIGURE 1



TYPICAL SILT FENCE

FIGURE 2



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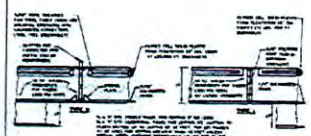


FLOATING TURBIDITY BARRIERS

FIGURE 4



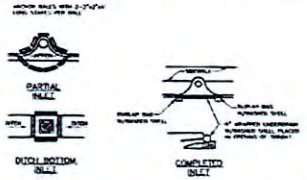
TYPICAL SWALE SECTION

FIGURE 5



TYPICAL RETENTION/DETENTION POND SECTION

FIGURE 6



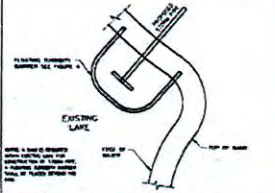
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

FIGURE 7



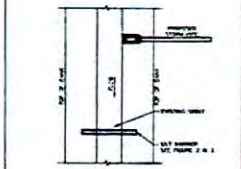
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

FIGURE 8



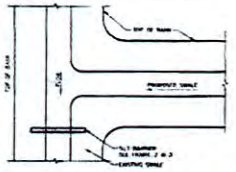
FLOATING TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE

FIGURE 9



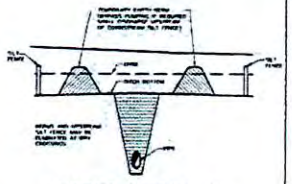
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE

FIGURE 10



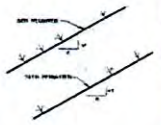
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE

FIGURE 11



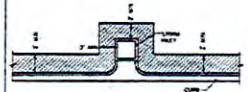
UNDERGROUND PIPE CROSSING

FIGURE 12



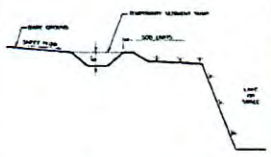
GRASS SLOPES

FIGURE 13



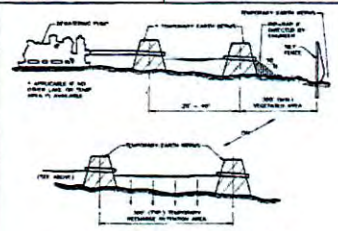
SOD ALONG CURB AND AROUND INLET

FIGURE 14



TEMPORARY SEDIMENT SUMP

FIGURE 15



TYPICAL DEWATERING DISCHARGE PLAN

FIGURE 16

REVISIONS	DATE	BY

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KHA PROJECT	148075.000
DATE	AUGUST, 2011
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

GORDON RIVER GREENWAY PARK

COLLIER COUNTY FLORIDA

EROSION CONTROL & MISCELLANEOUS DETAILS

SHEET NUMBER C7.8

Exhibit 2.0A
Application No. 110617-17
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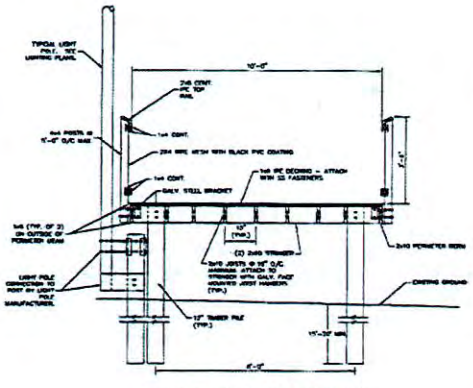
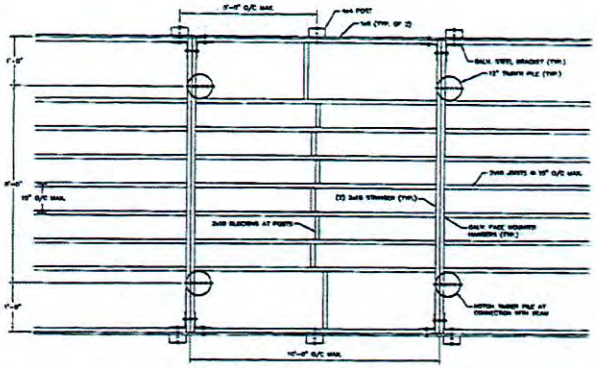
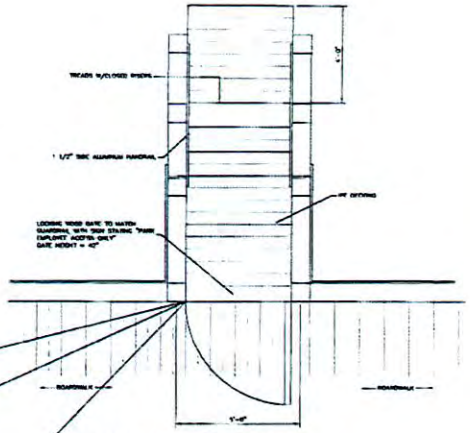


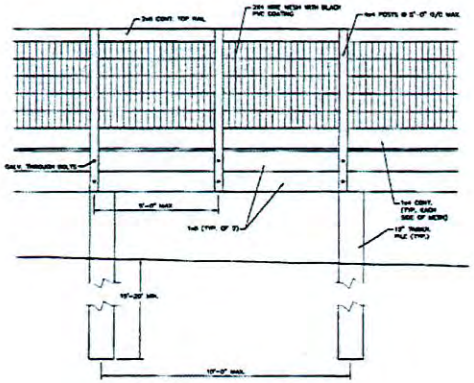
TYPICAL BOARDWALK SECTION



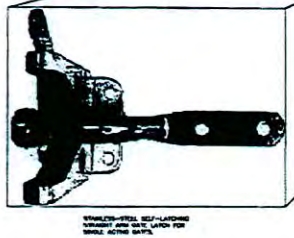
TYPICAL PLAN OF BOARDWALK FRAMING



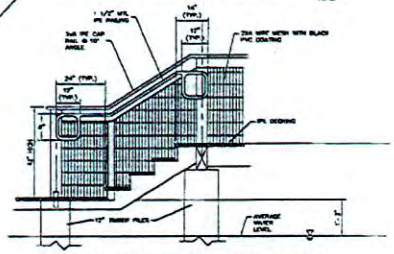
WETLAND MAINTENANCE STAIR PLAN



TYPICAL BOARDWALK ELEVATION



NOTE:
EXPOSED PILES SHALL BE WRAPPED WITH PVC WRAPPING OR SIMILAR BELOW AN ELEVATION OF 1.5.



WETLAND MAINTENANCE STAIR SECTION

	Kimley-Horn and Associates, Inc.	KHA PROJECT 148075.000	GORDON RIVER GREENWAY PARK		TYPICAL BOARDWALK DETAILS	SHEET NUMBER C7.9
		DATE AUGUST 2011				
		SCALE AS SHOWN				
		DESIGNED BY ---				
		DRAWN BY ---				
		CHECKED BY ---	COLLIER COUNTY	FLORIDA		

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Exhibit 2.0A
Application No. 110617-17
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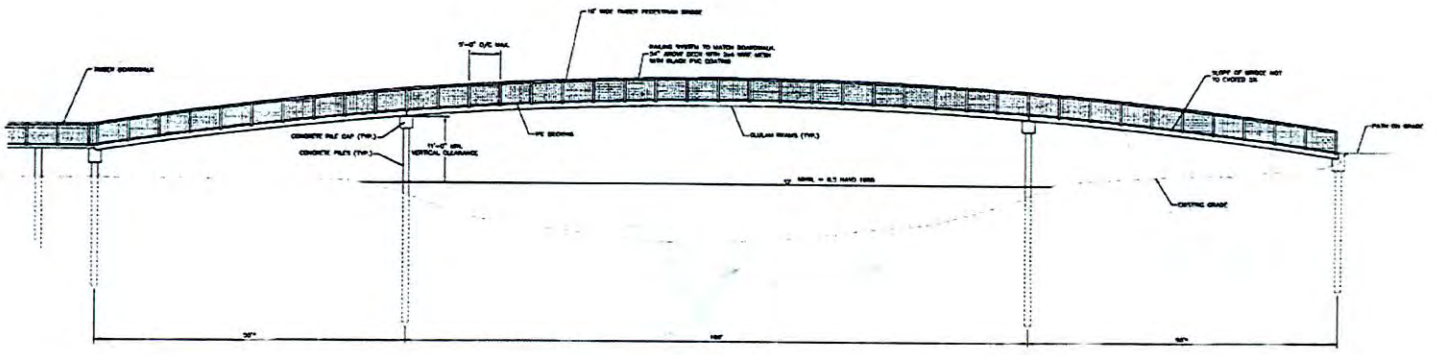
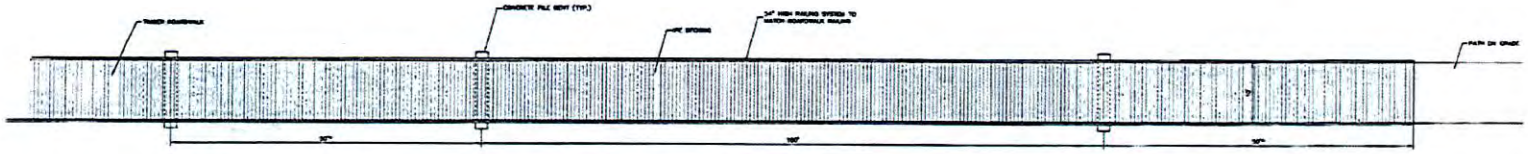


PEDESTRIAN BRIDGE ELEVATION



PEDESTRIAN BRIDGE PLAN

Kimley-Horn and Associates, Inc.	KHA PROJECT 148075.000	GORDON RIVER GREENWAY PARK	CONSERVATION COLLIER PEDESTRIAN BRIDGE DETAILS GOLDEN GATE CANAL CROSSING
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Exhibit 2.0A
Application No. 110617-17
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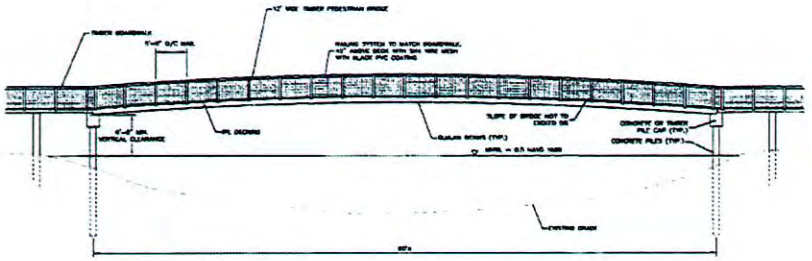
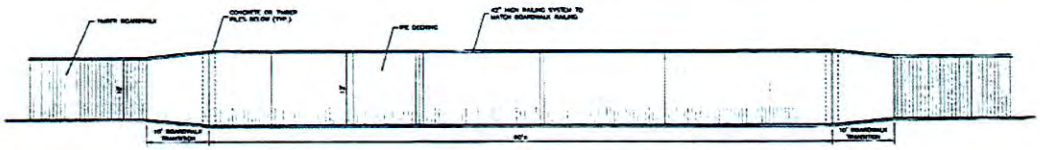


PEDESTRIAN BRIDGE ELEVATION



PEDESTRIAN BRIDGE PLAN

Kimley-Horn and Associates, Inc.	KHA PROJECT 148075.000	GORDON RIVER GREENWAY PARK	PEDESTRIAN BRIDGE DETAILS GORDON RIVER CROSSING
	DATE AUGUST 2011	COLLIER COUNTY FLORIDA	SHEET NUMBER C7.10B

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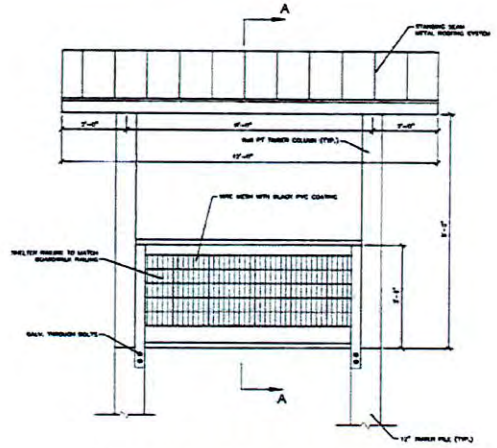
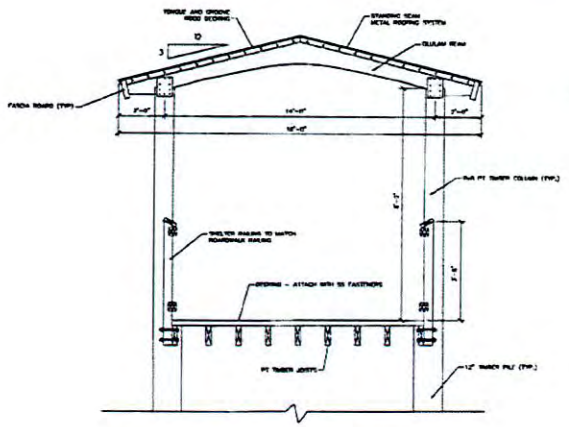
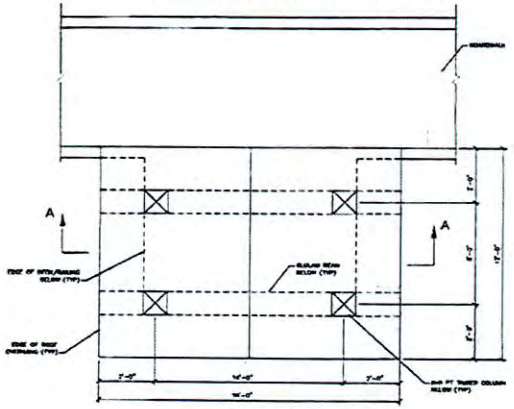


TYPICAL SHADE STRUCTURE ALONG BOARDWALK SIDE ELEVATION
NTS



SECTION A–A TYPICAL SHADE STRUCTURE ALONG BOARDWALK
NTS



TYPICAL SHADE STRUCTURE PLAN VIEW
NTS

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DATE AUGUST 2011
SCALE AS SHOWN
DESIGNED BY
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GORDON RIVER GREENWAY PARK

COLLIER COUNTY FLORIDA

SHADE STRUCTURE DETAIL

SHEET NUMBER C7.14

Exhibit 2.0A
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APPLICATION No.110617-17

PERMIT No. 11-03344-P

GORDON RIVER GREENWAY PARK

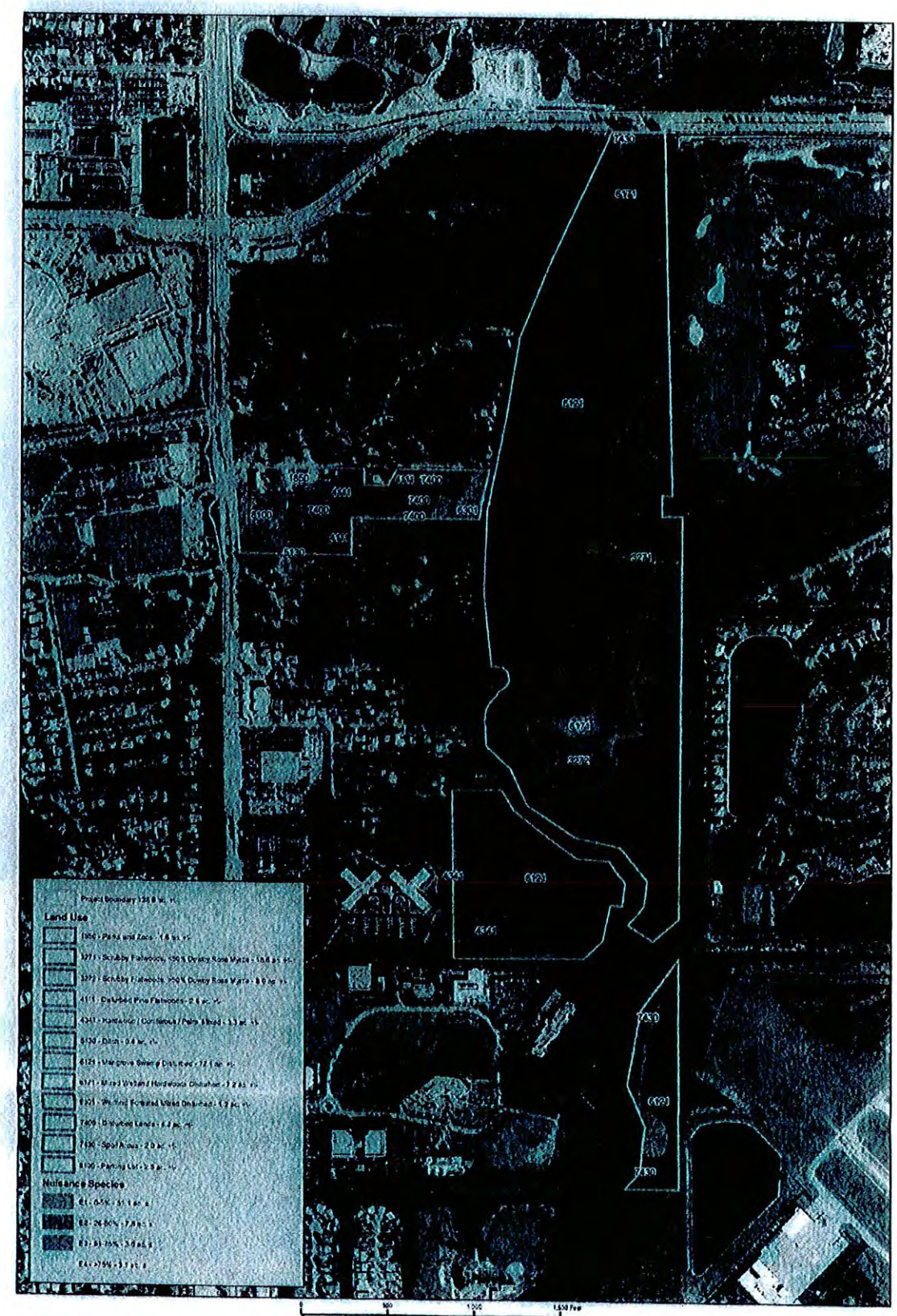
Exhibits by Reference:

EXHIBIT NUMBER 2.1 (Pages 1-10)
Construction Pollution Prevention Plan

EXHIBIT NUMBER 2.2 (Pages 1-5)
Urban Stormwater Management Program

EXHIBIT NUMBER 3.11 (Pages 1-14)
Florida Communities Trust (FCT) Declaration of Restrictive Covenants/Granting Agreement

EXHIBIT NUMBER 3.12 (Pages 1-23)
Land Management Plan Excerpt

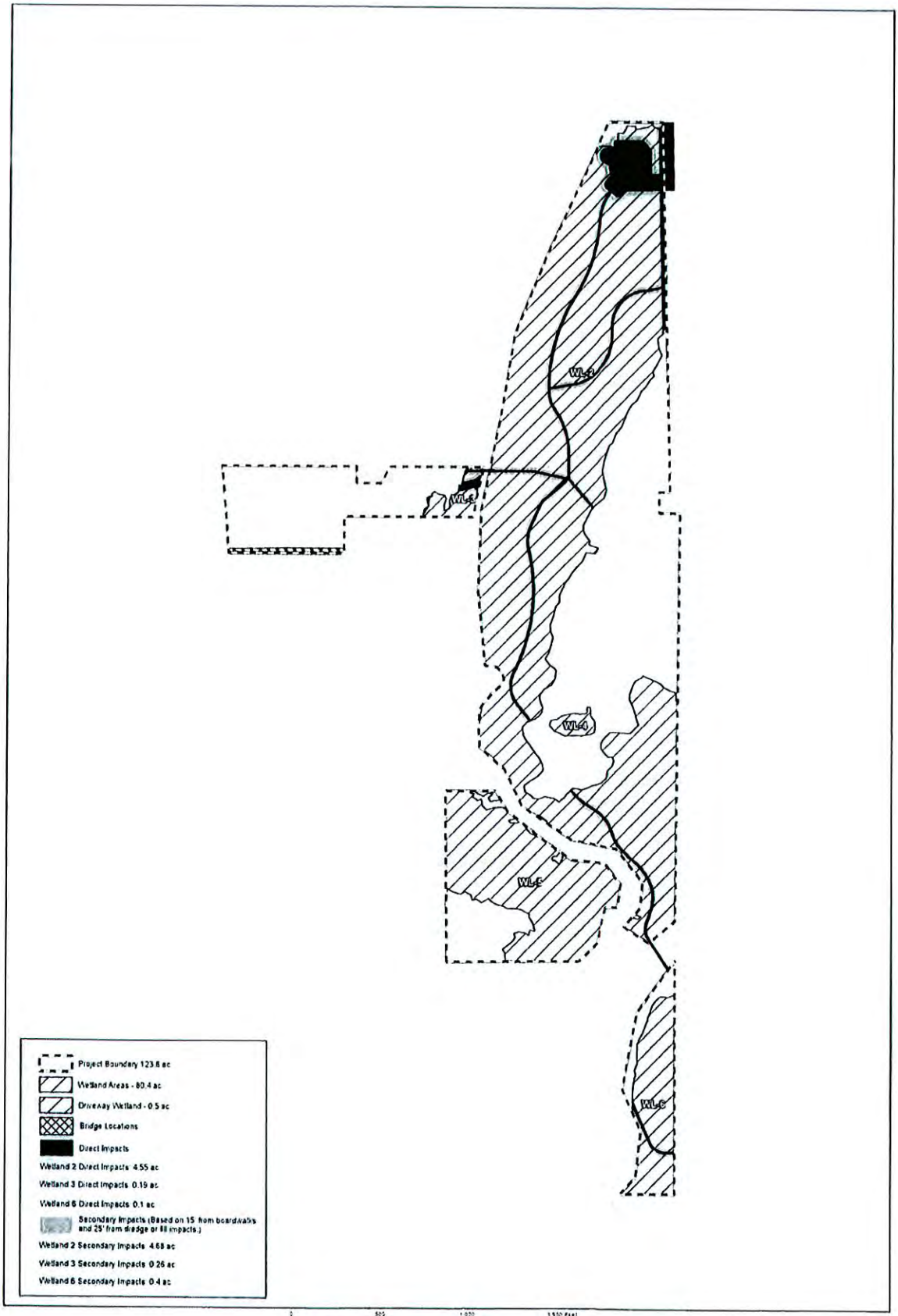


Land Use Conditions Map

Gordon River Greenway Park
Collier County, FL

Cardno ENTRIX

Exhibit 3.0
Application No. 1106017-17
1 of 1



Wetland Impact Map

Gordon River Greenway Park
Collier County, Florida

Gardno ENTRIX

Exhibit 3.1
Application No. 110617-17
1 of 1

Cardno ENTRIX

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COLLIER COUNTY
GORDON RIVER GREENWAY PARK
MITIGATION AREA
MONITORING, MAINTENANCE AND REPORTING PLAN
REVISED: MAY 21, 2012

The Gordon River Greenway Park is a public park proposed by the Collier County Parks and Recreation Department and the County's Conservation Collier program. The subject project is located in Sections 27 and 34, Township 49 South, Range 25 East, Collier County, Florida (Latitude/Longitude: 26.168517 N /-81.784889 W), encompasses 123.6 acres, and is divided into four (4) distinct parcels (Exhibit 1). The Gordon River is a Class III waterbody that is listed as impaired due to its low dissolved oxygen concentration by the Florida Department of Environmental Protection. Additionally, the Golden Gate Canal, a major drainage canal that terminates at Naples Bay, enters the Gordon River along the eastern boundary of the largest parcel. Currently, the property contains mangrove wetlands, a freshwater wetland, and uplands, portions of which are infested with nuisance exotic species.

Impacts associated with the construction of the passive recreational park include: fill in 3.13 acres of jurisdictional wetlands and surface waters for the construction of park facilities, infrastructure and pathways; and dredging of 0.13 acres of wetlands in conjunction with construction of a canoe/kayak launch. Additionally, construction of recreational boardwalks will result in potential shading impacts to 1.61 acres of wetlands. Finally, temporary construction impacts may be required adjacent to recreational boardwalks and in some other work areas totaling an estimated 0.63 acres. Areas disrupted by this work will be restored following boardwalk construction. As part of its review, the South Florida Water Management District (SFWMD) also evaluated potential secondary impacts to 5.34 acres resulting from construction of improvements within wetlands and therefore lacking an upland buffer.

Compensatory mitigation has been provided to offset the above-mentioned impacts (Exhibit 3). Mitigation accepted by both the SFWMD and U.S. Army Corps of Engineers (COE) includes: creation/restoration of 0.20 acres of tidal mangrove wetlands adjacent to Wetland 3 (Exhibit 2); and the treatment of nuisance and exotic plants in portions of Wetland 2 and in Wetlands 3, 4 and 6 totaling 14.11 acres. Additional mitigation provided to the SFWMD, but not accepted by the COE, includes: (1) water quality enhancements within 25.0 acres of Wetland 2; and (2) treatment of nuisance and exotic plants in 21 acres of upland preservation areas bordering wetlands on the project (Exhibit 3). Additional mitigation provided to the COE, but not accepted by the SWFWMD, includes the treatment of nuisance and exotic plants in an additional 9.0 acres of Wetland 2. The mitigation areas and additional undeveloped portions of the project totaling some 104± acres will also be placed under Conservation Easement to the SFWMD and naming the COE as having third-party enforcement rights (Exhibit 3).

MANGROVE CREATION/RESTORATION

A 0.2-acre tidal mangrove creation/restoration area will be constructed adjacent to Wetland 3 where spoil deposition has previously impacted the wetland. Exhibit 2 illustrates the grading and planting plan for the

area. The mitigation area will be graded to be connected hydrologically to the kayak launch channel although the design of the migitation area will prevent watercraft from entering the mitigation area. The mitgation area will also be graded to tie into the surrounding edge of Wetland 3.

As depicted in Exhibit 2, the native plants will be planted in the creation/restoration area and along its perimeter to create a visual buffer between the mitigation area and adjacent passive recreational uses. Buttonwood (*Conocarpus erectus*), coco-plum (*Chrysobalanus icaco*), white mangrove (*Laguncularia racemosa*) will be planted on the northern and western edges of the mitigation area to create a buffer with adjacent recreational uses. Sand cordgrass (*Spartina bakeri*), marsh cordgrass (*Spartina patens*), seashore paspalum (*Paspalum vaginatum*) and seashore dropseed grass (*Sporabolus virginicus*) will also be planted in the buffer. White mangrove, red mangrove (*Rhizophora mangle*) and leather fern (*Acrostichum danaiefolium*) will be planted in the interior of the creation/restoration area.

MITIGATION AREA NUISANCE/EXOTIC PLANT MANAGEMENT

Currently invasive plant species coverage within the park is low but contains some concentrated areas of nuisance/exotics. Selected areas of the park in Wetlands 2, 3, 4 and 6, as well as preserved uplands on the eastern side of the park, have been specifically identified as mitigation areas where nuisance and exotic plants will be eradicated. The nuisance and exotic plant maintenance plan for these mitigation areas will target Florida Exotic Pest Plant Council (FLEPPC) Category I and II plant species, including but not limited to, Brazilian pepper (*Schinus terebinthifolius*), Australian pine (*Casuarina equisetifolia*), melaleuca (*Melaleuca quinquenervia*), and downy rose myrtle (*Rhodomyrtus tomentosa*) .

All targeted nuisance and exotic vegetation will be removed from mitigation areas where access exists for vehicles, but in areas where vehicle access is limited, coordination with the South Florida Water Management District's Compliance and Enforcement Division and/or the US Army Corps of Engineers will occur to discuss the best means possible for exotic vegetation removal. Most woody invasive species will be treated with dye-laced herbicides (via foliar, cut stump, or basal treatments) and left in place to naturally decompose if they cannot be physically removed. Melaleuca will be girdled and treated with herbicide then left in place. Other hardwoods may be basal barked and/or hand cut and removed from the site, depending on access. In uplands, downy rose myrtle will be mechanically mulched with a Fecon-style grinder and re-sprouts treated when conditions allow. Where machinery cannot be used, downy rose myrtle will be hand cut at base, left on-site, and stumps sprayed with an appropriate herbicide. Australian pine growing adjacent to the Gordon River and canal, and over 20 feet in height will be basal barked, cut and left in place or where access is appropriate removed from site. Australian pine growing under 20 feet in height and growing at least 20 feet inward from the shoreline and 20 feet away from the boardwalk/trail may be killed in place. Invasive grasses, emergent, and submergent vegetation in the wetlands and buffers will be treated by herbicides specifically labeled and designed for aquatic use and applied under the direct supervision of a state-certified aquatic herbicide applicator. Maintenance inspections and/or maintenance will be performed on a quarterly basis for the first year and on a semiannual basis thereafter. The practices outlined above are also consistent with the Conservation Collier Program's Gordon River Greenway Preserve Land Management Plan that will also be used to guide the overall management of the project parcels under control by Conservation Collier.

The mitigation areas will be maintained and treated for nuisance and exotic plant species, as needed, on a semi-annual basis for a two-year period following initial treatment to prevent re-establishment of undesirable vegetation. Following this two-year period, the areas will be monitored on an annual basis as part of the park's overall habitat management activities to determine if additional management activities are warranted to comply with agency permit conditions. Aerial coverage of more than 5 percent by

FLEPPC Category I or II nuisance or exotic species will be used as a threshold for additional management activities.

SUPPLMENTAL PLANTING

In areas where nuisance and exotic species have been removed or killed in place, the treatment areas will be assessed for the establishment of a desirable native plant community. If positive evidence of recruitment by desirable native species adequate to meet permit conditions is not evident by the second growing season following the initial exotic vegetation treatment, a remedial, supplemental planting plan will be developed and implemented after feedback from District Compliance and Enforcement Division and COE staff.

If it is determined that supplemental planting in an area is necessary planting will consist of vegetation that is established in the surrounding area within each wetland. Wetland plants used within the enhancement areas will be obtained from a nursery. Planting events will occur between March and September of that year. Vegetation will be planted on wide centers in clusters with the goal of the devoid areas becoming colonized with planted and recruited vegetation. Below is a table of representative species that may be used for supplemental planting.

Table 1. Supplemental Planting Palette

Scientific Name	Common Name	Size	FLUCFCS Type
Acrostichum danaeifolium	giant leather fern	1 qrt.	6121/6171/6301
Aristida stricta	wiregrass	4" liners	3271/3272/4111
Avicennia germinans	black mangrove	1 gal.	6121/6171/6301
Blechnum serrulatum	swamp fern	4" liners	6171/6301
Chrysobalanus icaco	cocoplum	1 gal.	6121
Coccoloba uvifera	seagrape	1 gal.	6121
Conocarpus erectus	buttonwood	1 gal.	6121
Helianthus debilis	dune sunflower	4" liners	6121
Ipomoea pes-caprae	railroad vine	4" liners	6121
Juncus romerianus	black needlerush	4" liners	6121
Laguncularia racemosa	white mangrove	1 gal.	6121/6171/6301
Myrica cerifera	wax myrtle	1 gal.	3271/3272/4111
Paspalum vaginatum	seashore paspalum	4" liners	6121
Pinus elliottii	slash pine	1 gal.	3271/3272/4111
Rhizophora mangle	red mangrove	1 gal.	6121/6171/6301
Serenoa repens	saw palmetto	1 gal.	3271/3272/4111
Spartina alterniflora	saltmarsh cordgrass	4" liners	6121
Spartina patens	marshhay cordgrass	4" liners	6121

MONITORING PLAN

General locations of mitigation monitoring transects are reflected in Exhibit 4. The specific locations of transects will be field located concurrent with the time zero monitoring event within wetland and upland enhancement areas.

Five monitoring transects will be located in Wetland 2. Two monitoring transects will be located in Wetland 6. One transect will be established in each of Wetlands 3 and 4, and the creation/restoration area

to be constructed adjacent to Wetland 3. A total of four monitoring transects will be established in the upland restoration area on the eastern side of the project. This results in a minimum of eleven (11) monitoring transects established within the enhancement areas of the park. Monitoring transects will extend across portions of the enhanced habitat areas, capturing the zone changes and habitat type change. Along each transect, quadrat sampling points will be established at grading elevational zone changes. Photo stations will also be established at fixed points and each quadrat to provide views of representative habitats within the enhancement areas. During enhancement activities, the site contractor may adjust locations of the monitoring transects to ensure representative areas are included for monitoring, and to avoid potential conflicts with on-going habitat management and park operations.

REPORTING

A time-zero monitoring report will be prepared and submitted to SFWMD and COE within 30 days of the completion of all enhancement activities. The monitoring report will include a narrative outlining the resource management, and definitive monitoring methodologies mentioned above. The report will also include supporting exhibits with the location of each fixed photo station and the photo documentation of the areas, and a table quantifying percent cover. Additionally, water depths, wildlife observations, and hydrologic observations will be noted in the report. Following the time-zero report, monitoring and agency report will be completed as required by the SFWMD and COE permits. At this time, it is anticipated that the SFWMD will require annual monitoring events and reporting for five (5) years and that the COE will require semi-annual monitoring with annual reporting in Years 1 - 3, and annual monitoring and reporting in Years 4 – 5.

MITIGATION SUCCESS CRITERIA

Mitigation areas within the park are designed to offset adverse impacts to wetlands caused by the boardwalks, kayak launch, parking, stormwater infrastructure, and park facilities. These mitigation areas will include nuisance/exotic species removal and temporary construction impact area restoration. These areas are designed to achieve viable, sustainable ecological and hydrological functions. Wetlands identified for mitigation purposes will be considered successful and will be released from monitoring and reporting requirements when the following criteria are met continuously by the end of 5-year monitoring period for a period of at least one year without intervention in the form of irrigation, the addition or removal of vegetation, or other maintenance.

0.2-acre Mangrove Creation/Enhancement Area

1. The enhancement area can be reasonably expected to develop into an estuarine broadleaved forested wetland, as determined by the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al.).

2. The dominant and subdominant species of desirable wetland plants comprising each vegetative zone and stratum of the creation/enhancement area shall be consistent with that occuring in an esturine, mangrove-dominated system. Areal coverage of planted and recruited plants will be at least 80% by FAC or wetter species.

3. Topography, water depth and water level fluctuation in the enhancement area is characteristic of esturine wetlands.

4. Planted material has a survivorship of at least 80%.

5. Species composition of recruited vegetation is indicative of the wetland types typically found in estuarine forests within historical areas of Gordon River.

6. Coverage by FLEPPC Category I or II nuisance or exotic plant species does not exceed 5 percent areal cover. Dog fennel (*Eupatorium capillifolium*), Bermudagrass (*Cynodon* spp.), Bahiagrass (*Paspalum notatum*), and cattail (*Typha* sp.) shall also total less than 5 percent areal cover.

7. The wetland enhancement area can be determined to be a wetland or other surface water according to Chapter 62-340, Florida Administrative Code.

Nuisance/Exotic Plant Enhancement Areas

1. The enhancement area can be reasonably expected to develop into an estuarine broadleaved forested wetland, as determined by the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al.).

2. The dominant and subdominant species of desirable wetland plants comprising each vegetative zone and stratum of the enhancement areas shall be consistent with the surrounding wetland or upland area. The mitigation area will achieve at least 80% areal cover by wetland plants of FAC or wetter designation.

3. Topography, water depth and water level fluctuation in the enhancement area is characteristic of wetlands that perform similar functions.

4. Species composition of recruited vegetation is indicative of the wetland types typically found in estuarine forests within historical areas of Gordon River.

5. Coverage by FLEPPC Category I or II nuisance or exotic plant species does not exceed 5 percent areal cover. Dog fennel (*Eupatorium capillifolium*), Bermudagrass (*Cynodon* spp.), Bahiagrass (*Paspalum notatum*), and cattail (*Typha* sp.) shall also total less than 5 percent areal cover.

6. The wetland enhancement area can be determined to be a wetland or other surface water according to Chapter 62-340, Florida Administrative Code.

Mitigation areas may be deemed successful and released from monitoring and reporting requirements if the Permittee demonstrates that the mitigation areas meet permit performance standards by the end of the 5-year monitoring period, with no maintenance during the 5th year of monitoring.

IMPLEMETATION SCHEDULE

The proposed schedule assumes construction activities will begin in May 2012 but is subject to change based on permit issuance from all permitting agencies, the bidding process and construction and nuisance and exotic plant removal phasing. If the project schedule changes, all dates will be adjusted accordingly.

Task	Date
Initiate Construction / 1st Semi-annual Nuisance and Exotic Treatment	May 2012
Initiate 2nd Semi-annual Nuisance and Exotic Treatment	November 2012
Complete Mitigation Area M-1 and 2nd Treatment	April 2013

Exhibit 3.2
Application No. 110617-17
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Time Zero Monitoring Report	Within 60 days of completion of 1st Semi-Annual Nuisance and Exotic Treatment and the Completion of Mitigation Area M-1
Yr-2 1st Semi-annual Nuisance and Exotic Treatment	May 2013
Yr-2 2nd Semi-annual Nuisance and Exotic Treatment	November 2013
Evaluate and Implement Supplemental Planting, as needed	February – March 2014
First Annual Monitoring Report	April 2014
Yr-3 Annual Nuisance and Exotic Treatment	May 2014
Second Annual Monitoring Report	April 2015
Yr-4 Annual Nuisance and Exotic Treatment	May 2015
Third Annual Monitoring Report	April 2016
Yr-5 Annual Nuisance and Exotic Treatment	May 2016
Fourth Annual Monitoring Report	April 2017
Start Yr-6 No Treatment/Intervention	May 2017
Fifth Annual Monitoring Report & Release	April 2018

CONSERVATION EASEMENT

The Mitigation Areas provided to the SFWMD and/or COE, totaling 61.61± acres, will be included in the 104± acres to be placed under a passive recreational conservation easement granted to the SFWMD (see Exhibit 3). The Conservation Easement follows the form of SFWMD Form 1191 to allow passive recreational uses in the conservation area and includes the COE and Florida Communities Trust as entities with third-party beneficiary rights. The entire site is proposed to be maintained in perpetuity by the Collier County Parks and Recreation Department and the Conservation Collier Program.

EXHIBITS

Exhibit 1 Project Aerial Photograph
Exhibit 2 Mitigation Area M1 Plans
Exhibit 3 Mitigation and Conservation Easement Areas Map
Exhibit 4 Monitoring Transects Maps

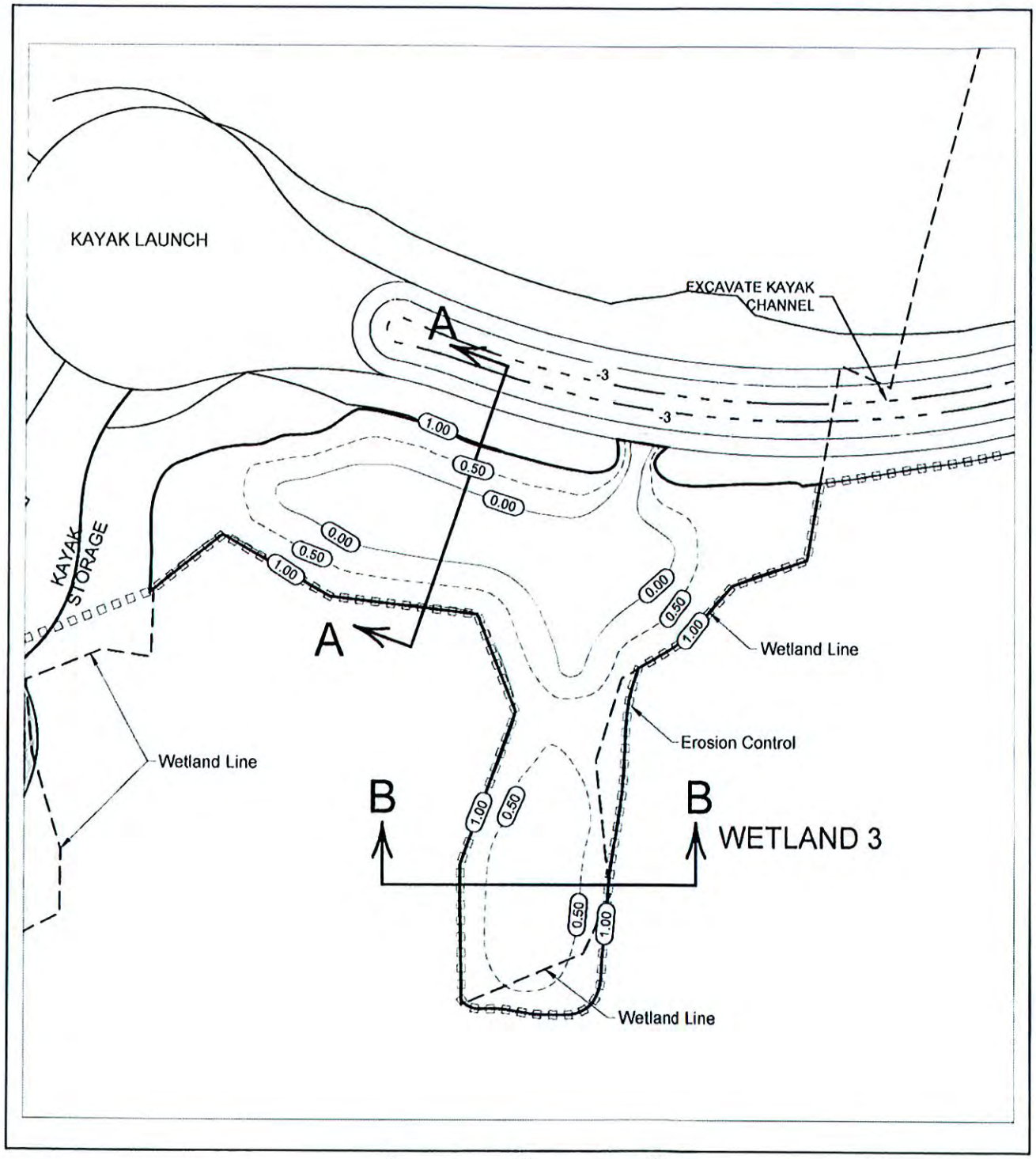


Aerial Map

Gordon River Greenway Park
Collier County, FL

Cardno ENTRIX

Exhibit 3.2
Application No. 110617-17
7 of 10



0 30' 60' feet

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M1 Grading Plan
Gordon River Greenway Park
Collier County, FL

COE
Sec 27 34
Twn 49 S
Rng 25 E

Sheet 01

Cardno ENTRIX
3905 Crescent Park Drive
Riverview, FL 33578-3625
813-664-4500 (p)
813-0440 (f)
www.cardnoentrix.com

Coordinate System:
NAD 83 Florida State Planes Feet West

PM RKL CAD Operator JMB Creation Date 7/19/2011 Rev Date 8/8/2011 Revised By Jamesb File Location Q:\UnitedStates\Florida\Sarasota\0437\177\working\cad\M1 Grading Plan.dwg

Exhibit 3.2
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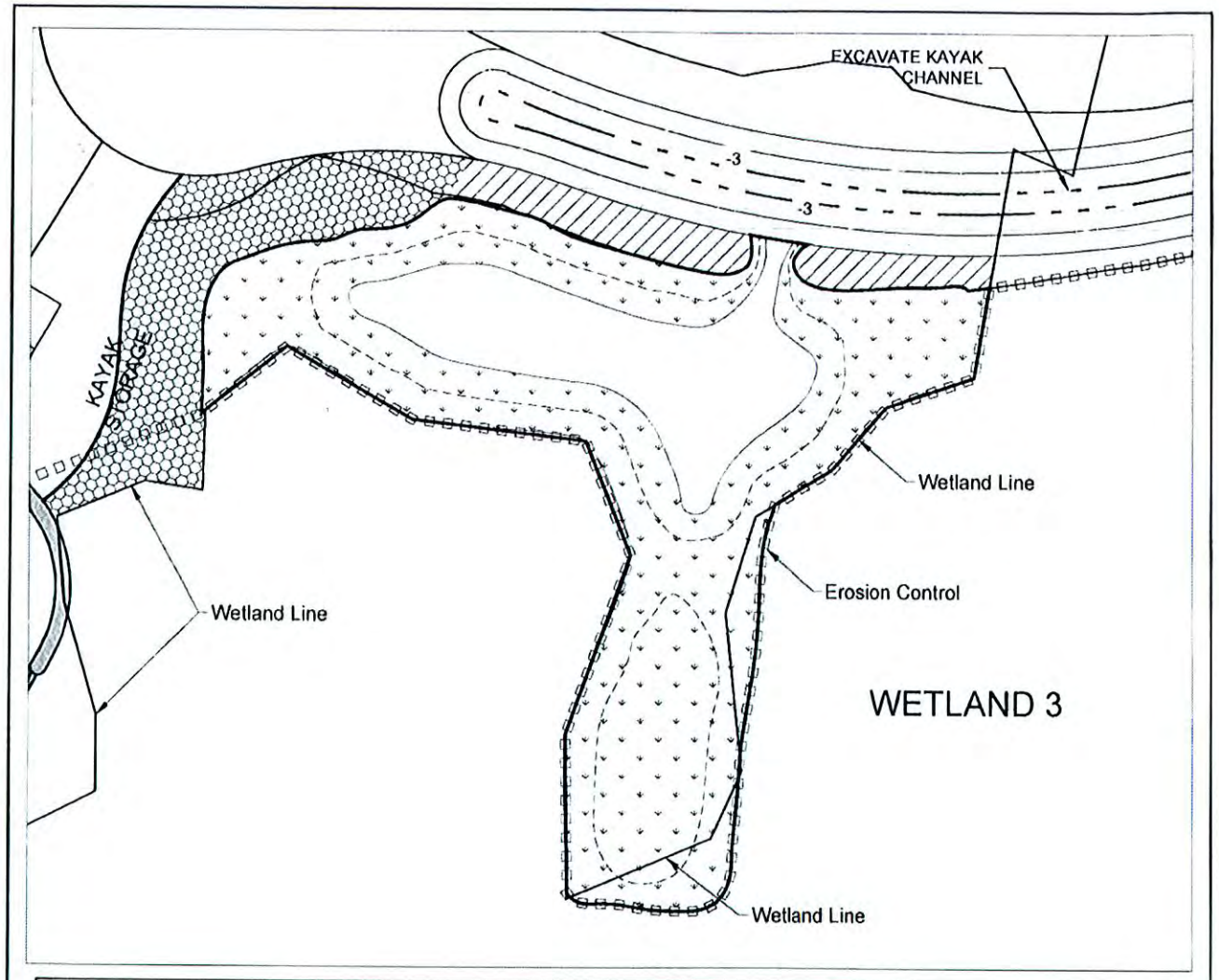
8 of 10



Planting Legend

	Common Name	Scientific Name	Area	Number	Size	Spacing
Zone 1	buttonwood	*Conocarpus erectus*	0.04	23	3-gallon	6' OC
	coco plum	*Chrysobalanus icaco*		23	3-gallon	6' OC
	smooth cordgrass	*Spartina bakeri*		90	1-quart	3' OC
	marsh cordgrass	*Spartina patens*		90	1-quart	3' OC
Zone 2	buttonwood	*Conocarpus erectus*	0.02	12	3-gallon	6' OC
	white mangrove	*Laguncularia racemosa*		12	3-gallon	6' OC
	marsh cordgrass	*Spartina patens*		70	1-quart	2' OC
	seashore paspalum	*Paspalulm vaginatum*		70	2-inch plug	2' OC
	seashore dropseed grass	*Sporobolus virginicus*		70	2-inch plug	2' OC
Zone 3	white mangrove	*Laguncularia racemosa*	0.14	30	1-gallon	10' OC
	red mangrove	*Rhizophora mangle*		30	1-gallon	10' OC
	leather fern	*Acrostichum danaiefolium*		380	1-gallon	4' OC

0 30' 60' feet

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M1 Planting Plan
Gordon River Greenway Park
Collier County, FL

COE
Sec 27,34
Twn 49 S
Rng 25 E

Sheet 02

Cardno ENTRIX
3905 Crescent Park Drive
Riverview, FL 33578-3625
813-684-4500 (p)
813-0440 (f)
www.cardnoentrix.com

Coordinate System:
NAD 83 Florida State Planes Feet West

PM RKL CAD Operator JMB Creation Date 7/19/2011 Rev Date 8/8/2011 Revised By Jamesb File Location Q:\UnitedStates\Florida\Sarasota\0437\177\working\cad\M1 Planting Plan.dwg

Exhibit 3.2
Application No. 110617-17
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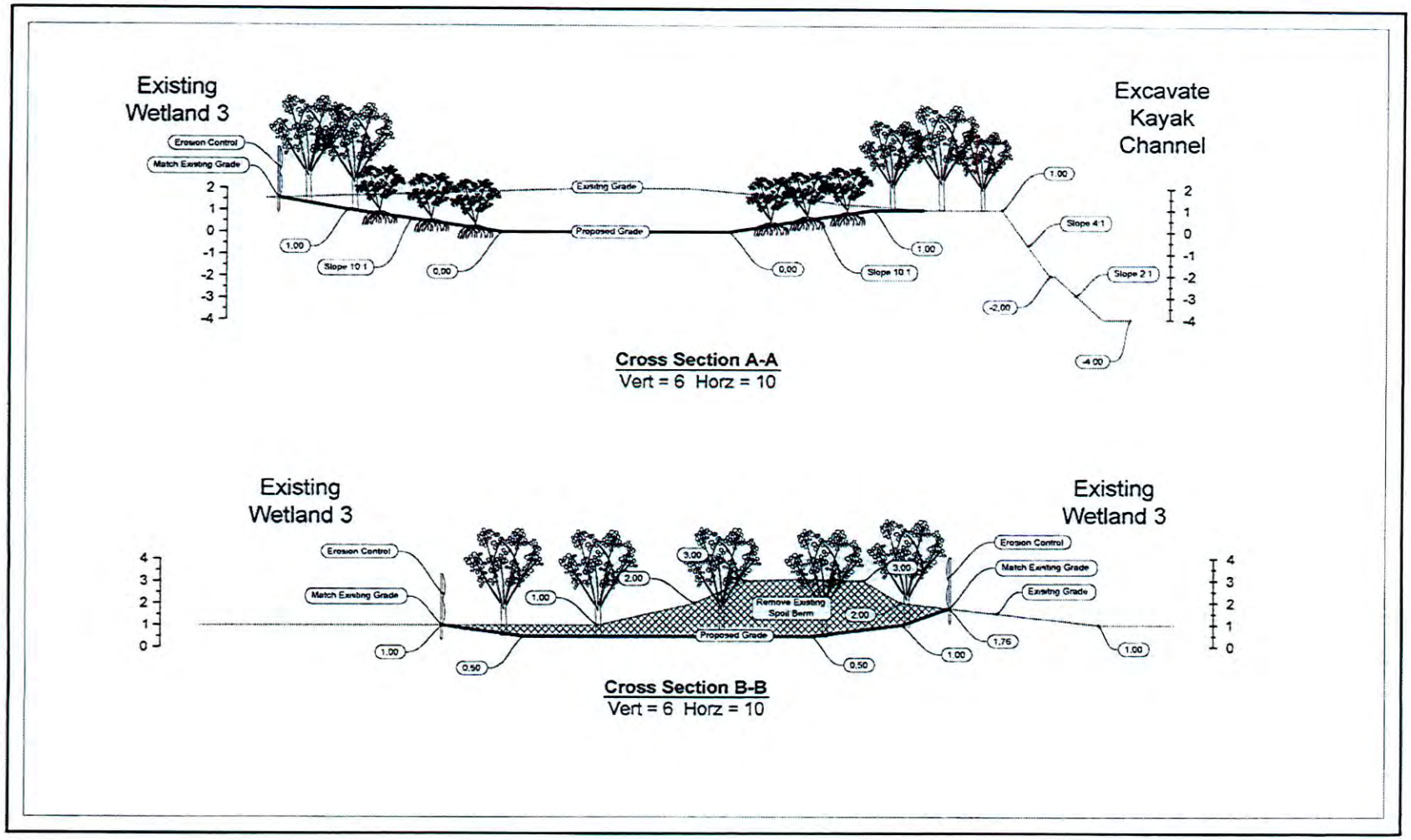

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M1 Cross Section
Gordon River Greenway Park
Collier County, FL

COE
Sec 27 34
Twn 49 S
Rng 25 E

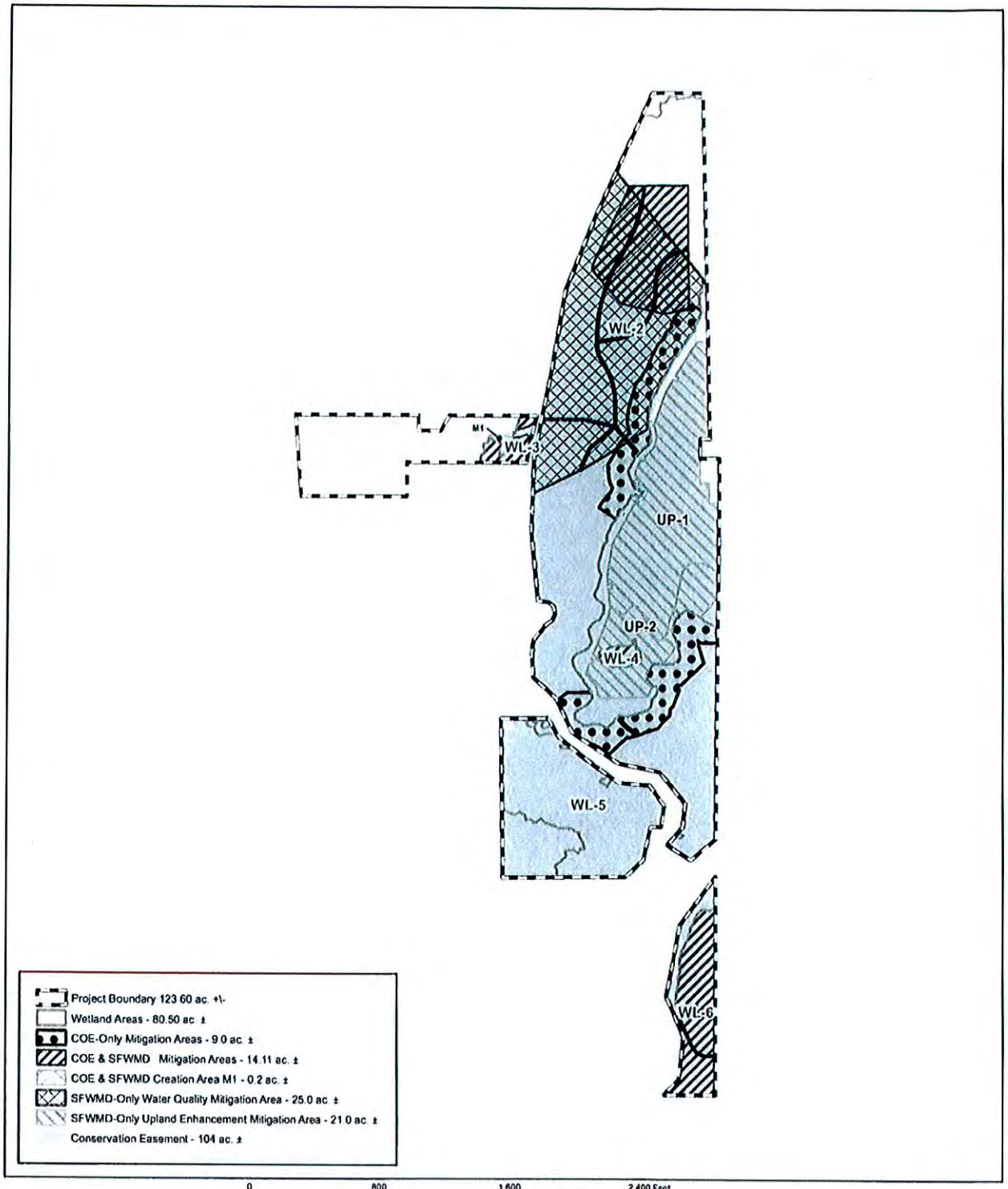
Sheet 03

Cardno ENTRIX
3905 Crescent Park Drive
Riverview, FL 33578-3625
813-664-4500 (p)
813-0440 (f)
www.cardnoentrix.com

Coordinate System:
NAD 83 Florida State Planes Feet, West

PM: RKL CAD Operator: JMB Creation Date: 7/19/2011 Rev. Date: 8/8/2011 Revised By: Jamesb File Location: Q:\United States\Florida\Sarasota\0437\177\working\cad\M1 Cross Section.dwg

Exhibit 3.2
Application No. 110617-17
10 of 10



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Mitigation and Conservation Easement Areas Map

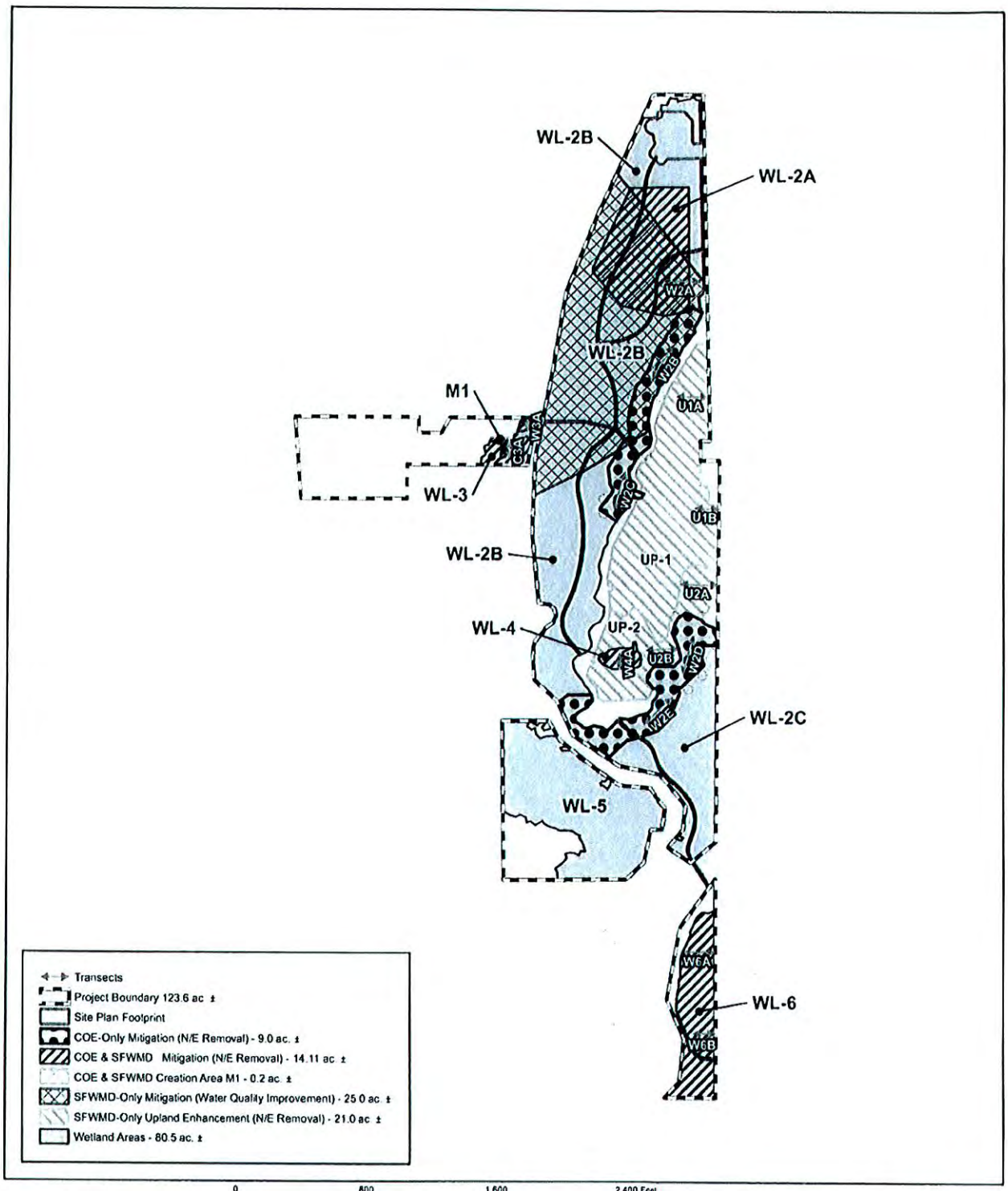
Gordon River Greenway Park
Collier County, Florida

Sec 27 32
Twp 48 S
Rng 25 E

Cardno ENTRIX
9005 Crescent Park Drive
Riverview, FL 33578-3825
ph (813) 654-4500
fx (813) 664-4440
www.cardnoentrix.com

Coordinate System:
NAD 1983 UTM Zone 17N feet

Exhibit 3.3
Application No. 110617-17
1 of 2



This map and all data contained within are supplied as is with no warranty. Cardno ENTRIX, Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.

Monitoring Transects Map
Gordon River Greenway Park
Collier County, Florida

Sec 27,34
Twp 49 S
Rng 25 E

Cardno ENTRIX
3905 Crescent Park Drive
Riverview, FL 33578-8826
ph (813) 694-1500
fx (813) 664-0440
www.cardnoentrix.com
Coordinate System
NAD 1983 UTM Zone 17N feet

Exhibit 3.3
Application No. 110617-17
2 of 2

South Florida Water Management District

Work Schedule Requirements

Application No : 110617-17

Mitigation Plan ID: GR GREENWAY

Activity	**Due Date**
SUBMIT BASELINE MONITORING REPORT	30-JUN-12
SUBMIT RECORDED CONSERVATION EASEMENT	31-JUL-12
EXOTIC VEGETATION REMOVAL	30-NOV-12
SUBMIT TIME ZERO MONITORING REPORT	30-APR-13
SUBMIT FIRST MONITORING REPORT	30-APR-14
SUBMIT SECOND MONITORING REPORT	30-APR-15
SUBMIT THIRD MONITORING REPORT	30-APR-16
SUBMIT FOURTH MONITORING REPORT	30-APR-17
SUBMIT FIFTH MONITORING REPORT	30-APR-18

Exhibit 3.4
Application No. 110617-17
1 of 1

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

DEED OF CONSERVATION EASEMENT

Return recorded document to:
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Environmental Resource Compliance
3301 Gun Club Road
West Palm Beach, FL 33416-4680

THIS DEED OF CONSERVATION EASEMENT is given this _____ day of _____, 2012, by Collier County, a political subdivision of the State of Florida, ("Grantor") whose mailing address is 3335 Tamiami Trail East, Suite 101, Naples, FL 34112 to the South Florida Water Management District ("Grantee") with third party enforcement rights to the U.S. Army Corps of Engineers ("Corps"). As used herein, the term "Grantor" shall include any and all successors or assigns of the Grantor, and all subsequent owners of the "Property" (as hereinafter defined) and the term "Grantee" shall include any successor or assignee of Grantee.

WITNESSETH

WHEREAS, the Grantor is the owner of certain lands situated in Collier County, Florida, and more specifically described in Exhibit "A" attached hereto and incorporated herein ("Property"); and

WHEREAS, the Grantor desires to construct Gordon River Greenway Park ("Project") at a site in Collier County, which is subject to the regulatory jurisdiction of South Florida Water Management District ("District") and the ACOE; and

WHEREAS, District Permit No. _____ ("District Permit") authorizes certain activities which affect surface waters in or of the State of Florida; and

WHEREAS, the U.S. Army Corps of Engineers Permit No. _____ ("Corps Permit") authorizes certain activities in the waters of the United States and requires this site protection instrument over some of the lands identified in Exhibit 3.3 as mitigation for such activities;

WHEREAS, these Permits require that the Grantor preserve, enhance, restore and/or mitigate wetlands and/or uplands under the District's and Corp's jurisdiction; and

WHEREAS, the Grantor has developed and proposed as part of the Permit conditions, a conservation tract and maintenance buffer involving preservation of certain wetland and/or upland systems on the Property; and

WHEREAS, Grantor has acquired the property with partial funding from the Florida Communities Trust (FCT), and the Property is subject to certain limitations provided in the FCT Grant Award Agreement a/k/a the Declaration of Restrictive Covenants (as recorded in O.R. Book 4253, Page 713 in Collier County)(the "Agreement");and

WHEREAS, as part and condition of the FCT funding, the Grantor provided and FCT approved a Management Plan for the project site, and together with the Agreement, the terms of which are hereby incorporated herein by reference (incorporated into the permit as Exhibit(s) 3.11 and 3.12, respectively); and

WHEREAS, Grantor intends that the conservation and recreation values of the Property be preserved and enhanced in accordance with the Management Plan, as it may be amended from time to time only after review and approval by FCT; and

WHEREAS, All activities by the Grantor shall be consistent with the Agreement and Management Plan, subject to any future revisions, and shall not conflict with the Prohibited Uses described below; and

WHEREAS, the Grantor, in consideration of the consent granted by the District Permit, is agreeable to granting and securing to the Grantee a perpetual Conservation Easement as defined in Section 704.06, Florida Statutes, over the area described on Exhibit "B" ("Conservation Easement") which includes third party enforcement rights for the Corps.

NOW, THEREFORE, in consideration of the issuance of the District Permit to construct and operate the permitted activity, and as an inducement to Grantee in issuing the District Permit, together with other good and valuable consideration, the adequacy and receipt of which are hereby acknowledged, Grantor hereby grants, creates, and establishes a perpetual Conservation Easement for and in favor of the Grantee upon the Property described on Exhibit "B" which shall run with the land and be binding upon the Grantor, and shall remain in full force and effect forever.

The scope, nature, and character of this Conservation Easement shall be as follows:

1. Recitals. The recitals hereinabove set forth are true and correct and are hereby incorporated into and made a part of this Conservation Easement.

2. Purpose. It is the purpose of this Conservation Easement to retain land or water areas in their natural, vegetative, hydrologic, scenic, open, agricultural or wooded condition and to retain such areas as suitable habitat for fish, plants or wildlife. Those wetland and/or upland areas included in the Conservation Easement which are to be preserved, enhanced or created pursuant to the District Permit shall be retained and maintained in the enhanced or created conditions required by the District Permit. To carry out this purpose, the following rights are conveyed to the Grantee by this easement:

a. To enter upon the Property at reasonable times with any necessary equipment or vehicles to enforce the rights herein granted in a manner that will not unreasonably interfere with the use and quiet enjoyment of the Property by Grantor at the time of such entry; and

b. To enjoin any activity on or use of the Property that is inconsistent with this Conservation Easement and to enforce the restoration of such areas or features of the Conservation Easement that may be damaged by any inconsistent activity or use.

3. Prohibited Uses. Except for restoration, creation, enhancement, maintenance and monitoring activities, or surface water management improvements, or other activities described herein that are permitted or required by the Permit, the following activities are prohibited in or on the Conservation Easement:

a. Construction or placing of buildings, roads, signs, billboards or other advertising, utilities, or other structures on or above the ground;

b. Dumping or placing of soil or other substance or material as landfill, or dumping or placing of trash, waste, or unsightly or offensive materials;

c. c. Removal or destruction of trees, shrubs, or other vegetation, except for: (1) the removal of vegetation in accordance with a District approved maintenance plan; or (2) the cutting or removal of vegetation which encroaches into any airspace or surface governed by Federal Regulation 29 CFR Part77;

d. Excavation, dredging, or removal of loam, peat, gravel, soil, rock, or other material substance in such manner as to affect the surface;

e. Surface use except for purposes that permit the land or water area to remain in its natural or enhanced condition

f. Activities detrimental to drainage, flood control, water conservation, erosion control, soil conservation, or fish and wildlife habitat preservation including, but not limited to, ditching, diking and fencing;

g. Acts or uses detrimental to such aforementioned retention of land or water areas;

h. Acts or uses which are detrimental to the preservation of the structural integrity or physical appearance of

sites or properties having historical, architectural, archaeological, or cultural significance.

4. Passive Recreational Facilities. Grantor reserves all rights as owner of the Property, including the right to engage in uses of the Property that are not prohibited herein and that are not inconsistent with any District or Corps rule, criteria, the Permit and the intent and purposes of this Conservation Easement. Passive recreational uses that are not contrary to the purpose of this Conservation Easement may be permitted upon written approval by the District and the Corps. Without limiting the generality of the foregoing, the following rights are expressly reserved:

a. The Grantor may conduct limited land clearing for the purpose of constructing such pervious facilities as docks, boardwalks or mulched walking trails; and

b. The Grantor may construct and maintain passive public use facilities for the purpose of educating the public or allowing public access and recreation which have minimal or no impact on natural resources; and

c. Grantor may place signs and markers as necessary to identify trails, restoration areas, or other site features related to public use and land management activities; and

d. Grantor may construct and maintain to the extent allowed by current and future permits, at grade, management roads, fire breaks, trails, walkways, piers, observation platforms or boardwalks necessary to provide public access and management activities as provided for in the site's management plan; and

e. Grantor may remove or kill by any lawful means, exotic or nuisance vegetation or animal species, conduct prescribed burns and conduct other management activities necessary to carry out management for conservation purposes; and

f. Grantor may conduct restoration and enhancement projects which do not conflict with the purpose of this easement; and

g. The construction and use of the approved passive recreational facilities shall be subject to the following conditions:

i. Grantor shall minimize and avoid, to the fullest extent possible, impact to any wetland or upland buffer areas within the Conservation Easement Area and shall avoid materially diverting the direction of the natural surface water flow in such area;

ii. Such facilities and improvements shall be constructed and maintained utilizing Best Management Practices;

iii. Adequate containers for litter disposal shall be situated adjacent to such facilities and improvements and periodic inspections shall be instituted by the maintenance entity, to clean any litter from the area surrounding the facilities and improvements;

iv. This Conservation Easement shall not constitute permit authorization for the construction and operation of the passive recreational facilities. Any such work shall be subject to all applicable federal, state, District or local permitting requirements.

5. No Dedication. No right of access by the general public to any portion of the Property is conveyed by this Conservation Easement.

6. Grantee's Liability. Neither Grantee nor the ACOE shall be responsible for any costs or liabilities related to the operation, upkeep or maintenance of the Property.

7. Property Assessments. If and to the extent that the Grantor is not exempt from assessments and assessments are levied against the Easement Parcel, Grantor shall keep the assessments on the Easement Parcel current.

8. Enforcement. Enforcement of the terms, provisions and restrictions of this Conservation Easement shall be

at the reasonable discretion of Grantee, and any forbearance on behalf of Grantee to exercise its rights hereunder in the event of any breach hereof by Grantor, shall not be deemed or construed to be a waiver of Grantee's rights hereunder.

9. Rights of the U.S. Army Corps of Engineers ("Corps"): The Corps, as a third party beneficiary, shall have the right to enforce the terms and conditions of the site protection instrument, including:

a. The right to take action to preserve and protect the environmental value of the Property;

b. The right to prevent any activity on the Property that is inconsistent with the purpose of this instrument, and to require the restoration of areas or feature of the Property that may be damaged by any inconsistent activity;

c. The right to enter upon and inspect the Property in a reasonable manner and at reasonable times to determine if Grantor or its successors and assigns are complying with the covenants and prohibitions contained in this instrument;

d. The right to enforce this instrument by injunction or proceed at law or in equity to enforce the provisions of this instrument and the covenants set forth herein, to prevent the occurrence of any of the prohibited activities hereinafter set forth, and the right to require Grantor, or its successors and assigns, to restore such areas or features of the Property that may be damaged by unauthorized activities, and;

10. Third Party (Corps) Notice Rights: The Grantor, including their successors or assigns, shall provide the Corps at least 60 days advance notice in writing before any action is taken to amend, alter, release, or revoke this instrument. The Grantee shall provide reasonable notice and an opportunity to comment or object to the release or amendment to the Corps. The Grantee shall consider any comments or objections from the Corps when making the final decision to release or amend such a conservation easement.

11. Florida Communities Trust Notice Rights: The Grantor shall also provide the FCT, whose mailing address is: Department of Environmental Protection, 3900 Commonwealth Blvd., MS#115, Tallahassee, Florida 32399, at least 60 days advance notice in writing before requesting that any action is taken to modify, alter, release or revoke this Conservation Easement.

12. Assignment. Grantee will hold this Conservation Easement exclusively for conservation purposes. Grantee will not assign its rights and obligations under this Conservation Easement except to another organization or entity qualified to hold such interests under the applicable state laws.

13. Severability. If any provision of this Conservation Easement or the application thereof to any person or circumstances is found to be invalid, the remainder of the provisions of this Conservation Easement shall not be affected thereby, as long as the purpose of the Conservation Easement is preserved.

14. Terms, Conditions, Restrictions, Purpose. The terms, conditions, restrictions and purpose of this Conservation Easement shall be referenced by Official Record Book and Page Number by Grantor in any subsequent deed or other legal instrument by which Grantor divests itself of any interest in the Conservation Easement. Any future holder of the Grantor's interest in the Property shall be notified in writing by Grantor of this Conservation Easement and the third party enforcement rights of the ACOE.

15. Written Notice. All notices, consents, approvals or other communications hereunder shall be in writing and shall be deemed properly given if sent by United States certified mail, return receipt requested, addressed to the appropriate party or successor-in-interest.

16. Modifications. This Conservation Easement may be amended, altered, released or revoked only by written agreement between the parties hereto or their heirs, assigns or successors-in-interest, which shall be filed in the public records in Collier County.

TO HAVE AND TO HOLD unto Grantee forever. The covenants, terms, conditions, restrictions and purposes imposed with this Conservation Easement shall be binding upon Grantor, and shall continue as a servitude running in perpetuity with the Property.

The Grantor agrees to defend the title to the Conservation Easement property hereby conveyed against the lawful claims of all persons claiming by, through, or under the Grantor, except those claims created or arising from any act or omission of Grantee.

IN WITNESS WHEREOF, Collier County (Grantor) has hereunto set its authorized hand this _____ day of _____, 2012 .

ATTEST:
DWIGHT E. BROCK, Clerk

BY:_____
Deputy Clerk

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

BY:_____
Fred W. Coyle, Chairman

Approved as to form and legal sufficiency:

_____
Jennifer B. White
Assistant County Attorney

Reviewed and Approved by:

_____
Clay Smallwoood, Division Director
Division of State Lands

Reviewed and Approved by:

_____
Name, Title
South Florida Water Management District

Reviewed and Approved by:

_____
Name, Title
Army Corp of Engineers

EXHIBIT A

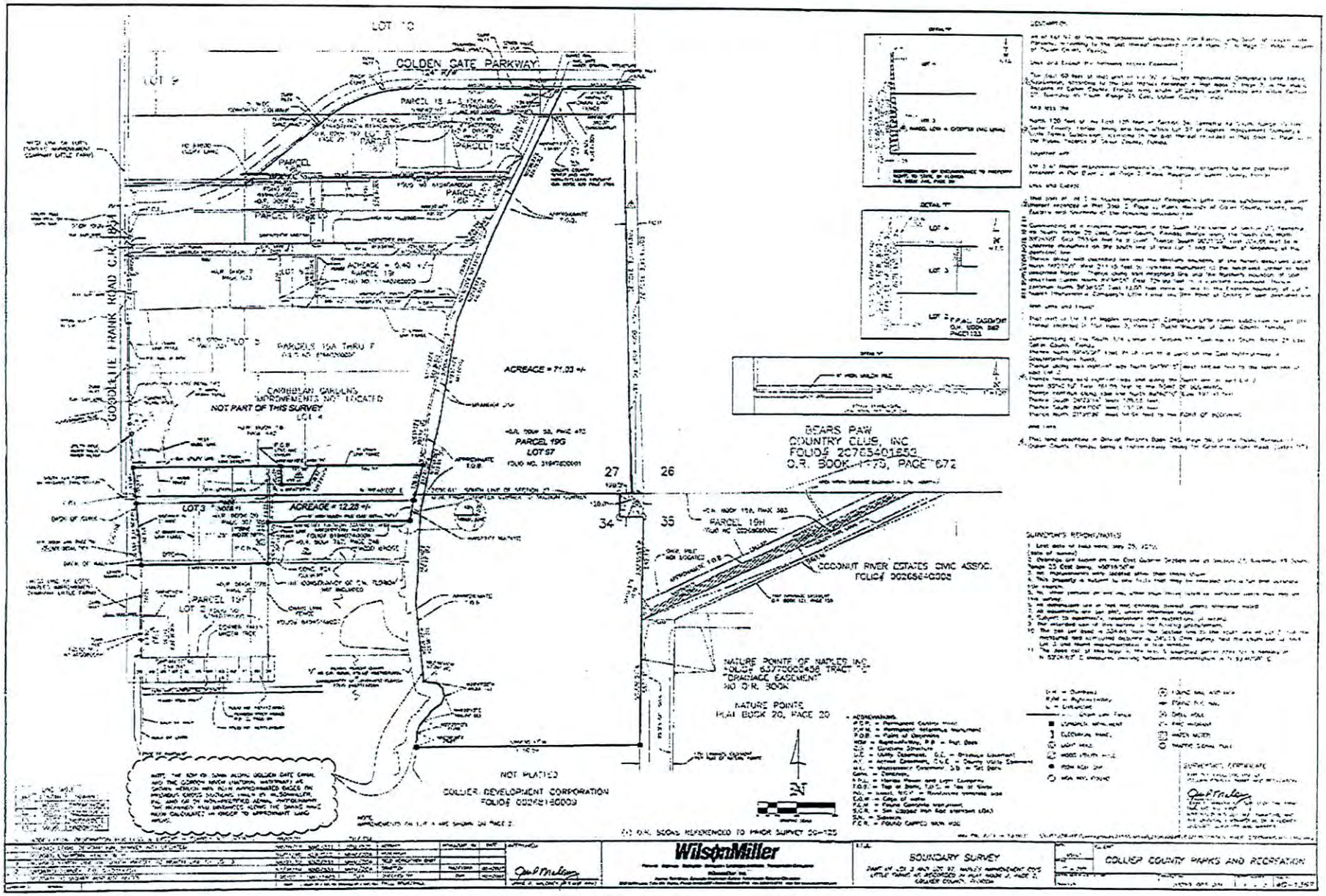


Exhibit 3.5
Application No. 110617-17
6 of 18

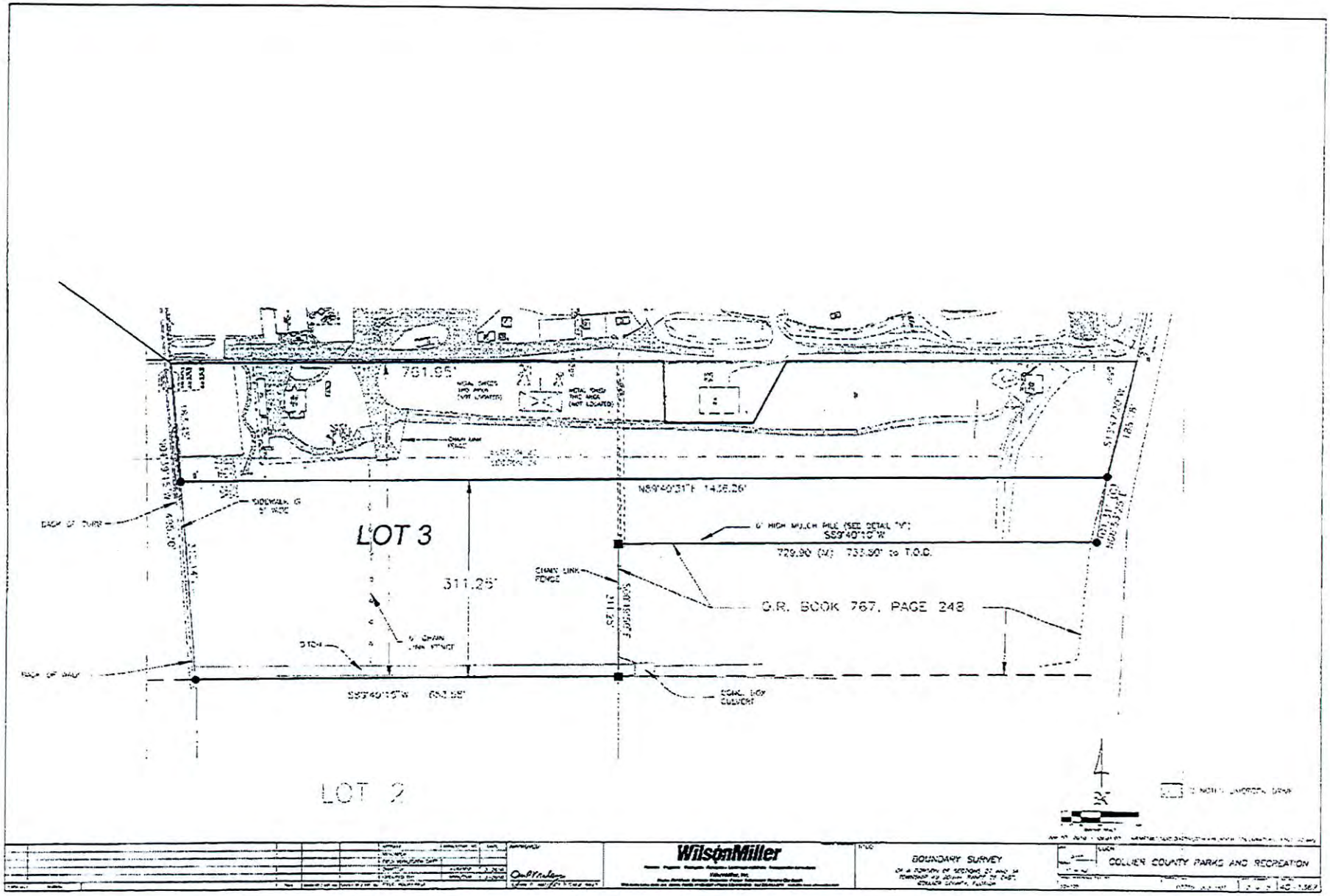


Exhibit 3.5
Application No. 110617-17
7 of 18

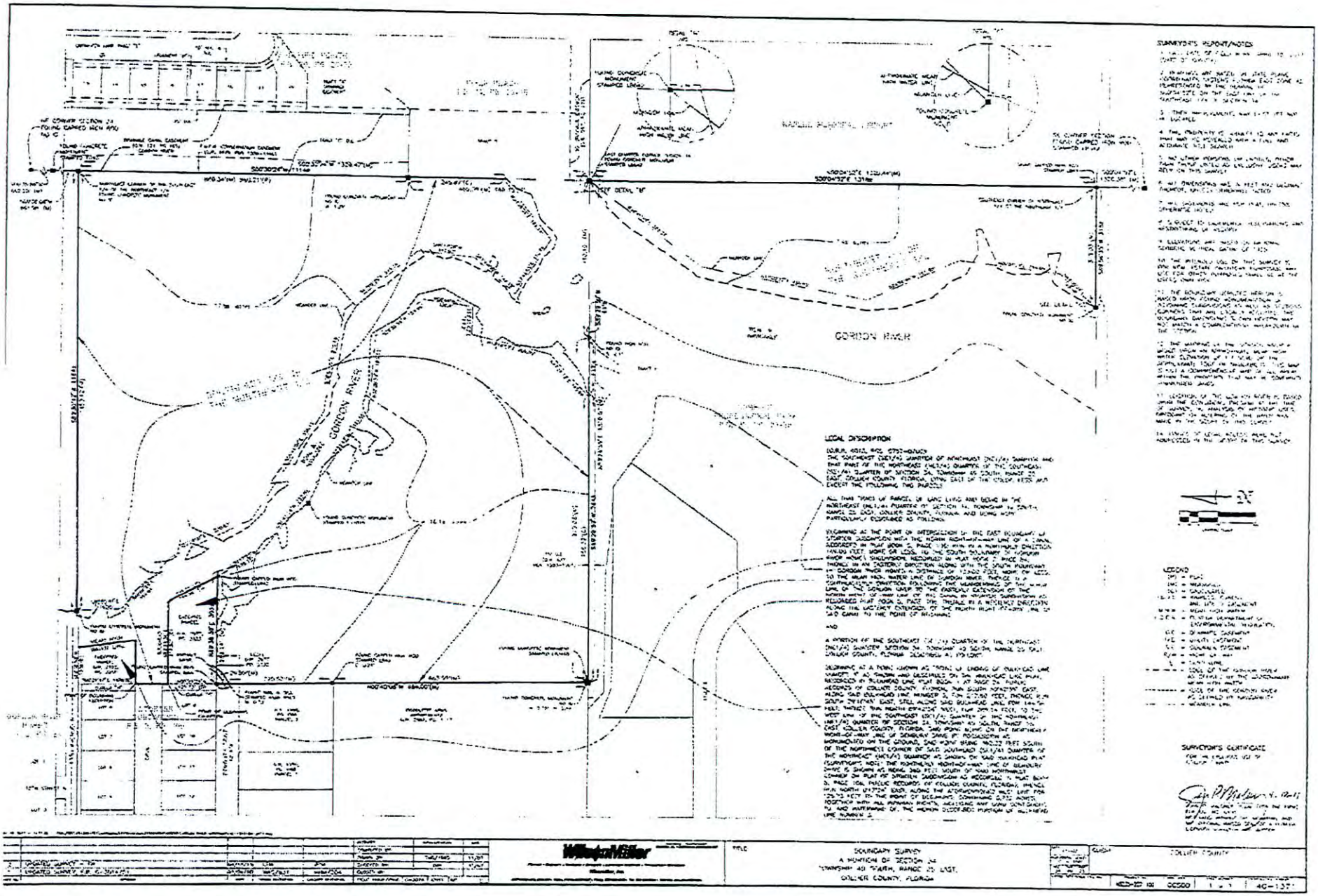


Exhibit 3.5
Application No. 110617-17
8 of 18

EXHIBIT B

[LEGAL DESCRIPTION AND SKETCH]

WilsonMiller

Stantec

3200 Bailey Lane, Suite 200
Naples, FL 34105
Tel: (239) 649-4040

LEGAL DESCRIPTION
Of part of Lots 3 and 97,
Naples Improvement Co's. Little Farms
Plat Book 2, page 2, and part of
Section 34, Township 49 South, Range 25 East,
Collier County, Florida.
Gordon River Greenway Park (Conservation Easement Areas)

(Conservation Easement Area 1)

All of that part of Lot 97, according to the plat of Naples Improvement Co's. Little Farms, Plat Book 2, page 2, of the public records of Collier County, Florida, being more particularly described as follows;
Commencing at the Northeast corner of Section 34, Township 49 South, Range 25 East, Collier County, Florida;
Thence along the east line of said Section 34 South 00°35'54" West 390.01 feet to the POINT OF BEGINNING;
Thence continue along said east line South 00°35'54" West 272.19 feet;
Thence still continuing along said east line South 00°36'24" West 662.11 feet to a point hereinafter referred to as Point "A";
Thence leaving said east line South 89°30'42" West 1,150.59 feet more or less to the approximate top of bank of the Gordon River;
Thence along the approximate top of bank of Gordon River in the following eighteen (18) described courses:

1. North 06°35'53" West 27.14 feet;
2. North 18°26'38" East 14.90 feet;
3. North 00°00'00" East 37.70 feet;
4. North 19°02'05" East 36.15 feet;
5. North 35°46'04" East 36.30 feet;
6. North 45°00'53" East 36.67 feet;
7. North 31°41'50" East 30.57 feet;
8. North 53°40'09" East 58.81 feet;
9. North 24°43'09" East 42.34 feet;
10. North 14°06'34" West 47.07 feet;
11. North 49°41'48" West 37.43 feet;
12. North 83°36'45" West 67.00 feet;
13. North 05°29'23" West 425.38 feet;
14. North 02°15'40" East 465.17 feet to a point hereinafter referred to as Point "B";
15. North 11°44'08" East 533.83 feet;
16. North 09°52'42" East 481.60 feet;
17. North 22°13'57" East 494.19 feet;
18. North 25°21'04" East 297.36 feet;

Thence leaving said meander line South 43°48'06" East 119.68 feet;
Thence North 89°29'59" East 368.52 feet;
Thence South 00°11'13" East 461.26 feet;
Thence South 39°45'16" East 128.55 feet;
Thence South 01°14'14" East 241.06 feet;
Thence South 25°19'28" West 115.53 feet;
Thence South 33°52'59" West 87.82 feet;

Thence South 32°02'14" West 289.41 feet;
Thence South 21°33'08" West 216.41 feet;
Thence South 68°26'52" East 40.00 feet;
Thence North 21°33'08" East 212.74 feet;
Thence North 32°02'14" East 285.10 feet;
Thence North 33°52'59" East 59.68 feet;
Thence North 88°45'46" East 64.81 feet to a point on the right of way easement as recorded in Official Records Book 4097, page 661, of the public records of Collier County, Florida;
Thence along said easement in the following three (3) described courses:

1. South 01°14'09" East 590.46 feet;
2. South 89°46'05" West 60.00 feet;
3. South 00°37'53" West 120.01 feet;

Thence leaving said easement continuing South 00°37'53" West 149.22 feet;
South 89°24'06" East 60.12 feet to a point on the right of way easement as recorded in Official Records Book 4535, pages 2342-2346 of the public records of Collier County, Florida;
Thence along said easement line South 00°35'54" West 119.05 feet;
Thence continue along said easement South 89°24'06" East 60.00 feet to the POINT OF BEGINNING.

Containing 62.53 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 2)

All of that part of Lot 3, according to the plat of Naples Improvement Co's. Little Farms, Plat Book 2, page 2, of the public records of Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "B";
Thence North 03°06'12" East 247.10 feet to the north line of said Lot 3 and the POINT OF BEGINNING;
Thence South 13°47'20" West 60.40 feet;
Thence 148.46 feet along the arc of a non-tangential circular curve concave north having a radius of 179.32 feet through a central angle of 47°26'04" and being subtended by a chord which bears South 72°29'12" West 144.26 feet;
Thence North 13°50'44" East 24.73 feet;
Thence North 15°37'42" East 67.49 feet;
Thence North 56°33'03" East 22.56 feet to the north line of said Lot 3;
Thence along said north line North 89°40'10" East 109.05 feet to the POINT OF BEGINNING.

Containing 0.26 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 3)

All of that part of Lot 3, according to the plat of Naples Improvement Co's. Little Farms, Plat Book 2, page 2, of the public records of Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "B";
Thence South 52°10'55" West 59.84 feet to the POINT OF BEGINNING;

Thence along the north line of that land described in Official Records Book 767, page 248, South 89°40'31" West 289.89 feet;
Thence leaving said line North 08°17'19" East 23.82 feet;
Thence 4.36 feet along the arc of a non-tangential circular curve concave northwest having a radius of 38.00 feet through a central angle of 06°34'06" and being subtended by a chord which bears North 31°54'35" East 4.35 feet;
Thence North 28°37'32" East 3.19 feet;
Thence 9.22 feet along the arc of a circular curve concave west having a radius of 11.50 feet through a central angle of 45°56'06" and being subtended by a chord which bears North 05°39'29" East 8.97 feet;
Thence North 63°19'18" East 23.50 feet;
Thence North 00°20'29" East 14.77 feet;
Thence North 16°27'25" West 4.07 feet;
Thence North 28°37'32" East 2.73 feet;
Thence 44.63 feet along the arc of a circular curve concave west having a radius of 38.00 feet through a central angle of 67°17'09" and being subtended by a chord which bears North 05°01'02" West 42.11 feet;
Thence North 42°10'40" East 1.26 feet;
Thence North 32°01'25" East 5.42 feet;
Thence North 22°21'16" East 5.67 feet;
Thence North 13°08'35" East 6.64 feet;
Thence North 03°20'11" East 7.41 feet;
Thence North 00°00'25" West 5.64 feet;
Thence North 14°02'44" East 4.15 feet;
Thence North 09°54'41" East 4.60 feet;
Thence North 21°24'48" East 5.71 feet;
Thence North 25°47'06" East 4.63 feet;
Thence North 36°22'51" East 6.20 feet;
Thence North 38°24'53" East 3.63 feet;
Thence 12.98 feet along the arc of a non-tangential circular curve concave north having a radius of 32.22 feet through a central angle of 23°05'14" and being subtended by a chord which bears North 85°29'43" East 12.89 feet to a point of reverse curvature;
Thence 62.02 feet along the arc of a circular curve concave south having a radius of 100.00 feet through a central angle of 35°32'05" and being subtended by a chord which bears South 88°16'52" East 61.03 feet to a point of reverse curvature;
Thence 216.03 feet along the arc of a circular curve concave north having a radius of 243.31 feet through a central angle of 50°52'18" and being subtended by a chord which bears North 84°03'01" East 209.01 feet;
Thence South 13°47'20" West 89.02 feet;
Thence South 08°57'31" West 102.74 feet to the POINT OF BEGINNING.

Containing 1.05 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 4)

All of that part of Section 34, Township 49 South, Range 25 East, Collier County, Florida, being more particularly described as follows;
Beginning at the aforementioned Point "A";
Thence along the east line of said Section 34, South 00°30'24" West 1,106.14 feet more or less to the mean high water line of Gordon River and a point hereinafter

referred to as Point "C";

Thence along the meander line of Gordon River as shown on WilsonMiller Inc. Survey File No. 4G-1371 in the following ten (10) described courses:

1. South 50°58'09" West 199.14 feet;
2. North 57°49'55" West 170.86 feet to a point hereinafter referred to as Point "D";
3. North 41°49'00" East 142.12 feet;
4. North 06°17'26" East 147.93 feet;
5. North 40°02'25" West 245.16 feet;
6. North 78°51'05" West 270.68 feet;
7. North 56°44'04" West 338.49 feet;
8. North 25°24'03" West 230.83 feet;
9. North 48°06'26" West 189.84 feet;
10. North 02°50'41" West 116.95 feet;

Thence leaving said meander line North 89°30'42" East 1,150.62 feet to the POINT OF BEGINNING.

Containing 17.38 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 5)

All of that part of Section 34, Township 49 South, Range 25 East, Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "D";
Thence North 18°06'05" West 114.89 feet to the meander line of Gordon River and the POINT OF BEGINNING;
Thence along said meander line as shown on WilsonMiller Inc. Survey File No. 4G-1371 in the following three (3) described courses:

1. North 88°33'02" West 72.63 feet;
2. South 13°14'57" West 209.05 feet;
3. South 47°24'12" West 149.66 feet to a point on the north line of Tract K, according to the plat of The Commons Professional Park, Plat Book 23, pages 23-35, of the public records of Collier County, Florida;

Thence along the north line of said Tract K, South 89°29'59" West 756.32 feet;
Thence leaving said north line North 00°40'08" West 904.00 feet to a point on the ingress, egress and utility easement as recorded in Official Records Book 2977, page 2333, of the public records of Collier County, Florida;
Thence along said easement North 89°38'42" East 74.67 feet;
Thence continue along said easement North 00°21'18" West 60.00 feet to a point on the boundary of those lands described in Official Records Book 2977, page 2333, of the public records of Collier County, Florida;
Thence along said boundary North 89°38'36" East 214.13 feet more or less to the said meander line of the Gordon River;
Thence along the meander line of the Gordon River in the following six (6) described courses:

1. South 30°57'25" East 135.17 feet;
2. South 51°43'04" East 265.69 feet;
3. South 55°33'47" East 191.66 feet;
4. South 85°08'59" East 195.53 feet;
5. South 38°30'59" East 154.96 feet;
6. South 08°04'40" West 130.81 feet to the POINT OF BEGINNING.

Containing 16.13 acres more or less.

ALSO INCLUDING:
(Conservation Easement Area 6)

All of that part of Section 34, Township 49 South, Range 25 East, Collier County, Florida, being more particularly described as follows;
Commencing at the aforementioned Point "C";
Thence along the east line of said Section 34, South 00°30'24" West 223.28 feet to the POINT OF BEGINNING;
Thence continue along said east line South 00°04'52" East 1,320.44 feet;
Thence leaving said east line South 89°56'35" West 319.03 feet more or less to the meander line of Gordon River as shown on WilsonMiller Inc. Survey File No. 4G-1371 ;
Thence along the meander line of Gordon River in the following five (5) described courses:
1. North 44°00'24" East 129.66 feet;
2. North 06°51'03" East 264.09 feet;
3. North 24°26'44" West 261.95 feet;
4. North 11°00'12" East 439.63 feet;
5. North 36°41'49" East 368.26 feet to the POINT OF BEGINNING.

Containing 6.59 acres more or less.

Containing 103.94 net acres more or less.
Subject to easements and restrictions of record.
Bearings are based on the East line of said Section 34, being South 00°35'54" West.

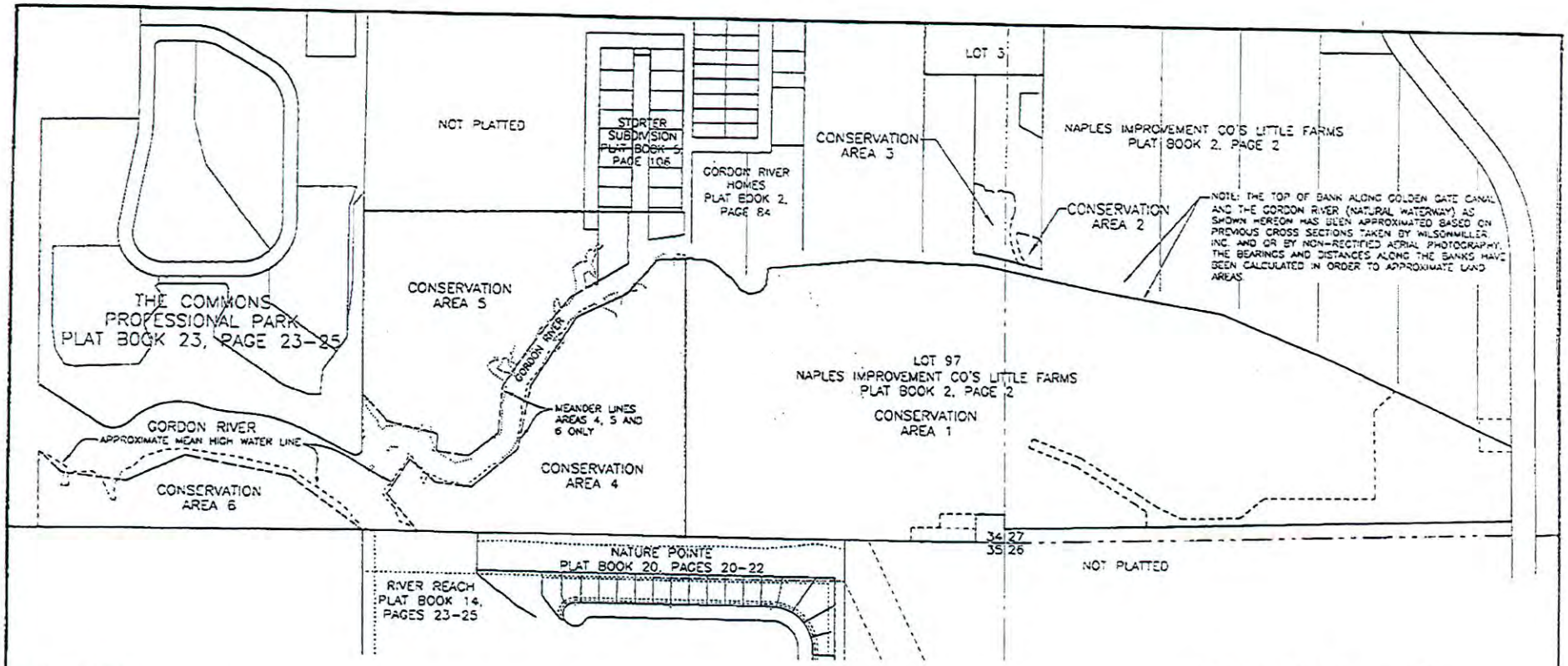
Certificate of authorization #LB-43.

WilsonMiller, Inc.
Registered Engineers and Land Surveyors

By: _____ Date: February 22, 2012
John P. Maloney, Professional Surveyor and Mapper #LS4493

Ref: 2G-839

Not valid unless embossed with the Professional's seal.



GENERAL NOTES:

BEARINGS ARE BASED ON THE EAST LINE OF SECTION 34, BEING SOUTH 00° 35'54" WEST.
DIMENSIONS ARE IN FEET ' AND DECIMALS . THEREOF.
DIMENSIONS ALONG CURVES ARE: Δ = DELTA, L = ARC LENGTH, CD = CHORD DISTANCE, T = TANGENT, R = RADIUS, CB = CHORD BEARING
P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING
R.O.W. = RIGHT-OF-WAY, A.E. = ACCESS EASEMENT,
D.E. = DRAINAGE EASEMENT, P.U.E. = PUBLIC UTILITY EASEMENT.

CONSERVATION AREA 1	= 62.53
CONSERVATION AREA 2	= 0.26
CONSERVATION AREA 3	= 1.05
CONSERVATION AREA 4	= 17.38
CONSERVATION AREA 5	= 16.13
CONSERVATION AREA 6	= 6.59
TOTAL CONSERVATION AREA	= 103.94

SCALE: 1" = 400'
0 400 800
SCALE IN FEET

*** NOT A SURVEY ***

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:
JOHN P. MALONEY, P.S.M. #LS4493

WilsonMiller Stantec
3200 Bailey Ln., Suite 200, Naples, Florida 34105
Phone 239-649-4040 - Fax 239-643-5716 -Web-Site www.stantec.com
Certificate of Authorization #43 - Florida License #LC-C000170

DATE:	02/12
SCALE:	1"=400'
CLIENT:	COLLIER COUNTY PARKS AND RECREATION
DESCRIPTION:	SKETCH OF DESCRIPTION CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA
CROSS REF. FILE NO.:	4G-1367, 4G-1371
PROJECT NO. & WORK ORDER NO.	03259 215610771
SHEET NUMBER:	1 OF ___
FILE NO.:	2G-839

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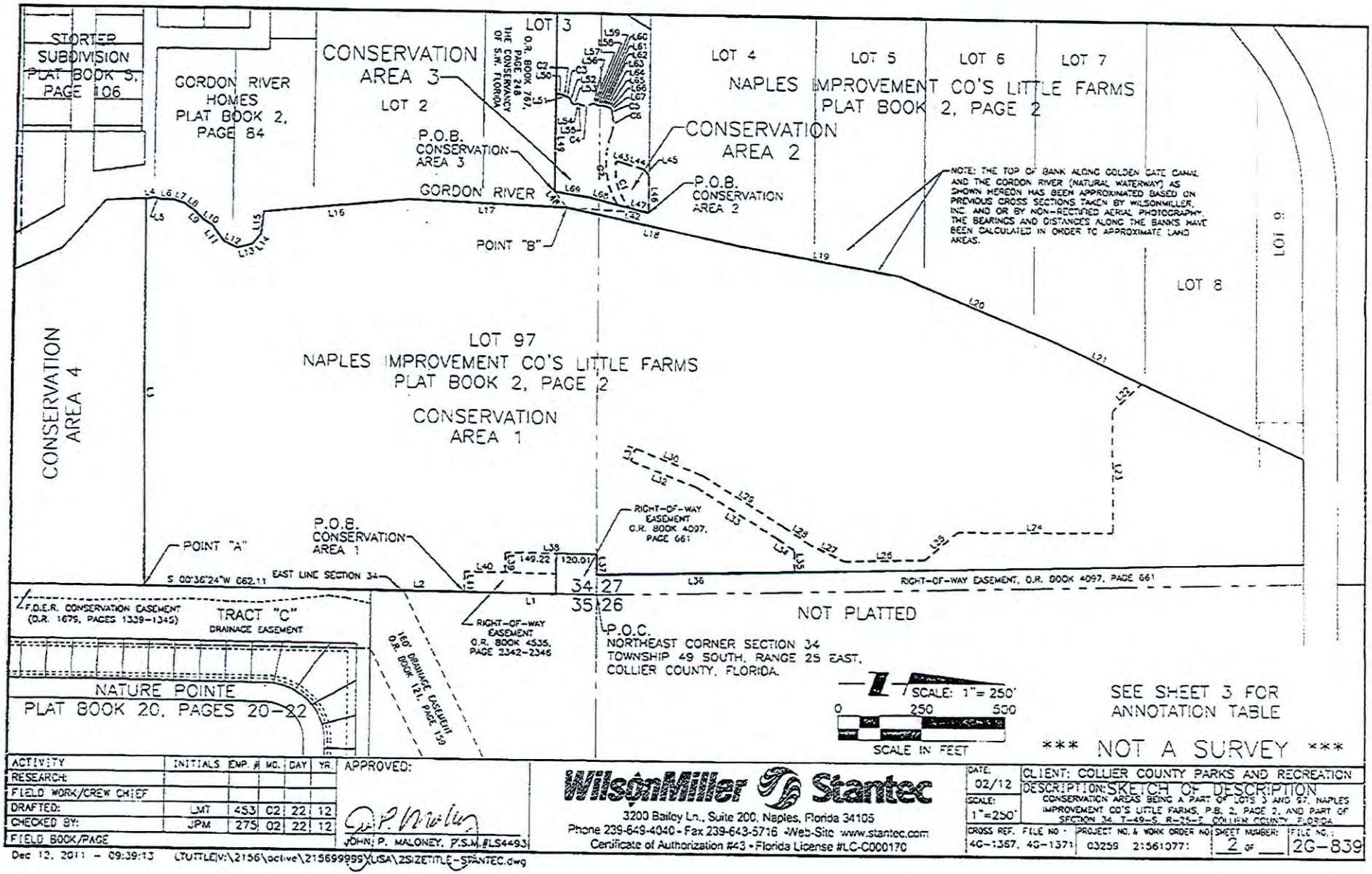
Exhibit 3.5
Application No. 110617-17
15 of 18



ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M. #LS4493

WilsonMiller Stantec
3200 Bailey Ln., Suite 200, Naples, Florida 34105
Phone 239-649-4040 - Fax 239-643-5716 - Web-Site www.stantec.com
Certificate of Authorization #43 - Florida License #LC-C000170

DATE:	02/12
SCALE:	1"=250'
CLIENT:	COLLIER COUNTY PARKS AND RECREATION
DESCRIPTION:	SKETCH OF DESCRIPTION CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA
CROSS REF. FILE NO.:	4G-1367, 4G-1371
PROJECT NO. & WORK ORDER NO.:	03259 21561077
SHEET NUMBER:	2 OF ___
FILE NO.:	2G-839

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Exhibit 3.5
Application No. 110617-17
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CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD DIST.
C1	47°26'04"	179.32	148.46	78.78	S72°29'12"W	144.26
C2	6°34'06"	38.00	4.36	2.18	N31°54'35"E	4.35
C3	45°56'06"	11.50	9.22	4.87	N05°39'29"E	8.97
C4	67°17'09"	38.00	44.63	25.29	N05°01'02"W	42.11
C5	23°05'14"	32.22	12.98	6.58	N85°29'43"E	12.89
C6	35°32'05"	100.00	62.02	32.04	N88°16'52"E	61.03
C7	50°52'18"	243.31	216.03	115.72	N84°03'01"E	209.01

LINE DATA

LINE	BEARING	DISTANCE
L1	S00°35'54"W	390.01
L2	S00°35'54"W	272.19
L3	S89°30'42"W	1150.59
L4	N06°35'53"W	27.14
L5	N18°26'38"E	14.90
L6	N00°00'00"E	37.70
L7	N19°02'05"E	36.15
L8	N35°46'04"E	36.30
L9	N45°00'53"E	36.67
L10	N31°41'50"E	30.57
L11	N53°40'09"E	58.81
L12	N24°43'09"E	42.34
L13	N14°06'34"W	47.07
L14	N49°41'48"W	37.43
L15	N83°36'45"W	67.00
L16	N05°29'23"W	425.38
L17	N02°15'40"E	465.17
L18	N11°44'08"E	533.83
L19	N09°52'42"E	481.50
L20	N22°13'57"E	494.19
L21	N25°21'04"E	297.36
L22	S43°48'06"E	119.68
L23	N89°29'59"E	368.52
L24	S00°11'13"E	461.26
L25	S39°45'16"E	128.55
L26	S01°14'14"E	241.06
L27	S25°19'28"W	115.53
L28	S33°52'59"W	87.82
L29	S32°02'14"W	289.41
L30	S21°33'08"W	216.41
L31	S68°26'52"E	40.00
L32	N21°33'08"E	212.74
L33	N32°02'14"E	285.10
L34	N33°52'59"E	59.68
L35	N88°45'46"E	64.81

LINE DATA

LINE	BEARING	DISTANCE
L36	S01°14'09"E	590.46
L37	S89°46'05"W	60.00
L38	S00°37'53"W	269.23
L39	S89°24'06"E	50.12
L40	S00°35'54"W	119.05
L41	S89°24'06"E	60.02
L42	N03°05'12"E	247.10
L43	N13°50'44"E	24.73
L44	N15°37'42"E	67.49
L45	N56°33'03"E	22.55
L46	N89°40'10"E	109.05
L47	S13°47'20"W	60.40
L48	S52°10'55"W	59.84
L49	S89°40'31"W	289.89
L50	N08°17'19"E	23.82
L51	N28°37'32"E	3.19
L52	N63°19'18"E	23.50
L53	N00°20'29"E	14.77
L54	N16°27'25"W	4.07
L55	N28°37'32"E	2.73
L56	N42°10'40"E	1.26
L57	N32°01'25"E	5.42
L58	N22°21'16"E	5.67
L59	N13°08'35"E	6.64
L60	N03°20'11"E	7.41
L61	N00°00'25"W	5.64
L62	N14°02'44"E	4.15
L63	N09°54'41"E	4.60
L64	N21°24'48"E	5.71
L65	N25°47'06"E	4.63
L66	N36°22'51"E	6.20
L67	N38°24'53"E	3.63
L68	S13°47'20"W	89.02
L69	S08°57'31"W	102.74

*** NOT A SURVEY ***

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M. #LS4493

WilsonMiller Stantec
3200 Bailey Ln., Suite 200, Naples, Florida 34105
Phone 239-649-4040 - Fax 239-643-5716 -Web-Site www.stantec.com
Certificate of Authorization #43 - Florida License #LC-C000170

DATE:	CLIENT: COLLIER COUNTY PARKS AND RECREATION
02/12	DESCRIPTION: SKETCH OF DESCRIPTION
SCALE: 1"=250'	CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 24, T-49-S, R-25-E, COLLIER COUNTY, FLORIDA
CROSS REF: FILE NO:	PROJECT NO. & WORK ORDER NO: 03259 215610771
SHEET NUMBER: 3 OF	FILE NO.: 2C-839

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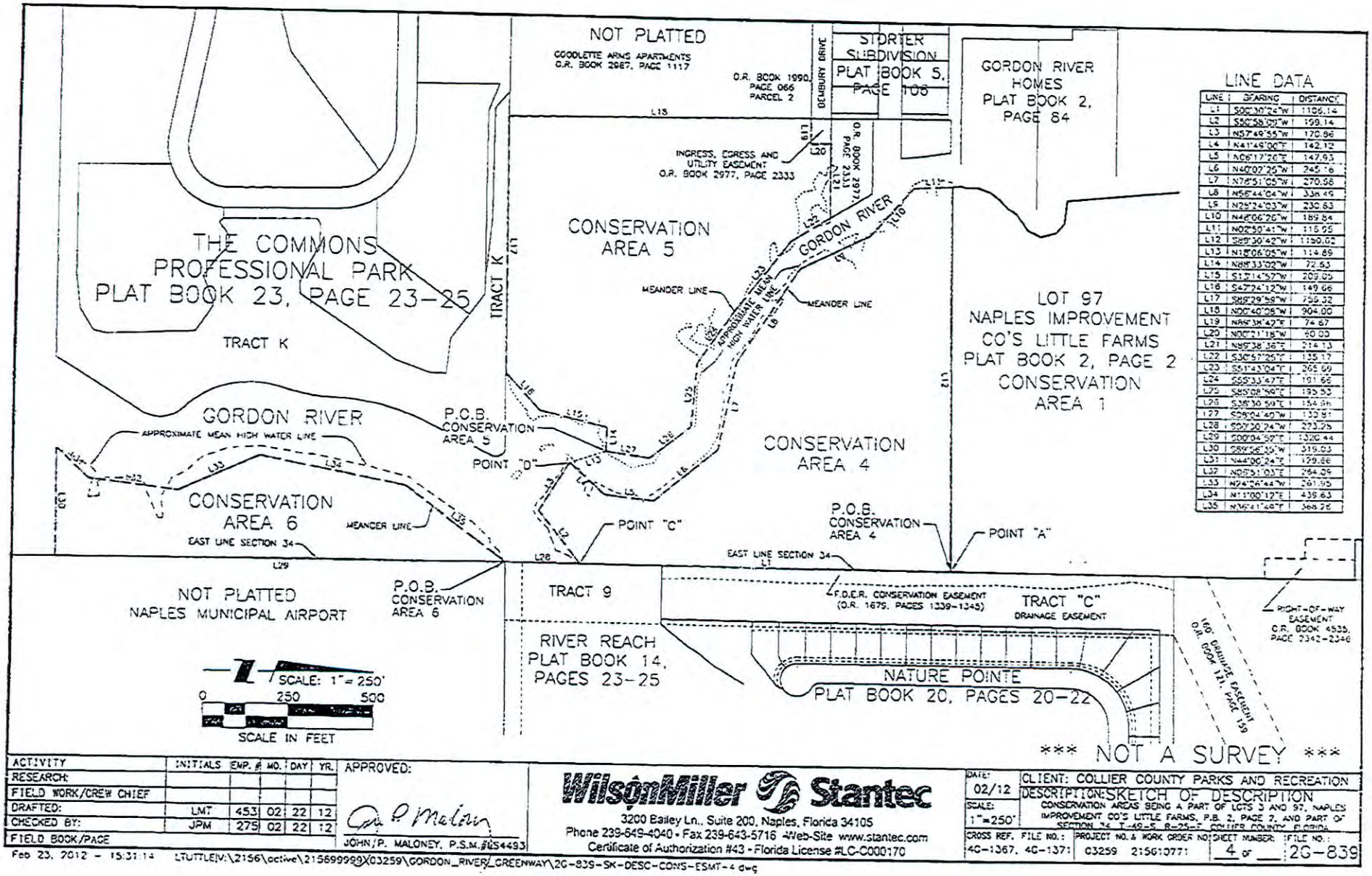
Exhibit 3.5
Application No. 110617-17
17 of 18



LINE DATA

LINE	BEARING	DISTANCE
L1	S0C°30'24"W	1106.14
L2	S5C°58'09"W	199.14
L3	N57°49'55"W	170.86
L4	N41°49'00"E	142.12
L5	N05°17'26"E	147.93
L6	N40°07'25"W	345.16
L7	N76°51'05"W	270.58
L8	N56°44'04"W	334.49
L9	N25°24'03"W	230.83
L10	N46°06'26"W	189.84
L11	N02°50'41"W	115.95
L12	S89°30'42"W	1150.05
L13	N15°06'05"W	114.89
L14	N88°33'02"W	72.53
L15	S13°14'57"W	209.05
L16	S47°24'12"W	149.66
L17	S89°29'58"W	756.32
L18	N00°40'08"W	904.00
L19	N89°34'42"E	74.67
L20	N00°21'18"W	60.00
L21	N89°38'36"E	214.13
L22	S30°57'26"E	135.17
L23	S51°43'04"E	265.69
L24	S55°33'47"E	191.66
L25	S85°08'59"E	195.53
L26	S38°30'59"E	154.94
L27	S29°04'40"W	139.91
L28	S00°30'24"W	273.25
L29	S00°04'59"E	1320.44
L30	S89°56'35"W	319.03
L31	N44°00'24"E	129.66
L32	N05°51'03"E	264.06
L33	N74°24'44"W	261.95
L34	N11°00'12"E	439.63
L35	N36°41'48"E	368.76

ACTIVITY	INITIALS	EMP. #	MO.	DAY	YR.
RESEARCH:					
FIELD WORK/CREW CHIEF					
DRAFTED:	LMT	453	02	22	12
CHECKED BY:	JPM	275	02	22	12
FIELD BOOK/PAGE					

APPROVED:

JOHN P. MALONEY, P.S.M. #LS4493

Feb 23, 2012 - 15:31:14 LTUTTLE|M:\2156\active\215699999\03259\GORDON_RIVER_GREENWAY\2G-839-SK-DESC-CONS-ESMT-4.dwg

WilsonMiller Stantec
3200 Bailey Ln., Suite 200, Naples, Florida 34105
Phone 239-649-4040 - Fax 239-643-5716 - Web-Site www.stantec.com
Certificate of Authorization #43 - Florida License #LC-C000170

DATE: 02/12	CLIENT: COLLIER COUNTY PARKS AND RECREATION
SCALE: 1"=250'	DESCRIPTION: SKETCH OF DESCRIPTION CONSERVATION AREAS BEING A PART OF LOTS 3 AND 97, NAPLES IMPROVEMENT CO'S LITTLE FARMS, P.B. 2, PAGE 2, AND PART OF SECTION 34, T.49-S, R.25-E, COLLIER COUNTY, FLORIDA
CROSS REF. FILE NO.: 4C-1367, 4C-1371	PROJECT NO. & WORK ORDER NO: 03259 215610771
SHEET NUMBER: 4 of ___	FILE NO.: 2G-839

Exhibit 3.5
Application No. 110617-17
18 of 18

SUBMERGED LANDS AND ENVIRONMENTAL RESOURCES
DELEGATION OF AUTHORITY

DELEGATION OF AUTHORITY NO. _____

Easement/Lease No. 41498

Application No. 110617-17

Environmental Resource Permit No. 11-03344-P

Action Taken: Approval of a fifty (50) year public easement to include a total of 3,192 square feet over sovereignty submerged lands (Gordon River/Golden Gate canal) for the installation and maintenance of two pedestrian bridges serving the residents of Collier County.

Applicant/Lessee: Collier County Parks and Recreation Department
C/O Tony Ruberto
3301 Tamiami Trail East
Naples, FL 34112

County /Location: Collier County, S34/ T49S/ R25E

Consideration: $581.00 paid for the public easement review

Staff Remarks: See attached staff report.

Review/Routing		Approved By	Date
1.	Environmental Reviewer	Karyn Allman	5/17/2012
2.	Environmental Supervisor	Laura Layman	
3.	Director of Natural Resource Management Division	Anita R. Bain	

Exhibit 3.6
Application No. 110617-17
1 of 1

Legal Description
(Public Easement, Submerged Land)

Being a 20-foot wide strip of submerged land that is lying within the limits of the Golden Gate Canal / Gordon River, Section 34, Township 49 South, Range 25 East, Collier County, Florida and which is more particularly described as follows:

Commencing at a 4" x 4" concrete monument (having a grid coordinate value of North (y) 667,378.51 and East (x) 399,308.46) that is marking the northeast corner of the above referenced Section 34; thence South 01° 25' 16" West, a distance of 2697.53 feet to the intersection of the mean high water line (elevation 0.5 feet (NAVD 88)) that is located along the easterly bank of the Golden Gate Canal / Gordon River. Said intersection is the **Point of Beginning** (having a grid coordinate value of North (y) 664,681.81 and East (x) 399,241.56) of a 20-foot wide strip of submerged land that is lying 10.00 feet on each side of the following described line; thence North 34° 07' 54" West, 159.59 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD)) along the westerly bank of said Golden Gate Canal / Gordon River and which intersection is the **Point of Terminus** (having a grid coordinate value of North (y) 664,813.91 and East (x) 399,152.01).

Containing 3,192 square feet or 0.07 acre, more or less.

Bearings and grid coordinates mentioned in this Legal Description are based upon the Florida State Plane Coordinate System, NAD 83 (North American Datum, 1983, Adjustment of 2007), Florida East Zone.

The source of horizontal and vertical control was the National Geodetic Survey (NGS) control point "Z 243 Reset" (PID AD8328).

"Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper."

Prepared by:
American Engineering Consultants of Marco Island, Inc. LB7419

06/14/11

T. Alan Neal, PLS
Professional Land Surveyor
State of Florida Reg.: LS4656

Date of Signing

SHEET 1 OF 2

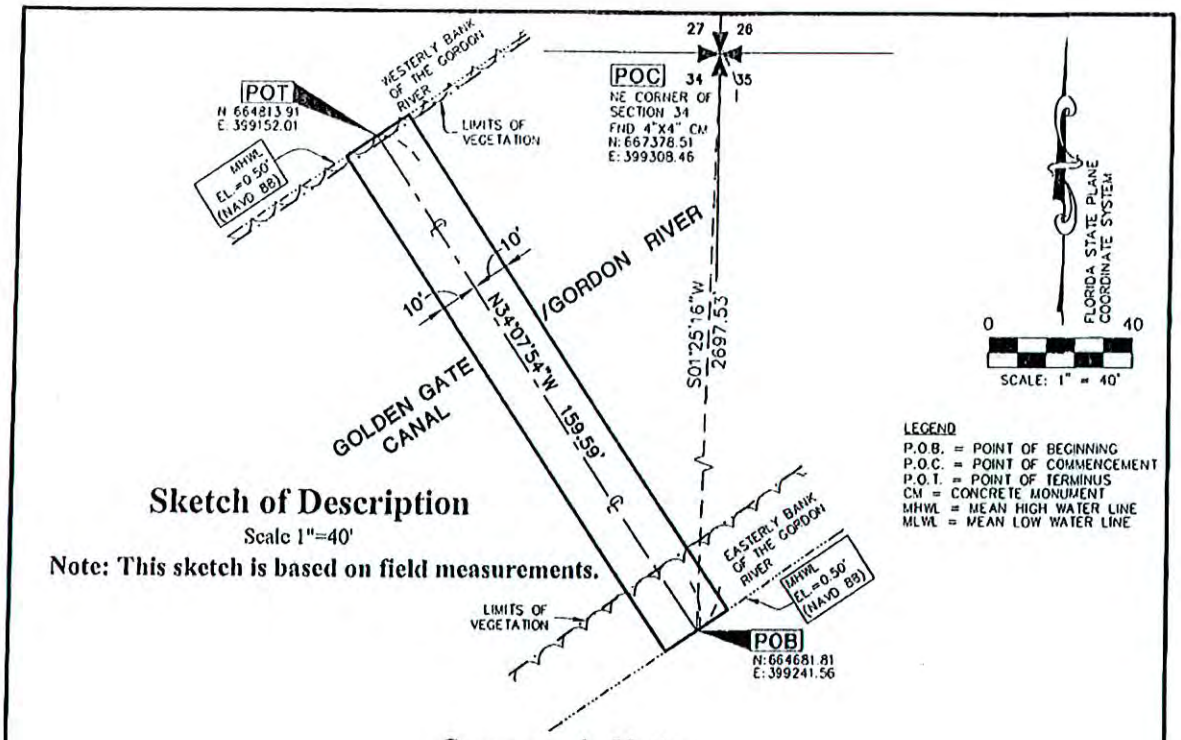
NOTE: SEE SHEET 2 OF 2 FOR SKETCH OF DESCRIPTION

LEGAL DESCRIPTION AND SKETCH OF DESCRIPTION
GOLDEN GATE CANAL/GORDON RIVER PUBLIC ESMT.
SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
NOT TO SCALE	6-8-2011	10620-003-03

Exhibit 3.7
Application No. 110617-17
1 of 6



Sketch of Description

Scale 1"=40'

Note: This sketch is based on field measurements.

Surveyor's Notes

1. All horizontal and vertical dimensions are in feet and decimals thereof.

2. The hereon Legal Description and Sketch of Description was prepared without the benefit of an abstract of title or title opinion; therefore it is subject to any easements, encumbrances, reservations, restrictions, right-of-ways, use, and other matters of title that may be found by a complete abstract of title opinion.

3. The hereon Legal Description and Sketch of Description are subject to any underground or not visible improvements.

4. Underground improvements, if any, have not been located.

5. Portions of the property described hereon maybe subject to the jurisdiction and restrictions of governmental agencies. The proper agencies should be contacted for the latest information prior to the use of the property.

6. The hereon Legal Description and Sketch of Description does not reflect or determine ownership.

SHEET 2 OF 2

THIS IS A SKETCH OF DESCRIPTION ONLY, NOT A BOUNDARY SURVEY

NOTE: SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTION)

SKETCH OF DESCRIPTION
GOLDEN GATE CANAL/GORDON RIVER PUBLIC ESMT.
SECTION 34, TOWNSHIP 49 SOUTH, RANGE 26 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
1"=40'	6-8-2011	10620-003-03

Exhibit 3.7
Application No. 110617-17
2 of 6

Legal Description
(Public Easement, Submerged Land)

Being a 22-foot wide strip of submerged land that is lying within the limits of the Gordon River, Section 27, Township 49 South, Range 25 East, Collier County, Florida and which is more particularly described as follows:

Commencing at a 4" x 4" concrete monument (having a grid coordinate value of North (y) 667,378.51 and East (x) 399,308.46) that is marking the southeast corner of the above referenced Section 27; thence North 83° 58' 26" West, a distance of 1101.60 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD 88)) that is located along the easterly bank of the Gordon River. Said intersection is the **Point of Beginning** (having a grid coordinate value of North (y) 667,494.16 and East (x) 398,212.95) of a 22-foot wide strip of submerged land that is lying 11.00 feet on each side of the following described line; thence North 90° 00' 00" West, 80.67 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD)) along the westerly bank of said Gordon River and which intersection is the **Point of Terminus** (having a grid coordinate value of North (y) 667,494.16 and East (x) 398,132.28).

Containing 1,778 square feet or 0.04 acre, more or less.

Bearings and grid coordinates mentioned in this Legal Description are based upon the Florida State Plane Coordinate System, NAD 83 (North American Datum, 1983, Adjustment of 2007), Florida East Zone.

The source of horizontal and vertical control was the National Geodetic Survey (NGS) control point "Z 243 Reset" (PID AD8328).

"Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper."

Prepared by:
American Engineering Consultants of Marco Island, Inc. LB7419

06/14/11

T. Alan Neal, PLS
Professional Land Surveyor
State of Florida Reg.: LS4656

Date of Signing

NOTE: SEE SHEET 2 OF 2 FOR SKETCH OF DESCRIPTION

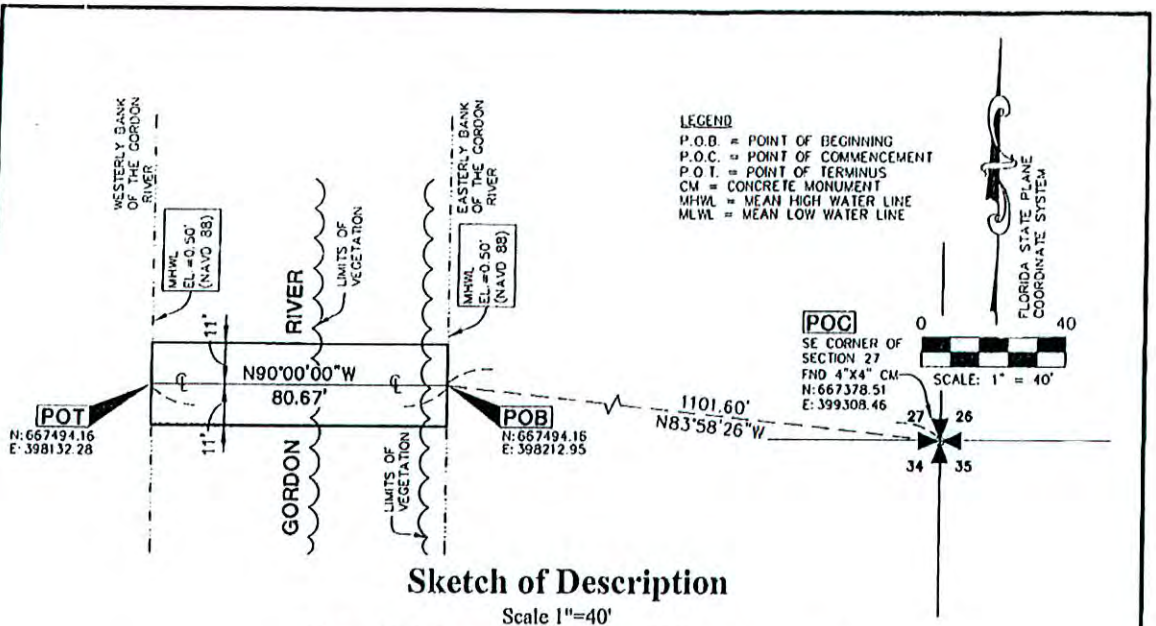
SHEET 1 OF 2

LEGAL DESCRIPTION AND SKETCH OF DESCRIPTION
GORDON RIVER PUBLIC ESMT.
SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
NOT TO SCALE	6-8-2011	10620-003-03

Exhibit 3.7
Application No. 110617-17
3 of 6



Sketch of Description

Scale 1"=40'

Note: This sketch is based on field measurements.

Surveyor's Notes

1. All horizontal and vertical dimensions are in feet and decimals thereof.

2. The hereon Legal Description and Sketch of Description was prepared without the benefit of an abstract of title or title opinion; therefore it is subject to any easements, encumbrances, reservations, restrictions, right-of-ways, use, and other matters of title that may be found by a complete abstract of title opinion.

3. The hereon Legal Description and Sketch of Description are subject to any underground or not visible improvements.

4. Underground improvements, if any, have not been located.

5. Portions of the property described hereon maybe subject to the jurisdiction and restrictions of governmental agencies. The proper agencies should be contacted for the latest information prior to the use of the property.

6. The hereon Legal Description and Sketch of Description does not reflect or determine ownership.

SHEET 2 OF 2

THIS IS A SKETCH OF DESCRIPTION ONLY, NOT A BOUNDARY SURVEY

NOTE: SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTION)

SKETCH OF DESCRIPTION
GORDON RIVER PUBLIC ESMT.
SECTION 27, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
1"=40'	6-8-2011	10620-003-03

Exhibit 3.7
Application No. 110617-17
4 of 6

Legal Description
(Public Easement, Submerged Land)

Being a 20-foot wide strip of submerged land that is lying within the limits of the Golden Gate Canal / Gordon River, Section 34, Township 49 South, Range 25 East, Collier County, Florida and which is more particularly described as follows:

Commencing at a 4" x 4" concrete monument (having a grid coordinate value of North (y) 667,378.51 and East (x) 399,308.46) that is marking the northeast corner of the above referenced Section 34; thence South 01° 25' 16" West, a distance of 2697.53 feet to the intersection of the mean high water line (elevation 0.5 feet (NAVD 88)) that is located along the easterly bank of the Golden Gate Canal / Gordon River. Said intersection is the **Point of Beginning** (having a grid coordinate value of North (y) 664,681.81 and East (x) 399,241.56) of a 20-foot wide strip of submerged land that is lying 10.00 feet on each side of the following described line; thence North 34° 07' 54" West, 159.59 feet to the intersection of the mean high water line (elevation 0.50 feet (NAVD)) along the westerly bank of said Golden Gate Canal / Gordon River and which intersection is the **Point of Terminus** (having a grid coordinate value of North (y) 664,813.91 and East (x) 399,152.01).

Containing 3,192 square feet or 0.07 acre, more or less.

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The source of horizontal and vertical control was the National Geodetic Survey (NGS) control point "Z 243 Reset" (PID AD8328).

"Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper."

Prepared by:
American Engineering Consultants of Marco Island, Inc. LB7419

T. Alan Neal, PLS — Date of Signing
Professional Land Surveyor
State of Florida Reg.: LS4656

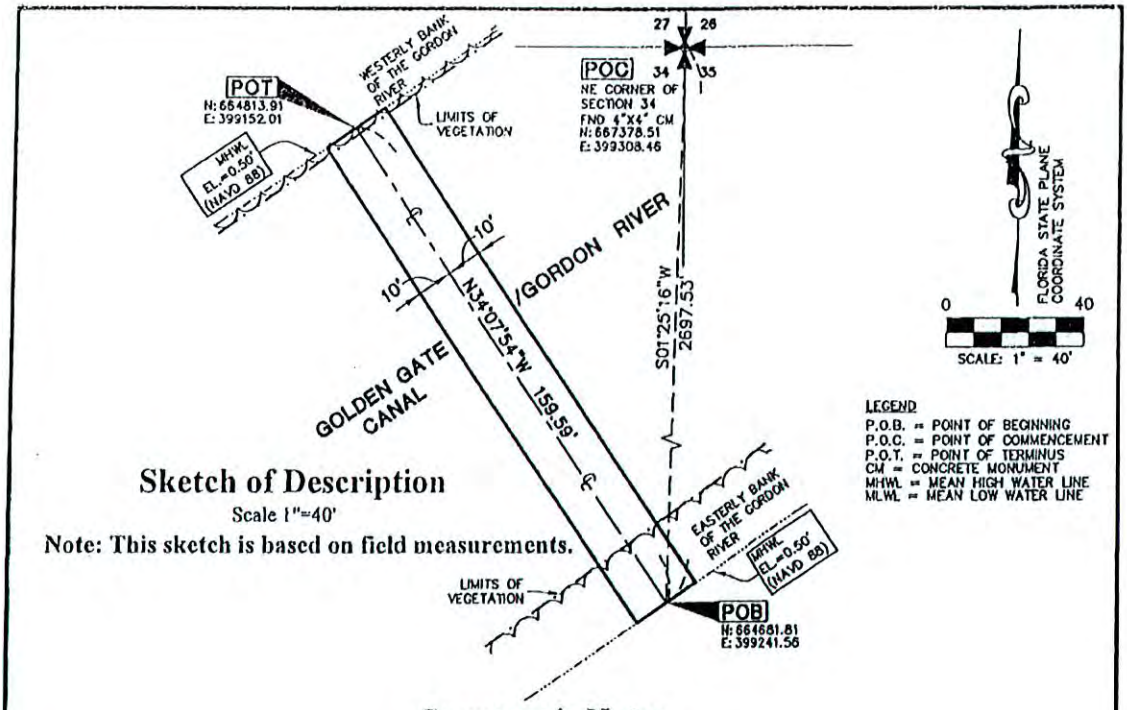
SHEET 1 OF 2

NOTE: SEE SHEET 2 OF 2 FOR SKETCH OF DESCRIPTION

LEGAL DESCRIPTION AND SKETCH OF DESCRIPTION
GOLDEN GATE CANAL/GORDON RIVER PUBLIC ESMT.
SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
NOT TO SCALE	6-8-2011	10620-003-03



Sketch of Description

Scale 1"=40'

Note: This sketch is based on field measurements.

Surveyor's Notes

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SHEET 2 OF 2

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NOTE: SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTION

SKETCH OF DESCRIPTION
GOLDEN GATE CANAL/GORDON RIVER PUBLIC ESMT.
SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST

AMERICAN ENGINEERING CONSULTANTS
OF MARCO ISLAND, INC.
CERTIFICATE OF AUTHORIZATION: #26446, LB# 7419
573 BALD EAGLE DR. MARCO ISLAND, FL. 34145 (239) 394-1697 (FAX) 394-7571

SCALE :	DATE :	JOB NUMBER :
1"=40'	6-8-2011	10620-003-03

Exhibit 3.7
Application No. 110617-17
6 of 6

Cardno ENTRIX
Shaping the Future

Cardno ENTRIX

22 Sarasota Center Blvd.
Sarasota, FL 34240
USA

Phone 941 378 0660
Toll-free 800 368 7511
Fax 941 378 0787
www.cardno.com

www.cardnoentrix.com

Collier County
Gordon River Greenway Park
Turbidity Monitoring Plan

Turbidity and Erosion Control Installation

Collier County's contractor or a designee will be responsible for the placement of turbidity and erosion control devices on the project site, including areas of proposed in-water work. All in-water control measures will be placed so as to not present a potential entanglement threat to manatees and in a manner that does not block access within the Gordon River or Golden Gate Canal. All turbidity and erosion control devices will be regularly inspected and maintained in accordance with the project's National Pollution Discharge Elimination System (NPDES) permit and state regulations. At a minimum, turbidity and erosion control devices on the project will be checked at least weekly and after any one-half inch rainfall event. Control devices for in-water work will be checked immediately prior to the initiation of work each day and continually monitored during the in-water activities.

Sampling Locations

Turbidity monitoring will be conducted at the locations of all in-water work for the Gordon River Greenway Park. The approximate locations of the turbidity sampling stations are depicted on the attached aerial. Monitoring for turbidity will be conducted at four stations. Three monitoring stations will be located in the Gordon River: (1) adjacent to the dredged area to connect the kayak launch to the river (inside the floating turbidity curtains), (2) no more than 100 feet upstream of any in-water work for the launch channel and bridge, and (3) no more than 100 feet downstream of the construction activities (outside the floating turbidity curtains). Two sampling stations, each no more than 100 feet upstream or downstream of in-water work areas, will be located in the Golden Gate Canal adjacent to the bridge. Samples will be collected on a daily basis when in-water work is planned; one hour before construction starts, every four hours during construction or any in-water work, and one hour after construction ceases. Additional sampling shall be performed when the contactor determines that there may be non-compliance with water quality standards. Once the in-water construction is completed, samples will continue to be collected on a daily basis at the sampling points until the turbidity is no longer present in which case the barriers can be removed.

Australia • Belgium • Canada • Ecuador • Indonesia • Kenya • New Zealand • Papua New Guinea
Peru • United Arab Emirates • United Kingdom • United States • Operations in 70 countries

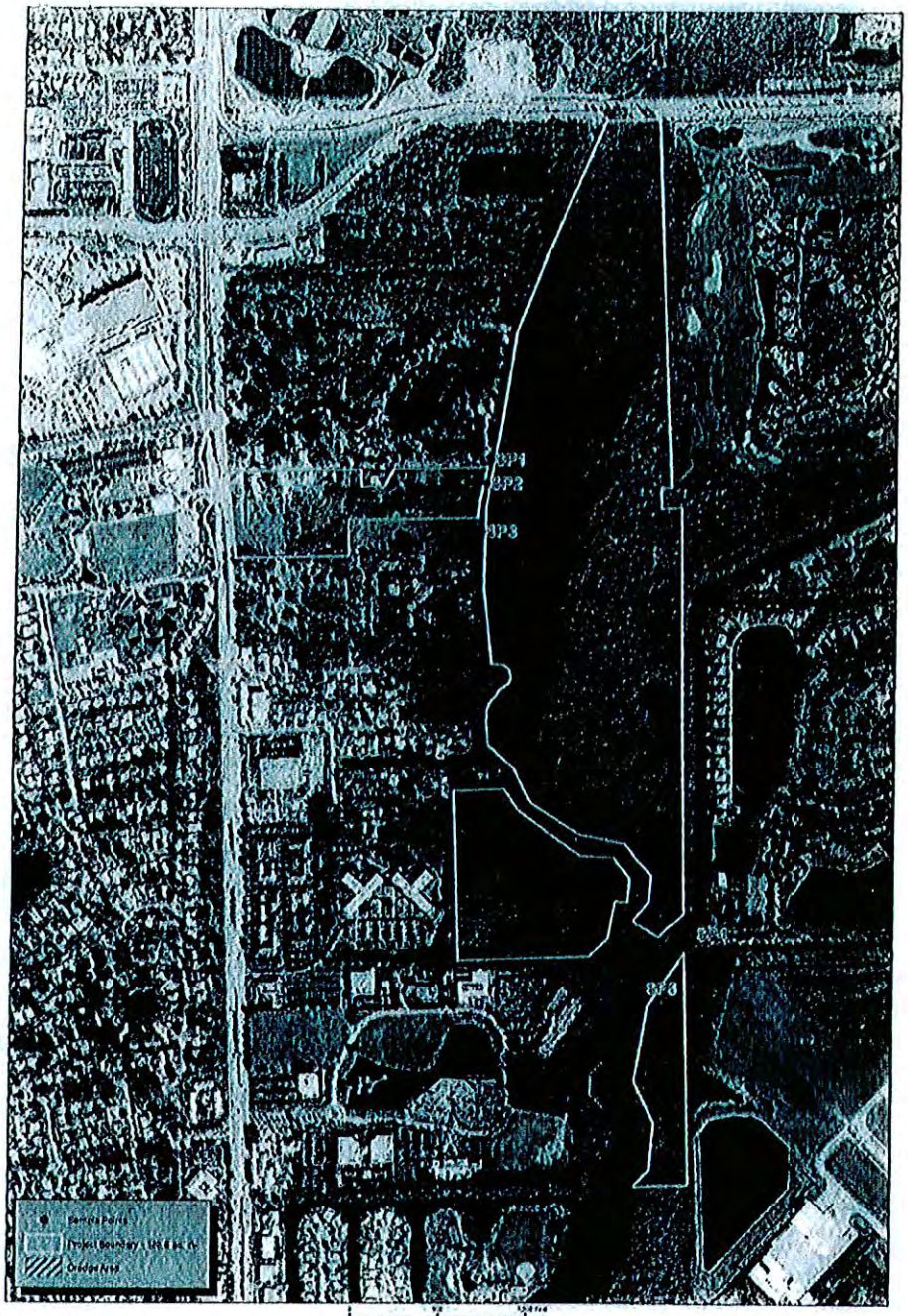
Cardno ENTRIX
Shaping the Future

Contingency Plan

The applicant is proposing that whenever the water quality samples exceed 29 NTUs over background ambient water quality outside of the turbidity control measures that all construction activities will cease immediately. The violation will be immediately reported to the Big Cypress Basin Service Center Regulation Department of the South Florida Water Management District, attention Environmental Section at (239) 263-7615. The violation report will include the description of the corrective actions being taken or proposed to be taken. Construction activities will not resume until a set of samples has been taken which demonstrate compliance with the state turbidity standard. If violations are noted after normal business hours, on holidays or on weekends, the report shall be made as soon as normal business hours resume. A copy of all monitoring data sheets or logbook sheets, which indicate violations, shall be forwarded immediately to the Environmental Section.

Australia • Belgium • Canada • Ecuador • Indonesia • Kenya • New Zealand • Papua New Guinea
Peru • United Arab Emirates • United Kingdom • United States • Operations in 70 countries

Exhibit 3.8
Application No. 110617-17
2 of 3



Turbidity Map
Gordon River Greenway Park
Collier County, FL

Exhibit 3.8
Application No. 110617-17
3 of 3

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southeast Regional Office
263 13th Avenue South
St. Petersburg, FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.

b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.

c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.

d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.

e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.

f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.

g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006
O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc

Exhibit 3.9
Application No. 110617-17
1 of 3

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK
2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

Exhibit 3.9
Application No. 110617-17
2 of 3

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

Exhibit 3.9
Application No. 110617-17
3 of 3

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE

1. An eastern indigo snake protection/education plan shall be developed by the applicant or requestor for all construction personnel to follow. The plan shall be provided to the Service for review and approval at least 30 days prior to any clearing activities. The educational materials for the plan may consist of a combination of posters, videos, pamphlets, and lectures (*e.g.*, an observer trained to identify eastern indigo snakes could use the protection/education plan to instruct construction personnel before any clearing activities occur). Informational signs should be posted throughout the construction site and along any proposed access road to contain the following information:

    a. a description of the eastern indigo snake, its habits, and protection under Federal Law;
    b. instructions not to injure, harm, harass or kill this species;
    c. directions to cease clearing activities and allow the eastern indigo snake sufficient time to move away from the site on its own before resuming clearing; and,
    d. telephone numbers of pertinent agencies to be contacted if a dead eastern indigo snake is encountered. The dead specimen should be thoroughly soaked in water and then frozen.

2. If not currently authorized through an Incidental Take Statement in association with a Biological Opinion, only individuals who have been either authorized by a section 10(a)(1)(A) permit issued by the Service, or by the State of Florida through the Florida Fish Wildlife Conservation Commission (FWC) for such activities, are permitted to come in contact with an eastern indigo snake.

3. An eastern indigo snake monitoring report must be submitted to the appropriate Florida Field Office within 60 days of the conclusion of clearing phases. The report should be submitted whether or not eastern indigo snakes are observed. The report should contain the following information:

    a. any sightings of eastern indigo snakes and
    b. other obligations required by the Florida Fish and Wildlife Conservation Commission, as stipulated in the permit.

Revised February 12, 2004

Exhibit 3.10
Application No. 110617-17
1 of 1

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE

1. An eastern indigo snake protection/education plan shall be developed by the applicant or requestor for all construction personnel to follow. The plan shall be provided to the Service for review and approval at least 30 days prior to any clearing activities. The educational materials for the plan may consist of a combination of posters, videos, pamphlets, and lectures (*e.g.*, an observer trained to identify eastern indigo snakes could use the protection/education plan to instruct construction personnel before any clearing activities occur). Informational signs should be posted throughout the construction site and along any proposed access road to contain the following information:

    a. a description of the eastern indigo snake, its habits, and protection under Federal Law;
    b. instructions not to injure, harm, harass or kill this species;
    c. directions to cease clearing activities and allow the eastern indigo snake sufficient time to move away from the site on its own before resuming clearing; and,
    d. telephone numbers of pertinent agencies to be contacted if a dead eastern indigo snake is encountered. The dead specimen should be thoroughly soaked in water and then frozen.

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    a. any sightings of eastern indigo snakes and
    b. other obligations required by the Florida Fish and Wildlife Conservation Commission, as stipulated in the permit.

Revised February 12, 2004

Exhibit 3.11
Application No. 110617-17
1 of 1

STAFF REPORT DISTRIBUTION LIST

GORDON RIVER GREENWAY PARK

Application No: 110617-17

Permit No: 11-03344-P

INTERNAL DISTRIBUTION

X Carmen Quan, P.E.
X Karyn Allman
X Laura Layman
X Daniel F. Waters, P.E.
X A. Bain
X A. Waterhouse
X Bill Foley
X C. Tears
X ERC Engineering
X ERC Environmental
X Fort Myers Backup File
X Permit File
X R. Valera

EXTERNAL DISTRIBUTION

X Permittee - Collier County Board Of County Commissioners
X Agent - Kimley-Horn And Associates Inc
X Env Consultant - Cardno-Entrix
X Other Interested Party - Collier County Parks
X Previous Operating Entity - Collier County Board Of County Commissioners

GOVERNMENT AGENCIES

X Conservation Collier Alex Sulecki
X Div of Recreation and Park - District 4 - FDEP
X Florida Communities Trust Denise Rach

OTHER INTERESTED PARTIES

X Audubon of Florida - Charles Lee

Exhibit N

Interdepartmental Agreement
between
Collier County Parks and Recreation Department
Collier County Growth Management Division
And
Collier County Facilities Management Department
for Coordinated Management of
Freedom Park
(f.k.a. Gordon River Water Quality Park)

Background

Freedom Park is a 49.76-acre facility located on the northeast corner of Goodlette-Frank Road and Golden Gate Parkway. The land was purchased in 2005 and developed by the Collier County Stormwater Management Department Growth Management Division under a grant for Florida Communities Trust (FCT). The Collier County Facilities Management Department's Conservation Collier Program ("Conservation Collier") purchased the park's 12.5-acre Conservation Easement from GMD in 2008. Since Freedom Park is a multifaceted project that encompasses maintenance, education programs, monitoring, grant requirements, reporting and public access, several county departments have maintenance responsibilities.

The Collier County Parks and Recreation Department ("Parks"), GMD/Engineering and Construction Department, and Conservation Collier share management of the facility (See Exhibit A).

The below identified Departments are responsible for the following:

Growth Management Division/Engineering and Construction

- Maintenance and repair of Pump Stations 1 & 2
- Water control structure maintenance (pipes, pumps, water control structures)
- Exotic removal/maintenance and reporting to SFWMD annually for 27.5 acres of created and jurisdictional wetlands until October 31, 2013.
- Exotic removal/maintenance for 15 acres of ponds after October 31, 2013.
- Quarterly water quality monitoring and reporting to SFWMD

Conservation Collier

- Exotic removal/maintenance for 12.5 acres of jurisdictional wetlands after October 31, 2013.

Parks & Recreation

- FCT annual stewardship report
- Mowing and landscaping of 22.26 acres of uplands.
- Staffing, security, hours of operation.
- Education Programs.
- All other maintenance requirements within the park boundary will the responsibility of Parks and Recreation including utilities, landscaping, mowing, parking, gates, boardwalks, signage, etc.

Interdepartmental Billing
Any work performed by other departments, such as, Facilities and IT will be handled by Parks & Recreation.

Interpretation and/or Amendment of Terms
Any future amendments to the Interdepartmental Agreement will be approved by the Division Administrators.

Steve Carnell, Acting Administrator
Public Services Division

6/7/12
Date

Len Golden Price, Administrator
Administration Services Division

6/7/12
Date

Nick Casalanguida, Administrator
Growth Management Division

6-7-12
Date

Exhibit A

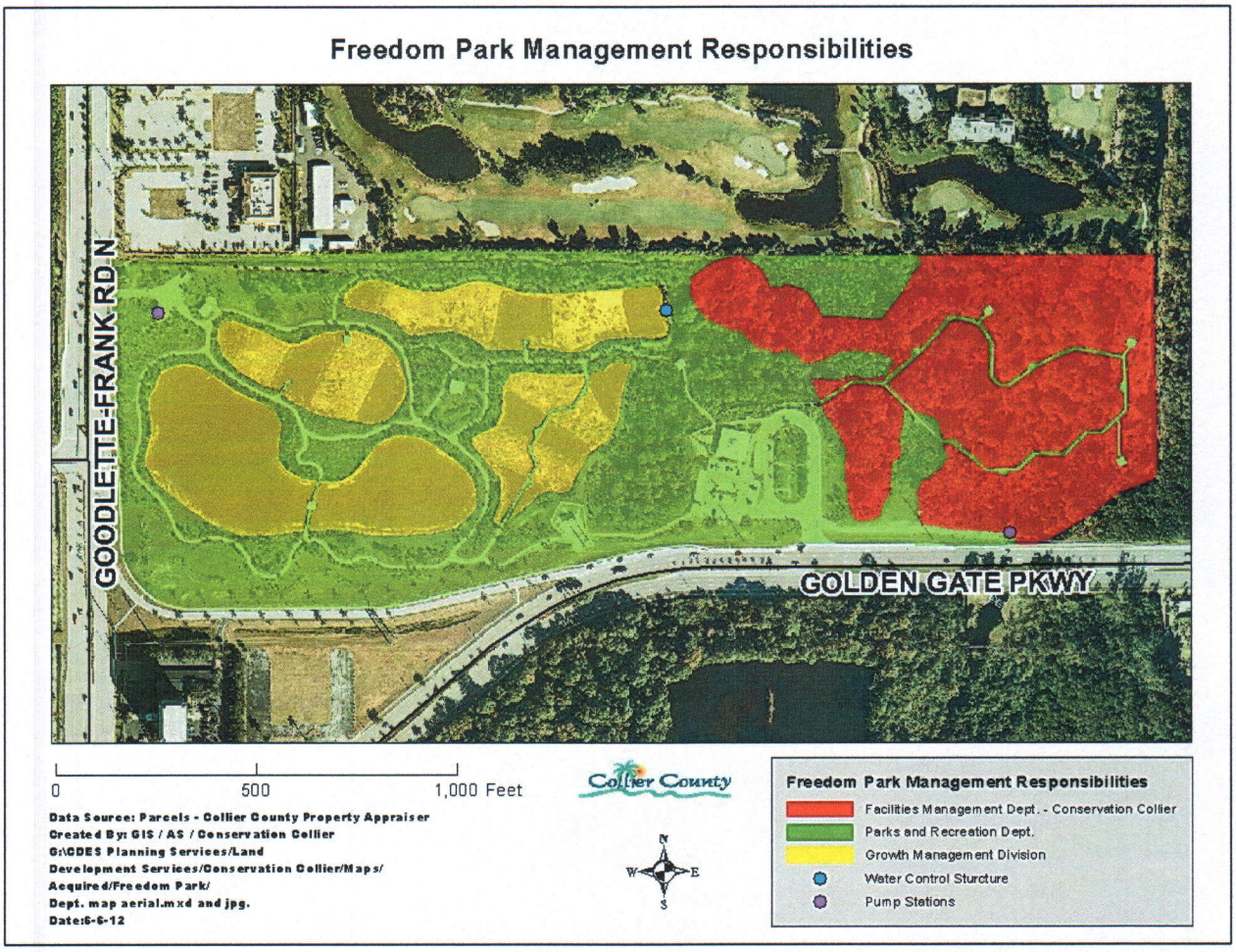

Freedom Park Management Responsibilities
GOODLETTE-FRANK RD N
GOLDEN GATE PKWY
0
500
1,000 Feet
Collier County
Data Source: Parcels - Collier County Property Appraiser
Created By: GIS / AS / Conservation Collier
G:\CDES Planning Services/Land Development Services/Conservation Collier/Maps/Aequired/Freedom Park/Dept. map aerial.mxd and jpg.
Date:6-6-12
N
W
E
S
Freedom Park Management Responsibilities
Facilities Management Dept. - Conservation Collier
Parks and Recreation Dept.
Growth Management Division
Water Control Sturcture
Pump Stations

Exhibit O

4.02.06 Standards for Development in Airport Zones

A. There are hereby created and established certain surfaces which include all of the land lying beneath the approach, transitional, primary, horizontal, and conical surfaces as they apply to a particular **airport**. Such zones are shown on the Naples Municipal, Marco Island Executive, Everglades City, and Immokalee Regional **Airport** zoning maps and declared to be made a part of this LDC. An area located in more than one of the described zones is considered to be only in the zone with the most restrictive height limitation.

B. Primary surface. An area longitudinally aligned along the runway centerline, extending 200 feet beyond each end of the runway with the width so specified for each runway for the most precise approach existing or planned for either end of the runway.

C. Primary surface height. No **structure** or obstruction will be permitted within the primary surface area that is not part of the landing and takeoff area and is of greater height than the nearest point on the runway centerline with the exception of FAA approved navigation aids.

D. The width of each primary surface is as follows:

Table 6. Primary Surface Width

Airports	Runway	Type	Width (feet)
Naples Municipal	14-32	Other than utility/non-precision instrument	500
	5-23	Other than utility/precision instrument	1,000
Marco Island Executive Airport	17-35	Other than utility/non-precision instrument	500
Everglades City Airpark	15-33	Utility/Visual	250
Immokalee Regional Airport	9-27	Other than utility/ precision instrument	1,000
	18-36	Other than utility/non-precision instrument	500
	4-22	Utility/Visual	250

E. Horizontal zone. A horizontal plane 150 feet above the established **airport** elevation, the perimeter of which is constructed by swinging arcs for specified radii from the center of each end of the primary surface of each runway of each **airport** and connecting the **adjacent** arcs by lines tangent to those arcs. The radius of each arc is as follows:

Table 7. Horizontal Zone Radius

Airports	Runway	Type	Radius (feet)
Naples Municipal	14-32	Other than utility/non-precision instrument	10,000
	5-23	Other than utility/ precision instrument	10,000
Marco Island Executive Airport	17-35	Other than utility/non-precision instrument	10,000
Everglades City Airpark	15-33	Utility/Visual	5,000
Immokalee Regional Airport	9-27	Other than utility/ precision instrument	10,000
	18-36	Other than utility/non-precision instrument	10,000
	4-22	Utility/Visual	5,000

F.

Exhibit O

Horizontal zone height. No **structure** or obstruction will be permitted in the horizontal zone that has a height greater than 150 feet above the **airport** height.

G. Conical zone. The conical zone is the area extending outward and upward from the periphery of the horizontal zone for a distance of 4,000 feet. Height limitations for **structures** in the conical zone are 150 feet above **airport** height at the inner boundary with permitted height increasing one (1) foot vertically for every twenty (20) feet of horizontal distance measured outward from the inner boundary to a height of 350 feet above **airport** height at the outer boundary.

H. Approach zone. The approach zone is an area longitudinally centered on the extended runway centerline and extending outward and upward from each end of the primary surface. An approach zone is designated for the end of each runway based upon the type of approach available or planned for that runway end.

1. *Approach zone width.* The inner edge of the approach zone is the same width as the primary surface. The outer width of the approach zone is prescribed for the most precise approach existing or planned for that runway end expanding uniformly to the following widths:

Table 8. Approach Zone Width (feet)

Airports	Runway	Type	Width
Naples Municipal	14-32	Other than utility/non-precision instrument	3,500
	5	Other than utility/precision instrument	16,000
	23	Other than utility/precision instrument	16,000
Marco Island Executive Airport	17-35	Other than utility/non-precision instrument	3,500
Everglades City Airpark	15-33	Utility/visual	1,250
Immokalee Regional Airport	9	Other than utility/precision instrument	16,000
	27	Other than utility/non-precision instrument	3,500
	18	Other than utility/non-precision instrument	3,500
	36	Other than utility/visual	1,500
	4-22	Utility/visual	1,250

2. *Approach zone lengths.* The approach zone extends for the applicable horizontal distance as follows:

Table 9. Approach Zone Length (feet).

Airports	Runway	Type	Length
Naples Municipal	14-32	Other than utility/non-precision instrument	10,000
	5	Other than utility/non-precision instrument	10,000
	23	Other than utility/non-precision instrument	50,000
Marco Island Executive Airport	17-35	Other than utility/non-precision instrument	10,000
Everglades City Airpark	15-33	Utility/visual	5,000
Immokalee Regional Airport	27	Other than utility/non-precision instrument	10,000
	9	Other than utility/precision instrument	50,000
	18	Other than utility/non-precision instrument	10,000
	36	Other than utility/visual	5,000
	4-22	Utility/visual	5,000

3.

Exhibit O

Approach zone height. Permitted height limitation within the approach zone shall not exceed the runway end height at the inner edge and increases uniformly with horizontal distance outward from the inner edge as follows:

Table 10. Approach Zone Height.

Airports	Runway	Type	Height
Naples Municipal	14-32	Other than utility/non-precision instrument	34:1
	5	Other than utility/precision instrument	50:0/40:1
	23	Other than utility/precision instrument	50:1/40:1
Marco Island Executive Airport	17-35	Other than utility/non-precision instrument	20:1
Everglades City Airpark	15-33	Utility/visual	20:1
Immokalee Regional Airport	9	Other than utility/non-precision instrument	50:1/40:1
	27	Other than utility/non-precision instrument	34:1
	18	Other than utility/non-precision instrument	34:1
	36	Other than utility/visual	20:1
	4-22	Utility/visual	20:1

4. *Precision instrument runway(s).* One (1) foot vertically for every fifty (50) feet horizontally for the first 10,000 feet, increasing to one (1) foot vertically for every forty (40) feet horizontally for additional 40,000 feet.
5. *Non-precision instrument runways.* One (1) foot vertically for every thirty-four (34) feet horizontally.
6. *Visual runways.* One (1) foot vertically for every twenty (20) feet horizontally.

I. Transitional zones. The area extending outward from the sides of the primary surface and approach zones connecting them to the horizontal zone or for a horizontal distance of 5,000 feet from the side of the part of the precision approach zone that extends beyond the conical zone. Height limits within the transitional zone are the same as the primary surface or approach zone at the boundary line where it adjoins and increases at a rate of one (1) foot vertically for every seven (7) feet horizontally, with the horizontal distance measured at right angles to the runway centerline and extended centerline until the height matches the height of the horizontal zone or for a horizontal distance of 5,000 feet from the side of the part of the precision approach zone that extends beyond the conical zone.

J. Heliport primary zones. The area of the primary zone coincides in size and shape with the designated take-off and landing area of a heliport. This surface is a horizontal plane at the established heliport elevation.

1. *Heliport approach zone.* The approach zone begins at each end of the heliport primary zone with the same width as the primary zone, and extends outward and upward for a horizontal distance of 4,000 feet where its width is 500 feet. The slope of the approach zone is eight (8) to one (1) (one (1) foot vertically for every eight (8) feet horizontally.)
2. *Heliport transitional zone.* These zones extend outward and upward from the lateral boundaries of the heliport primary zone and from the approach zone at a slope of two (2) to one (1) (one (1) foot vertically for every two (2) feet horizontally) for a distance of 250 feet measured horizontally from the centerline of the heliport primary and approach zone.

K. Other areas. In addition to the height limitations imposed in sections 4.02.06(E)-(H) above, no **structure** or obstruction will be permitted within Collier County that would cause a

Exhibit O

minimum obstruction clearance altitude (MOCA), a minimum descent altitude (MDA), decision height (DH), or a minimum vectoring altitude (MVA) to be raised nor which would impose either the establishment of restrictive minimum climb gradients or nonstandard takeoff minimums.

1. Except as expressly provided in these APO regulations, no **structure** or object of natural growth shall be erected, **altered**, allowed to grow, or be maintained to a height which exceeds the height of any zone created in these APO regulations.
2. Except as otherwise provided in these APO regulations, no **structure**, or object of natural growth shall be erected, **altered**, allowed to grow or be maintained, which is or would be an obstruction to air navigation within Collier County or of a height greater than any of the following:
   a. A height of 500 feet above ground level at the site of the object.
   b. A height that is 200 feet above ground level or above the established **airport** elevation, whichever is higher, within three (3) nautical miles of the established reference point of an **airport**, excluding heliports, with its longest runway more than 3,200 feet in actual length, and that height increases in the proportion of 100 feet for each additional nautical mile of distance from the **airport** up to a maximum of 500 feet.
   c. A height within a terminal obstacle clearance area, including an initial approach segment, a departure area, and a circling approach area, which would result in the vertical distance between any point on the object and an established minimum instrument flight altitude within that area or segment to be less than the required obstacle clearance. (Refer to FAR 77.23.(a.)(2)).

L. Exemptions. **Development** of the Marco Shores Golf Course Community that comports with the location and height requirements of Ordinance No. 81-6, as amended by Ordinance No. 85-56 and Ordinance No. 94-41, is exempted from the provisions of section 4.02.06 only to the following extent:

1. The agreement between Johnson Bay **Development** Corporation Collier County **Airport** Authority and the BCC, dated August 8, 1995.
2. Prior issuance of a Federal Aviation Administration "Determination Of No Hazard To Air Navigation."

M. **Airport** land use restrictions. Notwithstanding any other provision of this LDC, no use may be made of land or water within any zones established by this LDC in such a manner as to interfere with the operation of an airborne aircraft. The following special requirements shall apply to each permitted use:

1. All lights or illumination used in conjunction with **street**, parking, **signs**, or use of land or **structures** shall be arranged and operated in such a manner that it is not misleading to pilots or dangerous to aircraft operating from a public use **airport** or in the vicinity thereof.
2. All **flood** lights, spot lights, or any type of pulsating, flashing, rotating, or oscillating light shall be modified or prohibited if determined by the executive director who has authority over that public **airport** to be a possible risk to safety of aircraft operation.
3. No operations of any type shall produce smoke, glare, or other visual impairment to pilots within three (3) miles of any usable runway of a public **airport**.
4. No operations of any type shall produce electronic interference with navigation signals or radio communication between the **airport** and aircraft, or other air traffic control facility.
5.

Exhibit O

Land within runway clear zones (runway protection zones) shall be prohibited from use for high **density** residential use, schools, **hospitals**, storage of explosives, or flammable material, assemblage of large groups of people or any other use that could produce a major catastrophe as a result of an aircraft crash.

6. Based on the possibility that **solid waste** management facilities may attract birds, any **solid waste** management facility located so that it places the runways and/or approach and departure pattern of an **airport** between bird feeding, water, or roosting areas shall be considered as an incompatible use and is therefore prohibited in and around the **airports** in Collier County.
7. Any type of tethered dirigible, balloon, or other type of hovering or floating object the height of which exceeds the airspace notification limits outlined in section 4.02.06 E. shall be limited as provided in section 4.02.06 E.
8. No **structure** of any height, type or material shall be constructed or **altered** which could possibly cause interference to any **airport** surveillance radar system as determined by the Federal Aviation Administration, or by the executive director who has jurisdiction over the **airport** deemed to be effected.

N. Naples Municipal **Airport** noise zones, land use restrictions, sound level requirements (SLR) for **buildings** or **structures**, and SLR design requirements.

1. The purpose of this section 4.02.06 is to establish standards for land use and for sound level reduction requirements with respect to exterior noise resulting from the legal and normal operations at the **airports** within Collier County. This section establishes noise zones of differing intensities and land use in the vicinity of the Naples Municipal **airport**, as identified in the most recent Naples **airport** FAA Part 150 Study; establishes permitted land uses in the noise zones; establishes soundproofing requirements for residential **development** within the noise zones; and establishes notification procedures to prospective purchasers of real estate within the noise zones.
2. In addition to the prior three (3) noise zones, there is hereby created and established a fourth noise zone D; there are now noise zones A, B, C, and D. Such zones are shown on the Naples **Airport** noise zone map(s) which are incorporated and made a part herein and are described in section 4.02.06 N.3. below. The noise zones contained herein are based on a projection of future aircraft operations at the Naples Municipal **Airport**. The purpose of these noise zones is to define and set forth specific regulations for all properties within the described areas.
3. Noise zone boundaries.
   a. *Zone A.* That area commencing at the outermost boundary of the **airport** and extending outward therefrom to a boundary indicated on the noise zone map as "B." The outer contour of noise zone A approximates a noise level of seventy-five (75) Ldn.
   b. *Zone B.* That area commencing at the boundary indicated on the noise zone map as the outer boundary of noise zone A and extending outward therefrom to the boundary indicated on the noise zone map as "C." The outer contour of noise zone B approximates a noise level of seventy (70) Ldn.
   c. *Zone C.* That area commencing at the boundary indicated on the noise zone map as the outer boundary of noise zone B and extending outward therefrom to the boundary indicated on the noise zone map as "D". The outer contour of noise zone C approximates a noise level of sixty-five (65) Ldn.
   d.

Exhibit O

Zone D. This new noise zone commences at the boundary indicated on the noise zone map as the outer boundary of noise zone C and extending outward therefrom to the furthermost boundary indicated on the noise zone map. The outer contour of noise zone D approximates a noise level of sixty (60) Ldn and is the Naples **Airport** noise zone (This area is referenced in the 1996 Naples **Airport** FAA Part 150 Study).

4. Where boundaries of a described noise zone are shown to extend over a portion, but not all, of a platted **lot** or unsubdivided property, the owner or owners of the entire property will be notified of potential noise impact in accordance with notice procedures set forth in Chapter 10.
   a. Where boundaries of a described noise zone are shown to extend over a portion, but not all of a platted **lot** or un-subdivided property, the owner or owners of the entire property will be notified of potential noise impact in accordance with notice procedures set forth in Chapter 10.
   b. Where boundaries of more than one (1) described noise zone are shown on a platted **lot** or unsubdivided property, provisions of the most restricted zone shall apply.
5. Land use restrictions.
   a. *Permitted and restricted activities.* All land uses shall be permitted in the noise zone pursuant to the applicable zoning district and as provided in the activities and/or land use guidance chart made a part hereof. Those activities and land uses not specifically listed in the land use guidance chart are permitted or restricted in the noise zones based on their similarity to noise tolerance as exhibited by the activities and land uses which are listed in the guidance chart.
   b. ***Nonconforming uses.*** The regulations prescribed by this section shall not be construed to require the sound conditioning or other changes or **alteration** of any preexisting **structure** not conforming to this part as of the effective date of this section or to otherwise interfere with the continuance of any such preexisting **nonconforming** use. Nothing herein contained shall require any such change in the construction of or **alteration** of a **structure** which has commenced construction prior to the effective date of this section and which is diligently pursued.
6. Sound level requirements (SLR) for **buildings** or **structures**.
   a. The provisions of these APO special regulations shall apply to the construction, **alteration**, moving, demolition, repair, and use of any **building** or **structure** within unincorporated Collier County except work located primarily in a public **right-of-way**, on public utility **towers**, poles, and mechanical equipment not specifically regulated by these APOs. Additions, **alterations**, repairs, and changes of use in all **buildings** and **structures** shall comply with the provisions of these APOs.
   b. **Buildings** or **structures** constructed prior to the initial adoption of this amended section, to which additions, **alteration**, or repairs are made to the exterior walls and ceilings of rooms having one (1) or more exterior walls or ceilings shall be required to meet the SLR requirements of these APOs.
   c. **Alterations** or repairs which are nonstructural and do not affect the exterior walls or ceilings of an existing **building** or **structure** may be made with the same materials of which the **building** or **structure** is constructed and shall not be required to meet SLR requirements.

Exhibit O

d. **Buildings** in existence at the time of the initial adoption of these APOs may have their existing use or occupancy continued if such use or occupancy was legal at the time of the initial adoption of these APOs provided such continued use is not dangerous to life. A change in the use of a **structure** may require additional sound level reduction.

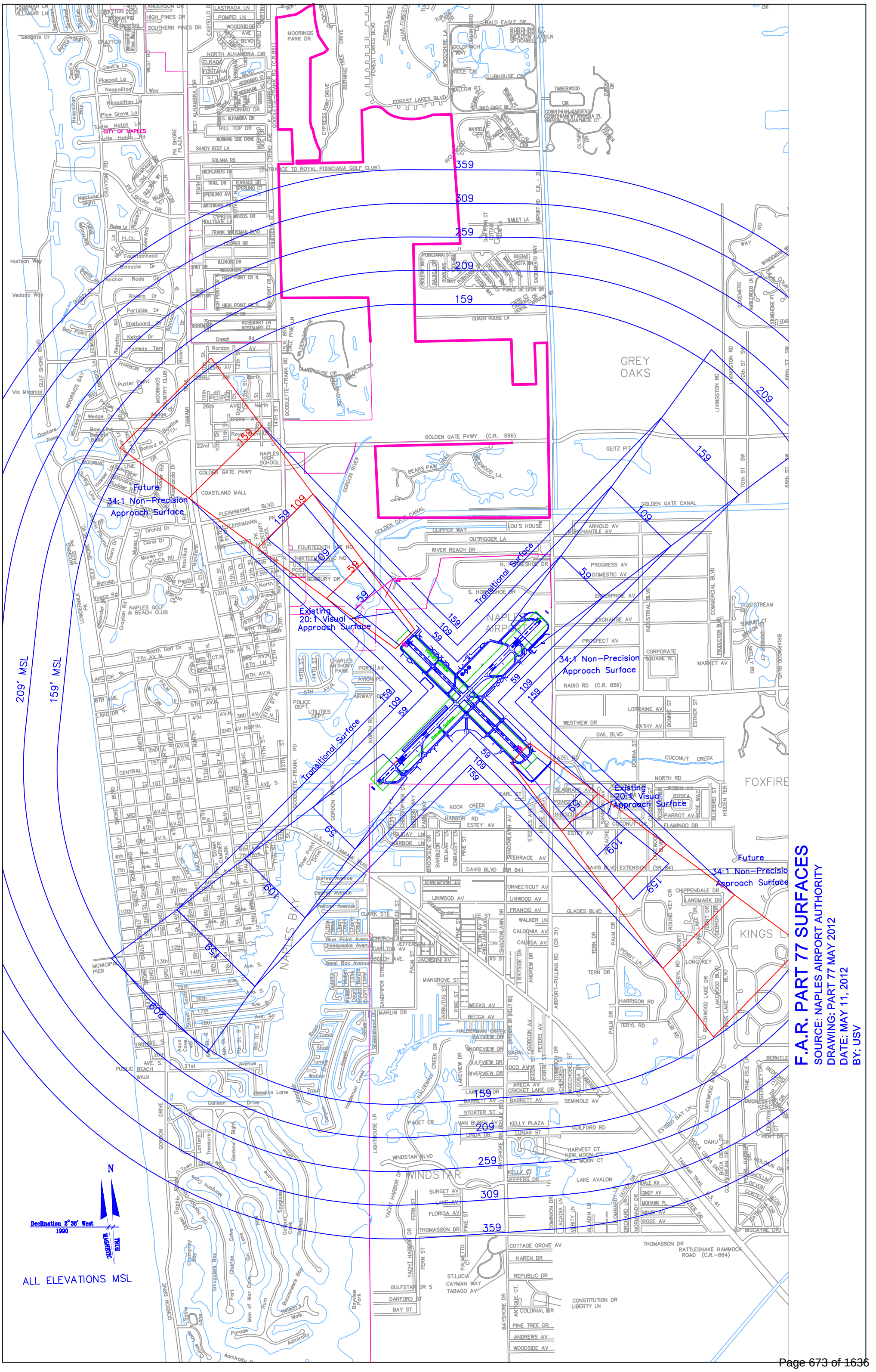
e. **Buildings** or **structures** moved into or within the vicinity of the established noise zone must comply with applicable provisions of these APOs.

f. The County Manger or his designee may approve any type construction that complies with the SLR requirements of the activities and/or land use guidance chart (appendix III of Appendix D). The SLR requirements specified in appendix III of Appendix D shall be achieved by the use of assemblies having the South Transmission Class Ratings specified in table 403.2, Minimum Sound Transmission of Assemblies, of the Southern Building Code Congress International, Inc., Standard for Sound Control, SSTD 8-87, incorporated herein and adopted by reference as appendix IV of appendix D.

g. The SLR requirements of the land use guidance chart at appendix III of Appendix D may be achieved by any suitable combination of **building** design, choice of **building** materials, and execution of construction details in accordance with established architectural and acoustical principles. The SLR requirements shall apply to the exterior walls and ceilings only of all rooms having one (1) or more exterior walls or ceilings. Regulations to achieve the SLR requirements specified in appendix III of Appendix D, shall be found in appendix IV of Appendix D and shall be used by the County Manger or his designee during the **building** plan review process.

h. No **building** or **structure** for which an SLR 25, SLR 30, or SLR 35 is required by appendix III of Appendix D may be constructed, **altered**, moved, demolished, or repaired unless and until a **building** permit has been issued. No such permit shall be issued unless and until the requirements contained in appendix III of Appendix D are met as indicated by plans and specifications for the **building** or **structure**. Such plans and specifications shall result in a sound level reduction for the applicable exterior walls and ceilings only of room(s) having one (1) or more exterior walls or ceilings, at least as great as the SLR value specified in appendix III of Appendix D for the particular usage involved. These plans and specifications shall be reviewed during the **building** plan review process in accordance with the sound transmission ratings specified in table 403.2 of appendix IV of Appendix D.

Exhibit P


F.A.R. PART 77 SURFACES
SOURCE: NAPLES AIRPORT AUTHORITY
DRAWING: PART 77 MAY 2012
DATE: MAY 11, 2012
BY: USV
209' MSL
159' MSL
Future 34:1 Non-Precision Approach Surface
Existing 20:1 Visual Approach Surface
Transitional Surface
34:1 Non-Precision Approach Surface
Existing 20:1 Visual Approach Surface
Future 34:1 Non-Precisio Approach Surface
359
309
259
209
159
109
59
CITY OF NAPLES
(ENTRANCE TO ROYAL POINCIANA GOLF CLUB)
GREY OAKS
NAPLES AIRPORT
FOXFIRE
KINGS L
Declination 2°36' West 1990
MAGNETIC
TRUE
N
ALL ELEVATIONS MSL

For more information on invasive exotic plants including links to related web pages, visit:

www.fleppc.org

FLEPPC List Definitions:

Exotic—a species introduced to Florida, purposefully or accidentally, from a natural range outside of Florida. **Native**—a species whose natural range includes Florida. **Naturalized exotic**—an exotic that sustains itself outside cultivation (it is still exotic; it has not "become" native).
Invasive exotic— an exotic that has not only naturalized, but is expanding on its own in Florida native plant communities.

Zone: N = north, **C** = central, **S** = south, Referring to each species' general distribution in regions of Florida (not its potential range in the state). Please refer to the map below.



Citation example:

FLEPPC. 2019 List of Invasive Plant Species. Florida Exotic Pest Plant Council. Internet: www.fleppc.org

The 2019 list was prepared by the FLEPPC Plant List Committee

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Richard P. Wunderlin, Professor Emeritus, University of South Florida, rwunder@usf.edu

Florida Exotic Pest Plant Council's 2019 List of Invasive Plant Species

*The mission of the **Florida Exotic Pest Plant Council** is to reduce the impacts of invasive plants in Florida through the exchange of scientific, educational, and technical information.*

Note: The FLEPPC List of Invasive Plant Species is not a regulatory list. Only those plants listed as Federal Noxious Weeds, Florida Noxious Weeds, Florida Prohibited Aquatic Plants, or in local ordinances are regulated by law.

Purpose of the List

To provide a list of plants determined by the Florida Exotic Pest Plant Council to be invasive in natural areas of Florida and routinely update the list based upon information of newly identified occurrences and changes in distribution over time. Also, to focus attention on:

- The adverse effects exotic pest plants have on Florida's biodiversity and native plant communities,
- The habitat losses in natural areas from exotic pest plant infestations,
- The impacts on endangered species via habitat loss and alteration,
- The need for pest plant management,
- The socio-economic impacts of these plants (e.g., increased wildfires or flooding in certain areas),
- Changes in the severity of different pest plant infestations over time,
- Providing information to help managers set priorities for research and control programs.

www.fleppc.org

CATEGORY I

Invasive exotics that are altering native plant communities by displacing native species, changing community structures or ecological functions, or hybridizing with natives. This definition does not rely on the economic severity or geographic range of the problem, but on the documented ecological damage caused.

Scientific Name	Common Name	Zone
Abrus precatorius	rosary pea	C, S
Acacia auriculiformis	earleaf acacia	C, S
Albizia julibrissin	mimosa, silk tree	N, C
Albizia lebbeck	woman's tongue	C, S
Ardisia crenata	coral ardisia	N, C, S
Ardisia elliptica	shoebutton ardisia	C, S
Asparagus aethiopicus	asparagus fern	N, C, S
Bauhinia variegata	orchid tree	C, S
Bischofia javanica	bishopwood	C, S
Calophyllum antillanum	Santa Maria	S
Casuarina equisetifolia	Australian-pine	N, C, S
Casuarina glauca	suckering Australian-pine	C, S
Cenchrus purpureus (*Pennisetum purpureum*)	elephantgrass, Napier grass	N, C, S
Cinnamomum camphora	camphor-tree	N, C, S
Colocasia esculenta	wild taro	N, C, S
Colubrina asiatica	latherleaf	S
Cupaniopsis anacardioides	carrotwood	C, S
Deparia petersenii	Japanese false spleenwort	N, C
Dioscorea alata	winged yam	N, C, S
Dioscorea bulbifera	air potato	N, C, S
Dolichandra unguis-cati (*Macfadyena unguis-cati*)	cat's-claw vine	N, C, S
Eichhornia crassipes	water-hyacinth	N, C, S
Eugenia uniflora	Surinam cherry	C, S
Ficus microcarpa[1]	laurel fig	C, S
Hydrilla verticillata	hydrilla	N, C, S
Hygrophila polysperma	green hygro	N, C, S
Hymenachne amplexicaulis	West Indian marsh grass	N, C, S
Imperata cylindrica	cogongrass	N, C, S
Ipomoea aquatica	water-spinach	C
Jasminum dichotomum	Gold Coast jasmine	C, S
Jasminum fluminense	Brazilian Jasmine	C, S
Lantana strigocamara[2]	lantana, shrub verbena	N, C, S
Ligustrum lucidum	glossy privet	N, C
Ligustrum sinense	Chinese privet	N, C, S
Lonicera japonica	Japanese honeysuckle	N, C, S
Ludwigia peruviana	Peruvian primrosewillow	N, C, S
Lumnitzera racemosa	black mangrove	S
Luziola subintegra	Tropical American watergrass	S
Lygodium japonicum	Japanese climbing fern	N, C, S
Lygodium microphyllum	Old World climbing fern	N, C, S
Manilkara zapota	sapodilla	S
Melaleuca quinquenervia	melaleuca, paper bark	C, S
Melinis repens	Natalgrass	C, S
Microsorum grossum[4]	serpent fern, wart fern	S
Microstegium vimineum	Japanese stiltgrass	N
Mimosa pigra	catclaw mimosa	C, S
Nandina domestica	heavenly bamboo, nandina	N, C
Nephrolepis brownii	Asian sword fern	C, S
Nephrolepis cordifolia	sword fern	N, C, S
Neyraudia reynaudiana	Burma reed	S
Nymphoides cristata	crested floatingheart	C, S
Paederia cruddasiana	sewer vine	S
Paederia foetida	skunk vine	N, C, S
Panicum repens	torpedograss	N, C, S
Pistia stratiotes	water-lettuce	N, C, S
Psidium cattleianum	stawberry guava	C, S
Psidium guajava	guava	C, S
Pueraria montana var. *lobata*	kudzu	N, C, S
Rhodomyrtus tomentosa	downy rose-myrtle	C, S
Ruellia simplex	Mexican petunia	N, C, S
Salvinia minima	water spangles	N, C, S
Scaevola taccada	beach naupaka, half-flower	N, C, S
Schefflera actinophylla	schefflera, umbrella tree	C, S
Schinus terebinthifolia	Brazilian pepper	N, C, S
Scleria lacustris	Wright's nutrush	C, S
Scleria microcarpa[*]	tropical nutrush	C, S
Senna pendula var. *glabrata*	Christmas senna, climbing cassia	C, S
Solanum tampicense	wetland night shade	C, S
Solanum viarum	tropical soda apple	N, C, S
Sporobolus jacquemontii	West Indian dropseed	C, S
Syngonium podophyllum	arrowhead vine	N, C, S
Syzygium cumini	Java plum	C, S
Tectaria incisa	incised halberd fern	S
Thelypteris opulenta	jeweled maidenhair fern	S
Thespesia populnea	seaside mahoe	C, S
Tradescantia fluminensis	small-leaf spiderwort	N, C
Tradescantia spathacea	oyster plant	C, S
Triadica sebifera (*Sapium sebiferum*)	Chinese tallow-tree	N, C, S
Urena lobata	Caesar's weed	N, C, S
Urochloa mutica	paragrass	N, C, S
Vitex rotundifolia	beach vitex	N

[1] Does not include *Ficus microcarpa* var. *fuyuensis*, which is sold as "green island ficus".

[2] Historically this non-native has been referred to as *Lantana camara,* a species not known to occur in Florida.

[3] Does not include the native endemic *Spermacoce neoterminalis.*

[4] *Microsorum grossum* has been previously misidentified as *Microsorum scolopendria.*

[*] Added to the FLEPPC List of Invasive Species in 2019.

Plant names are those published in the Atlas of Florida Plants (http://www.florida.plantatlas.usf.edu). For historical species nomenclature see "Guide to Vascular Plants of Florida Third Edition." Wunderlin and Hansen, University of Florida Press. 2011.

CATEGORY II

Invasive exotics that have increased in abundance or frequency but have not yet altered Florida plant communities to the extent shown by Category 1 species. These species may become Category 1 if ecological damage is demonstrated.

Scientific Name	Common Name	Zone
Adenanthera pavonina	red sandalwood	S
Agave sisalana	sisal hemp	C, S
Alstonia macrophylla	devil tree	S
Alternanthera philoxeroides	alligatorweed	N, C, S
Antigonon leptopus	coral vine	N, C, S
Ardisia japonica	Japanese ardisia	N
Aristolochia elegans (*Aristolochia littoralis*)	calico flower	N, C, S
Asystasia gangetica	Ganges primrose	C, S
Begonia cucullata	wax begonia	N, C, S
Broussonetia papyrifera	paper mulberry	N, C, S
Bruguiera gymnorrhiza	large-leafed mangrove	S
Callisia fragrans	Inch plant	C, S
Casuarina cunninghamiana	river sheoak	C, S
Cecropia palmata	trumpet tree	S
Cenchrus polystachios (*Pennisetum polystachios*)	mission grass	S
Cenchrus setaceus (*Pennisetum setaceum*)	fountain grass	S
Cestrum diurnum	day jessamine	C, S
Chamaedorea seifrizii	bamboo palm	S
Clematis terniflora	Japanese clematis	N, C
Cocos nucifera	coconut palm	S
Crassocephalum crepidioides	redflower ragleaf	C, S
Cryptostegia madagascariensis	Madagascar rubbervine	C, S
Cyperus involucratus	umbrella plant	C, S
Cyperus prolifer	dwarf papyrus	C, S
Dactyloctenium aegyptium	Durban crow's-foot grass	C, S
Dalbergia sissoo	Indian rosewood, sissoo	C, S
Dalechampia scandens[*]	spurge-creeper	S
Distimake tuberosus (*Merremia tuberosa*)	Spanish arbor vine, wood-rose	C, S
Dracaena hyacinthoides (*Sansevieria hyacinthoides*)	bowstring hemp	C, S
Elaeagnus pungens	silverthorn, thorny olive	N, C
Elaeagnus umbellata	autumn olive, silverberry	N
Epipremnum pinnatum cv. *'Aureum'*	pothos	C, S
Eulophia graminea	Chinese crown orchid	C, S
Ficus altissima	council tree, false banyan	S
Flacourtia indica	governor's plum	S
Hemarthria altissima	limpograss	C, S
Heteropterys brachtiata	redwing	S
Hyparrhenia rufa	jaragua	N, C, S
Ipomoea carnea subsp *fistulosa*	shrub morning-glory	C, S
Kalanchoe x houghtonii	mother of millions	N, C, S
Kalanchoe pinnata	life plant	C, S
Koelreuteria elegans subsp. *formosana*	flamegold tree	C, S
Landoltia punctata	spotted duckweed	N, C, S
Leucaena leucocephala	leadtree	N, C, S
Limnophila sessiliflora	Asian marshweed	N,C, S
Livistona chinensis	Chinese fan palm	C, S
Macroptilium lathyroides	wild bushbean	N, C, S
Melaleuca viminalis (*Callistemon viminalis*)	bottlebrush	C, S
Melia azedarach	Chinaberry	N, C, S
Melinis minutiflora	molasses grass	C S
Mikania micrantha	mile-a-minute vine	S
Momordica charantia	balsam-apple	N, C, S
Murraya paniculata	orange-jessamine	S
Myriophyllum spicatum	Eurasian water-milfoil	N, C, S
Passiflora biflora	twin-flowered passion vine	S
Phoenix reclinata	Senegal date palm	C, S
Phyllostachys aurea	golden bamboo	N, C
Pittosporum pentandrum	Taiwanese cheesewood	S
Platycerium bifurcatum	staghorn fern	S
Praxelis clematidea	praxelis	C
Pteris vittata	Chinese brake, ladder brake	N, C, S
Ptychosperma elegans	solitary palm	S
Richardia grandiflora	largeflower Mexican clover	N, C, S
Ricinus communis	castorbean	N, C, S
Rotala rotundifolia	dwarf rotala, roundleaf toothcup	S
Ruellia blechum	green shrimp plant	N, C, S
Sesbania punicea	rattlebox	N, C, S
Sida planicaulis	mata-pasto	C, S
Solanum diphyllum	twinleaf nightshade	N, C, S
Solanum torvum	turkey berry	N, C, S
Spermacoce verticillata[3]	shrubby false buttonweed	C, S
Sphagneticola trilobata	wedelia	N, C, S
Stachytarpheta cayennensis	nettle-leaf porterweed	S
Syagrus romanzoffiana	queen palm	C, S
Syzygium jambos	Malabar plum, rose-apple	N, C, S
Taliparitti tiliaceum	mahoe, sea hibiscus	C, S
Terminalia catappa	tropical-almond	C, S
Terminalia muelleri	Australian–almond	C, S
Tribulus cistoides	puncture vine, burr-nut	N, C, S
Urochloa maxima (*Panicum maximum*)	Guineagrass	N, C, S
Vernicia fordii	tung-oil tree	N, C, S
Vitex trifolia	simple-leaf chastetree	C, S
Washingtonia robusta	Washington fan palm	C, S
Wisteria sinensis	Chinese wisteria	N, C
Xanthosoma sagittifolium	malanga, elephant ear	N, C, S

APPENDIX A

Gordon River Greenway Preserve
Land Management Plan



Managed by: Conservation Collier Program

Collier County, Florida

June 2011 – June 2021 (10-yr plan)

Prepared by:

Conservation Collier Staff;

Collier County Facilities Management Department

Gordon River Greenway Preserve

Land Management Plan Executive Summary

Lead Agency: Collier County Board of County Commissioners, Conservation Collier Program

Property included in this Plan: "Gordon River Greenway Preserve" 43.54-acres. Preserve consists of one parcel in Section 34, Township 49, and Range 25 of Collier County, Florida.

Folio Number	Legal Description
00268160009	Appendix 1

Management Responsibilities:

Agency: Collier County - Conservation Collier Program

Designated Land Use: Conservation and natural resource based recreation

Unique Features: Mature mangrove forests; adjacent to Gordon River

Management Goals:

Goal 1: Remove or control populations of invasive, exotic or problematic flora and fauna

Goal 2: Develop a baseline monitoring report

Goal 3: Restore and maintain native habitats

Goal 4: Develop and implement a plan for public use

Goal 5: Facilitate uses of the site for educational purposes

Goal 6: Determine if prescribed fire and/or mechanical treatments are feasible to decrease woody invasion resulting from past fire exclusion; if so proceed

Goal 7: Provide a plan for security and disaster preparedness

Public Involvement: The Gordon River Greenway Preserve is one part of the larger Gordon River Greenway Project. Stakeholders from the City of Naples, The Naples Zoo, SW FL Land Preservation Trust, Naples Airport Authority, Conservancy of Southwest Florida, and Naples' Pathways Coalition, as well as other members of the general public, have been involved with the planning of the Greenway Project.

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Appendix 1: Legal Description

Appendix 2: South Florida Vegetation Classification Scheme Crosswalks for Plant Communities Observed on the Gordon River Greenway Preserve

Appendix 3: Preliminary Floristic Inventory of the Gordon River Greenway Preserve

Appendix 4: Florida Natural Areas Inventory (FNAI) Managed Area Tracking Record and Element Occurrence Summary; FNAI ranking system explanation

1.0 Introduction

The Gordon River Greenway Preserve is a 43.54-acre natural area within the boundary of an unincorporated area of Collier County, Florida, within is directly adjacent to the City of Naples. Native plant communities within the preserve include mangrove swamp, scrubby flatwoods, hardwood/coniferous/palm mixed, and mixed wetland hardwoods. The preserve is one part of the larger "Gordon River Greenway Project", which, when complete, will be a 2-mile ecological and trail corridor centrally located within the Naples-Collier urban area. The Gordon River Greenway Preserve and the Gordon River Greenway Park, directly to the north, are being designed, permitted, and constructed together as one County project. Public amenity features along the boardwalk will be consistent throughout the entire project. Certain aspects of the trail system, such as trail width, security lighting, and hours of operation will be determined by County officials, with input from the Conservation Collier Program, to ensure public safety and consistency throughout the project area.

A site assessment to determine compliance with Conservation Collier's initial screening criteria was conducted in May 2004 and the Conservation Collier Program purchased the property on April 7, 2006. The County holds a fee simple title to the Gordon River Greenway Preserve. The Conservation Collier program manages these lands under authority granted by Conservation Collier Ordinance 2002-63 as amended (2007-65; available from www.municode.com). Initial acquisition activities are summarized in Table 1.

Table 1: Acquisition History and Status of Gordon River Greenway Preserve

Year	Benchmark
2004	Property nominated to the Conservation Collier Program
2004	Initial Criteria Screening Report accepted by the Conservation Collier Land Acquisition Advisory Committee (CCLAAC)
2006	Purchase approved by the Board of County Commissioners (BCC) and lands purchased
2006	Interim Management Plan completed and approved by CCLAAC and BCC
2010	Final Management Plan completed. The Final Management Plan was delayed because the preserve was originally to be incorporated into the Gordon River Greenway Park Final Management Plan. However, complications related to the Greenway Park's Management Plan FCT grant requirements prompted Conservation Collier staff to draft a separate, stand-alone Final Management Plan for the Greenway Preserve.
2011	Final Management Plan approved by CCLAAC and BCC

Conservation, restoration and natural resource-based recreation are the designated uses of this preserve. Management activities allowed include those necessary to preserve, restore, secure and maintain this environmentally sensitive land for the benefit of present and future generations. Public use of the site must be consistent with these management goals.

This is the Final Management Plan for the Gordon River Greenway Preserve. This 10-year management plan will be submitted to the Collier County Board of County Commissioners (BCC) for its approval. When approved, this plan will replace the Interim Management Plan.

1.1 Conservation Collier: Land Acquisition Program and Management Authority

The Conservation Collier program was originally approved by voters in November 2002 and subsequently confirmed in the November 2006 ballot referendum. Both voter-approved referendums enable the program to acquire, preserve, restore, and maintain vital and significant threatened natural lands, forest, upland and wetland communities located in Collier County, Florida (Ordinance 2002-63, as amended). Properties must support at least two of the following qualities to qualify for consideration: rare habitat, aquifer recharge, flood control, water quality

protection, and listed species habitat. The BCC appointed a Land Acquisition Advisory Committee to consider any selected or nominated properties that an owner has indicated a willingness to sell. The Committee recommends property purchases for final approval by the BCC.

Lands acquired with Conservation Collier funds are titled to "COLLIER COUNTY, a political subdivision of the State of Florida, by and through its Conservation Collier program." The BCC established the Conservation Collier Program to a lands. As such, Conservation Collier holds management authority for the Gordon River Greenway Preserve.

1.2 Purpose and Scope of Plan

The purpose of the plan is to provide management direction for Gordon River Greenway Preserve by identifying the goals and objectives necessary to eliminate or minimize any threats to the resources and integrity of the preserve. This text is a working document that establishes the foundation of the ten-year plan by identifying the appropriate management techniques necessary to restore and preserve the resource.

This plan will balance resource restoration and protection with natural resource-based recreational and educational use while looking at restoration needs, listed species protection and maintenance of the site free of invasive, exotic plant and animal species. This plan is divided into sections that incorporate an introduction, descriptions of the natural and cultural resources, projected uses of the property, management issues, and goals and objectives.

1.3 Location of the Gordon River Greenway Preserve

Gordon River Greenway Preserve is located on the east and west side of the Gordon River, approximately ½ mile south of Golden Gate Parkway and just northwest of the Naples Airport, with the northern access to the Preserve being from Bembury Drive. (Figures 1 and 2). The Gordon River Greenway Preserve is in southwest Collier County in Section 34, Township 49, and Range 25.

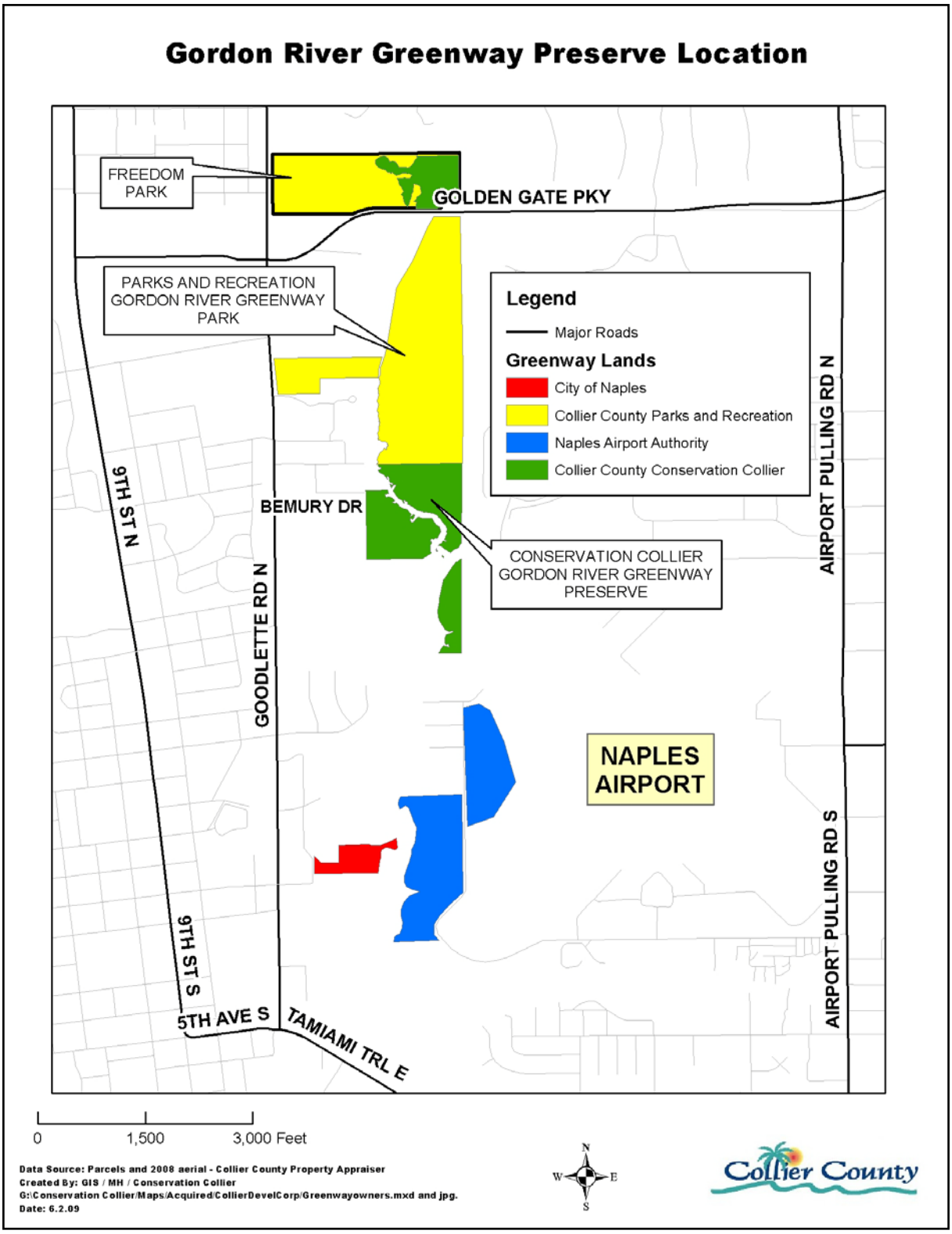

Figure 1: General Location of Gordon River Greenway Preserve.



Figure 2: Aerial View of the Gordon River Greenway Preserve

1.4 Regional Significance of the Gordon River Greenway Preserve

Ecosystem services such as the protection of water resources, flood control, maintenance of nutrient cycles, preservation of biological diversity, carbon sequestration, and the availability of recreational lands are imperative for the well-being of the citizens of Collier County and may be achieved through the preservation of natural areas. As of April 2008, approximately 66% (over 860,000 acres) of all lands in Collier County were protected in conservation areas (Figure 3) and managed by private, local, state and federal agencies (FNAI 2008). Collier County's Conservation Collier Program manages the 43.54-acre Gordon River Greenway Preserve; it contains mangrove swamp, scrubby flatwoods, hardwood/coniferous/palm mixed, and mixed wetland hardwoods communities. Specific information on the plant communities found on the Gordon River Greenway Preserve may be found in section 2.3 (Natural Plant Communities) of this document.

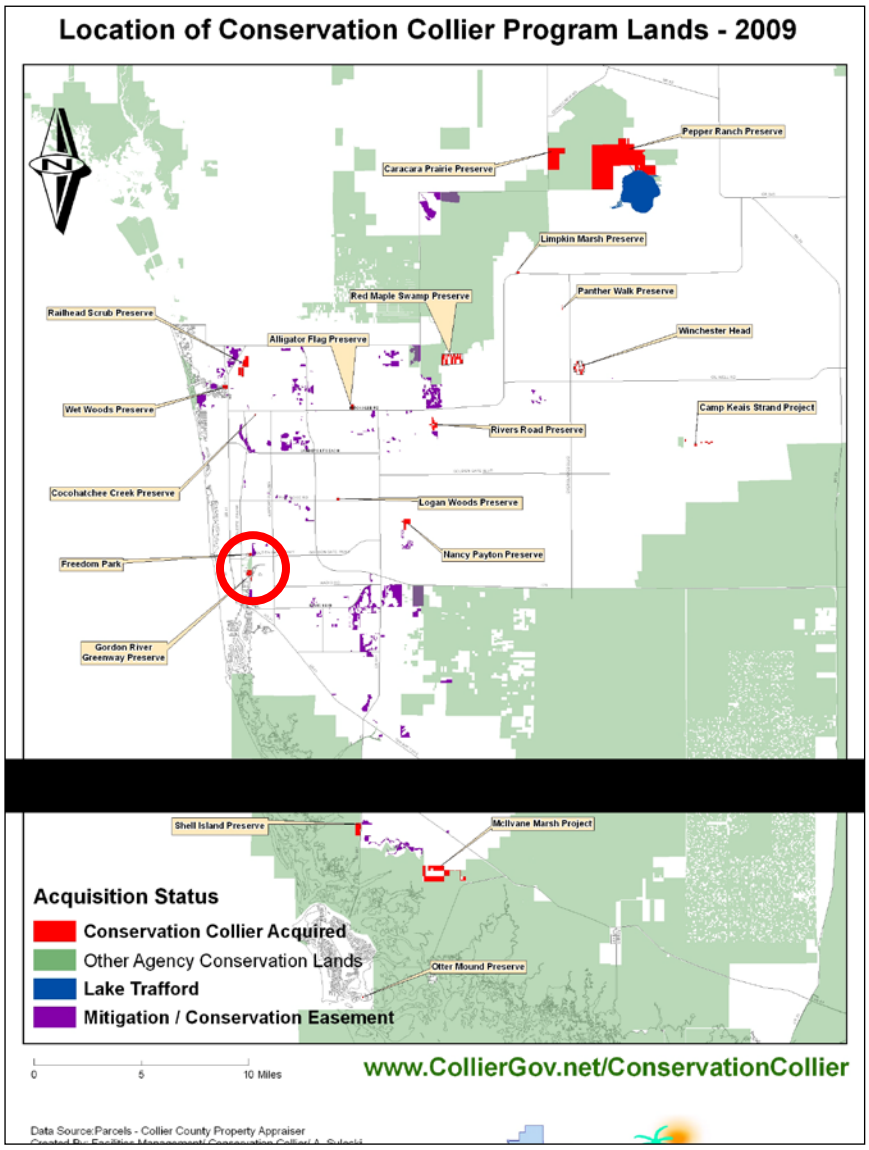

Figure 3: Conserved Lands in Collier County, Florida

1.5 Nearby Public Lands and Designated Water Resources

Currently, the closest preserved, natural area to the Gordon River Greenway Preserve is the adjoining Gordon River Greenway Park to the north managed by Collier County Parks and Recreation (Parks and Rec.). Other preserves, in order of increasing distance, are provided in Table 2. Figure 4 shows the locations of these preserves.

Table 2: Public Lands Located near the Gordon River Greenway Preserve

Name	Approximate Distance (miles)	Direction	Type
Gordon River Greenway Park	0.00 (adjoining)	N	County
Riverside Circle Wetland Area	0.47	SW	City of Naples
Naples Preserve	0.64	NW	City of Naples
Freedom Park	0.67	S	Conservation Collier
Rookery Bay National Estuarine Research Reserve	4.3	S	State
Logan Woods Preserve	5.1	NE	Conservation Collier
Picayune Strand State Forest	7.2	W	State
Cocohatchee Creek Preserve	7.2	N	Conservation Collier
Nancy Payton Preserve	7.3	NE	Conservation Collier
Delnor-Wiggins Pass State Park	7.8	W	State
Wet Woods Preserve	8.5	NW	Conservation Collier

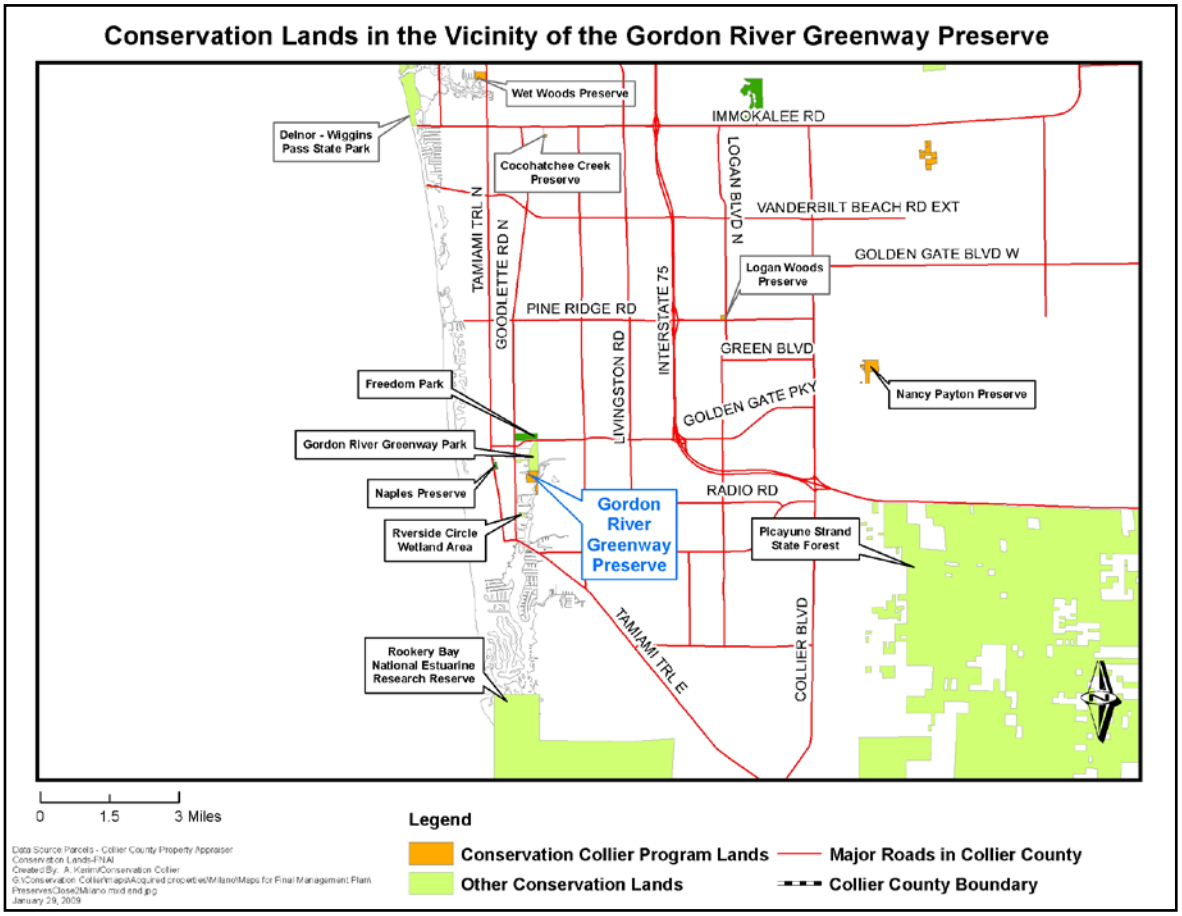

Figure 4: Preserves and Protected Lands in the Vicinity of Gordon River Greenway Preserve

1.6 Public Involvement

Neighborhood involvement will be sought through public meetings associated with the rezone and development process of the County's portion of the Gordon River Greenway, which includes the Gordon River Greenway Preserve and the Gordon River Greenway Park adjacent to the Preserve on the northern boundary. Staff will seek to coordinate management actions, such as exotic removal with owners of adjoining lands that are also part of the larger Gordon River Greenway Project.

Staff will continue to work together with Collier County Parks and Rec., Southwest Florida Land Preservation Trust, the Naples Airport Authority, and the City of Naples to ensure that sufficient public input is gathered regarding the Greenway and to ensure that Greenway development is consistent across agency boundaries.

2.0 Natural Resources

2.1 Physiography

Gordon River Greenway Preserve lies within the Floridian section of the Coastal Plain. The Coastal Plain extends from New Jersey to Texas and was formed mainly from sedimentary rocks deposited in marine environments (USGS 2004).

2.1.1 Soils

Soils data is based on the Soil Survey of Collier County Area, Florida (USDA/NRCS, 1990). The majority of the mapped soils on this parcel are Durbin and Wulfert Mucks, which are frequently flooded hydric, tidal soils. Non-hydric, Immokalee Fine Sand is found in a very small section at the northern edge of the property. (Figure 5).

Durbin and Wulfert Mucks, frequently flooded, covers approximately 91.3% of the preserve. These level, very poorly drained soils are in tidal mangrove swamps. Mapped areas can consist entirely of the Durbin soil, entirely of the Wulfert soil, or any combination of the two soils. The permeability of both soil types is rapid. The available water capacity in the Durbin soil is high and in the Wulfert soil it is moderate. The water table fluctuates with the tide, and it is within a depth of 12 inches for most of the year. The soil is subject to tidal flooding. The natural vegetation consists of red mangrove *(Rhizophora mangle*), black mangrove (*Avicennia germinans*), and white mangrove (*Laguncularia racemosa*) (Liudahl et al. 1990).

Immokalee Fine Sand (7.6% of the preserve) is a nearly level, poorly drained, non-hydric soil found on flatwoods. The permeability of this soil is moderate. The available water capacity is low. The seasonal high water table is normally at a depth of 6 to 18 inches for 1-6 monthes during most years; during the other months, the water table is below a depth of 18 inches, and it recedes to a depth of more than 40 inches during extended dry periods. Natural vegetation within this soil consists of Florida slash pine (*Pinus elliottii*), saw palmetto (*Serenoa repens*), waxmyrtle (*Myrica cerifera*), chalky bluestem (*Andropogon virginicus*), little bluestem (*Schizachyrium scoparium*), and wiregrass (*Aristida stricta*) (Liudahl et al. 1990).

Hallandale Fine Sand and Urban Land – Immokalee – Oldsmar, Limestone Substratum Complex soils cover 0.9% and 0.2% of the preserve respectively.

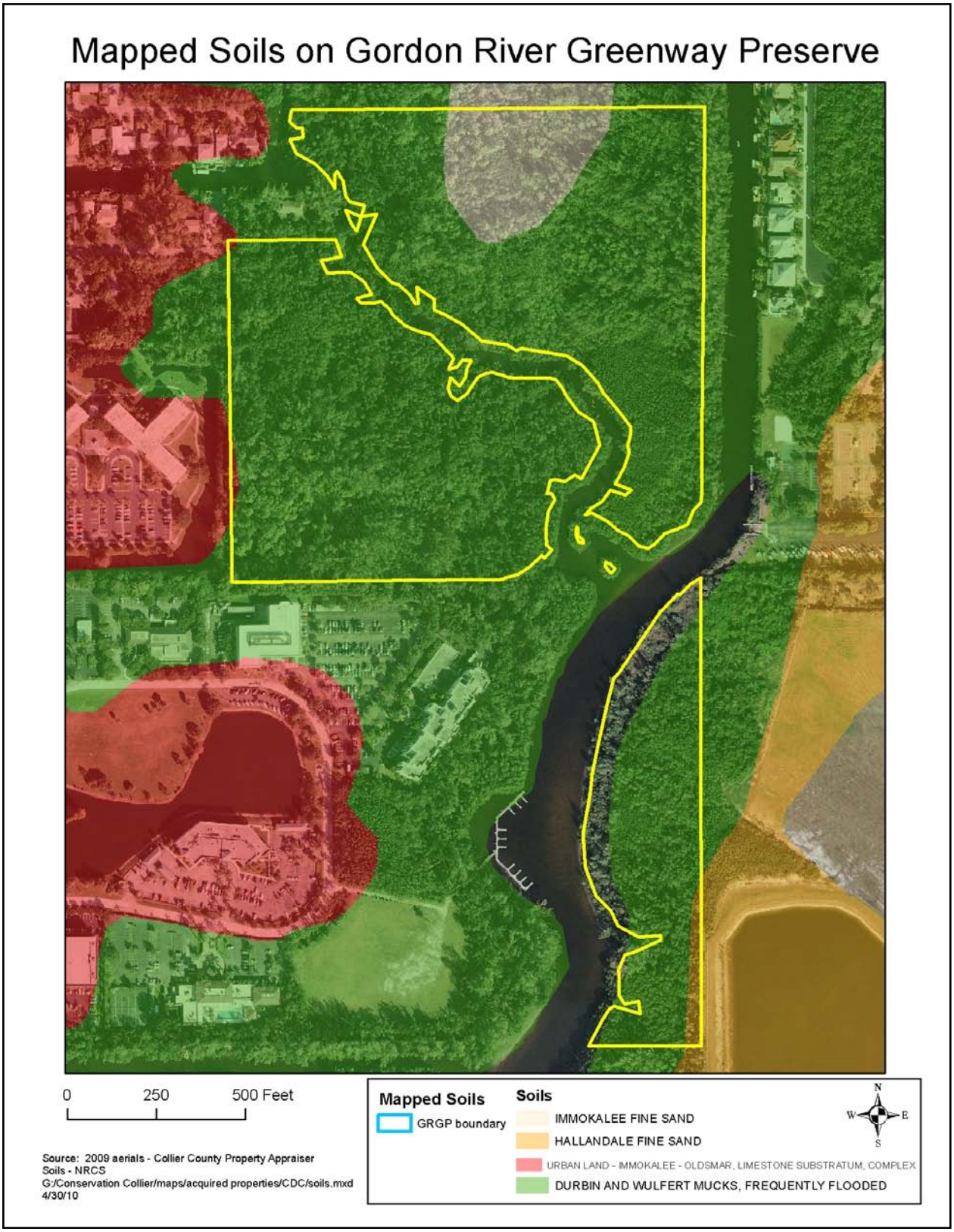

Figure 5: Soil Units on the Gordon River Greenway Preserve

2.1.2 Hydrology/Water Management

Near the surface, the aquifer is highly permeable and the groundwater flows toward the west. However, permeability decreases downward from a porous limestone into poorly indurated sandstone cemented by micrite. The aquifer grades from freshwater downward into brackish water due to the proximity of the Gulf of Mexico to the west and the brackish water in the intermediate aquifer made primarily of Miocene aged sediments. Below that, the Hawthorne formation typically marks the upper boundary of the Floridian aquifer, which is contained within the underlying Oligocene age Suwannee Limestone (Lodge 2005).

A large majority of the preserve contains tidally influenced brackish water wetlands that hold water year round.

The Surficial Aquifer is an aquifer close to the surface and unconfined, typically associated with the groundwater table. This aquifer is generally limited to smaller uses such as household or small agricultural uses. The Lower Tamiami aquifer is below this aquifer and is recognized as being useful for long-term water needs. According to the South Florida Water Management District's (SFWMD) technical publication 95-02 (Fairbank & Hohner 1995), the Surficial Aquifer recharge capacity on the Gordon River Greenway Preserve is moderate at 43 to 56 inches annually. The Lower Tamiami Aquifer recharge capacity on the preserve is relatively low at 7 to 14 inches annually.

2.2 Climate

The Gordon River Greenway Preserve is located in an area of Florida where humid subtropical and tropical savanna climatic patterns overlap, with temperatures moderated by winds from the Gulf of Mexico and the Atlantic Ocean. Sharply delineated wet and dry seasons and average monthly temperatures greater than 64º Fahrenheit characterize a tropical savanna climate. Monthly rainfalls may exceed ten inches during the wet season. On the other hand, humid subtropical climates typically show less extreme rainfall fluctuations between wet and dry seasons and average monthly temperatures is less than 64º Fahrenheit in some months.

The average annual temperature for the coastal portion of Collier County is approximately 75º Fahrenheit. The warmest months are usually July and August. The humidity is high during these months but frequent afternoon thunderstorms prevent excessively high temperatures.

Two-thirds of the annual rainfall occurs in the wet season from May to October. Thunderstorms are frequent during the wet season, occurring every two out of three days between June and September. Rainfall records for the area indicate that there is not significant variation in the annual rainfall throughout much of the county; however, large variations often occur during a single year. The Atlantic hurricane season extends from June through November with peak activity occurring in September and October when ocean temperatures are highest.

2.3 Natural Plant Communities

A plant community refers to the suite of floristic species that form the natural vegetation of any place. In addition to anthropogenic influences, the combination of factors such as geology, topography, hydrology, underlying soils and climate determine the types of plants found in an area. These plants, in turn determine the animal species that may be found there. The

description or classifications of these floral communities differ by agency and are based on an agency's goals and objectives for identifying plant communities. As some categorizations are broad (e.g., forest) while others are specific (e.g., mesic pine flatwoods), determining how each organization classifies a community may be difficult. The South Florida Vegetation Classification Scheme Crosswalks (Gilbert 2005) provides a way to decipher the classifications of plant communities across agencies. Appendix 2 provides the categorization of the plant communities observed on the Gordon River Greenway Preserve based on the South Florida Vegetation Classification Scheme Crosswalks; classifications from the Florida Natural Areas Inventory (FNAI) are also included in this appendix. Specific information on the invasive, exotic species present on the preserve is provided in section 2.6.1 of this document.

The Florida Department of Transportation and Water Management Districts' Land Use, Land Cover Classification System (FLUCCS) codes for plant communities observed on the Gordon River Greenway Preserve are presented in Table 3. The following subsections (2.3.1, 2.3.2, 2.3.3 and 2.3.4) provide information about the plant communities observed on the preserve.

Table 3: Extent of Florida Land Use, Land Cover Classification System Designations on the Gordon River Greenway Preserve

FLUCCS CODE	Mapped Plant Community	2009
6129	Mangrove Swamp – Disturbed	77%
3279	Other Shrubs and Brush (Scrubby Flatwoods – Disturbed)	9%
4349	Harwood/Coniferous/Palm Mixed	8%
7430	Spoil Area	5%
6179	Mixed Wetland Hardwoods – Disturbed	1%



Figure 6: Distribution of Natural Communities on the Gordon River Greenway Preserve

2.3.1 Wetlands: Mangrove Swamp – Disturbed

This land cover occupies 77% of the Greenway Preserve. Vegetation present in the wetland canopy includes Australian pine (*Casuarina* sp.), red mangrove, black mangrove, white mangrove, buttonwood (*Conocarpus erectus*), and cabbage palm (*Sabal palmetto*). A sub-canopy is present along the edges of this wetland and is comprised of Brazilian pepper (*Schinus terebinthifolia*), seagrape (*Coccoloba uvifera*), and wild lime (*Zanthoxylum fagara*). Species found in the herbaceous stratum include crinum lily (*Crinum americanum*), swamp fern *(Blechnum serrulatum*), giant leather fern (*Acrostichum danaeifolium*), golden leather fern (*Acrostichum aureum*), oyster plant (*Tradescantia spathacea*), scorpion's tail (*Heliotropium angiospermum*), seashore paspalum (*Paspalum vaginatum*), pineland heliotrope (*Heliotropium polyphyllum*) and grapevine (*Vitis rotundifolia*).

2.3.2 Wetlands: Mixed Wetland Hardwoods – Disturbed

The canopy along the edge of this community is comprised of laurel oak (*Quercus laurifolia*), slash pine, Australian pine, cabbage palm, and melaleuca (*Melaleuca quinquenervia*). Red mangrove, black mangrove, buttonwood, and white mangrove comprise the other canopy species in the mid-zone of this wetland. The sub-canopy consists of Brazilian pepper, gumbo limbo (*Bursera simaruba*), wax myrtle (*Myrica cerifera*), downy rose myrtle (*Rhodomyrtus tomentosa*), white indigoberry (*Randia aculeate*), Spanish stopper (*Eugenia foetida*), shoe button ardisia (*Ardisia elliptica*), and lyonia (*Lyonia ligustrina*). The herbaceous stratum contains sawgrass (*Cladium jamaicense*), black needlerush (*Juncus romerianus*), swamp fern, golden leather fern, and giant leather fern.

2.3.3 Uplands: Other Shrubs and Brush (Scrubby Flatwoods – Disturbed)

This area, labeled 3279 on Figure 6, is located on the north-central portion of the property, west of the Golden Gate Canal and Bear's Paw Golf Club. This upland area has become infested with dense downy rose myrtle. The dominant vegetation is saw palmetto, slash pine, wire grass and downy rose myrtle.

2.3.4 Uplands: Hardwood/Coniferous/Palm Mix

This native area is located at the southwestern corner of the property and consists of cabbage palm, slash pine, swamp fern, carrotwood (*Cupaniopsis anacardioides*), Brazilian pepper, and Australian pine.

2.3.5 Uplands: Spoil Area

A spoil berm exists on the southeastern parcel and it is most likely a result of the dredging of the Golden Gate Canal. This spoil area supports bahia grasses (*Paspalum notatum*), cabbage palm, Brazilian pepper, and several other upland species that have exploited the high ground within the mangrove swamps. The soil is classified as Urban Land-Immokalee-Oldsmar-Limestone substratum which is an upland soil according to the Soil Survey of Collier County, Florida (1998).

2.4 Native Plant and Animal Species

This section discusses the flora and fauna found within the plant communities described above. The next section (2.5) discusses all listed species in greater detail.

2.4.1 Plant Species

To date, 168 plant species have been recorded on the preserve (Appendix 3). Mike Kirby, Entrix staff member, conducted a floristic inventory in 2009. Of these 168 species, 111 (66%) are native - of which, 10 are listed by the State of Florida (3 are listed as endangered; 7 are listed as threatened). A qualified botanist will conduct another floristic inventory after initial removal of thick invasive, exotic vegetation.

2.4.2 Animal Species

Due to the dearth of specific surveys for the occurrence of animal species (in contrast to plants) and the lack of on-site staffing, little is recorded for actual occurrences of animals at the Gordon River Greenway Preserve. Occurrences of fauna at the preserve are based on direct visual and aural observations or observed evidence of activity such as spoor, scat, or burrows by County staff and environmental consultants during site visits. Occurrences are also based on site information available in documents such as the site's initial criteria screening report, the property's interim management plan and anecdotal information from persons with knowledge of the site. Table 4 provides a comprehensive list of animals, both native and non-native, recorded on the Gordon River Greenway Preserve thus far.

Table 4: Faunal Species Recorded on the Gordon River Greenway Preserve

Common Name	Scientific Name
Red imported fire ant [a]	*Solenopsis invicta*
Brown anole [a]	*Anolis sagrei*
Gopher tortoise	*Gopherus polyphemus*
Bald eagle	*Haliaeetus leucocephalus*
Belted kingfisher	*Ceryle alcyon*
Boat-tailed grackle	*Quiscalus major*
Brown pelican	*Pelecanus occidentalis*
Great crested flycatcher	*Myiarchus crinitus*
Great egret	*Ardea alba*
Little blue heron	*Egretta caerulea*
Northern cardinal	*Cardinalis cardinalis*
Osprey	*Pandion haliaetus*
Snowy egret	*Egretta thula*
Solitary sandpiper	*Tringa solitaria*
Swallow-tailed kite	*Elanoides forficatus*
Tri-colored heron	*Egretta tricolor*
Yellow crowned night heron	*Nyctanassa violacea*
Squirrel monkey [a]	*Saimiri sp.*
Nine-banded armadillo	*Dasypus novemcinctus*

a = non-native species

The Florida Breeding Bird Atlas (FWC 2003) lists 50 avian species that have been recorded as confirmed, probable, or possible breeding in the vicinity of the site (Table 5). The Breeding Bird Atlas documents breeding distributions of all bird species in Florida between 1986 and 1991. Some of these species may breed at the Gordon River Greenway Preserve.

Other wildlife species that have not yet been recorded undoubtedly occur at the Gordon River Greenway Preserve. During migration periods, transient bird species would be expected to utilize this area for short periods of time. The developed character of the adjacent areas may inhibit transient use by many mammal, reptile, and amphibian species, thus limiting the utilization of the preserve to resident individuals or inhibiting the dispersal of many species to and from the preserve.

Table 5: Breeding Bird Species Recorded in the Naples South Quadrangle Encompassing the Gordon River Greenway Preserve

Common Name	Scientific Name	Common Name	Scientific Name
American Swallow-tailed Kite	*Elanoides forficatus*	Mangrove Cuckoo	*Coccyzus minor*
Bald Eagle	*Haliaeetus leucocephalus*	Mourning Dove	*Zenaida macroura*
Black Vulture	*Coragyps atratus*	Muscovy Duck	*Cairina moschata*
Blue Jay	*Cyanocitta cristata*	Northern Bobwhite	*Colinus virginianus*
Blue-gray Gnatcatcher	*Polioptilia caerulea*	Northern Cardinal	*Cardinalis cardinalis*
Boat-tailed Grackle	*Quiscalus major*	Northern Flicker	*Colaptes auratus*
Brown Thrasher	*Toxostoma rufum*	Northern Mockingbird	*Mimus polyglottos*
Brown-headed Cowbird	*Molothrus ater*	Osprey	*Pandion haliaetus*
Carolina Wren	*Thryothorus ludovicianus*	Pied-billed Grebe	*Podilymbus podiceps*
Cattle Egret	*Bubulcus ibis*	Pileated Woodpecker	*Dryocopus pileatus*
Chimney Swift	*Chaetura pelagica*	Pine Warbler	*Dendroica pinus*
Common Grackle	*Quiscalus quiscula*	Prairie Warbler	*Dendroica discolor*
Common Ground-Dove	*Columbina passerina*	Purple Martin	*Progne subis*
Common Moorhen	*Gallinula chloropus*	Red-bellied Woodpecker	*Melanerpes carolinus*
Downy Woodpecker	*Picoides pubescens*	Red-shouldered Hawk	*Buteo lineatus*
Eastern Screech-Owl	*Megascops asio*	Red-winged Blackbird	*Agelaius phoeniceus*
European Starling	*Sturnus vulgaris*	Rose-ringed Parakeet	*Psittacula krameri*
Gray Kingbird	*Tyrannus dominicensis*	Ruby-throated Hummingbird	*Archilochus colubris*
Great Crested Flycatcher	*Myiarchus crinitus*	Snowy Egret	*Egretta thula*
Great Egret	*Ardea alba*	Tricolored Heron	*Egretta tricolor*
Great Horned Owl	*Bubo virginianus*	White-eyed Vireo	*Vireo griseus*
Green Heron	*Butorides virescens*	White-winged Dove	*Zenaida asiatica*
House Sparrow	*Passer domesticus*	Wild Turkey	*Meleagris gallopavo*
Least Tern	*Sterna antillarum*	Wilson's Plover	*Charadrius wilsonia*
Little Blue Heron	*Egretta caerulea*	Yellow-crowned Night-Heron	*Nyctanassa violacea*

**** = non-native species***

2.5 Listed Species

Official lists of rare and endangered species are produced at the federal level by the United States Fish and Wildlife Service and the National Marine Fisheries Service and at the State level by the Florida Fish and Wildlife Conservation Commission (FWC) and the Florida Department of Agriculture and Consumer Services. FNAI produces a list of rare and endangered species, and maintains a database of occurrences of these species in Florida. The Institute for Regional Conservation (IRC) also ranks native plant species by conservation status in the 10-county area of South Florida. The following subsections (2.5.1 and 2.5.2) discuss the listed, rare and protected plant and animal species found within and close to the Gordon River Greenway Preserve in detail.

2.5.1 Listed Plant Species

The Florida State Statute titled "Preservation of native flora of Florida" (Statute 581.185) provides the following definitions:

- Endangered plants means species of plants native to the state that are in imminent danger of extinction within the state, the survival of which is unlikely if the causes of a decline in the number of plants continue, and includes all species determined to be endangered or threatened pursuant to the federal Endangered Species Act of 1973, as amended, Pub. L. No. 93-205 (87 Stat. 884).
- Threatened plants means species native to the state that are in rapid decline in the number of plants within the state, but which have not so decreased in such number as to cause them to be endangered.
- Commercially exploited plants means species native to the state, which are subject to being removed in significant numbers from native habitats in the state and sold or transported for sale.

There are ten (10) plant species at Gordon River Greenway Preserve that are listed by the Florida Department of Agriculture and Consumer Services (FDACS), three (3) as endangered and seven (7) as threatened (Table 6). A brief description of these species and their status is included in the following paragraphs.

Table 6: Listed Plant Species Detected at the Gordon River Greenway Preserve

Common Name(s)	Scientific Name	State
Whitewood	*Drypetes diversifolia*	E
Florida Royal Palm	*Roystonea regia*	E
Stiff-leaved wild-pine, Cardinal airplant	*Tillandsia fasciculata*	E
Golden leather fern	*Acrostichum aureum*	T
Satinleaf	*Chrysophyllum oliviforme*	T
Pricklypear	*Opuntia stricta*	T
Mullein nightshade	*Solanum donianum*	T
West Indian mahogany	*Swietenia mahagoni*	T
Reflexed wild-pine, Northern needleleaf	*Tillandsia balbisiana*	T
Twisted airplant	*Tillandsia flexuosa*	T

T: Threatened; E: Endangered; C: Commercially Exploited

Three of the ten listed plant species found on the Gordon River Greenway Preserve are classified as bromeliads. Bromeliads are members of the pineapple family (Bromeliaceae). While some of

these species may be found growing terrestrially, most native bromeliads found in Florida are found growing attached to tree trunks and branches and may therefore be referred to as epiphytes (a plant that lives upon other plants; from Greek "epi" = upon "phyte" = plant). The leaves and/or roots of these airplants (depending on the species) absorb the water and nutrients they need from the air and from the rain that falls through the canopy of the tree on which they are found. Since epiphytes use their roots only to anchor themselves to another plant, they are considered non-parasitic. Even though the three listed bromeliad species found on the Gordon River Greenway Preserve are fairly common in the state, they are listed due to illegal collecting and the destruction of the habitats in which they are found. Additionally, infestation by the introduced Mexican bromeliad weevil (*Metamasius callizona*) has been implicated in the decline of many airplant populations around the state. Currently, there are no control measures in place however, close research and monitoring is taking place.

Stiff-leaved Wild Pine (*Tillandsia fasciculata*), is also known as cardinal airplant and common wild pine. *T. fasciculata* is listed as an endangered plant by the State of Florida and has been in 24 counties throughout Florida (Wunderlin & Hansen 2008). This epiphyte was frequently found in South Florida before the introduction of the Mexican bromeliad weevil. Today, it may be found in hammocks, cypress swamps and pinelands.



Tillandsia fasciculata;
Photo by Annisa Karim



View of *T. fasciculata* with water in the "tank".
Photo by Annisa Karim

Like most of the other bromeliads in Florida, this species is often referred to as a "tank" bromeliad because the leaf axils and central stems form a "tank" or reservoir at the base of the plant. These reservoirs capture and hold water, dead and decaying plant matter (leaves, seeds twigs, etc.), and dead and drowning non-aquatic insects; these trapped items provide nutrients for the plant (Larson et al. 2006).

Twisted airplant (*Tillandsia flexuosa*) is a slow growing epiphyte found in moist forests and swamps. *T. flexuosa*, also known as banded wild pine is listed as a threatened plant by the State of Florida.



Tillandsia flexuosa;
Photo by T. Ann Williams



Swietenia mahagoni;
Photo by Patricia Howell

West Indian mahogany (*Swietenia mahagoni*)

West Indian mahogany occurs in the West Indies, Bahamas and South Florida. The leaves of the mahogany are unique among North American native trees. They are even-pinnate compound, with three or four pairs of asymmetric leaflets and no leaflet at the tip. *S mahagoni* has been reported from the 5 southernmost counties in Florida (Wunderlin & Hansen 2008).

Mullein nightshade (*Solanum donianum*)

This threatened plant is found growing near the upland spoil within the southern portion of the property. It has been found in 3 South Florida counties (Wunderlin & Hansen 2008).



Solanum donianum;
Photo by T. Ann Williams



Opuntia stricta;
Photo by Keith Bradley

Pricklypear (*Opuntia stricta*)

O. stricta is predominantly found within pinelands and coastal uplands throughout Florida where it has been documented in 25 counties (Wunderlin & Hansen 2008).

Satinleaf (*Chrysophyllum oliviforme*)

This medium to large sized tree is endemic to peninsular Florida where it has been reported from 10 counties (Wunderlin & Hansen 2008).



Chrysophyllum oliviforme;
Photo by Shirley Denton



Drypetes diversifolia;
Photo by T. Ann Williams

Whitewood (*Drypetes diversifolia*)

This tree has only been documented in 2 counties and its range appears to be limited only to the Florida keys (Wunderlin & Hansen 2008). Once initial invasive exotic plant removal has occurred within the preserve, a follow-up floristic survey will need to be completed to confirm the presence of this species.

Reflexed wild pine (*Tillandsia balbisiana*) is an epiphytic, "tank" bromeliad and is listed as a threatened plant by the State of Florida. Wunderlin and Hansen reported this species in 22 counties throughout Florida as of 2008 (Wunderlin & Hansen 2008). Reflexed wild pine is an occasional species in South Florida and is usually found in scrub, pinelands, strand swamps, hammocks, mangrove swamps and on shell ridges/mounds.



Tillandsia balbisiana
Photo by Annisa Karim



Roystonea regia;
Photo by Shirley Denton

Florida royal palm (*Roystonea regia*)

Although seemingly common, this majestic tree is considered endangered by the State of Florida. Native to the cypress swamps of South Florida and found growing naturally in only 4 counties within the state (Wunderlin & Hansen 2008), this tree is a favorite landscape tree throughout Florida.

Golden leather fern (*Acrostichum aureum*)

Native to tidal swamps and marshes, this large fern is found in 9 coastal Florida counties as far north as Hillsborough County (Wunderlin & Hansen 2008).



Acrostichum aureum;
Photo by Shirley Denton

FNAI maintains a database of occurrences of rare, threatened, and endangered species in Florida. An element is any exemplary or rare component of the natural environment, such as a species, natural community, bird rookery, spring, sinkhole, cave, or other ecological feature. An element occurrence is a single, extant habitat that sustains or otherwise contributes to the survival of a population or a distinct, self-sustaining example of a particular element.

These element occurrence data are built into biodiversity matrices. Each matrix encompasses one square mile and includes all species and natural communities tracked by FNAI, including all federal listed species. The FNAI report for the matrix in which the Gordon River Greenway Preserve is located identifies one likely element and eleven potential elements. Of these twelve likely and potential elements, one has been observed on the preserve, namely Florida royal palm (described above). Appendix 4 provides the FNAI Element Occurrence Summary as well as the

Biodiversity Matrix Report. Global and state rankings are provided for each species as well as their federal and state status.

2.5.2 Listed Animal Species

Within FNAI's Biodiversity Matrix for the Gordon River Greenway Preserve, two rare wildlife species were documented, two wildlife species were reported as likely to occur (rare species likely to occur on the site based on suitable habitat and/or known occurrences in the vicinity), and twenty species were reported as potential occurrences (site lies within the known or predicted range of species). Global and state rankings are provided for each species as well as their federal and state status.

Table 7 below contains listed species that have been observed in or are likely to occur in the ecosystems of Gordon River Greenway Preserve.

Table 7: Listed Animal Species Observed and Likely to Occur at the Gordon River Greenway Preserve

Common Name(s)	Scientific Name	State	Federal
Eastern Indigo Snake	*Drymarchon corais couperi*	T	T
Gopher Tortoise - observed	*Gopherus polyphemus*	T	
Brown Pelican - observed	*Pelecanus occidentalis*	SSC	
Wood Stork	*Mycteria americana*	E	E
Little Blue Heron - observed	*Egretta caerulea*	SSC	
Reddish Egret	*Egretta rufescens*	SSC	
Snowy Egret - observed	*Egretta thula*	SSC	
Tricolored Heron - observed	*Egretta tricolor*	SSC	
White Ibis	*Eudocimus albus*	SSC	
Roseate Spoonbill	*Platalea ajaja*	SSC	
Big Cypress Fox Squirrel – observed on adjacent Parks and Rec. property	*Sciurus niger avicennia*	T	
West Indian Manatee	*Trichechus manatus latirostris*	E	E

Eastern Indigo Snake (*Drymarchon corais couperi*)
The Eastern indigo snake, a State and federally listed Threatened species, uses a wide variety of habitats in peninsular Florida and may be expected to occupy almost any tract that contains potentially suitable habitat. Typically, within this area of South Florida, the Eastern indigo snake is found in scrubby and pine flatwoods areas with groundcover consisting of palmetto near water, or tropical hammocks, and frequently uses gopher tortoise burrows as refuges. Based on current site characteristics, the amount of suitable habitat, and the population of gopher tortoises present on and adjacent to the site, the probability of Eastern indigo snake occurring on the preserve is high. Increasingly, the United States Fish and Wildlife Service (USFWS) requests implementation of *Standard Protection Measures for the Eastern Indigo Snake* to minimize potential impacts to the snakes during site clearing and construction. Typically, these measures include education of heavy equipment operators to identify and avoid Eastern indigo snakes, requirements that all work stop if an eastern indigo snake is observed, and having an on-call biologist to oversee the construction in potentially suitable habitat.

Gopher Tortoise (*Gopherus polyphemus*)
The gopher tortoise is a state-listed Threatened species that occupies a variety of open, upland habitat characterized by well-drained, sandy soils, some of which are found within the northern upland area of the Gordon River Greenway Preserve. At the request of Collier County and in preparation of planning the park's future layout, ENTRIX ecologists conducted a 100-percent survey (March-April 2008) of the project area to determine the presence of this species. Evidence of gopher tortoises was observed in the scrubby flatwoods w/ >50% downy rose myrtle (FLUCFCS 3272). A total of 1 active burrow, 3 inactive burrows, and 9 abandoned burrows were documented by ENTRIX ecologists within the Gordon River Greenway Preserve. Fewer than 5 gopher tortoises may need to be relocated from the parking area near the Naples Zoo within the Gordon River Greenway Park. If possible, these gopher tortoises will be re-located to the 3.9 acres of disturbed Scrubby Flatwoods plant community within the Greenway Preserve, once this area is restored. Staff will coordinate relocation with FWC and Parks and Recreation staff.

Brown Pelican (*Pelecanus occidentalis*)
The Brown Pelican is a state-listed Species of Special Concern that requires coastal, mangrove islands for breeding and open saltwater areas for foraging. Limited suitable nesting habitat was observed within the Gordon River Greenway Preserve within a small mangrove island currently used as a rookery site by yellow-crowned night herons (*Nyctanassa violacea*). Extensive foraging opportunities exist within the Gordon River and the Golden Gate Canal.

Listed Wading and Water Birds
Wood Stork (*Mycteria americana*)
Roseate Spoonbill (*Platalea ajaja*)
Little Blue Heron (*Egretta caerulea*)
Snowy Egret (*Egretta thula*)
Tricolored Heron (*Egretta tricolor*)
White Ibis (*Eudocimus albus*)
Reddish Egret (*Egretta rufescens*)

With the exception of the state and federally endangered wood stork, all of the birds listed above are Florida Species of Special Concern. During the extensive fieldwork conducted by ENTRIX ecologists as part of this project, several listed and non-listed wading birds were observed foraging within the exposed and mangrove-dominated shorelines along the Gordon River and Golden Gate Canal. No nesting by listed wading birds were observed, but a small rookery of non-listed yellow-crowned night herons was observed. A review of the FWC online waterbird nesting database, revealed that only one wading bird colony was located within five (5) miles of the project boundary, and this colony has been inactive during the past decade. It is unlikely that nesting by any listed wading bird might occur elsewhere on the project site within the mangrove-dominated wetlands along Gordon River. The project boundary, however, is within the 18.6-mile core foraging area (CFA) of some of the most significant Wood Stork nesting colonies in southwest Florida; especially those at Corkscrew Swamp Sanctuary (Mazziotti 2002). As such, the UFWS will seek to minimize adverse impacts to wood stork foraging habitat by requiring compensation based on replacing any lost function provided by each wetland type impacted within the boundary of the project area. Wetland impacts must be compensated by offering

compensation of the same hydroperiod, or through purchase of wetland credits within a "Service Approved" mitigation bank. The proposed project produces impacts to wood stork core foraging habitat by construction of a pedestrian boardwalk through wetlands adjacent to the Gordon River and construction of a pedestrian bridge over the river. Compensation for these proposed impacts will consist primarily of extensive wetland habitat improvement, resulting from the eradication of nuisance non-native vegetation project-area wide and its long-term management. Currently, wetlands located throughout the project area are virtually unavailable to wood stork foraging because of the dense cover caused by the invasion of these systems by nuisance non-natives. Based on direction provided by the UFWS in their South Florida Programmatic Concurrence for the Wood Stork (November 9, 2007), the extensive habitat improvement proposed should be considered adequate mitigation for the minor impacts resulting from the proposed construction. Similarly, the project is not likely to negatively impact the foraging habitat of state-listed wading birds and is likely to improve foraging opportunities project-area wide.

The Big Cypress fox squirrel (*Sciurus niger avicennia*)

Also known as the mangrove fox squirrel, the FWC lists this species as threatened in Florida. While the species is widespread in eastern and central North America, the subspecies is endemic to southwestern Florida – specifically in the Immokalee Rise, Big Cypress Swamp, and Devil's Garden area in Collier County. Some areas of this range have become vacated, while many other suitable areas are being altered or becoming isolated through development. The subspecies uses most types of forest occurring in its range. However, dense interiors of mixed cypress-hardwood strands seem to be avoided by Big Cypress fox squirrels due to dense populations of gray squirrels (*Sciurus carolinensis*) occupying these areas. Big Cypress fox squirrels have been reported in cypress swamp, pine flatwood, tropical hammock, hardwood hammock, mangrove swamp, and suburban habitats including golf courses, and residential areas in native vegetation. Big Cypress fox squirrel densities appear to be quite low, and on this basis the subspecies can be considered inherently rare (Humphrey & Jodice 1992).

West Indian Manatee (*Trichechus manatus latirostris*)

The West Indian manatee, is a State and federally listed Endangered species commonly found in coastal, estuarine, and in riverine habitats near coastal areas. Manatees require access to freshwater sources, vascular aquatic plants for foraging, channels of minimum 6-foot depth for movement, and access to natural springs, coves, and warm-water refugia for foraging, mating, and wintering. All of these conditions are found within the Gordon River and Golden Gate Canal areas. The extensive Golden Gate Canal system, dredged in late 1960's, allows boating access to the Gulf of Mexico for several single- and multi-family developments. This canal system flows into Naples Bay. The West Indian manatee is drawn to and capable of accessing the inland canal system, rivers, and bays near the project site to feed, calve, and mate. According to the *Collier County Manatee Protection Plan* (May, 1995), the Golden Gate Canal/Gordon River area is not a significant area for manatee population concentrations or mortality within the County. As such, this region has been designated as a "Slow Speed" zone year round, including the channel (68C-22.023(1)(c)2. Naples Bay south of Gordon River is designated as an "Idle Speed" zone all year round including the channel (68C-22.023(1)(b)1). According to the FWC Research Institute's 2007 Manatee Mortality Report, three (3) manatee deaths occurred within a one (1) mile radius of the preserve boundary. None of these mortalities were attributed to boating collisions or other

human-related causes, but were natural or prenatal causes. Based on these results, the impact to manatees and their habitat should be minimal. Impacts are largely confined to those associated with the construction of an elevated boardwalk through a portion of the coastal mangrove forest and a pedestrian bridge across the Gordon River. Installation of these structures and selection of materials will use Best Management techniques to minimize impacts to the surrounding habitat. Footers for the pedestrian bridge will be installed in the adjoining mangroves to avoid any construction or obstruction within Gordon River that might impact manatees or their movements. Collier County will implement the FWC's *Standard Manatee Conditions for In-Water Work* (July 2005) for all bridge and boardwalk work conducted within Gordon River to ensure the safety of manatees.

2.6 Invasive, Non-native and Problem Species

In an ecological context, an invasive species is one that is aggressive in growth and expansion of range and tends to dominate others; its establishment and dominance can cause widespread harm to an ecological system by altering the species composition, susceptibility to fire and hydrology of an area. Non-indigenous species (i.e., non-native or exotic species) are those that have been introduced purposefully or accidentally to an area outside their normal range. The characteristics of some of these species (high rate of growth/reproduction, no natural predators, easily dispersed, able to out-compete native species) make them invasive. Some indigenous species (a species whose natural range included Florida at the time of European contact circa 1500 AD or a species that has naturally expanded or changed its range to include Florida) may also become invasive. Invasions by native and non-native species often follow an alteration to ecosystem function, disruption of the food web, large-scale fragmentation of an ecosystem and/or disturbance (e.g., clearing, fire, drought, etc) of an area. While some native species may become invasive, the establishment and dominance of non-native species is of particular concern. The exotic plant and animal species documented within the preserve and those that have a potential to occur within the preserve are discussed in the following sections.

2.6.1 Invasive and Problem Plant Species

The Florida Exotic Pest Plant Council (FLEPPC) maintains a list of exotic plants that have been documented to (1) have adverse effects on Florida's biodiversity and plant communities, (2) cause habitat loss due to infestations and (3) impact endangered species via habitat loss and alteration. To date, 57 non-indigenous plant species have been detected within Gordon River Greenway Preserve, accounting for 34% of the plant species recorded there. Of these 57 exotic species, 46 can be considered invasive (Table 8), and 38 are listed by FLEPPC (21 Category I and 17 Category II). FLEPPC defines Category I plants as those that alter native plant communities by displacing native species, change community structures or ecological functions, or hybridize with natives. Category II plants have increased in abundance or frequency but have not yet altered Florida plant communities to the extent shown by Category I species. These definitions do not rely on the economic severity or geographic range of the problem, but rather on the documented ecological damage caused by these plants (FLEPPC 2007). Preserve lands will be maintained free of both Category I and II exotic plants.

Table 8: Invasive Plant Species at Gordon River Greenway Preserve		
Common Name	**Scientific Name**	**FLEPPC Category**
Air potato	*Dioscorea bulbifera*	I
American evergreen	*Syngonium podophyllum*	I
Australian umbrella tree	*Schefflera actinophylla*	I
Australian pine	*Casuarina* sp.	I
Balsam apple	*Momordica charantia*	
Bamboo	*Bambusa* sp.	
Beauty leaf	*Calophyllum antillanum*	
Bishopwood	*Bischofia javanica*	I
Brazilian pepper	*Schinus terebinthifolius*	I
Caesarweed	*Urena lobata*	II
Carrotwood	*Cupaniopsis anacardioides*	I
Castorbean	*Ricinus communis*	II
Chinaberry tree	*Melia azedarach*	II
Coral vine	*Antigonon leptopus*	II
Downy rosemyrtle	*Rhodomyrtus tomentosa*	I
Earleaf acacia	*Acacia auriculiformis*	I
Florida tassleflower	*Emilia fosbergii*	
Guineagrass	*Panicum maximum*	II
Indian laurel	*Ficus microcarpa*	I
Java Plum	*Syzygium cumini*	I
Lantana	*Lantana camara*	I
Latherleaf	*Colubrina asiatica*	I
Leadtree	*Leucaena leucocephala*	II
Life plant	*Kalanchoe* sp.	II
Limpo grass	*Hemarthria altissima*	II
Mahoe	*Talipariti tiliaceum*	II
Malabar plum	*Syzygium jambos*	
Melaleuca	*Melaleuca quinquenervia*	I
Mother-in-law's tongue	*Sansevieria hyacinthoides*	II
Napiergrass	*Pennisetum purpureum*	I
Oyster-plant	*Tradescantia spathacea*	II
Paper mulberry	*Broussonetia papyrifera*	II
Rosary pea	*Abrus precatorius*	I
Royal Poinciana	*Delonix regia*	
Senegal date palm	*Phoenix reclinata*	II
Septicweed	*Senna occidentalis*	
Shoebutton ardisia	*Ardisia elliptica*	I
Shrubby false buttonweed	*Spermacoce verticillata*	
Simpleleaf chastetree	*Vitex trifolia*	II
Small-leaf climbing fern	*Lygodium microphyllum*	I

Torpedograss	*Panicum repens*	I
Tropical almond	*Terminalia catappa*	II
Turkeyberry	*Solanum torvum*	II
Valamuerto	*Senna pendula var. glabrata*	I
Wedelia	*Sphagneticola trilobata*	II
Woman's Tongue	*Albizia lebbeck*	I

The following paragraph outlines the methods that will be used to treat exotics dependent on the species type and location of treatment.

Most woody invasive species, with the exception of Australian pine and downy rosemyrtle, will be killed in place with a dye-laced herbicide. Melaleuca and other exotic plants within the Mixed Wetland Hardwoods Disturbed community may be hand cut and removed from the site or mechanically cleared, depending upon density of the exotic vegetation and soil moisture conditions. Downy rosemyrtle will be mowed in place and re-sprouts treated if density of plants and soil moisture conditions allow. Where machinery cannot be used, downy rosemyrtle will be hand cut at base, left on-site, and stumps sprayed with an appropriate herbicide. If hand cut downy rosemyrtle density is high, the preserve manager may opt to remove plant debris. All Australian pines growing adjacent to the Gordon River and canal, and all Australian pines growing over 20 feet in height will be cut and removed from site. A barge will be necessary to mobilize equipment and tree debris. A suitable staging area for the barge and tree debris will need to be identified. All Australian pines growing under 20 feet in height and growing at least 20 feet inward from the shoreline and 20 feet away from the boardwalk/trail will be killed in place. All herbaceous invasive exotic vegetation will be treated via foliar application. Invasive vines may be treated via foliar application or cut-stem application.

2.6.2 Invasive and Problem Animal Species

Although Florida does not have an official exotic, invasive animal species list, at least 400 exotic fish and wildlife animal species have been reported in Florida, and approximately 125 species are established.

Three non-indigenous, animal species have been documented on the preserve: squirrel monkeys red imported fire ants (*Solenopsis invicta*) and brown anoles (*Anolis sagrei*). Brief descriptions of documented and undocumented but potentially problematic species are provided in the following paragraphs.



Squirrel Monkey troops have been observed within the Gordon River Greenway Preserve. Photo courtesy of

Squirrel Monkey (*Saimiri* sp.): documented within the Gordon River Greenway Preserve

Squirrel monkeys are native to the tropical forest canopy layers of Central and South America. They are omnivores, eating primarily fruits and insects, but occasionally eating nuts, buds, eggs and small vertebrates (Groves 2005). Groups of free- roaming squirrel monkeys have existed within the vegetated areas surrounding The Naples Zoo

for many years. The monkeys have been observed within the Gordon River Greenway Preserve.

Red imported fire ant (*Solenopsis invicta*): documented within the Gordon River Greenway Preserve



Solenopsis invicta, an invasive, non-indigenous arthropod documented within the Gordon River Greenway Preserve. Photo courtesy of the USDA.

These social insects were introduced into the U.S. from Brazil into either Mobile, Alabama or Pensacola, Florida between 1933 and 1945 (Collins & Scheffrahn 2005) and have been detected in the Gordon River Greenway Preserve. Red imported fire ants (RIFA) have been documented to cause harm to humans and wildlife as well as economic harm (Stimac & Alves 1994; Collins & Scheffrahn 2005; Willcox & Giuliano, 2006). RIFAs are omnivorous, but they prefer insects as their primary food source (Willcox & Giuliano 2006). RIFAs have a number of impacts on wildlife; in many areas, they have eliminated native ant populations through competition and predation and have eradicated food sources utilized by some wildlife species. Ground-nesting wildlife is especially susceptible to RIFAs. Within the Gordon River Greenway Preserve, RIFAs have the potential to affect ground-nesting birds; small mammals; reptiles, native lizard and snake species, and native invertebrates (Willcox & Giuliano 2006). Additionally, members of the public that come into contact with RIFAs may be harmed if stung. Many people have anaphylactic reactions to the toxins released from RIFA stings.

Brown Anole (*Anolis sagrei*): documented within the Gordon River Greenway Preserve



Anolis sagrei, an invasive, exotic reptile documented in the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Also known as the Cuban anole, the brown anole is native to Cuba, the Bahamas, and neighboring islands (Schwartz & Henderson 1991). Like other anoles from the islands, this species is a small, tropical, diurnal, arboreal, territorial, and insectivorous lizard (Campbell 2001). The brown anole was first documented in the Florida Keys in the late 1800s (Lee 1985) and has since spread throughout Florida, into Georgia and into two other southeastern states (Campbell 1996). The brown anole is a habitat generalist and generally prefers the fairly open areas of disturbed sites. It feeds on a wide variety of insects, amphipods, and isopods. Brown anoles also prey on other small vertebrates including the hatchlings of the native green anole (*A. carolinensiis;* Campbell 2000).



Anolis carolinensiis, an ***indigenous*** reptile documented in the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Campbell (2000) showed that, in the absence of the exotic brown anoles, native green anoles occupy perches from ground to the canopy of vegetation. However, in the presence of the exotic anole, native anoles move higher in trees, occupying only the trunk and crown of trees. Dietary overlap is high between both species, but the overall affects of the brown anole on the green anole are still undetermined.

Cuban tree frog (*Osteopilus septentrionalis*): undocumented within the Gordon River Greenway Preserve



Osteopilus septentrionalis, an invasive, exotic amphibian that has the potential to occur at the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Like the Cuban anole, the Cuban tree frog is native to Cuba, the Bahamas, and neighboring islands. The first Cuban tree frogs probably arrived in the Florida Keys as stowaways in shipping crates originating from the Caribbean in the 1920's. Today, they have established breeding populations as far north as Cedar Key on Florida's Gulf Coast, Jacksonville on the Atlantic Coast, and Gainesville in north-central Florida. These hylids are the largest tree frog found in Florida and because of their ability to invade natural areas and prey on native invertebrates and small vertebrates (including native tree frogs) they are considered an invasive species. Additionally, the tadpoles of this species inhibit the growth and development of the tadpoles of the native southern toad (*Bufo terrestris*) and green tree frog (*Hyla cinerea*). Cuban tree frogs thrive in residential and natural areas such as pine forests, hardwood hammocks, and swamps. In residential settings, they are most commonly found on and around homes and buildings, and in gardens and landscape plants. They are known to get into transformer boxes and electrical switches causing power outages (Johnson 2007). Due to the natural communities that are found within the Gordon River Greenway Preserve and its proximity to residential areas, this species has the potential of occurring in the preserve.

Giant Marine Toad or Cane Toad (*Bufo marinus*): undocumented within the Preserve



Bufo marinus, an invasive, exotic amphibian that has the potential to occur at the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Bufo terrestris, a native toad that looks similar to the exotic, invasive cane toad. Photo courtesy of the USGS.

The cane toad is a tropical species native to the Amazon basin in South America, and its range extends through Central America to extreme southern Texas along the Rio Grande River. They are used as a control agent for insects that damage sugarcane and consequently, are one of the most introduced amphibian species in the world. In 1936, an attempt was made to introduce this species into Palm Beach County, FL. This attempt failed as did two subsequent efforts. Ironically, in 1955, an accidental release by an importer at the Miami International Airport in Miami-Dade County, FL proved

successful. They have since been deemed an invasive species in Florida and are currently found in urban areas of south and central Florida, and are rapidly expanding northward (Brandt & Mazziotti 2005). Many of this species' characteristics enable it to do well in south Florida. Beetles, bees, ants, winged termites, crickets and bugs are a large part of the diet of the adult marine toad. Additionally, they consume arthropods, mollusks, small vertebrates, plant matter, pet food, carrion, household scraps, marine snails, smaller toads and native frogs, small snakes, and even small mammals. Marine toads are prolific breeders and females can lay tens of thousands of eggs in a single breeding season. They prefer forested areas with semi permanent water nearby (Churchill 2003). The cane toad looks very similar to the native, southern toad, but there are some distinct differences. The most obvious difference is adult body size (length of body not counting the legs). Adult marine toads can reach lengths of 6 -9 inches while the native southern toads only reach a length of 3.6 inches. Like other true toads, both possess poisonous, parotid glands. The ***parotid glands*** of the cane toad are angled downward behind their head to their shoulders. The southern toad has a kidney-shaped parotid gland behind each eye positioned close to the spine. The southern toad also possesses ***cranial crests*** that start between the eyes and often end in big knobs. While the parotid glands of all toads contain bufotoxins (poisonous, milky fluids exuded as a defense mechanism), the chemicals released by the exotic, cane toad are much more harmful to wildlife, pets and people (Brandt & Mazziotti 2005). Due to the natural communities that are found within the Gordon River Greenway Preserve and its proximity to residential areas, this species has the potential of occurring within the preserve. Adjoining residents of the preserve should be encouraged to keep pet food and water containers indoors or empty at night.

Feral domestic cat *(Felis catus):* undocumented within the Gordon River Greenway Preserve

Domestic cats originated from an ancestral wild species, the European and African wildcat (*Felis silvestris*). Humans facilitated the global distribution of cats due to their highly efficient predatory skills. Egyptians took cats with them on shipping vessels to keep rodent populations down, and they likely introduced domestic cats to Europe. Subsequently the expansion of the Roman Empire and European missionary missions facilitated the spread of domestic cats into Asia and beyond (Masterson 2007). Today, the impact of feral cats on wildlife is difficult to quantify; however, literature (FWC 2001; Karim 2007; Masterson 2007) strongly indicates that they are a significant factor in the mortality of small mammals, birds (including migratory birds), reptiles, and amphibians in Florida. Because free-ranging cats often receive food from humans, they may reach abnormally high numbers. An increase in the population of feral cats may lead to increased predation rates on native wildlife. While no cats have yet been observed on the Gordon River Greenway Preserve, there exists a high probability of their future presence on the preserve due to the proximity of the Greenway to human residential areas. Adjoining residents of the preserve should be encouraged to keep their cats indoors and staff should monitor the preserve for the presence of feral cats.

3.0 Previous and Current Use of the Preserve; Adjacent Land Uses

3.1 Previous Use of the Preserve and Adjoining Lands

Historical aerial photographs taken in 1952 (Figure 7) and in 1980 (Figure 8), accompanied by more recent visits to the site, show that development has never occurred on the site; however,

portions of the property adjacent to the northwestern end of the Naples Airport runway appear to have been cleared prior to 1980. Digital images were downloaded from the Florida Department of Transportation's Aerial Photo Look Up System (2008) and georeferenced in ArcMap 9.2 by Conservation Collier Staff.

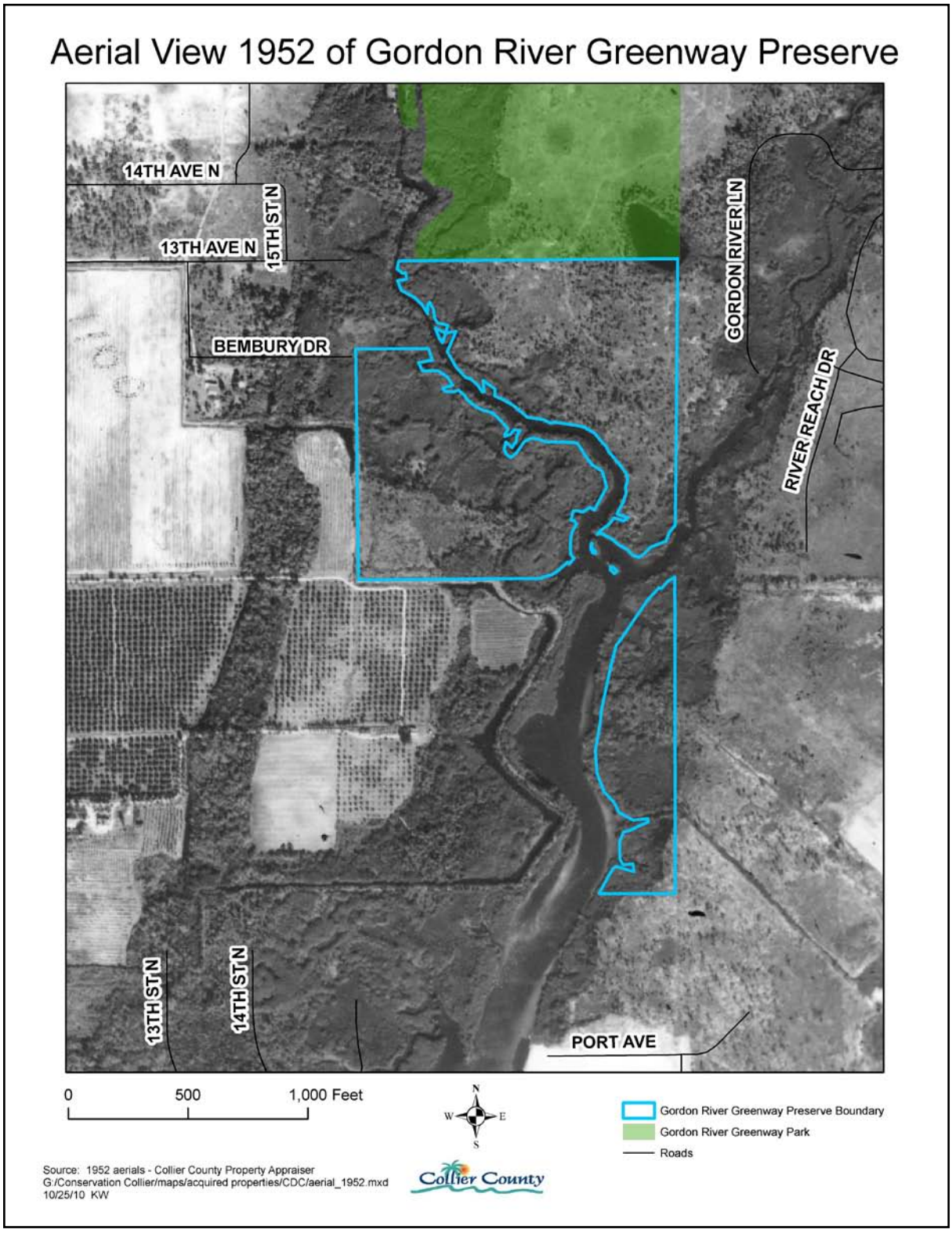

Figure 7: Historical Aerial Photograph from 1952 of the Gordon River Greenway Preserve and Adjoining Lands

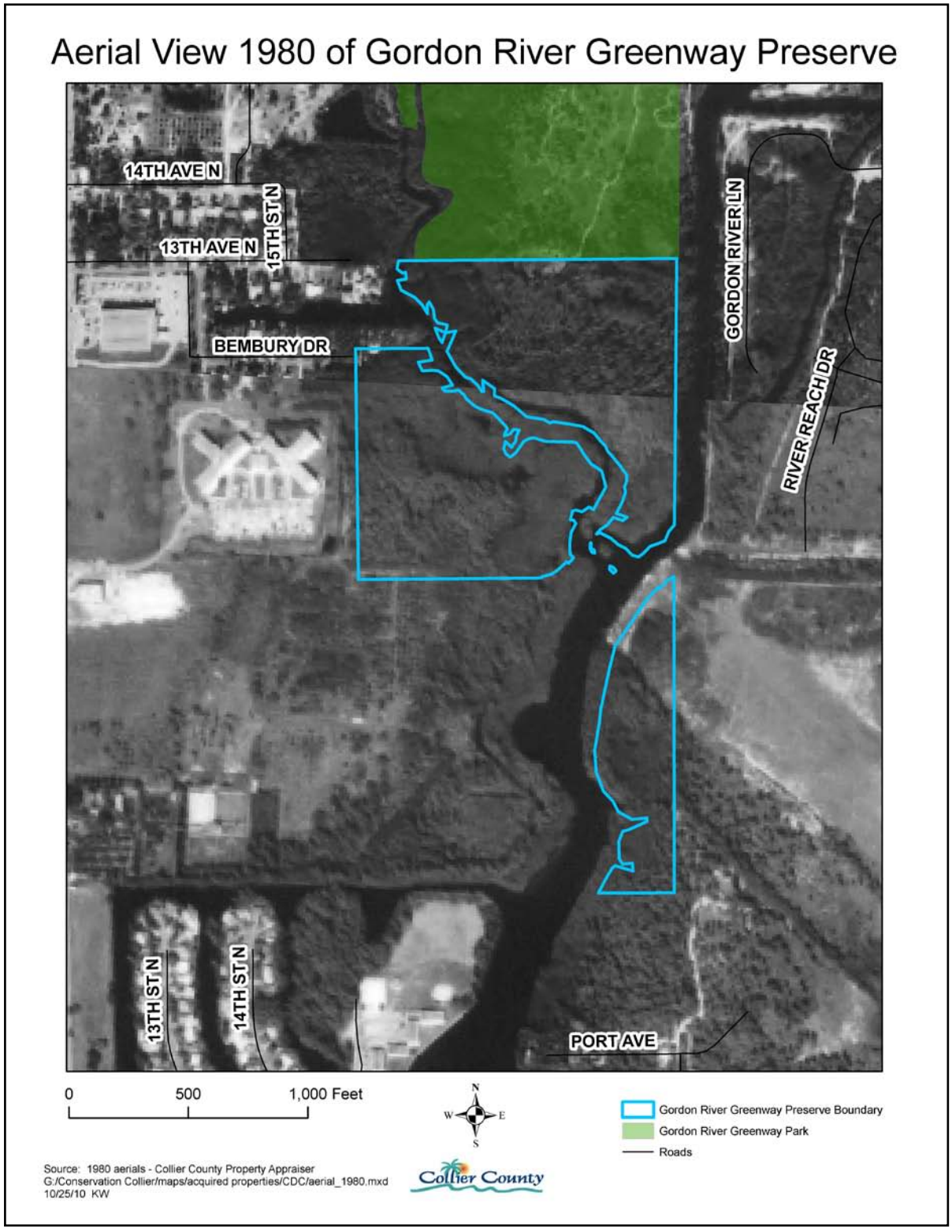

Figure 8: Historical Aerial Photograph from 1980 of the Gordon River Greenway Preserve and Adjoining Lands

3.2 Current Land Uses

Currently, there is no sanctioned public use of the Gordon River Greenway Preserve. Conservation, restoration and natural resource-based recreation are the designated uses of this preserve. Management activities allowed include those necessary to preserve, restore, secure and maintain this environmentally sensitive land for the benefit of present and future generations. Public use of the site must be consistent with these management goals and will be discussed in section 4.4 of this document.

The Collier County Parks and Rec. owned Gordon River Greenway Park property abuts the northern property line of the preserve. The preserve is surrounded on both the east and west by planned unit developments consisting of both residential and commercial properties. The City of Naples municipal boundary borders the project on the west. The Naples Airport is adjacent to the southeastern boundary of the preserve, and an undeveloped property, zoned R-1-7.5, is adjacent to the south boundary of the preserve. The Gordon River bisects the northern portion of the property and forms the western boundary of the southern portion of the property. The Golden Gate Canal forms the eastern boundary of the northern portion of the property (Figure 9).

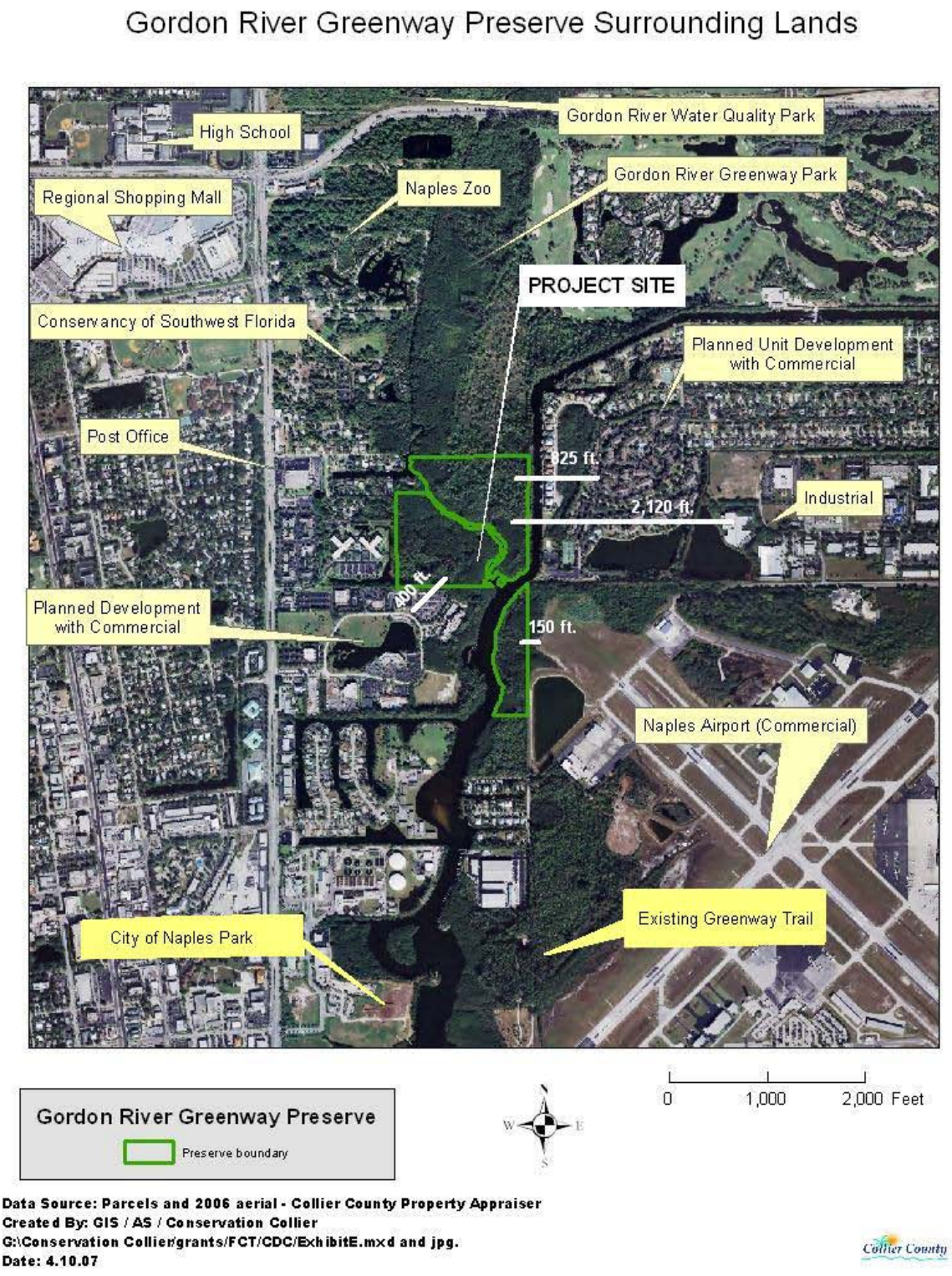

Figure 9: Areas Adjacent to the Gordon River Greenway Preserve

3.3 Cultural, Historical and Archeological Resource Protection

The Gordon River Greenway Preserve is within an area of historical and archaeological probability. A phase one cultural resource assessment completed by the Archaeological and Historical Conservancy, Inc. (AHC) in August 2007 indicates that one archaeological site (8CR978) is present on the property. AHC determined that Site 8CR978 is a prehistoric shell refuse site, consisting of redeposited remains; the total loss of integrity renders the site ineligible for listing on the National Register of Historic Places. The Florida Department of State Division of Historical Resources does not require further investigation of Site 8CR978 prior to development of a trail system through Gordon River Greenway Preserve; however, site plans will avoid disturbance in this area.

The County will notify the Division of Historical Resources immediately if evidence is found to suggest any other archaeological or historic resources are discovered. If such resources are identified on-site, staff shall cordon off the area, and a professional survey and assessment shall be instituted. The archaeologist shall prepare a report outlining results of the assessments and issue recommendations to County staff about management of any sites discovered, per provisions of the Land Development Code Section 2.2.25. This report shall be sent to the Division of Historical Resources. The County shall cooperate fully with direction from the Division of Historical Resources on the protection and management of archaeological and historical resources. The management of these resources will comply with the provisions of Chapter 267, Florida Statutes, specifically Sections 267.061 2 (a) and (b).

3.4 Major Accomplishments during Previous Years

Since the acquisition of the Gordon River Greenway Preserve, Kimley-Horn and Associates, Inc. has been hired to plan, design, and permit the preserve in conjunction with planning, designing, and permitting the Parks and Rec. property adjacent to the north. A 30% design was near completion at the time this management plan was drafted. Conservation Collier staff has also continues to explore options of funding exotic removal and boardwalk construction through grants from the Department of Environmental Protection.

4.0 Future Use of the Gordon River Greenway Preserve including Management Issues, Goals and Objectives

This section describes the main management issues, goals, and objectives for the Gordon River Greenway Preserve as well as the overall management framework. Central to the management of the Preserve is the mission of the Conservation Collier Program, and the goals and objectives set forth in this management plan.

4.1 Management Plan Framework

Each property purchased by Conservation Collier shall have its own management plan. At the time the Gordon River Greenway Preserve as purchased, the Conservation Collier Ordinance required that an “Interim” Management Plan be developed within 60 days of closing. Interim

plans include basic items such as removal of invasive exotics and trash, establishing site security, developing management partnerships and planning for public access. The interim plan for this site was officially approved in July 2006. The ordinance then requires a "Final" ten-year management plan be developed within two years; the first draft of this management plan was submitted to the Lands Evaluation and Management Subcommittee in November 2010. Because it was anticipated that the Gordon River Greenway Preserve would be incorporated into the Gordon River Greenway Park management plan, staff received BCC approval to extend the deadline for submission of the final management plan until October 2010. Once approved, this final management plan must be reviewed every five years. Final management plans, however, are considered living documents and can be updated at any time. Review of all management plans start in the Lands Evaluation and Management subcommittee and must be approved by both the CCLAAC and BCC.

4.1.1 Preserve Manager: Contact Information

The site manager for Gordon River Greenway Preserve will be a designated Collier County Environmental Specialist who may be contacted through electronic mail: ConservationCollier@Colliergov.net.

4.2 Planned Uses and Assessment of their Impacts

Future planned use will be consistent with the primary goals of conservation, preservation, restoration and maintenance of the resource. Official public use of the site will not be possible until a safe public access boardwalk and trail can be created. However, citizens that desire to visit the site prior to opening may do so by signing a waiver that will allow them access at their own risk and releases the liability of the County until safe access is established. Details of planned uses for the Gordon River Greenway Preserve and an assessment of their potential impacts are provided in the following sections.

4.2.1 Identification of Public Uses Consistent with Preservation, Enhancement, Restoration, Conservation and Maintenance of the Resources

The Conservation Collier Ordinance 2002-63 constrains the use of this property to "primary objectives of managing and preserving natural resource values and providing appropriate natural resource-based recreational & educational opportunities." Natural resource-based recreation shall mean all forms of uses, which are consistent with the goals of this program, and are compatible with the specific parcel. Such uses may include, but are not limited to hiking, nature photography, bird watching, kayaking, canoeing, swimming, hunting and fishing (Ord. No. 02-63, as amended§ 5, 12-3-02). Additionally, no dumping, use of unauthorized vehicles, or removal or destruction of natural or historical/archaeological resources will be permitted within the preserve. The goal is to allow limited, non-destructive public access to native plant communities and animal species. Currently, the preserve rules are those identified in Collier County Ordinance 76-48 (available from www.municode.com), as amended.

The following are ***consistent*** uses for this particular site: hiking, nature photography, kayaking, canoeing, fishing and bird watching. ***Inconsistent*** uses include hunting and off road vehicle use

(ORV) in addition to development of structures other than those required for limited public access and environmental education.

There are no existing easements, concessions, or leases at the Gordon River Greenway Preserve. In accordance with the management goals of the preserve, no future easements, concessions, or leases are appropriate in association with this site, other than conservation related easements. Although not an easement, it is prudent to note that the property boundary of Nature Pointe of Naples, Inc. extends across the Golden Gate Canal and encompasses all lands approximately 30 feet west of the western canal edge. These lands, which line the Golden Gate Canal and are directly adjacent to the Gordon River Greenway, are currently infested with mature Australian pine trees.

4.3 Desired Future Conditions

This section includes a description of the proposed future conditions for the site's natural areas. Management techniques to achieve these conditions are outlined in section 4.4.

After managers complete recommended management actions, Gordon River Greenway Preserve will consist of Mangrove Swamp, Scrubby Flatwoods, Harwood/Coniferous/Palm Mixed, and Mixed Wetland Hardwoods; these communities will have a similar structure and composition to those that existed before non-indigenous people settled the region and before the exclusion of fire. With the exception of a boardwalk and trail, the site will be vegetated with appropriate native flora that will provide suitable cover for a variety of wildlife species.

4.4 Goals for the 10 year period 2010-2020

A set of goals and objectives for Gordon River Greenway Preserve were developed in conjunction with the drafting of this Management Plan. The goals and objectives in this plan are tailored specifically for Gordon River Greenway Preserve based on the purposes for which the lands were acquired, the condition of the resources present, and the management issues for the property. On-site managers should be familiar with this entire Management Plan. Goals and objectives from the Interim Management Plan for the Gordon River Greenway Preserve were reviewed to determine whether they should be included in this plan. The goals and objectives presented here reflect programmatic goals and ideas of Conservation Collier personnel in charge of managing and protecting the area. These goals shall not be modified, but specific application of management techniques may take into consideration input by user groups and other stakeholders from outside the program, accommodating user needs and desires where practicable and where overarching management goals are not violated.

Management issues are discussed below in separate sections. Within each section, approaches for dealing with these issues are described. The ability to implement the specific goals and objectives identified in this plan is dependent upon the availability of funding sources. The following goals have been identified for Gordon River Greenway Preserve:

Goal 1: Remove or control populations of invasive, exotic or problematic flora and fauna

Goal 2: Develop a baseline monitoring report

Goal 3: Restore and maintain native habitats

Goal 4: Develop and implement a plan for public use consistent with environmental protection

Goal 5: Facilitate uses of the site for educational purposes

Goal 6: Determine if prescribed fire and/or mechanical treatments are feasible to decrease woody invasion resulting from past fire exclusion; if so proceed

Goal 7: Provide a plan for security and disaster preparedness

GOAL 1: *REMOVE OR CONTROL POPULATIONS OF INVASIVE, EXOTIC OR PROBLEMATIC FLORA AND FAUNA*

Action Item 1.1 Coordinate with the Naples Airport Authority prior to removal of large Australian pines

Some of the Australian pines within the Greenway Preserve are within the flight path of the City of Naples' Airport runway. The Naples Airport Authority may have funding to assist with removal of large Australian pines from the preserve.

Action Item 1.2 Coordinate with Parks and Rec. prior to exotic plant removal in order to reduce equipment mobilization costs

Action Item 1.3 Acquire services of licensed and qualified contractor(s) for the removal of invasive, exotic or problematic plant species.

The following (Table 9) describes recommended controls (Langeland & Stocker 2001) of the Category I, invasive, exotic plant species recorded to date on the Gordon River Greenway Preserve. These recommended control methods may be altered by site managers dependent on new information and products available on the control of these species.

Table 9: Invasive, Exotic Plant Species Control Plan for the Gordon River Greenway Preserve FLEPPC Category I species [a]		
Common Name	**Scientific Name**	**Recommended Control(s)[b]**
Air potato	*Dioscorea bulbifera*	Manual: cut vines that are high in trees; cut bulbils and remove from site. Dig up underground tubers if possible. Foliar: 1%-2% Roundup or Touchdown Pro. Cut stem: 10% Garlon 4.
American evergreen	*Syngonium podophyllum*	Manual: hand pull vegetation and remove from site or destroy (place in plastic bags until decomposed). Foliar: 3% Garlon 4. Basal stem: 10% Garlon 4. Multiple treatments are required.
Australian umbrella tree	*Schefflera actinophylla*	Large individuals (>10 inches diameter) have proven extremely difficult to eradicate. Cut stump (recommended): 50% Garlon 3A or 10% Garlon. Basal bark (if a cut-stump treatment is not possible): wide band of 10% Garlon 4 on smaller individuals and 20% Garlon 4 on larger individuals. It may take up to 9 months to kill large trees.
Australian pine	*Casuarina* sp.	Basal bark treatment with 10% Garlon 4 is very effective, as is a cut-stump treatment with 50% Garlon 3A or 10% Garlon 4. When basal bark treatment is used on trees greater than 1 foot in diameter it may be necessary to slough off loose bark in the application area to prevent the bark from trapping the herbicide. Broadcut or 4-6 lb Velpar ULW may be used when appropriate.
Bishopwood	*Bischofia javanica*	Basal bark: 10%-20% Garlon 4. Frill/girdle (larger trees): 20% Garlon 4. Manual: hand pull seedlings.
Brazilian pepper	*Schinus terebinthifolius*	Hand pull seedlings or cut-stump treatment with 50% Garlon 3A, 10% Garlon 4 or a basal bark application of 10% Garlon 4. Foliar application of Garlon 4, Garlon 3A, Roundup Pro, Roundup Super Concentrate, or Rodeo, according label directions may be used where appropriate. Glyphosate products are less effective when used alone in spring and early summer. Use Rodeo where plants are growing in aquatic sites.
Carrotwood	*Cupaniopsis anacardioides*	Hand pull seedlings or basal bark application of 100% Pathfinder II, or 10%-20% Garlon 4 diluted with oil; or cut stump application of 10% Garlon 3A, 100% Brush-B-Gon, 100% Roundup Pro, 100% Rodeo, or equivalent glyphosate containing product, or 100% Pathfinder II.
Downy rosemyrtle	*Rhodomyrtus tomentosa*	Basal bark or cut stump (individual plants): 10%-20% Garlon 4. Re-treatmentmay be necessary. Foliar: 1% Arsenal + 2% Roundup or 2 quarts Vanquish/acre in 50 gallons spray volume.
Indian laurel	*Ficus microcarpa*	Basal bark: 10% Garlon 4.
Java Plum	*Syzygium cumini*	Cut stump: 50% Garlon 3A or 10% Garlon 4. Basal bark: 10%-20% Garlon 4 or Pathfinder II.
Lantana	*Lantana camara*	Basal bark: 10% Garlon 4. Cut stump: 50% Garlon 3A or 10% Garlon 4.
Latherleaf	*Colubrina asiatica*	Basal bark: 10%-20% Garlon 4 or undiluted Pathfinder II. Cut-stump: 50% Garlon 3A. Foliar: 3% Garlon 3A or Garlon 4. Follow up for 3 to 4 weeks. Manual: hand pull seedlings.
Melaleuca	*Melaleuca quinquenervia*	For seedlings and saplings: (1) hand pull, being sure not to break plant off of root system and remove or place in piles to help reduce the chance that they will re-root or; (2) Treat with foliar, low volume spot application of 5% Rodeo. For mature trees: (1) Fell large trees with chain saw leaving a level surface, or fell small trees with machete and treat with triclopyr or glyphosate products according to frill and girdle directions on SLN. Use aquatic versions where standing water is present. Monitor for resprouting and retreat as necessary. (3) Mature trees are very difficult to control with foliar applications.

Napiergrass	*Pennisetum purpureum*	Foliar: 1%-3% Roundup. If nontarget damage is a concern, cut stems to ground level and allow sprouts to reach 8-12 inches and treat the same as Neyraudia. Broadcast 3-5 quart/acre Roundup Pro, 2 quart/acre Arsenal, or 1 quart Arsenal and 2 quart Roundup Pro.
Rosary pea	*Abrus precatorius*	Basal stem: 10% Garlon 4. Foliar: 5% Roundup (low volume). Remove seed pods if possible. Site must be revisited several times to pull seedlings.
Shoebutton ardisia	*Ardisia elliptica*	Basal bark: 10% Garlon. Cut stump: 50% Garlon 3A. Manual: hand pull seedlings.
Small-leaf climbing fern	*Lygodium microphyllum*	Foliar: For ground applications, cut plants that grow high into trees; thoroughly spray foliage to wet with 1%-2% Roundup or Rodeo, 2% Garlon 3A, 1% Plateau, or equivalent of 1-2 ounces Escort XP/100 gallon diluent; light infestations use 2%-4% Roundup or Rodeo (low volume). For aerial application, 7.5 pints Rodeo or 2 ounces Escort XP in sufficient volume and using spray pattern to maximize coverage.
Torpedograss	*Panicum repens*	Foliar: 0.75% - 1.5% Rodeo and/or 0.5% Habitat, 4 pints Habitat per acre, or 5%Rodeo low volume spot treatment.
Valamuerto	*Senna pendula var. glabrata*	The following foliar applications on a spray-to-wet basis have been found effective: 1.0% Roundup Pro, 0.5% Garlon 3A + 0.375% Induce, 0.50 oz/gal Escort + 0.375% Induce, 3.13% Brush-B-Gon. Basal bark application of 10% Garlon 4 in oil is used by the Southwest Florida Water Management District (Mack Sweat, 2003 personal communication).
Woman's Tongue	*Albizia lebbeck*	Basal bark: 20% Garlon 4 or undiluted Pathfinder II. Cut stump: 50% Garlon 3A or 10% Garlon 4, follow-up treatments necessary for root sprouts with 10% Garlon 4.

[a] **FLEPPC 2007: Category I plants** are those that alter native plant communities by displacing native species, change community structures or ecological functions, or hybridize with natives.
[b] Langeland & Stocker 2001

<u>Action Item 1.4</u> Enact regular maintenance events a maximum of 3 months after initial exotic removal

A qualified, licensed contractor will be hired to do follow-up maintenance immediately following initial maintenance. Growth of vines and category II exotic species may be intense following initial removal of monocultures of category I species within the preserve. Treatment may be necessary within one month of initial removal, but should be completed no later than three months after initial removal. If necessary, the preserve should be swept monthly for the first year after initial treatment. Monitoring of re-growth and new invasions should be done monthly, and follow-up treatments should be done based upon findings during monitoring.

<u>Action Item 1.5</u> Avoid non-target damage to native plants and animals, especially rare species, during invasive, exotic plant treatments.

Decisions on the types of herbicides utilized will be made on the best information available at the time of exotic removal. Staff has prohibited the use of herbicides containing Imazapyr (e.g., Arsenal) due to reports that these herbicides have potentially caused a great deal of non-target damage throughout the state. Licensed County or State contractors have been (and will be) monitored closely to ensure the proper herbicide applications are being utilized while treating the site. In addition, close attention will be paid to identify listed epiphytes (Table 7) that may be

attached to invasive trees being cut down or removed. Plants of these species will be relocated prior to removal. Special attention will be given to avoid damage to native species in the vicinity of exotic removal activities. Hand pulling of exotic seedlings will be done when possible.

Action Item 1.6 Monitor non-native fauna

To date, three (3) introduced animal species have been documented on the Gordon River Greenway Preserve, the squirrel monkey, the RIFA and the brown anole.

It is doubtful that the total eradication of the RIFA can be achieved. However, staff and/or contractors should take measures to remove RIFA populations close to or on public access trails.

Although they do not appear to be a detriment to the preserve, public interaction with the squirrel monkeys within the preserve should be discouraged. If the squirrel monkey population within the preserve appears to be increasing, monitoring of the population should be implemented.

If feral cat colonies are found near the preserve, the elements that sustain the undesirable population(s) should be identified and efforts made to ask property owners to eliminate them (i.e., refuse bins, dumpsters, and supplementary feeding by humans). If any feral cats remain, they will be trapped and taken to Collier County Domestic Animal Services.

GOAL 2: *DEVELOP A BASELINE MONITORING REPORT*

Action Item 2.1 Establish a long-term biological monitoring program and conduct additional wildlife surveys.

Long-term management of the preserve should be based on biological data. Changes following baseline conditions should be assessed as negative or positive, and management strategies changed appropriately. This section discusses information needs and long-term monitoring needs.

ENTRIX staff conducted a floristic inventory of the Gordon River Greenway Preserve in 2009; these findings comprise the baseline floristic data on which future actions will be based. The site should be inspected by Conservation Collier Staff at least twice a year and thoroughly inventoried at regular intervals (ca. 5-10 years) to detect new invasions (by natives or exotics) and extinctions. Areas undergoing extreme restoration should be assessed more frequently. While some wildlife data has been collected, additional baseline data should be collected, especially on invertebrates, small mammals, reptiles, and amphibians. The site manager may contract this work out or enlist the assistance of local educators to coordinate student research projects. Wildlife sampling, like plant sampling, on non-listed species only, should take place at regular intervals (ca. 5-10 years) to detect long-term trends.

Prior to restoration, photo point stations will be established within the different plant communities throughout the preserve. Locations of photo points will be recorded with a GPS and all photographs will be taken at a standard height and angle of view. During photo documentations, one photo will be taken in each of the cardinal directions (north, east, south and west). These photos will help to monitor exotic removal and native plant recruitment over time. If necessary, more photo points will be established to aid in management decision activities.

GOAL 3: *RESTORE AND MAINTAIN NATIVE HABITATS*

Action Item 3.1 Identify locations of rare and listed native plant species.

The location of these species will be identified using a global positioning system (GPS) device and mapped to allow staff to monitor them. Public trails will be constructed to avoid areas where rare and listed species exist.

Action Item 3.2 Enforce regulations prohibiting trash in or near the preserve.

Staff will monitor the trails on a regular basis and if excessive dumping or littering start to occur, enforcement actions will be sought through the County Sheriff's Department.

Action Item 3.3 Maintain a revised GIS map and description of FNAI natural communities and disturbed areas on the property.

Maintaining updated maps will help to guide restoration efforts

Action Item 3.4 Plant native plant species in their appropriate habitats

Periods following exotic removal and prescribed fire (or mechanical treatment) are essential to the recruitment of native plants. If native plant recruitment is not sufficient from the surrounding, intact seed source, efforts will be made to plant indigenous flora in appropriate habitats. Natural area restoration of Gordon River Greenway Preserve should include only site-specific native plant material that has been determined to be non-problematic at the site and whenever possible, site-specific seed sources should be utilized.

Action Item 3.5 Install signs encouraging people to stay on any future public access trails situated on the preserve.

Action Item 3.6 Note and research all site development occurring adjacent to Gordon River Greenway Preserve to determine that the proper site development permits have been obtained and that the site development complies with the permits.

Activities on adjacent lands may have an impact on the indigenous plant and animal life on the Gordon River Greenway Preserve. As such, all existing local, state, and federal regulations should be strictly followed and enforced during any site development adjacent to the preserve. It shall be the responsibility of the developer to establish erosion control measures and vegetation protection measures (i.e., protective fencing or barriers). If any site developer working in areas adjacent to the preserve does not take the necessary control measures, construction shall be immediately halted until control measures are put into place and mitigation and/or remediation will be the sole responsibility of the developer.

GOAL 4: *DEVELOPAND IMPLEMENT A PLAN FOR PUBLIC USE*

Action Item 4.1 Continue to coordinate design and permitting plans with Parks and Rec. through Kimley-Horn and Associates, Inc. (Kimley-Horn)

Kimley-Horn was selected to plan, permit and design (PPD) the Gordon River Greenway Park by Parks and Rec. via the Collier County Request for Proposal process. Prior to executing a contract with Kimley-Horn, Conservation Collier coordinated with Parks and Rec. to include the Gordon River Greenway Preserve in the Gordon River Greenway Park PPD process. This allows Collier County to PPD one single project instead of two separate projects. Kimley-Horn is responsible for designing and permitting the boardwalks, trails, shade structures/rest pavilions,

observation overlook, fishing platform, educational signage and pedestrian bridge within the Gordon River Greenway Preserve.

Action Item 4.2 Maintain visitor amenities a minimum of 100 feet from known yellow-crowned night heron rookery island

The yellow-crowned night heron is a colonial nester in swamps and marshes. A yellow-crowned night heron rookery exists on a small mangrove island at the southern extent of the project, located at the intersection of Gordon River and the Golden Gate Canal. Efforts will be made to locate the bridge as far away from this rookery as possible. Signs placed around the island to keep kayakers/ canoers and boaters away from the island may be installed if necessary.

Action Item 4.3 Identify actual and potential locations of other resident animal life and take steps such as locating visitor amenities away from animal nesting sites.

Action Item 4.4 Develop access and required facilities for intended public uses

Kimley-Horn site plans for the project, dated January 25, 2011, are currently at 30% design. See Figure 10. To be consistent with the overall project, preserve boardwalk widths will be 10 feet; trail widths will be 12 feet. Trail system will follow the approximate alignment as shown in Figure 11; however, installation of all boardwalks and trails will be field located to ensure the least impact to native vegetation. ADA trails are anticipated to occur within the upland portions of the preserve. If funding allows, a raised boardwalk trail will replace the at grade ADA trail through the scrubby flatwoods section of the preserve.

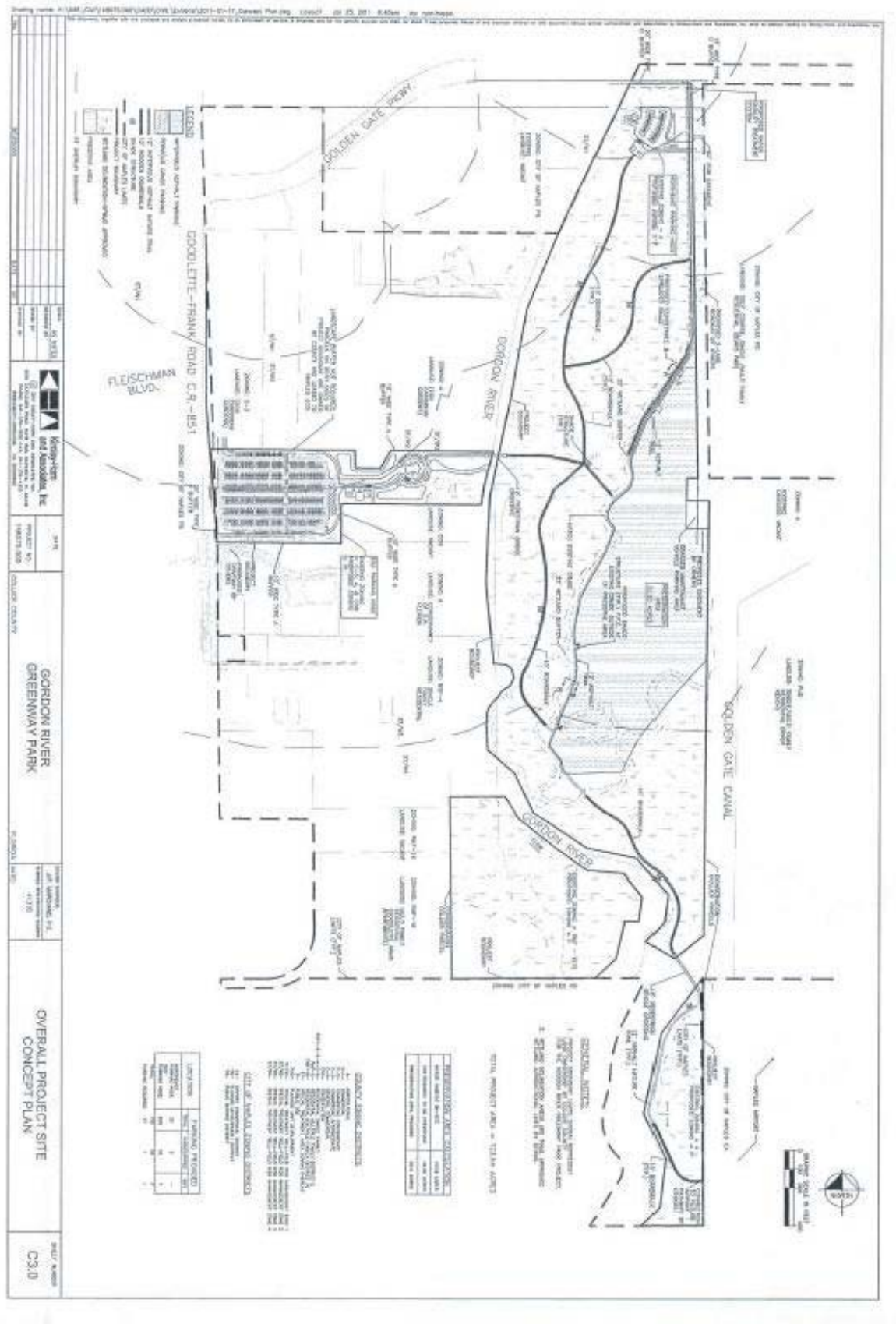

Figure 10: Gordon River Greenway Park 30% Site Construction Plan - Kimley-Horn, 1/25/11

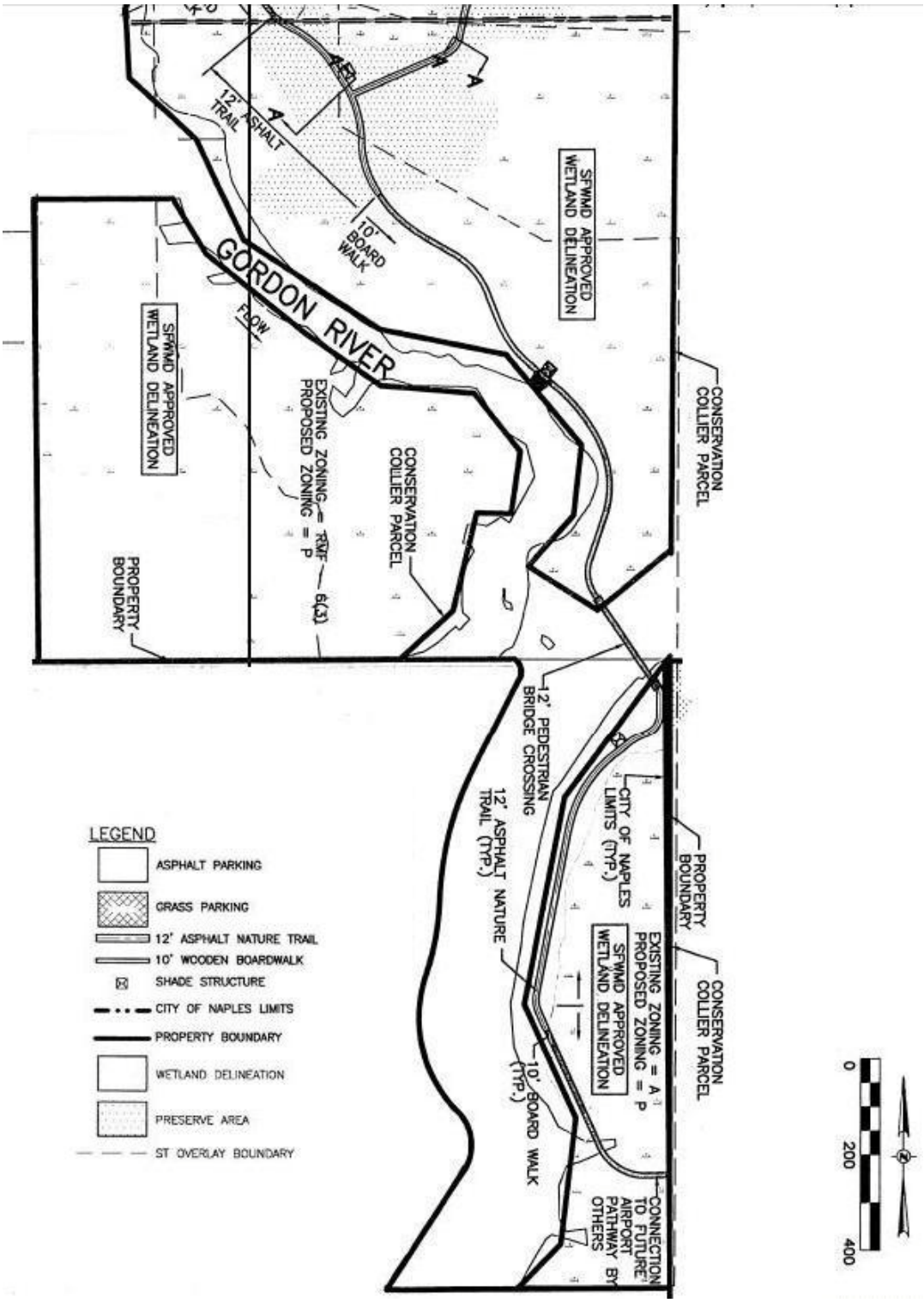

Figure 11: Gordon River Greenway Preserve 30% Site Construction Plan – Kimley-Horn, 1/25/11

GOAL 5: *FACILITATE USES OF THE SITE FOR EDUCATIONAL PURPOSES*

Actions Item 5.1 Provide preserve brochures in rainproof box on site.

A brochure outlining the native plant communities and wildlife present at the preserve will be created by County staff and kept in rainproof boxes near the preserve entrance. The preserve manager will inspect these boxes monthly and refill as necessary.

Action Item 5.2 Facilitate Parks and Rec. educational programs

Once the boardwalk, trails and bridge are complete, Parks and Rec. staff will begin educational programs along the Gordon River Greenway extending into the preserve. Conservation Collier program staff will cooperate with Parks and Rec. and assist whenever possible. Appropriate signage will be utilized for public education regarding resource conservaton.

GOAL 6: *DETERMINE IF PRESCRIBED FIRE AND/OR MECHANICAL TREATMENTS ARE FEASIBLE TO DECREASE WOODY INVASION RESULTING FROM PAST FIRE EXCLUSION; IF SO, PROCEED*

Action Item 6.1 Coordinate with Parks and Rec. to see if the adjacent Gordon River Greenway Park should be included within the burn management zones of the Gordon River Greenway Preserve.

Action Item 6.2 Develop a prescribed fire or mechanical treatment plan to mimic natural fires within the scrubby flatwoods plant community.

Unless absolutely necessary, fire breaks should not be created along ecotones. Firebreaks along ecotones prevent fires from burning across the landscape between different habitat types, and the trails themselves destroy habitat for species that require specific ecotonal habitats.

The scrubby flatwoods community within the preserve should be burned at an interval of 8-25 years. Summer headfires will probably be needed to ensure that most vegetation ignites and that the fire moves across the habitat. For best results, prescribed fire management should begin after permanent firebreaks have been established. Prior to any prescribed fires, burn teams should assess fuel loads and conduct fuel reduction where necessary, conduct risk assessment for the planned burn, obtain appropriate permits, and coordinate with local fire officials. Exotic plant species in particular should be removed prior to fires. Additionally, a plan of action for the Preserve Manager to notify surrounding residents should be established.

If the application of prescribed fire is absolutely impossible there are several alternatives that are available, although much less desirable. These options include herbicide application, mechanical treatment, and grazing. Both herbicide application and mechanical treatments have the disadvantage of requiring that dead woody material be removed from the site following treatment, limiting the amount of decomposing vegetation that would create organic soils. Even with physical removal after treatment, organic matter from all plants on the sites will eventually accumulate, leaving an organic soil, and thereby reducing diversity of native herbs. Grazing, such as by goats, has the disadvantage in introducing trampling effects, nutrients from feces, and possible spread of exotic pest plant seeds. Staff will coordinate with the Florida Division of

Forestry's Urban Fire Mitigation Team to create a burn plan for the site, conduct pre-fire fuel reduction and firebreak creation, and to conduct prescribed burns.

Action Item 6.3 If fire is deemed appropriate, delineate fire management and rescue access routes, and provide this information to the police department and emergency services.

***GOAL 7**: PROVIDE A PLAN FOR SECURITY AND DISASTER PREPAREDNESS*

Action Item 7.1 Discourage any visitation to the park after hours.

Electronic, timed gates will be installed at all entrances of the County's Greenway project. These gates will open and close automatically when the preserve is open and closed respectively. While the preserve is closed, visitors will be able to open the gates to leave the preserve, but not to enter. A sign designating the Greenway hours of operation will be installed at the 2 entrances to the preserve.

Action Item 7.2 Determine whether security lighting is appropriate along the trail system within the preserve.

Security within the preserve is inherently connected to security throughout the entire Greenway system. If lighting for security purposes is determined to be necessary, lighting within the preserve should be the minimum required and should be focused down toward the trail, so as to minimize light pollution.

Action Item 7.2 Enforce regulations prohibiting trash and landscape debris dumping in or near the preserve.

Currently, there is no vehicular access and dumping is not a problem. Monthly inspections will determine if dumping becomes a problem. Staff will work with the Collier County Sheriff's Office to address dumping if it becomes a problem.

Action Item 7.3 Survey trees along the trail and the perimeter of the property annually for damage

Staff will utilize the services of a certified arborist to determine diseased, weak, or damaged trees/limbs surrounding the trails and kiosks that should be removed for safety reasons and prior to hurricane season. This activity is intended to reduce the risk of visitor injury.

Action Item 7.4 Visit preserve within 48 hours after a storm event to assess damage.

Staff will take photos of damage and fill out appropriate Collier County Risk Management Department forms. If damage is extensive, the preserve will be closed until public safety hazards are cleared.

Action Item 7.5 Promptly clear storm debris from preserve.

If necessary, a Collier County emergency debris removal contractor will be contracted as soon as possible after the storm to schedule clean-up. Removal of debris and damaged or downed trees along the trail system may be needed. Downed trees and limbs that do not appear to be a public safety hazard will be cleared at the discretion of the Preserve Manager. As much hurricane debris as possible will be chipped and retained on-site – to be used as mulch for the trail.

4.5 Establish an Operational Plan for the Gordon River Greenway Preserve

This section provides management recommendations for operation of the Gordon River Greenway Preserve. It discusses maintenance and budgeting needs, coordination, and other management issues.

4.5.1 Maintenance

The primary maintenance activities for the preserve will include control of dumping and littering within and around the preserve and trail. Particularly important are the security measures to keep vandals out and the signage and gates in good conditions. The boardwalk and pedestrian bridge should be inspected annually for structural integrity.

4.5.2 Estimated Annual Costs and Funding Sources

Preliminary budget estimates for Gordon River Greenway Preserve include cost breakdowns associated with resource restoration and management and public access site development. The funding source identified for these activities is the Conservation Collier Program Management Trust Fund. Grants will be sought to supplement existing management funds and specifically for the costs associated with the construction of the boardwalk and pedestrian bridge.

The budget in Table 10 represents the actual and unmet budgetary needs for managing the lands and resources of the preserve for the next ten years. The table shows the activities planned and the initial and annual cost estimate of each activity. This budget was developed using data from Conservation Collier and other cooperating entities, and is based on actual costs for land management activities, equipment purchase and maintenance, and for development of fixed capital facilities. The budget considers available funding and is consistent with the direction necessary to achieve the goals and objectives for Gordon River Greenway Preserve.

Table 10: Estimated Annual Land Management Budget

Table 10: Estimated Annual Land Management Budget (Amounts in $; see assumptions for cost estimates on next page)													
Item	**QTY**	**Cost ($)**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**Total**
Facilities Development													
Boardwalk [1]	1,500 - 2,255 LF	$590 / LF		$885,000 or $1,330,450									**$885,000** or **$1,330,450**
Trails [2]	1015 - 1770 LF	$26.66 / LF		$27,060 or $47,200									**$27,060** or **$47,200**
Pedestrian Bridge	1			$384,000									**$384,000**
Shade Structures	3	$10,000 ea		$30,000									**$30,000**
Entry Gate [3]	1	$5,000 ea		$5,000									**$5,000**
Security Lighting				$285,300	$1,700	$1,700	$1,700	$1,700	$1,700	$1,700	$1,700	$1,700	**$285,300**
Interior interpretive signs [4]	3	$2,000 ea		$6,000									**$6,000**
Plant signs	30	$10			$300								**$300**
Restoration/Monitoring		t.b.d.											**t.b.d.**
Establish photo points	recurring	n/a											**$0**
Remove exotics [5]	43.54 acres			$996,000	$35,000	$35,000	$17,700	$17,700	$9,200	$9,200	$9,200	$9,200	**$1,138,200**
Regular Maintenance													
Reduce Fuel Loads [6]	2	$2,000		$2,000					$2,000				**$4,000**
General Facilities Maintenance	8	$720			$720	$720	$720	$720	$720	$720	$720	$720	**$5,760**
Brochures					$300	$100	$100	$100	$100	$100	$100	$100	**$1,000**
Grand Total				**$2,640,500 or $3,065, 810**	**$38,020**	**$37,520**	**$20,220**	**$20,220**	**$13,720**	**$11,720**	**$11,720**	**$11,720**	**$2,791,760 or $3,217,070**

Assumptions for Cost Estimates

1. Boardwalk: The length of the ADA compliant, sustainably harvested hardwood, raised boardwalk will be between 1,500 LF at $590/LF = $885,000 if the boardwalk does not extend into scrubby flatwoods, and 2,255 LF at $590/LF = $1,330,450 if the boardwalk extends into scrubby flatwoods. Unit price includes required materials, labor and equipment – comparable to Freedom Park

2. Trails: The length of an impervious trail will be between 1,015 LF at $26.66/LF = $27,060 if the boardwalk does not extend into the scrubby flatwoods, and 1,770 LF at $26.66/LF = $47,200 if the boardwalk extends into scrubby flatwoods

3. Entry Gates: 1 electronic security gate at $5,000.00 each (if deemed necessary)

4. Interpretive Signs: 3 interpretative signs (4'x6') at $2,000 each - comparable to Freedom Park

5. Remove Exotics: Exotic removal estimate from County contractor

6. Reduce Fuel Loads: Reduction of dense fuels in scrubby flatwoods - $2000 every 5 years

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Appendix 1. Legal Description of Gordon River Greenway Preserve

PROPERTY TAX IDENTIFICATION NUMBER: 00268160009

THE SOUTHEAST (SE¼) QUARTER OF NORTHEAST (NE¼) QUARTER AND THAT PART OF THE NORTHEAST (NE¼) QUARTER OF THE SOUTHEAST (SE¼) QUARTER OF SECTION 34, TOWNSHIP SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, LYING EAST OF THE CREEK, LESS AND EXCEPT THE FOLLOWING TWO PARCELS:

ALL THAT TRACT OF PARCEL OF LAND LYING AND BEING IN THE NORTHEAST (NE1/4) QUARTER OF SECTION 34, TOWNSHIP SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION OF THE EAST BOUNDARY OF STORTER SUBDIVISION WITH THE NORTH RIGHT-OF-WAY LINE OF A CANAL, RECORDED IN PLAT BOOK 5, PAGE 106; RUN IN A NORTHERLY DIRECTION 149.00 FEET, MORE OR LESS, TO THE SOUTH BOUNDARY OF GORDON RIVER HOMES SUBDIVISION, RECORDED IN PLAT BOOK 2, PAGE 84; THENCE IN AN EASTERLY DIRECTION ALONG WITH THE SOUTH BOUNDARY OF GORDON RIVER HOMES A DISTANCE OF 133.00 FEET, MORE OR LESS, TO THE MEAN HIGH WATER LINE OF GORDON RIVER; THENCE IN A SOUTHEASTERLY DIRECTION FOLLOWING THE MEANDERINGS OF THE M.H.W. LINE OF GORDON RIVER TO THE EASTERLY EXTENSION OF THE NORTH RIGHT-OF-WAY LINE OF THE CANAL IN STORTER SUBDIVISION AS RECORDED PLAT BOOK 5, PAGE 106; THENCE IN A WESTERLY DIRECTION ALONG THE EASTERLY EXTENSION OF THE NORTH RIGHT-OF-WAY LINE OF SAID CANAL TO THE POINT OF BEGINNING.

AND

A PORTION OF THE SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER, SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT KNOWN AS "POINT OF ENDING OF BULKHEAD LINE NUMBER 3" AS SHOWN AND DESCRIBED ON THE BULKHEAD LINE PLAT, RECORDED IN BULKHEAD LINE PLAT BOOK 1 AT PAGE 24, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA; RUN SOUTH 89° 42' 36" EAST, ALONG SAID BULKHEAD LINE NUMBER 3, FOR 217.80 FEET; THENCE RUN SOUTH 29° 16' 45" EAST, STILL ALONG SAID BULKHEAD LINE, FOR 144.56 FEET; THENCE RUN NORTH 89° 42' 36" WEST, FOR 289.14 FEET, TO THE WEST LINE OF THE SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER OF SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, SAID POINT BEING ON THE NORTHERLY RIGHT-OF-WAY LINE OF BEMBURY DRIVE BY POSSESSION AS MONUMENTED ON THE GROUND, SAID POINT BEING 362.32 FEET SOUTH OF THE NORTHWEST CORNER OF SAID SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER AS SHOWN ON SAID BULKHEAD PLAT (SURVEYOR'S NOTE: THE NORTHERLY RIGHT-OF-WAY LINE OF BEMBURY DRIVE IS SHOWN AS BEING 360 FEET SOUTH OF SAID NORTHWEST CORNER ON PLAT OF STORTER SUBDIVISION AS RECORDED IN PLAT BOOK 5, PAGE 106, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA); THENCE RUN NORTH 0° 17' 24" EAST, ALONG THE AFOREMENTIONED WEST LINE FOR 125.73 FEET TO THE POINT OF BEGINNING; CONTAINING 0.732 ACRES; TOGETHER WITH ALL RIPARIAN RIGHTS, INCLUDING ANY LAND CONTIGUOUS TO, AND WATERWARD OF, THE HEREIN DESCRIBED PORTION OF BULKHEAD LINE NUMBER 3.

CONSISTING OF 43.54 ACRES, MORE OR LESS.

Appendix 2. Vegetation Scheme Crosswalks/ Florida Natural Areas Inventory Plant Community Classifications

South Florida Vegetation Classification Scheme Crosswalks for Plant Communities Observed on the Gordon River Greenway Preserve							
EVSC^		**FFWCC^**	**FLGAP^**		**FLUCCS^**	**MSRP^**	**FNAI***
ID	*Name*	*Name*	*I*	*Name*	*ID* *Name*	*Name*	*Name*
FM	Mangrove forest	Mangrove Swamp	9	Mixed Mangrove Forest Formation	612 Mangrove swamps	Mangroves	Mangrove Swamp
FMa	Black mangrove forest		10	Black Mangrove Forest			
FM1	White mangrove forest		11	Red Mangrove Forest			
FM1b	White mangrove or buttonwood forest		20	Buttonwood Woodland			
FMr	Red mangrove forest		21	Mixed Mangrove Woodland			
FMx	Mixed mangrove forest		22	Black Mangrove Woodland			
FB	Buttonwood forest		23	Red Mangrove Woodland			
SM	Mangrove scrub		32	Dwarf Mangrove Ecological Complex			
SMr	Red mangrove scrub						
Sma	Black mangrove scrub						
SM1	White mangrove scrub						
SM1b	White mangrove or buttonwood scrub						
SMx	Mixed mangrove scrub						
EO	Lather leaf						
FS	Swamp forest	Xeric Oak Scrub	27	Broad-leaved Evergreen /Mixed Evergreen Shrubland	329 Other shrubs and brush	Florida Scrub	Scrubby Flatwoods
S	Scrub	Shrub Swamp	30	Gallberry/ Saw Palmetto/Titi Compositional Group		Scrubby Flatwoods	
SC	Buttonwood scrub	Shrub and Brush	35	Xeric Scrubland		Scrubby High Pine	
SP	Saw palmetto scrub		36	St. Johns Wort Shrubland Compositional Group			
SH	Hardwood scrub						
PE	Non-graminoid emergent marsh						
SB	Shrublands						
SBm	Wax myrtle						
SVPIh	Slash pines with hardwoods	Mixed Hardwood-Pine	14	Mesic-Xeric Mixed Pine/Oak/Hickory Forest Ecological Complex	434 Hardwood conifer mixed	Mesic Temperate Hammock	Upland Hardwood Forest
							Mesic Hammock
ORV	ORV trails	Barren and Urban	60	Bare soil/Clearcut	743 Spoil areas	N/A	N/A
SA	Spoil areas						
SAd	Artificial deer islands						
FS	Swamp forest	Hardwood Swamp	3	Semi-decidous/Evergreen Tropical/Subtropical Swamp Forest	617 Mixed wetland hardwoods	Flowing Water Swamps	Wet Flatwoods
FSh	Mixed hardwood swamp forest	Bottomland Hardwood Forest	17	Swamp Forest Ecological Complex		Pond Swamps	Bottomland Forest
FSx	Cypress-mixed hardwoods					Seepage Swamps	
FSa	Mixed hardwoods, cypress and pine						
FSb	Bayhead						

^ Crosswalks for 5 vegetation classification schemes used in south Florida: 1. Everglades Vegetation Classification System (EVSC, South Florida National Parks), 2. Florida Fish and Wildlife Conservation Commission (FFWCC), 3. Florida Gap Analysis Project (FLGAP, US Geological Survey), 4. Florida Land Use and Cover Classification System (FLUCCS, Florida Department of Transportation and Water Management Districts), 5. Multi-Species Recovery Project (MSRP, US Fish and Wildlife Service). Source: Gilbert 2005

* Classification of plant communities based on the Natural Communities Guide developed by Florida Natural Areas Inventory (FNAI)

Appendix 3. Preliminary Floristic Inventory of the Gordon River Greenway Preserve.

Plant list of Gordon River		
Common names	**Scientific names**	**Status**
AIR-POTATO	*Dioscorea bulbifera*	Not native N/E I
AMERICAN BEAUTYBERRY	*Callicarpa americana*	Native UPL
AMERICAN EVERGREEN	*Syngonium podophyllum*	Not native N/E I
ARECA PALM	*Dypsis lutescens*	Not Native
AUSTRALIAN UMBRELLA TREE	*Schefflera actinophylla*	N/E I
AUSTRALIAN-PINE	*Casuarina equisetifolia*	FAC N/E I
BALSAMPEAR	*Momordica charantia*	Not native
BAMBOO	*Bambusa* sp.	FACU Not Native
BANYAN TREE	*Ficus benghalensis*	Not native
BEAUTY LEAF	*Calophyllum* sp.	N/E I
BEGGARTICKS, SPANISH NEEDLES	*Bidens alba*	Native FAC
BISHOPWOOD	*Bischofia javanica*	N/E I
BLACK MANGROVE	*Avicennia germinans*	OBL
BLACKROOT	*Pterocaulon pycnostachyum*	Native
BOTTLEBRUSH THREEAWN	*Aristida spiciformis*	FAC
BRACKEN FERN	*Pteridium aquilinum*	FACU
BRAZILIAN PEPPER	*Schinus terebinthifolius*	FAC N/E I
BUSHY BLUESTEM	*Andropogon glomeratus*	Native FACW
BUTTONWOOD	*Conocarpus erectus*	FACW
CABBAGE PALM	*Sabal palmetto*	FAC
CAESARWEED	*Urena lobata*	FACU N/E II
CALLOOSE GRAPE	*Vitis shuttleworthii*	FAC
CANDYROOT	*Polygala nana*	FACW
CARDINAL AIRPLANT	*Tillandsia fasciculata*	(E) FL
CARROTWOOD	*Cupaniopsis anacardioides*	FAC N/E I
CASTORBEAN	*Ricinus communis*	N/E II
CHAPMAN'S OAK	*Quercus chapmanii*	Native
CHINABERRYTREE	*Melia azedarach*	N/E II
COASTALPLAIN STAGGERBUSH	*Lyonia fruticosa*	FAC
COCO PLUM	*Chrysobalanus icaco*	FACW
COCONUT PALM	*Cocos nucifera*	FACU not native
COINVINE	*Dalbergia ecastaphyllum*	FACW
COMMON DAYFLOWER	*Commelina diffusa*	NoT Nativ FACW
COMMON RAGWEED	*Ambrosia artemisiifolia*	Native UPL
CORAL VINE	*Antigonon leptopus*	N/E II
CREEPING OXEYE, WEDELIA	*Sphagneticola trilobata*	FAC N/E II
CURE-FOR-ALL, PUCHEA	*Pluchea carolinensis*	FACW
CUT-LEAF PHILODENDRON	*Monstera deliciosa*	Not native
DAHOON holly	*Ilex cassine*	OBL
DOGFENNEL	*Eupatorium capillifolium*	Native FAC
DOWNY ROSE MYRTLE	*Rhodomyrtus tomentosa*	FAC N/E I
DROPSEED, PINEYWOODS	*Sporobolus junceus*	Native
DWARF LIVE OAK	*Quercus minima*	Native
EARLEAF ACACIA	*Acacia auriculiformis*	FAC N/E I
FLORIDA PAINTBRUSH	*Carphephorus corymbosus*	FACU
FLORIDA ROYAL PALM	*Roystonea regia*	FACW Endagere
FLORIDA SWAMPPRIVET	*Forestiera segregata*	FAC
FLORIDA TASSELFLOWER	*Emilia fosbergii*	Not native

FOGFRUIT, MATCHWEED	*Phyla nodiflora*	FAC
FORKED BLUECURLS	*Trichostema dichotomum*	Native
GALLBERRY	*Ilex glabra*	FACW
GIANT LEATHER FERN	*Acrostichum danaeifolium*	OBL
GOLDEN LEATHER FERN	*Acrostichum aureum*	OBL (T)
GOLDEN POLYPODY	*Phlebodium aureum*	Native
GOLDENROD	*Solidago* spp.	Native FACU
GOPHER APPLE	*Licania michauxii*	Native
GREENBRIER	*Smilax auriculata*	FACU
GREENBRIER	*Smilax* sp.	Native FACU
GROUNDCHERRY	*Physalis angulata*	FAC
GROUNDSEL TREE	*Baccharis halimifolia*	FAC Native
GUINEAGRASS	*Panicum maximum*	FAC N/E II.
GUMBO-LIMBO	*Bursera simaruba*	Native
Hamelia patens	FIREBUSH	Native
HURRICANEGRASS	*Fimbristylis cymosa*	Native FAC
INDIAN LAUREL	*Ficus microcarpa*	N/E I
INFLATED & REFLEXED WILD PINE	*Tillandsia balbisiana*	(T) FL
JAVA PLUM	*Syzygium cumini*	FAC, N/E I
LANTANA	*Lantana camara*	FACU N/E I
LATHERLEAF; ASIAN NAKEDWOOD	*Colubrina asiatica*	FAC N/E I
LEADTREE	*Leucaena leucocephala*	N/E II
LIFE PLANT	*Kalanchoe* spp.	N/E II
LIMPOGRASS	*Hemarthria altissima*	N/E II
LIVE OAK	*Quercus virginiana*	UPL
LONGAN	*Dimocarpus longan*	Not native
LOPSIDED INDIANGRASS	*Sorghastrum secundum*	FACU
LOVE VINE	*Cassytha filiformis*	FAC Native
MAHOE	*Taliparititi liliaceum*	N/E II, FAC
MAHOGANY, WEST INDIAN	*Swietenia mahagoni*	Threatened, FL
MALABAR PLUM; ROSE APPLE	*Syzygium jambos*	FAC, N/E II
MARYLAND GOLDENASTER	*Chrysopsis mariana*	UPL
MASTIC, FALSE	*Sideroxylon foetidissimum*	Native
MELALEUCA, PUNKTREE	*Melaleuca quinquenervia*	N/E I, FAC
MOTHER-IN-LAW'S TONGUE	*Sansevieria hyacinthoides*	Not native N/E II
MULLEIN NIGHTSHADE	*Solanum donianum*	Threatened, FL
MUSCADINE GRAPE	*Vitis rotundifolia*	FAC
MYRSINE	*Rapanea punctata*	FAC
NAPIERGRASS	*Pennisetum purpureum*	FAC N/E I.
NARROWLEAF SILKGRASS	*Pityopsis graminifolia*	Native
NEEDLE RUSH, BLACK RUSH	*Juncus roemerianus*	OBL Native
NETTED PAWPAW	*Asimina reticulata*	Native Endemic
OYSTER-PLANT	*Tradescantia spathacea*	N/E II
PAPAYA	*Carica papaya*	Not native
PAPER MULBERRY	*Broussonetia papyrifera*	N/E II
PARTRIDGE PEA	*Chamaecrista fasciculata*	FACU Native
PASSIONFLOWER, CORKYSTEM	*Passiflora suberosa*	Native
PENNYROYAL, WILD FALSE	*Piloblephis rigida*	Native
PINELAND ACACIA	*Acacia pinetorum*	Native
PINELAND HELIOTROPE	*Heliotropium polyphyllum*	FAC
PINGUIN	*Bromelia pinguin*	Not native
PIPEWORT, HATPINS	*Eriocaulon* spp.	OBL

PLUCHEA, SWEETSCENT	*Pluchea odorata*	FACW
POISON IVY	*Toxicodendron radicans*	FAC
POKEWEED	*Phytolacca americana*	UPL
POND APPLE	*Annona glabra*	OBL
PRICKLYPEAR	*Opuntia stricta*	FACU Threat.FL
RECLINATA, SENEGAL DATE PALM	*Phoenix reclinata*	N/E II.
RED BAY	*Persea borbonia*	FACW
RED CEDAR	*Juniperus virginiana*	FACU
RED MANGROVE	*Rhizophora mangle*	OBL
RESURRECTION FERN	*Pleopeltis polypodioides*	Native
ROSARY PEA	*Abrus precatorius*	N/E I
ROSE-RUSH	*Lygodesmia aphylla*	Native
ROYAL POINCIANA	*Delonix regia*	Not native
RUSTY STAGGERBUSH	*Lyonia ferruginea*	FAC
SAFFRON PLUM, BUMELIA	*Sideroxylon celastrinum*	FAC
SALTGRASS	*Distichlis spicata*	OBL Native
SALTWATER FALSEWILLOW	*Baccharis angustifolia*	OBL Native
SAND LIVE OAK	*Quercus geminata*	Native
SATINLEAF	*Chrysophyllum oliviforme*	Threatened, FL
SAW PALMETTO	*Serenoa repens*	FACU
SCORPIONSTAIL	*Heliotropium angiospermum*	FACU
SCRUB OAK	*Quercus inopina*	Native Endemic
SEAGRAPE	*Coccoloba uvifera*	FAC
SEASHORE PASPALUM	*Paspalum vaginatum*	OBL
SENSITIVE PEA	*Chamaecrista nictitans*	FACU Native
SEPTICWEED	*Senna occidentalis*	Not native
SHINY BLUEBERRY	*Vaccinium myrsinites*	UPL
SHOEBUTTON	*Ardisia elliptica*	FAC N/E I
SHORTLEAF GAYFEATHER	*Liatris tenuifolia*	Native
SHORTLEAF ROSEGENTIAN	*Sabatia brevifolia*	Native FACW
SHRUBBY FALSE BUTTONWEED	*Spermacoce verticillata*	Not native
SIDA, LLIMA	*Sida cordifolia*	Not native
SIMPLELEAF CHASTETREE	*Vitex trifolia*	N/E II
SLASH PINE	*Pinus elliottii*	FACW
SMALL-LEAF CLIMBING FERN	*Lygodium microphyllum*	N/E I
SNOWBERRY	*Chiococca alba*	FAC
SOUTHERN NEEDLELEAF	*Tillandsia setacea*	Native
SOUTHERN SANDBUR	*Cenchrus echinatus*	Native
SPANISH STOPPER	*Eugenia foetida*	Native
SPINY BLACK OLIVE	*Bucida molinetii*	Native
ST.JOHN'S-WORT, ATLANTIC	*Hypericum tenuifolium*	Native FACU
STRANGLER FIG; GOLDEN FIG	*Ficus aurea*	Native FAC
SUGARCANE	*Saccharum officinarum*	FACU not native
SWAMP BAY	*Persea palustris*	OBL Native
SWAMP FERN	*Blechnum serrulatum*	FACW
TICKTREFOIL	*Desmodium* sp.	Native
TORPEDOGRASS	*Panicum repens*	FACW N/E I
TREAD-SOFTLY; FINGER-ROT	*Cnidoscolus stimulosus*	Native
TREMMA, NETTLETREE	*Trema micranthum*	Native FAC
TROPICAL ALMOND, WEST INDIAN	*Terminalia catappa*	N/E II.
TURKEYBERRY	*Solanum torvum*	N/E II
TWISTED AIRPLANT	*Tillandsia flexuosa*	(T) FL

VALAMUERTO, Christmas cassia	*Senna pendula* var. *glabrata*	N/E I
VIRGINIA CREEPER	*Parthenocissus quinquefolia*	FAC
WAX MYRTLE	*Myrica cerifera*	FAC
WHITE INDIGOBERRY	*Randia aculeata*	FAC
WHITE MANGROVE	*Laguncularia racemosa*	OBL
WHITE STOPPER	*Eugenia axillaris*	Native
WHITEJACKET	*Aniseia martinicensis*	Not native
WHITEMOUTH DAYFLOWER	*Commelina erecta*	Native
WHITEWOOD	*Drypetes diversifolia*	Endangered
WILD BANYAN TREE	*Ficus citrifolia*	Native FAC
WILD COFFEE	*Psychotria nervosa*	FAC
WILD LIME	*Zanthoxylum fagara*	Native
WIREGRASS	*Aristida stricta*	FAC
WOMAN'S TONGUE	*Albizia lebbeck*	N/E I
YELLOW STARGRASS	*Hypoxis* spp.	FACW
YELLOWEYED GRASS	*Xyris* spp.	FACW

Appendix 4. Florida Natural Areas Inventory Report for the Gordon River Greenway Preserve

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

ELEMENT OCCURRENCES DOCUMENTED ON OR NEAR PROJECT SITE

Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
STYLABDI*16	Stylisma abdita	Scrub Stylisma	G3	S3	N	LE	1990-09-22	No general description given	BURCH (NO #) COLLECTED SPECIMEN.
STYLABDI*9	Stylisma abdita	Scrub Stylisma	G3	S3	N	LE	1966	No general description given	PRESENT ON SITE. SMITH AND MYINT (627) COLLECTED SPECIMEN; NUMBER NOT GIVEN.
STYLABDI*13	Stylisma abdita	Scrub Stylisma	G3	S3	N	LE	1990-09-25	No general description given	BURCH (NO #) COLLECTED SPECIMEN.
GOPHPOLY*197	Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS	ZZ	No general description given	No EO data given
SCIUAVIC*1	Sciurus niger avicennia	Mangrove Fox Squirrel	G5T2	S2	N	LT	1985-03-09	No general description given	DOR SPECIMEN COLL. 9 MARCH 1985 BY DOUG GONZALES.
GOPHPOLY*1059	Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS	1986-02-20	Scrub	1986-02-20: S.P. Christman, MNH, observation.
CARECARE*19	Caretta caretta	Loggerhead	G3	S3	LT	LT	1992	6.4 KM STRETCH OF GULF COASTAL BEACH.	NESTING BEACH. DATA (FROM CARETTA RESEARCH, INC., UNPUB.) PRESENTED AS YEAR: # NESTS OBSERVED (#/KM). 1979: 55 (8.9), 1978: 40 (6.3), 1977: 38 (5.9), 1976: 35 (5.5), 1975: 30 (4.7).
SCRUB****355	Scrub		G2	S2	N	N	1983-02-13	FAIRLY OPEN SAND PINE SCRUB.	No EO data given
SCRUB****356	Scrub		G2	S2	N	N	1983-02-13	FAIRLY DENSE STAND OF SANDPINE.	No EO data given
RANACAPI*45	Rana capito	Gopher Frog	G3	S3	N	LS	ZZ	No general description given	SPEC. (LA-60564). COLLECTOR N/A, DATE N/A.
HALILEUC*1063	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	2003	2005-07-12: Source does not provide a description.	Nest status: Active, 2003, 2002, 2001, 2000, 1999;(U03FWC01FLUS)
HALILEUC*1067	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	2003	2005-07-12: Source does not provide a description.	Nest status: Active, 2003; Unknown status or not assessed, 2002, 2001, 2000, 1999;(U03FWC01FLUS)
SCRUB****354	Scrub		G2	S2	N	N	1983-02-13	"SAND PINE SCRUB".	No EO data given
SCRUB****351	Scrub		G2	S2	N	N	1987	"OAK SCRUB" IN RAPIDLY URBANIZING AREA BETWEEN H. S. & SHOPPING MALL.	No EO data given
SCRUB****353	Scrub		G2	S2	N	N	ZZ	"SAND PINE SCRUB".	No EO data given

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Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
SCRUB***352	Scrub		G2	S2	N	N	1987-04-07	SAND PINE SCRUB IN RAPIDLY URBANIZING AREA BEHIND MAJOR SHOPPING MALL.	LOW, BROKEN CANOPY OF SAND LIVE OAKS, MYRTLE OAKS WITH TALLER SCATTERED SLASH PINES. TREES HARBOR VARIOUS BROMELIADS. UNDERSTORY OF SHINY LYONIA, SAW PALMETTO, ROSEMARY, GOPHER APPLE. GOPHER TORTOISES INHABIT THE SITE. 1 ACTIVE, 2 INACTIVE BURROWS SEEN.
HALILEUC*357	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	2003	No general description given	Nest status 1999-2003: Active - 2003, 2000, 1999; Inactive - 2002; Unknown/not assessed - 2001;Status 1995-98: Continuously active. (U03FWC01FLUS). Previous data (note different format) NEST: 1982-1988 ACTIVE. FLEDGED YOUNG 1983-1987.
HALILEUC*248	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	1981	No general description given	Nest status 1999-2003: Unknown/not assessed - 2003, 2002, 2001, 2000, 1999; Status 1995-98: Unknown/not assessed - 1998, 1997, 1996, 1995; (U03FWC01FLUS). Previous data (note different format) ACTIVE NEST; 0 YOUNG IN 1981,1980,1979,1978.

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

Biodiversity Matrix Report

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing
Matrix Unit ID: 39066					
Documented					
Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT
Documented-Historic					
Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS
Likely					
Mycteria americana	Wood Stork	G4	S2	LE	LE
Matrix Unit ID: 39067					
Documented-Historic					
Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS
Likely					
Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT
Mycteria americana	Wood Stork	G4	S2	LE	LE
Stylisma abdita	Scrub Stylisma	G3	S3	N	LE
Potential from any/all selected units					
Acipenser oxyrinchus desotoi	Gulf Sturgeon	G3T2	S2	LT	LS
Ardea herodias occidentalis	Great White Heron	G5T2	S2	N	N
Athene cunicularia floridana	Florida Burrowing Owl	G4T3	S3	N	LS
Crocodylus acutus	American Crocodile	G2	S1	LE,PT	LE
Dendroica discolor paludicola	Florida Prairie Warbler	G5T3	S3	N	N
Drymarchon couperi	Eastern Indigo Snake	G3	S3	LT	LT
Elytraria caroliniensis var. angustifolia	Narrow-leaved Carolina Scalystem	G4T2	S2	N	N
Eragrostis pectinacea var. tracyi	Sanibel Lovegrass	G5T1	S1	N	LE
Eretmochelys imbricata	Hawksbill	G3	S1	LE	LE
Eumops floridanus	Florida bonneted bat	G1	S1	N	LE
Forestiera segregata var. pinetorum	Florida Pinewood Privet	G4T2	S2	N	N
Gymnopogon chapmanianus	Chapman's Skeletongrass	G3	S3	N	N
Heterodon simus	Southern Hognose Snake	G2	S2	N	N
Lechea cernua	Nodding Pinweed	G3	S3	N	LT
Linum carteri var. smallii	Carter's Large-flowered Flax	G2T2	S2	N	LE
Mesic flatwoods		G4	S4	N	N
Nemastylis floridana	Celestial Lily	G2	S2	N	LE
Nolina atopocarpa	Florida Beargrass	G3	S3	N	LT
Patagioenas leucocephala	White-crowned Pigeon	G3	S3	N	LT
Picoides borealis	Red-cockaded Woodpecker	G3	S2	LE	LS
Polyrrhiza lindenii	Ghost Orchid	G2G4	S2	N	LE
Pteroglossaspis ecristata	Giant Orchid	G2G3	S2	N	LT
Puma concolor coryi	Florida Panther	G5T1	S1	LE	LE
Rallus longirostris scottii	Florida Clapper Rail	G5T3?	S3?	N	N
Rana capito	Gopher Frog	G3	S3	N	LS
Rivulus marmoratus	Mangrove Rivulus	G3	S3	C	LS
Rostrhamus sociabilis plumbeus	Snail Kite	34G5T3C	S2	LE	LE

Definitions: *Documented - Rare species and natural communities documented on or near this site.*
Documented-Historic - Rare species and natural communities documented, but not observed/reported within the last twenty years.
Likely - Rare species and natural communities likely to occur on this site based on suitable habitat and/or known occurrences in the vicinity.
Potential - This site lies within the known or predicted range of the species listed.

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

Biodiversity Matrix Report

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing
Roystonea elata	Florida Royal Palm	G2G3	S2	N	LE
Sceloporus woodi	Florida Scrub Lizard	G3	S3	N	N
Sciurus niger avicennia	Mangrove Fox Squirrel	G5T2	S2	N	LT
Trichechus manatus	Manatee	G2	S2	LE	LE
Ursus americanus floridanus	Florida Black Bear	G5T2	S2	N	LT*

Definitions: *Documented - Rare species and natural communities documented on or near this site.*
Documented-Historic - Rare species and natural communities documented, but not observed/reported within the last twenty years.
Likely - Rare species and natural communities likely to occur on this site based on suitable habitat and/or known occurrences in the vicinity.
Potential - This site lies within the known or predicted range of the species listed.

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APPENDIX B

Freedom Park

GORDON RIVER WATER QUALITY PARK
COLLIER COUNTY

WETLAND MITIGATION & MONITORING PLAN

A. Mitigation Plan

1.0 Exotic/Nuisance Removal

Exotic/nuisance species, specifically those listed in the Collier County Land Development Code Section 3.05.08, and all Category I, as defined by the latest exotic plant list published by the Florida Exotic Pest Plant Council, will be eradicated within all existing wetlands. The two co-dominant invaders located within the wetland limits are Brazilian pepper (*Schinus terebinthifolius*) and downy rose myrtle (*Rhodomyrtus tomentosa*). Other non native species observed on site include: Air potato (*Dioscorea bulbifera* and possibly *D. alata*), Java plum (*Syzygium cumini*), Old world climbing fern (*Lygodium microphyllum* and *L. japonicum*), Bishopwood (*Bischofia javanica*). Cuban laurel (*Ficus nitida*), possum grape (*Cissus sicyoides*), earleaf acacia (*Acacia auriculiformis*), shoebutton ardisia (*Ardisia elliptica*), climbing cassia (*Senna pendula*), guineagrass (*Panicum maximum*), and women's tongue (*Albizia lebbeck*).

2.0 Exotic/Nuisance Removal and Control

Exotic/nuisance plants within wetland jurisdictional areas and upland buffers will be killed in a manner consistent with current exotic removal practices while ensuring that neighboring native plants are left unharmed and the soil left as undisturbed as possible. Initial treatment of exotics should occur prior to boardwalk construction. Following the initial removal of exotics, a second application of herbicide shall be conducted within 30 days to treat re-sprouts and/or plants that were missed during the initial treatment. A bi-annual maintenance program shall be initiated six months from the second application for the first two years to keep areas within the park free of exotic/nuisance vegetation in perpetuity. Annual maintenance will occur for the following three years. The goal is to achieve a 0 percent cover of exotics immediately following any maintenance and that the total exotic and nuisance species shall constitute no more that 5 percent of total cover within 5 years of second application.

Brazilian pepper and other identified exotic trees or shrubs within the designated area shall be cut as close to ground level as possible using a hand saw or chain saw. The stump shall remain. The exposed cambium layer next to the bark around the entire circumference of the stump shall be treated with an appropriate herbicide. Herbicides will be selected based on the type of application procedure and will be selective towards aquatic environments in accordance with State and Federal regulations. The stump should be treated with herbicide within 5 minutes of cutting. All herbicides shall be used in strict accordance with the EPA label and /or Special Use Label. Hand pulling will be used on seedlings whenever possible. The exotics and nuisance species should be transported off the property in completely covered vehicles, to minimize the aerial dispersal of seeds to

EXHIBIT 3.3A

an approved upland location. The exotics should not be burned in open fires. The applicator may suggest alternative treatments that will produce equivalent or higher kill rates for exotic/nuisance species and/or equivalent or lower target damage rates for desirable species. Use of alternative treatments will be subject to the Administrator's approval.

For herbicide treatment, the Contractor shall use the following methods of application.

1. The method of application shall be pursuant to the approval from the Administrator and conditions from any required permits from the Department of Environmental Protection, Bureau of Invasive Plant Management.

2. Herbicide shall be applied under the direction of a State licensed herbicide applicator.

3. All herbicides are to be used in accordance with label requirements and/or special use labels. The contractor is solely responsible for any penalty, fine, or damages resulting from misuse of herbicides.

4. The Contractor shall be responsible for all herbicide application and handling with "Hold Harmless" protection for the Owner.

5. All herbicides shall have a marking dye to show where treatments have taken place.

6. Report and clean-up all spills in accordance with local, county, state, and Federal requirements. All incidences regarding spills of herbicides and/or gasoline shall be immediately reported to the City Administrator. In addition, these incidences shall be reported promptly in writing to the City Administrator.

7. Daily log reports shall be kept by the contractor during active treatment periods.

8. No soil herbicides will be utilized such as Spike or Velpar.

9. No fuel or herbicide storage shall be allowed on site.

10. Contractor shall police staging sites to be kept free of trash.

3.0 Native Vegetation Plantings

Native vegetation plantings will occur in the both Wetland E (Table 1) and the Corps Wetlands 1 and 2 (Table 2). Plant material will be installed after exotics are removed and the boardwalk installation is complete. The proposed planting plan is located on plan sheets L4.04 and L4.12.

EXHIBIT 3.3B

APPENDIX B

TABLE 1
SFWMD Wetland Wetland Planting Plan E
Gordon River Water Quality Park

Habitat	Elevation	Species	Common Name	Size	Spacing	Quantity
Wetland E						
Wetland Forest Mixed 630	6.5-3.0	*Acer rubrum*	red maple	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	127
		Quercus laurifolia	laurel oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	127
		Quercus virginiana	live oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	127
		Ilex glabra	gallberry	3-gallon	10' o.c.	286
		Myrica cerifica	wax myrtle	3-gallon	10' o.c.	286
		Callicarpa americana	beauty berry	3-gallon	10' o.c.	286
		Psychotria nervosa	wild coffee	3-gallon	10' o.c.	286
		Setaria geniculata	knotfoot bristlegrass	1-gallon	4' o.c.	2,670
		Spartina bakeri	sand cord grass	1-gallon	4' o.c.	2,670
		Panicum virgatum	switchgrass	1-gallon	4' o.c.	2,670
Cypress 621	3.0-1.5	*Taxodium distichum*	bald cypress	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	110
		Liquidambar styraciflua	sweet gum	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	110
		Magnolia virginiana	sweetbay	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	110
		Acer rubrum	red maple	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	110
		Quercus nigra	water oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	110
		Ilex cassine	dahoon holly	3-gallon	10' o.c.	821
		Cephalanthus occidentalis	buttonbush	3-gallon	10' o.c.	821
		Saururus cernuus	lizards tail	1-gallon	4' o.c.	3,831
		Blechnum serrulatum	swamp fern	1-gallon	4' o.c.	3,831
		Osmunda cinnamomea	cinnamon fern	1-gallon	4' o.c.	3,831
Freshwater Marsh 641	1.5-(-)0.5	*Blechnum serrulatum*	swamp fern	1-gallon	4' o.c.	164
		Osmunda cinnamomea	cinnamon fern	1-gallon	4' o.c.	164
		Thalia geniculata	alligator flag	1-gallon	4' o.c.	164
		Cladium jamaicense	sawgrass	1-gallon	4' o.c.	164
		Crinum americanum	swamp lily	1-gallon	4' o.c.	164

See Exhibit 3.4 C and 3.4 G

EXHIBIT 3.3C

APPENDIX B

TABLE 2
U.S. Army Corps Wetlands 1 and 2 Planting Plan
Gordon River Water Quality Park

Corps Wetland 1						
Wetland	5.5-3.5	*Acer rubrum*	red maple	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	35
Forested		*Quercus laurifolia*	laurel oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	35
Mixed		*Quercus virginiana*	live oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	35
630		*Ilex glabra*	gallberry	3-gallon	10' o.c.	80
		Myrica cerifica	wax myrtle	3-gallon	10' o.c.	80
		Callicarpa americana	beauty berry	3-gallon	10' o.c.	80
		Psychotria nervosa	wild coffee	3-gallon	10' o.c.	80
		Setaria geniculata	knotfoof bristlegrass	1-gallon	4' o.c.	709
		Spartina bakeri	sand cord grass	1-gallon	4' o.c.	709
		Panicum virgatum	switchgrass	1-gallon	4' o.c.	709
Corps Wetland 2						
Wetland	5.5-3.0	*Acer rubrum*	red maple	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	78
Forested		*Quercus laurifolia*	laurel oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	78
Mixed		*Quercus virginiana*	live oak	10'-12' Ht., B.B. or 7 Gal.	20' o.c.	78
630		*Ilex glabra*	gallberry	3-gallon	10' o.c.	175
		Myrica cerifica	wax myrtle	3-gallon	10' o.c.	175
		Callicarpa americana	beauty berry	3-gallon	10' o.c.	175
		Psychotria nervosa	wild coffee	3-gallon	10' o.c.	175
		Setaria geniculata	knotfoof bristlegrass	1-gallon	4' o.c.	1,634
		Spartina bakeri	sand cord grass	1-gallon	4' o.c.	1,634
		Panicum virgatum	switchgrass	1-gallon	4' o.c.	1,634

EXHIBIT 3.3D

APPENDIX B

B. Monitoring Plan

1.0 Management Activities

An 80% survival rate of planted vegetation is required at the end of the first monitoring period. Immediately after maintenance and at other times the exotic and nuisance species will constitute no more than 5% of the total cover. The 80% survival rate shall be maintained throughout the remainder of the monitoring program. The site will be monitored for a minimum of five years, bi-annually for the first three years, and annually for the last two years. At the end of five years of monitoring, the wetland areas shall have an 80% survival rate of planted vegetation, 80% coverage of desirable obligate and facultative wetland species, and total exotic and nuisance species shall constitute no more that 5 percent of total cover.

2.0 Wetland Monitoring Plan

The objective of the monitoring will be to determine the health of the wetland areas in terms of its vegetation composition. Wetland monitoring will be conducted bi-annually for the first three years and annually for the following two years. Six monitoring transects will be established as depicted on plan sheets L4.04 through L4.12. Permanent monitoring stations will be established along each transect for the purpose of performing vegetative quadrat analysis by visual inspection. Dominant vegetation, associated percent cover, approximate water depth (if appropriate), and wildlife observations will be documented during monitoring. Monitoring stations will have 3m. and 10m. quadrats for analysis of three stratums: groundcover, midstory, and canopy. Groundcover analysis will be performed in the 3m. quadrats, while midstory and canopy will be assessed in the 10m. quadrats. Rainfall data will also be collected near the project site to confirm when the greatest amounts of rainfall occur.

A report will be prepared and submitted to the appropriate agencies documenting the following parameters:

- Photographs
- Description of vegetation composition and percent coverage along a transect
- Percent cover of exotic and nuisance species
- Wildlife observations
- Water level observations
- Rainfall data will be gathered and summarized in monthly amounts

A report summarizing the findings of the data gathered will be prepared. The report will evaluate the success of the restoration and maintenance effort, activities conducted to date and any remedial activities that are necessary to ensure the success of the wetland areas. The location of transects to be monitored, photo-reference stations, and staff gauges are located on the attached Monitoring Plan.

EXHIBIT 3.3E

APPENDIX B

3.0 Mitigation, Monitoring, and Maintenance Work Schedule

The Mitigation, Monitoring, and Maintenance Work Schedule in Table 3 is subject to change based on date of permit issuance, length of Request for Proposal process, and length of time for exotic removal and boardwalk installation.

TABLE 3
Wetland Mitigation, Monitoring, and Maintenance Work Schedule
Gordon River Water Quality Park

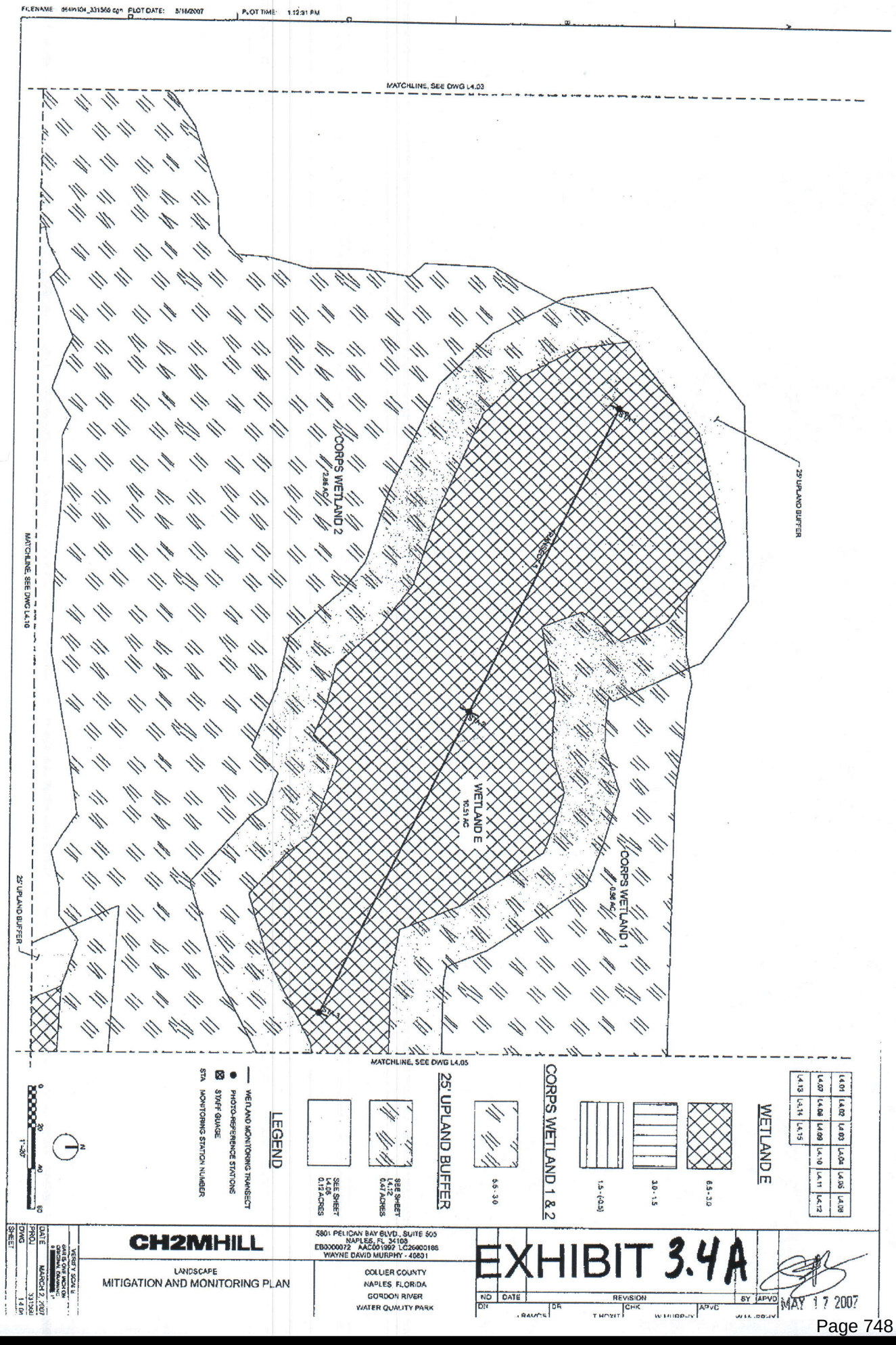
Task	Start Date	Completion Date
Begin Exotic Removal	November 2007	February 2008
Second Application to Exotics	March 2008	March 2008
Begin Boardwalk Installation	January 2008	March 2008
Begin Wetland Plantings	February 2008	April 2008
Prepare Baseline Monitoring Report	April 2008	April 2008
1st Bi-Annual Application to Exotics	September 2008	September 2008
Prepare 1st Bi-Annual Monitoring Report	October 2008	October 2008
2nd Bi-Annual Application to Exotics	March 2009	March 2009
Prepare 2nd Bi-Annual Monitoring Report	April 2009	April 2009
3rd Bi-Annual Application to Exotics	September 2009	September 2009
Prepare 3rd Bi-Annual Monitoring Report	October 2009	October 2009
4th Bi-Annual Application to Exotics	March 2010	March 2010
Prepare 4th Bi-Annual Monitoring Report	April 2010	April 2010
Prepare 5th Bi-Annual Monitoring Report	October 2010	October 2010
1st Annual Application to Exotics	March 2011	March 2011
Prepare 6th Bi-Annual Monitoring Report	April 2011	April 2011
2nd Annual Application to Exotics	March 2012	March 2010
Prepare 1st Annual Monitoring Report	April 2012	April 2012
3rd Annual Application to Exotics	March 2013	March 2013
Prepare 2nd Annual Monitoring Report	April 2013	April 2013
4th Annual Exotic Application	March 2014	March 2014
Prepare 3rd Annual Monitoring Report FINAL	April 2014	April 2014
Assess Need for Future Monitoring	April 2014	April 2014

Note: Exotic applications and wetland monitoring will continue as required by SFWMD and Army Corps.

See Exhibit 3.7

EXHIBIT 3.3F

APPENDIX B



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MATCHLINE, SEE DWG L4.10
MATCHLINE, SEE DWG L4.05
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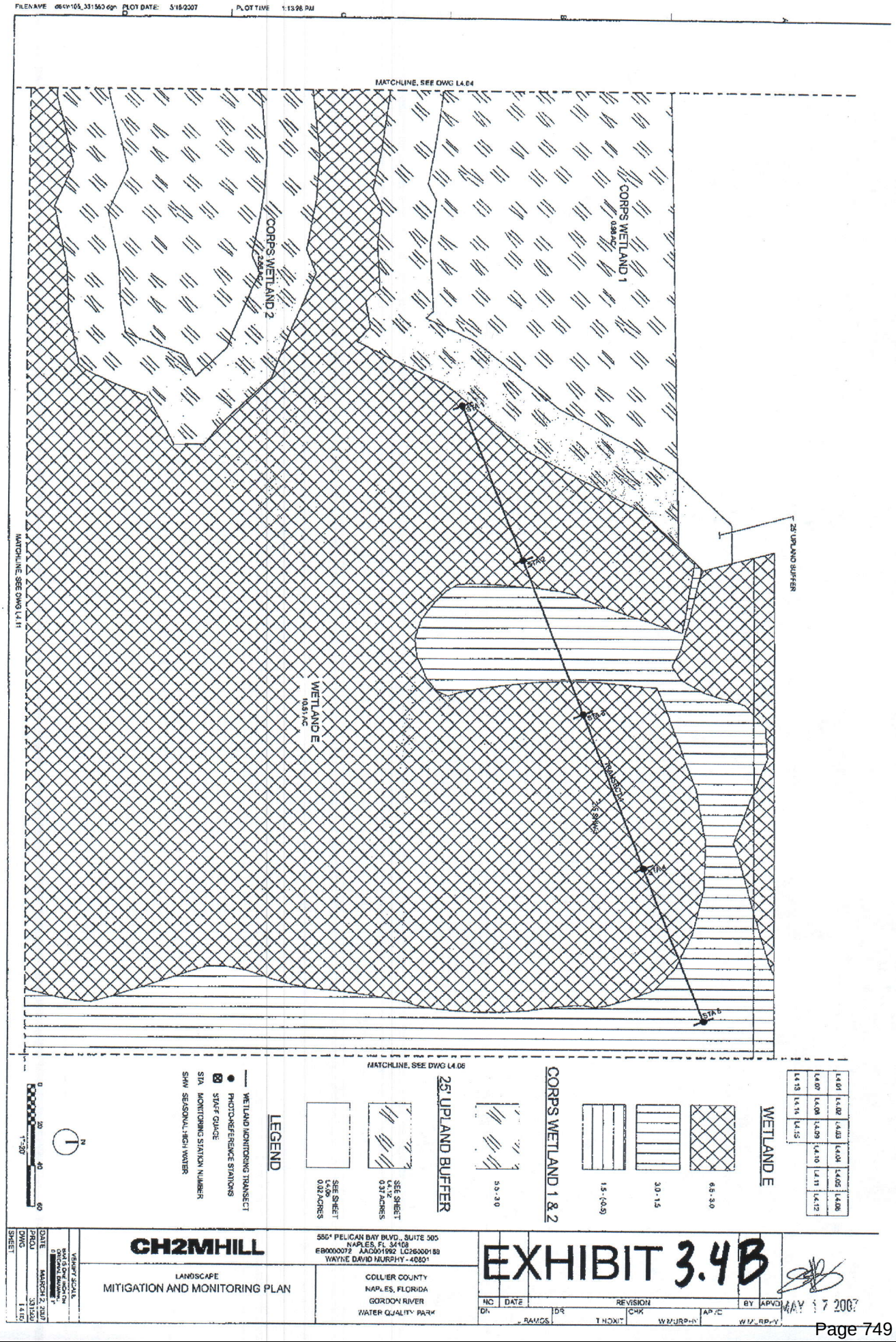
2.86 AC
WETLAND E
10.51 AC
CORPS WETLAND 1
0.98 AC
25' UPLAND BUFFER
25' UPLAND BUFFER
LEGEND
WETLAND MONITORING TRANSECT
PHOTO-REFERENCE STATIONS
STAFF GUAGE
STA MONITORING STATION NUMBER
SEE SHEET L4.06 0.12 ACRES
SEE SHEET L4.12 0.47 ACRES
25' UPLAND BUFFER
5.5 - 3.0
CORPS WETLAND 1 & 2
1.5 - (-0.5)
3.0 - 1.5
6.5 - 3.0
WETLAND E
L4.01 L4.02 L4.03 L4.04 L4.05 L4.06
L4.07 L4.08 L4.09 L4.10 L4.11 L4.12
L4.13 L4.14 L4.15
1"=20'
CH2MHILL
5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000188
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
EXHIBIT 3.4A
MAY 17 2007

APPENDIX B



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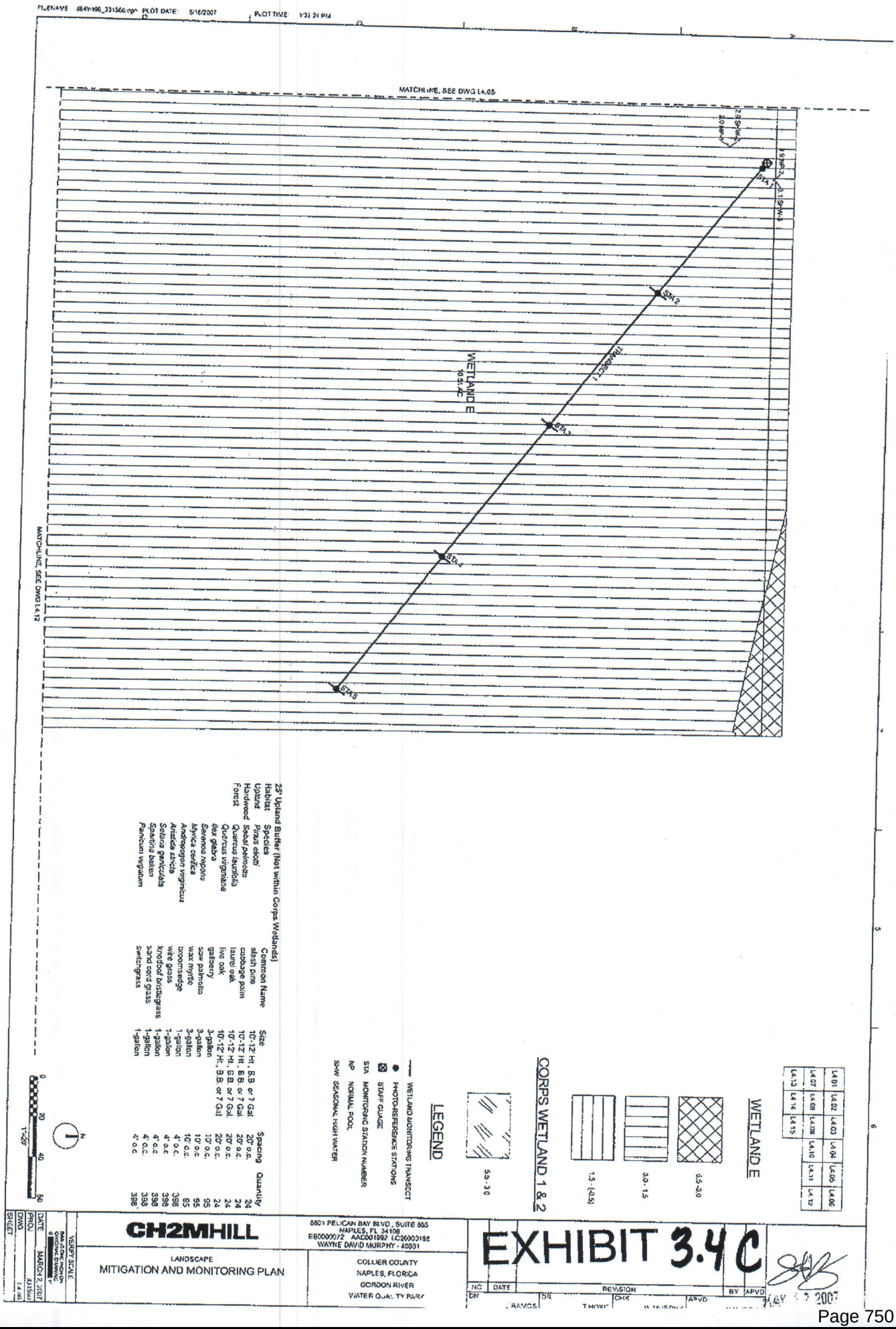
0.98 AC
CORPS WETLAND 2
2.86 AC
WETLAND E
10.51 AC
25' UPLAND BUFFER
MATCHLINE, SEE DWG L4.11
MATCHLINE, SEE DWG L4.06
LEGEND
WETLAND MONITORING TRANSECT
PHOTO-REFERENCE STATIONS
STAFF GUAGE
STA MONITORING STATION NUMBER
SHW SEASONAL HIGH WATER
25' UPLAND BUFFER
SEE SHEET L4.06 0.02 ACRES
SEE SHEET L4.12 0.37 ACRES
5.5 - 3.0
CORPS WETLAND 1 & 2
1.5 - (-0.5)
3.0 - 1.5
6.5 - 3.0
WETLAND E
L4.01 L4.02 L4.03 L4.04 L4.05 L4.06
L4.07 L4.08 L4.09 L4.10 L4.11 L4.12
L4.13 L4.14 L4.15
1"=20'
CH2MHILL
5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000188
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
EXHIBIT 3.4B
NO DATE REVISION BY APVD
DN DR CHK APVD
MAY 17 2007

APPENDIX B



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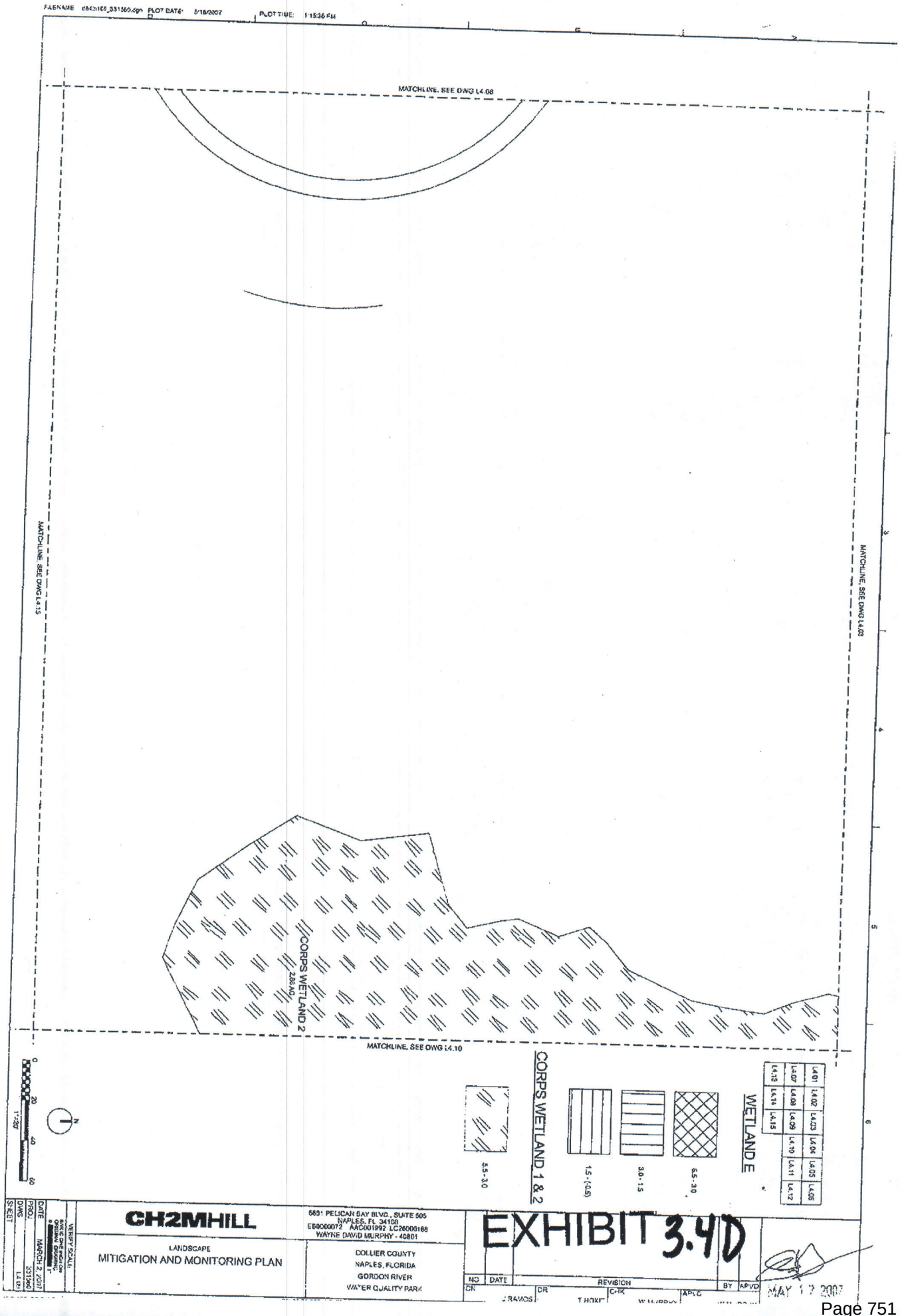
MATCHLINE, SEE DWG L4.12
WETLAND E
10.51 AC
STA 1
STA 2
STA 3
STA 4
STA 5
TRANSECT 1
25' Upland Buffer (Not within Corps Wetlands)
Habitat Species Common Name Size Spacing Quantity
Upland Pinus elliotti slash pine 10'-12' Ht., B.B. or 7 Gal. 20' o.c. 24
Hardwood Sabal palmetto cabbage palm 10'-12' Ht., B.B. or 7 Gal. 20' o.c. 24
Forest Quercus laurifolia laurel oak 10'-12' Ht., B.B. or 7 Gal. 20' o.c. 24
Quercus virginiana live oak 10'-12' Ht., B.B. or 7 Gal. 20' o.c. 24
Ilex glabra gallberry 3-gallon 10' o.c. 95
Serenoa repens saw palmetto 3-gallon 10' o.c. 95
Myrica cerifica wax myrtle 3-gallon 10' o.c. 95
Andropogon virginicus broomsedge 1-gallon 4' o.c. 398
Aristida stricta wire grass 1-gallon 4' o.c. 398
Setaria geniculata knotfoot bristlegrass 1-gallon 4' o.c. 398
Spartina bakeri sand cord grass 1-gallon 4' o.c. 398
Panicum virgatum switchgrass 1-gallon 4' o.c. 398
LEGEND
WETLAND MONITORING TRANSECT
PHOTO-REFERENCE STATIONS
STAFF GUAGE
STA MONITORING STATION NUMBER
NP NORMAL POOL
SHW SEASONAL HIGH WATER
CORPS WETLAND 1 & 2
5.5 - 3.0
1.5 - (-0.5)
3.0 - 1.5
6.5 - 3.0
WETLAND E
L4.01 L4.02 L4.03 L4.04 L4.05 L4.06
L4.07 L4.08 L4.09 L4.10 L4.11 L4.12
L4.13 L4.14 L4.15
0 20 40 60
1"=20'
N
CH2MHILL
5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000188
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
EXHIBIT 3.4 C
VERIFY SCALE
DATE MARCH 2, 2007
PROJ
DWG
SHEET
NO DATE REVISION BY APVD
DN DR CHK APVD
MAY 17 2007

APPENDIX B



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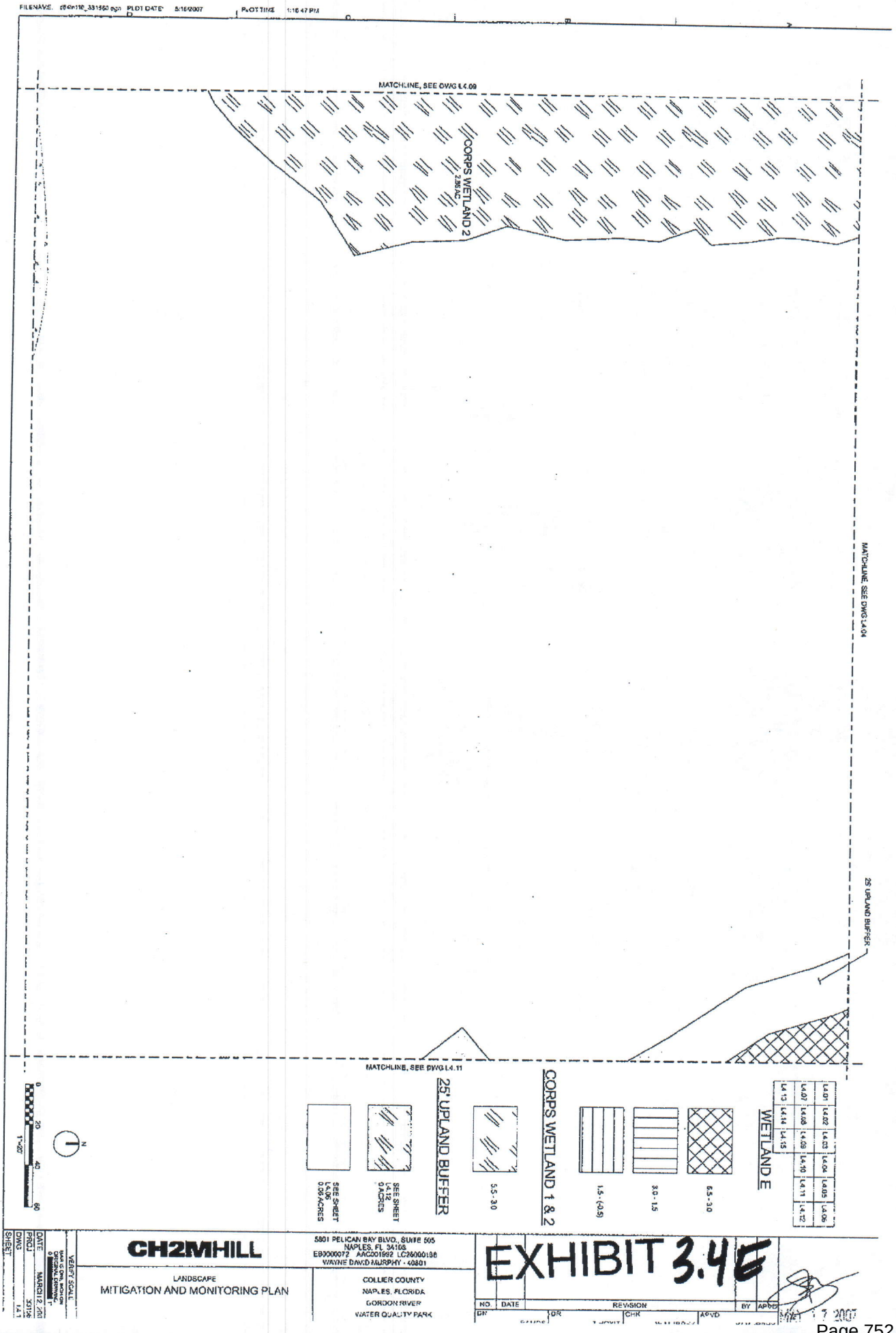
MATCHLINE, SEE DWG L4.15
MATCHLINE, SEE DWG L4.03
MATCHLINE, SEE DWG L4.10
CORPS WETLAND 2
2.86 AC
CORPS WETLAND 1 & 2
WETLAND E
5.5 - 3.0
1.5 - (-0.5)
3.0 - 1.5
6.5 - 3.0
L4.01 L4.02 L4.03 L4.04 L4.05 L4.06
L4.07 L4.08 L4.09 L4.10 L4.11 L4.12
L4.13 L4.14 L4.15
CH2MHILL
5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000168
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
EXHIBIT 3.4D
MAY 17 2007

APPENDIX B



MATCHLINE, SEE DWG L4.09
CORPS WETLAND 2
2.86 AC
MATCHLINE, SEE DWG L4.04
25' UPLAND BUFFER
MATCHLINE, SEE DWG L4.11
25' UPLAND BUFFER
CORPS WETLAND 1 & 2
WETLAND E
SEE SHEET L4.06 0.06 ACRES
SEE SHEET L4.12 0 ACRES
5.5 - 3.0
1.5 - (-0.5)
3.0 - 1.5
6.5 - 3.0
L4.01 L4.02 L4.03 L4.04 L4.05 L4.06
L4.07 L4.08 L4.09 L4.10 L4.11 L4.12
L4.13 L4.14 L4.15
1"=20'
CH2MHILL
5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000186
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
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DATE MARCH 2 2007
PROJ 301156
DWG L4.1
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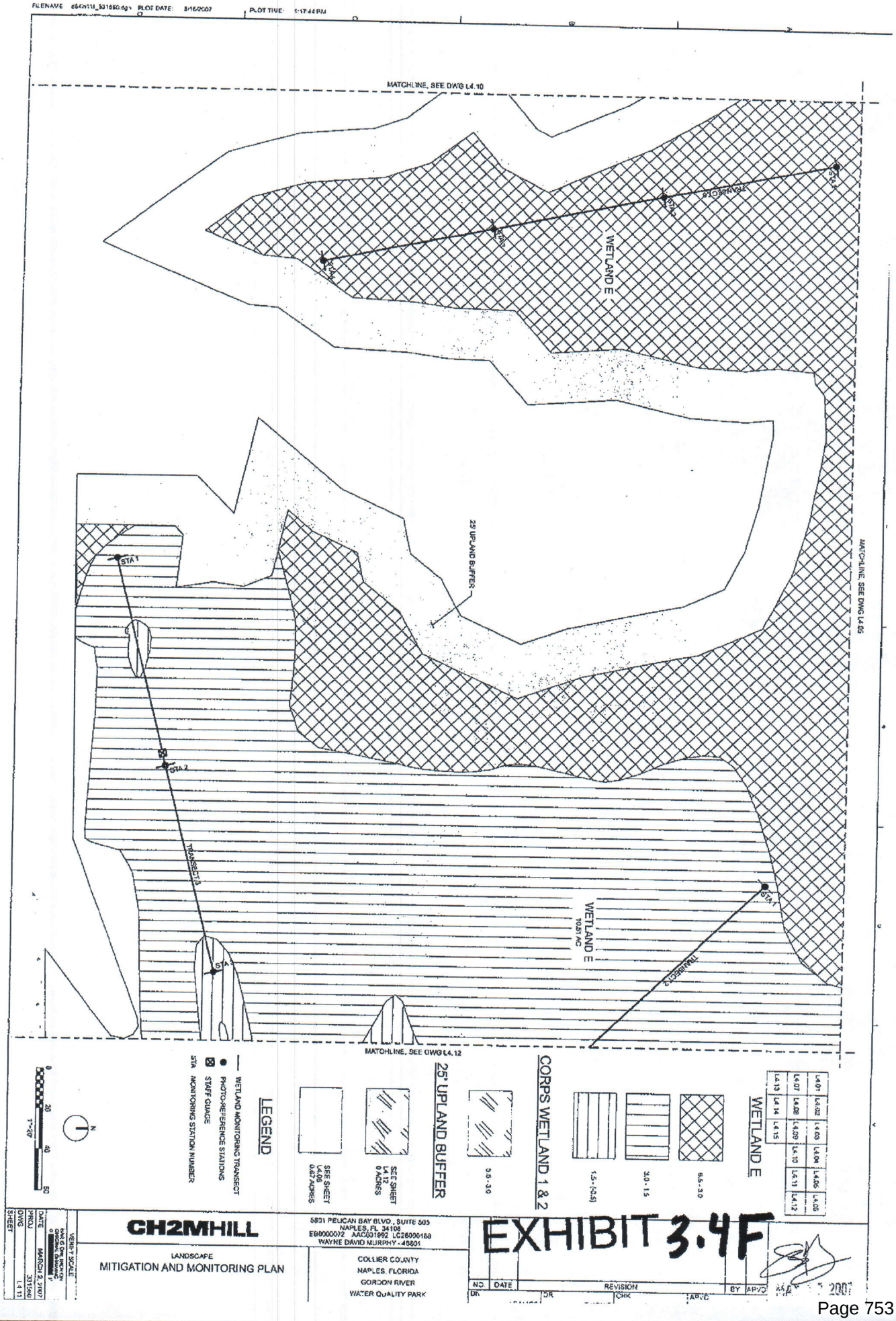
APPENDIX B



MATCHLINE, SEE DWG L4.10
WETLAND E
TRANSECT 5
STA 1
STA 2
STA 3
STA 4
25' UPLAND BUFFER
MATCHLINE, SEE DWG L4.05
STA 1
STA 2
TRANSECT 3
STA 3
WETLAND E
10.51 AC
STA 1
TRANSECT 2
MATCHLINE, SEE DWG L4.12
LEGEND
WETLAND MONITORING TRANSECT
PHOTO-REFERENCE STATIONS
STAFF GUAGE
STA MONITORING STATION NUMBER
SEE SHEET L4.06 0.67 ACRES
SEE SHEET L4.12 0 ACRES
25' UPLAND BUFFER
5.5 - 3.0
CORPS WETLAND 1 & 2
1.5 - (-0.5)
3.0 - 1.5
6.5 - 3.0
WETLAND E
L4.01 L4.02 L4.03 L4.04 L4.05 L4.06
L4.07 L4.08 L4.09 L4.10 L4.11 L4.12
L4.13 L4.14 L4.15
0 20 40 60
1"=20'
N
CH2MHILL
5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000188
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
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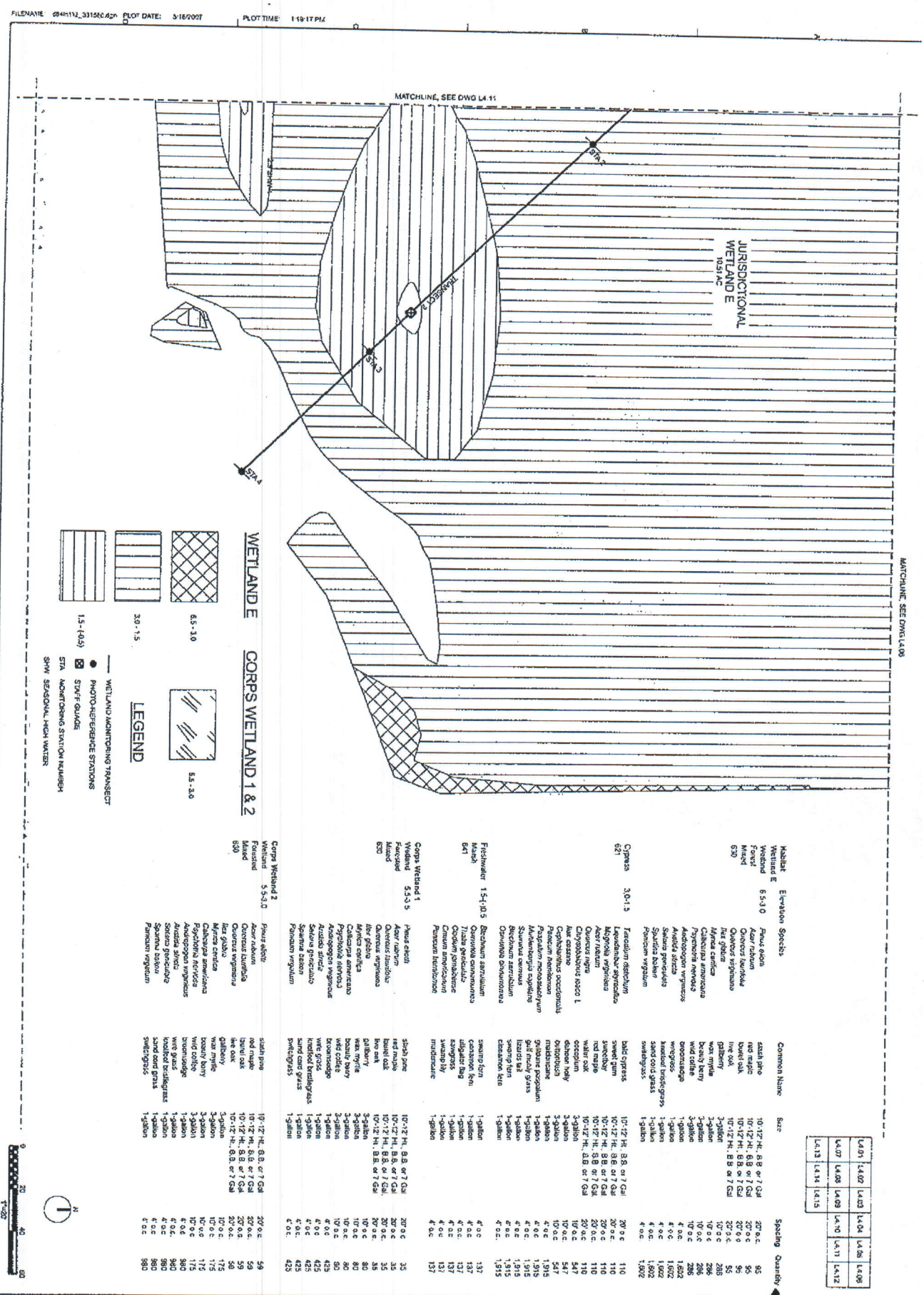
VERIFY SCALE
DATE MARCH 2, 2007
PROJ 3315N0
DWG L4.11
SHEET

APPENDIX B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JURISDICTIONAL WETLAND E
10.51 AC
STA 2
STA 3
STA 4
SHW 2
SHW 3
WETLAND E
CORPS WETLAND 1 & 2
6.5 - 3.0
5.5 - 3.0
3.0 - 1.5
1.5 - (-0.5)
LEGEND
WETLAND MONITORING TRANSECT
PHOTO-REFERENCE STATIONS
STAFF GAUGE
STA MONITORING STATION NUMBER
SHW SEASONAL HIGH WATER
Habitat
Elevation
Species
Common Name
Size
Spacing
Quantity
Wetland E
Forest
Mixed
630
6.5-3.0
Pinus elliottii
slash pine
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Acer rubrum
red maple
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Quercus laurifolia
laurel oak
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Ilex glabra
inkberry
3-gallon
3' o.c.
98
Myrica cerifera
wax myrtle
3-gallon
3' o.c.
98
Callicarpa americana
beauty berry
3-gallon
3' o.c.
175
Psychotria nervosa
wild coffee
3-gallon
3' o.c.
175
Andropogon virginicus
broomsedge
1-gallon
4' o.c.
175
Aristida stricta
wire grass
1-gallon
4' o.c.
980
Sabatia grandiflora
knotleaf bristlegrass
1-gallon
4' o.c.
980
Spartina bakeri
sand cord grass
1-gallon
4' o.c.
980
Panicum virgatum
switchgrass
1-gallon
4' o.c.
980
Cypress
621
3.0-1.5
Taxodium distichum
bald cypress
10'-12' Ht., B.B. or 7 Gal
20' o.c.
110
Nyssa sylvatica
sweet gum
10'-12' Ht., B.B. or 7 Gal
20' o.c.
110
Acer rubrum
red maple
10'-12' Ht., B.B. or 7 Gal
20' o.c.
110
Quercus nigra
water oak
10'-12' Ht., B.B. or 7 Gal
20' o.c.
110
Chrysobalanus icaco L.
coccoplum
3-gallon
10' o.c.
547
Ilex cassine
dahoon holly
3-gallon
10' o.c.
547
Cephalanthus occidentalis
buttonbush
3-gallon
10' o.c.
547
Persea borbonia
redbay
1-gallon
4' o.c.
1,915
Myrcianthes fragrans
simpson stopper
1-gallon
4' o.c.
1,915
Muhlenbergia capillaris
muhly grass
1-gallon
4' o.c.
1,915
Serenoa repens
saw palmetto
1-gallon
4' o.c.
1,915
Sisyrinchium xerophyllum
blue eyed grass
1-gallon
4' o.c.
1,915
Ophiopogon japonicus
mondo grass
1-gallon
4' o.c.
1,915
Freshwater
641
1.5-(-0.5
Sesbania punicea
red sesbania
1-gallon
4' o.c.
137
Ludwigia peruviana
primrose willow
1-gallon
4' o.c.
137
Pontederia cordata
pickerelweed
1-gallon
4' o.c.
137
Hymenocallis latifolia
spider lily
1-gallon
4' o.c.
137
Panicum hemitomon
maidencane
1-gallon
4' o.c.
137
Corps Wetland 1
Wetland
Forested
Mixed
630
5.5-3.5
Pinus elliottii
slash pine
10'-12' Ht., B.B. or 7 Gal
20' o.c.
35
Acer rubrum
red maple
10'-12' Ht., B.B. or 7 Gal
20' o.c.
35
Quercus laurifolia
laurel oak
10'-12' Ht., B.B. or 7 Gal
20' o.c.
35
Quercus virginiana
live oak
10'-12' Ht., B.B. or 7 Gal.
20' o.c.
35
Ilex glabra
gallberry
3-gallon
3' o.c.
80
Myrica cerifera
wax myrtle
3-gallon
3' o.c.
80
Callicarpa americana
beauty berry
3-gallon
3' o.c.
80
Psychotria nervosa
wild coffee
3-gallon
3' o.c.
80
Andropogon virginicus
broomsedge
1-gallon
4' o.c.
425
Aristida stricta
wire grass
1-gallon
4' o.c.
425
Sabatia grandiflora
knotleaf bristlegrass
1-gallon
4' o.c.
425
Spartina bakeri
sand cord grass
1-gallon
4' o.c.
425
Panicum virgatum
switchgrass
1-gallon
4' o.c.
425
Corps Wetland 2
Wetland
Forested
Mixed
630
5.5-3.0
Pinus elliottii
slash pine
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Acer rubrum
red maple
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Quercus laurifolia
laurel oak
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Quercus virginiana
live oak
10'-12' Ht., B.B. or 7 Gal
20' o.c.
59
Ilex glabra
gallberry
3-gallon
3' o.c.
175
Myrica cerifera
wax myrtle
3-gallon
3' o.c.
175
Callicarpa americana
beauty berry
3-gallon
3' o.c.
175
Psychotria nervosa
wild coffee
3-gallon
3' o.c.
175
Andropogon virginicus
broomsedge
1-gallon
4' o.c.
980
Aristida stricta
wire grass
1-gallon
4' o.c.
980
Sabatia grandiflora
knotleaf bristlegrass
1-gallon
4' o.c.
980
Spartina bakeri
sand cord grass
1-gallon
4' o.c.
980
Panicum virgatum
switchgrass
1-gallon
4' o.c.
980
L4.01
L4.02
L4.03
L4.04
L4.05
L4.06
L4.07
L4.08
L4.09
L4.10
L4.11
L4.12
L4.13
L4.14
L4.15
MATCHLINE, SEE DWG L4.09
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0
20
40
60
N
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5801 PELICAN BAY BLVD., SUITE 505
NAPLES, FL 34108
EB0000072 AAC001992 LC26000168
WAYNE DAVID MURPHY - 40801
LANDSCAPE
MITIGATION AND MONITORING PLAN
COLLIER COUNTY
NAPLES, FLORIDA
GORDON RIVER
WATER QUALITY PARK
EXHIBIT 3.46
NO DATE REVISION BY APVD
DR. RAMOS
DR. THOXIT
CHK W.MURPHY
APVD W.MURPHY
MAY 17 2007
DESIGNED
DRAWN
CHECKED
VERIFY SCALE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING
DATE MARCH 2, 2007
PROJ 331560
DWG L4.10
SHEET

APPENDIX B

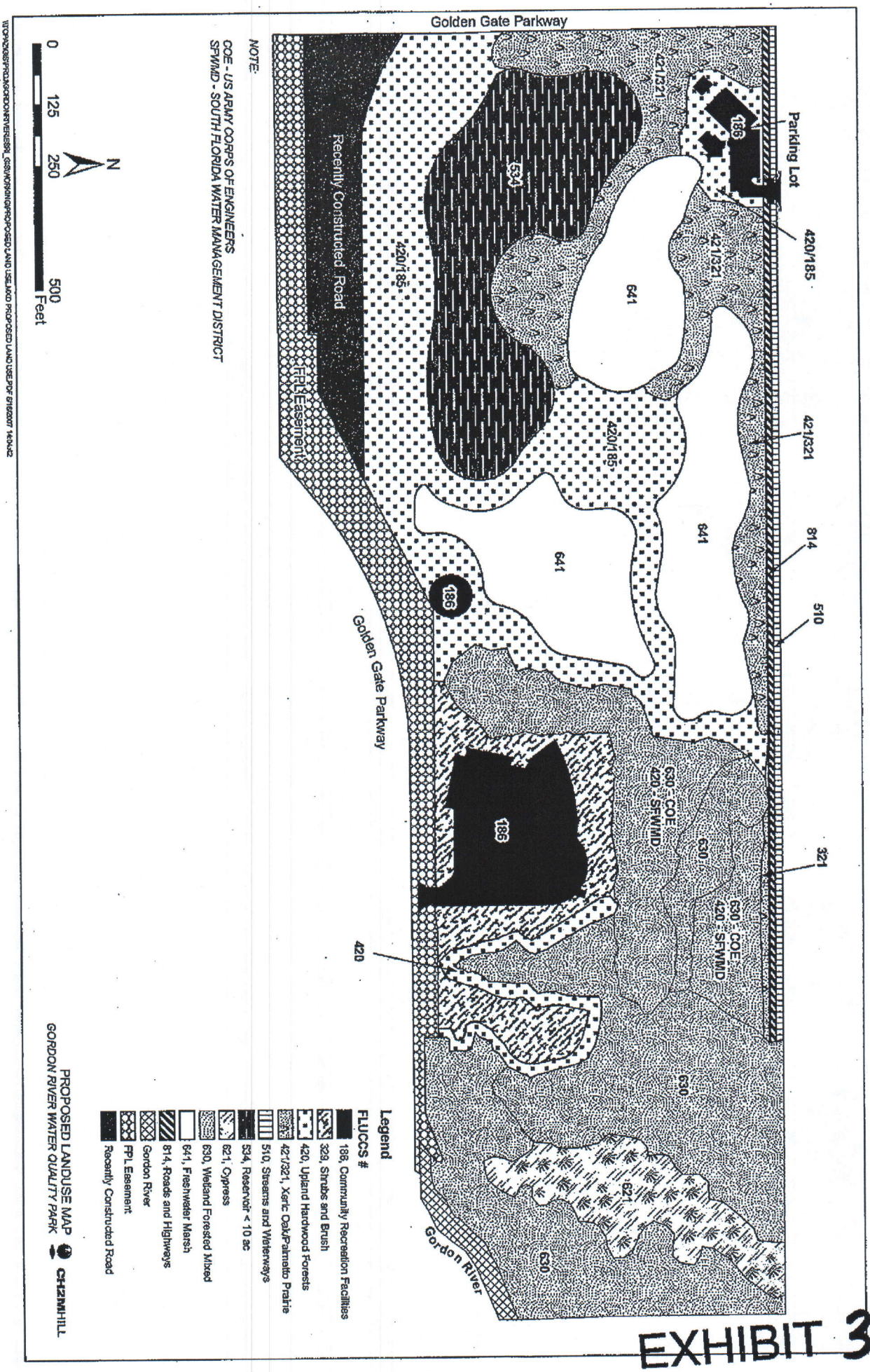

EXHIBIT 3.5

Cardno ENTRIX
Shaping the Future
Cardno ENTRIX

22 Sarasota Center Blvd.
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COLLIER COUNTY
GORDON RIVER GREENWAY PARK
MITIGATION AREA
MONITORING, MAINTENANCE AND REPORTING PLAN
REVISED: MAY 21, 2012

The Gordon River Greenway Park is a public park proposed by the Collier County Parks and Recreation Department and the County's Conservation Collier program. The subject project is located in Sections 27 and 34, Township 49 South, Range 25 East, Collier County, Florida (Latitude/Longitude: 26.168517 N /-81.784889 W), encompasses 123.6 acres, and is divided into four (4) distinct parcels (Exhibit 1). The Gordon River is a Class III waterbody that is listed as impaired due to its low dissolved oxygen concentration by the Florida Department of Environmental Protection. Additionally, the Golden Gate Canal, a major drainage canal that terminates at Naples Bay, enters the Gordon River along the eastern boundary of the largest parcel. Currently, the property contains mangrove wetlands, a freshwater wetland, and uplands, portions of which are infested with nuisance exotic species.

Impacts associated with the construction of the passive recreational park include: fill in 3.13 acres of jurisdictional wetlands and surface waters for the construction of park facilities, infrastructure and pathways; and dredging of 0.13 acres of wetlands in conjunction with construction of a canoe/kayak launch. Additionally, construction of recreational boardwalks will result in potential shading impacts to 1.61 acres of wetlands. Finally, temporary construction impacts may be required adjacent to recreational boardwalks and in some other work areas totaling an estimated 0.63 acres. Areas disrupted by this work will be restored following boardwalk construction. As part of its review, the South Florida Water Management District (SFWMD) also evaluated potential secondary impacts to 5.34 acres resulting from construction of improvements within wetlands and therefore lacking an upland buffer.

Compensatory mitigation has been provided to offset the above-mentioned impacts (Exhibit 3). Mitigation accepted by both the SFWMD and U.S. Army Corps of Engineers (COE) includes: creation/restoration of 0.20 acres of tidal mangrove wetlands adjacent to Wetland 3 (Exhibit 2); and the treatment of nuisance and exotic plants in portions of Wetland 2 and in Wetlands 3, 4 and 6 totaling 14.11 acres. Additional mitigation provided to the SFWMD, but not accepted by the COE, includes: (1) water quality enhancements within 25.0 acres of Wetland 2; and (2) treatment of nuisance and exotic plants in 21 acres of upland preservation areas bordering wetlands on the project (Exhibit 3). Additional mitigation provided to the COE, but not accepted by the SWFWMD, includes the treatment of nuisance and exotic plants in an additional 9.0 acres of Wetland 2. The mitigation areas and additional undeveloped portions of the project totaling some 104± acres will also be placed under Conservation Easement to the SFWMD and naming the COE as having third-party enforcement rights (Exhibit 3).

MANGROVE CREATION/RESTORATION

A 0.2-acre tidal mangrove creation/restoration area will be constructed adjacent to Wetland 3 where spoil deposition has previously impacted the wetland. Exhibit 2 illustrates the grading and planting plan for the

Australia • Belgium • Canada • Ecuador • Indonesia • Kenya • New Zealand • Papua New Guinea
Peru • United Arab Emirates • United Kingdom • United States • Operations in 70 countries

area. The mitigation area will be graded to be connected hydrologically to the kayak launch channel although the design of the migitation area will prevent watercraft from entering the mitigation area. The mitgation area will also be graded to tie into the surrounding edge of Wetland 3.

As depicted in Exhibit 2, the native plants will be planted in the creation/restoration area and along its perimeter to create a visual buffer between the mitigation area and adjacent passive recreational uses. Buttonwood (*Conocarpus erectus*), coco-plum (*Chrysobalanus icaco*), white mangrove (*Laguncularia racemosa*) will be planted on the northern and western edges of the mitigation area to create a buffer with adjacent recreational uses. Sand cordgrass (*Spartina bakeri*), marsh cordgrass (*Spartina patens*), seashore paspalum (*Paspalum vaginatum*) and seashore dropseed grass (*Sporabolus virginicus*) will also be planted in the buffer. White mangrove, red mangrove (*Rhizophora mangle*) and leather fern (*Acrostichum danaiefolium*) will be planted in the interior of the creation/restoration area.

MITIGATION AREA NUISANCE/EXOTIC PLANT MANAGEMENT

Currently invasive plant species coverage within the park is low but contains some concentrated areas of nuisance/exotics. Selected areas of the park in Wetlands 2, 3, 4 and 6, as well as preserved uplands on the eastern side of the park, have been specifically identified as mitigation areas where nuisance and exotic plants will be eradicated. The nuisance and exotic plant maintenance plan for these mitigation areas will target Florida Exotic Pest Plant Council (FLEPPC) Category I and II plant species, including but not limited to, Brazilian pepper (*Schinus terebinthifolius*), Australian pine (*Casuarina equisetifolia*), melaleuca (*Melaleuca quinquenervia*), and downy rose myrtle (*Rhodomyrtus tomentosa*) .

All targeted nuisance and exotic vegetation will be removed from mitigation areas where access exists for vehicles, but in areas where vehicle access is limited, coordination with the South Florida Water Management District's Compliance and Enforcement Division and/or the US Army Corps of Engineers will occur to discuss the best means possible for exotic vegetation removal. Most woody invasive species will be treated with dye-laced herbicides (via foliar, cut stump, or basal treatments) and left in place to naturally decompose if they cannot be physically removed. Melaleuca will be girdled and treated with herbicide then left in place. Other hardwoods may be basal barked and/or hand cut and removed from the site, depending on access. In uplands, downy rose myrtle will be mechanically mulched with a Fecon-style grinder and re-sprouts treated when conditions allow. Where machinery cannot be used, downy rose myrtle will be hand cut at base, left on-site, and stumps sprayed with an appropriate herbicide. Australian pine growing adjacent to the Gordon River and canal, and over 20 feet in height will be basal barked, cut and left in place or where access is appropriate removed from site. Australian pine growing under 20 feet in height and growing at least 20 feet inward from the shoreline and 20 feet away from the boardwalk/trail may be killed in place. Invasive grasses, emergent, and submergent vegetation in the wetlands and buffers will be treated by herbicides specifically labeled and designed for aquatic use and applied under the direct supervision of a state-certified aquatic herbicide applicator. Maintenance inspections and/or maintenance will be performed on a quarterly basis for the first year and on a semiannual basis thereafter. The practices outlined above are also consistent with the Conservation Collier Program's Gordon River Greenway Preserve Land Management Plan that will also be used to guide the overall management of the project parcels under control by Conservation Collier.

The mitigation areas will be maintained and treated for nuisance and exotic plant species, as needed, on a semi-annual basis for a two-year period following initial treatment to prevent re-establishment of undesirable vegetation. Following this two-year period, the areas will be monitored on an annual basis as part of the park's overall habitat management activities to determine if additional management activities are warranted to comply with agency permit conditions. Aerial coverage of more than 5 percent by

FLEPPC Category I or II nuisance or exotic species will be used as a threshold for additional management activities.

SUPPLMENTAL PLANTING

In areas where nuisance and exotic species have been removed or killed in place, the treatment areas will be assessed for the establishment of a desirable native plant community. If positive evidence of recruitment by desirable native species adequate to meet permit conditions is not evident by the second growing season following the initial exotic vegetation treatment, a remedial, supplemental planting plan will be developed and implemented after feedback from District Compliance and Enforcement Division and COE staff.

If it is determined that supplemental planting in an area is necessary planting will consist of vegetation that is established in the surrounding area within each wetland. Wetland plants used within the enhancement areas will be obtained from a nursery. Planting events will occur between March and September of that year. Vegetation will be planted on wide centers in clusters with the goal of the devoid areas becoming colonized with planted and recruited vegetation. Below is a table of representative species that may be used for supplemental planting.

Table 1. Supplemental Planting Palette

Scientific Name	Common Name	Size	FLUCFCS Type
Acrostichum danaeifolium	giant leather fern	1 qrt.	6121/6171/6301
Aristida stricta	wiregrass	4” liners	3271/3272/4111
Avicennia germinans	black mangrove	1 gal.	6121/6171/6301
Blechnum serrulatum	swamp fern	4” liners	6171/6301
Chrysobalanus icaco	cocoplum	1 gal.	6121
Coccoloba uvifera	seagrape	1 gal.	6121
Conocarpus erectus	buttonwood	1 gal.	6121
Helianthus debilis	dune sunflower	4” liners	6121
Ipomoea pes-caprae	railroad vine	4” liners	6121
Juncus romerianus	black needlerush	4” liners	6121
Laguncularia racemosa	white mangrove	1 gal.	6121/6171/6301
Myrica cerifera	wax myrtle	1 gal.	3271/3272/4111
Paspalum vaginatum	seashore paspalum	4” liners	6121
Pinus elliottii	slash pine	1 gal.	3271/3272/4111
Rhizophora mangle	red mangrove	1 gal.	6121/6171/6301
Serenoa repens	saw palmetto	1 gal.	3271/3272/4111
Spartina alterniflora	saltmarsh cordgrass	4” liners	6121
Spartina patens	marshhay cordgrass	4” liners	6121

MONITORING PLAN

General locations of mitigation monitoring transects are reflected in Exhibit 4. The specific locations of transects will be field located concurrent with the time zero monitoring event within wetland and upland enhancement areas.

Five monitoring transects will be located in Wetland 2. Two monitoring transects will be located in Wetland 6. One transect will be established in each of Wetlands 3 and 4, and the creation/restoration area

to be constructed adjacent to Wetland 3. A total of four monitoring transects will be established in the upland restoration area on the eastern side of the project. This results in a minimum of eleven (11) monitoring transects established within the enhancement areas of the park. Monitoring transects will extend across portions of the enhanced habitat areas, capturing the zone changes and habitat type change. Along each transect, quadrat sampling points will be established at grading elevational zone changes. Photo stations will also be established at fixed points and each quadrat to provide views of representative habitats within the enhancement areas. During enhancement activities, the site contractor may adjust locations of the monitoring transects to ensure representative areas are included for monitoring, and to avoid potential conflicts with on-going habitat management and park operations.

REPORTING

A time-zero monitoring report will be prepared and submitted to SFWMD and COE within 30 days of the completion of all enhancement activities. The monitoring report will include a narrative outlining the resource management, and definitive monitoring methodologies mentioned above. The report will also include supporting exhibits with the location of each fixed photo station and the photo documentation of the areas, and a table quantifying percent cover. Additionally, water depths, wildlife observations, and hydrologic observations will be noted in the report. Following the time-zero report, monitoring and agency report will be completed as required by the SFWMD and COE permits. At this time, it is anticipated that the SFWMD will require annual monitoring events and reporting for five (5) years and that the COE will require semi-annual monitoring with annual reporting in Years 1 - 3, and annual monitoring and reporting in Years 4 – 5.

MITIGATION SUCCESS CRITERIA

Mitigation areas within the park are designed to offset adverse impacts to wetlands caused by the boardwalks, kayak launch, parking, stormwater infrastructure, and park facilities. These mitigation areas will include nuisance/exotic species removal and temporary construction impact area restoration. These areas are designed to achieve viable, sustainable ecological and hydrological functions. Wetlands identified for mitigation purposes will be considered successful and will be released from monitoring and reporting requirements when the following criteria are met continuously by the end of 5-year monitoring period for a period of at least one year without intervention in the form of irrigation, the addition or removal of vegetation, or other maintenance.

0.2-acre Mangrove Creation/Enhancement Area

1. The enhancement area can be reasonably expected to develop into an estuarine broadleaved forested wetland, as determined by the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al.).

2. The dominant and subdominant species of desirable wetland plants comprising each vegetative zone and stratum of the creation/enhancement area shall be consistent with that occuring in an esturine, mangrove-dominated system. Areal coverage of planted and recruited plants will be at least 80% by FAC or wetter species.

3. Topography, water depth and water level fluctuation in the enhancement area is characteristic of esturine wetlands.

4. Planted material has a survivorship of at least 80%.

5. Species composition of recruited vegetation is indicative of the wetland types typically found in estuarine forests within historical areas of Gordon River.

6. Coverage by FLEPPC Category I or II nuisance or exotic plant species does not exceed 5 percent areal cover. Dog fennel (*Eupatorium capillifolium*), Bermudagrass (*Cynodon* spp.), Bahiagrass (*Paspalum notatum*), and cattail (*Typha* sp.) shall also total less than 5 percent areal cover.

7. The wetland enhancement area can be determined to be a wetland or other surface water according to Chapter 62-340, Florida Administrative Code.

Nuisance/Exotic Plant Enhancement Areas

1. The enhancement area can be reasonably expected to develop into an estuarine broadleaved forested wetland, as determined by the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al.).

2. The dominant and subdominant species of desirable wetland plants comprising each vegetative zone and stratum of the enhancement areas shall be consistent with the surrounding wetland or upland area. The mitigation area will achieve at least 80% areal cover by wetland plants of FAC or wetter designation.

3. Topography, water depth and water level fluctuation in the enhancement area is characteristic of wetlands that perform similar functions.

4. Species composition of recruited vegetation is indicative of the wetland types typically found in estuarine forests within historical areas of Gordon River.

5. Coverage by FLEPPC Category I or II nuisance or exotic plant species does not exceed 5 percent areal cover. Dog fennel (*Eupatorium capillifolium*), Bermudagrass (*Cynodon* spp.), Bahiagrass (*Paspalum notatum*), and cattail (*Typha* sp.) shall also total less than 5 percent areal cover.

6. The wetland enhancement area can be determined to be a wetland or other surface water according to Chapter 62-340, Florida Administrative Code.

Mitigation areas may be deemed successful and released from monitoring and reporting requirements if the Permittee demonstrates that the mitigation areas meet permit performance standards by the end of the 5-year monitoring period, with no maintenance during the 5th year of monitoring.

IMPLEMETATION SCHEDULE

The proposed schedule assumes construction activities will begin in May 2012 but is subject to change based on permit issuance from all permitting agencies, the bidding process and construction and nuisance and exotic plant removal phasing. If the project schedule changes, all dates will be adjusted accordingly.

Task	**Date**
Initiate Construction / 1st Semi-annual Nuisance and Exotic Treatment	May 2012
Initiate 2nd Semi-annual Nuisance and Exotic Treatment	November 2012
Complete Mitigation Area M-1 and 2nd Treatment	April 2013

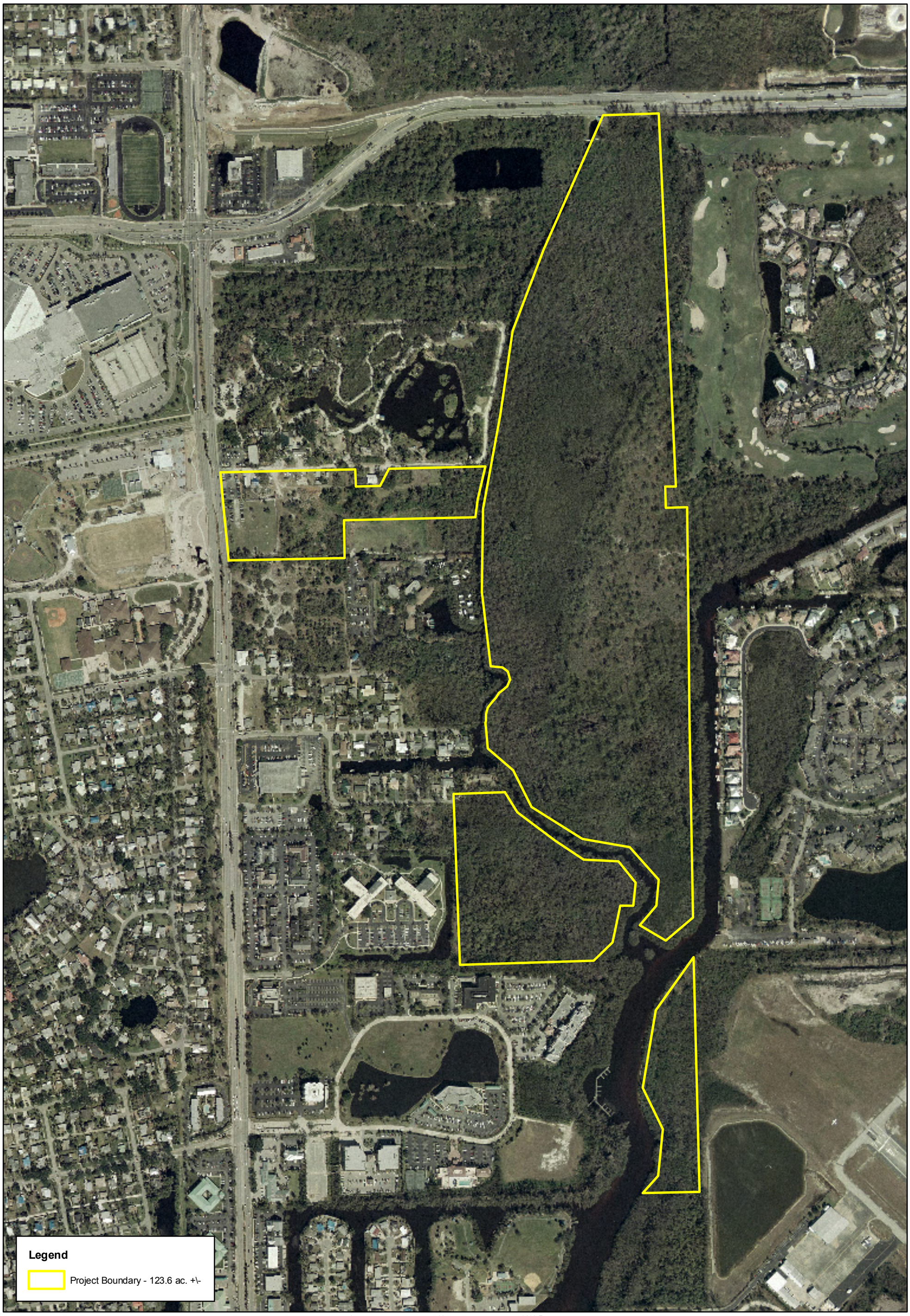
Time Zero Monitoring Report	Within 60 days of completion of 1st Semi-Annual Nuisance and Exotic Treatment and the Completion of Mitigation Area M-1
Yr-2 1st Semi-annual Nuisance and Exotic Treatment	May 2013
Yr-2 2nd Semi-annual Nuisance and Exotic Treatment	November 2013
Evaluate and Implement Supplemental Planting, as needed	February – March 2014
First Annual Monitoring Report	April 2014
Yr-3 Annual Nuisance and Exotic Treatment	May 2014
Second Annual Monitoring Report	April 2015
Yr-4 Annual Nuisance and Exotic Treatment	May 2015
Third Annual Monitoring Report	April 2016
Yr-5 Annual Nuisance and Exotic Treatment	May 2016
Fourth Annual Monitoring Report	April 2017
Start Yr-6 No Treatment/Intervention	May 2017
Fifth Annual Monitoring Report & Release	April 2018

CONSERVATION EASEMENT

The Mitigation Areas provided to the SFWMD and/or COE, totaling 61.61± acres, will be included in the 104± acres to be placed under a passive recreational conservation easement granted to the SFWMD (see Exhibit 3). The Conservation Easement follows the form of SFWMD Form 1191 to allow passive recreational uses in the conservation area and includes the COE and Florida Communities Trust as entities with third-party beneficiary rights. The entire site is proposed to be maintained in perpetuity by the Collier County Parks and Recreation Department and the Conservation Collier Program.

EXHIBITS

Exhibit 1 Project Aerial Photograph
Exhibit 2 Mitigation Area M1 Plans
Exhibit 3 Mitigation and Conservation Easement Areas Map
Exhibit 4 Monitoring Transects Maps



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Aerial Map

Gordon River Greenway Park
Collier County, FL

Image:2006

Sec 27, 34
Twp 49 S
Rng 25 E

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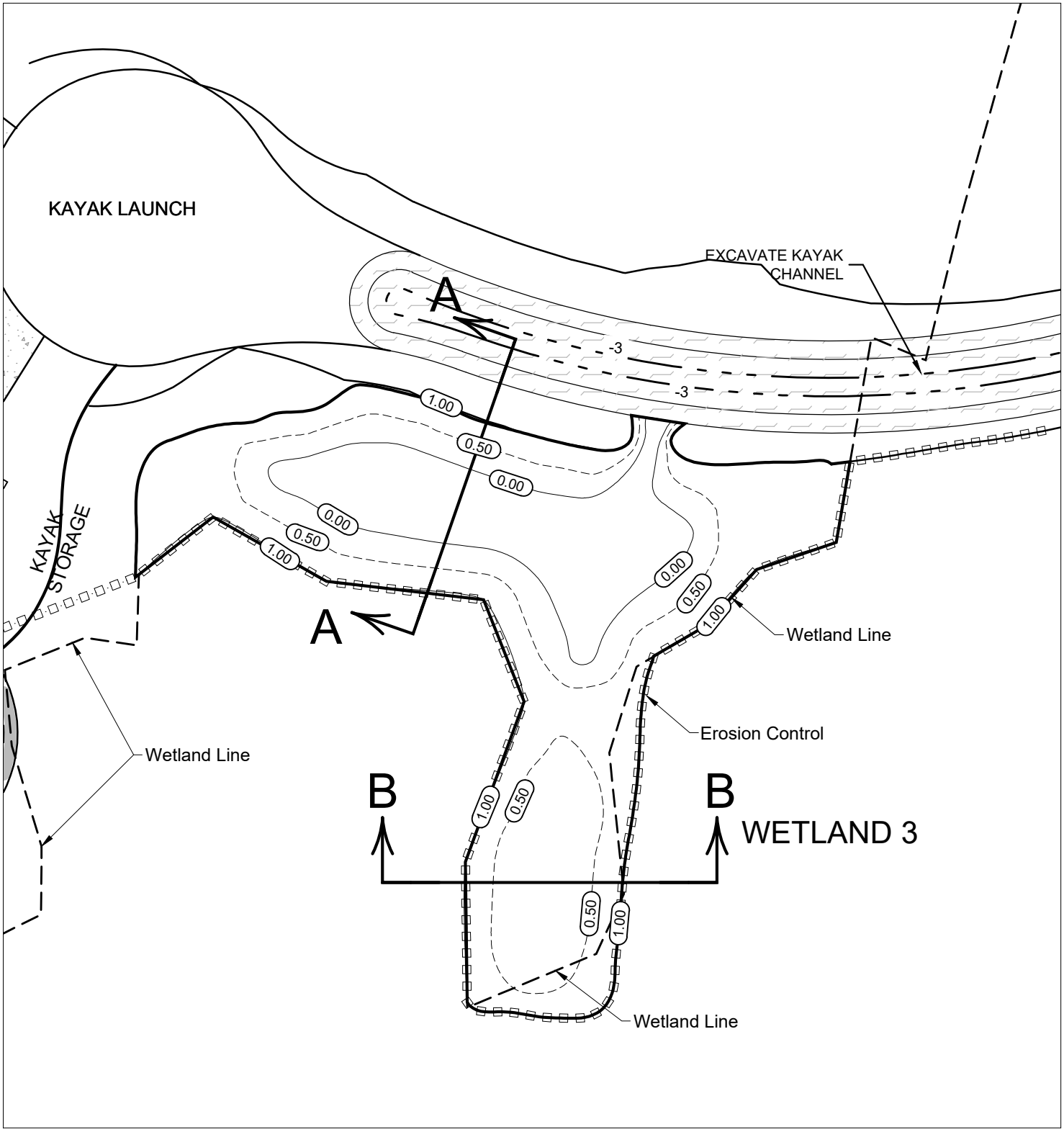
22 Sarasota Center Blvd.
Sarasota, FL 34240
ph. (941) 378-0660
fx (941) 378-0787
www.entrix.com

Coordinate System:
NAD 1983 UTM Zone 17N feet

Date: 02/08/2011 Rev. Date: xx/xx/xx PM: VAF GIS Analyst: JMB Map Document: 0437_177_aerial_B_1_20110208.mxd Project Number: 0437-177 PDF Document: 0437_177_aerial_B_1_20110208_jmb.pdf Plot Size: 11 x 17



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M1 Grading Plan
Gordon River Greenway Park
Collier County, FL

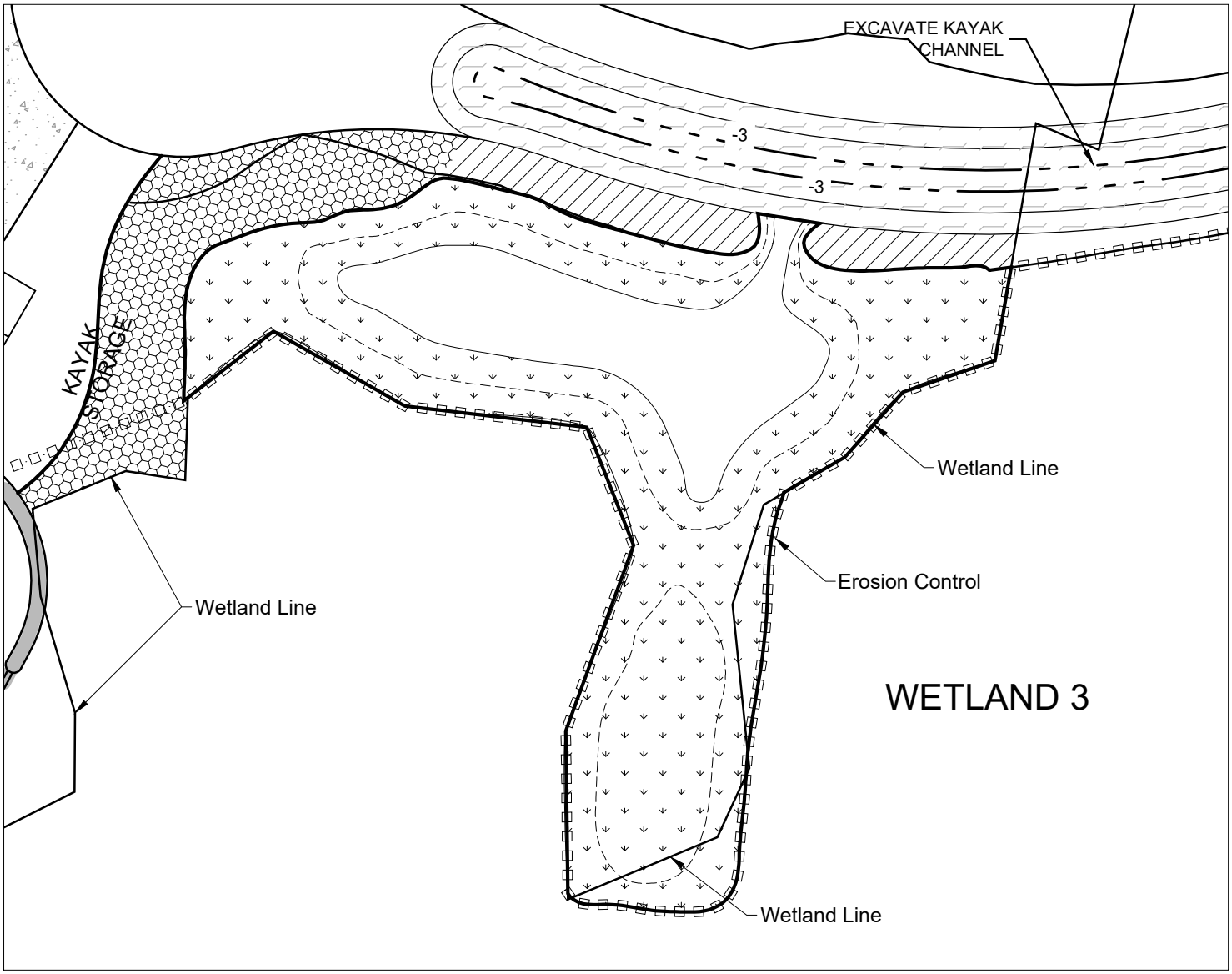
COE
Se□27,34
Twn 49 S
Rng 25 E

S□eet | 01

Cardno ENTRIX
3905 Cres□ent Park Drive
Riverview, FL 33578-3625
813-664-4500 □□□
813-0440 □□
www.□ardnoentri□□o□

Coordinate Syste□:
NAD 83 Florida State Planes Feet. West

PM: RKL CAD O□erator: JMB Creation Date: 7/19/2011 Rev. Date: 8/8/2011 Revised By: Ja□es□ File Lo□ation: □:\UnitedStates\Florida\Sarasota\0437\177\working\□ad\M1 Grading Plan.dwg



Planting Legend

	Common Name	Scientific Name	Area	Number	Size	Spacing
Zone 1	buttonwood	*Conocarpus erectus*	0.04	23	3-gallon	6' OC
	coco plum	*Chrysobalanus icaco*		23	3-gallon	6' OC
	smooth cordgrass	*Spartina bakeri*		90	1-quart	3' OC
	marsh cordgrass	*Spartina patens*		90	1-quart	3' OC
Zone 2	buttonwood	*Conocarpus erectus*	0.02	12	3-gallon	6' OC
	white mangrove	*Laguncularia racemosa*		12	3-gallon	6' OC
	marsh cordgrass	*Spartina patens*		70	1-quart	2' OC
	seashore paspalum	*Paspalulm vaginatum*		70	2-inch plug	2' OC
	seashore dropseed grass	*Sporobolus virginicus*		70	2-inch plug	2' OC
Zone 3	white mangrove	*Laguncularia racemosa*	0.14	30	1-gallon	10' OC
	red mangrove	*Rhizophora mangle*		30	1-gallon	10' OC
	leather fern	*Acrostichum danaiefolium*		380	1-gallon	4' OC

0 30□ 60□ □eet

T□is drawing and all data □ontained wit□in are su□□lied as is wit□ no warranty. Cardno ENTRIX, In□ expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this drawing. It is the sole responsibility of the user to determine if the data on this drawing meets the user's needs. This drawing was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where re□uired □y law.

M1 Planting Plan
Gordon River Greenway Park
Collier County, FL

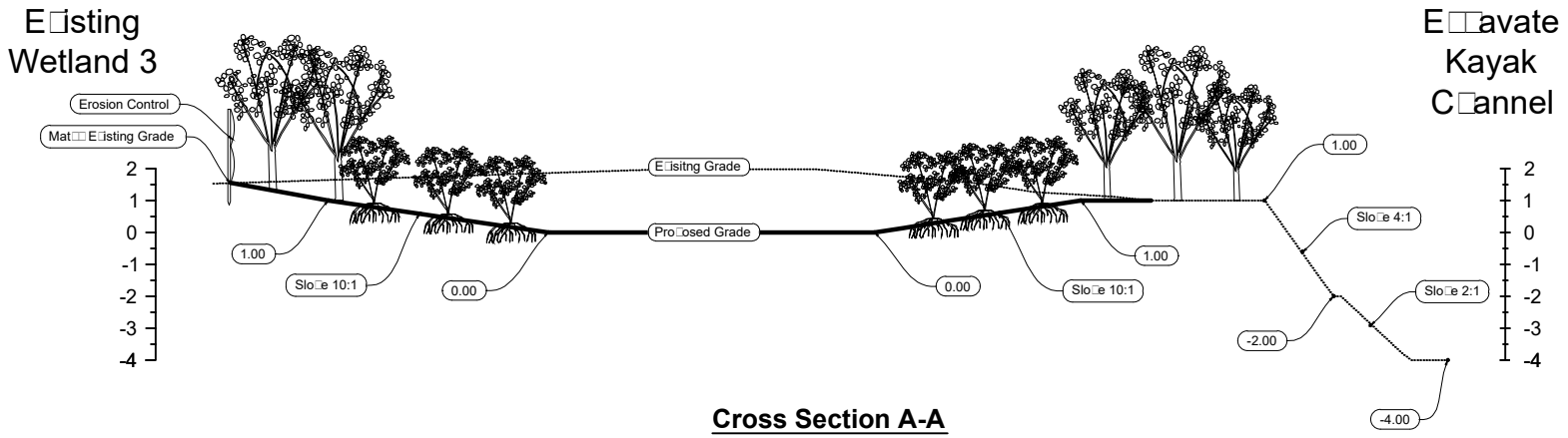
COE
Se□27,34
Twn 49 S
Rng 25 E

S□eet 02

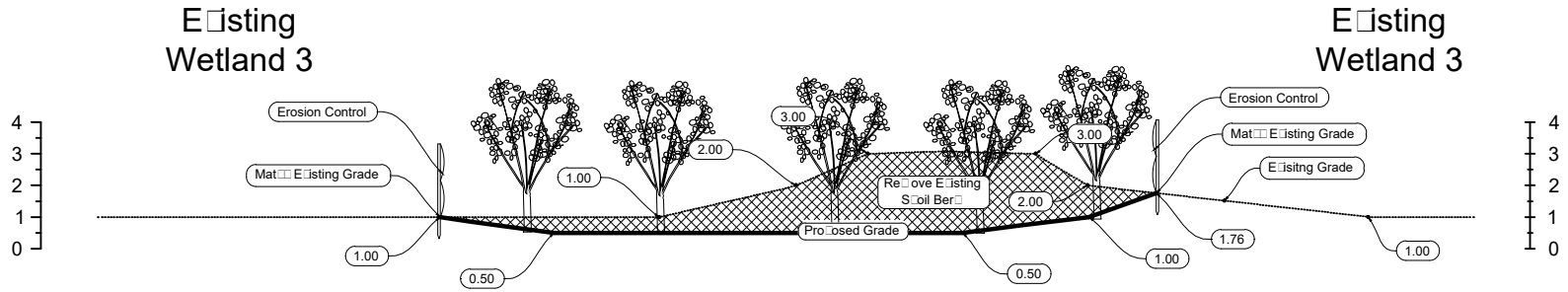
Cardno ENTRIX
3905 Cres□ent Park Drive
Riverview, FL 33578-3625
813-664-4500 □□□
813-0440 □□
www.□ardnoentri□□o□

Coordinate Syste□:
NAD 83 Florida State Planes Feet. West

PM: RKL CAD O□erator: JMB Creation Date: 7/19/2011 Rev. Date: 8/8/2011 Revised By: Ja□es□ File Lo□ation: □:\UnitedStates\Florida\Sarasota\0437\177\working\□ad\M1 Planting Plan.dwg



Cross Section A-A
Vert □6 Hor□□10



Cross Section B-B
Vert □6 Hor□□10

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M1 Cross Se□tion
Gordon River Greenway Park
Collier County, FL

COE
Se□27,34
Twn 49 S
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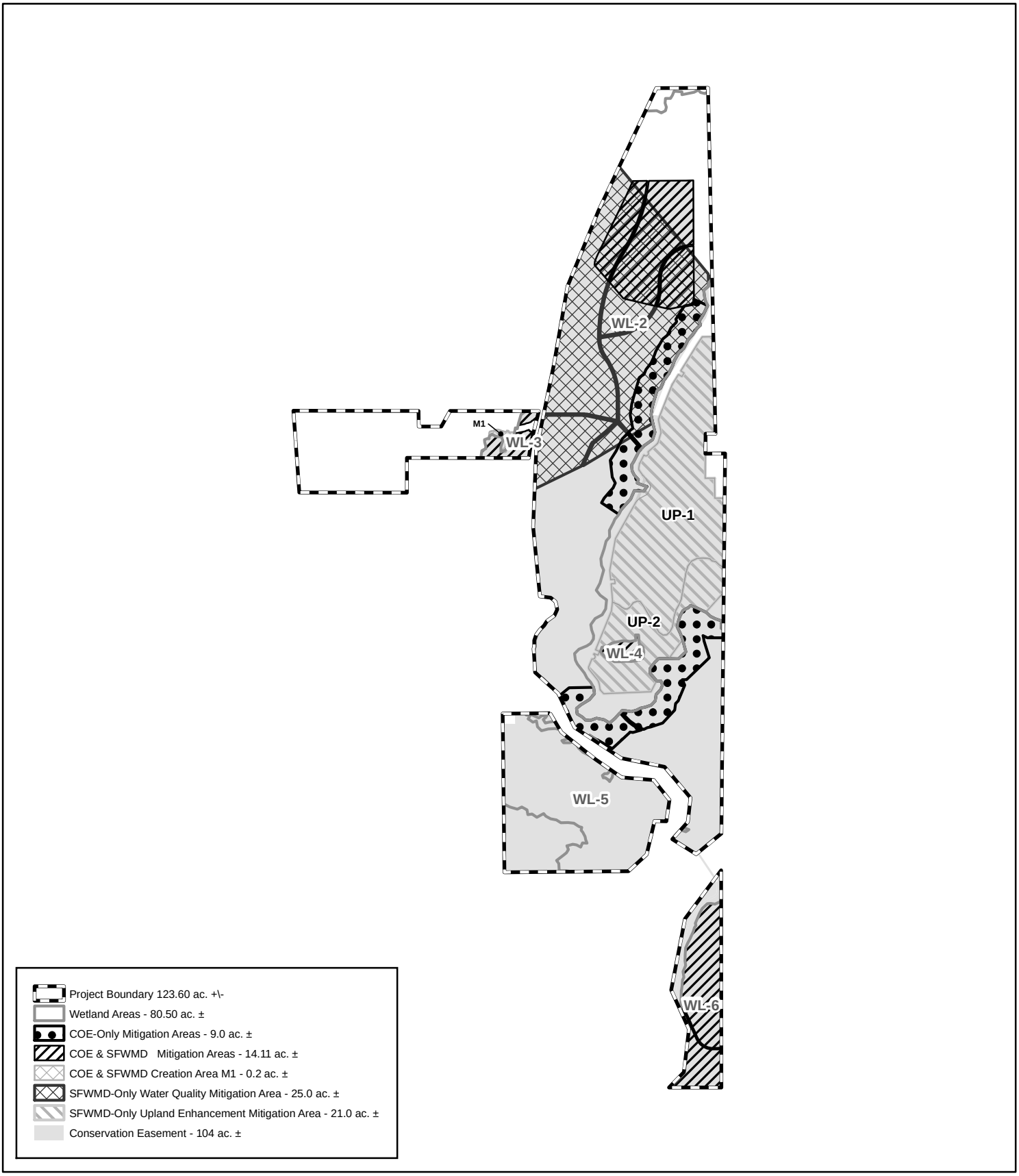

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Mitigation and Conservation Easement Areas Map

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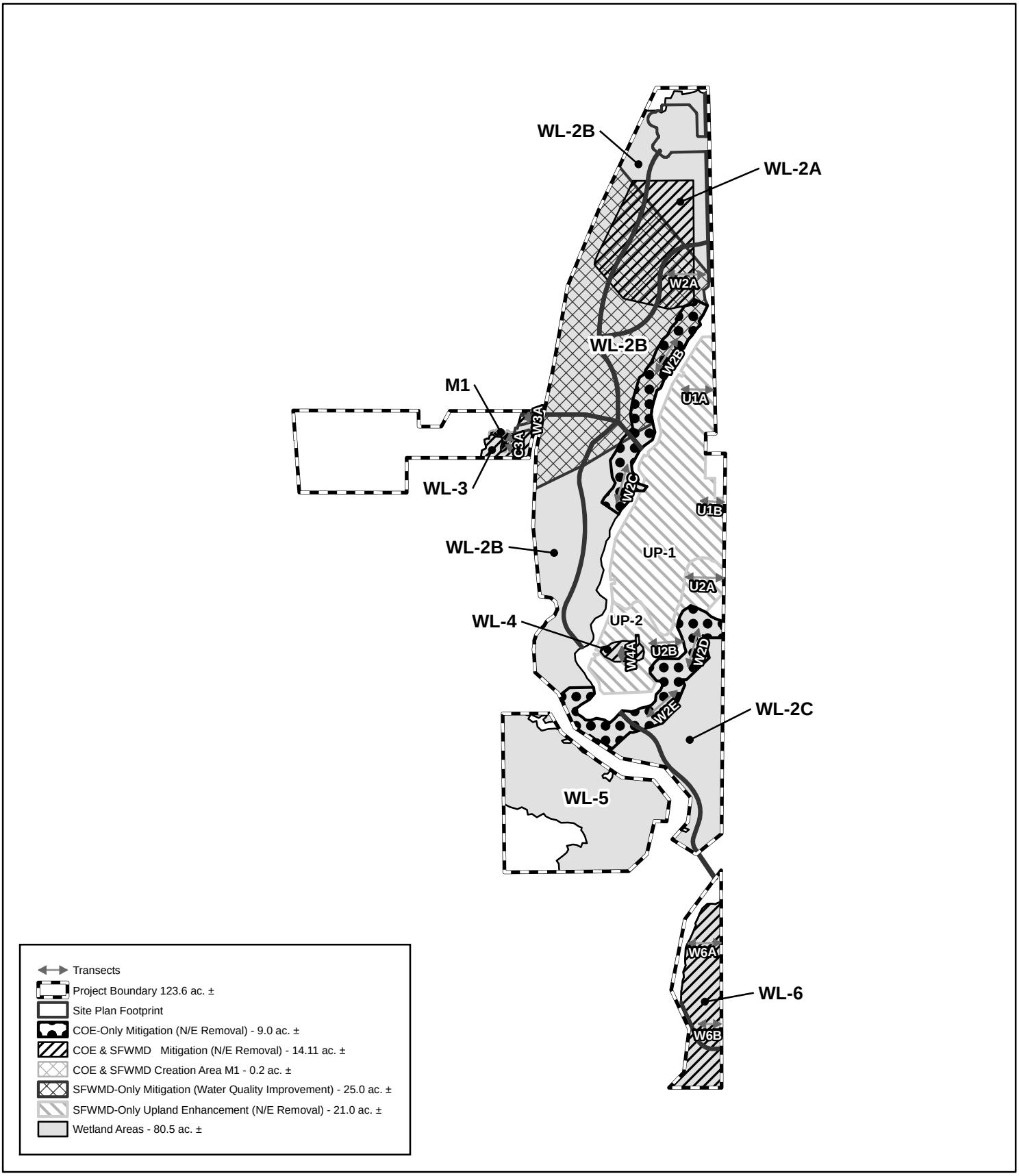
NAD 1983 UTM Zone 17N feet

Date: 09/30/2011 Rev. Date:05/09/12 mab PM: RKL GIS Analyst: GdA Map Document: Mitigation_and_conservation_easement_A_20120412.mxd Project Number: 0437-177 PDF Document: Mitigation_and_conservation_easement_A_20120412.pdf Plot Size: 8.5 x 11



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Monitoring Transects Map

Gordon River Greenway Park
Collier County, Florida

Sec 27,34
Twp 49 S
Rng 25 E

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Date: 10/10/11 Rev. Date:04/10/12 PM: VAF GIS Analyst: MAB Map Document: 0437_177_transects_B&W_A_20120410.mxd Project Number: 0437-177 PDF Document: 0437_177_transects_B&W_A_20120410.pdf Plot Size: 8.5 x 11

Appendix D

Page 1

Ent D (FMSF only)__/__/__ Survey # (FMSF only)_____

11962

Survey Log Sheet

Florida Master Site File
Version 2.0 9/97

Consult *Guide to the Survey Log Sheet* for detailed instructions.

Identification and Bibliographic Information

Survey Project (Name and project phase): Fleischmann Parcel Phase One Archaeological Assessment

Report Title (exactly as on title page) A Phase One Archaeological Assessment of the Fleischmann Parcel, Collier County, Florida

Report Author(s) (as on title page— individual or corporate; last names first) Beriault, John G.

Publication Date (year) _2005_____ Total Number of Pages in Report (Count text, figures, tables, not site forms) _43_____

Publication Information (If relevant, series and no. in series, publisher, and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*: see *Guide to the Survey Log Sheet.*): Archaeological and Historical Survey Technical Report # 626

Supervisor(s) of Fieldwork (whether or not the same as author[s]; last name first) Carr, Robert S.

Affiliation of Fieldworkers (organization, city) Archaeological and Historical Conservancy(AHC), Davie, FL

Key Words/Phrases (Don't use the county, or common words like *archaeology*, *structure*, *survey*, *architecture*. Put the most important first. Limit each word or phrase to 25 characters.):Collier, Goodlette, Frank, Gordon, Hole In the Wall Swamp

Survey Sponsors (corporation, government unit, or person who is directly paying for fieldwork)

Name American Consulting Engineers

Address/Phone

Recorder of *Log Sheet* __John G. Beriault_____ Date *Log Sheet* Completed __7_/_13__/_05__

Is this survey or project a continuation of a previous project? X No θ Yes: Previous survey #(s) [FMSF only] _____

Mapping

Counties (List each one in which field survey was done - do not abbreviate; use supplement sheet if necessary)

Collier County

USGS 1:24,000 Map(s) : Map Name/Date of Latest Revision (use supplement sheet if necessary): Naples North, 1991 rev.

Description of Survey Area

Dates for Fieldwork: Start _7_/_5_/05___ End _7_/_11_/_05__ Total Area Surveyed (fill in one)

_____ hectares ___4____ acres approx.

Number of Distinct Tracts or Areas Surveyed ___one_____

If Corridor (fill in one for each): Width _____ meters _____ feet Length _____ kilometers _____miles

Page 2 **Survey Log Sheet of the Florida Master Site File**

Research and Field Methods

Types of Survey (check all that apply): x archaeological θ architectural θ historical/archival θ underwater θ other:

Preliminary Methods (4Check as many as apply to the project as a whole. If needed write others at bottom).

θ Florida Archives (Gray Building) θ library research- *local public* θ local property or tax records θ windshield
θ Florida Photo Archives (Gray Building) θ library-special collection - *nonlocal* _____ θ ne
x FMSF site property search θ Public Lands Survey (maps at DEP) θ literature search
θ FMSF survey search x local informant(s) θ Sanborn Insurance maps
x other (describe)grayline aerial photographs and USGS Map _____

Archaeological Methods (Describe the proportion of properties at which method was used by **writing in** the corresponding letter. Blanks are interpreted as "None.")
F(-ew: 0-20%), **S**(-ome: 20-50%); **M**(-ost: 50-90%); or **A**(-ll, Nearly all: 90-100%). If needed write others at bottom.

θ Check here if **NO** archaeological methods were used.

_S__ surface collection, controlled
___ surface collection, uncontrolled
__A_ shovel test-1/4"screen
___ shovel test-1/8" screen
___ shovel test 1/16"screen
___ shovel test-unscreened
___ other (describe): _____
___ posthole tests
___ auger (size:____)
___ coring
___ test excavation (at least 1x2 M)
___ other screen shovel test (size: ____)_____ ___
___ water screen (finest size: ____)_____ ___
___ magnetometer
___ side scan sonar
___ unknown

Historical/Architectural Methods (Describe the proportion of properties at which method was used by **writing in** the corresponding letter. Blanks are interpreted as "None.")
F(-ew: 0-20%), **S**(-ome: 20-50%); **M**(-ost: 50-90%); or **A**(-ll, Nearly all: 90-100%). If needed write others at bottom.

X Check here if **NO** historical/architectural methods were used.

___ building permits ___ demolition permits ___ neighbor interview ___ subdivision maps
___ commercial permits ___ exposed ground inspected ___ occupant interview ___ tax records
___ interior documentation ___ local property records ___ occupation permits ___ unknown
___ other (describe): _____

Scope/Intensity/Procedures Review of USGS maps and aerial photographs followed by pedestrian survey of entire area of parcel, the selection of targets, and the excavation of thirty five 45 cm. shovel tests both systematically and judgmentally across the parcel.

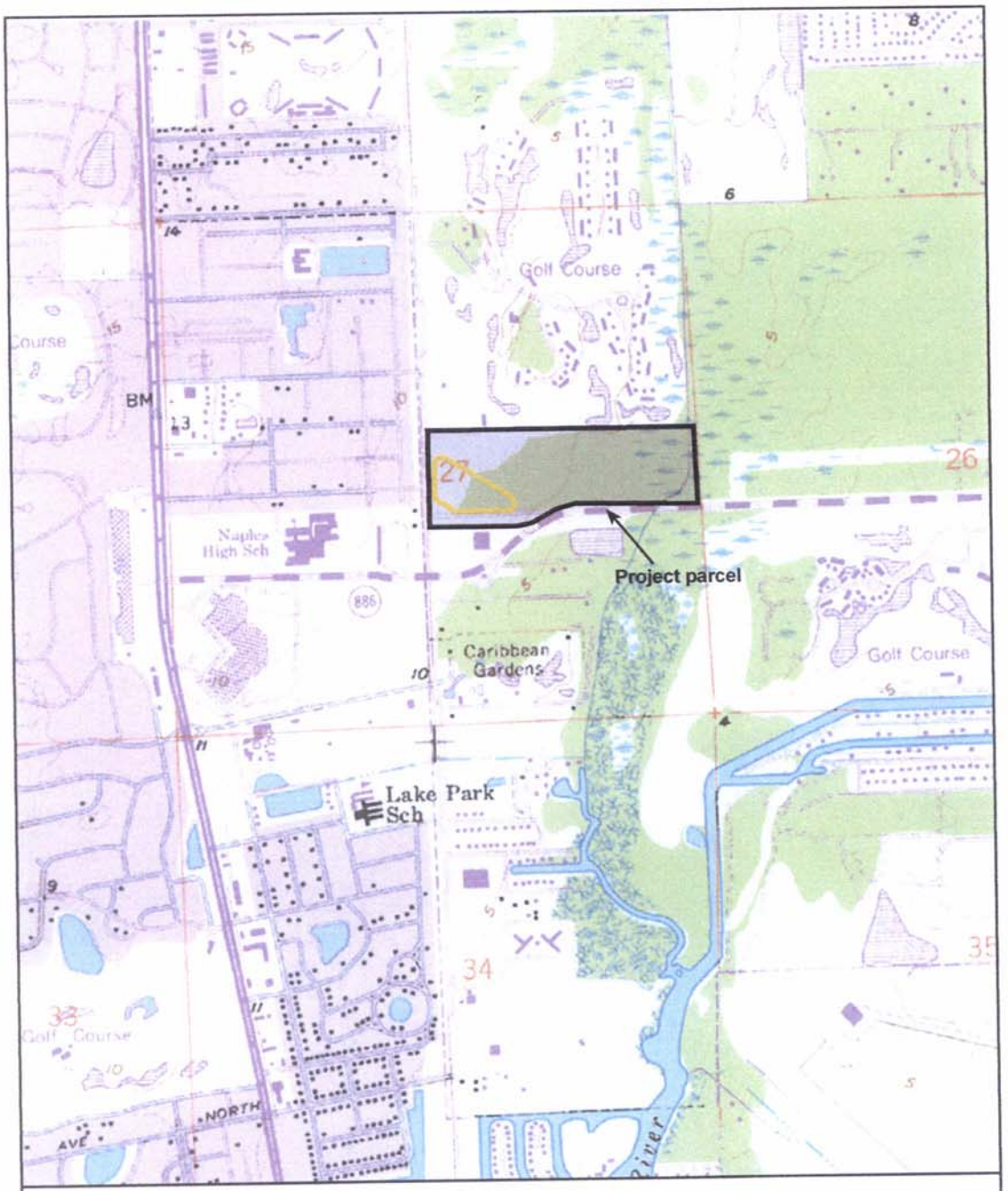
Survey Results (cultural resources recorded)

Site Significance Evaluated? XYes θNo If *Yes*, circle NR-eligible/significant site numbers below.
Site Counts: Previously Recorded Sites ___None _____ Newly Recorded Sites One _____
Previously Recorded Site #'s (List site #'s without "8." Attach supplementary pages if necessary)
Newly Recorded Site #'s (Are you sure all are originals and not updates? Identify methods used to check for updates, ie, researched the FMSF records. List site #'s without "8." Attach supplementary pages if necessary.) CR925 ___
Site Form Used: X SmartForm θ FMSF Paper Form θ Approved Custom Form: Attach copies of written approval from FMSF Supervisor.

DO NOT USE ♣♣♣♣♣♣SITE FILE USE ONLY♣♣♣♣♣♣DO NOT USE

BAR Related **BHP**
Related
θ 872 θ 1A32 θ State Historic Preservation Grant
θ CARL θ UW ✗ Compliance Review: CRAT
#_____ ± 2005 - 7892

ATTACH PLOT OF SURVEY AREA ON PHOTOCOPIES OF USGS 1:24,000 MAP(S)



Map of the Fleischmann parcel

FLORIDA DEPARTMENT OF STATE
Glenda E. Hood
Secretary of State
DIVISION OF HISTORICAL RESOURCES

Mr. Robert S. Carr
Archaeological and Historical Conservancy, Inc.
4800 S.W. 64th Avenue, Suite 107
Davie, FL 33314

August 3, 2005

Re: DHR Project File No. 2005-7892 / Received by DHR: August 1, 2005
A Phase One Archaeological Assessment of the Fleischmann Parcel, Collier County, Florida
A Phase One Archaeological Assessment of the Fleischmann Parcel Retention Pond Area, Collier County, Florida

Dear Mr. Carr:

We note that in July 2005, Archaeological and Historical Conservancy, Inc. (AHC) conducted the above referenced survey for American Engineering Company in anticipation of a request by the Florida Division of Historical Resources for a cultural resource assessment survey. Our office proceeded to review this report with the expectation that American Engineering Company will be engaging in permitting processes that will require this office to comment on possible adverse impacts to cultural resources listed or eligible for listing in the *National Register of Historic Places (NRHP)*, or otherwise of historical, architectural, or archaeological significance. We recommend at the time such actions are taken, a copy of this letter be forwarded to the permitting agency(ies) with the application. This may eliminate the permitting agency(ies) from having to submit an application to the Division of Historical Resources for review or, if applications are forwarded to the Division with this letter, it would facilitate our review.

The archaeological and historical cultural resources assessment survey of the Fleischmann Parcel and the Fleischmann Parcel retention pond area located one unrecorded archaeological site within the project area. The Luckey Lane site (8CR925) is a shell/ceramic scatter that may represent a prehistoric habitation. It is the opinion of AHC that 8CR925 is a locally significant site though it does not appear eligible for listing in the *NRHP*. AHC recommends avoidance/preservation of this site, or, if this is not possible, AHC recommends that limited Phase II investigation of 8CR925 be carried out in order to further determine the significance of the site.

Based on the information provided, our office concurs with these determinations and finds the submitted report complete and sufficient in accordance with Chapter 1A-46, *Florida Administrative Code*.

If you have any questions concerning our comments, please contact Beth Chambless, Historic Sites Specialist, by phone at (850) 245-6333, or by electronic mail at ejchambless@dos.state.fl.us. Your continued interest in protecting Florida's historic properties is appreciated.

Sincerely,

Barbara C. Mattick
Chief, BHP

for Frederick Gaske, Director, and
State Historic Preservation Officer

500 S. Bronough Street • Tallahassee, FL 32399-0250 • http://www.flheritage.com

☐ Director's Office (850) 245-6300 • FAX: 245-6436
☐ Archaeological Research (850) 245-6444 • FAX: 245-6436
■ Historic Preservation (850) 245-6333 • FAX: 245-6437
☐ Historical Museums (850) 245-6400 • FAX: 245-6433
☐ Southeast Regional Office (954) 467-4990 • FAX: 467-4991
☐ Northeast Regional Office (904) 825-5045 • FAX: 825-5044
☐ Central Florida Regional Office (813) 272-3843 • FAX: 272-2340

11962

A Phase One Archaeological Assessment of the Fleischmann Parcel, Collier County, Florida

by

John G. Beriault, B.A.

conducted under the direction of
Robert S. Carr, M.S.
Archaeological and Historical Conservancy
4800 SW 64th Avenue Suite 107
Davie, FL 33314
(954)792-9776
archlgcl@bellsouth.net

for
American Consulting Engineers

AHC Technical Report #626
July 2005
2005.101

2005 - 7892

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Consultant Summary

In July 2005, the Archaeological and Historical Conservancy Inc. (AHC) conducted a phase I archaeological assessment for the American Consulting Engineers of the ±50-acre Fleischmann parcel located east of the City of Naples in west-central Collier County. The parcel was surveyed to locate sites of archaeological and/or historical significance.

This assessment was conducted to fulfill historic resource requirements in response to Florida's Chapter 267. This assessment was conducted in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties. The work and the report conform to the specifications set forth in Chapter IA-46, Florida Administrative Code.

The parcel encompasses part of Section 27 in Township 49S, Range 25E (Figure 1). The parcel is presently undeveloped and contains second-growth dense successional vegetation, both native and exotic. The parcel has been impacted by farming activity on the parcel 50+ years ago. The extreme eastern end of the parcel contains the headwaters/slough for the Gordon River, which drains into Naples Bay to the south. No structures are located on the project parcel, although there was a residence built c. 1958 in the western portion of the parcel/retention pond area which has since been demolished.

The entire parcel was investigated based on aerial photograph reconnaissance and a subsequent pedestrian survey. It was determined that the parcel area, particularly the western upland areas had a moderate probability of containing archaeological sites. Thirty five shovel tests (45 cm^2) were dug across the area and one archaeological site, the Luckey Lane Site, 8CR925, was discovered in the southeastern portion of the parcel immediately north of Golden Gate Parkway.

It is the consultant's opinion that archaeological site CR925, a formative period shell scatter, is of local significance and based on available data, is not regarded as potentially eligible for listing on the National Register of Historic Places. If the area of the site is to be impacted, Phase Two testing is recommended to determine the site's full extent and significance.

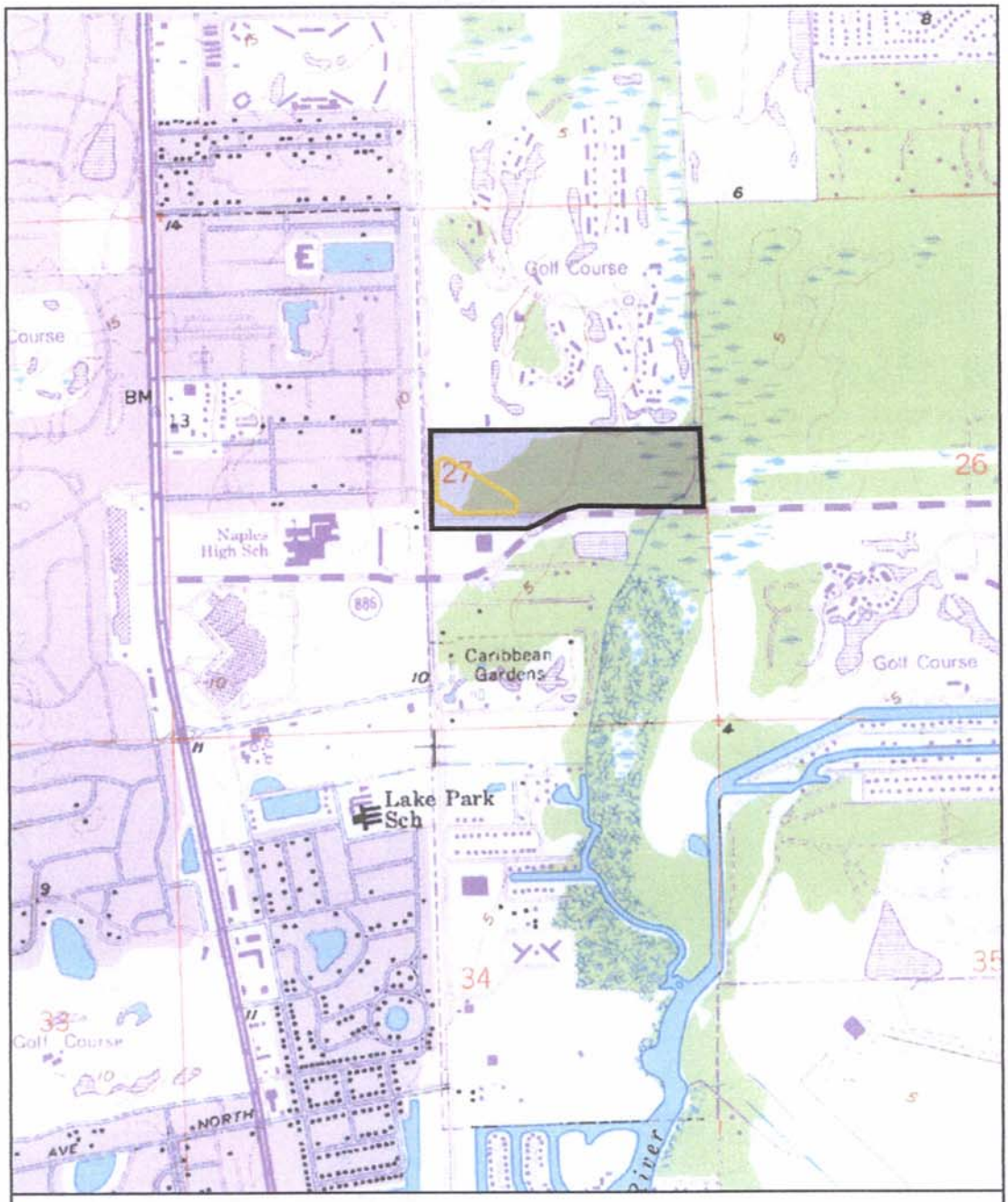

Figure 1. Map of the Fleischmann parcel area

= RETENTION POND AREA

USGS MAP: NAPLES NORTH, REV. 1991

Project Setting

The subject parcel is located in part of Section 27, Township 49S, Range 25E located east of the City of Naples in west-central Collier County, Florida (Figure 1). The approximately ±50-acre parcel is a polygon with the straight borders oriented to the cardinal points. Within the western part of the parcel is a 4-acre retention pond area which was investigated concurrently by AHC and a separate report issued (see Beriault, 2005). The relevant USGS map is Naples North, Fla.

The Fleischmann parcel is situated on abandoned and overgrown agricultural land. The parcel is located east of Goodlette-Frank Road and north of Golden Gate Parkway. Prior uses of the property included a citrus grove and vegetable farming. A small house constructed circa 1958 occupied a portion of the area under consideration for the retention pond. This frame structure with asbestos shingle siding was demolished and removed in the late 1980s. At present a solitary royal palm and several other ornamental exotics mark the house site. The area contains a mix of native and exotic vegetation that has recolonized the area over the last fifty years. Ditching and furrows from prior agricultural practices are still discernible throughout the parcel.

The immediate region is moderately elevated country (12-15 feet, NGVD) vegetated in slash pine/saw palmetto flatwoods dropping gradually to the east toward the headwaters/slough for the Gordon River flowing south into Naples Bay. The area contained a dense almost impenetrable mix of fresh and brackish water swamp with red mangroves bordering the creek and cypress swamp/maple swamp away from the creek and to the north. This swamp area was called "Hole-In-The-Wall Swamp" by the local inhabitants, as historically there was a cut trail running east-west across the slough slightly to the north of the subject parcel allowing early residents to cross this barrier for hunting and to access the interior woodlands north and east of Naples.

Slash pine flatwoods communities are usually situated on high ground west of Naples Bay/Gordon River. Historically, these communities, which contain a dense, often head-high understory of saw palmetto, were subject to and maintained by periodic forest fires. Fires started either naturally by lightning strikes or by prehistoric Indians or by early settlers to aid hunting or cattle grazing. Among the plants typically found in the slash pine/saw palmetto flatland/prairie environments are: slash pine, saw palmetto, gallberry, shiny lyonia, rusty lyonia, staggerbush, dahoon holly, ground oak, wire grass, broom sedges, shiny blueberry, xyris, and a variety of annual and perennial herbs and wildflowers blooming seasonally.

Flanking these high ground areas and running as north-south linear transverse depressions are deep sloughs and bald cypress swamps and marsh ponds. These areas even with present-day drainage activities contain standing water much of the year and support a rich diversity of plant and animal life. Some of the plant species present include cordgrasses (*Spartina* spp.) and succulent marsh plants such as pickerelweed (*Pontederia lanceolata*) and arrowhead (*Sagittaria* spp.) and ferns such as swamp fern (*Blechnum serrulatum*), *Thelypteris* and *Osmunda* ferns. The deep open marshes of the area are likely relict burnt cypress solution holes and pond features as evinced by the abundant

dead snags and logs of that species. At present, many of these features contain pop ash (*Fraxinus caroliniana*), pond apple (*Annona glabra*), coastal plain willow (*Salix caroliniana*), and buttonbush. All of these environmental zones were heavily exploited by prehistoric Indians, early white settlers, and more recent recreational hunters.

A third community, now largely destroyed in the Naples area was xeric sand pine/live oak/rosemary scrub on a series of linear Pleistocene ridge features paralleling the coast and extending inland as much as two miles for the coast. A range of these ridge features existed immediately north of the subject parcel in the area of Wilderness Country Club.

The soil types for the area are fine white to gray sand mantles covering brown hardpan sands. Saint Lucie fine/Pomello fine and Immokalee fine types predominate. At depths exceeding 20 feet there is frequently present a zone of decayed peat. Limestone caprock is generally not found surfacially in the immediate area of the subject parcel.

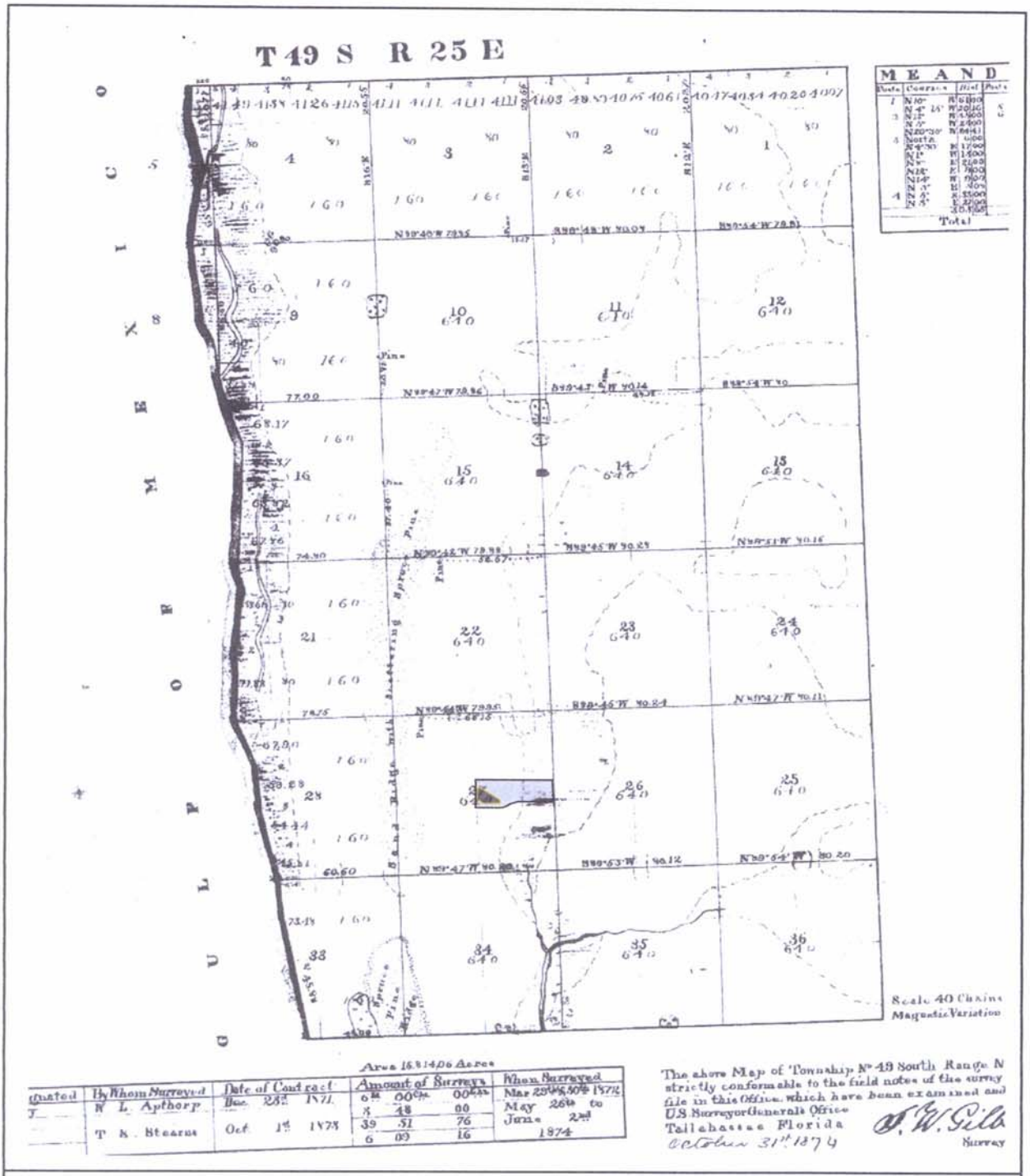

Figure 2. Portion of the 1874 plat map for Township 49S, Range 25E with modern Fleischmann parcel boundaries superimposed

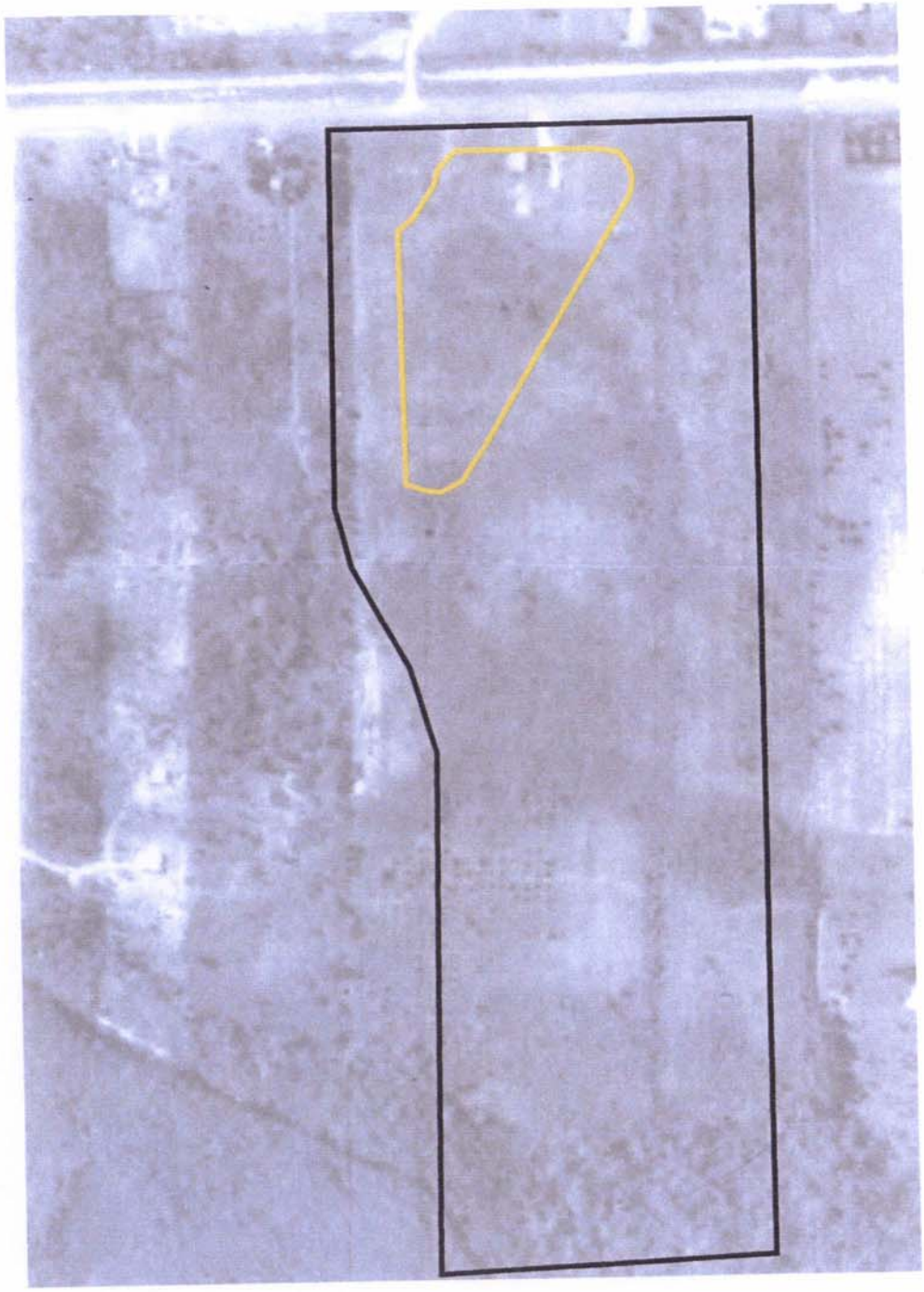

Figure 3. 1962 aerial photograph of the Fleischmann parcel area with the retention pond sub-area outlined in yellow. Note remnants of abandoned citrus grove in easterly portion of parcel. The house in the area of the pond was constructed c. 1958.

N

0 165 330 660 Feet approx.



Figure 4. Aerial photograph of the Fleischman parcel.

AERIAL PROVIDED BY AMERICAN CONSULTING ENGINEERS, LLC



Figure 5. View northwest at Scott Faulkner examining sifted spoil from Shovel Test #2 in the western portion of the parcel.



Figure 6. View north at typical area of second-growth emerging native and exotic vegetation.

Previous Research

Southwest Florida has been a focus of archaeological investigations since the 1880's, although much of the early work was directed toward recovery of museum quality artifacts rather than understanding cultural processes. Griffin (1988:48-50) discusses some of the very early references to archaeological sites in south Florida. He notes that these early reports were mostly casual observations, and few appear to refer to southwest Florida, but rather the southeast and Key West areas.

Southwest Florida archaeological sites have been reported since at least the time of Kenworthy's informal report on shell mounds and ancient canals (Kenworthy 1883).

At about the same time as Kenworthy's investigations, Simons (1884) gave a narrative account of some of the very large coastal shell middens, and Douglass (1885) provided further information about prehistoric canals (although he did not accept that they were prehistoric); one canal near Gordon's Pass is probably the Naples Canal (8CR59), and one further north the Pineland Canal. Griffin (1988:50-51) indicates that Douglass' diaries record excavations on Horrs Island, apparently a post-contact era site (8CR41), as Douglass mentioned European artifacts. Douglass visited Lostman's River and other areas in the Ten Thousand Island area, and a visit to Horrs Island was briefly narrated in Douglass (1890).

In 1895 Durnford reported cordage and other artifacts recovered from a mangrove muck pond on Marco Island (site 8CR49). The material was shown to Cushing, who mounted a major project to recover more material from the site. Cushing (1897) reported wood and other perishable artifacts recovered from the muck pond on Marco Island, adjacent to a large shell works and midden village site. This report generated a great deal of subsequent interest after publication of illustrations of the spectacular finds. Wells M. Sawyer, a young artist accompanying the expedition produced an excellent and presumably accurate contour map for the entire Key Marco Shell Midden. This map is valuable to present-day efforts to understand many of the now obliterated features and interpreting (reconstructing) the "architecture" of the shell midden during current excavations at that site. Widmer (1983) notes that Cushing also focused attention on the nonagricultural chiefdom level of social organization supported by the rich estuary and marine resources, although his anthropological observations have remained overshadowed by the wealth of artifacts.

C.B. Moore investigated a number of sites along the Collier/Lee County coast, apparently attempting to find material comparable to Cushing's finds (Moore 1900, 1905, 1907). Although Moore provided information about site locations and general contents, most of his work was extremely crude and uncontrolled, even by contemporary archaeological standards, and certainly by modern.

The first attempt to systematically survey and investigate archaeological sites was initiated by Ales Hrdlicka, who in 1918 visited a number of sites along the coast and tidal mangrove estuaries, especially in the Ten Thousand Island region (Hrdlicka 1922).

Hrdlicka noted that southwest Florida was a distinct region within south Florida and made an attempt to type sites by function.

Matthew Stirling excavated a burial mound on Horrs Island (1931,1933). The site was named the Blue Hill Mound but is not recorded under that name in the FMSF (either as a primary or secondary name), so it is unclear exactly which site he excavated though it was probably 8CR41 (McMichaels 1982). The reports by Stirling are preliminary, and apparently neither a final report nor a skeletal analysis has been published. However, this represents one of the first controlled excavations in Collier/Lee Counties (although he attempted stratigraphic control Cushing had little success in his wet site excavation) John M. Goggin (1936) defined a south Florida cultural area (Glades Area), and described south Florida ceramics (Glades ware), establishing a basis for later archaeological work.

Goggin (1939) published an analysis of the ceramic sequence in south Florida. In later reports (1947, 1949a, 1949b) he formulated a basic framework of cultural areas and chronologies that is still current (though modified with additional data, see further discussion below). Goggin summarized much of this information in an unpublished manuscript (1949b, although modified later); the most thorough discussion of this manuscript is available in Griffin (1988).

In 1935, John M. Goggin, pioneer south Florida archaeologist made a visit to the Gordon Pass Shell Mound on the north side of Gordon's Pass. This archaeological feature, now destroyed, became the type-site for an incised pottery decoration/motif called "Gordon Pass Incised", now recognized as a prominent Glades II time marker. Goggin's work at the Gordon Pass Shell Midden along with preliminary conclusions as to a Glades area chronology was published in *the New Mexico Anthropologist* in 1939 (Goggin 1939).

In passing, one unfortunate aspect of Goggin's work was a dependence on informant information for location of sites (especially interior sites) and he had a real concern that existing sites would be looted. This concern resulted in either deliberately or incidentally vague locational data for many sites. Some of these sites have never been satisfactorily relocated, although a few have undoubtedly been unknowingly recorded by later investigators. Goggin's 1949 manuscript (Goggin 1949b), which was apparently a rough draft for the Yale Publications in Anthropology series, enumerates several sites occurring in and around Bonita Springs. Due to the above difficulties in determining *precise* location, it cannot be said with absolute certainty that some due not occur near the subject tracts.

For several decades, much of the subsequent archaeological investigations in the region took place in Lee and Charlotte Counties, especially in the Cape Haze, Charlotte Harbor and Pine Island areas. It is rumored that John M. Goggin had a "gentleman's agreement" with many of the other leading practicing Florida archaeologists of the time that the South Florida area was his exclusive province to investigate. If this rumor is correct, it might explain the neglect shown the southwest Florida area from the end of World War II to Goggin's death in 1964.

In 1956 Sears reported on a large village and mound complex at the mouth of Turner River on Chokoloskee Bay south of Marco Island, and in 1967 on the results of a survey of the Cape Coral area. Laxson (1966) reported on excavations at Turner River Jungle Garden site, upriver from the Turner River site, although these have been confused in recent accounts.

Van Beck and Van Beck (1965) excavated three small test pits on Marco Island (at the Marco midden, 8CR48) associated with the Cushing site (8CR49). Their description for the placement of the three test pits excavated would place them less than 900 feet east of the subject parcel. The subsequent article concerning the Van Becks' efforts in the *Florida Anthropologist*, March, 1965 was some of the first reported scientific archaeological work to come from the southwest Florida area in nearly twenty years.

In 1967, 1968, 1969 Marco Island was extensively surveyed and a few sites tested by excavation by Cockrell, Morrell and others (Morrell 1969). No complete site report was ever published although an unpublished and incomplete manuscript is available. Some of these sites were discussed in Cockrell's masters thesis (1970). Widmer performed a survey of Big Key, John Stevens Creek, Barfield Bay, Blue Hill Bay, and Collier Bay (all close to Marco Island) (Widmer 1974). Widmer eventually utilized his southwest coast experience to write a doctoral dissertation on the Calusa that not only remains the definitive work on that group, but also explores the relationship between subsistence adaptation and cultural evolution (Widmer 1983).

In Lee County Arlene Fradkin and other investigators from the University of Florida began an ongoing involvement with the Pine Island Sound/Sanibel Island area with her investigations at the Wightman site on northern Sanibel Island (Fradkin, 1976).

McMichaels (1982) produced a masters thesis reviewing sites on Horrs Island. In 1983 Marquardt began a series of investigations at Josslyn Key, Useppa Island, Pineland, Buck Key, Galt Island in Lee County (Marquardt, 1984, 1987, 1988, 1992) and Big Mound Key in Charlotte County. Marquardt and Russo have investigated Horrs Island in Collier County. A number of the large shell midden village sites appear to be late Archaic, and they expect to document a more elaborate social organization and larger sedentary or semi-sedentary population sizes than previously known for that period (Russo 1990, and pers. comm.).

Most of these studies focused on the coastal sites, as have subsequent summaries and discussions. Recent work on the interior have made significant advances in documenting the extent and intensity of inland resources, especially in the Big Cypress and Everglades parks (Ehrenhard, Carr, and Taylor 1978, 1979, Ehrenhard and Taylor 1980, Ehrenhard, Taylor and Komara 1980, Taylor and Komara 1983, Taylor 1984, 1985). Synthesis of this data is available only for the Everglades Park (Griffin 1988) and this is definitely the most important single publication on south Florida archaeology to date. Athens (1983) summarized some of the results of the Big Cypress survey, but more analysis of this data resource is needed.

Beriault et al. (1981) reported on salvage excavations at Bay West Nursery (8CR200), describing a well known but rare and little documented Early and Middle Archaic use of ponds for cemeteries.

In 1995 Drs. Randolph Widmer and Rebecca Story began an ongoing investigation at the Key Marco Midden. In this first season they excavated with the help of graduate students and volunteers. The results of their work have appeared in the *Florida Anthropologist* (Widmer, 1996).

In the last two decades the pressure of development as well as a recognized need for preservation or mitigation of prehistoric sites has led to a number of reports by commercial cultural resource management consultants. While most of these reports are limited in scope due to restriction to a small tract of land, many have produced useful summaries of regional archaeological, as well as insightful analysis of the relationship between site types and location and ecotypes. (Almy and Deming 1982, 1986a, 1986b, 1986c, 1987, Austin 1987, Carr and Allerton 1988a, 1988b, Deming and Almy 1987, 1988, Fay and Carr 1990, Fuhrmeister et al. 1990, Martinez 1977, Miller and Fryman 1978, Swift and Carr 1989).

Arthur W. Lee, John Beriault and others in the Southwest Florida Archaeological Society (SWFAS) have recorded and investigated a large number of archaeological sites in Collier and Lee Counties. It is an ongoing effort of the Society to publish and disseminate reports and manuscripts (Lee et al. 1993, 1997, 1998, Beriault 1973, 1982, 1986, 1987, Beriault and Strader, 1984). Many of these reports deal with small interior seasonal sites. This avocationist society is one of the strongest voices for the protection of Collier and Lee County archaeological resources, and they have been careful to document and control their excavations, the majority of which are salvage operations on sites that have been heavily impacted. In addition, Beriault has provided several unpublished manuscripts as to site types and areas (Beriault 1972, 1987).

A site search with the Florida Division of Historic Resources indicated that there are two archaeological sites previously recorded for Section 27. These are 8CR92 and 8CR477 and are characterized as scatters of shell refuse with the presence of some sand-tempered plain ceramics in the case of 8CR92 situated on xeric areas to the west of the subject parcel.

Cultural Summary

Stirling was the first to distinguish the indigenous prehistoric cultures of southern Florida in 1936 by defining a Glades cultural area, including all of south Florida (Carr *et al.*, 1994b:9; Milanich, 1994:5-6). Griffin (1988) pointed out that this was not formulated as a strict cultural area, but it was rather a geographic region with some common cultural traits. Kroeber (1939), in a review of North American prehistory, utilized a slightly different term, the "South Florida Area", basing his definition on both environmental and cultural factors. Subsequently Goggin delineated more particular boundaries for southern Florida and divided the region into three sub-areas: "Okeechobee" around Lake Okeechobee, "Tekesta" for southeast Florida and the Florida Keys, and "Calusa" for Southwest Florida (Carr *et al.*, 1994b:10; Goggin, 1947:114-127).

Following Goggin's study, subsequent researchers have refined or altered the cultural distinctions attributed to southern Florida's prehistoric populations. There has been criticism that Goggin's names and definitions were based on historic accounts of the main (proto) historic groups found in the respective regions and not on the archaeological evidence of spatial, temporal, and cultural differences (Sears, 1966; Griffin, 1974; Carr and Beriault, 1984; Griffin, 1988). Griffin, in particular, questioned the distinctions. He believed that South Florida cultures varied only by local environmental conditions and ceramic exchange rates. Griffin believed the inhabitants of prehistoric southern Florida were mainly dwelling on the coast and that the interior was nearly uninhabited and under-utilized. Griffin designated the entire southern Florida region as the "Circum-Glades" area (Eck, 1997:5; Griffin, 1974:342-346). This new designation for the area was furthered by a widely circulated book on Florida archaeology by Milanich and Fairbanks (1980). Griffin later (1988) retreated to some extent from his earlier position as further research (particularly by Ehrenhard, Carr, Komara, and Taylor in the Big Cypress and Carr in the eastern Everglades in the 1970s and 1980s) showed abundant sites (and concomitant use and habitation) in the interior and Everglades.

Carr and Beriault, in particular, have taken issue with the concept of a Circum-Glades region. Carr's research in the Big Cypress and Everglades and his subsequent analysis demonstrating variation of key cultural markers (particularly in decorated ceramics) formed the basis for this contention. There is abundant evidence for cultural (and probably political or tribal) diversity in the various areas of south Florida. Carr and Beriault particularly noted and defined differences between the lower southwest Florida coast, which they termed the "Ten Thousand Island" region, and the area to the north, which they called the "Caloosahatchee" region. This latter area they believed to be the seat of the historic Calusa chiefdomship, although previous (and some subsequent) researchers have called the entire southwest Florida from Cape Sable to the Cape Haze peninsula (and beyond) in Charlotte County "Calusa".

Griffin, in his definitive 1988 synthesis on Everglades archaeology, attempted to reconcile and refine some of the conflict in the definition of south Florida prehistoric and historic culture areas. As stated by Carr and colleagues (1994b), "the issue...appears in part to be one of trying to determine the significance of regional and temporal variation, rather than whether these differences are real." There is evidence that changes through

time in regional political affiliations or realties makes any model *not* addressing this complex issue two-dimensional. The Calusa hegemony that was in place by the time of the arrival of Europeans may have begun as early as 800 AD in the Ten Thousand Island "district" or area (Griffin, 1988:321; Carr *et al.*, 1994b:12). There is currently ongoing research to further refine present thought as to cultural affiliations in south Florida. It would seem only a matter of time before new directions and emphases provide a more accurate summation of south Florida cultural affinities.

Using the present models, the coastal zones of Collier County and southern Lee County contain three distinct culture areas. Indian Hill on Marco Island lies thirty miles from the projected interface by Carr and Beriault (1984) of the Caloosahatchee area (called the "the 'heartland' of the Calusa", Carr *et al.*, 1994b:12) to the north, and the Ten Thousand Islands area to the south. At a yet undefined point to the east lies the Okeechobee cultural area, but the boundary, if it is a definite, fixed one, is likely to occur in the vicinity of the Immokalee rise forty miles or more to the northeast of Indian Hill. Further work is in progress by Carr to address the issue of where the southwest boundaries of the Okeechobee culture area occur.

Temporal Periods and Adaptations

At the same time that south Florida archaeological cultural models have evolved over the past 60-plus years, so have the temporal markers or framework on which we base evolution of that culture. Much of this latter effort has resulted from comparisons made between the recovered artifacts from the 100-year period of scientific and *non*scientific excavation and collection by the various individuals and institutions (and others) enumerated in part above. This Floridian effort must be seen against the broader background of archaeological work in eastern North America and the New World as a whole. All of these efforts have been mutually complimentary and certainly not exclusive.

In south Florida, the following periods and adaptations seem to be generally accepted. Part of this chronology involving the later or Formative period is called the Glades sequence in honor of Goggin, the greater part of whose work in defining the ceramic sequence or markers has withstood the test of time and subsequent criticism (Goggin, 1939, 1947, 1949c). From Goggin's day to present, pottery variability in form, substance, and decoration has proven useful for providing time markers, at least during the archaeologically-brief ($\pm$ 3500 year) period spanning the late Archaic and Formative periods that it was produced. Other artifact types and their variations have, to present, proven somewhat less reliable as absolute indicants of prehistoric age. Radiocarbon dating, a phenomena of the last 30-plus years, provides, within the standard deviation expressed in plus-or-minus years BP (before present), a relatively absolute date for a given sample and provides a yardstick to measure traits or distinctions in provenienced artifacts. Determining and adequately defining what traits we can discern against this absolute is part of the ongoing function of the regional archaeological effort.

The following information is generalized and abbreviated. The dates are approximate; transitions between periods are in reality more gradual that the manner they are expressed for convenience.

Paleo Period (14,000 - 8,500 BP)

During the Paleo Period, the first Native Americans began moving into the southeastern portion of North America and Florida. Most evidence of their presence in our state can be reliably dated to about 10,000 BP.

There are no known Paleoindian sites in Collier County. Several are documented from elsewhere in south Florida, including Warm Mineral Springs and Little Salt Springs in Sarasota County (Cockrell and Murphy, 1978; Clausen and Gifford, 1975), Harney Flats in Hillsborough County (Daniel and Wisenbaker, 1987) and the Cutler Fossil Site in Dade County (Carr, 1986).

During this period, the terminal Wisconsian ice age, the climate was probably less extreme, with cooler summers and warmer winters. The climate was also drier, and sea levels were lower (Carbone, 1983; Allerton and Carr 1988a; Griffin, 1988).

One reason that possible Paleo period sites have not been discovered in Collier and Lee Counties is that the shoreline may have been as much as 100 miles further west due to lower sea levels. Drier conditions may have made the interior very inhospitable, and the shallow estuarine and littoral sites that existed were flooded by post-ice age Holocene sea rises.

Any possible interior sites from the Paleo Period may be unrecognizable due to lack of diagnostic artifacts, subsequent reuse of site areas, low population density, and few permanent camps. These and other factors may help explain the absence to date of identifiable Paleo period sites in Collier and Lee Counties. On the other hand, the southwest Florida coast south of Charlotte Harbor may have been uninhabitable during this period due to an absence of key conditions for the successful hunting of large game, a trait of the Paleo period.

Archaic Period (8,500 - 2,500 BP)

The Archaic period reflects a post-Pleistocene shift in adaptation marked by an increase in the seasonal exploitation of a broad spectrum of food resources, a more restricted use of territory due to regional specialization, and more semi-sedentary habitation sites. No ceramics are known until the Late Archaic. During the Archaic, regional specializations became more marked, not only with material culture but also with distinct local utilization of local plant and animal resources.

As mentioned above, there is, as yet, no firm evidence of human presence in southwest Florida during the Paleo period. This apparently is also true for the Early Archaic (8500-7000BP), as there is evidence of an environment too arid to support scrub oak, and the presence of shifting wind formed dunes (Watts, 1975; Widmer, 1983). No early Archaic sites are known from southwest Florida (Allerton and Carr, 1988:14).

By about 6500 BP mesic conditions began to spread, although localized xeric conditions continued (and still exist in some areas) through south Florida. Middle Archaic sites dating from this time are rare, although the Bay West Nursery site (8CR200) in Collier County and the Ryder Pond site (8LL1850) in Lee County near Bonita Springs provide evidence of occupation, as do several sites in southeast Florida. The Bay West site is a Middle Archaic cypress pond cemetery, associated with a lithic scatter. The Ryder Pond site is a similar mortuary pond site surrounded by pine flatwoods (Carr and Heinz, 1996). Beriault has also recorded several aceramic shell scatters in coastal sand hills (paleo dunes), some of which may date to the Middle Archaic. Griffin (1988) summarizes evidence indicating that despite the rise of available surface water, brackish estuaries and other major modern landscape features had not formed, and population (or repopulation) was still sparse.

During the Archaic period sea levels began to rise at a fairly rapid rate, estimated at 8.3 cm. per 100 years 6000-3000 BP, and 3.5 cm per 100 years afterwards (Scholl *et al.*, 1969), although whether sea levels were steadily rising or oscillating is still unclear (see Griffin 1988; Allerton and Carr, 1990 for recent reviews of the literature). Data is somewhat difficult to sort out as sea level rise was accompanied by both shore regression and transgression in places. As conditions became wetter (and warmer) in the interior, cypress swamps and hardwood sub-tropical forests established themselves by about 5000 BP (Carbone 1983, Delcourt and Delcourt 1981).

By late Middle or early Late Archaic times (4000 years BP) there were significant shell mounds and middens on Horrs Island, Marco Island, and elsewhere in the coastal regions, suggesting that the estuary system had been established and was being utilized to provide the subsistence basis for denser populations and semi-sedentary settlements (Morrell, 1969; Cockrell, 1970). At Useppa Island in Lee County, excavations have provided radiocarbon dates from pre-ceramic shell middens ranging between roughly 4900 BP and 5600 BP, suggesting that the Middle Archaic as well as Late Archaic periods saw a growing dependence on shellfish resources (Milanich *et al.*, 1984). There are aceramic coastal sand hill and interior wetland sites as well, but these have not been demonstrated to be Archaic despite some investigators equating aceramic with preceramic. Radiocarbon dates for these sites would clarify this point.

Allerton and Carr (1988) noted that a number of stratified sites in the wet mangrove and marsh areas of the Everglades, as well as on Horrs Island, contain Archaic preceramic horizons, although it is unclear if aceramic was equated with preceramic. Additional supporting evidence of interior use by Archaic peoples will provide a new dimension to the archaeological understanding of Archaic resource utilization. Allerton and Carr point out that if the wet tree islands were initially used by Archaic people, then at least some of the hardwood hammocks in swamp environments were raised in elevation (with subsequent changes in vegetation) due to human activities. Post-Archaic people extensively utilized these hammocks and continued to advance their development as distinct geomorphic features. This is obviously an area where additional archaeological investigations have a potential to contribute to understanding the interaction of geomorphic and cultural evolution in southwest Florida.

Toward the end of the Archaic there was the introduction of fiber-tempered pottery into the archaeological record, often used as a marker of the Orange Phase, commencing at about 4000 BP, either coincident with or soon after the development of the extensive shell middens. The Late Archaic Orange Phase subsistence strategy is characterized by intensive use of shellfish and marine resources, as well as being marked by an accelerated trend toward regional specializations.

A number of the large shell middens on Marco Island (Cockrell, 1970), Horrs Island (Russo n.d.), Cape Haze (Bullen and Bullen, 1956), and elsewhere date from this period or earlier, as they contain fiber-tempered ceramics, although there are known aceramic (preceramic?) levels below the Orange Phase deposits that may date to the Middle Archaic. These shell middens are usually capped by deposits from later occupations as well.

Formative Stage or Glades Periods (2500 BP - 500 BP)

The Formative or Glades adaptation, based on hunting, fishing, and the harvesting of shellfish and plants, was similar to the Archaic, but was characterized by increasing specializations in gathering strategies and tool-making. Earlier writers have typed this hunter-gatherer society as primitive or "low-level" (Kroeber, 1939). However, there is certainly evidence from the specialization of tools, from the beautifully-executed wood carvings from Key Marco in Collier County and those from Fort Center near Lake Okeechobee (Cushing, 1897; Sears, 1982), and from the historic accounts of the Calusa hegemony, that the south Florida area had an advanced culture that Goggin (1964) has called a "stratified non-agrarian society".

The preceding Late Archaic late Orange phase (also known as the transitional phase) was marked by changes in pottery, and terminated with the relatively rapid replacement of fiber-tempered pottery with sand-tempered, limestone-tempered, and chalky "temperless" pottery. It was also characterized by changes in ceramic style and often by reduction in the size of stone projectile points.
The Formative Stage (beginning about 2500 BP) is divided in south Florida into the Glades Periods sequence. Subsistence adaptation is marked by a narrowing spectrum of resource use, as well as continued trends toward regional diversity and ecological specializations, marked in part by the proliferation of inland resource extraction encampments.

Formative Period cultural evolution eventually led to increased political sophistication, perhaps initially of modest dimensions, but culminating in broad regional political alliances and regulation of materials and goods (*i.e.* resources) between the coast and inland areas (Milanich and Fairbanks, 1980). By protohistoric and contact times the Calusa were the dominant tribal group, gaining broad political influence and at least partial control over much of south Florida as far north as central Brevard County. Historically, the main Calusa village has been regarded as "Calos" on Mound Key in Estero Bay in Lee County, although 50 to 70 large villages were under direct Calusa control by contact times (Griffin, 1988).

During the Formative Periods, village sites grew to the proportions of large multi-use complexes, particularly along the coast and barrier islands of southwest Florida. Some of the projected intra-site functions of the elements of these complex shellworks were as temples, canals, causeways, temple and platform mounds, courtyards and watercourts. Current research involving the excavating of large contiguous areas of these shell mound complexes is beginning to establish demonstrable uses for the features of these large sites, upon which heretofore were merely speculated (Widmer, 1996).

Tidal estuary rivers and inland hammocks along deep water sloughs, marshes, and permanent ponds were seasonally visited for extraction of natural resources, and are now marked by small to relatively large black dirt middens, some of which may have been semi-permanent hamlets. The pine and cypress flatwoods appear to have supported few sites, although areas around Lake Trafford and other rich interior areas developed substantial sites, including sand mounds, and may be more similar to the Okeechobee cultural area than to the coastal cultures.

In 1992, Dickel and Carr excavated an apparent Deptford Period burial mound (the Oak Knoll Site) in the Bonita Bay Tract north of the Imperial River. Exotic trade items and seventy or more human burials were among the material findings. The resulting conclusions and subsequent surveying and testing of the Bonita Bay Shell works (8LL717) suggest social stratification and complexity may extend further back into the past than the Formative period (Dickel and Carr, 1992).

Coastal sites (shell middens) reflect a predominate dependence on fish and shellfish, wild plant foods and products, and larger inland game. The inland sites show a greater reliance on interior resources, including large, medium and small mammals, turtle, small freshwater fish, alligator, snake, frogs, and, sometimes, freshwater shellfish. Interior and coastal resource exchange can be documented by the consistent finds of moderate amounts of marine shell in many interior middens, as well as interior resources in coastal middens.

The Formative Stage (with a nod to Goggin) has been often termed the Glades cultural tradition. Much of this "tradition" is focused on decorated ceramics, the minority in the archaeological record, although the majority of recovered (rim) sherds are plainware. However, despite this, pottery (and its decorations) is usually utilized as the major temporal marker(s) for fitting sites into a temporal framework. Changes in pottery do not represent mere changes in artistic motifs, but reflect inter- and intra-regional trade contacts and outside cultural influences (possibly through exogamy, shifting of populations, and even the through evolution of a culture through time). Whatever the influences, the Glades tradition is continuous from post-Archaic times to contact times.

Despite the fact that exogamy is likely to have been practiced, traders or other specialists probably moved between major cultural areas in small numbers, and genetic flow probably accompanied cultural exchange, although perhaps not on the same scale. This may have increased in later times due to use of traditional obligations of kinship and intermarriage to stabilize alliances that were not codified into a formal legal system.

The following table has been modified from several sources, but it is predominantly based on Milanich and Fairbanks (1980), Griffin (1988), and Allerton and Carr (1990). Dates have been rounded somewhat and translated to Before Present (BP). There are some differences of opinion in the dates, particularly about the timing of the Glades Ia and Ib division.

TABLE 1: GLADES CULTURAL SEQUENCE

Glades Ia (2500 BP - 1500 BP)	First appearance of sand tempered plain pottery, but little else to mark a difference and the preceding Late Archaic. Sand tempered plain remains a predominate type throughout the Glades sequence.
Glades Ib (1500 BP - 1250 BP)	First appearance of decorated sand-tempered ceramic (Ft. Drum Incised, Ft. Drum Punctated, Cane Patch Incised, Turner River Punctate), plainware common. Pottery rim grooving and incision decorations become widespread.
Glades IIa (1250 BP - 1100 BP)	First appearance of Key Largo Incised, Sanibel Incised, Miami Incised, and plainware is common. Distinction between ceramics of southeast and southwest Florida becomes apparent. Ten Thousand Island area distinct from Caloosahatchee area. First mound construction- increased social stratification? Population size may have approximated that at contact.
Glades IIb (1100 - 1000 BP)	First appearance of Matecumbe Incised; Key Largo Incised common on east coast, Gordon's Pass Incised common on the west, and plainware common throughout.
Glades IIc (1000 BP - 800 BP)	First appearance of Plantation Pinched, but few decorated wares with a preponderance of plainware (there is some evidence of population reduction- perhaps due to a cataclysmic event). Non-local pottery (*e.g.* St. Johns Plain and Check Stamped, Belle Glade Plain) appears.
Glades IIIa (800 - 600 BP)	First appearance of Surfside Incised, increasing quantities of St. Johns pottery (especially on East Coast), and Belle Glade pottery.
Glades IIIb (600 BP - 500 BP)	Glades Tooled rims appear (rare on West Coast), zoned punctate designs, but general decline in incised decoration. Belle Glade ceramics common

	on west coast. St. Johns ware present but rare on West Coast, common on East Coast.
Glades IIIc (500 BP - 300 BP)	Continuation of IIIb ceramics, with pronounced flaring of rims and embossing on Glades Tooled ceramics. Mound burial construction less common with intrusive burials into existing mounds, appearance of European goods, plainware common.

By European contact times (the first half of the 16th century), the southwest coast of Florida was maintaining a vigorous, possibly expanding political chiefdom with a broad network of alliances, as well as a rich and ancient cultural tradition without an agricultural base. However, direct conflict with Europeans and, more importantly, exposure to European diseases led to the rapid decline of the Calusa. By the mid 1700s their numbers had greatly diminished. The remnants of this once-powerful tribe may have left south Florida in the 1760s with the Spanish for relocation in Cuba. Others may have become indistinguishable from Spanish Cuban fishermen who worked the great fishing "ranchos" in the Pine Island Sound region catching and salting fish for export to Cuba. Other groups of Native Americans may have fused with the Creek-derived Seminoles.

In the late 1700s, members of the Creek tribe were forced into Florida from Georgia and Alabama. They were later called Seminoles, from the Spanish term "cimmarones". Pressures from colonial (and later) white encroachment on their traditional territories forced them into the Big Cypress and Everglades area by the 1830s. By this time, most of the cultural identity of pre-contact times had been lost, although some of the Calusa subsistence strategies may have been partly adopted by Seminoles. A number of Seminole period sites have been documented on earlier Glades middens. This coincidence may in part reflect the paucity of high land in the interior (Ehrenhard *et al.*, 1978, 1979, 1980; Ehrenhard and Taylor, 1980; Taylor and Komara, 1983; Taylor, 1984, 1985). Older midden sites (particularly those called "black dirt" middens) can be rich agriculturally as well as archaeologically, making these foci for historic Seminole gardens and fruit groves.

Seminole periods in south Florida are divided into I (1820-1860), II (1860-1900) and III (1900-1940) (Ehrenhard *et al.*, 1978). Post-1940 Seminole camps are designated "Late Seminole" in some reports. These designations reflect the different stages of Seminole migration into south Florida, Seminole displacement and active conflict with the expanding American culture, and the eventual refuge by Seminole remnants in Big Cypress and Everglades regions. Military records, and, in particular, several sketch maps by military personnel done in the 1830s and 1840s and the Ives military map of South Florida (1856) shows evidence of investigations at and near "Malco Inlet", "Casimba", "Good Land", and "Cape Romans".

Seminole Wars in the Southwest Florida Area

The advent of the Second and Third Seminole Wars (1834-38, 1855-58) disrupted the peaceful settlement of the Southwest Florida region. There were a number of forts, "temporary" and permanent, established along the Caloosahatchee River during this time. Fort Dulaney was established at Punta Rassa near the mouth of the Caloosahatchee in 1837 and was occupied intermittently through 1841, and again in 1855. After a hurricane destroyed Ft. Dulaney in 1841, Fort Harvie was established upriver. The name of this fort was changed in 1850 by its commander General Twiggs to honor his new son-in-law, Col. Abraham Myers. Fort Myers was thus created, and became the chief fort of the region.

From this central administrative point, a line of forts was established up the Caloosahatchee River. They were: Fort Denaud, Fort Adams, Fort Thompson, and Fort Center on Fisheating Creek leading into Lake Okeechobee. Other forts and "temporary depots" were established south into the Big Cypress Swamp such as Fort Simon Drum, Temporary Depot Number One, Fort Doane, Fort Simmons, Fort Keis, Fort Foster, Fort Shackleford, and others.

A number of military expeditions were sent south along the coast during the Second and Third Seminole Wars with the objectives of interdicting trade in guns and ammunition between the Seminoles and the Spanish-Cuban fishing community, and hunting and capturing Indians. General Thomas Lawson, who had just been appointed Surgeon General of the United States, commanded one of the early notable expeditions. Lawson's expedition left Fort Harvie (Fort Myers) in February 1838. Elements of Lawson's command explored the area in and around the Caxambas Point area, discovering two abandoned Indian villages in the Blackwater River/Palm Bay area. Other expeditions bivouacked at Cape Romano and Caxambas Point. Colonel Rogers, of the ill-fated Parkhill expedition, wrote several dispatches from Cape Romano in the Caxambas area in 1858, describing the ambush of Captain Parkhill's party at the headwaters of Turner River. The Collier County Museum is the repository for a collection of military artifacts purportedly found by a local collector near Indian Hill in the early 1960s. This material may have originated with one of the various military expeditions stopping at Caxambas Point.

Hole In the Wall Swamp History

The Hole-In-The-Wall Swamp area has been the backdrop for a significant part of the earliest modern history for the Naples area. Much of this history is tied to that of a single family, the Franks, who established residences, farming and ranching activities in the area immediately north of the subject parcel by the 1930s. Eddie Frank Sr., was a successful operator of the first auto repair shop in Naples, ran one of the first hardware stores, the purported inventor of the Swamp Buggy, an early homemade all-terrain vehicle used for hunting and traversing the back country in South Florida. Mr. Frank and several of his sons lived near the Hole-In-The-Wall Swamp, developing part of the area as two golf courses and golf-course communities by the 1970s. Other families living near the subject parcel were the Smiths and Thurners, both of whom farmed in the general

area. One quarter mile to the south of the parcel is an historic garden of introduced tropical plants begun in the early 1900s by botanist Henry Nehrling and expanded in later years by its then-owner, Julius "Junky' Fleischman under the name Caribbean Gardens.

Methodology

Prior to conducting fieldwork in the project parcel, relevant archives and literature were reviewed. This included, but was not limited to, studying previous archaeological reports for sites in Collier County, reviewing information from the Master Site File in Tallahassee concerning nearby sites, and examining USGS maps of the project area. Also, black and white and color aerial photographs from the project area, which could aid in revealing anthropogenic changes to the topography and floral communities, were interpreted.

Research Design

This phase 1 archaeological survey of the Fleishmann parcel incorporated the use of certain predictive archaeological site models. These models are based on topographic and vegetative attributes that are associated with prehistoric and historic sites in coastal Collier County. These models postulate that high ground areas in close proximity to rivers sloughs and wetlands are high probability areas for prehistoric archaeological sites. The elevational information on the USGS Naples North Quadrangle map for the area also was used. It was predicted that overall, the project parcel had a moderate probability of containing archaeological sites because of the of the parcel's topographic/vegetative diversity and the presence to the east of high probability areas near the Gordon River.

Fieldwork

All areas of the parcel were assessed by pedestrian survey. Initial visual inspection of the subject parcel identified one area of moderate to high archaeological probability. Four 45 cm square shovel tests on a NW-SE axis were dug across the longest dimension of the proposed retention pond area. In addition, thirteen other shovel tests were dug judgmentally from west to east across the parcel at intervals of about 100 to 125 feet and from south to north along the upland/slough interface in the eastern part of the parcel (Figure 6). These tests resulted in the discovery of an archaeological site, the Luckey Lane Site, 8CR925, which is characterized as a shell scatter concentration in the southeastern portion of the parcel. An additional sixteen shovel tests were excavated at 25-foot intervals to delineate the site boundaries. A total of twelve pin flags were placed around the site's boundaries.

All shovel tests were dug averaging 24-inch (60 cm.) depth or until sterile sediments were encountered across the parcel. All excavated material was sifted through a ¼" diameter mesh screening and any material of archaeological significance collected and sent to AHC in Davie for cleaning, analysis, and conservation.

Collections

Nine field specimen bags (FS-1 through 9) of archaeological material was recovered and sent to the AHC laboratory at Davie for cleaning, conservation, and analysis.

Informants

No informants were interviewed for this project.

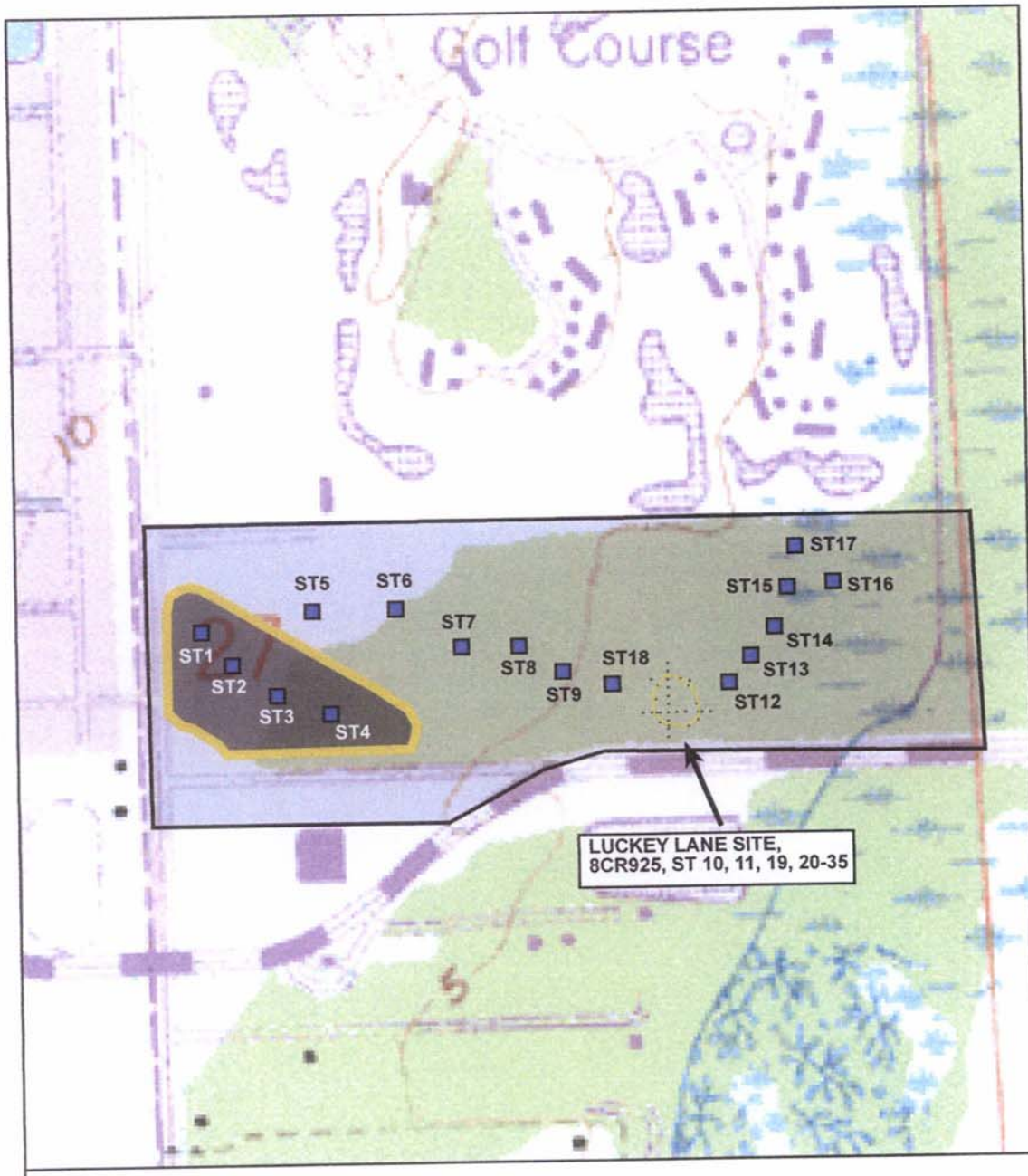

Figure 7. Map of the Fleischmann parcel area showing location of shovel tests (see Figure 8 for site CR925 shovel tests).

USGS Map: NAPLES NORTH, revised 1991

Site Summary

Site Name:	Luckey Lane Site
State Site Number:	8CR925
Environmental Setting:	Slash pine flatwoods west of a slough/creek
Location:	Township 49S, Range 25E, Section 27
Site Type:	Shell Scatter
Site Function:	Habitation, resource extraction
Description:	The site is a diffuse shell scatter of shallow deposition with recovered material located no deeper than 12 inches throughout the site. One sherd of sand-tempered plain ceramics was recovered, indicating the site likely dates to the Formative period. The site measures about 150 feet north-south and about 75 feet east-west. Shell species observed included fighting conch, clam , and oyster. The site lies 500 feet to the west of the headwater/slough of the Gordon River and occupies the highest ground closest to the slough. This site may have been a short-term camping area or food-processing site covered by Downey Rose myrtle, cabbage palm and live oak.
Chronology:	Prehistoric: Formative period
Collections:	Shell refuse and paste sherd of sand-tempered ceramics (FS 2- 9)
Previous Research:	None
Preservation Quality:	Good: According to a 1962 aerial photograph, (Figure 3) a citrus grove was located on top of the site, probably resulting in disturbances to the site area.
Ownership:	Public: Collier County
Significance:	Site is of local significance and is not eligible for listing on the National Register of Historic Places.

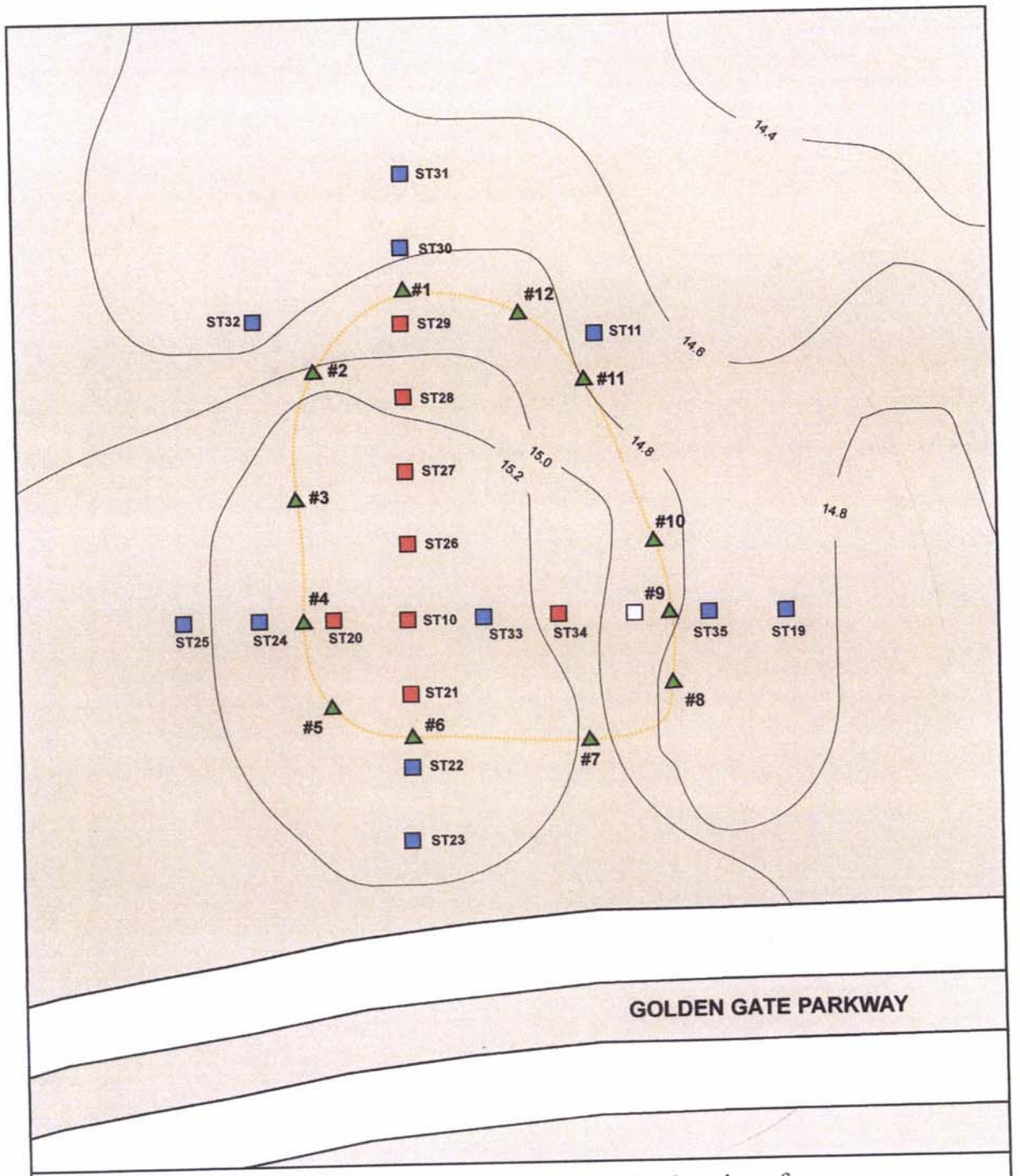

Figure 8. Map of the Luckey Lane Site, 8CR925, showing location of shovel tests and relative elevations.

Results and Conclusions

This phase 1 assessment of the Fleischmann parcel resulted in the investigation of all parts of the parcel. Based on regional archaeological site models, it was determined that the upland area adjacent to a wetlands area had a moderate potential for archaeological sites being associated with it. Thirty five shovel tests were dug across the parcel which resulted in the discovery of one archaeological site, the Luckey Lane Site, 8CR925.

Site CR925 is a prehistoric shell scatter and camp with cultural material located no deeper than 12 inches (30 cm). One sherd of sand-tempered plain ceramics was recovered, indicating that the site likely dates to the Formative period. Shell species observed included fighting conch, clam, and oyster. The site lies 500 feet to the west of the headwaters/slough of the Gordon River. This site may have been a short-term camping area or food-processing site. The site measures approximately 150 feet north-south and 75 feet east-west.

It is the consultant's opinion that site CR925 is a formative period shell scatter, and is of local significance. Based on available data, the site is not regarded as potentially eligible for listing on the National Register of Historic Places. If the area of the site is to be impacted, then phase two testing is recommended to determine the full site extent and significance.

Although a thorough and systematic effort was made to locate sites on the subject parcel without positive results, there is still the potential of small archaeological sites, features or artifacts existing, and should subsequent development reveal this, then relevant agencies and the consultant archaeologist should be contacted. In the event that human remains are discovered then the provisions of Florida State Statue 872.05, the Unmarked Human Remains Act, will apply.

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Appendix 1: Fleischmann Shovel Test Log
John Beriault, John Crump and Scott Faulkner 7-5-05 through 7-11-05

ST1: (18 in. x 18 in.) Negative. Placed in the northwestern portion of the retention pond area

0-24 in.	Very light gray sand
24-28in	Sand lightens to whitish
28-30in	Brown hardpan sand

ST2: (18 in. x 18 in.) Negative. 100 feet southeast of ST1.

0-12 in	Light gray sand
12-28in	Whitish sand
28-30in	Dark gray-brown hardpan sand

ST3: (18 in. x 18 in.) Negative. 100 feet southeast of ST2, southern mid portion of retention pond area.

0-20 in	Light gray sand
20-24in	Whitish sand
24-30in	Light tan to brown hardpan sand

ST4: (18 in. x 18 in.) Negative. 125 feet southeast of ST3.

0-16 in	Dark gray sand
16-28in	Dark gray-brown hardpan sand

ST5: (18 in. x 18 in.) Negative. 250 feet east of ST1, east of retention pond area working in an east-southeast direction across the parcel.

0-18 in	Light gray sand
18-24in	Dark grayish- brown hardpan sand

ST6: (18 in. x 18 in.) Negative. 150 feet northeast of ST5

0-12 in	Light gray sand
12-26in	Whitish sand
26-28in	Dark gray hardpan sand

ST7: (18 in. x 18 in.) Negative. 150 feet southeast of ST6

0-20 in	Dark gray sand, one pc. eroded clamshell **(FS-1)**
20-24in	Brown hardpan sand

ST8: (18 in. x 18 in.) Negative. 150 feet east-southeast of ST7

0-24 in	Gray sand
24-28in	Brown hardpan sand

ST9: (18 in. x 18 in.) Negative. 150 feet east of ST8, mid-portion of parcel

0-20 in	Dark gray sand

20-24in Brown hardpan sand

Note: St10-17 are a line of shovel tests running from the southern edge of the parcel north to northeast along the upland/slough interface in the eastern portion of the parcel.

ST10: (18 in. x 18 in.) Negative. 100 feet north of Golden Gate Parkway in an area of moderately elevated ground with slash pines, live oaks and cabbage palms where a pronounced scatter of eroded shell was observed (Now called the Luckey Lane Site, 8CR925)

0-8 in Very light gray sand, one fighting conch at 6 inches depth, clamshell fragments (**FS-2**)
8-32in Whitish sand

ST11: (18 in. x 18 in.) Negative. 100 feet northeast of ST10 working northerly along interface area

0-6 in Gray sand
6-12in Light gray sand
12-26in White sand

ST12: (18 in. x 18 in.) Negative. 100 feet northeast of ST11

0-10 in Light gray sand
10-28in Whitish sand

ST13: (18 in. x 18 in.) Negative. 100 feet north-northeast of ST12

0-8 in Light gray sand
8-28in Light tannish-white sand

ST14: (18 in. x 18 in.) Negative. 100 feet north of ST13

0-8 in Light gray sand
8-28in Whitish sand
28-29in Brown hardpan sand

ST15: (18 in. x 18 in.) Negative. 100 feet north-northwest of ST14

0-8 in Gray sand
8-12in Light gray sand
12-28in Light tan sand

ST16: (18 in. x 18 in.) Negative. 100 feet northeast of ST15, 60 feet west of marginal red mangroves marking the toe of slope downward toward the slough/creek area

0-12 in Gray sand
12-28in Light tan sand

ST17: (18 in. x 18 in.) Negative. 100 feet northeast of ST16 in an elaborate deserted homeless camp 125 feet south of northern parcel boundary and Wilderness Golf Course

0-8 in Gray sand
8-24in Light tannish-gray sand

24-28in Tannish-white sand

ST18: (18 in. x 18 in.) Negative. In southeastern quadrant of parcel approximately 150 feet northwest of ST10 on west side of old north/south oriented farm ditch
0-12 in Gray sand
12-24in Light yellow-tan sand

ST19: (18 in. x 18 in.) Negative. 125 feet east of ST10 in terrain dropping in elevation to the east
0-24 in Light gray sand
24-30in Whitish tan sand

Note: the following shovel tests were dug systematically and judgmentally to delineate the boundaries of the Luckey Lane Site, 8CR925

ST20: (18 in. x 18 in.) Positive. 25 feet west of ST10
0-9 in Light gray sand, oyster shell @ 4-6 inches depth **(FS-3)**
9-20in Whitish sand

ST21: (18 in. x 18 in.) Positive. 25 feet south of ST10
0-12 in Gray sand, oyster shell @ 0-4 inches depth **(FS-4)**
12-18in Whitish sand
18-22in Very light tan sand

ST22: (18 in. x 18 in.) Negative. 100 feet south of ST10
0-12 in Gray sand
12-18in Whitish sand
18-22in Very light tan sand

ST23: (18 in. x 18 in.) Negative. 75 feet south of ST10, 25 feet north of the north edge of Golden Gate Parkway
0-10 in Gray sand
10-22in Whitish sand

ST24: (18 in. x 18 in.) Negative. 50 feet west of ST10
0-12 in Gray sand
12-22in Whitish sand

ST25: (18 in. x 18 in.) Negative. 75 feet west of ST10
0-12 in Gray sand
12-22in Whitish sand

ST26: (18 in. x 18 in.) Positive. 25 feet north of ST10
0-12 in Light gray sand, fighting conch, oyster shell, one paste sherd STP ceramics **(FS-5)**
12-18in Whitish sand

ST27: (18 in. x 18 in.) Positive. 50 feet north of ST10, southern mid portion of retention pond area.

0-8in	Gray sand, oyster shell fragments **(FS-6)**
8-18in	Whitish sand

ST28: (18 in. x 18 in.) Positive. 75 feet north of ST10

0-6 in	Gray sand, fragments of oyster and clam shell **(FS-7)**
6-18in	Whitish sand

ST29: (18 in. x 18 in.) Positive. 100 feet north of ST10

0-12 in	Gray sand, fragments of oyster shell to 12in depth **(FS-8)**
12-16in	Whitish sand

ST30: (18 in. x 18 in.) Negative. 125 feet north of ST10

0-6 in	Gray sand
6-16in	Whitish sand
24-30in	light tan to brown hardpan sand

ST31: (18 in. x 18 in.) Negative. 150 feet north of ST10

0-6 in	Gray sand
6-12in	Whitish sand

ST32: (18 in. x 18 in.) Negative. 50 feet west of ST29

0-8 in	Very light gray sand
8-18in	Whitish sand

ST33: (18 in. x 18 in.) Negative. 25 feet east of ST10

0-10 in	Light gray sand
10-14in	Whitish sand

ST34: (18 in. x 18 in.) Positive. 50 feet east of ST10, southern mid portion of retention pond area.

0-8 in	Gray sand, oyster shell @ 4inch depth **(FS-9)**
8-12in	Whitish sand

Note: the point 75 feet east of ST10 was not excavated.

ST35: (18 in. x 18 in.) Negative. 100 feet east of ST10

0-8 in	Light gray sand
8-16in	Whitish sand

Appendix 2: Field Specimen Log, Fleischmann Parcel

Field Specimen Number	Provenience	Description
1	Shovel Test 7, 12 inch depth	One piece eroded clam shell
2	Shovel Test 10, 2-6 inch depth	One fighting conch, clam shell fragments
3	Shovel Test 20, 4-9 inch depth	Oyster shell fragments
4	Shovel Test 21, 0-4 inch depth	Oyster shell fragments
5	Shovel Test 26, 0-12 inch depth	One fighting conch, oyster shell fragments, one paste sherd STP ceramics
6	Shovel Test 27, 0-8 inch depth	Oyster shell fragments
7	Shovel Test 28, 0-9 inch depth	Oyster and clam shell fragments
8	Shovel Test 29, 0-12 inch depth	Oyster shell fragments
9	Shovel Test 34, 4 inch depth	Oyster shell fragments

A PHASE II ARCHAEOLOGICAL ASSESSMENT OF THE LUCKY LANE SITE (8CR925), FLEISCHMAN PARCEL, COLLIER COUNTY, FLORIDA

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AHC TECHNICAL REPORT NO. 767
AHC PROJECT NO. 2006.131
JANUARY 2007

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Consultant Summary

In December 2006, the Archaeological and Historical Conservancy Inc. (AHC) conducted a Phase II archaeological assessment for CH2M Hill of the Lucky Lane Site (8CR925), located in the ±50-acre Fleischmann parcel. The Fleischmann parcel is located east of the City of Naples in west-central Collier County. The Lucky Lane Site (8CR925) was discovered during a Phase I assessment of the parcel in July 2005. This Phase II investigation was conducted to determine the site's extent and significance

This assessment was conducted to fulfill historic resource requirements in response to Florida's Chapter 267. This assessment was conducted in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties. The work and the report conform to the specifications set forth in Chapter IA-46, Florida Administrative Code.

The Fleischmann parcel encompasses part of Section 27 in Township 49S, Range 25E (Figure 1). The parcel presently contains vacant land with second-growth dense successional vegetation, both native and exotic. The parcel has been impacted by farming activity dating back to 60+ years ago. The extreme eastern end of the parcel contains the headwaters for the Gordon River, which drains into Naples Bay to the south. No structures are located on the project parcel, although there was a residence built c. 1958 in the western portion of the parcel which has since been demolished. A portion of the parcel will be used by Collier County to create a water treatment facility.

This Phase II scope of work included the systematic excavation of 160 shovel tests at 5 and 10 meter intervals across the site area on the cardinal points centering on a datum established near ST-10 which was given an arbitrary 100N, 100E designation. This phase of work delineated and established precise site boundaries and identified locations of cultural material across the site. Additionally, a one-meter-square unit was excavated in the southeastern quadrant of the site. This unit was dug to sterile sediments at a depth of 50 cm.

Site 8CR925 is a shell scatter representing a possible seasonal campsite dating from the early to middle Formative Period. It was determined that the site has been adversely impacted by farming activity during the past sixty years. Much of the cultural material appears redeposited as a result of plowing.

It is the consultant's opinion that archaeological site 8CR925 is of local significance but is not regarded as eligible for listing on the National Register of Historic Places due to extensive disturbance. No further archaeological investigation is recommended although archaeological monitoring should be performed when the site is cleared for development.

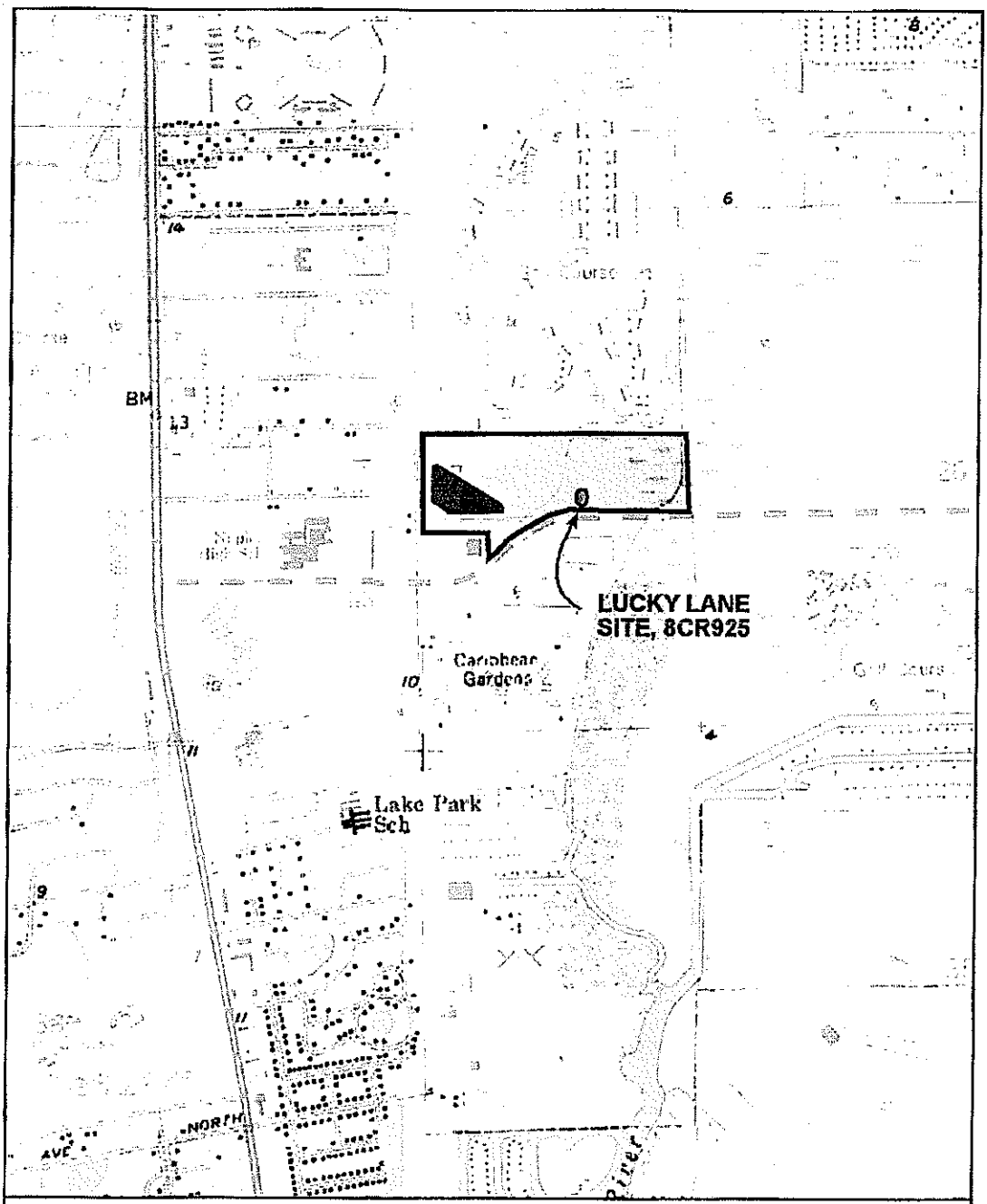

Figure 1. Map of the Fleischmann Parcel area with the retention pond sub-area outlined in yellow, showing location of the Lucky Lane Site, 8CR925

Project Setting

The Lucky Lane parcel is located in part of Section 27, Township 49S, Range 25E located east of the City of Naples in west-central Collier County, Florida (Figure 1). The approximately ±50-acre parcel is a polygon with the straight borders oriented to the cardinal points. Within the western part of the parcel is a 4-acre retention pond area which was investigated by AHC (Beriault 2005) The relevant USGS map is Naples North, Fla.

The Fleischmann parcel is situated on abandoned and overgrown agricultural land. The parcel is located east of Goodlette-Frank Road and north of Golden Gate Parkway. Prior uses of the property included a citrus grove and vegetable farming. A small house constructed circa 1958 occupied a portion of the area under consideration for the retention pond. This frame structure with asbestos shingle siding was demolished and removed in the late 1980s. At present a solitary royal palm and several other ornamental exotics mark the house site. The area contains a mix of native and exotic vegetation that has recolonized the area over the last fifty years Ditching and furrows from prior agricultural practices are still discernible throughout the parcel.

The immediate region is moderately elevated country (12-15 feet, NGVD) vegetated in slash pine/saw palmetto flatwoods dropping gradually to the east toward the headwaters/slough for the Gordon River flowing south into Naples Bay. The area contained a dense mix of fresh and brackish water swamp with red mangroves bordering the creek and cypress swamp/maple swamp away from the creek and to the north. This swamp area was called "Hole-In-The-Wall Swamp" by the local inhabitants, as historically there was a cut trail running east-west across the slough slightly to the north of the subject parcel allowing early residents to cross this barrier for hunting and to access the interior woodlands north and east of Naples.

Slash pine flatwoods communities are usually situated on high ground west of Naples Bay/Gordon River. Historically, these communities, which contain a dense, often head-high understory of saw palmetto, were subject to and maintained by periodic forest fires. Fires started either naturally by lightning strikes or by prehistoric Indians or by early settlers to aid hunting or cattle grazing. Among the plants typically found in the slash pine/saw palmetto flatland/prairie environments are: slash pine, saw palmetto, gallberry, shiny lyonia, rusty lyonia, staggerbush, dahoon holly, ground oak, wire grass, broom sedges, shiny blueberry, xyris, and a variety of annual and perennial herbs and wildflowers blooming seasonally.

Flanking these high ground areas and running as north-south linear transverse depressions are deep sloughs, bald cypress swamps, and marsh ponds. These areas even with present-day drainage activities contain standing water much of the year and support a rich diversity of plant and animal life. Some of the plant species present include cordgrasses (*Spartina* spp.) and succulent marsh plants such as pickerelweed (*Pontederia lanceolata*) and arrowhead (*Sagittaria* spp.) and ferns such as swamp fern (*Blechnum serrulatum*), *Thelypteris* and *Osmunda* ferns. The deep open marshes of the area are likely relict burnt cypress solution holes and pond features as evinced by the abundant dead snags and logs of that species. At present, many of these features contain pop ash

(*Fraxinus caroliniana*), pond apple (*Annona glabra*), coastal plain willow (*Salix caroliniana*), and buttonbush. All of these environmental zones were heavily exploited by prehistoric Indians, early white settlers, and more recent recreational hunters.

A third community, now largely destroyed in the Naples area was xeric sand pine/live oak/rosemary scrub on a series of linear Pleistocene ridge features paralleling the coast and extending inland as much as two miles for the coast. A range of these ridge features existed immediately north of the subject parcel in the area of Wilderness Country Club.

The soil types for the area are fine white to gray sand mantles covering brown hardpan sands. Immokalee, Bassinger and Holopaw fine types predominate. At depths exceeding 20 feet there is frequently present a zone of decayed peat. Limestone caprock is generally not found surfacially in the immediate area of the subject parcel.

The Lucky Lane Site (8CR925) is a roughly ovoid area of less than an acre situated on a very slightly elevated area roughly 200 meters west of the Gordon River. The area is vegetated in marginal mesic/xeric vegetation consisting of scrub live oaks, scattered cabbage palms, and saw palmettos. The country to the east gradually drops in elevation toward the Gordon River slough. There is surface evidence on site of linear furrowing on a north-south axis, remnant farming activities from 60+ years previously. The immediate area contains a series of open sandy clearings visible as whitish patches on aerial photographs.

Coastal palmetto plain areas have the potential of yielding isolated artifact finds but are generally regarded as being apparently unattractive areas for settlement. Extensive developmental activity over the last thirty years in the coastal area north of Naples has confirmed the paucity or near absence of large sites in this zone. Recently bulldozed tracts have been ground-truthed by Beriault after the scraping and removal of vegetation. Very little cultural material besides isolated artifact finds resulted from these investigations in slash pine/saw palmetto flatwoods. However, adjacent elevated sandhills are a prime location for a site type referred to as coastal sandhill campsites.

Sandhills are identified from the surrounding slash pine/saw palmetto environment as having significant elevational change of from 30+ cm rise over 10 meters to elevations exceeding 2 meters over 25 meters. The elevation and subsequent drainage of the soil together with acidic and nutritionally poor conditions creates a unique environment and plant community that is distinctive enough to be reflected on aerial photographs or in pedestrian surveys. The plants are frequently referred to as "scrub," a dense, thick, generally low-growing tangle. The plant community is distinctive with 30 or more very characteristic plants found only in those environs.

Some of these characteristic plants are: sandhill live oak (*Quercus virginiana* var. *geminata*), myrtle oak (*Q. myrtifolia*), chapman's oak (*Q. chapmanii*), hog plum (*Ximenia americana*), various herbaceous perennials such as *Palafoxia feayi*, cat brier (*Smilax* spp.), sneezeweeds (*Heterotheca* spp.), gopher apple (*Licania mchauxii*), rosemary (*Ceratiola ericoides*), Lupine (*Lupinus* sp.), staggerbush and rusty lyonia

(*Lyonia fruticosa* and *L. ferruginea*), cactus (*Opuntia compressa*), buckwheats (*Polygonella* spp.), blazing stars (*Liatrus* spp.), pineland croton (*Croton linearis*), saint johns-wort (*Hypericum* sp.), spike moss (*Selaginella arenicola*), paw-paw (*Asimina pygmaea*), wire grass (*Aristida* spp.), airplants (*Tillandsia* spp.), pennyroyal mint (*Saturiga rigida*), and a host of seasonal annuals and composites. There are also many lichen formations (*Cladoniae*) characteristic of high xeric environments.

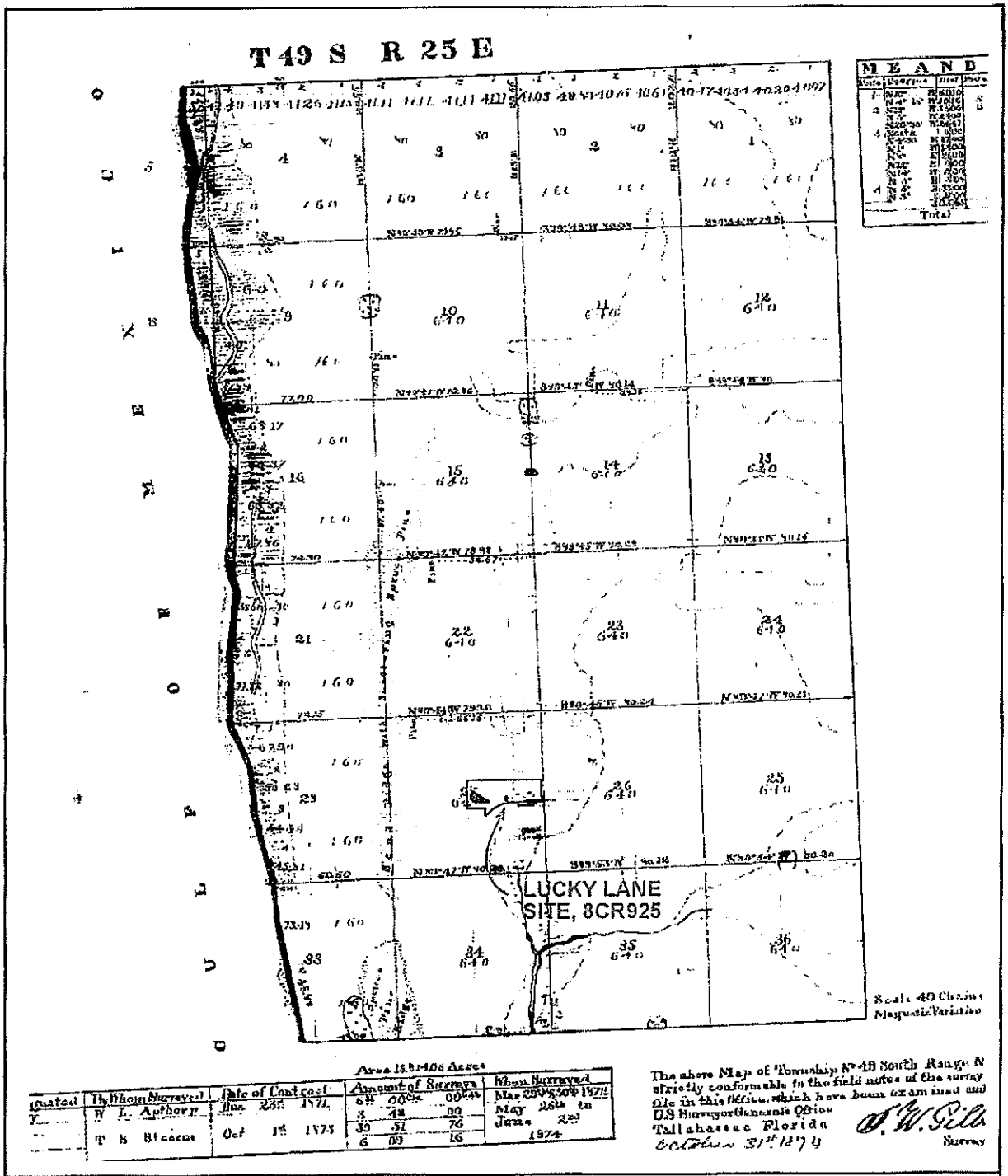

Figure 2. Portion of the 1874 plat map for Township 49S, Range 25E with modern parcel boundaries superimposed

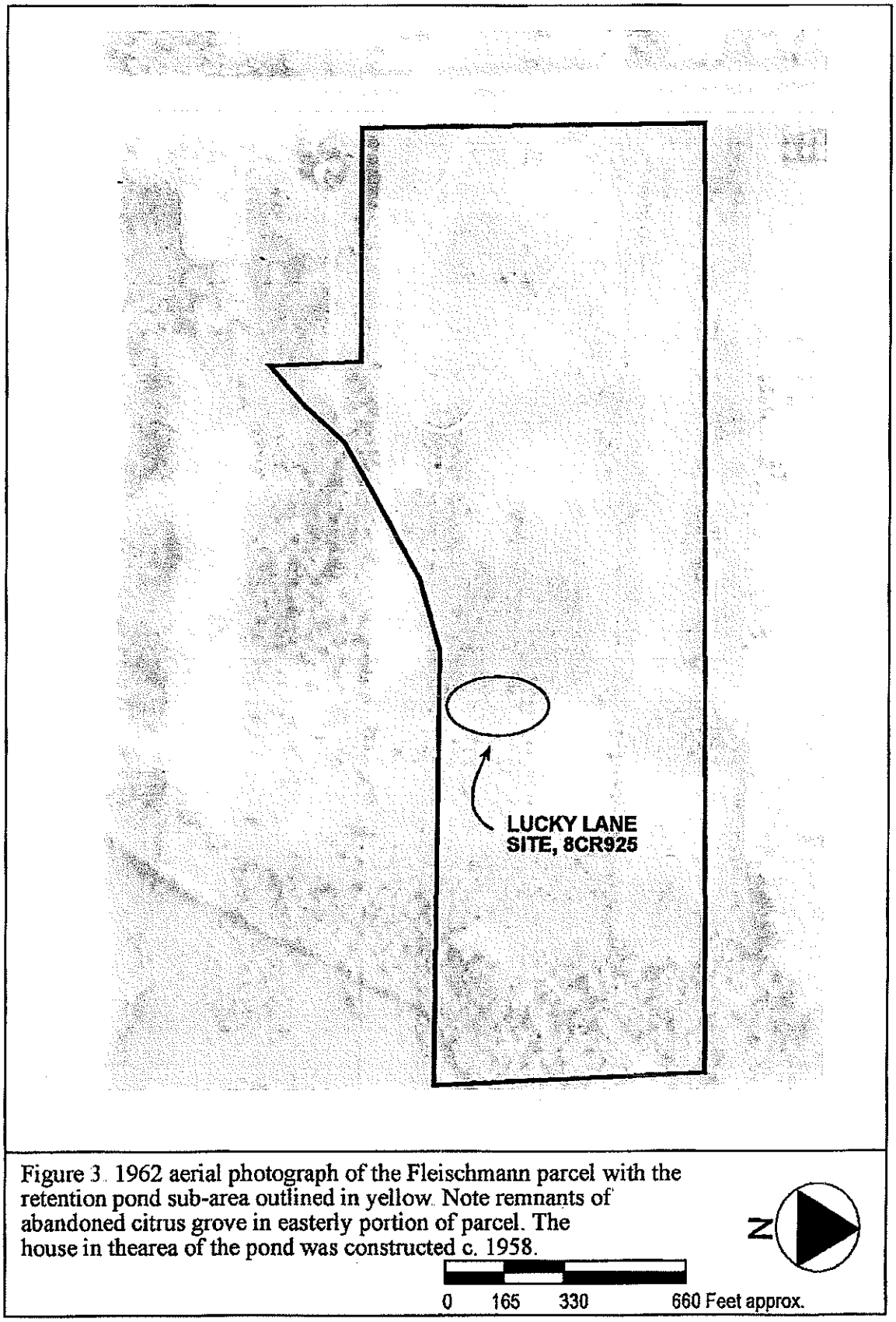

Figure 3. 1962 aerial photograph of the Fleischmann parcel with the retention pond sub-area outlined in yellow. Note remnants of abandoned citrus grove in easterly portion of parcel. The house in thearea of the pond was constructed c. 1958.

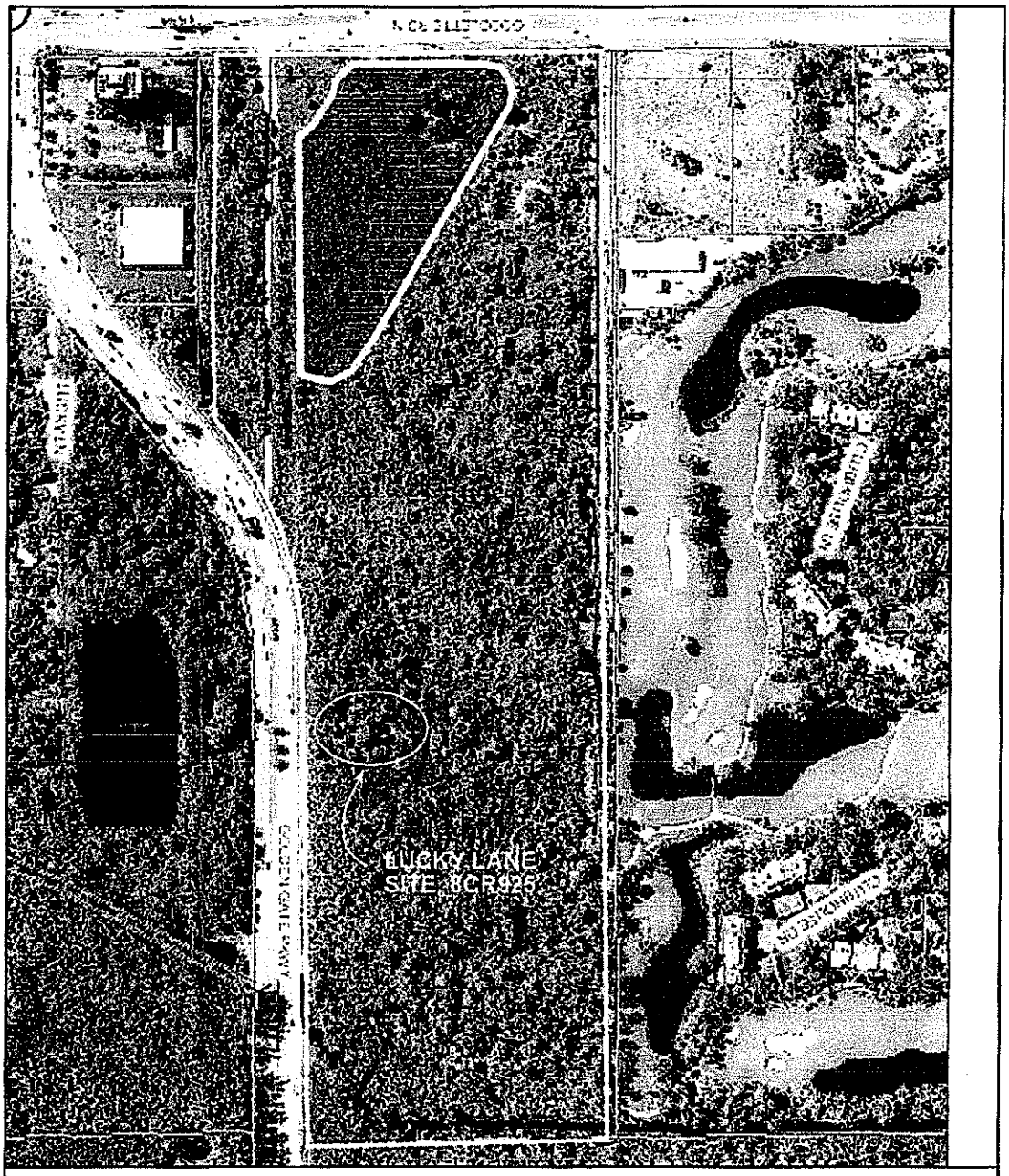

Figure 4. Aerial photograph of the Fleischmann parcel showing retention pond area in southwest corner of parcel

Photograph: Collier County Tax Appraiser website

Previous Research

Southwest Florida has been a focus of archaeological investigations since the 1880s, although much of the early work was directed toward the recovery of museum quality artifacts rather than understanding cultural processes. Griffin (1988:48-50) discussed some of the very early references to archaeological sites in South Florida. He noted that these early reports were mostly casual observations, and few appear to refer to southwest Florida, but rather refer to the southeast and Key West areas.

Kenworthy's (1883) informal report on shell mounds and ancient canals was one of the first reports on southwest Florida archaeological sites. At about the same time as Kenworthy's investigations, Simons (1884) gave a narrative account of some of the very large coastal shell middens, and Douglass (1885) provided further information about prehistoric canals (although he did not accept that they were prehistoric). One account described a canal near Gordon's Pass that is probably the Naples Canal (8CR59), and another further north may be the Pineland Canal. Douglass' diaries record excavations of a post-contact era site (8CR41) on Horrs Island, as evidenced by the presence of European artifacts (Griffin, 1988:50-51). Douglass visited Lostman's River and other areas in the Ten Thousand Island area including Horrs Island (1890).

In 1895 Durnford reported that cordage and other artifacts were recovered from a mangrove muck pond on Marco Island (8CR49). The material was shown to Cushing, who mounted a major project to recover more material from the site. Cushing (1897) reported recovering wood and other perishable artifacts from the muck pond on Marco Island, adjacent to a large shell works and midden village site. Publication of illustrations of the spectacular finds generated a great deal of subsequent interest. Wells M. Sawyer, a young artist accompanying the expedition, produced an excellent and presumably accurate contour map for the entire Key Marco Shell Midden. This map is valuable to present-day efforts in understanding many of the now obliterated features and interpreting (reconstructing) the "architecture" of the shell midden. Widmer (1983) notes that Cushing also focused attention on the nonagricultural chiefdom level of social organization supported by the rich estuary and marine resources, although his anthropological observations have remained overshadowed by the wealth of artifacts.

Moore (1900, 1905, 1907) investigated a number of sites along the Collier/Lee County coast, apparently attempting to find material comparable to Cushing's finds. Although Moore provided information about site locations and general contents, most of his work was extremely crude and uncontrolled, by both contemporary archaeological standards, and by modern standards.

The first attempt to systematically survey and investigate archaeological sites was initiated by Ales Hrdlička, who visited a number of sites along the coast and tidal mangrove estuaries in 1918, focusing on the Ten Thousand Island region (Hrdlička 1922). Hrdlička noted that southwest Florida was a distinct region within south Florida and made an attempt to type sites by function.

Matthew Stirling's (1931, 1933) excavation of a burial mound on Horrs Island represents one of the first controlled excavations in Collier/Lee Counties (although he attempted stratigraphic control, Cushing had little success in his wet site excavation). The site was named the Blue Hill Mound, but it is not recorded under that name in the FMSF (either as a primary or secondary name), so it is unclear exactly which site he excavated, although it was probably site 8CR41 (McMichaels, 1982). These reports by Stirling are preliminary, and apparently neither a final report nor a skeletal analysis has been published.

John M. Goggin was the first to define a south Florida cultural area (Glades Area), and describe south Florida ceramics (Glades ware), establishing a basis for later archaeological work. He published an analysis of the ceramic sequence in south Florida (Goggin, 1939, 1940). In later reports (Goggin, 1947, 1949a, 1949b), he formulated a basic framework of cultural areas and chronologies that is still current (although modifications with additional data have been made, see further discussion below). Goggin (1949b) summarized much of this information in an unpublished manuscript, which Griffin (1988) thoroughly described.

In passing, one unfortunate aspect of Goggin's work was a dependence on informant information for location of sites (especially interior sites) and he had a real concern that existing sites would be looted. This concern resulted in his either deliberately or incidentally reporting vague locational data for many sites. Some of these sites have never been satisfactorily relocated, although a few have undoubtedly been re-recorded by later investigators.

For several decades, much of the subsequent archaeological investigations in the region took place in Lee and Charlotte Counties, especially in the Cape Haze, Charlotte Harbor and Pine Island areas. It is rumored that Goggin had a "gentleman's agreement" with many of the other leading practicing Florida archaeologists of the time that the South Florida area was his exclusive province to investigate. If this rumor is correct, it might explain the neglect shown the southwest Florida area in the archaeological arena from the end of World War II to Goggin's death in 1964.

In 1956, Sears reported on a large village and mound complex at the mouth of Turner River on Chokoloskee Bay south of Marco Island, and in 1967 he reported on the results of a survey of the Cape Coral area (Sears, 1956, 1957). Laxson (1966) reported on excavations at Turner River Jungle Garden site, which is upriver from the Turner River site, although these have been confused in recent accounts

Van Beck and Van Beck (1965) excavated three small test pits on Marco Island (at the Marco midden, 8CR48) associated with the Cushing site (8CR49). The resulting publication of this work was some of the first reported scientific archaeological work to come from the southwest Florida area in nearly twenty years (Van Beck and Van Beck, 1965)

In 1967 through 1969, Marco Island was extensively surveyed and a few sites were tested through excavation by Cockrell, Morrell, and others (Morrell, 1969). No complete site

report was ever published, although an unpublished and incomplete manuscript is available. Some of these sites were discussed in Cockrell's master's thesis (1970). Widmer performed a survey of Big Key, John Stevens Creek, Barfield Bay, Blue Hill Bay, and Collier Bay, which are proximal to Marco Island (Widmer, 1974). Widmer eventually utilized his southwest coast experience to write a doctoral dissertation on the Calusa that not only remains the definitive work on that group, but also explored the relationship between subsistence adaptation and cultural evolution (Widmer, 1983).

In Lee County, Arlene Fradkin and other investigators from the University of Florida began an ongoing involvement with the Pine Island Sound/Sanibel Island area in the 1970s. Her first investigations were at the Wightman site on northern Sanibel Island (Fradkin, 1976).

Several archaeologists excavated at Horrs Island in the 1980s. McMichaels (1982) reviewed sites on Horrs Island in a Master's thesis. In 1983, Marquardt began a series of investigations at Josslyn Key, Useppa Island, Pineland, Buck Key, Galt Island in Lee County, and at Big Mound Key in Charlotte County (Marquardt, 1984, 1987, 1988, 1992). Marquardt and Russo have investigated Horrs Island in Collier County. A number of the large shell midden village sites they excavated appear to be late Archaic, and they expect to document a more elaborate social organization at these sites and larger sedentary or semi-sedentary population sizes than previously known for that period (Russo, 1990, and pers. comm.).

Most of these studies focused on the coastal sites, as have subsequent summaries and discussions. Recent work on the interior has made significant advances in documenting the extent and intensity of inland resources, especially in the Big Cypress and Everglades parks (Ehrenhard *et al*, 1978, 1979; Ehrenhard and Taylor 1980; Ehrenhard *et al*, 1980; Taylor and Komara 1983; Taylor, 1984, 1985). Griffin's (1988) synthesis of the Everglades Park data is the defining work on south Florida archaeology to date. Athens (1983) summarized some of the results of the Big Cypress survey, but more analysis of this data resource is needed.

Beriault and colleagues (1981) reported on salvage excavations at Bay West Nursery (8CR200). Their description of the site includes a well known but rare and infrequently documented Early and Middle Archaic use of ponds for cemeteries.

In 1995, Widmer and Story began an ongoing investigation at the Key Marco Midden (Widmer, 1996). In the first season they excavated with the help of graduate students and volunteers. The results of their work have appeared in the *Florida Anthropologist*.

In the last two decades the pressure of development as well as a recognized need for preservation or mitigation of prehistoric sites has led to a number of reports by commercial cultural resource management consultants. While most of these reports are limited in scope due to restriction to a small tract of land, many have produced useful summaries of regional archaeological, as well as insightful analysis of the relationship between site types and location and ecotypes (Almy and Deming 1982, 1986a, 1986b,

1986c, 1987, Austin 1987, Carr and Allerton 1988a, 1988b, Deming and Almy 1987, 1988, Fay and Carr 1990, Fuhrmeister et al. 1990, Martinez 1977, Miller and Fryman 1978, Swift and Carr 1989).

Arthur W. Lee, John Beriault and others in the Southwest Florida Archaeological Society (SWFAS) have recorded and investigated a large number of archaeological sites in Collier and Lee Counties. It is an ongoing effort of the Society to publish and disseminate reports and manuscripts (Lee et al. 1993, 1997, 1998, Beriault 1973, 1982, 1986, 1987, Beriault and Strader, 1984). Many of these reports deal with small interior seasonal sites. In addition, Beriault has provided several unpublished manuscripts as to site types and areas (Beriault 1972, 1987).

A site search with the Florida Division of Historic Resources indicated that there are two archaeological sites previously recorded for Section 27. These are 8CR92 and 8CR477 and are characterized as scatters of shell refuse with the presence of some sand-tempered plain ceramics in the case of 8CR92 situated on xeric areas to the west of the subject parcel.

In July 2005, AHC performed a Phase one archaeological investigation at the Fleischmann parcel (Beriault 2005). This testing resulted in the discovery of one archaeological site, the Lucky Lane Site (8CR925), which is characterized as a shell scatter in the southeastern portion of the parcel. A total of seventeen 50-cm square shovel tests were excavated at 25-foot intervals to delineate the site boundaries. A total of twelve pin flags were placed around the site's boundaries.

Cultural Summary

Stirling was the first to distinguish the indigenous prehistoric cultures of southern Florida in 1936 by defining a Glades cultural area, including all of south Florida (Carr *et al*., 1994b:9; Milanich, 1994:5-6). Griffin (1988) pointed out that this was not formulated as a strict cultural area, but it was rather a geographic region with some common cultural traits. Kroeber (1939), in a review of North American prehistory, utilized a slightly different term, the "South Florida Area," basing his definition on both environmental and cultural factors. Subsequently Goggin delineated more particular boundaries for southern Florida and divided the region into three sub-areas: "Okeechobee" around Lake Okeechobee, "Tekesta" for southeast Florida and the Florida Keys, and "Calusa" for Southwest Florida (Carr *et al*., 1994b:10; Goggin, 1947:114-127).

Following Goggin's study, subsequent researchers have refined or altered the cultural distinctions attributed to southern Florida's prehistoric populations. There has been criticism that Goggin's names and definitions were based on historic accounts of the main (proto) historic groups found in the respective regions and not on the archaeological evidence of spatial, temporal, and cultural differences (Sears, 1966; Griffin, 1974; Carr and Beriault, 1984; Griffin, 1988). Griffin, in particular, questioned the distinctions. He believed that South Florida cultures varied only by local environmental conditions and ceramic exchange rates. Griffin believed the inhabitants of prehistoric southern Florida were mainly dwelling on the coast and that the interior was nearly uninhabited and under-utilized. Griffin designated the entire southern Florida region as the "Circum-Glades" area (Eck, 1997:5; Griffin, 1974:342-346). This new designation for the area was furthered by a widely circulated book on Florida archaeology by Milanich and Fairbanks (1980). Griffin later (1988) retreated to some extent from his earlier position as further research (particularly by Ehrenhard, Carr, Komara, and Taylor in the Big Cypress and Carr in the eastern Everglades in the 1970s and 1980s) showed abundant sites (and concomitant use and habitation) in the interior and Everglades.

Carr and Beriault, in particular, have taken issue with the concept of a Circum-Glades region. Carr's research in the Big Cypress and Everglades and his subsequent analysis demonstrating variation of key cultural markers (particularly in decorated ceramics) formed the basis for this contention. There is abundant evidence for cultural (and probably political or tribal) diversity in the various areas of south Florida. Carr and Beriault particularly noted and defined differences between the lower southwest Florida coast, which they termed the "Ten Thousand Island" region, and the area to the north, which they called the "Caloosahatchee" region. This latter area they believed to be the seat of the historic Calusa chiefdomship, although previous (and some subsequent) researchers have called the entire southwest Florida from Cape Sable to the Cape Haze peninsula (and beyond) in Charlotte County "Calusa."

Griffin, in his definitive 1988 synthesis on Everglades archaeology, attempted to reconcile and refine some of the conflict in the definition of south Florida prehistoric and historic culture areas. As stated by Carr and colleagues (1994b), "the issue...appears in part to be one of trying to determine the significance of regional and temporal variation, rather than whether these differences are real." There is evidence that changes through

time in regional political affiliations or realties makes any model *not* addressing this complex issue two-dimensional. The Calusa hegemony that was in place by the time of the arrival of Europeans may have begun as early as 800 AD in the Ten Thousand Island "district" or area (Griffin, 1988:321; Carr *et al.*, 1994b:12). There is currently ongoing research to further refine present thought as to cultural affiliations in south Florida. It would seem only a matter of time before new directions and emphases provide a more accurate summation of south Florida cultural affinities.

Using the present models, the coastal zones of Collier County and southern Lee County contain three distinct culture areas. Indian Hill on Marco Island lies thirty miles from the projected interface by Carr and Beriault (1984) of the Caloosahatchee area (called the "the 'heartland' of the Calusa," Carr *et al.*, 1994b:12) to the north, and the Ten Thousand Islands area to the south. At a yet undefined point to the east lies the Okeechobee cultural area, but the boundary, if it is a definite, fixed one, is likely to occur in the vicinity of the Immokalee rise forty miles or more to the northeast of Indian Hill. Further work is in progress by Carr to address the issue of where the southwest boundaries of the Okeechobee culture area occur.

Temporal Periods and Adaptations

At the same time that the south Florida archaeological cultural models have evolved over the past 60-plus years, so have the temporal markers or framework on which we base evolution of that culture. Much of this latter effort has resulted from comparisons made between the recovered artifacts from the 100-year period of scientific and *non*scientific excavation and collection by the various individuals and institutions (and others) enumerated in part above. This Floridian effort must be seen against the broader background of archaeological work in eastern North America and the New World as a whole. All of these efforts have been mutually complimentary and certainly not exclusive.

In south Florida, the following periods and adaptations are generally accepted. Part of this chronology involving the later or Formative period is called the Glades sequence in honor of Goggin, the greater part of whose work in defining the ceramic sequence or markers has withstood the test of time and subsequent criticism (Goggin, 1939, 1947, 1949c). From Goggin's day to present, pottery variability in form, substance, and decoration has proven useful for providing time markers, at least during the archaeologically-brief (± 3500 year) period spanning the late Archaic and Formative periods that it was produced. Other artifact types and their variations have, to present, proven somewhat less reliable as absolute indicants of prehistoric age. Radiocarbon dating, a phenomena of the last 30-plus years, provides, within the standard deviation expressed in plus-or-minus years BP (before present), a relatively absolute date for a given sample and provides a yardstick to measure traits or distinctions in provenienced artifacts. Determining and adequately defining what traits we can discern against this absolute is part of the ongoing function of the regional archaeological effort.

The following information is generalized and abbreviated. The dates are approximate; transitions between periods are in reality more gradual that the manner they are expressed for convenience.

Paleo Period (14,000 - 8,500 BP)

During the Paleo Period, the first Native Americans began moving into the southeastern portion of North America and Florida. Most evidence of their presence in Florida can be reliably dated to about 10,000 BP.

There are no known Paleoindian sites in Collier County. Several are documented from elsewhere in south Florida, including Warm Mineral Springs and Little Salt Springs in Sarasota County (Cockrell and Murphy, 1978; Clausen and Gifford, 1975), Harney Flats in Hillsborough County (Daniel and Wisenbaker, 1987) and the Cutler Fossil Site in Dade County (Carr, 1986).

During this period, the terminal Wisconsian ice age, the climate was probably less extreme, with cooler summers and warmer winters. The climate was also drier, and sea levels were lower (Carbone, 1983; Allerton and Carr 1988a; Griffin, 1988).

One reason that possible Paleo period sites have not been discovered in Collier and Lee Counties is that the shoreline may have been as much as 100 miles further west due to lower sea levels. Drier conditions may have made the interior very inhospitable, and the shallow estuarine and littoral sites that existed were flooded by post-ice age Holocene sea rises.

Any possible interior sites from the Paleo Period may be unrecognizable due to lack of diagnostic artifacts, subsequent reuse of site areas, low population density, and few permanent camps. These and other factors may help explain the absence to date of identifiable Paleo period sites in Collier and Lee Counties. On the other hand, the southwest Florida coast south of Charlotte Harbor may have been uninhabitable during this period due to an absence of key conditions for the successful hunting of large game, a trait of the Paleo period.

Archaic Period (8,500 - 2,500 BP)

The Archaic period reflects a post-Pleistocene shift in adaptation marked by an increase in the seasonal exploitation of a broad spectrum of food resources, a more restricted use of territory due to regional specialization, and more semi-sedentary habitation sites. No ceramics are known until the Late Archaic. During the Archaic, regional specializations became more marked, not only with material culture but also with distinct local utilization of local plant and animal resources.

As mentioned above, there is, as yet, no firm evidence of human presence in southwest Florida during the Paleo period. This apparently is also true for the Early Archaic (8500-7000BP), as there is evidence of an environment too arid to support scrub oak, and the presence of shifting wind formed dunes (Watts, 1975; Widmer, 1983). No early Archaic sites are known from southwest Florida (Allerton and Carr, 1988:14).

By about 6500 BP mesic conditions began to spread, although localized xeric conditions continued (and still exist in some areas) through south Florida. Middle Archaic sites dating from this time are rare, although the Bay West Nursery site (8CR200) in Collier County and the Ryder Pond site (8LL1850) in Lee County near Bonita Springs provide evidence of occupation, as do several sites in southeast Florida. The Bay West site is a Middle Archaic cypress pond cemetery, associated with a lithic scatter. The Ryder Pond site is a similar mortuary pond site surrounded by pine flatwoods (Carr and Heinz, 1996). Beriault has also recorded several aceramic shell scatters in coastal sand hills (paleo dunes), some of which may date to the Middle Archaic. Griffin (1988) summarizes evidence indicating that despite the rise of available surface water, brackish estuaries and other major modern landscape features had not formed, and population (or repopulation) was still sparse.

During the Archaic period sea levels began to rise at a fairly rapid rate, estimated at 8.3 cm. per 100 years 6000-3000 BP, and 3.5 cm per 100 years afterwards (Scholl *et al.*, 1969), although whether sea levels were steadily rising or oscillating is still unclear (see Griffin 1988; Allerton and Carr, 1990 for recent reviews of the literature). Data is somewhat difficult to sort out as sea level rise was accompanied by both shore regression and transgression in places. As conditions became wetter (and warmer) in the interior, cypress swamps and hardwood sub-tropical forests established themselves by about 5000 BP (Carbone 1983, Delcourt and Delcourt 1981).

By late Middle or early Late Archaic times (4000 years BP) there were significant shell mounds and middens on Horrs Island, Marco Island, and elsewhere in the coastal regions, suggesting that the estuary system had been established and was being utilized to provide the subsistence basis for denser populations and semi-sedentary settlements (Morrell, 1969; Cockrell, 1970). At Useppa Island in Lee County, excavations have provided radiocarbon dates from pre-ceramic shell middens ranging between roughly 4900 BP and 5600 BP, suggesting that the Middle Archaic as well as Late Archaic periods saw a growing dependence on shellfish resources (Milanich *et al.*, 1984). There are aceramic coastal sand hill and interior wetland sites as well, but these have not been demonstrated to be Archaic despite some investigators equating aceramic with preceramic. Radiocarbon dates for these sites would clarify this point.

Allerton and Carr (1988) noted that a number of stratified sites in the wet mangrove and marsh areas of the Everglades, as well as on Horrs Island, contain Archaic preceramic horizons, although it is unclear if aceramic was equated with preceramic. Additional supporting evidence of interior use by Archaic peoples will provide a new dimension to the archaeological understanding of Archaic resource utilization. Allerton and Carr point out that if the wet tree islands were initially used by Archaic people, then at least some of the hardwood hammocks in swamp environments were raised in elevation (with subsequent changes in vegetation) due to human activities. Post-Archaic people extensively utilized these hammocks and continued to advance their development as distinct geomorphic features. This is obviously an area where additional archaeological investigations have a potential to contribute to understanding the interaction of geomorphic and cultural evolution in southwest Florida.

Toward the end of the Archaic there was the introduction of fiber-tempered pottery into the archaeological record, often used as a marker of the Orange Phase, commencing at about 4000 BP, either coincident with or soon after the development of the extensive shell middens. The Late Archaic Orange Phase subsistence strategy is characterized by intensive use of shellfish and marine resources, as well as being marked by an accelerated trend toward regional specializations.

A number of the large shell middens on Marco Island (Cockrell, 1970), Horrs Island (Russo n.d.), Cape Haze (Bullen and Bullen, 1956), and elsewhere date from this period or earlier, as they contain fiber-tempered ceramics, although there are known aceramic (preceramic?) levels below the Orange Phase deposits that may date to the Middle Archaic. These shell middens are usually capped by deposits from later occupations as well.

Formative Stage or Glades Periods (2500 BP - 500 BP)

The Formative or Glades adaptation, based on hunting, fishing, and the harvesting of shellfish and plants, was similar to the Archaic, but was characterized by increasing specializations in gathering strategies and tool-making. Earlier writers have typed this hunter-gatherer society as primitive or "low-level" (Kroeber, 1939). However, there is certainly evidence from the specialization of tools, from the beautifully-executed wood carvings from Key Marco in Collier County and those from Fort Center near Lake Okeechobee (Cushing, 1897; Sears, 1982), and from the historic accounts of the Calusa hegemony, that the south Florida area had an advanced culture that Goggin (1964) has called a "stratified non-agrarian society."

The preceding Late Archaic late Orange phase (also known as the transitional phase) was marked by changes in pottery, and terminated with the relatively rapid replacement of fiber-tempered pottery with sand-tempered, limestone-tempered, and chalky "temperless" pottery. It was also characterized by changes in ceramic style and often by reduction in the size of stone projectile points.

The Formative Stage (beginning about 2500 BP) is divided in south Florida into the Glades Periods sequence. Subsistence adaptation is marked by a narrowing spectrum of resource use, as well as continued trends toward regional diversity and ecological specializations, marked in part by the proliferation of inland resource extraction encampments.

Formative Period cultural evolution eventually led to increased political sophistication, perhaps initially of modest dimensions, but culminating in broad regional political alliances and regulation of materials and goods (*i.e.* resources) between the coast and inland areas (Milanich and Fairbanks, 1980). By protohistoric and contact times the Calusa were the dominant tribal group, gaining broad political influence and at least partial control over much of south Florida as far north as central Brevard County. Historically, the main Calusa village has been regarded as "Calos" on Mound Key in

Estero Bay in Lee County, although 50 to 70 large villages were under direct Calusa control by contact times (Griffin, 1988).

During the Formative Periods, village sites grew to the proportions of large multi-use complexes, particularly along the coast and barrier islands of southwest Florida. Some of the projected intra-site functions of the elements of these complex shellworks were as temples, canals, causeways, temple and platform mounds, courtyards and watercourts. Current research involving the excavating of large contiguous areas of these shell mound complexes is beginning to establish demonstrable uses for the features of these large sites, upon which heretofore were merely speculated (Widmer, 1996).

Tidal estuary rivers and inland hammocks along deep water sloughs, marshes, and permanent ponds were seasonally visited for extraction of natural resources, and are now marked by small to relatively large black dirt middens, some of which may have been semi-permanent hamlets. The pine and cypress flatwoods appear to have supported few sites, although areas around Lake Trafford and other rich interior areas developed substantial sites, including sand mounds, and may be more similar to the Okeechobee cultural area than to the coastal cultures.

In 1992, Dickel and Carr excavated a Deptford Period burial mound (the Oak Knoll Site) in the Bonita Bay Tract north of the Imperial River. Exotic trade items and seventy or more human burials were among the material findings. The resulting conclusions and subsequent surveying and testing of the Bonita Bay Shell works (8LL717) suggest social stratification and complexity may extend further back into the past than the Formative period (Dickel and Carr, 1992).

Coastal sites (shell middens) reflect a predominate dependence on fish and shellfish, wild plant foods and products, and larger inland game. The inland sites show a greater reliance on interior resources, including large, medium and small mammals, turtle, small freshwater fish, alligator, snake, frogs, and, sometimes, freshwater shellfish. Interior and coastal resource exchange can be documented by the consistent finds of moderate amounts of marine shell in many interior middens, as well as interior resources in coastal middens.

The Formative Stage (with a nod to Goggin) has been often termed the Glades cultural tradition. Much of this "tradition" is focused on decorated ceramics, the minority in the archaeological record, although the majority of recovered (rim) sherds are plainware. However, despite this, pottery (and its decorations) is usually utilized as the major temporal marker(s) for fitting sites into a temporal framework. Changes in pottery do not represent mere changes in artistic motifs, but reflect inter- and intra-regional trade contacts and outside cultural influences (possibly through exogamy, shifting of populations, and even the through evolution of a culture through time). Whatever the influences, the Glades tradition is continuous from post-Archaic times to contact times.

Despite the fact that exogamy is likely to have been practiced, traders or other specialists probably moved between major cultural areas in small numbers, and genetic flow probably accompanied cultural exchange, although perhaps not on the same scale. This

may have increased in later times due to use of traditional obligations of kinship and intermarriage to stabilize alliances that were not codified into a formal legal system.

The following table has been modified from several sources, but it is predominantly based on Milanich and Fairbanks (1980), Griffin (1988), and Allerton and Carr (1990). Dates have been rounded somewhat and translated to Before Present (BP). There are some differences of opinion in the dates, particularly about the timing of the Glades Ia and Ib division.

TABLE 1: GLADES CULTURAL SEQUENCE

Glades Ia (2500 BP - 1500 BP)	First appearance of sand tempered plain pottery, but little else to mark a difference and the preceding Late Archaic. Sand tempered plain remains a predominate type throughout the Glades sequence.
Glades Ib (1500 BP - 1250 BP)	First appearance of decorated sand-tempered ceramic (Ft. Drum Incised, Ft. Drum Punctated, Cane Patch Incised, Turner River Punctate), plainware common. Pottery rim grooving and incision decorations become widespread.
Glades IIa (1250 BP - 1100 BP)	First appearance of Key Largo Incised, Sanibel Incised, Miami Incised, and plainware is common. Distinction between ceramics of southeast and southwest Florida becomes apparent. Ten Thousand Island area distinct from Caloosahatchee area. First mound construction- increased social stratification? Population size may have approximated that at contact.
Glades IIb (1100 - 1000 BP)	First appearance of Matecumbe Incised; Key Largo Incised common on east coast, Gordon's Pass Incised common on the west, and plainware common throughout.
Glades IIc (1000 BP - 800 BP)	First appearance of Plantation Pinched, but few decorated wares with a preponderance of plainware (there is some evidence of population reduction- perhaps due to a cataclysmic event). Non-local pottery (*e.g.* St. Johns Plain and Check Stamped, Belle Glade Plain) appears.
Glades IIIa (800 - 600 BP)	First appearance of Surfside Incised, increasing quantities of St. Johns pottery (especially on East Coast), and Belle Glade pottery.

Glades IIIb (600 BP - 500 BP)	Glades Tooled rims appear (rare on West Coast), zoned punctate designs, but general decline in incised decoration. Belle Glade ceramics common on west coast. St. Johns ware present but rare on West Coast, common on East Coast.
Glades IIIc (500 BP - 300 BP)	Continuation of IIIb ceramics, with pronounced flaring of rims and embossing on Glades Tooled ceramics. Mound burial construction less common with intrusive burials into existing mounds, appearance of European goods, plainware common.

By European contact times (the first half of the 16th century), the southwest coast of Florida was maintaining a vigorous, possibly expanding political chiefdom with a broad network of alliances, as well as a rich and ancient cultural tradition without an agricultural base. However, direct conflict with Europeans and, more importantly, exposure to European diseases led to the rapid decline of the Calusa. By the mid 1700s their numbers had greatly diminished. The remnants of this once-powerful tribe may have left south Florida in the 1760s with the Spanish for relocation in Cuba. Others may have become indistinguishable from Spanish Cuban fishermen who worked the great fishing "ranchos" in the Pine Island Sound region catching and salting fish for export to Cuba. Other groups of Native Americans may have fused with the Creek-derived Seminoles.

In the late 1700s, members of the Creek tribe were forced into Florida from Georgia and Alabama. They were later called Seminoles, from the Spanish term "cimmarones." Pressures from colonial (and later) white encroachment on their traditional territories forced them into the Big Cypress and Everglades area by the 1830s. By this time, most of the cultural identity of pre-contact times had been lost, although some of the Calusa subsistence strategies may have been partly adopted by Seminoles. A number of Seminole period sites have been documented on earlier Glades middens. This coincidence may in part reflect the paucity of high land in the interior (Ehrenhard *et al.*, 1978, 1979, 1980; Ehrenhard and Taylor, 1980; Taylor and Komara, 1983; Taylor, 1984, 1985). Older midden sites (particularly those called "black dirt" middens) can be rich agriculturally as well as archaeologically, making these foci for historic Seminole gardens and fruit groves.

Seminole periods in south Florida are divided into I (1820-1860), II (1860-1900) and III (1900-1940) (Ehrenhard *et al.*, 1978). Post-1940 Seminole camps are designated "Late Seminole" in some reports. These designations reflect the different stages of Seminole migration into south Florida, Seminole displacement and active conflict with the expanding American culture, and the eventual refuge by Seminole remnants in Big Cypress and Everglades regions. Military records, and, in particular, several sketch maps by military personnel done in the 1830s and 1840s and the Ives military map of South Florida (1856) shows evidence of investigations at and near "Malco Inlet," "Casimba," "Good Land," and "Cape Romans."

Seminole Wars in the Southwest Florida Area

The advent of the Second and Third Seminole Wars (1834-38, 1855-58) disrupted the peaceful settlement of the Southwest Florida region. There were a number of forts, "temporary" and permanent, established along the Caloosahatchee River during this time. Fort Dulaney was established at Punta Rassa near the mouth of the Caloosahatchee in 1837 and was occupied intermittently through 1841, and again in 1855. After a hurricane destroyed Ft. Dulaney in 1841, Fort Harvie was established upriver. The name of this fort was changed in 1850 by its commander General Twiggs to honor his new son-in-law, Col. Abraham Myers. Fort Myers was thus created, and became the chief fort of the region.

From this central administrative point, a line of forts was established up the Caloosahatchee River. They were: Fort Denaud, Fort Adams, Fort Thompson, and Fort Center on Fisheating Creek leading into Lake Okeechobee. Other forts and "temporary depots" were established south into the Big Cypress Swamp such as Fort Simon Drum, Temporary Depot Number One, Fort Doane, Fort Simmons, Fort Keis, Fort Foster, Fort Shackleford, and others.

A number of military expeditions were sent south along the coast during the Second and Third Seminole Wars with the objectives of interdicting trade in guns and ammunition between the Seminoles and the Spanish-Cuban fishing community, and hunting and capturing Indians. General Thomas Lawson, who had just been appointed Surgeon General of the United States, commanded one of the early notable expeditions. Lawson's expedition left Fort Harvie (Fort Myers) in February 1838. Elements of Lawson's command explored the area in and around the Caxambas Point area, discovering two abandoned Indian villages in the Blackwater River/Palm Bay area. Other expeditions bivouacked at Cape Romano and Caxambas Point. Colonel Rogers, of the ill-fated Parkhill expedition, wrote several dispatches from Cape Romano in the Caxambas area in 1858, describing the ambush of Captain Parkhill's party at the headwaters of Turner River. The Collier County Museum is the repository for a collection of military artifacts purportedly found by a local collector near Indian Hill in the early 1960s. This material may have originated with one of the various military expeditions stopping at Caxambas Point.

Hole In the Wall Swamp History

The Hole-In-The-Wall Swamp area has been the backdrop for a significant part of the earliest modern history for the Naples area. Much of this history is tied to that of a single family, the Franks, who established residences, farming and ranching activities in the area immediately north of the subject parcel by the 1930s. Eddie Frank Sr., was a successful operator of the first auto repair shop in Naples, ran one of the first hardware stores, was the purported inventor of the Swamp Buggy, an early homemade all-terrain vehicle used for hunting and traversing the back country in South Florida. Mr. Frank and several of his sons lived near the Hole-In-The-Wall Swamp, developing part of the area as two golf courses and golf-course communities by the 1970s. Other families living near

the subject parcel were the Smiths and Thurners, both of whom farmed in the general area. One quarter mile to the south of the parcel is an historic garden of introduced tropical plants begun in the early 1900s by botanist Henry Nehrling and expanded in later years by its then-owner, Julius "Junky' Fleischman under the name Caribbean Gardens.

Methodology

Prior to conducting fieldwork in the project parcel, relevant archives and literature were reviewed. This included, but was not limited to, studying previous archaeological reports for sites in Collier County, reviewing information from the Master Site File in Tallahassee concerning nearby sites, and examining USGS maps of the project area. Also, black and white and color aerial photographs from the project area, which could aid in revealing anthropogenic changes to the topography and floral communities, were interpreted.

Research Design

The Phase I assessment resulted in the discovery of the Lucky Lane Site (8CR925). The Phase II archaeological assessment of the Lucky Lane Site was conducted to assess the extent and significance of this site. The investigations included the excavation of shovel tests across the site in order to collect material for analysis, more precisely determine site boundaries, site chronology, and preservation quality.

Fieldwork

The Phase II assessment included 160 systematic shovel tests at 5 and 10 meter intervals on the cardinal points centering on a datum near ST-10 which was given an arbitrary 100N, 100E designation. All north-south, east-west transect lines of shovel tests were extended until the second negative test was encountered. Additionally, a north transect of shovel tests was extended 50 meters north of the datum. A series of four shovel tests were placed 50 meters northeast of the site in a cluster of several cabbage palms on marginally higher ground.

All shovel tests were dug averaging one meter (100 cm) depth or until sterile sediments were encountered across the site. All excavated material was sifted through a 1/4" diameter mesh screening and any material of archaeological significance collected and placed in self-sealing plastic bags. Additionally, a one-meter-square unit was excavated in the southeastern quadrant of the site (datum in SW corner of unit at: 90N, 122E). This unit was dug to sterile sediments at a depth of 50cm.

Collections

Eighty-three field specimen bags (FS-10 through 93) of archaeological material were recovered and sent to the AHC laboratory at Davie for cleaning, conservation, and analysis (see Appendix 2).

Informants

In December 2006, Robert S. Carr interviewed Larry Luckey whose family lived in the 1960s immediately south of the site area on Lucky Lane.

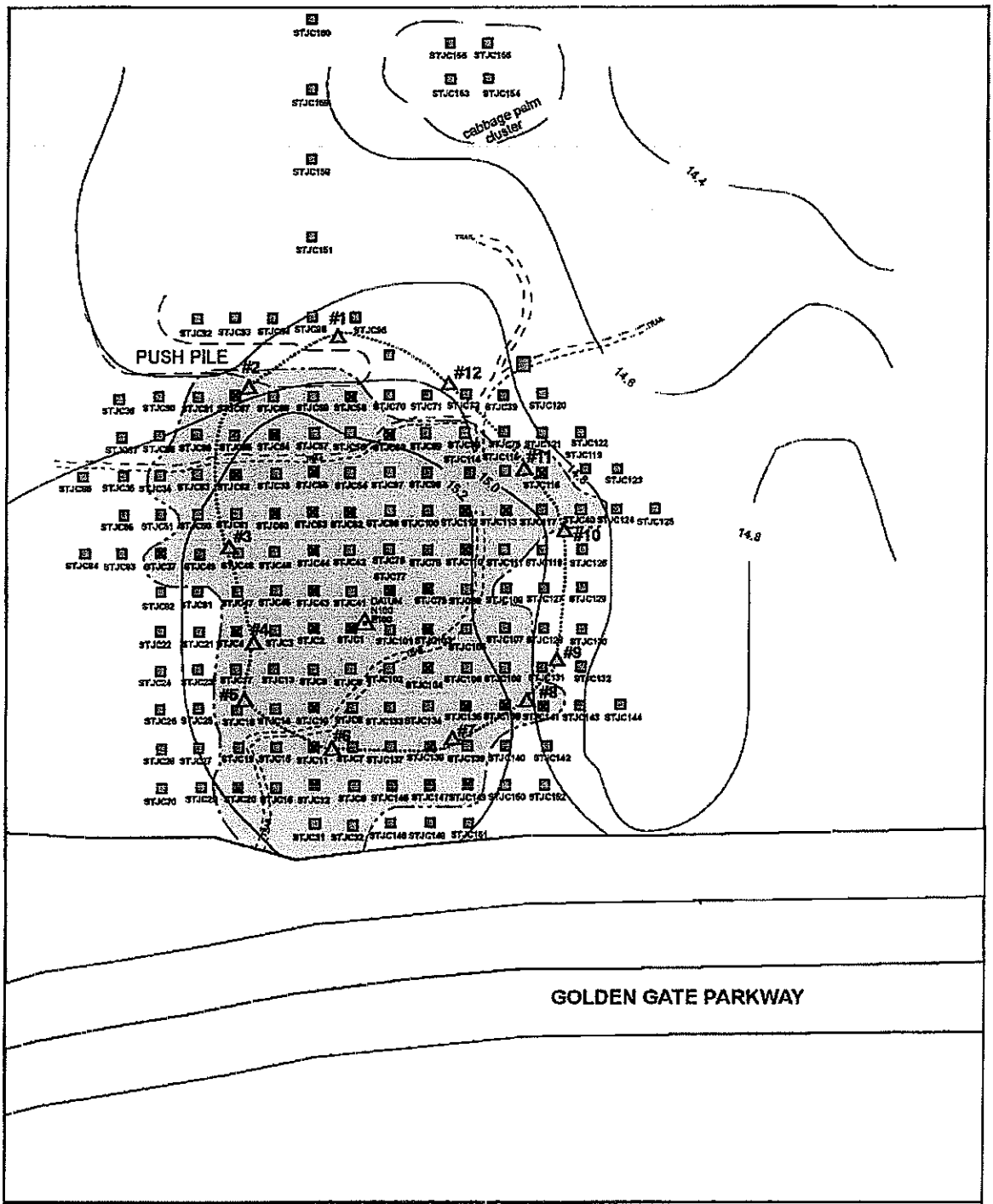

Figure 5. Map of the Lucky Lane Site (8CR925), showing location of shovel tests.

Site Summary

Site Name:	Lucky Lane Site
State Site Number:	8CR925
Environmental Setting:	Pine hill scrub / slash pine flatwoods west of a slough-creek
Location:	Township 49S, Range 25E, Section 27
Site Type:	Shell and artifact scatter
Site Function:	Habitation / resource extraction
Description:	The site is a diffuse shell and artifact scatter of shallow deposition with cultural material located no deeper than 20 inches below the surface. Thirty-one shovel tests yielded sand-tempered plain ceramics, indicating that the site dates to the Formative Period and had multiple overlapping occupations. The site measures approximately 60 meters (180 feet) north-south and 40 meters (120 feet) east-west (or 2400 square meters) and is roughly ovoid. Shell species observed included fighting conch, lightning whelk, clam , and oyster. The site lies 160 meters (500 feet) to the west of the headwater/slough of the Gordon River and occupies the highest ground closest to the slough. This site may have been a short-term camp or food-processing site covered by downy rose myrtle, saw palmetto, cabbage palm and live oak.
Chronology:	Prehistoric: Formative Period
Collections:	Shell refuse and sand-tempered ceramics (FS 10 – 93)
Previous Research:	Beriault, 2005
Preservation Quality:	Poor: According to a 1962 aerial photograph (Figure 3) a citrus grove and vegetable field was located on top of the site, resulting in disturbances to the entire site area.
Ownership:	Public: Collier County
Significance:	Site is of local significance but is not eligible for listing on the National Register of Historic Places due to degree of disturbance by modern farming activity.

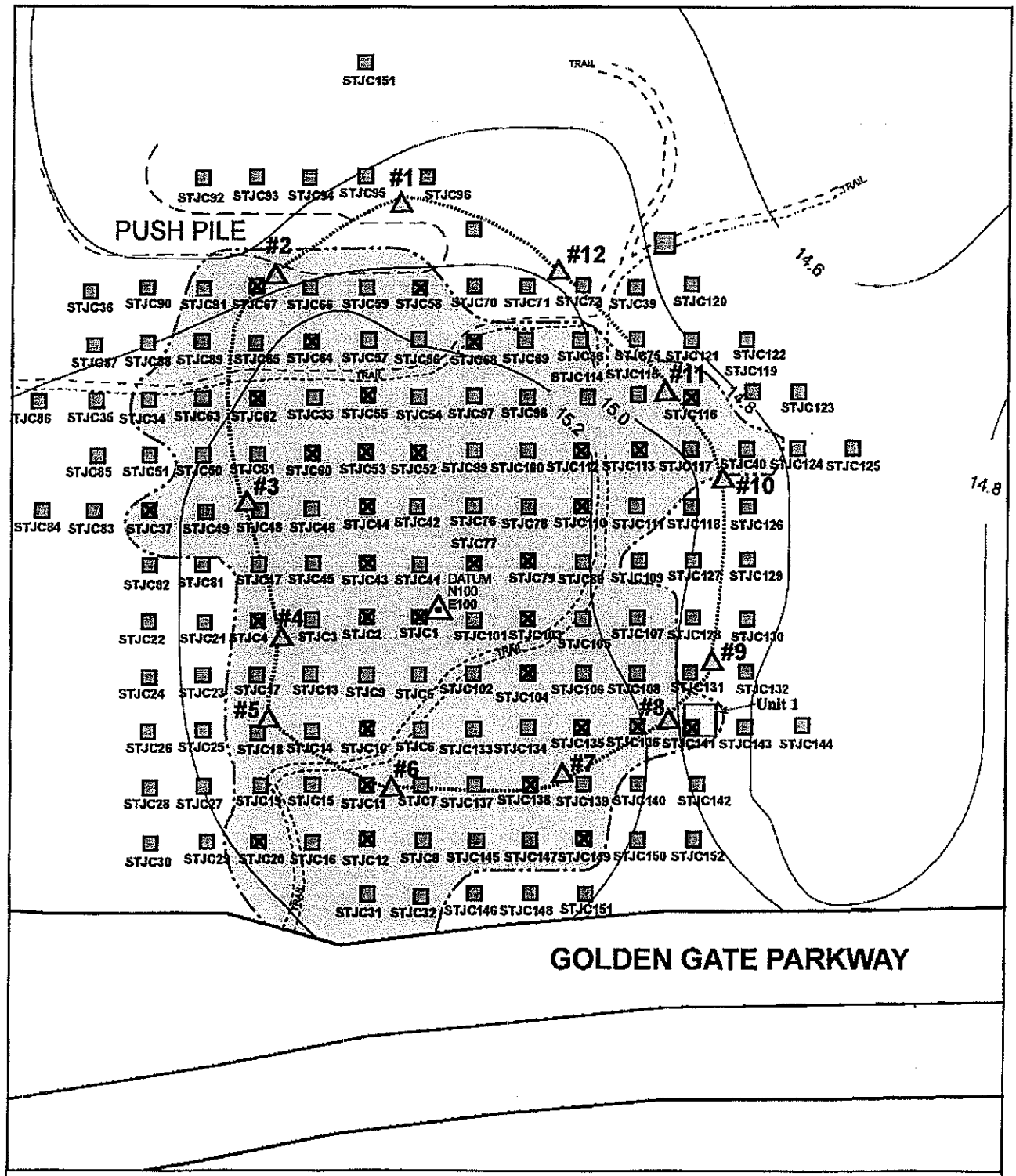

Figure 6. Map of the Lucky Lane Site (8CR925) showing location of Phase II shovel tests and relative elevations.

= POSITIVE SHOVEL TEST

= NEGATIVE SHOVEL TEST

= SHOVEL TEST WITH CERAMICS

= PHASE II ESTABLISHED SITE BOUNDARIES

CONTOURS IN ESTIMATED FOOT ELEVATIONS

△#1 = PIN FLAGGED SITE BOUNDARY POINT ESTABLISHED DURING PHASE ONE TESTING

= TEST UNIT



Figure 7. View east at the Lucky Lane Site, 8CR925



Figure 8. View north at Test Unit 1 on the Lucky Lane Site, 8CR925

Results and Conclusions

This Phase II assessment of the Lucky Lane Site (8CR925) resulted in the investigation of all parts of the site. One hundred sixty shovel tests were dug across the site, which resulted in a more precise determination of its extent and significance.

Site 8CR925 is a prehistoric shell scatter with cultural material located no deeper than 20 inches (50 cm) and averaging 0-40 cm in depth. Eighty-one (81) shovel tests were positive for prehistoric material. Thirty-one (31) shovel tests yielded sand-tempered plain ceramics in six or more discrete areas indicating that the Formative Period site likely consisted of several overlapping activity areas which in turn suggests that the site area was occupied on several occasions over time. Shell species observed included fighting conch, clam, lightning whelk, and oyster. Small quantities of faunal bone was recovered in only two shovel tests, and it is noted that soil conditions were not conducive to bone preservation.

The site lies 160 meters (500 feet) to the west of the headwaters/slough of the Gordon River. This site may have been a short-term camping area or food-processing site. It measures approximately 60 meters (180 feet) north-south and 40 meters (120 feet) east-west and is roughly ovoid. An analysis of shell concentrations suggests that the site aligns along the N90 line, indicating, despite modern disturbance, a general north-south site alignment paralleling the river.

Despite the redeposit of cultural material, it is likely that the site was originally round or ovoid in configuration. The site occupies a very slight knoll-like rise in what would have historically been a marginal sandhill or mesic slash pine/saw palmetto flatwoods west of the source of the Gordon River. The topography gradually rises in elevation to the west where a linear series of coastal sandhills generally orient as a series of north-south linear formations.

The cultural material recovered from the Lucky Lane Site (8CR925) includes shell refuse and sand tempered plain ceramics. Shell refuse was the most common cultural material representing up to 50 grams of fragmented shell from some test holes. A total of 48 undecorated sand tempered sherds were recovered.

This assessment indicates that the entire site integrity has been impacted by farming activity. North-south furrows from cultivation can be discerned across the site. Aerial photographs from the early 1960s also show the area was then a recently abandoned citrus orchard. This farming activity (which included mechanical plowing to as much as 24 inches depth) and the shallow surfacial nature of the archaeological material has resulted in the mixing of nearly all cultural materials and upper level sediments. This is indicated by the north-south concentrations of ceramics and shell refuse observed on the site. This patterning is oriented in the direction of the plowing/furrowing.

A one-meter-square test unit was placed in the southeastern quarter of the site in an area that had yielded ceramics during shovel testing. The unit revealed an upper horizon of very light gray sand averaging 25 cm thick located on top of sterile white sand. An

irregular drop in the bottom of the gray sand context across the eastern portion of the unit suggests a north-south oriented furrow from farming activities. A very moderate amount of cultural material in the form of shell refuse and four (4) small sherds of sand-tempered plain ceramics were recovered from the unit reflecting the diffuse surfacial nature of the site.

Site 8CR925 is typical of many prehistoric sites documented on coastal sandhills. Most of these sites are surfacial scatters of marine (food) shell, ceramics, and, in the case of mid-Archaic sites, diffuse lithic material. This cultural material seldom exceeds a depth of 30 cm., except in the case of archaic lithic sites, which can be at depths of up to 60+ cm. However, lithic sites in Southern Florida are very diffuse and small scatters that are a result of retouching and reducing non-local chert material and tools. These sites also tend to be found most frequently on the (oldest) line of dunes furthest east

Topographically, important associations for the location of sandhill archaeological sites are: the close juncture of high sand hill areas to solution or marsh pond features (water sources); spurs, knolls, high-ground features bounded on two or more sides by lowland marsh features, or small isolated ridges found apart from the general sandhill systems; any anomalous formation reflecting unusual elevational change which include circular depressional features (solution holes), particularly those surrounded by high elevations. Two of the eight sites found in the Kinsale Parcel twelve miles to the north of the subject parcel were found in association with sinkhole formations, and five of the eight sites were within 50-60 meters of a marsh pond or water source.

It has been noted that sandhill sites may have some association, at least in the Formative Period with coastal shell middens. Prime locations are any sandhill system within 1-2 kilometers of a shell midden. Frequently these sites will be found at a point on the sandhill closest to the shell midden. In the case of the Kinsale Parcel there were three neighboring midden sites: the Horse Creek Campsite, the Wiggins Bay Shell Midden, and the Bonita Springs Shell Midden. All would be within 2 kilometers of the Kinsale Parcel. At least three of the eight discovered sites were found on the western portion of the sandhill chain closest to these middens. It is noted that the Lucky Lane Site (8CR925) found on the subject parcel is situated approximately 2 kilometers (1.5 miles) southeast of an historic shell midden site at Doctor's Pass

It is the consultant's opinion that site 8CR925 is a formative period shell scatter, probably representing habitation and subsistence activities, and is of local significance. The site is not regarded as eligible for listing on the National Register of Historic Places because of disturbances caused by prior farming activities. If the area of the site is to be impacted, then an archaeologist should monitor those initial ground disturbing activities.

Although a thorough and systematic effort was made recover archaeological information during this Phase II investigation of the Lucky Lane Site (8CR925) there is still the potential of artifacts and features existing. Should subsequent development reveal this, relevant agencies and the consultant archaeologist should be contacted. In the event that human remains are discovered then the provisions of Florida State Statue 872.05, the Unmarked Human Graves Act, will apply

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Appendix 1: Fleischmann and Lucky Lane Site, 8CR925 Positive Shovel Test Log
John Beriault, John Crump and Scott Faulkner 7-5-05 through 12-20-06

Note: ST-10 through 17 are a line of shovel tests running from the southern edge of the parcel north to northeast along the upland/slough interface in the eastern portion of the parcel.

ST-10: (18 in x 18 in.) Negative. 100 feet north of Golden Gate Parkway in an area of moderately elevated ground with slash pines, live oaks and cabbage palms where a pronounced scatter of eroded shell was observed

0-8 in	Very light gray sand, one fighting conch at 6 inches depth, clamshell fragments (**FS-2**)
8-32in	Whitish sand

Note: the following shovel tests were dug systematically and judgmentally to delineate the boundaries of the Lucky Lane Site, 8CR925

ST-20: (18 in. x 18 in.) Positive. 25 feet west of ST-10

0-9 in	Light gray sand, oyster shell @ 4-6 inches depth (**FS-3**)
9-20in	Whitish sand

ST-21: (18 in. x 18 in.) Positive 25 feet south of ST-10

0-12 in	Gray sand, oyster shell @ 0-4 inches depth (**FS-4**)
12-18in	Whitish sand
18-22in	Very light tan sand

ST-26: (18 in. x 18 in.) Positive. 25 feet north of ST-10

0-12 in	Light gray sand, fighting conch, oyster shell, one paste sherd STP ceramics (**FS-5**)
12-18in	Whitish sand

ST-27: (18 in. x 18 in.) Positive. 50 feet north of ST-10, southern mid portion of retention pond area.

0-8in	Gray sand, oyster shell fragments (**FS-6**)
8-18in	Whitish sand

ST-28: (18 in. x 18 in.) Positive. 75 feet north of ST-10

0-6 in	Gray sand, fragments of oyster and clam shell (**FS-7**)
6-18in	Whitish sand

ST-29: (18 in. x 18 in.) Positive. 100 feet north of ST-10

0-12 in	Gray sand, fragments of oyster shell to 12in depth (**FS-8**)
12-16in	Whitish sand

ST-34: (18 in. x 18 in.) Positive. 50 feet east of ST-10, southern mid portion of retention pond area.

0-8 in	Gray sand, oyster shell @ 4inch depth (**FS-9**)
8-12in	Whitish sand

ST-JC-1 (50cm x 50cm) Positive. At Datum, 100N, 100E near Phase I ST-10
0-25cm Light gray sand, marine shell, ceramics (**FS-10**)
25-80cm White sand
80-90cm Very dark gray sand
90-100cm White sand

ST-JC-2 (50cm x 50cm) Positive. 5 meters west of JC-1
0-30cm Light gray sand, marine shell, ceramics (**FS-11**)
30-90cm White sand
90-100cm Gray sand

ST-JC-3 (50cm x 50cm) Positive. 5 meters west of JC-2
0-30cm Light gray sand, marine shell (**FS-12**)
30-80cm White sand
80-100cm Very dark gray sand

ST-JC-4 (50cm x 50cm) Positive. 5 meters west of JC-3
0-25cm Light gray sand, marine shell, ceramics (**FS-13**)
25-100cm White sand

ST-JC-5 (50cm x 50cm) Positive.
0-25cm Light gray sand, marine shell (**FS-14**)
25-80cm White sand
80-100cm Very dark gray sand

ST-JC-6 (50cm x 50cm) Positive 5 meters south of JC-5
0-30cm Light gray sand, marine shell (**FS-15**)
30-80cm White sand
80-100cm Dark gray sand

ST-JC-7 (50cm x 50cm) Positive. 5 meters south of JC-6
0-33cm Light gray sand, marine shell (**FS-16**)
33-75cm White sand
75-100cm Very dark gray sand

ST-JC-8 (50cm x 50cm) Positive. 5 meters south of JC-7
0-30cm Light gray sand, marine shell (**FS-17**)
30-75cm White sand
75-100cm Dark brown sand

ST-JC-9 (50cm x 50cm) Positive. 5 meters south of JC-2
0-37cm Light gray sand, marine shell (**FS-18**)
37-72cm White sand
72-100cm Dark gray sand

ST-JC-10 (50cm x 50cm) Positive. 5 meters south of JC-9
0-33cm Light gray sand, marine shell, ceramics (**FS-19**)
33-100cm White sand

ST-JC-11 (50cm x 50cm) Positive 5 meters south of JC-10
0-40cm Light gray sand, marine shell, ceramics (**FS-20**)
40-80cm White sand
80-100cm Dark gray sand

ST-JC-12 (50cm x 50cm) Positive. 5 meters south of JC-11
0-40cm Light gray sand, marine shell, ceramics (**FS-21**)
40-100cm White sand

ST-JC-13 (50cm x 50cm) Positive. 5 meters south of JC-3
0-40cm Light gray sand, marine shell (**FS-22**)
40-100cm White sand

ST-JC-14 (50cm x 50cm) Positive. 5 meters south of JC-13
0-26cm Light gray sand, marine shell (**FS-23**)
26-100cm White sand

ST-JC-15 (50cm x 50cm) Positive. 5 meters south of JC-14
0-34cm Light gray sand, marine shell (**FS-24**)
34-100cm White sand

ST-JC-16 (50cm x 50cm) Positive. 5 meters south of JC-3
0-44cm Light gray sand, marine shell, faunal bone (**FS-25**)
44-100cm White sand

ST-JC-17 (50cm x 50cm) Positive. 5 meters south of JC-4
0-40cm Light gray sand, marine shell (**FS-26**)
40-100cm White sand

ST-JC-18 (50cm x 50cm) Positive. 5 meters south of JC-17
0-56cm Light gray sand, marine shell (**FS-27**)
56-100cm White sand

ST-JC-19 (50cm x 50cm) Positive. 5 meters south of JC-18
0-20cm Light gray sand, marine shell (**FS-28**)
20-40cm Pale brown sand
40-100cm White sand

ST-JC-20 (50cm x 50cm) Positive. 5 meters south of JC-19
0-40cm Light gray sand, marine shell, ceramics (**FS-29**)
40-95cm White sand
95-100cm Dark brown hardpan

ST-JC-31 (50cm x 50cm) Positive. 5 meters south of JC-12
0-20cm Light gray sand, marine shell (**FS-30**)
20-100cm White sand

ST-JC-32 (50cm x 50cm) Positive. 5 meters south of JC-8
0-33cm Light gray sand, marine shell (**FS-31**)
33-100cm White sand

ST-JC-33 (50cm x 50cm) Positive. 5 meters west of JC-2
0-35cm Gray sand, marine shell (**FS-32**)
35-100cm White sand

ST-JC-34 (50cm x 50cm) Positive.15 meters west of JC-33
0-40cm Light gray sand, marine shell (**FS-33**)
40-100cm White sand

ST-JC-37 (50cm x 50cm) Positive. 10 meters south of JC-34
0-34cm Light gray sand, marine shell, ceramics (**FS-34**)
34-100cm White sand

ST-JC-38 (50cm x 50cm) Positive. 25 meters north and 15 meters east of JC-1
0-40cm Light gray sand, marine shell (**FS-35**)
40-100cm White sand

ST-JC-40 (50cm x 50cm) Positive. 10 meters south, 15 meters east of JC-38
0-43cm Light gray sand, marine shell (**FS-36**)
43-100cm White sand

ST-JC-41 (50cm x 50cm) Positive. 5 meters north of JC-1
0-37cm Light gray sand, marine shell (**FS-37**)
37-100cm White sand

ST-JC-42 (50cm x 50cm) Positive. 5 meters north of JC-41
0-53cm Gray sand, marine shell (**FS-38**)
53-100cm White sand

ST-JC-43 (50cm x 50cm) Positive. 5 meters north of JC-42
0-40cm Light gray sand, marine shell, ceramics (**FS-39**)
40-100cm White sand

ST-JC-44 (50cm x 50cm) Positive. 5 meters north of JC-43
0-52cm Light gray sand, marine shell, ceramics (**FS-40**)
52-89cm White sand
89-100cm Gray sand

ST-JC-45 (50cm x 50cm) Positive. 5 meters north of JC-3
0-24cm Gray sand, marine shell (**FS-41**)
24-100cm White sand

ST-JC-46 (50cm x 50cm) Positive. 5 meters north of JC-45
0-35cm Gray sand, marine shell (**FS-43**)
35-100cm White sand

ST-JC-47 (50cm x 50cm) Positive. 5 meters north of JC-4
0-50cm Gray sand, marine shell (**FS-42**)
50-100cm White sand

ST-JC-48 (50cm x 50cm) Positive. 5 meters north of JC-47
0-36cm Gray sand, marine shell (**FS-44**)
36-100cm White sand

ST-JC-50 (50cm x 50cm) Positive. 5 meters north of JC-49
0-34cm Gray sand, marine shell (**FS-45**)
34-100cm White sand

ST-JC-52 (50cm x 50cm) Positive. 5 meters north of JC-42
0-35cm Gray sand, marine shell, ceramics (**FS-46**)
35-52cm White sand
52-100cm Brown sand

ST-JC-53 (50cm x 50cm) Positive. 5 meters north of JC-44
0-30cm Gray sand, marine shell, ceramics (**FS-47**)
30-100cm White sand

ST-JC-54 (50cm x 50cm) Positive. 5 meters north of JC-52
0-25cm Gray sand, marine shell (**FS-48**)
25-100cm White sand

ST-JC-55 (50cm x 50cm) Positive. 5 meters north of JC-53
0-32cm Gray sand, marine shell, ceramics (**FS-49**)
32-100cm White sand

ST-JC-56 (50cm x 50cm) Positive. 5 meters north of JC-54
0-40cm Gray sand, marine shell (**FS-50**)
40-80cm Gray brown sand
80-100cm White sand

ST-JC-57 (50cm x 50cm) Positive. 5 meters north of JC-55
0-26cm Gray sand, marine shell (**FS-51**)
26-100cm White sand

ST-JC-58 (50cm x 50cm) Positive. 5 meters north of JC-56
0-40cm Gray sand, marine shell, ceramics (**FS-52**)
40-100cm White sand

ST-JC-59 (50cm x 50cm) Positive. 5 meters north of JC-57
0-26cm Gray sand, marine shell (**FS-53**)
26-100cm White sand

ST-JC-60 (50cm x 50cm) Positive. 5 meters west of JC-53
0-44cm Gray sand, marine shell, ceramics (**FS-54**)
44-100cm White sand

ST-JC-61 (50cm x 50cm) Positive. 5 meters west of JC-60
0-28cm Gray sand, marine shell (**FS-55**)
28-100cm White sand

ST-JC-62 (50cm x 50cm) Positive. 5 meters west of JC-63
0-36cm Gray sand, marine shell, ceramics (**FS-56**)
36-100cm White sand

ST-JC-63 (50cm x 50cm) Positive. 5 meters west of JC-62
0-38cm Gray sand, marine shell (**FS-57**)
38-100cm White sand

ST-JC-64 (50cm x 50cm) Positive 5 meters west of JC-57
0-43cm Gray sand, marine shell, ceramics (**FS-58**)
43-100cm White sand

ST-JC-66 (50cm x 50cm) Positive. 5 meters west of JC-59
0-48cm Gray sand, marine shell (**FS-59**)
48-100cm White sand

ST-JC-67 (50cm x 50cm) Positive. 5 meter west of JC-56
0-49cm Gray sand, marine shell, ceramics (**FS-60**)
49-100cm White sand

ST-JC-68 (50cm x 50cm) Positive. 5 meters east of JC-56
0-49cm Gray sand, marine shell, ceramics (**FS-61**)
49-100cm White sand

ST-JC-76 (50cm x 50cm) Positive. 5 meters east of JC-42
0-43cm Gray sand, marine shell (**FS-62**)
43-100cm White sand

ST-JC-77 (50cm x 50cm) Positive. 5 meters east of JC-41
0-44cm Gray sand, marine shell, ceramics (**FS-63**)
44-100cm White sand

ST-JC-79 (50cm x 50cm) Positive. 5 meters east of JC-77
0-39cm Gray sand, marine shell, ceramics (**FS-64**)
39-100cm White sand

ST-JC-80 (50cm x 50cm) Positive 5 meters east of JC-79
0-26cm Gray sand, marine shell (**FS-65**)
26-100cm White sand

ST-JC-91 (50cm x 50cm) Positive. 5 meters north of JC-89
0-32cm Gray sand, marine shell (**FS-66**)
32-100cm White sand

ST-JC-97 (50cm x 50cm) Positive. 5 meters east of JC-54
0-38cm Gray sand, marine shell (**FS-67**)
38-100cm White sand

ST-JC-99 (50cm x 50cm) Positive.5 meters east of JC-52
0-34cm Gray sand, marine shell (**FS-68**)
34-100cm White sand

ST-JC-101 (50cm x 50cm) Positive. 5 meters east of JC-1
0-36cm Gray sand, marine shell, faunal bone (**FS-69**)
36-100cm White sand

ST-JC-102 (50cm x 50cm) Positive 5 meters east of JC-5
0-39cm Gray sand, marine shell (**FS-70**)
39-100cm White sand

ST-JC-103 (50cm x 50cm) Positive. 5 meters east of JC-101
0-27cm Gray sand, marine shell, ceramics (**FS-71**)
27-100cm White sand

ST-JC-104 (50cm x 50cm) Positive. 5 meters east of JC-102
0-44cm Gray sand, marine shell, ceramics (**FS-72**)
44-100cm White sand

ST-JC-105 (50cm x 50cm) Positive. 5 meters east of JC-103
0-30cm Gray sand, marine shell (**FS-73**)
30-100cm White sand

ST-JC-106 (50cm x 50cm) Positive. 5 meters east of JC-104
0-25cm Gray sand, marine shell (**FS-74**)
25-100cm White sand

ST-JC-107 (50cm x 50cm) Positive. 5 meters east of JC-105
0-30cm Gray sand, marine shell (**FS-75**)
30-100cm White sand

ST-JC-108 (50cm x 50cm) Positive. 5 meters east of JC-106
0-47cm Gray sand, marine shell (**FS-76**)
47-100cm White sand

ST-JC-110 (50cm x 50cm) Positive. 5 meters east of JC-78
0-27cm Gray sand, marine shell, ceramics (**FS-77**)
27-100cm White sand

ST-JC-111 (50cm x 50cm) Positive. 5 meters east of JC-111
0-42cm Gray sand, marine shell (**FS-78**)
42-100cm White sand

ST-JC-112 (50cm x 50cm) Positive.5 meters east of JC-100
0-30cm Gray sand, marine shell, ceramics (**FS-79**)
30-100cm White sand

ST-JC-113 (50cm x 50cm) Positive. 5 meters east of JC-112
0-33cm Gray sand, marine shell, ceramics (**FS-80**)
33-100cm White sand

ST-JC-115 (50cm x 50cm) Positive. 5 meters east of JC-114
0-40cm Gray sand, marine shell (**FS-81**)
40-100cm White sand

ST-JC-116 (50cm x 50cm) Positive. 5 meters east of JC-115
0-36cm Gray sand, marine shell, ceramics (**FS-82**)
36-100cm White sand

ST-JC-133 (50cm x 50cm) Positive. 5 meters east of JC-6
0-25cm Gray sand, marine shell (**FS-83**)
25-100cm White sand

ST-JC-134 (50cm x 50cm) Positive 5 meters east of JC-133
0-30cm Gray sand, marine shell (**FS-84**)
30-100cm White sand

ST-JC-135 (50cm x 50cm) Positive. 5 meters east of JC-134
0-33cm Gray sand, marine shell, ceramics (**FS-85**)
33-100cm White sand

ST-JC-136 (50cm x 50cm) Positive. 5 meters east of JC-135
0-40cm Gray sand, marine shell, ceramics (**FS-86**)
40-100cm White sand

ST-JC-137 (50cm x 50cm) Positive. 5 meters east of JC-7
0-32cm Gray sand, marine shell (**FS-87**)
32-100cm White sand

ST-JC-138 (50cm x 50cm) Positive. 5 meters east of JC-137
0-35cm Gray sand, marine shell, ceramics (**FS-88**)
35-100cm White sand

ST-JC-139 (50cm x 50cm) Positive. 5 meters east of JC-138
0-33cm Gray sand, marine shell (**FS-89**)
33-100cm White sand

ST-JC-141 (50cm x 50cm) Positive. 5 meters east of JC-136
0-30cm Gray sand, marine shell, ceramics (**FS-90**)
30-100cm White sand

ST-JC-149 (50cm x 50cm) Positive. 5 meters east of JC-147
0-36cm Gray sand, marine shell, ceramics (**FS-91**)
36-100cm White sand

Appendix 2: Field Specimen Log, Fleischmann Parcel and Lucky Lane Site, 8CR925, Phase One and Two

Field Specimen Number	Provenience	Description
1	Shovel Test 7, 12 inch depth	One piece eroded clam shell
2	Shovel Test 10, 2-6 inch depth	One fighting conch, clam shell fragments
3	Shovel Test 20, 4-9 inch depth	Oyster shell fragments
4	Shovel Test 21, 0-4 inch depth	Oyster shell fragments
5	Shovel Test 26, 0-12 inch depth	One fighting conch, oyster shell fragments, one paste sherd STP ceramics
6	Shovel Test 27, 0-8 inch depth	Oyster shell fragments
7	Shovel Test 28, 0-9 inch depth	Oyster and clam shell fragments
8	Shovel Test 29, 0-12 inch depth	Oyster shell fragments
9	Shovel Test 34, 4 inch depth	Oyster shell fragments
10	Shovel Test JC-1, 0-25cm depth	Marine shell (21.7g), 1 STP ceramic (1.7g)
11	Shovel Test JC-2, 0-50cm depth	Marine shell (80.0g), 2 STP ceramics (2.2g)
12	Shovel Test JC-3, 0-30cm depth	Marine shell (14.7g)
13	Shovel Test JC-4, 0-25cm depth	Marine shell (53.6g), 1 STP ceramic (1.9g)
14	Shovel Test JC-5, 0-30cm depth	Marine shell (7.1g)
15	Shovel Test JC-6, 0-30cm depth	Marine shell (9.1g)
16	Shovel Test JC-7, 0-33cm depth	Marine shell (7.3g)
17	Shovel Test JC-8, 0-30cm depth	Marine shell (4.2g)
18	Shovel Test JC-9, 0-37cm depth	Marine shell (39.3g)
19	Shovel Test JC-10, 0-33cm depth	Marine shell (40.7g), 2 STP ceramics (1.7g)
20	Shovel Test JC-11, 0-40cm depth	Marine shell (74.2g), 3 STP ceramics (5.1g)
21	Shovel Test JC-12, 0-40cm depth	Marine shell (30.1g), 1 STP ceramic (0.3g)
22	Shovel Test JC-13, 0-40cm depth	Marine shell (43.8g)
23	Shovel Test JC-14, 0-26cm depth	Marine shell (8.7g)
24	Shovel Test JC-15, 0-34cm depth	Marine shell (13.7g)
25	Shovel Test JC-16, 0-44cm depth	Marine shell (52.4g), 1 Faunal bone (0.1g)
26	Shovel Test JC-17, 0-40cm depth	Marine shell (6.4g)
27	Shovel Test JC-18, 0-56cm depth	Marine shell (2.3g)
28	Shovel Test JC-19, 0-20cm depth	Marine shell (28.8g), 1 STP ceramic (0.6g)

29	Shovel Test JC-20, 0-40cm depth	Marine shell (0.4g), 1 STP ceramic (0.9g)
30	Shovel Test JC-31, 0-20cm depth	Marine shell (9.0g)
31	Shovel Test JC-32, 0-23cm depth	Marine shell (4.1g)
32	Shovel Test JC-33, 0-35cm depth	Marine shell (9.4g)
33	Shovel Test JC-34, 0-40cm depth	Marine shell (0.8g)
34	Shovel Test JC-37, 0-34cm depth	1 STP ceramic (1.2g)
35	Shovel Test JC-38, 0-40cm depth	Marine shell (2.9g)
36	Shovel Test JC-40, 0-43cm depth	Marine shell (4.7g)
37	Shovel Test JC-41, 0-37cm depth	Marine shell (12.0g)
38	Shovel Test JC-42, 0-53cm depth	Marine shell (28.5g)
39	Shovel Test JC-43, 0-40cm depth	Marine shell (77.6g), 3 STP ceramics (2.5g)
40	Shovel Test JC-44, 0-52cm depth	Marine shell (46 5g), 2 STP ceramics (4.8g)
41	Shovel Test JC-45, 0-24cm depth	Marine shell (15.9g)
42	Shovel Test JC-47, 0-35cm depth	Marine shell (72.8g)
43	Shovel Test JC-46, 0-50cm depth	Marine shell (22.9g)
44	Shovel Test JC-48, 0-36cm depth	Marine shell 10.6g)
45	Shovel Test JC-50, 0-34cm depth	Marine shell (5.6g)
46	Shovel Test JC-52, 0-35cm depth	Marine shell (6 6g), 3 STP ceramics (13.6g)
47	Shovel Test JC-53, 0-30cm depth	Marine shell (66.0g), 2 STP ceramics (7.8g)
48	Shovel Test JC-54, 0-25cm depth	Marine shell (2.2g)
49	Shovel Test JC-55, 0-32cm depth	Marine shell (48.6g), 1 STP ceramic (0.5g)
50	Shovel Test JC-56, 0-40cm depth	Marine shell (11.0g)
51	Shovel Test JC-57, 0-26cm depth	Marine shell (43.7g)
52	Shovel Test JC-58, 0-40cm depth	Marine shell (6.8g), 1 STP ceramic (3.2g)
53	Shovel Test JC-59, 0-26cm depth	Marine shell (23.9g)
54	Shovel Test JC-60, 0-44cm depth	Marine shell (25.1g), 1 STP ceramic (2.4g)
55	Shovel Test JC-61, 0-28cm depth	Marine shell (6.5g)
56	Shovel Test JC-62, 0-36cm depth	Marine shell (21.6g), 1 STP ceramic (2.4g)
57	Shovel Test JC-63, 0-38cm depth	Marine shell (0.4g)
58	Shovel Test JC-64, 0-43cm depth	Marine shell (2.4g), 1 STP ceramic (3.0g)
59	Shovel Test JC-66, 0-48cm depth	Marine shell (51.0g)
60	Shovel Test JC-67, 0-35cm depth	Marine shell (8.9g), 3 (1 rim) STP ceramics (1.9g), 1 possible worked clam shell (86.3g)

61	Shovel Test JC-68, 0-49cm depth	Marine shell (5.2g), 1 STP ceramic (0.6g)
62	Shovel Test JC-76, 0-43cm depth	Marine shell (16.3g)
63	Shovel Test JC-77, 0-44cm depth	Marine shell (14.7g), 1 STP ceramic (1.1g)
64	Shovel Test JC-79, 0-39cm depth	Marine shell (3.6g), 1 STP ceramic (0.8g)
65	Shovel Test JC-80, 0-26cm depth	Marine shell (27.9g)
66	Shovel Test JC-91, 0-32cm depth	Marine shell (35.1g)
67	Shovel Test JC-97, 0-38cm depth	Marine shell (0.6g)
68	Shovel Test JC-99, 0-34cm depth	Marine shell (24.3g)
69	Shovel Test JC-101, 0-36cm depth	Marine shell (21.2g), 1 STP ceramic (0.7g)
70	Shovel Test JC-102, 0-39cm depth	Marine shell (10.7g)
71	Shovel Test JC-103, 0-27cm depth	Marine shell (22.1g), 2 STP ceramics (2.5g)
72	Shovel Test JC-104, 0-44cm depth	Marine shell (23.7g), 1 STP ceramic (6.3g)
73	Shovel Test JC-105, 0-30cm depth	Marine shell (2.7g)
74	Shovel Test JC-106, 0-25cm depth	Marine shell (14.4g)
75	Shovel Test JC-107, 0-30cm depth	Marine shell (10.3g)
76	Shovel Test JC-108, 0-47cm depth	Marine shell (7.0g)
77	Shovel Test JC-110, 0-27cm depth	Marine shell (1.6g), 2 STP ceramics (6.1g)
78	Shovel Test JC-111, 0-42cm depth	Marine shell (5.0g)
79	Shovel Test JC-112, 0-30cm depth	Marine shell (1.0g), 2 STP ceramics (1.1g)
80	Shovel Test JC-113, 0-33cm depth	1 STP ceramic (0.6g)
81	Shovel Test JC-115, 0-40cm depth	Marine shell (2.2g)
82	Shovel Test JC-116, 0-36cm depth	1 STP ceramic (3.3g)
83	Shovel Test JC-133, 0-25cm depth	Marine shell (5.1g)
84	Shovel Test JC-134, 0-30cm depth	Marine shell (2.6g)
85	Shovel Test JC-135, 0-33cm depth	Marine shell (32.3g), 1 STP ceramic (0.7g)
86	Shovel Test JC-136, 0-40cm depth	Marine shell (2.5g), 1 STP ceramic (1.5g)
87	Shovel Test JC-137, 0-32cm depth	Marine shell (2.0g)
88	Shovel Test JC-138, 0-35cm depth	Marine shell (8.1g), 3 (1 rim) STP ceramics (5.4g)
89	Shovel Test JC-139, 0-33cm depth	Marine shell (15.8g)
90	Shovel Test JC-141, 0-30cm depth	Marine shell (23.3g), 3 STP ceramics (4.3g)
91	Shovel Test JC-149, 0-36cm depth	Marine shell (16.5g), 1 STP ceramic (0.8g)
92	1mx1m Test Unit 1, 0-30cm depth	Marine shell, STP ceramics
93	1mx1m Test Unit 1, 30-40cm depth	Marine shell, STP ceramics

Ent D (FMSF only) / /

Survey Log Sheet

Florida Master Site File
Version 2.0 9/97

Survey # (FMSF only)

Consult *Guide to the Survey Log Sheet* for detailed instructions.

Identification and Bibliographic Information

Survey Project (Name and project phase) Luckey Lane Site Phase Two Archaeological Assessment

Report Title (exactly as on title page) A Phase Two Archaeological Assessment of the Luckey Lane Site, 8CR925, Fleischmann Parcel, Collier County, Florida

Report Author(s) (as on title page– individual or corporate; last names first) Beriault, John G., Crump, John
Publication Date (year) 2007 **Total Number of Pages in Report** (Count text, figures, tables, not site forms) 52

Publication Information (If relevant, series and no. in series, publisher and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*: see *Guide to the Survey Log Sheet*.) Archaeological and Historical Survey Technical Report #767

Supervisor(s) of Fieldwork (whether or not the same as author[s]; last name first) Carr, Robert S.
Affiliation of Fieldworkers (organization, city) Archaeological and Historical Conservancy(AHC), Davie, FL

Key Words/Phrases (Don't use the county, or common words like *archaeology, structure, survey, architecture*. Put the most important first. Limit each word or phrase to 25 characters.) Collier, Goodlette, Frank, Gordon, Hole In the Wall Swamp, Fleischmann, Luckey

Survey Sponsors (corporation, government unit, or person who is directly paying for fieldwork)
Name CH2M-Hill
Address/Phone 4350 W. Cypress Street, Ste. 600 Tampa, Florida 33607-4155

Recorder of *Log Sheet* John G. Beriault **Date *Log Sheet* Completed** 1/06/07
Is this survey or project a continuation of a previous project? θNo X Yes: Previous survey #(s) (FMSF only)

Mapping

Counties (List each one in which field survey was done - do not abbreviate; use supplement sheet if necessary) Collier County

USGS 1:24,000 Map(s) : Map Name/Date of Latest Revision (use supplement sheet if necessary): Naples North, 1991 rev.

Description of Survey Area

Dates for Fieldwork: Start 12/05/06 End 1/05/07 **Total Area Surveyed** (fill in one) __ hectares 1 acres approx.

Number of Distinct Tracts or Areas Surveyed One

If Corridor (fill in one for each): **Width** _____ meters _____ feet **Length** _____ kilometers _____ miles

Survey Log Sheet of the Florida Master Site File

Research and Field Methods

Types of Survey (check all that apply): x archaeological θ architectural θ historical/archival θ underwater θ other: _____

Preliminary Methods (4Check as many as apply to the project as a whole. If needed write others at bottom).

θ Florida Archives (Gray Building)	θ library research- *local public*	θ local property or tax records	θ windshield
θ Florida Photo Archives (Gray Building)	θ library-special collection - *nonlocal*	θ newspaper files	θ aerial photography
x FMSF site property search	θ Public Lands Survey (maps at DEP)	θ literature search	
θ FMSF survey search	x local informant(s)	θ Sanborn Insurance maps	

x other (describe)grayline aerial photographs and USGS Map _____

Archaeological Methods (Describe the proportion of properties at which method was used by **writing in** the corresponding letter. Blanks are interpreted as "None.")

F(ew: 0-20%), **S**(ome: 20-50%); **M**(ost: 50-90%); or **A**(ll, Nearly all: 90-100%). If needed write others at bottom.

θ Check here if **NO** archaeological methods were used.

___ surface collection, controlled	___ other screen shovel test (size: ____)	___ block excavation (at least 2x2 M)
___ surface collection, uncontrolled	___ water screen (finest size: ____)	___ soil resistivity
_A_ 160 shovel test-1/4"screen	___ posthole tests	___ magnetometer
___ shovel test-1/8" screen	___ auger (size:____)	___ side scan sonar
___ shovel test 1/16"screen	___ coring	___ unknown
___ shovel test-unscreened	___ test excavation (at least 1x2 M)	

_A_ other (describe): one one-meter square test unit _____

Historical/Architectural Methods (Describe the proportion of properties at which method was used by **writing in** the corresponding letter. Blanks are interpreted as "None.")

F(ew: 0-20%), **S**(ome: 20-50%); **M**(ost: 50-90%); or **A**(ll, Nearly all: 90-100%) If needed write others at bottom.

X Check here if **NO** historical/architectural methods were used.

___ building permits	___ demolition permits	___ neighbor interview	___ subdivision maps
___ commercial permits	___ exposed ground inspected	___ occupant interview	___ tax records
___ interior documentation	___ local property records	___ occupation permits	___ unknown

___ other (describe): _____

Scope/Intensity/Procedures Review of USGS maps and aerial photographs followed by 160 gridded shovel tests over entire area of site 8CR925, the selection of areas of intensity, and the excavation of one meter-square test unit by context and the profiling of two walls of the unit.

Survey Results (cultural resources recorded)

Site Significance Evaluated? XYes θNo If *Yes*, circle NR-eligible/significant site numbers below.

Site Counts: Previously Recorded Sites One **Newly Recorded Sites** None

Previously Recorded Site #'s (List site #'s without "8." Attach supplementary pages if necessary) CR925

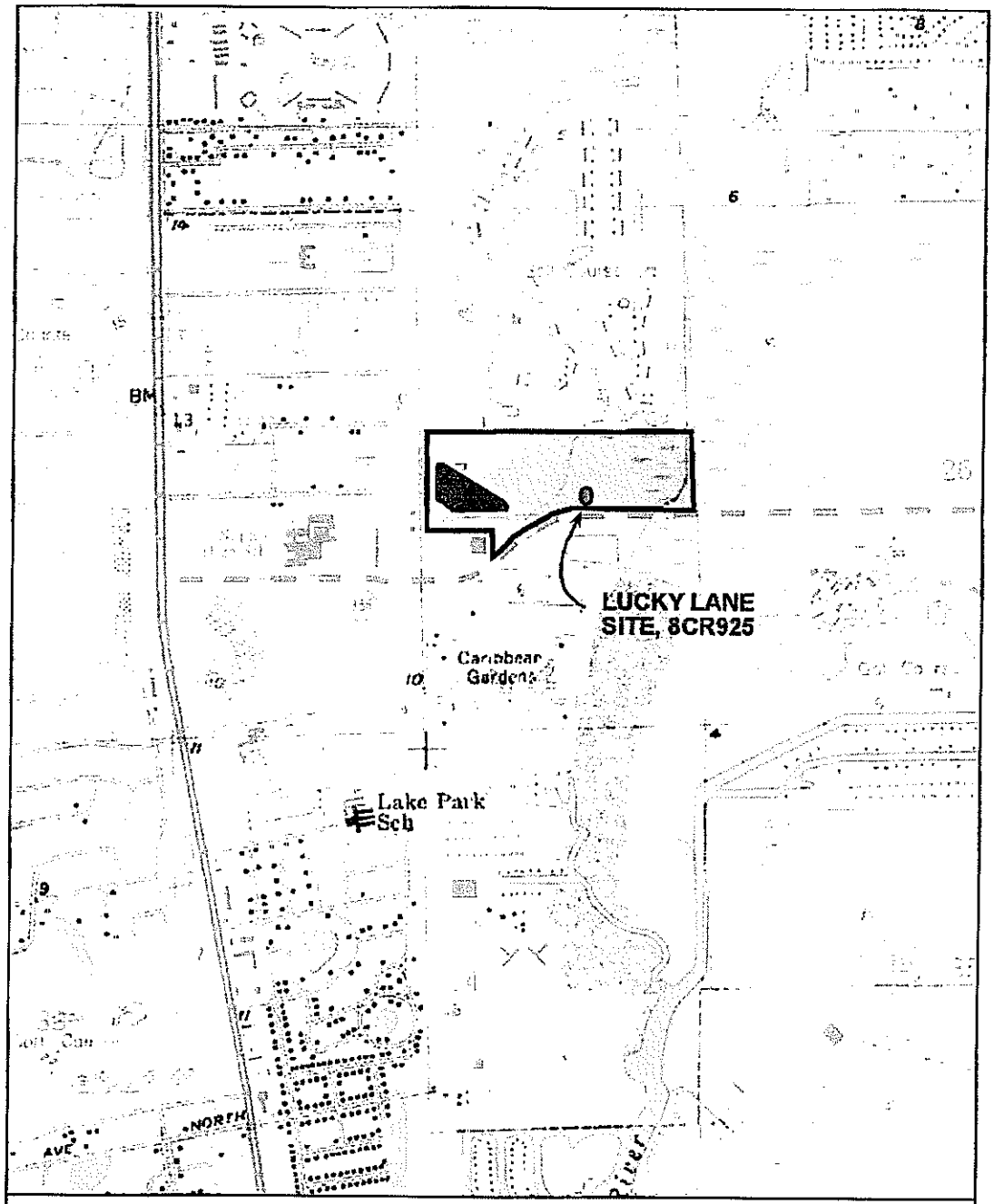
Newly Recorded Site #'s (Are you sure all are originals and not updates? Identify methods used to check for updates, ie, researched the FMSF records. List site #'s without "8 " Attach supplementary pages if necessary.) _____

Site Form Used: X SmartForm θ FMSF Paper Form θ Approved Custom Form: Attach copies of written approval from FMSF Supervisor.

DO NOT USE ♣♣♣♣♣♣SITE FILE USE ONLY♣♣♣♣♣♣DO NOT USE

BAR Related		BHP Related
θ 872	θ 1A32	θ State Historic Preservation Grant
θ CARL	θ UW	θ Compliance Review: CRAT #

ATTACH PLOT OF SURVEY AREA ON PHOTOCOPIES OF USGS 1:24,000 MAP(S)



Map of the Fleischmann Parcel area with the retention pond sub-area outlined in yellow

= RETENTION POND AREA

N

TOWNSHIP 49S, RANGE 25E, SECTION 27
USGS MAP: NAPLES NORTH, REV. 1991

0 1/8 1/4 1/2 Mile approx

☐ Original
XUpdate
(give site#)

ARCHAEOLOGICAL SITE FORM
FLORIDA MASTER SITE FILE
Version 2.3 7/05

Consult *Guide to Archaeological Site Form* for detailed instructions

Site #8CR925
Recorder Site#
Field Date 12/20/06
Form Date 12/27/06

Site Name(s) Luckey Lane *Multiple Listing [DHR only]*
Project Name Phase II Archaeological Assessment of the Lucky Lane Site, Fleischmann Parcel *FMSF Survey #*
Ownership: ☐private-profit ☐private-nonprofit ☐private-individual ☐private-unspecifd ☐city Xcounty ☐state ☐federal ☐foreign ☐Native American ☐unknown
USGS 7.5 Map Name & Date Naples North, 1991 County Collier
Township 49S Range 25E Section 27 ☐ Check if Irregular Section; Qtr Section (check all that apply): ☐NE ☐NW X SE ☐SW
Landgrant Tax Parcel # (s)
City / Town (if within 3 mi) Naples In Current City Limits? X yes ☐no ☐unknown
UTM: Zone ☐16 ☐17 Easting _____0 Northing _____0
Address / Vicinity of / Route to 1300 feet east of Goodlette-Frank Road and 50 feet north of Golden Gate Parkway ¼ mile east of the intersection of that road and Goodlette-Frank

Name of Public Tract (e g , park)

~~TYPE OF SITE (Check all choices that apply; if needed write others in at bottom)~~

SETTING *

- ☐ Land - *terrestrial*
- ☐ Cave/Sink - *subterranean*
  - ☐ terrestrial
  - ☐ aquatic
  - ☐ intermittently flooded
- ☐ Wetland - *palustrine*
  - ☐ usually flooded
  - ☐ sometimes flooded
  - ☐ usually dry
- ☐ Lake/Pond - *lacustrine*
- ☐ River/Stream/Creek - *riverine*
- ☐ Tidal - *estuarine*
- ☐ Saltwater - *marine*
  - ☐ marine unspecified
  - ☐ "high energy" marine
  - ☐ "low energy" marine
- ☐ Other

STRUCTURES - OR - FEATURES *

☐ aboriginal boat	☐ fort	☐ road segment
☐ agric/farm building	☐ midden	☐ shell midden
☐ burial mound	☐ mill unspecified	☐ shell mound
☐ building remains	☐ mission	☐ shipwreck
☐ cemetery/grave	☐ mound unspecified	☐ subsurface features
☐ dump/refuse	☐ plantation	☐ surface scatter
☐ earthworks	☐ platform mound	☐ well

FUNCTION *

- ☐ none specified
- ☐ campsite
- ☐ extractive site
- ☐ habitation (prehistoric)
- ☐ homestead (historic)
- ☐ farmstead
- ☐ village (prehistoric)
- ☐ town (historic)
- ☐ quarry

~~HISTORIC CONTEXTS (Check all that apply; use most specific subphases: e.g., if *Glades Ia* only, don't also use *Glades I*)~~

Aboriginal *

☐ Alachua	☐ Englewood	☐ Glades unspecif	☐ St Augustine	☐ Seminole: 2d War To 3d	☐ First Spanish 1513-99
☐ Archaic, Early	☐ Fort Walton	☐ Hickory Pond	☐ St Johns Ia	☐ Seminole: 3d War On	☐ First Spanish 1600-99
☐ Archaic, Middle	☐ Glades Ia	☐ Leon-Jefferson	☐ St Johns Ib	☐ Seminole unspecified	☐ First Spanish 1700-1763
☐ Archaic, Late	☐ Glades Ib	☐ Malabar I	☐ St Johns I unspecified	☐ Swift Creek, Early	☐ First Spanish unspecified
☐ Archaic unspecified	X Glades I unspecif	☐ Malabar II	☐ St Johns IIa	☐ Swift Creek, Late	☐ British 1763-1783
☐ Belle Glade I	☐ Glades IIa	☐ Manasota	☐ St Johns IIb	☐ Swift Creek unspecified	☐ Second Spanish 1783-1821
☐ Belle Glade II	☐ Glades IIb	☐ Mount Taylor	☐ St Johns IIc	☐ Transitional	☐ American Territorial 1821-45
☐ Belle Glade III	☐ Glades IIc	☐ Norwood	☐ St Johns II unspecified	☐ Weeden Island I	☐ American Civil War 1861-65
☐ Belle Glade IV	☐ Glades II unspecif	☐ Orange	☐ St Johns unspecified	☐ Weeden Island II	☐ American 19th Century
☐ Belle Glade unspecif	☐ Glades IIIa	☐ Paleoindian	☐ Santa Rosa	☐ Weeden Island unspecif	☐ American 20th Century
☐ Cades Pond	☐ Glades IIIb	☐ Pensacola	☐ Santa Rosa-Swift Creek	☐ Prehistoric nonceramic	☐ American unspecified
☐ Deptford	☐ Glades IIIc	☐ Perico Island	☐ Seminole: Colonization	☐ Prehistoric ceramic	☐ African-American
	☐ Glades III unspecif	☐ Safety Harbor	☐ Seminole: 1st War To 2d	☐ Prehistoric unspecified	

Nonaboriginal *

☐ Other (Less common phases are not check-listed For historic sites also give specific dates if known)

ς Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File)

~~RECORDER'S OPINION OF EVALUATION OF SITE (NOT OFFICIAL; Check one on each line)~~

Potentially eligible individually for National Register of Historic Places? ☐yes X no ☐ insufficient information
Potentially eligible as contributor to a National Register district? ☐yes X no ☐ insufficient information
Explanation of Evaluation (Required if evaluated; limit to 3 lines; attach full justification) Highly disturbed by prior farming (plowing), largely surfacial scatter of food shell and ceramics.

Recommendations for Owner or SHPO Action No further action

DHR USE ONLY ♣♣♣♣♣♣ OFFICIAL EVALUATIONS ♣♣♣♣♣♣ DHR USE ONLY

NR DATE ___/___/___ *KEEPER-NR ELIGIBILITY:* ☐yes ☐no *Date* ___/___/___
SHPO-NR ELIGIBILITY: ☐yes ☐no ☐potentially elig. ☐insufficient info *Date* ___/___/___
DELIST DATE ___/___/___ *LOCAL DESIGNATION:* *Date* ___/___/___
Local office
National Register Criteria for Evaluation ☐a ☐b ☐c ☐d (See *National Register Bulletin 15*, p. 2)

ARCHAEOLOGICAL SITE FORM

Site #8CR925

Consult *Guide to Archaeological Site Form* for detailed instructions.

FIELD METHODS (Check one or more methods for detection and for boundaries)

SITE DETECTION *

☐ no field check ☐ exposed ground x screened shovel
☐ literature search ☐ posthole digger _____
☐ informant report ☐ auger--size:___ _____
☐ remote sensing ☐ unscreened shovel _____

SITE BOUNDARIES *

☐ bounds unknown ☐ remote sensing ☐ unscreened shovel
☐ none by recorder ☐ insp exposed ground x screened shovel
☐ literature search ☐ posthole tests ☐ block excavations
☐ informant report ☐ auger--size:_____ ☐ estimate or guess

Other methods; number, size, depth, pattern of units; screen size (attach site plan) 160 50cm shovel tests screened with ¼ inch mesh screening

SITE DESCRIPTION

Extent Size (m^2) 2500 Depth/stratigraphy of cultural deposit 0 - 30cm

Temporal Interpretation* - Components (check one): ☐ single ☐ prob single X prob multiple ☐ multiple ☐ uncertain ☐ unknown

Describe each occupation in plan (refer to attached large scale map) and stratigraphically Discuss temporal and functional interpretations:

Integrity Overall disturbance*: ☐ none seen ☐ minor ☐ substantial X major X redeposited ☐ destroyed-**document!** ☐ unknown

Disturbances/threats/protective measures Development by Collier County as part of a water treatment facility

Surface: area collected _____ m^2 # collection units _____ ; Excavation: # noncontiguous blocks _____

ARTIFACTS

Total Artifacts #_____(C)ount or (E)stimate? Surface #_____(C) or (E) Subsurface # _____(C) or (E)

COLLECTION SELECTIVITY *

☐ unknown X unselective (all artifacts)
☐ selective (some artifacts)
☐ mixed selectivity

SPATIAL CONTROL*

☐ uncollected ☐ general (not by subarea)
☐ unknown ☐ controlled (by subarea)
☐ variable spatial control
☐ Other_____

ARTIFACT CATEGORIES* and DISPOSITIONS * (*example*: _A_ bone-human)

Pick exactly one *code* from Disposition List ⇨ ⇨ ⇨ ⇨

____ bone-animal	____ exotic-nonlocal
____ bone-human	____ glass
____ bone-unspecified	____ lithics-aboriginal
____ bone-worked	____ metal-nonprecious
____ brick/building debris	____ metal-precious/coin
_A__ ceramic-aboriginal	_A__ shell-unworked
____ ceramic-nonaboriginal	_A__ shell-worked
____ daub	____ Others: _____

Disposition List*
A - category always collected
S - some items in category collected
O - observed first hand, but not collected
R - collected and subsequently left at site
I - informant reported category present
U - unknown

Artifact Comments _____

DIAGNOSTICS (Type or mode, and frequency: e g , *Suwanee ppk, heat-treated chert, Deptford Check-stamped, ironstone/whiteware*)

1 _____	N=___	5._____	N=___	9 _____	N=___
2 _____	N=___	6._____	N=___	10 _____	N=___
3 _____	N=___	7 _____	N=___	11 _____	N=___
4 _____	N=___	8._____	N=___	12 _____	N=___

ENVIRONMENT

Nearest fresh water type* & name (incl relict source) Gordon River slough Distance (m)/bearing 200 M east
Natural community (FNAI category* or leave blank) Marginal sandhill/oak scrub regenerating from old plowed field
Local vegetation Scrub oak, saw palmetto, grasses
Topography* moderately _____ Min Elevation 3 meters Max Elevation 4 meters
Present land use undeveloped, long-abandoned farm field
SCS soil series Immokalee/Saint Lucie fine Soil association

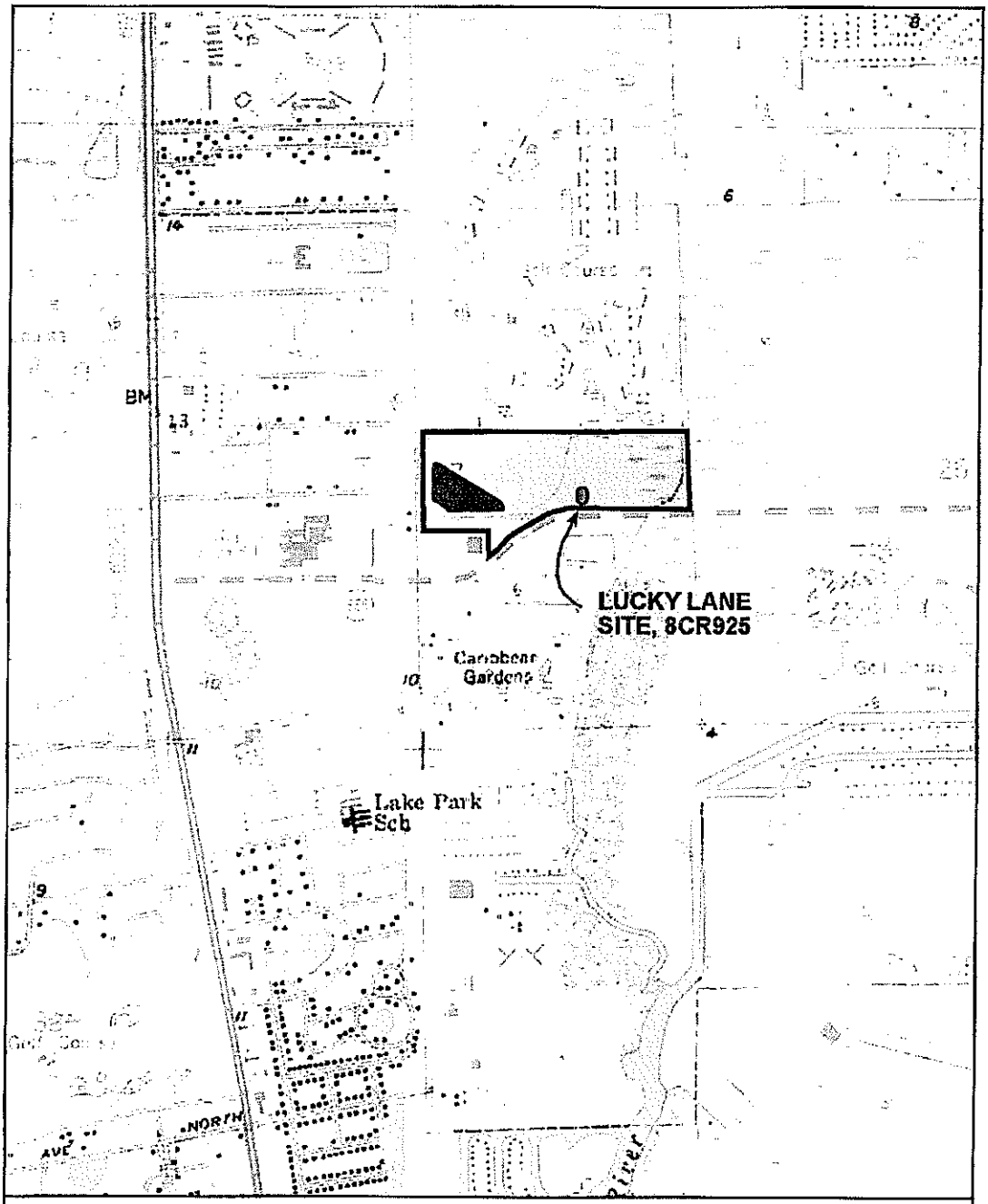
FURTHER INFORMATION

Informant(s): Name/Address/Phone/Email John Beriault, Robert S. Carr (954) 792-9776
Describe field & analysis notes, artifacts, photos For each, give type*(e g , notes), curating organization*, accession #s, and short description

Manuscripts or Publications on the site (Use continuation sheet, give FMSF# if relevant)

Recorder(s): Name/Addr./Phone/Email John G. Beriault, jgberiault@aol.com
Affiliation* or FAS Chapter Archaeological and Historical Conservancy Inc.

ς Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File). **SITE PLAN & USGS REQUIRED** At 1"=300' (1:3600) or larger scale show: site boundaries, scale, north arrow, datum, test/collection units, landmarks mappers date



Map of the Fleischmann Parcel area with the retention pond sub-area outlined in yellow, showing location of the Lucky Lane Site, 8CR925.

= RETENTION POND AREA

N

TOWNSHIP 49S, RANGE 25E, SECTION 27
USGS MAP: NAPLES NORTH, REV. 1991

0 1/8 1/4 1/2 Mile approx.

A PHASE I CULTURAL RESOURCE ASSESSMENT GORDON RIVER GREENWAY PRESERVE PARCEL, COLLIER COUNTY, FLORIDA

By:
Robert S. Carr, M.S.
John G. Beriault, B.A.
Joseph F. Mankowski, M.A.
Scott Faulkner

ARCHAEOLOGICAL AND HISTORICAL CONSERVANCY, INC.
4800 SW 64th Avenue, Suite 107
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archlgcl@bellsouth.net
(954) 792-9776

For:
Collier County Parks Administration
Naples, Florida

AUGUST 2007
AHC PROJECT NO. 2007.34
AHC TECHNICAL REPORT NO. 800

A Phase I Cultural Resource Assessment Gordon River Greenway Preserve Parcel, Collier County, Florida

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August 2007
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AHC Technical Report No. 800

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Consultant Summary

In May through July 2007, the Archaeological and Historical Conservancy, Inc. (AHC) conducted a Phase I cultural resource assessment for the Collier County Parks Administration of the Gordon River Greenway Preserve parcel located east of the City of Naples in west-central Collier County. The ±153-acre parcel was surveyed to locate sites of archaeological and/or historical significance.

The assessment fulfills the Collier County Parks Management Plan and Florida Community Trust requirements for a cultural resource survey of the Gordon River Greenway Preserve, specifically in response to Florida's Chapters 267 and 373. This assessment was conducted in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties. The work and the report conform to the specifications set forth in Chapter IA-46, Florida Administrative Code.

The subject parcel encompasses parts of Sections 27 and 34 in Township 49S, Range 25E (Figure 1). The parcel encompasses both cleared and uncleared woodlands and adjacent wetlands. The project parcel abuts the upper reaches of the Gordon River.

The subject parcel was assessed using an archival review a pedestrian survey and subsurface testing. Most of the parcel was determined to have a low probability for archaeological sites with seven probability zones for archaeological resources identified. Generally, those upland areas closest to the Gordon River were regarded as moderate probability areas.

A total of 96 shovel tests was dug across the parcel. Five transects were placed along or near the creek. Shovel tests, each 50 cm square, were dug up to one-meter depth where possible. Each test hole was placed at 20-meter intervals on the moderate probability transects and at 50-meter intervals in areas regarded as having a low to moderate probability for archaeological sites. Several judgmental shovel tests also were dug. Ten shovel tests yielded cultural material. One site of historic refuse, possibly associated with the Nehrling Slathouse, 8CR975, was documented 100 meters north of that site. One redeposited prehistoric site, the Airport Interface Site, 8CR1063, was found in a disturbed area northwest of the Naples Municipal Airport. Redeposited prehistoric shell refuse was found, possibly from a site that originally may have been on the adjacent airport property. The site was probably bulldozed during the airport construction and pushed on to what is now the preserve parcel.

Site 8CR978 is destroyed and redeposited and is not eligible for listing on the National Register of Historic Places. Site 8CR1063 is of uncertain significance and Phase II testing is recommended to determine its potential eligibility for listing on the National Register of Historic Places.

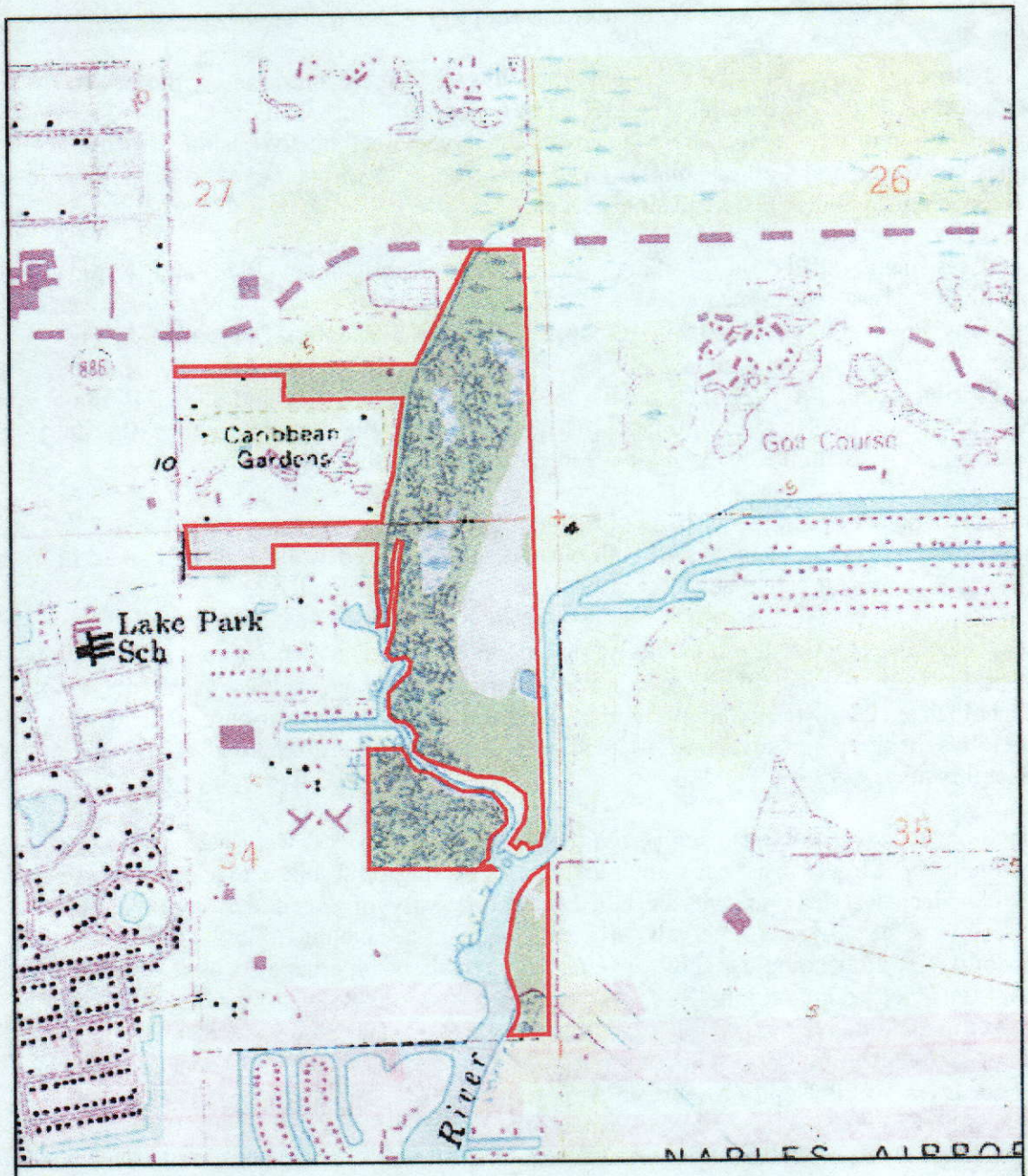

Figure 1. Map of the Gordon River Greenway Parcel area.

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.

Project Setting

The subject parcel is located in parts of Sections 27 and 34 in Township 49S, Range 25E immediately east of the City of Naples in west-central Collier County, Florida (Figure 1). The approximately 153-acre Gordon River Greenway Preserve parcel is an irregular area flanking both sides of the Gordon River north of Naples Bay. The relevant USGS map is Naples North, Fla.

The project parcel is characterized by mangrove wetlands rising to moderately elevated historic slash pine flatwoods (12-15 feet, NGVD). Historically, the parcel was vegetated in slash pine/saw palmetto flatwoods dropping gradually to the flood plain/drainage basin of the Gordon River flowing south into Naples Bay. The area historically contained a dense mix of fresh and brackish water swamp with red mangroves bordering the river and cypress swamp/maple swamp elements fringing the river at the extreme head of drainage. The drainage north of the parcel was part of the area called by the local inhabitants Hole-In-The-Wall Swamp. Historically there was a cut trail running east-west across the slough slightly to the north of the subject parcel allowing early residents to cross this barrier for hunting and to access the interior country north and east of Naples.

Slash pine flatwoods communities are usually situated on high ground flanking Naples Bay/Gordon River. Historically, these communities, which contain a dense, often head-high understory of saw palmetto, were subject to and maintained by periodic forest fires. Fires started either naturally by lightning strikes or by prehistoric Indians or by early settlers to aid hunting or cattle grazing. Among the plants typically found in the slash pine/saw palmetto flatland/prairie environments are: slash pine, saw palmetto, gallberry, shiny lyonia, rusty lyonia, staggerbush, dahoon holly, ground oak, wire grass, broom sedges, shiny blueberry, xyris, and a variety of annual and perennial herbs and wildflowers blooming seasonally.

Bordering these high ground areas and running as north-south linear transverse depressions are deep sloughs and bald cypress swamp, cypress heads and marsh ponds or areas closer to Naples Bay of brackish mangrove swamp marshland in areas subject to saltwater tidal interchange. These areas even with present-day drainage activities contain standing water much of the year and support a rich diversity of plant and animal life. Some of the plant species present in freshwater swamp/sloughs (generally immediately north of the subject parcel) include cordgrasses (*Spartina* spp.) and succulent marsh plants such as pickerelweed (*Pontederia lanceolata*) and arrowhead (*Sagittaria* spp.) and ferns such as swamp fern (*Blechnum serrulatum*), *Thelypteris* and *Osmunda* ferns. The deep open marshes of the area are likely relict burnt cypress solution holes and pond features as evinced by the abundant dead snags and logs of that species. At present, many of these features contain pop ash (*Fraxinus caroliniana*), pond apple (*Annona glabra*), coastal plain willow (*Salix caroliniana*), and buttonbush. All of these environmental zones were heavily exploited by prehistoric Indians, early white settlers, and more recent recreational hunters.

A third environmental community, now largely destroyed in the Naples area was xeric sand pine/live oak/rosemary scrub on a series of linear Pleistocene ridge features

paralleling the coast and extending inland as much as two miles from the coast. A range of these ridge features existed immediately west of the subject parcel in the area of Coastland Mall. A 30-acre area in the northeast portion of the parcel is an elevated flatwoods approaching the elevation of a sandhill. This area contains scrub oak clusters and many of the plants found in the lower zones of a typical sandhill.

Much of the lower, more swampy areas of the parcel are vegetated in a dense, nearly impenetrable brackish mangrove swamp. The dominant plants are mangroves; the red *Rhizophora mangle*, black *Avicennia nitida*, white *Laguncularia racemosa*, and buttonwood, *Conocarpus erecta*. These mangroves together with an understory of low growing halophytic ("salt-loving") succulent plants such as sea rockets, sea lavender, purslane, and salt wort in lowest zones. Because these mangrove areas are near the head of Gordon River, plants such as leather fern *Acrostichum spp.*, black rush, and spartina grasses are frequently found.

There is evidence to suggest that sea level in the area of southwest Florida is on the rise (hence the "drowned" coastline). These are the results of eustatic, worldwide changes. The sea level in the region has fluctuated over the last several thousand years. Scholl and Stuiver believe the "submergence" curve for these changes have been a gradual steady rise, whereas Fairbridge sees the changes as being more erratic with periodic episodes of sea level fluctuation. Recent investigations into sedimentation in the region suggest the latter view may be the more correct one as many of the changes are manifested in alternating marls and shell bar formations suggesting profound fluctuation over at least the last five thousand years of the Holocene (Widmer 1998).

The soil types for the area are fine white to gray sand mantles covering brown hardpan sands. Immokalee fine sand; Hallandale fine sand; Basinger fine sand; Holopaw fine sand; and Durban and Wolfert mucks are among the soil types present. These are generally characterized as fine to poorly drained mucks and sand, generally deposited by wind and water activity through time.

The present condition of the parcel varies from nearly pristine woodland to intense alterations from dredging, excavating, filling and clearing activities. Collier County will manage the parcel as a preserve and remove its exotic plants.

Five Gordon River Subparcels – General Description

For the purpose of this assessment the Gordon River Greenway parcel was divided into five subparcels, using the Gordon River as a natural physical divide and the Golden Gate Canal. All of the parcels contained wetland and upland areas. All parcels have been impacted by modern alterations to a greater or lesser extent.

Subparcel One

At approximately 115 acres, this is the largest of the subparcels and includes all of the Gordon River Greenway parcel area east of the Gordon River and north of the Golden Gate Canal and its juncture with the Gordon River. To the east, the area adjoins the Bear's Paw Country Club and the Golden Gate Canal. Approximately 55-60% of the

parcel is wetland, specifically a brackish mangrove swamp, much of which is tidally flooded. The dominant plants are white, black and red mangroves with a dense understory of leather fern, Spartina and Juncus grasses, and some invasive exotic brazillian pepper. This wetland has changed through time with modern alterations caused by drainage and flooding; and it is likely the wetlands were once a freshwater swamp with cypress, red maple and bay trees being the dominant historic canopy as the wetland was the extreme southern extension of the Hole-In-the-Wall Swamp system.

The upland areas of Subparcel One are low to moderately elevated slash pine/saw palmetto flatwoods with approximately 10-15 acres of sufficient elevation to create a marginally xeric oak scrub area. Scattered through the oak scrub are sandy clearings vegetated in wire grasses and annual and perennial herbs characteristic of elevated pine flatwoods. There are invasive exotics in these areas, chiefly meleleuca, downy rose myrtle, and brazillian pepper. Higher probability zones for archaeological resources are the areas of greatest elevation in close proximity to wetlands. Three transects were selected for testing in this parcel and are enumerated in greater detain in Appendix 2 of this report.

Subparcel Two

This is an approximately 9-acre area south of the Golden Gate Canal and east of Gordon River at the head of the north end of Naples Bay. This area is perhaps the most impacted of the five subparcels with extensive filling along the east bank of the river. Approximately 60% of the parcel has been impacted leaving a narrow area along the eastern edge of the parcel closest to Naples Municipal Airport the least disturbed. The filled and altered areas have regenerated in a mix of re-established native plants and advantageous exotics, among which are Australian pine and Brazilian pepper. The less disturbed western portion of the parcel has thickly coppiced white mangroves and open areas of salt marsh grasses.

The extreme eastern edge of the parcel has topography that rises slightly toward an historic upland/wetland interface. Within this eastern area is an old push pile, the spoil likely originating from the construction of the Naples Airport. This spoil pile contains redeposited archaeological shell refuse and is vegetated by an emerging, diverse tropical hardwood hammock. This feature (MPZ-6) was designated as the Airport Interface Site, 8CR978. The Florida Master Site File form for this site indicates that although the material is redeposited, a site occurs or occurred in the subparcel vicinity.

Subparcel Three

This is an approximately 12-acre parcel in the southwestern quadrant of the Gordon River Greenway lying west of the Gordon River. The parcel is densely vegetated by both upland and wetland plant communities, most of which have been greatly impacted by invasive exotics, chief among which is Brazilian pepper. There are a number of escaped ornamental plants, suggesting proximity to an old nursery or homestead, although no trace of such was observed on the parcel.

Two moderate probability zones (MPZ-7 and MPZ-8) were identified in this subparcel based on two elevated areas which later proved upon shovel testing to be bulldozed spoil piles. The transect crossed the upland portion of the parcel and then followed the upland/wetland interface along the eastern portion of the parcel. The upland portion of the parcel was historically a low-lying slash pine/saw palmetto flatwoods area west of the Gordon River. The understory is now a nearly impenetrable tangle of native and exotic plants. Overall, the parcel was determined to have a low probability for archaeological sites.

Subparcel Four

This is an approximately 5-acre area lying west of the Gordon River and north of the Conservancy of Southwest Florida property. The western edge of the parcel touches Goodlette-Frank Road; the northern edge runs along the Zoo at Naples property, and the eastern edge is the west bank of the Gordon River. The parcel has a very small area of wetlands (lees than an acre) closest to the Gordon River. The rest of the parcel to the west is a moderately elevated to nearly xeric sandy area that has been cleared and is regenerating with a mix of native and exotic plants.

The interface between the uplands/wetlands in the eastern part of the parcel was assigned to be tested as a low to moderate probability zone (MPZ-9). This was tested with shovel tests spaced approximately 10 meters apart. A portion of this area contained a cluster of cabbage palms, but that area tested negatively for archaeological materials. Overall, the parcel had a generally low to moderate probability for archaeological sites.

Subparcel Five

This approximately 5-acre area is located north of the Zoo at Naples, east of Goodlette-Frank Road, south of a strip of businesses lining the south side of Golden Gate Parkway, and west of the Gordon River. A portion of the eastern part of this subparcel once contained the former home of Julius Fleischmann which had been moved there in the early 1960s from its original locale to become the Big Cypress Nature Center, a public facility in operation into the 1980s. That building has since been demolished, and there are no existing structures on the parcel.

Subparcel Five had been cleared over all or most of the upland areas. A very small area closest to the Gordon River is wetland (brackish mangrove swamp). Currently, the parcel is densely vegetated with reemerging slash pine flatwoods and numerous invasive and ornamental exotics that include Brazilian pepper, downy rose myrtle, exotic palms such as Canary Island date palms, and others. Some of these plants are likely escapees from the Naples Zoo parcel to the south. Much of the western portion of the parcel is taken up by the right-of-way footprint of an abandoned paved road that once led to the former Big Cypress Nature Center. The entire upland portion of the parcel was considered a moderate probability zone due to its proximity to Henry Nehrling's historic nursery centered in the Naples Zoo parcel. Shovel testing in the center-western portion of the parcel revealed patchy scatters of fill shell and historic refuse which may be associated with pioneer botanist Henry Nehrling (who began a nursery and gardens on the adjacent parcel in 1921) however, some of the refuse may be dumped trash.

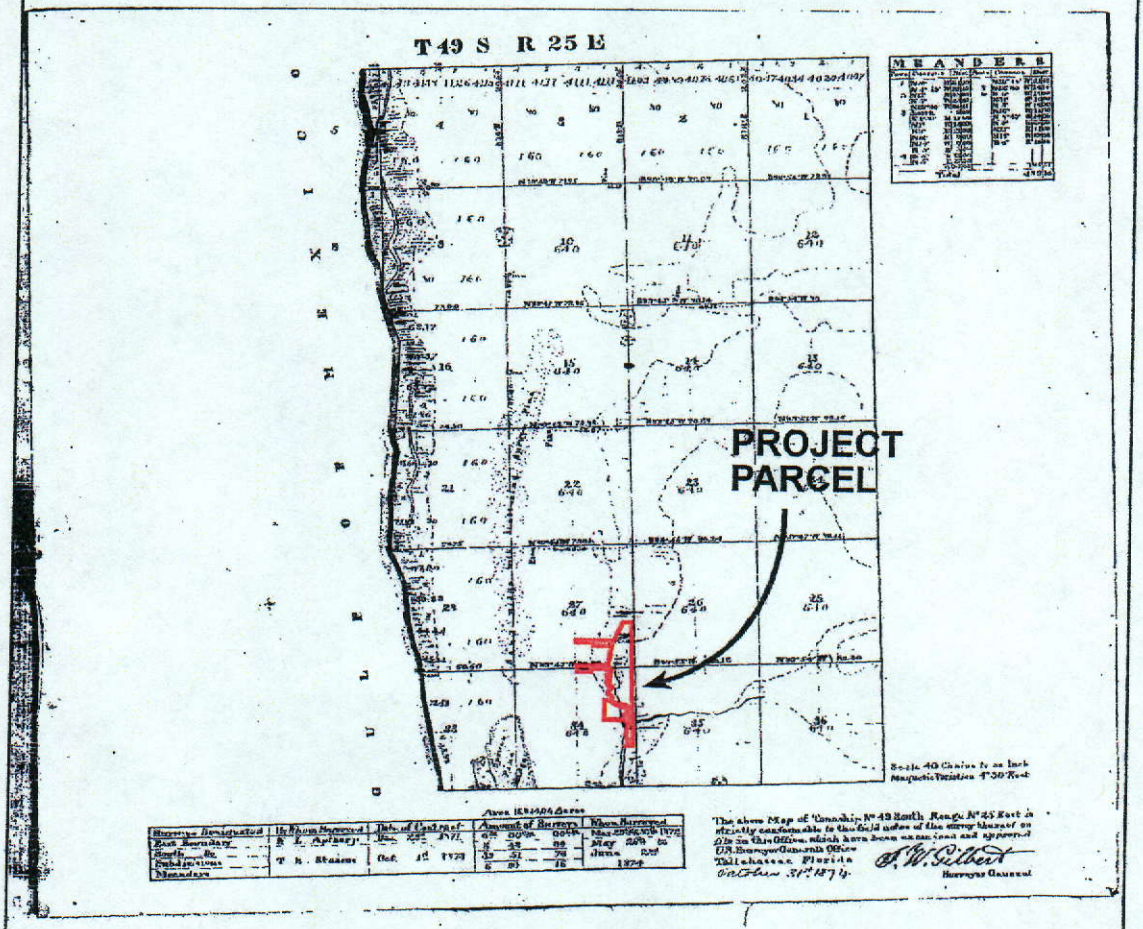

Figure 2. Portion of the 1874 plat map for Township 49S, Range 25E with the modern parcel boundaries superimposed.

N



Figure 3. 1940 black and white aerial photograph of the Gordon River Greenway parcel area with modern parcel boundaries superimposed.

N

PHOTOGRAPHS COURTESY OF
COLLIER COUNTY SOIL AND WATER
CONSERVATION SYSTEM

0	1/4	1/2	1 Mile approx.
0	.4	.8	1.6 Km. approx.

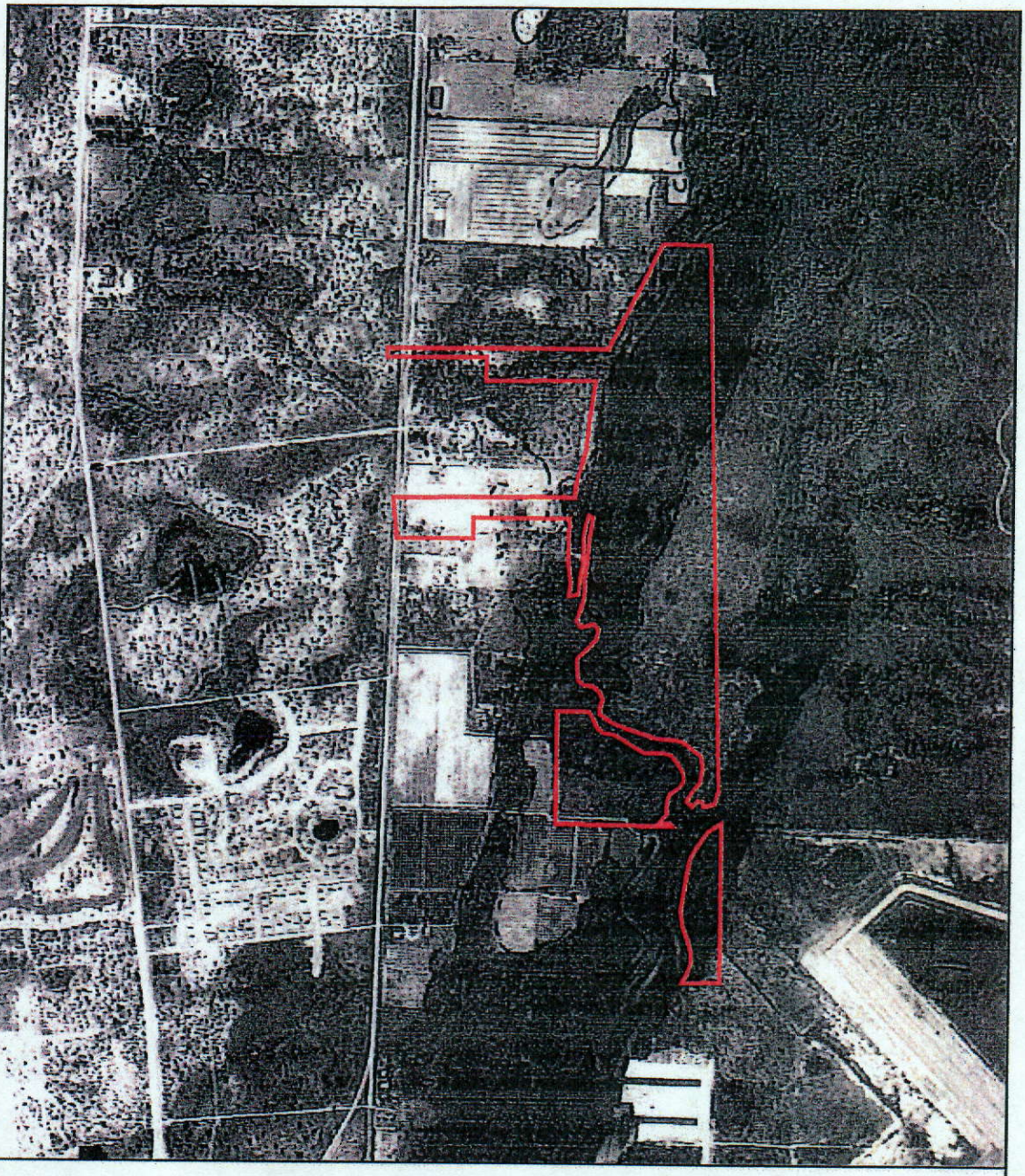

Figure 4. 1952 black and white aerial photograph of the Gordon River Greenway Parcel area with modern parcel boundaries superimposed.

N

PHOTOGRAPHS COURTESY OF
COLLIER COUNTY SOIL AND WATER
CONSERVATION SERVICE

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.

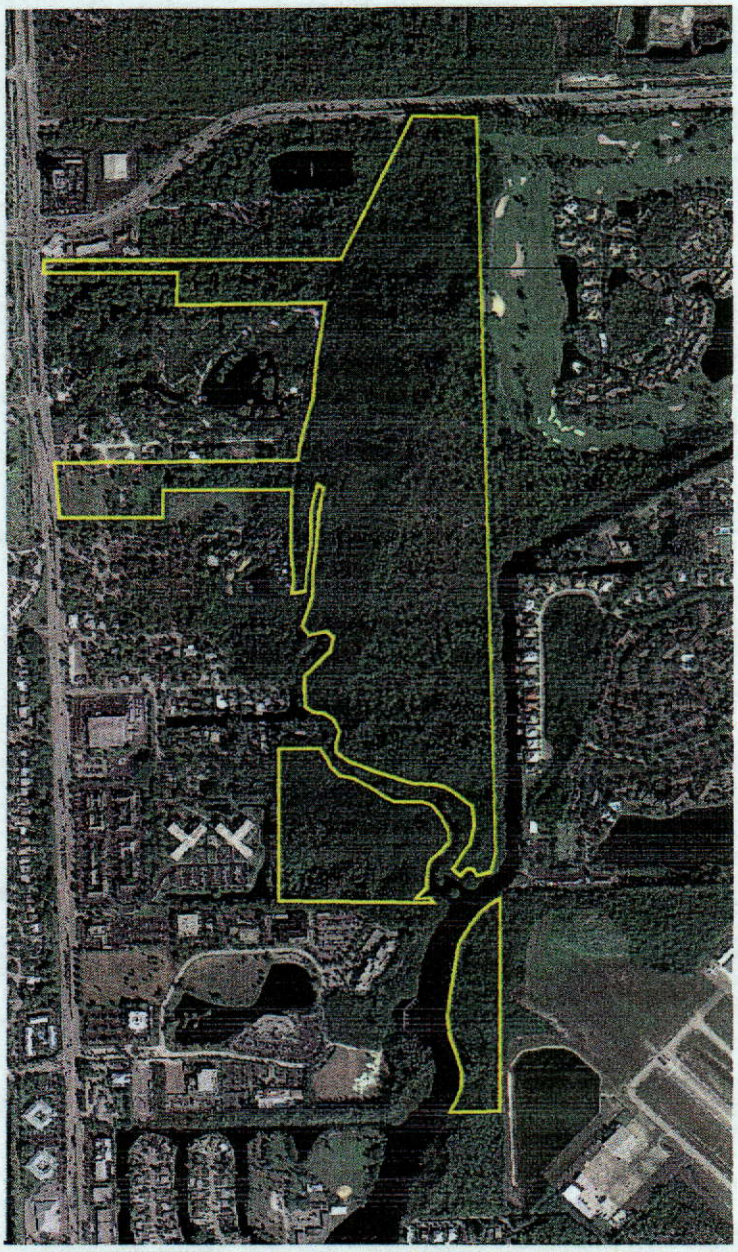

Figure 5. 2004 color aerial orthophotograph of the Gordon River Greenway Preserve parcel.

N

0 1/8 1/4 1/2 Mile approx.
0 .2 .4 .8 Km. approx.

SOIL SURVEY OF COLLIER COUNTY AREA, FLORIDA

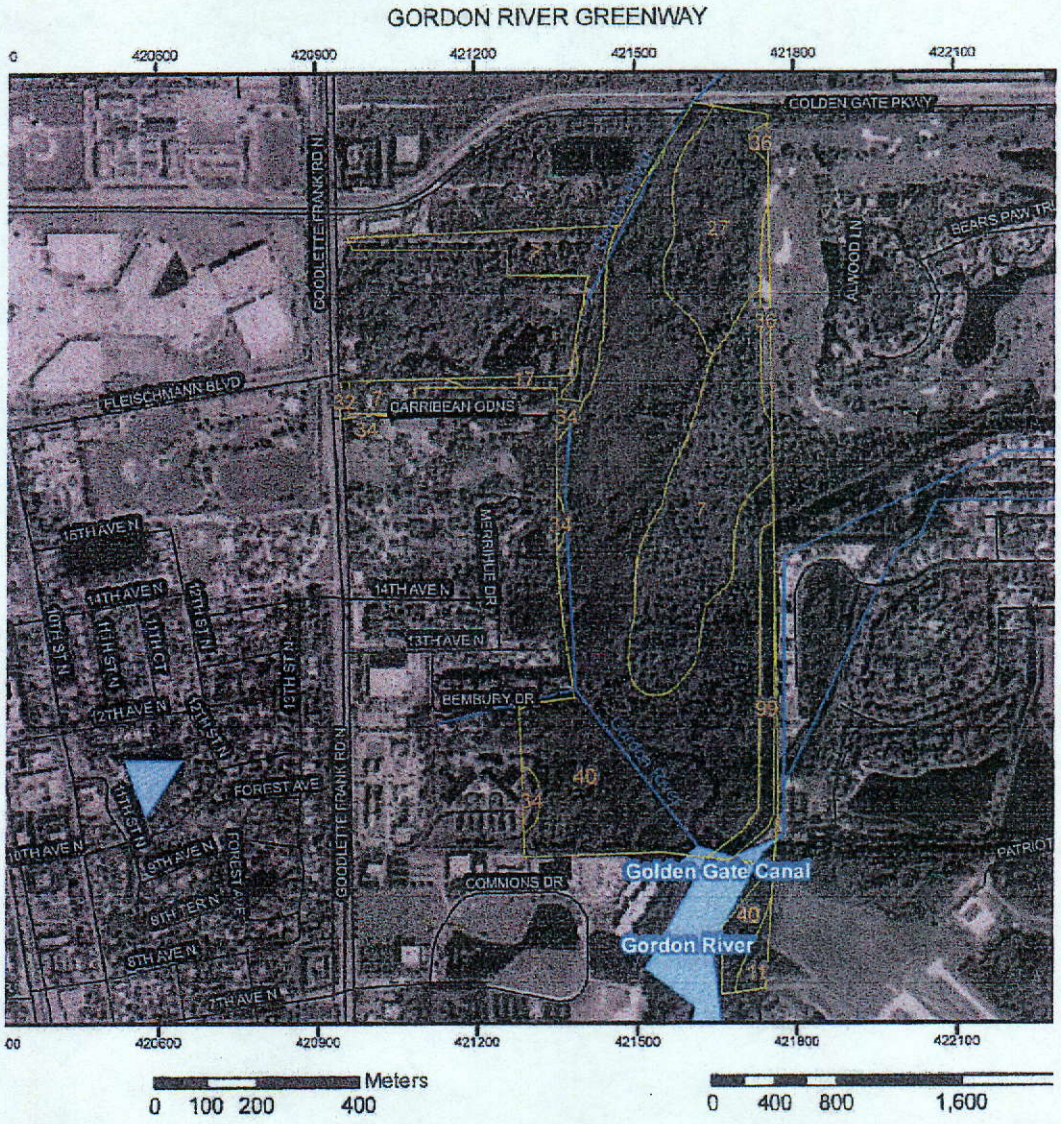

Figure 6. Soil map courtesy of the USDA web soil survey showing soil types found in the Gordon River Greenway Parcel.

N

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
7	Immokalee fine sand	38.6	24.4
11	Hallandale fine sand	1.5	0.9
17	Basinger fine sand	1.4	0.9
27	Holopaw fine sand	17.3	10.9
32	Urban land	0.3	0.2
34	Urban land-Immokalee-Oldsmar, limestone substratum, complex	1.9	1.2
36	Udorthents, shaped	2.2	1.4
40	Durbin and Wulfert mucks, frequently flooded	90.2	56.9
99	Water	5.1	3.2



Figure 7. View west at dense brackish mangrove swamp in the northern portion of the Subparcel One of the Gordon River Greenway. This area is regarded as a low probability zone for archaeological sites.



Figure 8. View south at Moderate Probability Zone 3 in the Subparcel One of Gordon River Greenway. This MPZ was a slightly elevated area of high canopy scrub oaks surrounded by xeric pine/oak scrub flatwoods.



Figure 9. View of Shovel Test 28 in MPZ-7, Subparcel Three.



Figure 10. View north at west end of Subparcel Four in area of formerly-cleared field with emerging oak scrub.

Previous Research

Southwest Florida has been a focus of archaeological investigations since the 1880s, although much of the early work was directed toward the recovery of museum quality artifacts rather than understanding cultural processes. Griffin (1988:48-50) discussed some of the very early references to archaeological sites in South Florida. He noted that these early reports were mostly casual observations, and few appear to refer to southwest Florida, but rather refer to southeast Florida and Key West.

Kenworthy's (1883) informal report on shell mounds and ancient canals was one of the first reports on southwest Florida archaeological sites. At about the same time as Kenworthy's investigations, Simons (1884) gave a narrative account of some of the very large coastal shell middens, and Douglass (1885) provided further information about prehistoric canals (although he did not accept that they were prehistoric). One account described a canal near Gordon's Pass that is probably the Naples Canal (8CR59), and another further north may be the Pineland Canal. Douglass' diaries record excavations of a post-contact era site (8CR41) on Horrs Island, as evidenced by the presence of European artifacts (Griffin, 1988:50-51). Douglass visited Lostman's River and other areas in the Ten Thousand Island area including Horrs Island (1890).

In 1895 Durnford reported that cordage and other artifacts were recovered from a mangrove muck pond on Marco Island (8CR49). The material was shown to Cushing, who mounted a major project to recover more material from the site. Cushing (1897) reported recovering wood and other perishable artifacts from the muck pond on Marco Island, adjacent to a large shell works and midden village site. Publication of illustrations of the spectacular finds generated a great deal of subsequent interest. Wells M. Sawyer, a young artist accompanying the expedition, produced an excellent and presumably accurate contour map for the entire Key Marco Shell Midden. This map is valuable to present-day efforts in understanding many of the now obliterated features and interpreting (reconstructing) the "architecture" of the shell midden. Widmer (1983) notes that Cushing also focused attention on the nonagricultural chiefdom level of social organization supported by the rich estuary and marine resources, although his anthropological observations have remained overshadowed by the wealth of artifacts.

Moore (1900, 1905, 1907) investigated a number of sites along the Collier/Lee County coast, apparently attempting to find material comparable to Cushing's finds. Although Moore provided information about site locations and general contents, most of his work was extremely crude and uncontrolled, by both contemporary archaeological standards, and by modern standards.

The first attempt to systematically survey and investigate archaeological sites was initiated by Ales Hrdlička, who visited a number of sites along the coast and tidal mangrove estuaries in 1918, focusing on the Ten Thousand Island region (Hrdlička 1922). Hrdlička noted that southwest Florida was a distinct region within south Florida and made an attempt to type sites by function.

Matthew Stirling's (1931, 1933) excavation of a burial mound on Horrs Island represents one of the first controlled excavations in Collier/Lee Counties (although he attempted stratigraphic control, Cushing had little success in his wet site excavation). The site was named the Blue Hill Mound, but it is not recorded under that name in the FMSF (either as a primary or secondary name), so it is unclear exactly which site he excavated, although it was probably site 8CR41 (McMichaels, 1982). These reports by Stirling are preliminary, and apparently neither a final report nor a skeletal analysis has been published.

John M. Goggin was the first to define a south Florida cultural area (Glades Area), and describe south Florida ceramics (Glades ware), establishing a basis for later archaeological work. He published an analysis of the ceramic sequence in south Florida (Goggin, 1939, 1940). In later reports (Goggin, 1947, 1949a, 1949b), he formulated a basic framework of cultural areas and chronologies that is still current (although modifications with additional data have been made, see further discussion below). Goggin (1949b) summarized much of this information in an unpublished manuscript, which Griffin (1988) thoroughly described.

In passing, one unfortunate aspect of Goggin's work was a dependence on informant information for location of sites (especially interior sites) and he had a real concern that existing sites would be looted. This concern resulted in his either deliberately or incidentally reporting vague locational data for many sites. Some of these sites have never been satisfactorily relocated, although a few have undoubtedly been re-recorded by later investigators.

For several decades, much of the subsequent archaeological investigations in the region took place in Lee and Charlotte Counties, especially in the Cape Haze, Charlotte Harbor and Pine Island areas. It is rumored that Goggin had a "gentleman's agreement" with many of the other leading practicing Florida archaeologists of the time that the South Florida area was his exclusive province to investigate. If this rumor is correct, it might explain the neglect shown the southwest Florida area in the archaeological arena from the end of World War II to Goggin's death in 1964.

In 1956, Sears reported on a large village and mound complex at the mouth of Turner River on Chokoloskee Bay south of Marco Island, and in 1967 he reported on the results of a survey of the Cape Coral area (Sears, 1956, 1957). Laxson (1966) reported on excavations at Turner River Jungle Garden site, which is upriver from the Turner River site, although these have been confused in recent accounts.

Van Beck and Van Beck (1965) excavated three small test pits on Marco Island (at the Marco midden, 8CR48) associated with the Cushing site (8CR49). The resulting publication of this work was some of the first reported scientific archaeological work to come from the southwest Florida area in nearly twenty years (Van Beck and Van Beck, 1965).

In 1967 through 1969, Marco Island was extensively surveyed and a few sites were tested through excavation by Cockrell, Morrell, and others (Morrell, 1969). No complete site

report was ever published, although an unpublished and incomplete manuscript is available. Some of these sites were discussed in Cockrell's master's thesis (1970). Widmer performed a survey of Big Key, John Stevens Creek, Barfield Bay, Blue Hill Bay, and Collier Bay, which are proximal to Marco Island (Widmer, 1974). Widmer eventually utilized his southwest coast experience to write a doctoral dissertation on the Calusa that not only remains the definitive work on that group, but also explored the relationship between subsistence adaptation and cultural evolution (Widmer, 1983).

In Lee County, Arlene Fradkin and other investigators from the University of Florida began an ongoing involvement with the Pine Island Sound/Sanibel Island area in the 1970s. Her first investigations were at the Wightman site on northern Sanibel Island (Fradkin, 1976).

Several archaeologists excavated at Horrs Island in the 1980s. McMichaels (1982) reviewed sites on Horrs Island in a Master's thesis. In 1983, Marquardt began a series of investigations at Josslyn Key, Useppa Island, Pineland, Buck Key, Galt Island in Lee County, and at Big Mound Key in Charlotte County (Marquardt, 1984, 1987, 1988, 1992). Marquardt and Russo have investigated Horrs Island in Collier County. A number of the large shell midden village sites they excavated appear to be late Archaic, and they expect to document a more elaborate social organization at these sites and larger sedentary or semi-sedentary population sizes than previously known for that period (Russo, 1990, and pers. comm.).

Most of these studies focused on the coastal sites, as have subsequent summaries and discussions. Recent work on the interior has made significant advances in documenting the extent and intensity of inland resources, especially in the Big Cypress and Everglades parks (Ehrenhard *et al.,* 1978, 1979; Ehrenhard and Taylor 1980; Ehrenhard *et al.,* 1980; Taylor and Komara 1983; Taylor, 1984, 1985). Griffin's (1988) synthesis of the Everglades Park data is the defining work on south Florida archaeology to date. Athens (1983) summarized some of the results of the Big Cypress survey, but more analysis of this data resource is needed.

Beriault and colleagues (1981) reported on salvage excavations at Bay West Nursery (8CR200). Their description of the site includes a well known but rare and infrequently documented Early and Middle Archaic use of ponds for cemeteries.

In 1995, Widmer and Story began an ongoing investigation at the Key Marco Midden (Widmer, 1996). In the first season they excavated with the help of graduate students and volunteers. The results of their work have appeared in the *Florida Anthropologist.*

In the last two decades the pressure of development as well as a recognized need for preservation or mitigation of prehistoric sites has led to a number of reports by commercial cultural resource management consultants. While most of these reports are limited in scope due to restriction to a small tract of land, many have produced useful summaries of regional archaeological, as well as insightful analysis of the relationship between site types and location and ecotypes (Almy and Deming 1982, 1986a, 1986b,

1986c, 1987, Austin 1987, Carr and Allerton 1988a, 1988b, Deming and Almy 1987, 1988, Fay and Carr 1990, Fuhrmeister et al. 1990, Martinez 1977, Miller and Fryman 1978, Swift and Carr 1989).

Arthur W. Lee, John Beriault and others in the Southwest Florida Archaeological Society (SWFAS) have recorded and investigated a large number of archaeological sites in Collier and Lee Counties (Lee et al. 1993, 1997, 1998, Beriault 1973, 1982, 1986, 1987, Beriault and Strader, 1984). Many of these reports area about investigations on small interior seasonal sites. In addition, Beriault has provided several unpublished manuscripts as to site types for the Southwest Florida area (Beriault 1972, 1987).

The Archaeological and Historical Conservancy has assessed several large parcels in the Gordon River Greenway area. In 2005-2006, the AHC investigated the 40-acre Goodlette Parcel northwest of the subject parcel locating one prehistoric site, 8CR925, a shell scatter (Beriault 2005; Beriault and Crump 2006). The AHC has recently recorded three historic sites for Section 27 occurring in the Naples Zoo parcel. These include the Henry Nehrling House (8CR974) and the Nehrling Slathouse (8CR975), two sites associated with Dr. Henry Nehrling, pioneer horticulturist. The third site, 8CR972, is the original gatehouse and giftshop from the Caribbean Gardens (Carr et al. 2007).

A May 22, 2007 site search request sent to the Florida Division of Historic Resources (FDHR) indicated there are three previously recorded archaeological sites in Township 49S, Range 25E, Section 27 and no recorded archaeological or historical sites for Township 49S, Range 25E, Section 34. The three recorded archaeological sites occurring in Township 49S, Range 25E, Section 27 (8CR92, 8CR477, and 8CR925) are prehistoric shell scatters and do not occur on or in close proximity to the subject parcel. In addition, three historic sites occurring in Section 27 were documented on the Naples Zoo Parcel (Carr et al. 2007). These are the Henry Nehrling House (8CR974) and the Nehrling Slathouse (8CR975), two sites for structures connected with Dr. Henry Nehrling, pioneer horticulturist and the original gatehouse and gift shop from the Caribbean Gardens/Julius Fleischmann era (8CR972), a still-extant historic structure. As a result of the discovery of buried historic refuse in the northwestern portion of the project parcel, it is possible that site 8CR975 may be associated with that site.

An archival and literature review included, but was not limited to, site forms from the Master Site File in Tallahassee concerning previously recorded sites within a 1.6 kilometer (1.0 mile) radius of the Gordon River Greenway parcel, reports for cultural resource investigations previously conducted within a 1.6 kilometer (1.0 mile) radius of the Gordon River Greenway parcel (Table 1), and USGS maps of the project area. Additionally, black and white and color aerial photographs from the project area were examined. These photographs aid in revealing anthropogenic (of human origin) changes to the topography and vegetative communities, were examined.

Table 1. Literature Review Summary

Previously Recorded Sites:	
In Survey Parcel	0
Within 1.6 km (1.0 mi) of Parcel	12
Previous Investigations:	8
In Survey Parcel	0
Within 1.6 km (1.0 mi) of Parcel	8

Table 1. Literature Review Summary

A review of state site files conducted on July 9, 2007 resulted in the identification of twelve previously recorded sites within 1.6 kilometers (1.0 miles) of the survey parcel (Table 2).

Table 2. Previously Recorded Sites Summary[1]

Site No.	Site Chronology	Site Type	References	In Survey Parcel	Outside of Parcel
8CR63	Prehistoric	Sand mound	Goggin, John		√
8CR64	Prehistoric	Burial mound	Beriault, John G.		√
8CR92	Prehistoric	Midden	Plowden, William		√
8CR133	Prehistoric	Midden	Beriault, John G.		√
8CR147	Historic: 1926-27	Railroad Depot	Evans, Mary K.		√
8CR477	Prehistoric	Midden	Beriault, John G.		√
8CR678	Prehistoric	Midden	Beriault, John G.		√
8CR764	Historic: c. 1920	Building	Schwarz, R. S.		√
8CR765	Historic: c. 1940	Building	Schwarz, R. S.		√
8CR805	Prehistoric: Glades	Burial mound	Carr, Robert S.		√
8CR925	Prehistoric: Glades unspecified	Midden	Beriault, John G.		√
8CR978	Prehistoric: Archaic, Glades unspecified	Midden	Beriault, John G.		√

Notes: [1]Based on sites within 1.6 kilometers (1.0 miles) of the survey parcel.

In addition, a review of the state report files conducted on the same date indicated that eight investigations previously conducted within 1.6 kilometers (1.0 miles) of the Gordon River Greenway parcel (Table 3). Again, none of these investigations were within the parcel.

Table 3. Previous Investigations[1]

Survey No.	Date	Author	Title	In Parcel	Out of Parcel
1108	1986	Florida Preservation Services	*Historical/Architectural Survey of Collier County (unpub. manuscript)*	✓	
4575	1986	Browning, William	*Addition of Two (2) Lanes to S.R. 90/U.S. 41 from 5th Ave. to Airport Road, Collier County, Florida.*		✓

Table 3. Previous Investigations (Cont.)[1]

Survey No.	Date	Author	Title	In Parcel	Out of Parcel
4087	1994	Estabrook, Richard	Cultural Resource Assessment Survey of Five Proposed Gordon River Bridge Project Alignments in Collier County, Florida.		✓
10086	2000	Beriault, John G.	An Archaeological Survey of the Shadowlawn Parcel, 8CR805, Collier County, Florida.		✓
11961	2005	Beriault, John G.	A Phase One Archaeological Assessment of the Fleischmann Parcel Retention Pond, Collier County, Florida.		✓
11962	2005	Beriault, John G.	A Phase One Archaeological Assessment of the Fleischmann Parcel, Collier County, Florida.		✓
14264	2007	Beriault, John G. et al.	A Phase Two Archaeological Assessment of the Luckey Lane Site, 8CR925, Fleischmann Parcel, Collier County Florida.		✓

Notes: [1]Based on sites within 1.6 kilometers (1.0 miles) of the survey parcel.

Cultural Summary

Stirling was the first to distinguish the indigenous prehistoric cultures of southern Florida in 1936 by defining a Glades cultural area, including all of south Florida (Carr *et al.*, 1994b:9; Milanich, 1994:5-6). Griffin (1988) pointed out that this was not formulated as a strict cultural area, but it was rather a geographic region with some common cultural traits. Kroeber (1939), in a review of North American prehistory, utilized a slightly different term, the "South Florida Area," basing his definition on both environmental and cultural factors. Subsequently Goggin delineated more particular boundaries for southern Florida and divided the region into three sub-areas: "Okeechobee" around Lake Okeechobee, "Tekesta" for southeast Florida and the Florida Keys, and "Calusa" for Southwest Florida (Carr *et al.*, 1994b:10; Goggin, 1947:114-127).

Following Goggin's study, subsequent researchers have refined or altered the cultural distinctions attributed to southern Florida's prehistoric populations. There has been criticism that Goggin's names and definitions were based on historic accounts of the main (proto) historic groups found in the respective regions and not on the archaeological evidence of spatial, temporal, and cultural differences (Sears, 1966; Griffin, 1974; Carr and Beriault, 1984; Griffin, 1988). Griffin, in particular, questioned the distinctions. He believed that South Florida cultures varied only by local environmental conditions and ceramic exchange rates. Griffin believed the inhabitants of prehistoric southern Florida were mainly dwelling on the coast and that the interior was nearly uninhabited and under-utilized. Griffin designated the entire southern Florida region as the "Circum-Glades" area (Eck, 1997:5; Griffin, 1974:342-346). This new designation for the area was furthered by a widely circulated book on Florida archaeology by Milanich and Fairbanks (1980). Griffin later (1988) retreated to some extent from his earlier position as further research (particularly by Ehrenhard, Carr, Komara, and Taylor in the Big Cypress and Carr in the eastern Everglades in the 1970s and 1980s) showed abundant sites (and concomitant use and habitation) in the interior and Everglades.

Carr and Beriault, in particular, have taken issue with the concept of a Circum-Glades region. Carr's research in the Big Cypress and Everglades and his subsequent analysis demonstrating variation of key cultural markers (particularly in decorated ceramics) formed the basis for this contention. There is abundant evidence for cultural (and probably political or tribal) diversity in the various areas of south Florida. Carr and Beriault particularly noted and defined differences between the lower southwest Florida coast, which they termed the "Ten Thousand Island" region, and the area to the north, which they called the "Caloosahatchee" region. This latter area they believed to be the seat of the historic Calusa chiefdomship, although previous (and some subsequent) researchers have called the entire southwest Florida from Cape Sable to the Cape Haze peninsula (and beyond) in Charlotte County "Calusa."

Griffin, in his definitive 1988 synthesis on Everglades archaeology, attempted to reconcile and refine some of the conflict in the definition of south Florida prehistoric and historic culture areas. As stated by Carr and colleagues (1994b), "the issue...appears in part to be one of trying to determine the significance of regional and temporal variation, rather than whether these differences are real." There is evidence that changes through

time in regional political affiliations or realties makes any model *not* addressing this complex issue two-dimensional. The Calusa hegemony that was in place by the time of the arrival of Europeans may have begun as early as 800 AD in the Ten Thousand Island "district" or area (Griffin, 1988:321; Carr *et al.*, 1994b:12). There is currently ongoing research to further refine present thought as to cultural affiliations in south Florida. It would seem only a matter of time before new directions and emphases provide a more accurate summation of south Florida cultural affinities.

Using the present models, the coastal zones of Collier County and southern Lee County contain three distinct culture areas. Indian Hill on Marco Island lies thirty miles from the projected interface by Carr and Beriault (1984) of the Caloosahatchee area (called the "the 'heartland' of the Calusa," Carr *et al.*, 1994b:12) to the north, and the Ten Thousand Islands area to the south. At a yet undefined point to the east lies the Okeechobee cultural area, but the boundary, if it is a definite, fixed one, is likely to occur in the vicinity of the Immokalee rise forty miles or more to the northeast of Indian Hill. Further work is in progress by Carr to address the issue of where the southwest boundaries of the Okeechobee culture area occur.

Temporal Periods and Adaptations

At the same time that the south Florida archaeological cultural models have evolved over the past 60-plus years, so have the temporal markers or framework on which we base evolution of that culture. Much of this latter effort has resulted from comparisons made between the recovered artifacts from the 100-year period of scientific and *non*scientific excavation and collection by the various individuals and institutions (and others) enumerated in part above. This Floridian effort must be seen against the broader background of archaeological work in eastern North America and the New World as a whole. All of these efforts have been mutually complimentary and certainly not exclusive.

In south Florida, the following periods and adaptations are generally accepted. Part of this chronology involving the later or Formative period is called the Glades sequence in honor of Goggin, the greater part of whose work in defining the ceramic sequence or markers has withstood the test of time and subsequent criticism (Goggin, 1939, 1947, 1949c). From Goggin's day to present, pottery variability in form, substance, and decoration has proven useful for providing time markers, at least during the archaeologically-brief (± 3500 year) period spanning the late Archaic and Formative periods that it was produced. Other artifact types and their variations have, to present, proven somewhat less reliable as absolute indicants of prehistoric age. Radiocarbon dating, a phenomena of the last 30-plus years, provides, within the standard deviation expressed in plus-or-minus years BP (before present), a relatively absolute date for a given sample and provides a yardstick to measure traits or distinctions in provenienced artifacts. Determining and adequately defining what traits we can discern against this absolute is part of the ongoing function of the regional archaeological effort.

The following information is generalized and abbreviated. The dates are approximate; transitions between periods are in reality more gradual that the manner they are expressed for convenience.

Paleo Period (14,000 - 8,500 BP)

During the Paleo Period, Native Americans began moving into the southeastern portion of North America into Florida. Most evidence of their presence in Florida can be reliably dated to about 10,000 BP.

There are no known Paleoindian sites in Collier County. Several are documented from elsewhere in south Florida, including Warm Mineral Springs and Little Salt Springs in Sarasota County (Cockrell and Murphy, 1978; Clausen and Gifford, 1975), Harney Flats in Hillsborough County (Daniel and Wisenbaker, 1987) and the Cutler Fossil Site in Dade County (Carr, 1986).

During this period, the terminal Wisconsian ice age, the climate was probably less extreme, with cooler summers and warmer winters. The climate was also drier, and sea levels were lower (Carbone, 1983; Allerton and Carr 1988a; Griffin, 1988).

One reason that possible Paleo period sites have not been discovered in Collier and Lee Counties is that the shoreline may have been as much as 100 miles further west due to lower sea levels. Drier conditions may have made the interior very inhospitable, and the shallow estuarine and littoral sites that existed were flooded by post-ice age Holocene sea rises.

Any possible interior sites from the Paleo Period may be unrecognizable due to lack of diagnostic artifacts, subsequent reuse of site areas, low population density, and few permanent camps. These and other factors may help explain the absence to date of identifiable Paleo period sites in Collier and Lee Counties.

Archaic Period (8,500 - 2,500 BP)

The Archaic period reflects a post-Pleistocene shift in adaptation marked by an increase in the seasonal exploitation of a broad spectrum of food resources, a more restricted use of territory due to regional specialization, and more semi-sedentary habitation sites. No ceramics are known until the Late Archaic. During the Archaic, regional specializations became more marked, not only with material culture but also with distinct local utilization of local plant and animal resources.

As mentioned above, there is, as yet, no firm evidence of human presence in southwest Florida during the Paleo period. This apparently is also true for the Early Archaic (8500-7000BP), as there is evidence of an environment too arid to support scrub oak, and the presence of shifting wind formed dunes (Watts, 1975; Widmer, 1983). No early Archaic sites are known from southwest Florida (Allerton and Carr, 1988:14).

By about 6500 BP mesic conditions began to spread, although localized xeric conditions continued (and still exist in some areas) through south Florida. Middle Archaic sites

By about 6500 BP mesic conditions began to spread, although localized xeric conditions continued (and still exist in some areas) through south Florida. Middle Archaic sites dating from this time are rare, although the Bay West Nursery site (8CR200) in Collier County and the Ryder Pond site (8LL1850) in Lee County near Bonita Springs provide evidence of occupation, as do several sites in southeast Florida. The Bay West site is a Middle Archaic cypress pond cemetery, associated with a lithic scatter. The Ryder Pond site is a similar mortuary pond site surrounded by pine flatwoods (Carr and Heinz, 1996). Beriault has also recorded several aceramic shell scatters in coastal sand hills (paleo dunes), some of which may date to the Middle Archaic. Griffin (1988) summarizes evidence indicating that despite the rise of available surface water, brackish estuaries and other major modern landscape features had not formed, and population (or repopulation) was still sparse.

During the Archaic period sea levels began to rise at a fairly rapid rate, estimated at 8.3 cm. per 100 years 6000-3000 BP, and 3.5 cm per 100 years afterwards (Scholl *et al.*, 1969), although whether sea levels were steadily rising or oscillating is still unclear (see Griffin 1988; Allerton and Carr, 1990 for recent reviews of the literature). Data is somewhat difficult to sort out as sea level rise was accompanied by both shore regression and transgression in places. As conditions became wetter (and warmer) in the interior, cypress swamps and hardwood sub-tropical forests established themselves by about 5000 BP (Carbone 1983, Delcourt and Delcourt 1981).

By late Middle or early Late Archaic times (4000 years BP) there were significant shell mounds and middens on Horrs Island, Marco Island, and elsewhere in the coastal regions, suggesting that the estuary system had been established and was being utilized to provide the subsistence basis for denser populations and semi-sedentary settlements (Morrell, 1969; Cockrell, 1970). At Useppa Island in Lee County, excavations have provided radiocarbon dates from pre-ceramic shell middens ranging between roughly 4900 BP and 5600 BP, suggesting that the Middle Archaic as well as Late Archaic periods saw a growing dependence on shellfish resources (Milanich *et al.*, 1984). There are aceramic coastal sand hill and interior wetland sites as well, but these have not been demonstrated to be Archaic despite some investigators equating aceramic with preceramic. Radiocarbon dates for these sites would clarify this point.

Allerton and Carr (1988) noted that a number of stratified sites in the wet mangrove and marsh areas of the Everglades, as well as on Horrs Island, contain Archaic preceramic horizons, although it is unclear if aceramic was equated with preceramic. Additional supporting evidence of interior use by Archaic peoples will provide a new dimension to the archaeological understanding of Archaic resource utilization. Allerton and Carr point out that if the wet tree islands were initially used by Archaic people, then at least some of the hardwood hammocks in swamp environments were raised in elevation (with subsequent changes in vegetation) due to human activities. Post-Archaic people extensively utilized these hammocks and continued to advance their development as distinct geomorphic features. This is obviously an area where additional archaeological investigations have a potential to contribute to understanding the interaction of geomorphic and cultural evolution in southwest Florida.

Toward the end of the Archaic there was the introduction of fiber-tempered pottery into the archaeological record, often used as a marker of the Orange Phase, commencing at about 4000 BP, either coincident with or soon after the development of the extensive shell middens. The Late Archaic Orange Phase subsistence strategy is characterized by intensive use of shellfish and marine resources, as well as being marked by an accelerated trend toward regional specializations.

A number of the large shell middens on Marco Island (Cockrell, 1970), Horrs Island (Russo n.d.), Cape Haze (Bullen and Bullen, 1956), and elsewhere date from this period or earlier, as they contain fiber-tempered ceramics, although there are known aceramic (preceramic?) levels below the Orange Phase deposits that may date to the Middle Archaic. These shell middens are usually capped by deposits from later occupations as well.

Formative Stage or Glades Periods (2500 BP - 500 BP)

The Formative or Glades adaptation, based on hunting, fishing, and the harvesting of shellfish and plants, was similar to the Archaic, but was characterized by increasing specializations in gathering strategies and tool-making. Earlier writers have typed this hunter-gatherer society as primitive or "low-level" (Kroeber, 1939). However, there is certainly evidence from the specialization of tools, from the beautifully-executed wood carvings from Key Marco in Collier County and those from Fort Center near Lake Okeechobee (Cushing, 1897; Sears, 1982), and from the historic accounts of the Calusa hegemony, that the south Florida area had an advanced culture that Goggin (1964) has called a "stratified non-agrarian society."

The preceding Late Archaic late Orange phase (also known as the transitional phase) was marked by changes in pottery, and terminated with the relatively rapid replacement of fiber-tempered pottery with sand-tempered, limestone-tempered, and chalky "temperless" pottery. It was also characterized by changes in ceramic style and often by reduction in the size of stone projectile points.

The Formative Stage (beginning about 2500 BP) is divided in south Florida into the Glades Periods sequence. Subsistence adaptation is marked by a narrowing spectrum of resource use, as well as continued trends toward regional diversity and ecological specializations, marked in part by the proliferation of inland resource extraction encampments.

Formative Period cultural evolution eventually led to increased political sophistication, perhaps initially of modest dimensions, but culminating in broad regional political alliances and regulation of materials and goods (*i.e.* resources) between the coast and inland areas (Milanich and Fairbanks, 1980). By protohistoric and contact times the Calusa were the dominant tribal group, gaining broad political influence and at least partial control over much of south Florida as far north as central Brevard County. Historically, the main Calusa village has been regarded as "Calos" on Mound Key in

Estero Bay in Lee County, although 50 to 70 large villages were under direct Calusa control by contact times (Griffin, 1988).

During the Formative Periods, village sites grew to the proportions of large multi-use complexes, particularly along the coast and barrier islands of southwest Florida. Some of the projected intra-site functions of the elements of these complex shellworks were as temples, canals, causeways, temple and platform mounds, courtyards and watercourts. Current research involving the excavating of large contiguous areas of these shell mound complexes is beginning to establish demonstrable uses for the features of these large sites, upon which heretofore were merely speculated (Widmer, 1996).

Tidal estuary rivers and inland hammocks along deep water sloughs, marshes, and permanent ponds were seasonally visited for extraction of natural resources, and are now marked by small to relatively large black dirt middens, some of which may have been semi-permanent hamlets. The pine and cypress flatwoods appear to have supported few sites, although areas around Lake Trafford and other rich interior areas developed substantial sites, including sand mounds, and may be more similar to the Okeechobee cultural area than to the coastal cultures.

In 1992, Dickel and Carr excavated a Deptford Period burial mound (the Oak Knoll Site) in the Bonita Bay Tract north of the Imperial River. Exotic trade items and seventy or more human burials were among the material findings. The resulting conclusions and subsequent surveying and testing of the Bonita Bay Shell works (8LL717) suggest social stratification and complexity may extend further back into the past than the Formative period (Dickel and Carr, 1992).

Coastal sites (shell middens) reflect a predominate dependence on fish and shellfish, wild plant foods and products, and larger inland game. The inland sites show a greater reliance on interior resources, including large, medium and small mammals, turtle, small freshwater fish, alligator, snake, frogs, and, sometimes, freshwater shellfish. Interior and coastal resource exchange can be documented by the consistent finds of moderate amounts of marine shell in many interior middens, as well as interior resources in coastal middens.

The Formative Stage (with a nod to Goggin) has been often termed the Glades cultural tradition. Much of this "tradition" is focused on decorated ceramics, the minority in the archaeological record, although the majority of recovered (rim) sherds are plainware. However, despite this, pottery (and its decorations) is usually utilized as the major temporal marker(s) for fitting sites into a temporal framework. Changes in pottery do not represent mere changes in artistic motifs, but reflect inter- and intra-regional trade contacts and outside cultural influences (possibly through exogamy, shifting of populations, and even the through evolution of a culture through time). Whatever the influences, the Glades tradition is continuous from post-Archaic times to contact times.

Despite the fact that exogamy is likely to have been practiced, traders or other specialists probably moved between major cultural areas in small numbers, and genetic flow probably accompanied cultural exchange, although perhaps not on the same scale. This

may have increased in later times due to use of traditional obligations of kinship and intermarriage to stabilize alliances that were not codified into a formal legal system.

The following table has been modified from several sources, but it is predominantly based on Milanich and Fairbanks (1980), Griffin (1988), and Allerton and Carr (1990). Dates have been rounded somewhat and translated to Before Present (BP). There are some differences of opinion in the dates, particularly about the timing of the Glades Ia and Ib division.

TABLE 1: GLADES CULTURAL SEQUENCE

Glades Ia (2500 BP - 1500 BP)	First appearance of sand tempered plain pottery, but little else to mark a difference and the preceding Late Archaic. Sand tempered plain remains a predominate type throughout the Glades sequence.
Glades Ib (1500 BP - 1250 BP)	First appearance of decorated sand-tempered ceramic (Ft. Drum Incised, Ft. Drum Punctated, Cane Patch Incised, Turner River Punctate), plainware common. Pottery rim grooving and incision decorations become widespread.
Glades IIa (1250 BP - 1100 BP)	First appearance of Key Largo Incised, Sanibel Incised, Miami Incised, and plainware is common. Distinction between ceramics of southeast and southwest Florida becomes apparent. Ten Thousand Island area distinct from Caloosahatchee area. First mound construction- increased social stratification? Population size may have approximated that at contact.
Glades IIb (1100 - 1000 BP)	First appearance of Matecumbe Incised; Key Largo Incised common on east coast, Gordon's Pass Incised common on the west, and plainware common throughout.
Glades IIc (1000 BP - 800 BP)	First appearance of Plantation Pinched, but few decorated wares with a preponderance of plainware (there is some evidence of population reduction- perhaps due to a cataclysmic event). Non-local pottery (*e.g.* St. Johns Plain and Check Stamped, Belle Glade Plain) appears.
Glades IIIa (800 - 600 BP)	First appearance of Surfside Incised, increasing quantities of St. Johns pottery (especially on East Coast), and Belle Glade pottery.

Glades IIIb (600 BP - 500 BP)	Glades Tooled rims appear (rare on West Coast), zoned punctate designs, but general decline in incised decoration. Belle Glade ceramics common on west coast. St. Johns ware present but rare on West Coast, common on East Coast.
Glades IIIc (500 BP - 300 BP)	Continuation of IIIb ceramics, with pronounced flaring of rims and embossing on Glades Tooled ceramics. Mound burial construction less common with intrusive burials into existing mounds, appearance of European goods, plainware common.

By European contact times (the first half of the 16th century), the southwest coast of Florida was maintaining a vigorous, possibly expanding political chiefdom with a broad network of alliances, as well as a rich and ancient cultural tradition without an agricultural base. However, direct conflict with Europeans and, more importantly, exposure to European diseases led to the rapid decline of the Calusa. By the mid 1700s their numbers had greatly diminished. The remnants of this once-powerful tribe may have left south Florida in the 1760s with the Spanish for relocation in Cuba. Others may have become indistinguishable from Spanish Cuban fishermen who worked the great fishing "ranchos" in the Pine Island Sound region catching and salting fish for export to Cuba. Other groups of Native Americans may have fused with the Creek-derived Seminoles.

In the late 1700s, members of the Creek tribe were forced into Florida from Georgia and Alabama. They were later called Seminoles, from the Spanish term "cimmarones." Pressures from colonial (and later) white encroachment on their traditional territories forced them into the Big Cypress and Everglades area by the 1830s. By this time, most of the cultural identity of pre-contact times had been lost, although some of the Calusa subsistence strategies may have been partly adopted by Seminoles. A number of Seminole period sites have been documented on earlier Glades middens. This coincidence may in part reflect the paucity of high land in the interior (Ehrenhard *et al.*, 1978, 1979, 1980; Ehrenhard and Taylor, 1980; Taylor and Komara, 1983; Taylor, 1984, 1985). Older midden sites (particularly those called "black dirt" middens) can be rich agriculturally as well as archaeologically, making these foci for historic Seminole gardens and fruit groves.

Seminole periods in south Florida are divided into I (1820-1860), II (1860-1900) and III (1900-1940) (Ehrenhard *et al.*, 1978). Post-1940 Seminole camps are designated "Late Seminole" in some reports. These designations reflect the different stages of Seminole migration into south Florida, Seminole displacement and active conflict with the expanding American culture, and the eventual refuge by Seminole remnants in Big Cypress and Everglades regions. Military records, and, in particular, several sketch maps by military personnel done in the 1830s and 1840s and the Ives military map of South Florida (1856) shows evidence of investigations at and near "Malco Inlet," "Casimba," "Good Land," and "Cape Romans."

Hole In the Wall Swamp History

The Hole-In-The-Wall Swamp area has been the backdrop for a significant part of the earliest modern history for the Naples area. Much of this history is tied to that of a single family, the Franks, who established residences, farming and ranching activities in the area immediately north of the subject parcel by the 1930s. Eddie Frank Sr., was a successful operator of the first auto repair shop in Naples, ran one of the first hardware stores, was the purported inventor of the Swamp Buggy, an early homemade all-terrain vehicle used for hunting and traversing the back country in South Florida. Mr. Frank and several of his sons lived near the Hole-In-The-Wall Swamp, developing part of the area as two golf courses and golf-course communities by the 1970s. Other families living near the subject parcel were the Smiths and Thurners, both of whom farmed in the general area. Adjacent and to the south of the parcel is an historic garden of introduced tropical plants begun in the early 1900s by botanist Henry Nehrling and expanded in later years by its then-owner, Julius "Junky' Fleischmann under the name Caribbean Gardens and later under Col. Lawrence Tetzlaff and family into Jungle Larry's African Safari.

The area of the Gordon River Greenway saw impacts from dredging, filling and other activities as early as the beginning of the 1920s. At some early date, the creeklet at the head of the Gordon River entering Hole-In-the-Wall Swamp was deepened and channelized to improve drainage. By the late 1940s entrepreneurs such as John Pulling and others were dredging and filling areas along the northwestern edge of Naples Bay. In the early 1960s Gulf American Land Corporation had dredged the Golden Gate Canal feeding the canal into the head of Naples Bay north of the Naples Airport to drain portions of the Golden Gate City/Estates area. The 1970s and 1980s saw the creation of several large golf courses and residential communities such as The Hole In the Wall Golf Course community, Wilderness Country Club, Bear's Paw, and River Reach along or in proximity to portions of the parcel. Recent large developments include Grey Oaks and commercial holdings by the Collier Enterprises, the Barron Collier Companies and others.

Methodology

Prior to conducting fieldwork in the project parcel, relevant archives and literature were reviewed. This included, but was not limited to, studying previous archaeological reports for sites in western Collier County, reviewing information from the Master Site File in Tallahassee concerning nearby sites, and examining USGS maps of the project area. Also, black and white and color aerial photographs from the project area, which could aid in revealing anthropogenic changes to the topography and floral communities, were interpreted.

Research Design

This Phase I cultural resource survey of the Gordon River Greenway Parcel incorporated the use of certain predictive archaeological site models. These models are based on topographic and vegetative attributes that are associated with prehistoric and historic sites in western Collier County. These models postulate that high ground live oak hammocks or scrub oak areas in close proximity to sloughs or wetlands are moderate to high probability zones for prehistoric archaeological sites. The elevational information on the USGS Naples North Quadrangle map for the area also was used. Ten moderate probability zones (MPZs) were identified on the parcel based on higher areas of scrub oak near the wetlands.

A May 22, 2007 site search request sent to the Florida Division of Historic Resources (FDHR) indicated that there are three previously recorded archaeological sites in Township 49S, Range 25E, Section 27 and no recorded archaeological or historical sites for Township 49S, Range 25E, Section 34.

Fieldwork

The parcel area was subdivided into five distinct geographic areas. Each of these areas was investigated by pedestrian survey and subsequent systematic and judgmental shovel testing.

The subject parcel was assessed by pedestrian survey and subsurface testing. A total of 96 shovel tests (50 cm^2) was dug across the parcel. Five transects were placed to sample both low probability and moderate probability zones on the five parcel subdivisions. All shovel tests were excavated to depths of at least 1 meter where possible or to culturally sterile zones. All excavated material was screened through a 1/4" diameter mesh and any material of archaeological significance collected was sent to AHC in Davie for cleaning, analysis, and conservation.

AHC personnel identified possible higher probability zones based on a review of recent and vintage aerial photographs of the parcel followed by ground-truthing each of these areas. Based on field inspections, the "target" was evaluated. Many of the initially identified areas of potential higher probability proved to be recent alterations such as spoil piles or other recent mechanical activities. Others were determined to be natural vegetative/topographic formations with a low probability for archaeological resources.

Three of the five parcels had one or more transects of shovel tests performed in low to moderate probability zones. A total of ten transects were tested on the parcel (Figure 7). These transects were variable as to direction, and their configuration was determined by topography which was often the interfaces of lowland/upland areas across the various parcels. The shovel tests were generally placed at 30-meter (100-foot) intervals along the most of the transects and at 20-meter intervals in Transect Four and Transect Five.

Collections

Twelve field specimen bags (FS1 - 12) of cultural material was recovered from the project parcel. All cultural materials that are not deaccessioned will be transferred to the Collier County Parks Department. All field notes and maps will repose at the AHC facility in Davie.

Informants

Amanda Townsend of the Collier County Public Services Division was contacted for information regarding previous owners of the parcel. Larry Luckey, a former resident of the Gordon's River area in the 1950s, provided information on the general parcel area.

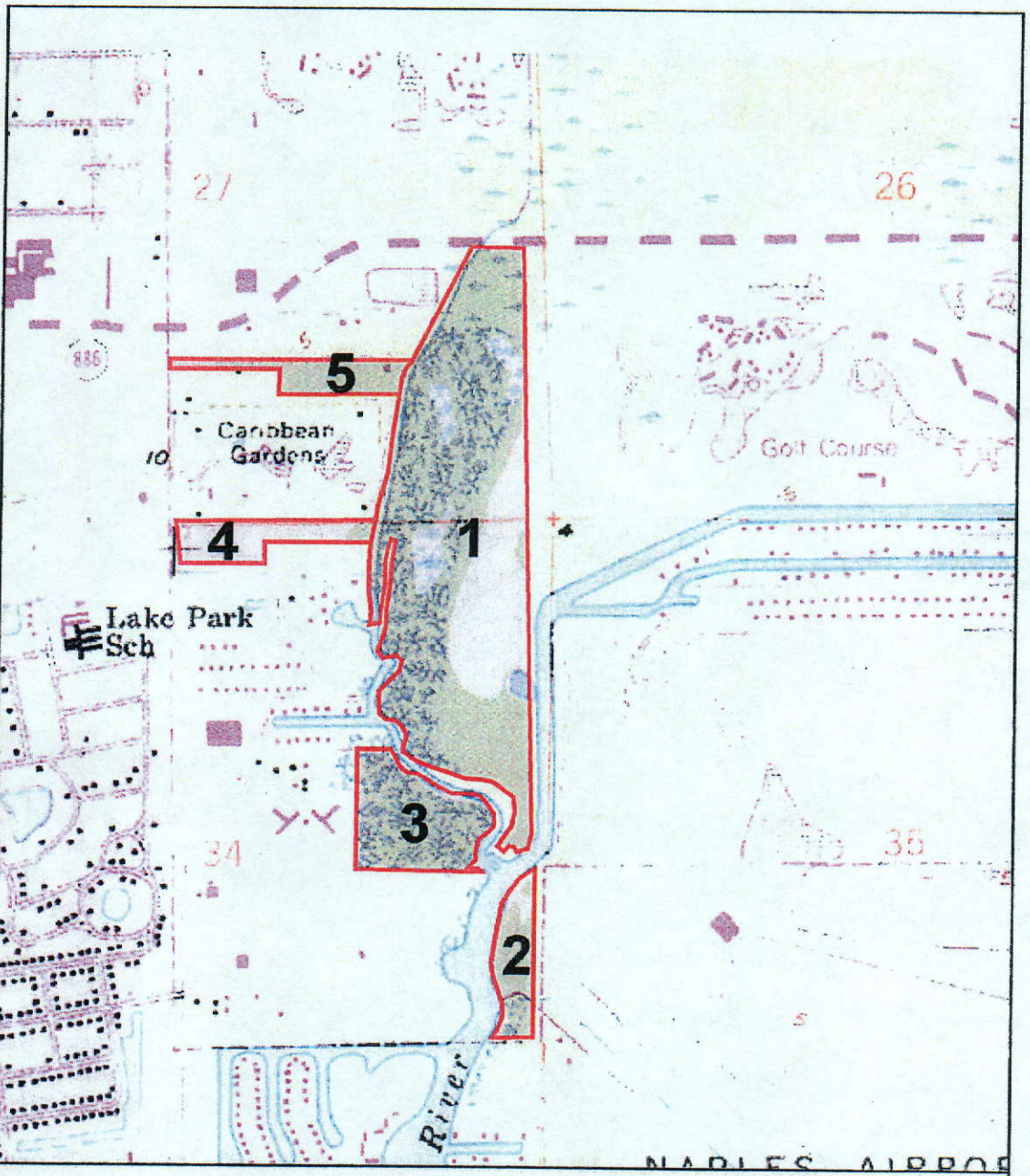

Figure 11. Map of the Gordon River Greenway Parcel showing Subparcels.

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0 1/8 1/4 1/2 Mile approx.
0 .2 .4 .8 Km. approx.

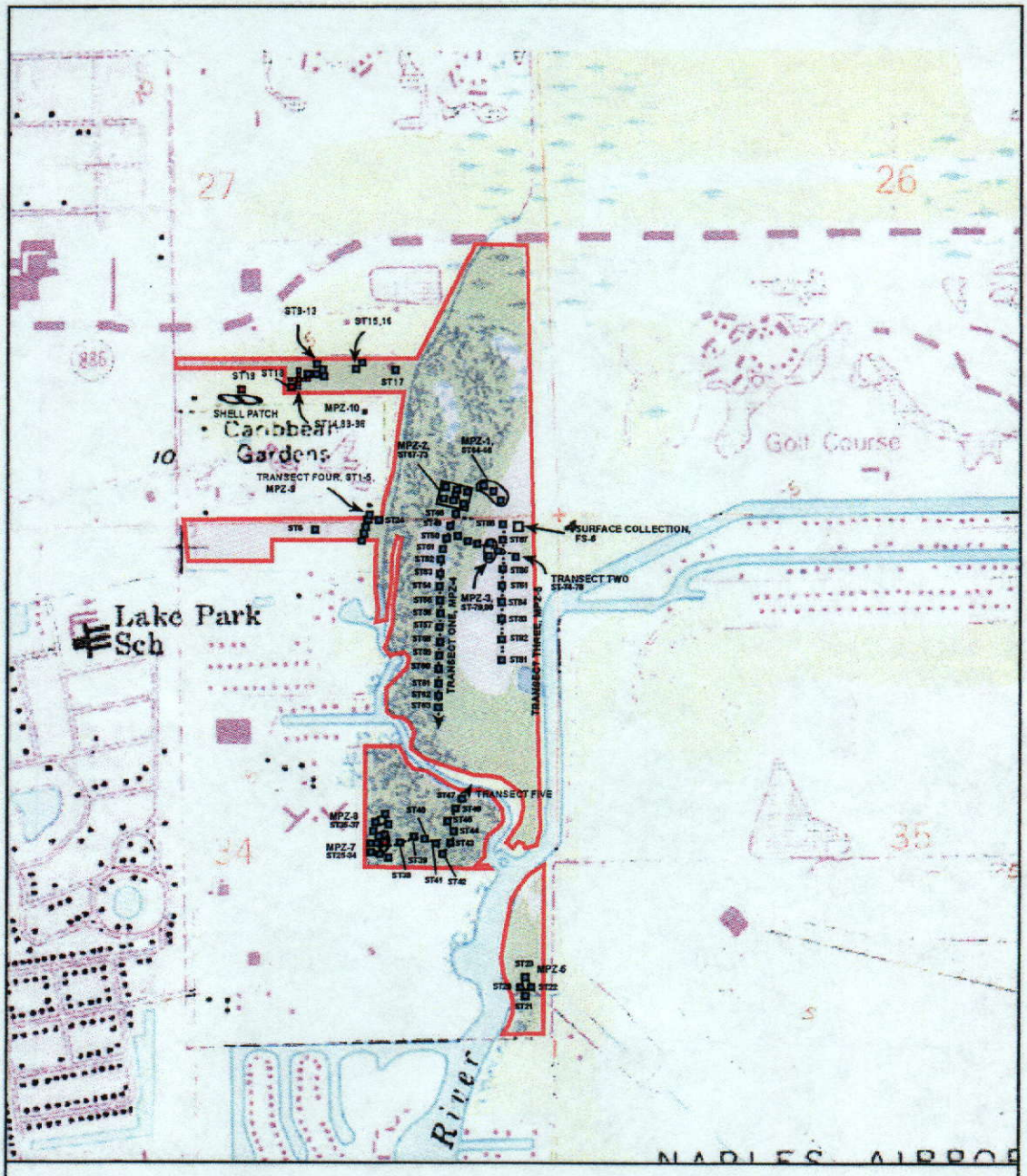

Figure 12. Map of the Gordon River Greenway Parcel showing shovel tests and moderate probability zones.

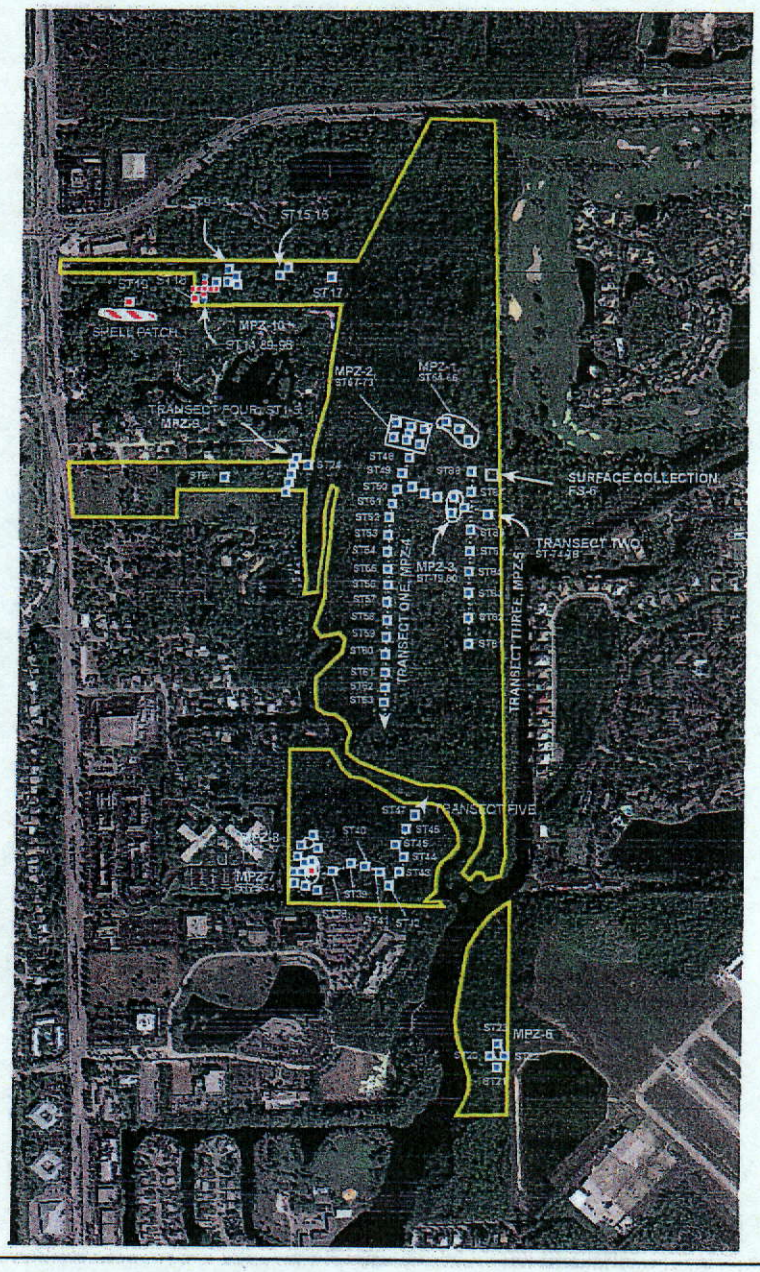

Figure 13. 2004 color aerial orthophotograph of the Gordon River Greenway Preserve parcel showing shovel tests and moderate probability zones.

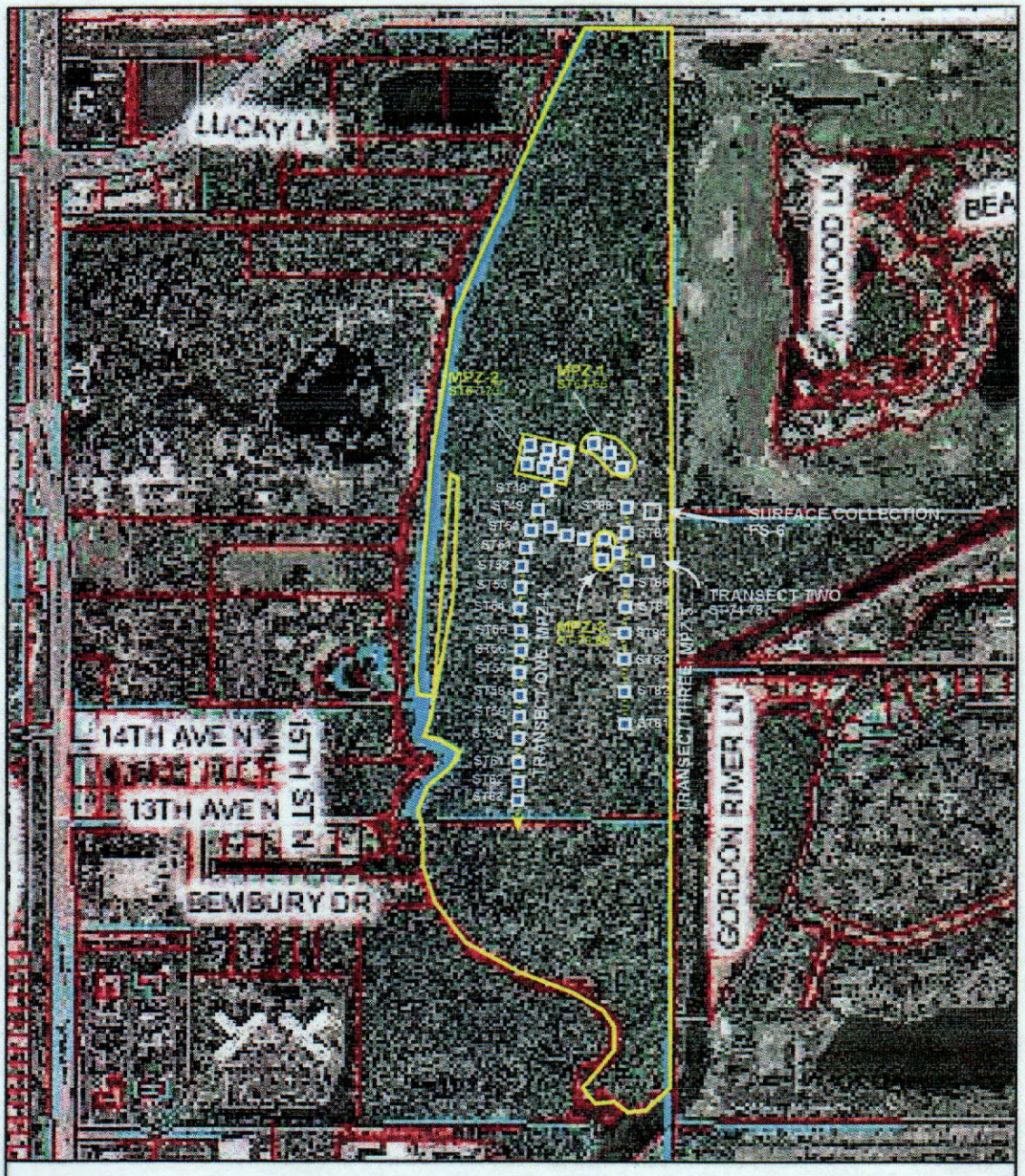

Figure 14. Subparcel One showing location of Moderate Probability Zones (MPZs), shovel tests and transects.

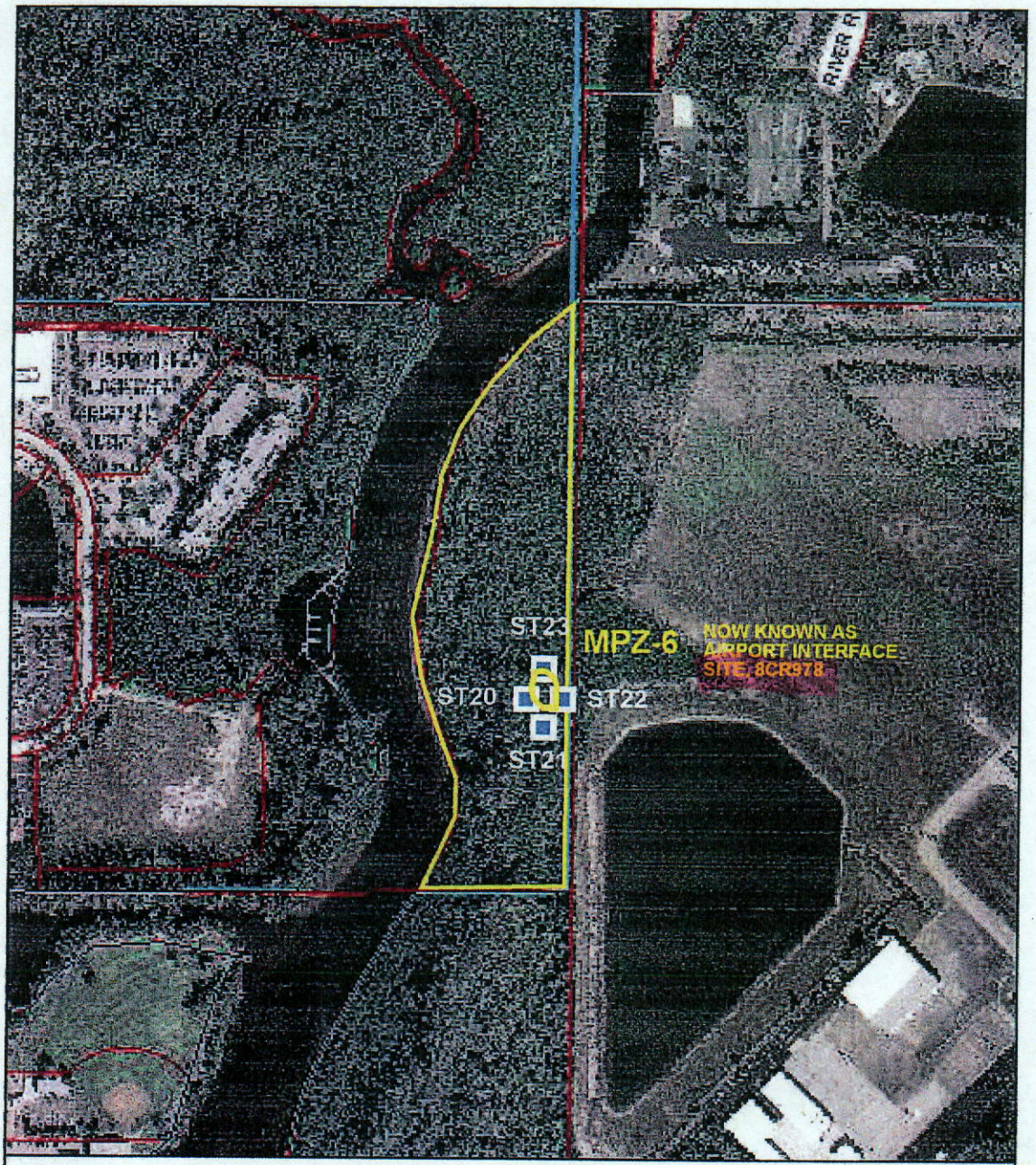

Figure 15. Subparcel Two showing location of Moderate Probability Zones (MPZs) and shovel tests.

N

■ = NEGATIVE SHOVEL TEST

0 330 660 1320 Feet approx.
0 .1 .2 .4 Km. approx.

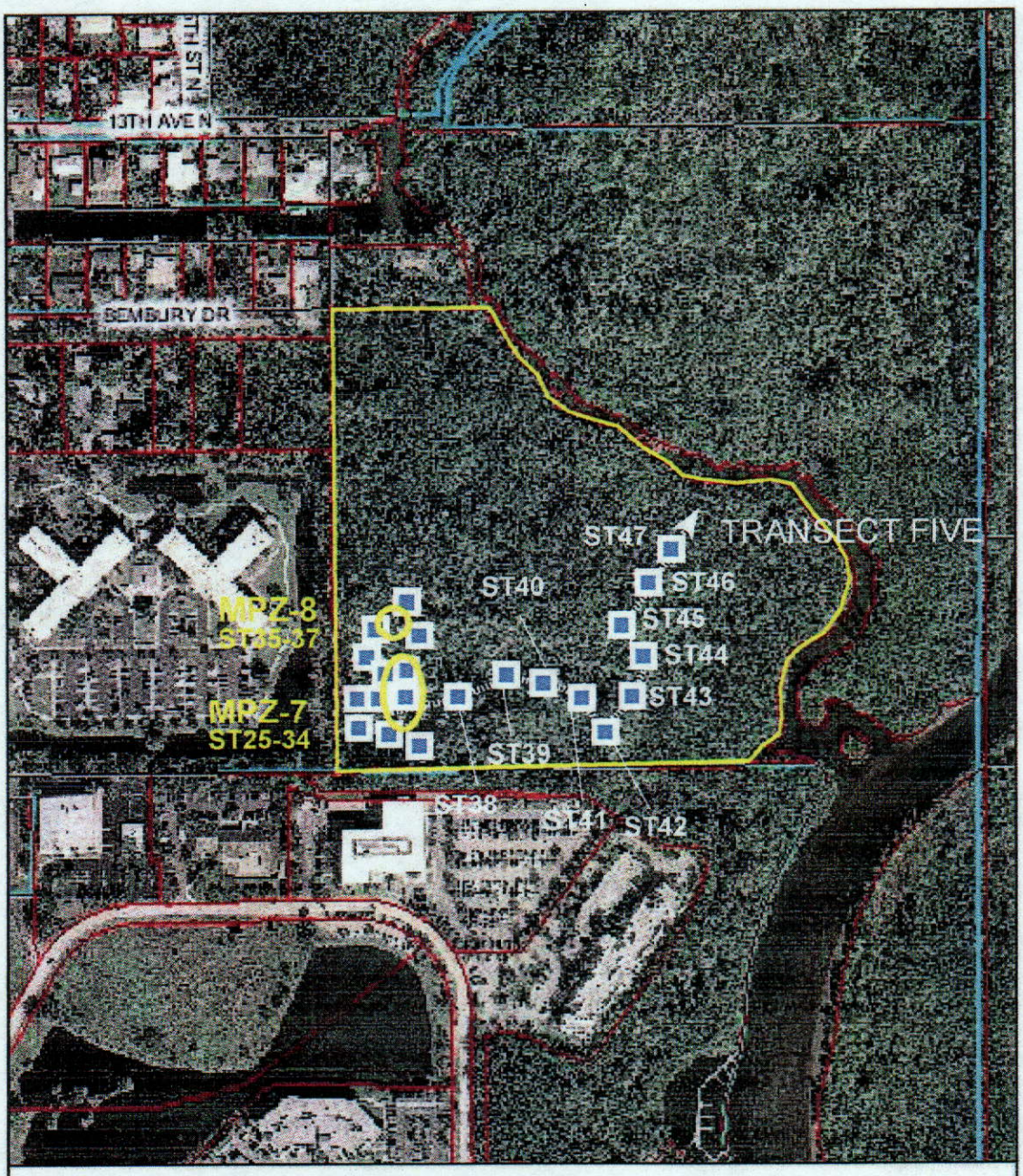

Figure 16. Subparcel Three showing location of Moderate Probability Zones (MPZs), shovel tests and transects.

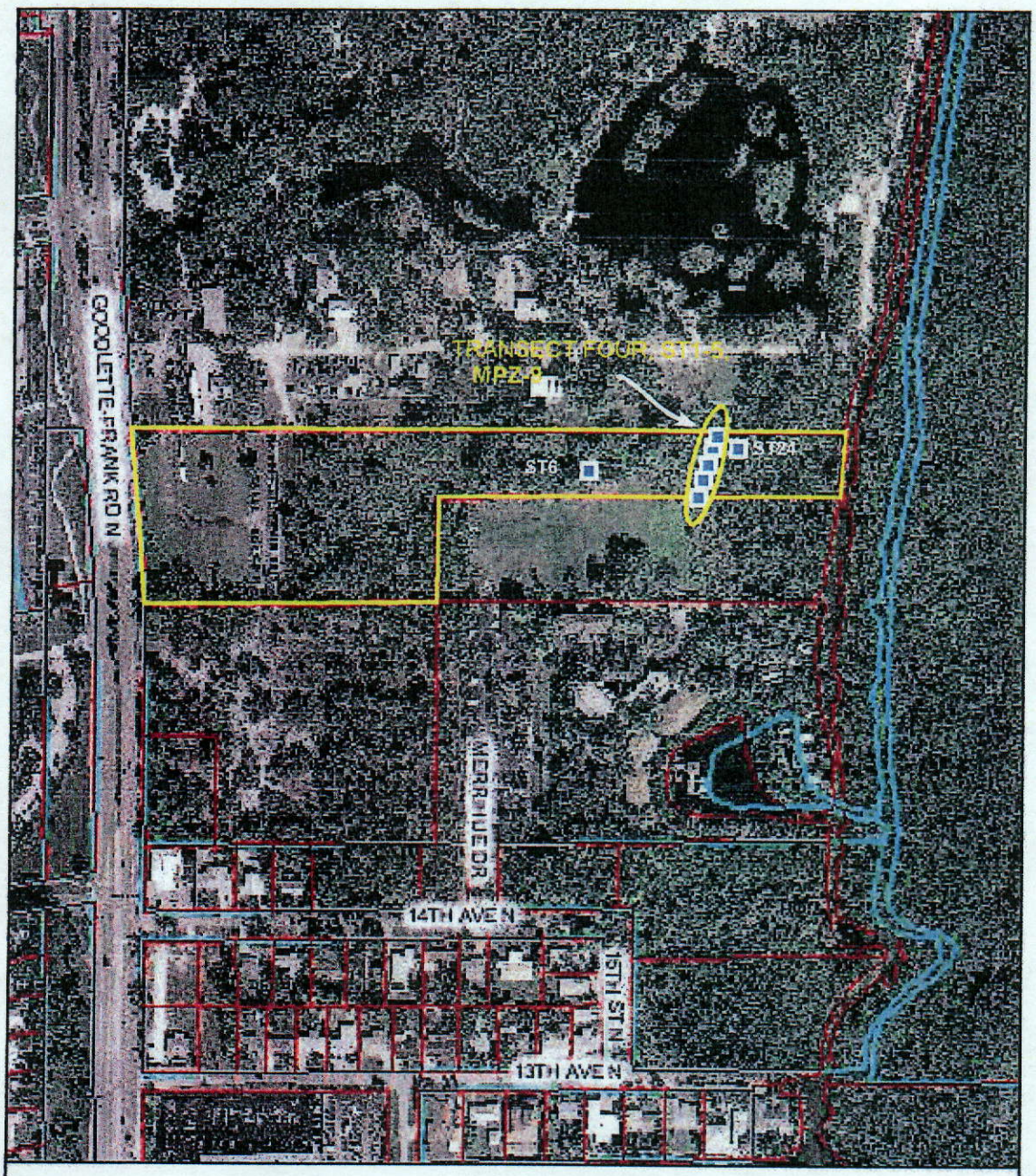

Figure 17. Subparcel Four showing location of Moderate Probability Zones (MPZs), shovel tests and transects.

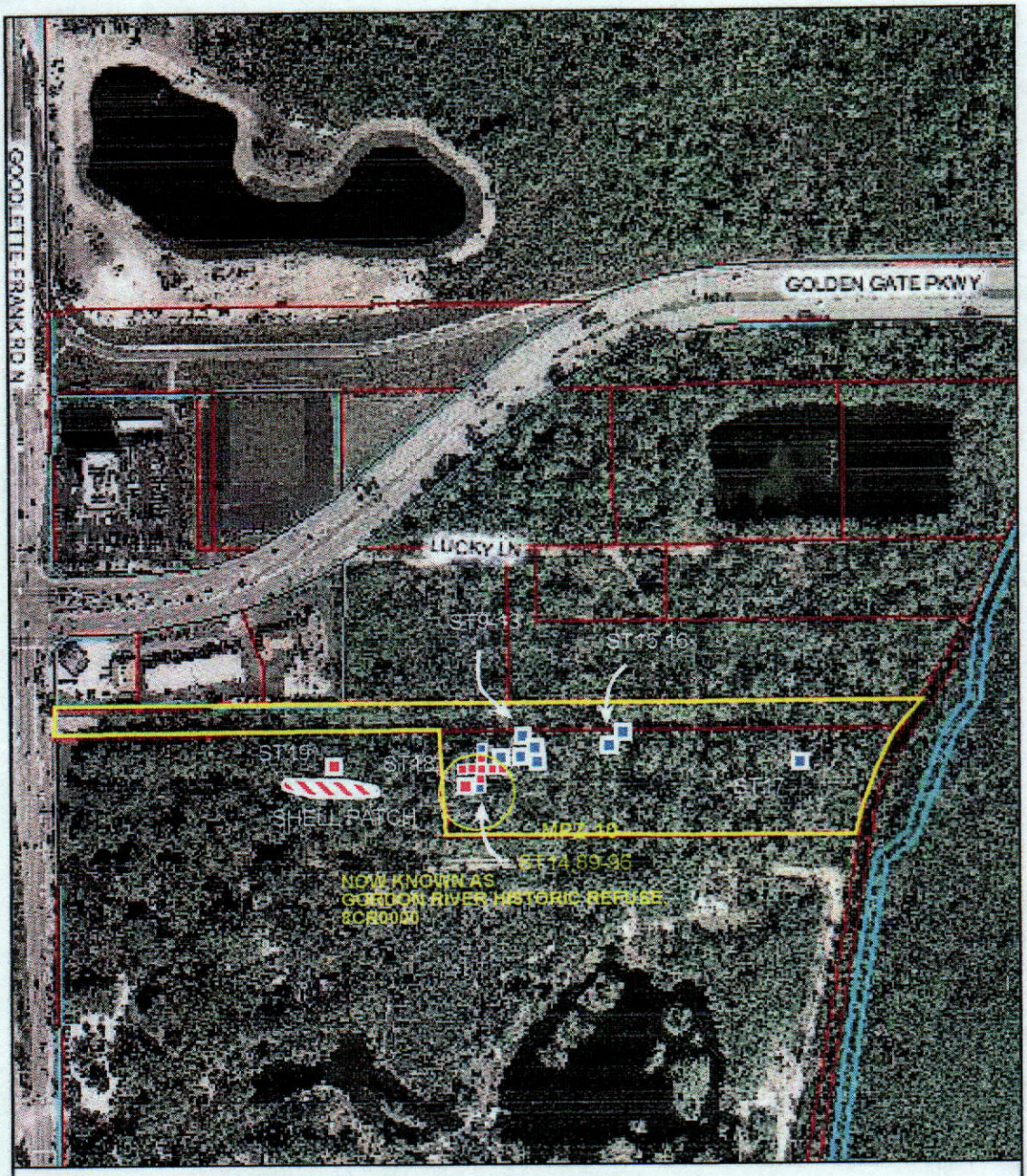

Figure 18. Subparcel Five showing location of Moderate Probability Zones (MPZs) and shovel tests.

N

= POSITIVE SHOVEL TEST
= NEGATIVE SHOVEL TEST

0	330	660	1320 Feet approx.
0	.1	.2	.4 Km. approx.

Summary of Sites

Site Name:	Airport Interface
State Site Number:	8CR978
Environmental Setting:	Brackish salt marsh/ pine flatwoods upland interface
Location:	Township 49S, Range 25E, Section 34
Site Type:	Redeposited shell scatter
Site Function:	Habitation, resource extraction
Description:	The Airport Interface Site, 8CR978, was identified by the surface collection of *Macrocallista* and *Spisula* shell fragments eroding from the root balls of downed cabbage palms which had been pushed into a spoil pile. The pile is located 30 – 50 meters west of the northwestern boundaries of Naples Airport. Six shovel tests were excavated in the area of these findings with negative results. The Naples Airport was constructed during the early years of World War II (circa 1942) as a fighter training base, and the spoil piles may have resulted from this clearing/construction activity. It is likely that the original site location is east of the redeposited refuse, where the historic uplands were situated.
Chronology:	Prehistoric: unknown
Collections:	Shell refuse (FS 1)
Previous Research:	None
Preservation Quality:	Unknown; material has been redeposited from adjoining areas and site is probably destroyed.
Ownership:	Public: Collier County
Significance:	Site is not eligible for listing on the National Register of Historic Places.

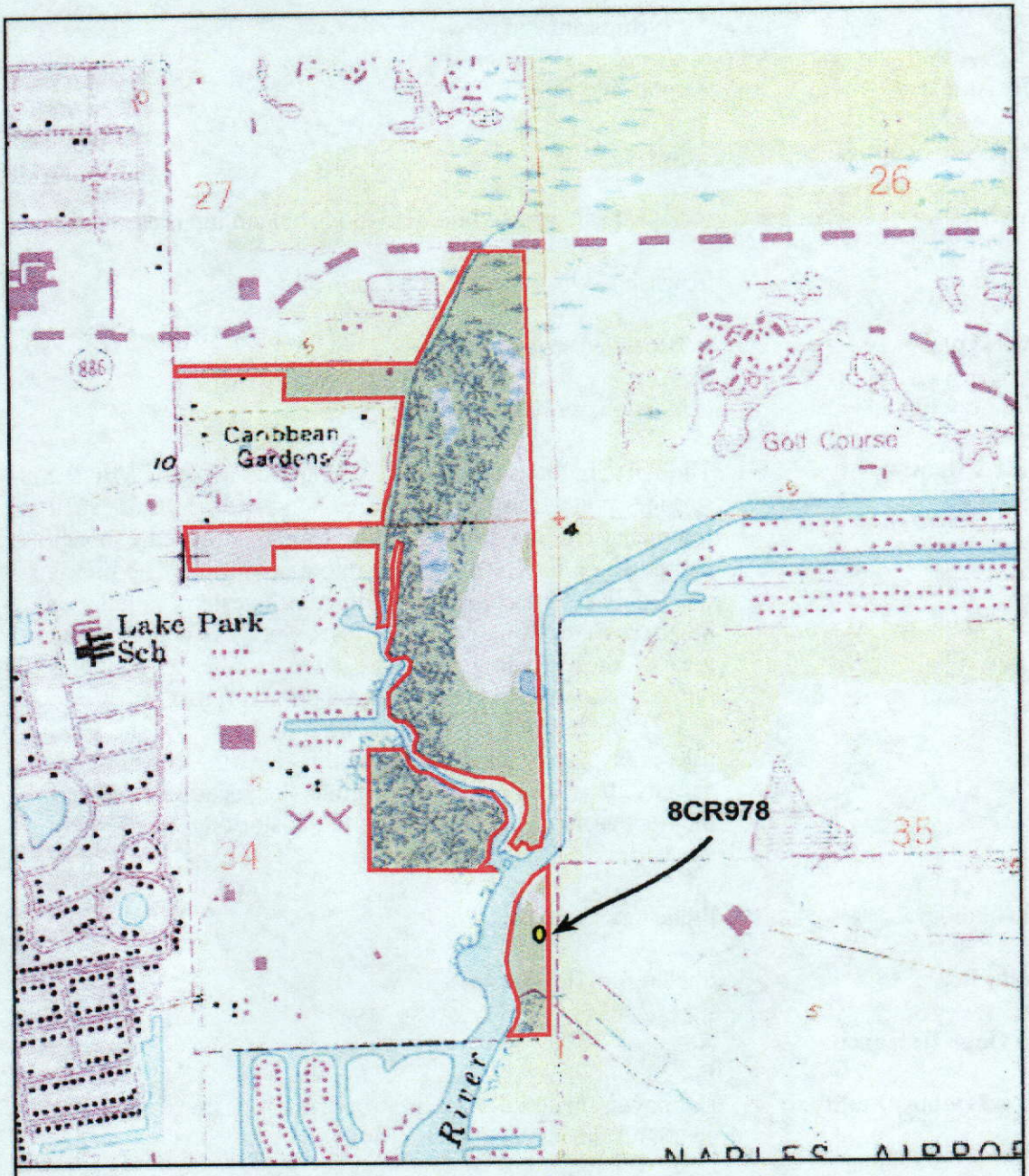

Figure 19. USGS map of the Gordon River Greenway Parcel depicting site 8CR978.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.



Figure 20. View east at CR978 in MPZ-6, Subparcel Two. This is a push pile vegetated in an emerging tropical hammock plant community. Shell refuse was found in the root balls of several downed cabbage palms.



Figure 21. View south at positive Shovel Test 14, CR1063 in Subparcel Five where oyster shell was recovered.

Site Name:	Gordon River Historic Refuse
State Site Number:	8CR1063
Environmental Setting:	Slash pine flatwoods heavily invaded by exotics
Location:	Township 49S, Range 25E, Section 27
Site Type:	Historic refuse dump, possible deposit from Nehrling's Nursery
Site Function:	Habitation, historic nursery operation
Description:	This site lies in a pine flatwoods immediately north of historic site 8CR975, the Nehrling Slathouse. Eight out of sixteen shovel tests were positive for cultural material which included oyster shell, whiteware, bottle glass, other broken glass, lead net weights, and rusted iron. This material extended from depths of 20 cm to as much as 80 cm. The shell ranged from moderately dense to sparse and were found in patchy scatters usually in conjunction with historic to modern refuse through the area. Additionally, areas of surfacial shell refuse were noted along the south border of the parcel within the power line right-of-way. The shell material resembles the shell layering observed at the Nehrling Slathouse Site, 8CR975, which lies approximately 300 feet due south of this area. Several other historic house sites lie off the parcel to the west and northwest. The recovered material is consistent with a historic dump or refuse pile and could be associated with these structures but lies closest to the locale of the Nehrling Slathouse. Some of this deposit may be related to the Nehrling Slathouse, 8CR975, and may be important to the interpretation of the activities of Henry Nehrling, an important pioneer horticulturist.
Chronology:	Historic: Early to mid-20th Century
Collections:	Glass, whiteware, rusty iron fragments, lead net weights, oyster shell (FS 2-4, 7-12)
Previous Research:	Carr et al. 2007

Preservation Quality:	Unknown; material may have been redeposited from adjoining areas
Ownership:	Public: Collier County
Significance:	Site component is of unknown significance. Phase II testing is recommended to determine its significance.

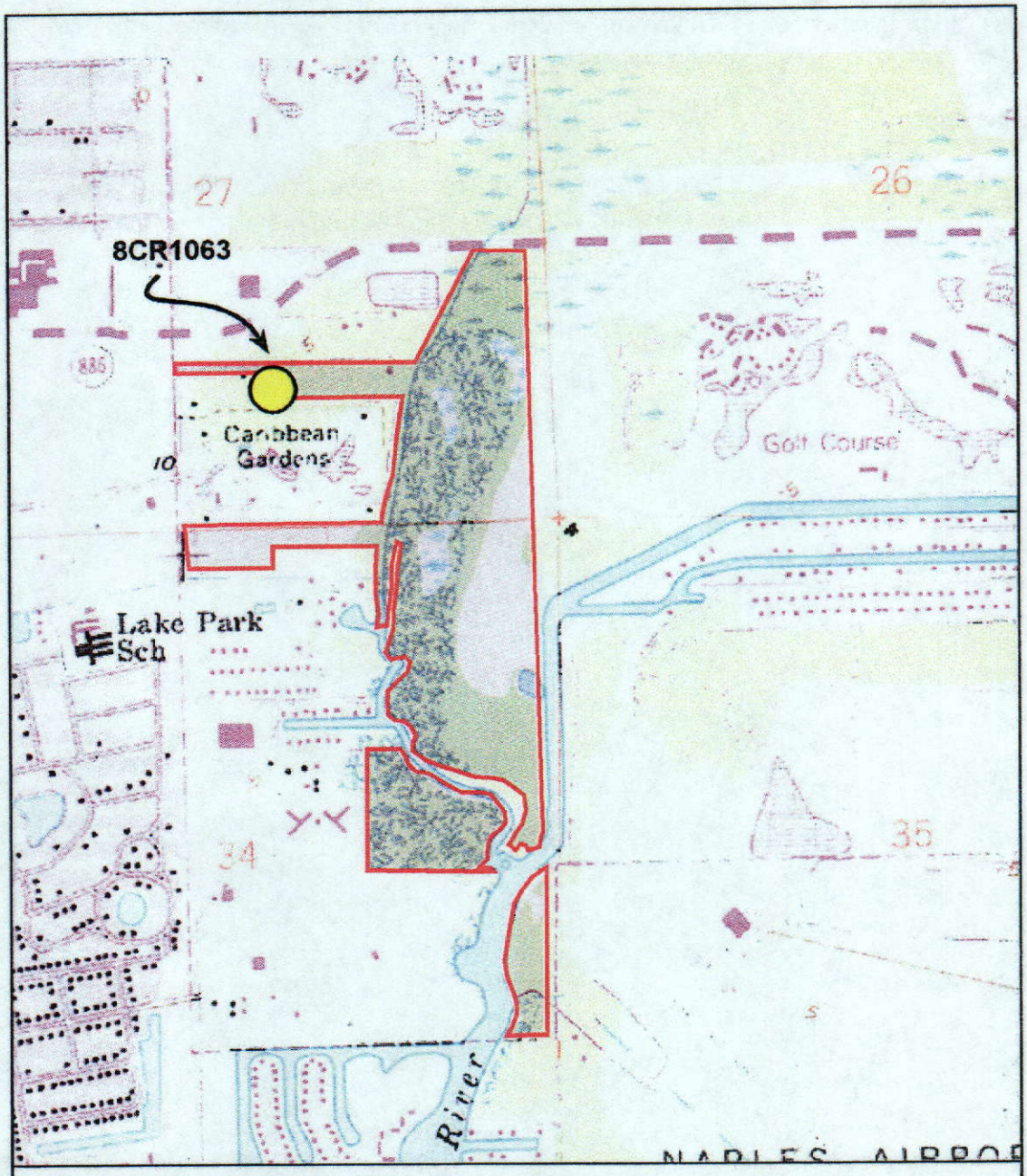

Figure 22. USGS Map of the Gordon River Greenway Parcel depicting the location of site 8CR1063.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.

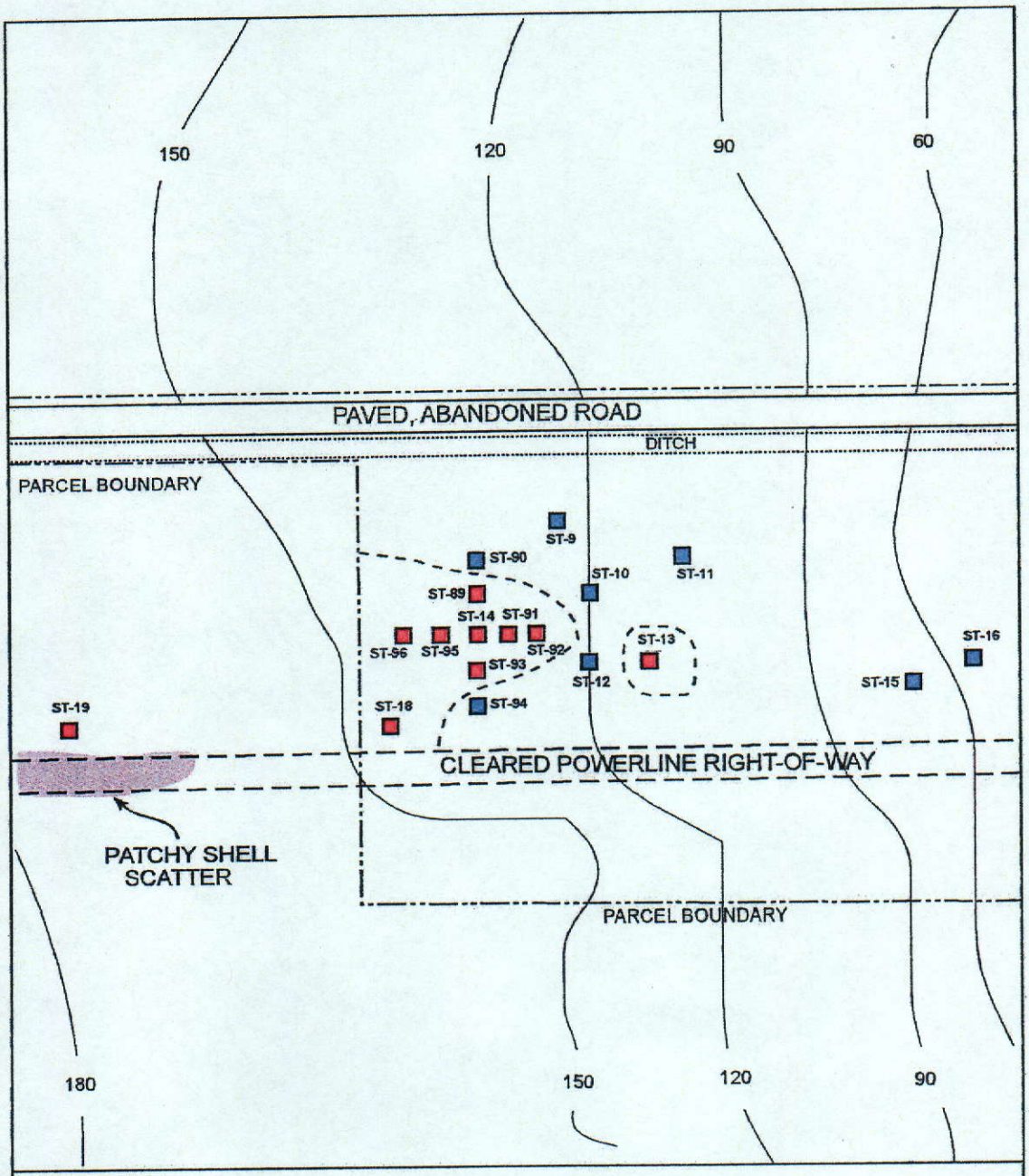

Figure 23. Map of Shovel tests excavated in the 8CR1063 area in Subparcel Five.

N

= POSITIVE SHOVEL TEST

= NEGATIVE SHOVEL TEST

0 5 10 20 30 Meters approx.

CONTOURS IN 30-CENTIMETER INTERVALS

Results and Conclusions

A Phase I cultural resource assessment of the Gordon River Greenway parcel resulted in identifying two previously unrecorded sites on the parcel: 8CR978 and 8CR1063. A total of 96 systematic and judgmental shovel tests was dug, of which ten were positive for cultural material. No buildings—historic or modern—occur on the subject parcel.

The parcel is characterized by both upland pinewoods and fresh and brackish-water wetlands flanking the banks of the Gordon River. For the purposes of this assessment, the parcel was subdivided into five distinct areas (Figure 11). Each of these subparcels were investigated by pedestrian survey and shovel testing.

Ten areas were identified by using aerial photographs as having a potential for being associated with archaeological sites. Each was ground truthed and seven were determined to be Moderate Probability Zones (MPZs) characterized as upland areas vegetated in scrub or live oaks, often with exposed sandy clearings or areas indicating higher elevation than the surrounding country. Nearly all MPZs were a short distance from wetlands or other sources of fresh water or lay along upland/wetland interfaces. Three other targeted areas were determined to be modern spoil piles (See Appendix 2 for detailed descriptions of all of the targeted areas).

A May 22, 2007 site search request sent to the Florida Division of Historic Resources (FDHR) indicated there are three previously recorded archaeological sites in Township 49S, Range 25E, Section 27 and no recorded archaeological or historical sites for Township 49S, Range 25E, Section 34. The three recorded archaeological sites are prehistoric sites—8CR92, 8CR477, and 8CR925. Three additional historic sites located within the Naples Zoo parcel were recorded recently (Carr et al. 2007). Two of the sites, CR974 and CR975, are historic archaeological sites associated with pioneer horticulturalist Henry Nehrling. The third site, CR972, is the original gatehouse and giftshop from the Caribbean Gardens.

In summary, two previously unrecorded sires were documented on the subject parcel. The first site 8CR978, was found in Sub-Parcel 2. This site is characterized by *Macrocallista* and *Spisula* shell fragments eroding from the root balls of downed cabbage palms. These trees appear to have been pushed into a spoil pile from a location east on the adjacent Naples Airport. The Naples Airport was initially constructed during the early years of World War II (circa 1942) as a fighter training base, and the spoil piles may have resulted from this clearing activity. This spoil pile is located on a salt marsh/upland interface running along the eastern edge of the Gordon River. Six shovel tests were dug around the downed tree with negative results. This site may be destroyed, and based on current data, does not qualify for listing on the National Register of Historic Places.

The second site, 8CR1063, is located in the pine flatwoods in Subparcel Five (Figures 22, 23). Eight out of sixteen shovel tests were positive for cultural material which included oyster shell refuse, whiteware, bottle glass, lead net weights, and rusted iron fragments. This historic refuse occurred from depths of 20 cm to as deep as 80 cm. All the historic refuse dates from ca. 1920's through the 1940's. The shell also occurs in patchy scatters often in association with historic and recent refuse material. Shell also occurs along the south border of the parcel within the power line right-of-way. Similar deposits of shell was observed in the vicinity of the Nehrling Slathouse Site, 8CR975, which lies approximately 100 meters south of this area (Carr et al. 2007). Some of this refuse could be from off-road dumping or may be associated with the Nehrling occupation on the adjacent zoo parcel. This site is of unknown significance and Phase II testing is recommended to determine its significance and whether it is associated with the Nehrling occupation.

Although a systematic effort was made to locate other archaeological sites on the subject parcel without positive results, there is still the potential of archaeological sites, features or artifacts existing. Should subsequent development and park improvements reveal this, efforts should be made to protect and document these resources. In the event that human remains are discovered, then the provisions of Florida Statute 872.05, the Unmarked Human Graves Act, will apply.

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Appendix 1: Gordon River Greenway Field Specimen Log

FS No.	Provenience	Description
1	Surface-collected in the southwest corner of elevated push-pile of long duration. MPZ-6, Subparcel Two	*Macrocallista* and *Spisula* food shell refuse fragments
2	Shovel Test 13, 0-35cm MPZ-10, Subparcel Five	oyster shell
3	Shovel Test 14, 0-45cm MPZ-10, Subparcel Five	oyster shell; glass; iron fragments
4	Shovel Test 18, 27-100cm MPZ-10, Subparcel Five	old asphalt; clear bottle glass fragments (modern, discarded)
5	Shovel Test 28, 0-20cm MPZ-7, Subparcel Three	Limestone rock with red ochre-like substance adhering to it (natural, discarded)
6	Surface collected from refuse pile east-central portion of Subparcel One	mature, broken lightning whelk (1); modern metal bar stamped with: "Mfd Marco Products, Los Angeles, CA."
7	Shovel Test 89, 52-80cm MPZ-10, Subparcel Five	lead net weights (3), heavily patinated
8	Shovel Test 91, 0-30cm MPZ-10, Subparcel Five	unidentified iron fragments
9	Shovel Test 92, 0-50cm MPZ-10, Subparcel Five	clear bottle glass fragment, mid 20th century
10	Shovel Test 93, 0-30cm MPZ-10, Subparcel Five	oyster shell (1); whiteware fragments (2), c. early 20th century; clear bottle glass
11	Shovel Test 95, 0-40cm MPZ-10, Subparcel Five	concrete fragment; red house brick fragment
12	Shovel Test 97, 0-40cm MPZ-10, Subparcel Five	1/4' clear flat window glass fragments (3)

Appendix 2: Gordon River Greenway Moderate Probability Zone Log (MPZ)

MPZ	Subparcel	Description
1	1	A slightly elevated area vegetated in scrub oaks with sandy clearings in the central part of the area immediately east of the head of Gordon River, tested negative.
2	1	A rectangular scraped area visible on 1960s aerial photographs, at the western end of a sand trail running east-west across the uplands, likely a fairly recent mechanical disturbance, is approximately 30 meters north-south by 50 meters east-west, tested negative.
3	1	A fairly high canopy cluster of scrub oaks and saw palmettos situated on a very slight rise centered in the Subparcel One subdivision. Tested negative.
4	1	The upland/wetland interface in Subparcel One, tested negative on north-south Transect One.
5	1	Area corresponding to north-south Transect Three running across the long axis of the uplands area of Subparcel One 300 meters east of Transect One, tested negative.
6	2	Elevated push pile approx. 8 meters east-west by 6 meters north-south by 1 meter high, vegetated in emerging tropical hammock vegetation which includes gumbo limbo, white indigo, wild lime, spanish stopper, white stopper, and mahogany. Archaeological material in the form of refuse shell was collected on the surface here. Four subsequent shovel tests in undisturbed ground at this locale proved negative. Area was given the designation, Airport Interface site, 8CR978.
7	3	Elevated ovoid area approximately 10 meters east-west by 20 meters north-south by 1 meter high believed to be early 20th century push pile. The MPZ has moderately large laurel oaks growing on it. Ten shovel tests were placed in the feature; one yielded a fragment of limestone with a red ochre-like substance adhering to it (**FS-5**). However, this is not cultural.
8	3	A small elevated rounded feature approximately 10 meters wide by a meter high vegetated in moderate-sized laurel oaks believed upon negative testing with four shovel tests to be an early-modern push/spoil pile.

9	**4**	The upland/wetland interface in the eastern end of the Subparcel Four subdivision lying immediately west of the Gordon River and represented by Transect Five with five negative shovel tests spaced at 20-meter intervals
10	**5**	The area in the Subparcel Five subdivision of the project parcel lying north of the Nehrling Slathouse, 8CR975. This area is vegetated in slash pine flatwoods heavily impacted by exotic plant species. The area tested positive for historic materials (nine of nineteen shovel tests) possibly refuse possible from Henry Nehrling occupation (ca.1920's).

Appendix 3. Gordon River Greenway Positive Shovel Tests Log

Shovel Test 13 (50x50cm). Subparcel 5, MPZ-10, central portion of area. Positive.
0-35cm Gray sand, oyster shell (**FS-2**)
35-65cm Gray Brown sand
65-100cm Dark brown sand

Shovel Test 14 (50x50cm). Subparcel 5, MPZ-10, 5 meters SW of ST13. Positive.
0-35cm Gray sand, glass, metal, oyster shell (**FS-3**)
35-65cm Gray Brown sand
65-100cm Dark brown sand

Shovel Test 18 (50x50cm). Subparcel 5, MPZ-10, 40 meters WSW of ST14. Positive.
0-27cm Gray sand, oyster shell
27-100cm White sand, asphalt, glass (**FS-4**)

Shovel Test 28 (50x50cm). Subparcel 3, MPZ-7, in center of feature. Positive.
0-32cm Gray sand, glass, limestone rock with red ochre adhesion (**FS-5**)
32-100cm Gray sand with charcoal

Shovel Test 89 (50x50cm). Subparcel 5, MPZ-10, 2 meters west of ST18. Positive.
0-52cm Gray sand
52-80cm Light gray sand, three lead net weights (**FS-7**)
80-90cm Dark brown hardpan

Shovel Test 91 (50x50cm). Subparcel 5, MPZ-10, 6 meters southwest of ST18. Positive.
0-53cm Gray sand, metal, glass (**FS-8**)
53-78cm Light gray sand, metal
78-93cm Dark brown hardpan

Shovel Test 92 (50x50cm). Subparcel 5, MPZ-10, 4 meters north of ST91. Positive.
0-48cm Gray sand, glass (**FS-9**)
48-60cm Light gray sand, metal
60-87cm Dark brown hardpan

Shovel Test 93 (50x50cm). Subparcel 5, MPZ-10, 2 meters south of ST91. Positive.
0-57cm Gray sand, oyster shell, whiteware, glass (**FS-10**)
57-87cm Light gray sand
87-100cm Dark brown hardpan

Shovel Test 95 (50x50cm). Subparcel 5, MPZ-10, 4 meters west of ST91. Positive.
0-40cm Gray sand, brick, concrete (**FS-11**)
40-82cm Light gray sand
82-90cm Dark brown hardpan

Shovel Test 97 (50x50cm). Subparcel 5, MPZ-10, 2 meters southwest of ST96. Positive.
0-50cm Gray sand, window glass (**FS-12**)
50-82cm Light gray sand
82-100cm Dark brown hardpan

Ent D (FMSF only)___/___/___

Survey Log Sheet

Florida Master Site File
Version 4.1 1/07

Survey # (FMSF only)_____

Consult *Guide to the Survey Log Sheet* for detailed instructions.

Identification and Bibliographic Information

Survey Project (name and project phase) **Gordon River Greenway Phase I**

Report Title (exactly as on title page) **A Phase I Cultural Resources Assessment of the Gordon River Greenway Parcel, Collier County, Florida**

Report Author(s) (as on title page— individual or corporate; last names first) **Beriault, John G.; Faulkner, Scott**

Publication Date (year) **2007** Total Number of Pages in Report (count text, figures, tables, not site forms) **40**

Publication Information (Give series and no. in series, publisher and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*.) **Archaeological and Historical Conservancy Technical Report #800**

Supervisor(s) of Fieldwork (whether or not the same as author[s]; last name first) **Carr, Robert S.**

Affiliation of Fieldworkers (organization, city) **Archaeological and Historical Conservancy, Inc.**

Key Words/Phrases (Don't use the county, or common words like *archaeology, structure, survey, architecture*. Limit each word or phrase to 25 characters.) **Naples, Gordon River, Hole-In-the-Wall Swamp**

Survey Sponsors (corporation, government unit, or person who is directly paying for fieldwork)

Name **Collier County Parks Administration**

Address/Phone

Recorder of *Log Sheet* **John G. Beriault** Date *Log Sheet* Completed **7/10/07**

Is this survey or project a continuation of a previous project? θ No θ Yes: Previous survey #(s) (FMSF only)

Mapping

Counties (List each one in which field survey was done - do not abbreviate; use supplement sheet if necessary) **Collier County**

USGS 1:24,000 Map(s) : Map Name/Date of Latest Revision (use supplement sheet if necessary): **Naples North, rev. 1991**

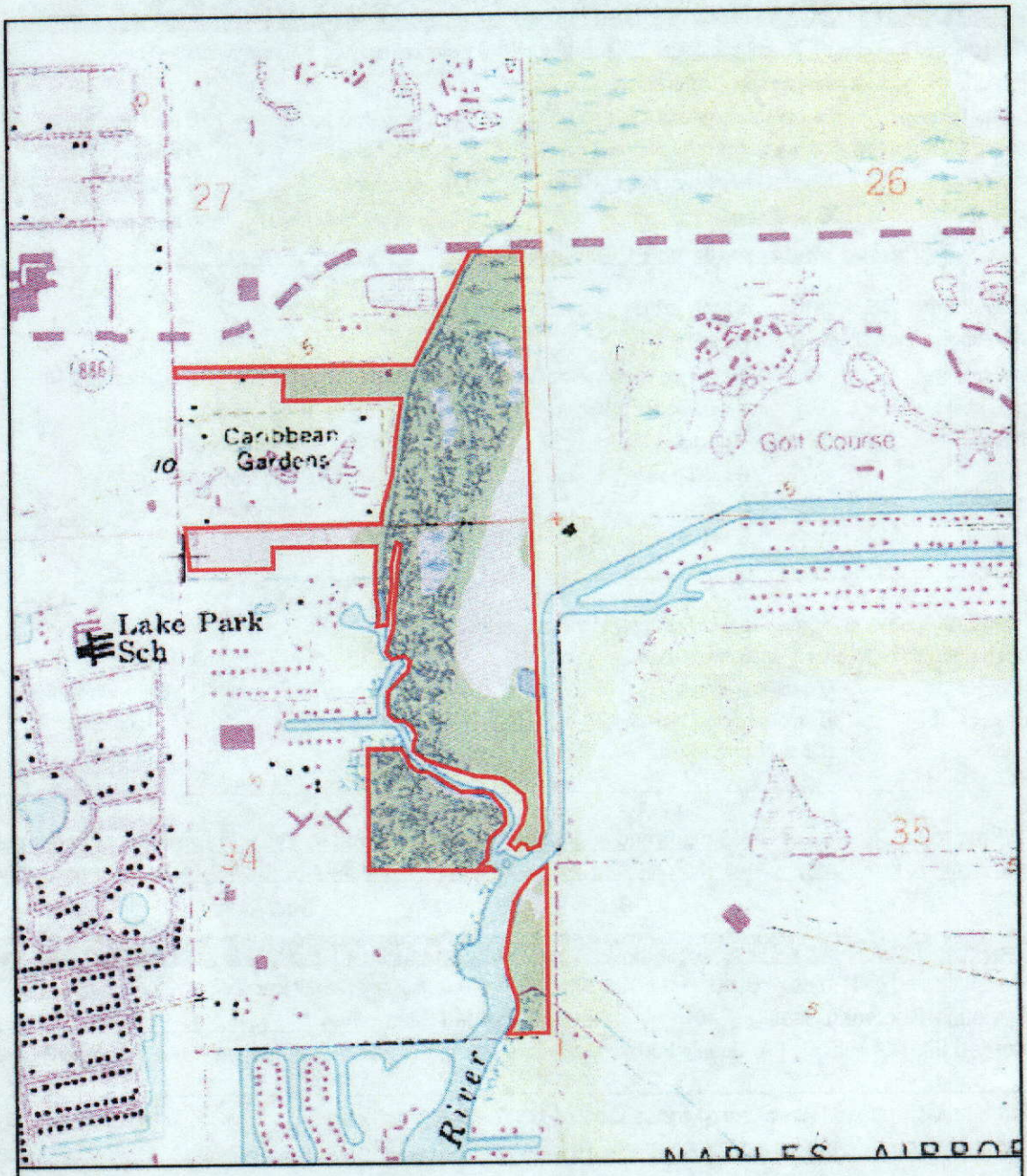
Description of Survey Area

Dates for Fieldwork: Start **4/17/07** End **7/10/07** Total Area Surveyed (fill in one) ___ hectares **153** acres

Number of Distinct Tracts or Areas Surveyed **One**

If Corridor (fill in one for each): Width _____ meters _____ feet Length _____ kilometers _____ miles

HR6E066R0107 Florida Master Site File, Division of Historical Resources, Gray Building, 500 South Bronough Street, Tallahassee, Florida 32399-0250
Phone 850-245-6440, FAX 850-245-6439, Email: SiteFile@dos.state.fl.us



USGS map of the Gordon River Greenway parcel area.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.

Survey Log Sheet

Survey #_____

Research and Field Methods

Types of Survey (check all that apply): X archaeological θ architectural θ historical/archival θ underwater θ other:_____

Preliminary Methods (4Check as many as apply to the project as a whole.)

θ Florida Archives (Gray Building)
θ Florida Photo Archives (Gray Building)
X Site File property search
X Site File survey search
θ library research- *local public*
θ library-special collection - *nonlocal*
θ Public Lands Survey (maps at DEP)
X local informant(s)
θ local property or tax records
θ newspaper files
θ literature search
θ Sanborn Insurance maps
θ other historic maps
θ soils maps or data
θ windshield survey
θ aerial photography

X other (describe) **Grayline aerial photographs and USGS maps**

Archaeological Methods (4Check as many as apply to the project as a whole.)

θ Check here if **NO** archaeological methods were used.

X surface collection, controlled
θ surface collection, uncontrolled
X shovel test-1/4"screen
θ shovel test-1/8" screen
θ shovel test 1/16"screen
θ shovel test-unscreened
θ other screen shovel test (size: ____)
θ water screen (finest size: ____)
θ posthole tests
θ auger (size:____)
θ coring
θ test excavation (at least 1x2 M)
θ block excavation (at least 2x2 M)
θ soil resistivity
θ magnetometer
θ side scan sonar
θ unknown

θ other (describe):_____

Historical/Architectural Methods (4Check as many as apply to the project as a whole.)

θ Check here if **NO** historical/architectural methods were used.

θ building permits
θ commercial permits
θ interior documentation
θ demolition permits
θ exposed ground inspected
θ local property records
θ neighbor interview
θ occupant interview
θ occupation permits
θ subdivision maps
θ tax records
θ unknown

θ other (describe):_____

Scope/Intensity/Procedures **Review of USGS maps and aerial photographs followed by pedestrian survey of entire parcel, the selection of ten Medium Probability Zones (MPZs), and the excavation of 96 50 cm. shovel tests systematically in five transects.**

Survey Results (cultural resources recorded)

Site Significance Evaluated? X Yes θ No If *Yes*, circle NR-eligible/significant site numbers below.

Site Counts: Previously Recorded Sites -0- **Newly Recorded Sites** Two

Previously Recorded Site #'s with Site File Update Forms (List site #'s without "8." Attach supplementary pages if necessary) CR975

Newly Recorded Site #'s (Are you sure all are originals and not updates? Identify methods used to check for updates, i.e., researched Site File records. List site #'s without "8." Attach supplementary pages if necessary.) CR978, CR1063

Site Form Used: θ Site File Paper Form θ SmartForm II Electronic Recording Form

REQUIRED: ATTACH PLOT OF SURVEY AREA ON PHOTOCOPIES OF USGS 1:24,000 MAP(S)

DO NOT USE SITE FILE USE ONLY DO NOT USE

BAR Related

θ 872 θ 1A32 #_____
θ CARL θ UW

BHP Related

θ State Historic Preservation Grant
θ Compliance Review: CRAT #_____

Page 1

X Original
☐ Update
(give site#)

ARCHAEOLOGICAL SITE FORM
FLORIDA MASTER SITE FILE
Version 2.3 7/05

Consult *Guide to Archaeological Site Form* for detailed instructions.

Site #8CR978
Recorder Site#_____
Field Date 4/12/07
Form Date 7/10/07

Site Name(s) **Airport Interface** *Multiple Listing [DHR only]*
Project Name **Gordon River Greenway and Preserve 2007.34** *FMSF Survey #*
Ownership: ☐private-profit ☐private-nonprofit ☐private-individual ☐private-unspecifd. ☐city Xcounty ☐state ☐federal ☐foreign ☐Native American ☐unknown
USGS **7.5 Map Name & Date Naples North, rev. 1991** County **Collier**
Township **49S** Range **25E** Sections **27** ☐ Check if Irregular Section; Qtr. Section (check all that apply): X NE ☐NW ☐SE ☐SW
Landgrant _____ Tax Parcel # (s)_____
City / Town (if within 3 mi.) **Naples** In Current City Limits? X Yes, partially ☐no ☐unknown
UTM: Zone ☐16 X17 Easting _____0 Northing _____0
Address / Vicinity of / Route to **U.S. 41, thence east one mile on Golden Gate Parkway (CR886). Site lies one mile south along eastern section line of Section 34 and immediately west of the NW corner of Naples Airport.**
Name of Public Tract (e.g., park) **Gordon River Greenway and Preserve**

TYPE OF SITE (Check all choices that apply; if needed write others in at bottom)

SETTING *

X Land - *terrestrial*
☐ Cave/Sink - *subterranean*
- ☐ terrestrial
- ☐ aquatic
- ☐ intermittently flooded

☐ Wetland - *palustrine*
- ☐ usually flooded
- ☐ sometimes flooded
- ☐ usually dry

☐ Lake/Pond - *lacustrine*
☐ River/Stream/Creek - *riverine*
☐ Tidal - *estuarine*
☐ Saltwater - *marine*
- ☐ marine unspecified
- ☐ "high energy" marine
- ☐ "low energy" marine

☐ Other_____

STRUCTURES - OR - FEATURES *

☐ aboriginal boat	☐ fort	☐ road segment
☐ agric/farm building	X midden	☐ shell midden
☐ burial mound	☐ mill unspecified	☐ shell mound
☐ building remains	☐ mission	☐ shipwreck
☐ cemetery/grave	☐ mound unspecified	☐ subsurface features
☐ dump/refuse	☐ plantation	☐ surface scatter
☐ earthworks	☐ platform mound	☐ well

FUNCTION *

☐ none specified
X campsite
X extractive site
☐ habitation (prehistoric)
☐ homestead (historic)
☐ farmstead
☐ village (prehistoric)
☐ town (historic)
☐ quarry

HISTORIC CONTEXTS (Check all that apply; use most specific subphases: e.g., if *Glades Ia* only, don't also use *Glades I*)

Aboriginal *

☐ Alachua
☐ Archaic, Early
☐ Archaic, Middle
☐ Archaic, Late
☐ Archaic unspecified?
☐ Belle Glade I
☐ Belle Glade II
☐ Belle Glade III
☐ Belle Glade IV
☐ Belle Glade unspecif.
☐ Cades Pond
☐ Deptford
☐ Englewood
☐ Fort Walton
☐ Glades Ia
☐ Glades Ib
☐ Glades I unspecif.
☐ Glades IIa
☐ Glades IIb
☐ Glades IIc
☐ Glades II unspecif.
☐ Glades IIIa
☐ Glades IIIb
☐ Glades IIIc
☐ Glades III unspecif.
☐ Glades unspecif.?
☐ Hickory Pond
☐ Leon-Jefferson
☐ Malabar I
☐ Malabar II
☐ Manasota
☐ Mount Taylor
☐ Norwood
☐ Orange
☐ Paleoindian
☐ Pensacola
☐ Perico Island
☐ Safety Harbor
☐ St. Augustine
☐ St. Johns Ia
☐ St. Johns Ib
☐ St. Johns I unspecified
☐ St. Johns IIa
☐ St. Johns IIb
☐ St. Johns IIc
☐ St. Johns II unspecified
☐ St. Johns unspecified
☐ Santa Rosa
☐ Santa Rosa-Swift Creek
☐ Seminole: Colonization
☐ Seminole: 1st War To 2d
☐ Seminole: 2d War To 3d
☐ Seminole: 3d War On
☐ Seminole unspecified
☐ Swift Creek, Early
☐ Swift Creek, Late
☐ Swift Creek, unspecified
☐ Transitional
☐ Weeden Island I
☐ Weeden Island II
☐ Weeden Island unspecif.
☐ Prehistoric nonceramic
☐ Prehistoric ceramic
X Prehistoric unspecified

Nonaboriginal *

☐ First Spanish 1513-99
☐ First Spanish 1600-99
☐ First Spanish 1700-1763
☐ First Spanish unspecified
☐ British 1763-1783
☐ Second Spanish 1783-1821
☐ American Territorial 1821-45
☐ American Civil War 1861-65
☐ American 19th Century
☐ American 20th Century
☐ American unspecified
☐ African-American

☐ Other (Less common phases are not check-listed. For historic sites, also give specific dates if known.) _____

ς Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File).

RECORDER'S OPINION OF EVALUATION OF SITE (NOT OFFICIAL; Check one on each line)

Potentially eligible individually for National Register of Historic Places? ☐ yes X no ☐ insufficient information
Potentially eligible as contributor to a National Register district? ☐ yes X no ☐ insufficient information
Explanation of Evaluation (Required if evaluated; limit to 3 lines; attach full justification) **Discovery of prehistoric shell refuse in an old spoil pile in mangrove/upland interface zone immediately west of western boundary of Naples Airport.**
Recommendations for Owner or SHPO Action Preservation or further investigation **No further actions recommended.**

DHR USE ONLY ♣♣♣♣♣♣ OFFICIAL EVALUATIONS ♣♣♣♣♣♣ DHR USE ONLY

NR DATE __/__/____
DELIST DATE __/__/____
KEEPER-NR ELIGIBILITY: ☐yes ☐no Date __/__/____
SHPO-NR ELIGIBILITY: ☐yes ☐no ☐potentially elig. ☐insufficient info. Date __/__/____
LOCAL DESIGNATION: _____ Date __/__/____
Local office _____
National Register Criteria for Evaluation ☐a ☐b ☐c ☐d (See *National Register Bulletin 15*, p. 2)

HR6E06401-97 Florida Master Site File / Div. of Historical Resources / R. A. Gray Bldg / 500 S Bronough St., Tallahassee, FL 32399-0250
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Computer Document File P:\FSF\DOCS\MOM\mom_docs\Ar_Form_V2.3.doc

ARCHAEOLOGICAL SITE FORM

Site #8CR978

Consult *Guide to Archaeological Site Form* for detailed instructions.

FIELD METHODS (Check one or more methods for detection and for boundaries)

SITE DETECTION *

☐ no field check
☐ literature search
☐ informant report
☐ remote sensing
x exposed ground
☐ posthole digger
☐ auger--size:___
☐ unscreened shovel
☐ screened shovel
_____
_____
_____

SITE BOUNDARIES *

x bounds unknown
☐ none by recorder
☐ literature search
☐ informant report
☐ remote sensing
☐ insp exposed ground
☐ posthole tests
☐ auger--size:_____
☐ unscreened shovel
☐ screened shovel
☐ block excavations
☐ estimate or guess

Other methods; number, size, depth, pattern of units; screen size (attach site plan) _____

SITE DESCRIPTION

Extent Size (m^2) _____ Depth/stratigraphy of cultural deposit **Material seen in roots of cabbage palm root mass in old spoil pile**

Temporal Interpretation* - Components (check one): ☐ single ☐ prob single ☐ prob multiple ☐ multiple X uncertain ☐ unknown

Describe each occupation in plan (refer to attached large scale map) and stratigraphically. Discuss temporal and functional interpretations: _____

Integrity Overall disturbance*: ☐ none seen ☐ minor ☐ substantial ☐ major X redeposited ☐ destroyed-**document!** ☐ unknown

Disturbances/threats/protective measures _____

Surface: area collected **200** m^2 # collection units one _____ ; Excavation: # noncontiguous blocks _____

ARTIFACTS

Total Artifacts #_____(C)ount or (E)stimate? Surface #_____(C) or (E) Subsurface #_____ (C) or (E)

COLLECTION SELECTIVITY *

☐ unknown
X unselective (all artifacts) ⇨
☐ selective (some artifacts)
☐ mixed selectivity

SPATIAL CONTROL*

☐ uncollected ☐ general (not by subarea)
☐ unknown ☐ controlled (by subarea)
precious/coin
☐ variable spatial control
☐ Other_____

ARTIFACT CATEGORIES* and DISPOSITIONS * (*example*: A bone-human)

Pick exactly one *code* from Disposition List ⇨ ⇨ ⇨

___ bone-animal	___ exotic-nonlocal
___ bone-human	___ glass
___ bone-unspecified	___ lithics-aboriginal
___ bone-worked	___ metal-nonprecious
___ brick/building debris	___ metal-
___ ceramic-aboriginal	A shell-unworked
___ ceramic-nonaboriginal	___ shell-worked
___ daub	___ Others: _____

Disposition List*

A - category always collected
S - some items in category collected
O - observed first hand, but not collected
R - collected and subsequently left at site
I - informant reported category present
U - unknown

Artifact Comments_____

DIAGNOSTICS (Type or mode, and frequency: e.g., *Suwanee ppk, heat-treated chert, Deptford Check-stamped, ironstone/whiteware*)

1. _____	N=___	5. _____	N=___	9. _____	N=___
2. _____	N=___	6. _____	N=___	10. _____	N=___
3. _____	N=___	7. _____	N=___	11. _____	N=___
4. _____	N=___	8. _____	N=___	12. _____	N=___

ENVIRONMENT

Nearest fresh water type* & name (incl. relict source) **Gordon River (seasonally fresh)** Distance (m)/bearing **60 meters west**

Natural community (FNAI category* or leave blank) **Riverine mangrove/upland interface**

Local vegetation **Tropical hammock elements, white mangroves, cabbage palms**

Topography* _____ Min Elevation **+2** meters Max Elevation **+3** meters

Present land use **Undeveloped/disturbed**

SCS soil series **Immokalee** _____ Soil association _____

FURTHER INFORMATION

Informant(s): Name/Address/Phone/Email _____

Describe field & analysis notes, artifacts, photos. For each, give type*(e.g., notes), curating organization*, accession #s, and short description.

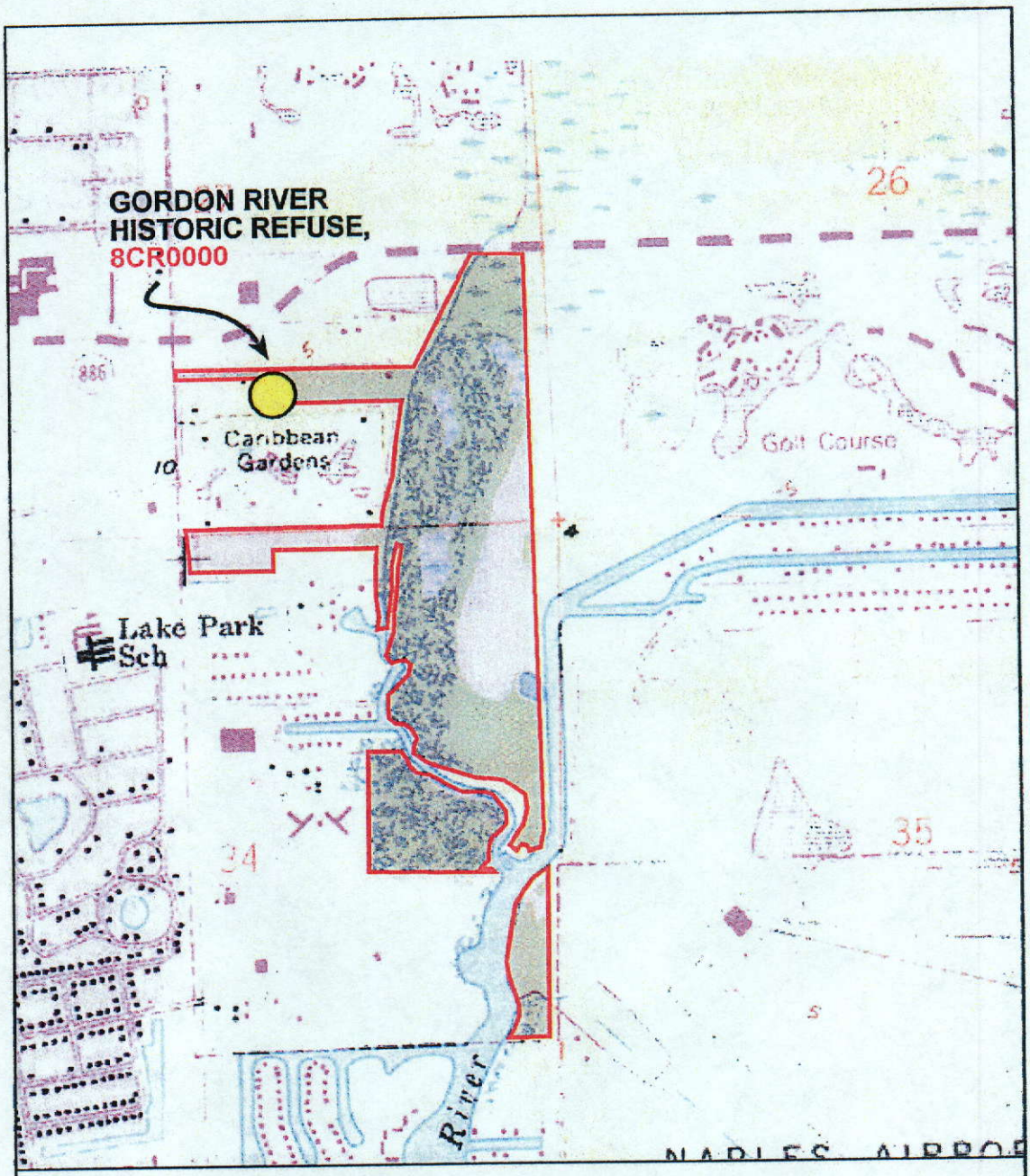
All shovel tests logs, photos, and artifacts will repose at the AHC offices in Davie.

Manuscripts or Publications on the site (Use continuation sheet, give FMSF# if relevant) **A Phase 1 Cultural Resource Assessment of the Gordon River Greenway Parcel, Collier County, Florida. AHC Technical Report #800.**

Recorder(s): Name/Addr./Phone/Email **John G. Beriault, Archaeological and Historical Conservancy, 954-792-9776, archlgl@bellsouth.net**

Affiliation* or FAS Chapter Archaeological and Historical Conservancy _____

ς Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File). **SITE PLAN & USGS REQUIRED** At 1"=300' (1:3600) or larger scale, show: site boundaries, scale, north arrow, datum, test/collection units, landmarks, mappers, date.



Map of the Gordon River Greenway Parcel area showing location of the Gordon River Refuse Site, 8CR978.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.

Page 1

☐ Original
X Update
(give site#)

ARCHAEOLOGICAL SITE FORM
FLORIDA MASTER SITE FILE
Version 2.3 7/05

Consult *Guide to Archaeological Site Form* for detailed instructions.

Site #8CR1063
Recorder Site#_____
Field Date 5/7/07
Form Date 7/10/07

Site Name(s) **Gordon River Historic Refuse** *Multiple Listing [DHR only]*_____
Project Name **Gordon River Greenway and Preserve 2007.34** *FMSF Survey #* _____
Ownership: ☐private-profit ☐private-nonprofit ☐private-individual ☐private-unspecifd. ☐city Xcounty ☐state ☐ federal ☐foreign ☐Native American ☐unknown
USGS **7.5 Map Name & Date Naples North, rev. 1991** County **Collier**
Township **49S** Range **25E** Sections **27** ☐ Check if Irregular Section; Qtr. Section (check all that apply): ☐NE ☐NW xSE ☐SW
Landgrant _____ Tax Parcel # (s) _____
City / Town (if within 3 mi.) **Naples** In Current City Limits? X Yes, partially ☐no ☐unknown
UTM: Zone ☐16 X 17 Easting _____0 Northing _____0
Address / Vicinity of / Route to **Intersection of Golden Gate Parkway and Goodlette Road, thence south on Goodlette 300 feet thence east approx. 500 feet down blocked overgrown access road. Site lies to the south and extends southward to the Naples Zoo.**
Name of Public Tract (e.g., park) _____

TYPE OF SITE (Check all choices that apply; if needed write others in at bottom)

SETTING *
X Land - *terrestrial*
☐ Cave/Sink - *subterranean*
- ☐ terrestrial
- ☐ aquatic
- ☐ intermittently flooded

☐ Wetland - *palustrine*
- ☐ usually flooded
- ☐ sometimes flooded
- ☐ usually dry

☐ Lake/Pond - *lacustrine*
☐ River/Stream/Creek - *riverine*
☐ Tidal - *estuarine*
☐ Saltwater - *marine*
- ☐ marine unspecified
- ☐ "high energy" marine
- ☐ "low energy" marine

☐ Other _____

STRUCTURES - OR - FEATURES *
- ☐ aboriginal boat
- ☐ agric/farm building
- ☐ burial mound
- ☐ building remains
- ☐ cemetery/grave
- x dump/refuse
- ☐ earthworks
- ☐ fort
- ☐ midden
- ☐ mill unspecified
- ☐ mission
- ☐ mound unspecified
- ☐ plantation
- ☐ platform mound
- ☐ road segment
- ☐ shell midden
- ☐ shell mound
- ☐ shipwreck
- ☐ subsurface features
- ☐ surface scatter
- ☐ well

FUNCTION *
- ☐ none specified
- ☐ campsite
- ☐ extractive site
- ☐ habitation (prehistoric)
- X homestead/nursery (historic)
- ☐ village (prehistoric)
- ☐ town (historic)
- ☐ quarry

HISTORIC CONTEXTS (Check all that apply; use most specific subphases: e.g., if *Glades Ia* only, don't also use *Glades I*)

Aboriginal *
- ☐ Alachua
- ☐ Archaic, Early
- ☐ Archaic, Middle
- ☐ Archaic, Late
- ☐ Archaic unspecified
- ☐ Belle Glade I
- ☐ Belle Glade II
- ☐ Belle Glade III
- ☐ Belle Glade IV
- ☐ Belle Glade unspecif.
- ☐ Cades Pond
- ☐ Deptford
- ☐ Englewood
- ☐ Fort Walton
- ☐ Glades Ia
- ☐ Glades Ib
- ☐ Glades I unspecif.
- ☐ Glades IIa
- ☐ Glades IIb
- ☐ Glades IIc
- ☐ Glades II unspecif.
- ☐ Glades IIIa
- ☐ Glades IIIb
- ☐ Glades IIIc
- ☐ Glades III unspecif.
- ☐ Glades unspecif.
- ☐ Hickory Pond
- ☐ Leon-Jefferson
- ☐ Malabar I
- ☐ Malabar II
- ☐ Manasota
- ☐ Mount Taylor
- ☐ Norwood
- ☐ Orange
- ☐ Paleoindian
- ☐ Pensacola
- ☐ Perico Island
- ☐ Safety Harbor
- ☐ St. Augustine
- ☐ St. Johns Ia
- ☐ St. Johns Ib
- ☐ St. Johns I unspecified
- ☐ St. Johns IIa
- ☐ St. Johns IIb
- ☐ St. Johns IIc
- ☐ St. Johns II unspecified
- ☐ St. Johns unspecified
- ☐ Santa Rosa
- ☐ Santa Rosa-Swift Creek
- ☐ Seminole: Colonization
- ☐ Seminole: 1st War To 2d
- ☐ Seminole: 2d War To 3d
- ☐ Seminole: 3d War On
- ☐ Seminole unspecified
- ☐ Swift Creek, Early
- ☐ Swift Creek, Late
- ☐ Swift Creek, unspecified
- ☐ Transitional
- ☐ Weeden Island I
- ☐ Weeden Island II
- ☐ Weeden Island unspecif.
- ☐ Prehistoric nonceramic
- ☐ Prehistoric ceramic
- ☐ Prehistoric unspecified

Nonaboriginal *
- ☐ First Spanish 1513-99
- ☐ First Spanish 1600-99
- ☐ First Spanish 1700-1763
- ☐ First Spanish unspecified
- ☐ British 1763-1783
- ☐ Second Spanish 1783-1821
- ☐ American Territorial 1821-45
- ☐ American Civil War 1861-65
- ☐ American 19th Century
- X American 20th Century
- ☐ American unspecified
- ☐ African-American

☐ Other (Less common phases are not check-listed. For historic sites, also give specific dates if known.) _____

ç Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File).

RECORDER'S OPINION OF EVALUATION OF SITE (NOT OFFICIAL; Check one on each line)

Potentially eligible individually for National Register of Historic Places? ☐ yes ☐no x insufficient information
Potentially eligible as contributor to a National Register district? ☐ yes ☐no X insufficient information
Explanation of Evaluation (Required if evaluated; limit to 3 lines; attach full justification) **Debris and buried refuse (dump) scatter possibly associated with or an extension of the Nehrling Slathouse, 8CR975**
Recommendations for Owner or SHPO Action Preservation or further investigation **Phase II investigation**

DHR USE ONLY ♣♣♣♣♣♣ OFFICIAL EVALUATIONS ♣♣♣♣♣♣ DHR USE ONLY

NR DATE ___/___/___
DELIST DATE ___/___/___

KEEPER-NR ELIGIBILITY: ☐yes ☐no Date ___/___/___
SHPO-NR ELIGIBILITY: ☐yes ☐no ☐potentially elig. ☐insufficient info. Date ___/___/___
LOCAL DESIGNATION: _____ Date ___/___/___
Local office _____

National Register Criteria for Evaluation ☐a ☐b ☐c ☐d (See *National Register Bulletin 15*, p. 2)

HR6E06401-97 Florida Master Site File / Div. of Historical Resources / R. A. Gray Bldg / 500 S Bronough St., Tallahassee, FL 32399-0250
Phone (850) 245-6440 / Suncom 205-6440 / Fax (850)-245-6439 / E-mail fmsfile@dos.state.fl.us
Computer Document File P:\FSF\DOCS\MOM\mom_docs\Ar_Form_V2.3.doc

ARCHAEOLOGICAL SITE FORM

Consult *Guide to Archaeological Site Form* for detailed instructions.

FIELD METHODS (Check one or more methods for detection and for boundaries)

SITE DETECTION*

☐ no field check
☐ literature search
☐ informant report
☐ remote sensing
X exposed ground
☐ posthole digger
☐ auger--size:___
☐ unscreened shovel
X screened shovel
_____
_____
_____

SITE BOUNDARIES*

☐ bounds unknown
☐ none by recorder
☐ literature search
☐ informant report
☐ remote sensing
☐ insp exposed ground
☐ posthole tests
☐ auger--size:_____
☐ unscreened shovel
☐ screened shovel
☐ block excavations
X estimate or guess

Other methods; number, size, depth, pattern of units; screen size (attach site plan) _____

SITE DESCRIPTION

Extent Size **20000(m^2)** _____ Depth/stratigraphy of cultural deposit from surface to **Depths of up to 80cm**

Temporal Interpretation* - Components (check one): ☐ single ☐ prob single X prob multiple ☐ multiple ☐ uncertain ☐ unknown

Describe each occupation in plan (refer to attached large scale map) and stratigraphically. Discuss temporal and functional interpretations: _____

Integrity Overall disturbance*: ☐ none seen X minor ☐ substantial ☐ major ☐ redeposited ☐ destroyed-**document!** ☐ unknown

Disturbances/threats/protective measures _____

Surface: area collected _____ m^2 # collection units _____ ; Excavation: # noncontiguous blocks _____

ARTIFACTS

Total Artifacts #_____(C)ount or (E)stimate? Surface #_____(C) or (E) Subsurface #_____ (C) or (E)

COLLECTION SELECTIVITY*

☐ unknown
X unselective (all artifacts) ⇨
☐ selective (some artifacts)
☐ mixed selectivity

SPATIAL CONTROL*

☐ uncollected ☐ general (not by subarea)
☐ unknown precious/coin ☐ controlled (by subarea)
☐ variable spatial control
☐ Other_____

ARTIFACT CATEGORIES* and DISPOSITIONS* (*example*: A bone-human)

Pick exactly one *code* from Disposition List ⇨ ⇨ ⇨

___ bone-animal	___ exotic-nonlocal
___ bone-human	A glass
___ bone-unspecified	___ lithics-aboriginal
___ bone-worked	A metal-nonprecious
A brick/building debris	___ metal-
___ ceramic-aboriginal	___ shell-unworked
A ceramic-nonaboriginal	___ shell-worked
___ daub	___ Others: _____

Disposition List*

A - category always collected
S - some items in category collected
O - observed first hand, but not collected
R - collected and subsequently left at site
I - informant reported category present
U - unknown

Artifact Comments **Refuse from 1920s to 1930s** _____

DIAGNOSTICS (Type or mode, and frequency: e.g., *Suwanee ppk, heat-treated chert, Deptford Check-stamped, ironstone/whiteware*)

1. _____ N=___	5. _____ N=___	9. _____ N=___
2. _____ N=___	6. _____ N=___	10. _____ N=___
3. _____ N=___	7. _____ N=___	11. _____ N=___
4. _____ N=___	8. _____ N=___	12. _____ N=___

ENVIRONMENT

Nearest fresh water type* & name (incl. relict source) **Swamp** Distance (m)/bearing **300 meters east**

Natural community (FNAI category* or leave blank) **Slash pine flatwoods**

Local vegetation Slash pines, various exotics

Topography* _____ Min Elevation **2** meters Max Elevation **3** meters

Present land use **Undeveloped**

SCS soil series **Immokalee** Soil association _____

FURTHER INFORMATION

Informant(s): Name/Address/Phone/Email _____

Describe field & analysis notes, artifacts, photos. For each, give type*(e.g., notes), curating organization*, accession #s, and short description.

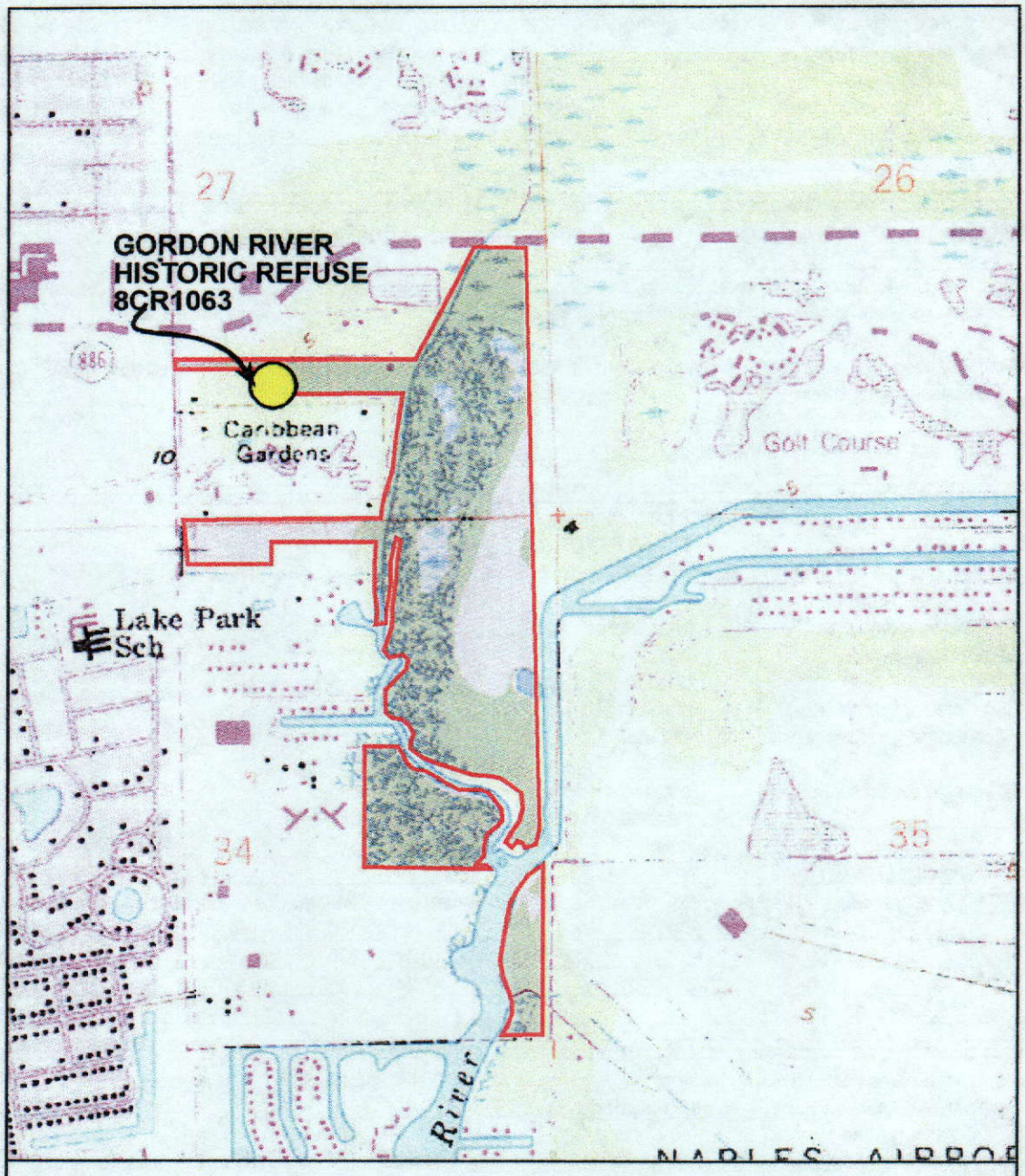
All shovel tests logs, photos, and artifacts will repose at the AHC offices in Davie.

Manuscripts or Publications on the site (Use continuation sheet, give FMSF# if relevant) **A Phase 1 Cultural Resource Assessment of the Gordon River Greenway Parcel, Collier County, Florida. AHC Technical Report #800.**

Recorder(s): Name/Addr./Phone/Email **John G. Beriault, Archaeological and Historical Conservancy, 954-792-9776, archlgcl@bellsouth.net**

Affiliation* or FAS Chapter _____

ç Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File). **SITE PLAN & USGS REQUIRED** At 1"=300' (1:3600) or larger scale, show: site boundaries, scale, north arrow, datum, test/collection units, landmarks, mappers, date.



Map of the Gordon River Greenway Parcel area showing location of the Gordon River Refuse Site, 8CR1063.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27/34

USGS Map: NAPLES NORTH, REV. 1991

0	1/8	1/4	1/2 Mile approx.
0	.2	.4	.8 Km. approx.

A PHASE II ARCHAEOLOGICAL ASSESSMENT OF 8CR1063, GORDON RIVER GREENWAY PARK PARCEL, COLLIER COUNTY, FLORIDA

By:

ROBERT S. CARR, M.S.
JOHN G. BERIAULT, B.A.
SCOTT FAULKNER
MATHEW A. BETZ, B.A.

ARCHAEOLOGICAL AND HISTORICAL CONSERVANCY, INC.

For:
COLLIER COUNTY PARKS AND RECREATION DEPARTMENT

DECEMBER 2007
AHC PROJECT NO. 2007.106
AHC TECHNICAL REPORT NO. 829

A Phase II Archaeological Assessment of 8CR1063, Gordon River Greenway Parcel, Collier County, Florida

By:

Robert S. Carr, M.S.
John G. Beriault, B.A.
Scott Faulkner
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CONSULTANT SUMMARY

In December 2007, the Archaeological and Historical Conservancy Inc. (AHC) conducted a Phase II archaeological assessment for the Collier County Parks and Recreation Department of site 8CR1063, located in the northwest portion of the Gordon River Greenway parcel. The ±150-acre Gordon River Greenway parcel is located east of the City of Naples in west-central Collier County. An area of historic refuse (8CR1063) was discovered during a Phase I cultural resource assessment of the parcel in July 2007 (Beriault et al. 2007). This Phase II assessment was conducted to determine the site's significance.

This assessment was conducted to fulfill historic resource requirements in response to Florida's Chapter 267. This assessment was conducted in accordance with Section 106 of the National Historic Preservation Act of 1966 (Public Law 89-665), as amended in 1992, and 36 C.F.R., Part 800: Protection of Historic Properties. The work and the report conform to the specifications set forth in Chapter IA-46, Florida Administrative Code.

The Gordon River Greenway encompasses part of Sections 27 and 34 in Township 49S, Range 25E (Figure 1). The parcel contains undeveloped woodland and vacant land with second-growth dense successional vegetation, both native and exotic. The parcel has been partially impacted by farming and other developmental activity dating back to 60+ years ago. The northern end of the parcel contains the headwaters for the Gordon River, which drains into Naples Bay to the south. A portion of the parcel will be used by Collier County to create a park and picnic area.

This Phase II assessment included the excavation of seven meter-square units across the site area. This phase of work assessed the extent and significance of the historic artifact scatter, specifically to determine whether it is associated with Nehrling Gardens. The seven units were excavated to depths generally ranging from 25-50cm. All units were dug to sterile sediments.

It was determined that site 8CR1063 is a historic artifact/refuse scatter resulting from mechanical clearing, possibly of an adjacent structure, in the early 1950s which is approximately the time the parcel was purchased by Julius Fleischmann.

It is the consultant's opinion that archaeological site 8CR1063 dates from the late 1940s – early 1950s and is not associated with botanist Henry Nehrling and is not regarded as eligible for listing on the National Register of Historic Places.

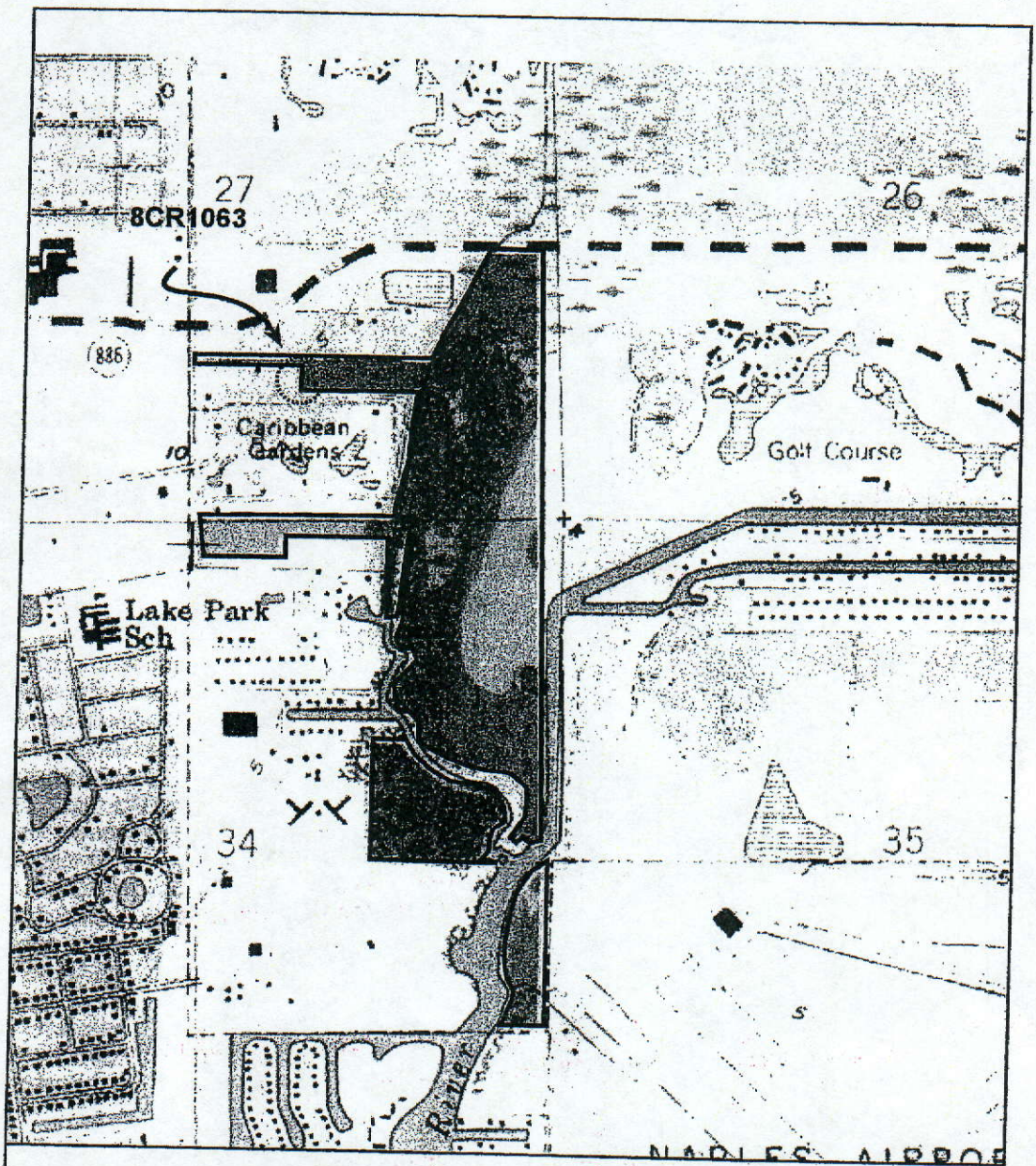

Figure 1. Map of the Gordon River Greenway Parcel area showing location of the Gordon River Site, 8CR1063.

TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, 1958, REV. 1991

0 660 1320
0 .2 .4

2640 Feet approx.
.8 Km. approx.

PROJECT SETTING

The subject parcel is located in part of Sections 27 and 34 in Township 49S, Range 25E immediately east of the City of Naples in west-central Collier County, Florida (Figure 1). The approximately 153-acre Gordon River Greenway Preserve parcel area is an irregular area with the straight borders oriented to the cardinal points. The parcel flanks and adjoins the head of the Gordon River north of Naples Bay. The relevant USGS map is Naples North, Fla.

Portions of the project parcel are mangrove wetlands rising to moderately elevated historic slash pine flatwoods (12-15 feet, NGVD). Historically, it was vegetated in slash pine/saw palmetto flatwoods dropping gradually to the flood plain/drainage basin of the Gordon River flowing south into Naples Bay. The area contained a dense mix of fresh and brackish water swamp with red mangroves bordering the river and cypress swamp/maple swamp elements fringing the river at the extreme head of drainage. The drainage north of the parcel was part of the area called by the local inhabitants Hole-In-The-Wall Swamp. Historically there was a cut trail running east-west across the slough slightly to the north of the subject parcel allowing early residents to cross this barrier for hunting and to access the interior country north and east of Naples.

Slash pine flatwoods communities are usually situated on high ground flanking Naples Bay/Gordon River. Historically, these communities, which contain a dense, often head-high understory of saw palmetto, were subject to and maintained by periodic forest fires. Fires started either naturally by lightning strikes or by prehistoric Indians or by early settlers to aid hunting or cattle grazing. Among the plants typically found in the slash pine/saw palmetto flatland/prairie environments are: slash pine, saw palmetto, gallberry, shiny lyonia, rusty lyonia, staggerbush, dahoon holly, ground oak, wire grass, broom sedges, shiny blueberry, xyris, and a variety of annual and perennial herbs and wildflowers blooming seasonally.

Bordering these high ground areas and running as north-south linear transverse depressions are deep sloughs and bald cypress swamp, cypress heads and marsh ponds or areas closer to Naples Bay of brackish mangrove swamp marshland in areas subject to saltwater tidal interchange. These areas even with present-day drainage activities contain standing water much of the year and support a rich diversity of plant and animal life. Some of the plant species present in freshwater swamp/sloughs (generally immediately north of the subject parcel) include cordgrasses (*Spartina* spp.) and succulent marsh plants such as pickerelweed (*Pontederia lanceolata*) and arrowhead (*Sagittaria* spp.) and ferns such as swamp fern (*Blechnum serrulatum*), *Thelypteris* and *Osmunda* ferns. The deep open marshes of the area are likely relict burnt cypress solution holes and pond features as evinced by the abundant dead snags and logs of that species. At present, many of these features contain pop ash (*Fraxinus caroliniana*), pond apple (*Annona glabra*), coastal plain willow (*Salix caroliniana*), and buttonbush. All of these environmental zones were heavily exploited by prehistoric Indians, early white settlers, and more recent recreational hunters.

A third environmental community, now largely destroyed in the Naples area was xeric sand pine/live oak/rosemary scrub on a series of linear Pleistocene ridge features paralleling the coast and extending inland as much as two miles from the coast. A range of these ridge features existed immediately west of the subject parcel in the area of Coastland Mall. A 30-acre area in the northeast portion of the parcel is an elevated flatwoods approaching the elevation of a sandhill. This area contains scrub oak clusters and many of the plants found in the lower zones of a typical sandhill.

Much of the lower, more swampy areas of the parcel are vegetated in a dense, nearly impenetrable brackish mangrove swamp. The dominant plants are mangroves; the red *Rhizophora mangle*, black *Avicennia nitida*, white *Laguncularia racemosa*, and buttonwood, *Conocarpus erecta*. These mangroves together with an understory of low growing halophytic ("salt-loving") succulent plants such as sea rockets, sea lavender, purslane, and salt wort in lowest zones. Because these mangrove areas are near the head of Gordon River, plants such as leather fern *Acrostichum spp.*, black rush, and spartina grasses are frequently found.

There is evidence to suggest that sea level in the area of southwest Florida is on the rise (hence the "drowned" coastline). These are the results of eustatic, worldwide changes. The sea level in the region has fluctuated over the last several thousand years. Scholl and Stuiver believe the "submergence" curve for these changes have been a gradual steady rise, whereas Fairbridge sees the changes as being more erratic with periodic episodes of sea level fluctuation. Recent investigations into sedimentation in the region suggest the latter view may be the more correct one as many of the changes are manifested in alternating marls and shell bar formations suggesting profound fluctuation over at least the last five thousand years of the Holocene (Widmer 1998).

The soil types for the area are fine white to gray sand mantles covering brown hardpan sands. Immokalee fine sand; Hallandale fine sand; Basinger fine sand; Holopaw fine sand; and Durban and Wolfert mucks are among the soil types present. These are generally characterized as fine to poorly drained mucks and sand, generally deposited by wind and water activity through time.

The present condition of the parcel varies from nearly pristine woodland to profound alteration from dredging, excavating, filling, clearing, reconfiguring and planting. Collier County intends to maintain the parcel as Greenway and preserve with periodic control of exotic invasive pest plants and minimal alteration.

The portion of the parcel containing Site 8CR1063 is located in the northwestern corner and is part of a narrow extension west from the Gordon River to Goodlette Road. The area is historic, moderately elevated pine flatwoods, a potion of which has undergone mechanical clearing/scraping activity in the early to mid 1950s. The area is at present thickly overgrown with a mixture of native and exotic plants, many of the latter having escaped from the Caribbean Gardens/Zoo at Naples parcel to the south. Understory vegetation consists of various rank grasses and invasive exotics such as brazillian pepper and downy rose myrtle. In the eastern portion of the extension was the Big Cypress Nature Center, operating in the former relocated house of Julius Fleischmann c. 1960-1980. The building structure was removed prior to 1990

from the parcel. A paved road, now abandoned leads east from Goodlette Road to the structure site.

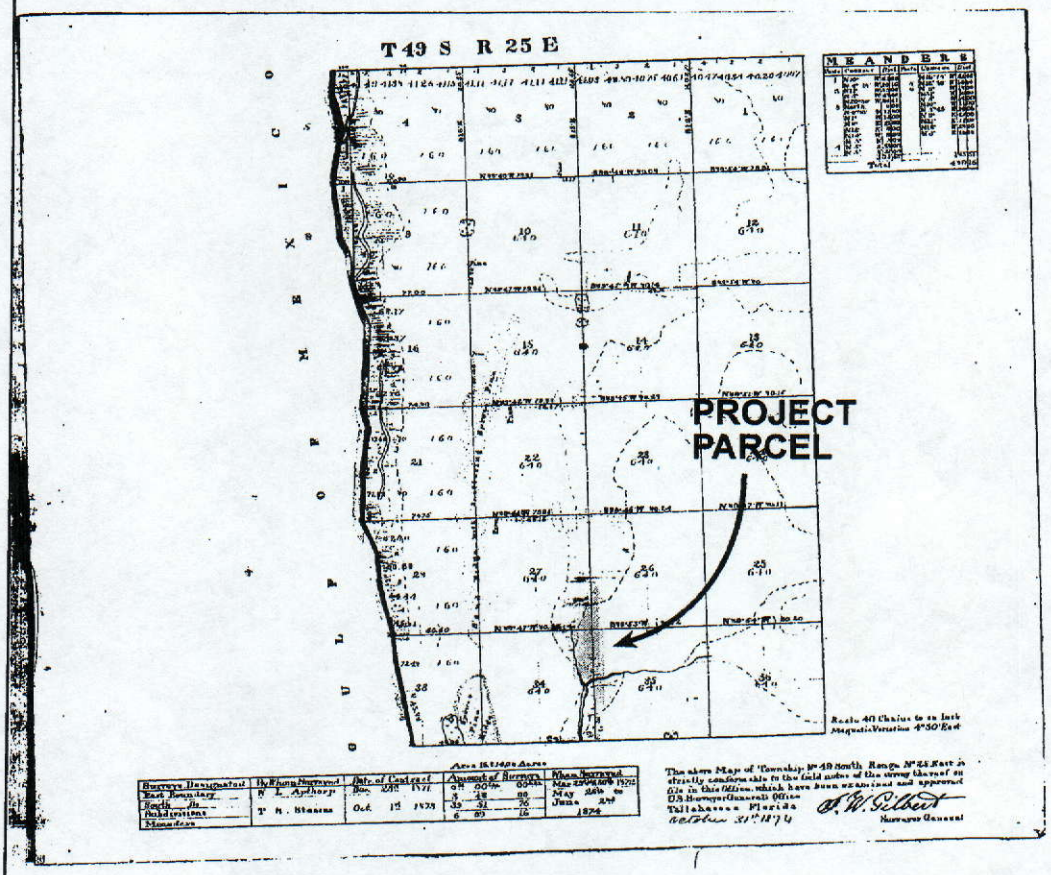

Figure 2. Portion of the 1874 plat map for Township 49S, Range 25E with the modern parcel boundaries superimposed.

N

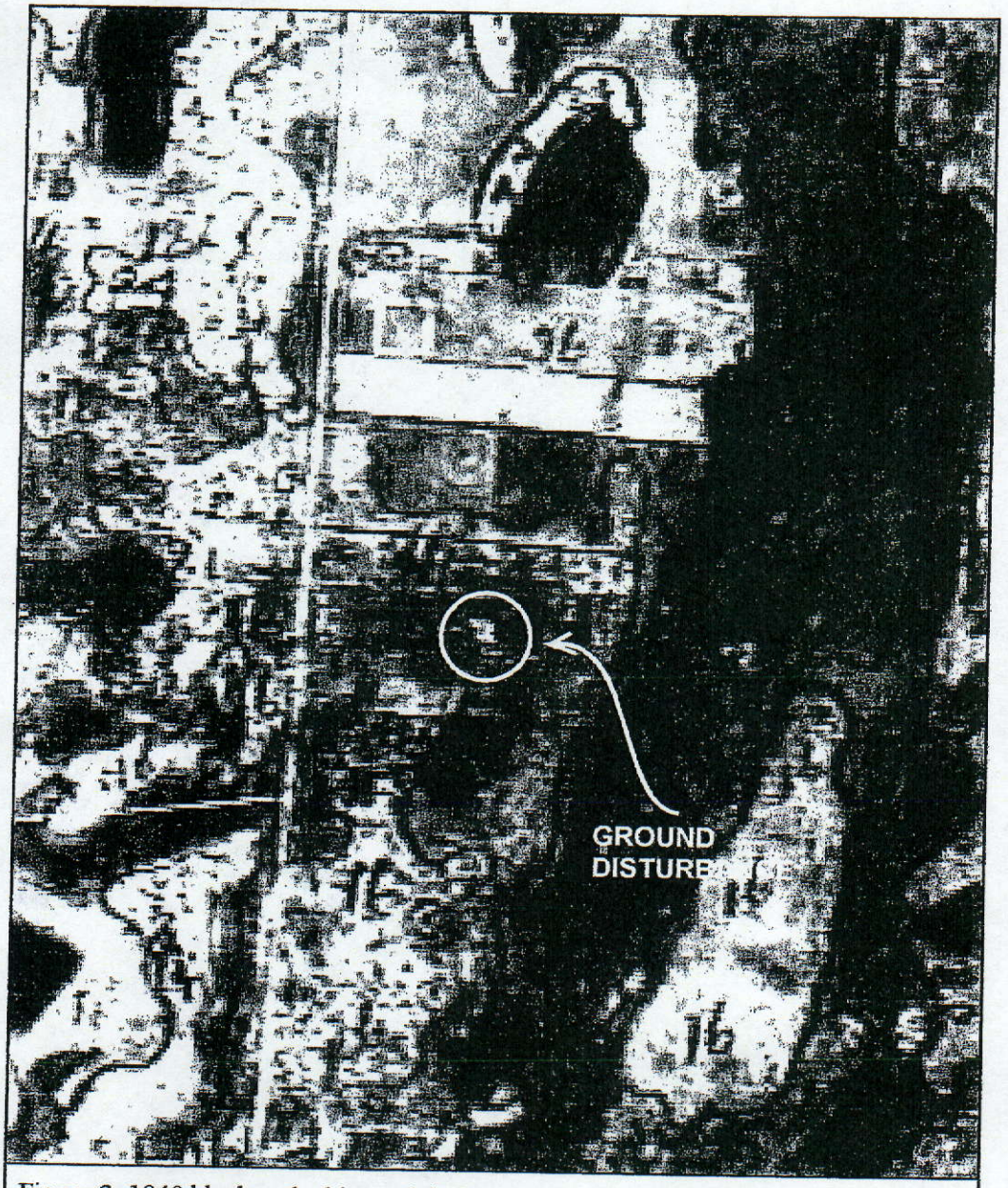

Figure 3. 1940 black and white aerial photograph showing whitish disturbed area in vicinity of 8CR1063.



Figure 4. Detail of 1952 black and white aerial photograph of the Gordon River Greenway parcel area.

N

0 330 660 1320 Feet approx.
0 .1 .2 .4 Km. approx.

PHOTOGRAPHS COURTESY OF
COLLIER COUNTY SOIL AND WATER
CONSERVATION SERVICE

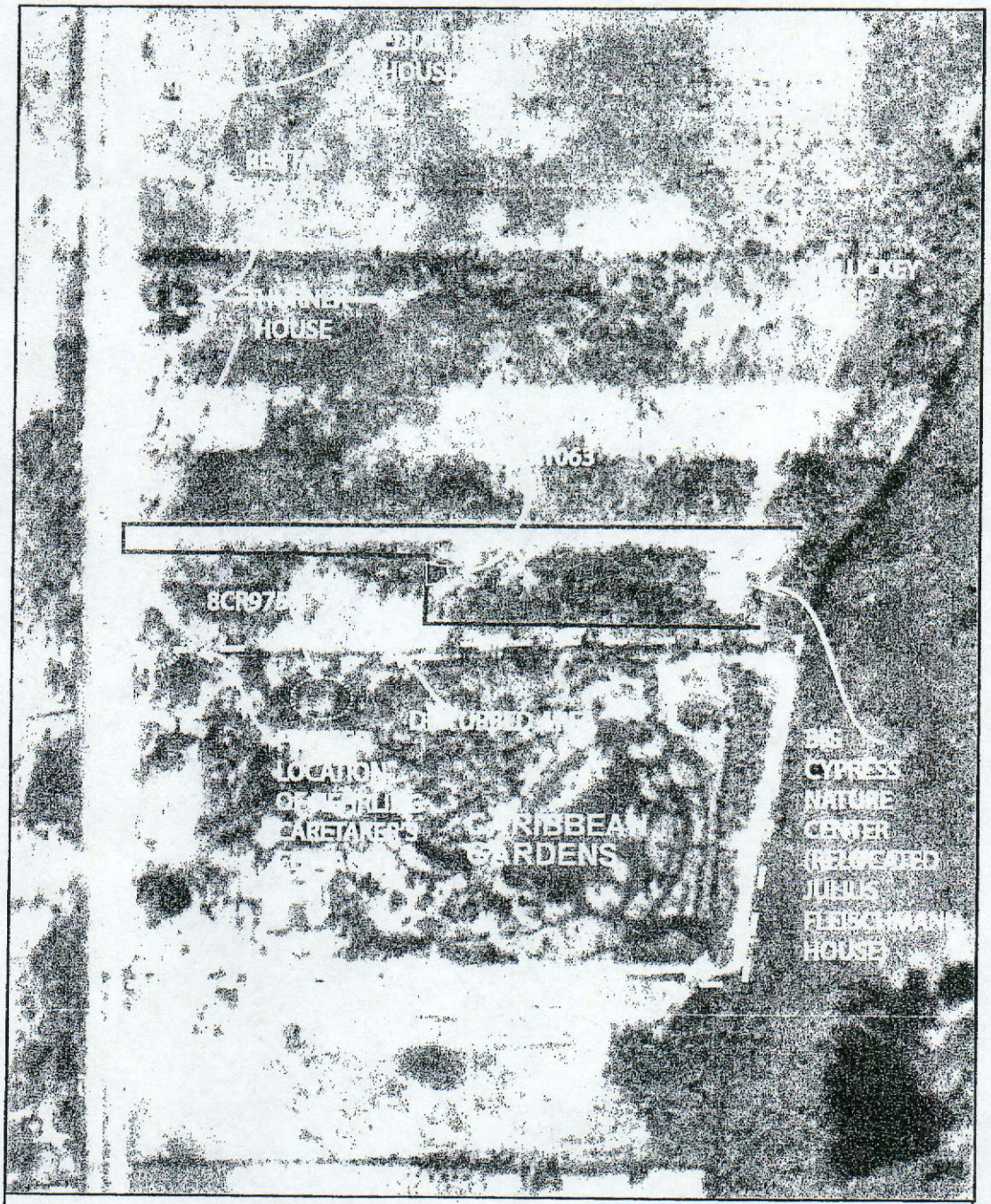

Figure 5. 1962 black and white aerial photograph of the Site 8CR1063 area showing various sites.

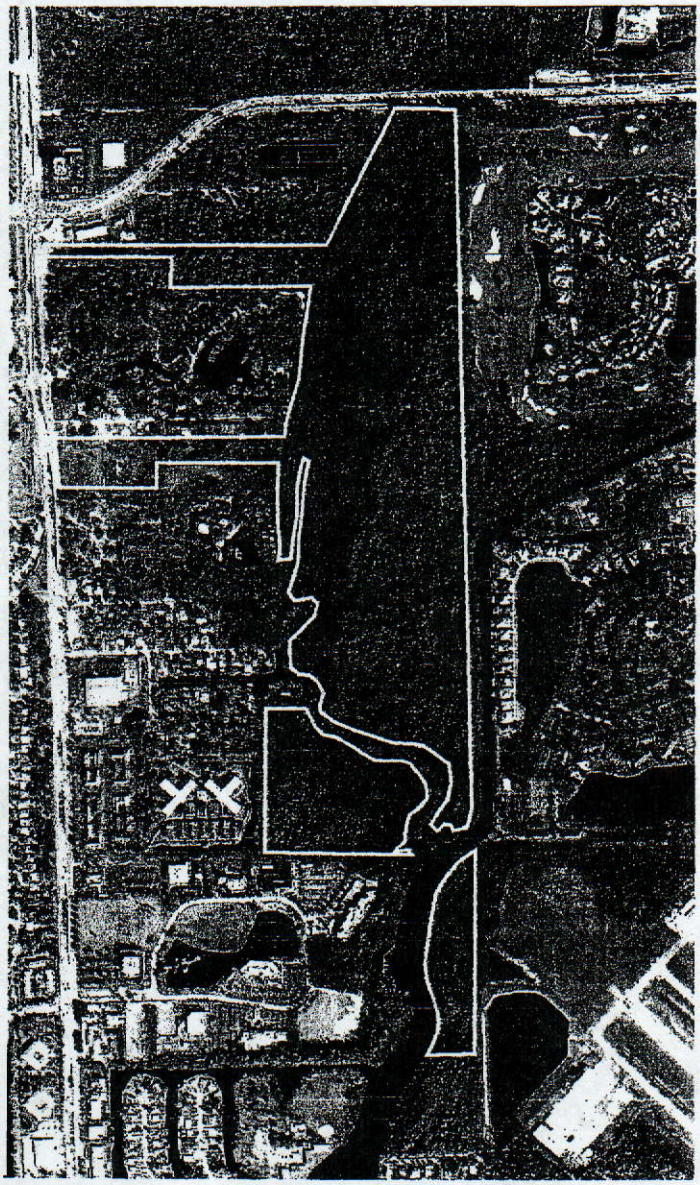

Figure 6. 2004 color aerial orthophotograph of the Gordon River Greenway and Preserve parcel area.

N

0 660 1320 2640 Feet approx.
0 .2 .4 .8 Km. approx.

PREVIOUS RESEARCH

Southwest Florida has been a focus of archaeological investigations since the 1880s, although much of the early work was directed toward the recovery of museum quality artifacts rather than understanding cultural processes. Griffin (1988:48-50) discussed some of the very early references to archaeological sites in South Florida. He noted that these early reports were mostly casual observations, and few appear to refer to southwest Florida, but rather refer to the southeast and Key West areas.

Kenworthy's (1883) informal report on shell mounds and ancient canals was one of the first reports on southwest Florida archaeological sites. At about the same time as Kenworthy's investigations, Simons (1884) gave a narrative account of some of the very large coastal shell middens, and Douglass (1885) provided further information about prehistoric canals (although he did not accept that they were prehistoric). One account described a canal near Gordon's Pass that is probably the Naples Canal (8CR59), and another further north may be the Pineland Canal. Douglass' diaries record excavations of a post-contact era site (8CR41) on Horrs Island, as evidenced by the presence of European artifacts (Griffin, 1988:50-51). Douglass visited Lostman's River and other areas in the Ten Thousand Island area including Horrs Island (1890).

In 1895 Durnford reported that cordage and other artifacts were recovered from a mangrove muck pond on Marco Island (8CR49). The material was shown to Cushing, who mounted a major project to recover more material from the site. Cushing (1897) reported recovering wood and other perishable artifacts from the muck pond on Marco Island, adjacent to a large shell works and midden village site. Publication of illustrations of the spectacular finds generated a great deal of subsequent interest. Wells M. Sawyer, a young artist accompanying the expedition, produced an excellent and presumably accurate contour map for the entire Key Marco Shell Midden. This map is valuable to present-day efforts in understanding many of the now obliterated features and interpreting (reconstructing) the "architecture" of the shell midden. Widmer (1983) notes that Cushing also focused attention on the nonagricultural chiefdom level of social organization supported by the rich estuary and marine resources, although his anthropological observations have remained overshadowed by the wealth of artifacts.

Moore (1900, 1905, 1907) investigated a number of sites along the Collier/Lee County coast, apparently attempting to find material comparable to Cushing's finds. Although Moore provided information about site locations and general contents, most of his work was extremely crude and uncontrolled, by both contemporary archaeological standards, and by modern standards.

The first attempt to systematically survey and investigate archaeological sites was initiated by Ales Hrdlička, who visited a number of sites along the coast and tidal mangrove estuaries in 1918, focusing on the Ten Thousand Island region (Hrdlička 1922). Hrdlička noted that southwest Florida was a distinct region within south Florida and made an attempt to type sites by function.

Matthew Stirling's (1931, 1933) excavation of a burial mound on Horrs Island represents one of the first controlled excavations in Collier/Lee Counties (although he attempted stratigraphic control, Cushing had little success in his wet site excavation). The site was named the Blue Hill Mound, but it is not recorded under that name in the FMSF (either as a primary or secondary name), so it is unclear exactly which site he excavated, although it was probably site 8CR41 (McMichaels, 1982). These reports by Stirling are preliminary, and apparently neither a final report nor a skeletal analysis has been published.

John M. Goggin was the first to define a south Florida cultural area (Glades Area), and describe south Florida ceramics (Glades ware), establishing a basis for later archaeological work. He published an analysis of the ceramic sequence in south Florida (Goggin, 1939, 1940). In later reports (Goggin, 1947, 1949a, 1949b), he formulated a basic framework of cultural areas and chronologies that is still current (although modifications with additional data have been made, see further discussion below). Goggin (1949b) summarized much of this information in an unpublished manuscript, which Griffin (1988) thoroughly described.

In passing, one unfortunate aspect of Goggin's work was a dependence on informant information for location of sites (especially interior sites) and he had a real concern that existing sites would be looted. This concern resulted in his either deliberately or incidentally reporting vague locational data for many sites. Some of these sites have never been satisfactorily relocated, although a few have undoubtedly been re-recorded by later investigators.

For several decades, much of the subsequent archaeological investigations in the region took place in Lee and Charlotte Counties, especially in the Cape Haze, Charlotte Harbor and Pine Island areas. It is rumored that Goggin had a "gentleman's agreement" with many of the other leading practicing Florida archaeologists of the time that the South Florida area was his exclusive province to investigate. If this rumor is correct, it might explain the neglect shown the southwest Florida area in the archaeological arena from the end of World War II to Goggin's death in 1964.

In 1956, Sears reported on a large village and mound complex at the mouth of Turner River on Chokoloskee Bay south of Marco Island, and in 1967 he reported on the results of a survey of the Cape Coral area (Sears, 1956, 1957). Laxson (1966) reported on excavations at Turner River Jungle Garden site, which is upriver from the Turner River site, although these have been confused in recent accounts.

Van Beck and Van Beck (1965) excavated three small test pits on Marco Island (at the Marco midden, 8CR48) associated with the Cushing site (8CR49). The resulting publication of this work was some of the first reported scientific archaeological work to come from the southwest Florida area in nearly twenty years (Van Beck and Van Beck, 1965).

In 1967 through 1969, Marco Island was extensively surveyed and a few sites were tested through excavation by Cockrell, Morrell, and others (Morrell, 1969). No complete site report was ever published, although an unpublished and incomplete manuscript is available. Some of these sites were discussed in Cockrell's master's thesis (1970). Widmer performed a survey of

Big Key, John Stevens Creek, Barfield Bay, Blue Hill Bay, and Collier Bay, which are proximal to Marco Island (Widmer, 1974). Widmer eventually utilized his southwest coast experience to write a doctoral dissertation on the Calusa that not only remains the definitive work on that group, but also explored the relationship between subsistence adaptation and cultural evolution (Widmer, 1983).

In Lee County, Arlene Fradkin and other investigators from the University of Florida began an ongoing involvement with the Pine Island Sound/Sanibel Island area in the 1970s. Her first investigations were at the Wightman site on northern Sanibel Island (Fradkin, 1976).

Several archaeologists excavated at Horrs Island in the 1980s. McMichaels (1982) reviewed sites on Horrs Island in a Master's thesis. In 1983, Marquardt began a series of investigations at Josslyn Key, Useppa Island, Pineland, Buck Key, Galt Island in Lee County, and at Big Mound Key in Charlotte County (Marquardt, 1984, 1987, 1988, 1992). Marquardt and Russo have investigated Horrs Island in Collier County. A number of the large shell midden village sites they excavated appear to be late Archaic, and they expect to document a more elaborate social organization at these sites and larger sedentary or semi-sedentary population sizes than previously known for that period (Russo, 1990, and pers. comm.).

Most of these studies focused on the coastal sites, as have subsequent summaries and discussions. Recent work on the interior has made significant advances in documenting the extent and intensity of inland resources, especially in the Big Cypress and Everglades parks (Ehrenhard *et al.,* 1978, 1979; Ehrenhard and Taylor 1980; Ehrenhard *et al.,* 1980; Taylor and Komara 1983; Taylor, 1984, 1985). Griffin's (1988) synthesis of the Everglades Park data is the defining work on south Florida archaeology to date. Athens (1983) summarized some of the results of the Big Cypress survey, but more analysis of this data resource is needed.

Beriault and colleagues (1981) reported on salvage excavations at Bay West Nursery (8CR200). Their description of the site includes a well known but rare and infrequently documented Early and Middle Archaic use of ponds for cemeteries.

In 1995, Widmer and Story began an ongoing investigation at the Key Marco Midden (Widmer, 1996). In the first season they excavated with the help of graduate students and volunteers. The results of their work have appeared in the *Florida Anthropologist*.

In the last two decades the pressure of development as well as a recognized need for preservation or mitigation of prehistoric sites has led to a number of reports by commercial cultural resource management consultants. While most of these reports are limited in scope due to restriction to a small tract of land, many have produced useful summaries of regional archaeological, as well as insightful analysis of the relationship between site types and location and ecotypes (Almy and Deming 1982, 1986a, 1986b, 1986c, 1987, Austin 1987, Carr and Allerton 1988a, 1988b, Deming and Almy 1987, 1988, Fay and Carr 1990, Fuhrmeister et al. 1990, Martinez 1977, Miller and Fryman 1978, Swift and Carr 1989).

Lee Counties. It is an ongoing effort of the Society to publish and disseminate reports and manuscripts (Lee et al. 1993, 1997, 1998, Beriault 1973, 1982, 1986, 1987, Beriault and Strader, 1984). Many of these reports deal with small interior seasonal sites. In addition, Beriault has provided several unpublished manuscripts as to site types and areas (Beriault 1972, 1987).

A site search with the Florida Division of Historic Resources indicated that there are two archaeological sites previously recorded for Section 27. These are 8CR92 and 8CR477 and are characterized as scatters of shell refuse with the presence of some sand-tempered plain ceramics in the case of 8CR92 situated on xeric areas to the west of the subject parcel.

In July 2005, AHC performed a Phase I cultural resource investigation at the Fleischmann parcel to the north of the subject parcel (Beriault 2005). This testing resulted in the discovery of one archaeological site, the Lucky Lane Site (8CR925), which is characterized as a shell scatter in the southeastern portion of the parcel. AHC personnel investigated the northern portion of the Zoo at Naples parcel (the area of the parcel originally owned by pioneer botanist Henry Nehrling) in 2006 (Carr et al. 2006). The AHC conducted a phase 1 cultural resource survey of the Gordon River Greenway, recording site 8CR1063 in July, 2007 (Beriault et al. 2007).

CULTURAL SUMMARY

Stirling was the first to distinguish the indigenous prehistoric cultures of southern Florida in 1936 by defining a Glades cultural area, including all of south Florida (Carr *et al.*, 1994b: 9; Milanich, 1994:5-6). Griffin (1988) pointed out that this was not formulated as a strict cultural area, but it was rather a geographic region with some common cultural traits. Kroeber (1939), in a review of North American prehistory, utilized a slightly different term, the "South Florida Area," basing his definition on both environmental and cultural factors. Subsequently Goggin delineated more particular boundaries for southern Florida and divided the region into three sub-areas: "Okeechobee" around Lake Okeechobee, "Tekesta" for southeast Florida and the Florida Keys, and "Calusa" for Southwest Florida (Carr *et al.*, 1994b: 10; Goggin, 1947:114-127).

Following Goggin's study, subsequent researchers have refined or altered the cultural distinctions attributed to southern Florida's prehistoric populations. There has been criticism that Goggin's names and definitions were based on historic accounts of the main (proto) historic groups found in the respective regions and not on the archaeological evidence of spatial, temporal, and cultural differences (Sears, 1966; Griffin, 1974; Carr and Beriault, 1984; Griffin, 1988). Griffin, in particular, questioned the distinctions. He believed that South Florida cultures varied only by local environmental conditions and ceramic exchange rates. Griffin believed the inhabitants of prehistoric southern Florida were mainly dwelling on the coast and that the interior was nearly uninhabited and under-utilized. Griffin designated the entire southern Florida region as the "Circum-Glades" area (Eck, 1997:5; Griffin, 1974:342-346). This new designation for the area was furthered by a widely circulated book on Florida archaeology by Milanich and Fairbanks (1980). Griffin later (1988) retreated to some extent from his earlier position as further research (particularly by Ehrenhard, Carr, Komara, and Taylor in the Big Cypress and Carr in the eastern Everglades in the 1970s and 1980s) showed abundant sites (and concomitant use and habitation) in the interior and Everglades.

Carr and Beriault, in particular, have taken issue with the concept of a Circum-Glades region. Carr's research in the Big Cypress and Everglades and his subsequent analysis demonstrating variation of key cultural markers (particularly in decorated ceramics) formed the basis for this contention. There is abundant evidence for cultural (and probably political or tribal) diversity in the various areas of south Florida. Carr and Beriault particularly noted and defined differences between the lower southwest Florida coast, which they termed the "Ten Thousand Island" region, and the area to the north, which they called the "Caloosahatchee" region. This latter area they believed to be the seat of the historic Calusa chiefdomship, although previous (and some subsequent) researchers have called the entire southwest Florida from Cape Sable to the Cape Haze peninsula (and beyond) in Charlotte County "Calusa."

Griffin, in his definitive 1988 synthesis on Everglades archaeology, attempted to reconcile and refine some of the conflict in the definition of south Florida prehistoric and historic culture areas. As stated by Carr and colleagues (1994b), "the issue...appears in part to be one of trying to

determine the significance of regional and temporal variation, rather than whether these differences are real." There is evidence that changes through time in regional political affiliations or realties makes any model *not* addressing this complex issue two-dimensional. The Calusa hegemony that was in place by the time of the arrival of Europeans may have begun as early as 800 AD in the Ten Thousand Island "district" or area (Griffin, 1988:321; Carr *et al.*, 1994b:12). There is currently ongoing research to further refine present thought as to cultural affiliations in south Florida. It would seem only a matter of time before new directions and emphases provide a more accurate summation of south Florida cultural affinities.

Using the present models, the coastal zones of Collier County and southern Lee County contain three distinct culture areas. Indian Hill on Marco Island lies thirty miles from the projected interface by Carr and Beriault (1984) of the Caloosahatchee area (called the "the 'heartland' of the Calusa," Carr *et al.*, 1994b:12) to the north, and the Ten Thousand Islands area to the south. At a yet undefined point to the east lies the Okeechobee cultural area, but the boundary, if it is a definite, fixed one, is likely to occur in the vicinity of the Immokalee rise forty miles or more to the northeast of Indian Hill. Further work is in progress by Carr to address the issue of where the southwest boundaries of the Okeechobee culture area occur.

TEMPORAL PERIODS AND ADAPTATIONS

At the same time that the south Florida archaeological cultural models have evolved over the past 60-plus years, so have the temporal markers or framework on which we base evolution of that culture. Much of this latter effort has resulted from comparisons made between the recovered artifacts from the 100-year period of scientific and *non*scientific excavation and collection by the various individuals and institutions (and others) enumerated in part above. This Floridian effort must be seen against the broader background of archaeological work in eastern North America and the New World as a whole. All of these efforts have been mutually complimentary and certainly not exclusive.

In south Florida, the following periods and adaptations are generally accepted. Part of this chronology involving the later or Formative period is called the Glades sequence in honor of Goggin, the greater part of whose work in defining the ceramic sequence or markers has withstood the test of time and subsequent criticism (Goggin, 1939, 1947, 1949c). From Goggin's day to present, pottery variability in form, substance, and decoration has proven useful for providing time markers, at least during the archaeologically-brief (± 3500 year) period spanning the late Archaic and Formative periods that it was produced. Other artifact types and their variations have, to present, proven somewhat less reliable as absolute indicants of prehistoric age. Radiocarbon dating, a phenomena of the last 30-plus years, provides, within the standard deviation expressed in plus-or-minus years BP (before present), a relatively absolute date for a given sample and provides a yardstick to measure traits or distinctions in provenienced artifacts. Determining and adequately defining what traits we can discern against this absolute is part of the ongoing function of the regional archaeological effort.

The following information is generalized and abbreviated. The dates are approximate; transitions between periods are in reality more gradual that the manner they are expressed for convenience.

PALEO PERIOD (14,000 - 8,500 BP)

During the Paleo Period, the first Native Americans began moving into the southeastern portion of North America and Florida. Most evidence of their presence in Florida can be reliably dated to about 10,000 BP.

There are no known Paleoindian sites in Collier County. Several are documented from elsewhere in south Florida, including Warm Mineral Springs and Little Salt Springs in Sarasota County (Cockrell and Murphy, 1978; Clausen and Gifford, 1975), Harney Flats in Hillsborough County (Daniel and Wisenbaker, 1987) and the Cutler Fossil Site in Dade County (Carr, 1986).

During this period, the terminal Wisconsian ice age, the climate was probably less extreme, with cooler summers and warmer winters. The climate was also drier, and sea levels were lower (Carbone, 1983; Allerton and Carr 1988a; Griffin, 1988).

One reason that possible Paleo period sites have not been discovered in Collier and Lee Counties is that the shoreline may have been as much as 100 miles further west due to lower sea levels. Drier conditions may have made the interior very inhospitable, and the shallow estuarine and littoral sites that existed were flooded by post-ice age Holocene sea rises.

Any possible interior sites from the Paleo Period may be unrecognizable due to lack of diagnostic artifacts, subsequent reuse of site areas, low population density, and few permanent camps. These and other factors may help explain the absence to date of identifiable Paleo period sites in Collier and Lee Counties.

ARCHAIC PERIOD (8,500 - 2,500 BP)

The Archaic period reflects a post-Pleistocene shift in adaptation marked by an increase in the seasonal exploitation of a broad spectrum of food resources, a more restricted use of territory due to regional specialization, and more semi-sedentary habitation sites. No ceramics are known until the Late Archaic. During the Archaic, regional specializations became more marked, not only with material culture but also with distinct local utilization of local plant and animal resources.

As mentioned above, there is, as yet, no firm evidence of human presence in southwest Florida during the Paleo period. This apparently is also true for the Early Archaic (8500-7000BP), as there is evidence of an environment too arid to support scrub oak, and the presence of shifting wind formed dunes (Watts, 1975; Widmer, 1983). No early Archaic sites are known from southwest Florida (Allerton and Carr, 1988:14).

By about 6500 BP mesic conditions began to spread, although localized xeric conditions continued (and still exist in some areas) through south Florida. Middle Archaic sites dating from this time are rare, although the Bay West Nursery site (8CR200) in Collier County and the Ryder Pond site (8LL1850) in Lee County near Bonita Springs provide evidence of occupation, as do several sites in southeast Florida. The Bay West site is a Middle Archaic cypress pond cemetery, associated with a lithic scatter. The Ryder Pond site is a similar mortuary pond site surrounded by pine flatwoods (Carr and Heinz, 1996). Beriault has also recorded several aceramic shell

scatters in coastal sand hills (paleo dunes), some of which may date to the Middle Archaic. Griffin (1988) summarizes evidence indicating that despite the rise of available surface water, brackish estuaries and other major modern landscape features had not formed, and population (or repopulation) was still sparse.

During the Archaic period sea levels began to rise at a fairly rapid rate, estimated at 8.3 cm. per 100 years 6000-3000 BP, and 3.5 cm per 100 years afterwards (Scholl *et al.,* 1969), although whether sea levels were steadily rising or oscillating is still unclear (see Griffin 1988; Allerton and Carr, 1990 for recent reviews of the literature). Data is somewhat difficult to sort out as sea level rise was accompanied by both shore regression and transgression in places. As conditions became wetter (and warmer) in the interior, cypress swamps and hardwood sub-tropical forests established themselves by about 5000 BP (Carbone 1983, Delcourt and Delcourt 1981).

By late Middle or early Late Archaic times (4000 years BP) there were significant shell mounds and middens on Horrs Island, Marco Island, and elsewhere in the coastal regions, suggesting that the estuary system had been established and was being utilized to provide the subsistence basis for denser populations and semi-sedentary settlements (Morrell, 1969; Cockrell, 1970). At Useppa Island in Lee County, excavations have provided radiocarbon dates from pre-ceramic shell middens ranging between roughly 4900 BP and 5600 BP, suggesting that the Middle Archaic as well as Late Archaic periods saw a growing dependence on shellfish resources (Milanich *et al.*, 1984). There are aceramic coastal sand hill and interior wetland sites as well, but these have not been demonstrated to be Archaic despite some investigators equating aceramic with preceramic. Radiocarbon dates for these sites would clarify this point.

Allerton and Carr (1988) noted that a number of stratified sites in the wet mangrove and marsh areas of the Everglades, as well as on Horrs Island, contain Archaic preceramic horizons, although it is unclear if aceramic was equated with preceramic. Additional supporting evidence of interior use by Archaic peoples will provide a new dimension to the archaeological understanding of Archaic resource utilization. Allerton and Carr point out that if the wet tree islands were initially used by Archaic people, then at least some of the hardwood hammocks in swamp environments were raised in elevation (with subsequent changes in vegetation) due to human activities. Post-Archaic people extensively utilized these hammocks and continued to advance their development as distinct geomorphic features. This is obviously an area where additional archaeological investigations have a potential to contribute to understanding the interaction of geomorphic and cultural evolution in southwest Florida.

Toward the end of the Archaic there was the introduction of fiber-tempered pottery into the archaeological record, often used as a marker of the Orange Phase, commencing at about 4000 BP, either coincident with or soon after the development of the extensive shell middens. The Late Archaic Orange Phase subsistence strategy is characterized by intensive use of shellfish and marine resources, as well as being marked by an accelerated trend toward regional specializations.

A number of the large shell middens on Marco Island (Cockrell, 1970), Horrs Island (Russo n.d.), Cape Haze (Bullen and Bullen, 1956), and elsewhere date from this period or earlier, as they contain fiber-tempered ceramics, although there are known aceramic (preceramic?) levels

below the Orange Phase deposits that may date to the Middle Archaic. These shell middens are usually capped by deposits from later occupations as well.

FORMATIVE STAGE OR GLADES PERIODS (2500 BP - 500 BP)

The Formative or Glades adaptation, based on hunting, fishing, and the harvesting of shellfish and plants, was similar to the Archaic, but was characterized by increasing specializations in gathering strategies and tool-making. Earlier writers have typed this hunter-gatherer society as primitive or "low-level" (Kroeber, 1939). However, there is certainly evidence from the specialization of tools, from the beautifully-executed wood carvings from Key Marco in Collier County and those from Fort Center near Lake Okeechobee (Cushing, 1897; Sears, 1982), and from the historic accounts of the Calusa hegemony, that the south Florida area had an advanced culture that Goggin (1964) has called a "stratified non-agrarian society."

The preceding Late Archaic late Orange phase (also known as the transitional phase) was marked by changes in pottery, and terminated with the relatively rapid replacement of fiber-tempered pottery with sand-tempered, limestone-tempered, and chalky "temperless" pottery. It was also characterized by changes in ceramic style and often by reduction in the size of stone projectile points.

The Formative Stage (beginning about 2500 BP) is divided in south Florida into the Glades Periods sequence. Subsistence adaptation is marked by a narrowing spectrum of resource use, as well as continued trends toward regional diversity and ecological specializations, marked in part by the proliferation of inland resource extraction encampments.

Formative Period cultural evolution eventually led to increased political sophistication, perhaps initially of modest dimensions, but culminating in broad regional political alliances and regulation of materials and goods (*i.e.* resources) between the coast and inland areas (Milanich and Fairbanks, 1980). By protohistoric and contact times the Calusa were the dominant tribal group, gaining broad political influence and at least partial control over much of south Florida as far north as central Brevard County. Historically, the main Calusa village has been regarded as "Calos" on Mound Key in Estero Bay in Lee County, although 50 to 70 large villages were under direct Calusa control by contact times (Griffin, 1988).

During the Formative Periods, village sites grew to the proportions of large multi-use complexes, particularly along the coast and barrier islands of southwest Florida. Some of the projected intra-site functions of the elements of these complex shellworks were as temples, canals, causeways, temple and platform mounds, courtyards and watercourts. Current research involving the excavating of large contiguous areas of these shell mound complexes is beginning to establish demonstrable uses for the features of these large sites, upon which heretofore were merely speculated (Widmer, 1996).

Tidal estuary rivers and inland hammocks along deep water sloughs, marshes, and permanent ponds were seasonally visited for extraction of natural resources, and are now marked by small to relatively large black dirt middens, some of which may have been semi-permanent hamlets. The pine and cypress flatwoods appear to have supported few sites, although areas around Lake

Trafford and other rich interior areas developed substantial sites, including sand mounds, and may be more similar to the Okeechobee cultural area than to the coastal cultures.

In 1992, Dickel and Carr excavated a Deptford Period burial mound (the Oak Knoll Site) in the Bonita Bay Tract north of the Imperial River. Exotic trade items and seventy or more human burials were among the material findings. The resulting conclusions and subsequent surveying and testing of the Bonita Bay Shell works (8LL717) suggest social stratification and complexity may extend further back into the past than the Formative period (Dickel and Carr, 1992).

Coastal sites (shell middens) reflect a predominate dependence on fish and shellfish, wild plant foods and products, and larger inland game. The inland sites show a greater reliance on interior resources, including large, medium and small mammals, turtle, small freshwater fish, alligator, snake, frogs, and, sometimes, freshwater shellfish. Interior and coastal resource exchange can be documented by the consistent finds of moderate amounts of marine shell in many interior middens, as well as interior resources in coastal middens.

The Formative Stage (with a nod to Goggin) has been often termed the Glades cultural tradition. Much of this "tradition" is focused on decorated ceramics, the minority in the archaeological record, although the majority of recovered (rim) sherds are plainware. However, despite this, pottery (and its decorations) is usually utilized as the major temporal marker(s) for fitting sites into a temporal framework. Changes in pottery do not represent mere changes in artistic motifs, but reflect inter- and intra-regional trade contacts and outside cultural influences (possibly through exogamy, shifting of populations, and even the through evolution of a culture through time). Whatever the influences, the Glades tradition is continuous from post-Archaic times to contact times.

Despite the fact that exogamy is likely to have been practiced, traders or other specialists probably moved between major cultural areas in small numbers, and genetic flow probably accompanied cultural exchange, although perhaps not on the same scale. This may have increased in later times due to use of traditional obligations of kinship and intermarriage to stabilize alliances that were not codified into a formal legal system.

The following table has been modified from several sources, but it is predominantly based on Milanich and Fairbanks (1980), Griffin (1988), and Allerton and Carr (1990). Dates have been rounded somewhat and translated to Before Present (BP). There are some differences of opinion in the dates, particularly about the timing of the Glades Ia and Ib division.

Table 1. **GLADES CULTURAL SEQUENCE**

Glades Ia (2500 BP - 1500 BP)	First appearance of sand tempered plain pottery, but little else to mark a difference and the preceding Late Archaic. Sand tempered plain remains a predominate type throughout the Glades sequence.
Glades Ib (1500 BP - 1250 BP)	First appearance of decorated sand-tempered ceramic (Ft. Drum Incised, Ft. Drum Punctated, Cane Patch Incised,

	Turner River Punctate), plainware common. Pottery rim grooving and incision decorations become widespread.
Glades IIa (1250 BP - 1100 BP)	First appearance of Key Largo Incised, Sanibel Incised, Miami Incised, and plainware is common. Distinction between ceramics of southeast and southwest Florida becomes apparent. Ten Thousand Island area distinct from Caloosahatchee area. First mound construction- increased social stratification? Population size may have approximated that at contact.
Glades IIb (1100 - 1000 BP)	First appearance of Matecumbe Incised; Key Largo Incised common on east coast, Gordon's Pass Incised common on the west, and plainware common throughout.
Glades IIc (1000 BP - 800 BP)	First appearance of Plantation Pinched, but few decorated wares with a preponderance of plainware (there is some evidence of population reduction- perhaps due to a cataclysmic event). Non-local pottery (*e.g.* St. Johns Plain and Check Stamped, Belle Glade Plain) appears.
Glades IIIa (800 - 600 BP)	First appearance of Surfside Incised, increasing quantities of St. Johns pottery (especially on East Coast), and Belle Glade pottery.
Glades IIIb (600 BP - 500 BP)	Glades Tooled rims appear (rare on West Coast), zoned punctate designs, but general decline in incised decoration. Belle Glade ceramics common on west coast. St. Johns ware present but rare on West Coast, common on East Coast.
Glades IIIc (500 BP - 300 BP)	Continuation of IIIb ceramics, with pronounced flaring of rims and embossing on Glades Tooled ceramics. Mound burial construction less common with intrusive burials into existing mounds, appearance of European goods, plainware common.

By European contact times (the first half of the 16th century), the southwest coast of Florida was maintaining a vigorous, possibly expanding political chiefdom with a broad network of alliances, as well as a rich and ancient cultural tradition without an agricultural base. However, direct conflict with Europeans and, more importantly, exposure to European diseases led to the rapid decline of the Calusa. By the mid 1700s their numbers had greatly diminished. The remnants of this once-powerful tribe may have left south Florida in the 1760s with the Spanish for relocation in Cuba. Others may have become indistinguishable from Spanish Cuban fishermen who worked the great fishing "ranchos" in the Pine Island Sound region catching and salting fish for export to Cuba. Other groups of Native Americans may have fused with the Creek-derived Seminoles.

In the late 1700s, members of the Creek tribe were forced into Florida from Georgia and Alabama. They were later called Seminoles, from the Spanish term "cimmarones." Pressures from colonial (and later) white encroachment on their traditional territories forced them into the Big Cypress and Everglades area by the 1830s. By this time, most of the cultural identity of pre-contact times had been lost, although some of the Calusa subsistence strategies may have been partly adopted by Seminoles. A number of Seminole period sites have been documented on earlier Glades middens. This coincidence may in part reflect the paucity of high land in the interior (Ehrenhard *et al.*, 1978, 1979, 1980; Ehrenhard and Taylor, 1980; Taylor and Komara, 1983; Taylor, 1984, 1985). Older midden sites (particularly those called "black dirt" middens) can be rich agriculturally as well as archaeologically, making these foci for historic Seminole gardens and fruit groves.

Seminole periods in south Florida are divided into I (1820-1860), II (1860-1900) and III (1900-1940) (Ehrenhard *et al.*, 1978). Post-1940 Seminole camps are designated "Late Seminole" in some reports. These designations reflect the different stages of Seminole migration into south Florida, Seminole displacement and active conflict with the expanding American culture, and the eventual refuge by Seminole remnants in Big Cypress and Everglades regions. Military records, and, in particular, several sketch maps by military personnel done in the 1830s and 1840s and the Ives military map of South Florida (1856) shows evidence of investigations at and near "Malco Inlet," "Casimba," "Good Land," and "Cape Romans."

SEMINOLE WARS IN THE SOUTHWEST FLORIDA AREA

The advent of the Second and Third Seminole Wars (1834-38, 1855-58) disrupted the peaceful settlement of the Southwest Florida region. There were a number of forts, "temporary" and permanent, established along the Caloosahatchee River during this time. Fort Dulaney was established at Punta Rassa near the mouth of the Caloosahatchee in 1837 and was occupied intermittently through 1841, and again in 1855. After a hurricane destroyed Ft. Dulaney in 1841, Fort Harvie was established upriver. The name of this fort was changed in 1850 by its commander General Twiggs to honor his new son-in-law, Col. Abraham Myers. Fort Myers was thus created, and became the chief fort of the region.

From this central administrative point, a line of forts was established up the Caloosahatchee River. They were: Fort Denaud, Fort Adams, Fort Thompson, and Fort Center on Fisheating Creek leading into Lake Okeechobee. Other forts and "temporary depots" were established south into the Big Cypress Swamp such as Fort Simon Drum, Temporary Depot Number One, Fort Doane, Fort Simmons, Fort Keis, Fort Foster, Fort Shackleford, and others.

A number of military expeditions were sent south along the coast during the Second and Third Seminole Wars with the objectives of interdicting trade in guns and ammunition between the Seminoles and the Spanish-Cuban fishing community, and hunting and capturing Indians. General Thomas Lawson, who had just been appointed Surgeon General of the United States, commanded one of the early notable expeditions. Lawson's expedition left Fort Harvie (Fort Myers) in February 1838. Elements of Lawson's command explored the area in and around the Caxambas Point area, discovering two abandoned Indian villages in the Blackwater River/Palm Bay area. Other expeditions bivouacked at Cape Romano and Caxambas Point. Colonel Rogers,

of the ill-fated Parkhill expedition, wrote several dispatches from Cape Romano in the Caxambas area in 1858, describing the ambush of Captain Parkhill's party at the headwaters of Turner River. The Collier County Museum is the repository for a collection of military artifacts purportedly found by a local collector near Indian Hill in the early 1960s. This material may have originated with one of the various military expeditions stopping at Caxambas Point.

HOLE IN THE WALL SWAMP HISTORY

The Hole-In-The-Wall Swamp area has been the backdrop for a significant part of the earliest modern history for the Naples area. Much of this history is tied to that of a single family, the Franks, who established residences, farming and ranching activities in the area immediately north of the subject parcel by the 1930s. Eddie Frank Sr., was a successful operator of the first auto repair shop in Naples, ran one of the first hardware stores, was the purported inventor of the Swamp Buggy, an early homemade all-terrain vehicle used for hunting and traversing the back country in South Florida. Mr. Frank and several of his sons lived near the Hole-In-The-Wall Swamp, developing part of the area as two golf courses and golf-course communities by the 1970s. Other families living near the subject parcel were the Smiths and Thurners, both of whom farmed in the general area. Immediately south of the parcel is an historic garden of introduced tropical plants begun in the early 1900s by botanist Henry Nehrling and expanded in later years by its then-owner, Julius "Junky' Fleischman under the name Caribbean Gardens.

METHODOLOGY

Prior to conducting fieldwork in the project parcel, relevant archives and literature were reviewed. This included, but was not limited to, studying previous archaeological reports for sites in Collier County, reviewing information from the Master Site File in Tallahassee concerning nearby sites, and examining USGS maps of the project area. Also, black and white and color aerial photographs from the project area, which could aid in revealing anthropogenic changes to the topography and floral communities, were interpreted.

Research Design

In 2007, the AHC conducted a phase I cultural resource assessment that resulted in the discovery of the Gordon River Historic Site (8CR1063). This site is characterized by historic refuse and oyster shell, and its proximity to the Nehrling Slat House 8CR975, suggested the possibility that the site may be associated with the historic botanist Henry Nehrling (Carr et al. 2006). The Phase II archaeological assessment of 8CR1063 was conducted to assess the extent and significance of this site. The investigations were conducted to collect material for analysis and more precisely determine site boundaries, chronology, and preservation integrity.

Fieldwork

The Phase II assessment included the excavation of seven meter-square test units placed on a grid. A datum was set southeast of the site and was given an arbitrary 1000N, 1000E designation (Figure 7). The units were placed in that area of the phase one shovel testing which had indicated a concentration of cultural material in the area. All test units were excavated to 25-50cm depth and always to culturally sterile zones. All excavated material was sifted through a 1/4" diameter mesh screen and all cultural material was collected and placed in self-sealing plastic bags.

Collections

Nine field specimen bags (FS-1 through 9) were recovered and sent to the AHC laboratory at Davie for cleaning and analysis (see Appendix 2).

Informants

In December 2006, Robert S. Carr interviewed Larry Luckey whose family lived in the 1960s immediately north of the site area on Lucky Lane north of the subject parcel. In December, 2007, David Tetzlaff of the Zoo of Naples was interviewed about his knowledge of the subject parcel. He indicated the power line right-of-way running south of Site 8CR1063 was originally placed there c. 1962 and the poles were replaced in 2005. During the 2005 pole replacement the easement was cleared.

SITE SUMMARY

State Site Number:	**8CR1063**
Site Name:	Gordon River Historic Refuse
Environmental Setting:	Historic slash pine flatwoods
Location:	Township 49S, Range 25E, Section 27
Site Type:	Historic artifact scatter
Site Function:	Refuse/ demolished structure
Description:	The site is a diffuse historic artifact scatter of shallow deposition with cultural material located no deeper than 10 inches below the surface. Seven test units yielded broken window and bottle glass, lead net weights, automotive glass and metal parts, and building elements such as cast concrete blocks, galvanized metal sheeting, and shell. It is possible that this shell originated from shell road material likely pushed onto the site as part of the clearing activity. Some shell material resembles worn shell hash mined from a beach environment and may be aggregate intended for use in mixing concrete. The site portion in the project parcel is roughly half circular in shape and measures approximately 40 meters (120 feet) north-south and 40 meters (120 feet) east-west (or 1600 square meters). A 1958 USGS map indicates that a structure occurred about 100 meters west of the site (Figure 1).
Chronology:	Historic: c. 1940s through 1950s
Collections:	Bottle glass, iron, nails (FS 1-9)
Previous Research:	Beriault et al. 2007
Preservation Quality:	Poor to Fair: Material has been redeposited onto the parcel through bulldozing
Ownership:	Public: Collier County
Significance:	Site is of minimal significance and is not eligible for listing on the National Register of Historic Places

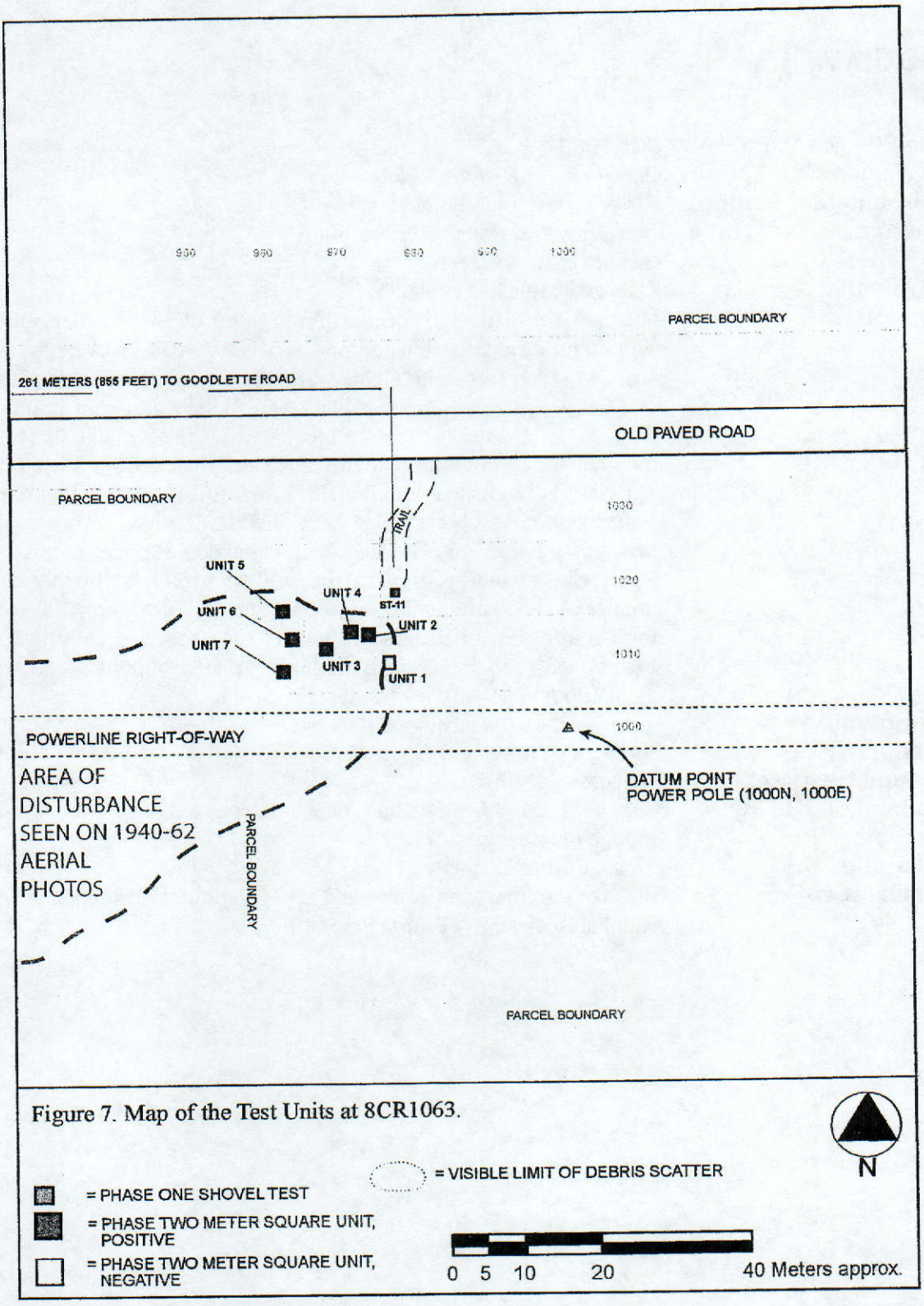

Figure 7. Map of the Test Units at 8CR1063.



Figure 8. Unit 3 Levels 1/2 showing sparse historic artifact scatter consisting of 1/4-inch thick window glass fragments and rusty iron fragments. This unit had the largest quantity of cultural material.

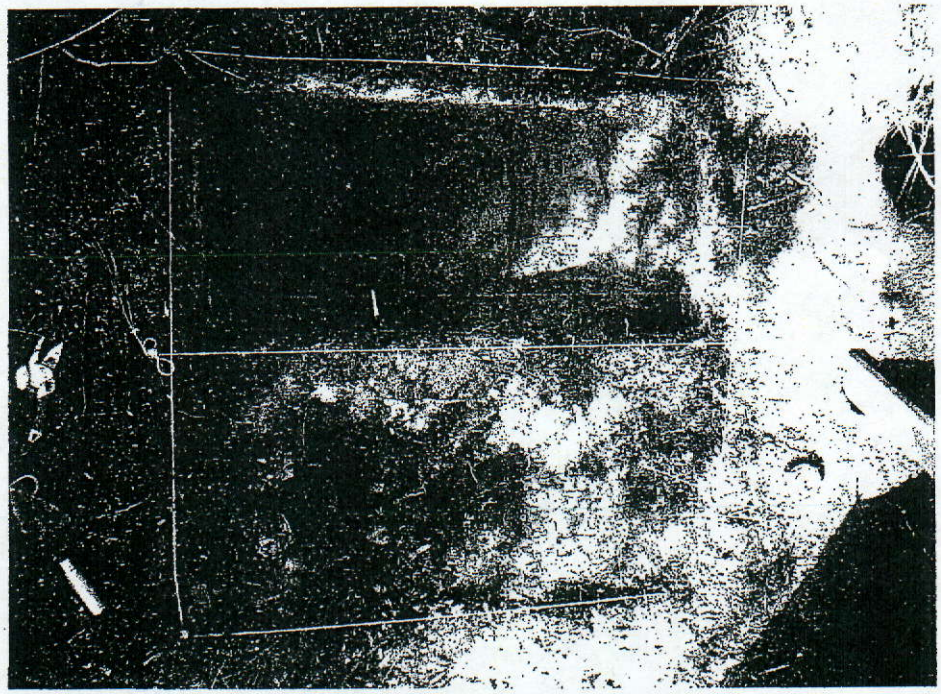

Figure 9. Unit 3 with one-half the unit taken down th Levels 2/3 showing abrupt and shallow transition to culturally-sterile naturally deposited whitish sands.

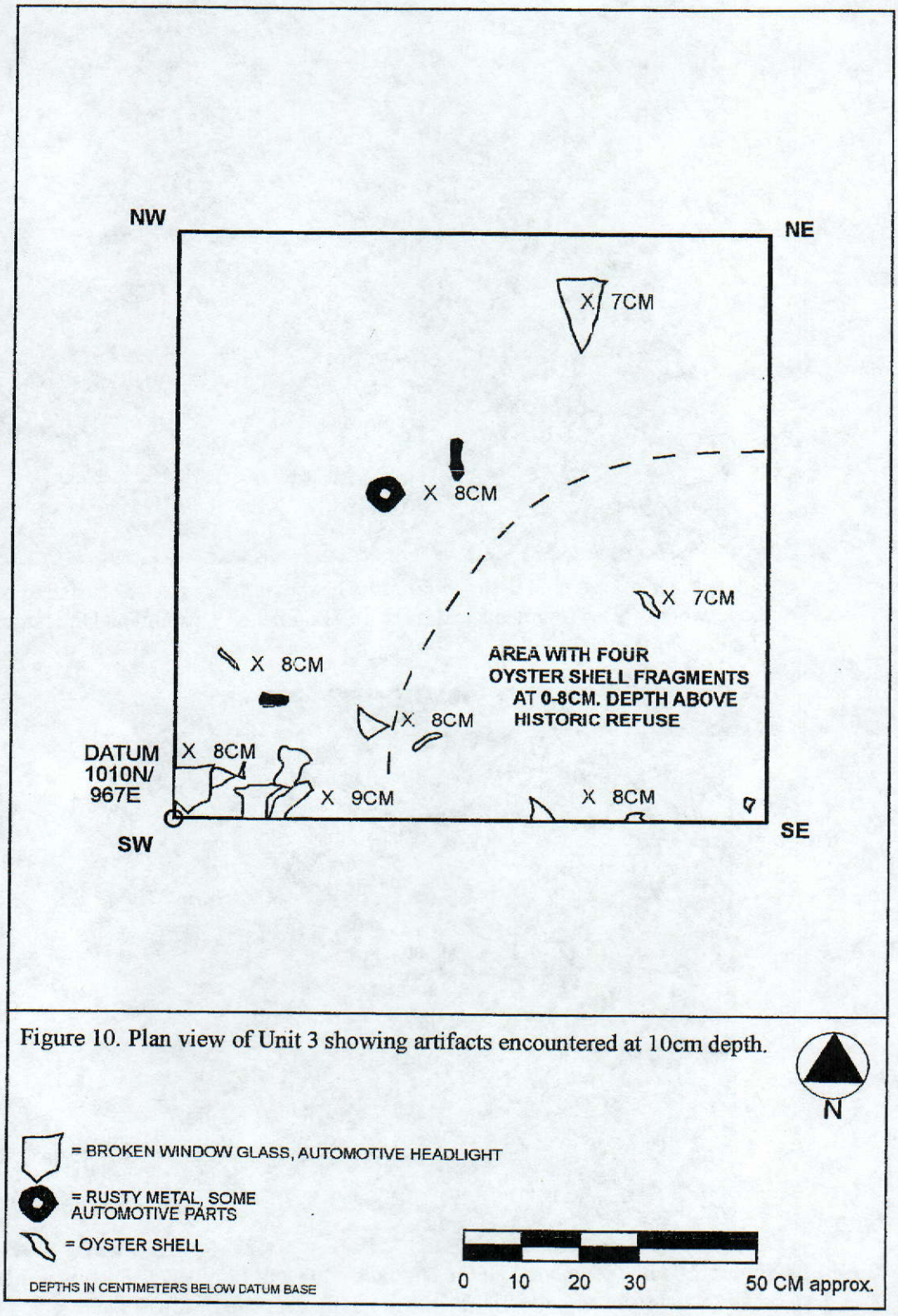

Figure 10. Plan view of Unit 3 showing artifacts encountered at 10cm depth.

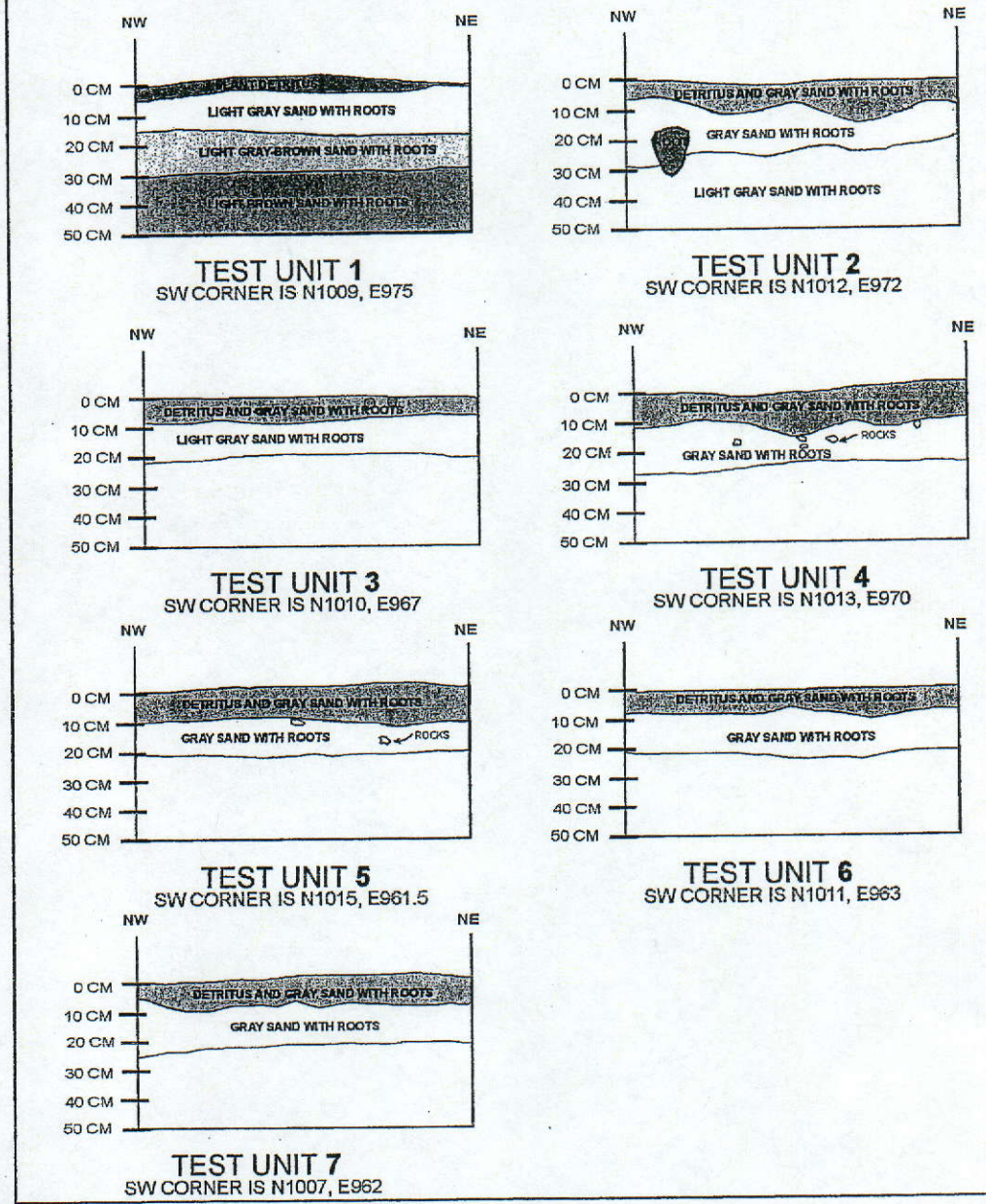

Figure 11. North wall profile of Unit 1-7 showing the soil contexts.



Figure 12. View west at Matt Betz and Scott Faulkner excavating Unit 4 at 8CR1063. Note the irregular, hummocky terrain, evidence of modern clearing/scraping.



Figure 13. Closeup view of scattered oyster shell observed in the powerline right-of-way southwest of 8CR1063.



Figure 14. View east a piece of 1" o.c. corrubated galvanized sheeting noted partially buried 4 meters north of Test Unit One. This is likely evidence of demolition and clearing of an old building.



Figure 15. View west at broken cinder block 5 meters west of Unit 3. Note hole to right of block where it was dislodged from the ground. portions of the block had been buried up to 25 cm. below ground surface and was the greatest depth below ground surface for any of the observed cultural material.

RESULTS AND CONCLUSIONS

This Phase II assessment of the Gordon River Historic Site (8CR1063) resulted in seven test units ($1m^2$) being dug across the site, which resulted in a more precise determination of its extent and significance. This assessment was conducted based on the phase 1 survey discovery of 8CR1063 (Beriault et al. 2007). It was considered possible that the site was associated with botanist Henry Nehrling who created a historically significant garden on a parcel several hundred meters to the south.

Site 8CR1063 is characterized by a historic artifact scatter and some structural pieces such as a CBS block and galvanized metal root sheeting. Surface material was located no deeper than 10 inches (25 cm) and averaging 0-12 cm in depth. Six of seven meter-square units were positive for cultural material. This material included oyster shell, worn shell beach hash (typical of mined aggregate material for mixing concrete pre-1954), a whiteware cup, bottle glass, ¼' thick window glass fragments, metal automotive parts, automotive headlight glass fragments, galvanized metal sheeting, cast concrete block fragments, a cast lead net weight, and unidentified iron fragments.

This material was recovered in an area exhibiting slight hummocking and irregular undulations indicative of mechanical (bulldozed) clearing and scraping. The disturbed area immediately south and west of the parcel site area is visible on aerial photographs as early as 1952 and possibly as early as 1940. Several of the larger pieces of building debris were semi-exposed, but partially buried and sometimes deeper than the smaller pieces of historic refuse. Most material was in a surfacial zone of recent detritus and sand generally represented as mechanically disturbed in the last 50+ years. No intact features were noted. The oyster (which may be from a redeposited prehistoric midden) was generally located above recent refuse at the near ground surface. Other shell material was worn "beach hash".

Historically, the site is part of approximately 70 acres of several combined parcels that were purchased circa 1952 by Julius Fleischmann, heir to the Fleischmann yeast, whiskey, and corn oil fortune. Mr. Fleischmann had been presented with a book written by Henry Nehrling, pioneer botanist, and had been intrigued enough to purchase Nehrling's old nursery (to the immediate south of the project parcel) together with additional land surrounding the original nursery. His plan was to create/open a botanical attraction utilizing the core area planted by Nehrling which he would call Caribbean Gardens. Fleischmann quickly began his improvements, dredging a series of lakes in the center of the parcel; creating broad, winding paths visitors could stroll; and building several structures, some of which were giant state-of-the art greenhouses. Much of the spoil borrowed from the lakes was used to create high ridges on which cactus and succulents could grow. Fleischmann created a palm walk and an "orchid cathedral" in a portion of the cypress swamp which he had filled. It was during this period that vintage aerial photographs show a whitish patchy disturbance south and west of the 8CR1063 site area. It is believed this may represent clearing activities originating c. 1940 that may have included the demolition of parts of Nehrling's slathouse and/or the demolition (by the mid to late 1950s) of

described as a small caretaker's cottage in the northwestern portion of the Caribbean Gardens parcel.

A total of nine bags of cultural material was collected from 8CR1063, one bag from each of the nine test units. Collected materials include marine shell characterized by oyster, mercernia, and other unidentified species. Five of the eight units had shell in the upper 15 cm of sandy sediment. These shells are redeposited, possibly from a prehistoric midden. The use of midden shell for road construction and even as a fertilizer additive is well documented in the Collier County area by co-author Beriault. It was also observed that a large quality of oyster shell was used in the Nehrling Slathouse, 8CR975 (Carr et al. 2007).

Artifacts associated with a structure that was either observed of collected include a concrete block, corrugated metal roof, or siding, approximately nine iron nail fragments, a lead fishing weight, bottle glass, and window pane glass. The nails are all round machine made, consistant with the mid-20th century. Most bottle glass sherds found are nondiagnostic, but generally appear mid-20th century. Several Coca-Cola bottle fragments are the only diagnostic artifacts. The bottle sherds are too small to date but the logo is consistent with a similar date. Other artifact types are auto related and include "Durlite Safety" glass – with that logo etched in to the glass – and fragments of a front headlight bulb. The bulb has no manufacturers mark, but is similar to types from the early 1950s.

The material dates from the late 1940s to mid 1950s. It's likely origin is either the demolition of a small cottage located about 100 meters to the west or another structure situated to the southwest closer to what is now Goodlette Road; and/or illicitly dumped refuse, a common occurrence in the area prior to scheduled county trash removal which was inaugurated c. 1960. Considering its distance from the road it is most likely associated with a demolished structure, as depicted in the 1958 USGS map (Figure 1). The site is not regarded as eligible for listing on the National Register of Historic Places because of disturbances caused by mechanical activity and a lack of significance. No in situ or intact features are evident in the site area.

It is the consultant's opinion that site 8CR1063 is a redeposit of historic refuse, probably representing bulldozing activities initiated by Julius Fleischmann shortly after his purchase of the property in 1952, and is of minimal significance. Although a thorough and systematic effort was made to record archaeological information during this Phase II investigation of the Gordon River Greenway Historic site (8CR1063) there is still the potential of artifacts and features related to Nehrling Gardens existing. Should subsequent development reveal this, relevant agencies and the consultant archaeologist should be contacted. In the event that human remains are discovered then the provisions of Florida Statue 872.05, the Unmarked Human Graves Act, will apply.

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Appendix 1. Field Specimen Log – 8CR1063

FS Number	Unit Number	Unit Level	Glass	Metal	Marine Shell	Misc.	Comments
1	1	1	None	2 iron fastners	n/a	n/a	
2	2	1	None	9 undent. iron frags.	n/a	Half of whiteware tea cup, ca. 1940s	
3	3	1	2 frags. of Coke bottle	brass lamp fitting 1 iron strap frag. Iron tube, 34 unidentified iron frags. 1 melted lead slag	8 oyster frags.	n/a	Glass includes window pane, "Duolite Safety105" auto pane, Coke bottle: mid 20th century
4	3	2	38 and 3 frags. of Coke bottle	2 frag. Lead 20 unident. Iron frag.	4 oyster shell frags.	n/a	
5	4	1	n/a	2 unident. frags.	4 oyster shell frags.	1 piece blue painted wood (pencil?)	
6	5	1	3 frags.	40 unident. iron frags.	55	1 Gun shell casing (brass) 1 unidentified	
7	5	2	n/a	3 iron nails 4 unident. Frags.	16 oyster 1 mercenaria frag.	n/a	
8	6	1	37 frags. and 23 pieces of a headlight	23 iron frags. Including 4 nail frags.	5	1 piece concrete wall or floor frag.	
9	7	1	20 frags. Including bottle glass	9 unident. iron frags. 1 lead sinker	n/a	1 piece concrete asphalt(?)	

Ent D (FMSF only)__/__/__



Survey Log Sheet

Florida Master Site File
Version 2.0 9/97

Survey # (FMSF only)_____

Consult *Guide to the Survey Log Sheet* for detailed instructions.

Identification and Bibliographic Information

Survey Project (Name and project phase) Phase II Cultural Resource Assessment of 8CR1063 Greenway Park Parcel

Report Title (exactly as on title page) A Phase II Archaeological Assessment of the Greenway Park Site (8CR1063), Gordon River Greenway Parcel, Collier County, Florida

Report Author(s) (as on title page— individual or corporate; last names first) Faulkner, Scott, Betz, Matthew A., Beriault, John G.

Publication Date (year) _2007_____ **Total Number of Pages in Report** (Count text, figures, tables, not site forms) _60_____

Publication Information (If relevant, series and no. in series, publisher, and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*: see *Guide to the Survey Log Sheet*.) Archaeological and Historical Survey Technical Report # 829

Supervisor(s) of Fieldwork (whether or not the same as author[s]; last name first) Carr, Robert S.

Affiliation of Fieldworkers (organization, city) Archaeological and Historical Conservancy(AHC), Davie, FL

Key Words/Phrases (Don't use the county, or common words like *archaeology*, *structure*, *survey*, *architecture*. Put the most important first. Limit each word or phrase to 25 characters.)

Survey Sponsors (corporation, government unit, or person who is directly paying for fieldwork)

Name Collier County Parks and Recreation Department

Address/Phone

Recorder of *Log Sheet* __John G. Beriault **Date *Log Sheet* Completed** _12__/22___/_07__

Is this survey or project a continuation of a previous project? θ No XYes: Previous survey #(s) (FMSF only)

Mapping

Counties (List each one in which field survey was done - do not abbreviate; use supplement sheet if necessary)

Collier County

USGS 1:24,000 Map(s) : Map Name/Date of Latest Revision (use supplement sheet if necessary): Naples North, rev. 1991

Description of Survey Area

Dates for Fieldwork: Start 12__/_3_/_07__ End _12_/_13_/_07__ **Total Area Surveyed** (fill in one) _____ hectares ___one____ acres

Number of Distinct Tracts or Areas Surveyed ___one_____

If Corridor (fill in one for each): **Width** _____ meters _____ feet **Length** _____ kilometers _____ miles

If Corridor (fill in one for each): Width _____ meters _____ feet Length _____ kilometers _____ miles

Survey Log Sheet of the Florida Master Site File

Research and Field Methods

Types of Survey (check all that apply): x archaeological θ architectural θ historical/archival θ underwater θ other: _____

Preliminary Methods (4Check as many as apply to the project as a whole. If needed write others at bottom).

θ Florida Archives (Gray Building)
θ Florida Photo Archives (Gray Building)
x FMSF site property search
θ FMSF survey search
θ library research- *local public*
θ library-special collection - *nonlocal*
θ Public Lands Survey (maps at DEP)
x local informant(s)
θ local property or tax records
θ newspaper files
θ literature search
θ Sanborn Insurance maps
θ windshield
θ aerial photography
x other (describe)grayline aerial photographs and USGS Map _____

Archaeological Methods (Describe the proportion of properties at which method was used by **writing in** the corresponding letter. Blanks are interpreted as "None.")

F(-ew: 0-20%), **S**(-ome: 20-50%); **M**(-ost: 50-90%); or **A**(-ll, Nearly all: 90-100%). If needed write others at bottom.

θ Check here if **NO** archaeological methods were used.

___ surface collection, controlled
___ surface collection, uncontrolled
___ shovel test-1/4"screen
___ shovel test-1/8" screen
___ shovel test 1/16"screen
___ shovel test-unscreened
___ other screen shovel test (size: ____)
___ water screen (finest size: ____)
___ posthole tests
___ auger (size:____)
___ coring
___ test excavation (at least 1x2 M)
___ block excavation (at least 2x2 M)
___ soil resistivity
___ magnetometer
___ side scan sonar
___ unknown

_A__ other (describe): 1 meter by 1 meter square test unit _____

Historical/Architectural Methods (Describe the proportion of properties at which method was used by **writing in** the corresponding letter. Blanks are interpreted as "None.")

F(-ew: 0-20%), **S**(-ome: 20-50%); **M**(-ost: 50-90%); or **A**(-ll, Nearly all: 90-100%). If needed write others at bottom.

Check here if **NO** historical/architectural methods were used.

___ building permits
___ commercial permits
___ interior documentation
___ other (describe): Aerial Photographs
___ demolition permits
_A_ exposed ground inspected
_A_ local property records
__A neighbor interview
___ occupant interview
___ occupation permits
___ subdivision maps
___ tax records
___ unknown

Scope/Intensity/Procedures Review of USGS maps and aerial photographs followed by excavation of seven one meter-square test units in previously identified site 8CR1063, profiling and assessment of 8CR1063.

Survey Results (cultural resources recorded)

Site Significance Evaluated? XYes θNo If *Yes*, circle NR-eligible/significant site numbers below.

Site Counts: Previously Recorded Sites ___ One _____ **Newly Recorded Sites** None _____

Previously Recorded Site #'s (List site #'s without "8." Attach supplementary pages if necessary) CR1063 _____

Newly Recorded Site #'s (Are you sure all are originals and not updates? Identify methods used to check for updates, ie, researched the FMSF records. List site #'s without "8." Attach supplementary pages if necessary.) _____

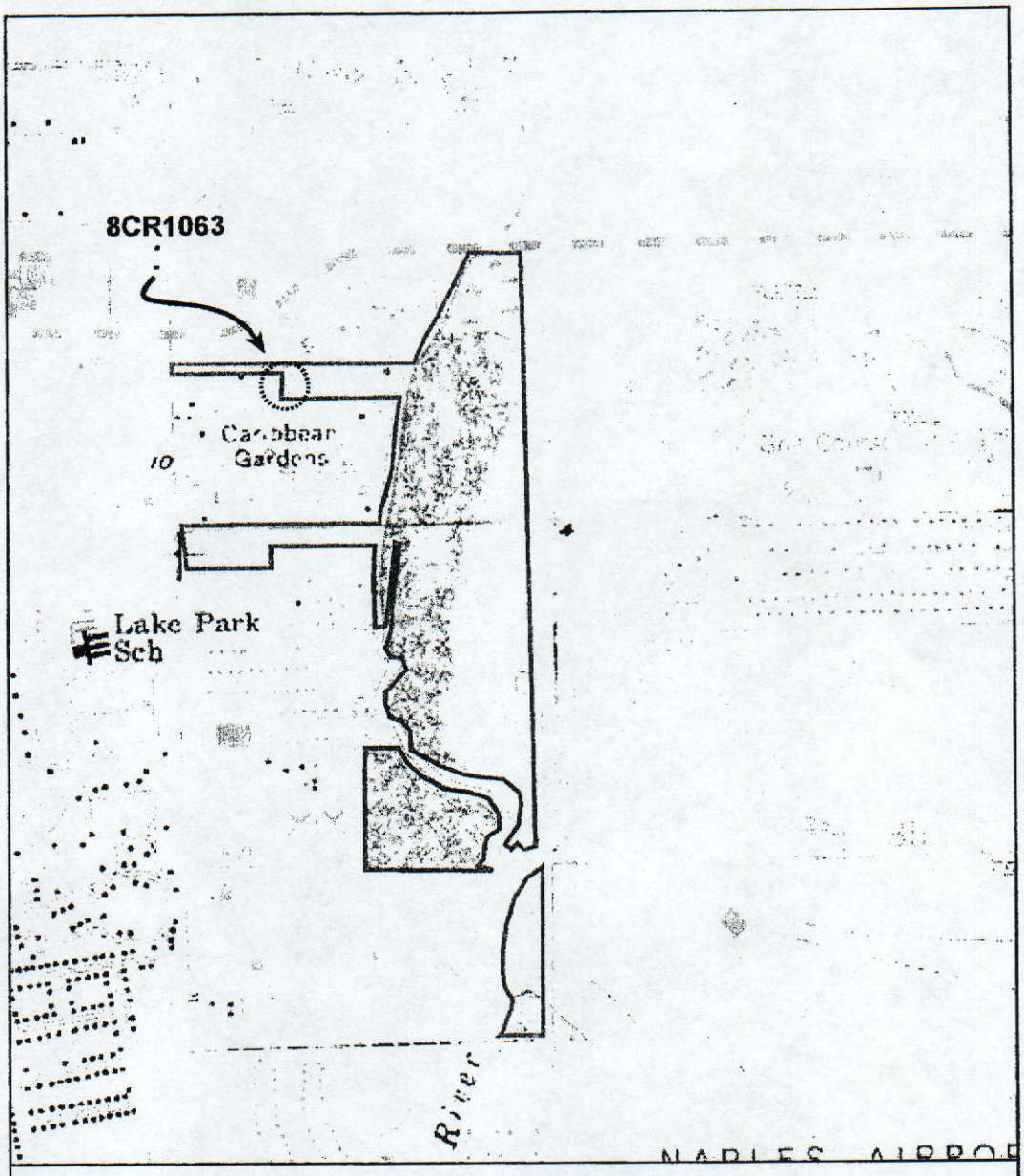
Site Form Used: X SmartForm θ FMSF Paper Form θ Approved Custom Form: Attach copies of written approval from FMSF Supervisor.

DO NOT USE ♣♣♣♣♣♣SITE FILE USE ONLY♣♣♣♣♣♣DO NOT USE

BAR Related
θ 872 θ 1A32
θ CARL θ UW

BHP Related
θ State Historic Preservation Grant
θ Compliance Review: CRAT # _____

ATTACH PLOT OF SURVEY AREA ON PHOTOCOPIES OF USGS 1:24,000 MAP(S)



Map of the Gordon River Greenway Parcel area showing location of the Gordon River Refuse Site, 8CR1063.

TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, 1958, REV. 1991

00

☐ Original
X Update
(give site#)

ARCHAEOLOGICAL SITE FORM
FLORIDA MASTER SITE FILE
Version 2.3 7/05

Consult *Guide to Archaeological Site Form* for detailed instructions.

Site #8CR1063
Recorder Site#_____
Field Date 12/13/07
Form Date 12/22/07

Site Name(s) **Gordon River Historic Refuse** *Multiple Listing [DHR only]*
Project Name **Gordon River Greenway and Preserve 2007.34** *FMSF Survey #*
Ownership: ☐private-profit ☐private-nonprofit ☐private-individual ☐private-unspecifd. ☐city Xcounty ☐state ☐federal ☐foreign ☐Native American ☐unknown
USGS **7.5 Map Name & Date Naples North, rev. 1991** County **Collier**
Township **49S** Range **25E** Sections **27** ☐ Check if Irregular Section; Qtr. Section (check all that apply): ☐NE ☐NW xSE ☐SW
Landgrant _____ Tax Parcel # (s)_____
City / Town (if within 3 mi.) **Naples** In Current City Limits? X Yes, partially ☐no ☐unknown
UTM: Zone ☐16 X 17 Easting _____0 Northing _____0
Address / Vicinity of / Route to **Intersection of Golden Gate Parkway and Goodlette Road, thence south on Goodlette 300 feet thence east approx. 500 feet down blocked overgrown access road. Site lies to the south and extends southward to the Naples Zoo.**
Name of Public Tract (e.g., park)_____

~~TYPE OF SITE (Check all choices that apply; if needed write others in at bottom)~~

SETTING *

X Land - *terrestrial*
☐ Cave/Sink - *subterranean*
- ☐ terrestrial
- ☐ aquatic
- ☐ intermittently flooded

☐ Wetland - *palustrine*
- ☐ usually flooded
- ☐ sometimes flooded
- ☐ usually dry

☐ Lake/Pond - *lacustrine*
☐ River/Stream/Creek - *riverine*
☐ Tidal - *estuarine*
☐ Saltwater - *marine*
- ☐ marine unspecified
- ☐ "high energy" marine
- ☐ "low energy" marine

☐ Other_____

STRUCTURES - OR - FEATURES *

☐ aboriginal boat	☐ fort	☐ road segment
☐ agric/farm building	☐ midden	☐ shell midden
☐ burial mound	☐ mill unspecified	☐ shell mound
☐ building remains	☐ mission	☐ shipwreck
☐ cemetery/grave	☐ mound unspecified	☐ subsurface features
x dump/refuse	☐ plantation	☐ surface scatter
☐ earthworks	☐ platform mound	☐ well

FUNCTION *

☐ none specified
☐ campsite
☐ extractive site
☐ habitation (prehistoric)
X homestead/nursery (historic)
☐ village (prehistoric)
☐ town (historic)
☐ quarry

~~HISTORIC CONTEXTS (Check all that apply; use most specific subphases; e.g., if *Glades Ia* only, don't also use *Glades I*)~~

Aboriginal *

☐ Alachua
☐ Archaic, Early
☐ Archaic, Middle
☐ Archaic, Late
☐ Archaic unspecified
☐ Belle Glade I
☐ Belle Glade II
☐ Belle Glade III
☐ Belle Glade IV
☐ Belle Glade unspecif.
☐ Cades Pond
☐ Deptford
☐ Englewood
☐ Fort Walton
☐ Glades Ia
☐ Glades Ib
☐ Glades I unspecif.
☐ Glades IIa
☐ Glades IIb
☐ Glades IIc
☐ Glades II unspecif.
☐ Glades IIIa
☐ Glades IIIb
☐ Glades IIIc
☐ Glades III unspecif.
☐ Glades unspecif.
☐ Hickory Pond
☐ Leon-Jefferson
☐ Malabar I
☐ Malabar II
☐ Manasota
☐ Mount Taylor
☐ Norwood
☐ Orange
☐ Paleoindian
☐ Pensacola
☐ Perico Island
☐ Safety Harbor
☐ St. Augustine
☐ St. Johns Ia
☐ St. Johns Ib
☐ St. Johns I unspecified
☐ St. Johns IIa
☐ St. Johns IIb
☐ St. Johns IIc
☐ St. Johns II unspecified
☐ St. Johns unspecified
☐ Santa Rosa
☐ Santa Rosa-Swift Creek
☐ Seminole: Colonization
☐ Seminole: 1st War To 2d
☐ Seminole: 2d War To 3d
☐ Seminole: 3d War On
☐ Seminole unspecified
☐ Swift Creek, Early
☐ Swift Creek, Late
☐ Swift Creek, unspecified
☐ Transitional
☐ Weeden Island I
☐ Weeden Island II
☐ Weeden Island unspecif.
☐ Prehistoric nonceramic
☐ Prehistoric ceramic
☐ Prehistoric unspecified

Nonaboriginal *

☐ First Spanish 1513-99
☐ First Spanish 1600-99
☐ First Spanish 1700-1763
☐ First Spanish unspecified
☐ British 1763-1783
☐ Second Spanish 1783-1821
☐ American Territorial 1821-45
☐ American Civil War 1861-65
☐ American 19th Century
X American 20th Century
☐ American unspecified
☐ African-American

☐ Other (Less common phases are not check-listed. For historic sites, also give specific dates if known.) _____

ç Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File).

~~RECORDER'S OPINION OF EVALUATION OF SITE (NOT OFFICIAL; Check one on each line)~~

Potentially eligible individually for National Register of Historic Places? ☐ yes Xno ☐ insufficient information
Potentially eligible as contributor to a National Register district? ☐ yes Xno ☐ insufficient information
Explanation of Evaluation (Required if evaluated; limit to 3 lines; attach full justification) **Debris and buried refuse (dump)**
Recommendations for Owner or SHPO Action Preservation or further investigation **no further investigation of this site parcel is necessary**

DHR USE ONLY ♣♣♣♣♣♣ OFFICIAL EVALUATIONS ♣♣♣♣♣♣ DHR USE ONLY

NR DATE __/__/____ *KEEPER-NR ELIGIBILITY:* ☐yes ☐no *Date* __/__/____
DELIST DATE __/__/____ *SHPO-NR ELIGIBILITY:* ☐yes ☐no ☐potentially elig. ☐insufficient info. *Date* __/__/____
LOCAL DESIGNATION: _____ *Date* __/__/____
Local office _____
National Register Criteria for Evaluation ☐a ☐b ☐c ☐d (See National Register Bulletin 15, p. 2)

HR6E06401-97 Florida Master Site File / Div. of Historical Resources / R. A. Gray Bldg / 500 S Bronough St., Tallahassee, FL 32399-0250
Phone (850) 245-6440 / Suncom 205-6440 / Fax (850)-245-6439 / E-mail fmsfile@dos.state.fl.us
Computer Document File P:\FSF\DOCS\MOM\mom_docs\Ar_Form_V2.3.doc

Consult *Guide to Archaeological Site Form* for detailed instructions.

FIELD METHODS (Check one or more methods for detection and for boundaries)

SITE DETECTION*

☐ no field check
☐ test units
☐ literature search
☐ informant report
☐ remote sensing
X exposed ground
☐ bounds unknown
☐ posthole digger
☐ auger--size:___
☐ unscreened shovel
X screened one meter
☐ remote sensing
_____
_____
_____

SITE BOUNDARIES*

☐ unscreened shovel
☐ none by recorder
☐ literature search
☐ informant report
X insp exposed ground
☐ posthole tests
☐ auger--size:_____
X screened shovel
☐ block excavations
☐ estimate or guess

Other methods; number, size, depth, pattern of units; screen size (attach site plan) _____

SITE DESCRIPTION

Extent Size **2000(m^2) on parcel** Depth/stratigraphy of cultural deposit from surface to **Depths of up to 30cm**

Temporal Interpretation* - Components (check one): X single ☐ prob single ☐ prob multiple ☐ multiple ☐ uncertain ☐ unknown

Describe each occupation in plan (refer to attached large scale map) and stratigraphically. Discuss temporal and functional interpretations:

Integrity Overall disturbance*: ☐ none seen ☐ minor ☐ substantial ☐ major X redeposited ☐ destroyed-**document!** ☐ unknown

Disturbances/threats/protective measures _____

Surface: area collected _____ m^2 # collection units _____ ; Excavation: # noncontiguous blocks _____

ARTIFACTS

Total Artifacts #_____ 200 E_____ (C)ount or (E)stimate? Surface #_____ (C) or (E) Subsurface # 200E _____ (C) or (E)

COLLECTION SELECTIVITY*

☐ unknown
X unselective (all artifacts)
☐ selective (some artifacts)
☐ mixed selectivity

SPATIAL CONTROL*

☐ uncollected
☐ unknown
☐ general (not by subarea)
☐ controlled (by subarea)
☐ variable spatial control
☐ Other_____

ARTIFACT CATEGORIES* and DISPOSITIONS* (*example*: A bone-human)

Pick exactly one *code* from Disposition List ⇨ ⇨ ⇨ ⇨

___ bone-animal	___ exotic-nonlocal
___ bone-human	A glass
___ bone-unspecified	___ lithics-aboriginal
___ bone-worked	A metal-nonprecious
A brick/building debris	___ metal-precious/coin
___ ceramic-aboriginal	A shell-unworked
A ceramic-nonaboriginal	___ shell-worked
___ daub	___ Others: _____

Disposition List*
A - category always collected
S - some items in category collected
O - observed first hand, but not collected
R - collected and subsequently left at site
I - informant reported category present
U - unknown

Artifact Comments **Refuse from 1920s to 1930s**

DIAGNOSTICS (Type or mode, and frequency: e.g., *Suwanee ppk, heat-treated chert, Deptford Check-stamped, ironstone/whiteware*)

1. Coke-Cola Bottle frags.	N=4	5._____	N=___	9._____	N=___
2._____	N=___	6._____	N=___	10._____	N=___
3._____	N=___	7._____	N=___	11._____	N=___
4._____	N=___	8._____	N=___	12._____	N=___

ENVIRONMENT

Nearest fresh water type* & name (incl. relict source) **Swamp** Distance (m)/bearing **300 meters east**

Natural community (FNAI category* or leave blank) **Slash pine flatwoods**

Local vegetation Slash pines, various exotics

Topography* _____ Min Elevation 2 meters Max Elevation 3 meters

Present land use **Undeveloped**

SCS soil series **Immokalee** Soil association_____

FURTHER INFORMATION

Informant(s): Name/Address/Phone/Email _____

Describe field & analysis notes, artifacts, photos. For each, give type*(e.g., notes), curating organization*, accession #s, and short description.

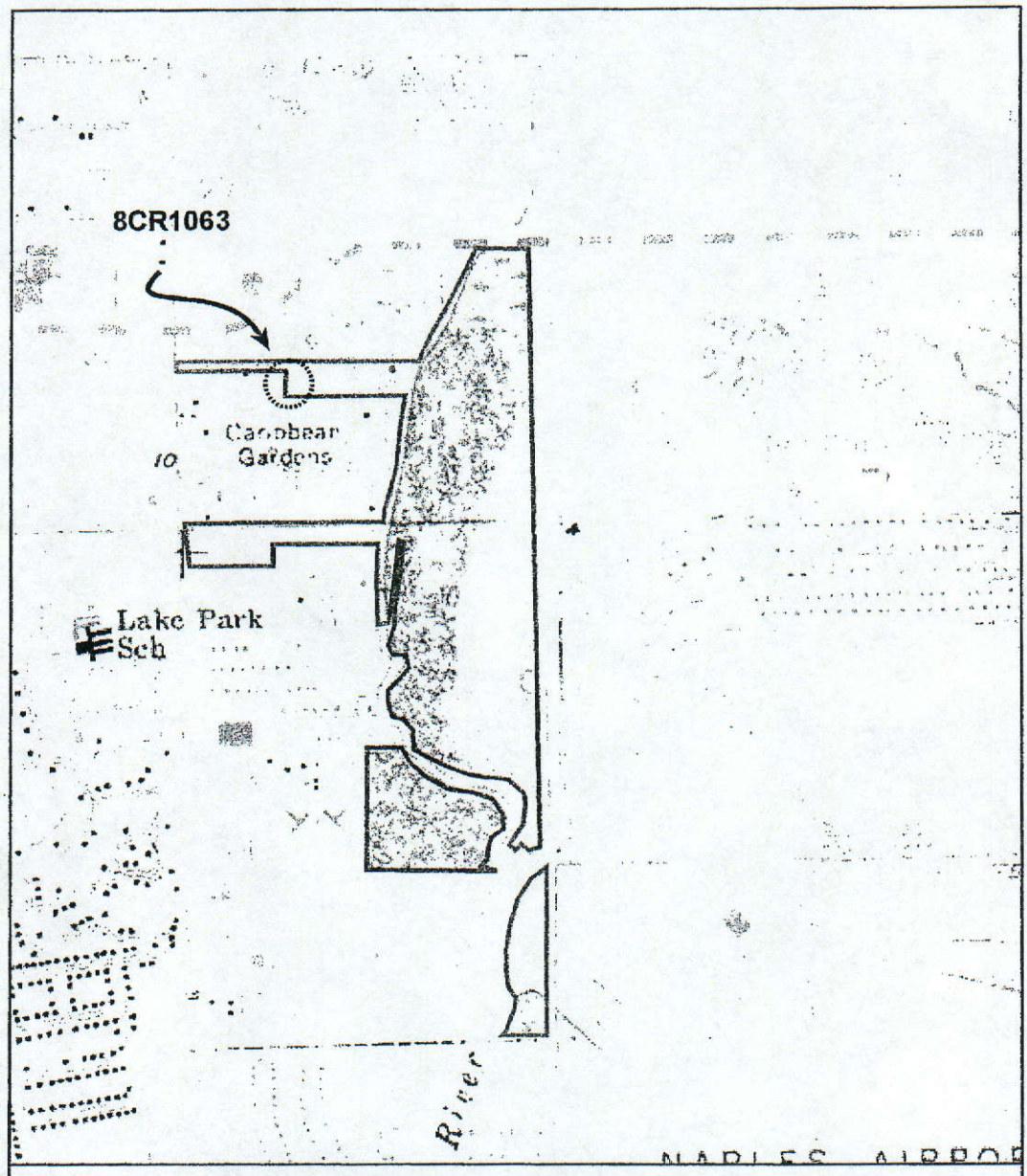
All shovel tests logs, photos, and artifacts will repose at the AHC offices in Davie.

Manuscripts or Publications on the site (Use continuation sheet, give FMSF# if relevant) **A Phase 1 Cultural Resource Assessment of the Gordon River Greenway Parcel, Collier County, Florida. AHC Technical Report #829, Phase II**

Recorder(s): Name/Addr./Phone/Email **John G. Beriault, Archaeological and Historical Conservancy, 954-792-9776, archlgcl@bellsouth.net**

Affiliation* or FAS Chapter _____

ç Consult *Guide to Archaeological Site Form* for preferred descriptions not listed above (data are "coded fields" at the Site File). **SITE PLAN & USGS REQUIRED** At 1"=300' (1:3600) or larger scale, show: site boundaries, scale, north arrow, datum, test/collection units, landmarks, mappers, date.



Map of the Gordon River Greenway Parcel area showing location of the Gordon River Refuse Site, 8CR1063.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, 1958, REV. 1991

0	660	1320	2640 Feet approx.
0	.2	.4	.8 Km. approx.

00

A PHASE I CULTURAL RESOURCE ASSESSMENT OF THE GORDON RIVER GREENWAY PARK PARCEL COLLIER COUNTY, FLORIDA

By:
Robert S. Carr, M.S.
John Beriault, B.A.
Timothy A. Harrington
Matthew G. Fenno

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Davie, Florida 33314
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For:
COLLIER COUNTY

AHC PROJECT NO. 2012.28
AHC TECHNICAL REPORT NO. 962
MAY 2012

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CONSULTANT SUMMARY

In April 2012 the Archaeological and Historical Conservancy, Inc. (AHC), conducted a Phase I cultural resource assessment for Collier County of Parcel A of the Gordon River Greenway Park parcel located south of Golden Gate Parkway and east of Goodlette-Frank Road (SR851) in west central Collier County. The parcel is located in Township 49S, Range 25E, Section 27 and encompasses 2.93 acres (Figure 1).

The parcel was surveyed to locate and assess any sites of archaeological and/or historical significance to fulfill Collier County and State of Florida cultural resource requirements in response to the proposed use of the parcel for a Kayak launch and other improvements. The assessment fulfills requirements because of the parcel's inclusion in the Gordon River Greenway for Florida Community Trust. The assessment was conducted in accordance with State of Florida historic preservation guidelines and conforms to the specifications set forth in Chapter IA-46, Florida Administrative Code.

Historically, the parcel was located within a pine flatwoods abutting a freshwater and brackish wetlands along the Gordon River. The parcel had been cleared in the 1960s and has a wood frame structure and some exotic plants all attributed to Julius Fleischmann. The structure, 8CR1263, is a vacant, wood frame residential structure. This assessment included a review of aerial photographs, archival documents, a pedestrian survey, and shovel testing. A total of 13 systematic shovel tests were excavated at 50 foot intervals. One shovel test was positive for prehistoric cultural material, and the other 12 were positive for modern material. It was determined that the one positive test of prehistoric materials were associated with a redeposited site. Two sand tempered plain pot sherds and faunal bones were found in Shovel Test #3.

Several plants likely associated with the historic use of the parcel were identified on the project parcel. Consideration should be given to fully documenting and relocating any significant plants.

In the consultant's opinion insufficient data was available to determine the eligibility of 8CR1263 for listing in the National Register of Historic Places. However, based on available data, the structure may be eligible for listing as part of a Caribbean Gardens cultural resource group. Prior to any activities adversely affecting the structure, such as relocation or demolition, additional documentation including photographing the interior should be completed to determine site significance.

The parcel area should be monitored by an archaeologist when ground-disturbing activities occur so that other artifacts or features associated with the parcel are uncovered so they can be further documented.

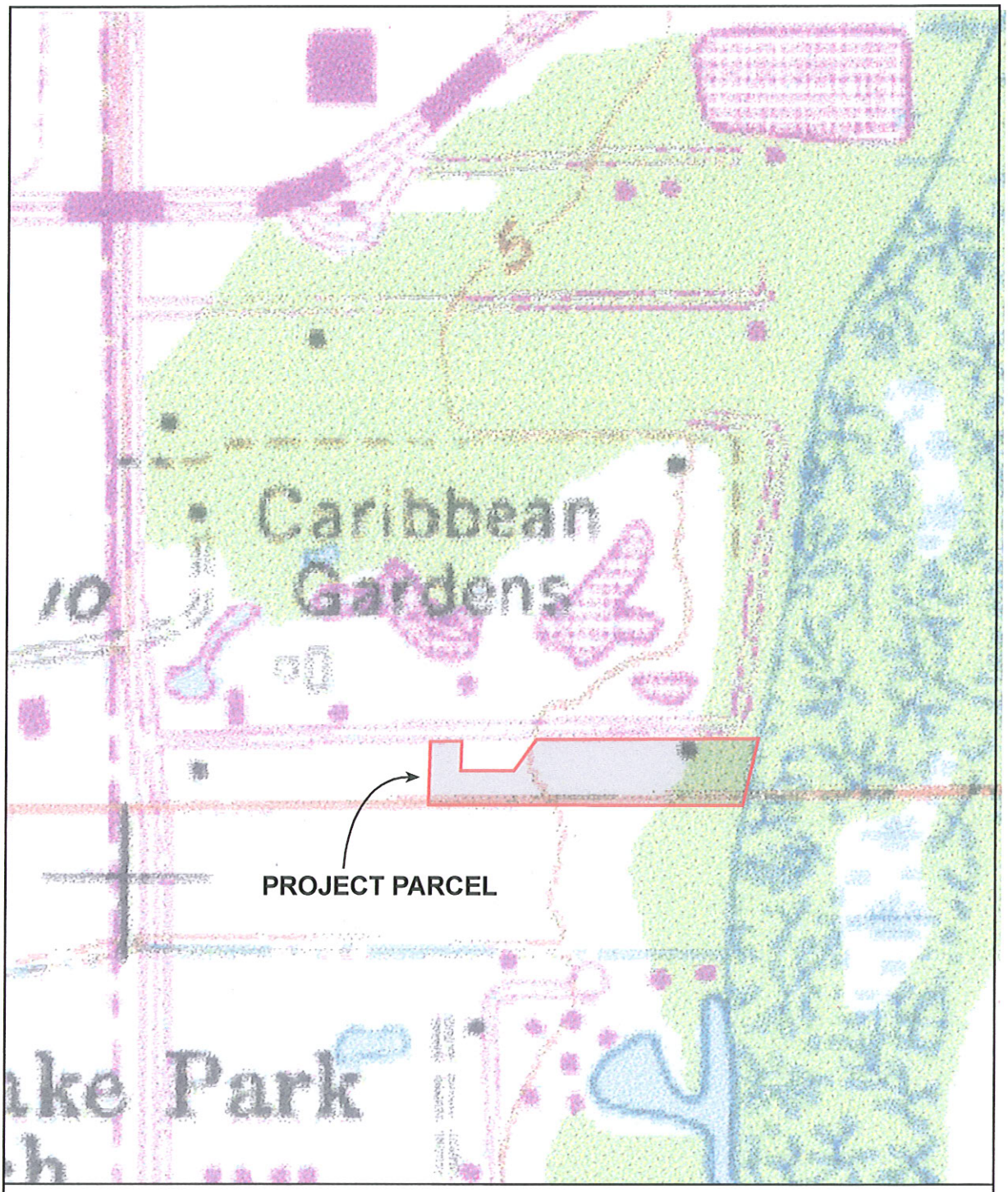


Figure 1. USGS Map of the Gordon River Greenway Park parcel.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, REV. 1991

0 150 300 600 Feet approx.

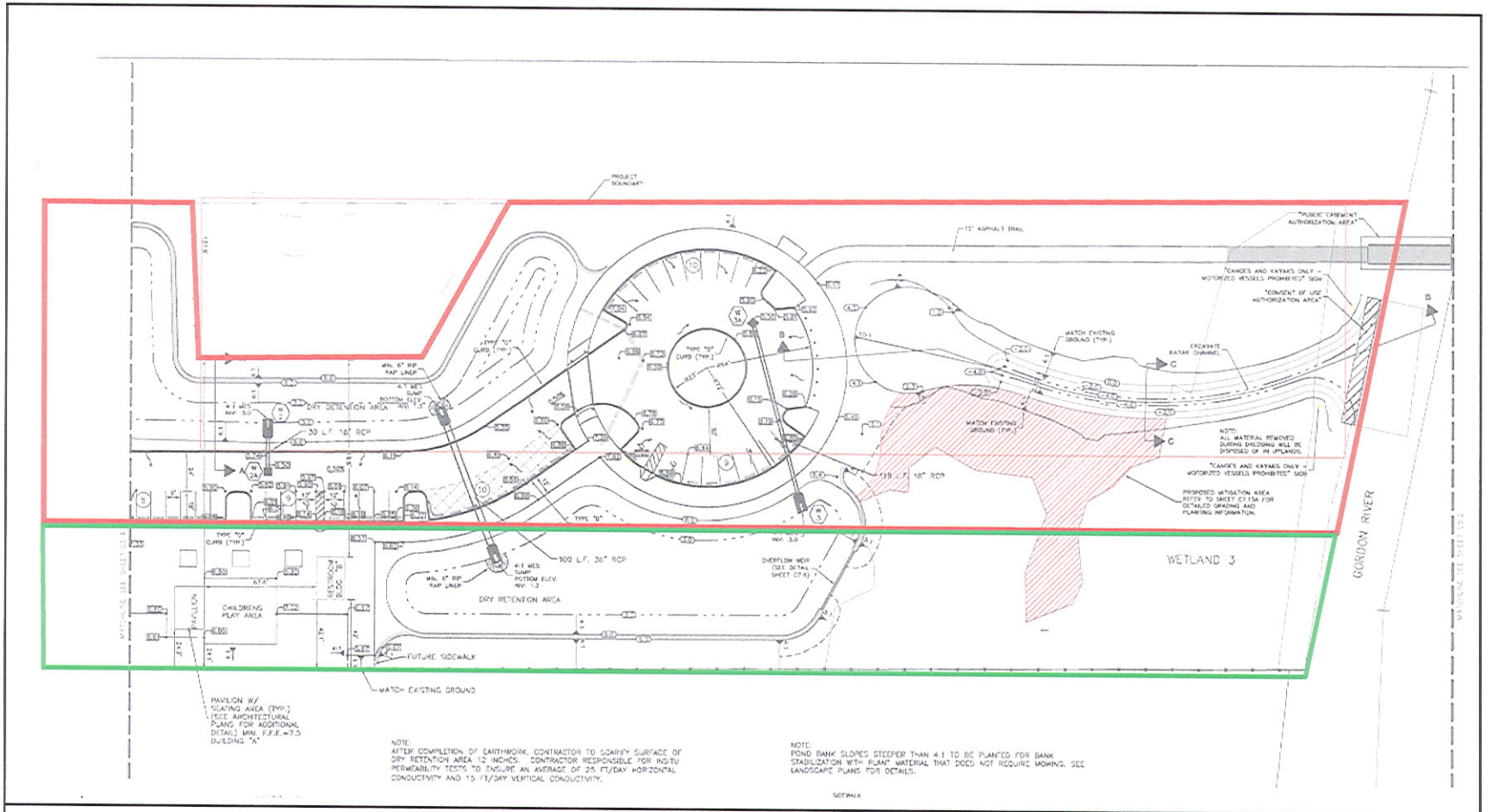


Figure 2. Plat map of the Gordon River Greenway Park parcel showing proposed parking area, kayak/canoe launch, and other improvements.

= LOT A

= LOT B

PLAT MAP COURTESY OF KIMBERLY-HORN AND ASSOCIATES INC.

N

0 100 200 Feet approx.

PROJECT SETTING

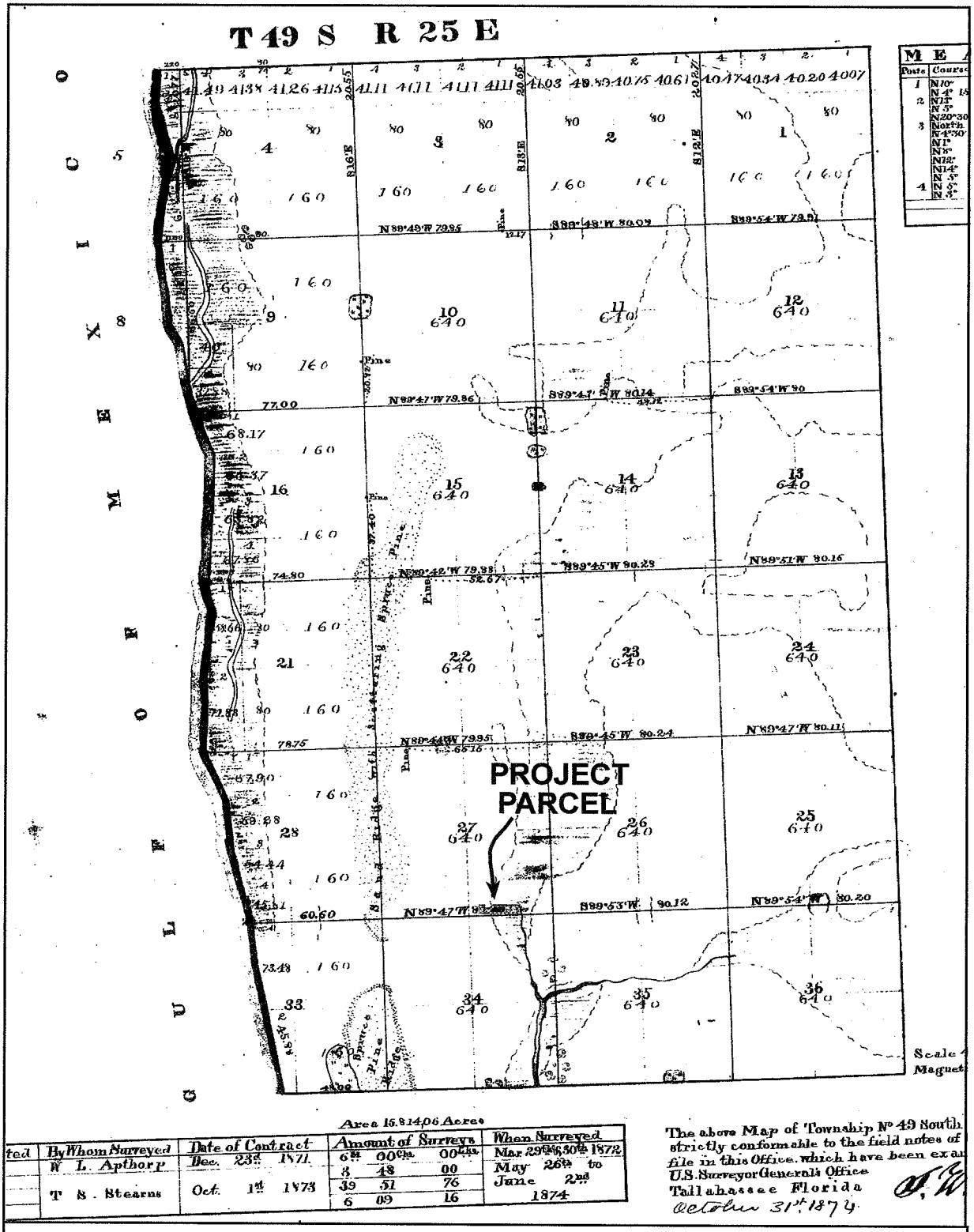
The project parcel is located in Section 27 of Township 49S, Range 25E in the City of Naples in west-central Collier County. The parcel is located south of Golden Gate Parkway and east of Goodlette-Frank Road (SR851).The relevant USGS map is Naples North, Fla (Figure 1).

The project parcel is roughly rectangular and consists of cleared understory on the west portion of the parcel and heavily vegetated communities on the eastern end of the parcel abutting the Gordon River. The parcel is located about 700 feet east of Goodlette-Frank Road. The parcel length extends nearly 800 feet eastward to the river along its northern side and is about 180 feet wide (north to south). One wood frame residential structure occurs on the parcel.

The project parcel is moderately elevated (12-15 feet NGVD). Historically, it was vegetated in slash pine/saw palmetto flatwoods dropping gradually to the east toward the slough of the Gordon River. Historically the general area encompassed a pine flatwoods and brackish water swamp with cypress swamp/maple swamp flora fringing the creek.

A review of aerial photographs indicates that the parcel was in a natural state in 1940 (Figure 4). By 1952 the parcel had been cleared of most vegetation, clearly demarcating the boundary between the wetlands and pine flatwoods (Figure 5). No structures occurred on the parcel at that time, but by 1962 (Figure 6) a road and structure appear on the parcel (Figure 6).

The soil types for the area are fine white to gray sand mantles covering brown hardpan sands. Saint Lucie fine/Basinger fine and Immokalee fine types predominate.



ted	By Whom Surveyed	Date of Contract	Amount of Surveys	When Surveyed
	W L Apthorp	Dec. 23d 1871	6M 00Ch 00Lks	Mar 29th to 30th 1872
			8 48 00	May 26th to June 2nd 1874
	T S Stearns	Oct. 1st 1873	39 51 76	
			6 09 16	

Figure 3. Portion of the 1874 plat map for Township 49S, Range 25E with the project parcel boundaries superimposed.



Figure 4. 1940 black and white aerial photograph of the Gordon River Greenway Park parcel.

N

0 200 400 800 Feet Approx.



Figure 5. 1952 black and white aerial photograph of the Gordon River Greenway Park parcel.

N

0 200 400 800 Feet approx.



Figure 6. 1962 black and white aerial photograph of the Gordon River Greenway Park parcel.

N

0 200 400 800 Feet approx.



Figure 7. 2010 color aerial orthophotograph of the Gordon River Greenway Park parcel.

N

0 100 200 400 Feet approx.



Figure 8. Looking west at the project parcel showing mowed lawn and native and exotic trees. Crew is working at Shovel Test 1.



Figure 9. View north of exotic fig (*Ficus* spp.) likely planted during Caribbean Gardens era (1954-1977) in northern mid-portion of project parcel.

PREVIOUS RESEARCH

The Archaeological and Historical Conservancy (AHC) has conducted eight previous cultural resource assessments in close proximity (within one mile) to Gordon River Greenway Park. The first cultural resource assessment was conducted in November, 2006 (Carr et al. 2007). That assessment included research on Henry Nehrling and his contributions to horticulture; a preliminary inventory of historic plants likely planted by Nehrling still existing in the Nehrling Gardens parcel; shovel testing in the parcel to locate and assess the sites of Nehrling's cottage and slathouse (8CR974 and 8CR975). Additionally, two historic standing structures were assessed by an architectural historian. These were the Caribbean Gardens Gatehouse, 8CR972, considered historically significant, and the manager's house, 8CR973, that was not considered significant.

In November, 2008, AHC conducted an archaeological assessment for the proposed Bear Hammock exhibit, a .5 acre parcel (Carr et al. 2008). Fourteen shovel tests were dug across the parcel at 10 meter intervals. After shovel testing, a metal detector search was conducted across the entire parcel to locate and recover any diagnostic metal artifacts. Traces of crushed shell were found in all shovel tests. This shell may be associated with fill from nearby roads. Surface zones of nearly all shovel tests were dark gray sand with variable percentages of diffuse broken shell. Basal zones of nearly all shovel tests were uniform light gray to whitish sands mantling a dark hardpan at 90-100 cm deep. No cultural material was recovered.

In November, 2009, AHC conducted archaeological testing at the lion pen (Beriault and Betz 2009). The approximately 1 acre area was to be reconfigured as an enclosure for giraffes. Two tall royal palms located immediately southwest of the lion pen were identified as being historically significant because they were reported to mark the entry walkway leading east toward Henry Nehrling's cottage. Eighteen shovel tests were excavated across the parcel. One chert flake, likely dating from the Archaic period, was recovered as well as several small fragmentary historic artifacts.

In addition, AHC has conducted cultural resource assessments on five parcels adjacent to the Naples Zoo. In 2005 two assessments of Freedom Park located north of Golden Gate Parkway were completed resulting in the discovery of prehistoric site 8CR925 (Beriault 2005, 2005b). In 2007 AHC personnel did a Phase I assessment of the Gordon River Greenway east of the Naples Zoo that resulted in three sites being recorded; Parcel B (Figure 2) representing the southern part of the park improvement project was surveyed during this assessment (Beriault et al. 2007). In 2009, AHC performed a Phase I assessment at the Bridges Parcel, a 22-acre area extending south of Golden Gate Parkway. A southerly extension of 8CR925 was discovered there resulting in a Phase II assessment (Carr et al. 2009, 2009b).

LITERATURE REVIEW

A search was requested on 4-2-12 with the Florida Division of Historic Resources for relevant archives and literature associated with the project area. This included site forms

and cultural resource reports from the Master Site File in Tallahassee of sites and assessments located within one mile of the project parcel (Table 1).

Table 1. Literature Review Summary	
Previously Recorded Sites:	10
Within Survey Parcel	0
Previous Investigations:	
In Project Parcel	0
Within One Mile of Project Parcel	12

A review of Florida site files and AHC files resulted in determining that twelve previously recorded cultural resources occur within one mile of the project parcel. Four of these are prehistoric archaeological sites, four are historic sites or historic structures, and two are resource groups.

Table 2. Previously Recorded Sites Summary[1]

Site No.	Site Name	Site Type	References	In Survey Parcel	Outside of Parcel
8CR00092	NN	Prehistoric Shell Scatter	*Site Form on File, Division of Historic Resources, Tallahassee, Florida*		X
8CR00477	Fleischmann	Prehistoric Shell Scatter	*Site Form on File, Division of Historic Resources, Tallahassee, Florida*		X
8CR00925	Luckey Lane	Prehistoric Midden, Campsite	*Beriault, 2005*		X
8CR00927	US 41/Tamiami Trail	Resource Group, Historic Road	*Carr, 1993*		X
8CR00973	Caribbean Gardens Gatehouse	Historic Standing structure ca. 1954	*Carr, 2007*		X
8CR00974	Henry Nehrling House	Historic Home site ca. 1918	*Carr, 2007*		X
8CR00975	Henry Nehrling Slathouse	Historic Slathouse ca. 1918	*Carr, 2007*		X
8CR00978	Airport Interface	Prehistoric Midden	*Carr, 2007b*		X
8CR01063	Gordon River Refuse	Historic Trash	*Carr, 2007b*		X
8CR01095	Naples Municipal Airport	Resource Group, Historic ca. World War Two Airport	*Janus Research, 2010*		X
8CR1262	Cannon House	Prehistoric Lithic scatter	Carr et al. 2012		X

Note: [1]Based on sites within one mile of the survey parcel.

A review of the state report files and AHC files indicated thirteen assessments conducted within one mile of the project parcel (Table 3).

Table 3. Previous Cultural Resource Assessments[1]

Survey No.	Date	Author	Title	In Parcel	Out of Parcel
1108	1986	Florida Preservation Services	*Historical/Architectural Survey of Collier County, Florida*		X
4087	1994	Janus Research	*Cultural Resource Assessment Survey of Five Proposed Gordon River Bridge Project Alignments in Collier County*		X
11961	2005	Beriault, John G.	*A Phase One Archaeological Assessment of the Fleischmann Parcel Retention Pond Area, Collier County, Florida*		X
11962	2005b	Beriault, John G.	*A Phase One Archaeological Assessment of the Fleischmann Parcel, Collier County, Florida*		X
15553	2007	Beriault, John G. et al.	*A Phase I Cultural Resource Assessment of the Gordon River Greenway Preserve Parcel, Collier County, Florida*		X
17288	2010	Janus Research	*Cultural Resource Assessment Survey of the Naples Municipal Airport, City of Naples, Collier County, Florida*		X
AHC 767	2007	Beriault, John G. and Crump, John	*A Phase Two Archaeological Assessment of the Lucky Lane Site (8CR925), Fleischmann Parcel, Collier County, Florida*		X
AHC 761	2007	Carr, Robert S. et al.	*An Archaeological and Cultural Landscape Assessment of the Nehrling Portion of the Naples Zoo Parcel, Collier County, Florida*	X	
AHC 829	2007b	Carr, Robert S. et al.	*A Phase II Cultural Resource Assessment of 8CR1063, Gordon River Greenway Park Parcel, Collier County, Florida*		X
AHC 874	2008	Carr, Robert S. et al.	*An Archaeological Assessment of the Proposed Bear Exhibit Area, Naples Zoo, Collier County, Florida*		X
AHC 902	2009	Carr, Robert S. et al.	*A Phase I Cultural Resource Survey of the Bridges Parcel, Collier County, Florida*		X
AHC 904	2009b	Carr, Robert S. and John G. Beriault	*A Phase II Archaeological Assessment of the Southern Component of the Luckey Lane Site, 8CR925, Collier County, Florida.*		X
AHC 913	2009	Beriault, John G. and Betz, Matthew	*Archaeological Testing at The Lion's Pen, Naples Zoo, Collier County, Florida*		X
AHC 960	2012	Carr, Robert et al.	*Segment 1-B Survey*		X

Note: [1]Based on assessments within one mile of the survey area

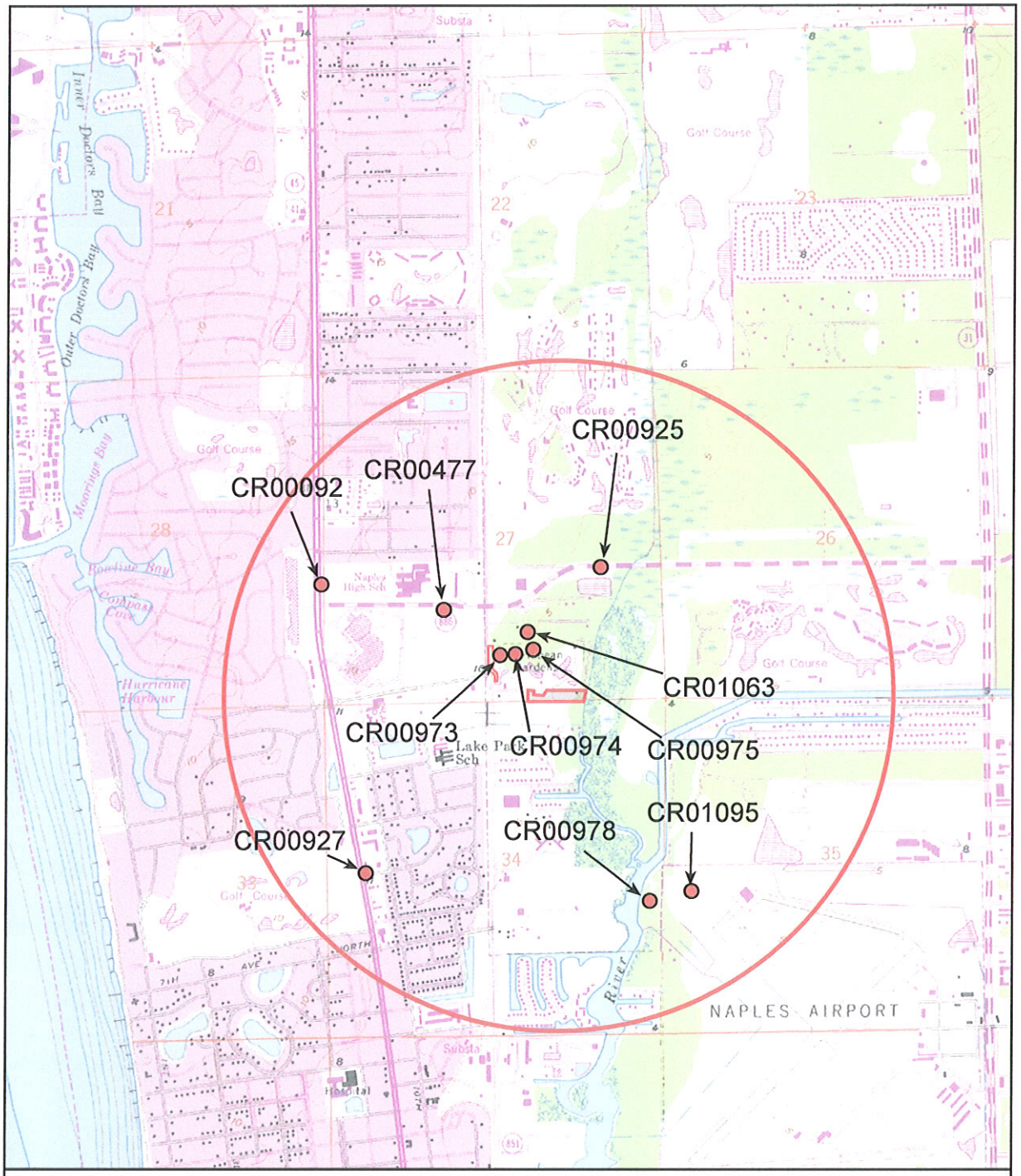


Figure 10. USGS map of the Gordon River Greenway Park area showing all previously recorded sites within one mile of the project parcel.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, REV. 1991

0 600 1200 2400 Feet approx.

METHODOLOGY

Prior to conducting fieldwork in the project parcel, relevant archives and literature were reviewed. This included, but was not limited to, studying previous archaeological reports for sites in Collier County, reviewing information from the Master Site File in Tallahassee concerning nearby sites, and examining USGS maps of the project area. Also, black and white as well as color aerial photographs of the project area, which could aid in revealing anthropogenic changes to the topography and floral communities, were interpreted.

RESEARCH DESIGN

The principal project goal was to locate and assess all historical and/or archaeological sites in the subject parcel. It was determined based on the parcel's proximity to the Gordon River that there is a medium to high probability of associated archaeological sites.

FIELDWORK

The project parcel was assessed by pedestrian survey and systematic shovel testing. A total of 13 shovel tests were dug across the project parcel (Figure 7) at 50 foot intervals dug along a east-west transect. All shovel tests were 50 cm diameter and excavated to a depth of 100 cm where possible. All dug sediments were screened through ¼"-mesh hardware cloth and all cultural materials were collected. When a positive test for prehistoric material was encountered (ST 3) two additional shovel tests (ST 10, 11) were dug.

Physical characteristics of the single structure occurring on the parcel were documented for review by an architectural historian. The exterior of the structure was photographed and measured.

COLLECTIONS

All collected material was placed in sealable plastic bags and transported to the AHC laboratory in Davie for conservation and analysis. These materials were assigned FS # 1-10 (Appendix I).

INFORMANTS

Naples Zoo Maintenance Supervisor Ralph Williams, who has been employed by the zoo for the past 30 years beginning in the days of Jungle Larry's Safari, provided information about the parcel's land use history.

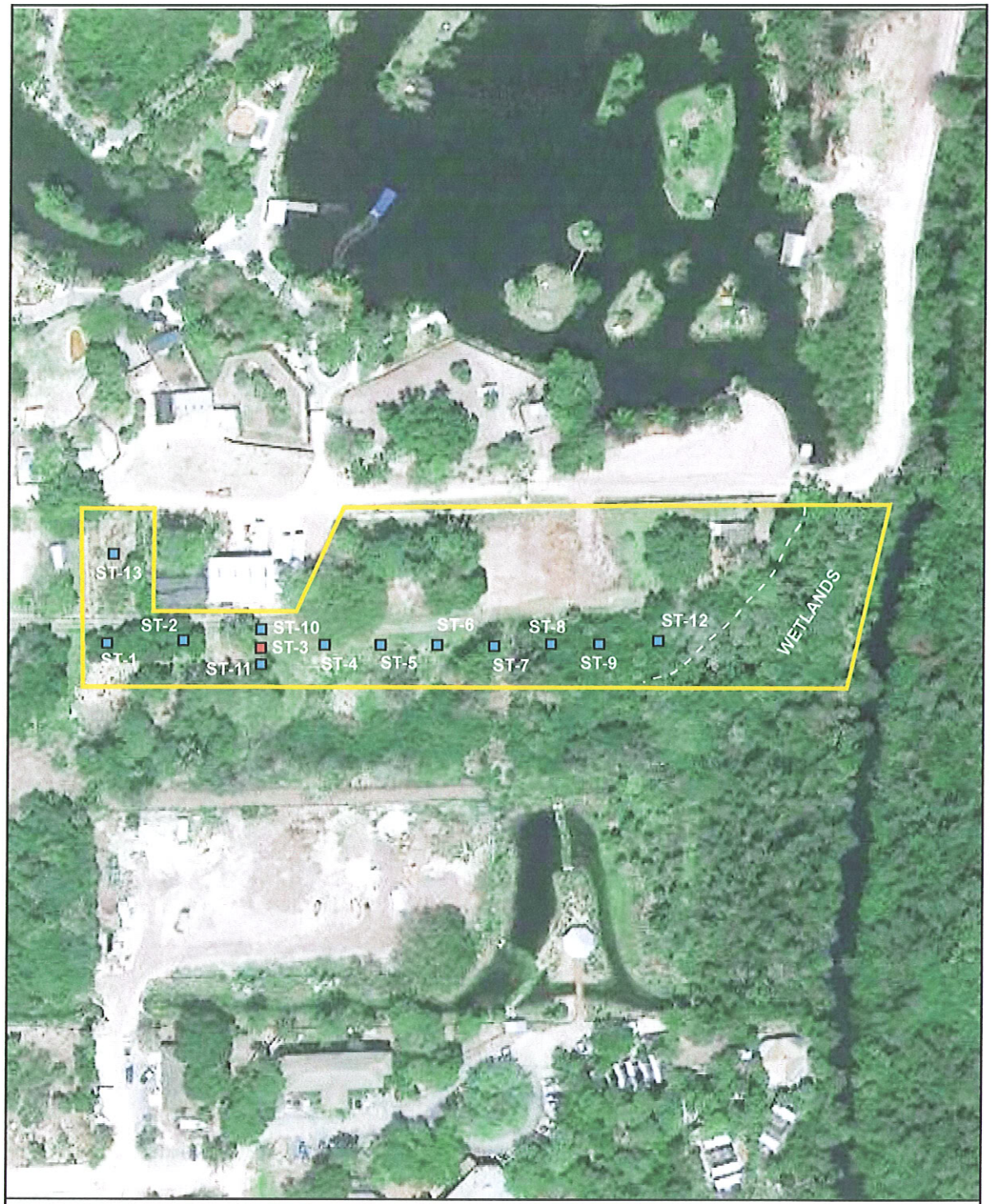


Figure 11. 2010 color aerial orthophotograph of the Gordon River Greenway Park parcel showing location of shovel tests.

= POSITIVE SHOVEL TEST

= NEGATIVE SHOVEL TEST

N

0 100 200 400 Feet approx.

SUMMARY OF SITE

Site Name:	Triangle House
State Site Number:	8CR1263
Environmental Setting:	Mesic to hydric slash pine/saw palmetto flatwoods dropping eastward to the Gordon River
Location:	Township 49S, Range 25E, Section 27
Site Type:	Historic structure
Site Function:	Habitation, residence for guest researchers
Description:	This structure is a single story, square, flat-roofed wood frame vernacular cottage. It measures 27 feet on a side and is 9 feet 6 inches from bottom of eaves to the ground. The structure has doors on three sides (north, east, and south) and windows on three sides (north, west, and south). The doors and hardware are original, the awning windows installed at some date after the house was constructed, the originals likely having been jalousies. The exterior of the house is sheathed in 4 foot sheets of fir T-111 siding and repaired in places with rough-sawn cedar T-111. The structure is supported by twelve 12" cast concrete piers elevated off the ground approximately a foot and regularly spaced beneath the structure. The four interior rooms are triangular and meet in the center with a central space allowing communication between rooms. The ceilings are 1 x 6" pine tongue-and-groove boards. The soffits are 2 x 8" pressure-treated boards. The roof is likely heated asphalt and gravel. The steps are wood and concrete construction. The structure is situated in its original location.
Historic Context:	The structure was built by Julius Fleischmann to serve as a guest cottage for visiting researchers at Caribbean Gardens.
Chronology:	Historic: constructed 1956-1957
Collections:	Photo documentation
Previous Research:	None

Preservation Quality:	Good, apart from the replaced windows and some exterior patching. Two deteriorated stoops are not integral to the structure.
Ownership:	Public: Collier County
Significance:	Individual eligibility for listing in the National Register of Historic Places is unknown, but based on available data the site is potentially eligible for listing in the National Register as a contributing structure to a Fleischman-era Caribbean Gardens cultural resource group.



Figure 12. 2010 color aerial orthophotograph of the Gordon River Greenway Park parcel showing location of historic structure 8CR1263 and redeposited prehistoric material.



Figure 13. Looking north at the south side (likely the front) of Triangle House, 8CR1263, a cottage built at Caribbean Gardens by Julius Fleischman between 1956 and 1957.



Figure 14. Looking north along the east side of 8CR1263, showing uncommon five-light French doors, probably original. All doors have original Schlage (Plymouth style) locks.



Figure 15. Looking southeast at the north and west sides of Triangle House, 8CR1263.



Figure 16. Looking northeast at the west and south sides of 8CR1263.



Figure 17. View north of likely *Acalypha spp.* or copperleaf planted west of Triangle House, 8CR1263.



Figure 18. Looking west at the eastern portion of the project parcel, showing a cluster of exotic and native plants surrounded by mowed lawn.

CONCLUSIONS AND RECOMMENDATIONS

This assessment resulted in the documentation of one previously unrecorded historical site, 8CR1263, on the project parcel and one redeposited prehistoric site. Test holes were dug at 50 meter intervals and a vacant structure, 8CR1263, was documented.

Only one of a total of 13 shovel tests yielded prehistoric material. The prehistoric materials include 2 small, worn, sand tempered pottery sherds and four faunal bones. Oyster shells also occur within the test hole but it is not clear whether they are associated with a prehistoric context since redeposited oyster shells occur across the parcel, some likely associated with shell fill brought in for road construction. Prehistoric material was found in ST 3 at about 30 cm below the surface within a horizon of redeposited grey sand sharply demarcated from natural white sands below. This grey horizon appears to have been pushed there from other parts of the parcel.

Site 8CR1263, the Triangle House, is of unknown individual historical significance based on available data but it may be eligible for listing in the National Register of Historic Places as a contributing structure to a potential resource group associated with the Caribbean Gardens era.

The current plans for the park do not include preservation of the structure. It is recommended that prior to any proposed relocation or demolition of the structure additional documentation (i.e. interior documentation and further informant interviews) be completed.

Based on the findings, proposed ground disturbances at the parcel should be monitored by an archaeologist when ground-disturbing activities are to occur. The purpose of the monitoring is to document and collect artifacts associated with any possible prehistoric artifacts, features, or sites that occur on the parcel.

In the unlikely event that human remains are uncovered State Statute 872.05, the Unmarked Human Burials Act, will apply.

REFERENCES CITED

Beriault, John G.
2005 A Phase I Archaeological Assessment of the Fleischmann Parcel Retention Pond Area, Collier County, Florida. *AHC Technical Report #625.*

Beriault, John G.
2005b A Phase I Archaeological Assessment of the Fleischmann Parcel, Collier County, Florida. *AHC Technical Report #626.*

Beriault, John G., Scott Faulkner, and Joseph F. Mankowski
2007 A Phase I Cultural Resource Assessment of the Gordon River Greenway Preserve Parcel, Collier County, Florida. *AHC Technical Report #829.*

Beriault, John G. and John Crump
2007 A Phase II Archaeological Assessment of the Luckey Lane Site (8CR925), Fleischmann Parcel, Collier County, Florida. *AHC Technical Report #767.*

Beriault, John G. and Matthew Betz
2009 Archeological Testing at The Lion's Pen Zoo at Naples, Collier County, Florida. *AHC Technical Report #913.*

Carr, Robert S., John G. Beriault, Stephanie Faulkner, Timothy A. Harrington, and John Crump
2007 An Archaeological and Cultural Landscape Assessment of the Nehrling Portion of the Naples Zoo Parcel, Collier County, Florida. *AHC Technical Report #761.*

Carr, Robert S., John G. Beriault, Scott Faulkner, and Matthew Betz
2007 A Phase II Cultural Resource Assessment of 8CR1063, Gordon River Greenway Park Parcel, Collier County, Florida. *AHC Technical Report #829.*

Carr, Robert S., Matthew Betz, Scott Faulkner, and John G. Beriault
2008 An Archaeological Assessment of the Proposed Bear Exhibit Area, Naples Zoo, Collier County, Florida. *AHC Technical Report #874.*

Carr, Robert S., and John G. Beriault
2009 A Phase I Cultural Resource Survey of the Bridges Parcel, Collier County, Florida. *AHC Technical Report #902.*

Carr, Robert S., Jorge Blanco and John G. Beriault
2009b A Phase II Archaeological Assessment of the Southern Component of the Luckey Lane Site, 8CR925, Collier County, Florida. *AHC Technical Report #904.*

Florida Preservation Services
1986 Historical/Architectural Survey of Collier County, Florida. Report #1108 on file with the Division of Historic Resources, Tallahassee, Florida.

Janus Research
1994 Cultural Resource Assessment Survey of Five Proposed Gordon River Bridge Project Alignments in Collier County. Report #4087 on file with the Division of Historic Resources, Tallahassee, Florida.

2010 Cultural Resource Assessment Survey of the Naples Municipal Airport, City of Naples, Collier County, Florida. Report #17288 on file with the Division of Historic Resources, Tallahassee, Florida.

APPENDIX I: FIELD SPECIMEN LOG

APPENDIX I: FIELD SPECIMEN LOG

Archaeological & Historical Conservancy, Inc.

PROJECT NAME: Gordon River Greemway Park **PROJECT NO:2012.28**

FS #	Location	Vertical Provenience	Bag Contents	Comments	Collector's Name	Date
1	ST-3	0-29cmbs	Oyster Frag.(7), Faunal Bone(3), Prehistoric STP(2), Fill Chert(3)		M. Fenno C. Carr	4-26-12
2	ST-5	0-40cmbs	Iron Fragments(20), Iron Latch(1)		M. Fenno C. Carr	4-26-12
3	ST-6	0-50cmbs	Oyster Frag.(14)		M. Fenno C. Carr	4-26-12
4	ST-7	0-40cmbs	Oyster(24), Clam(6), Gastropod(1) Fill Chert(4)		M. Fenno C. Carr	4-26-12
5	ST-9	0-80cmbs	Oyster(26), Clam(2), Modern Chert(3)		M. Fenno C. Carr	4-26-12
6	ST-10	Level 1, 0-20cmbs	Oyster(3), Clam(1), Aluminum Fence tie(1), aluminum tube(1)		M. Fenno C. Carr	4-27-12
7	ST-10	Level 2, 20-40cmbs	Oyster(6), Clam(1)		M. Fenno C. Carr	4-27-12
8	ST-10	Wall Fall Levels 2 and 3	Oyster(1), Pumice Fill(3), Quartz Gravel(1)		M. Fenno C. Carr	4-27-12
9	ST-11	Level 2, 20-40cmbs	Oyster(2), Iron Frag.(1)		M. Fenno C. Carr	4-27-12
10	ST-13	0-100cmbs	Oyster(12), Brick Frag.(1)		M. Fenno C. Carr	4-27-12

APPENDIX II: SURVEY LOG

Ent D (FMSF only)___/___/___

Survey Log Sheet

Florida Master Site File
Version 4.1 1/07

Survey # (FMSF only) _____

Consult *Guide to the Survey Log Sheet* for detailed instructions.

Identification and Bibliographic Information

Survey Project (name and project phase) **Gordon River Greenway Park Phase I**

Report Title (exactly as on title page) **A Phase I Cultural Resource Assessment of the Gordon River Greenway Park Parcel, Collier County, Florida**

Report Author(s) (as on title page— individual or corporate; last names first) **Carr, Robert S.; Fenno, Matthew; Beriault, John G., Harrington, Timothy A.**

Publication Date (year) **2012** Total Number of Pages in Report (count text, figures, tables, not site) **27**

Publication Information (Give series and no. in series, publisher and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*.)
AHC Technical Report # 962

Supervisor(s) of Fieldwork (whether or not the same as author[s]; last name first) **Carr, Robert S.**

Affiliation of Fieldworkers (organization, city) **Archaeological and Historical Conservancy, Inc.**

Key Words/Phrases (Don't use the county, or common words like *archaeology*, *structure*, *survey*, *architecture*. Limit each word or phrase to 25 characters.)**Naples Zoo, Caribbean Gardens, Julius Fleischmann, Jungle Larry's African Safari**

Survey Sponsors (corporation, government unit, or person who is directly paying for fieldwork)
Name **Collier County Parks and Recreation**
Address/Phone **3301 Tamiami Tr E, Bldg W, Naples, FL 43112 (239) 252-2961**

Recorder of *Log Sheet* **Beriault, John G. and Harrington, Timothy A.** Date *Log Sheet* Completed **5-8-12**
Is this survey or project a continuation of a previous project? X No θ Yes: Previous survey #(s) (FMSF only)

Mapping

Counties (List each one in which field survey was done - do not abbreviate; use supplement sheet if necessary) **Collier**

USGS 1:24,000 Map(s) : Map Name/Date of Latest Revision (use supplement sheet if necessary): **Naples North, rev. 1991**

Description of Survey Area

Dates for Fieldwork: Start **4/27/13** End **5-1-12** Total Area Surveyed (fill in one) _____ hectares **2.93** acres
Number of Distinct Tracts or Areas Surveyed **One**
If Corridor (fill in one for each): Width _____ meters _____ feet Length _____ kilometers _____ miles

HR6E066R0107 Florida Master Site File, Division of Historical Resources, Gray Building, 500 South Bronough Street, Tallahassee, Florida 32399-0250
Phone 850-245-6440, FAX 850-245-6439, Email: SiteFile@dos.state.fl.us

Survey Log Sheet

Survey #_____

Research and Field Methods

Types of Survey (check all that apply): X archaeological X architectural X historical/archival θ underwater θ other:_____

Preliminary Methods (4Check as many as apply to the project as a whole.)

θ Florida Archives (Gray Building)	θ library research- *local public*	θ local property or tax records	X other historic maps
θ Florida Photo Archives (Gray Building)	θ library-special collection - *nonlocal*	θ newspaper files	θ soils maps or data
X Site File property search	X Public Lands Survey (maps at DEP)	X literature search	θ windshield survey
X Site File survey search	X local informant(s)	θ Sanborn Insurance maps	X aerial photography

θ other (describe) _____

Archaeological Methods (4Check as many as apply to the project as a whole.)

θ Check here if **NO** archaeological methods were used.

θ surface collection, controlled	θ other screen shovel test (size: ____)	θ block excavation (at least 2x2 M)
θ surface collection, **un**controlled	θ water screen (finest size: ____)	θ soil resistivity
X shovel test-1/4"screen	θ posthole tests	θ magnetometer
θ shovel test-1/8" screen	θ auger (size:____)	θ side scan sonar
θ shovel test 1/16"screen	θ coring	θ unknown
θ shovel test-unscreened	θ test excavation (at least 1x2 M)	

θ other (describe): _____

Historical/Architectural Methods (4Check as many as apply to the project as a whole.)

θ Check here if **NO** historical/architectural methods were used.

θ building permits	θ demolition permits	θ neighbor interview	θ subdivision maps
θ commercial permits	X exposed ground inspected	X occupant interview	θ tax records
θ interior documentation	X local property records	θ occupation permits	θ unknown

θ other (describe):_____

Scope/Intensity/Procedures **Review of vintage and recent aerials, literature Review, then pedestrian survey of entire parcel followed by excavation of 12 shovel tests systematically and judgmentally across entire parcel.** _____

Survey Results (cultural resources recorded)

Site Significance Evaluated? x Yes θ No If *Yes*, circle NR-eligible/significant site numbers below.

Site Counts: Previously Recorded Sites **None**_____ Newly Recorded Sites **One** _____

Previously Recorded Site #'s with Site File Update Forms (List site #'s without "8." Attach supplementary pages if necessary) _____

_____

Newly Recorded Site #'s (Are you sure all are originals and not updates? Identify methods used to check for updates, i.e., researched Site File records. List site #'s without "8." Attach supplementary pages if necessary.) **CR1263** _____

_____

Site Form Used: X Site File Paper Form θ SmartForm II Electronic Recording Form

REQUIRED: ATTACH PLOT OF SURVEY AREA ON PHOTOCOPIES OF USGS 1:24,000 MAP(S)

DO NOT USE SITE FILE USE ONLY DO NOT USE

BAR Related

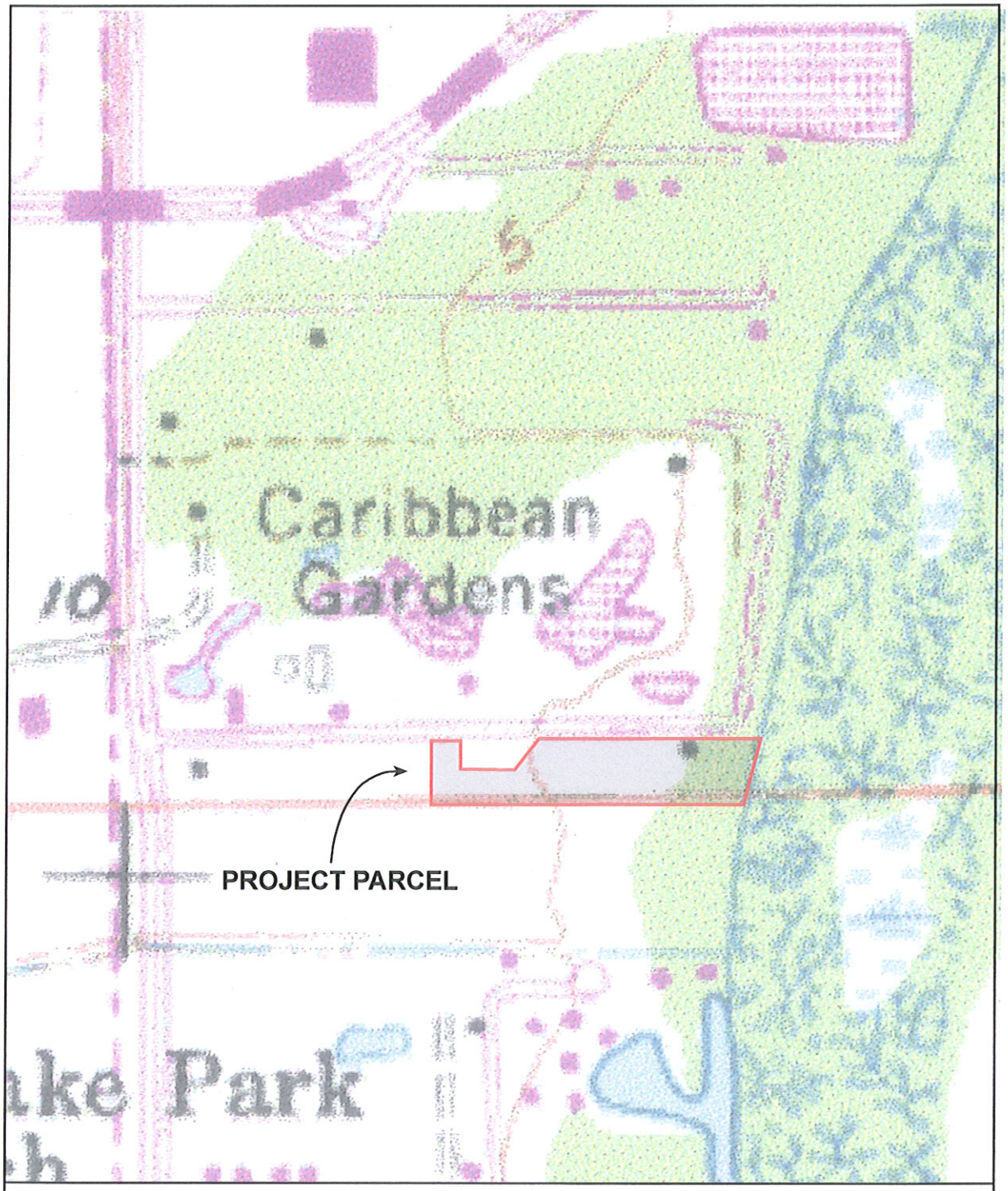
θ 872 θ 1A32 #_____

θ CARL θ UW

BHP Related

θ State Historic Preservation Grant

θ Compliance Review: CRAT #_____



USGS Map of the Gordon River Greenway Park parcel.

N

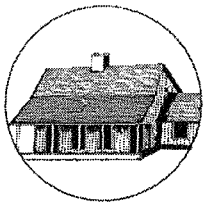
TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, REV. 1991

0 150 300 600 Feet approx.

APPENDIX III: FLORIDA SITE FORM: 8CR1263

☐ Original
☐ Update



HISTORICAL STRUCTURE FORM
FLORIDA MASTER SITE FILE
Version 4.0 1/07

Site #8 **CR1263**
Field Date **4/26/12**
Form Date **5/09/12**
Recorder # _____

Shaded Fields represent the minimum acceptable level of documentation.
Consult the *Guide to Historical Structure Forms* for detailed instructions.

Site Name(s) (address if none) **Triangle House** _____ Multiple Listing (DHR only) _____
Survey Project Name **Phase I Cultural Resource Assessment of the Gordon River Greenway Park Parcel** Survey # (DHR only) _____
National Register Category (please check one) **X** building ☐ structure ☐ district ☐ site ☐ object
Ownership: ☐private-profit ☐private-nonprofit ☐private-individual ☐private-nonspecific ☐city **X** county ☐state ☐federal ☐Native American ☐foreign ☐unknown

LOCATION & MAPPING

Address (include N,S,E,W, #, St., Ave., etc.) **1590 Goodlette Road North (CR 851, also called Goodlette-Frank Road)**
Cross Streets (nearest / between) **East on Caribbean Gardens access road south of the intersection of Goodlette Road and Fleischman Boulevard.** ____
USGS 7.5' Map Name & Date **Naples North photorevised 1991** _____ Plat or Other Map _____
City / Town (within 3 miles) **Naples** _____ In City Limits? **X** yes ☐no ☐unknown County Collier
Township **49 S** Range **25 E** Section **27** ¼ section: ☐NW ☐SW ☐SE ☐NE ☐Irregular-name: _____
Tax Parcel # **61940200006** _____ Landgrant _____
Subdivision Name **Caribbean Gardens** _____ Block _____ Lot **4, Parcel A** _____
UTM: Zone ☐16 ☐17 Easting _ _ _ _ _ _0 Northing _ _ _ _ _ _ _0
Other Coordinates: X: _____ Y: _____ Coordinate System & Datum _____
Name of Public Tract (e.g., park) **Gordon River Greenway Park** _____

HISTORY

Construction Year: **1956-1957** ☐approximately ☐year listed or earlier ☐year listed or later
Original Use* **Guest cottage** _____ From (year): **1956** To (year): **1967**
Current Use* **Vacant** _____ From (year): **2002** To (year): **Present**
Other Use* **Employee residence** _____ From (year): **1967** _____ To (year): **2002** _____
Moves: ☐yes **X** no ☐unknown Dates _____ Original address (if moved) _____
Alterations: **X** yes ☐no ☐unknown Dates **1970-1980** ___ Nature* **Some siding patched; awning windows where present replace original jalousies**
Additions: ☐yes **X** no ☐unknown Dates _____ Nature* _____
Architect (last name first): **Fleischmann, Julius** _____ Builder (last name first): **Unknown** _____
Ownership History (especially original owner, dates, profession, etc.) **Fleischmann, Julius:** designer/owner (property was part of Caribbean Gardens botanical attraction) until his death in 1967, **and family**. In 1969 the property was leased by "Jungle" Larry Tetzlaff becoming Jungle Larry's African Safari, which evolved into the Naples Zoo at Caribbean Gardens. In **2005 Collier County** purchased the property and leased it back to The Naples Zoo, Inc. In 2012 the parcel containing the Triangle House became part of Gordon River Greenway Park (Collier County).
Is the Resource Affected by a Local Preservation Ordinance? **X** yes ☐no ☐unknown Describe **Subject to county land development code**

DESCRIPTION

Style* **Frame vernacular** _____ Exterior Plan* **Square** _____ Number of Stories **1**
Exterior Fabric(s) * Wood siding, fir T-111 _____
Roof Type(s) * **Flat** _____ Roof Material(s) * **Tar and gravel**
Roof secondary strucs. (dormers etc.) * _____
Windows (types, materials, etc.) * **Metal awning** _____
_____
Distinguishing Architectural Features (exterior or interior ornaments) **Extended eaves with exposed rafter tails; diagonal rafters (corner to corner) reflecting an interior plan of four triangular rooms meeting at the center of the structure in a common area.** _____
_____
Ancillary Features / Outbuildings (record outbuildings, major landscape features; use continuation sheet if needed.) _____
_____

ç Consult *Guide to Historical Structure Forms* for preferred descriptions (coded fields at the Site File).

DHR USE ONLY	OFFICIAL EVALUATION	DHR USE ONLY
NR List Date ___/___/_____ ☐ Owner Objection	SHPO – Appears to meet criteria for NR listing: ☐yes ☐no ☐insufficient info Date ___/___/_____ Init._____	
	KEEPER – Determined eligible: ☐yes ☐no Date ___/___/_____	
	NR Criteria for Evaluation: ☐a ☐b ☐c ☐d (see *National Register Bulletin 15*, p. 2)	

DESCRIPTION (continued)

Chimney: No. **None** Material(s) * _____
Structural System(s) * **Wood frame** _____
Foundation: Type(s) * **Pier** _____ Material(s) * **Concrete, cast** _____
Main Entrance (stylistic details) **Plain wood door, possible jalousie (boarded up), south side. Five-light wood french door on east side, may have been a secondary main entrance. The back door is also a boarded up possible jalousie.** _____
Porch Descriptions (types, locations, roof types, etc.) **Freestanding stoops on south and north elevations, wood and concrete, dilapidated condition** _____
Condition (overall resource condition): ☐excellent X good ☐fair ☐deteriorated ☐ruinous
Narrative Description of Resource **The cottage is said to have been a guest house for scholars doing research at Caribbean Gardens. Dr. Robert W. Read, botanist at Fairchild Tropical Gardens, is mentioned as having been one of those guests. The structure was designed by Julius Fleischmann, who rescued Nehrling Gardens and turned it into a botanical attraction. The exterior of the cottage is plain, the architecturally significant feature being the interior, from which the name Triangle House derives.** _____
Archaeological Remains _____ ☐ Check if Archaeological Form Completed

ç Consult *Guide to Historical Structure Forms* for preferred descriptions (coded fields at the Site File).

RESEARCH METHODS (check all that apply)

X FMSF record search (sites/surveys)	☐ library research	☐ building permits	☐ Sanborn maps
X FL State Archives/photo collection	☐ city directory	X occupant/owner interview	☐ plat maps
X property appraiser / tax records	☐ newspaper files	X neighbor interview	☐ Public Lands Survey (DEP)
X cultural resource survey	☐ historic photos	☐ interior inspection	☐ HABS/HAER record search

☐ other methods (describe) _____

Bibliographic References (give FMSF manuscript # if relevant, use continuation sheet if needed) **2007: A Cultural Landscape Assessment of the Nehrling Portion of the Naples Zoo Property, *AHC Technical Report #761; informant interviews: 4/26/12 Ralph Williams, Naples Zoo employee; 9/9/12 John G. Beriault, Naples native and historian.*** _____

OPINION OF RESOURCE SIGNIFICANCE

Appears to meet the criteria for National Register listing individually? ☐yes ☐no X insufficient information
Appears to meet the criteria for National Register listing as part of a district? X yes ☐no ☐insufficient information
Explanation of Evaluation (**required**, whether significant or not; use separate sheet if needed) **More information on the structure's interior and history of use is needed to evaluate individual eligibility. However, based on available data, the structure would contribute to a potential cultural resource group based on the Caribbean Gardens era of the Nerhling Gardens/Naples Zoo complex. The structure has some potential architectural distinction and may be associated with significant persons in history, i.e. it may have significance under Criteria B and C.**
Area(s) of Historical Significance (see *National Register Bulletin 15*, p. 8 for categories: e.g. "architecture", "ethnic heritage", "community planning & development", etc.)
Architecture, conservation, entertainment/recreation, science _____

DOCUMENTATION

Accessible Documentation Not Filed with the Site File - including field & analysis notes, photos, plans, other important documents that are permanently accessible: For each separately maintained collection, describe (1) document type(s),* (2) maintaining organization,* (3) file or accession nos., and (4) descriptive information. **Field notes and photographs on file at AHC offices in Davie under project #2012.28.** _____

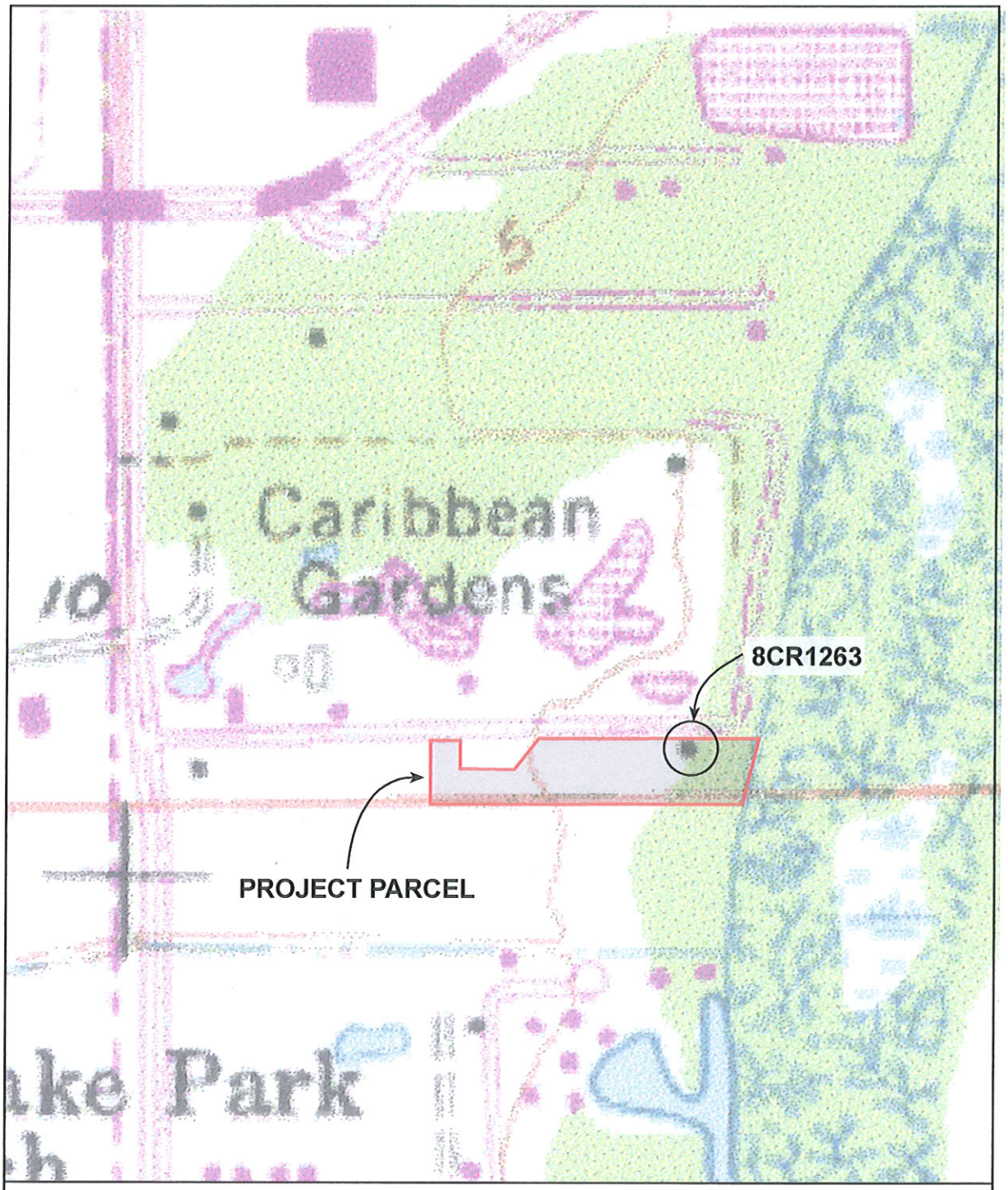
RECORDER INFORMATION

Recorder Name **Harrington, Timothy A.**
Recorder Contact Information (address / phone / fax / e-mail) **Archaeological and History Conservancy, Inc., 4800 SW 64 Ave, Ste 107. Davie, FL 33314 (954) 792-9776, fax (954) 792-9954, archlgcl@bellsouth.net** _____
Recorder Affiliation **AHC** _____

Use a *Supplement for Site Forms* or other continuation sheet for descriptions that do not fit in the spaces provided.

Required Attachments

❶ USGS 7.5' MAP WITH STRUCTURE LOCATION PINPOINTED IN RED
❷ LARGE SCALE STREET, PLAT OR PARCEL MAP (available from most property appraiser web sites)
❸ PHOTO OF MAIN FACADE, ARCHIVAL B&W PRINT OR DIGITAL IMAGE FILE
If submitting an image file, it must be included on disk or CD AND in hard copy format (plain paper is acceptable).
Digital image must be at least 1600 x 1200 pixels, 24-bit color, jpeg or tiff.



USGS Map of the Gordon River Greenway Park parcel showing the location of Triangle House, 8CR1263.

N

TOWNSHIP 49S, RANGE 25E, SECTION 27

USGS Map: NAPLES NORTH, REV. 1991

0 150 300 600 Feet approx.

FLORIDA DEPARTMENT of STATE

RICK SCOTT
Governor

KEN DETZNER
Secretary of State

July 6, 2012

Mr. Robert S. Carr
Archaeological and Historical Conservancy, Inc.
4800 SW 64th Avenue, Suite 107
Davie, Florida 33314

Re: *A Phase I Cultural Resource Assessment of the Gordon River Greenway Park Parcel, Collier County, Florida* (Archaeological & Historical Conservancy, Inc. May 2012) / DHR Project File No. 2012-2987

Dear Mr. Carr:

In accordance with this agency's responsibilities under Section 267.061, *Florida Statutes*, and Chapter 1A-46, *Florida Administrative Code*, we reviewed the referenced survey report, and find it will be complete and sufficient with some minor modifications. In April and May 2012, the Archaeological and Historical Conservancy, Inc. (AHC) conducted a Phase I archaeological survey of a 2.93 acre parcel which is a part of the Gordon River Greenway, a Florida Communities Trust project. As a result of this survey, one artifact occurrence was documented and a structure, 8CR1263. We note that AHC indicates that there is insufficient information available to determine individual eligibility for site 8CR1263.

The information in the report was presented to staff of our National Register section, and it was their opinion that this structure does not meet the criteria for listing on the National Register. Therefore, the removal of this structure from the property will have no effect on historic properties listed, or eligible for listing in the *National Register of Historic Places,* or otherwise of historical or archaeological value. However, additional documentation while not required, can be submitted for our files.

We note that archaeological monitoring of any ground disturbing activities is recommended. Consultation with Collier County staff indicates that this monitoring will occur.

Lastly, we request the following minor additions to the survey report:

- Pertinent law(s) under which this project were reviewed, i.e., Chapter 267, F.S.
- Indicate that no culture history was included in this report as previous reports conducted for various parcels of the greenway included a culture history.

If you have any questions concerning our comments, please do not hesitate to contact Susan Harp at 850.245.6367. Thank you for your interest in protecting Florida's historic resources.

Sincerely,

Laura A. Kammerer

Laura A. Kammerer, Historic Preservationist Supervisor
Compliance Review Section
Bureau of Historic Preservation

Pc: Mr. Tony Ruberto, Collier County

COLLIER COUNTY

NOTICE OF DECISION REGARDING APPLICATION FOR A CULTURAL SURVEY & ASSESSMENT

DATE ISSUED: _7/18/12

NAME OF PROJECT: ____Gordon River Greenway Park – Phase I Cultural Assessment__
HISTORIC/ARCHAEOLOGICAL DISTRICT: __N/A_____

TO: (APPLICANT): **Tony Ruberto, Collier County Government**
DEPARTMENT OF PLANNING & ZONING DIRECTOR
BUSINESS CENTER AND PERMITTING MANAGER
ZONING SERVICES SECTION MANAGER
DEPARTMENT OF ENGINEERING DIRECTOR

YOU ARE BY THIS INSTRUMENT ADVISED THAT ON **JULY 18, 2012**, THE HISTORIC & ARCHAEOLOGICAL PRESERVATION BOARD (HAPB) VOTED 4 TO 0 TO FIND:

___ APPROPRIATE
____ INAPPROPRIATE
_X__ APPROPRIATE SUBJECT TO THE FOLLOWING CONDITIONS:

Approve the development plans for the subject park as described in the Phase I Cultural Assessment subject to the following findings: A) No additional research or preservation action is required in regards to the Triangle home since this dwelling is not a historically significant structure; and B) No certified archaeologist is required to be present on-site to monitor any excavation as part of the park project.

FOR THE HISTORIC PRESERVATION BOARD Ray Bellm, Zoning Manager

APPEALS: Section 2.03.07.E. of the Collier County Land Development Code states the following. Any party aggrieved by a decision or interpretation of this Division made by the Community Development Services Administrator or the Preservation Board shall have the right to appeal-said interpretation, decision or denial to the BCC. The petitioner must file a written notice of appeal with the Community Development Services Administrator within thirty (30) working days from the date of such decision, interpretation, or denial. The Growth Management Division Administrator shall provide the BCC with a copy of said notice of appeal. The notice of appeal shall be provided to the applicant by certified mail, return receipt requested, and shall state the decision that is being appealed, the grounds for the appeal, and a brief summary of the relief, which is sought. Within thirty (30) working days of the date of filing the appeal, or the first regular County Commission meeting which is scheduled, whichever is latest in time, the Board of County Commissioners shall hear the appeal and issue a final decision. Nothing contained herein shall preclude the County Commissioners from seeking additional information prior to rendering a final decision.

FREEDOM PARK
(fka Gordon River Water Quality Park)

WETLAND MITIGATION
FIFTH ANNUAL MONITORING REPORT

NOVEMBER 2013

South Florida Water Management District
Permit No. 11-00820-S-02

Prepared for:

COLLIER COUNTY
STORMWATER MANAGEMENT DEPARTMENT
2885 Horseshoe Drive South, Suite 212
Naples, Florida 34104-6113

Prepared by:

JOHNSON ENGINEERING
2122 Johnson Street
Fort Myers, Florida 33901

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20087326-004 /
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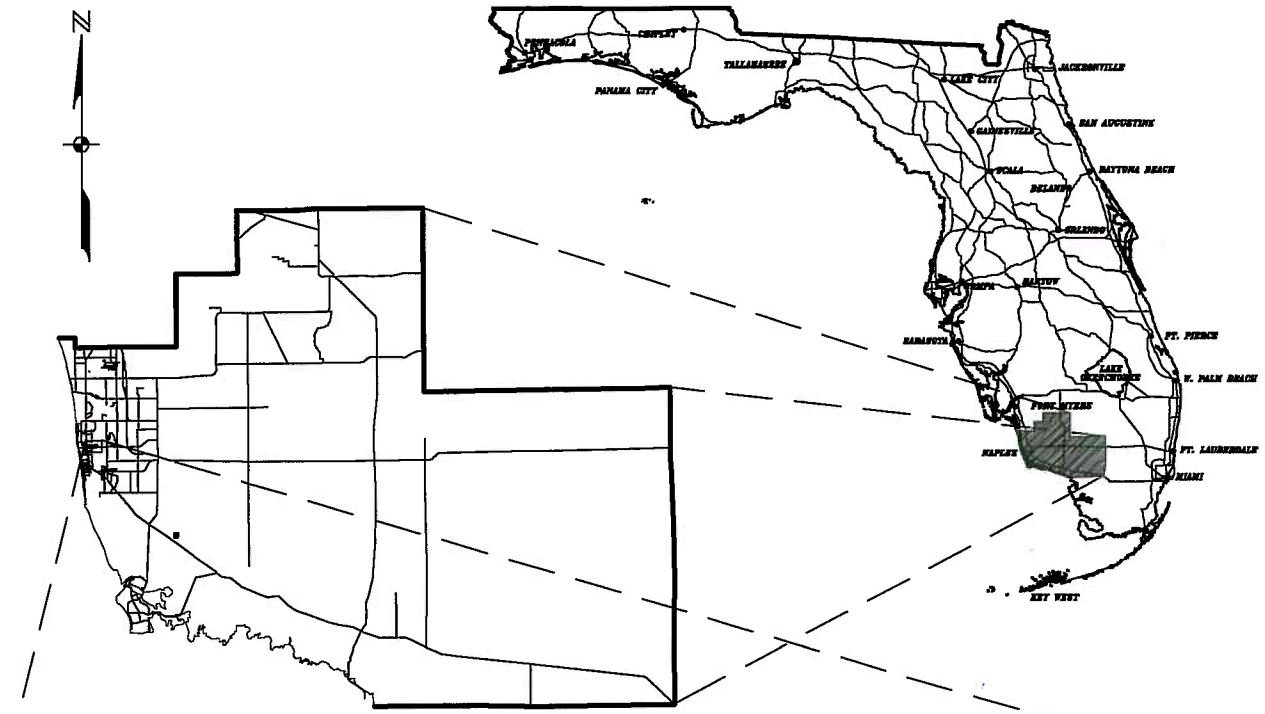
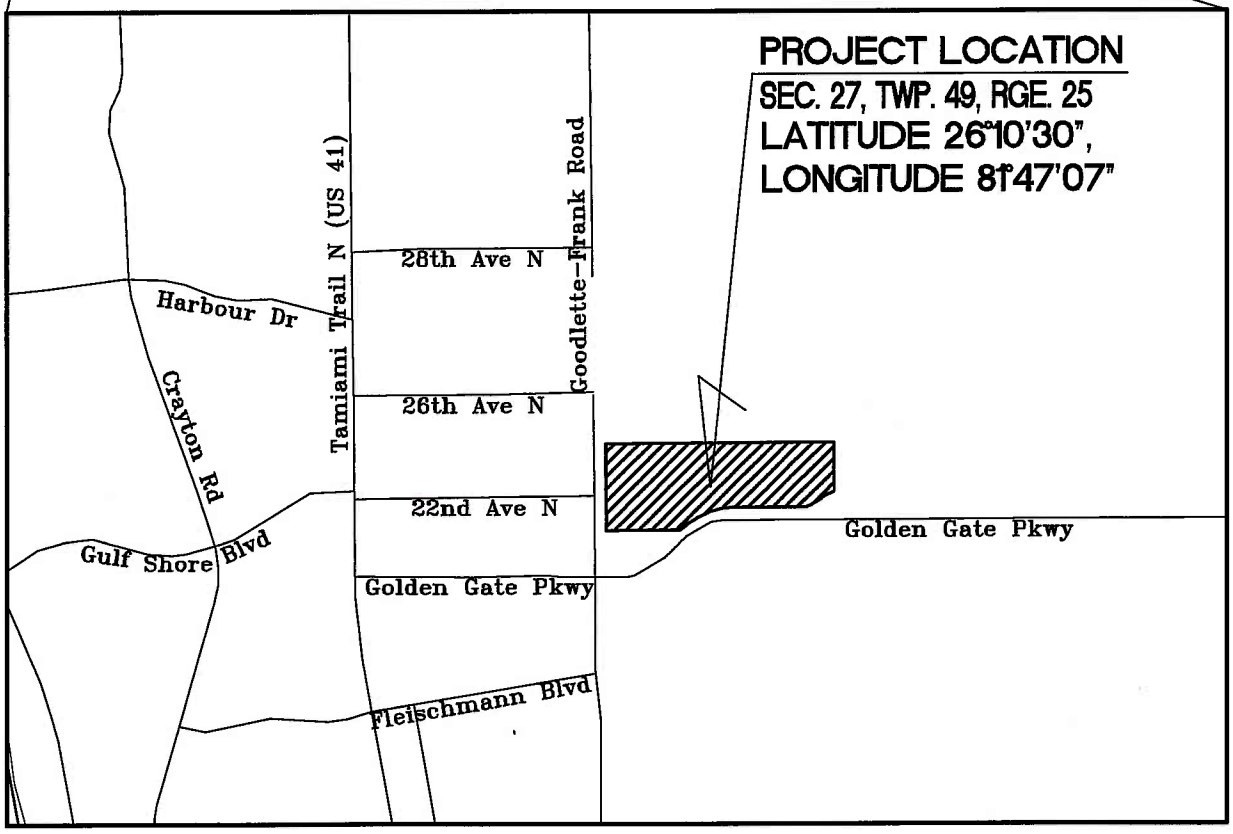
1.0 INTRODUCTION

South Florida Water Management District (SFWMD) Permit 11-00820-S-2 (Application No. 060816-7) was issued November 1, 2007 authorizing the construction and operation of a surface water management system for a 49.76-acre recreational park and educational facility known as Freedom Park (fka Gordon River Water Quality Park). To compensate for 0.51 acres of 100% secondarily impacted wetlands, the development provides a 12.5-acre mitigation area consisting of 10.5 acres of wetlands and 2.0 acres of uplands. The SFWMD permit required the mitigation area to be placed under a conservation easement, enhanced through exotic removal and supplemental plantings, and managed in perpetuity.

Freedom Park is located in the northeast corner of the intersection of Golden Gate Parkway and Goodlette Frank Road in the City of Naples, Collier County, Florida within Section 27, Township 49 South, Range 25 East. A project location map is provided as **Figure 1-1** of this report.

CH2MHILL permitted the project with the SFWMD, and Johnson Engineering, Inc. is conducting the post-permit monitoring associated with the onsite mitigation area. This Fifth Annual Monitoring Report documents the site conditions within the mitigation areas during the November 21, 2013 fifth annual monitoring event. Due to the high levels of water inundation during the 2013 rainy season, exotic maintenance was delayed into October, in turn pushing the final monitoring event into November. For a schedule of the monitoring reports, please see **Table 1-1**.





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FREEDOM PARK
PROJECT LOCATION MAP

DATE	PROJECT NO.	FILE NO.	SCALE	SHEET
OCT. 2008	20087326-04	27-49-25	As Shown	FIG 1-1

Table 1-1 Schedule of Monitoring Reports, Freedom Park Mitigation Area

Report Title	Due Date	Date Submitted
Baseline Monitoring Report	January 15, 2008	January 15, 2008
Time Zero Monitoring Report	October 31, 2008	October 31, 2008
First Annual Monitoring Report	October 31, 2009	November 3, 2009
Second Annual Monitoring Report	October 31, 2010	October 31, 2010
Third Annual Monitoring Report	October 31, 2011	November 2, 2011
Fourth Annual Monitoring Report	October 31, 2012	October 31, 2012
Fifth Annual Monitoring Report	October 31, 2013	December 18, 2013

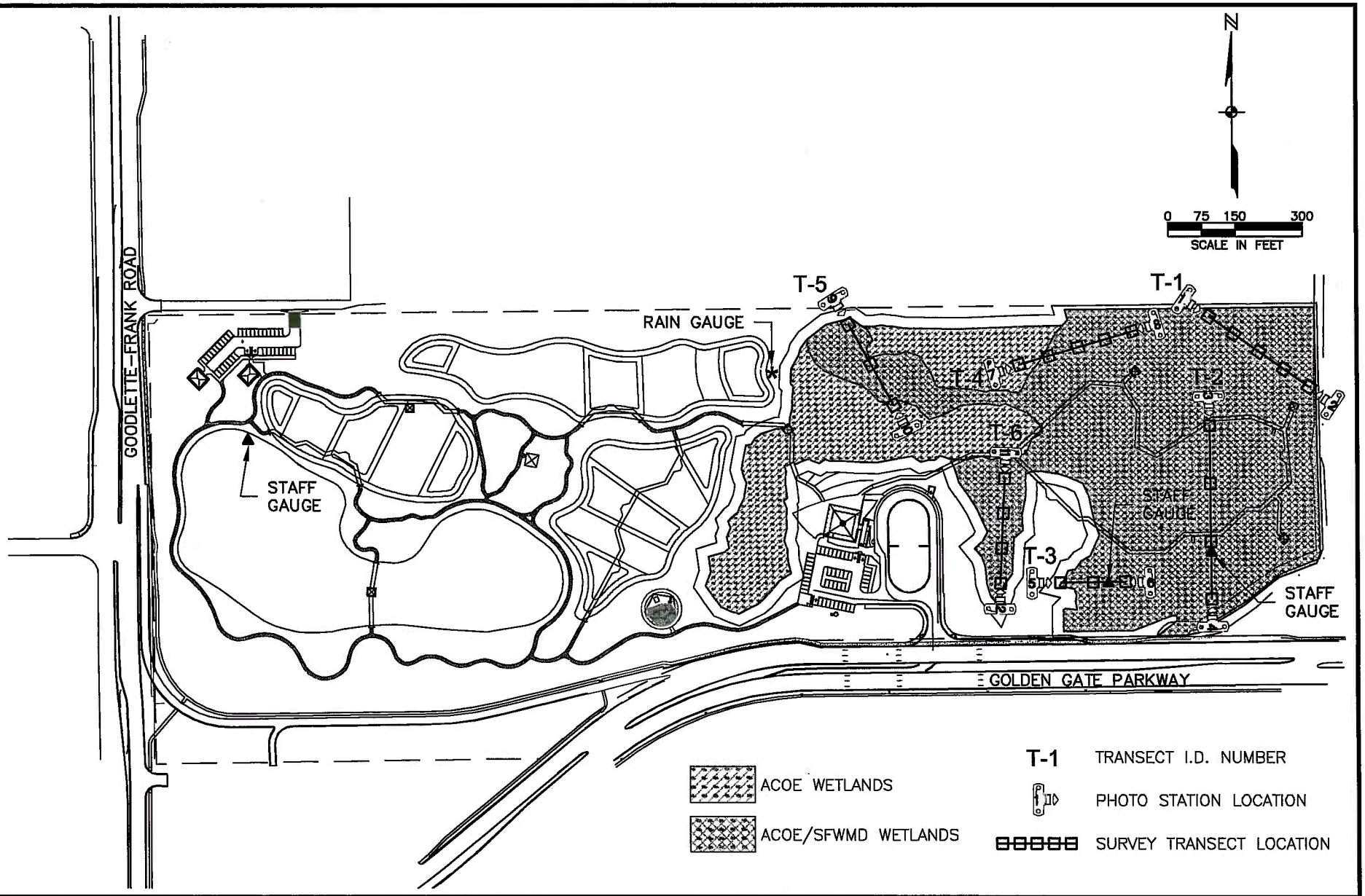
2.0 MONITORING METHODOLOGY

The monitoring program consists of the assessment of vegetation and hydrologic conditions along six transects within the mitigation area. Permanent study plots, photo stations, and three onsite staff gauges were installed just prior to the Time Zero Monitoring Event. A piezometer was installed between Transects 2 and 3 on May 3, 2012 to provide continual water level readings (above and below ground) in Wetland E. The data obtained from this well replaces the need for water level readings from the aforementioned staff gauges, as approved under Water Use Permit 11-03115-W (Application No. 111212-14) and ERP Application No. 120224-15, which were approved in early 2012. **Figure 1-2** provides the approximate locations of the wetland mitigation monitoring transects, vegetation sampling plots, panoramic photograph locations, staff gauges, rain gauge, and piezometer.

Between three and five $3m^2$ herbaceous and $10m^2$ midstory/canopy vegetation sampling plots are located along each permanent transect to assess vegetative conditions. Transects T-3 and T-5 each contain three sampling plots; Transects T-2 and T-6 each contain four sampling plots; Transects T-1 and T-4 contain five sampling plots. Groundcover analysis is performed in the $3m^2$ monitoring quadrats, while midstory and canopy vegetation is assessed in the $10m^2$ quadrats. Rainfall data is collected from the onsite rainfall gauge. Wetland monitoring was conducted semi-annually for the first three years, but is only required to be conducted annually for the following two years.

Mean percent coverage was recorded for all species occurring in the overstory and understory strata. The regional indicator status, as listed in the Wetland and Transition Plants of Peninsular Florida (Mohlenbrock, 1993) and Florida Department of Environmental Protection (FDEP) Vegetative Field Indicator lists for Chapter 62-340 (FAC), was determined for each species identified and used to help analyze vegetation assemblages along the transects. The regional indicator status for a species reflects the probability of a plant species occurring in a wetland versus non-wetland for a specific geographical region. The definition for each regional indicator status is listed in **Appendix A**.

Photo documentation of the conditions along the six transects during the Fifth Annual Monitoring Event can be found in **Appendix B**. Panoramic photos were taken at the end of each vegetation monitoring transect. In addition, one photo was taken at each vegetation sampling plot along the transect. Current water levels for each vegetation sampling plot were recorded during the monitoring event and are provided as hydrologic data, along with the well data obtained in Wetland E since installation of the piezometer in May 2012. Incidental observations of wildlife species, or signs thereof, noted utilizing the mitigation areas are also provided in this report.



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FREEDOM PARK
MITIGATION MONITORING LOCATION MAP

DATE	PROJECT NO.	FILE NO.	SCALE	SHEET
OCT. 2008	20087326-04	27-49-25	1" = 300'	FIG. 1-2

3.0 MONITORING RESULTS AND DISCUSSION

3.1 Vegetation Data

Tables 3-1 through **3-6** provide summaries of the vegetative sampling results for the study plots during the Freedom Park Fifth Annual Monitoring Event. The SFWMD indicator status and mean percent cover for each species identified are listed. **Appendix C** provides the monitoring data sheets for the vegetation species identified during the November 21, 2013 Fifth Annual Monitoring Event. A breakdown of the percent cover by each species and open area within each study plot is also provided in the data sheets.

Transect T-1

Transect T-1 is located near the northeast corner of the property and extends southeast through a mixed forested wetland community. Cypress (*Taxodium sp*., 11.00%), pond apple (*Annona glabra*, 8.60%), cabbage palm (*Sabal palmetto*, 8.40%) and red maple (*Acer rubrum*, 8.00%) were the dominant plant species recorded in the overstory/understory stratum. Total coverage in the stratum increased to 58.20% from 52.20% since the Fourth Annual Monitoring Event. Overall invasive exotic species coverage was 1.00%, a decrease from the Fourth Annual Monitoring Event. Climbing cassia (*Senna pendula*) coverage decreased from 0.80% to 0.60%. Primrose willow (*Ludwigia peruviana*) was not present for the first time during the past three monitoring events, however shoebutton ardisia (*Ardisia elliptica*) was present for the first time, with a coverage of 0.40%. Climbing cassia and shoebutton ardisia will be targeted during the ongoing exotic maintenance events. Despite the small amount of remaining exotic vegetation in the overstory/understory stratum, invasive exotic coverage is 69.00% below that observed during Baseline Monitoring conditions in January 2008.

Table 3-1

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-1.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Overstory/									
Understory									
Cypress	*Taxodium sp.*	OBL	0.00	9.00	11.00	11.00	11.00	11.00	**11.00**
Pond apple	*Annona glabra*	OBL	0.00	5.40	6.40	6.60	7.00	7.20	**8.60**
Cabbage palm	*Sabal palmetto*	FAC	10.00	8.00	8.00	8.00	8.00	8.00	**8.40**
Red maple	*Acer rubrum*	FACW	0.00	4.60	6.00	6.40	7.20	7.20	**8.00**
Carolina willow	*Salix caroliana*	OBL	0.00	2.00	2.00	5.00	5.00	5.00	**5.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	0.00	0.00	0.00	0.00	0.20	**3.40**
Laurel oak	*Quercus laurifolia*	FACW	6.60	0.60	0.60	1.00	2.00	2.00	**3.00**
Pop ash	*Fraxinus caroliniana*	OBL	0.00	2.00	2.00	2.40	2.40	2.40	**2.40**
Royal palm	*Roystonea regia*	FACW	0.00	1.40	2.00	2.00	2.00	2.00	**2.00**
Wax myrtle	*Myrica cerifera*	FAC	0.00	0.60	0.60	0.40	1.00	1.00	**1.60**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	0.60	1.20	1.00	**1.00**
Strangler fig	*Ficus aurea*	FAC	0.00	0.00	0.00	0.00	0.40	0.40	**1.00**
Swamp Bay	*Persea palustris*	FACW	0.00	0.00	0.00	0.00	0.00	0.00	**1.00**
Florida elderberry	*Sambucus canadensis*	FAC	0.00	0.00	0.00	0.00	1.20	1.00	**0.80**
Climbing cassia *	*Senna pendula*	NL	0.00	0.00	0.60	1.20	2.60	0.80	**0.60 ***
Shoebutton ardisia *	*Ardisia elliptica*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**0.40 ***
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.00	2.00	0.00	1.00	3.00	**0.00**
Myrsine	*Myrsine cubana*	FAC	2.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Slash pine	*Pinus elliottii*	UPL	5.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Red mangrove	*Rhizophora mangle*	OBL	0.00	3.00	3.00	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	21.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	27.00	0.00	1.80	1.40	0.20	0.00	**0.00**
Earleaf acacia *	*Acacia auriculiformis*	FAC	22.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Plant Total			93.60%	36.60%	46.00%	46.00%	52.20%	52.20%	58.20%
Open Total			64.00%	63.40%	54.00%	54.00%	47.80%	47.80%	41.80%

Table 3-1

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-1.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Herbaceous									
Leather fern	*Acrostichum danaeiifolium*	OBL	0.00	6.00	7.60	16.40	21.00	21.40	**33.00**
Smartweed	*Polygonum punctatum*	OBL	0.00	0.00	0.00	0.00	1.00	0.80	**11.00**
Bog hemp	*Boehmeria cylindrica*	OBL	0.00	0.00	0.00	2.60	3.80	2.80	**4.40**
Marsh fern	*Thelypteris palustris*	FACW	0.00	10.00	6.00	20.00	18.00	15.60	**4.20**
Possum grape	*Cissus verticillata*	NL	0.00	1.60	0.00	2.40	3.40	3.00	**2.80**
Marsh pennywort	*Hydrocotyle umbellata*	FACW	0.00	0.60	0.40	1.20	2.20	0.60	**2.80**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	0.80	5.00	0.40	0.00	1.60	**1.80**
Fall panicum	*Panicum dichotomiflorum*	FACW	0.00	0.00	0.00	0.00	0.00	0.00	**1.80**
Climbing hempweed	*Mikania scandens*	NL	0.00	2.00	5.60	5.60	0.60	0.40	**1.60**
Pickerel weed	*Pontederia cordata*	OBL	0.00	4.40	3.00	8.00	3.00	3.00	**1.60**
Cow pea	*Vigna luteola*	NL	0.00	0.40	0.00	0.00	0.00	0.00	**1.60**
Yerba de tajo	*Eclipta alba*	FACW	0.00	1.00	0.60	0.00	0.00	3.40	**1.40**
Dayflower	*Commelina diffusa*	FACW	0.00	0.00	0.00	1.00	0.00	1.20	**1.20**
Yellow canna	*Canna flaccida*	OBL	0.00	0.00	0.00	0.60	0.80	1.00	**1.00**
Water lettuce *	*Pistia stratiotes*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**1.00 ***
Salt marsh fleabane	*Pluchea odorata*	FACW	0.00	0.00	4.00	0.60	0.00	1.20	**0.80**
St. Andrew's Cross	*Hypericum hypericoides*	FAC	1.40	0.00	0.00	0.00	0.00	0.00	**0.60**
Florida pellitory	*Parietaria floridana*	FAC	0.00	0.00	1.00	0.00	0.00	0.00	**0.60**
Water spangles *	*Salvinia minima*	- - -	0.00	2.00	0.00	15.00	10.00	2.40	**0.60 ***
White vine	*Sarcostemma clausum*	NL	0.00	0.00	0.60	0.40	0.60	1.40	**0.60**
Pepper vine	*Ampelopsis arborea*	NL	0.00	2.40	0.00	0.00	0.00	0.00	**0.40**
Duckweed	*Lemna minor*	OBL	0.00	10.00	0.00	5.00	1.80	1.40	**0.40**
Red ludwigia	*Ludwigia repens*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**0.40**
Florida elderberry	*Sambucus canadensis*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**0.40**
Red maple	*Acer rubrum*	FACW	0.00	0.00	0.80	1.00	1.60	0.40	**0.20**
Purple ammannia	*Ammannia coccinea*	OBL	0.00	0.60	0.00	0.00	0.00	0.00	**0.20**
Shoebutton ardisia	*Ardisia elliptica*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**0.20**
Frog fruit	*Phyla nodiflora*	FAC	0.00	0.00	0.00	0.20	0.00	0.00	**0.20**
Beakrush	*Rhynchospora inundata*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**0.20**
Alligator weed	*Alternanthera philoxeroides*	OBL	0.00	0.00	0.00	0.20	0.00	0.00	**0.00**
Bushy beardgrass	*Andropogon glomeratus*	FACW	0.00	0.00	0.00	0.00	2.00	0.00	**0.00**
Pond apple	*Annona glabra*	OBL	0.00	0.40	0.40	0.00	0.00	0.00	**0.00**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.40	0.60	0.00	0.00	**0.00**
Swamp fern	*Blechnum serrulatum*	FACW+	0.20	0.00	0.00	0.40	0.40	0.00	**0.00**
Flatsedge	*Cyperus haspan*	OBL	0.00	0.80	0.00	0.00	0.00	0.00	**0.00**
Flatsedge	*Cyperus odoratus*	FACW	0.00	0.00	5.00	0.00	0.00	0.00	**0.00**
Air potato *	*Dioscorea bulbifera*	NL	0.00	1.60	0.00	0.00	0.00	0.00	**0.00**
Coastal cockspur	*Echinochloa walteri*	FACW	0.00	0.00	0.00	0.20	1.40	1.20	**0.00**
Pop ash	*Fraxinus caroliniana*	OBL	0.00	0.60	0.00	0.00	0.40	0.00	**0.00**
Morning glory	*Ipomoea sagittata*	NL	0.00	0.00	1.00	0.00	2.00	0.00	**0.00**
Primrose willow	*Ludwigia peruviana*	OBL	0.00	0.00	1.00	0.00	0.00	0.00	**0.00**
Water clover	*Marsilea sp.*	NL	0.00	0.00	0.00	0.00	0.00	1.00	**0.00**
Balsam apple **	*Momordica charantia*	NL	0.00	0.00	0.60	0.00	0.00	0.00	**0.00**
Torpedo grass	*Panicum repens*	FACW	0.00	0.40	1.00	0.00	0.00	0.00	**0.00**
Virginia creeper	*Parthenocissus quinquefolia*	NL	0.00	0.00	0.40	0.40	0.60	0.00	**0.00**
Paspalum	*Paspalum sp.*	- - -	0.00	0.00	0.00	0.00	0.80	0.00	**0.00**
Shiny coffee	*Psychotria nervosa*	FAC	0.00	0.80	0.00	0.00	0.00	0.00	**0.00**
Mock Bishop's weed	*Ptilimnium capillaceum*	FACW	0.00	0.00	10.00	1.00	0.00	0.00	**0.00**
Laurel oak	*Quercus laurifolia*	FACW	0.00	0.00	0.00	0.20	0.40	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	2.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Cabbage palm	*Sabal palmetto*	FAC	0.60	0.00	0.00	0.40	0.20	0.00	**0.00**
Carolina willow	*Salix caroliana*	OBL	0.00	0.00	0.00	0.00	1.00	1.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	0.60	0.60	0.40	0.20	0.00	0.00	**0.00**
Climbing cassia *	*Senna pendula*	NL	0.00	0.20	1.00	1.60	0.80	0.20	**0.00**
Greenbrier	*Smilax sp.*	- - -	1.40	0.00	0.00	0.00	0.40	0.00	**0.00**
Muscadine grape	*Vitis rotundifolia*	NL	0.40	0.00	0.00	0.00	0.00	0.00	**0.00**
Grape vine	*Vitis sp.*	- - -	0.00	12.00	0.00	0.00	0.00	0.00	**0.00**
Virginia chain fern	*Woodwardia virginica*	FACW	0.00	0.00	0.00	2.40	0.00	0.00	**0.00**
Plant Total			62.00%	59.20%	55.80%	89.00%	78.20%	65.00%	**77.00%**
Open Total			93.80%	40.80%	45.20%	11.40%	21.80%	35.00%	**23.00%**

* = FLEPPC Category I or II ** = Not Native *** = Native but requires treatment

Table 3-2

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-2.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Overstory & Understory									
Cypress	*Taxodium sp.*	OBL	2.50	23.75	23.75	25.00	27.50	27.50	**27.50**
Pond apple	*Annona glabra*	OBL	0.00	5.00	7.50	5.75	9.00	12.25	**14.50**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	0.00	2.00	3.00	**6.75**
White mangrove	*Laguncularia racemosa*	OBL	0.00	6.25	6.25	6.25	6.25	6.25	**6.25**
Red maple	*Acer rubrum*	FACW	0.00	0.00	0.00	0.00	2.50	3.75	**4.25**
Cabbage palm	*Sabal palmetto*	FAC	7.50	2.50	2.50	2.50	2.50	2.75	**3.00**
Wax myrtle	*Myrica cerifera*	FAC	0.00	1.25	1.25	0.75	1.00	1.25	**2.00**
Red mangrove	*Rhizophora mangle*	OBL	3.75	1.25	1.25	1.25	1.25	1.25	**1.75**
False willow	*Baccharis angustifolia*	OBL	0.00	0.00	0.00	0.00	0.00	1.00	**1.00**
Coin vine	*Dalbergia ecastaphyllum*	- - -	0.00	0.00	0.00	0.00	0.50	0.50	**0.75**
Laurel oak	*Quercus laurifolia*	FACW	6.25	0.00	0.00	0.00	0.00	0.50	**0.75**
Strangler fig	*Ficus aurea*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**0.25**
Earleaf acacia *	*Acacia auriculiformis*	FAC	3.75	0.00	0.00	0.00	0.00	0.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	11.25	0.00	0.25	0.25	0.00	0.00	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.00	0.25	0.25	0.00	0.00	**0.00**
Myrsine	*Myrsine guianensis*	FAC	2.50	0.00	0.00	0.00	0.00	0.00	**0.00**
Slash pine	*Pinus elliottii*	UPL	1.25	0.00	0.00	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	12.50	0.00	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	37.50	0.00	0.00	0.00	0.00	0.00	**0.00**
American elm	*Ulmus americana*	FACW	0.00	0.75	0.75	0.75	0.00	0.00	**0.00**
Plant Total			88.75%	40.75%	43.75%	42.75%	52.50%	60.00%	**68.75%**
Open Total			11.25%	59.25%	56.25%	57.25%	47.50%	40.00%	**31.25%**

Table 3-2

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-2.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Herbaceous									
Leather fern	*Acrostichum danaeiifolium*	OBL	0.00	11.25	13.75	21.50	24.50	30.75	**32.50**
Swamp lily	*Crinum americanum*	OBL	0.00	1.75	1.25	0.75	1.50	7.25	**14.50**
Sand cordgrass	*Spartina bakeri*	FACW	0.00	2.25	10.50	10.75	13.00	15.00	**11.25**
Water spangles *	*Salvinia minima*	- - -	0.00	10.50	5.00	6.25	6.25	6.25	**6.25***
Fall panicum	*Panicum dichotomiflorum*	FACW	0.00	0.00	0.00	0.00	0.00	2.50	**3.25**
Marsh pennywort	*Hydrocotyle umbellata*	FACW	0.00	0.25	0.00	0.50	0.50	1.25	**3.00**
Bog hemp	*Boehmeria cylindrica*	OBL	0.00	0.25	0.00	1.00	5.50	2.50	**2.75**
Thalia	*Thalia geniculata*	OBL	0.00	0.00	0.00	0.00	0.00	1.00	**2.50**
White vine	*Sarcostemma clausum*	NL	0.00	1.25	1.50	0.75	0.50	1.25	**2.25**
Smartweed	*Polygonum punctatum*	OBL	0.00	11.25	13.75	11.00	2.50	2.00	**2.00**
St. Andrew's Cross	*Hypericum hypericoides*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**2.00**
Climbing hempweed	*Mikania scandens*	NL	0.00	1.25	1.75	0.75	1.75	0.25	**2.00**
Bushy beardgrass	*Andropogon glomeratus*	FACW	0.00	0.00	0.00	1.25	2.00	2.50	**1.75**
Prairie iris	*Iris hexagona*	OBL	0.00	1.25	1.75	1.25	2.50	2.50	**1.75**
Salt marsh fleabane	*Pluchea odorata*	FACW	0.00	1.75	1.00	0.50	4.00	1.75	**1.75**
Possum grape	*Cissus verticillata*	- - -	0.00	0.50	0.00	0.00	0.75	1.00	**1.75**
Pond apple	*Annona glabra*	OBL	0.00	0.00	1.25	0.25	0.00	0.25	**1.75**
Spreading beakrush	*Rhynchospora divergens*	OBL	0.00	0.00	0.00	0.25	0.00	0.00	**1.50**
Cabbage palm	*Sabal palmetto*	FAC	1.25	0.00	0.75	0.75	1.25	1.00	**1.25**
Giant bulrush	*Scirpus californicus*	OBL	0.00	0.50	1.25	1.25	0.00	0.75	**1.25**
Cow pea	*Vigna luteola*	NL	0.00	0.00	0.00	0.00	3.00	0.75	**1.25**
Spanish needles	*Bidens alba*	FAC	0.00	0.00	0.00	0.00	2.50	0.50	**1.25**
Dayflower	*Commelina diffusa*	FACW	0.00	0.00	0.00	0.00	0.00	1.00	**1.00**
Eustachys	*Eustachys glauca*	FACW	0.00	0.00	0.00	0.00	0.00	1.00	**1.00**
Purple ammannia	*Ammannia coccinea*	OBL	0.00	0.00	0.00	0.25	3.75	4.50	**0.75**
Fimbry	*Fimbristylis sp.*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**0.75**
Water sprite **	*Ceratopteris thalictroides*	NL	0.00	0.00	0.00	0.00	0.50	0.50	**0.50****
Red mangrove	*Rhizophora mangle*	OBL	0.00	0.25	0.50	0.50	0.00	0.50	**0.50**
Cypress	*Taxodium sp.*	OBL	0.00	0.00	0.00	0.00	0.00	0.50	**0.50**
Old World climbing fern *	*Lygodium microphyllum*	FACW+	0.00	0.00	0.00	0.25	0.25	0.00	**0.50***
Yerba de tajo	*Eclipta alba*	FACW	0.00	0.00	0.50	0.00	0.25	2.00	**0.25**
Fireweed	*Erechtites hieraciifolius*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**0.25**
Red maple	*Acer rubrum*	FACW	0.00	0.00	0.50	0.25	1.50	0.75	**0.25**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	0.25	0.00	0.50	**0.25**
Marsh fern	*Thelypteris palustris*	FACW	0.00	0.00	0.00	0.00	0.00	0.00	**0.25**
Flatsedge	*Cyperus haspan*	OBL	0.00	0.00	0.00	0.00	0.00	0.75	**0.00**
Morning glory	*Ipomoea sagittata*	NL	0.00	0.50	0.00	0.00	1.00	0.75	**0.00**
Arrowhead	*Sagittaria graminea*	OBL	0.00	0.00	0.00	0.00	0.75	0.75	**0.00**
Buttonweed	*Diodia virginiana*	FACW	0.00	0.00	0.00	0.50	0.00	0.50	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	2.50	0.25	0.25	0.25	0.00	0.00	**0.00**
Swamp fern	*Blechnum serrulatum*	FACW	18.75	5.50	2.00	0.00	0.00	0.00	**0.00**
Flatsedge	*Cyperus odoratus*	FACW	0.00	3.75	3.25	0.00	0.25	0.00	**0.00**
Tropical flatsedge	*Cyperus surinamensis*	FACW	0.00	0.00	0.75	1.25	0.00	0.00	**0.00**
Coastal cockspur	*Echinochloa walteri*	FACW	0.00	0.00	0.00	0.25	0.00	0.00	**0.00**
Spike rush	*Eleocharis geniculata*	OBL	0.00	0.25	0.00	0.00	0.00	0.00	**0.00**
Rush	*Juncus sp*	OBL	0.00	0.00	0.00	0.00	0.25	0.00	**0.00**
Duckweed	*Lemna minor*	OBL	0.00	0.00	0.00	0.75	0.00	0.00	**0.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	2.00	0.00	0.00	0.00	0.00	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.25	0.00	0.00	0.00	0.00	**0.00**
Red ludwigia	*Ludwigia repens*	OBL	0.00	3.75	0.00	0.00	0.00	0.00	**0.00**
Ludwigia	*Ludwigia sp.*	- - -	0.00	0.00	0.00	0.25	0.25	0.00	**0.00**
Phasey bean **	*Macroptilium lathyroides*	NL	0.00	0.00	0.00	0.25	0.00	0.00	**0.00**
Myrsine	*Myrsine guianensis*	FAC	1.25	0.00	0.00	0.00	0.00	0.00	**0.00**
Frog fruit	*Phyla nodiflora*	FAC	0.00	3.75	0.00	0.00	0.25	0.00	**0.00**
Mock Bishop's weed	*Ptilimnium capillaceum*	FACW	0.00	0.00	11.25	0.00	0.00	0.00	**0.00**
Laurel oak	*Quercus laurifolia*	FACW	0.00	0.00	0.00	0.25	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	1.25	0.00	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	10.00	0.25	0.00	0.00	0.00	0.00	**0.00**
Three square	*Scirpus americanus*	OBL	0.00	0.00	0.00	0.25	0.25	0.00	**0.00**
Greenbrier	*Smilax sp.*	- - -	1.25	0.00	0.00	0.00	0.00	0.00	**0.00**
Nightshade *	*Solanum sp.*	NL	0.00	0.00	0.25	0.00	0.00	0.00	**0.00**
Southern cattail ***	*Typha domingensis*	OBL	0.00	0.50	1.00	0.00	0.00	0.00	**0.00**
Plant Total			36.25%	65.00%	73.75%	64.25%	81.50%	95.00%	**100% +**
Open Total			63.75%	35.00%	26.25%	35.75%	18.50%	5.00%	**0.00%**

Table 3-3

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-3.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Overstory & Understory									
Carolina willow	*Salix caroliana*	OBL	0.00	9.33	12.67	18.00	20.00	19.33	**19.67**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	2.33	6.33	8.67	**9.00**
Laurel oak	*Quercus laurifolia*	FACW	0.00	13.33	7.33	7.33	8.33	8.33	**8.33**
Red maple	*Acer rubrum*	FACW	0.00	2.67	1.00	2.67	3.33	5.00	**6.67**
Wax myrtle	*Myrica cerifera*	FAC	0.00	0.67	5.67	6.33	7.33	4.00	**6.33**
Cabbage palm	*Sabal palmetto*	FAC	6.67	14.00	5.67	5.67	5.67	5.67	**5.67**
Pond apple	*Annona glabra*	OBL	0.00	0.00	0.67	1.33	1.67	1.67	**2.67**
Sweet gum	*Liquidambar styraciflua*	FACW	0.00	0.67	0.67	0.67	1.00	1.67	**2.33**
Mahogany	*Swietenia mahagoni*	NL	0.00	0.67	0.67	1.67	1.67	2.00	**2.00**
Gumbo limbo	*Bursera simaruba*	NL	0.00	0.00	0.00	1.00	1.33	1.67	**2.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	0.00	0.00	0.00	0.00	1.67	**1.67**
False willow	*Baccharis angustifolia*	FACW	0.00	0.00	0.00	0.00	0.00	1.00	**1.67**
Myrsine	*Myrsine cubana*	FAC	0.00	0.00	0.00	0.67	1.33	1.33	**1.33**
Brazilian pepper	*Schinus terebinthifolius*	FAC	55.00	0.00	2.33	1.67	0.33	0.67	**0.00**
Primrose willow	*Ludwigia peruviana*	OBL	0.00	0.33	3.00	0.67	0.33	0.33	**0.00**
Climbing cassia	*Senna pendula*	NL	0.00	0.00	0.00	0.00	0.00	0.33	**0.00**
Earleaf acacia	*Acacia auriculiformis*	FAC	1.67	0.33	0.67	1.00	0.00	0.00	**0.00**
Shoebutton ardisia	*Ardisia elliptica*	FAC	5.00	0.00	0.00	0.00	0.67	0.00	**0.00**
Coco plum	*Chrysobalanus icaco*	FACW	0.00	0.33	0.00	0.00	0.00	0.00	**0.00**
Sweet bay	*Magnolia virginiana*	OBL	0.00	1.33	0.67	0.00	0.00	0.00	**0.00**
Slash pine	*Pinus elliottii*	UPL	1.67	0.67	0.00	0.00	0.00	0.00	**0.00**
Downy rosemyrtle	*Rhodomyrtus tomentosa*	FAC	31.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Java plum	*Syzygium cumini*	FAC	0.00	0.00	0.00	0.33	0.00	0.00	**0.00**
Plant Total			101.68%	44.33%	41.00%	51.33%	59.33%	63.34%	**69.33%**
Open Total			0.00%	55.67%	59.00%	52.00%	40.67%	36.66%	**30.67%**

Table 3-3

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-3.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Herbaceous									
Marsh fern	*Thelypteris palustris*	FACW	0.00	8.33	15.00	28.33	28.33	28.33	**30.00**
Sand cordgrass	*Spartina bakeri*	FACW	0.00	18.33	6.67	5.00	10.67	14.00	**11.67**
Water spangles *	*Salvinia minima*	- - -	0.00	0.00	0.00	0.00	0.00	6.67	**6.67***
Water sprite **	*Ceratopteris thalictroides*	NL	0.00	0.00	0.00	1.67	2.67	1.67	**5.00***
Purple ammannia	*Ammannia coccinea*	OBL	0.00	0.00	0.00	1.67	4.00	2.00	**3.33**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	2.00	0.00	0.00	0.00	0.00	**3.33**
Muhly grass	*Muhlenbergia capillaris*	OBL	0.00	5.00	1.67	3.33	6.67	6.67	**2.67**
Cabbage palm	*Sabal palmetto*	FAC	0.00	0.00	0.33	2.67	2.00	2.33	**2.33**
Leather fern	*Acrostichum danaeifolium*	OBL	0.00	0.00	0.00	2.00	1.67	2.00	**2.00**
Bushy beardgrass	*Andropogon glomeratus*	FACW	0.00	0.00	0.00	0.67	2.33	3.33	**1.67**
Spanish needles	*Bidens alba*	FAC	0.00	0.00	0.00	1.00	1.00	1.33	**1.67**
Flatsedge	*Cyperus surinamensis*	FACW	0.00	0.00	0.00	0.00	0.67	0.00	**1.67**
Swamp fern	*Blechnum serrulatum*	FACW	2.67	1.33	1.00	1.00	1.00	1.00	**1.33**
Knotroot foxtail	*Setaria geniculata*	FAC	0.00	0.00	0.00	1.67	0.67	1.67	**1.00**
Bull arrowhead	*Sagittaria lancifolia*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**1.00**
Salt marsh fleabane	*Pluchea odorata*	FACW	0.00	0.00	2.67	0.33	0.00	0.33	**1.00**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.33	1.00	0.00	0.00	**1.00**
Smartweed	*Polygonum punctatum*	OBL	0.00	0.00	11.67	5.00	0.00	0.00	**1.00**
Yerba de tajo	*Eclipta alba*	FACW	0.00	0.33	1.33	0.33	1.33	1.67	**0.67**
Bog hemp	*Boehmeria cylindrica*	OBL	0.00	0.00	0.00	0.00	0.00	1.00	**0.67**
Flatsedge	*Cyperus odoratus*	FACW	0.00	0.00	8.33	0.00	0.00	0.67	**0.67**
Cow pea	*Vigna luteola*	NL	0.00	0.00	1.00	0.67	2.33	0.67	**0.67**
Grape vine	*Vitis sp.*	- - -	0.00	0.33	0.33	0.67	0.67	0.67	**0.67**
Pond apple	*Annona glabra*	OBL	0.00	0.00	0.00	0.33	0.00	0.33	**0.67**
Dayflower	*Commelina diffusa*	FACW	0.00	0.00	0.00	0.00	0.00	0.00	**0.67**
Fireweed	*Erechtites hieraciifolius*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**0.67**
Climbing hempweed	*Mikania scandens*	NL	0.00	0.00	7.33	5.00	2.33	0.33	**0.67**
Laurel oak	*Quercus laurifolia*	FACW	0.00	0.00	0.33	0.00	0.67	0.33	**0.67**
Wax myrtle	*Myrica cerifera*	FAC	0.00	1.00	1.67	0.00	0.00	0.00	**0.67**
Old World climbing fern *	*Lygodium microphyllum*	NL	0.00	0.00	0.33	0.67	0.33	1.00	**0.33***
Red maple	*Acer rubrum*	FACW	0.00	0.33	0.00	0.00	1.33	0.33	**0.33**
Virginia creeper	*Parthenocissus quinquefolia*	NL	0.00	0.00	0.00	0.00	0.00	0.00	**0.33**
Duckweed	*Lemna minor*	OBL	0.00	0.00	0.00	0.00	1.33	1.33	**0.00**
Coastal cockspur	*Echinochloa walteri*	FACW	0.00	0.00	0.00	0.00	5.00	0.67	**0.00**
Water hyacinth *	*Eichornia crassipes*	NL	0.00	0.00	0.00	0.00	0.00	0.67	**0.00**
Rattlebox **	*Crotalaria sp.*	NL	0.00	0.00	0.33	0.00	0.00	0.33	**0.00**
White vine	*Sarcostemma clausum*	NL	0.00	0.00	0.00	0.67	0.67	0.33	**0.00**
Pepper vine	*Ampelopsis arborea*	NL	0.00	0.67	3.33	0.67	1.00	0.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	0.00	1.33	0.33	0.00	0.00	0.00	**0.00**
Yellow canna	*Canna flaccida*	OBL	0.00	0.67	0.00	0.00	0.00	0.00	**0.00**
Coco plum	*Chrysobalanus icaco*	FACW	0.00	1.67	1.00	0.00	0.00	0.00	**0.00**
Thistle	*Cirsium horridulum*	UPL	0.00	0.67	2.67	0.00	0.33	0.00	**0.00**
Flatsedge	*Cyperus haspan*	OBL	0.00	3.33	1.00	0.00	0.33	0.00	**0.00**
Swamp flatsedge	*Cyperus ligularis*	NL	0.00	0.00	1.67	0.00	1.00	0.00	**0.00**
Sedge	*Cyperus sp.*	- - -	0.00	13.33	0.00	6.67	5.00	0.00	**0.00**
Dog fennel ***	*Eupatorium capillifolium*	FAC	0.00	0.00	2.33	0.00	0.00	0.00	**0.00**
Marsh pennywort	*Hydrocotyle umbellata*	FACW	0.00	0.00	0.67	0.00	0.00	0.00	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	2.67	0.00	0.00	1.00	0.00	**0.00**
Guinea grass *	*Panicum maximum*	UPL	0.00	1.33	0.00	0.00	0.00	0.00	**0.00**
Florida pellitory	*Parietaria floridana*	FAC	0.00	0.00	1.00	0.00	0.00	0.00	**0.00**
Pickerel weed	*Pontederia cordata*	OBL	0.00	0.00	0.33	0.00	0.00	0.00	**0.00**
Mock Bishop's weed	*Ptilimnium capillaceum*	FACW	0.00	0.00	5.00	0.00	0.00	0.00	**0.00**
Carolina willow	*Salix caroliana*	OBL	0.00	0.00	0.00	0.00	0.33	0.00	**0.00**
Water pimpernel	*Samolus ebracteatus*	OBL	0.00	0.00	0.67	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	0.67	1.00	4.33	0.33	0.00	0.00	**0.00**
Sweet broom	*Scoparia dulcis*	FAC	0.00	0.67	0.67	0.67	0.00	0.00	**0.00**
Climbing cassia *	*Senna pendula*	NL	0.00	0.00	0.67	0.00	0.00	0.00	**0.00**
Sida	*Sida sp.*	- - -	0.00	0.00	0.00	1.67	0.00	0.00	**0.00**
Poison ivy	*Toxicodendron radicans*	NL	0.00	0.67	0.00	0.00	0.00	0.00	**0.00**
Southern cattail ***	*Typha domingensis*	OBL	0.00	0.33	0.00	0.00	0.00	0.00	**0.00**
Caesar weed *	*Urena lobata*	UPL	0.00	0.33	0.00	0.33	0.67	0.00	**0.00**
Plant Total			33.33%	63.67%	81.00%	74.00%	85.67%	81.66%	**86.70%**
Open Total			96.67%	36.33%	19.00%	26.00%	14.33%	18.34.%	**13.30%**

Table 3-4

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-4.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Overstory & Understory									
Pond apple	*Annona glabra*	OBL	0.00	19.00	19.00	22.40	28.00	30.00	**32.00**
Cabbage palm	*Sabal palmetto*	FAC	4.60	9.00	9.00	9.00	8.00	8.00	**8.00**
Laurel oak	*Quercus laurifolia*	FACW	2.00	1.60	2.00	2.80	5.40	5.40	**6.80**
Red maple	*Acer rubrum*	FACW	0.00	2.60	3.00	3.80	4.40	4.60	**5.80**
Cypress	*Taxodium sp.*	OBL	0.00	4.60	4.60	4.60	4.60	4.60	**4.60**
Slash pine	*Pinus elliottii*	UPL	6.00	3.00	3.00	4.00	4.00	4.00	**4.00**
Pop ash	*Fraxinus caroliniana*	OBL	0.00	2.00	2.40	2.60	2.60	2.80	**3.00**
Strangler fig	*Ficus aurea*	FAC	0.00	2.00	2.00	2.00	2.00	2.20	**2.80**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	1.00	2.60	2.00	**2.60**
Myrsine	*Myrsine cubana*	FAC	0.60	0.40	0.40	0.40	1.00	1.00	**1.60**
Royal palm	*Roystonea regia*	FACW	0.00	1.00	1.00	1.00	1.00	1.00	**1.00**
Shiny coffee	*Psychotria nervosa*	FAC	0.00	0.40	0.40	0.80	0.80	0.80	**0.80**
Swamp Bay	*Persea palustris*	FACW	0.00	0.00	0.00	0.00	0.20	0.40	**0.80**
Queen palm *	*Syagrus romanzoffiana*	- - -	0.00	0.00	0.00	0.00	0.00	0.40	**0.80***
Florida elderberry	*Sambucus canadensis*	FAC	0.00	0.00	0.00	0.20	1.20	1.20	**0.60**
False willow	*Baccharis angustifolia*	FACW	0.00	0.00	0.00	0.00	0.00	0.60	**0.60**
Dahoon holly	*Ilex cassine*	OBL	0.00	0.40	0.40	0.40	0.40	0.40	**0.60**
Carolina willow	*Salix caroliana*	OBL	0.00	0.00	0.00	0.00	0.40	0.40	**0.60**
Buttonbush	*Cephalanthus occidentalis*	OBL	0.00	0.60	0.80	0.40	0.40	0.40	**0.40**
Climbing cassia *	*Senna pendula*	NL	0.00	0.00	1.00	0.60	0.00	0.00	**0.20***
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	0.00	0.00	0.00	0.00	1.00	**0.00**
Earleaf acacia *	*Acacia auriculiformis*	FAC	2.40	0.00	0.00	0.00	0.00	0.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	8.60	0.00	0.00	0.00	0.00	0.00	**0.00**
Coconut palm *	*Cocos nucifera*	NL	0.00	0.60	1.00	0.00	0.40	0.00	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.00	0.00	0.00	0.60	0.00	**0.00**
Wax myrtle	*Myrica cerifera*	FAC	0.00	0.00	0.60	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	54.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	4.00	0.00	2.80	1.40	0.20	0.00	**0.00**
Java plum *	*Syzgium cumini*	FAC	12.67	0.00	0.40	0.40	0.00	0.00	**0.00**
Plant Total			86.20%	47.20%	54.40%	57.80%	68.20%	71.20%	**77.60%**
Open Total			13.80%	52.80%	45.60%	42.20%	31.80%	28.80%	**22.40%**

Table 3-4

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-4.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Herbaceous									
Swamp fern	*Blechnum serrulatum*	FACW	0.00	8.80	8.00	15.00	14.00	16.00	**12.00**
Leather fern	*Acrostichum danaeifolium*	OBL	0.00	3.00	3.00	4.80	7.40	8.00	**8.60**
Marsh fern	*Thelypteris palustris*	FACW	0.00	8.00	1.00	2.00	3.00	4.00	**8.00**
Spanish needles	*Bidens alba*	OBL	0.00	0.40	15.00	22.00	4.80	5.60	**5.00**
Dayflower	*Commelina diffusa*	FACW	0.00	0.00	0.00	0.00	0.00	1.80	**5.00**
Water grass	*Luziola fluitans*	NL	0.00	0.00	0.00	0.00	0.00	1.40	**4.00**
Possum grape	*Cissus verticillata*	- - -	0.00	0.00	0.00	3.00	1.40	2.80	**2.60**
Marsh pennywort	*Hydrocotyle umbellata*	FACW	0.00	0.00	0.60	4.00	0.40	1.60	**1.80**
White vine	*Sarcostemma clausum*	NL	0.00	0.40	0.60	1.40	0.80	1.20	**1.20**
Climbing hempweed	*Mikania scandens*	NL	0.00	0.60	1.00	0.00	0.60	0.40	**1.20**
Sedge	*Cyperus sp.*	- - -	0.00	0.00	0.00	7.00	2.00	1.60	**1.00**
Fireweed	*Erechtites hieraciifolius*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**1.00**
Caesar weed *	*Urena lobata*	UPL	0.00	5.40	1.60	3.60	3.80	4.00	**0.80***
Pond apple	*Annona glabra*	OBL	0.00	0.00	0.20	0.00	1.40	1.40	**0.80**
Bog hemp	*Boehmeria cylindrica*	OBL	0.00	0.00	0.60	1.60	2.40	1.00	**0.80**
Laurel oak	*Quercus laurifolia*	FACW	0.00	0.00	0.00	0.00	0.00	0.40	**0.80**
Frog fruit	*Phyla nodiflora*	FAC	0.00	0.00	4.00	0.60	1.00	0.00	**0.60**
Panic grass	*Dicanthelium erectifolium*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**0.40**
Virginia creeper	*Parthenocissus quinquefolia*	NL	0.00	0.40	0.40	0.40	0.80	0.60	**0.40**
Balsam apple **	*Momordica charantia*	NL	0.00	0.00	0.00	0.00	1.00	0.40	**0.40***
Red maple	*Acer rubrum*	FACW	0.00	0.00	6.40	3.00	1.40	0.00	**0.40**
Shiny coffee	*Psychotria nervosa*	FAC	0.00	0.00	0.40	0.00	0.00	0.00	**0.40**
Dog fennel ***	*Eupatorium capillifolium*	FAC	0.00	0.00	0.00	0.00	0.00	0.40	**0.20***
Spurge	*Chamaesyce sp.*	- - -	0.00	0.00	0.00	0.00	0.60	0.20	**0.20**
Poison ivy	*Toxicodendron radicans*	NL	0.00	0.00	0.00	1.00	0.20	0.20	**0.20**
Water spangles *	*Salvinia minima*	- - -	0.00	0.00	0.00	2.00	2.00	3.60	**0.00**
Ironweed	*Vernonia gigantea*	FACW	0.00	0.00	0.40	0.00	1.00	3.60	**0.00**
Bushy beardgrass	*Andropogon glomeratus*	FACW	0.00	0.60	0.00	1.60	1.00	1.00	**0.00**
Climbing aster	*Aster carolinianus*	OBL	0.00	0.00	0.00	0.00	0.00	0.80	**0.00**
Rosary pea *	*Abrus precatorius*	NL	0.00	0.00	0.00	0.60	0.00	0.60	**0.00**
Coastal cockspur	*Echinochloa walteri*	OBL	0.00	0.00	4.00	0.00	1.60	0.60	**0.00**
Smartweed	*Polygonum punctatum*	OBL	0.00	0.40	1.00	4.00	0.00	0.60	**0.00**
Rattlebox **	*Crotalaria sp.*	NL	0.00	0.00	0.00	0.00	0.80	0.40	**0.00**
Duckweed	*Lemna minor*	OBL	0.00	22.00	3.00	0.60	0.40	0.40	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.00	0.00	0.00	0.00	0.40	**0.00**
Water primrose	*Ludwigia repens*	NL	0.00	0.00	0.00	0.00	0.00	0.40	**0.00**
Old World climbing fern *	*Lygodium microphyllum*	NL	0.00	0.00	0.00	1.40	0.00	0.20	**0.00**
Unknown herb	- - -	- - -	0.00	0.00	0.00	0.60	0.00	0.00	**0.00**
Purple ammannia	*Ammannia coccinea*	OBL	0.00	0.00	0.00	0.00	0.20	0.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	2.40	0.00	1.00	0.00	0.00	0.00	**0.00**
Fishtail palm **	*Caryota mitis*	- - -	0.00	0.00	0.00	0.00	0.40	0.00	**0.00**
Thistle	*Cirsium horridulum*	UPL	0.00	0.00	0.60	0.00	0.00	0.00	**0.00**
Swamp lily	*Crinum americanum*	OBL	0.00	0.40	0.40	0.00	0.00	0.00	**0.00**
Flatsedge	*Cyperus haspan*	OBL	0.00	1.40	0.40	0.00	0.00	0.00	**0.00**
Flatsedge	*Cyperus odoratus*	FACW	0.00	0.00	2.00	0.00	0.00	0.00	**0.00**
Crabgrass	*Digitaria sp.*	- - -	0.00	4.00	0.40	0.00	0.00	0.00	**0.00**
Buttonweed	*Diodia virginiana*	FACW	0.00	0.00	0.00	0.00	0.80	0.00	**0.00**
Yerba de tajo	*Eclipta alba*	FACW	0.00	0.00	0.40	0.00	0.00	0.00	**0.00**
Roadgrass	*Eleocharis baldwinii*	OBL	0.00	0.60	0.00	0.00	0.00	0.00	**0.00**
Dog fennel ***	*Eupatorium leptophyllum*	OBL	0.00	0.40	0.60	0.00	0.00	0.00	**0.00**
Pop ash	*Fraxinus caroliniana*	OBL	0.00	0.00	1.00	0.00	0.00	0.00	**0.00**
Cudweed	*Gnaphalium sp.*	NL	0.00	0.00	1.00	0.00	0.00	0.00	**0.00**
Morning glory	*Ipomoea sagittata*	NL	0.00	0.60	0.20	0.00	0.00	0.00	**0.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	0.40	0.00	0.40	0.40	0.00	**0.00**
Florida pellitory	*Parietaria floridana*	FAC	0.00	0.00	3.00	0.00	0.00	0.00	**0.00**
Salt marsh fleabane	*Pluchea odorata*	FACW	0.00	0.00	0.00	0.00	0.40	0.00	**0.00**
Mock Bishop's weed	*Ptilimnium capillaceum*	FACW	0.00	0.00	7.60	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	0.00	1.60	0.80	0.60	0.00	0.00	**0.00**
Cabbage palm	*Sabal palmetto*	FAC	0.40	0.00	0.00	0.20	0.20	0.00	**0.00**
Arowhead	*Sagittaria graminea*	OBL	0.00	0.40	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	0.00	1.20	1.00	0.00	0.00	0.00	**0.00**
Climbing cassia *	*Senna pendula*	NL	0.00	0.00	0.80	0.00	0.00	0.00	**0.00**
Nightshade *	*Solanum sp.*	NL	0.00	0.00	0.20	0.00	0.00	0.00	**0.00**
Southern cattail ***	*Typha domingensis*	OBL	0.00	0.40	0.00	0.00	0.00	0.00	**0.00**
Cow pea	*Vigna luteola*	NL	0.00	0.60	0.00	0.00	0.00	0.00	**0.00**
Muscadine grape	*Vitis rotundifolia*	NL	7.00	0.00	2.00	2.00	0.60	0.00	**0.00**
Grape vine	*Vitis sp.*	- - -	0.00	0.40	0.60	0.00	0.00	0.00	**0.00**
Plant Total			9.80%	62.40%	78.40%	86.40%	56.80%	65.60%	**57.80%**
Open Total			90.20%	38.20%	21.60%	17.40%	43.20%	34.40%	**42.20%**

Table 3-5

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-5.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Overstory & Understory									
Laurel oak	*Quercus laurifolia*	FACW	10.00	16.00	16.33	20.00	25.00	28.33	**31.67**
Coco plum	*Chrysobalanus icaco*	FACW	0.00	0.00	0.00	2.00	3.33	5.33	**13.33**
Slash pine	*Pinus elliottii*	UPL	0.00	10.00	10.00	10.00	10.00	10.00	**10.33**
Cabbage palm	*Sabal palmetto*	FAC	3.33	6.67	6.67	8.33	8.33	8.33	**9.00**
Red maple	*Acer rubrum*	FACW	2.33	2.67	3.00	3.33	3.33	3.33	**5.00**
Wax myrtle	*Myrica cerifera*	FAC	0.00	2.67	2.67	2.33	2.67	3.00	**4.00**
Myrsine	*Myrsine cubana*	FAC	0.00	2.33	2.33	3.33	3.33	3.33	**3.33**
Shiny coffee	*Psychotria nervosa*	FAC	0.67	1.00	1.00	2.33	3.33	3.33	**3.33**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	1.00	1.67	1.67	**1.67**
Dahoon holly	*Ilex cassine*	OBL	0.00	1.00	1.00	1.00	1.67	1.67	**1.67**
Senegal date palm *	*Phoenix reclinata*	NL	0.00	0.00	0.67	1.33	1.33	1.33	**1.67***
Buttonbush	*Cephalanthus occidentallis*	OBL	1.33	0.00	1.67	1.33	2.33	1.33	**1.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	0.00	0.00	0.00	0.00	1.33	**0.00**
Eraleaf acacia *	*Acacia auriculiformis*	FAC	2.67	0.00	0.00	1.00	1.33	1.00	**0.00**
Climbing cassia*	*Senna pendula*	NL	0.00	0.00	0.00	0.00	0.00	0.67	**0.00**
Java plum *	*Syzgium cumini*	FAC	12.67	0.00	0.00	0.00	0.00	0.67	**0.00**
Pond apple	*Annona glabra*	OBL	0.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	2.33	0.00	0.00	0.00	0.00	0.00	**0.00**
Strangler fig	*Ficus aurea*	FAC	0.00	0.33	0.33	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	2.67	0.00	0.00	0.00	1.67	0.00	**0.00**
Carolina willow	*Salix caroliniana*	OBL	3.33	0.00	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	40.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Plant Total			82.00%	42.67%	45.67%	57.33%	69.33%	74.65%	**86.00%**
Open Total			18.00%	57.33%	54.33%	42.67%	30.67%	25.35%	**14.00%**

Table 3-5

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-5.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Herbaceous									
Marsh fern	*Thelypteris palustris*	FACW	3.33	0.33	0.33	1.00	1.33	3.33	**13.33**
Swamp fern	*Blechnum serrulatum*	FACW	5.67	20.00	8.33	28.33	26.67	20.00	**10.00**
Poison ivy	*Toxicodendron radicans*	NL	0.00	0.00	1.00	0.33	1.00	1.00	**6.67**
Greenbrier	*Smilax sp.*	- - -	0.00	5.00	2.67	1.00	1.67	2.67	**5.00**
Coco plum	*Chrysobalanus icaco*	FACW	0.00	5.00	5.00	3.33	2.33	3.33	**3.33**
Laurel oak	*Quercus laurifolia*	FACW	0.00	1.00	1.00	3.33	3.33	2.67	**3.00**
Smooth buttonweed	*Spermacoce assurgens*	NL	0.00	0.00	0.00	1.33	1.67	1.67	**2.67**
Cabbage palm	*Sabal palmetto*	FAC	1.00	0.00	3.67	2.33	2.00	2.00	**2.00**
Summer grape	*Vitis aestivalis*	NL	0.00	0.00	0.00	0.00	0.00	1.33	**1.67**
Marsh pennywort	*Hydrocotyle umbellata*	FACW	2.33	0.00	0.00	0.00	0.00	0.00	**1.33**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	0.67	1.67	1.67	**1.00**
Spanish needles	*Bidens alba*	OBL	0.00	0.00	2.67	0.00	3.33	1.67	**1.00**
White vine	*Sarcostemma clausum*	NL	1.67	0.33	0.00	1.00	1.67	0.67	**1.00**
Climbing hempweed	*Mikania scandens*	NL	0.00	2.00	2.67	5.33	2.67	4.33	**0.67**
Pond apple	*Annona glabra*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**0.67**
Cow pea	*Vigna luteola*	NL	0.00	1.00	1.33	0.67	1.33	1.67	**0.67**
Queen palm *	*Syagrus romanzoffiana*	- - -	0.00	0.00	0.00	0.00	0.00	0.00	**0.33***
Pepper vine	*Ampelopsis arborea*	NL	0.00	0.00	0.67	1.67	1.67	2.67	**0.00**
Buttonweed	*Diodia virginiana*	FACW	0.00	0.33	1.33	0.33	0.00	2.33	**0.00**
Bushy beardgrass	*Andropogon glomeratus*	FACW	0.00	0.00	0.00	0.00	0.00	1.33	**0.00**
Jointed spikerush	*Eleocharis interstincta*	OBL	0.00	0.00	0.00	0.00	0.00	1.33	**0.00**
Earleaf acacia *	*Acacia auriculiformis*	FAC	0.00	2.00	3.00	1.33	0.67	1.00	**0.00**
Purple ammannia	*Ammannia coccinea*	OBL	0.00	0.00	0.00	0.00	0.00	1.00	**0.00**
Spurge	*Chamaesyce sp.*	- - -	0.00	0.00	0.00	0.00	0.00	1.00	**0.00**
St. John's wort	*Hypericum myrtifolium*	FACW	0.00	0.00	0.00	0.00	0.00	1.00	**0.00**
American cupscale	*Sacciolepis striata*	OBL	0.00	0.00	0.00	0.00	0.00	1.00	**0.00**
Common ragweed	*Ambrosia artemisiifolia*	FAC	0.00	0.00	0.00	0.00	0.67	0.67	**0.00**
Carpetgrass	*Axonopus furcatus*	OBL	0.00	0.00	0.00	0.00	0.67	0.67	**0.00**
Yerba de tajo	*Eclipta alba*	FACW	0.00	2.00	0.33	0.00	0.00	0.67	**0.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	1.67	0.00	1.00	0.67	0.67	**0.00**
Caesar weed *	*Urena lobata*	UPL	0.00	0.00	0.00	0.00	0.00	0.33	**0.00**
Red maple	*Acer rubrum*	FACW	0.00	0.00	0.33	0.00	0.67	0.00	**0.00**
Broomsedge	*Andropogon virginicus*	FAC	0.00	1.00	0.00	1.33	2.67	0.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	0.33	0.00	0.00	0.00	0.00	0.00	**0.00**
Buttonbush	*Cephalanthus occidentalis*	OBL	0.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Thistle	*Cirsium horridulum*	UPL	0.00	0.00	0.00	0.00	0.67	0.00	**0.00**
Dayflower	*Commelina diffusa*	FACW	0.00	2.33	0.00	0.00	0.00	0.00	**0.00**
Columbian waxweed **	*Cuphea carthagenensis*	FACW	0.00	0.00	0.00	0.00	1.00	0.00	**0.00**
Flatsedge	*Cyperus haspan*	OBL	0.00	3.67	1.00	0.00	0.00	0.00	**0.00**
Flatsedge	*Cyperus surinamensis*	FACW	0.00	0.00	0.00	0.67	1.33	0.00	**0.00**
Love grass	*Eragrostis sp.*	- - -	0.00	1.00	0.00	1.00	0.67	0.00	**0.00**
Dog fennel ***	*Eupatorium capillifolium*	FAC	0.00	0.00	0.00	0.67	1.00	0.00	**0.00**
Eustachys	*Eustachys glauca*	FACW	0.00	0.00	0.00	0.33	0.00	0.00	**0.00**
St. John's wort	*Hypericum sp.*	- - -	0.00	1.67	0.00	0.00	0.00	0.00	**0.00**
Curtis's ludwigia	*Ludwigia curtissii*	OBL	0.00	1.67	0.00	0.00	0.00	0.00	**0.00**
Old World climbing fern *	*Lygodium microphyllum*	NL	26.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Loosestrife	*Lythrum alatum*	OBL	0.00	5.00	0.00	0.00	0.00	0.00	**0.00**
Royal fern	*Osmunda regalis*	OBL	17.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Florida pellitory	*Parietaria floridana*	FAC	0.00	0.00	1.33	0.00	0.00	0.00	**0.00**
Virginia creeper	*Parthenocissus quinquefolia*	NL	0.00	0.00	0.67	0.00	1.00	0.00	**0.00**
Denseflower knotweed	*Polygonum densiflorum*	OBL	0.00	0.00	1.67	0.00	0.00	0.00	**0.00**
Shiny coffee	*Psychotria nervosa*	FAC	1.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Mock Bishop's weed	*Ptilimnium capillaceum*	FACW	0.00	0.00	14.67	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	0.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Wild petunia	*Ruellia caroliniensis*	FAC	0.00	0.00	0.00	0.00	0.67	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	1.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Three square	*Scirpus americanus*	OBL	0.00	1.33	0.00	0.67	1.33	0.00	**0.00**
Nut rush	*Scleria reticularis*	FACW	0.00	1.00	0.00	0.00	0.00	0.00	**0.00**
Climbing cassia *	*Senna pendula*	NL	0.00	0.33	0.67	0.00	0.00	0.00	**0.00**
Muscadine grape	*Vitis rotundifolia*	NL	0.00	0.00	1.00	1.00	1.00	0.00	**0.00**
Creeping oxeye *	*Wedelia trilobata*	FAC	0.00	0.00	0.00	0.33	0.00	0.00	**0.00**
Plant Total			63.33%	59.67%	55.33%	59.00%	64.33%	63.68%	**54.33%**
Open Total			36.67%	40.33%	44.67%	49.33%	35.67%	36.32%	**45.67%**

Table 3-6

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-6.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Overstory & Understory									
Laurel oak	*Quercus laurifolia*	FACW	10.00	22.50	23.50	28.75	28.75	31.25	**31.25**
Red maple	*Acer rubrum*	FACW	0.00	15.50	18.50	20.75	19.25	19.50	**20.25**
Myrsine	*Myrsine cubana*	FAC	1.67	9.50	11.25	15.00	15.00	15.00	**15.00**
Cabbage palm	*Sabal palmetto*	FAC	15.00	5.50	5.75	5.00	5.00	5.25	**5.25**
Shiny coffee	*Psychotria nervosa*	FAC	0.00	0.00	0.25	1.00	1.00	2.00	**2.00**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	0.50	1.25	1.25	**2.00**
Wax myrtle	*Myrica cerifera*	FAC	0.00	0.00	0.00	1.25	1.25	1.25	**1.25**
Coco plum	*Chrysobalanus icaco*	FACW	0.00	0.00	0.00	0.00	1.00	1.00	**1.25**
Sweet gum	*Liquidambar styraciflua*	FACW	0.00	0.50	0.50	0.00	1.00	1.00	**1.00**
Sweet bay	*Magnolia virginiana*	OBL	0.00	1.25	1.25	0.50	0.50	1.00	**1.00**
Java plum *	*Syzgium cumini*	FAC	0.00	0.00	0.00	0.00	0.50	0.75	**1.00**
Buttonbush	*Cephalanthus occidentallis*	OBL	0.00	0.00	0.50	0.50	1.25	1.00	**0.50**
Strangler fig	*Ficus aurea*	FAC	0.00	0.00	0.00	0.50	0.50	0.50	**0.50**
Earleaf acacia *	*Acacia auriculiformis*	FAC	11.67	0.00	0.25	0.00	0.00	0.50	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	11.67	0.00	0.00	0.00	0.00	0.50	**0.00**
Melaleuca *	*Melaleuca quinquenervia*	FAC	0.00	0.00	0.00	0.00	0.00	0.50	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.50	0.00	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	25.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Brazilian pepper *	*Schinus terebinthifolius*	FAC	26.67	0.00	0.00	0.00	0.00	0.00	**0.00**
Plant Total			95.67%	55.25%	61.75%	73.75%	76.25%	82.25%	**82.25%**
Open Total			43.33%	44.75%	38.25%	26.25%	23.75%	17.75%	**17.75%**

Table 3-6

Percent cover for the vegetation species identified within the overstory / understory and herbaceous strata for Transect T-6.

Common Name	*Scientific Name*	SFWMD Status	Baseline % Cover	Time Zero % Cover	1st Annual % Cover	2nd Annual % Cover	3rd Annual % Cover	4th Annual % Cover	5th Annual % Cover
Herbaceous									
Redtop panicum	*Panicum rigidulum*	FACW	0.00	0.00	0.00	2.00	2.00	5.00	**5.00**
Swamp fern	*Blechnum serrulatum*	FACW	5.00	17.00	9.25	5.25	4.75	4.75	**4.50**
Coinwort	*Centella asiatica*	FACW	0.00	2.50	3.75	0.00	2.50	0.00	**3.75**
Laurel oak	*Quercus laurifolia*	FACW	0.00	0.75	0.50	2.50	3.75	3.50	**3.75**
Climbing hempweed	*Mikania scandens*	NL	0.00	0.00	1.00	0.50	0.50	1.75	**3.25**
Cabbage palm	*Sabal palmetto*	FAC	0.00	0.00	0.25	2.00	2.50	2.50	**3.25**
Red maple	*Acer rubrum*	FACW	0.00	0.00	0.50	1.75	2.50	2.25	**3.00**
Bushy beardgrass	*Andropogon glomeratus*	FACW	0.00	2.00	1.25	8.75	12.50	12.25	**7.75**
Fireweed	*Erechtites hieraciifolius*	FAC	0.00	0.00	0.00	0.00	0.00	0.00	**3.00**
American cupscale	*Sacciolepis striata*		0.00	0.00	0.00	0.00	0.00	0.75	**2.50**
Alabama swamp sedge	*Cyperus ligularis*	FACW	0.00	1.50	2.50	2.50	2.25	2.25	**2.25**
Water sprite **	*Ceratopteris thalictroides*	NL	0.00	0.00	0.00	0.00	0.00	0.50	**2.00****
Marsh pennywort	*Hydrocotyle umbellata*	FACW	0.00	0.00	0.00	0.75	1.25	1.25	**2.00**
Groundsel tree	*Baccharis glomeruliflora*	FAC	0.00	0.00	0.00	0.00	0.00	0.75	**1.50**
Dog fennel ***	*Eupatorium capillifolium*	FAC	0.00	0.50	1.50	0.00	0.25	1.75	**1.5*****
Ironweed	*Vernonia gigantea*	FACW	0.00	0.00	0.50	0.00	2.00	1.50	**1.50**
Beauty berry	*Callicarpa americana*	UPL	0.00	0.25	0.75	0.00	0.50	0.75	**1.25**
Possum grape	*Cissus verticillata*	- - -	0.00	5.00	3.25	0.50	0.25	0.75	**1.25**
Fimbry	*Fimbristylis sp.*	OBL	0.00	0.00	0.00	0.00	0.00	0.00	**1.25**
Yerba de tajo	*Eclipta alba*	FACW	0.00	0.00	0.50	0.25	0.00	0.75	**1.00**
Goldenrod	*Solidago fistulosa*	FACW	0.00	0.00	0.00	0.00	0.00	1.00	**1.00**
Bog hemp	*Boehmeria cylindrica*	OBL	0.00	0.00	0.00	0.00	0.00	0.50	**0.75**
Buttonbush	*Cephalanthus occidentalis*	OBL	0.00	0.50	0.00	2.00	0.75	0.75	**0.75**
Dayflower	*Commelina diffusa*	FACW	0.00	0.00	0.00	0.00	0.00	0.75	**0.75**
Flatsedge	*Cyperus odoratus*	FACW	0.00	0.00	0.00	1.00	0.00	0.00	**0.75**
Panic grass	*Dicanthelium erectifolium*	OBL	0.00	0.00	2.00	0.00	0.75	0.75	**0.75**
Wild coco	*Eulophia alta*	FACW	0.00	0.00	0.00	0.00	0.00	0.00	**0.75**
St. John's wort	*Hypericum myrtifolium*	FACW	0.00	0.00	0.00	1.50	3.00	1.75	**0.75**
Myrsine	*Myrsine cubana*	FAC	0.00	2.00	1.25	0.00	0.00	0.25	**0.75**
Greenbrier	*Smilax sp.*	- - -	0.00	0.00	0.75	1.50	2.00	1.00	**0.75**
Blue maidencane	*Amphicarpum muhlenbergianum*	FACW	0.00	0.00	0.00	0.75	0.75	0.75	**0.50**
Virginia creeper	*Parthenocissus quinquefolia*	NL	0.00	0.00	0.25	1.00	0.75	1.00	**0.50**
Poison ivy	*Toxicodendron radicans*	NL	0.00	0.00	0.50	0.75	0.75	0.00	**0.50**
Common ironweed	*Vernonia angustifolia*	UPL	0.00	0.00	0.00	0.00	0.00	1.25	**0.50**
Broomsedge	*Andropogon virginicus*	FAC	0.00	0.00	3.50	5.75	11.00	8.00	**0.25**
Beggar's lice **	*Desmodium sp.*	- - -	0.00	0.00	0.00	0.00	0.00	0.50	**0.25****
Old World climbing fern *	*Lygodium microphyllum*	NL	23.33	0.25	0.25	0.00	0.75	1.25	**0.25***
Winged sumac	*Rhus copallina*	UPL	0.00	1.00	0.00	0.00	0.50	0.50	**0.25**
Earleaf acacia *	*Acacia auriculiformis*	FAC	0.00	0.25	0.00	0.00	0.00	0.00	**0.00**
Pepper vine	*Ampelopsis arborea*	NL	0.00	0.25	3.75	0.50	0.00	1.00	**0.00**
Shoebutton ardisia *	*Ardisia elliptica*	FAC	0.00	3.00	2.75	1.50	0.00	0.00	**0.00**
Spanish needles	*Bidens alba*	OBL	0.00	0.00	0.00	0.00	0.00	0.50	**0.00**
Spurge	*Chamaesyce sp.*	- - -	0.00	1.25	0.00	0.00	0.00	0.25	**0.00**
Thistle	*Cirsium horridulum*	UPL	0.00	0.00	3.75	0.00	0.75	0.00	**0.00**
Sawgrass	*Cladium jamaicense*	OBL	0.00	0.00	1.25	0.00	0.00	0.00	**0.00**
Horseweed	*Conyza canadensis*	NL	0.00	0.00	1.00	0.00	0.00	0.00	**0.00**
Flatsedge	*Cyperus haspan*	OBL	0.00	0.00	0.00	1.25	1.25	0.75	**0.00**
Flatsedge	*Cyperus polystachyos*	FACW	0.00	1.00	1.00	0.00	0.75	0.00	**0.00**
Sedge	*Cyperus sp.*	- - -	0.00	6.25	3.75	23.75	3.75	0.00	**0.00**
Coastal cockspur	*Echinochloa walteri*	OBL	0.00	0.00	0.00	0.00	1.00	0.00	**0.00**
Dahoon holly	*Ilex cassine*	OBL	0.00	0.00	0.00	0.00	0.00	0.50	**0.00**
Cogongrass *	*Imperata cylindrica*	UPL	0.00	0.00	0.50	0.00	0.00	0.00	**0.00**
Shore rush	*Juncus marginatus*	FACW	0.00	0.00	0.00	0.00	0.75	0.00	**0.00**
False pimpernel	*Lindernia anagallidea*	FACW	0.00	0.75	0.00	0.00	0.00	0.00	**0.00**
Ludwigia	*Ludwigia octovalvis*	OBL	0.00	1.50	0.00	0.00	0.00	0.00	**0.00**
Primrose willow *	*Ludwigia peruviana*	OBL	0.00	0.25	0.00	0.00	0.50	0.00	**0.00**
Wax myrtle	*Myrica cerifera*	FAC	0.00	0.00	0.00	0.00	0.75	0.00	**0.00**
Guinea grass *	*Panicum maximum*	UPL	0.00	0.00	0.00	0.00	0.00	1.75	**0.00**
Shiny coffee	*Psychotria nervosa*	FAC	0.00	2.50	2.50	0.25	0.00	0.00	**0.00**
Mock Bishop's weed	*Ptilimnium capillaceum*	FACW	0.00	0.00	0.25	0.00	0.00	0.00	**0.00**
Downy rosemyrtle *	*Rhodomyrtus tomentosa*	FAC	0.00	0.25	0.00	1.00	1.00	0.00	**0.00**
Nut rush	*Scleria reticularis*	FACW	0.00	0.25	0.00	2.50	3.00	6.75	**0.00**
Climbing cassia *	*Senna pendula*	NL	0.00	0.00	0.50	0.00	0.00	0.00	**0.00**
Indian hemp	*Sida rhombifolia*	UPL	0.00	0.50	0.00	0.00	0.00	0.00	**0.00**
Caesar weed *	*Urena lobata*	UPL	0.00	1.00	1.50	0.00	0.75	0.75	**0.00**
Muscadine grape vine	*Vitis rotundifolia*	NL	10.00	2.50	1.00	0.00	0.75	0.75	**0.00**
Plant Total			38.33%	54.75%	57.50%	71.75%	73.00%	76.00%	**66.00%**
Open Total			61.67%	45.25%	42.50%	30.25%	27.00%	24.00%	**34.00%**

* = FLEPPC Category I or II ** = Not Native *** = Native but requires treatment

A total of 29 species were recorded in the herbaceous sampling plots along T-1 during the Fifth Annual Monitoring Event. Herbaceous coverage averaged 77.00% mean cover. Leather fern (*Acrostichum danaeifolium*, 33.00%) was the dominant plant species in the herbaceous stratum, followed by smartweed (*Polygonum punctatum*, 11.00%). Water spangles (*Salvinia minima*), a seasonal category I exotic species that floats on top of the water and has the ability to spread quickly during the wet season by overland sheet-flow, has been reduced from 2.40% to 0.60% coverage since the Fourth Annual Monitoring Event. Water lettuce (*Pistia stratiotes*, 1.00%) was the only other exotic species recorded in the study plots along Transect T-1; this species was not present in previous monitoring events. Climbing hempweed (*Mikania scandens*, 1.60%) and white vine (*Sarcostemma clausum*, 0.60%) were the only vines recorded in the study plots. Although not exotic species, consideration should be given for future maintenance to target climbing hempweed and white vine, to ensure these opportunistic native vines do not out-compete desirable native groundcover and/or cover the sub-canopy.

Transect T-2

Transect T-2 is located near the southeast corner of the site, extends south to southeast, and ends near the bank of the Gordon River. Cypress (27.50%), pond apple (14.50%), groundsel tree (*Baccharis glomeruliflora*, 6.75%) and white mangrove (*Laguncularia racemosa*, 6.25%) were the dominant plant species recorded in the overstory/understory stratum along T-2. Total coverage in the stratum averaged 68.75%, which is an increase of 8.75% since the Fourth Annual Monitoring Event. No exotic or nuisance species were recorded in the overstory/understory stratum.

A total of 35 species totaling 100.00% mean cover were recorded in the herbaceous sampling plots during the Fifth Annual Monitoring Event. This represents a 5.00% increase since the Fourth Annual Monitoring Event. Leather fern (32.50%), swamp lily (*Crinum americanum*, 14.50%), sand cordgrass (*Spartina bakeri*, 11.25%), and water spangles (6.25%) are the dominant species in the herbaceous stratum. Although not located within any of the study plots, small scattered patches of torpedo grass,

Caesarweed (*Urena lobata*), cattails (*Typha domingensis*) and water lettuce (*Pistia stratiotes*) were observed in the vicinity of transect T-2. The exotic species Old World climbing fern (*Lygodium microphyllum*) and the non-native water sprite (*Ceratopteris thalictroides*) were both present with a coverage of 0.50%. All exotic species will continue to be targeted for eradication during the scheduled maintenance events.

Transect T-3

Transect T-3 is located along the southern boundary of the wetland mitigation area and extends primarily west to east. Carolina willow (*Salix caroliniana*, 19.67%), groundsel tree (9.00%), laurel oak (*Quercus laurifolia*, 8.33%), and red maple (6.67%) were the dominant plant species recorded in the overstory/understory stratum along T-3. During the Fourth Annual Monitoring Event a small amount of Brazilian pepper (0.67%), primrose willow (0.33%) and climbing cassia (0.33%) were noted; these exotic species were treated during the maintenance. There was no exotic vegetation present during the Fifth Annual Monitoring Event.

A total of 32 species totaling 86.70% mean cover were recorded in the herbaceous sampling plots during the Fifth Annual Monitoring Event. This represents an increase in total plant coverage of 5.04% since October 2012. Marsh fern (*Thelypteris palustris*, 30.00%), sand cordgrass (11.67%), water spangles (6.67%) and water sprite (5.00%) were the dominant species recorded in the study plots. It is suggested that coverage by exotic and nuisance plant species, such as water spangles and Old World climbing fern (0.33%) be reduced to ensure continued recruitment of desirable native plants. These species will be specifically targeted for eradication during the next scheduled maintenance event. The vines climbing hempweed (2.25%) and white vine (2.00%) were also present in the study plots and should be maintained as necessary.

Transect T-4

Transect T-4 is located near the north-central boundary of the mitigation area and extends west to east. Pond apple (32.00%) and cabbage palm (8.00%) were the dominant plant species recorded in the overstory/understory stratum. Coverage by desirable species along T-4 increased only slightly since the Fourth Annual Monitoring Event. The only exotic species present were queen palm (*Syagrus romanzoffiana,* 0.80%) and climbing cassia (0.20%).

A total of 25 species were recorded in the herbaceous sampling plots during the Fifth Annual Monitoring Event totaling 57.80% mean cover, a slight reduction since the Fourth Annual Monitoring Event when the total mean cover was 65.60%. Swamp fern (*Blechnum serrulatum*, 12.00%) comprised the greatest mean coverage in the herbaceous sampling plots, followed by leather fern (8.60%) and marsh fern (8.00%). Coverage by nuisance and exotic species included Caesarweed (0.80%), balsam apple (*Momordica charantia,* 0.40%) and dog fennel (*Eupatorium capillifolium*, 0.20%). The total coverage of exotic species was reduced from 9.20% during the Fourth Annual Monitoring Event. White vine (1.20%), climbing hempweed (1.20%) and poison ivy (*Toxicodendron radicans*, 0.20%) were also present.

Although not technically located within the conservation easement, the upland preserve area west of transect T-4 contains patches of Guineagrass (*Panicum maximum*) and there is a mix of scattered exotics such as rosary pea, Old World climbing fern, dog fennel, earleaf acacia (*Acacia auriculiformis*) and downy rosemyrtle (*Rhodomyrtus tomentosa*) that will continue to provide a seed source for the adjacent wetland conservation easement if left untreated.

Transect T-5

Transect T-5 is located near the northwest corner of the mitigation area and generally extends southeast through a mixed wetland hardwood community. Laurel oak (31.67%), coco plum (*Chrysobalanus icaco,* 13.33%), slash pine (*Pinus elliottii,* 10.33%), and cabbage palm (9.00%) were the dominant plant species recorded in the

overstory/understory stratum. Coverage by laurel oak increased 3.34% since the Fourth Annual Monitoring Event. Total coverage in the stratum averaged 86.00%, compared to 42.67% during the Time Zero Monitoring Event. The exotic Senegal date palm (*Phoenix reclinata*, 1.67%) was the only exotic species recorded in the canopy/sub-canopy of T-5. It has been present since the First Annual Monitoring Event and should be removed/treated, as it is listed as a Category II invasive plant species by the Florida Exotic Pest Plant Council.

A total of 17 species were recorded in the herbaceous sampling plots along Transect T-5 during the Fifth Annual Monitoring Event. Marsh fern (13.33%) and swamp fern (10.00%) were the dominant ground cover along T-5, followed by poison ivy (6.67%) and greenbrier (5.00%). This represents almost an eight-percent increase in vines over the past year. Although these species represent native vines, consideration should be given in the coming years to potentially treat some of the vines before they reach nuisance levels. Queen palm (*Syagrus romanzoffiana*, 0.33%) was the only listed invasive species (Category II) found within the herbaceous plots along the transect. It should be targeted for eradication during upcoming maintenance events. Climbing hempweed and Spanish needles were noted to have been reaching nuisance levels during the Fourth Annual Monitoring Event. Treatment of these species was evident over the past year, and they now represent only 0.67% and 1.00% coverage, respectively.

Transect T-6

Transect T-6 is located near the southwest corner of the mitigation area and extends from north to south through a mixed forested wetland community. Laurel oak (31.25%), red maple (20.25%), myrsine (15.00%), and cabbage palm (5.25%) were the dominant plant species recorded in the overstory/understory stratum along T-6. Total coverage in the stratum averaged 82.25%, which represents the same coverage level as last year. Java plum (*Syzgium cumini*, 1.00%) was the only invasive exotic noted in the stratum during the Fifth Annual Monitoring Event. Previous monitoring event had demonstrated low levels of java plum, earleaf acacia, shoebutton ardisia, and melaleuca so the maintenance

events have been successful at decreasing both coverage and diversity of Category I and II invasive exotics along the transect.

A total of 38 species were recorded in the herbaceous sampling plots during the Fifth Annual Monitoring Event totaling 66.00% cover. This represents a 10.00% decrease since October 2012. Bushy beardgrass (*Andropogon glomeratus*, 7.75%), redtop panicum (*Panicum rigidulum*, 5.00%) and swamp fern (4.50%) contributed to the dominant cover. Exotic and/or potential nuisance species recorded in the herbaceous study plots along T-6 included low levels of Old World climbing fern (0.25%) and dog fennel (1.50%). This represents a significant decrease in the diversity and coverage by nuisance and exotic species since the Baseline monitoring, as detailed in the Table 3-6.

Areas outside of the Transects and/or Upland Buffers

Qualitative evaluations of exotic and nuisance species located outside of the monitoring transects were also made during the Fifth Annual Monitoring Event. Overall, the site is meeting success criteria with less than 5% coverage by exotic species. It is clear that a significant level of maintenance has gone into reducing coverage by exotic and nuisance species. However, it is recommended that those areas at the development/preserve interface continue to be targeted for exotic/nuisance control. Scattered queen palm, shoebutton ardisia, Caesarweed, downy rosemyrtle, rosary pea, Old World climbing fern, climbing cassia, wild balsam apple, and Guineagrass are found in these areas and they will provide a continued seed source for the adjacent mitigation area. Additional species to target in the wetlands that were not always quantitatively represented in the transects include larger patches of water spangles and water lettuce in the open water areas in close proximity to the Gordon River on the east side of the mitigation area.

3.2 Hydrologic Data

Due to the monitoring event taking place in November, water levels in the mitigation area had receded from the high levels of inundation experienced during the summer months. As such, the soil conditions were only saturated at the majority of the study plots along Transects T-1 through T-6. Although above ground water levels were still observed near the east-central portion of the mitigation area, plot 4 of Transect 1 was the only recorded inundation within the study plots. Dry soils were recorded in only two study plots (Transect 4, Plot 1 and Transect 5, Plot 3) which are located in uplands, adjacent to the wetland mitigation areas. See **Figure 3-1** for a representation of water levels along the transects.

A piezometer was installed between Transects 2 and 3 on May 3, 2012 to provide continual water level readings (above and below ground) in the mitigation area (Wetland E). The data obtained from this well between November 2012 – November 2013 illustrates the level of water inundation over the past year (**Figure 3-2)**. There is a positive correlation between the water levels observed within the study plots, the well data, and the monthly rainfall (**Figure 3-3**) for the area. Water levels within the Freedom Park mitigation area continue to support an appropriate wetland vegetation community, as substantiated by the appropriateness of the regional indicator status of the dominant vegetation species. The majority of the vegetation represented appropriate facultative (FAC), facultative wet (FACW), or obligate (OBL) species.

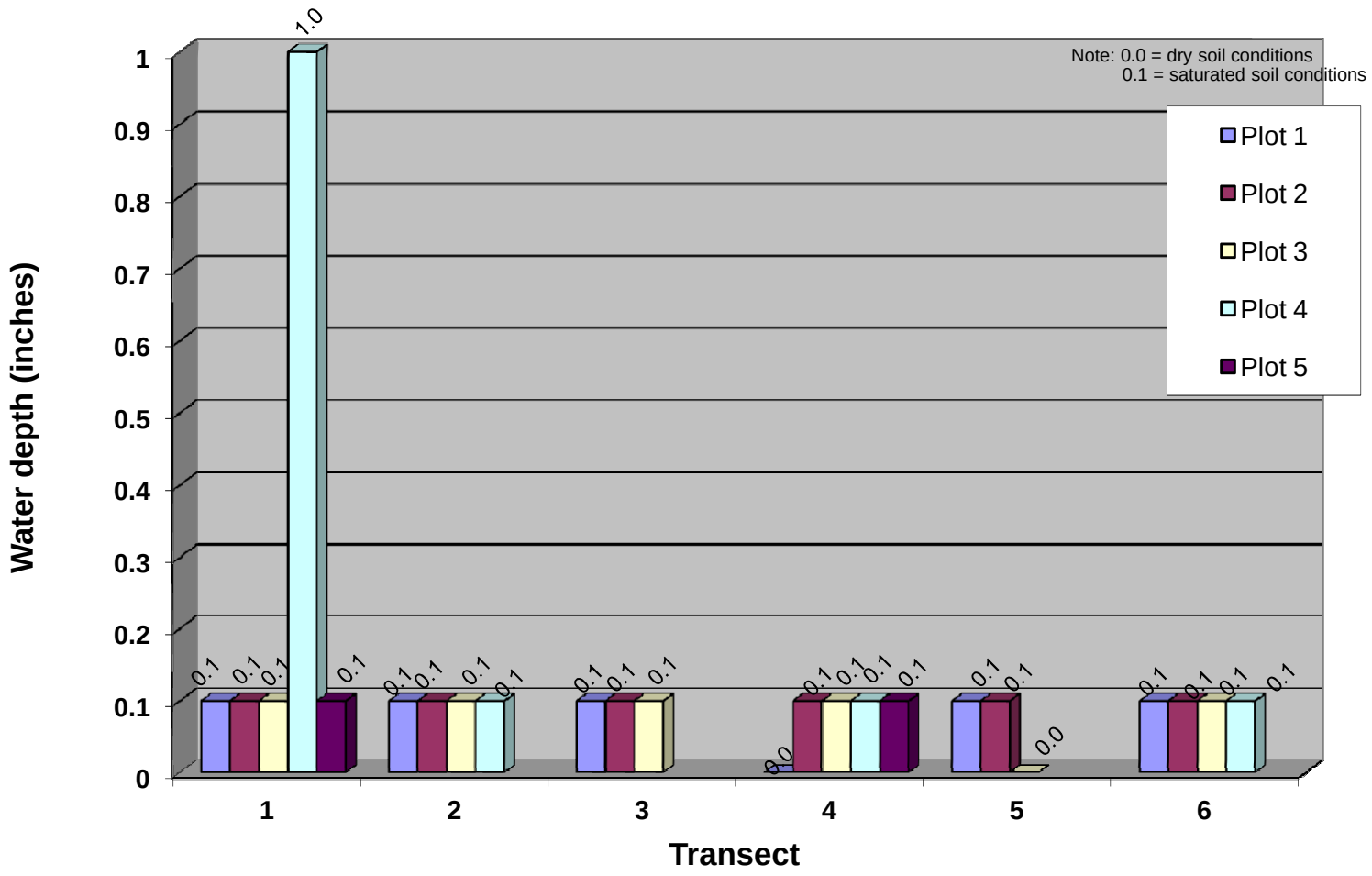


Figure 3-1. Water depths recorded at the Freedom Park study plots during the Fifth Annual Wetland Monitoring Event, November 21, 2013.

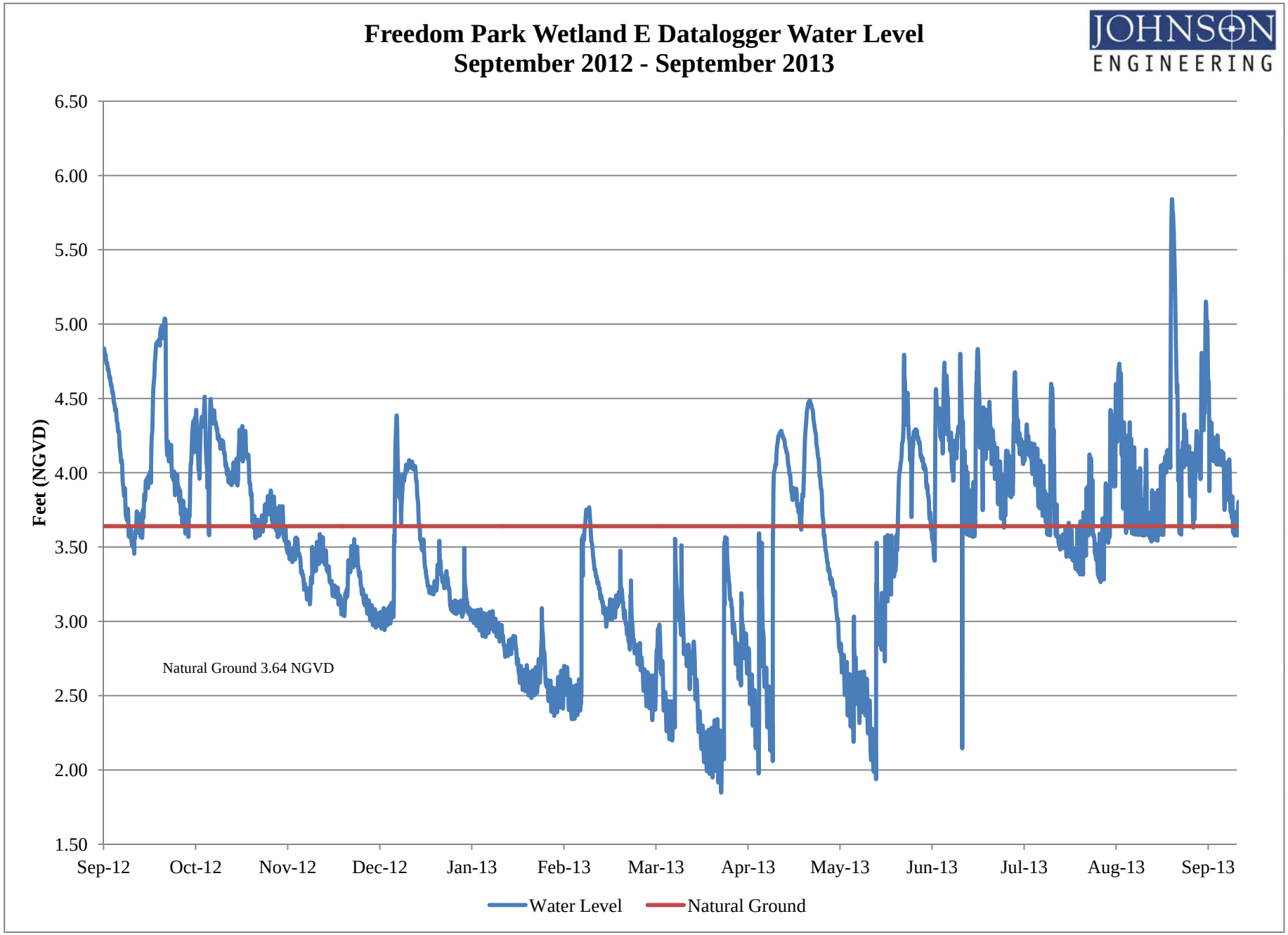


Figure 3-2. Water Levels within the Mitigation Area taken from the Wetland E Datalogger

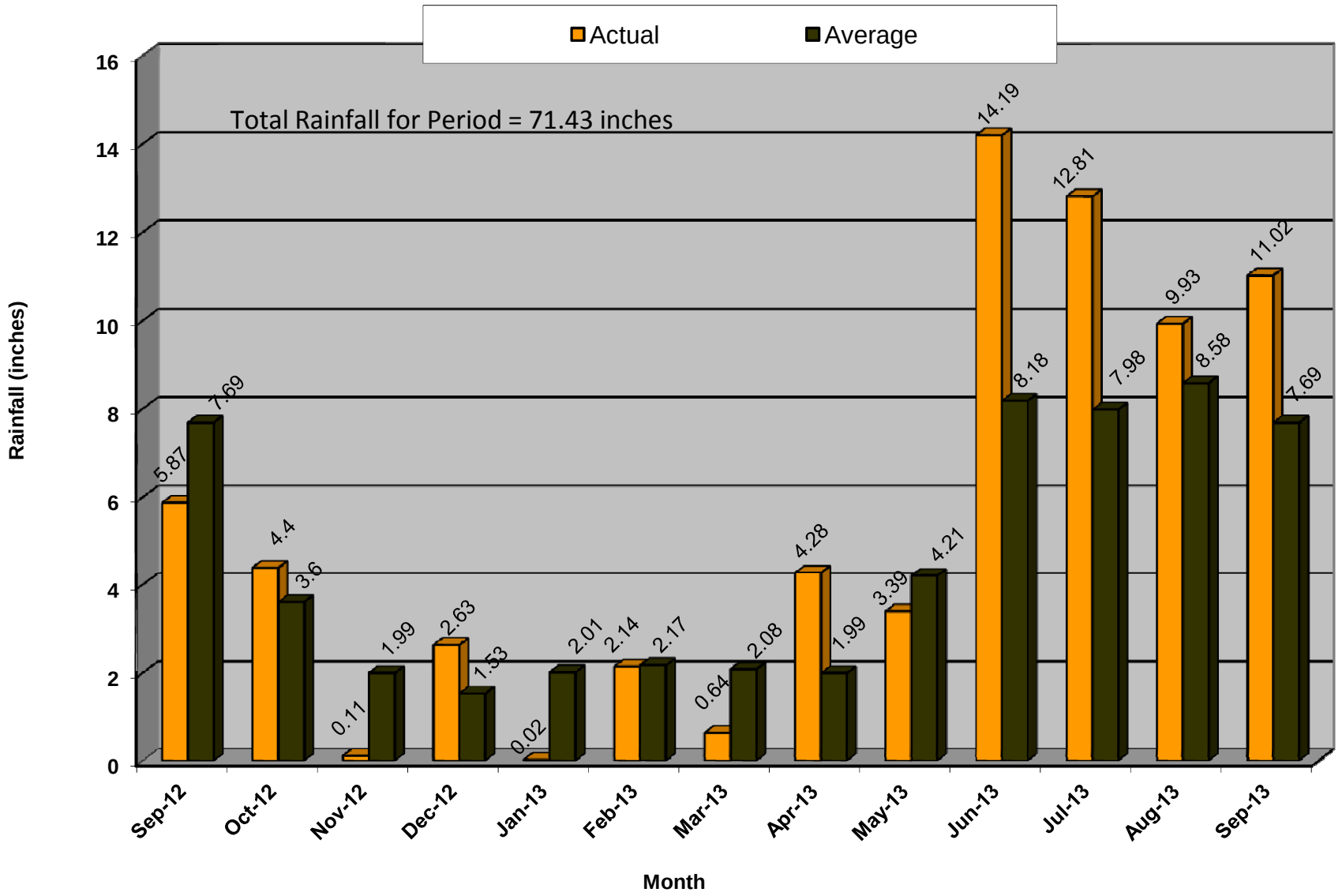


Figure 3-3. Monthly rainfall data obtained from SFWMD Station NAPCON_R.

3.3 Wildlife Observed

Table 3-7 lists the wildlife species observed, or evidence thereof, during the Fifth Annual Monitoring Event. It is anticipated a greater number and diversity of wildlife utilize the mitigation area seasonally or year round, as the species recorded represent only those observed during the time of the monitoring event.

Table 3-7. Wildlife Species Observed during the Fifth Annual Monitoring Event, Freedom Park

Birds	***Common Name***	***Scientific Name***
	Anhinga	*Anhinga anhinga*
	Bald eagle	*Haliaeetus leucocephalus*
	Blue jay	*Cyanocitta cristata*
	Gray catbird	*Dumetella carolinensis*
	Great blue heron	*Ardea herodias*
	Great egret	*Ardea alba*
	Little blue heron	*Egretta caerulea*
	Mockingbird	*Mimus polyglottos*
	Northern cardinal	*Cardinalis cardinalis*
	Pileated woodpecker	*Dryocopus pileatus*
	Red-bellied woodpecker	*Melanerpes carolinus*
	Red-shouldered hawk	*Buteo lineatus*
	White ibis	*Eudocimus albus*
	Wood stork	*Mycteria americana*
Reptiles & Amphibians	***Common Name***	***Scientific Name***
	Brown anole	*Anolis sagrei sagrei*
	American alligator	*Alligator mississippiensis*
	Green treefrog	*Hyla cinerea*
	Water snake	*Nerodia sp.*
Mammals	***Common Name***	***Scientific Name***
	Bobcat	*Lynx rufus*
	Eastern cottontail rabbit	*Sylvilagus floridanus*
	Gray squirrel	*Sciurus carolinensis*
	Nine-banded armadillo	*Dasypus novemcinctus*
	Raccoon	*Procyon lotor*
Fish	***Common Name***	***Scientific Name***
	Mosquitofish	*Gambusia holbrooki*
Crustaceans	***Common Name***	***Scientific Name***
	Giant ramshorn snail	*Marisa cornuarietis*
	Apple snail	*Pomacea paludosa*

4.0 SUMMARY

The exotic species diversity and coverage were quite high during the baseline monitoring event, with some areas so dense with Brazilian pepper, downy rosemyrtle and shoebutton ardisia that they were impassible. Through quarterly maintenance events over the past five years, the onsite mitigation area for Freedom Park appears to have met the success criteria of less than overall 5% cover by exotic species. The wetland mitigation area has also demonstrated a significant increase in recruitment of native vegetation during the five-year monitoring period, the most notable species including swamp lily, pond apple, red maple, and leather fern. A wide variety of wildlife utilizes the mitigation area throughout the year, as demonstrated by those species observed during monitoring events.

Although the mitigation area has met success criteria, routine maintenance events will be required to ensure it continues to remain within compliance guidelines. Species such as Old World climbing fern and climbing cassia are found in low concentrations, scattered along the northern limits of the preserve. These species can spread rapidly and create problem conditions if not treated on a routine basis. Other scattered invasive species include earleaf acacia, Brazilian pepper, shoebutton ardisia, downy rosemyrtle, Caesarweed, queen palm, and java plum. Pockets of water spangles and water lettuce persist in areas of open water in close proximity to the Gordon River at over 5% cover. Without treatment of these species in the River itself, it will be difficult to completely control them within the mitigation area, as it receives flows in from the River. However, continued maintenance along the northeastern edge of the preserve and under the boardwalk for these species will help control their spread to other portions of the mitigation area.

Overall, the mitigation is well below the 5% allowable cover for mitigation success, the wetland vegetation is healthy and continues to naturally recruit, and the mitigation area is used by a wide variety of wetland dependent species. Collier County is committed to the long-term maintenance of Freedom Park and based upon success obtained during the first five years of maintenance and monitoring, a request to discontinue monitoring and agency-sign-off is being made at this time. Please contact Laura Herrero at 461-2464 to schedule a site inspection at the convenience of District staff.

5.0 REFERENCES CITED

Florida Department of Environmental Protection, Chapter 62-340.450 Vegetative Index.

Mohlenbrock, Robert H. 1993. Wetland and Transition Plants of Peninsular Florida. Wetland Training Institute, Inc. 61 pp.

APPENDIX A

National Wetland Inventory Regional Indicators For Plant Species as Defined by Wetlands and Transition Plans of Peninsular Florida (Mohlenbrock, 1993)

National Wetlands Inventory Regional Indicators for plant species as defined by Wetlands and Transition Plants of Peninsular Florida (Mohlenbrock, 1993).

OBL - Obligate Wetland occur almost always (estimated probability >99%) under natural conditions in wetlands.

FACW - Facultative Wetland usually occur in wetlands (estimated probability 67% - 99%), but occasionally found in non-wetlands.

FAC - Facultative species are equally likely to occur in wetlands or non-wetlands (estimated probability 34%- 66%).

FACU - Facultative Upland usually occur in non-wetlands (estimated probability 67% - 99%), but occasionally found in wetlands (estimated probability 1% - 33%).

UPL - Obligate Upland occur almost always (estimated probability >99%) under natural conditions in non-wetlands.

APPENDIX B

Monitoring Photo Documentation
Fifth Annual Monitoring Event

Transect 1, Freedom Park Mitigation Area, Fifth Annual Monitoring Event, November 21, 2013



Panoramic Photograph from Plot 1 toward Plot 5



Plot 2



Plot 3



Plot 4



Panoramic Photograph from Plot 5 toward Plot 1

B-1

Transect 2, Freedom Park Mitigation Area, Fifth Annual Monitoring Event, November 21, 2013



Panoramic Photograph from Plot 1 toward Plot 4



Plot 2



Plot 3



Panoramic Photograph from Plot 4 toward Plot 1

Transect 3, Freedom Park Mitigation Area, Fifth Annual Monitoring Event, November 21, 2013



Panoramic Photograph from Plot 1 toward Plot 3



Plot 2



Panoramic Photograph from Plot 3 toward Plot 1

Transect 4, Freedom Park Mitigation Area, Fifth Annual Monitoring Event, November 21, 2013



Panoramic Photograph from Plot 1 toward Plot 5



Plot 2



Plot 3



Plot 4



Panoramic Photograph from Plot 5 toward Plot 1

Transect 5, Freedom Park Mitigation Area, Fifth Annual Monitoring Event, November 21, 2013



Panoramic Photograph from Plot 1 toward Plot 3



Plot 2



Panoramic Photograph from Plot 3 toward Plot 1

Transect 6, Freedom Park Mitigation Area, Fifth Annual Monitoring Event, November 21, 2013



Panoramic Photograph from Plot 1 toward Plot 4



Plot 2



Plot 3



Panoramic Photograph from Plot 4 toward Plot 1

APPENDIX C

Monitoring Data Sheets

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
Overstory/Understory Stratum				
1	1	*Open*	53.00	
1	1	*Ludwigia peruviana*	15.00	
1	1	*Annona glabra*	10.00	
1	1	*Fraxinus caroliniana*	10.00	Saturated Soils
1	1	*Acer rubrum*	7.00	
1	1	*Senna pendula*	3.00	
1	1	*Sabal palmetto*	2.00	
1	2	*Taxodium sp.*	25.00	
1	2	*Open*	24.00	
1	2	*Acer rubrum*	20.00	
1	2	*Annona glabra*	15.00	Saturated Soils
1	2	*Roystonea regia*	10.00	
1	2	*Sambucus canadensis*	2.00	
1	2	*Ardisia elliptica*	2.00	
1	2	*Fraxinus caroliniana*	2.00	
1	3	*Open*	30.00	
1	3	*Taxodium sp.*	30.00	
1	3	*Sabal palmetto*	15.00	
1	3	*Acer rubrum*	10.00	Saturated Soils
1	3	*Annona glabra*	3.00	
1	3	*Sambucus canadensis*	2.00	
1	3	*Ficus aurea*	5.00	
1	3	*Persea palustris*	5.00	
1	4	*Open*	40.00	
1	4	*Salix caroliniana*	25.00	
1	4	*Sabal palmetto*	10.00	
1	4	*Annona glabra*	15.00	1.0"
1	4	*Ludwigia octovalvis*	2.00	
1	4	*Baccharis glomeruliflora*	5.00	
1	4	*Acer rubrum*	3.00	
1	5	*Open*	62.00	
1	5	*Sabal palmetto*	15.00	Saturated Soils
1	5	*Quercus laurifolia*	15.00	
1	5	*Myrica cerifera*	8.00	
Herbaceous Stratum				
1	1	*Acrostichum danaeiifolium*	60.00	
1	1	*Polygonum punctatum*	15.00	
1	1	*Boehmeria cylindrica*	10.00	
1	1	*Hydrocotyle umbellata*	10.00	
1	1	*Cissus verticillata*	7.00	Saturated Soils
1	1	*Panicum dichotomiflorum*	3.00	
1	1	*Sarcostemma clausum*	2.00	
1	1	*Acer rubrum*	1.00	
1	1	*Phyla nodiflora*	1.00	
1	1	*Ampelopsis arborea*	1.00	
1	2	*Open*	55.00	
1	2	*Acrostichum danaeiifolium*	20.00	
1	2	*Thelypteris palustris*	10.00	
1	2	*Canna flaccida*	5.00	
1	2	*Boehmeria cylindrica*	3.00	Saturated Soils
1	2	*Cissus verticillata*	3.00	
1	2	*Ardisia elliptica*	1.00	
1	2	*Ampelopsis arborea*	1.00	
1	2	*Sambucus nigra*	2.00	
1	3	*Acrostichum danaeifolium*	60.00	
1	3	*Open*	25.00	Saturated Soils
1	3	*Thelypteris palustris*	10.00	
1	3	*Boehmeria cylindrica*	5.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
1	4	*Open*	23.00	
1	4	*Polygonum punctatum*	15.00	
1	4	*Pontederia cordata*	8.00	
1	4	*Ludwigia octovalvis*	8.00	
1	4	*Vigna luteola*	8.00	
1	4	*Eclipta alba*	7.00	
1	4	*Panicum dichotomiflorum*	6.00	
1	4	*Pistia stratiotes*	5.00	1.0"
1	4	*Cissus verticillata*	4.00	
1	4	*Pluchea odorata*	4.00	
1	4	*Salvinia minima*	3.00	
1	4	*Commelina diffusa*	3.00	
1	4	*Mikania scandens*	3.00	
1	4	*Lemna minor*	2.00	
1	4	*Sarcostemma clausum*	1.00	
1	5	*Acrostichum danaeiifolium*	25.00	
1	5	*Polygonum punctatum*	25.00	
1	5	*Open*	22.00	
1	5	*Mikania scandens*	5.00	
1	5	*Hydrocotyle umbellata*	4.00	
1	5	*Boehmeria cylindrica*	4.00	
1	5	*Commelina diffusa*	4.00	Saturated Soils
1	5	*Hypericum sp.*	3.00	
1	5	*Parietaria floridana*	3.00	
1	5	*Ludwigia repens*	2.00	
1	5	*Ludwigia octovalvis*	1.00	
1	5	*Ammannia coccinea*	1.00	
1	5	*Rhynchospora inundata*	1.00	
Overstory/Understory Stratum				
2	1	*Taxodium sp.*	50.00	
2	1	*Open*	23.00	
2	1	*Annona glabra*	15.00	Saturated Soils
2	1	*Acer rubrum*	10.00	
2	1	*Baccharis glomeruliflora*	2.00	
2	2	*Taxodium sp.*	60.00	
2	2	*Open*	27.00	
2	2	*Acer rubrum*	7.00	Saturated Soils
2	2	*Annona glabra*	3.00	
2	2	*Sabal palmetto*	2.00	
2	2	*Ficus aurea*	1.00	
2	3	*Open*	46.00	
2	3	*Annona glabra*	30.00	
2	3	*Sabal palmetto*	10.00	Saturated Soils
2	3	*Baccharis glomeruliflora*	10.00	
2	3	*Baccharis angustifolia*	4.00	
2	4	*Open*	29.00	
2	4	*Laguncularia racemosa*	25.00	
2	4	*Baccharis glomeruliflora*	15.00	
2	4	*Annona glabra*	10.00	Saturated Soils
2	4	*Myrica cerifera*	8.00	
2	4	*Rhizophora mangle*	7.00	
2	4	*Quercus laurifolia*	3.00	
2	4	*Dalbergia ecastaphyllum*	3.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
Herbaceous Stratum				
2	1	*Salvinia minima*	25.00	Saturated Soils
2	1	*Acrostichum danaeifolium*	15.00	
2	1	*Thalia geniculata*	10.00	
2	1	*Crinum americanum*	8.00	
2	1	*Open*	6.00	
2	1	*Polygonum punctatum*	5.00	
2	1	*Scirpus californicus*	5.00	
2	1	*Commelina diffusa*	4.00	
2	1	*Boehmeria cylindrica*	3.00	
2	1	*Hydrocotyle umbellata*	3.00	
2	1	*Ceratopteris thalictroides*	2.00	
2	1	*Taxodium sp*	2.00	
2	1	*Lygodium microphyllum*	2.00	
2	1	*Hypericum sp.*	2.00	
2	1	*Mikania scandens*	2.00	
2	1	*Cissus verticillata*	2.00	
2	1	*Sarcostemma clausum*	1.00	
2	1	*Annona glabra*	1.00	
2	1	*Acer rubrum*	1.00	
2	1	*Thelypteris palustris*	1.00	
2	2	*Acrostichum danaeifolium*	90.00	Saturated Soils
2	2	*Sarcostemma clausum*	8.00	
2	2	*Boehmeria cylindrica*	3.00	
2	2	*Mikania scandens*	3.00	
2	2	*Hydrocotyle umbellata*	2.00	
2	2	*Baccharis glomeruliflora*	1.00	
2	3	*Crinum americanum*	50.00	Saturated Soils
2	3	*Spartina bakeri*	45.00	
2	3	*Iris hexagona*	7.00	
2	3	*Cissus verticillata*	5.00	
2	3	*Polygonum punctatum*	3.00	
2	3	*Panicum dichotomiflorum*	3.00	
2	3	*Boehmeria cylindrica*	2.00	
2	3	*Hypericum sp.*	2.00	
2	3	*Vigna luteola*	2.00	
2	3	*Annona glabra*	2.00	
2	3	*Eclipta alba*	1.00	
2	4	*Acrostichum danaeifolium*	25.00	Saturated Soils
2	4	*Panicum dichotomiflorum*	10.00	
2	4	*Pluchea odorata*	7.00	
2	4	*Andropogon glomeratus*	7.00	
2	4	*Hydrocotyle umbellata*	7.00	
2	4	*Rhynchospora divergens*	6.00	
2	4	*Sabal palmetto*	5.00	
2	4	*Bidens alba*	5.00	
2	4	*Eustachys glauca*	4.00	
2	4	*Annona glabra*	4.00	
2	4	*Hypericum sp.*	4.00	
2	4	*Vigna luteola*	3.00	
2	4	*Ammannia coccinea*	3.00	
2	4	*Mikania scandens*	3.00	
2	4	*Boehmeria cylindrica*	3.00	
2	4	*Fimbristylis sp.*	3.00	
2	4	*Rhizophora mangle*	2.00	
2	4	*Erechtites hieraciifolius*	1.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
Overstory/Understory Stratum				
3	1	*Open*	34.00	
3	1	*Baccharis glomeruliflora*	20.00	
3	1	*Acer rubrum*	20.00	
3	1	*Swietenia mahagoni*	6.00	
3	1	*Bursera simaruba*	6.00	Saturated Soils
3	1	*Quercus laurifolia*	5.00	
3	1	*Myrica cerifera*	4.00	
3	1	*Salix caroliana*	3.00	
3	1	*Sabal palmetto*	2.00	
3	2	*Salix caroliana*	55.00	
3	2	*Open*	21.00	
3	2	*Quercus laurifolia*	10.00	Saturated Soils
3	2	*Baccharis glomeruliflora*	7.00	
3	2	*Liquidambar styraciflua*	7.00	
3	3	*Open*	37.00	
3	3	*Sabal palmetto*	15.00	
3	3	*Myrica cerifera*	15.00	
3	3	*Quercus laurifolia*	10.00	
3	3	*Annona glabra*	8.00	Saturated Soils
3	3	*Ludwigia octovalvis*	5.00	
3	3	*Baccharis angustifolia*	5.00	
3	3	*Myrsine cubana*	4.00	
3	3	*Salix caroliana*	1.00	
Herbaceous Stratum				
3	1	*Open*	62.00	
3	1	*Muhlenbergia capillaris*	8.00	
3	1	*Andropogon glomeratus*	5.00	
3	1	*Sabal palmetto*	5.00	
3	1	*Bidens alba*	5.00	
3	1	*Baccharis glomeruliflora*	3.00	
3	1	*Acrostichum danaeifolium*	2.00	Saturated Soils
3	1	*Quercus laurifolia*	2.00	
3	1	*Mikania scandens*	2.00	
3	1	*Erechtites hieraciifolius*	2.00	
3	1	*Myrica cerifera*	2.00	
3	1	*Acer rubrum*	1.00	
3	1	*Parthenocissus quinquefolia*	1.00	
3	2	*Thelypteris palustris*	90.00	
3	2	*Acrostichum danaeifolium*	4.00	
3	2	*Blechnum serrulatum*	4.00	Saturated Soils
3	2	*Vitis sp.*	2.00	
3	2	*Lygodium microphyllum*	1.00	
3	3	*Spartina bakeri*	35.00	
3	3	*Ceratopteris thalictroides*	15.00	
3	3	*Ammannia coccinea*	10.00	
3	3	*Ludwigia octovalvis*	10.00	
3	3	*Cyperus surinamensis*	5.00	
3	3	*Setaria geniculata*	3.00	
3	3	*Pluchea odorata*	3.00	
3	3	*Sagittaria lancifolia*	3.00	
3	3	*Polygonum punctatum*	3.00	Saturated Soils
3	3	*Eclipta alba*	2.00	
3	3	*Cyperus odoratus*	2.00	
3	3	*Sabal palmetto*	2.00	
3	3	*Commelina diffusa*	2.00	
3	3	*Boehmeria cylindrica*	2.00	
3	3	*Vigna luteola*	2.00	
3	3	*Annona glabra*	2.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
Overstory/Understory Stratum				
4	1	*Open*	29.00	
4	1	*Quercus laurifolia*	25.00	
4	1	*Pinus elliottii*	20.00	
4	1	*Sabal palmetto*	15.00	DRY
4	1	*Acer rubrum*	6.00	
4	1	*Ilex cassine*	3.00	
4	1	*Cephalanthus occidentalis*	2.00	
4	2	*Open*	52.00	
4	2	*Sabal palmetto*	20.00	
4	2	*Quercus laurifolia*	7.00	
4	2	*Taxodium sp.*	5.00	
4	2	*Baccharis glomeruliflora*	5.00	Saturated Soils
4	2	*Persea palustris*	4.00	
4	2	*Acer rubrum*	3.00	
4	2	*Psychotria nervosa*	2.00	
4	2	*Ficus aurea*	2.00	
4	3	*Annona glabra*	60.00	
4	3	*Ficus aurea*	10.00	
4	3	*Acer rubrum*	10.00	
4	3	*Open*	5.00	Saturated Soils
4	3	*Sabal palmetto*	5.00	
4	3	*Taxodium sp.*	5.00	
4	3	*Myrsine cubana*	5.00	
4	4	*Annona glabra*	40.00	
4	4	*Open*	26.00	
4	4	*Fraxinus caroliniana*	12.00	
4	4	*Taxodium sp.*	5.00	
4	4	*Acer rubrum*	5.00	
4	4	*Syagrus romanzoffiana - potential*	4.00	Saturated Soils
4	4	*Myrsine cubana*	3.00	
4	4	*Psychotria nervosa*	2.00	
4	4	*Quercus laurifolia*	2.00	
4	4	*Senna pendula*	1.00	
4	5	*Annona glabra*	60.00	
4	5	*Taxodium sp.*	8.00	
4	5	*Baccharis glomeruliflora*	8.00	
4	5	*Acer rubrum*	5.00	
4	5	*Roystonea regia*	5.00	
4	5	*Baccharis angustifolia*	3.00	Saturated Soils
4	5	*Sambucus canadensis*	3.00	
4	5	*Salix caroliniana*	3.00	
4	5	*Fraxinus caroliniana*	3.00	
4	5	*Ficus aurea*	2.00	
Herbaceous Stratum				
4	1	*Open*	77.00	
4	1	*Cyperus sp.*	5.00	
4	1	*Bidens alba*	5.00	
4	1	*Urena lobata*	3.00	
4	1	*Erechtites hieraciifolius*	3.00	DRY
4	1	*Quercus laurifolia*	2.00	
4	1	*Momordica charantia*	2.00	
4	1	*Dichanthelium erectifolium*	2.00	
4	1	*Eupatorium capillifolium*	1.00	
4	2	*Open*	38.00	
4	2	*Bidens alba*	20.00	
4	2	*Thelypteris palustris*	20.00	
4	2	*Acrostichum danaeifolium*	5.00	
4	2	*Mikania scandens*	4.00	
4	2	*Parthenocissus quinquefolia*	2.00	
4	2	*Cissus verticillata*	2.00	Saturated Soils
4	2	*Quercus laurifolia*	2.00	
4	2	*Erechtites hieraciifolius*	2.00	
4	2	*Psychotria nervosa*	2.00	
4	2	*Urena lobata*	1.00	
4	2	*Toxicodendron radicans*	1.00	
4	2	*Chamaesyce mesembryanthemifolia*	1.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
4	3	*Open*	48.00	
4	3	*Acrostichum danaeifolium*	30.00	
4	3	*Commelina diffusa*	10.00	Saturated Soils
4	3	*Hydrocotyle umbellata*	8.00	
4	3	*Cissus verticillata*	4.00	
4	4	*Blechnum serrulatum*	60.00	
4	4	*Thelypteris palustris*	20.00	
4	4	*Cissus verticillata*	7.00	
4	4	*Acrostichum danaeifolium*	5.00	Saturated Soils
4	4	*Boehmeria cylindrica*	3.00	
4	4	*Open*	3.00	
4	4	*Sarcostemma clausum*	2.00	
4	5	*Open*	45.00	
4	5	*Luziola fluitans*	20.00	
4	5	*Commelina diffusa*	15.00	
4	5	*Annona glabra*	4.00	
4	5	*Sarcostemma clausum*	4.00	
4	5	*Phyla nodiflora*	3.00	Saturated Soils
4	5	*Acrostichum danaeifolium*	3.00	
4	5	*Mikania scandens*	2.00	
4	5	*Acer rubrum*	2.00	
4	5	*Boehmeria cylindrica*	1.00	
4	5	*Hydrocotyle umbellata*	1.00	
Overstory/Understory Stratum				
5	1	*Open*	47.00	
5	1	*Chrysobalanus icaco*	25.00	
5	1	*Quercus laurifolia*	20.00	Saturated Soils
5	1	*Phoenix reclinata*	5.00	
5	1	*Cephalanthus occidentalis*	3.00	
5	2	*Quercus laurifolia*	45.00	
5	2	*Acer rubrum*	15.00	
5	2	*Chrysobalanus icaco*	15.00	
5	2	*Sabal palmetto*	7.00	Saturated Soils
5	2	*Myrica cerifera*	7.00	
5	2	*Pinus elliottii*	6.00	
5	2	*Ilex cassine*	5.00	
5	3	*Quercus laurifolia*	25.00	
5	3	*Pinus elliottii*	25.00	
5	3	*Sabal palmetto*	20.00	
5	3	*Myrsine cubana*	10.00	DRY
5	3	*Psychotria nervosa*	10.00	
5	3	*Myrica cerifera*	5.00	
5	3	*Baccharis glomeruliflora*	5.00	
Herbaceous Stratum				
5	1	*Thelypteris palustris*	40.00	
5	1	*Blechnum serrulatum*	30.00	
5	1	*Chrysobalanus icaco*	10.00	
5	1	*Open*	6.00	Saturated Soils
5	1	*Vitis aestivalis*	5.00	
5	1	*Hydrocotyle umbellata*	4.00	
5	1	*Sarcostemma clausum*	3.00	
5	1	*Mikania scandens*	2.00	
5	2	*Open*	89.00	
5	2	*Quercus laurifolia*	5.00	
5	2	*Sabal palmetto*	3.00	Saturated Soils
5	2	*Annona glabra*	2.00	
5	2	*Syagrus romanzoffiana - potential*	1.00	
5	3	*Open*	42.00	
5	3	*Toxicodendron radicans*	20.00	
5	3	*Smilax sp.*	15.00	
5	3	*Spermacoce assurgens*	8.00	
5	3	*Quercus laurifolia*	4.00	DRY
5	3	*Baccharis glomeruliflora*	3.00	
5	3	*Bidens alba*	3.00	
5	3	*Sabal palmetto*	3.00	
5	3	*Vigna luteola*	2.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
Overstory/Understory Stratum				
6	1	*Quercus laurifolia*	60.00	
6	1	*Myrsine cubana*	25.00	
6	1	*Sabal palmetto*	15.00	Saturated Soils
6	1	*Psychotria nervosa*	4.00	
6	1	*Magnolia virginiana*	4.00	
6	1	*Ficus aurea*	2.00	
6	2	*Acer rubrum*	30.00	
6	2	*Myrsine cubana*	20.00	
6	2	*Open*	17.00	
6	2	*Quercus laurifolia*	15.00	
6	2	*Sabal palmetto*	6.00	Saturated Soils
6	2	*Psychotria nervosa*	4.00	
6	2	*Syzygium cumini*	4.00	
6	2	*Cephalanthus occidentalis*	2.00	
6	2	*Baccharis glomeruliflora*	2.00	
6	3	*Quercus laurifolia*	50.00	
6	3	*Open*	23.00	
6	3	*Myrsine cubana*	15.00	Saturated Soils
6	3	*Acer rubrum*	8.00	
6	3	*Liquidambar styraciflua*	4.00	
6	4	*Acer rubrum*	45.00	
6	4	*Open*	32.00	
6	4	*Quercus laurifolia*	7.00	Saturated Soils
6	4	*Baccharis glomeruliflora*	6.00	
6	4	*Myrica cerifera*	5.00	
6	4	*Chrysobalanus icaco*	5.00	
Herbaceous Stratum				
6	1	*Open*	61.00	
6	1	*Blechnum serrulatum*	10.00	
6	1	*Quercus laurifolia*	9.00	
6	1	*Callicarpa americana*	5.00	
6	1	*Smilax sp.*	3.00	
6	1	*Sabal palmetto*	3.00	Saturated Soils
6	1	*Myrsine cubana*	3.00	
6	1	*Andropogon glomeratus*	2.00	
6	1	*Erechtites hieraciifolius*	2.00	
6	1	*Parthenocissus quinquefolia*	1.00	
6	1	*Rhus copallina*	1.00	
6	2	*Open*	24.00	
6	2	*Panicum rigidulum*	20.00	
6	2	*Centella asiatica*	15.00	
6	2	*Andropogon virginicus*	5.00	
6	2	*Solidago fistulosa*	4.00	
6	2	*Mikania scandens*	4.00	
6	2	*Hypericum myrtifolium*	3.00	
6	2	*Cephalanthus occidentalis*	3.00	
6	2	*Dicanthelium erectifolium*	3.00	Saturated Soils
6	2	*Commelina diffusa*	3.00	
6	2	*Eulophia alta*	3.00	
6	2	*Erechtites hieraciifolius*	3.00	
6	2	*Baccharis glomeruliflora*	3.00	
6	2	*Vernonia angustifolia*	2.00	
6	2	*Quercus laurifolia*	2.00	
6	2	*Acer rubrum*	2.00	
6	2	*Lygodium microphyllum*	1.00	

Freedom Park, Collier County
Fifth Annual Monitoring Data Sheets, November 21, 2013

Transect Number	Plot Number	Scientific Name	Percent Cover	Water Level
6	3	*Open*	26.00	
6	3	*Sabal palmetto*	10.00	
6	3	*Sacciolepis striata*	10.00	
6	3	*Blechnum serrulatum*	8.00	
6	3	*Andropogon virginicus*	7.00	
6	3	*Acer rubrum*	7.00	
6	3	*Vernonia gigantea*	6.00	
6	3	*Andropogon glomeratus*	5.00	
6	3	*Mikania scandens*	4.00	Saturated Soils
6	3	*Quercus laurifolia*	4.00	
6	3	*Erechtites hieraciifolius*	4.00	
6	3	*Baccharis glomeruliflora*	3.00	
6	3	*Amphicarpum muhlenbergianum*	2.00	
6	3	*Toxicodendron radicans*	2.00	
6	3	*Parthenocissus quinquefolia*	1.00	
6	3	*Eclipta alba*	1.00	
6	4	*Open*	25.00	
6	4	*Cyperus ligularis*	9.00	
6	4	*Hydrocotyle umbellata*	8.00	
6	4	*Ceratopteris thalictroides*	8.00	
6	4	*Eupatorium capillifolium*	6.00	
6	4	*Andropogon glomeratus*	5.00	
6	4	*Andropogon virginicus*	5.00	
6	4	*Cissus verticillata*	5.00	
6	4	*Fimbristylis sp.*	5.00	Saturated Soils
6	4	*Mikania scandens*	5.00	
6	4	*Eclipta alba*	3.00	
6	4	*Boehmeria cylindrica*	3.00	
6	4	*Cyperus odoratus*	3.00	
6	4	*Acer rubrum*	3.00	
6	4	*Erechtites hieraciifolius*	3.00	
6	4	*Unknown vine*	3.00	
6	4	*Desmodium sp*	1.00	

GORDON RIVER GREENWAY PARK 5th ANNUAL MONITORING REPORT

PROJECT OVERVIEW:

PERMIT NUMBER Department of the Army - SAJ-2011-00485 (IP-MMB)
South Florida Water Management District - 11-03344-P
ERP Application #: 110617-17

PERMITTEE Collier County Parks and Recreation Department

PERMITTEE CONTACT INFORMATION

Melissa Hennig, Senior Environmental Specialist
15000 Livingston Rd.
Naples, FL 34109

MONITORING DATES The annual monitoring event occurred on March 6, 2019, and March 27, 2019. Collier County Parks and Recreation Environmental Specialists conducted the monitoring during both events.

PURPOSE The purpose of this report is to document the success of the following mitigation projects: 0.2 acres of created/restored tidal mangrove wetlands, ~ 104 acres of nuisance and exotic plant removal, and 25 wetland acres of water quality enhancements. These mitigation projects were created to offset impacts associated with the creation of the Gordon River Greenway Park: filling 3.13 acres of jurisdictional wetlands and surface waters, dredging 0.13 acres of wetlands, and impacting 1.61 acres of wetlands due to shading from boardwalks.

SITE DESCRIPTION Gordon River Greenway Park is a 123.6 acre passive recreation park located approximately one mile East of US41 on Golden Gate Parkway in Sections 27 and 34, Township 49 South, Range 25 East, Collier County, Florida (Latitude/ Longitude: 26.168517°N / -81.784889°W). The park runs primarily along the Gordon River which is a Class III water body. There are eight designated wetland areas and two designated upland areas within the park. The creation/restoration project area is located adjacent to Wetland 3 and consists of 0.2 acres of tidal mangrove wetlands. The water quality enhancements project is in Wetland 2 and consists of 25 acres. The removal of nuisance and exotic vegetation project is located in Wetlands 2, 3, 4, 6, 8 and Uplands 1 and 2 (MAP 1).

MITIGATION COMMENCEMENT AND COMPLETION Initial exotic plant removal within all mitigation areas was completed in November 2012. Semi-annual exotic plant treatments were then conducted for 2 years (May 2013, November 2013, May 2014,

November 2014), and annual treatments began in December 2015. The created marsh mitigation area adjacent to Wetland 3 was completed in April 2014.

PERFORMANCE STANDARDS STATUS Currently, all mitigation areas are meeting the performance standards.

MAINTENANCE ACTIVITIES CONDUCTED SINCE LAST REPORT SUBMISSION

A Collier County volunteer is currently monitoring the edges of the asphalt trail weekly and pulling exotic and nuisance species' re-growth.

All FLEPPC listed Category 1 and Category 2 exotic plant species were treated with herbicide throughout the entire park in August 2018.

RECOMMENDATIONS Treat all FLEPPC listed Category 1 and Category 2 exotic plant species within the entire park in April 2019. An exotics contractor has been hired for the April treatment

REQUIREMENTS:
PERFORMANCE STANDARDS FOR MITIGATION AREAS

1. Coverage of planted and recruited plants will be at least 80% by FAC or wetter species.
2. Hydrologic enhancement will result in soils that are, at a minimum, saturated to the surface between 5% and 12.5% of the growing season.
3. Planted material will have a survivorship of at least 80%.
4. Coverage by FLEPPC Category I and II invasive exotic plant species and the nuisance species Dogfennel (*Eupatorium capillifolium*), Bermudagrass (*Cynodon* sp.), Bahiagrass (*Paspaum notatum*), and cattail (*Typha* sp.) shall total less than 5%.

Semi-annual monitoring of the wetland mitigation areas for the first 3 years and annual monitoring thereafter for a total of no less than 5 years of monitoring is required to show compliance with the performance standards listed above.

METHODS Monitoring transects were previously field located and marked during the time zero monitoring event. Wetland transects 1 and 6 were re-located during the September 2016 monitoring event so that they are now within the boundary of their representative mitigation areas. (MAP 2). A total of 14 fixed transects and 44 fixed photo points are utilized for reporting requirements. All transects have 1 stationary "meter square

sampling" quadrat, except for Wetland Transects 3 and 4, which each have 2 "meter square sampling" quadrats. Transects and quadrats are marked with rebar, pvc pipe, and flagging tape. Transects range in length in an attempt to capture zone and habitat changes. Quadrats were established in areas with minimal to no vegetation to best measure recruitment of native species over time.

During each monitoring event, quantitative data (percent cover) was recorded for herbaceous and woody species in all stratums at each transect and quadrat; and, photo documentation was taken at the beginning and end of each transect and at each quadrat. Parameters measured include: species composition and indicator classification (ex., FAC, FACW, etc), percent cover by native species, and percent cover by FLEPPC Cat. I and II invasive exotic species and nuisance species. Additionally, general observations were made concerning survivorship of planted species and wildlife utilization of the mitigation areas.

Staff gauges were installed within Wetland 4 and the created wetland adjacent to Wetland 3 on September 8, 2016 and are measured a minimum of once per month during November through May and a minimum of twice per month during June through October.

RESULTS The results of the March 2019 vegetation monitoring events associated with the 5th Annual Monitoring Report are summarized in Table 1. Parameters that are not meeting performance standards are highlighted in pink for each transect.

Results of the March 2019 monitoring event indicate that coverage by FLEPPC Category I and II invasive exotic plant species and nuisance species is less than 5% in all wetland and upland mitigation areas. Results also indicate that wetland mitigation areas within Wetland 2, Wetland 6, and the majority of Wetland 3 have achieved at least 80% total cover by FAC or wetter species.

Wetland mitigation areas within the portion of Wetland 3 represented by Transect 9, were hit hard by Hurricane Irma, which drastically reduced canopy and midstory coverage (Figure 1). However, Transect 9 is recovering and the remaining portions of Wetland 3, which includes the Created Wetland have achieved over 80% total cover by FAC or wetter species. Figure 1 also demonstrates that percent cover by FAC or wetter species in Wetland 4 has fluctuated over the years. Wetland 4 is a seasonal freshwater wetland with little canopy and midstory. Timing of monitoring events most likely plays a role in the amount of groundcover coverage observed. The area of Wetland 4 that is east of the monitoring transect is heavily vegetated with black rush (*Juncus roemerianus*) year-round. Spikerush (*Eleocharis cellulosa*) is prevalent throughout Wetland 4 during the wet season.

The number of different native species present throughout all transects has increased over time since the baseline monitoring event (Figure 2). Additionally, the average percent cover by FAC or Wetter species in all stratums of the wetland transects and quadrats and the average percent cover by desirable native species in all stratums of the upland transects and quadrats has trended toward an increase (Figure 3), while percent cover by FLEPPC Category I and II invasive exotic plant species and nuisance species in all stratums of both the wetland and upland transects and quadrats has remained low since initial treatment (Figure 4).

Staff gauge measurements from April 19, 2018 through March 27, 2019 are shown in Figure 5. Water was present in both wetlands for at least six months out of the year.

Detailed field observations and photo documentation are located in the Gordon River Greenway 5th Annual Monitoring Report Appendix which can be found under ERP application # 110617-17 on the South Florida Water Management District's e-permitting website:
http://my.sfwmd.gov/ePermitting/MainPage.do

SUMMARY DATA:

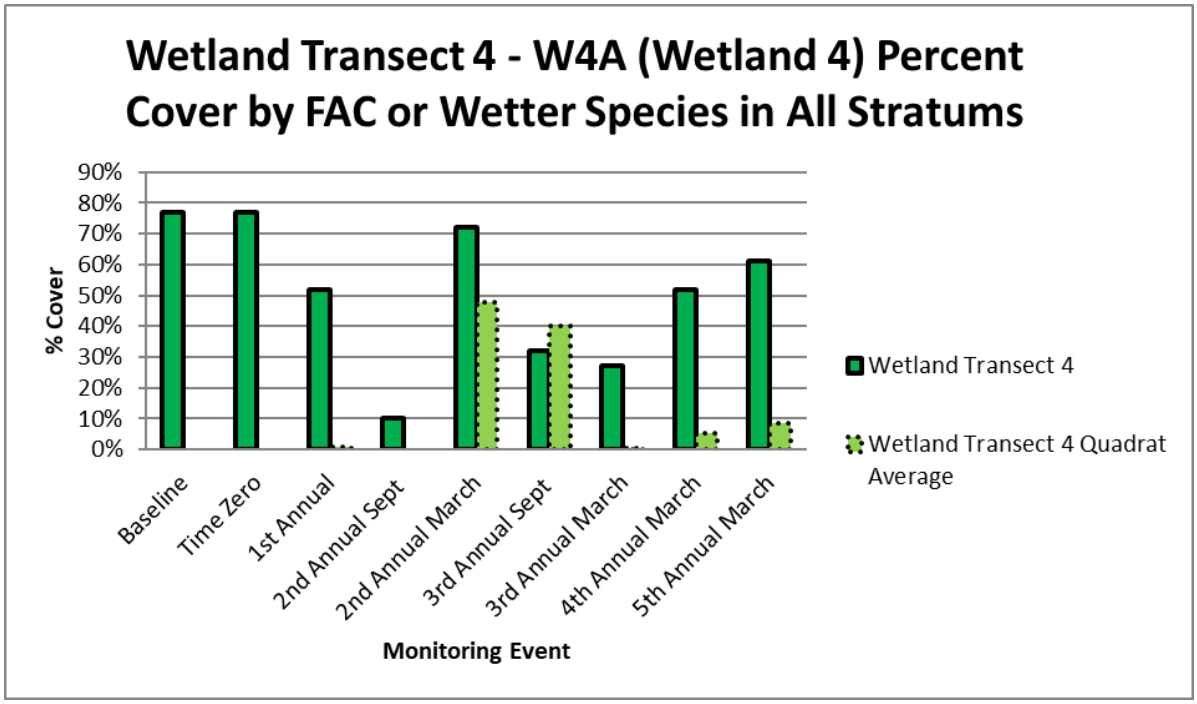
TABLE 1: 5th Annual Monitoring Report Monitoring Event Summary

MARCH 2019

	Wetland Transects										
	1-W2A	*2-W2B*	*3-W2C*	*4-W4A*	*5-W2D*	*6-W2E*	*7-W6A*	*8-W6B*	*9-W3A*	*10-C3A*	
% Cover by FAC or Wetter Natives in All Stratums:	159%	154%	163%	61%	169%	120%	100%	101%	51%	145%	
% Cover by Cat I and II Exotic Species and Nuisance Species in All Stratums:	0%	0%	0%	2%	0%	0%	0%	0%	0%	1%	

	Upland Transects			
	1-U1A	*2-U1B*	*3-U2A*	*4-U2B*
Percent Cover by Desirable Natives in All Stratums:	131%	132%	60%	127%
% Cover by Cat I and II Exotic Species and Nuisance Species in All Stratums:	1%	2%	3%	4%

FIGURE 1:


Wetland Transect 4 - W4A (Wetland 4) Percent Cover by FAC or Wetter Species in All Stratums
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
% Cover
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Wetland Transect 4
Wetland Transect 4 Quadrat Average

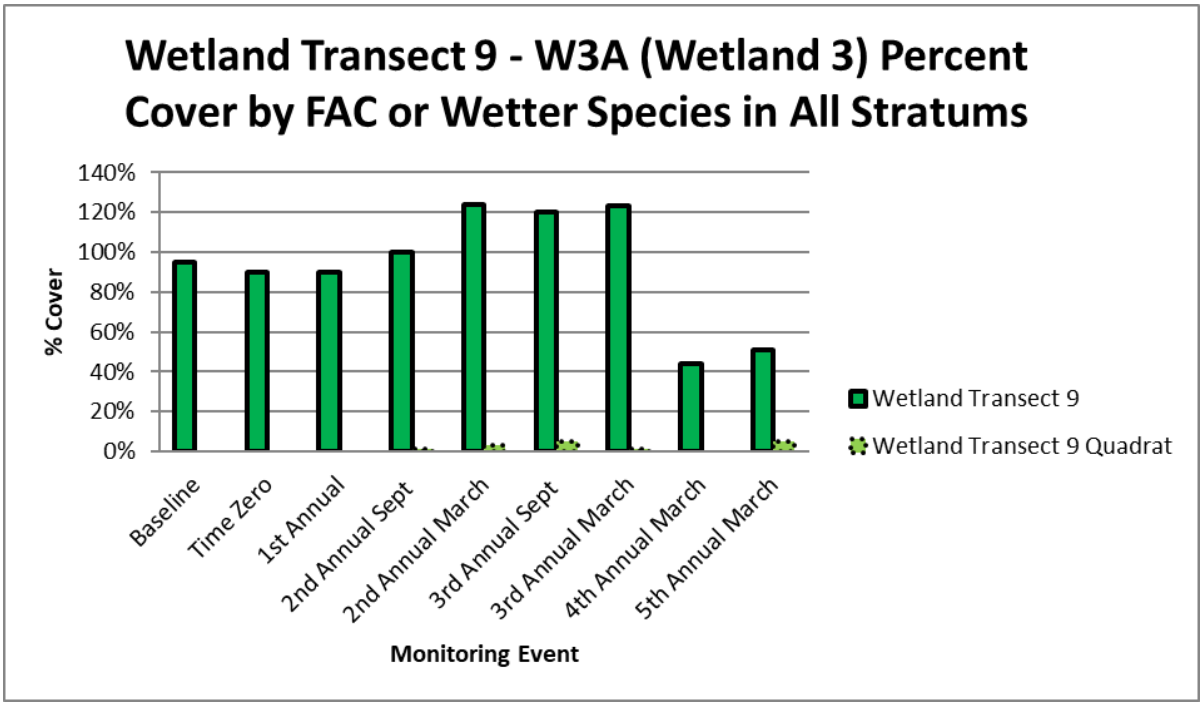
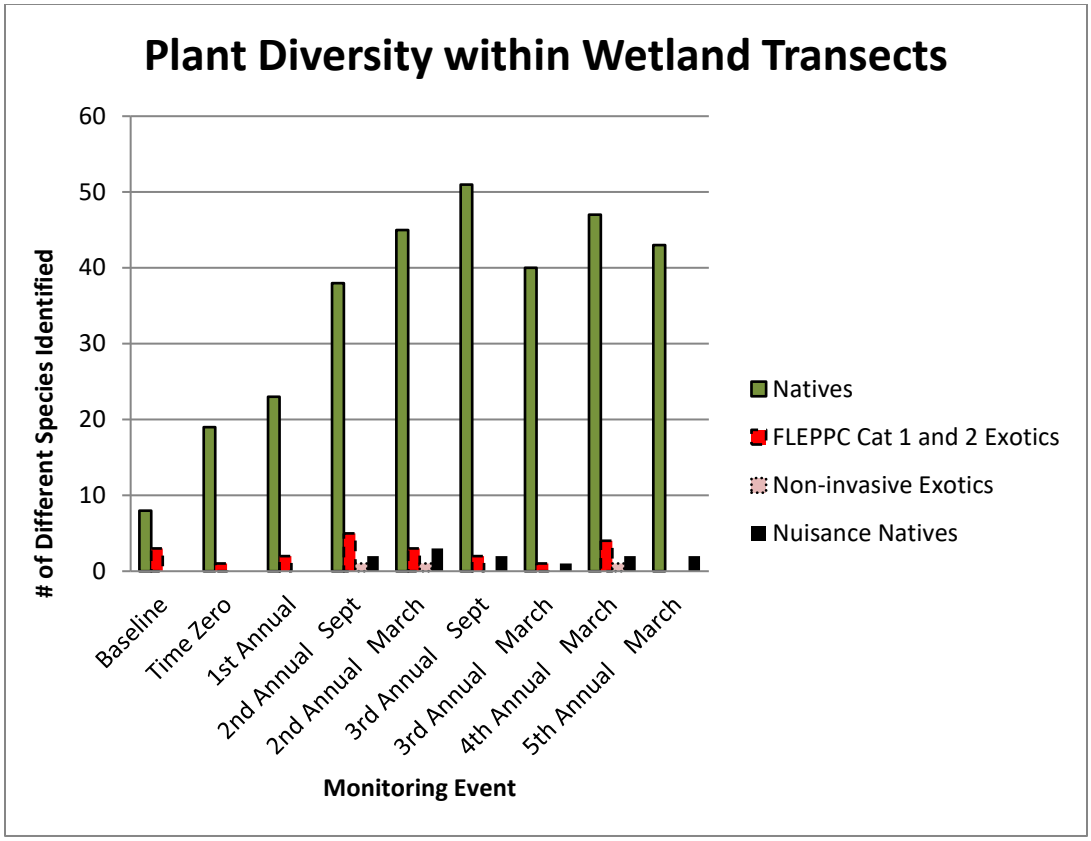

Wetland Transect 9 - W3A (Wetland 3) Percent Cover by FAC or Wetter Species in All Stratums
140%
120%
100%
80%
60%
40%
20%
0%
% Cover
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Wetland Transect 9
Wetland Transect 9 Quadrat

FIGURE 2:


Plant Diversity within Wetland Transects
# of Different Species Identified
60
50
40
30
20
10
0
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Natives
FLEPPC Cat 1 and 2 Exotics
Non-invasive Exotics
Nuisance Natives

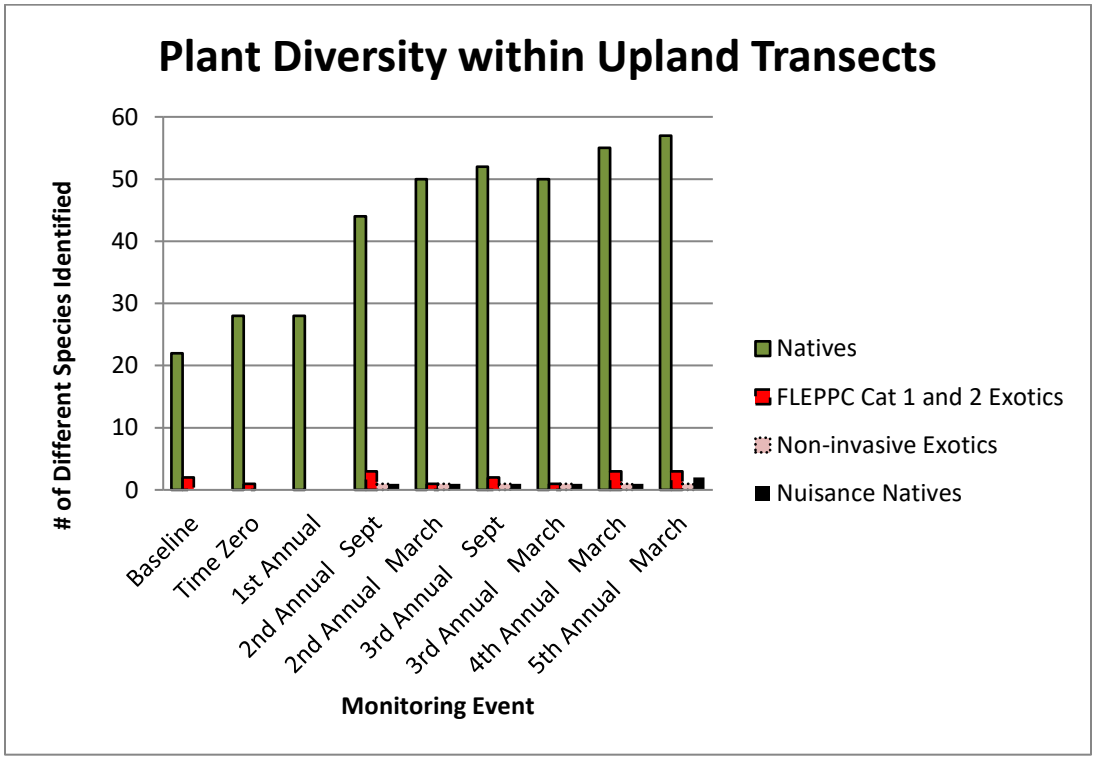
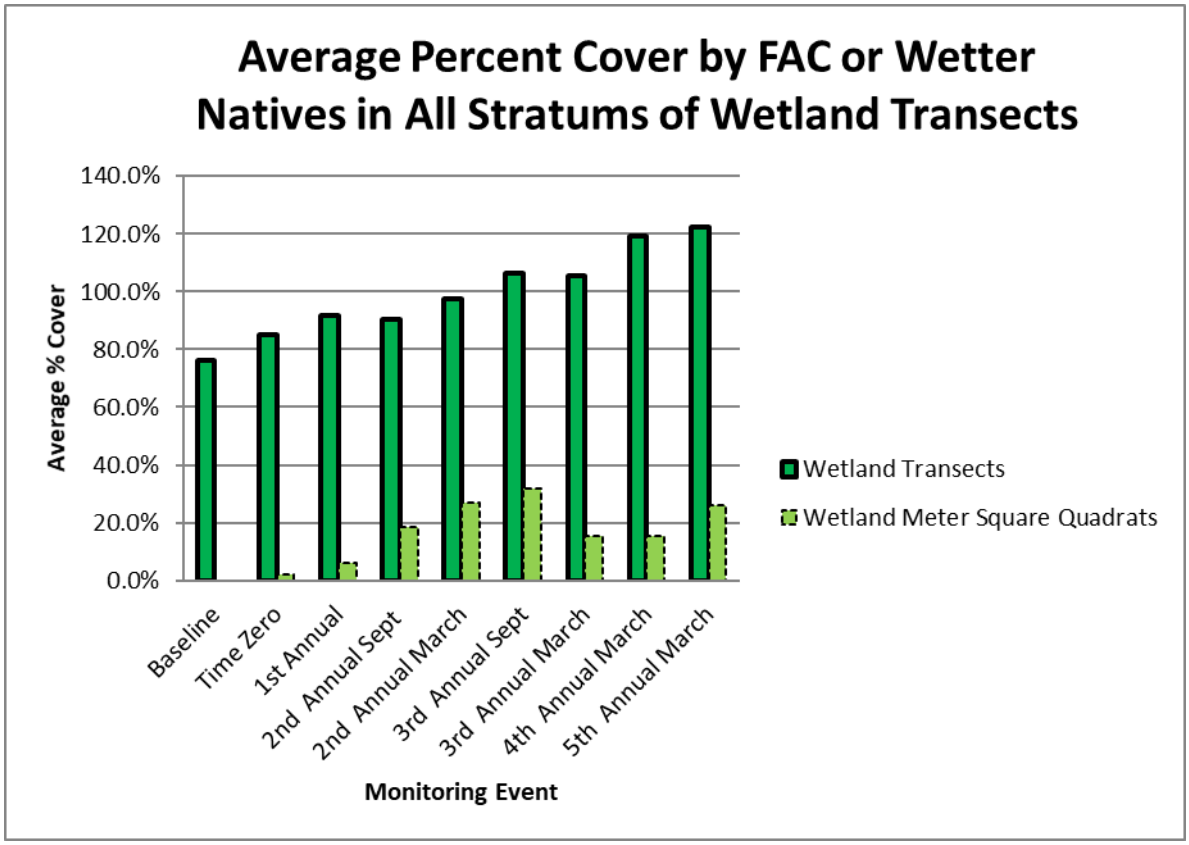

Plant Diversity within Upland Transects
# of Different Species Identified
60
50
40
30
20
10
0
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Natives
FLEPPC Cat 1 and 2 Exotics
Non-invasive Exotics
Nuisance Natives

FIGURE 3:


Average Percent Cover by FAC or Wetter Natives in All Stratums of Wetland Transects
140.0%
120.0%
100.0%
80.0%
60.0%
40.0%
20.0%
0.0%
Average % Cover
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Wetland Transects
Wetland Meter Square Quadrats

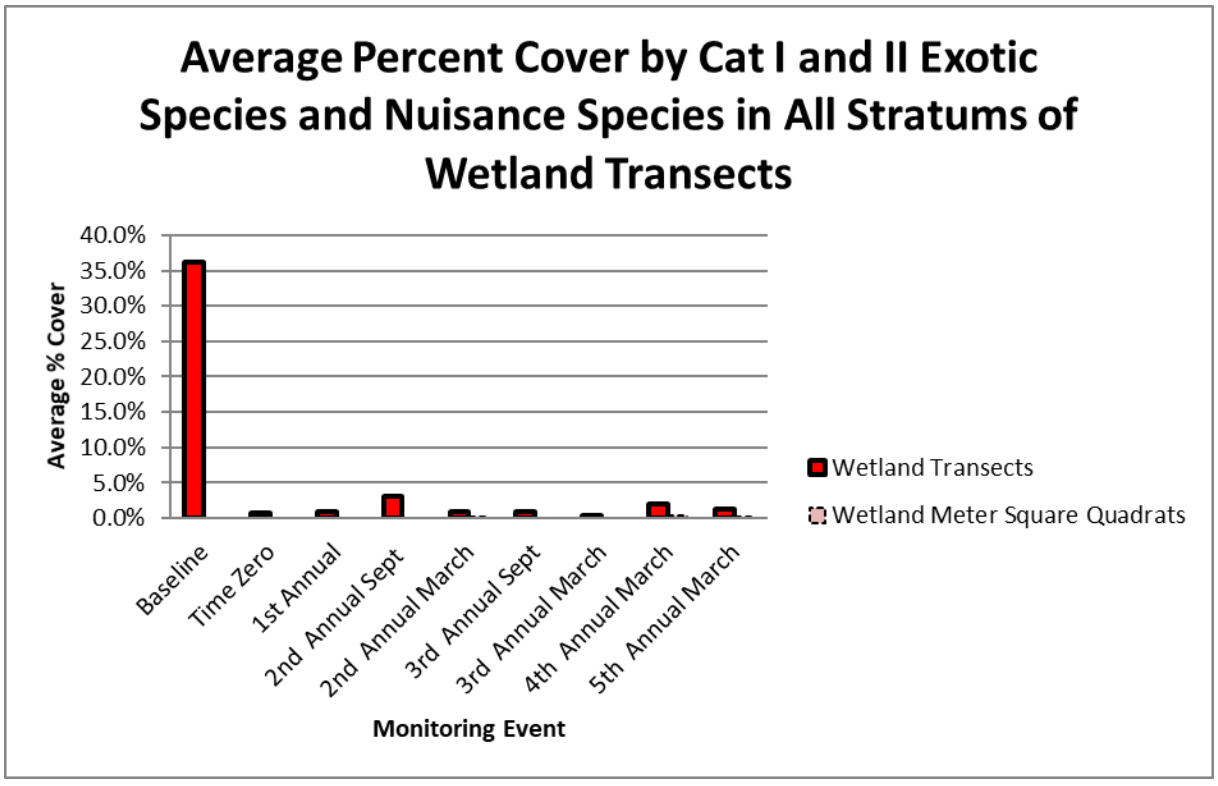
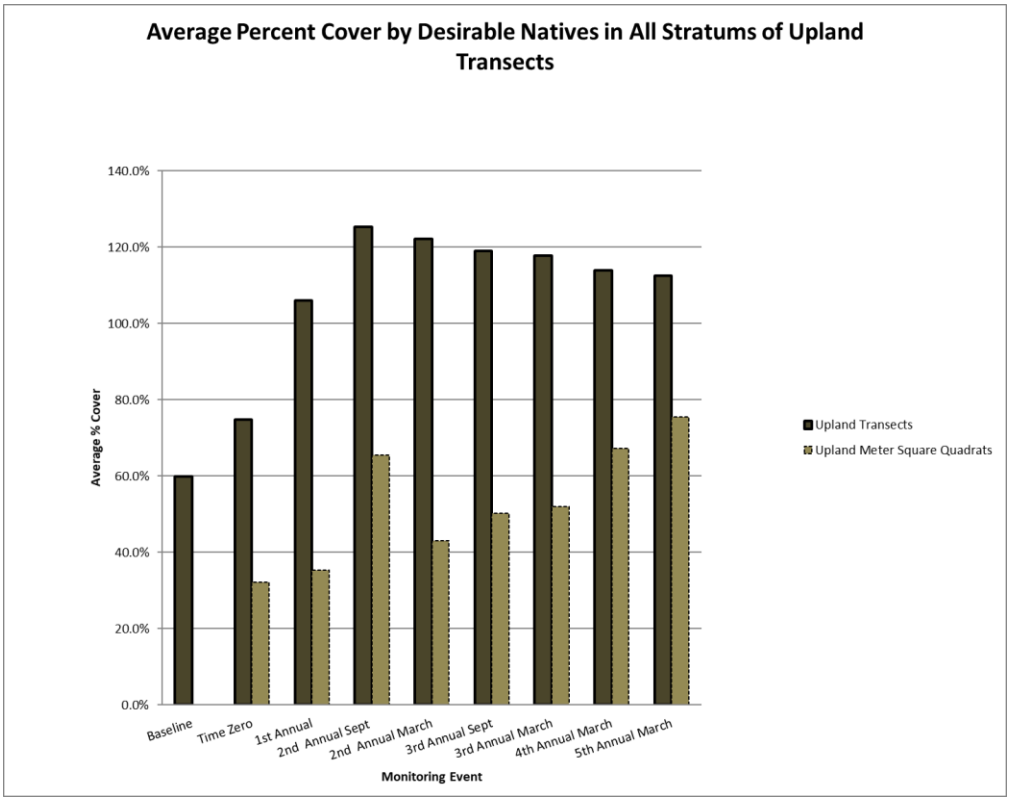

Average Percent Cover by Cat I and II Exotic Species and Nuisance Species in All Stratums of Wetland Transects
40.0%
35.0%
30.0%
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Average % Cover
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Wetland Transects
Wetland Meter Square Quadrats

FIGURE 4:


Average Percent Cover by Desirable Natives in All Stratums of Upland Transects
140.0%
120.0%
100.0%
80.0%
60.0%
40.0%
20.0%
0.0%
Average % Cover
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Upland Transects
Upland Meter Square Quadrats

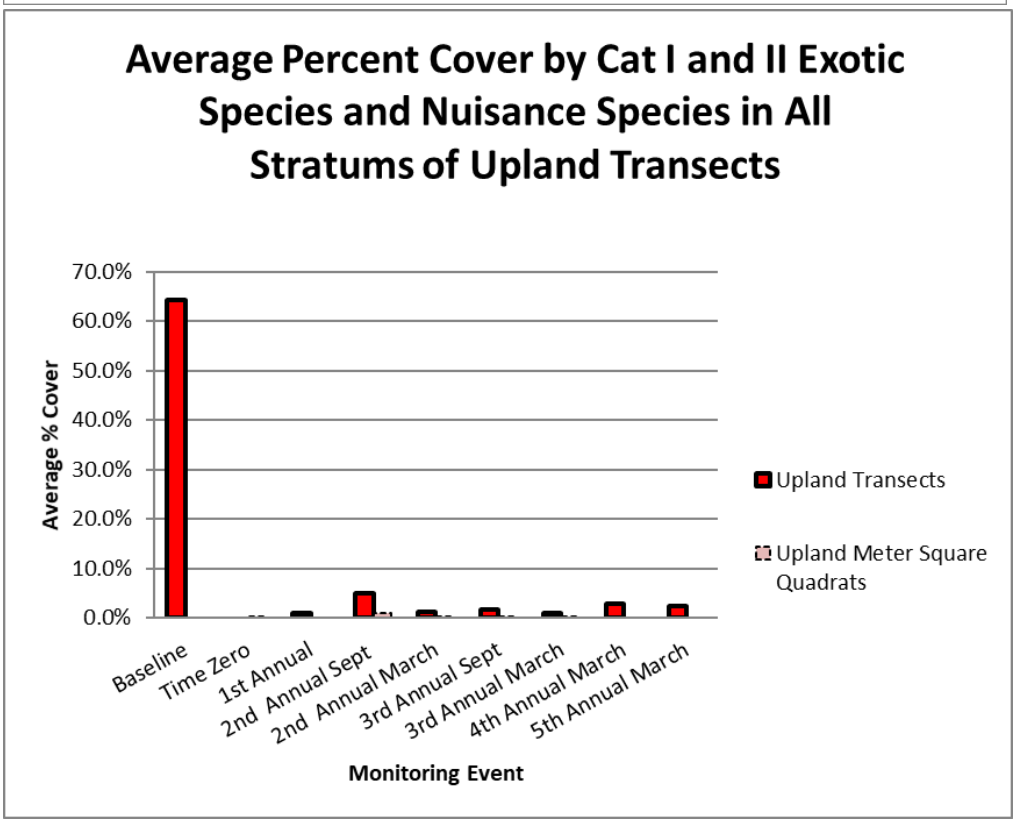
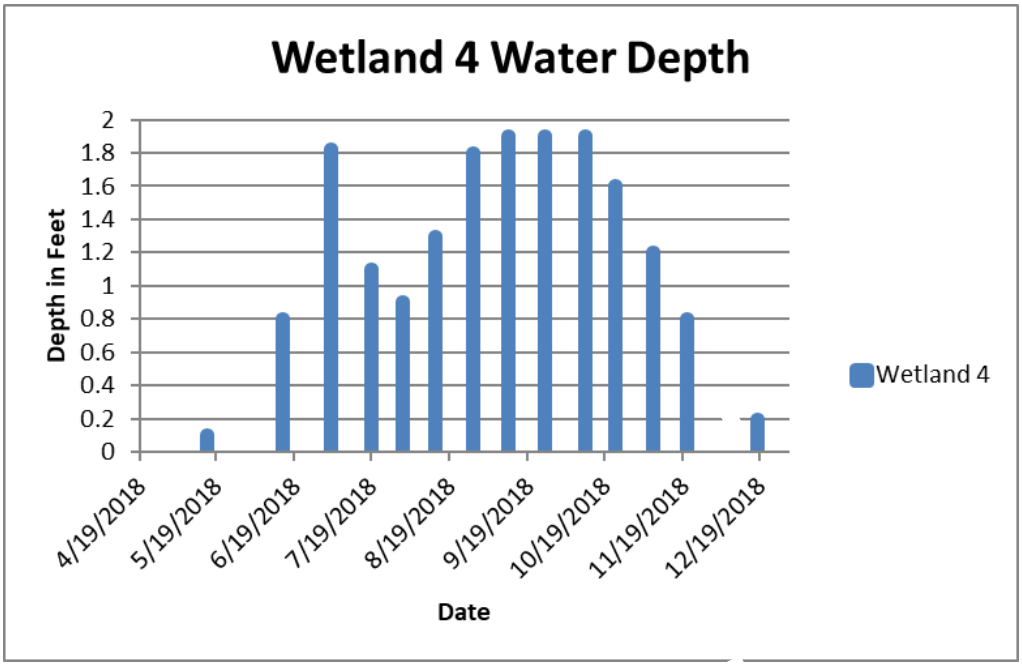
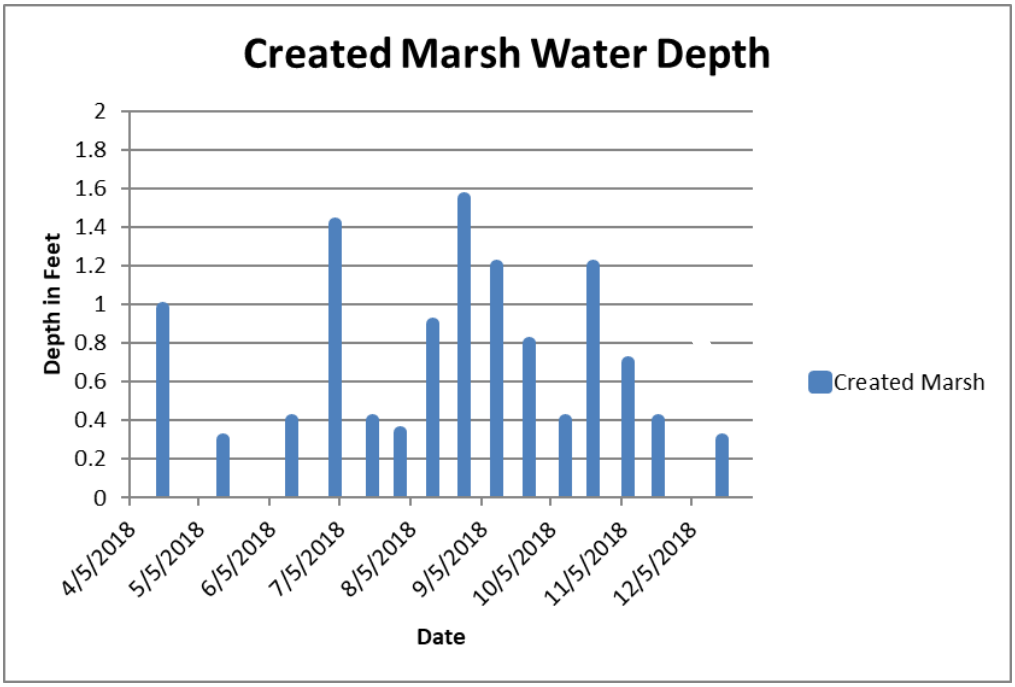

Average Percent Cover by Cat I and II Exotic Species and Nuisance Species in All Stratums of Upland Transects
70.0%
60.0%
50.0%
40.0%
30.0%
20.0%
10.0%
0.0%
Average % Cover
Baseline
Time Zero
1st Annual
2nd Annual Sept
2nd Annual March
3rd Annual Sept
3rd Annual March
4th Annual March
5th Annual March
Monitoring Event
Upland Transects
Upland Meter Square Quadrats

FIGURE 5:



Wetland 4	
Date	Depth in Feet
4/19/2018	0
5/15/2018	0.1
6/14/2018	0.8
7/3/2018	1.82
7/19/2018	1.1
7/31/2018	0.9
8/13/2018	1.3
8/28/2018	1.8
9/11/2018	1.9
9/25/2018	1.9
10/11/2018	1.9
10/23/2018	1.6
11/7/2018	1.2
11/20/2018	0.8
12/18/2018	0.2
1/15/2019	0
2/15/2019	0.5
3/27/2019	0.4

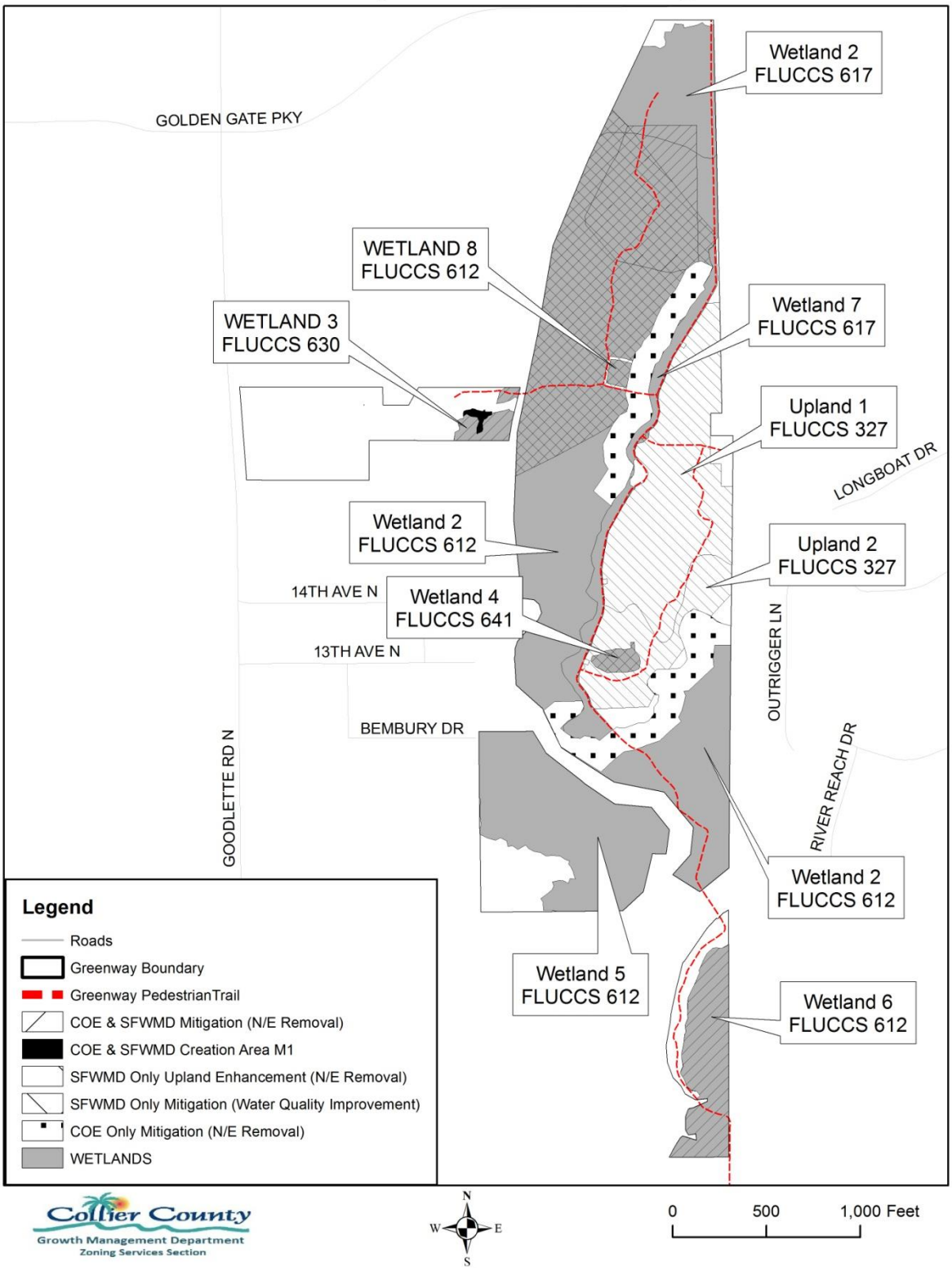


Created Marsh	
Date	Depth in Feet
4/19/2018	0.98
5/15/2018	0.3
6/14/2018	0.4
7/3/2018	1.42
7/19/2018	0.4
7/31/2018	0.34
8/14/2018	0.9
8/28/2018	1.55
9/11/2018	1.2
9/25/2018	0.8
10/11/2018	0.4
10/23/2018	1.2
11/7/2018	0.7
11/20/2018	0.4
12/18/2018	0.3
1/15/2019	0.2
2/15/2019	0.3
3/27/2019	0.45

MAPS AND PLANS:

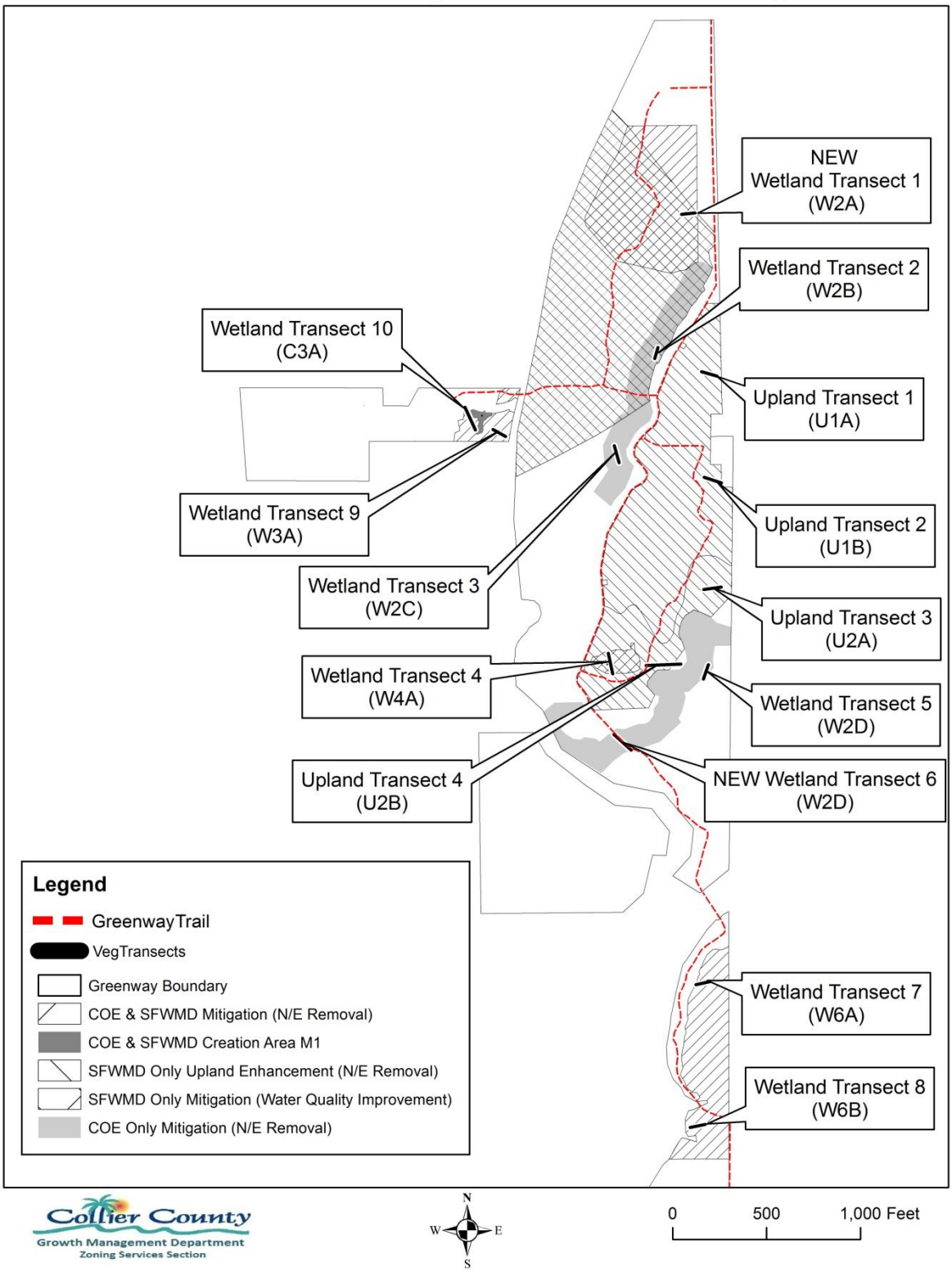
MAP 1:

Gordon River Greenway Park Wetland and Mitigation Areas



MAP 2:

Gordon River Greenway Park Mitigation Areas and Monitoring Transects



CONCLUSIONS:

Overall, the mitigation areas within the Gordon River Greenway Park are in very good condition, with all mitigation areas, except for Wetland 4, meeting performance standards. Wetland 4 does not currently have 80% coverage by FAC or wetter species; however, this area is a seasonal wetland that is drying down in March, the month of the annual vegetation surveys. The wetland contains at least an 80% coverage by FAC or wetter species during the wet season and provides wading bird and duck foraging habitat. See photos below of Wetland 4 in May and July 2018.

Measurement of the performance standard "Hydrologic enhancement will result in soils that are, at a minimum, saturated to the surface between 5% and 12.5% of the growing season" indicates that the performance standard is being met, as both Wetland 3 and Wetland 4 were hydrated for at least six months out of the year.







SOUTH FLORIDA WATER MANAGEMENT DISTRICT

April 19, 2019

Ms. Melissa L. Hennig
Collier County Parks and Recreation Division
3300 Santa Barbara Blvd.
Naples, FL 34116

Subject: **Gordon River Greenway Park**
Monitoring Requirements Satisfied
Permit No. 11-03344-P
Application No. 110617-17
Collier County, S27, 34/T49S/R25E

Dear Ms. Hennig:

The South Florida Water Management District (District) is in receipt of your April 2, 2019 Fifth Annual Monitoring Report required by Special Condition 29 of the above referenced Environmental Resource Permit. This letter is to provide notification that an inspection conducted on April 18, 2019 and a concurrent review of our files indicate that the special conditions relating to the wetland monitoring requirements have been satisfied.

The District appreciates your effort to maintain compliance with Special Condition 30 by managing the preserve area in perpetuity for nuisance and exotic plant species. The total cover of nuisance and exotic plant species shall not exceed 5% cover between maintenance events. Monitoring requirements may be reinstated if the wetlands are not adequately managed and maintained.

If you have any questions or require additional assistance, please contact me at (239) 338-2929 x7715, or via e-mail at efain@sfwmd.gov, in the Fort Myers Service Center.

Sincerely,

Emma Fain, Environmental Analyst II

Environmental Resource Bureau

Enclosure: Location Map

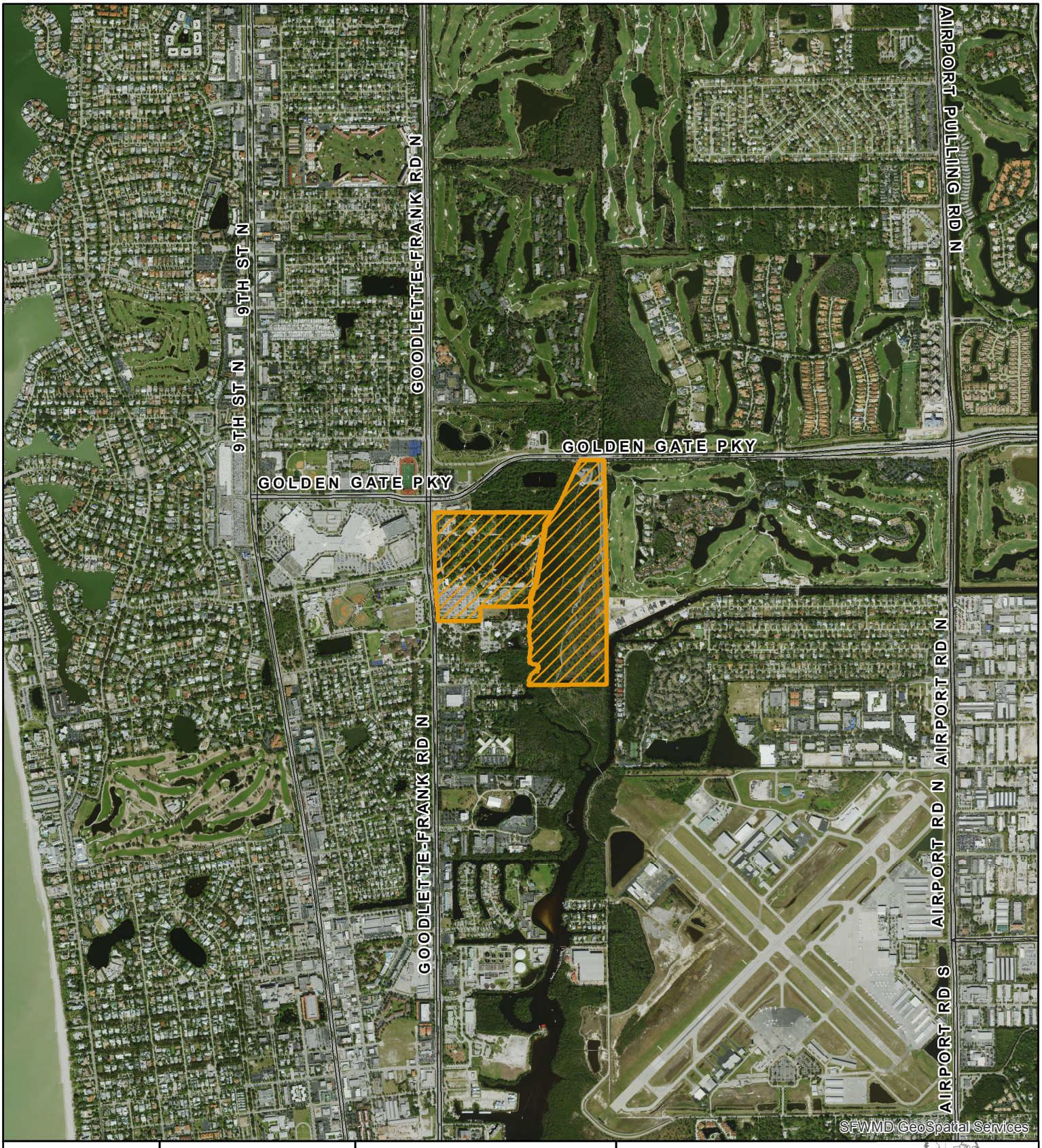


Exhibit No: 1	Exhibit Created On: 2019-04-18	COLLIER COUNTY, FL

REGULATION DIVISION

Project Name: GORDON RIVER GREENWAY PARK

sfwmd.gov

0 0.325 0.65 Miles

N

Application

Permit No: 11-03344-P

Application Number: 110617-17

Created by IT GEOSPATIAL SERVICES

South Florida Water Management District

FREEDOM PARK OBSERVED SPECIES LIST

by Marielle Nageon de Lestang
December 3, 2020

STRATUM: C= Canopy, M= Midstory, G= Groundcover, E= Epiphyte, A= Aquatic
Protection Status: E= Endangered, T= Threatened, S/A= Similar Appearance, C= Candidate
FNAI State Codes: S1= Florida critically imperiled, S2= Florida imperiled because of rarity, S3= very rare in Florida or restricted range, S4= apparently secure (could be rare in specific locations) in Florida
FNAI Global Codes: G1= Globally critically imperiled, G2= Globally imperiled because of rarity, G3= very rare in throughout its range or restricted range, G4= apparently secure globally (could be rare in specific locations, T#= rank of taxonomic subgroup
*= Exotic

PLANT SPECIES			Protected Status		
Common Name	**Scientific Name**	**Stratum**	**State**	**FNAI**	**Federal**
Scrubby Flatwoods				**S2?, G2**	
gumbo limbo	*Bursera simaruba*	C, M, G	-	-	-
seagrape	*Coccoloba uvifera*	C, M, G	-	-	-
slash pine	*Pinus elliottii*	C, M, G	-	-	-
laurel oak	*Quercus laurifolia*	C, M, G	-	-	-
live oak	*Quercus virginiana*	C, M, G	-	-	-
cabbage palm	*Sabal palmetto*	C, M, G	-	-	-
West Indian mahogany	*Swietenia mahagoni*	C, M, G	ST	S3, G3G4	-
American beautyberry	*Callicarpa americana*	M, G	-	-	-
fiddlewood	*Citharexylum spinosum*	M, G	-	-	-
coral bean	*Erythrina herbacea*	M, G	-	-	-
lateflowering throroughwort	*Eupatorium serotinum*	M, G	-	-	-
large gallberry	*Ilex coriacea*	M, G	-	-	-
coastal plain staggerbush	*Lyonia fruticosa*	M, G	-	-	-
wax myrtle	*Morella cerifera*	M, G	-	-	-
myrsine	*Myrsine cubana*	M, G	-	-	-
wild coffee	*Psychotria nervosa*	M, G	-	-	-
Chapman oak	*Quercus chapmanii*	M, G	-	-	-
sand live oak	*Quercus geminata*	M, G	-	-	-
winged sumac	*Rhus copallinum*	M, G	-	-	-
saw palmetto	*Serenoa repens*	M, G	-	-	-
hog plum	*Ximenia americana*	M,G	-	-	-
wild lime	*Zanthoxylum fagara*	M, G	-	-	-
sand cordgrass	*Aristida stricta*	G	-	-	-
hairy beach sunflower	*Helianthus debilis spp. vestitus*	G		S2, G5T2	-
gopher apple	*Geobalanus oblongifoliu*	G	-	-	-
Gulf hairawn muhly	*Muhlenbergia capillaris var. filipes*	G	-	-	-
erect prickly pear	*Opuntia stricta*	G	ST	-	-
bracken fern	*Pteridium aquilinum*	G	-	-	-
possum grape vine	*Cissus verticillata*	V	-	-	-
Virginia creeper	*Parthenocissus quinquefolia*	V	-	-	-
grapevine	*Vitis sp.*	V	-	-	-
Coastal Hydric Hammock				**S4, G4**	-
red maple	*Acer rubrum*	C, M	-	-	-
gumbo limbo	*Bursera simaruba*	C, M	-	-	-
strangler fig	*Ficus aurea*	C, M	-	-	-
Cuban laurel	*Ficus retusa* var. *nitida*	C. M	*	-	-
royal palm	*Roystonea regia*	C, M	SE	S2, G2G3	-

West Indian mahogany	*Swietenia mahagoni*	C, M	ST	S3, G3G4	-
bald cypress	*Taxodium distichum*	C, M	-	-	-
slash pine	*Pinus elliottii*	C, M, G	-	-	-
live oak	*Quercus virginiana*	C, M, G	-	-	-
laurel oak	*Quercus laurifolia*	C, M, G	-	-	-
cabbage palm	*Sabal palmetto*	C, M, G	-	-	-
weeping fig	*Ficus benjamina*	C	*	-	-
seven-year apple	*Casasia clusiifolia*	M	-	-	-
fiddlewood	*Citharexylum spinosum*	M	-	-	-
golden leather fern	*Acrostichum aureum*	M, G	ST	S3, G5	-
giant leather fern	*Acrostichum danaeifolium*	M. G	-	-	-
pond apple	*Annona glabra*	M, G	-	-	-
false willow	*Baccharis angustifolia*	M, G	-	-	-
silverling	*Baccharis glomeruliflora*	M, G	-	-	-
Jamaican caper	*Capparis cynophallophora*	M, G	-	-	-
cocoplum	*Chrysobalanus icaco*	M, G	-	-	-
sour orange	*Citrus x aurantium*	M, G	*	-	-
silver buttonwood	*Conocarpus erectus* var. *sericeus*	M, G	-	-	-
white stopper	*Eugenia axillaris*	M, G	-	-	-
lateflowering throroughwort	*Eupatorium serotinum*	M, G	-	-	-
Florida swamp privet	*Forestiera segregata*	M, G	-	-	-
dahoon holly	*Ilex cassine* var. *cassine*	M, G	-	-	-
large gallberry	*Ilex coriacea*	M, G	-	-	-
sweetgum	*Liquidambar styraciflua*	M, G	-	-	-
sweetbay	*Magnolia virginiana*	M, G	-	-	-
wax myrtle	*Morella cerifera*	M, G	-	-	-
myrsine	*Myrsine cubana*	M, G	-	-	-
coastal plain staggerbush	*Lyonia fruticosa*	M, G	-	-	-
swamp bay	*Persea palustris*	M, G	-	-	-
wild coffee	*Psychotria nervosa*	M, G	-	-	-
white indigoberry	*Randia aculeata*	M, G	-	-	-
winged sumac	*Rhus copallinum*	M, G	-	-	-
coastal willow	*Salix caroliniana*	M, G	-	-	-
Christmas senna	*Senna bicapsularis*	M, G	*	-	-
saw palmetto	*Serenoa repens*	M, G	-	-	-
Mullein nightshade	*Solanum donianum*	M, G	ST	-	-
potato tree	*Solanum erianthum*	M, G	-	-	-
hog plum	*Ximenia americana*	M, G	-	-	-
wire grass	*Aristida sp.*	G	-	-	-
false nettle	*Boehmeria cylindrica*	G	-	-	-
string lily	*Crinum americanum*	G	-	-	-
St. Andrew's cross	*Hypericum hypericoides*	G	-	-	-
giant sword fern	*Nephrolepis biserrata*	G	ST	-	-
Asian sword fern	*Nephrolepis brownii*	G	*	-	-
sword fern	*Nephrolepis exaltata*	G	-	-	-
sweetscent	*Pluchea odorata*	G	-	-	-
giant brake	*Pteris tripartita*	G	-	-	-
knotroot foxtail	*Setaria parvifolora*	G	-	-	-
sand cordgrass	*Spartina bakeri*	G	-	-	-
swamp fern	*Telmatoblechnum serrulatum*	G	-	-	-
hairy maiden fern	*Thelypteris hispidula* var. *versicolor*	G	-	-	-
marsh fern	*Thelypteris palustris* var. *pubescens*	G	-	-	-
possum grape vine	*Cissus verticillata*	V	-	-	-

old world climbing fern	*Lygodium microphyllum*	V	*	-	-
grapevine	*Vitis sp.*	V	-	-	-
resurrection fern	*Pleopeltis michauxiana*	E	-	-	-
northern needleleaf	*Tillandsia balbisiana*	E	ST	-	-
ballmoss	*Tillandsia recurvata*	E	-	-	-
soft-leaved wild-pine	*Tillandsia variabilis*	E	ST	-	-
Floodplain Swamp				**S4, G4**	
red maple	*Acer rubrum*	C, M	-	-	-
bald cypress	*Taxodium distichum*	C, M	-	-	-
strangler fig	*Ficus aurea*	C, M	-	-	-
royal palm	*Roystonea regia*	C, M	SE	S2, G2G3	-
coastal willow	*Salix caroliniana*	C, M, G	-	-	-
pop ash	*Fraxinus caroliniana*	C, M, G	-	-	-
pond apple	*Annona glabra*	M, G	-	-	-
false willow	*Baccharis angustifolia*	M, G	-	-	-
silverling	*Baccharis glomeruliflora*	M, G	-	-	-
giant sword fern	*Nephrolepis biserrata*	M, G	ST	-	-
elderberry	*Sambucus nigra subsp. canadensis*	M, G	-	-	-
fire flag	*Thalia geniculata*	M, G	-	-	-
herb-of-grace	*Bacopa monnieri*	G	-	-	-
water sprite	*Ceratopteris thalictroides*	G	*	-	-
saw grass	*Cladium jamaicense*	G	-	-	-
string lily	*Crinum americanum*	G	-	-	-
common duckweed	*Lemna minor*	G	-	-	-
smartweed	*Polygonum sp.*	G	-	-	-
pickerel weed	*Pontederia cordata*	G	-	-	-
bulltongue arrowhead	*Sagittaria lancifolia*	G	-	-	-
water sprangle	*Salvinia minima*	G	*	-	-
Mangrove Swamp				**S4, G5**	**-**
pond apple	*Annona glabra*	C, M, G	-	-	-
buttonwood	*Conocarpus erectus*	C, M, G	-	-	-
white mangrove	*Laguncularia racemosa*	C, M, G	-	-	-
red mangrove	*Rhizophora mangle*	C, M, G	-	-	-
coinvine	*Dalbergia ecastaphyllum*	V	-	-	-
rubber vine	*Rhabdadenia biflora*	V	-	-	-
Basin Marsh				**S3, G4**	**-**
bald cypress	*Taxodium distichum*	C, M	-	-	-
red maple	*Acer rubrum*	C, M	-	-	-
cabbage palm	*Sabal palmetto*	C, M	-	-	-
coastal willow	*Salix caroliniana*	C, M, G	-	-	-
cattail	*Typha sp.*	M	*	-	-
giant leather fern	*Acrostichum danaeifolium*	M, G	-	-	-
pond apple	*Annona glabra*	M, G	-	-	-
lateflowering throroughwort	*Eupatorium serotinum*	M, G	-	-	-
fire flag	*Thalia geniculata*	M, G	-	-	-
herb-of-grace	*Bacopa monnieri*	G	-	-	-
false nettle	*Boehmeria cylindrica*	G	-	-	-
saw grass	*Cladium jamaicense*	G	-	-	-
blue mistflower	*Conoclinium coelestinum*	G	-	-	-
smooth rattlebox	*Crotalaria pallida*	G	*	-	-
swamp flatsedge	*Cyperus ligularis*	G	-	-	-
knotted spikerush	*Eleocharis interstincta*	G	-	-	-
soft rush	*Juncus effusus subsp. solutus*	G	-	-	-

creeping primrose willow	*Ludwigia repens*	A	-	-	-
giant sword fern	*Nephrolepis biserrata*	G	-	-	-
Asian sword fern	*Nephrolepis brownii*	G	*	-	-
sword fern	*Nephrolepis exaltata*	G	-	-	-
bulltongue arrowhead	*Sagittaria lancifolia*	G	-	-	-
sand cordgrass	*Spartina bakeri*	G	-	-	-
Fakahatcheegrass	*Tripsacum dactyloides*	G	-	-	-
spatterdock	*Nuphar advena subsp. advena*	A	-	-	-
American white waterlily	*Nymphaea odorata*	A	-	-	-
ballmoss	*Tillandsia recurvata*	E	-	-	-

WILDLIFE SPECIES		**Protected Status**		
Common Name	**Scientific Name**	**State**	**FNAI**	**Federal**
Birds				
great egret	*Ardea alba*	-	-	-
great blue heron	*Ardea herodias*	-	-	-
blue jay	*Cyanocitta cristata*	-	-	-
little blue heron	*Egretta caerulea*	ST	S4, G5	-
white ibis	*Eudocimus albus*	-	S4, G5	-
common moorhen	*Gallinula chloropus*	-	-	-
Northern mocking bird	*Mimus polyglottos*	-	-	-
double-crested cormorant	*Phalacrocorax auritus*	-	-	-
blue-grey gnatcatcher	*Polioptila caerulea*	-	-	-
common grackle	*Quiscalus quiscula*	-	-	-
Vireo (unidentified species)	*Vireo sp.*	-	-	-
mourning dove	*Zenaida macroura*	-	-	-
red-shouldered hawk	*Buteo lineatus*	-	-	-
yellow-crowned night heron	*Nyctanassa violacea*		S3, G5	-
tri-color heron	*Egretta tricolor*	ST	S4, G5	-
downy woodpecker	*Dryobates pubescens*	-	-	-
orange-crowned warbler	*Vermivora celata*	-	-	-
Reptiles				
Eastern racer	*Coluber constrictor*	-	-	-
American alligator	*Alligator mississippiensis*	ST(S/A)	S4, G5	FT(S/A)
Butterflies				
sulfur butterfly	*Phoebis sennae*	-	-	-
Mammals				
nine-banded armadillo (burrow and rooting)	*Dasypus novemcinctus*	-	-	-
North American river otter (tracks)	*Lontra canadensis*	-	-	-
raccoon (tracks)	*Procyon lotor*	-	-	-
gray squirrel	*Sciurus carolinensis*	-	-	-
marsh rabbit	*Sylvilagus palustris*	-	-	-
Fish				
alligator gar	*Atractosteus spatula*	-	-	-

Protection Status: E= Endangered, T= Threatened, S/A= Similar Appearance, C= Candidate
FNAI State Codes: S1= Florida critically imperiled, S2= Florida imperiled because of rarity, S3= very rare in Florida or restricted range, S4= apparently secure (could be rare in specific locations) in Florida
FNAI Global Codes: G1= Globally critically imperiled, G2= Globally imperiled because of rarity, G3= very rare in throughout its range or restricted range, G4= apparently secure globally (could be rare in specific locations, T#= rank of taxonomic subgroup
*= Exotic

`GORDON RIVER GREENWAY PARK OBSERVED SPECIES LIST

by Marielle Nageon de Lestang
December 3, 2020

STRATUM: C= Canopy, M= Midstory, G= Groundcover, E= Epiphyte, A= Aquatic
Protection Status: E= Endangered, T= Threatened, S/A= Similar Appearance, C= Candidate
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*= Exotic

PLANT SPECIES			PROTECTED STATUS		
Common Name	**Scientific Name**	**Stratum**	**State**	**FNAI**	**Federal**
Scrubby Flatwoods				**S2?, G2**	
slash pine	*Pinus elliottii*	C, M, G	-	-	-
sand live oak	*Quercus geminata*	C, M, G	-	-	-
laurel oak	*Quercus laurifolia*	C, M, G	-	-	-
live oak	*Quercus virginiana*	C, M, G	-	-	-
gumbo limbo	*Bursera simaruba*	C, M	-	-	-
cabbage palm	*Sabal palmetto*	C, M	-	-	-
American beautyberry	*Callicarpa americana*	M, G	-	-	-
wild cotton	*Gossypium hirsutum*	M, G	ST	-	-
swamp rosemallow	*Hibiscus grandiflorus*	M, G	-	-	-
large gallberry	*Ilex coriacea*	M, G	-	-	-
rusty staggerbush	*Lyonia ferruginea*	M, G	-	-	-
coastal plain staggerbush	*Lyonia fruticosa*	M, G	-	-	-
myrsine	*Myrsine cubana*	M, G	-	-	-
Chapman oak	*Quercus chapmanii*	M, G	-	-	-
scrub oak	*Quercus inopina*	M, G	-	-	-
winged sumac	*Rhus copallinum*	M, G	-	-	-
saw palmetto	*Serenoa repens*	M, G	-	-	-
saffron plum	*Sideroxylon celastrinum*	M, G	-	-	-
hog plum	*Ximenia americana*	M, G	-	-	-
bottlebrush three-awn	*Aristida spiciformis*	G	-	-	-
coastal plain chaffhead	*Carphephorus corymbosus*	G	-	-	-
hatpins	*Eriocaulon sp.*	G	-	-	-
hairy beach sunflower	*Helianthus debilis spp. vestitus*	G		S2, G5T2	-
Atlantic St. John's wort	*Hypericum tenuifolium*	G	-	-	-
Fourpetal St. John's wort	*Hypericum tetrapetalum*	G	-	-	-
Deckert's pinweed	*Lechea deckertii*	G	-	-	-
seaside primrosewillow	*Ludwigia maritima*	G	-	-	-
gopher apple	*Geobalanus oblongifolius*	G	-	-	-
Gulf hairawn muhly	*Muhlenbergia capillaris var. filipes*	G	-	-	-
Devil's tongue	*Opuntia austrina*	G	-	-	-
erect prickly pear	*Opuntia stricta*	G	ST	-	-
narrowleaf silkgrass	*Pityopsis graminifolia*	G	-	-	-
wild pennyroyal	*Piloblephis rigida*	G	-	-	-
bracken fern	*Pteridium aquilinium*	G	-	-	-
blackroot	*Pterocaulon pycnostachyum*	G	-	-	-
hurricanegrass	*Fimbristylis cymosa*	G	-	-	-
rose myrtle	*Rhodomyrtus tomentosa*	G	*	-	-
Cuban jute	*Sida rhombifolia*	G	-	-	-
lopsided Indiangrass	*Sorghastrum secundum*	G	-	-	-

Mullein nightshade	*Solanum donianum*	G	T	-	-
shiny blueberry	*Vaccinium myrsinites*	G	-	-	-
sensitive pea	*Chamaecrista nictitans var. aspera*	G	-	-	-
love vine	*Cassytha filiformis*	V	-	-	-
ballmoss	*Tillandsia recurvata*	E	-	-	-
giant wild-pine	*Tillandsia utriculata*	E	SE	-	-
soft-leaved wild-pine	*Tillandsia variabilis*	E	ST	-	-
Mesic Flatwood				**S4, G4**	
seagrape	*Coccoloba uvifera*	C, M, G	-	-	-
strangler fig	*Ficus aurea*	C, M, G	-	-	-
weeping fig	*Ficus benjamina*	C, M, G	*	-	-
slash pine	*Pinus elliottii*	C, M, G	-	-	-
sand live oak	*Quercus geminata*	C, M, G	-	-	-
laurel oak	*Quercus laurifolia*	C, M, G	-	-	-
live oak	*Quercus virginiana*	C, M, G	-	-	-
Florida royal palm	*Roystonea regia*	C, M, G	SE	S2, G2G3	-
cabbage palm	*Sabal palmetto*	C, M, G	-	-	-
pond apple	*Annona glabra*	M. G	-	-	-
false willow	*Baccharis angustifolia*	M. G	-	-	-
saltbush	*Baccharis halimifolia*	M. G	-	-	-
cocoplum	*Chrysobalanus icaco*	M. G	-	-	-
white stopper	*Eugenia axillaris*	M. G	-	-	-
lateflowering thoroughwort	*Eupatorium serotinum*	M, G	-	-	-
Florida privet	*Forestiera segregata*	M. G	-	-	-
firebush	*Hamelia patens*	M. G	-	-	-
swamp rosemallow	*Hibiscus grandiflorus*	M, G	-	-	-
large gallberry	*Ilex coriacea*	M. G	-	-	-
dahoon	*Ilex cassine var. cassine*	M. G	-	-	-
large gallberry	*Ilex coriacea*	M, G	-	-	-
rusty staggerbush	*Lyonia ferruginea*	M, G	-	-	-
wax myrtle	*Morella cerifera*	M. G	-	-	-
myrsine	*Myrsine cubana*	M. G	-	-	-
wild coffee	*Psychotria nervosa*	M. G	-	-	-
white indigo berry	*Randia aculeata*	M. G	-	-	-
winged sumac	*Rhus copallinum*	M, G	-	-	-
coastal willow	*Salix caroliniana*	M. G	-	-	-
elderberry	*Sambucus nigra subsp. canadensis*	M. G	-	-	-
saw palmetto	*Serenoa repens*	M. G	-	-	-
Mullein nightshade	*Solanum donianum*	M. G	-	-	-
potato tree	*Solanum erianthum*	M, G	-	-	-
nettletree	*Trema micranthum*	M. G	-	-	-
hog plum	*Ximenia americana*	M. G	-	-	-
wire grass	*Aristida stricta*	G	-	-	-
bushy broom grass	*Andropogon glomeratus*	G	-	-	-
broom sedge	*Andropogon virginicus*	G	-	-	-
false nettle	*Boehmeria cylindrica*	G	-	-	-
snowberry	*Chiococca alba*	G	-	-	-
swamp flatsedge	*Cyperus ligularis*	G	-	-	-
saw grass	*Cladium jamaicense*	G	-	-	-
string lily	*Crinum americanum*	G	-	-	-
spikerush	*Eleocharis sp.*	G	-	-	-
hatpins	*Eriocaulon sp.*	G	-	-	-
needlerush	*Juncus roemerianus*	G	-	-	-
seaside primrosewillow	*Ludwigia maritima*	G	-	-	-

Asian sword fern	*Nephrolepis brownii*	G	*	-	-
sweetscent	*Pluchea odorata*	G	-	-	-
bracken fern	*Pteridium aquilinium*	G	-	-	-
star rush whitetop	*Rhynchospora colorata*	G	-	-	-
Southern beaksedge	*Rhynchospora microcarpa*	G	-	-	-
goldenrod	*Solidago sp.*	G	-	-	-
seaside goldenrod	*Solidago sempervirens*	G	-	-	-
swamp fern	*Telmatoblechnum serrulatum*	G	-	-	-
golden polypody	*Phlebodium aureum*	E	-	-	-
possum grape	*Cissus verticillata*	V	-	-	-
grapevine	*Vitis sp.*	V	-	-	-
Maritime Hammock				**S2, G3**	
gumbo limbo	*Bursera simaruba*	C, M	-	-	-
false tamarind	*Lysiloma latisiliquum*	C, M	-	-	-
Jamaican dogwood	*Piscidia piscipula*	C, M, G,	-	-	-
Florida Key's blackbead	*Pithecellobium keyense*	C, M, G	ST	-	-
live oak	*Quercus virginiana*	C, M, G	-	-	-
marlberry	*Ardisia escallonioides*	M	-	-	-
fiddlewood	*Citharexylum spinosum*	M	-	-	-
Jamaican caper	*Capparis cynophallophora*	M	-	-	-
Simpson stopper	*Myrcianthes fragrans*	M	ST		-
gray nickerbean	*Guilandina bonduc*	M, G	-	-	-
pigeon plum	*Coccoloba diversifolia*	M, G	-	-	-
white stopper	*Eugenia axillaris*	M, G	-	-	-
Florida swamp privet	*Forestiera segregata*	M, G	-	-	-
wild cotton	*Gossypium hirsutum*	M, G	ST		-
firebush	*Hamelia patens*	M. G	-	-	-
white indigoberry	*Randia aculeata*	M, G	-	-	-
paradisetree	*Simarouba glauca*	M, G	-	-	-
nettle tree	*Trema micrantha*	M, G	-	-	-
hog plum	*Ximenia americana*	M. G	-	-	-
wild lime	*Zanthoxylum fagara*	M, G	-	-	-
snowberry	*Chiococca alba*	G	-	-	-
blue porterweed	*Stachytarpheta jamaicensis*	G	-	-	-
beggarticks	*Bidens alba*	G	-	-	-
Mangrove Swamp				**S4, G5**	
black mangrove	*Avicennia germinans*	C, M, G	-	-	-
buttonwood	*Conocarpus erectus*	C, M, G	-	-	-
white mangrove	*Laguncularia racemosa*	C, M, G	-	-	-
red mangrove	*Rhizophora mangle*	C, M, G	-	-	-
golden leather fern	*Acrostichum aureum*	M, G	ST	S3, G5	-
giant leather fern	*Acrostichum danaeifolium*	M, G	-	-	-
false willow	*Baccharis angustifolia*	M. G	-	-	-
coinvine	*Dalbergia ecastaphyllum*	M, G	-	-	-
punk tree	*Melaleuca quinquenervia*	M, G	*	-	-
herb-of-grace	*Bacopa monnieri*	G	-	-	-
black needlerush	*Juncus roemerianus*	G	-	-	-
saltgrass	*Distichlis spicata*	G	-	-	-
Asian sword fern	*Nephrolepis brownii*	G	*	-	-
rubber vine	*Rhabdadenia biflora*	V	-	-	-
grapevine	*Vitis sp.*	V	-	-	-
possum grape	*Cissus verticillata*	V	-	-	-
Florida butterfly orchid	*Encyclia tampensis*	E	-	-	-
northern needleleaf	*Tillandsia balbisiana*	E	ST	-	-
stiff-leaved wild pine	*Tillandsia fasciculata*	E	SE	-	-

banded airplant	*Tillandsia flexuosa*	E	ST	S3, G5	-
potbelly airplant	*Tillandsia paucifolia*	E	-	-	-
ballmoss	*Tillandsia recurvata*	E	-	-	-
southern needleleaf	*Tillandsia setacea*	E	-	-	-
giant wild pine	*Tillandsia utriculata*	E	SE	-	-
soft-leaved wild pine	*Tillandsia variabilis*	E	ST	-	-

Protection Status: E= Endangered, T= Threatened, S/A= Similar Appearance, C= Candidate
FNAI State Codes: S1= Florida critically imperiled, S2= Florida imperiled because of rarity, S3= very rare in Florida or restricted range, S4= apparently secure (could be rare in specific locations) in Florida
FNAI Global Codes: G1= Globally critically imperiled, G2= Globally imperiled because of rarity, G3= very rare in throughout its range or restricted range, G4= apparently secure globally (could be rare in specific locations, T#= rank of taxonomic subgroup
*= Exotic

WILDLIFE SPECIES		**PROTECTED STATUS**		
Common Name	**Scientific Name**	**State**	**FNAI**	**Federal**
Birds				
great egret	*Ardea alba*	-	-	-
great blue heron	*Ardea herodias*	-	-	-
green heron	*Butorides virescens*	-	-	-
turkey vulture	*Cathartes aura*	-	-	-
black vulture	*Coragyps atratus*	-	-	-
pileated woodpecker	*Dryocopus pileatus*	-	-	-
little blue heron	*Egretta caerulea*	T	S4, G5	-
white ibis	*Eudocimus albus*	-	S4, G5	-
red-bellied woodpecker	*Melanerpes carolinus*	-	-	-
Vireo (unidentified species)	*Vireo sp.*	-	-	-
mourning dove	*Zenaida macroura*	-	-	-
Reptiles				
Eastern racer	*Coluber constrictor*	-	-	-
gopher tortoise	*Gopherus polyphemus*	T	S3, G3	C
Mammals				
nine-banded armadillo (burrow and rooting)	*Dasypus novemcinctus*	-	-	-
North American river otter	*Lontra canadensis*	-	-	-
raccoon	*Procyon lotor*	-	-	-
gray squirrel	*Sciurus carolinensis*	-	-	-
Eastern cottontail rabbit	*Sylvilagus floridanus*	-	-	-
marsh rabbit	*Sylvilagus palustris*	-	-	-

Gordon River Greenway (Conservation Collier parcels)

by Maureen S. Bonness, with assistance from Michael J. Barry

September 2, 2020

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
x	x	*Abrus precatorius*	Rosary-pea, Crab-eyes		√			I
x	x	*Acacia auriculiformis*	Earleaf acacia		√			I
x		*Acacia pinetorum*	Pineland acacia	N				
	x	*Acalypha arvensis*	Field copperleaf		√			
x	x	*Acrostichum aureum*	Golden leather fern	N		T	S3	
x	x	*Acrostichum danaeifolium*	Giant leather fern	N				
x		*Albizia lebbeck*	Woman's tongue, Rattlepod		√			I
	x	*Allamanda cathartica*	Golden trumpet, Brownbud allamanda		√			
x	x	*Ambrosia artemisiifolia*	Common ragweed	N				
	x	*Ammannia latifolia*	Pink redstem, Toothcups	N				
	x	*Amphicarpum muhlenbergianum*	Blue maidencane	N				
	x	*Andropogon glomeratus* var. *glaucopsis*	Purple bluestem	N				
x	x	*Andropogon glomeratus* var. *pumilus*	Bushy bluestem	N				
x		*Aniseia martinicensis*	Whitejacket		√			
x	x	*Annona glabra*	Pond-apple	N				
x		*Antigonon leptopus*	Coral vine		√			II
x	x	*Ardisia elliptica*	Shoe-button ardisia		√			I
	x	*Ardisia escallonioides*	Marlberry	N				
x		*Aristida spiciformis*	Bottlebrush threeawn	N				
x		*Aristida stricta (=A. beyrichiana)*	Southern wiregrass	N				
	x	*Asclepias curassavica*	Scarlet milkweed, Bloodflower		√			
	x	*Asemeia violacea (=Polygala grandiflora, P. violacea)*	Candyweed, Showy milkwort	N				
x		*Asimina reticulata*	Common pawpaw, Netted pawpaw	N				
x	x	*Avicennia germinans*	Black mangrove	N				
x	x	*Baccharis angustifolia*	Saltwater falsewillow	N				
x	x	*Baccharis halimifolia*	Saltbush, Groundsel tree, Sea-myrtle	N				
	x	*Bacopa monnieri*	Water hyssop, Herb-of-grace	N				
x		*Bambusa* sp.	Bamboo		√			
x	x	*Bidens alba*	Spanish-needles	N				
x	x	*Bischofia javanica*	Javanese bishopwood		√			I
	x	*Boehmeria cylindrica*	Button-hemp, False nettle, Bog hemp	N				
	x	*Boerhavia diffusa*	Red spiderling, Vineflower	N				
x		*Broussonetia papyrifera*	Paper mulberry		√			II
	x	*Buchnera americana*	American bluehearts	N				
x	x	*Bursera simaruba*	Gumbo limbo	N				
x	x	*Callicarpa americana*	American beautyberry	N				
x		*Calophyllum sp.*	Beauty leaf		√			
x		*Carica papaya*	Papaya	N				
x	x	*Carphephorus corymbosus*	Florida paintbrush, Coastalplain chaffhead	N				
x	x	*Cassytha filiformis*	Lovevine, Devil's gut	N				
x	x	*Casuarina equisetifolia*	Australian-pine, Horsetail casuarina		√			I
x		*Cenchrus echinatus*	Southern sandspur	N				
x		*Cenchrus purpureus (=Pennisetum purpureum)*	Elephantgrass, Napier grass		√			I
	x	*Cenchrus spinifex (=C. incertus)*	Coastal sandbur	N				
	x	*Centella asiatica*	Coinwort, Spadeleaf	N				
x		*Chamaecrista nictitans*	Sensitive pea	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Chamaecrista nictitans* var. *aspera*	Hairy sensitive-pea, Hairy partridge-pea	N				
x	x	*Chiococca alba (=C. parvifolia)*	Pineland snowberry	N				
	x	*Chromolaena odorata*	Jack-in-the-bush	N				
x	x	*Chrysobalanus icaco*	Coco plum	N				
x		*Chrysophyllum oliviforme*	Satinleaf	N		T		
x		*Chrysopsis mariana*	Maryland goldenaster	N				
	x	*Cissus verticillata (=C. sicyoides)*	Possum grape, Seasonvine	N				
	x	*Citharexylum spinosum (=C. fruticosum)*	Fiddlewood	N				
	x	*Cladium jamaicense*	Sawgrass	N				
x		*Cnidoscolus stimulosus*	Tread-softly, Finger-rot, 7-minute-itch	N				
x	x	*Coccoloba diversifolia*	Pigeon plum	N				
	x	*Coccoloba uvifera*	Seagrape	N				
x	x	*Cocos nucifera*	Coconut palm		√			II
x		*Colubrina asiatica*	Latherleaf		√			I
x	x	*Commelina diffusa*	Common dayflower		√			
x		*Commelina erecta*	Whitemouth dayflower	N				
x	x	*Conocarpus erectus*	Buttonwood	N				
	x	*Cornus foemina*	Swamp dogwood, Stiff dogwood	N				
	x	*Crinum americanum*	Swamp lily	N				
	x	*Crotalaria pallida* var. *obovata*	Smooth rattlebox		√			
	x	*Croton glandulosus var. septentrionalis (=var. glandulosus)*	Vente conmigo	N				
x	x	*Cupaniopsis anacardioides*	Carrotwood		√			I
	x	*Cyperus croceus*	Baldwin's flatsedge	N				
	x	*Cyperus ligularis*	Swamp flatsedge	N				
	x	*Cyperus polystachyos*	Manyspike flatsedge, Texas sedge	N				
	x	*Dactyloctenium aegyptium*	Crow's-foot grass		√			II
x	x	*Dalbergia ecastaphyllum*	Coinvine	N				
x	x	*Delonix regia*	Royal poinciana		√			
	x	*Desmodium incanum*	Beggar's-ticks		√			
x		*Desmodium* sp.	Beggar's-ticks					
	x	*Dichanthelium aciculare*	Needleleaf witchgrass	N				
	x	*Dichanthelium dichotomum*	Cypress witchgrass	N				
	x	*Dichanthelium ensifolium* var. *unciphyllum*	Cypress witchgrass	N				
	x	*Dichanthelium portoricense*	Hemlock witchgrass	N				
	x	*Dichanthelium strigosum* var. *glabrescens*	Roughhair witchgrass	N				
	x	*Digitaria bicornis*	Asia crabgrass		√			
x		*Dimocarpus longan*	Longan		√			
x	x	*Dioscorea bulbifera*	Air potato		√			I
	x	*Diospyros virginiana*	Common persimmon	N				
x		*Distichlis spicata*	Saltgrass	N				
x		*Dracaena hyacinthoides (=Sansevieria hyacinthoides)*	Mother-in-law's tonge		√			II
	x	*Dracaena reflexa*	Song of Jamaica		√			
x		*Drypetes diversifolia*	Whitewood	N		E	S2	
x		*Dypsis lutescens*	Areca palm		√			
	x	*Echinochloa walteri*	Coast cockspur	N				
	x	*Eclipta prostrata*	False daisy	N				
	x	*Edrastima uniflora (=Hedyotis uniflora)*	Clustered mille graine	N				
	x	*Eleocharis baldwinii*	Baldwin's spikerush, Roadgrass, Hairsedge	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Eleocharis geniculata*	Canada spikerush	N				
	x	*Eleocharis interstincta*	Knotted spikerush	N				
	x	*Eleusine indica*	Indian goosegrass		√			
x	x	*Emilia fosbergii*	Florida tasselflower		√			
	x	*Emilia sonchifolia*	Lilac tassleflower		√			
	x	*Encyclia tampensis*	Florida butterfly orchid	N				
	x	*Erechtites hieraciifolius*	Fireweed, American burnweed	N				
x		*Eriocaulon* sp.	Pipewort	N				
	x	*Erythrina herbacea*	Coralbean, Cherokee bean	N				
x	x	*Eugenia axillaris*	White stopper	N				
x	x	*Eugenia foetida*	Spanish stopper	N				
x	x	*Eupatorium capillifolium*	Dogfennel	N				
	x	*Eupatorium serotinum*	Lateflowering thoroughwort	N				
	x	*Euphorbia blodgettii (=Chamaesyce blodgettii)*	Limestone sandmap	N				
	x	*Euphorbia cyathophora (=Poinsettia cyathophora)*	Painted leaf, Fire-on-the-mountain	N				
	x	*Euphorbia graminea*	Grassleaf spurge		√			
	x	*Euphorbia heterophylla (=Poinsettia heterophylla)*	Fiddler's spurge, Mexican fireplant	N				
	x	*Euphorbia hypericifolia (=Chamaesyce hypericifolia)*	Eyebane, Graceful sandmat	N				
	x	*Euphorbia hyssopifolia (=Chamaesyce hyssopifolia)*	Eyebane, Hyssopleaf sandmat	N				
	x	*Euphorbia ophthalmica (=Chamaesyce ophthalmica)*	Florida hammock sandmat	N				
	x	*Eustachys petraea*	Pinewoods fingergrass	N				
x	x	*Ficus aurea*	Strangler fig, Golden fig	N				
x	x	*Ficus benghalensis*	Banyan tree		√			
x	x	*Ficus citrifolia*	Short-leaf fig, Wild banyan tree	N				
x	x	*Ficus microcarpa*	Laurel fig, Indian laurel		√			I
x	x	*Fimbristylis cymosa*	Hurricanegrass		√			
	x	*Fimbristylis spadicea*	Marsh fimbry	N				
	x	*Flaveria linearis*	Narrowleaf yellowtops	N				
x		*Forestiera segregata*	Florida swampprivet	N				
	x	*Funastrum clausum (=Sarcostemma clausum)*	Whitevine, White twinevine	N				
	x	*Gaillardia pulchella*	Indian blanket, Firewheel	N?				
	x	*Galactia elliottii*	Elliott's milkpea	N				
	x	*Galactia volubilis*	Eastern milkpea	N				
	x	*Galium hispidulum*	Coastal bedstraw	N				
x		*Geobalanus oblongifolius (=Licania michauxii)*	Gopher-apple	N				
	x	*Gomphrena serrata*	Prostate globe amaranth		√			
	x	*Gossypium hirsutum*	Wild cotton	N		T		
	x	*Guilandina bonduc (=Caesalpinia bonduc)*	Gray nicker	N				
x	x	*Hamelia patens*	Firebush	N				
x	x	*Heliotropium angiospermum*	Scorpionstail	N				
x		*Heliotropium polyphyllum*	Pineland heliotrope	N				
x		*Hemarthria altissima*	Limpograss		√			II
	x	*Hibiscus coccineus*	Scarlet rosemallow	N				
	x	*Houstonia procumbens (=Hedyotis procumbens)*	Innocence, Roundleaf bluet	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Hydrocotyle* sp.	Pennywort	N				
	x	*Hypericum cistifolium*	Roundpod St. John's-wort	N				
	x	*Hypericum hypericoides*	St. Andrew's-cross	N				
x		*Hypericum tenuifolium (=Hypericum reductum)*	Atlantic St. John's-wort	N				
	x	*Hypericum tetrapetalum*	Fourpetal St. John's-wort	N				
x		*Hypoxis* sp.	Yellow stargrass	N				
x	x	*Ilex cassine*	Dahoon holly, Dahoon	N				
x	x	*Ilex glabra*	Gallberry, Inkberry	N				
	x	*Imperata cylindrica*	Cogongrass		√			I
	x	*Ipomoea sagittata*	Glades morning-glory	N				
	x	*Juncus megacephalus*	Bighead rush	N				
x	x	*Juncus roemerianus*	Needle rush, Black rush	N				
x		*Juniperus virginiana*	Red cedar	N				
x		*Kalanchoe* sp.	Life plant		√			
	x	*Lachnocaulon anceps*	Whitehead bogbutton	N				
x	x	*Laguncularia racemosa*	White mangrove	N				
x	x	*Lantana strigocamara (=L. camara)*	Shrubverbena		√			I
x	x	*Leucaena leucocephala*	White leadtree		√			II
x		*Liatris tenuifolia*	Shortleaf gayfeather	N				
	x	*Ludwigia curtissii*	Curtiss's primrosewillow	N				
	x	*Ludwigia maritima*	Seaside primrosewillow	N				
	x	*Ludwigia microcarpa*	Smallfruit primrosewillow	N				
	x	*Ludwigia octovalvis*	Mexican primrosewillow	N				
x		*Lygodesmia aphylla*	Roserush	N				
x	x	*Lygodium microphyllum*	Small-leaf climbing fern		√			I
x		*Lyonia ferruginea*	Rusty staggerbush	N				
x	x	*Lyonia fruticosa*	Coastalplain staggerbush	N				
	x	*Lysiloma latisiliquum*	False tamarind	N				
	x	*Macroptilium lathyroides*	Wild bushbean		√			II
x	x	*Melaleuca quinquenervia*	Punktree		√			I
x		*Melia azedarach*	Chinaberry		√			II
	x	*Melothria pendula*	Creeping-cucumber	N				
	x	*Mikania scandens*	Climbing hempweed, Climbing hempvine	N				
	x	*Millettia pinnata (=Pongmia pinnata)*	Karum tree, Pongamia		√			
	x	*Mimosa strigillosa*	Powderpuff	N				
	x	*Mitreola petiolata*	Miterwort, Lax hornpod	N				
x	x	*Momordica charantia*	Balsampear		√			II
x		*Monstera deliciosa*	Cut-leaf philodendron		√			
x	x	*Morella cerifera (=Myrica cerifera)*	Wax myrtle, Southern bayberry	N				
	x	*Morus rubra*	Red mullberry	N				
	x	*Musa x paradisiaca*	Common banana		√			
	x	*Myrcianthes fragrans*	Simpson's stopper, Twinberry	N		T		
	x	*Myriopus volubilis (=Tournefortia volubilis)*	Twining soldierbush	N				
x	x	*Myrsine cubana (=Rapanea punctata)*	Myrsine, Colicwood	N				
	x	*Nephrolepis brownii (=N. multiflora)*	Asian sword fern		√			I
	x	*Nephrolepis cordifolia*	Tuberous sword fern		√			I
	x	*Nephrolepis exaltata*	Wild Boston fern	N				
	x	*Oeceoclades maculata*	African ground orchid, Monk orchid		√			
	x	*Oplismenus hirtellus*	Woodgrass, Basketgrass	N				
x		*Opuntia stricta*	Pricklypear	N		T		
x	x	*Panicum repens*	Torpedo grass		√			I

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
x	x	*Parthenocissus quinquefolia*	Virginia-creeper, Woodbine	N				
	x	*Paspalum setaceum*	Thin paspalum	N				
x	x	*Paspalum vaginatum*	Seashore paspalum	N				
x	x	*Passiflora suberosa*	Corkystem passionflower	N				
x		*Persea borbonia*	Red bay	N				
x	x	*Persea palustris*	Swamp bay	N				
x	x	*Phlebodium aureum*	Golden polypody	N				
x		*Phoenix reclinata*	Senegal date palm		√			II
x	x	*Phyla nodiflora*	Frogfruit, Capeweed	N				
	x	*Phyllanthus tenellus*	Mascarene Island leafflower		√			
	x	*Phyllanthus urinaria*	Chamber bitter		√			
x		*Physalis angulata*	Cutleaf groundcherry	N				
	x	*Physalis angustifolia*	Coastal groundcherry	N				
	x	*Physalis cordata*	Heartleaf groundcherry	N				
x	x	*Phytolacca americana*	American pokeweed	N				
x		*Piloblephis rigida*	Wild pennyroyal	N				
x	x	*Pinus elliottii* var. *densa*	South Florida slash pine	N				
	x	*Piscidia piscipula*	Jamaican dogwood, Florida fishpoison tree	N				
	x	*Pisonia aculeata*	Devil's claw, Pullback	N				
	x	*Pithecellobium keyense*	Florida Key's blackbead	N		T		
x		*Pityopsis graminifolia*	Narrowleaf silkgrass	N				
x	x	*Pleopeltis michauxiana (=Pleopeltis polypodioides* var. *michauxiana)*	Resurrection fern	N				
	x	*Pluchea baccharis (=Pluchea rosea)*	Rosy camphorweed	N				
x	x	*Pluchea carolinensis*	Cure-for-all	N				
x	x	*Pluchea odorata*	Sweetscent	N				
x	x	*Polygala nana*	Candyroot	N				
	x	*Psilotum nudum*	Whisk fern	N				
x	x	*Psychotria nervosa*	Wild coffee	N				
	x	*Pteridium aquilinum* var. *caudatum*	Tailed bracken fern	N				
	x	*Pteridium aquilinum* var. *pseudocaudatum*	Tailed bracken fern	N				
	x	*Pteris vittata*	China brake		√			II
x		*Pterocaulon pycnostachyum*	Blackroot	N				
	P	*Quadrella jamaicensis (=Capparis jamaicensis)*	Jamaican capertree	N				
x		*Quercus chapmanii*	Chapman's oak	N				
x		*Quercus geminata*	Sand live oak	N				
x		*Quercus inopina*	Scrub oak	N				
	x	*Quercus laurifolia*	Laurel oak, Diamond oak	N				
x	x	*Quercus minima*	Dwarf live oak	N				
	x	*Quercus pumila (=Quercus elliottii)*	Running oak	N				
x	x	*Quercus virginiana*	Virginia live oak	N				
x	x	*Randia aculeata*	White indigoberry	N				
	x	*Rhabdadenia biflora*	Rubbervine, Mangrovevine	N				
x	x	*Rhizophora mangle*	Red mangrove	N				
x	x	*Rhodomyrtus tomentosa*	Downy rose myrtle		√			I
	x	*Rhus copallinum*	Winged sumac	N				
	x	*Rhynchospora colorata*	Starrush whitetop	N				
	x	*Rhynchospora divergens*	Spreading beaksedge	N				
	x	*Rhynchospora fascicularis*	Fascicled beaksedge	N				
	x	*Rhynchospora globularis*	Globe beaksedge	N				
	x	*Rhynchospora microcarpa*	Southern beaksedge	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Rhynchospora plumosa*	Plumed beaksedge	N				
x		*Ricinus communis*	Castor-bean		√			II
x	x	*Roystonea regia*	Royal palm	N		E	S2	
	x	*Ruellia blechum (=Blechumn pyramidatum)*	Green shrimp-plant, Browne's blechum		√			II
x	x	*Sabal palmetto*	Cabbage palm	N				
x		*Sabatia brevifolia*	Shortleaf rosegentian	N				
x		*Saccharum officinarum*	Sugarcane		√			
	x	*Salix caroliniana*	Coastal Plain willow	N				
	x	*Samolus ebracteatus*	Water pimpernel, Limewater brookweed	N				
x	x	*Schefflera actinophylla*	Australian umbrellatree		√			I
x	x	*Schinus terebinthifolia*	Brazilian pepper		√			I
	x	*Scleria ciliata*	Fringed nutrush	N				
	x	*Scoparia dulcis*	Sweetbroom, Licoriceweed	N				
	x	*Senna obtusifolia*	Coffeeweed, Sicklepod	N				
x		*Senna occidentalis*	Septicweed		√			
x	x	*Senna pendula var. glabrata*	Valamuerto, Christmas cassia		√			I
x	x	*Serenoa repens*	Saw palmetto	N				
	x	*Setaria parviflora (=S. geniculata)*	Knotroot foxtail, Yellow bristlegrass	N				
x	x	*Sida cordifolia*	Llima		√			
	x	*Sida rhombifolia*	Cuban jute, Indian hemp	N				
	x	*Sida ulmifolia (=S. acuta)*	Common wireweed, Common fanpetals	N				
x	x	*Sideroxylon celastrinum*	Saffron plum, Bumelia	N				
x	x	*Sideroxylon foetidissimum (=Mastichodendron foetidissimum)*	Mastic	N				
	x	*Sideroxylon reclinatum*	Florida bully, Buckthorn	N				
	P	*Simarouba glauca*	Paradise tree	N				
x	x	*Smilax auriculata*	Earleaf greenbrier	N				
	x	*Smilax bona-nox*	Saw greenbrier	N				
x		*Smilax* sp.	greenbrier	N				
	x	*Solanum americanum*	American black nightshade	N				
x	x	*Solanum donianum*	Mullein nightshade	N		T		
	x	*Solanum erianthum*	Potatotree	N				
	x	*Solidago sempervirens*	Seaside goldenrod	N				
x		*Solidago* sp.	goldenrod	N				
	x	*Sonchus oleraceus*	Common sowthistle		√			
x		*Sorghastrum secundum*	Lopsided Indian grass	N				
	x	*Spermacoce remota (=Spermacoce assurgens)*	Woodland false buttonweed	N				
x	x	*Spermacoce verticillata*	Shrubby false buttonweed		√			II
	x	*Sporobolus jacquemontii (=S. indicus var. pyramidalis)*	West Indian dropseed		√			I
x		*Sporobolus junceus*	Dropseed, Pinewoods	N				
	x	*Stachytarpheta jamaicensis*	Porterweed	N				
	x	*Stenotaphrum secundatum*	St. Augustine grass		√			
x	x	*Swietenia mahagoni*	West Indian mahogany	N		T	S3	
x	x	*Syngonium podophyllum*	American evergreen		√			I
x		*Syzygium cumini*	Java plum		√			I
x	x	*Syzygium jambos*	Rose apple, Malabar plum		√			II
x		*Talipariti tileaceum*	Mahoe, Sea hibiscus		√			II
x	x	*Telmatoblechnum serrulatum (=Blechnum serrulatum)*	Swamp fern	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
x	x	*Terminalia catappa*	West Indian tropical almond		√			II
x	x	*Terminalia molinetii (=Bucida molinetii)*	Spiny black olive	N				
	x	*Thelypteris hispidula*	Hairy maiden fern	N				
	x	*Thelypteris interrupta*	Hottentot fern, Shiny Thelypteris	N				
	x	*Thelypteris kunthii*	Southern shield fern	N				
	x	*Tillandsia balbisiana*	Reflexed wild-pine, Northern needleleaf	N		T		
x	x	*Tillandsia fasciculata*	Stiff-leaved wild-pine, Cardinal airplant	N		E		
x		*Tillandsia flexuosa*	Banded wild-pine, Twisted airplant	N		T	S3	
	x	*Tillandsia paucifolia*	Potbelly airplant	N				
	x	*Tillandsia recurvata*	Ball-moss	N				
x	x	*Tillandsia setacea*	Thin-leaved wild-pine, Southern needleleaf	N				
	x	*Tillandsia utriculata*	Giant wild-pine, Giant airplant	N		E		
	x	*Tillandsia variabilis*	Soft-leaved wild-pine	N		T		
	x	*Torenia crustacea (=Lindernia crustacea)*	Malaysian false-pimpernel		√			
x	x	*Toxicodendron radicans*	Eastern poison-ivy	N				
	x	*Tradescantia spathacea (=Rhoeo spathacea)*	Moses-in-the-cradle, Oyster plant		√			I
x	x	*Trema micranthum*	Nettletree	N				
	x	*Typha domingensis*	Southern cattail	N				
x	x	*Urena lobata*	Caesarweed		√			I
x	x	*Urochloa maxima (=Panicum maximum)*	Guineagrass		√			II
x	x	*Vaccinium myrsinites*	Shiny blueberry	N				
	x	*Varronia globosa (=Cordia globosa)*	Curacao bush	N		E		
	x	*Verbesina virginica*	Frostweed, White crownbeard	N				
	x	*Vigna luteola*	Cow-pea, Hairypod cowpea	N				
x		*Vitex trifolia*	Simpleleaf chastetree	N				II
x	x	*Vitis rotundifolia*	Muscadine grape	N				
x		*Vitis shuttleworthii*	Caloosa grape	N				
	x	*Vittaria lineata*	Shoestring fern	N				
	x	*Waltheria indica*	Sleepy morning	N				
	x	*Woodwardia virginica*	Virginia chain fern	N				
	x	*Ximenia americana*	Hog-plum, Tallowwood	N				
x	x	*Zanthoxylum fagara*	Wild lime	N				
Count								
159	256			237	80	16	5	47

State Codes: E=Endangered, T=Threatened
FNAI Codes: S1=critically imperiled; S2=imperiled because of rarity; S3=very rare in Florida or restricted range
FLEPPC Codes: Category I = species has altered native plant communities; Category II = species with increasing abundance or frequency

Sources. Scentific plant names and Native/Not-Native status is according to the Atlas of Florida Plants website as of July 2020. State status is from Florida Department of Agriculture and Consumer Services 2018 list. FNAI category is from Florida Natural Areas Inventory April 2019 list. FLEPPC category is from the Florida Exotic Pest Plant Council 2019 list.

Gopher Tortoise Burrow Survey West of Bear's Paw - April 3 and April 5, 2013



N
W E
S

CONSERVATION COLLIER
For Present and Future Generations

0 150 300 Feet

Legend

Gopher Tortoise Burrows

- Abandoned - 33 burrows
- Potentially Occupied - 40 burrows
- Potentially Occupied outside development - 18 burrows

- Trail footprint
- 25 ft. each side of trail
- Project Boundary

Collier County Gordon River Greenway Park Gopher Tortoise Burrow Survey Report

April 23, 2013

Melissa Hennig, Collier County Senior Environmental Specialist

Groundbreaking for Collier County's Gordon River Greenway Park is scheduled for May 2, 2013. Melissa Hennig (Authorized Agent Permit No.: GTA-11-00013A) and assistants, Mary Toro, Markus Hennig, and Alexandra Sulecki completed 100% gopher tortoise burrow surveys within all of the Gordon River Greenway Park's potential gopher tortoise habitat that will be impacted by development activities. All burrows were GPS'd with a Trimble GPS unit using ArcMap software. Latitude, longitude, and burrow status were also handwritten on datasheets in the field. Each burrow was flagged with flagging tape containing the following information: burrow number, burrow status, and date. Surveys were broken into 3 sections based on location: 1.) South of Naples Zoo, 2.) West of Bear's Paw Golf Course, and 3.) West of Naples Airport.

South of Naples Zoo (burrows flagged with orange flagging tape)

Surveys were conducted south of Naples Zoo by Melissa Hennig, Mary Toro, and Markus Hennig on March 5, 2013 and March 6, 2013. Distance between transects varied between 6 feet and 30 feet depending on habitat. Tall, monocultures of guineagrass warranted a distance of no more than 6 feet between transects, while the mowed lawn within the northern portion of the site allowed for 30 feet between transects. A total of 24 burrows were flagged south of the Naples Zoo: 14 potentially occupied, 6 abandoned, and 4 "non-gopher tortoise" round.

West of Bear's Paw Golf Course (burrows flagged with pink flagging tape)

Surveys were conducted west of Bear's Paw Golf Course by Melissa Hennig, Mary Toro, and Markus Hennig on April 3, 2013 and April 5, 2013. Prior to the surveys, laborers under a Collier County debris removal contract were hired to hand multiple 62 foot long transects across the entire length of the trail footprint (12 feet) and 25 feet on either side of the trail footprint (50 feet). Transects allowed for a complete survey of otherwise impenetrable downy rosemyrtle. Burrows outside of the identified trail footprint and buffer were GPS'd and flagged so that field location will possible when temporary exclusion fencing is installed prior to tortoise relocation. A total of 91 burrows were flagged west of Bear's Paw Golf Course: 40 potentially occupied, 33 abandoned, and 18 potentially occupied outside of the proposed development activities. Eighteen of the potentially occupied burrows were outside of the identified trail footprint and buffer. These burrows will not be used to determine the number of tortoises to be relocated.

West of Naples Airport (burrows flagged with pink flagging tape)

Surveys were conducted west of Naples Airport by Melissa Hennig and Alexandra Sulecki on April 16, 2013. Distance between transects was approximately 6 feet throughout the area. All potential gopher tortoise habitat was surveyed within this area because field placement of the trail will be required. It will be assumed for tortoise relocation estimates that all potentially occupied burrows within this area will be excavated. A total of 16 burrows were flagged west of the Naples Airport: 11 potentially occupied, 3 abandoned, and 2 “non-gopher tortoise” round.

Results:

65 potentially occupied (PO)

42 abandoned

24 questionable or outside development

Estimate of tortoises to be relocated - 65 PO / 2 = **33 tortoises**

Collier County Gordon River Greenway Gopher Tortoise Burrow Survey Results

West of River and South of Zoo - Kayak Node and Parking
Surveys conducted 3/5/13 and 3/6/13

Burrow #	Lat	Long	Status	Size Class
1	26.166669	-81.790106	PO	Adult
2	26.166882	-81.790104	A	Adult
3	26.166683	-81.790048	PO	Adult
4	26.167037	-81.790058	PO	Adult
5	26.167144	-81.789998	PO	Adult
6	26.166919	-81.789994	PO	Adult
7	26.167326	-81.789903	A	Adult
8	26.167281	-81.789840	PO	Adult
9	26.167140	-81.789813	PO	Adult
10	26.166695	-81.789812	A	Adult
11	26.167231	-81.789740	PO	Adult
12	26.167369	-81.789746	PO	Adult
13	26.167336	-81.789362	A	Adult
14	26.167363	-81.789088	PO - round burrow	Adult
15	26.167159	-81.789056	PO	Adult
16	26.167253	-81.789060	PO	Adult
17	26.167253	-81.788014	PO - round burrow	Adult
18	26.167263	-81.788233	PO - round burrow	Adult
19	26.167408	-81.788421	PO - round burrow	Adult
20	26.167486	-81.787182	A	Adult
21	No GPS read - burrow is 70' NE of burrow		PO	Adult
22	No GPS read - burrow is 40' South of pt. b		PO	Adult
	26.167686	-81.787550		
23	No GPS read - burrow is 25' East of burrov		PO	Adult
24	26.167442	-81.787769	A	Adult

East of River and West of Bear's Paw Golf Course
Surveys conducted 4/3/13 and 4/5/13

Burrow #	Lat	Long	Status	Size Class
1	26.170028	-81.783449	A	Adult
2	26.170002	-81.783500	A	Adult
3	26.169853	-81.783437	A	Adult
4	26.169464	-81.783448	A	Adult
5	26.169381	-81.783443	PO	Adult
6	26.169368	-81.783403	A	Adult
7	26.169302	-81.783681	A	Adult
8	26.169394	-81.783454	PO - outside	Adult
9	26.169215	-81.783493	A	Adult
10	26.169175	-81.783560	A	Adult
11	26.169170	-81.783565	PO	Adult

Collier County Gordon River Greenway Gopher Tortoise Burrow Survey Results

East of River and West of Bear's Paw Golf Course cont'd
Surveys conducted 4/3/13 and 4/5/13

Burrow #	Lat	Long	Status	Size Class
12	26.169065	-81.783785	A	Adult
13	26.169000	-81.783739	A	Adult
14	26.168966	-81.783708	A	Adult
15	26.168918	-81.783613	PO - outside	Adult
16	26.168629	-81.783734	PO - outside	Adult
17	26.168671	-81.784050	A	Adult
18	26.168679	-81.783955	PO	Adult
19	26.168708	-81.783997	PO	Adult
20	26.168588	-81.784042	PO	Adult
21	26.168626	-81.784122	A	Adult
22	26.168458	-81.784018	A	Adult
23	26.168443	-81.784083	A	Adult
24	26.168334	-81.784060	A	Adult
25	26.168240	-81.784159	A	Adult
26	26.168292	-81.784206	PO	Adult
27	26.168167	-81.784105	PO - outside	Adult
28	26.168062	-81.784276	PO	Adult
29	26.168037	-81.784194	PO - outside	Adult
30	26.168022	-81.784189	PO - outside	Adult
31	26.167943	-81.784219	PO - outside	Adult
32	26.167971	-81.784337	A	Adult
33	26.167920	-81.784403	PO	Adult
34	26.167387	-81.784398	PO	Adult
35	26.167399	-81.784416	PO	Adult
36	26.167378	-81.784484	PO	Adult
37	26.167357	-81.784455	PO	Adult
38	26.167309	-81.784475	PO	Adult
39	26.167138	-81.784480	PO - outside	Adult
40	26.167138	-81.784707	A	Adult
41	26.166654	-81.784674	PO	Adult
42	26.166654	-81.784674	PO	Adult
43	26.166574	-81.784713	A	Adult
44	26.166518	-81.784697	A	Adult
45	26.166519	-81.784679	PO	Adult
46	26.166517	-81.784643	PO	Adult
47	26.166484	-81.784589	PO	Adult
48	26.166450	-81.784665	PO	Adult
49	26.166470	-81.784736	PO	Adult
50	26.166404	-81.784724	PO	Adult
51	26.166183	-81.784849	PO - outside	Adult
52	26.166288	-81.784972	A	Adult

Collier County Gordon River Greenway Gopher Tortoise Burrow Survey Results

East of River and West of Bear's Paw Golf Course cont'd
Surveys conducted 4/3/13 and 4/5/13

Burrow #	Lat	Long	Status	Size Class
53	26.166054	-81.784913	PO - outside	Adult
54	26.166089	-81.784984	PO	Adult
55	26.165829	-81.785059	A	Adult
56	26.165792	-81.785165	A	Adult
57	26.165623	-81.785274	PO	Adult
58	26.165226	-81.785259	PO	Adult
59	26.165186	-81.785221	PO	Adult
60	26.165036	-81.785226	PO	Adult
61	26.165034	-81.785160	PO	Adult
62	26.165016	-81.785303	PO	Adult
63	26.164916	-81.785168	PO	Adult
64	26.164884	-81.785092	PO - outside	Adult
65	26.164859	-81.785117	PO - outside	Adult
66	26.164854	-81.785104	PO - outside	Adult
67	26.164840	-81.785122	PO - outside	Adult
68	26.164851	-81.785080	PO - outside	Adult
69	26.164742	-81.785151	PO	Adult
70	no GPS reading		PO	Adult
71	26.164381	-81.785276	PO	Adult
72	26.164273	-81.785259	PO - outside	Adult
73	26.164152	-81.785410	PO	Adult
74	26.163995	-81.785555	PO	Adult
75	26.163743	-81.785528	PO	Adult
76	26.163758	-81.785673	PO	Adult
77	26.163734	-81.785668	PO	Adult
78	26.163481	-81.785407	A	Adult
79	26.163292	-81.785268	PO - outside	Adult
80	26.163188	-81.785370	A	Adult
81	26.163226	-81.785247	A	Adult
82	26.163151	-81.785308	PO	Adult
83	26.163089	-81.785339	A	Adult
84	26.163094	-81.785080	PO - outside	Adult
85	26.163081	-81.785187	A	Adult
86	26.163034	-81.785218	A	Adult
87	26.163022	-81.785153	A	Adult
88	26.163821	-81.785609	PO	Adult
89	no GPS reading		PO	Adult
90	no GPS reading		A	Adult
91	no GPS reading		A	Adult

Collier County Gordon River Greenway Gopher Tortoise Burrow Survey Results

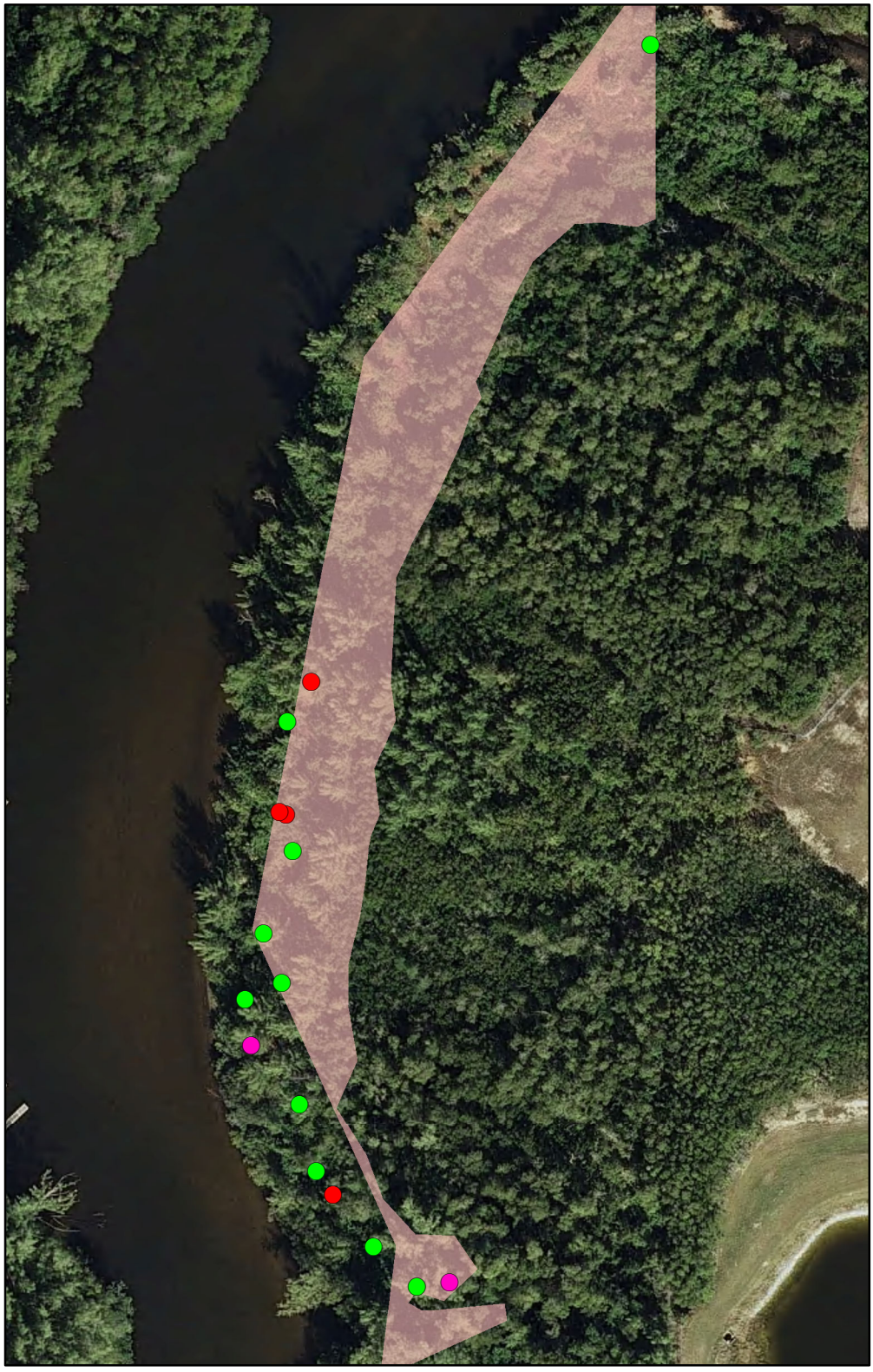
East of River and West of Naples Airport
Survey conducted 4/16/13

Burrow #	Lat	Long	Status	Size Class
1	26.158811	-81.783949	PO	Adult
2	26.158717	-81.783996	PO	Adult
3	26.158451	-81.783981	PO	Adult
4	26.158533	-81.784006	A	Adult
5	26.158533	-81.784006	A	Adult
6	26.158277	-81.784048	PO	Adult
7	26.158178	-81.784004	PO	Adult
8	26.158047	-81.784075	PO - round burrow	Adult
9	26.158141	-81.784088	PO	Adult
10	26.157918	-81.783966	PO	Adult
11	26.157738	-81.783885	A	Adult
12	26.157786	-81.783923	PO	Adult
13	26.157639	-81.783792	PO	Adult
14	26.160129	-81.783174	PO	Adult
15	26.157538	-81.783711	PO	Adult
16	26.157555	-81.783613	PO - may not be gopher tortoise	Adult

TOTALS:

	Potentially Occupied	Abandoned	Questionable/Outside development	**TOTAL**
Zoo	14	6	4	24
Bear's Paw	40	33	18	91
Airport	11	3	2	16
TOTAL	65	42	24	131

Gopher Tortoise Burrow Survey West of Airport - April 17, 2013



N
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Legend

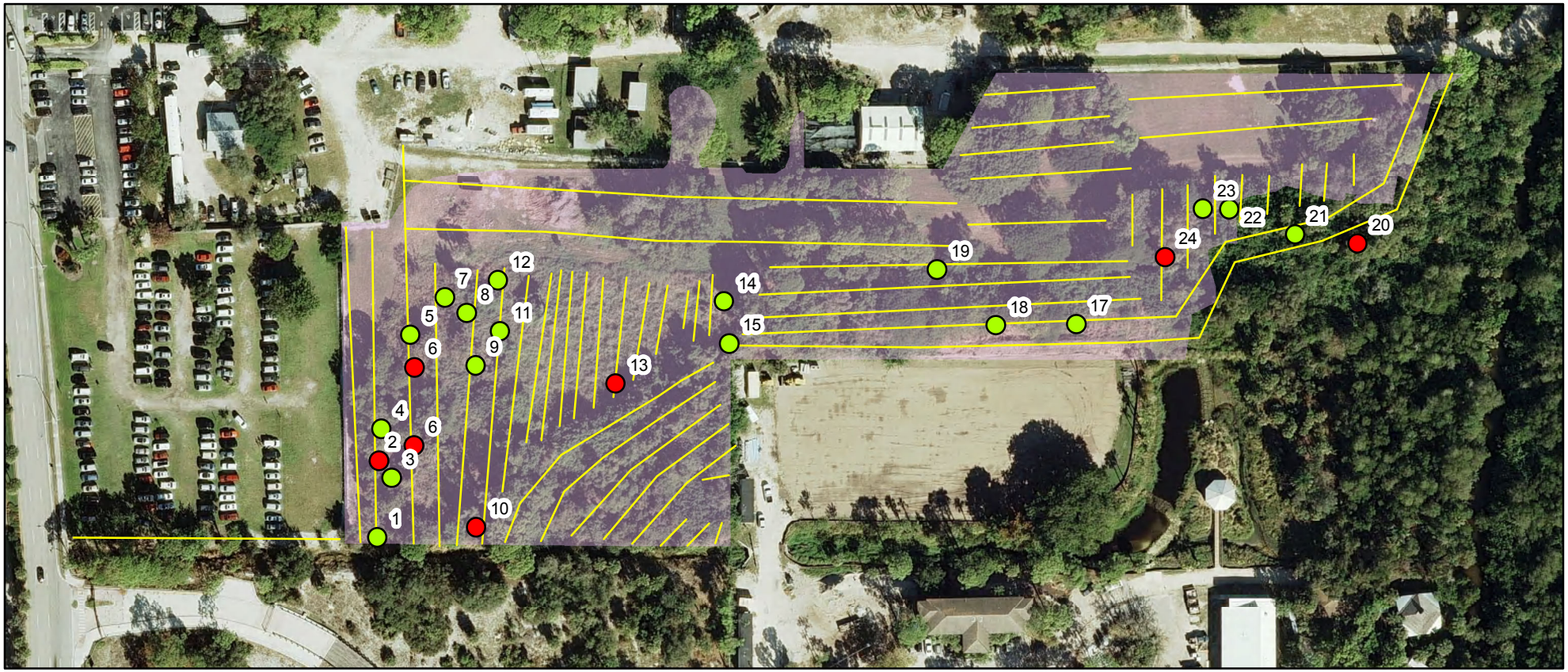
Spoil **Gopher Tortoise Burrows**

- Potentially Occupied round burrow - 2
- Abandoned - 4 burrows
- Potentially Occupied - 10 burrows

CONSERVATION COLLIER
For Present and Future Generations

0 100 200 Feet

March 2013 Gopher Tortoise Burrow Survey South of Zoo



Legend

- Abandoned
- Potentially Occupied
- Gopher Tortoise Burrow Habitat
- Transects

N
W E
S

0 250 500 Feet

CONSERVATION COLLIER
For Present and Future Generations

PEDESTRIAN BRIDGE CROSSING FEASIBILITY STUDY

Freedom Park to Gordon River Greenway Park Over Golden Gate Parkway







Prepared for

Collier County, Florida

Project No. 60109.2

Collier County

ch2m

September 2015

PEDESTRIAN BRIDGE CROSSING FEASIBILITY STUDY

FREEDOM PARK TO GORDON RIVER GREENWAY PARK OVER GOLDEN GATE PARKWAY



Prepared for

Collier County, Florida

Contract No: 13-6164 (ST)

September 2015

ch2m

BHUSHAN A. GODBOLE
LICENSE
No 54325
9/24/15
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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EXECUTIVE SUMMARY

The Collier County Growth Management Department, Transportation Engineering Division has initiated a feasibility study for a pedestrian crossing across Golden Gate Parkway in Naples, Florida. The proposed crossing will provide pedestrians with a convenient, safe route to traverse between Freedom Park, located on the north side of Golden Gate Parkway and Gordon River Greenway Park located on the south side of Golden Gate Parkway, just east of Freedom Park. The main objective of the study is to identify potential crossing locations, evaluate pedestrian crossing alternatives, define site constraints (geometry, utilities, environmental, etc.), within the project vicinity and prepare preliminary cost data. This report will be used by the county staff to evaluate crossing options and identify funding needs to advance the project to the next stage.

Justification of the selected crossing option in the subsequent phase will need to carefully weigh the benefit and cost, combined with the level of anticipated use and potential safety considerations. The proposed location shall also address any safety and sight distance issues for vehicular traffic on Golden Gate Parkway.

The primary benefit of the project will be to provide a safe crossing of Golden Gate Parkway. Four different location alternatives were compared for the purpose of this study (Ref. Exhibit 1). Alternative location 3 is midway between Freedom Park and Gordon River Greenway and is considered as the best possible location for further consideration.

The focus of this study was to evaluate overpass, underpass and on-street crossing alternatives. The overpass option considered varying levels of aesthetics and pedestrian access features at each end (Ref. Exhibit 2). The potential layout consists of a stair and/or switch-back ramp access at the north terminus and a stair/elevator tower at the south terminus to minimize environmental impacts (Ref. Exhibit 3). Constructability & Maintenance of Traffic (MOT) is greatly simplified due to clear spanning of Golden Gate Parkway. Powerlines along the north side of Golden Gate Parkway will be impacted and three transmission poles will potentially need to be relocated further north to accommodate an overpass alternative.

Due to drainage, geometric, functional, constructability, MOT, cost/benefit and a safety concern an underpass will need to be thoroughly scrutinized as part of subsequent phase of the project in conjunction with all the stakeholders (Ref. Exhibit 4).

An on-street pedestrian crossing option (signal and crosswalk) provides an economical solution and one location was explored at Freedom Park as part of this study. (Ref. Exhibit 5)

An overpass concept shall be carefully evaluated in conjunction with the on-street alternative based on anticipated level of pedestrian characteristics, use and available resources. Three varying degrees of aesthetics and accessibility options for an overpass alternative have been shown in Exhibits 6 thru 8. The probable construction cost for the overpass options range from 2.0 M to 5.0 M, whereas the on-street crossing provides the most economical solution at approx. 200K.

1.0 PROJECT DESCRIPTION

The project site is located along the stretch of Golden Gate Parkway between Freedom Park (north side) and Gordon River Greenway (south side) in Naples, Florida. Golden Gate Parkway is owned and maintained by Collier County. The adjacent parcel to the south was recently purchased by Moorings, Inc. in April of 2014. The parcel to the north is owned by Collier County. Additional stakeholders include the City of Naples, which owns the sewer and water and Florida Power and Light (FPL) which owns the overhead electric in the vicinity of the project. Teco Gas, Century Link Cable, Summit Broadband, Comcast, FPL Fibernet, and Collier County own various utilities in the area.

Potential wetlands exist along the southern and northern edge of Golden Gate Parkway. Bridge Culvert No. 030172 is also in close proximity of the proposed project. The Naples Zoo at Caribbean Gardens is immediately south of Gordon River Greenway. Naples High School and Coastland Mall are located just west of the project location. Figures 1 & 2 provide location map and vicinity details.

1.1 Project Location

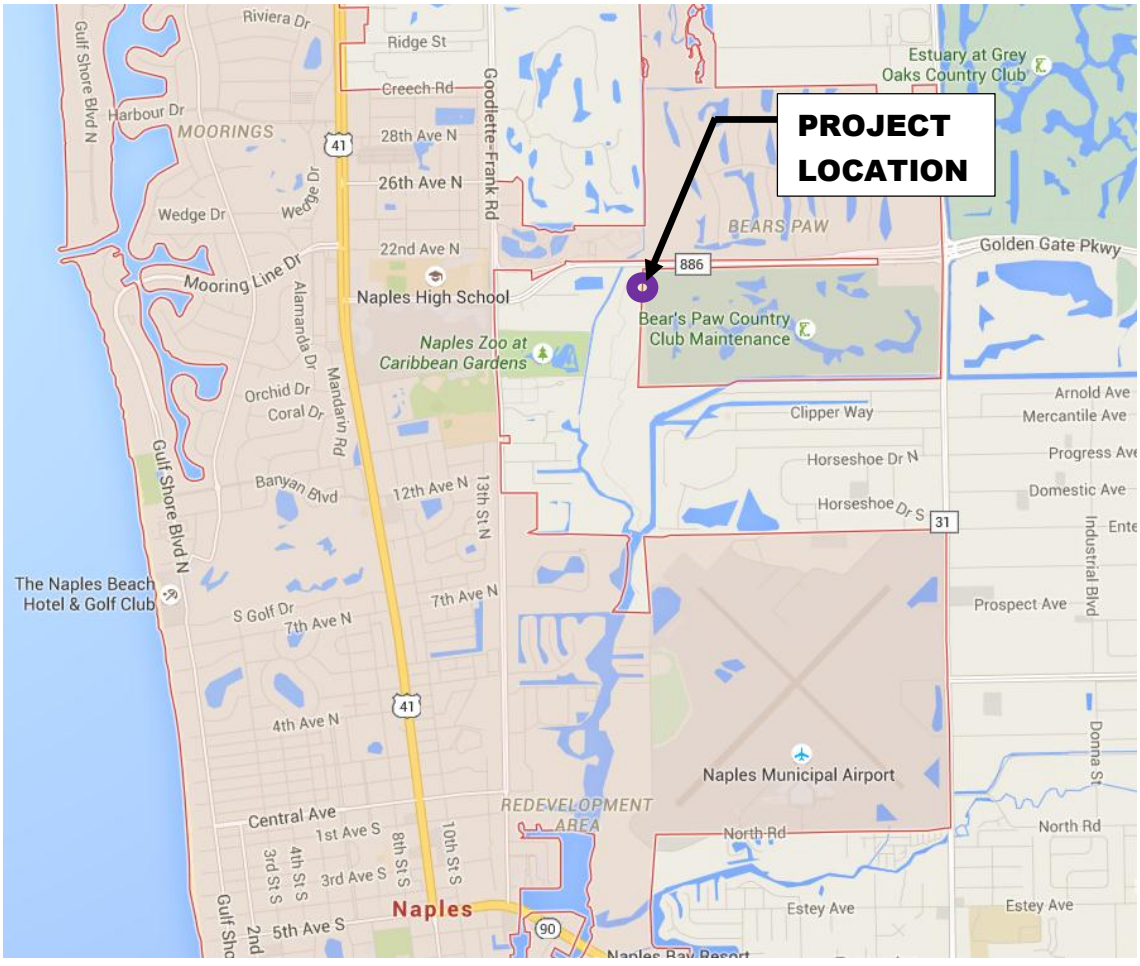


FIG. 1 – Project Location & Vicinity Map



FIG. 2 – Project Vicinity Aerial View

1.2 Project Objectives

This project is being explored primarily to provide a safe crossing of Golden Gate Parkway for pedestrians and bicyclists traversing from Freedom Park to the Gordon River Greenway Park.

1.2.1 Background, Justification and Benefits

The Collier County Growth Management Department, Transportation Engineering Division has initiated a feasibility study for a pedestrian crossing across Golden Gate Parkway in Naples, Florida. The proposed crossing will provide pedestrians with a convenient, safe route to traverse between Freedom Park, located on the north side of Golden Gate Parkway and Gordon River Greenway Park located on the south side of Golden Gate Parkway, just east of Freedom Park. The main objective of the study is to identify potential crossing locations, evaluate pedestrian crossing alternatives, define site constraints (geometry, utilities, environmental, etc.), within the project vicinity and prepare preliminary cost data. This report will be used by staff to evaluate crossing options and identify funding needs to advance the project to the next stage.

Justification of the selected crossing option in the subsequent phase will need to carefully weigh the benefit and cost, combined with the level of anticipated use and potential safety considerations. The proposed location shall also address any safety and sight distance issues for vehicular traffic on Golden Gate Parkway.

1.2.2 Feasibility Study Objectives

The objective of this feasibility study is to identify the opportunities and obstacles related to constructing a pedestrian/bicycle crossing of Golden Gate Parkway between Freedom Park and Gordon River Greenway Park. The study will focus on a pedestrian overpass (bridge), pedestrian underpass (tunnel) and an "on-street" crossing (pedestrian signal). The feasibility study provides a cursory review of the existing conditions and features within the study limits. The feasibility study developed preliminary construction costs for the viable alternatives for budget purposes.

This feasibility study and alternatives analysis provided will form the basis for further refinement and development of alternatives during the subsequent phases of the project.

2.0 EXISTING CONDITIONS

2.1 Golden Gate Parkway

The segment of Golden Gate Parkway between Freedom Park and Gordon River Greenway is a 6-lane facility classified as a divided urban arterial Class 1a based on Collier County's 2035 Needs Plan Level of Service (Table 10-4). The level of services is designated as "C" with an average annual daily traffic count (AADT) of 52,773. The roadway is posted 35 mph for westbound traffic and 45 mph for eastbound traffic. The Typical Section consists of three 12 foot wide travel lanes in each direction and a 12 foot auxiliary lane with right turn movement into Freedom Park as well as Gordon River Greenway Park and a 22 foot raised median. The raised median accommodates directional left turn lanes into the Parks. Stormwater runoff is conveyed by curb and gutter into a closed drainage system.



FIG. 3 - Looking West towards Freedom Park



FIG. 4 - Looking East towards Gordon River Greenway

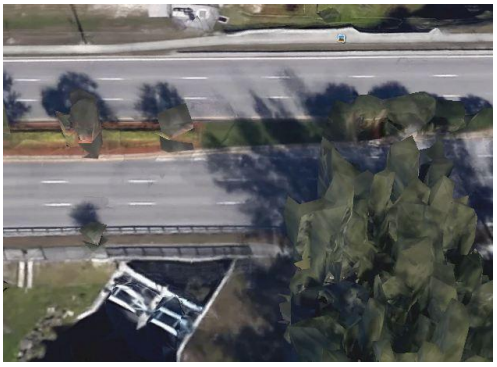


FIG. 5 –Bridge Culvert #030172



FIG. 6 – Control Structure to the South

Bridge Culvert No. 030172 conveys Gordon River flow under Golden Gate Parkway at an approximate 29 degree skew. According to the available data, it is a 49.5 feet long multi-cell concrete box culvert structure constructed in 1963. It is listed as structurally adequate, has a sufficiency rating of 72.3 and is not posted for any load restrictions. A water control structure with Amil-gates exists on the south side. A guardrail exists at the approach end of this structure along Golden Gate Parkway for vehicular protection. Any proposed pedestrian crossing will need to minimize any impacts to this structure.

2.2 Public Transit

The Golden Gate Parkway – Goodlette Frank Road area is currently being served by Collier Rapid Transit (CAT) Route 25, shown in Lime Green, in Figure 5. A bus stop is located next to the westbound auxiliary lane into Freedom Park and will have to be accommodated as part of proposed improvements. Any proposed changes to the current bus stop location will have to be coordinated.

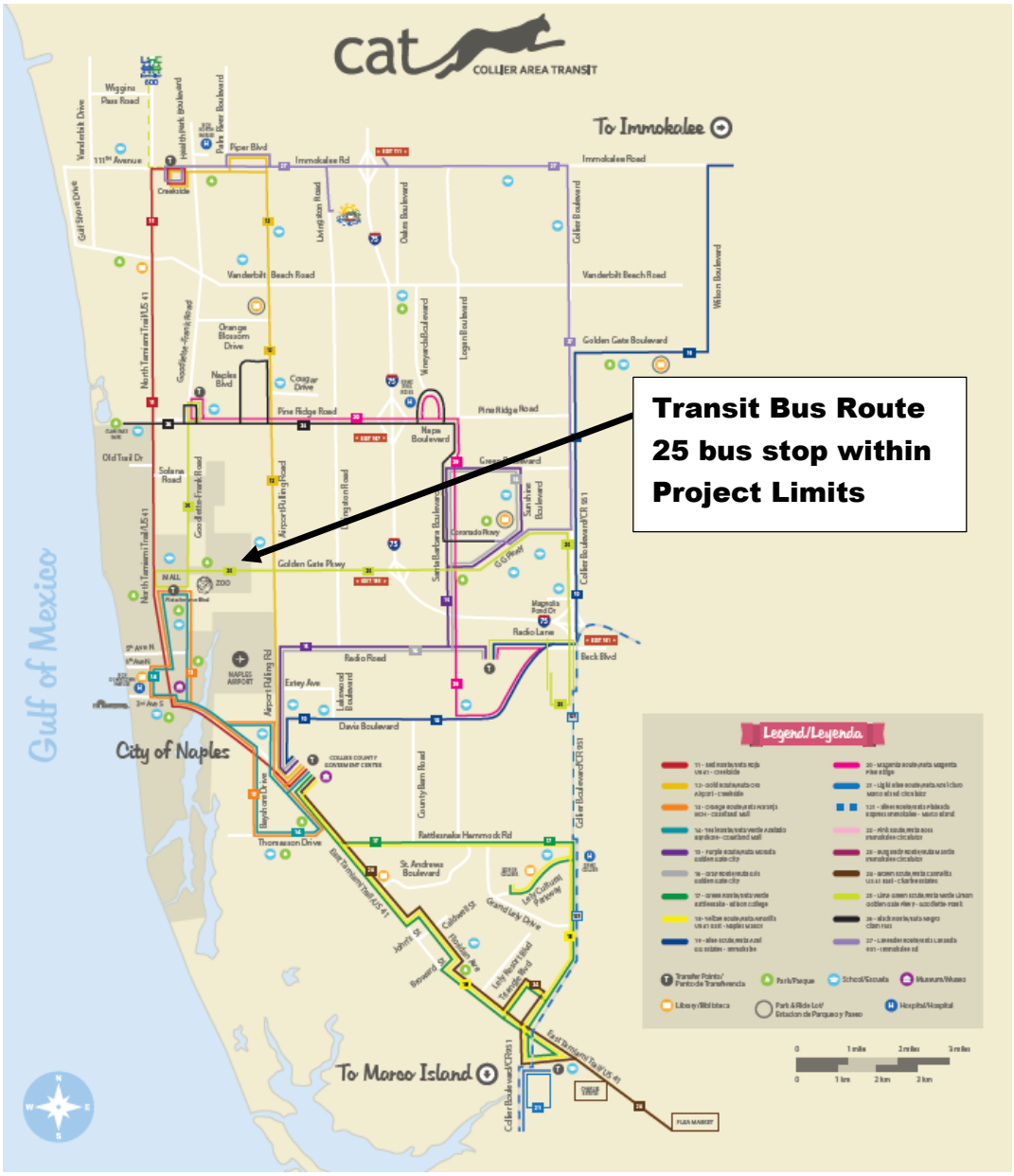


FIG. 7 - Collier Area Transit (CAT) Bus Route Map

2.3 Pedestrian/Sidewalk Characteristics

A five (5) foot sidewalk and eight (8) foot buffer area exists adjacent to the south side of Golden Gate Blvd as shown in Fig. 8, while a six (6) foot sidewalk exists adjacent to the north side of Golden Gate Parkway as shown in Fig 9. Pedestrian use can be characterized as moderate.

Currently there are no designated pedestrian crossings within the project limits.

There are no designated bike lanes and bikers currently use the sidewalk as seen in Fig 8. During the subsequent phase of the project, additional information including pedestrian and bicycle counts, mobility patterns and user demographics will be further analyzed.



FIG. 8 - South Sidewalk



FIG. 9 - North Sidewalk

2.4 Drainage

The urban roadway section conveys stormwater by curb and gutter to a series of inlets that receive runoff water from Golden Gate Parkway and conveys it through an underground system. Feasible alternatives will have minimal effect on the existing stormwater facilities. Although no new impervious pavement area is being added to the corridor, impacts (however minimal) to adjacent vegetation (uplands/wetlands) may require Permitting Agency (SFWMD – USACE) reviews.

2.5 Geotechnical Conditions

A limited desk-analysis was conducted to assess anticipated soil conditions. Soils in this area are expected to be quartz sand with trace clay and shell to depths ranging from 5 to 10 feet below existing ground surface. Shallow limestone of the Tamiami formation can be expected below the surficial sands and extends to over 100 feet deep. The top of the limestone is very dense and locally referred to as caprock. Seasonal high ground water is assumed to be 2-3 feet below existing pavement subbase.

For purposes of this report, the following assumptions were made in order to develop "Order of Magnitude" costs.

- The shallow limestone caprock may/will require pre-drilling but underlying limestone layers are suitable for conventional driven pile foundations or drilled shafts.
- Caprock is difficult and costly to excavate which makes an underpass option less viable.

A full geotechnical investigation will be performed during subsequent phases of the project.

2.6 Utilities

A limited site review was conducted to identify utilities readily visible within the project area. In addition, a Sunshine State One Call of Florida (SSOCOF), design ticket was placed to identify members of SSOCOF within the vicinity of the design project. (See Appendix D).

Potentially Impacted Utilities:

- Florida Power and Light (Fig. 10)

High voltage Transmission lines exist along the north side of Golden Gate Parkway. Additionally, a distribution line is also present with a lower vertical clearance. The distribution line pole discontinues at the start of the Freedom Park auxiliary lane and appears to go underground further west. Any overpass option will require relocations. Potential signal poles will need to be coordinated with FPL to ensure proper OSHA clearance is maintained.



FIG. 10 - Powerlines

Other utilities within project area include:

- Florida Power and Light Fibernet LLC Fiber (High speed fiber optic network to provide telecommunication support.)
- Collier County Traffic Operations Section (Electrical and Fiber)
- City of Naples (Sewer and Water)
- Comcast (CATV)
- Summit Broadband Inc. (Fiber Optic)
- Teco Peoples Gas (Gas)
- Century Link Naples (Phone & Fiber Optic)



FIG. 11 – Observed Utility Marker

More detailed investigations, field surveys and utility locations will need to be accomplished during the next phase of the project.

3.0 DESIGN CRITERIA

The proposed pedestrian overpass will be considered as a shared used path and will be 12 ft wide as required by FDOT PPM Section 8.7.1

3.1 Horizontal Clearances

This segment of Golden Gate Parkway has a posted speed of 45 miles per hour (mph) eastbound and 35 mph westbound relative to the potential pedestrian crossing location.

According to FDOT PPM Table 2.11.6, for design speed ≤ 45 mph, a minimum lateral offset of 16 feet is required from the edge of the outside travel lane to any bridge pier or abutment and 6 feet minimum from the traffic (auxiliary) lane. The existing median width (approx. 22 feet) is not sufficient to meet the lateral offset requirements, therefore vehicular protection will be required for any piers constructed within the median.



FIG. 12 - Eastbound speed limit Sign



FIG. 13- Westbound speed limit Sign (heading into the left curve ahead)

3.2 Vertical Clearances

According to FDOT PPM Table 2.10.1, the minimum required vertical clearance for a pedestrian overpass is 17'-6". Additionally according to FDOT PPM Figure 8.7.1, the minimum headroom/under clearance for pedestrians shall be 8'-0".

3.3 Stopping Line of Sight Distance

There is no signal in the immediate vicinity of the proposed pedestrian crossing, therefore the proposed improvement is not anticipated to adversely impact stopping sight distance with the exception of Alternate Location 1.

3.4 Accessibility

All features must comply with the Americans with Disability Act (ADA) requirements for accessibility per FDOT Structures Manual.

3.5 Elevators

Elevators must comply with ADA and ASME A17.1-latest safety code for Elevators and Escalators subject to further analysis in the subsequent phase of the project.

3.6 Aesthetics

Various levels of aesthetics will be explored as the potential project progresses. This will include structure type and integration of various elements for enhanced aesthetics. Landscaping and lighting can also provide significant enhancements and will have to be incorporated as desired. Aesthetic lighting can have a dramatic effect as shown below.



Figure 14 Nighttime View of Dana Point Bridge, CA

4.0 Alternatives Analysis

4.1 Location Alternatives

Four potential locations were considered for the purpose of this feasibility study and are depicted in Exhibit 1. A variety of factors were considered in determining these location alternatives.

These four pedestrian crossing locations provide varying degrees of access points and have differing benefits/impacts based on constructability, environmental impact, functionality and projected visual impact to pedestrians, bicyclist and the traveling public.

Table 1: Alternative Locations Comparison

Location Alternative	Advantages	Disadvantages	Remark
Alt. 1	Close to Freedom Park.	Sight distance issues due to curve to the west and also existing Freedom Park. Farthest from Gordon River Greenway. Wetland impacts.	
Alt. 2	Close to Freedom Park. Improved sight conditions relative to Alt. 1	Distance from Gordon River Greenway Park. Wetland impacts.	
Alt. 3	Splits the distance between Freedom Park and Gordon River Greenway Park. Provides opportunity to connect crossing pedestrian traffic to the Freedom Park boardwalk network. Provides minimal crossing distance to traverse the roadway section. Equal distance between parks. Aesthetic placement for landmark crossing.	Proximity to the existing Bridge Culvert and water control structure to the south. Wetland impact.	**Recommended Location**
Alt. 4	Proximity to Gordon River Greenway Park.	Farthest from Freedom Park. Connection to Gordon River Boardwalk will require crossing Gordon River. Sight issue for westbound traffic exiting from Gordon River Greenway. Wetland Impacts.	

Based on the preliminary comparison Alternative Location 3 will be considered for the purposes of this feasibility study.

4.2 Crossing Alternatives

The focus of this feasibility study was to compare the following three crossing alternatives

- Pedestrian Overpass (Ref. to Exhibit 3)
- Pedestrian Underpass (Ref. Exhibit 4)
- On-Street Crossing (Ref. Exhibit 5)

The Pedestrian Overpass and Underpass were considered at Location 3 discussed above, whereas the on-street crossing alternatives were considered near the entrances to Freedom Park and Gordon River Greenway. The following is a discussion of these various options.

4.2.1 Pedestrian Overpass

Access/Approach Configuration

The Overpass Alternative at location 3 has adequate room to place ADA compliant switch-back access ramps at the north approach but a stair/elevator tower will be needed at the south approach, to minimize wetland impacts.

Stairs - Cast-in-place or precast concrete stairs contained within an access tower with a roof are envisioned for the proposed project. Use of steel stairs is not considered desirable due to the outdoor nature of the project.

Elevator - An elevator shaft with a lift to the overpass level. This structure would require a mechanical room for housing the elevator hydraulic and electrical equipment in conjunction with the elevator and elevator shaft structure. The mechanical room would be located directly under the end platform and its roof would serve as the landing for the elevator and stair terminus. The use of elevators does introduce some maintenance needs. Additionally, stairs would provide access from ground level in the event of power failure or for access for those wishing to walk.

Ramps - These are commonly constructed with concrete pier columns and cap with concrete walkway, with handrail and fencing. This option for a ramp is a more traditional access for pedestrian overpasses. The decking is formed and poured in place. MSE wall can be utilized for ramps but creates edifices which tend to block the open view and do not appear desirable at the proposed crossing.

Three different Construction Types have been evaluated for the pedestrian bridge crossing, based on review of similar pedestrian crossings, which satisfy varying

degree of aesthetic needs for the proposed structure. (Ref. to Exhibit 2 and 6 thru 9)

Utilitarian Aesthetics (FDOT Level 1).

This type of bridge will consist of conventional prestressed concrete girder type structure such as Florida I-Beams. A single as well as two span structure is possible. A two-span span structure will allow use of shallower beams but will introduce a median pier which will be in the clear zone and will require vehicular protection. The concrete deck would be poured in place with curbing, fencing, and railing system. The approach ramp to the north will provide ADA compliant accessibility, whereas the stair/elevator tower will provide ADA compliant access to the south.

This option will be consistent with FDOT Aesthetic level 1 which is defined as,

Level One: Consists of cosmetic improvements to conventional Department bridge types, such as the use of color pigments in the concrete, texturing the surfaces, modifications to fascia walls, beams, and surfaces, or more pleasing shapes for columns and/or caps.

Mid-level Aesthetics (FDOT Level 2)

This type of bridge will consist of a prefabricated or custom designed Steel truss type structure. A poured in place concrete deck with railing and fencing will be placed within the through box-type truss. This structure would be single span and will not require a pier in the median.

The approach ramp to the north will provide ADA compliant accessibility, whereas the stair/elevator tower will provide ADA compliant access to the south. The access tower to the north will be slightly different than the utilitarian option in that it will also have a stair option and both the towers at each end will have consistent looks with a similar footprint and roof structure for enhanced aesthetics. Steel truss can be painted based on the selected aesthetic theme.

This option will be consistent with FDOT Aesthetic level 2 which is defined as,

Level Two: The emphasis is on full integration of efficiency, economy and elegance in all bridge components and the structure as a whole. Consideration should be given to structural systems that are inherently more pleasing, such as hammerhead or "T" shaped piers, oval or polygonal shaped columns, integral caps, piers in lieu of bents, smooth transitions at superstructure depth change locations, box-type superstructures, concealed drain pipes, conduits and utilities, etc.

Signature Aesthetics (FDOT Level 3)

This alternative will involve architectural input for carefully integrating the entire theme with careful attention to the neighborhood and an overall fit in the

surroundings including use of landscaping and lighting. This type of bridge can consist of a signature concrete option or some iconic structure using a combination of arch shape and cable supported structure. This structure would be single span and will not require a pier in the median.

The approach ramp to the north will provide ADA compliant accessibility, whereas the stair/elevator tower will provide ADA compliant access to the south. The access tower will serve similar purpose as the Mid-level option but will complement the finish treatments on the overpass superstructure while the entire overpass will showcase an integrated theme and will provide highest level of aesthetic appeal.

This option will be consistent with FDOT Aesthetic level 3 which is defined as,

Level Three: The emphasis in this level applies more to the overall aesthetics when passing through or under an interchange or at other sites such as historic or highly urbanized areas where landscaping or unique neighborhood features must be considered. The bridge itself shall comply with Level Two requirements. This level of work may require, at the County's option, a subconsultant (architect to consider adjacent building styles, and landscape themes) with the necessary expertise and credentials to perform the desired work

4.2.2 Pedestrian Underpass

The desirable size of an underpass is 14 ft wide and 10 ft high as per FDOT Plans Preparation Manual Section 8.6.6. The seasonal high groundwater is likely 2 or 3 feet below the pavement sub-base and is subject to verification of assumptions from the original roadway design and groundwater data. The underpass will have to be partially depressed below the seasonal high groundwater table in order to minimize raising of Golden Gate Boulevard. An underdrain and pumping system will be required to keep the structure dry and functional at all times. This raises a pedestrian safety and maintenance concern. It is envisioned that Golden Gate Parkway profile will have to be raised approximately 10 ft with a crest vertical curve to accommodate placement of an FDOT cast-in-place concrete box culvert sections with considerations for waterstops (Ref. to Exhibit 2).

Given the fact that the roadway profile will need to be raised, locating the underpass near alternative location 3 will necessitate reconstructing the at-grade connections at access drives to Freedom Park and Gordon River Greenway Entrances. This may also necessitate the replacement of Bridge Culvert No. 030172 which conveys the Gordon River under Golden Gate Parkway.

Moving the underpass to location 4 will help with the connection to Freedom Park but will be too close to Gordon River Greenway.

According to FDOT PPM Section 8.7.1, Pedestrian underpasses are generally undesirable for safety reasons. Local law enforcement personnel should also be consulted to assure public safety, emergency accessibility in the case of an underpass option.

A conceptual underpass layout which was evaluated is shown in Exhibit 4.

4.2.3 On-Street Pedestrian Crossing

FDOT provides special signals to indicate when pedestrians may safely cross. These may be "ped-heads" attached to conventional traffic signals or pedestrian-only signals such as the "Rapid Rectangular Flashing Beacon" or "HAWK" signals." Rapid Rectangular Flashing Beacons may be inappropriate for this situation because the location near a curve, number of lanes and traffic volume. Coordination with the County to investigate opportunities to employ Pedestrian Hybrid Beacon "HAWK" signals or additional traffic signal options should be considered.



FIG. 15- Example of Hawk Treatment

4.3 Other Considerations

4.3.1 Constructability & Maintenance of Traffic (MOT)

The study included a limited analysis of MOT requirements for each option. The overpass option primarily involves construction of the access towers and ramps and bridge abutments which are outside of the Golden Gate Parkway typical section. There appears to be adequate room near each access to position a conventional crawler crane for any necessary pile driving and foundation work. Hydraulic cranes can be subsequently used to finish the poured in place ramp and tower construction. Bridge superstructure erection can be accomplished by delivering the beams along Golden Gate Parkway and using two cranes to pick the superstructure with nighttime closures. Any need for detour for this limited closure and associated traffic impact will have to be evaluated in the subsequent phase of the project.

The underpass option will create the biggest challenge and will have the greatest impact on the existing 6-lane traffic. Raising Golden Gate Parkway will have to be accomplished in two or three phases by re-constructing one half at a time which makes it impossible to maintain 6-lanes of traffic and is considered prohibitive.

4.3.2 Impacts

The proposed crossing will impact potential wetlands to the south. The exact delineation of jurisdictional wetlands is unknown at this time and will need to be investigated in the subsequent phase of the project. Use of an elevator tower in-lieu of a switch-back ramp aims to minimize these impacts to the south as discussed earlier.

The proposed crossing will also have drainage and utility impacts. The biggest impact will be to the high voltage transmission lines to the north, as discussed earlier. At a minimum three of the transmission poles will need to be relocated to the north to facilitate construction of the north end of the bridge crossing. Impact to the lower voltage distribution lines can be minimized at the selected location. Detailed analyses and refinement of ramp, elevator and stair tower footprints will need to be conducted after more complete utility information is collected in the subsequent phase of the project.

4.4 Alternative Crossings Comparison

The following table provides a comparison of the three crossing options using a qualitative grading criteria described below. It is evident that the Underpass option is not desirable. The overpass option provides an aesthetic and safer crossing alternative than the on-street crossing. In the subsequent project phase, the construction cost, utility and environmental impact needs to be carefully weighed against the on-street option with the level of anticipated use of the proposed crossing.

TABLE 2: Alternatives Comparison

Issue	Proposed Improvement		
	Overpass Option	Underpass Option	On-Street Option
Roadside Safety	B	C	B
	Bridge Towers/Ramps will be located outside Clear Zone	Guardrail needed to protect users from MSE wall drop-off(s)	Vehicle/Pedestrian Conflict Point
Pedestrian Safety	B	C	C
	Climb/Fall Concerns	Crime, Flood, Illumination, Railing Fall Concern	Vehicle/Pedestrian Conflict Point
Future Accommodations	B	D/F	A
	Can add future lane if needed by using barrier wall	Relocate MSE Walls, MOT, Significant cost	Minor costs
Constructability and MOT	B	D/F	A
	Minor Lane closures	Significant Issues - Lane Closures/Phased Construction	Minor Issues
Environmental Impacts	B/C	C/D	A
	Ramp vs. Stair/Elevator Evaluation will Determine	Wetland, Groundwater Pumping, Raised Profile - Noise Impacts	No Issues
Utility Impacts	C	C/D	A
	FPL Transmission/Distribution Impact(s) Isolated location(s)	Underground Utility Impacts 1800 LF N/S sides, Potential FPL	No/Minor Impacts
Ease of Use	C	B	A
	Ramps Inconvenient/Circuitous	Ramps Inconvenient/Circuitous	Push Button - No Issues
Aesthetics	A/B	D	B/C
	Dependant on Type of Structure selected - "Landmark Consideration"	No signature appeal, MSE Walls, Railings, Guardrails	Typical Application
Construction Cost	C/D	D/F	A
	Dependant on Type of Structure selected - "Landmark Consideration"	Initial Construction and Long Term Maintenance Costs Significant	Minimal Costs
Maintenance	B/C	D/F	A
	Routine Inspection, Painting, Elevator/Ramp/Railing Maintenance	Routine Inspection, Painting, Ramp/Railing Maintenance, Pumping System, Lighting, MSE Walls	Minor - Typical Maintenance
Grading Scale:			
A = Most Desirable	*B = Desirable*	*C = Satisfactory*	
D = Less Desirable	*F = Unacceptable*		

4.5 Probable Construction Costs

The focus of this feasibility study was to compare order of magnitude budgetary costs for viable crossing alternatives. Cost data was also compared with available historical data from completed similar projects. Pedestrian overpass costs reflect the cost of access features and the bridge crossing. General contingency has been used to account for Mobilization, MOT and any site/civil work pertaining to the overpass alternatives. The cost estimates cover construction only and do not include costs of Right-of-way acquisition, subsequent design and construction engineering services or annual operating and maintenance expenses for the project. The costs of special safety and security features such as emergency call stations, closed circuit TV, audio surveillance, central station monitoring etc. are not included. Refer to Appendix D for preliminary cost backup information.

TABLE 3: Estimate of Probable Construction Cost

Crossing Option	Description	Probable Cost
Overpass	Utilitarian Aesthetics (FDOT Level 1)	$ 2 to $ 3 M
	Mid-level Aesthetics (FDOT Level 2)	$ 3 to $ 4 M
	Signature Aesthetics (FDOT Level 3)	$ 4 to $ 5 M
Underpass	Golden Gate Parkway Elevated with phased construction	$ 8 M
On-Street	Across from Freedom Park	$ 200 K
	Across from Gordon River Greenway	$ 200 K

K=Thousands ; M=Millions

PEDESTRIAN BRIDGE CROSSING FEASIBILITY STUDY

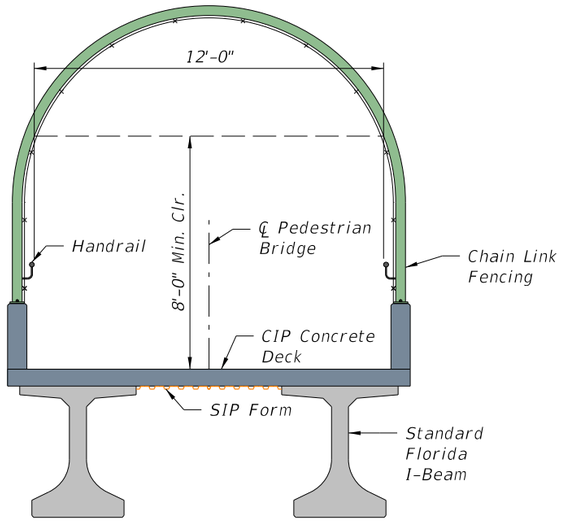
FREEDOM PARK TO GORDON RIVER GREENWAY PARK

OVER GOLDEN GATE PARKWAY

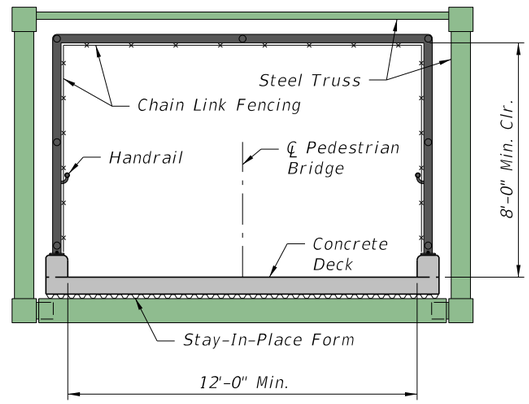
APPENDIX A – EXHIBITS



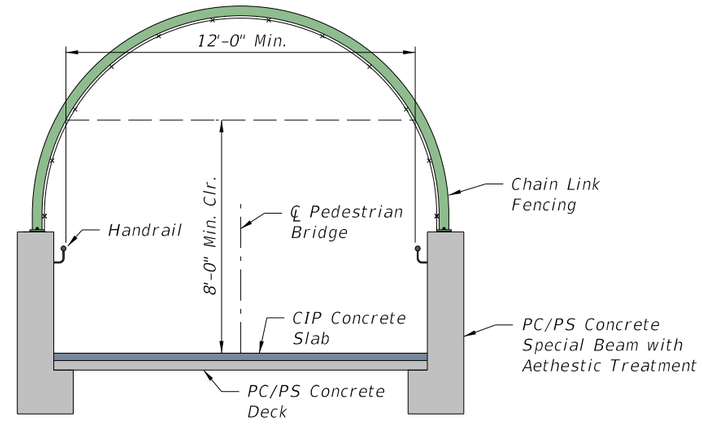
EXHIBIT 1
ALTERNATIVE CROSSING LOCATIONS



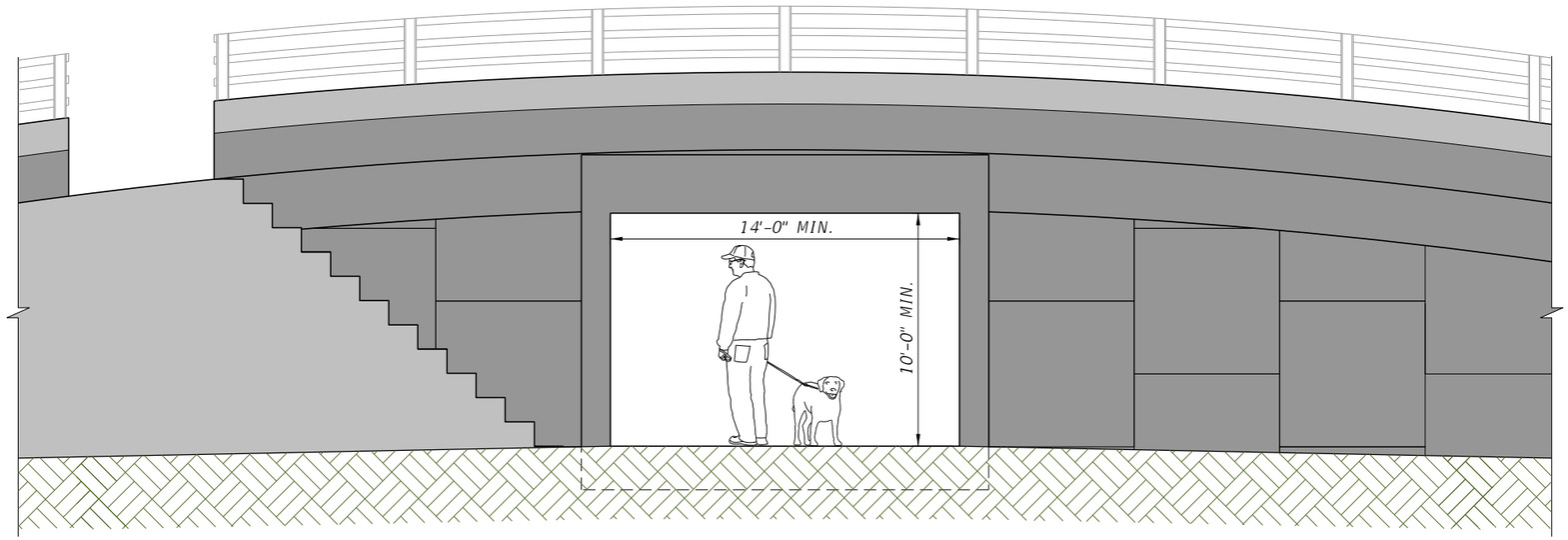
TYPICAL SECTION
UTILITARIAN AESTHETICS
(CONCRETE BEAM OPTION)



TYPICAL SECTION
MID-LEVEL AESTHETICS
(STEEL BOX TRUSS OPTION)



TYPICAL SECTION
SIGNATURE AESTHETICS
(SPECIAL CONCRETE BEAM OPTION)



UNDERPASS OPTION
TYPICAL SECTION

EXHIBIT 2
ALTERNATIVE CONCEPTUAL BRIDGE AND UNDERPASS SECTIONS



EXHIBIT 3
OVERPASS OPTION LAYOUT

ch2m:

OPTIONAL BOARDWAY CONNECTION

12'

121'-6"

Golden Gate Pkwy

Golden Gate Pkwy

Golden Gate Pkwy

Golden Gate Pkwy

EXHIBIT 4
UNDERPASS OPTION LAYOUT

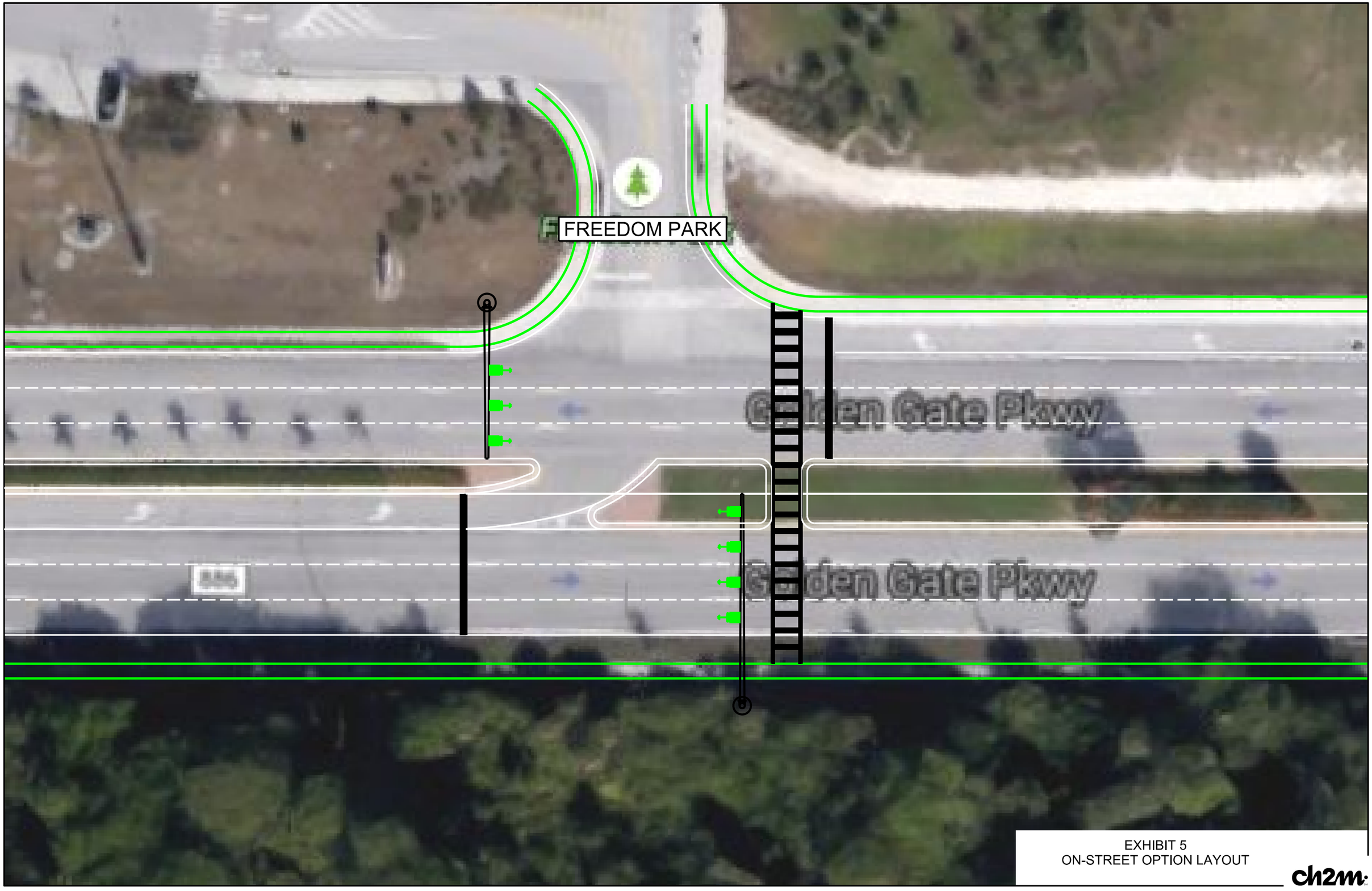


EXHIBIT 5
ON-STREET OPTION LAYOUT



EXHIBIT 6
OVERPASS RENDERING - UTILITARIAN AESTHETICS

ch2m



EXHIBIT 7
OVERPASS RENDERING - MID-LEVEL AESTHETICS

ch2m:



EXHIBIT 8
OVERPASS RENDERING - SIGNATURE AESTHETICS (CONCRETE)



EXHIBIT 9
Overpass Rendering – Signature Aesthetics (Tied Arch)

PEDESTRIAN BRIDGE CROSSING FEASIBILITY STUDY

FREEDOM PARK TO GORDON RIVER GREENWAY PARK

OVER GOLDEN GATE PARKWAY

APPENDIX B – SITE PHOTOS



Entrance to Gordon River Greenway



Entrance to Freedom Park



Vegetation near Gordon River Greenway



Vegetation along Golden Gate Parkway South Edge





View of Powerlines



Collier Area Transit Route 25 Stop



Curve West of Freedom Park Entrance (Above)



Freedom Park Entrance looking East on GG Parkway



Buried Fiberoptic Line





Existing Roadway Lighting



Wetland Vegetation South of Golden Gate Parkway



APPENDIX C – REFERENCE PHOTOS OF OTHER PEDESTRIAN CROSSINGS

1. Lake Mary Pedestrian Overpass, Orlando, FL




MUST
TURN RIGHT


HomeGoods

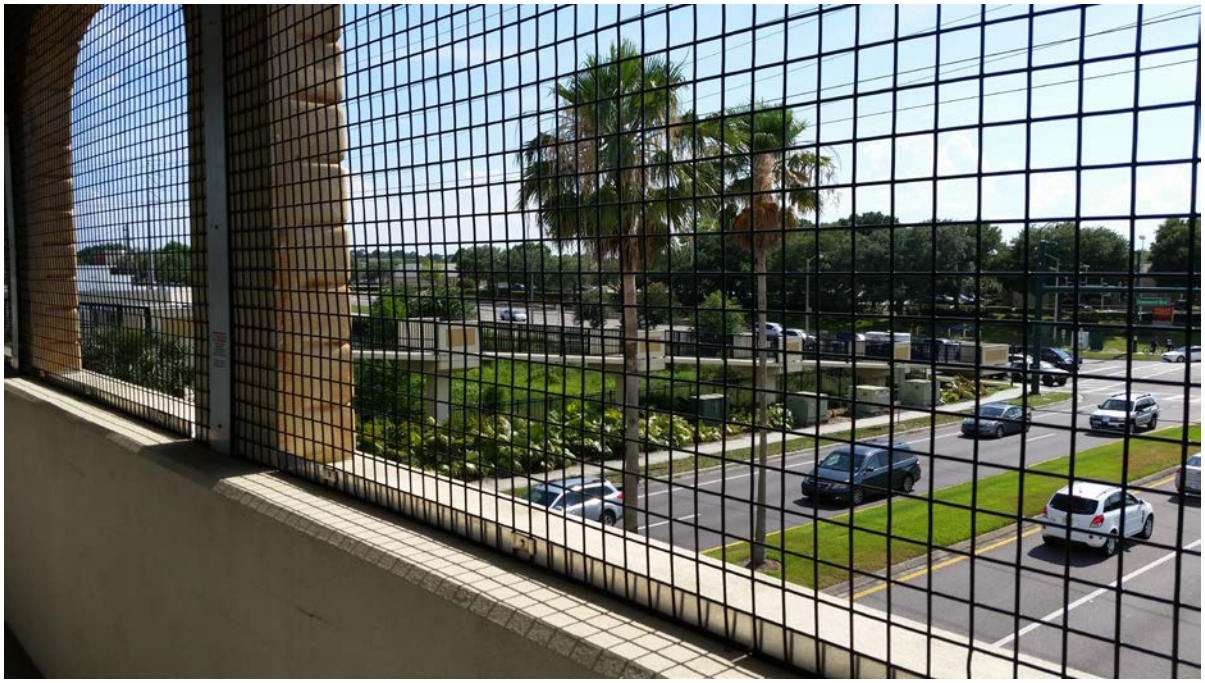








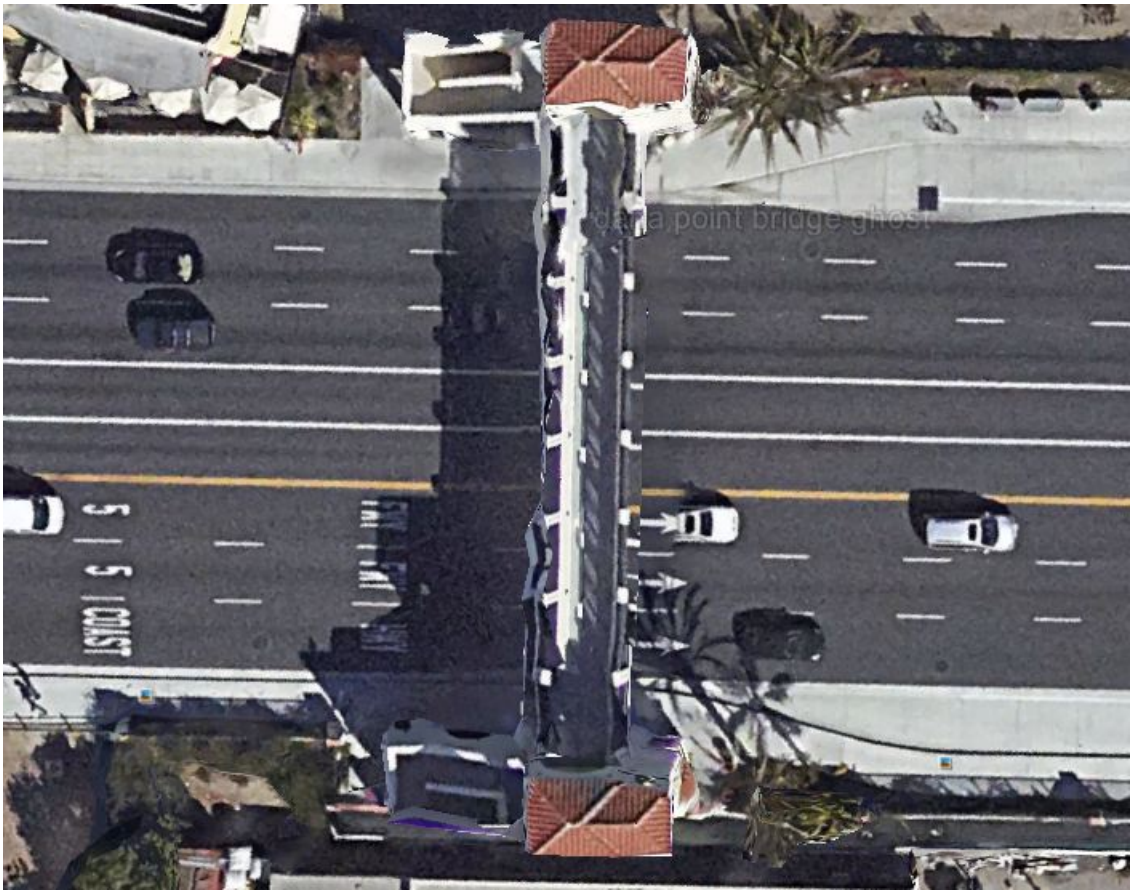








2. Pacific Coast Highway Overpass, Dana Point, CA


dana point bridge ghost
COAST


DANA POINT


DANA POINT

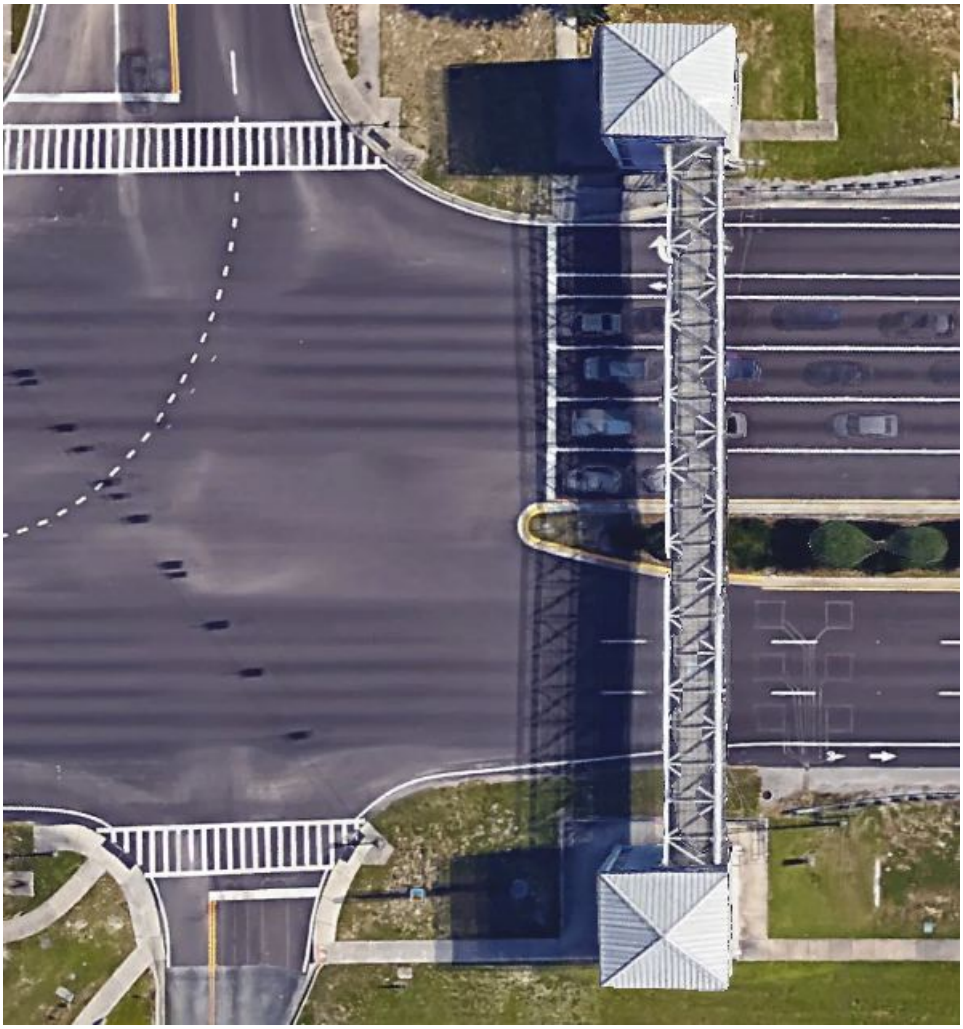
3. W. Ridge Road Pedestrian Bridge, Rochester, NY


104


CITY OF ROCHESTER



4. MOSI Pedestrian Overpass, Tampa, FL

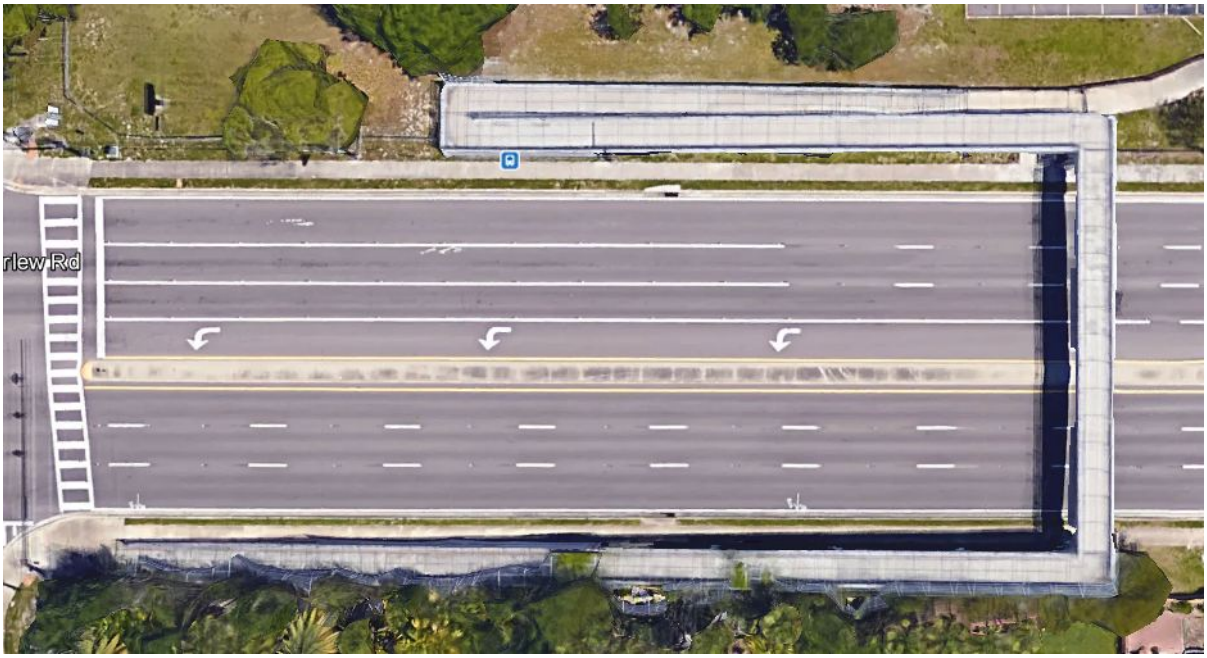





JUL 21 2006



5. Curlew Road Pedestrian Bridge, Clearwater, FL


rlew Rd





6. Sample Info on Variety of Other Pedestrian Bridge Options



Maitland pedestrian bridge over I-4

(Proposed as part of I-4 Reconstruction under construction)

Under hung Floor Beam

When clearance below the bridge is critical, this parallel chord style offers the shortest superstructure depth. An Under hung truss has its floor beams welded to the bottom of the bottom chords. It’s best suited for pedestrian bridges with spans up to 70', but is available in spans up to 120'.



H-Section Floor Beam

For spans up to 240', the H-Section is often selected for the most efficient superstructure. This parallel chord truss design has its floor beams welded to vertical members of the side trusses. As with all styles, the H-Section can be created with additional camber for a more graceful look.



Bowstring

With elegant top chords arching up from its base, the Bowstring is the perfect combination of visual appeal and design efficiency. Bowstring is available with spans up to 100' in an Underhung configuration and up to 200' as an H-Section.



Modified Bowstring

Available in similar spans as the Bowstring, the Modified Bowstring is a more economical choice when an arched top chord is desired. The less-pronounced arch still adds some beauty to the superstructure, while keeping the budget in check.



Box

For grade separations and enclosed walkways, the Box style is the preferred choice as it allows easy attachment of fencing or glazing on the sides and/or top, when required. Numerous architectural screen, roofing and branding options can also be incorporated














dreamstime.com

























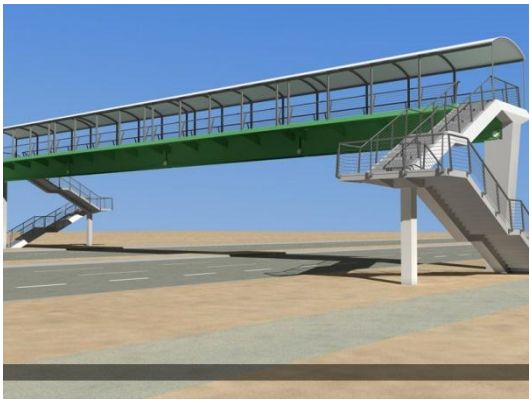









EXPOSITION BLVD.
FARMDALE
N

















PEDESTRIAN BRIDGE CROSSING FEASIBILITY STUDY

FREEDOM PARK TO GORDON RIVER GREENWAY PARK

OVER GOLDEN GATE PARKWAY

APPENDIX D – MISCELLANEOUS BACKUP DATA

Order of Magnitude Estimated Probable Cost - Overpass (Utilitarian Aesthetics)

Item	Description	Remark	Units	Quantity	Cost/Unit	Cost/Item
1	133.5 Foot Long-, 12 Foot Wide **Single** Span Overpass	Florida I-beam superstructure with conventional concrete deck on SIP forms, Rail, Vinyl Fence	SF	1602	$150	$240,300
2	North Approach Ramp	Approx. 150 long by 25 ft wide	SF	3750	$150	$562,500
3	South Towers including foundations	Approx. size 25 ft x 25 ft	EA	1	$200,000	$200,000
4	Elevator	Elevator and Equipment with power	EA	1	$75,000	$75,000
5	Utility Relocations	3 Transmission poles	LS	1	$500,000	$500,000
6	Site/Civil	Grading, sidewalk, drainage, signing	LS	1	$150,000	$150,000
7	MOT	Maintenance of Traffic	LS	1	$50,000	$50,000
8	Miscellaneous Items (10%)	Additional Items not specifically listed	LS	1	$177,780	$177,780
9	Contingency (10%)	Unforseen conditions and changes in scope of work	LS	1	$195,558	$195,558.00
10	Mobilization (10%)		LS	1	$215,114	$215,113.80
					Total	**$2,366,252**
		Approx. Order of Magnitude Probable Cost			**---------->**	**Say 2-3 M**

Note: The cost estimates cover construction only and do not include Right-of-way aquisition, subsequent design and construction engineering services or annual operating and maintenance expenses for the project. The costs of special safety and security features such as emergency call stations, closed circuit TV, audio surveillance, central station monitoring etc. are not included.

Order of Magnitude Estimated Probable Cost - Overpass (Mid-level Aesthetics)

Item	Description	Remark	Units	Quantity	Cost/Unit	Cost/Item
1	133.5 Foot Long-, 12 Foot Wide **Single** Span Overpass	Painted Steel Structure, Rail, Vinyl Fence, metal deck pan, Lightweight Concrete Deck	SF	1602	$300	$480,600
2	North Approach Ramp	Approx. 150 long by 25 ft wide	SF	3750	$175	$656,250
3	North & South Towers including foundations, Aesthetic treatment	Approx. size 25 ft x 25 ft	EA	2	$250,000	$500,000
4	Elevator	Elevator and Equipment with power	EA	1	$75,000	$75,000
5	Utility Relocations	3 Transmission poles	LS	1	$500,000	$500,000
6	Site/Civil	Grading, sidewalk, drainage, signing	LS	1	$150,000	$150,000
7	MOT	Maintenance of Traffic	LS	1	$50,000	$50,000
8	Miscellaneous Items (10%)	Additional Items not specifically listed	LS	1	$241,185	$241,185
9	Contingency (10%)	Unforseen conditions and changes in scope of work	LS	1	$265,304	$265,303.50
10	Mobilization (10%)		LS	1	$291,834	$291,833.85
					Total	**$3,210,172**
		Approx. Order of Magnitude Probable Cost			**---------->**	**Say 3-4 M**

Note: The cost estimates cover construction only and do not include Right-of-way aquisition, subsequent design and construction engineering services or annual operating and maintenance expenses for the project. The costs of special safety and security features such as emergency call stations, closed circuit TV, audio surveillance, central station monitoring etc. are not included.

Order of Magnitude Estimated Probable Cost - Overpass (Signature Aesthetics)

Item	Description	Remark	Units	Quantity	Cost/Unit	Cost/Item
1	133.5 Foot Long-, 12 Foot Wide **Single** Span Overpass	Special Concrete beams with deck supported near the bottom flange on precast deck panels, Rail, Vinyl Fence,	SF	1602	$500	$801,000
2	North Approach Ramp	Approx. 150 long by 25 ft wide	SF	3750	$225	$843,750
3	North & South Towers including foundations, Aesthetic treatment	Approx. size 25 ft x 25 ft	EA	2	$300,000	$600,000
4	Elevator	Elevator and Equipment with power	EA	1	$75,000	$75,000
5	Utility Relocations	3 Transmission poles	LS	1	$500,000	$500,000
6	Site/Civil	Grading, sidewalk, drainage, signing	LS	1	$200,000	$200,000
7	Landscaping	Enhancements	LS	1	$75,000	$75,000
8	MOT	Maintenance of Traffic	LS	1	$50,000	$50,000
9	Miscellaneous Items (10%)	Additional Items not specifically listed	LS	1	$314,475	$314,475
10	Contingency (10%)	Unforseen conditions and changes in scope of work	LS	1	$345,923	$345,922.50
11	Mobilization (10%)		LS	1	$380,515	$380,514.75
					Total	**$4,185,662**
		Approx. Order of Magnitude Probable Cost			**---------->**	**Say 4-5 M**

Note: The cost estimates cover construction only and do not include Right-of-way aquisition, subsequent design and construction engineering services or annual operating and maintenance expenses for the project. The costs of special safety and security features such as emergency call stations, closed circuit TV, audio surveillance, central station monitoring etc. are not included.

Order of Magnitude Estimated Probable Cost - On-Street Crossing option

Item	Description	Remark	Units	Quantity	Cost/Unit	Cost/Item
1	Signal Mast Arms	Two installations	EA	2	$40,000	$80,000
2	Site/Civil	Grading, sidewalk, drainage, signing, striping	LS	1	$40,000	$40,000
3	MOT	Maintenance of Traffic	LS	1	$15,000	$15,000
4	Miscellaneous Items (10%)	Additional Items not specifically listed	LS	1	$13,500	$13,500
5	Contingency (10%)	Unforseen conditions and changes in scope of work	LS	1	$14,850	$14,850.00
6	Mobilization (10%)		LS	1	$16,335	$16,335.00
					Total	**$179,685**
		Approx. Order of Magnitude Probable Cost			**---------->**	**Say 200 K**

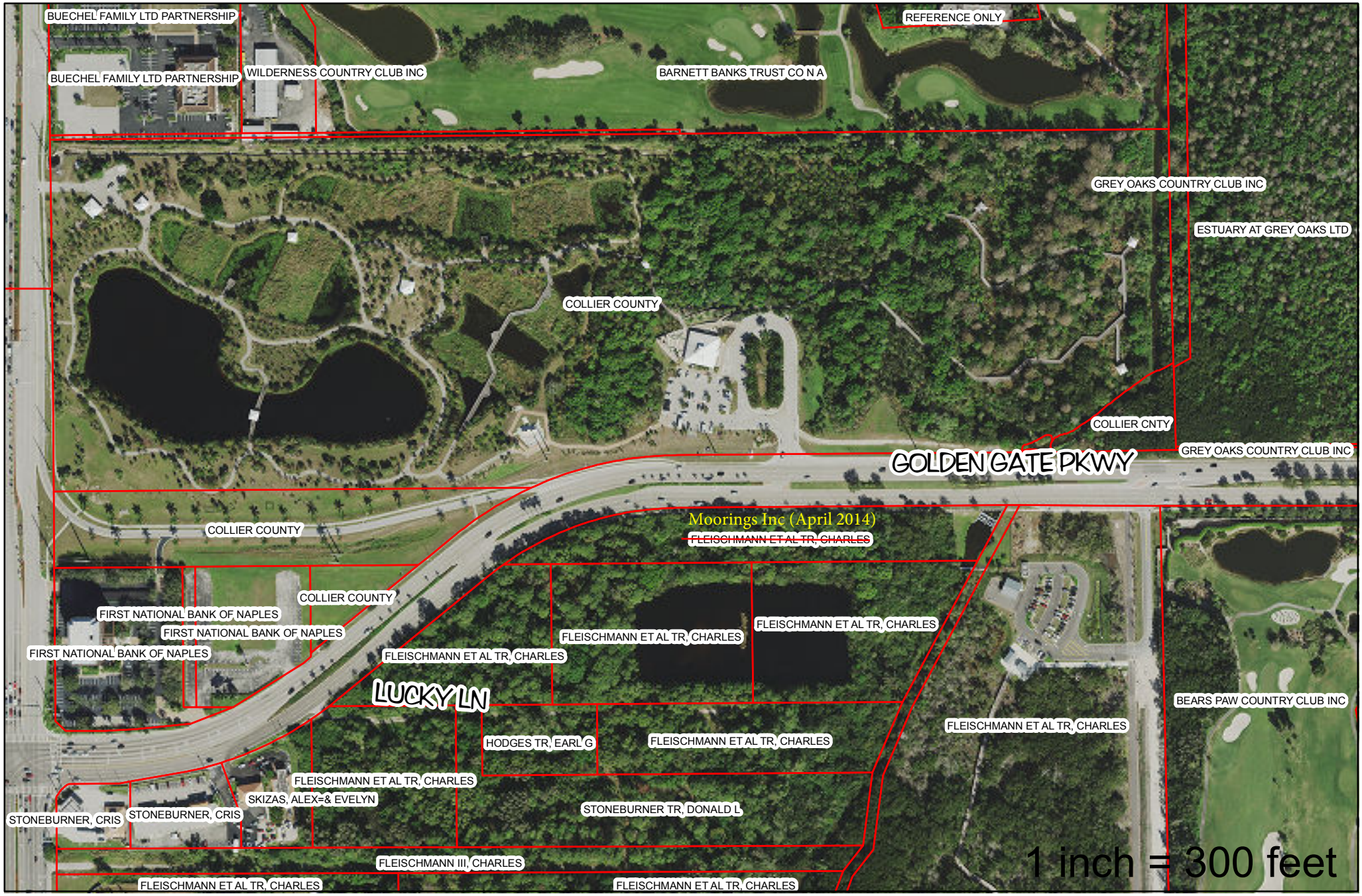
Note: The cost estimates cover construction only and do not include Right-of-way aquisition, subsequent design and construction engineering services or annual operating and maintenance expenses for the project. The costs of special safety and security features such as emergency call stations, closed circuit TV, audio surveillance, central station monitoring etc. are not included.

Order of Magnitude Estimated Probable Cost - Underpass

Item	Description	Remark	Units	Quantity	Cost/Unit	Cost/Item
1	CONCRETE BOX	14'x10' inside opening	LF	122	$3,000	$364,500
2	APPROACH RAMPS/STAIRS	Access at each end	SF	4200	$80.00	$336,000
3	BRIDGE #030172 REPLACEMENT	Due to added height of fill, existing structure may need to be replaced	SF	6014	$200	$1,202,850
4	SITE/CIVIL	1800 LF of roadway reconstruction with driveway connections	LS	1	$2,000,000	$2,000,000
5	PUMPING STATION - DRAINAGE	Tunnel grade will likely be depressed in the water table to minimize raising GG Pkwy	LS	1	$1,000,000	$1,000,000
6	PERMANENT MSE WALLS	Required on each side of Golden Gate Parkway	SF	18000	$26	$468,000
7	TEMPORARY MSE WALLS	Required for phased construction	SF	10800	$10.00	$108,000
8	TEMPORARY-SHEET PILING	Required for cofferdams for dewatering and box construction	SF	6250	$15.00	$93,750
9	MOT	Phased construction required	LS	1	$500,000.00	$500,000
10	Miscellaneous Items (10%)	Additional Items not specifically listed	LS	1	$607,310.00	$607,310
11	Contingency (10%)	Unforseen conditions and changes in scope of work	LS	1	$668,041.00	$668,041
12	Mobilization (10%)		LS	1	$734,845	$734,845
					Total	**$8,083,296**

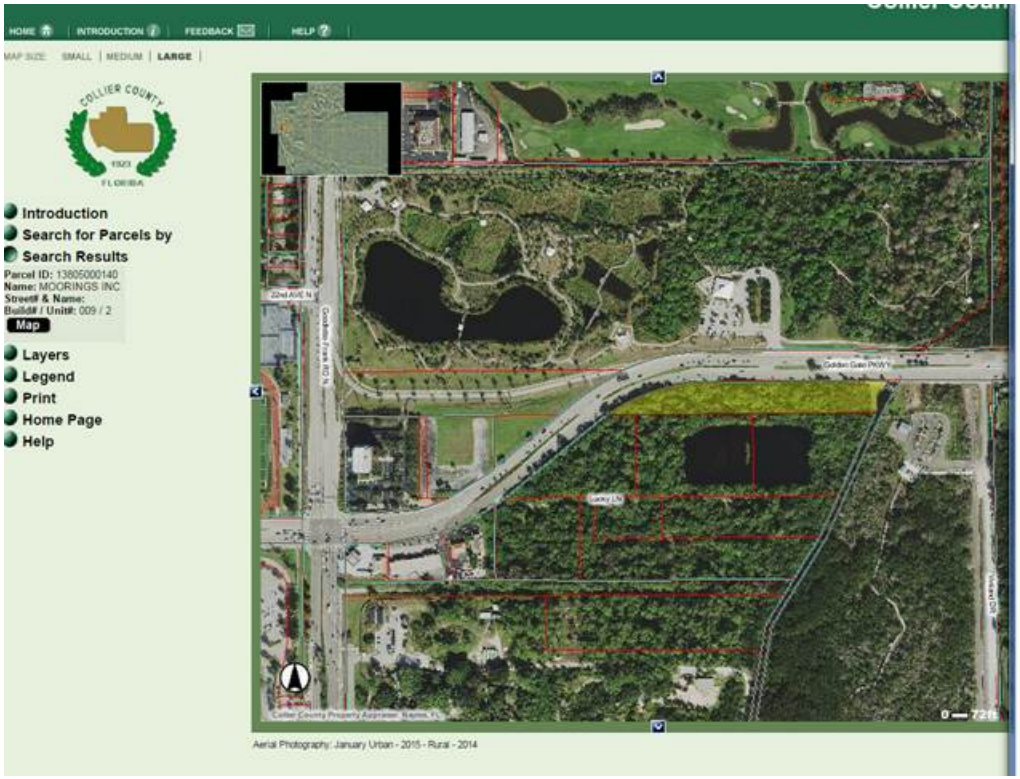
Note: Assume raising Golden Gate Parkway profile by 10 ft. requiring walls on each side approx. 900 ft to allow reasonable grades. Connections to Freedom park and Gordon River Greenway will have to be elevated.

PEDESTRIAN BRIDGE CROSSING FEASIBILITY STUDY: PARCEL OWNER MAP



Godbole, Bhushan/JAX

From: Ahmad, Adam/SWF
Sent: Friday, June 05, 2015 12:14 PM
To: Godbole, Bhushan/JAX
Cc: Gramer, Bill/SWF
Subject: RE: 2014 Parcel Data





It appears that the parcel to the south was sold to Moorings Inc in April of last year.

Adam Ahmad P.E.
Civil Engineer
Licensed General Contractor

Godbole, Bhushan/JAX

From: Ahmad, Adam/SWF
Sent: Friday, June 05, 2015 12:17 PM
To: Godbole, Bhushan/JAX
Cc: Gramer, Bill/SWF
Subject: FW: Emailing: IRTH One Call.htm

See below for the one call.

Adam Ahmad P.E.
Civil Engineer
Licensed General Contractor
Transportation Business Group
D 1 239 431 9212
M 1 239 273 8894

CH2M
5801 Pelican Bay Blvd
Naples, Fl, 34119
www.ch2m.com | LinkedIn | Twitter | Facebook

From: Chandler, Donna/WPB
Sent: Friday, June 05, 2015 12:16 PM
To: Ahmad, Adam/SWF
Subject: Emailing: IRTH One Call.htm

```
Ticket : 156503361 Rev:000 Taken: 06/05/15 10:58ET

State: FL Cnty: COLLIER GeoPlace: NAPLES
CallerPlace: NAPLES
Subdivision:

Address :
Street  : GOLDEN GATE PKWY
Cross 1 : GOODLETTE FRANK RD N
Within 1/4 mile: Y

Locat: STARTING APPROX 1/2 MILE E OF THE INTER OF GOODLETTE FRANK RD N FOR
DESIGN COVER A 500FT RADIUS AROUND THE CENTER LINE OF GOLDEN GATE PKWY
:
Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE
     ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE
     VICINITY OF THE DESIGN PROJECT.  SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF
     THE RECEIPT BY SSOCOF OF A DESIGN TICKET.  IT IS THE SOLE RESPONSIBILITY
     OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION
     ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES.  SUBMISSION
     OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556,
     FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH.
     THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER
     REQUIRED BY LAW.  IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR
     DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF
```

YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED , AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.

*** LOOKUP BY MANUAL ***

:

Grids : 2610B8146A 2610B8147D 2610C8146A 2610C8147D

Work date: 06/05/15 Time: 10:59ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 06/09/15 Time: 23:59ET Exp Date : 07/06/15 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
Done for : DESIGN

Company : CH2M HILL Type: CONT
Co addr : 3001 PGA BLVD
Co addr2: SUITE 201A
City : PALM BEACH GARDENS State: FL Zip: 33410
Caller : DONNA CHANDLER Phone: 561-904-7400
Contact : DESIGN Phone:
BestTime: 8-6
Fax : 561-904-7401
Email : DONNA.CHANDLER@CH2M.COM

Submitted: 06/05/15 10:58ET Oper: PRI
Mbrs : CC1255 CN1745 CON762 CPW592 CTV413 FPLCLR FPLFOW KC1538 LS1104 PGSSW
Mbrs : UTI303

Service Area Code	Service Area Name	Contact	Phone Numbers	Utility Type
CC1255	COLLIER COUNTY TRAFFIC OPERATIONS SECTION	PAM WILSON	Day: (239) 252 - 8260	ELEC & FIBER
CN1745	CITY OF NAPLES-SEWER	ALICIA ACEVEDO	Day: (239) 213 - 4712	SEWER
CON762	CITY OF NAPLES-WATER	ALICIA ACEVEDO	Day: (239) 213 - 4712	WATER
CPW592	COLLIER COUNTY STAKE & LOCATES	NATHAN BEALS	Day: (239) 252 - 2583	ELEC AND SEWER
CTV413	COMCAST	WILLIAM STANTON	Day: (239) 432 - 1861 Alt: (239) 707 - 4168	CATV
FPLCLR	FLORIDA POWER & LIGHT--COLLIER	TRACY STERN	Day: (800) 868 - 9554 Alt: (386) 329 - 5152	ELECTRIC
FPLFOW	FPL FIBERNET LLC	DANNY HASKETT**	Day: (305) 552 - 2931 Alt: (786) 246 - 7827	FIBER
KC1538	SUMMIT BROADBAND INC.	MIKE REBER	Day: (239) 325 - 4105 x261 Alt: (239) 631 - 9251	FIBER

PGSSW	TECO PEOPLES GAS - FT MYERS	BROCK DANIELS	Day: (239) 690 - 5517 Alt: (239) 896 - 0812	GAS
UTI303	CENTURYLINK-NAPLES	JIGS SLIANG	Day: (239) 263 - 6234	PHONE & FIBER OPTIC


Existing Bridge
Culvert No. 030172
over Gordon River
30172
Water control
structure
Golden Gate Pkwy

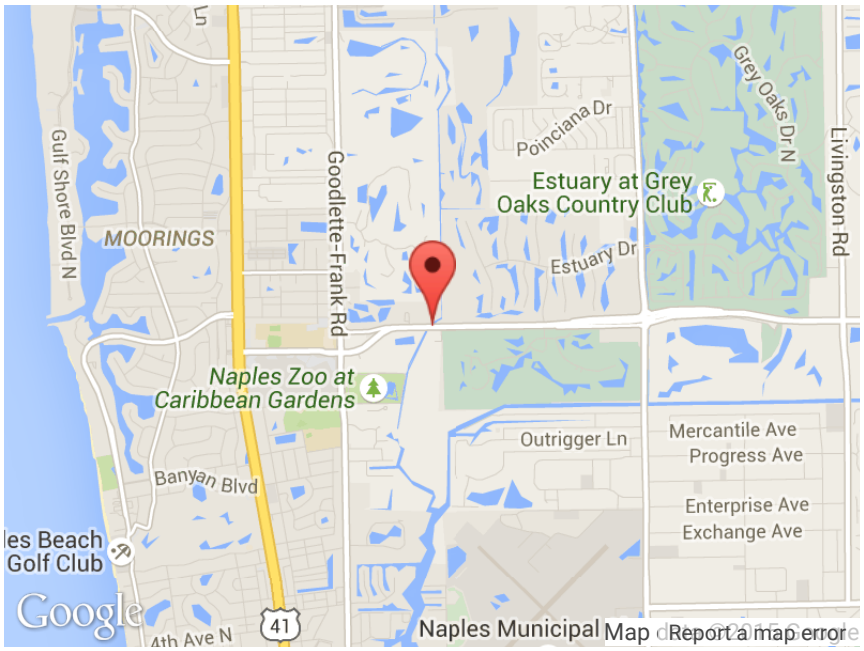
GOLDEN GATE PKWY over GORDON RIVER

Collier County, Florida
Enlarge map

Map

- Google Maps
- Yahoo! Maps
- Bing Maps
- MSR Maps
- OpenStreetMap

Coordinates:
+26.17361, -81.78417
26°10'25" N, 81°47'03" W



Source: National Bridge Inventory
Information not verified. Use at your own risk.

Facts

Name:	GOLDEN GATE PKWY over GORDON RIVER
Structure number:	030172
Location:	1.18MI WEST OF CR-31
Purpose:	Carries highway and pedestrian walkway over waterway
Route classification:	Local (Urban) *[19]*
Length of largest span:	11.5 ft. *[3.5 m]*
Total length:	49.5 ft. *[15.1 m]*
Skew angle:	29°
Owner:	County Highway Agency *[02]*
Year built:	1963

Historic significance:	Bridge is not eligible for the National Register of Historic Places *[5]*
Design load:	MS 18 / HS 20 *[5]*
Number of main spans:	4
Main spans material:	Concrete *[1]*
Main spans design:	Culvert *[19]*
Deck type:	Not applicable *[N]*

Latest Available Inspection: March 2012

Status:	Open, no restriction *[A]*
Average daily traffic:	27,904 *[as of 2012]*
Truck traffic:	5% of total traffic
Structural appraisal:	Better than present minimum criteria *[7]*
Water adequacy appraisal:	Equal to present minimum criteria *[6]*
Roadway alignment appraisal:	Better than present minimum criteria *[7]*
Channel protection:	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. *[7]*
Culvert condition:	Shrinkage cracks, light scaling and insignificant spalling which does not expose reinforcing steel. Insignificant damage caused by drift with no misalignment and not requiring corrective action. Some minor scouring has occured near curtain walls, wingwalls or pipes. Metal culverts have a smooth symmetrical curvature with superficial corrosion and no pitting. *[7]*
Scour condition:	Bridge foundations determined to be stable for the assessed or calculated scour condition. *[8]*
Operating rating:	87.7 tons *[79.7 metric tons]*
Inventory rating:	52.5 tons *[47.7 metric tons]*
Sufficiency rating:	72.3

Previous Inspections

Date	Suff. rating	Evaluation	Deck	Super.	Sub.	ADT
March 2012	72.3	Not deficient	-	-	-	27904
March 2010	72.3	Not deficient	-	-	-	27904
March 2008	72.3	Not deficient	-	-	-	27904
March 2006	80.1	Not deficient	-	-	-	10800
March 2004	78.1	Not deficient	-	-	-	10800
January 2003	78.1	Not deficient	-	-	-	10800

January 2001	78.1	Not deficient	-	-	-	10800
January 1999	69.2	Not deficient	-	-	-	10800
January 1997	70.2	Not deficient	-	-	-	10800
January 1995	71.3	Not deficient	-	-	-	10000
January 1993	66.5	Functionally obsolete	-	-	-	10000
December 1990	88.7	Not deficient	-	-	-	10000

Uglybridges.com: National Bridge Inventory data
[Locations | Search | Cities | Forum | About | Bridgehunter.com]
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Disclaimer: All data is taken from the National Bridge Inventory and has **not** been verified.
This page's URL is http://uglybridges.com/1078088

DISTRICT	COUNTY	OWNER	BRIDGE	STRUCTURE NAME	ROADWAY	ADT	FACILITY CROSSED	YEAR BUILT	RECONSTRUCTED	LAST INSPECTION	SUFFICIENCY RATING	HEALTH INDEX	NBI RATING
Southwest Florida	Collier	County Highway Agency	030147	CR-841 OVER HALFWAY CREEK	BIRDON RD - CR-841	100	HALFWAY CREEK	1971		1/6/2015	93.5	87.39	
Southwest Florida	Collier	State Highway Agency	030148	JUDGE JOLLY MEMORIAL	SR-951 NB(COLLIER)	14,250	BIG MARCO PASS	1969		4/12/2013	92.3	90.37	
Southwest Florida	Collier	County Highway Agency	030149	BLUEBILL AVE / NAPLES PARK CANAL	BLUEBILL AVE CR846	5,000	NAPLES PARK CANAL	1969		2/4/2015	81.1	95.30	
Southwest Florida	Collier	County Highway Agency	030150	CR-858/FAKA UNION CANAL	CR-858	2,880	FAKA UNION CANAL	1966		3/12/2015	73.6	94.98	FO
Southwest Florida	Collier	County Highway Agency	030153	CR 858/OKALOACOOCHEE SLOUGH	CR 858	1,070	OKALOACOOCHEE SLOUGH	1951		3/12/2013	68.1	94.53	
Southwest Florida	Collier	County Highway Agency	030154	CR 858/OKALOACOOCHEE SLOUGH	CR 858	1,440	OKALOACOOCHEE SLOUGH	1951		3/12/2013	67.2	90.64	
Southwest Florida	Collier	County Highway Agency	030155	CR 858 /OKALOACOOCHEE SLOUGH	CR 858	1,000	OKALOACOOCHEE SLOUGH	1951		3/12/2013	68.1	96.29	
Southwest Florida	Collier	County Highway Agency	030156	CR 858 / OKALOACOOCHEE SLOUGH	CR 858	1,000	OKALOACOOCHEE SLOUGH	1951		3/12/2013	68.1	99.25	
Southwest Florida	Collier	County Highway Agency	030157	CR-837 OVER FAKAHATCHEE STRAND	CR-837	1,500	FAKAHATCHEE STRAND	1955		1/7/2015	62.6	91.18	
Southwest Florida	Collier	County Highway Agency	030158	CR 858 OVER OBIE CANAL	CR 858	110	OBIE CANAL	1953		3/12/2015	79.2	90.49	
Southwest Florida	Collier	County Highway Agency	030160	CR-846 OVER GATOR CANAL	CR-846	5,777	GATOR CANAL	1955	1977	4/25/2013	87.7	72.83	
Southwest Florida	Collier	County Highway Agency	030161	CR-29 OVER CHOKOLOSKEE BAY	CR-29 (COPELAND AV	2,500	CHOKOLOSKEE BAY	1955		1/6/2015	45.9	83.84	FO
Southwest Florida	Collier	County Highway Agency	030165	CR-837 / DEEP LAKE STRAND	CR 837	200	DEEP LAKE STRAND	1959		4/17/2013	74.5	84.54	
Southwest Florida	Collier	County Highway Agency	030166	CR 839 / COPELAND PRAIRIE	TURNER RIVER ROAD	20	COPELAND PRAIRIE	1960		4/17/2013	80.7	77.20	
Southwest Florida	Collier	County Highway Agency	030168	CR 839 / EAST HINSON MARSH	CR 839	20	EAST HINSON MARSH	1962		4/17/2013	78.3	90.86	
Southwest Florida	Collier	County Highway Agency	030169	CR 839 / EAST HINSON MARSH	CR 839	20	EAST HINSON MARSH	1962		4/17/2013	78.3	67.01	
Southwest Florida	Collier	County Highway Agency	030172	GOLDEN GATE PKWY/GORDON RIVER	GOLDEN GATE PKWY	27,904	GORDON RIVER	1963		3/5/2014	72.3	80.07	
Southwest Florida	Collier	County Highway Agency	030174	CR-951/BIG CYPRESS BASIN CANAL	CR951/COLLIER BLVD	10,000	BIG CYPRESS BASIN CANAL	1973	1984	3/4/2014	81.8	88.50	
Southwest Florida	Collier	County Highway Agency	030177	VANDERBILT DR/LITTLE HORSE PASS	VANDERBILT DR	11,500	LITTLE HORSE PASS	1964		2/4/2015	56.7	86.76	FO
Southwest Florida	Collier	County Highway Agency	030178	VANDERBILT DR/CR901OVER CANAL	VANDERBILT DR	15,000	CANAL	1964		2/4/2015	81.2	70.89	
Southwest Florida	Collier	State Highway Agency	030181	US-41 OVER DUNRUSS CREEK	US-41 (SR-45)	35,500	DUNRUSS CREEK	1974		4/18/2013	70	99.76	
Southwest Florida	Collier	State Highway Agency	030183	US-41 NB OVER HALDEMAN RIVER	US 41NB TAMIAMI TR	16,500	HALDEMAN RIVER	1976	1999	3/11/2015	82	99.50	
Southwest Florida	Collier	County Highway Agency	030184	GOODLAND BRIDGE/STAN GOBER MEMORI	CR-92 SAN MARCO RD	3,000	MARCO CHANNEL	1975		2/11/2015	96	86.64	
Southwest Florida	Collier	County Highway Agency	030185	AIRPORT PULLING ROAD/BIG CYPRESS BAS	AIRPORT PULLING RD	53,363	BIG CYPRESS BASIN CANAL	1978		3/5/2014	63.8	99.52	FO
Southwest Florida	Collier	County Highway Agency	030186	CR-31 OVER ROCK CREEK	AIRPORT RD.(CR-31)	45,473	ROCK CREEK	1979		3/5/2014	65.3	85.35	FO
Southwest Florida	Collier	State Highway Agency	030189	I-75 SB OVER ROCK CANAL	I-75 SB (SR93)	43,500	ROCK CANAL	1980	2009	4/10/2013	96.3	92.71	
Southwest Florida	Collier	State Highway Agency	030190	I-75 NB OVER ROCK CANAL	I-75 NB (SR93)	43,500	ROCK CANAL	1980	2009	4/10/2013	96.3	98.20	
Southwest Florida	Collier	State Highway Agency	030193	US 41 SB/TAYLOR GLEAM CANAL	US-41SB TAMIAMI TR	17,250	TAYLOR GLEAM CANAL	1976	2002	4/23/2013	98.2	98.60	
Southwest Florida	Collier	State Highway Agency	030194	US 41 OVER GATOR HOLE	US 41 (SR 90)	2,400	GATOR HOLE	1976		3/27/2014	91.2	66.67	
Southwest Florida	Collier	State Highway Agency	030195	I-75 NB OVER SR-951	I-75 NB (SR-93)	10,111	SR-951	1984		3/4/2015	94	99.73	FO
Southwest Florida	Collier	State Highway Agency	030196	I-75 SB OVER SR-951	I-75 SB (SR-93)	10,111	SR-951	1984		3/4/2015	93	99.87	FO
Southwest Florida	Collier	State Highway Agency	030197	I-75 SB/GOLDEN GATE CANAL	I-75 SB (SR-93)	17,250	GOLDEN GATE CANAL	1984		3/5/2015	91.6	92.45	
Southwest Florida	Collier	State Highway Agency	030198	I-75 NB / GOLDEN GATE CANAL	I-75 NB (SR-93)	17,250	GOLDEN GATE CANAL	1984		3/5/2015	92.6	93.01	
Southwest Florida	Collier	State Highway Agency	030199	GOLDEN GATE PKWY OVER I-75	CR886(GLDN GT PKY)	40,500	I-75 AND CANAL C-1	1984	2006	3/10/2015	88.5	99.48	
Southwest Florida	Collier	State Highway Agency	030200	I-75 SB over CR 896	I-75 SB (SR 93)	29,000	CR 896/PINE RIDGE RD	1983	2009	3/3/2015	94	99.95	
Southwest Florida	Collier	State Highway Agency	030201	I-75 NB OVER CR 896	I-75 NB (SR 93)	29,000	CR 896/PINE RIDGE RD	1983	2010	3/2/2015	94	99.84	
Southwest Florida	Collier	State Highway Agency	030202	I-75 SB OVER CR 862	I-75 SB (SR 93)	32,712	CR862(VANDERBILT BCH RD)	1983	2008	3/3/2015	91.4	99.90	
Southwest Florida	Collier	State Highway Agency	030203	I-75 NB OVER CR 862	I-75 NB (SR 93)	32,712	CR862(VANDERBILT BCH RD)	1983	2009	3/12/2013	83	99.96	
Southwest Florida	Collier	State Highway Agency	030205	SANTA BARBARA BLVD / I-75	SANTA BARBARA BLVD	32,000	I-75 (SR 93)	1984	2009	3/13/2013	73.6	99.99	
Southwest Florida	Collier	City or Municipal Highway Agency	030207	N COLLIER BLVD OVER CLAM BAY	N COLLIER BLVD	15,800	CLAM BAY	1979		1/14/2015	95.8	97.88	
Southwest Florida	Collier	City or Municipal Highway Agency	030209	N COLLIER BLVD OVER SMOKEHOUSE BAY	N COLLIER BLVD	9,800	SMOKEHOUSE BAY	1971		1/29/2015	57.1	96.79	FO
Southwest Florida	Collier	County Highway Agency	030210	W PLANTATION PKWY OVER EVERGLADES	W PLANTATION PKWY	673	EVERGLADES DRAIN CANAL	1985		1/6/2015	88.1	99.22	
Southwest Florida	Collier	State Highway Agency	030211	SR-29 / WERE OUTA DOUGH CANAL	SR-29	2,200	WERE OUTA DOUGH CANAL	1986		3/12/2014	94.3	98.36	
Southwest Florida	Collier	State Highway Agency	030212	SR-29 OVER GRASSY POND	SR-29	2,200	GRASSY POND	1986		3/12/2014	93.2	97.24	
Southwest Florida	Collier	State Highway Agency	030213	SR-29 OVER ZLOTY CANAL	SR-29	2,200	ZLOTY CANAL	1986		3/11/2014	94.3	99.10	
Southwest Florida	Collier	State Highway Agency	030214	I-75 NB/GOLDEN GATE CANAL	I-75 (SR-93) NB	10,111	GOLDEN GATE CANAL	1990		3/14/2013	96.2	96.12	
Southwest Florida	Collier	State Highway Agency	030215	I-75 SB/STUMPY STRAND	I-75 SB (SR-93)	10,111	STUMPY STRAND W.L. X-ING	1990		3/11/2015	96.2	100.00	
Southwest Florida	Collier	State Highway Agency	030216	I-75 SB / WILDLIFE XING	I-75 (SR-93)	10,111	TURNBACK SLOUGH	1990		5/21/2013	97.2	100.00	
Southwest Florida	Collier	State Highway Agency	030217	I-75 NB / FAKA UNION CANAL	I-75 (SR-93) NB	10,111	FAKA UNION CANAL	1990		3/5/2013	96.2	99.98	
Southwest Florida	Collier	State Highway Agency	030218	I-75 NB / LUCKY LADY STRAND	I-75 NB (SR-93)	10,111	LUCKY LADY STRAND	1990		3/11/2015	96.2	84.07	
Southwest Florida	Collier	State Highway Agency	030219	I-75 NB/STUMPY STRAND W.L. XING	I-75 NB (SR-93)	10,111	STUMPY STRAND W.L. X-ING	1990		3/5/2013	96.2	99.89	
Southwest Florida	Collier	State Highway Agency	030220	I-75 NB / WILDLIFE XING	I-75 (SR-93) NB	10,111	TURNBACK SLOUGH	1990		5/21/2013	97.2	99.96	
Southwest Florida	Collier	State Highway Agency	030221	I-75 SB/PENNINGTON CAMP	I-75/SR-93 SB	10,111	PENNINGTON CAMP WC X 4	1989		5/21/2013	80.5	98.87	
Southwest Florida	Collier	State Highway Agency	030222	I-75 NB/PENNINGTON CAMP	I-75/SR-93 NB	10,111	PENNINGTON CAMP WC X 4	1989		5/21/2013	80.5	100.00	
Southwest Florida	Collier	State Highway Agency	030223	I-75 NB OVER KOJAK CREEK	I-75/SR-93 NB	10,111	KOJAK CREEK	1989		5/21/2013	86	99.65	
Southwest Florida	Collier	State Highway Agency	030224	I-75 SB OVER WEST HINTON	I-75/SR-93 SB	10,111	WILDLIFE CROSSING NO-6	1989		5/30/2013	86.3	98.73	

NBI=National Bridge Inventory
ADT=Average Daily Traffic
SD=Structurally Deficient
FO=Functionally Obsolete

Gordon River Greenway Preserve
Land Management Plan



Managed by: Conservation Collier Program

Collier County, Florida

~~June 2011~~February 2025 – ~~June 2021~~February 2035 (10-yr plan)

October 2025

Prepared by:

Conservation Collier Staff;

Collier County ~~Facilities Management Department~~Development Services Division

~~G:\Conservation Collier\Land Management\Gordon River Greenway and Waterpark Management Plan\Greenway\Land Management Plans\Greenway FMP FINAL.doc~~

Gordon River Greenway Preserve
Land Management Plan Executive Summary

Lead Agency: Collier County Board of County Commissioners, Conservation Collier Program

Property included in this Plan: "Gordon River Greenway Preserve" ~~43.54~~51.05-acres. Preserve consists of ~~one~~ two parcels in Section 34, Township 49, and Range 25 of Collier County, Florida.

Folio Number	Legal Description
00268160009	Appendix 1
20760080007	Appendix 1

Management Responsibilities:

Agency: Collier County - Conservation Collier Program

Designated Land Use: Conservation and natural resource based recreation

Unique Features: Mature mangrove forests and maritime hammock;~~,~~ adjacent to Gordon River

Management Goals:

Goal 1: Remove or control populations of invasive, exotic or problematic flora and fauna

Goal 2: Develop a baseline monitoring report

Goal 3: Restore and maintain native habitats

Goal 4: Develop and implement a plan for public use

Goal 5: Facilitate uses of the site for educational purposes

Goal 6: Determine if prescribed fire and/or mechanical treatments are feasible to decrease woody invasion resulting from past fire exclusion; if so proceed

Goal 7: Provide a plan for security and disaster preparedness

Public Involvement: The Gordon River Greenway Preserve is one part of the larger Gordon River Greenway Project. Stakeholders from the City of Naples, The Naples Zoo, SW FL Land Preservation Trust, Naples Airport Authority, Conservancy of Southwest Florida, and Naples' Pathways Coalition, as well as other members of the general public, have been involved with the planning of the Greenway Project.

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1.0 Introduction

The Gordon River Greenway Preserve is a ~~43.54~~51.05-acre natural area within the boundary of an unincorporated area of Collier County, Florida, ~~within is~~ directly adjacent to the City of Naples. Native plant communities within the preserve include mangrove swamp, scrubby flatwoods, hardwood/coniferous/palm mixed, maritime hammock, and mixed wetland hardwoods. The preserve is one part of the larger "Gordon River Greenway Project", which~~, when complete, will be~~is a 2-mile ecological and trail corridor centrally located within the Naples-Collier urban area. The Gordon River Greenway Preserve and the Gordon River Greenway Park, directly to the north, ~~are being~~were designed, permitted, and constructed together as one County project. Public amenity features along the boardwalk ~~will be~~are consistent throughout the entire project. Certain aspects of the trail system, such as trail width, security lighting, and hours of operation ~~will be~~were determined by County officials, with input from the Conservation Collier Program, to ensure public safety and consistency throughout the project area.

A site assessment to determine the northern parcel's compliance with Conservation Collier's initial screening criteria was conducted in May 2004, and the Conservation Collier Program purchased this parcel~~the property~~ on April 7, 2006. Another site assessment to determine the southern parcel's compliance with Conservation Collier's initial screening criteria was conducted in April 2010, and the Conservation Collier Program purchased this parcel on November 30, 2015. The County holds a fee simple title to the Gordon River Greenway Preserve. The Conservation Collier program manages these lands under authority granted by Conservation Collier Ordinance 2002-63 as amended (~~2007-65;~~ available from www.municode.com). Initial acquisition activities are summarized in Table 1.

Table 1: Acquisition History and Status of Gordon River Greenway Preserve

Year	Benchmark
2004	~~Property~~ Northern parcel nominated to the Conservation Collier Program
2004	Initial Criteria Screening Report accepted by the Conservation Collier Land Acquisition Advisory Committee (CCLAAC)
2006	Purchase approved by the Board of County Commissioners (BCC) and lands purchased
2006	Interim Management Plan completed and approved by CCLAAC and BCC
2009	Owner of southern parcel applied to the Conservation Collier Program
2010	Southern parcel Initial Criteria Screening Report accepted by the Conservation Collier Land Acquisition Advisory Committee (CCLAAC) and approval to pursue land acquisition within the City of Naples boundary granted by the Naples City Council
2010	Final Management Plan completed. The Final Management Plan was delayed because the preserve was originally to be incorporated into the Gordon River Greenway Park Final Management Plan. However, complications related to the Greenway Park's Management Plan FCT grant requirements prompted Conservation Collier staff to draft a separate, stand-alone Final Management Plan for the Greenway Preserve.
2011	Final Management Plan approved by CCLAAC and BCC
2011	Southern parcel placed on Conservation Collier Cycle 8 Active Acquisition List and Conservation Collier acquisitions suspended unless a "good deal" is offered
2015	Southern parcel acquired as a "good deal" - at $110,000 less than appraised value

Conservation, restoration and natural resource-based recreation are the designated uses of this preserve. Management activities allowed include those necessary to preserve, restore, secure and maintain this environmentally sensitive land for the benefit of present and future generations. Public use of the site must be consistent with these management goals.

This is the Final Management Plan for the Gordon River Greenway Preserve. This 10-year management plan will be submitted to the Collier County Board of County Commissioners (BCC) for its approval. When approved, this plan will replace the ~~Interim~~ previous Final Management Plan.

1.1 Conservation Collier: Land Acquisition Program and Management Authority

The Conservation Collier program was originally approved by voters in November 2002 and subsequently ~~confirmed~~ re-approved in the November ~~2006~~ 2020 ballot referendum. Both voter-approved referendums enable the program to acquire, preserve, restore, and maintain vital and significant threatened natural lands, forest, upland and wetland communities located in Collier County, Florida (Ordinance 2002-63, as amended). Properties ~~must support at least two of the~~are evaluated by the following criteria ~~following qualities to qualify for consideration~~when being considered for acquisition: ~~rare habitat~~vegetative communities, human social values, ~~aquifer recharge, flood control, water quality protection~~water resources, biological and ecological value, enhancement of current conservation lands, and location within a target area~~listed species habitat~~. The BCC appointed a Land Acquisition Advisory Committee to consider any selected or nominated properties that an owner has indicated a willingness to sell. The Committee recommends property purchases for final approval by the BCC.

Lands acquired with Conservation Collier funds are titled to "COLLIER COUNTY, a political subdivision of the State of Florida, by and through its Conservation Collier program." ~~The BCC established the Conservation Collier Program to a lands. As such,~~ Conservation Collier holds management authority for the Gordon River Greenway Preserve.

1.2 Purpose and Scope of Plan

The purpose of the plan is to provide management direction for Gordon River Greenway Preserve by identifying the goals and objectives necessary to eliminate or minimize any threats to the resources and integrity of the preserve. This text is a working document that establishes the foundation of the ten-year plan by identifying the appropriate management techniques necessary to restore and preserve the resource.

This plan is an appendix to the Collier County Freedom Park and Gordon River Greenway Florida Communities Trust (FCT) Management Plan, and it is intended to compliment and work in concert with the FCT Management Plan. In 2004 the Collier County Stormwater Department (Stormwater) acquired Freedom Park with grant funding from FCT. Because a Land Management Plan is a requirement of FCT grant funding, Stormwater drafted the original Freedom Park FCT Land Management Plan in 2006. Conservation Collier acquired the eastern 12.5 acres of Freedom Park from Stormwater in 2008. Because the existing Freedom Park FCT Land Management Plan satisfied the Conservation Collier Ordinance requirement for a Final Management Plan, a separate Conservation Collier final land management plan was not drafted.

The Parks and Recreation Department (Parks) acquired the northern 129 acres of Gordon River Greenway Park in 2005 with grant funding from FCT. In 2006 Parks portion of Gordon River Greenway Park was incorporated into the Freedom Park FCT Land Management Plan to fulfill

FCT grant funding requirements for a Land Management Plan. Although Conservation Collier acquired the southern 43.5 acres of Gordon River Greenway Park in 2006, this portion of the park was not incorporated into the FCT management plan, because FCT funding was not used to acquire it. Therefore, a separate Conservation Collier final land management plan was drafted for the Gordon River Greenway Preserve to satisfy the Conservation Collier Ordinance requirement for a Final Management Plan.

In 2011, there was an exchange of parcels between the Gordon River Greenway Park and the Naples Zoo without prior approval by FCT. A 6.4-acre parcel belonging to the Gordon River Greenway Park lying along the north side of the Naples Zoo was exchanged to the Naples Zoo in return for a 2.9-acre parcel adjoining the zoo on its south side. Subsequent discussions to resolve the land exchange with FCT resulted in the agreement to exclude the 4.7- acre shared parking lot on the southern access from the FCT project, while incorporating the southern Conservation Collier parcel into the FCT Declaration of Restrictive Covenants for The Gordon River Greenway Park. As a result, the northern 43.5 acres of Conservation Collier's portion of Gordon River Greenway Park were incorporated into the Collier County Freedom Park and Gordon River Greenway Florida Communities Trust (FCT) Management Plan in 2012.

This plan will balance resource restoration and protection with natural resource-based recreational and educational use while looking at restoration needs, listed species protection and maintenance of the site free of invasive, exotic plant and animal species. This plan is divided into sections that incorporate an introduction, descriptions of the natural and cultural resources, projected uses of the property, management issues, and goals and objectives.

1.3 Location of the Gordon River Greenway Preserve

Gordon River Greenway Preserve is located on the east and west side of the Gordon River, approximately ½ mile south of Golden Gate Parkway and ~~just~~ adjacent and northwest of the Naples Airport, with the northern access to the Preserve being from Bembury Drive or from the Gordon River Greenway Park trail. (Figures 1 and 2). The Gordon River Greenway Preserve is in southwest Collier County in Section 34, Township 49, and Range 25.

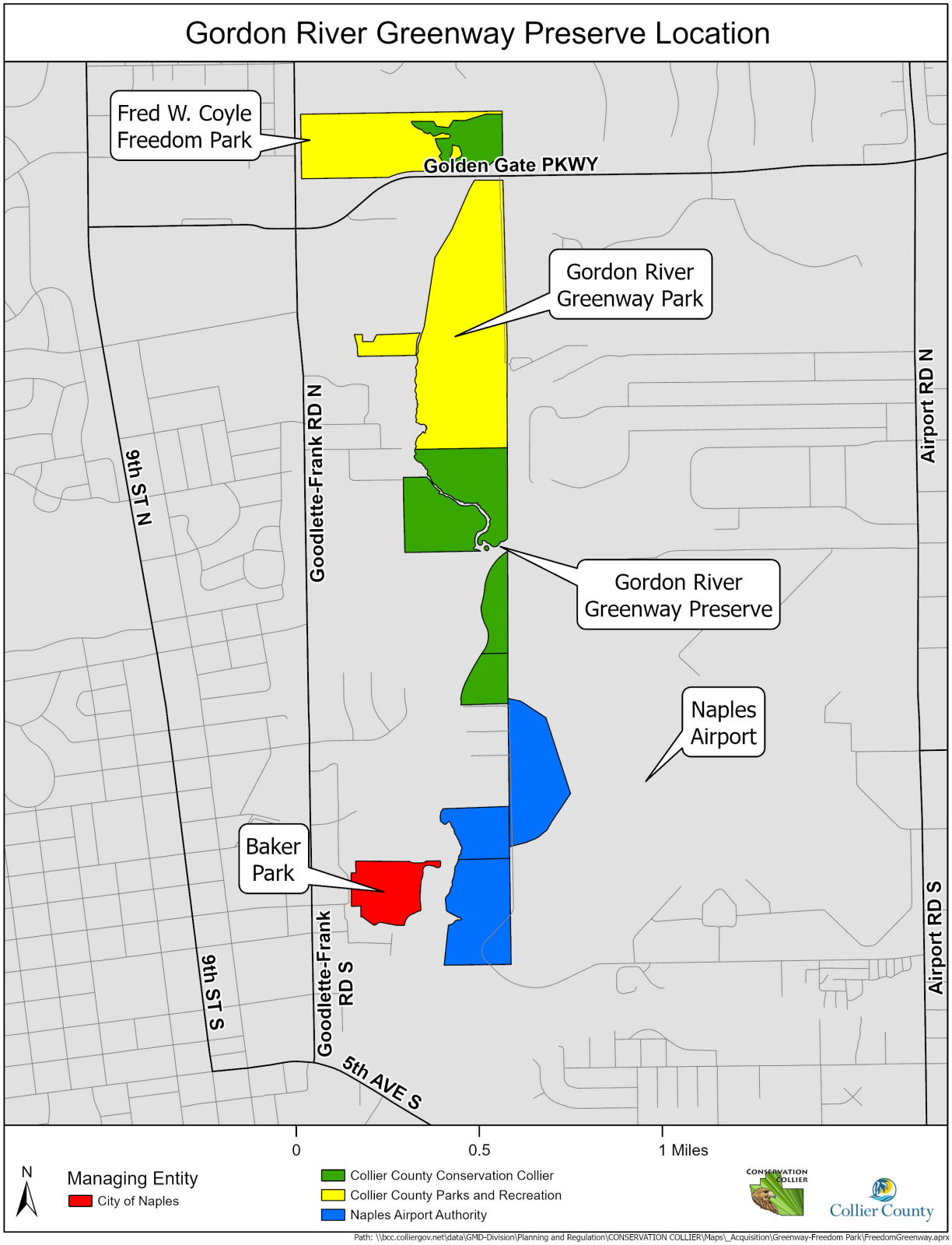

Figure 1: General Location of Gordon River Greenway Preserve.



Figure 2: Aerial View of the Gordon River Greenway Preserve

1.4 Regional Significance of the Gordon River Greenway Preserve

Ecosystem services such as the protection of water resources, flood control, maintenance of nutrient cycles, preservation of biological diversity, carbon sequestration, and the availability of recreational lands are imperative for the well-being of the citizens of Collier County and may be achieved through the preservation of natural areas. As of ~~April 2008~~January 2024, approximately ~~66~~68% (over ~~860~~888,000 acres) of all lands in Collier County were protected in conservation areas (Figure 3) and managed by private, local, state and federal agencies (FNAI ~~2008~~2024). Collier County's Conservation Collier Program manages the 43.54-acre Gordon River Greenway Preserve; it contains mangrove swamp, scrubby flatwoods, hardwood/coniferous/palm mixed, maritime hammock, and mixed wetland hardwoods communities. Specific information on the plant communities found on the Gordon River Greenway Preserve may be found in section 2.3 (Natural Plant Communities) of this document.

Collier County Conservation Preserve Map

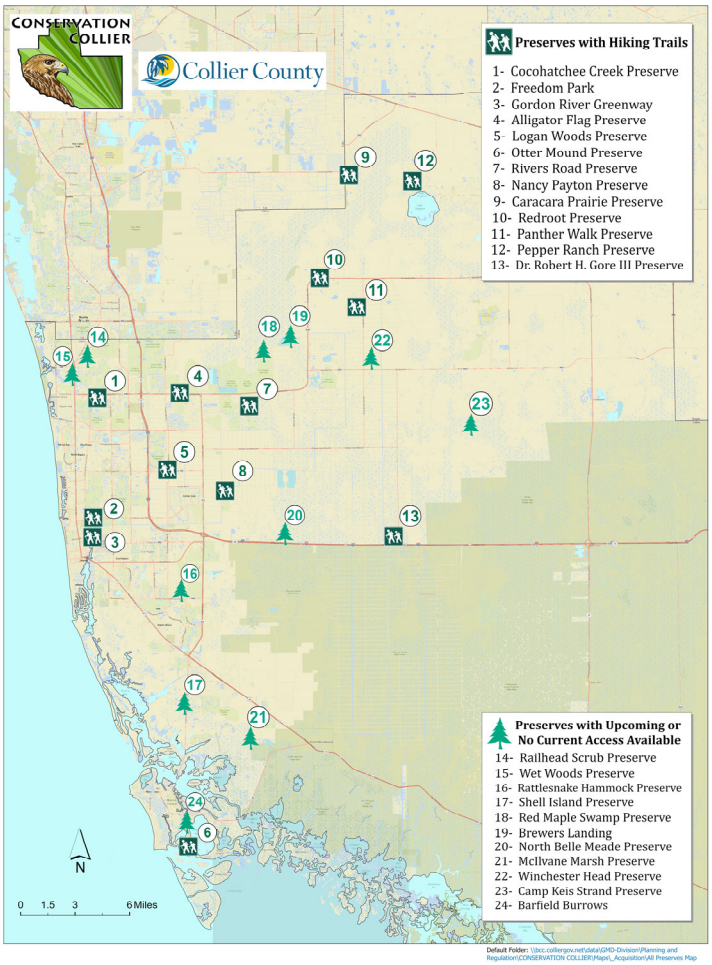

Figure 3: Conserved Lands in Collier County, Florida

1.5 Nearby Public Lands and Designated Water Resources

Currently, the closest preserved, natural area to the Gordon River Greenway Preserve is the adjoining Gordon River Greenway Park to the north managed by Collier County Parks and Recreation (Parks and Rec.). Other preserves, in order of increasing distance, are provided in Table 2. Figure 4 shows the locations of these preserves.

Table 2: Public Lands Located near the Gordon River Greenway Preserve

Name	Approximate Distance (miles)	Direction	Type
Gordon River Greenway Park	0.00 (adjoining)	N	County
Riverside Circle Wetland Area	0.47	SW	City of Naples
Naples Preserve	0.64	NW	City of Naples
Freedom Park	0.67	S	Conservation Collier
Rookery Bay National Estuarine Research Reserve	4.3	S	State
Logan Woods Preserve	5.1	NE	Conservation Collier
Rattlesnake Hammock Preserve	6.2	SE	Conservation Collier
Picayune Strand State Forest	7.2	W	State
Cocohatchee Creek Preserve	7.2	N	Conservation Collier
Nancy Payton Preserve	7.3	NE	Conservation Collier
Delnor-Wiggins Pass State Park	7.8	W	State

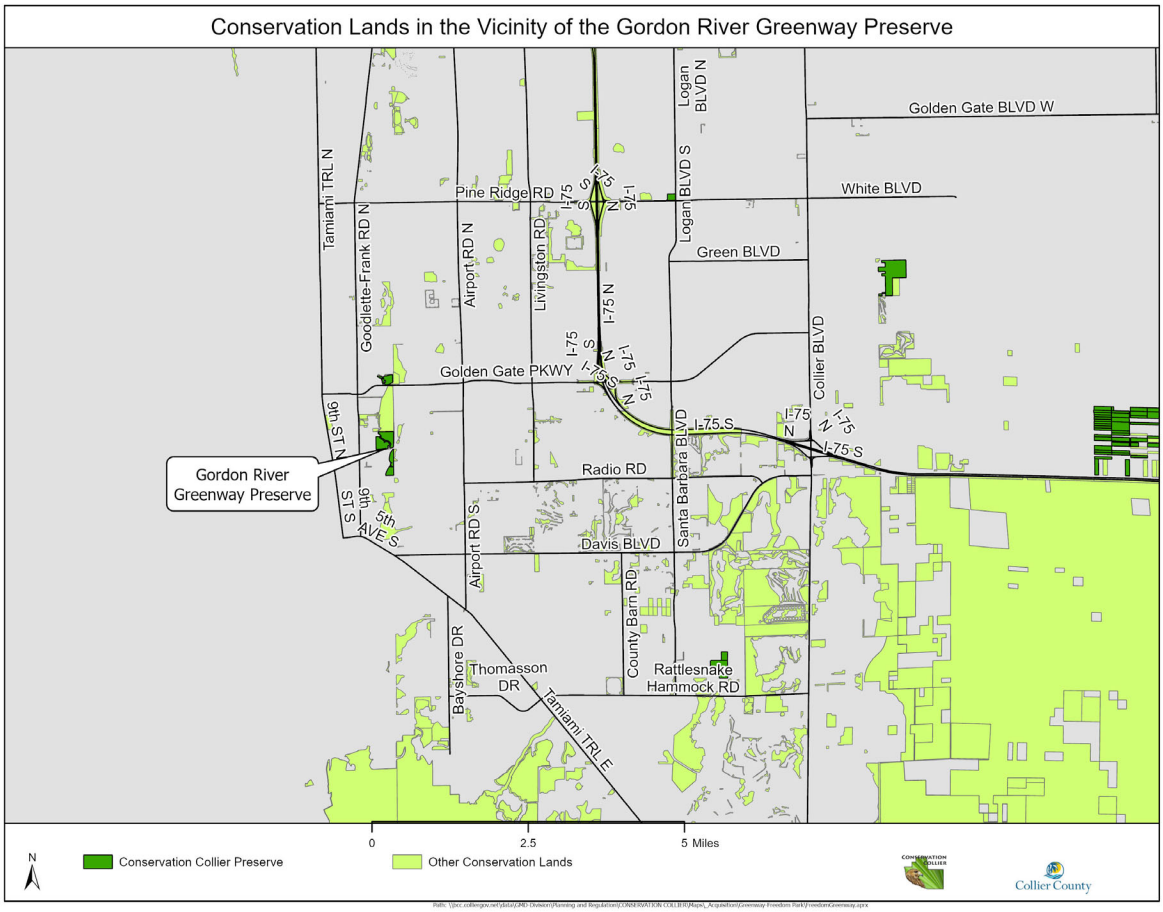

Figure 4: Preserves and Protected Lands in the Vicinity of Gordon River Greenway Preserve

1.6 Public Involvement

Neighborhood involvement ~~will be~~was sought through public meetings associated with the rezone and development process of the County's portion of the Gordon River Greenway, which ~~includes~~ included the Gordon River Greenway Preserve and the Gordon River Greenway Park adjacent to the Preserve on the northern boundary. Staff will seek to coordinate management actions, such as exotic removal with owners of adjoining lands that are also part of the larger Gordon River Greenway Project.

Staff will continue to work together with Collier County Parks and Rec., ~~Southwest Florida Land Preservation Trust,~~ the Naples Airport Authority, and the City of Naples to ensure that sufficient public input is gathered regarding the Greenway and to ensure that Greenway development is consistent across agency boundaries.

2.0 Natural Resources

2.1 Physiography

Gordon River Greenway Preserve lies within the Floridian section of the Coastal Plain. The Coastal Plain extends from New Jersey to Texas and was formed mainly from sedimentary rocks deposited in marine environments (USGS 2004).

2.1.1 Soils

Soils data is based on the Soil Survey of Collier County Area, Florida (USDA/NRCS, 1990). The majority of the mapped soils on this parcel are Durbin and Wulfert Mucks, which are frequently flooded hydric, tidal soils. Non-hydric, Immokalee Fine Sand is found in a very small section at the northern edge of the property. (Figure 5).

Durbin and Wulfert Mucks, frequently flooded, covers approximately ~~91~~81.3% of the preserve. These level, very poorly drained soils are in tidal mangrove swamps. Mapped areas can consist entirely of the Durbin soil, entirely of the Wulfert soil, or any combination of the two soils. The permeability of both soil types is rapid. The available water capacity in the Durbin soil is high and in the Wulfert soil it is moderate. The water table fluctuates with the tide, and it is within a depth of 12 inches for most of the year. The soil is subject to tidal flooding. The natural vegetation consists of red mangrove *(Rhizophora mangle*), black mangrove (*Avicennia germinans*), and white mangrove (*Laguncularia racemosa*) (Liudahl et al. 1990).

Hallandale Fine Sand (7.5% of the preserve) is a nearly level, poorly drained, non-hydric soil found in flatwoods. The permeability of this soil is rapid. The available water capacity is very low. Under natural conditions, the seasonal high water table is between a depth of 6 to 18 inches for 1 to 6 months during most years; during other months, the water table is below a depth of 18 inches, and it recedes to a depth of more than 40 inches during extended dry periods. Natural vegetation within this soil consists of South Florida slash pine (*Pinus elliottii*), saw palmetto (*Serenea repens*), little bluestem (*Schizachyrium scoparium*), chalky bluestem (*Andropogon virginicus*), wiregrass (*Aristida stricta*).

Immokalee Fine Sand (~~7~~5.6% of the preserve) is a nearly level, poorly drained, non-hydric soil found on flatwoods. The permeability of this soil is moderate. The available water capacity is low. The seasonal high water table is normally at a depth of 6 to 18 inches for 1-6 month~~e~~s during most years; during the other months, the water table is below a depth of 18 inches, and it

recedes to a depth of more than 40 inches during extended dry periods. Natural vegetation within this soil consists of Florida slash pine ~~(*Pinus elliottii*)~~, saw palmetto ~~(*Serenoa repens*)~~, waxmyrtle (*Myrica cerifera*), chalky bluestem (*Andropogon virginicus*), little bluestem ~~(*Schizachyrium scoparium*)~~, and wiregrass ~~(*Aristida stricta*)~~ (Liudahl et al. 1990).

~~Hallandale Fine Sand and~~ Urban Land – Immokalee – Oldsmar, Limestone Substratum Complex soils cover ~~0.9% and~~ 0.2% of the preserve ~~respectively~~.

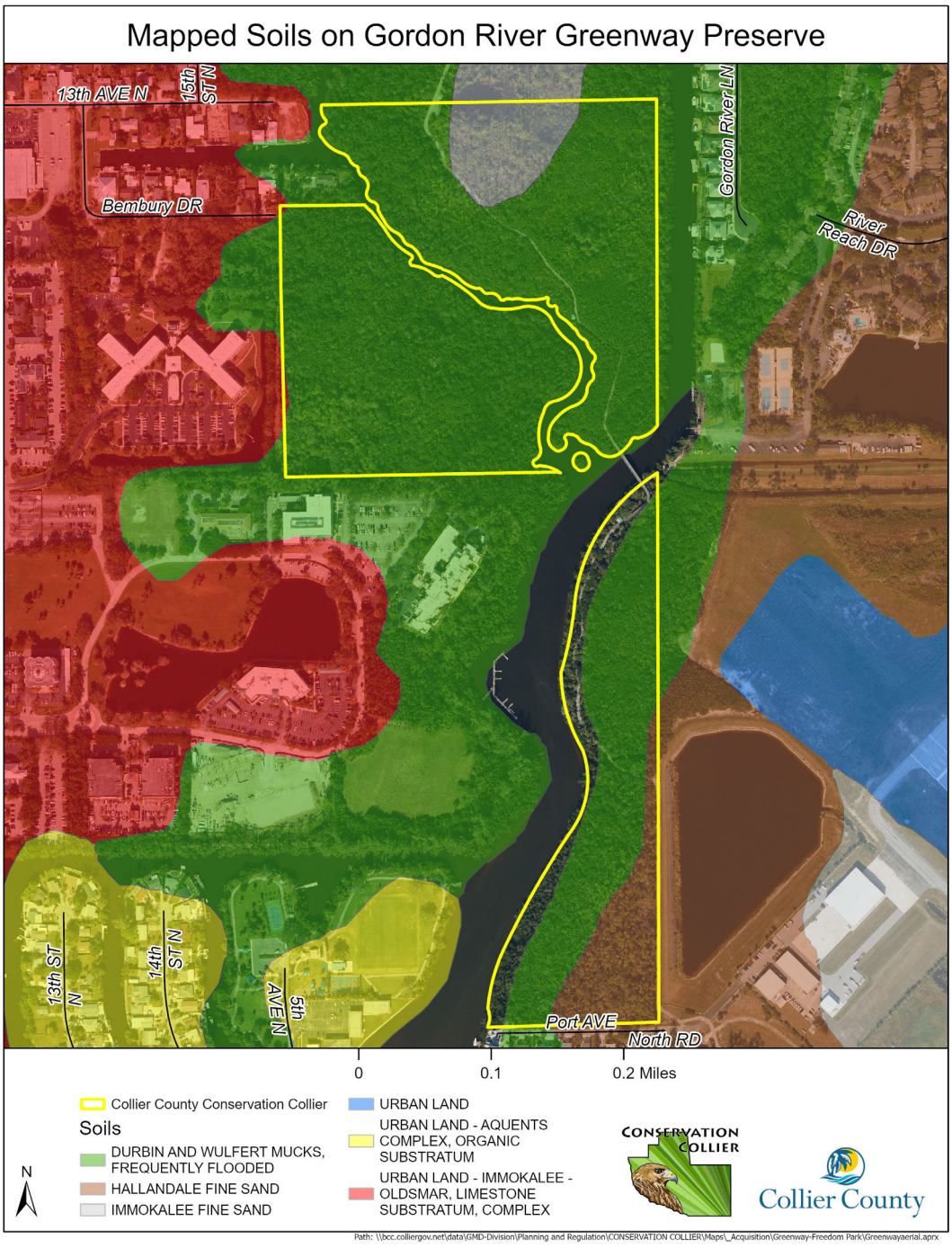

Figure 5: Soil Units on the Gordon River Greenway Preserve

2.1.2 Hydrology/Water Management

Near the surface, the aquifer is highly permeable and the groundwater flows toward the west. However, permeability decreases downward from a porous limestone into poorly indurated sandstone cemented by micrite. The aquifer grades from freshwater downward into brackish water due to the proximity of the Gulf of Mexico to the west and the brackish water in the intermediate aquifer made primarily of Miocene aged sediments. Below that, the Hawthorne formation typically marks the upper boundary of the Floridian aquifer, which is contained within the underlying Oligocene age Suwannee Limestone (Lodge 2005).

A large majority of the preserve contains tidally influenced brackish water wetlands that hold water year round.

The Surficial Aquifer is an aquifer close to the surface and unconfined, typically associated with the groundwater table. This aquifer is generally limited to smaller uses such as household or small agricultural uses. The Lower Tamiami aquifer is below this aquifer and is recognized as being useful for long-term water needs. According to the South Florida Water Management District's (SFWMD) technical publication 95-02 (Fairbank & Hohner 1995), the Surficial Aquifer recharge capacity on the Gordon River Greenway Preserve is moderate at 43 to 56 inches annually. The Lower Tamiami Aquifer recharge capacity on the preserve is relatively low at 7 to 14 inches annually.

2.2 Climate

The Gordon River Greenway Preserve is located in an area of Florida where humid subtropical and tropical savanna climatic patterns overlap, with temperatures moderated by winds from the Gulf of Mexico and the Atlantic Ocean. Sharply delineated wet and dry seasons and average monthly temperatures greater than 64º Fahrenheit characterize a tropical savanna climate. Monthly rainfalls may exceed ten inches during the wet season. On the other hand, humid subtropical climates typically show less extreme rainfall fluctuations between wet and dry seasons and average monthly temperatures is less than 64º Fahrenheit in some months.

The average annual temperature for the coastal portion of Collier County is approximately 75º Fahrenheit. The warmest months are usually July and August. The humidity is high during these months but frequent afternoon thunderstorms prevent excessively high temperatures.

Two-thirds of the annual rainfall occurs in the wet season from May to October. Thunderstorms are frequent during the wet season, occurring every two out of three days between June and September. Rainfall records for the area indicate that there is not significant variation in the annual rainfall throughout much of the county; however, large variations often occur during a single year. The Atlantic hurricane season extends from June through November with peak activity occurring in September and October when ocean temperatures are highest.

2.3 Natural Plant Communities

A plant community refers to the suite of floristic species that form the natural vegetation of any place. In addition to anthropogenic influences, the combination of factors such as geology, topography, hydrology, underlying soils and climate determine the types of plants found in an area. These plants, in turn determine the animal species that may be found there. The description or classifications of these floral communities differ by agency and are based on an agency's goals and objectives for identifying plant communities. As some categorizations are broad (e.g., forest) while others are specific (e.g., mesic pine flatwoods), determining how each organization classifies a community may be difficult. The South Florida Vegetation Classification Scheme Crosswalks (Gilbert 2005) provides a way to decipher the classifications of plant communities across agencies. Appendix 2 provides the categorization of the plant communities observed on the Gordon River Greenway Preserve based on the South Florida Vegetation Classification Scheme Crosswalks; classifications from the Florida Natural Areas Inventory (FNAI) are also included in this appendix. Specific information on the invasive, exotic species present on the preserve is provided in section 2.6.1 of this document.

The Florida Department of Transportation and Water Management Districts' Land Use, Land Cover Classification System (FLUCCS) codes for plant communities observed on the Gordon River Greenway Preserve are presented in Table 3. The following subsections (2.3.1, 2.3.2, 2.3.3 and 2.3.4) provide information about the plant communities observed on the preserve.

Table 3: Extent of Florida Land Use, Land Cover Classification System Designations on the Gordon River Greenway Preserve

FLUCCS CODE	Mapped Plant Community	2025
61209	Mangrove Swamp ~~– Disturbed~~	~~77~~74%
~~6179~~6170	Mixed Wetland Hardwoods – Disturbed	~~1~~8%
43409	Harwood/Coniferous/Palm Mixed	~~8~~6%
~~32794~~110	~~Other Shrubs and Brush (Scrubby Flatwoods – Disturbed)~~Pine Flatwoods	~~9~~6%
7430	Spoil Area – Created Maritime Hammock	~~5~~4%
6410	Freshwater Marsh	1%
8110	Transportation – Asphalt Trail and Boardwalk	1%

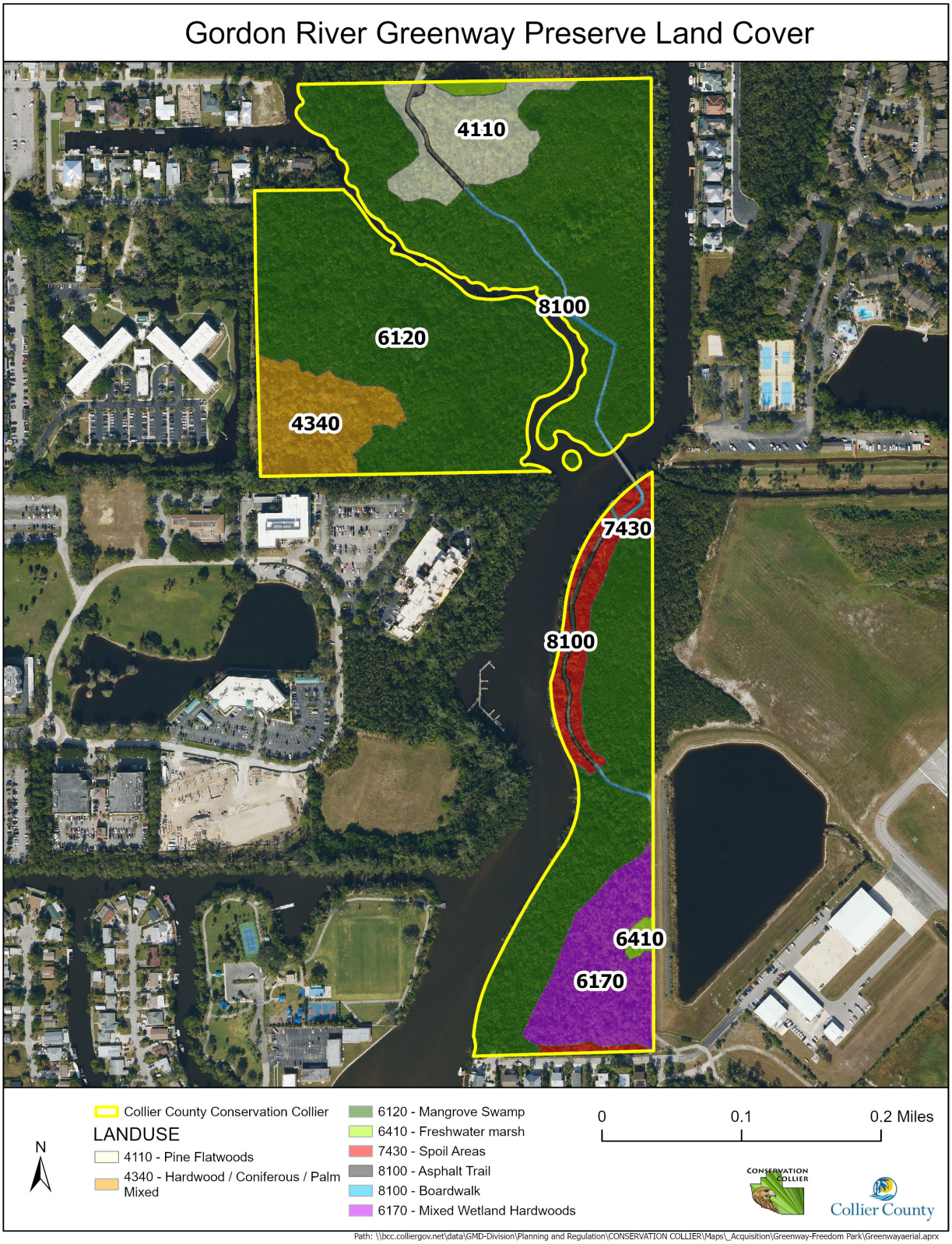

Figure 6: Distribution of Natural Communities on the Gordon River Greenway Preserve

2.3.1 Wetlands: Mangrove Swamp – Disturbed

This land cover occupies ~~77~~74% of the Greenway Preserve. Vegetation present in the wetland canopy includes ~~Australian pine (*Casuarina* sp.), 4~~red mangrove, black mangrove, white mangrove, buttonwood (*Conocarpus erectus*), and cabbage palm (*Sabal palmetto*). A sub-canopy is present along the edges of this wetland and is comprised of ~~Brazilian pepper (*Schinus terebinthifolia*),~~ seagrape (*Coccoloba uvifera*)~~,~~ and wild lime (*Zanthoxylum fagara*). Species found in the herbaceous stratum include crinum lily (*Crinum americanum*), swamp fern (*Telmatob~~B~~lechnum serrulatum*), giant leather fern (*Acrostichum danaeifolium*), golden leather fern (*Acrostichum aureum*), ~~oyster plant (*Tradescantia spathacea*),~~ scorpion~~'s~~ tail (*Heliotropium angiospermum*), seashore paspalum (*Paspalum vaginatum*), pineland heliotrope (*Heliotropium polyphyllum*) and grapevine (*Vitis rotundifolia*).

2.3.2 Wetlands: Mixed Wetland Hardwoods

The canopy ~~along the edge of this community~~ is comprised of laurel oak (*Quercus laurifolia*), slash pine, ~~Australian pine,~~ and cabbage palm~~, and melaleuca (*Melaleuca quinquenervia*).~~ Red mangrove, black mangrove, buttonwood, and white mangrove comprise the other canopy species along the edge of ~~in the mid-zone of~~ this wetland. The sub-canopy consists of ~~Brazilian pepper,~~ gumbo limbo (*Bursera simaruba*), wax myrtle (*Myrica cerifera*), ~~downy rose myrtle (*Rhodomyrtus tomentosa*),~~ white indigoberry (*Randia aculeate*), Spanish stopper (*Eugenia foetida*), ~~shoe button ardisia (*Ardisia elliptica*),~~ and lyonia (*Lyonia ligustrina*). The herbaceous stratum contains sawgrass (*Cladium jamaicense*), black needlerush (*Juncus romerianus*), swamp fern, golden leather fern, and giant leather fern.

2.3.3 Wetlands: Freshwater marsh

This area was previously a monoculture of melaleuca (*Melaleuca quinquenervia*). It now consists primarily of spikerush (*Eleocharis* spp.) and swamp fern, with coco plum (*Chrysobalanus icaco*), wax myrtle, and cabbage palms around the edges.

2.3.~~3~~ 4 Uplands: ~~Other Shrubs and Brush (Scrubby Flatwoods – Disturbed)~~Pine Flatwoods

This area, labeled ~~3279~~ 4110 on Figure 6, is located on the north-central portion of the property, west of the Golden Gate Canal and Bear's Paw Golf Club. This upland area ~~has become~~was previously infested with dense downy rose myrtle. The dominant vegetation is saw palmetto, slash pine, and wire grass ~~and downy rose myrtle~~.

2.3.~~4~~ 5 Uplands: Hardwood/Coniferous/Palm Mix

This native area is located at the southwestern corner of the property and consists of cabbage palm, slash pine, and swamp fern~~, carrotwood (*Cupaniopsis anacardioides*), Brazilian pepper, and Australian pine~~.

2.3.~~5~~ 6 Uplands: Spoil Area – Created Maritime Hammock

A spoil berm exists ~~on~~ along the western edge of the southeastern parcel ~~and~~ that ~~it~~ is most likely a result of the dredging of the Golden Gate Canal. Another spoil area exists along the far southern boundary of the southeastern parcel – just north of Port Ave. ~~This spoil area supports bahia grasses (*Paspalum notatum*), cabbage palm, Brazilian pepper, and several other upland species that have exploited the high ground within the mangrove swamps. The soil is classified as Urban Land-Immokalee-Oldsmar-Limestone substratum which is an upland soil according to the Soil Survey of Collier County, Florida (1998).~~These spoil areas were planted with native Maritime Hammock Species including Jamaican dogwood (*Piscidia piscipula*), gumbo limbo, false mastic (*Sideroxylon foetidissimum*), Spanish stopper, Simpson's stopper (*Myrcianthes fragrans*), white stopper (*Eugenia axillaris*), wild lime (*Zanthoxylum fagara*), snowberry (*Chiococca alba*), firebush (*Hamelia patens*), blue porterweed (*Stachytarpheta jamaicensis*), bird pepper (*Capsicum annuum*), scorpionstail, and dune sunflower (*Helianthus debilis*)

2.4 Native Plant and Animal Species

This section discusses the flora and fauna found within the plant communities described above. The next section (2.5) discusses all listed species in greater detail.

2.4.1 Plant Species

To date, ~~168~~ 259 plant species have been recorded on the preserve (Appendix 3). Mike Kirby, Entrix staff member, conducted a floristic inventory in 2009, and Maureen Bonness, with the assistance of Michael J. Barry, conducted another floristic inventory in 2020. Of these ~~168~~ 259 species, ~~111~~ 200 (~~66~~77%) are native - of which, ~~10~~ 14 are listed by the State of Florida (~~3~~ 4 are listed as endangered; ~~7~~ 10 are listed as threatened). ~~A qualified botanist will conduct another floristic inventory after initial removal of thick invasive, exotic vegetation.~~

2.4.2 Animal Species

Due to the dearth of specific surveys for the occurrence of animal species (in contrast to plants) and the lack of on-site staffing, little is recorded for actual occurrences of animals at the Gordon River Greenway Preserve. Occurrences of fauna at the preserve are based on direct visual and aural observations or observed evidence of activity such as spoor, scat, or burrows by County staff and environmental consultants during site visits. Occurrences are also based on site information available in documents such as the site's initial criteria screening report, the property's interim management plan and anecdotal information from persons with knowledge of the site. Table 4 provides a comprehensive list of animals, both native and non-native, recorded on the Gordon River Greenway Preserve thus far.

Table 4: Faunal Species Recorded on the Gordon River Greenway Preserve

Common Name	Scientific Name
Red imported fire ant [a]	*Solenopsis invicta*
Brown anole [a]	*Anolis sagrei*
Gopher tortoise	*Gopherus polyphemus*
Bald eagle	*Haliaeetus leucocephalus*
Belted kingfisher	*Ceryle alcyon*
Boat-tailed grackle	*Quiscalus major*
Brown pelican	*Pelecanus occidentalis*
Great crested flycatcher	*Myiarchus crinitus*
Great egret	*Ardea alba*
Little blue heron	*Egretta caerulea*
Northern cardinal	*Cardinalis cardinalis*
Osprey	*Pandion haliaetus*
Snowy egret	*Egretta thula*
Solitary sandpiper	*Tringa solitaria*
Swallow-tailed kite	*Elanoides forficatus*
Tri-colored heron	*Egretta tricolor*
Yellow crowned night heron	*Nyctanassa violacea*
Squirrel monkey [a]	*Saimiri sp.*
Nine-banded armadillo	*Dasypus novemcinctus*

a = non-native species

The Florida Breeding Bird Atlas (FWC 2003) lists 50 avian species that have been recorded as confirmed, probable, or possible breeding in the vicinity of the site (Table 5). The Breeding Bird Atlas documents breeding distributions of all bird species in Florida between 1986 and 1991. Some of these species may breed at the Gordon River Greenway Preserve.

Other wildlife species that have not yet been recorded undoubtedly occur at the Gordon River Greenway Preserve. During migration periods, transient bird species would be expected to utilize this area for short periods of time. The developed character of the adjacent areas may inhibit transient use by many mammal, reptile, and amphibian species, thus limiting the utilization of the preserve to resident individuals or inhibiting the dispersal of many species to and from the preserve.

Table 5: Breeding Bird Species Recorded in the Naples South Quadrangle Encompassing the Gordon River Greenway Preserve

Common Name	Scientific Name	Common Name	Scientific Name
American Swallow-tailed Kite	*Elanoides forficatus*	Mangrove Cuckoo	*Coccyzus minor*
Bald Eagle	*Haliaeetus leucocephalus*	Mourning Dove	*Zenaida macroura*
Black Vulture	*Coragyps atratus*	Muscovy Duck	*Cairina moschata*
Blue Jay	*Cyanocitta cristata*	Northern Bobwhite	*Colinus virginianus*
Blue-gray Gnatcatcher	*Polioptilia caerulea*	Northern Cardinal	*Cardinalis cardinalis*
Boat-tailed Grackle	*Quiscalus major*	Northern Flicker	*Colaptes auratus*
Brown Thrasher	*Toxostoma rufum*	Northern Mockingbird	*Mimus polyglottos*

Brown-headed Cowbird	*Molothrus ater*	Osprey	*Pandion haliaetus*
Carolina Wren	*Thryothorus ludovicianus*	Pied-billed Grebe	*Podilymbus podiceps*
Cattle Egret	*Bubulcus ibis*	Pileated Woodpecker	*Dryocopus pileatus*
Chimney Swift	*Chaetura pelagica*	Pine Warbler	*Dendroica pinus*
Common Grackle	*Quiscalus quiscula*	Prairie Warbler	*Dendroica discolor*
Common Ground-Dove	*Columbina passerina*	Purple Martin	*Progne subis*
Common Moorhen	*Gallinula chloropus*	Red-bellied Woodpecker	*Melanerpes carolinus*
Downy Woodpecker	*Picoides pubescens*	Red-shouldered Hawk	*Buteo lineatus*
Eastern Screech-Owl	*Megascops asio*	Red-winged Blackbird	*Agelaius phoeniceus*
European Starling	*Sturnus vulgaris*	Rose-ringed Parakeet	*Psittacula krameri*
Gray Kingbird	*Tyrannus dominicensis*	Ruby-throated Hummingbird	*Archilochus colubris*
Great Crested Flycatcher	*Myiarchus crinitus*	Snowy Egret	*Egretta thula*
Great Egret	*Ardea alba*	Tricolored Heron	*Egretta tricolor*
Great Horned Owl	*Bubo virginianus*	White-eyed Vireo	*Vireo griseus*
Green Heron	*Butorides virescens*	White-winged Dove	*Zenaida asiatica*
House Sparrow	*Passer domesticus*	Wild Turkey	*Meleagris gallopavo*
Least Tern	*Sterna antillarum*	Wilson's Plover	*Charadrius wilsonia*
Little Blue Heron	*Egretta caerulea*	Yellow-crowned Night-Heron	*Nyctanassa violacea*
**** = non-native species***			

2.5 Listed Species

Official lists of rare and endangered species are produced at the federal level by the United States Fish and Wildlife Service and the National Marine Fisheries Service and at the State level by the Florida Fish and Wildlife Conservation Commission (FWC) and the Florida Department of Agriculture and Consumer Services. FNAI produces a list of rare and endangered species, and maintains a database of occurrences of these species in Florida. The Institute for Regional Conservation (IRC) also ranks native plant species by conservation status in the 10-county area of South Florida. The following subsections (2.5.1 and 2.5.2) discuss the listed, rare and protected plant and animal species found within and close to the Gordon River Greenway Preserve in detail.

2.5.1 Listed Plant Species

The Florida State Statute titled "Preservation of native flora of Florida" (Statute 581.185) provides the following definitions:

- Endangered plants means species of plants native to the state that are in imminent danger of extinction within the state, the survival of which is unlikely if the causes of a decline in the number of plants continue, and includes all species determined to be endangered or threatened pursuant to the federal Endangered Species Act of 1973, as amended, Pub. L. No. 93-205 (87 Stat. 884).
- Threatened plants means species native to the state that are in rapid decline in the number of plants within the state, but which have not so decreased in such number as to cause them to be endangered.

- Commercially exploited plants means species native to the state, which are subject to being removed in significant numbers from native habitats in the state and sold or transported for sale.

There are ten (~~10~~14) plant species at Gordon River Greenway Preserve that are listed by the Florida Department of Agriculture and Consumer Services (FDACS), ~~three~~ four (~~4~~3) as endangered and ~~seven~~ ten (10~~7~~) as threatened (Table 6). A brief description of these species and their status is included in the following paragraphs.

Table 6: Listed Plant Species Detected at the Gordon River Greenway Preserve

Common Name(s)	Scientific Name	State
~~Whitewood~~Giant wild-pine, Giant airplant	*Tillandsia utriculata* ~~*Drypetes diversifolia*~~	E
Florida Royal Palm	*Roystonea regia*	E
Stiff-leaved wild-pine, Cardinal airplant	*Tillandsia fasciculata*	E
Curacao bush	*Varronia globosa*	E
Golden leather fern	*Acrostichum aureum*	T
Satinleaf	*Chrysophyllum oliviforme*	T
~~Pricklypear~~Wild cotton	*Gossypium hirsutum* ~~*Opuntia stricta*~~	T
Mullein nightshade	*Solanum donianum*	T
West Indian mahogany	*Swietenia mahagoni*	T
Reflexed wild-pine, Northern needleleaf	*Tillandsia balbisiana*	T
Twisted airplant	*Tillandsia flexuosa*	T
Simpson's stopper	*Myrcianthes fragrans*	T
Florida Key's blackbead	*Pithecellobium keyense*	T
Soft-leaved wild-pine	*Tillandsia variabilis*	T

T: Threatened; **E:** Endangered; **C:** Commercially Exploited

~~Three~~ Five of the ~~ten~~ fourteen listed plant species found on the Gordon River Greenway Preserve are classified as bromeliads. Bromeliads are members of the pineapple family (*Bromeliaceae*). While some of these species may be found growing terrestrially, most native bromeliads found in Florida are found growing attached to tree trunks and branches and may therefore be referred to as epiphytes (a plant that lives upon other plants; from Greek "epi" = upon "phyte" = plant). The leaves and/or roots of these airplants (depending on the species) absorb the water and nutrients they need from the air and from the rain that falls through the canopy of the tree on which they are found. Since epiphytes use their roots only to anchor themselves to another plant, they are considered non-parasitic. Even though the three listed bromeliad species found on the Gordon River Greenway Preserve are fairly common in the state, they are listed due to illegal collecting and the destruction of the habitats in which they are found. Additionally, infestation by the introduced Mexican bromeliad weevil (*Metamasius callizona*) has been implicated in the decline of many airplant populations around the state. Currently, there are no control measures in place however, close research and monitoring is taking place.

Stiff-leaved Wild Pine (*Tillandsia fasciculata*), is also known as cardinal airplant and common wild pine. *T. fasciculata* is listed as an endangered plant by the State of Florida and has been in 24 counties throughout Florida (Wunderlin & Hansen 2008). This epiphyte was frequently found in South Florida before the introduction of the Mexican bromeliad weevil. Today, it may be found in hammocks, cypress swamps and pinelands.



Tillandsia fasciculata;
Photo by Annisa Karim



View of *T. fasciculata* with water in the "tank".
Photo by Annisa Karim

Like most of the other bromeliads in Florida, this species is often referred to as a "tank" bromeliad because the leaf axils and central stems form a "tank" or reservoir at the base of the plant. These reservoirs capture and hold water, dead and decaying plant matter (leaves, seeds twigs, etc.), and dead and drowning non-aquatic insects; these trapped items provide nutrients for the plant (Larson et al. 2006).

Twisted airplant (*Tillandsia flexuosa*) is a slow growing epiphyte found in moist forests and swamps. *T. flexuosa*, also known as banded wild pine is listed as a threatened plant by the State of Florida.



Tillandsia flexuosa;
Photo by T. Ann Williams



Swietenia mahagoni;
Photo by Patricia Howell

West Indian mahogany (*Swietenia mahagoni*)

West Indian mahogany occurs in the West Indies, Bahamas and South Florida. The leaves of the mahogany are unique among North American native trees. They are even-pinnate compound, with three or four pairs of asymmetric leaflets and no leaflet at the tip. *S mahagoni* has been reported from the 5 southernmost counties in Florida (Wunderlin & Hansen 2008).

Mullein nightshade (*Solanum donianum*)

This threatened plant is found growing near the upland spoil within the southern portion of the property. It has been found in 3 South Florida counties (Wunderlin & Hansen 2008).



Solanum donianum;
Photo by T. Ann Williams



~~*Opuntia stricta*;~~*Tillandsia utriculata*
Photo by ~~Keith Bradley~~Kelly Anderson

~~Pricklypear~~ Giant Wild Pine (~~*Opuntia stricta*~~*Tillandsia utriculata*)

~~*O. stricta* is predominantly found within pinelands and coastal uplands throughout Florida where it has been documented in 25 counties~~*T. Utriculata* is present in 33 Florida counties. The largest of the *Tillandsia* species and the largest bromeliad in FL, it is particulary susceptible to damage from the Mexican bromeliad weevil (*Metamasius callizona*) (Wunderlin & Hansen ~~2008~~2011).

This



Chrysophyllum oliviforme;
Photo by Shirley Denton

Satinleaf (*Chrysophyllum oliviforme*)

medium to large sized tree is endemic to peninsular Florida where it has been reported from 10 counties (Wunderlin & Hansen 2008).



Varronia globosa~~Drypetes diversifolia~~;

Photo by ~~T. Ann William~~Keith Bradley~~s~~

~~Whitewood~~ Curacao bush (*Varronia globosa~~Drypetes diversifolia~~*)

This ~~tree~~ plant has only been documented in ~~2~~ 3 counties~~ and its range appears to be limited only to the Florida keys~~ (Wunderlin & Hansen 2008). It is sometimes harvested from the wild for local use as a medicine (Fern 2025).~~Once initial invasive exotic plant removal has occurred within the preserve, a follow-up floristic survey will need to be completed to confirm the presence of this species~~.



Tillandsia balbisiana
Photo by Annisa Karim

Reflexed wild pine (*Tillandsia balbisiana)* is an epiphytic, "tank" bromeliad and is listed as a threatened plant by the State of Florida. Wunderlin and Hansen reported this species in 22 counties throughout Florida as of 2008 (Wunderlin & Hansen 2008). Reflexed wild pine is an occasional species in South Florida and is usually found in scrub, pinelands, strand swamps, hammocks, mangrove swamps and on shell ridges/mounds.



Roystonea regia;
Photo by Shirley Denton

Florida royal palm (*Roystonea regia*)

Although seemingly common, this majestic tree is considered endangered by the State of Florida. Native to the cypress swamps of South Florida and found growing naturally in only 4 counties within the state (Wunderlin & Hansen 2008), this tree is a favorite landscape tree throughout Florida.



Acrostichum aureum;
Photo by Shirley Denton

Golden leather fern (*Acrostichum aureum*)

Native to tidal swamps and marshes, this large fern is found in 9 coastal Florida counties as far north as Hillsborough County (Wunderlin & Hansen 2008).

Wild cotton (*Gossypium hirsutum*)

Now found in 8 counties in Florida, wild cotton was nearly eradicated in Florida between 1933 and 1950 when over 17 million plants were destroyed to protect commercial cotton from the impact of the boll weevil (USDA 1950). It is still illegal to plant this wild cotton in Florida because of a law passed in the early 1900's banning the growing of wild cottons, which can attract boll weevils (FNPS 2025).



Gossypium hirsutum~~*Acrostichum aureum*~~;

Photo by ~~Shirley Denton~~Roger Hammer



Myrcianthes fragrans
~~*Acrostichum aureum*~~;
Photo by ~~Shirley Denton~~Dennis Girard

Simpson's stopper (*Myrcianthes fragrans*) Found in 20 Florida counties, Simpson's stopper is one of the best wildlife plants for Southwest Florida, attracting butterflies with its flowers and birds with its small, red berries.

Florida Keys blackbead (*Pithecellobium keyense*)

Found in 6 Florida counties, this plant serves as a larval host for the Cassius blue and Orange giant sulfer butterflies. The common name refers to the black seeds, which have been used as beads for jewelry (Florida Wildflower Foundation 2025).



Pithecellobium keyense~~*Acrostichum aureum*~~;

Photo by ~~Shirley Denton~~Bob Upcavage

FNAI maintains a database of occurrences of rare, threatened, and endangered species in Florida. An element is any exemplary or rare component of the natural environment, such as a species, natural community, bird rookery, spring, sinkhole, cave, or other ecological feature. An element occurrence is a single, extant habitat that sustains or otherwise contributes to the survival of a population or a distinct, self-sustaining example of a particular element.

These element occurrence data are built into biodiversity matrices. Each matrix encompasses one square mile and includes all species and natural communities tracked by FNAI, including all federal listed species. The FNAI report for the matrix in which the Gordon River Greenway Preserve is located identifies one likely element and eleven potential elements. Of these twelve likely and potential elements, one has been observed on the preserve, namely Florida royal palm (described above). Appendix 4 provides the FNAI Element Occurrence Summary as well as the Biodiversity Matrix Report. Global and state rankings are provided for each species as well as their federal and state status.

2.5.2 Listed Animal Species

Within FNAI's Biodiversity Matrix for the Gordon River Greenway Preserve, two rare wildlife species were documented, two wildlife species were reported as likely to occur (rare species likely to occur on the site based on suitable habitat and/or known occurrences in the vicinity), and twenty species were reported as potential occurrences (site lies within the known or predicted range of species). Global and state rankings are provided for each species as well as their federal and state status.

Table 7 below contains listed species that have been observed in or are likely to occur in the ecosystems of Gordon River Greenway Preserve.

Table 7: Listed Animal Species Observed and Likely to Occur at the Gordon River Greenway Preserve

Common Name(s)	Scientific Name	State	Federal
Eastern Indigo Snake	*Drymarchon corais couperi*	T	T
Gopher Tortoise - observed	*Gopherus polyphemus*	T	
Brown Pelican - observed	*Pelecanus occidentalis*	SSC	
Wood Stork	*Mycteria americana*	E	E
Little Blue Heron - observed	*Egretta caerulea*	SSC	
Reddish Egret	*Egretta rufescens*	SSC	
Snowy Egret - observed	*Egretta thula*	SSC	
Tricolored Heron - observed	*Egretta tricolor*	SSC	
White Ibis	*Eudocimus albus*	SSC	
Roseate Spoonbill	*Platalea ajaja*	SSC	
Big Cypress Fox Squirrel – observed on adjacent Parks and Rec. property	*Sciurus niger avicennia*	T	
West Indian Manatee	*Trichechus manatus latirostris*	E	E

Eastern Indigo Snake (*Drymarchon corais couperi*)

The Eastern indigo snake, a State and federally listed Threatened species, uses a wide variety of habitats in peninsular Florida and may be expected to occupy almost any tract that contains potentially suitable habitat. Typically, within this area of South Florida, the Eastern indigo snake is found in scrubby and pine flatwoods areas with groundcover consisting of palmetto near water, or tropical hammocks, and frequently uses gopher tortoise burrows as refuges. Based on current site characteristics, the amount of suitable habitat, and the population of gopher tortoises present on and adjacent to the site, the probability of Eastern indigo snake occurring on the preserve is high. Increasingly, the United States Fish and Wildlife Service (USFWS) requests implementation of *Standard Protection Measures for the Eastern Indigo Snake* to minimize potential impacts to the snakes during site clearing and construction. Typically, these measures include education of heavy equipment operators to identify and avoid Eastern indigo snakes, requirements that all work stop if an eastern indigo snake is observed, and having an on-call biologist to oversee the construction in potentially suitable habitat.

Gopher Tortoise (*Gopherus polyphemus*)

The gopher tortoise is a state-listed Threatened species that occupies a variety of open, upland habitat characterized by well-drained, sandy soils, some of which are found within the northern upland area of the Gordon River Greenway Preserve. At the request of Collier County and in preparation of planning the park's future layout, ENTRIX ecologists conducted a 100-percent survey (March-April 2008) of the project area to determine the presence of this species. Evidence of gopher tortoises was observed in the ~~scrubby~~ pine flatwoods ~~w/ >50% downy rose myrtle~~ (FLUCFCS ~~3272~~4110). A total of 1 active burrow, 3 inactive burrows, and 9 abandoned burrows were documented by ENTRIX ecologists within the Gordon River Greenway Preserve. ~~Fewer than 5 gopher tortoises may need to be relocated from the parking area near the Naples Zoo within the Gordon River Greenway Park. If possible, these gopher tortoises will be re-located to the 3.9 acres of disturbed Scrubby Flatwoods plant community within the Greenway Preserve, once this area is restored. Staff will coordinate relocation with FWC and Parks and Recreation staff.~~

Brown Pelican (*Pelecanus occidentalis*)

The Brown Pelican is a state-listed Species of Special Concern that requires coastal, mangrove islands for breeding and open saltwater areas for foraging. Limited suitable nesting habitat was observed within the Gordon River Greenway Preserve within a small mangrove island currently used as a rookery site by yellow-crowned night herons (*Nyctanassa violacea*). Extensive foraging opportunities exist within the Gordon River and the Golden Gate Canal.

Listed Wading and Water Birds

Wood Stork (*Mycteria americana*)
Roseate Spoonbill (*Platalea ajaja*)
Little Blue Heron (*Egretta caerulea*)
Snowy Egret (*Egretta thula*)
Tricolored Heron (*Egretta tricolor*)
White Ibis (*Eudocimus albus*)
Reddish Egret (*Egretta rufescens*)

With the exception of the state and federally endangered wood stork, all of the birds listed above are Florida Species of Special Concern. During the extensive fieldwork conducted by ENTRIX ecologists as part of this project, several listed and non-listed wading birds were observed foraging within the exposed and mangrove-dominated shorelines along the Gordon River and Golden Gate Canal. No nesting by listed wading birds were observed, but a small rookery of non-listed yellow-crowned night herons was observed. A review of the FWC online waterbird nesting database, revealed that only one wading bird colony was located within five (5) miles of the project boundary, and this colony has been inactive during the past decade. It is unlikely that nesting by any listed wading bird might occur elsewhere on the project site within the mangrove-dominated wetlands along Gordon River. The project boundary, however, is within the 18.6-mile core foraging area (CFA) of some of the most significant Wood Stork nesting colonies in southwest Florida; especially those at Corkscrew Swamp Sanctuary (Mazziotti 2002). As such, the UFWS ~~will seek~~sought to minimize adverse impacts to wood stork foraging habitat by requiring compensation based on replacing any lost function provided by each wetland type impacted within the boundary of the project area. Wetland impacts ~~must be~~were compensated by offering compensation of wetlands with the same hydroperiod~~, or through purchase of wetland credits within a "Service Approved" mitigation bank~~. The ~~proposed~~ project ~~produces~~ impact~~s to~~ed wood stork core foraging habitat ~~by~~ with the construction of a pedestrian boardwalk through wetlands adjacent to the Gordon River and construction of a pedestrian bridge over the river. Compensation for these ~~proposed~~ impacts ~~will~~ consisted primarily of extensive wetland habitat improvement, resulting from the eradication of nuisance non-native vegetation project-area wide and its long-term management. ~~Currently~~Previously, wetlands located throughout the project area ~~are~~ were virtually unavailable to wood stork foraging because of the dense cover caused by the invasion of these systems by nuisance non-natives. Based on direction provided by the UFWS in their South Florida Programmatic Concurrence for the Wood Stork (November 9, 2007), the extensive habitat improvement ~~proposed should be~~ is considered adequate mitigation for the minor impacts resulting from the proposed construction. Similarly, the project ~~is not likely to~~ did not negatively impact the foraging habitat of state-listed wading birds and ~~is likely to improve~~improved foraging opportunities project-area wide.

The Big Cypress fox squirrel (*Sciurus niger avicennia*)

Also known as the mangrove fox squirrel, the FWC lists this species as threatened in Florida. While the species is widespread in eastern and central North America, the subspecies is endemic to southwestern Florida – specifically in the Immokalee Rise, Big Cypress Swamp, and Devil's Garden area in Collier County. Some areas of this range have become vacated, while many other suitable areas are being altered or becoming isolated through development. The subspecies uses most types of forest occurring in its range. However, dense interiors of mixed cypress-hardwood strands seem to be avoided by Big Cypress fox squirrels due to dense populations of gray squirrels (*Sciurus carolinensis*) occupying these areas. Big Cypress fox squirrels have been reported in cypress swamp, pine flatwood, tropical hammock, hardwood hammock, mangrove swamp, and suburban habitats including golf courses, and residential areas in native vegetation. Big Cypress fox squirrel densities appear to be quite low, and on this basis the subspecies can be considered inherently rare (Humphrey & Jodice 1992).

West Indian Manatee (*Trichechus manatus latirostris*)

The West Indian manatee, is a State and federally listed Endangered species commonly found in coastal, estuarine, and in riverine habitats near coastal areas. Manatees require access to freshwater sources, vascular aquatic plants for foraging, channels of minimum 6-foot depth for movement, and access to natural springs, coves, and warm-water refugia for foraging, mating, and wintering. All of these conditions are found within the Gordon River and Golden Gate Canal areas. The extensive Golden Gate Canal system, dredged in late 1960's, allows boating access to the Gulf of Mexico for several single- and multi-family developments. This canal system flows into Naples Bay. The West Indian manatee is drawn to and capable of accessing the inland canal system, rivers, and bays near the project site to feed, calve, and mate. According to the *Collier County Manatee Protection Plan* (May, 1995), the Golden Gate Canal/Gordon River area is not a significant area for manatee population concentrations or mortality within the County. As such, this region has been designated as a "Slow Speed" zone year round, including the channel (68C-22.023(1)(c)2. Naples Bay south of Gordon River is designated as an "Idle Speed" zone all year round including the channel (68C-22.023(1)(b)1). According to the FWC Research Institute's ~~2007~~ 2024 Manatee Mortality Report, ~~three~~ one (1~~3~~) manatee death~~s~~ occurred within a one (1) mile radius of the preserve boundary, and ~~.~~ ~~None of these mortalities were~~ it was attributed to a boating collision~~s or other human-related causes, but were natural or prenatal causes~~. Based on these results, the impact to manatees and their habitat ~~should be~~ has been minimal. Impacts ~~are~~ were largely confined to those associated with the construction of an elevated boardwalk through a portion of the coastal mangrove forest and a pedestrian bridge across the Gordon River. Installation of these structures and selection of materials ~~will~~ used Best Management techniques to minimize impacts to the surrounding habitat. Footers for the pedestrian bridge ~~will be~~were installed in the adjoining mangroves to avoid any construction or obstruction within Gordon River that might impact manatees or their movements. Collier County ~~will~~ implemented the FWC's *Standard Manatee Conditions for In-Water Work* (July 2005) for all bridge and boardwalk work conducted within Gordon River to ensure the safety of manatees.

2.6 Invasive, Non-native and Problem Species

In an ecological context, an invasive species is one that is aggressive in growth and expansion of range and tends to dominate others; its establishment and dominance can cause widespread harm to an ecological system by altering the species composition, susceptibility to fire and hydrology of an area. Non-indigenous species (i.e., non-native or exotic species) are those that have been introduced purposefully or accidentally to an area outside their normal range. The characteristics of some of these species (high rate of growth/reproduction, no natural predators, easily dispersed, able to out-compete native species) make them invasive. Some indigenous species (a species whose natural range included Florida at the time of European contact circa 1500 AD or a species that has naturally expanded or changed its range to include Florida) may also become invasive. Invasions by native and non-native species often follow an alteration to ecosystem function, disruption of the food web, large-scale fragmentation of an ecosystem and/or disturbance (e.g., clearing, fire, drought, etc) of an area. While some native species may become invasive, the establishment and dominance of non-native species is of particular concern. The exotic plant and animal species documented within the preserve and those that have a potential to occur within the preserve are discussed in the following sections.

2.6.1 Invasive and Problem Plant Species

The Florida ~~Exotic Pest Plant~~Invasive Species Council (~~FLEPPC~~FISC) maintains a list of exotic plants that have been documented to (1) have adverse effects on Florida's biodiversity and plant communities, (2) cause habitat loss due to infestations and (3) impact endangered species via habitat loss and alteration. To date, ~~57~~ 59 non-indigenous plant species have been detected within Gordon River Greenway Preserve, accounting for ~~34~~11% of the plant species recorded there. Of these ~~57~~ 59 exotic species, 46 can be considered invasive (Table 8), and ~~38~~ 34 are listed by ~~FLEPPC~~ FISC (~~21~~ 23 Category I and ~~17~~ 11 Category II). ~~FLEPPC~~ FISC defines Category I plants as those that alter native plant communities by displacing native species, change community structures or ecological functions, or hybridize with natives. Category II plants have increased in abundance or frequency but have not yet altered Florida plant communities to the extent shown by Category I species. These definitions do not rely on the economic severity or geographic range of the problem, but rather on the documented ecological damage caused by these plants (FLEPPC 2007). Preserve lands will be maintained free of both Category I and II exotic plants.

Table 8: Invasive Plant Species at Gordon River Greenway Preserve

Common Name	Scientific Name	~~FLEPPC~~ FISC Category
Air potato	*Dioscorea bulbifera*	I
American evergreen	*Syngonium podophyllum*	I
Asian sword fern	*Nephrolepis brownii (=N. multiflora)*	I
Australian umbrella tree	*Schefflera actinophylla*	I
Australian pine	*Casuarina* sp.	I
Balsam apple	*Momordica charantia*	
~~Bamboo~~	~~*Bambusa* sp.~~	
~~Beauty leaf~~	~~*Calophyllum antillanum*~~	
Bishopwood	*Bischofia javanica*	I
Brazilian pepper	*Schinus terebinthifolius*	I
Caesarweed	*Urena lobata*	II
Carrotwood	*Cupaniopsis anacardioides*	I
~~Castorbean~~	~~*Ricinus communis*~~	~~II~~
China brake~~berry tree~~	*Pteris vittata*~~*Melia azedarach*~~	II
~~Coral vine~~Coconut palm	*Cocos nucifera*~~*Antigonon leptopus*~~	II
Cogongrass	*Imperata cylindrica*	I
Crow's-foot grass	*Dactyloctenium aegyptium*	II
Downy rosemyrtle	*Rhodomyrtus tomentosa*	I
Earleaf acacia	*Acacia auriculiformis*	I
Green shrimp plant	*Ruellia blechum*	II

~~Florida tassleflower~~	~~*Emilia fosbergii*~~	
Guineagrass	*Panicum maximum*	II
Indian laurel	*Ficus microcarpa*	I
~~Java Plum~~	~~*Syzygium cumini*~~	~~I~~
Lantana	*Lantana camara*	I
~~Latherleaf~~	~~*Colubrina asiatica*~~	~~I~~
Leadtree	*Leucaena leucocephala*	II
~~Life plant~~	~~*Kalanchoe sp.*~~	~~II~~
~~Limpo grass~~	~~*Hemarthria altissima*~~	~~II~~
~~Mahoe~~	~~*Talipariti tiliaceum*~~	~~II~~
Malabar plum	*Syzygium jambos*	
Melaleuca	*Melaleuca quinquenervia*	I
~~Mother-in-law's tongue~~	~~*Sansevieria hyacinthoides*~~	~~II~~
~~Napiergrass~~	~~*Pennisetum purpureum*~~	~~I~~
Oyster-plant	*Tradescantia spathacea*	II
~~Paper mulberry~~	~~*Broussonetia papyrifera*~~	~~II~~
Rosary pea	*Abrus precatorius*	I
~~Royal Poinciana~~	~~*Delonix regia*~~	
~~Senegal date palm~~	~~*Phoenix reclinata*~~	~~II~~
~~Septicweed~~	~~*Senna occidentalis*~~	
Shoebutton ardisia	*Ardisia elliptica*	I
Shrubby false buttonweed	*Spermacoce verticillata*	
~~Simpleleaf chastetree~~	~~*Vitex trifolia*~~	~~II~~
Small-leaf climbing fern	*Lygodium microphyllum*	I
Torpedograss	*Panicum repens*	I
Tropical almond	*Terminalia catappa*	II
Tuberous sword fern	*Nephrolepis cordifolia*	I
Turkeyberry	*Solanum torvum*	II
Valamuerto, Christmas cassia	*Senna pendula var. glabrata*	I
Wedelia	*Sphagneticola trilobata*	II
West Indian dropseed	*Sporobolus jacquemontii*	I
W~~oman's Tongue~~ild bushbean	*Macroptilium lathyroides*~~*Albizia lebbeck*~~	I~~I~~

The following paragraph outlines the methods that will be used to treat exotics dependent on the species type and location of treatment.

~~Most w~~Woody invasive species, with the exception of ~~Australian pine and~~ downy rosemyrtle, will be killed in place with a dye-laced herbicide. Melaleuca and other exotic plants within the Mixed Wetland Hardwoods ~~Disturbed~~ community may be hand cut and removed from the site or mechanically cleared, depending upon density of the exotic vegetation and soil moisture conditions. Downy rosemyrtle will be mowed in place and re-sprouts treated if density of plants and soil moisture conditions allow. Where machinery cannot be used, downy rosemyrtle will be hand cut at base, left on-site, and stumps sprayed with an appropriate herbicide. If hand cut downy rosemyrtle density is high, the preserve manager may opt to remove plant debris. ~~All Australian pines growing adjacent to the Gordon River and canal, and all Australian pines growing over 20 feet in height will be cut and removed from site. A barge will be necessary to mobilize equipment and tree debris. A suitable staging area for the barge and tree debris will need to be identified. All Australian pines growing under 20 feet in height and growing at least~~

~~20 feet inward from the shoreline and 20 feet away from the boardwalk/trail will be killed in place.~~ All herbaceous invasive exotic vegetation will be treated via foliar application. Invasive vines may be treated via foliar application or cut-stem application.

2.6.2 Invasive and Problem Animal Species

Although Florida does not have an official exotic, invasive animal species list, at least 400 exotic fish and wildlife animal species have been reported in Florida, and approximately 125 species are established.

~~Three~~ Four non-indigenous, animal species have been documented on the preserve: green iguanas (*Iguana iguana*), squirrel monkeys (*Saimiri* sp.), red imported fire ants (*Solenopsis invicta*), and brown anoles (*Anolis sagrei*). Brief descriptions of documented and undocumented but potentially problematic species are provided in the following paragraphs.

Green Iguana (*Iguana iguana*): documented within the Gordon River Greenway Preserve

The green iguana is native to Central America, tropical parts of South America, and some eastern Caribbean islands. The reptile species was first reported in Florida in the 1960s, when they were accidentally brought from Cuba via cargo ships (Nordling 2024). In April 2021, green iguanas were added to Florida's Prohibited Species List due to the damage they cause to residential and commercial landscape vegetation and their potential threat to native species (FWC). Green iguana population will be controlled as necessary through trapping or other humane means.



~~Squirrel Monkey troops~~ Green Iguanas have been observed within the Gordon River Greenway Preserve. Photo courtesy of ~~veeriku.tartu.ee~~FWC



Squirrel Monkey troops have been observed within the Gordon River Greenway Preserve. Photo courtesy of

Squirrel Monkey (*Saimiri* sp.): documented within the Gordon River Greenway Preserve

Squirrel monkeys are native to the tropical forest canopy layers of Central and South America. They are omnivores, eating primarily fruits and insects, but occasionally eating nuts, buds, eggs and small vertebrates (Groves 2005). Groups of free- roaming squirrel monkeys have existed within the vegetated areas surrounding The Naples Zoo but have not been seen for many years. The monkeys ~~have been~~ used to be observed within the Gordon River Greenway Preserve.

Red imported fire ant (*Solenopsis invicta*): documented within the Gordon River Greenway Preserve



Solenopsis invicta, an invasive, non-indigenous arthropod documented within the Gordon River Greenway Preserve. Photo courtesy of the USDA.

These social insects were introduced into the U.S. from Brazil into either Mobile, Alabama or Pensacola, Florida between 1933 and 1945 (Collins & Scheffrahn 2005) and have been detected in the Gordon River Greenway Preserve. Red imported fire ants (RIFA) have been documented to cause harm to humans and wildlife as well as economic harm (Stimac & Alves 1994; Collins & Scheffrahn 2005; Willcox & Giuliano, 2006). RIFAs are omnivorous, but they prefer insects as their primary food source (Willcox & Giuliano 2006). RIFAs have a number of impacts on wildlife; in many areas, they have eliminated native ant populations through competition and predation and have eradicated food sources utilized by some wildlife species. Ground-nesting wildlife is especially susceptible to RIFAs. Within the Gordon River Greenway Preserve, RIFAs have the potential to affect ground-nesting birds; small mammals; reptiles, native lizard and snake species, and native invertebrates (Willcox & Giuliano 2006). Additionally, members of the public that come into contact with RIFAs may be harmed if stung. Many people have anaphylactic reactions to the toxins released from RIFA stings.

Brown Anole (*Anolis sagrei*): documented within the Gordon River Greenway Preserve



Anolis sagrei, an invasive, exotic reptile documented in the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Also known as the Cuban anole, the brown anole is native to Cuba, the Bahamas, and neighboring islands (Schwartz & Henderson 1991). Like other anoles from the islands, this species is a small, tropical, diurnal, arboreal, territorial, and insectivorous lizard (Campbell 2001). The brown anole was first documented in the Florida Keys in the late 1800s (Lee 1985) and has since spread throughout Florida, into Georgia and into two other southeastern states (Campbell 1996). The brown anole is a habitat generalist and generally prefers the fairly open areas of disturbed sites. It feeds on a wide variety of insects, amphipods, and isopods. Brown anoles also prey on other small vertebrates including the hatchlings of the native green anole (*A. carolinensiis;* Campbell 2000).



Anolis carolinensiis, an ***indigenous*** reptile documented in the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Campbell (2000) showed that, in the absence of the exotic brown anoles, native green anoles occupy perches from ground to the canopy of vegetation. However, in the presence of the exotic anole, native anoles move higher in trees, occupying only the trunk and crown of trees. Dietary overlap is high between both species, but the overall affects of the brown anole on the green anole are still undetermined.

Cuban tree frog (*Osteopilus septentrionalis*): undocumented within the Gordon River Greenway Preserve



Osteopilus septentrionalis, an invasive, exotic amphibian that has the potential to occur at the Gordon River Greenway Preserve. Photo courtesy of the USGS.

Like the Cuban anole, the Cuban tree frog is native to Cuba, the Bahamas, and neighboring islands. The first Cuban tree frogs probably arrived in the Florida Keys as stowaways in shipping crates originating from the Caribbean in the 1920's. Today, they have established breeding populations as far north as Cedar Key on Florida's Gulf Coast, Jacksonville on the Atlantic Coast, and Gainesville in north-central Florida. These hylids are the largest tree frog found in Florida and because of their ability to invade natural areas and prey on native invertebrates and small vertebrates (including native tree frogs) they are considered an invasive species. Additionally, the tadpoles of this species inhibit the growth and development of the tadpoles of the native southern toad (*Bufo terrestris*) and green tree frog (*Hyla cinerea*). Cuban tree frogs thrive in residential and natural areas such as pine forests, hardwood hammocks, and swamps. In residential settings, they are most commonly found on and around homes and buildings, and in gardens and landscape plants. They are known to get into transformer boxes and electrical switches causing power outages (Johnson 2007). Due to the natural communities that are found within the Gordon River Greenway Preserve and its proximity to residential areas, this species has the potential of occurring in the preserve.

Giant Marine Toad or Cane Toad (*Bufo marinus*): undocumented within the Preserve



Bufo marinus, an **invasive, exotic** amphibian that has the potential to occur at the Gordon River Greenway Preserve. Photo courtesy of the USGS.



Bufo terrestris, a **native toad** that looks similar to the exotic, invasive cane toad. Photo courtesy of the USGS.

The cane toad is a tropical species native to the Amazon basin in South America, and its range extends through Central America to extreme southern Texas along the Rio Grande River. They are used as a control agent for insects that damage sugarcane and consequently, are one of the most introduced amphibian species in the world. In 1936, an attempt was made to introduce this species into Palm Beach County, FL. This attempt failed as did two subsequent efforts. Ironically, in 1955, an accidental release by an importer at the Miami International Airport in Miami-Dade County, FL proved successful. They have since been deemed an invasive species in Florida and are currently found in urban areas of south and central Florida, and are rapidly expanding northward (Brandt & Mazziotti 2005). Many of this species' characteristics enable it to do well in south Florida. Beetles, bees, ants, winged termites, crickets and bugs are a large part of the diet of the adult marine toad. Additionally, they consume arthropods, mollusks, small vertebrates, plant matter, pet food, carrion, household scraps, marine snails, smaller toads and native frogs, small snakes,

and even small mammals. Marine toads are prolific breeders and females can lay tens of thousands of eggs in a single breeding season. They prefer forested areas with semi permanent water nearby (Churchill 2003). The cane toad looks very similar to the native, southern toad, but there are some distinct differences. The most obvious difference is adult body size (length of body not counting the legs). Adult marine toads can reach lengths of 6 -9 inches while the native southern toads only reach a length of 3.6 inches. Like other true toads, both possess poisonous, parotid glands. The ***parotid glands*** of the cane toad are angled downward behind their head to their shoulders. The southern toad has a kidney-shaped parotid gland behind each eye positioned close to the spine. The southern toad also possesses ***cranial crests*** that start between the eyes and often end in big knobs. While the parotid glands of all toads contain bufotoxins (poisonous, milky fluids exuded as a defense mechanism), the chemicals released by the exotic, cane toad are much more harmful to wildlife, pets and people (Brandt & Mazziotti 2005). Due to the natural communities that are found within the Gordon River Greenway Preserve and its proximity to residential areas, this species has the potential of occurring within the preserve. Adjoining residents of the preserve should be encouraged to keep pet food and water containers indoors or empty at night.

Feral domestic cat *(Felis catus):* undocumented within the Gordon River Greenway Preserve

Domestic cats originated from an ancestral wild species, the European and African wildcat (*Felis silvestris*). Humans facilitated the global distribution of cats due to their highly efficient predatory skills. Egyptians took cats with them on shipping vessels to keep rodent populations down, and they likely introduced domestic cats to Europe. Subsequently the expansion of the Roman Empire and European missionary missions facilitated the spread of domestic cats into Asia and beyond (Masterson 2007). Today, the impact of feral cats on wildlife is difficult to quantify; however, literature (FWC 2001; Karim 2007; Masterson 2007) strongly indicates that they are a significant factor in the mortality of small mammals, birds (including migratory birds), reptiles, and amphibians in Florida. Because free-ranging cats often receive food from humans, they may reach abnormally high numbers. An increase in the population of feral cats may lead to increased predation rates on native wildlife. While no cats have yet been observed on the Gordon River Greenway Preserve, there exists a high probability of their future presence on the preserve due to the proximity of the Greenway to human residential areas. Adjoining residents of the preserve should be encouraged to keep their cats indoors and staff should monitor the preserve for the presence of feral cats.

3.0 Previous and Current Use of the Preserve; Adjacent Land Uses

3.1 Previous Use of the Preserve and Adjoining Lands

Historical aerial photographs taken in 1952 (Figure 7) and in 1980 (Figure 8), accompanied by more recent visits to the site, show that development has never occurred on the site; however, portions of the property adjacent to the northwestern end of the Naples Airport runway appear to have been cleared prior to 1980. Digital images were downloaded from the Florida Department of Transportation's Aerial Photo Look Up System (2008) and georeferenced in ArcMap 9.2 by Conservation Collier Staff.

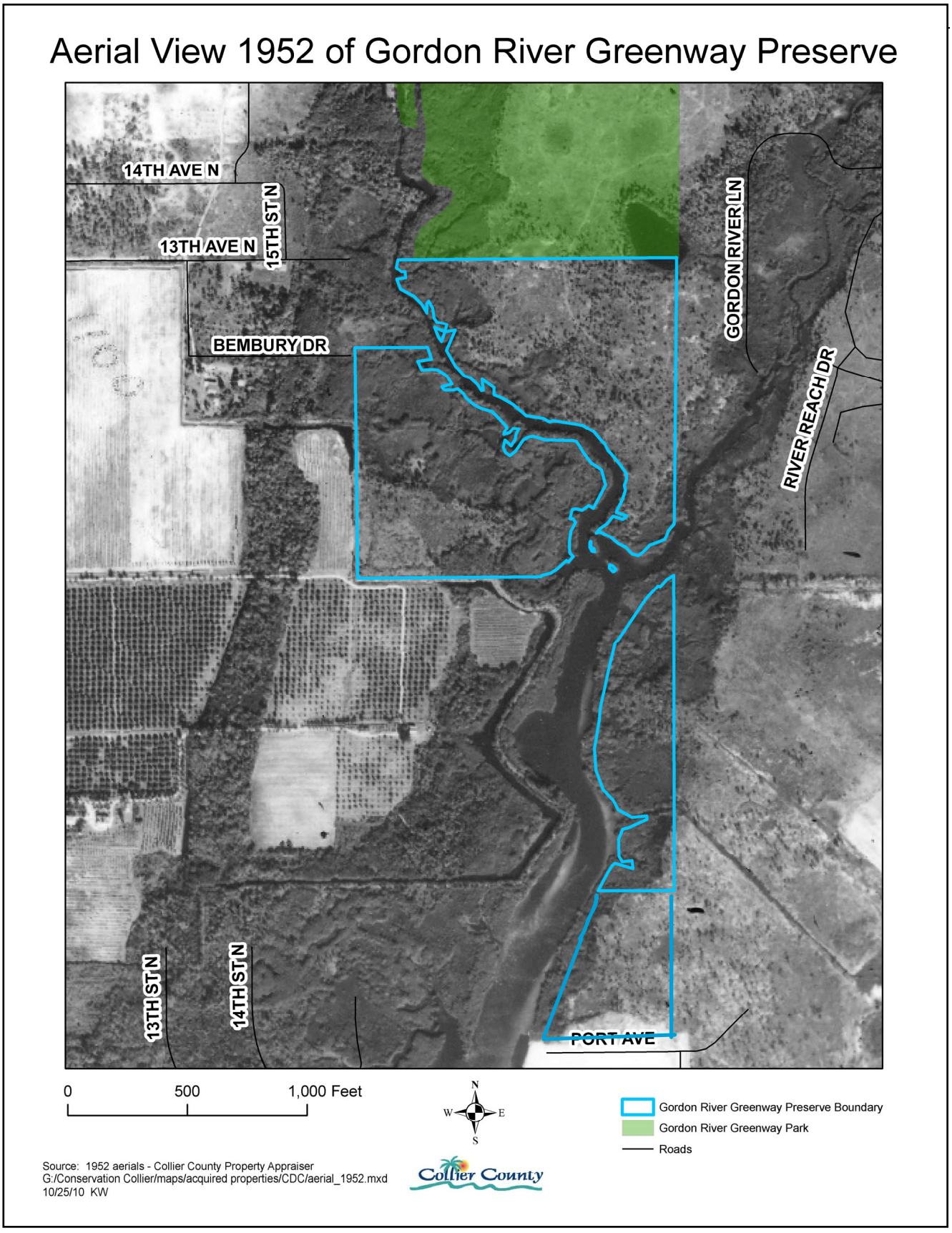

Figure 7: Historical Aerial Photograph from 1952 of the Gordon River Greenway Preserve and Adjoining Lands

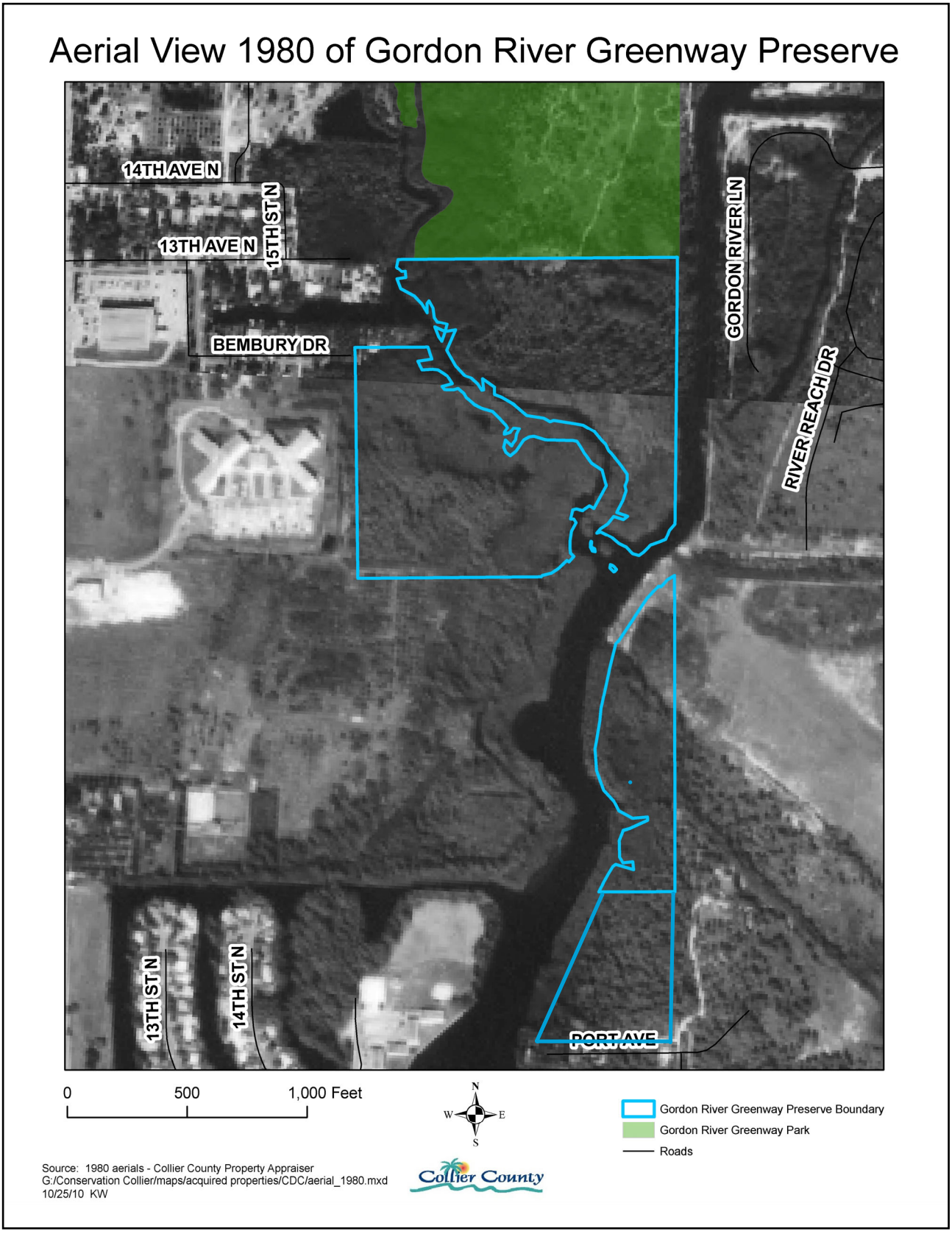

Figure 8: Historical Aerial Photograph from 1980 of the Gordon River Greenway Preserve and Adjoining Lands

3.2 Current Land Uses

~~Currently, there is no sanctioned public use of t~~The Gordon River Greenway Preserve has been incorporated into the Gordon River Greenway Park's public use plan. The asphalt trails, boardwalks, and bridges connect and provide a seamless, cohesive experience for the public using the trails. Hiking and bicycling are allowed on the trail system.~~ Conservation, restoration and natural resource-based recreation are the designated uses of this preserve. Management activities allowed include those necessary to preserve, restore, secure and maintain this environmentally sensitive land for the benefit of present and future generations. Public use of the site must be consistent with these management goals and will be discussed in section 4.4 of this document.

The Collier County Parks and Rec. owned Gordon River Greenway Park property abuts the northern property line of the preserve. The preserve is surrounded on both the east and west by planned unit developments consisting of both residential and commercial properties. The City of Naples municipal boundary borders the project on the west. The Naples Airport is adjacent to the southeastern boundary of the preserve, and ~~an undeveloped property, zoned R-1-7.5,~~ Port Ave. is adjacent to the south boundary of the preserve. The Gordon River bisects the northern portion of the property and forms the western boundary of the southern portion of the property. The Golden Gate Canal forms the eastern boundary of the northern portion of the property (Figure 9).



Figure 9: Areas Adjacent to the Gordon River Greenway Preserve

3.3 Cultural, Historical and Archeological Resource Protection

The Gordon River Greenway Preserve is within an area of historical and archaeological probability. A phase one cultural resource assessment completed by the Archaeological and Historical Conservancy, Inc. (AHC) in August 2007 indicates that one archaeological site (8CR978) is present on the property. AHC determined that Site 8CR978 is a prehistoric shell refuse site, consisting of redeposited remains; the total loss of integrity renders the site ineligible for listing on the National Register of Historic Places. The Florida Department of State Division of Historical Resources does not require further investigation of Site 8CR978 prior to development of a trail system through Gordon River Greenway Preserve; however, site plans will avoid disturbance in this area.

The County will notify the Division of Historical Resources immediately if evidence is found to suggest any other archaeological or historic resources are discovered. If such resources are identified on-site, staff shall cordon off the area, and a professional survey and assessment shall be instituted. The archaeologist shall prepare a report outlining results of the assessments and issue recommendations to County staff about management of any sites discovered, per provisions of the Land Development Code Section 2.2.25. This report shall be sent to the Division of Historical Resources. The County shall cooperate fully with direction from the Division of Historical Resources on the protection and management of archaeological and historical resources. The management of these resources will comply with the provisions of Chapter 267, Florida Statutes, specifically Sections 267.061 2 (a) and (b).

3.4 Major Accomplishments during Previous Years

Since the acquisition of the Gordon River Greenway Preserve, Kimley-Horn and Associates, Inc. ~~has been hired to~~ planned, designed, and permitted the preserve in conjunction with planning, designing, and permitting the Parks and Rec. property adjacent to the north. Manhattan Construction completed the park in November 2014, and it was officially opened to the public on November 6, 2014. As part of the project, all tall Australian pine and melaleuca trees near the trails were cut and removed, thick downy rosemyrtle was mowed, and all other invasive vegetation was treated in place. ~~A 30% design was near completion at the time this management plan was drafted. Conservation Collier staff has also continues to explore options of funding exotic removal and boardwalk construction through grants from the Department of Environmental Protection.~~

4.0 Future Use of the Gordon River Greenway Preserve including Management Issues, Goals and Objectives

This section describes the main management issues, goals, and objectives for the Gordon River Greenway Preserve as well as the overall management framework. Central to the management of the Preserve is the mission of the Conservation Collier Program, and the goals and objectives set forth in this management plan.

4.1 Management Plan Framework

Each property purchased by Conservation Collier shall have its own management plan. At the time the Gordon River Greenway Preserve was purchased, the Conservation Collier Ordinance required that an "Interim" Management Plan be developed within 60 days of closing. Interim plans include basic items such as removal of invasive exotics and trash, establishing site security, developing management partnerships and planning for public access. The interim plan for this site was officially approved in July 2006. The ordinance then ~~requires~~ required a "Final" ten-year management plan be developed within two years; the first draft of this management plan was submitted to the Lands Evaluation and Management Subcommittee in November 2010. Because it was anticipated that the Gordon River Greenway Preserve would be incorporated into the Gordon River Greenway Park management plan, staff received BCC approval to extend the deadline for submission of the final management plan until October 2010. This updated management plan was drafted in July 2025. Once approved, it~~this final management plan~~ must be reviewed every ~~five~~ ten years. Final management plans, however, are considered living documents and can be updated at any time. Review of all management plans start in the Lands Evaluation and Management subcommittee and must be approved by both the CCLAAC and BCC.

4.1.1 Preserve Manager: Contact Information

The site manager for Gordon River Greenway Preserve will be a designated Collier County Environmental Specialist who may be contacted through electronic mail: ConservationCollier@~~Colliergov.net~~colliercountyfl.gov.

4.2 Planned Uses and Assessment of their Impacts

Future planned use will be consistent with the primary goals of conservation, preservation, restoration and maintenance of the resource. ~~Official public use of the site will not be possible until a safe public access boardwalk and trail can be created. However, citizens that desire to visit the site prior to opening may do so by signing a waiver that will allow them access at their own risk and releases the liability of the County until safe access is established. Details of planned uses for the Gordon River Greenway Preserve and an assessment of their potential impacts are provided in the following sections.~~

4.2.1 Identification of Public Uses Consistent with Preservation, Enhancement, Restoration, Conservation and Maintenance of the Resources

The Conservation Collier Ordinance 2002-63, as amended constrains the use of this property to "primary objectives of managing and preserving natural resource values and providing appropriate natural resource-based recreational & educational opportunities." Natural resource-based recreation shall mean all forms of uses, which are consistent with the goals of this program, and are compatible with the specific parcel. Such uses may include, but are not limited to hiking, nature photography, bird watching, kayaking, canoeing, swimming, hunting and fishing (Ord. No. 02-63, as amended§ 5, 12-3-02). Additionally, no dumping, use of unauthorized vehicles, or removal or destruction of natural or historical/archaeological resources

will be permitted within the preserve. The goal is to allow limited, non-destructive public access to native plant communities and animal species. Currently, the preserve rules are those identified in Collier County Ordinance 76-48 (available from www.municode.com), as amended.

The following are ***consistent*** uses for this particular site: hiking, nature photography, kayaking, canoeing, fishing and bird watching. ***Inconsistent*** uses include hunting and off road vehicle use (ORV) in addition to development of structures other than those required for limited public access and environmental education.

There are no existing easements, concessions, or leases at the Gordon River Greenway Preserve. In accordance with the management goals of the preserve, no future easements, concessions, or leases are appropriate in association with this site, other than conservation related easements. Although not an easement, it is prudent to note that the property boundary of Nature Pointe of Naples, Inc. extends across the Golden Gate Canal and encompasses all lands approximately 30 feet west of the western canal edge. ~~These lands, which line the Golden Gate Canal and are directly adjacent to the Gordon River Greenway, are currently infested with mature Australian pine trees.~~

4.3 Desired Future Conditions

This section includes a description of the proposed future conditions for the site's natural areas. Management techniques to achieve these conditions are outlined in section 4.4.

After managers complete recommended management actions, Gordon River Greenway Preserve will consist of Mangrove Swamp, ~~Scrubby~~ Pine Flatwoods, Freshwater Marsh, Harwood/Coniferous/Palm Mixed, and Mixed Wetland Hardwoods; these communities will have a similar structure and composition to those that existed before non-indigenous people settled the region and before the exclusion of fire. With the exception of a boardwalk and trail, the site will be vegetated with appropriate native flora that will provide suitable cover for a variety of wildlife species.

4.4 Goals for the 10 year period ~~2010~~2025-~~2020~~2035

A set of goals and objectives for Gordon River Greenway Preserve were developed in conjunction with the drafting of this Management Plan. The goals and objectives in this plan are tailored specifically for Gordon River Greenway Preserve based on the purposes for which the lands were acquired, the condition of the resources present, and the management issues for the property. On-site managers should be familiar with this entire Management Plan. Goals and objectives from the ~~Interim~~ Initial Management Plan for the Gordon River Greenway Preserve were reviewed to determine whether they should be included in this plan. The goals and objectives presented here reflect programmatic goals and ideas of Conservation Collier personnel in charge of managing and protecting the area. These goals shall not be modified, but specific application of management techniques may take into consideration input by user groups and other stakeholders from outside the program, accommodating user needs and desires where practicable and where overarching management goals are not violated.

Management issues are discussed below in separate sections. Within each section, approaches for dealing with these issues are described. The ability to implement the specific goals and

objectives identified in this ~~plan is dependent~~plan depends upon the availability of funding sources. The following goals have been identified for Gordon River Greenway Preserve:

Goal 1: Remove or control populations of invasive, exotic or problematic flora and fauna

Goal 2: Develop a baseline monitoring report

Goal 3: Restore and maintain native habitats

Goal 4: Develop and implement a plan for public use consistent with environmental protection

Goal 5: Facilitate uses of the site for educational purposes

Goal 6: Determine if prescribed fire and/or mechanical treatments are feasible to decrease woody invasion resulting from past fire exclusion; if so proceed

Goal 7: Provide a plan for security and disaster preparedness

GOAL 1: *REMOVE OR CONTROL POPULATIONS OF INVASIVE, EXOTIC OR PROBLEMATIC FLORA AND FAUNA*

~~**Action Item 1.1 Coordinate with the Naples Airport Authority prior to removal of large Australian pines**~~

~~Some of the Australian pines within the Greenway Preserve are within the flight path of the City of Naples' Airport runway. The Naples Airport Authority may have funding to assist with removal of large Australian pines from the preserve.~~

Action Item 1.~~2~~ 1 Coordinate with Parks and Rec. prior to exotic plant ~~removal~~ treatments in order to reduce ~~equipment~~ mobilization costs

Action Item 1.~~3~~ 2 Acquire services of licensed and qualified contractor(s) for the removal of invasive, exotic or problematic plant species.

The following (Table 9) describes recommended controls (Langeland & Stocker 2001) of the Category I, invasive, exotic plant species recorded to date on the Gordon River Greenway Preserve. These recommended control methods may be altered by site managers dependent on new information and products available on the control of these species.

Table 9: Invasive, Exotic Plant Species Control Plan for the Gordon River Greenway Preserve FLEPPC Category I species [a]		
Common Name	**Scientific Name**	**Recommended Control(s)[b]**
Air potato	*Dioscorea bulbifera*	Manual: cut vines that are high in trees; cut bulbils and remove from site. Dig up underground tubers if possible. Foliar: 1%-2% Roundup or Touchdown Pro. Cut stem: 10% Garlon 4.
American evergreen	*Syngonium podophyllum*	Manual: hand pull vegetation and remove from site or destroy (place in plastic bags until decomposed). Foliar: 3% Garlon 4. Basal stem: 10% Garlon 4. Multiple treatments are required.
Australian umbrella tree	*Schefflera actinophylla*	Large individuals (>10 inches diameter) have proven extremely difficult to eradicate. Cut stump (recommended): 50% Garlon 3A or 10% Garlon. Basal bark (if a cut-stump treatment is not possible): wide band of 10% Garlon 4 on smaller individuals and 20% Garlon 4 on larger individuals. It may take up to 9 months to kill large trees.
Australian pine	*Casuarina* sp.	Basal bark treatment with 10% Garlon 4 is very effective, as is a cut-stump treatment with 50% Garlon 3A or 10% Garlon 4. When basal bark treatment is used on trees greater than 1 foot in diameter it may be necessary to slough off loose bark in the application area to prevent the bark from trapping the herbicide. Broadcut or 4-6 lb Velpar ULW may be used when appropriate.
Bishopwood	*Bischofia javanica*	Basal bark: 10%-20% Garlon 4. Frill/girdle (larger trees): 20% Garlon 4. Manual: hand pull seedlings.
Brazilian pepper	*Schinus terebinthifolius*	Hand pull seedlings or cut-stump treatment with 50% Garlon 3A, 10% Garlon 4 or a basal bark application of 10% Garlon 4. Foliar application of Garlon 4, Garlon 3A, Roundup Pro, Roundup Super Concentrate, or Rodeo, according label directions may be used where appropriate. Glyphosate products are less effective when used alone in spring and early summer. Use Rodeo where plants are growing in aquatic sites.
Carrotwood	*Cupaniopsis anacardioides*	Hand pull seedlings or basal bark application of 100% Pathfinder II, or 10%-20% Garlon 4 diluted with oil; or cut stump application of 10% Garlon 3A, 100% Brush-B-Gon, 100% Roundup Pro, 100% Rodeo, or equivalent glyphosate containing product, or 100% Pathfinder II.
Downy rosemyrtle	*Rhodomyrtus tomentosa*	Basal bark or cut stump (individual plants): 10%-20% Garlon 4. Re-treatmentmay be necessary. Foliar: 1% Arsenal + 2% Roundup or 2 quarts Vanquish/acre in 50 gallons spray volume.
Indian laurel	*Ficus microcarpa*	Basal bark: 10% Garlon 4.
Java Plum	*Syzygium cumini*	Cut stump: 50% Garlon 3A or 10% Garlon 4. Basal bark: 10%-20% Garlon 4 or Pathfinder II.
Lantana	*Lantana camara*	Basal bark: 10% Garlon 4. Cut stump: 50% Garlon 3A or 10% Garlon 4.
Latherleaf	*Colubrina asiatica*	Basal bark: 10%-20% Garlon 4 or undiluted Pathfinder II. Cut-stump: 50% Garlon 3A. Foliar: 3% Garlon 3A or Garlon 4. Follow up for 3 to 4 weeks. Manual: hand pull seedlings.
Melaleuca	*Melaleuca*	For seedlings and saplings: (1) hand pull, being sure not to break plant off of root system and remove or place in piles to help reduce

	quinquenervia	the chance that they will re-root or; (2) Treat with foliar, low volume spot application of 5% Rodeo. For mature trees: (1) Fell large trees with chain saw leaving a level surface, or fell small trees with machete and treat with triclopyr or glyphosate products according to frill and girdle directions on SLN. Use aquatic versions where standing water is present. Monitor for resprouting and retreat as necessary. (3) Mature trees are very difficult to control with foliar applications.
Napiergrass	*Pennisetum purpureum*	Foliar: 1%-3% Roundup. If nontarget damage is a concern, cut stems to ground level and allow sprouts to reach 8-12 inches and treat the same as Neyraudia. Broadcast 3-5 quart/acre Roundup Pro, 2 quart/acre Arsenal, or 1 quart Arsenal and 2 quart Roundup Pro.
Rosary pea	*Abrus precatorius*	Basal stem: 10% Garlon 4. Foliar: 5% Roundup (low volume). Remove seed pods if possible. Site must be revisited several times to pull seedlings.
Shoebutton ardisia	*Ardisia elliptica*	Basal bark: 10% Garlon. Cut stump: 50% Garlon 3A. Manual: hand pull seedlings.
Small-leaf climbing fern	*Lygodium microphyllum*	Foliar: For ground applications, cut plants that grow high into trees; thoroughly spray foliage to wet with 1%-2% Roundup or Rodeo, 2% Garlon 3A, 1% Plateau, or equivalent of 1-2 ounces Escort XP/100 gallon diluent; light infestations use 2%-4% Roundup or Rodeo (low volume). For aerial application, 7.5 pints Rodeo or 2 ounces Escort XP in sufficient volume and using spray pattern to maximize coverage.
Torpedograss	*Panicum repens*	Foliar: 0.75% - 1.5% Rodeo and/or 0.5% Habitat, 4 pints Habitat per acre, or 5%Rodeo low volume spot treatment.
Valamuerto	*Senna pendula var. glabrata*	The following foliar applications on a spray-to-wet basis have been found effective: 1.0% Roundup Pro, 0.5% Garlon 3A + 0.375% Induce, 0.50 oz/gal Escort + 0.375% Induce, 3.13% Brush-B-Gon. Basal bark application of 10% Garlon 4 in oil is used by the Southwest Florida Water Management District (Mack Sweat, 2003 personal communication).
Woman's Tongue	*Albizia lebbeck*	Basal bark: 20% Garlon 4 or undiluted Pathfinder II. Cut stump: 50% Garlon 3A or 10% Garlon 4, follow-up treatments necessary for root sprouts with 10% Garlon 4.

[a] ~~FLEPPC 2007~~FISC 2025: **Category I plants** are those that alter native plant communities by displacing native species, change community structures or ecological functions, or hybridize with natives.
[b] Langeland & Stocker 2001

Action Item 1.~~4~~ 3 Enact regular maintenance events ~~a maximum of 3 months after initial exotic removal~~for invasive plant species

A qualified, licensed contractor will be hired to do follow-up maintenance ~~immediately following initial maintenance~~as needed. ~~Growth of vines and category II exotic species may be intense following initial removal of monocultures of category I species within the preserve. Treatment may be necessary within one month of initial removal, but should be completed no later than three months within the first two years after initial removal. If necessary, the preserve should be swept monthly for the first year after initial treatment.~~ Monitoring of re-growth and new invasions should be done ~~monthly~~at a minimum of annually, and follow-up treatments should be done based upon findings during monitoring.

Action Item 1.~~5~~ 4 Avoid non-target damage to native plants and animals, especially rare species, during invasive, exotic plant treatments.

Decisions on the types of herbicides utilized will be made based on the best information available at the time of exotic removal. Staff has prohibited the use of herbicides containing Imazapyr (e.g., Arsenal) due to reports that these herbicides have potentially caused a great deal of non-target damage throughout the state. Licensed County or State contractors have been (and will be) monitored closely to ensure the proper herbicide applications are being utilized while treating the site. In addition, close attention will be paid to identify listed epiphytes (Table 7) that may be attached to invasive trees being cut down or removed. Plants of these species will be relocated prior to removal. Special attention will be given to avoid damage to native species in the vicinity of exotic removal activities. Hand pulling of exotic seedlings will be done when possible.

Action Item 1.~~6~~ 5 Monitor non-native fauna

To date, ~~three~~ four (~~4~~3) introduced animal species have been documented on the Gordon River Greenway Preserve, the green iguana, the squirrel monkey, the RIFA and the brown anole.

It is doubtful that the total eradication of the RIFA can be achieved. However, staff and/or contractors should take measures to remove RIFA populations close to or on public access trails.

Should the green iguana population begin to be detrimental to the native flora and fauna, an animal control company contracted with the County will be employed to control their population. Although they do not appear to be a detriment to the preserve, public interaction with the squirrel monkeys within the preserve should be discouraged. If the squirrel monkey population within the preserve appears to be increasing, monitoring of the population should be implemented.

If feral cat colonies are found near the preserve, the elements that sustain the undesirable population(s) should be identified and efforts made to ask property owners to eliminate them (i.e., refuse bins, dumpsters, and supplementary feeding by humans). If any feral cats remain, they will be trapped and taken to Collier County Domestic Animal Services.

GOAL 2: *DEVELOP A BASELINE MONITORING REPORT*

Action Item 2.1 Establish a long-term biological monitoring program and conduct additional wildlife surveys.

Long-term management of the preserve should be based on biological data. Changes following baseline conditions should be assessed as negative or positive, and management strategies changed appropriately. This section discusses information needs and long-term monitoring needs.

ENTRIX staff conducted a floristic inventory of the Gordon River Greenway Preserve in 2009; these findings comprise the baseline floristic data on which future actions will be based. Another floristic inventory was conducted by Boondocks Botany in 2020. The site should be inspected by Conservation Collier Staff at least twice a year and thoroughly inventoried at regular intervals (ca. 5-10 years) to detect new invasions (by natives or exotics) and extinctions. Areas undergoing extreme restoration should be assessed more frequently. While some wildlife data has been collected, additional baseline data should be collected, especially on invertebrates, small mammals, reptiles, and amphibians. The site manager may contract this work out or enlist

the assistance of local educators to coordinate student research projects. Wildlife sampling, like plant sampling, on non-listed species only, should take place at regular intervals (ca. 5-10 years) to detect long-term trends.

Prior to restoration, photo point stations will be established within the different plant communities throughout the preserve. Locations of photo points will be recorded with a GPS and all photographs will be taken at a standard height and angle of view. During photo documentations, one photo will be taken in each of the cardinal directions (north, east, south and west). These photos will help to monitor exotic removal and native plant recruitment over time. If necessary, more photo points will be established to aid in management decision activities.

GOAL 3: *RESTORE AND MAINTAIN NATIVE HABITATS*

Action Item 3.1 Identify locations of rare and listed native plant species.

The location of these species will be identified using a global positioning system (GPS) device and mapped to allow staff to monitor them. Public trails ~~will be~~ were constructed to avoid areas where rare and listed species existed.

Action Item 3.2 ~~Enforce regulations prohibiting~~Control trash in or near the preserve.

Parks and Recreation s~~S~~taff will monitor the trails on a regular basis, emptying trash and recycling bins on a regular basis. ~~and if excessive dumping or littering start to occur, enforcement actions will be sought through the County Sheriff's Department.~~

Action Item 3.3 Maintain a revised GIS map and description of FNAI natural communities and disturbed areas on the property.

Maintaining updated maps will help to guide restoration efforts

Action Item 3.4 Plant native plant species in their appropriate habitats

Periods following exotic removal and prescribed fire (or mechanical treatment) are essential to the recruitment of native plants. If native plant recruitment is not sufficient from the surrounding, intact seed source, efforts will be made to plant indigenous flora in appropriate habitats. Natural area restoration of Gordon River Greenway Preserve should include only site-specific native plant material that has been determined to be non-problematic at the site and whenever possible, site-specific seed sources should be utilized.

Action Item 3.5 Install signs encouraging people to stay on ~~any future~~ public access trails situated on the preserve.

Action Item 3.6 Note and research all site development occurring adjacent to Gordon River Greenway Preserve to determine that the proper site development permits have been obtained and that the site development complies with the permits.

Activities on adjacent lands may have an impact on the indigenous plant and animal life on the Gordon River Greenway Preserve. As such, all existing local, state, and federal regulations should be strictly followed and enforced during any site development adjacent to the preserve. It shall be the responsibility of the developer to establish erosion control measures and vegetation protection measures (i.e., protective fencing or barriers). If any site developer working in areas adjacent to the preserve does not take the necessary control measures, construction shall be

immediately halted until control measures are put into place and mitigation and/or remediation will be the sole responsibility of the developer.

GOAL 4: ~~*DEVELOPAND*~~ *IMPLEMENT A PLAN FOR PUBLIC USE*

~~**Action Item 4.1 Continue to coordinate design and permitting plans with Parks and Rec. through Kimley-Horn and Associates, Inc. (Kimley-Horn)**~~

~~Kimley-Horn was selected to plan, permit and design (PPD) the Gordon River Greenway Park by Parks and Rec. via the Collier County Request for Proposal process. Prior to executing a contract with Kimley-Horn, Conservation Collier coordinated with Parks and Rec. to include the Gordon River Greenway Preserve in the Gordon River Greenway Park PPD process. This allows Collier County to PPD one single project instead of two separate projects. Kimley-Horn is responsible for designing and permitting the boardwalks, trails, shade structures/rest pavilions, observation overlook, fishing platform, educational signage and pedestrian bridge within the Gordon River Greenway Preserve.~~

Action Item 4.~~2~~ 1 Maintain visitor amenities a minimum of 100 feet from known yellow-crowned night heron rookery island

The yellow-crowned night heron is a colonial nester in swamps and marshes. A yellow-crowned night heron rookery exists on a small mangrove island at the southern extent of the project, located at the intersection of Gordon River and the Golden Gate Canal. Efforts ~~will be~~were made to locate the bridge as far away from this rookery as possible. Signs placed around the island to keep kayakers/ canoers and boaters away from the island may be installed if necessary.

~~**Action Item 4.3 Identify actual and potential locations of other resident animal life and take steps such as locating visitor amenities away from animal nesting sites.**~~

~~**Action Item 4.4 Develop access and required facilities for intended public uses**~~

~~Kimley-Horn site plans for the project, dated January 25, 2011, are currently at 30% design. See Figure 10. To be consistent with the overall project, preserve boardwalk widths will be 10 feet; trail widths will be 12 feet. Trail system will follow the approximate alignment as shown in Figure 11; however, installation of all boardwalks and trails will be field located to ensure the least impact to native vegetation. ADA trails are anticipated to occur within the upland portions of the preserve. If funding allows, a raised boardwalk trail will replace the at grade ADA trail through the scrubby flatwoods section of the preserve.~~

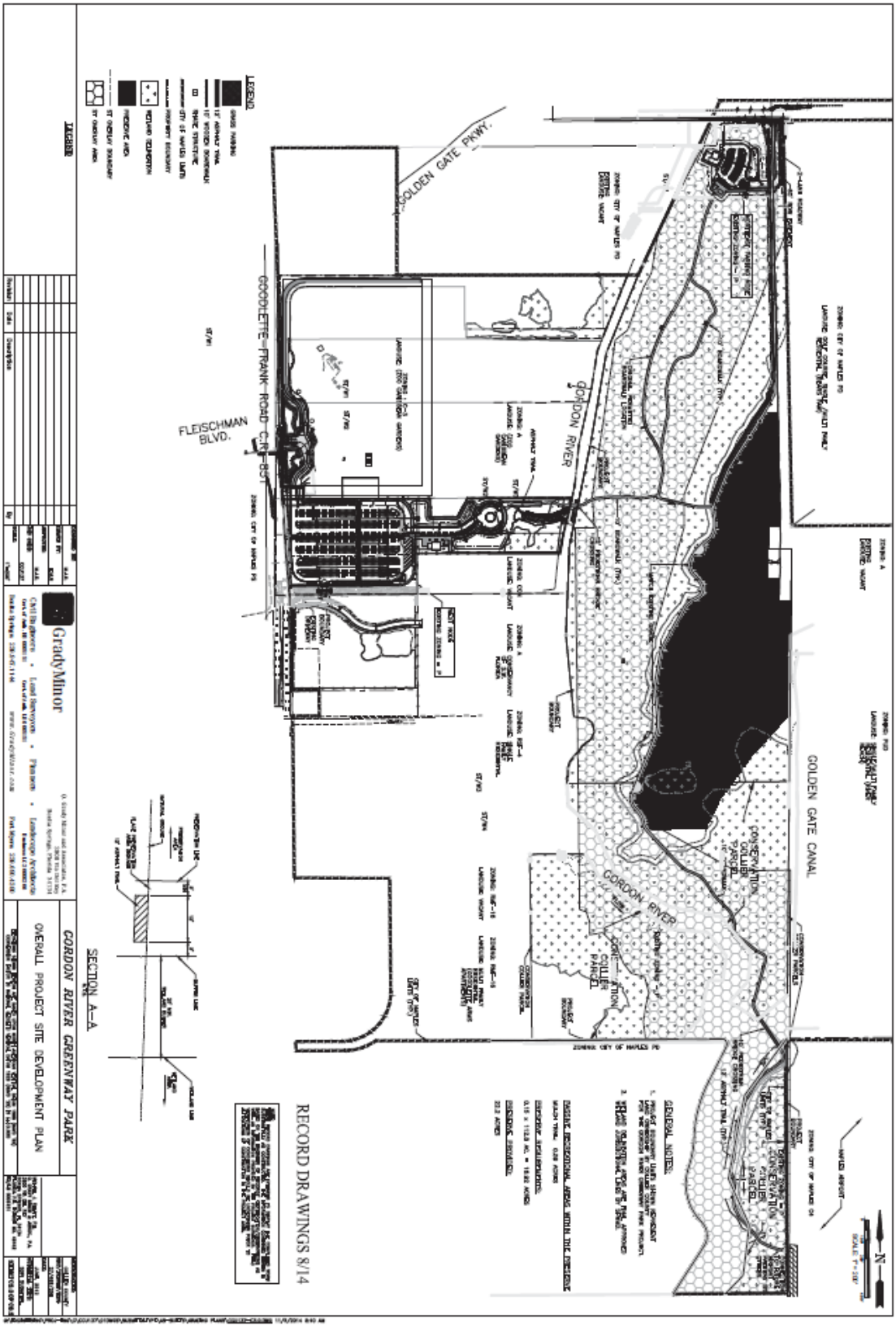

Figure 10: Gordon River Greenway Park ~~30% Site Construction Plan~~100% Construction Plan - ~~Kimley-Horn~~Grady Minor, ~~1/25/11~~June 2012

~~**Figure 11: Gordon River Greenway Preserve 30% Site Construction Plan – Kimley-Horn, 1/25/11**~~

GOAL 5: *FACILITATE USES OF THE SITE FOR EDUCATIONAL PURPOSES*

~~**Actions Item 5.1 Provide preserve brochures in rainproof box on site.**~~

~~A brochure outlining the native plant communities and wildlife present at the preserve will be created by County staff and kept in rainproof boxes near the preserve entrance. The preserve manager will inspect these boxes monthly and refill as necessary.~~

Action Item 5.2 Facilitate Parks and Rec. educational programs

~~Once the boardwalk, trails and bridge are complete,~~ If Parks and Rec. staff ~~will begin~~performs educational programs along the Gordon River Greenway extending into the preserve~~.~~. Conservation Collier program staff will cooperate with them~~Parks and Rec.~~ and assist whenever possible. Appropriate signage will be utilized for public education regarding resource conservation.

GOAL 6: *DETERMINE IF PRESCRIBED FIRE AND/OR MECHANICAL TREATMENTS ARE FEASIBLE TO DECREASE WOODY INVASION RESULTING FROM PAST FIRE EXCLUSION; IF SO, PROCEED*

Action Item 6.1 Coordinate with Parks and Rec. to see if the adjacent Gordon River Greenway Park should be included within the burn management zones of the Gordon River Greenway Preserve.

Action Item 6.2 Develop a prescribed fire or mechanical treatment plan to mimic natural fires within the scrubby flatwoods plant community.

Unless absolutely necessary, fire breaks should not be created along ecotones. Firebreaks along ecotones prevent fires from burning across the landscape between different habitat types, and the trails themselves destroy habitat for species that require specific ecotonal habitats.

The ~~scrubby~~ pine flatwoods community within the preserve should be burned at an interval of 8-25 years. Summer headfires will probably be needed to ensure that most vegetation ignites and that the fire moves across the habitat. For best results, prescribed fire management should begin after permanent firebreaks have been established. Prior to any prescribed fires, burn teams should assess fuel loads and conduct fuel reduction where necessary, conduct risk assessment for the planned burn, obtain appropriate permits, and coordinate with local fire officials. Exotic plant species in particular should be removed prior to fires. Additionally, a plan of action for the Preserve Manager to notify surrounding residents should be established.

If the application of prescribed fire is absolutely impossible there are several alternatives that are available, although much less desirable. These options include herbicide application, mechanical treatment, and grazing. Both herbicide application and mechanical treatments have the disadvantage of requiring that dead woody material be removed from the site following treatment, limiting the amount of decomposing vegetation that would create organic soils. Even

with physical removal after treatment, organic matter from all plants on the sites will eventually accumulate, leaving an organic soil, and thereby reducing diversity of native herbs. Grazing, such as by goats, has the disadvantage ~~in~~ of introducing trampling effects, nutrients from feces, and possible spread of exotic pest plant seeds. Staff will coordinate with the ~~Florida Division of Forestry's~~Florida Forest Service's Urban Fire Mitigation Team to create a burn plan for the site, conduct pre-fire fuel reduction and firebreak creation, and to conduct prescribed burns.

Action Item 6.3 If fire is deemed appropriate, delineate fire management and rescue access routes, and provide this information to the police department and emergency services.

***GOAL 7**: PROVIDE A PLAN FOR SECURITY AND DISASTER PREPAREDNESS*

Action Item 7.1 Discourage any visitation to the park after hours.

Electronic, timed gates ~~will be installed~~exist at all entrances of the County's Greenway project. These gates ~~will~~ open and close automatically when the preserve is open and closed respectively. While the preserve is closed, visitors will be able to open the gates to leave the preserve, but not to enter. A sign designating the Greenway hours of operation is~~will be~~ installed at the 2 entrances to the preserve.

Action Item 7.2 ~~Determine whether s~~Security lighting ~~is appropriate~~ along the trail system within the preserve.

Security within the preserve is inherently connected to security throughout the entire Greenway system. ~~If lighting for security purposes is determined to be necessary, l~~Lighting within the preserve should be the minimum required and should be focused down toward the trail, so as to minimize light pollution.

Action Item 7.2 Enforce regulations prohibiting trash and landscape debris dumping in or near the preserve.

Currently, there is no vehicular access and dumping is not a problem. Monthly inspections will determine if dumping becomes a problem. Staff will work with the Collier County Sheriff's Office to address dumping if it becomes a problem.

Action Item 7.3 Survey trees along the trail and the perimeter of the property annually for damage

Staff will utilize the services of a certified arborist to determine diseased, weak, or damaged trees/limbs surrounding the trails and kiosks that should be removed for safety reasons and prior to hurricane season. This activity is intended to reduce the risk of visitor injury.

Action Item 7.4 Visit preserve within 48 hours after a storm event to assess damage.

Staff will take photos of damage and fill out appropriate Collier County Risk Management Department forms. If damage is extensive, the preserve will be closed until public safety hazards are cleared.

Action Item 7.5 Promptly clear storm debris from preserve.

Collier County will coordinate with the Parks and Recreation Division for clean-up. If necessary, a Collier County emergency debris removal contractor will be contracted as soon as possible after the storm to schedule clean-up. Removal of debris and damaged or downed

trees along the trail system may be needed. Downed trees and limbs that do not appear to be a public safety hazard will be cleared at the discretion of the Preserve Manager. As much hurricane debris as possible will be chipped and retained on-site – to be used as mulch for the trail.

4.5 Establish an Operational Plan for the Gordon River Greenway Preserve

This section provides management recommendations for operation of the Gordon River Greenway Preserve. It discusses maintenance and budgeting needs, coordination, and other management issues.

4.5.1 Maintenance

The primary maintenance activities for the preserve will include control of dumping and littering within and around the preserve and trail. Particularly important are the security measures to keep vandals out and the signage and gates in good conditions. The boardwalk and pedestrian bridge should be inspected annually for structural integrity.

4.5.2 Estimated Annual Costs and Funding Sources

~~Preliminary b~~Budget estimates for Gordon River Greenway Preserve include cost breakdowns associated with resource restoration and management and public access site ~~development~~management. The funding source identified for these activities is the Conservation Collier Program Management Trust Fund. Grants will be sought to supplement existing management funds~~ and specifically for the costs associated with the construction of the boardwalk and pedestrian bridge~~.

The budget in Table 10 represents the actual and unmet budgetary needs for managing the lands and resources of the preserve for the next ten years. The table shows the activities planned and the ~~initial and~~ annual cost estimate of each activity. This budget was developed using data from Conservation Collier and other cooperating entities, and is based on actual costs for land management activities, equipment purchase and maintenance, and for ~~development~~ maintenance of fixed capital facilities. The budget considers available funding and is consistent with the direction necessary to achieve the goals and objectives for Gordon River Greenway Preserve.

Table 10: Estimated Annual Land Management Budget

Table 10: Estimated Annual Land Management Budget (Amounts in $; see assumptions for cost estimates on next page)													
Item	**QTY**	**Cost ($)**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**Total**
Facilities Development													
Boardwalk [1]	1,500 - 2,255 LF	$590 / LF		$885,000 or $1,330,450									**$885,000** or **$1,330,450**
Trails [2]	1015 - 1770 LF	$26.66 / LF		$27,060 or $47,200									**$27,060** or **$47,200**
Pedestrian Bridge	1			$384,000									**$384,000**
Shade Structures	3	$10,000 ea		$30,000									**$30,000**
Entry Gate [3]	1	$5,000 ea		$5,000									**$5,000**
Security Lighting				$285,300	$1,700	$1,700	$1,700	$1,700	$1,700	$1,700	$1,700	$1,700	**$285,300**
Interior interpretive signs [4]	3	$2,000 ea		$6,000									**$6,000**
Plant signs	30	$10			$300								**$300**
Restoration/Monitoring		t.b.d.											**t.b.d.**
Establish photo points	recurring	n/a											**$0**
Remove exotics [5]	43.54 acres			$996,000	$35,000	$35,000	$17,700	$17,700	$9,200	$9,200	$9,200	$9,200	**$1,138,200**
Regular Maintenance													
Reduce Fuel Loads [6]	2	$2,000		$2,000					$2,000				**$4,000**
General Facilities Maintenance	8	$720			$720	$720	$720	$720	$720	$720	$720	$720	**$5,760**
Brochures					$300	$100	$100	$100	$100	$100	$100	$100	**$1,000**
Grand Total				**$2,640,500 or $3,065, 810**	**$38,020**	**$37,520**	**$20,220**	**$20,220**	**$13,720**	**$11,720**	**$11,720**	**$11,720**	**$2,791,760 or $3,217,070**

Table 10: Estimated Annual Land Management Budget (Amounts in $; see assumptions for cost estimates on next page)													
Item	**QTY**	**Cost ($)**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**Total**
Facilities Maintenance													
Boardwalk [1]	1,500 LF	$590 / LF						$885,000					**$885,000**
Pedestrian Bridge	1							$384,000					**$384,000**
Shade Structures	3	$10,000 ea						$30,000					**$30,000**
Interior interpretive signs [2]	3	$2,000 ea					$6,000						**$6,000**
Plant signs	30	$10			$300					$300			**$600**
Restoration/Monitoring													
Remove exotics [3]	51.05 acres		$16,000	$16,000	$16,000	$16,000	$16,000	$16,000	$16,000	$16,000	$16,000	$16,000	**$160,000**
Regular Maintenance													
Reduce Fuel Loads [4]	2	$2,000		$2,000					$2,000				**$4,000**
General Facilities Maintenance	8	$720	$720	$720	$720	$720	$720	$720	$720	$720	$720	$720	**$7,200**
Grand Total			**$16,720**	**$18,720**	**$17,020**	**$16,720**	**$22,720**	**$1,315,720**	**$18,720**	**$17,020**	**$16,720**	**$16,720**	**$1,476,800**

Assumptions for Cost Estimates

1. Boardwalk: The length of the ADA compliant, sustainably harvested hardwood, raised boardwalk will be between 1,500 LF at $590/LF = $885,000 ~~if the boardwalk does not extend into scrubby flatwoods, and 2,255 LF at $590/LF = $1,330,450 if the boardwalk extends into scrubby flatwoods.~~ Unit price includes required materials, labor and equipment – comparable to Freedom Park

~~**2. Trails:** The length of an impervious trail will be between 1,015 LF at $26.66/LF = $27,060 if the boardwalk does not extend into the scrubby flatwoods, and 1,770 LF at $26.66/LF = $47,200 if the boardwalk extends into scrubby flatwoods~~

~~**3. Entry Gates:** 1 electronic security gate at $5,000.00 each (if deemed necessary)~~

4~~2~~. **Interpretive Signs:** 3 interpretative signs (4'x6') at $2,000 each - comparable to Freedom Park

5~~3~~. **Remove Exotics:** Exotic removal estimate from County contractor

6~~4~~. **Reduce Fuel Loads:** Reduction of dense fuels in scrubby flatwoods - $2000 every 5 years

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Appendix 1. Legal Description of Gordon River Greenway Preserve

PROPERTY TAX IDENTIFICATION NUMBER: 00268160009

THE SOUTHEAST (SE¼) QUARTER OF NORTHEAST (NE¼) QUARTER AND THAT PART OF THE NORTHEAST (NE¼) QUARTER OF THE SOUTHEAST (SE¼) QUARTER OF SECTION 34, TOWNSHIP SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, LYING EAST OF THE CREEK, LESS AND EXCEPT THE FOLLOWING TWO PARCELS:

ALL THAT TRACT OF PARCEL OF LAND LYING AND BEING IN THE NORTHEAST (NE1/4) QUARTER OF SECTION 34, TOWNSHIP SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION OF THE EAST BOUNDARY OF STORTER SUBDIVISION WITH THE NORTH RIGHT-OF-WAY LINE OF A CANAL, RECORDED IN PLAT BOOK 5, PAGE 106; RUN IN A NORTHERLY DIRECTION 149.00 FEET, MORE OR LESS, TO THE SOUTH BOUNDARY OF GORDON RIVER HOMES SUBDIVISION, RECORDED IN PLAT BOOK 2, PAGE 84; THENCE IN AN EASTERLY DIRECTION ALONG WITH THE SOUTH BOUNDARY OF GORDON RIVER HOMES A DISTANCE OF 133.00 FEET, MORE OR LESS, TO THE MEAN HIGH WATER LINE OF GORDON RIVER; THENCE IN A SOUTHEASTERLY DIRECTION FOLLOWING THE MEANDERINGS OF THE M.H.W. LINE OF GORDON RIVER TO THE EASTERLY EXTENSION OF THE NORTH RIGHT-OF-WAY LINE OF THE CANAL IN STORTER SUBDIVISION AS RECORDED PLAT BOOK 5, PAGE 106; THENCE IN A WESTERLY DIRECTION ALONG THE EASTERLY EXTENSION OF THE NORTH RIGHT-OF-WAY LINE OF SAID CANAL TO THE POINT OF BEGINNING.

AND

A PORTION OF THE SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER, SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT KNOWN AS "POINT OF ENDING OF BULKHEAD LINE NUMBER 3" AS SHOWN AND DESCRIBED ON THE BULKHEAD LINE PLAT, RECORDED IN BULKHEAD LINE PLAT BOOK 1 AT PAGE 24, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA; RUN SOUTH 89° 42' 36" EAST, ALONG SAID BULKHEAD LINE NUMBER 3, FOR 217.80 FEET; THENCE RUN SOUTH 29° 16' 45" EAST, STILL ALONG SAID BULKHEAD LINE, FOR 144.56 FEET; THENCE RUN NORTH 89° 42' 36" WEST, FOR 289.14 FEET, TO THE WEST LINE OF THE SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER OF SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA, SAID POINT BEING ON THE NORTHERLY RIGHT-OF-WAY LINE OF BEMBURY DRIVE BY POSSESSION AS MONUMENTED ON THE GROUND, SAID POINT BEING 362.32 FEET SOUTH OF THE NORTHWEST CORNER OF SAID SOUTHEAST (SE ¼) QUARTER OF THE NORTHEAST (NE ¼) QUARTER AS SHOWN ON SAID BULKHEAD PLAT (SURVEYOR'S NOTE: THE NORTHERLY RIGHT-OF-WAY LINE OF BEMBURY DRIVE IS SHOWN AS BEING 360 FEET SOUTH OF SAID NORTHWEST CORNER ON PLAT OF STORTER SUBDIVISION AS RECORDED IN PLAT BOOK 5, PAGE 106, PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA); THENCE RUN NORTH 0° 17' 24" EAST, ALONG THE AFOREMENTIONED WEST LINE FOR 125.73 FEET TO THE POINT OF BEGINNING; CONTAINING 0.732 ACRES; TOGETHER WITH ALL RIPARIAN RIGHTS, INCLUDING ANY LAND CONTIGUOUS TO, AND WATERWARD OF, THE HEREIN DESCRIBED PORTION OF BULKHEAD LINE NUMBER 3.

CONSISTING OF 43.54 ACRES, MORE OR LESS.

AND

PROPERTY IDENTIFICAT10N NUMBER1 20760080007

THE NORTHEAST QUARTER (NE ¼) OF SOUTHEAST QUARTER (SE ¼) OF SOUTHEAST QUARTER (SE ¼) OF SECTION 34, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA

CONSISTING OF 7.51 ACRES, MORE OR LESS.

Appendix 2. Vegetation Scheme Crosswalks/ Florida Natural Areas Inventory Plant Community Classifications

South Florida Vegetation Classification Scheme Crosswalks for Plant Communities Observed on the Gordon River Greenway Preserve									
EVSC^		FFWCC^	FLGAP^		FLUCCS^		MSRP^	FNAI*	
ID	*Name*	*Name*	*ID*	*Name*	*ID*	*Name*	*Name*	*Name*	
FM	Mangrove forest	Mangrove Swamp	9	Mixed Mangrove Forest Formation	612	Mangrove swamps	Mangroves	Mangrove Swamp	
FMa	Black mangrove forest		10	Black Mangrove Forest					
FM1	White mangrove forest		11	Red Mangrove Forest					
FM1b	White mangrove or buttonwood forest		20	Buttonwood Woodland					
FMr	Red mangrove forest		21	Mixed Mangrove Woodland					
FMx	Mixed mangrove forest		22	Black Mangrove Woodland					
FB	Buttonwood forest		23	Red Mangrove Woodland					
SM	Mangrove scrub		32	Dwarf Mangrove Ecological Complex					
SMr	Red mangrove scrub								
Sma	Black mangrove scrub								
SM1	White mangrove scrub								
SM1b	White mangrove or buttonwood scrub								
SMx	Mixed mangrove scrub								
EO	Lather leaf								
FS	Swamp forest	Xeric Oak Scrub	27	Broad-leaved Evergreen /Mixed Evergreen Shrubland	329	Other shrubs and brush	Florida Scrub	Scrubby Flatwoods	
S	Scrub	Shrub Swamp	30	Gallberry/ Saw Palmetto/Titi Compositional Group			Scrubby Flatwoods		
SC	Buttonwood scrub	Shrub and Brush	35	Xeric Scrubland			Scrubby High Pine		
SP	Saw palmetto scrub		36	St. Johns Wort Shrubland Compositional Group					
SH	Hardwood scrub								
PE	Non-graminoid emergent marsh								
SB	Shrublands								
SBm	Wax myrtle								
SVPIh	Slash pines with hardwoods	Mixed Hardwood-Pine	14	Mesic-Xeric Mixed Pine/Oak/Hickory Forest Ecological Complex	434	Hardwood conifer mixed	Mesic Temperate Hammock	Upland Hardwood Forest	
								Mesic Hammock	
ORV	ORV trails	Barren and Urban	60	Bare soil/Clearcut	743	Spoil areas	N/A	N/A	
SA	Spoil areas								
SAd	Artificial deer islands								
FS	Swamp forest	Hardwood Swamp	3	Semi-decidous/Evergreen Tropical/Subtropical Swamp Forest	617	Mixed wetland hardwoods	Flowing Water Swamps	Wet Flatwoods	
FSh	Mixed hardwood swamp forest	Bottomland Hardwood Forest	17	Swamp Forest Ecological Complex			Pond Swamps	Bottomland Forest	
FSx	Cypress-mixed hardwoods						Seepage Swamps		
FSa	Mixed hardwoods, cypress and pine								
FSb	Bayhead								

^ Crosswalks for 5 vegetation classification schemes used in south Florida: 1. Everglades Vegetation Classification System (EVSC, South Florida National Parks), 2. Florida Fish and Wildlife Conservation Commission (FFWCC), 3. Florida Gap Analysis Project (FLGAP, US Geological Survey), 4. Florida Land Use and Cover Classification System (FLUCCS, Florida Department of Transportation and Water Management Districts), 5. Multi-Species Recovery Project (MSRP, US Fish and Wildlife Service). Source: Gilbert 2005

* Classification of plant communities based on the Natural Communities Guide developed by Florida Natural Areas Inventory (FNAI)

Appendix 3. ~~Preliminary~~ Floristic Inventory of the Gordon River Greenway ~~-~~Preserve, 2020.

Gordon River Greenway (Conservation Collier parcels)
by Maureen S. Bonness, with assistance from Michael J. Barry
September 2, 2020

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
x	x	*Abrus precatorius*	Rosary-pea, Crab-eyes		√			I
x	x	*Acacia auriculiformis*	Earleaf acacia		√			I
x		*Acacia pinetorum*	Pineland acacia	N				
	x	*Acalypha arvensis*	Field copperleaf		√			
x	x	*Acrostichum aureum*	Golden leather fern	N		T	S3	
x	x	*Acrostichum danaeifolium*	Giant leather fern	N				
x		*Albizia lebbeck*	Woman's tongue, Rattlepod		√			I
	x	*Allamanda cathartica*	Golden trumpet, Brownbud allamanda		√			
x	x	*Ambrosia artemisiifolia*	Common ragweed	N				
	x	*Ammannia latifolia*	Pink redstem, Toothcups	N				
	x	*Amphicarpum muhlenbergianum*	Blue maidencane	N				
	x	*Andropogon glomeratus* var. *glaucopsis*	Purple bluestem	N				
x	x	*Andropogon glomeratus* var. *pumilus*	Bushy bluestem	N				
x		*Aniseia martinicensis*	Whitejacket		√			
x	x	*Annona glabra*	Pond-apple	N				
x		*Antigonon leptopus*	Coral vine		√			II
x	x	*Ardisia elliptica*	Shoe-button ardisia		√			I
	x	*Ardisia escallonioides*	Marlberry	N				
x		*Aristida spiciformis*	Bottlebrush threeawn	N				
x		*Aristida stricta (=A. beyrichiana)*	Southern wiregrass	N				
	x	*Asclepias curassavica*	Scarlet milkweed, Bloodflower		√			
	x	*Asemeia violacea (=Polygala grandiflora, P. violacea)*	Candyweed, Showy milkwort	N				
x		*Asimina reticulata*	Common pawpaw, Netted pawpaw	N				
x	x	*Avicennia germinans*	Black mangrove	N				
x	x	*Baccharis angustifolia*	Saltwater falsewillow	N				
x	x	*Baccharis halimifolia*	Saltbush, Groundsel tree, Sea-myrtle	N				
	x	*Bacopa monnieri*	Water hyssop, Herb-of-grace	N				
x		*Bambusa* sp.	Bamboo		√			
x	x	*Bidens alba*	Spanish-needles	N				
x	x	*Bischofia javanica*	Javanese bishopwood		√			I
	x	*Boehmeria cylindrica*	Button-hemp, False nettle, Bog hemp	N				
	x	*Boerhavia diffusa*	Red spiderling, Vineflower	N				
x		*Broussonetia papyrifera*	Paper mulberry		√			II
	x	*Buchnera americana*	American bluehearts	N				
x	x	*Bursera simaruba*	Gumbo limbo	N				
x	x	*Callicarpa americana*	American beautyberry	N				
x		*Calophyllum sp.*	Beauty leaf		√			
x		*Carica papaya*	Papaya	N				
x	x	*Carphephorus corymbosus*	Florida paintbrush, Coastalplain chaffhead	N				
x	x	*Cassytha filiformis*	Lovevine, Devil's gut	N				
x	x	*Casuarina equisetifolia*	Australian-pine, Horsetail casuarina		√			I
x		*Cenchrus echinatus*	Southern sandspur	N				
x		*Cenchrus purpureus (=Pennisetum purpureum)*	Elephantgrass, Napier grass		√			I
	x	*Cenchrus spinifex (=C. incertus)*	Coastal sandbur	N				
	x	*Centella asiatica*	Coinwort, Spadeleaf	N				
x		*Chamaecrista nictitans*	Sensitive pea	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Chamaecrista nictitans* var. *aspera*	Hairy sensitive-pea, Hairy partridge-pea	N				
x	x	*Chiococca alba (=C. parvifolia)*	Pineland snowberry	N				
	x	*Chromolaena odorata*	Jack-in-the-bush	N				
x	x	*Chrysobalanus icaco*	Coco plum	N				
x		*Chrysophyllum oliviforme*	Satinleaf	N		T		
x		*Chrysopsis mariana*	Maryland goldenaster	N				
	x	*Cissus verticillata (=C. sicyoides)*	Possum grape, Seasonvine	N				
	x	*Citharexylum spinosum (=C. fruticosum)*	Fiddlewood	N				
	x	*Cladium jamaicense*	Sawgrass	N				
x		*Cnidoscolus stimulosus*	Tread-softly, Finger-rot, 7-minute-itch	N				
x	x	*Coccoloba diversifolia*	Pigeon plum	N				
	x	*Coccoloba uvifera*	Seagrape	N				
x	x	*Cocos nucifera*	Coconut palm		√			II
x		*Colubrina asiatica*	Latherleaf		√			I
x	x	*Commelina diffusa*	Common dayflower		√			
x		*Commelina erecta*	Whitemouth dayflower	N				
x	x	*Conocarpus erectus*	Buttonwood	N				
	x	*Cornus foemina*	Swamp dogwood, Stiff dogwood	N				
	x	*Crinum americanum*	Swamp lily	N				
	x	*Crotalaria pallida* var. *obovata*	Smooth rattlebox		√			
	x	*Croton glandulosus var. septentrionalis (=var. glandulosus)*	Vente conmigo	N				
x	x	*Cupaniopsis anacardioides*	Carrotwood		√			I
	x	*Cyperus croceus*	Baldwin's flatsedge	N				
	x	*Cyperus ligularis*	Swamp flatsedge	N				
	x	*Cyperus polystachyos*	Manyspike flatsedge, Texas sedge	N				
	x	*Dactyloctenium aegyptium*	Crow's-foot grass		√			II
x	x	*Dalbergia ecastaphyllum*	Coinvine	N				
x	x	*Delonix regia*	Royal poinciana		√			
	x	*Desmodium incanum*	Beggar's-ticks		√			
x		*Desmodium* sp.	Beggar's-ticks					
	x	*Dichanthelium aciculare*	Needleleaf witchgrass	N				
	x	*Dichanthelium dichotomum*	Cypress witchgrass	N				
	x	*Dichanthelium ensifolium* var. *unciphyllum*	Cypress witchgrass	N				
	x	*Dichanthelium portoricense*	Hemlock witchgrass	N				
	x	*Dichanthelium strigosum* var. *glabrescens*	Roughhair witchgrass	N				
	x	*Digitaria bicornis*	Asia crabgrass		√			
x		*Dimocarpus longan*	Longan		√			
x	x	*Dioscorea bulbifera*	Air potato		√			I
	x	*Diospyros virginiana*	Common persimmon	N				
x		*Distichlis spicata*	Saltgrass	N				
x		*Dracaena hyacinthoides (=Sansevieria hyacinthoides)*	Mother-in-law's tonge		√			II
	x	*Dracaena reflexa*	Song of Jamaica		√			
x		*Drypetes diversifolia*	Whitewood	N		E	S2	
x		*Dypsis lutescens*	Areca palm		√			
	x	*Echinochloa walteri*	Coast cockspur	N				
	x	*Eclipta prostrata*	False daisy	N				
	x	*Edrastima uniflora (=Hedyotis uniflora)*	Clustered mille graine	N				
	x	*Eleocharis baldwinii*	Baldwin's spikerush, Roadgrass, Hairsedge	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Eleocharis geniculata*	Canada spikerush	N				
	x	*Eleocharis interstincta*	Knotted spikerush	N				
	x	*Eleusine indica*	Indian goosegrass		√			
x	x	*Emilia fosbergii*	Florida tasselflower		√			
	x	*Emilia sonchifolia*	Lilac tassleflower		√			
	x	*Encyclia tampensis*	Florida butterfly orchid	N				
	x	*Erechtites hieraciifolius*	Fireweed, American burnweed	N				
x		*Eriocaulon* sp.	Pipewort	N				
	x	*Erythrina herbacea*	Coralbean, Cherokee bean	N				
x	x	*Eugenia axillaris*	White stopper	N				
x	x	*Eugenia foetida*	Spanish stopper	N				
x	x	*Eupatorium capillifolium*	Dogfennel	N				
	x	*Eupatorium serotinum*	Lateflowering thoroughwort	N				
	x	*Euphorbia blodgettii (=Chamaesyce blodgettii)*	Limestone sandmap	N				
	x	*Euphorbia cyathophora (=Poinsettia cyathophora)*	Painted leaf, Fire-on-the-mountain	N				
	x	*Euphorbia graminea*	Grassleaf spurge		√			
	x	*Euphorbia heterophylla (=Poinsettia heterophylla)*	Fiddler's spurge, Mexican fireplant	N				
	x	*Euphorbia hypericifolia (=Chamaesyce hypericifolia)*	Eyebane, Graceful sandmat	N				
	x	*Euphorbia hyssopifolia (=Chamaesyce hyssopifolia)*	Eyebane, Hyssopleaf sandmat	N				
	x	*Euphorbia ophthalmica (=Chamaesyce ophthalmica)*	Florida hammock sandmat	N				
	x	*Eustachys petraea*	Pinewoods fingergrass	N				
x	x	*Ficus aurea*	Strangler fig, Golden fig	N				
x	x	*Ficus benghalensis*	Banyan tree		√			
x	x	*Ficus citrifolia*	Short-leaf fig, Wild banyan tree	N				
x	x	*Ficus microcarpa*	Laurel fig, Indian laurel		√			I
x	x	*Fimbristylis cymosa*	Hurricanegrass		√			
	x	*Fimbristylis spadicea*	Marsh fimbry	N				
	x	*Flaveria linearis*	Narrowleaf yellowtops	N				
x		*Forestiera segregata*	Florida swampprivet	N				
	x	*Funastrum clausum (=Sarcostemma clausum)*	Whitevine, White twinevine	N				
	x	*Gaillardia pulchella*	Indian blanket, Firewheel	N?				
	x	*Galactia elliottii*	Elliott's milkpea	N				
	x	*Galactia volubilis*	Eastern milkpea	N				
	x	*Galium hispidulum*	Coastal bedstraw	N				
x		*Geobalanus oblongifolius (=Licania michauxii)*	Gopher-apple	N				
	x	*Gomphrena serrata*	Prostate globe amaranth		√			
	x	*Gossypium hirsutum*	Wild cotton	N		T		
	x	*Guilandina bonduc (=Caesalpinia bonduc)*	Gray nicker	N				
x	x	*Hamelia patens*	Firebush	N				
x	x	*Heliotropium angiospermum*	Scorpionstail	N				
x		*Heliotropium polyphyllum*	Pineland heliotrope	N				
x		*Hemarthria altissima*	Limpograss		√			II
	x	*Hibiscus coccineus*	Scarlet rosemallow	N				
	x	*Houstonia procumbens (=Hedyotis procumbens)*	Innocence, Roundleaf bluet	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Hydrocotyle* sp.	Pennywort	N				
	x	*Hypericum cistifolium*	Roundpod St. John's-wort	N				
	x	*Hypericum hypericoides*	St. Andrew's-cross	N				
x		*Hypericum tenuifolium (=Hypericum reductum)*	Atlantic St. John's-wort	N				
	x	*Hypericum tetrapetalum*	Fourpetal St. John's-wort	N				
x		*Hypoxis* sp.	Yellow stargrass	N				
x	x	*Ilex cassine*	Dahoon holly, Dahoon	N				
x	x	*Ilex glabra*	Gallberry, Inkberry	N				
	x	*Imperata cylindrica*	Cogongrass		√			I
	x	*Ipomoea sagittata*	Glades morning-glory	N				
	x	*Juncus megacephalus*	Bighead rush	N				
x	x	*Juncus roemerianus*	Needle rush, Black rush	N				
x		*Juniperus virginiana*	Red cedar	N				
x		*Kalanchoe* sp.	Life plant		√			
	x	*Lachnocaulon anceps*	Whitehead bogbutton	N				
x	x	*Laguncularia racemosa*	White mangrove	N				
x	x	*Lantana strigocamara (=L. camara)*	Shrubverbena		√			I
x	x	*Leucaena leucocephala*	White leadtree		√			II
x		*Liatris tenuifolia*	Shortleaf gayfeather	N				
	x	*Ludwigia curtissii*	Curtiss's primrosewillow	N				
	x	*Ludwigia maritima*	Seaside primrosewillow	N				
	x	*Ludwigia microcarpa*	Smallfruit primrosewillow	N				
	x	*Ludwigia octovalvis*	Mexican primrosewillow	N				
x		*Lygodesmia aphylla*	Roserush	N				
x	x	*Lygodium microphyllum*	Small-leaf climbing fern		√			I
x		*Lyonia ferruginea*	Rusty staggerbush	N				
x	x	*Lyonia fruticosa*	Coastalplain staggerbush	N				
	x	*Lysiloma latisiliquum*	False tamarind	N				
	x	*Macroptilium lathyroides*	Wild bushbean		√			II
x	x	*Melaleuca quinquenervia*	Punktree		√			I
x		*Melia azedarach*	Chinaberry		√			II
	x	*Melothria pendula*	Creeping-cucumber	N				
	x	*Mikania scandens*	Climbing hempweed, Climbing hempvine	N				
	x	*Millettia pinnata (=Pongmia pinnata)*	Karum tree, Pongamia		√			
	x	*Mimosa strigillosa*	Powderpuff	N				
	x	*Mitreola petiolata*	Miterwort, Lax hornpod	N				
x	x	*Momordica charantia*	Balsampear		√			II
x		*Monstera deliciosa*	Cut-leaf philodendron		√			
x	x	*Morella cerifera (=Myrica cerifera)*	Wax myrtle, Southern bayberry	N				
	x	*Morus rubra*	Red mullberry	N				
	x	*Musa x paradisiaca*	Common banana		√			
	x	*Myrcianthes fragrans*	Simpson's stopper, Twinberry	N		T		
	x	*Myriopus volubilis (=Tournefortia volubilis)*	Twining soldierbush	N				
x	x	*Myrsine cubana (=Rapanea punctata)*	Myrsine, Colicwood	N				
	x	*Nephrolepis brownii (=N. multiflora)*	Asian sword fern		√			I
	x	*Nephrolepis cordifolia*	Tuberous sword fern		√			I
	x	*Nephrolepis exaltata*	Wild Boston fern	N				
	x	*Oeceoclades maculata*	African ground orchid, Monk orchid		√			
	x	*Oplismenus hirtellus*	Woodgrass, Basketgrass	N				
x		*Opuntia stricta*	Pricklypear	N		T		
x	x	*Panicum repens*	Torpedo grass		√			I

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
x	x	*Parthenocissus quinquefolia*	Virginia-creeper, Woodbine	N				
	x	*Paspalum setaceum*	Thin paspalum	N				
x	x	*Paspalum vaginatum*	Seashore paspalum	N				
x	x	*Passiflora suberosa*	Corkystem passionflower	N				
x		*Persea borbonia*	Red bay	N				
x	x	*Persea palustris*	Swamp bay	N				
x	x	*Phlebodium aureum*	Golden polypody	N				
x		*Phoenix reclinata*	Senegal date palm		√			II
x	x	*Phyla nodiflora*	Frogfruit, Capeweed	N				
	x	*Phyllanthus tenellus*	Mascarene Island leafflower		√			
	x	*Phyllanthus urinaria*	Chamber bitter		√			
x		*Physalis angulata*	Cutleaf groundcherry	N				
	x	*Physalis angustifolia*	Coastal groundcherry	N				
	x	*Physalis cordata*	Heartleaf groundcherry	N				
x	x	*Phytolacca americana*	American pokeweed	N				
x		*Piloblephis rigida*	Wild pennyroyal	N				
x	x	*Pinus elliottii* var. *densa*	South Florida slash pine	N				
	x	*Piscidia piscipula*	Jamaican dogwood, Florida fishpoison tree	N				
	x	*Pisonia aculeata*	Devil's claw, Pullback	N				
	x	*Pithecellobium keyense*	Florida Key's blackbead	N		T		
x		*Pityopsis graminifolia*	Narrowleaf silkgrass	N				
x	x	*Pleopeltis michauxiana (=Pleopeltis polypodioides* var. *michauxiana)*	Resurrection fern	N				
	x	*Pluchea baccharis (=Pluchea rosea)*	Rosy camphorweed	N				
x	x	*Pluchea carolinensis*	Cure-for-all	N				
x	x	*Pluchea odorata*	Sweetscent	N				
x	x	*Polygala nana*	Candyroot	N				
	x	*Psilotum nudum*	Whisk fern	N				
x	x	*Psychotria nervosa*	Wild coffee	N				
	x	*Pteridium aquilinum* var. *caudatum*	Tailed bracken fern	N				
	x	*Pteridium aquilinum* var. *pseudocaudatum*	Tailed bracken fern	N				
	x	*Pteris vittata*	China brake		√			II
x		*Pterocaulon pycnostachyum*	Blackroot	N				
	P	*Quadrella jamaicensis (=Capparis jamaicensis)*	Jamaican capertree	N				
x		*Quercus chapmanii*	Chapman's oak	N				
x		*Quercus geminata*	Sand live oak	N				
x		*Quercus inopina*	Scrub oak	N				
	x	*Quercus laurifolia*	Laurel oak, Diamond oak	N				
x	x	*Quercus minima*	Dwarf live oak	N				
	x	*Quercus pumila (=Quercus elliottii)*	Running oak	N				
x	x	*Quercus virginiana*	Virginia live oak	N				
x	x	*Randia aculeata*	White indigoberry	N				
	x	*Rhabdadenia biflora*	Rubbervine, Mangrovevine	N				
x	x	*Rhizophora mangle*	Red mangrove	N				
x	x	*Rhodomyrtus tomentosa*	Downy rose myrtle		√			I
	x	*Rhus copallinum*	Winged sumac	N				
	x	*Rhynchospora colorata*	Starrush whitetop	N				
	x	*Rhynchospora divergens*	Spreading beaksedge	N				
	x	*Rhynchospora fascicularis*	Fascicled beaksedge	N				
	x	*Rhynchospora globularis*	Globe beaksedge	N				
	x	*Rhynchospora microcarpa*	Southern beaksedge	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
	x	*Rhynchospora plumosa*	Plumed beaksedge	N				
x		*Ricinus communis*	Castor-bean		√			II
x	x	*Roystonea regia*	Royal palm	N		E	S2	
	x	*Ruellia blechum (=Blechumn pyramidatum)*	Green shrimp-plant, Browne's blechum		√			II
x	x	*Sabal palmetto*	Cabbage palm	N				
x		*Sabatia brevifolia*	Shortleaf rosegentian	N				
x		*Saccharum officinarum*	Sugarcane		√			
	x	*Salix caroliniana*	Coastal Plain willow	N				
	x	*Samolus ebracteatus*	Water pimpernel, Limewater brookweed	N				
x	x	*Schefflera actinophylla*	Australian umbrellatree		√			I
x	x	*Schinus terebinthifolia*	Brazilian pepper		√			I
	x	*Scleria ciliata*	Fringed nutrush	N				
	x	*Scoparia dulcis*	Sweetbroom, Licoriceweed	N				
	x	*Senna obtusifolia*	Coffeeweed, Sicklepod	N				
x		*Senna occidentalis*	Septicweed		√			
x	x	*Senna pendula var. glabrata*	Valamuerto, Christmas cassia		√			I
x	x	*Serenoa repens*	Saw palmetto	N				
	x	*Setaria parviflora (=S. geniculata)*	Knotroot foxtail, Yellow bristlegrass	N				
x	x	*Sida cordifolia*	Llima		√			
	x	*Sida rhombifolia*	Cuban jute, Indian hemp	N				
	x	*Sida ulmifolia (=S. acuta)*	Common wireweed, Common fanpetals	N				
x	x	*Sideroxylon celastrinum*	Saffron plum, Bumelia	N				
x	x	*Sideroxylon foetidissimum (=Mastichodendron foetidissimum)*	Mastic	N				
	x	*Sideroxylon reclinatum*	Florida bully, Buckthorn	N				
	P	*Simarouba glauca*	Paradise tree	N				
x	x	*Smilax auriculata*	Earleaf greenbrier	N				
	x	*Smilax bona-nox*	Saw greenbrier	N				
x		*Smilax* sp.	greenbrier	N				
	x	*Solanum americanum*	American black nightshade	N				
x	x	*Solanum donianum*	Mullein nightshade	N		T		
	x	*Solanum erianthum*	Potatotree	N				
	x	*Solidago sempervirens*	Seaside goldenrod	N				
x		*Solidago* sp.	goldenrod	N				
	x	*Sonchus oleraceus*	Common sowthistle		√			
x		*Sorghastrum secundum*	Lopsided Indian grass	N				
	x	*Spermacoce remota (=Spermacoce assurgens)*	Woodland false buttonweed	N				
x	x	*Spermacoce verticillata*	Shrubby false buttonweed		√			II
	x	*Sporobolus jacquemontii (=S. indicus var. pyramidalis)*	West Indian dropseed		√			I
x		*Sporobolus junceus*	Dropseed, Pinewoods	N				
	x	*Stachytarpheta jamaicensis*	Porterweed	N				
	x	*Stenotaphrum secundatum*	St. Augustine grass		√			
x	x	*Swietenia mahagoni*	West Indian mahogany	N		T	S3	
x	x	*Syngonium podophyllum*	American evergreen		√			I
x		*Syzygium cumini*	Java plum		√			I
x	x	*Syzygium jambos*	Rose apple, Malabar plum		√			II
x		*Talipariti tileaceum*	Mahoe, Sea hibiscus		√			II
x	x	*Telmatoblechnum serrulatum (=Blechnum serrulatum)*	Swamp fern	N				

2013 whole GRG	2020	Scientific Name (prior name)	Common Names	Native	Not Native	State	FNAI	FLEPPC
x	x	*Terminalia catappa*	West Indian tropical almond		√			II
x	x	*Terminalia molinetii (=Bucida molinetii)*	Spiny black olive	N				
	x	*Thelypteris hispidula*	Hairy maiden fern	N				
	x	*Thelypteris interrupta*	Hottentot fern, Shiny Thelypteris	N				
	x	*Thelypteris kunthii*	Southern shield fern	N				
	x	*Tillandsia balbisiana*	Reflexed wild-pine, Northern needleleaf	N		T		
x	x	*Tillandsia fasciculata*	Stiff-leaved wild-pine, Cardinal airplant	N		E		
x		*Tillandsia flexuosa*	Banded wild-pine, Twisted airplant	N		T	S3	
	x	*Tillandsia paucifolia*	Potbelly airplant	N				
	x	*Tillandsia recurvata*	Ball-moss	N				
x	x	*Tillandsia setacea*	Thin-leaved wild-pine, Southern needleleaf	N				
	x	*Tillandsia utriculata*	Giant wild-pine, Giant airplant	N		E		
	x	*Tillandsia variabilis*	Soft-leaved wild-pine	N		T		
	x	*Torenia crustacea (=Lindernia crustacea)*	Malaysian false-pimpernel		√			
x	x	*Toxicodendron radicans*	Eastern poison-ivy	N				
	x	*Tradescantia spathacea (=Rhoeo spathacea)*	Moses-in-the-cradle, Oyster plant		√			I
x	x	*Trema micranthum*	Nettletree	N				
	x	*Typha domingensis*	Southern cattail	N				
x	x	*Urena lobata*	Caesarweed		√			I
x	x	*Urochloa maxima (=Panicum maximum)*	Guineagrass		√			II
x	x	*Vaccinium myrsinites*	Shiny blueberry	N				
	x	*Varronia globosa (=Cordia globosa)*	Curacao bush	N		E		
	x	*Verbesina virginica*	Frostweed, White crownbeard	N				
	x	*Vigna luteola*	Cow-pea, Hairypod cowpea	N				
x		*Vitex trifolia*	Simpleleaf chastetree	N				II
x	x	*Vitis rotundifolia*	Muscadine grape	N				
x		*Vitis shuttleworthii*	Caloosa grape	N				
	x	*Vittaria lineata*	Shoestring fern	N				
	x	*Waltheria indica*	Sleepy morning	N				
	x	*Woodwardia virginica*	Virginia chain fern	N				
	x	*Ximenia americana*	Hog-plum, Tallowwood	N				
x	x	*Zanthoxylum fagara*	Wild lime	N				
Count								
159	256			237	80	16	5	47

State Codes: E=Endangered, T=Threatened

FNAI Codes: S1=critically imperiled; S2=imperiled because of rarity; S3=very rare in Florida or restricted range FLEPPC Codes: Category I = species has altered native plant communities; Category II = species with increasing abundance or frequency

Sources. Scentific plant names and Native/Not-Native status is according to the Atlas of Florida Plants website as of July 2020. State status is from Florida Department of Agriculture and Consumer Services 2018 list. FNAI category is from Florida Natural Areas Inventory April 2019 list. FLEPPC category is from the Florida Exotic Pest Plant Council 2019 list.

Appendix 4. Florida Natural Areas Inventory Report for the Gordon River Greenway Preserve

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

ELEMENT OCCURRENCES DOCUMENTED ON OR NEAR PROJECT SITE

Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
STYLABDI*16	Stylisma abdita	Scrub Stylisma	G3	S3	N	LE	1990-09-22	No general description given	BURCH (NO #) COLLECTED SPECIMEN.
STYLABDI*9	Stylisma abdita	Scrub Stylisma	G3	S3	N	LE	1966	No general description given	PRESENT ON SITE. SMITH AND MYINT (627) COLLECTED SPECIMEN; NUMBER NOT GIVEN.
STYLABDI*13	Stylisma abdita	Scrub Stylisma	G3	S3	N	LE	1990-09-25	No general description given	BURCH (NO #) COLLECTED SPECIMEN.
GOPHPOLY*197	Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS	ZZ	No general description given	No EO data given
SCIUAVIC*1	Sciurus niger avicennia	Mangrove Fox Squirrel	G5T2	S2	N	LT	1985-03-09	No general description given	DOR SPECIMEN COLL. 9 MARCH 1985 BY DOUG GONZALES.
GOPHPOLY*1059	Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS	1986-02-20	Scrub	1986-02-20: S.P. Christman, MNH, observation.
CARECARE*19	Caretta caretta	Loggerhead	G3	S3	LT	LT	1992	6.4 KM STRETCH OF GULF COASTAL BEACH.	NESTING BEACH. DATA (FROM CARETTA RESEARCH, INC., UNPUB.) PRESENTED AS YEAR: # NESTS OBSERVED (#/KM). 1979: 55 (8.9), 1978: 40 (6.3), 1977: 38 (5.9), 1976: 35 (5.5), 1975: 30 (4.7).
SCRUB****355	Scrub		G2	S2	N	N	1983-02-13	FAIRLY OPEN SAND PINE SCRUB.	No EO data given
SCRUB****356	Scrub		G2	S2	N	N	1983-02-13	FAIRLY DENSE STAND OF SANDPINE.	No EO data given
RANACAPI*45	Rana capito	Gopher Frog	G3	S3	N	LS	ZZ	No general description given	SPEC. (LA-60564), COLLECTOR N/A, DATE N/A.
HALILEUC*1063	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	2003	2005-07-12: Source does not provide a description.	Nest status: Active, 2003, 2002, 2001, 2000, 1999;(U03FWC01FLUS)
HALILEUC*1067	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	2003	2005-07-12: Source does not provide a description.	Nest status: Active, 2003; Unknown status or not assessed, 2002, 2001, 2000, 1999;(U03FWC01FLUS)
SCRUB****354	Scrub		G2	S2	N	N	1983-02-13	"SAND PINE SCRUB".	No EO data given
SCRUB****351	Scrub		G2	S2	N	N	198?	"OAK SCRUB" IN RAPIDLY URBANIZING AREA BETWEEN H. S. & SHOPPING MALL.	No EO data given
SCRUB****353	Scrub		G2	S2	N	N	ZZ	"SAND PINE SCRUB".	No EO data given

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Florida Natural Areas Inventory

ELEMENT OCCURRENCES DOCUMENTED ON OR NEAR *PROJECT SITE*

Map Label	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing	Observation Date	Description	EO Comments
SCRUB****352	Scrub		G2	S2	N	N	1987-04-07	SAND PINE SCRUB IN RAPIDLY URBANIZING AREA BEHIND MAJOR SHOPPING MALL.	LOW, BROKEN CANOPY OF SAND LIVE OAKS, MYRTLE OAKS WITH TALLER SCATTERED SLASH PINES. TREES HARBOR VARIOUS BROMELIADS. UNDERSTORY OF SHINY LYONIA, SAW PALMETTO, ROSEMARY, GOPHER APPLE. GOPHER TORTOISES INHABIT THE SITE. 1 ACTIVE, 2 INACTIVE BURROWS SEEN.
HALILEUC*357	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	2003	No general description given	Nest status 1999-2003: Active - 2003, 2000, 1999; Inactive - 2002; Unknown/not assessed - 2001;Status 1995-98: Continuously active. (U03FWC01FLUS). Previous data (note different format) NEST: 1982-1988 ACTIVE. FLEDGED YOUNG 1983-1987.
HALILEUC*248	Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT	1981	No general description given	Nest status 1999-2003: Unknown/not assessed - 2003, 2002, 2001, 2000, 1999; Status 1995-98: Unknown/not assessed - 1998, 1997, 1996, 1995; (U03FWC01FLUS). Previous data (note different format) ACTIVE NEST; 0 YOUNG IN 1981,1980,1979,1978.

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FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

Biodiversity Matrix Report

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing
Matrix Unit ID: 39066					
Documented					
Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT
Documented-Historic					
Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS
Likely					
Mycteria americana	Wood Stork	G4	S2	LE	LE
Matrix Unit ID: 39067					
Documented-Historic					
Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LS
Likely					
Haliaeetus leucocephalus	Bald Eagle	G5	S3	LT,PDL	LT
Mycteria americana	Wood Stork	G4	S2	LE	LE
Stylisma abdita	Scrub Stylisma	G3	S3	N	LE
Potential from any/all selected units					
Acipenser oxyrinchus desotoi	Gulf Sturgeon	G3T2	S2	LT	LS
Ardea herodias occidentalis	Great White Heron	G5T2	S2	N	N
Athene cunicularia floridana	Florida Burrowing Owl	G4T3	S3	N	LS
Crocodylus acutus	American Crocodile	G2	S1	LE,PT	LE
Dendroica discolor paludicola	Florida Prairie Warbler	G5T3	S3	N	N
Drymarchon couperi	Eastern Indigo Snake	G3	S3	LT	LT
Elytraria caroliniensis var. angustifolia	Narrow-leaved Carolina Scalystem	G4T2	S2	N	N
Eragrostis pectinacea var. tracyi	Sanibel Lovegrass	G5T1	S1	N	LE
Eretmochelys imbricata	Hawksbill	G3	S1	LE	LE
Eumops floridanus	Florida bonneted bat	G1	S1	N	LE
Forestiera segregata var. pinetorum	Florida Pinewood Privet	G4T2	S2	N	N
Gymnopogon chapmanianus	Chapman's Skeletongrass	G3	S3	N	N
Heterodon simus	Southern Hognose Snake	G2	S2	N	N
Lechea cernua	Nodding Pinweed	G3	S3	N	LT
Linum carteri var. smallii	Carter's Large-flowered Flax	G2T2	S2	N	LE
Mesic flatwoods		G4	S4	N	N
Nemastylis floridana	Celestial Lily	G2	S2	N	LE
Nolina atopocarpa	Florida Beargrass	G3	S3	N	LT
Patagioenas leucocephala	White-crowned Pigeon	G3	S3	N	LT
Picoides borealis	Red-cockaded Woodpecker	G3	S2	LE	LS
Polyrrhiza lindenii	Ghost Orchid	G2G4	S2	N	LE
Pteroglossaspis ecristata	Giant Orchid	G2G3	S2	N	LT
Puma concolor coryi	Florida Panther	G5T1	S1	LE	LE
Rallus longirostris scottii	Florida Clapper Rail	G5T3?	S3?	N	N
Rana capito	Gopher Frog	G3	S3	N	LS
Rivulus marmoratus	Mangrove Rivulus	G3	S3	C	LS
Rostrhamus sociabilis plumbeus	Snail Kite	34G5T3C	S2	LE	LE

Definitions: *Documented - Rare species and natural communities documented on or near this site.*
Documented-Historic - Rare species and natural communities documented, but not observed/reported within the last twenty years.
Likely - Rare species and natural communities likely to occur on this site based on suitable habitat and/or known occurrences in the vicinity.
Potential - This site lies within the known or predicted range of the species listed.

03/29/2007 **Page 1 of 2**

1018 Thomasville Road
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(850) 224-8207
(850) 681-9364 Fax
www.fnai.org

FLORIDA Natural Areas INVENTORY

Florida Natural Areas Inventory

Biodiversity Matrix Report

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Listing
Roystonea elata	Florida Royal Palm	G2G3	S2	N	LE
Sceloporus woodi	Florida Scrub Lizard	G3	S3	N	N
Sciurus niger avicennia	Mangrove Fox Squirrel	G5T2	S2	N	LT
Trichechus manatus	Manatee	G2	S2	LE	LE
Ursus americanus floridanus	Florida Black Bear	G5T2	S2	N	LT*

Definitions: *Documented - Rare species and natural communities documented on or near this site.*
Documented-Historic - Rare species and natural communities documented, but not observed/reported within the last twenty years.
Likely - Rare species and natural communities likely to occur on this site based on suitable habitat and/or known occurrences in the vicinity.
Potential - This site lies within the known or predicted range of the species listed.

03/29/2007 **Page 2 of 2**

Collier County
Growth Management Community Development

Agenda Item No.: 5 B & C **Agenda Item Topic:** ICSR's and 2 Mgmt Plan Updates

Meeting Date: _____ (For Public Comment, list topic) _____

Name: Brad Cornell Address: 556 109th Ave, N 34108

Representing/Petitioner: Audubon Western Everglades Other: _____

PLEASE PRINT CLEARLY

COLLIER COUNTY ORDINANCE NO. 2003-53, AS AMENDED BY ORDINANCE 2004-05 AND 2007-24, REQUIRES THAT ALL LOBBYISTS SHALL, BEFORE ENGAGING IN ANY LOBBYING ACTIVITIES (INCLUDING, BUT NOT LIMITED TO, ADDRESSING THE BOARD OF COUNTY COMMISSIONERS), REGISTER WITH THE CLERK TO THE BOARD AT THE BOARD MINUTES AND RECORDS DEPARTMENT.

YOU ARE LIMITED TO THREE (3) MINUTES FOR YOUR COMMENTS AND ARE TO ADDRESS ONLY THE CHAIR.

PUBLIC COMMENT IS NOT INTENDED TO BE A FORUM FOR SELF-PROMOTION. PUBLIC COMMENT SPEAKERS WHO ENGAGE IN ADVERTISING THEIR BUSINESS, PERSONAL POLITICKING, OR OTHER FORMS OF SELF-PROMOTION, WILL BE ASKED TO LEAVE THE PODIUM.

PLEASE GIVE THE COMPLETED FORM TO THE STAFF LIAISON.

From: Ian Bartoszek
To: Melissa Hennig
Subject: RE: [EXTERNAL]FW: December 3, 2025 Conservation Collier Land Acquisition Advisory Committee Meeting / Foster Property Comment
Date: Tuesday, December 2, 2025 7:41:45 PM
Attachments: image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image001.png

EXTERNAL EMAIL: This email is from an external source. Confirm this is a trusted sender and use extreme caution when opening attachments or clicking links.

Hello Melissa

Would you please read my comments below in support of the Foster property acquisition during the Collier County Land Acquisition Advisory Committee meeting on Wednesday December 3rd.

Comments from Ian Bartoszek Conservancy of Southwest Florida Wildlife Biologist and Science Project Manager.

Good morning Conservation Collier Land Acquisition Advisory Committee. As a wildlife biologist tracking pythons throughout southwest Florida I have on the ground familiarity with the Foster property over the past 13 years through access provided by the owner Doug Foster. This is a very unique parcel from an ecological perspective and I would recommend looking at it closer as a potential A list acquisition. Beyond the former auto ranch operation is a high relic dune feature containing a xeric scrub plant community and an active gopher tortoise population. This is one of the highest natural features on the landscape outside of Key Marco and a detailed floral inventory would likely yield endemic and listed plant species. This property also supports Florida black bear and Florida panther and we have seen their sign often. A portion of the historic old Marco road also runs through the entirety of the property. I believe this property has higher ecological value than realized and also higher human value when you factor in the possibility of the potential for quality hiking trails that could link up to other adjacent parcels owned by Conservation Collier and surrounding conservation lands. In summary I would recommend this parcel be considered for potential acquisition due to its size, connectivity, ecological integrity, rare scrub habitat and potential for quality recreational access and nature experience. Thank You

Thanks Melissa I attached a photo from a telemetry flight today over the parcel if can be useful in any future reports.

Ian

Ian A. Bartoszek
Wildlife Biologist / Science Project Manager

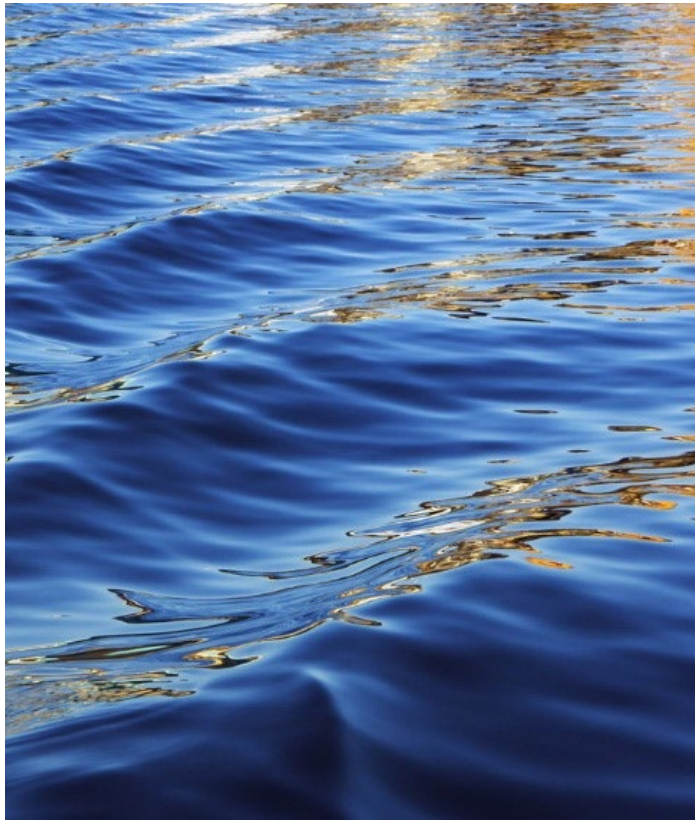
Conservancy of Southwest Florida
1495 Smith Preserve Way
Naples, FL 34102
conservancy.org
O: (239) 403-4208 | C: (239) 269-6902
ianb@conservancy.org

CONSERVANCY of Southwest Florida
OUR WATER, LAND, WILDLIFE, FUTURE.



Conservation Collier Acquisition Updates

December 3, 2025



November BCC meeting ranking – properties

Property/Project Area Name	Size (ac)	Staff Recommended Category	CCLAAC Recommended Category
Dr. Robert H. Gore III Preserve TPMA	**5.0**		
Castillo	*5.0*	A	A
North Belle Meade Preserve TPMA	**13.30**		
Sarry Trust	*13.30*	A	A
A-LIST TOTAL Sept and Oct 2025	**18.30**		
McIntosh Family Trust	2.73	C	B
B-LIST TOTAL Sept and Oct 2025	**2.73**		

Upcoming Rankings for January CCLAAC (March 10 BCC)

1. East Naples TPMA – 2 properties; 2.0 acres
2. Marco Island TPMA – 3 properties; 1.33 acres
3. NGGE (Not within TPMA) – 2 properties; 7.81 acres

Pending A-list Property Appraisals

Notice to Proceed to work on Appraisal

- HK Investment (Marco)
- Van Cleef (Marco)
- Gore Market Study
- Wildflowerz

Appraisal Bid received, Waiting on POs

- Brewers Landing TPMA – Dabreo 2.73 acres
- Edwards Trust (west of Picayune) – 65.00 acres
- Golden Land Partners (west of Picayune) – 20 acres
- I-75 and Everglades TPMA – 6 parcels; 16.94 acres
- Lucarelli (north Naples) – 5.00 acres
- Nancy Payton – Bennett 1 acre
- North Belle Meade TPMA – Simmons Trust 38.94 acres, Wilson Trust 5 acres
- Panther Walk TPMA Market Study

Waiting on quotes

- North Belle Meade TPMA – Sarry Trust 2.73 acres
- Winchester Head Market Study

QUESTIONS/COMMENTS?

FY 2026 Conservation Collier Budget Overview

Collier County

December 3, 2025

Today's Discussion

- Land Acquisition Fund Budget
- Maintenance Fund Budget
- Project Fund Budget
- Pepper Ranch Fund Budget
- Caracara Prairie Fund Budget

Collier County

Land Acquisition Fund (1061)



Land Acquisition Fund (1061) Expense

Program Budgetary Cost Summary	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Personal Services	387,855	484,500	452,100	516,000	-	516,000	6.5%
Operating Expense	210,126	298,700	243,800	305,000	-	305,000	2.1%
Indirect Cost Reimburs	38,300	66,800	66,800	87,500	-	87,500	31.0%
Capital Outlay	9,985,743	40,179,200	20,323,000	34,376,800	-	34,376,800	(14.4)%
Net Operating Budget	**10,622,025**	**41,029,200**	**21,085,700**	**35,285,300**	**-**	**35,285,300**	**(14.0)%**
Trans to Property Appraiser	248,166	298,400	298,400	313,300	-	313,300	5.0%
Trans to Tax Collector	606,595	946,700	946,700	975,100	-	975,100	3.0%
Trans to 0001 General Fund	28,895,865	-	-	-	-	-	na
Trans to 1062 ConservCollr Maint	-	6,900,000	6,900,000	16,422,000	-	16,422,000	138.0%
Trans to 1063 ConservCollr Proj	675,000	1,077,000	1,077,000	3,276,900	-	3,276,900	204.3%
Total Budget	**41,047,651**	**50,251,300**	**30,307,800**	**56,272,600**	**-**	**56,272,600**	**12.0%**
Total FTE	**4.00**	**4.00**	**4.00**	**4.00**	**-**	**4.00**	**0.0%**

Land Acquisition Fund (1061) Revenue

Program Funding Sources	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Ad Valorem Taxes	29,516,604	31,911,600	28,848,400	34,572,600	-	34,572,600	8.3%
Delinquent Ad Valorem Taxes	263,134	2,600	2,100	2,600	-	2,600	0.0%
State Revenue Sharing	186,016	-	-	-	-	-	na
Miscellaneous Revenues	156,715	31,000	167,300	32,000	-	32,000	3.2%
Interest/Misc	1,514,182	504,100	570,500	504,100	-	504,100	0.0%
Reimb From Other Depts	-	-	1,480,000	-	-	-	na
Trans frm Property Appraiser	36,665	-	-	-	-	-	na
Trans frm Tax Collector	359,799	-	-	-	-	-	na
Carry Forward	31,170,700	19,424,500	22,156,400	22,916,900	-	22,916,900	18.0%
Less 5% Required By Law	-	(1,622,500)	-	(1,755,600)	-	(1,755,600)	8.2%
Total Funding	**63,203,815**	**50,251,300**	**53,224,700**	**56,272,600**	**-**	**56,272,600**	**12.0%**

Maintenance Fund (1062)



Maintenance Fund (1062) Expense

Program Budgetary Cost Summary	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Personal Services	439,179	510,600	510,500	472,000	-	472,000	(7.6)%
Operating Expense	671,081	1,512,200	1,477,000	1,337,700	-	1,337,700	(11.5)%
Indirect Cost Reimburs	51,700	48,500	48,500	42,100	-	42,100	(13.2)%
Capital Outlay	-	85,000	85,000	335,000	-	335,000	294.1%
Net Operating Budget	**1,161,960**	**2,156,300**	**2,121,000**	**2,186,800**	**-**	**2,186,800**	**1.4%**
Trans to 0001 General Fund	723,532	-	-	-	-	-	na
Trans to 1840 Public Serv GrntM	10,000	-	-	-	-	-	na
Trans to 5006 Info Tech Cap	25,500	28,500	28,500	25,800	-	25,800	(9.5)%
Reserve for Contingencies	-	53,900	-	54,700	-	54,700	1.5%
Restricted for Unfunded Requests	-	45,618,300	-	62,511,700	-	62,511,700	37.0%
Total Budget	**1,920,992**	**47,857,000**	**2,149,500**	**64,779,000**	**-**	**64,779,000**	**35.4%**
Total FTE	**5.00**	**5.00**	**5.00**	**5.00**	**-**	**5.00**	**0.0%**

Maintenance Fund (1062) Revenue

Program Funding Sources	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Delinquent Ad Valorem Taxes	4	-	-	-	-	-	na
Charges For Services	41	-	-	-	-	-	na
Miscellaneous Revenues	6,999	16,400	240,700	16,400	-	16,400	0.0%
Interest/Misc	1,478,288	830,800	607,000	830,800	-	830,800	0.0%
Reimb From Other Depts	105,744	-	-	-	-	-	na
Trans fm 1061 ConsrvCollr-Land	-	6,900,000	6,900,000	16,422,000	-	16,422,000	138.0%
Carry Forward	42,284,000	40,152,200	41,954,000	47,552,200	-	47,552,200	18.4%
Less 5% Required By Law	-	(42,400)	-	(42,400)	-	(42,400)	0.0%
Total Funding	**43,875,076**	**47,857,000**	**49,701,700**	**64,779,000**	**-**	**64,779,000**	**35.4%**

Project Fund (1063)



Project Fund (1063)

Program Budgetary Cost Summary	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Adopted	FY 2026 Change
Operating Expense	64,745	430,500	668,600	747,500	-	747,500	73.6%
Capital Outlay	-	642,000	1,380,100	2,502,500	-	2,502,500	289.8%
Net Operating Budget	**64,745**	**1,072,500**	**2,048,700**	**3,250,000**	**-**	**3,250,000**	**203.0%**
Reserve for Capital	-	26,100	-	81,400	-	81,400	211.9%
Total Budget	**64,745**	**1,098,600**	**2,048,700**	**3,331,400**	**-**	**3,331,400**	**203.2%**

Program Funding Sources	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Adopted	FY 2026 Change
Interest/Misc	23,433	600	15,300	1,600	-	1,600	166.7%
Trans fm 1061 ConsrvCollr-Land	675,000	1,077,000	1,077,000	3,276,900	-	3,276,900	204.3%
Carry Forward	375,700	21,100	1,009,400	53,000	-	53,000	151.2%
Less 5% Required By Law	-	(100)	-	(100)	-	(100)	0.0%
Total Funding	**1,074,133**	**1,098,600**	**2,101,700**	**3,331,400**	**-**	**3,331,400**	**203.2%**

Project Fund (1063)

- New Funding for Projects in FY 2026:
  - Caracara Preserve- $15,000
  - CC Preserve Amenities - $100,000
  - Freedom Park Boardwalk - $1,000,000
  - Gordon River Greenway – 20,000
  - Gore Preserve Parking - $100,000
  - Marco Island Parcels & Amenities - $15,000
  - Pepper Ranch Construction - $1,000,000
  - Railhead - $300,000
  - Rattlesnake Hammock Parking Lot - $700,000

- Total = $3,250,000



Pepper Ranch (0673)



Pepper Ranch (0673)

Program Budgetary Cost Summary	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Operating Expense	6,590	41,200	41,200	41,200	-	41,200	0.0%
Net Operating Budget	**6,590**	**41,200**	**41,200**	**41,200**	**-**	**41,200**	**0.0%**
Reserve for Contingencies	-	3,000	-	3,000	-	3,000	0.0%
Reserve for Escrow	-	4,354,600	-	4,459,200	-	4,459,200	2.4%
Total Budget	**6,590**	**4,398,800**	**41,200**	**4,503,400**	**-**	**4,503,400**	**2.4%**

Program Funding Sources	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Miscellaneous Revenues	30,900	41,200	41,200	41,200	-	41,200	0.0%
Interest/Misc	142,127	127,200	58,900	130,200	-	130,200	2.4%
Carry Forward	4,115,300	4,238,800	4,281,700	4,340,600	-	4,340,600	2.4%
Less 5% Required By Law	-	(8,400)	-	(8,600)	-	(8,600)	2.4%
Total Funding	**4,288,327**	**4,398,800**	**4,381,800**	**4,503,400**	**-**	**4,503,400**	**2.4%**

Caracara Prairie (0674)



Caracara Prairie (0674)

Program Budgetary Cost Summary	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Operating Expense	100	43,000	130,100	130,100	-	130,100	202.6%
Net Operating Budget	**100**	**43,000**	**130,100**	**130,100**	**-**	**130,100**	**202.6%**
Reserve for Escrow	-	1,859,900	-	1,718,600	-	1,718,600	(7.6)%
Total Budget	**100**	**1,902,900**	**130,100**	**1,848,700**	**-**	**1,848,700**	**(2.8)%**

Program Funding Sources	2024 Actual	FY 2025 Adopted	FY 2025 Forecast	FY 2026 Current	FY 2026 Expanded	FY 2026 Amended	FY 2026 Change
Charges For Services	13,782	-	-	-	-	-	na
Miscellaneous Revenues	5	-	-	-	-	-	na
Interest/Misc	63,146	55,500	26,100	53,900	-	53,900	(2.9)%
Carry Forward	1,824,700	1,850,200	1,901,500	1,797,500	-	1,797,500	(2.8)%
Less 5% Required By Law	-	(2,800)	-	(2,700)	-	(2,700)	(3.6)%
Total Funding	**1,901,633**	**1,902,900**	**1,927,600**	**1,848,700**	**-**	**1,848,700**	**(2.8)%**

Questions



Initial Criteria Screening Reports (ICSRs) Properties for Review December 3, 2025

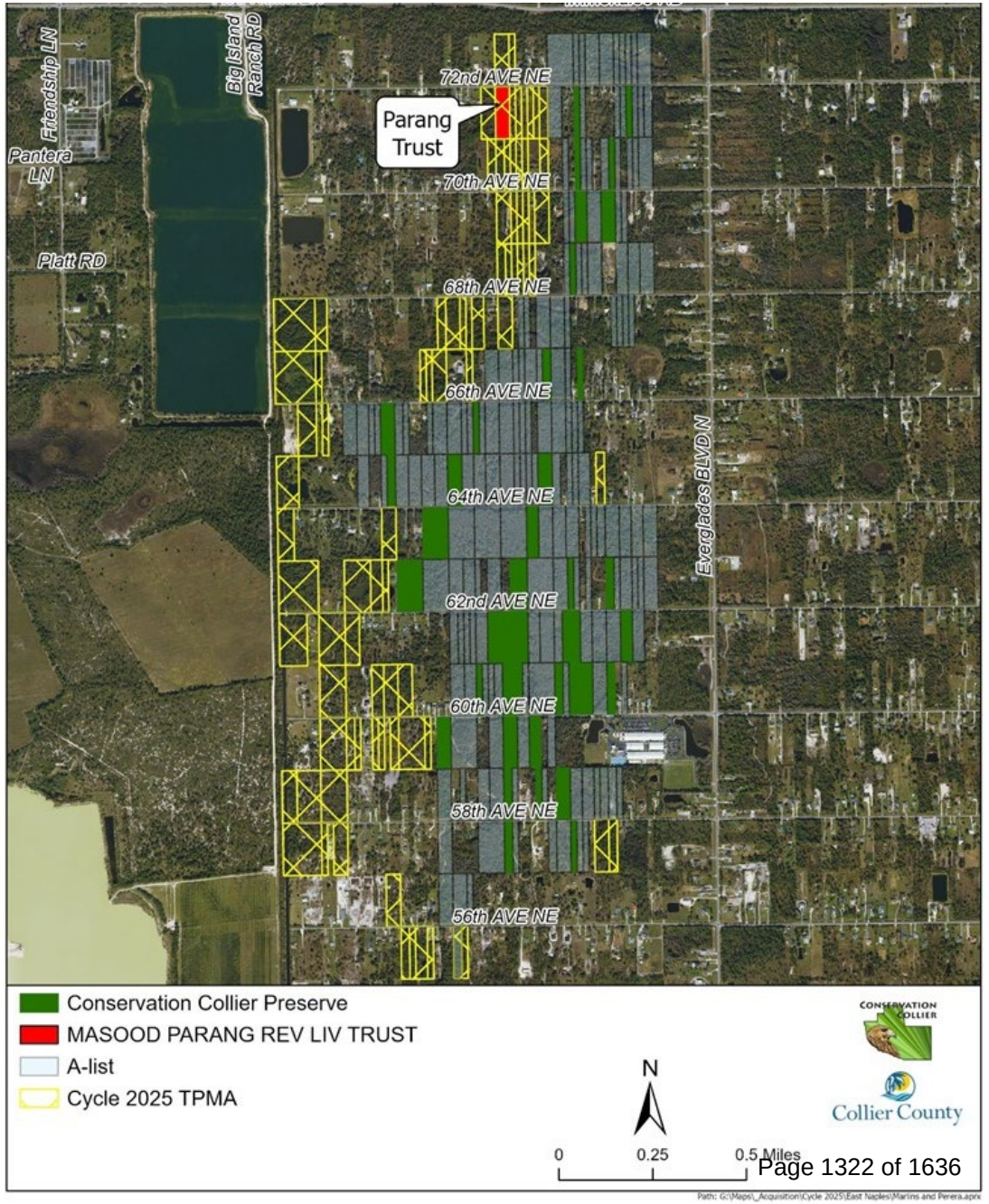
Conservation Collier Land Acquisition Advisory Committee



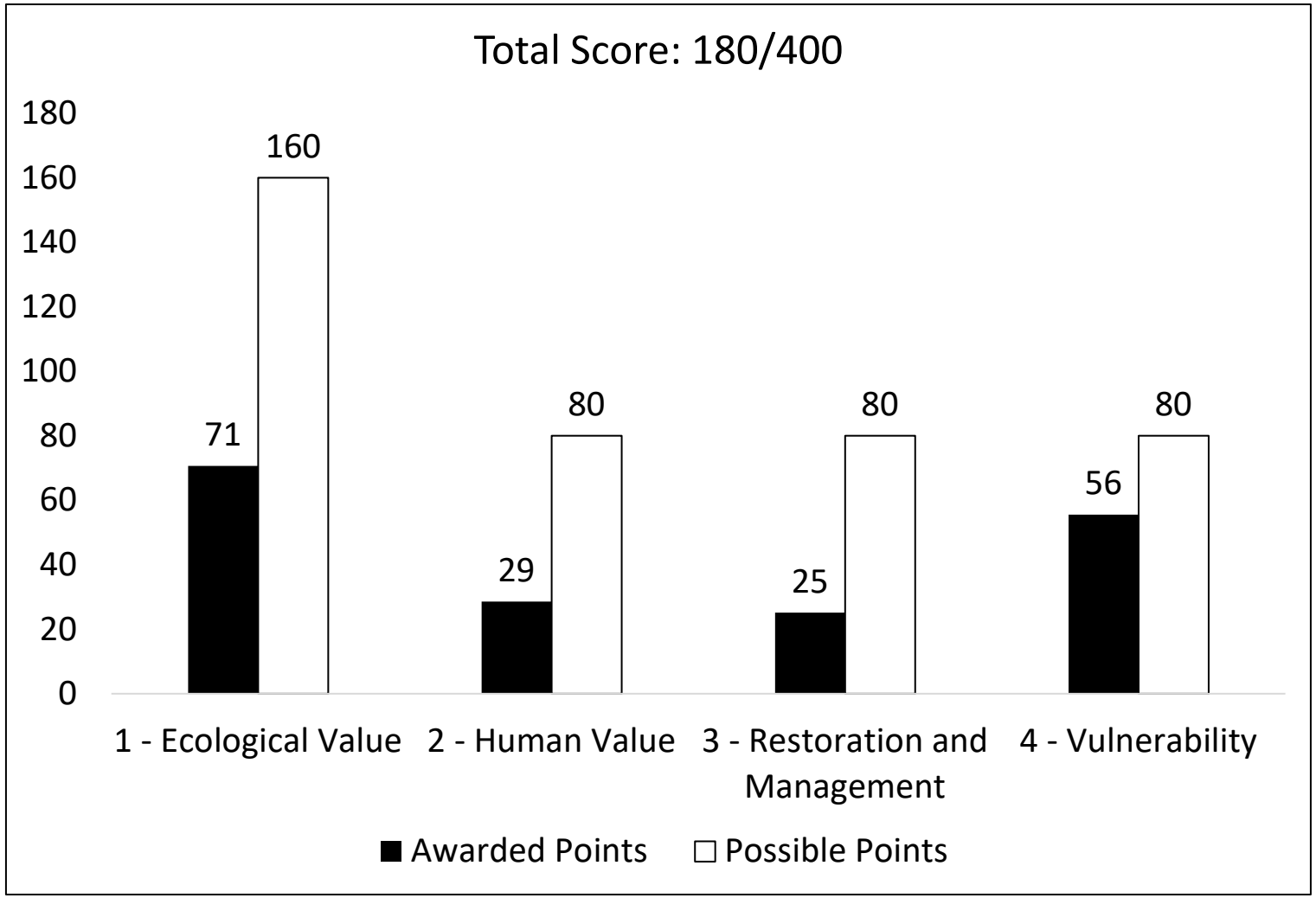
Parang Trust (2024 B-list) – Panther Walk Preserve TPMA

- Acreage: 2.73 acres
- Location: South off 72nd Ave NE, west of Everglades Blvd. N., west of the Panther Walk Preserve project area





Parang Trust – Secondary Criteria Score Summary



Parang Trust - Ecological Value Score (71 out of 160)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**71**	**160**	**44%**
1.1 - Vegetative Communities	37	53	70%
1.2 - Wildlife Communities	19	27	70%
1.3 - Water Resources	15	27	55%
1.4 - Ecosystem Connectivity	0	53	0%

Vegetative Communities – Freshwater marsh; Cypress/mixed hardwood forest; Oak hammock

Wildlife Communities – potential listed wading bird species; probable large mammals if in area (white-tailed deer, FL black bear, FL panther); within FL Wildlife Corridor

Water Resources – Parcel contains 100% wetlands; within historic footprint of Horsepen Strand

Ecosystem Connectivity – Rural residential with vegetated lots and undeveloped lots, but no connection to existing conservation lands



Parang Trust Human Values Score (29 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
2 - Human Values	**29**	**80**	**36%**
2.1 - Recreation	6	34	17%
2.2 - Accessibility	20	34	58%
2.3 - Aesthetics/Cultural Enhancement	3	11	25%

Recreation – Opportunities for hiking in dry season

Accessibility – accessible year-round from 72nd Ave NE; street parking; On-site parking would impact mature oaks and would most likely require a site plan and permitting

Aesthetics/Cultural Enhancement – No outstanding aesthetics or cultural enhancement observed



Parang Trust Restoration and Management Score (25 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
3 - Restoration and Management	**25**	**80**	**31%**
3.1 - Vegetation Management	23	55	42%
3.2 - Remediation and Site Security	2	23	10%
3.3 - Assistance	0	2	0%

Vegetation Management – Relatively high at 50-60% within the marsh (Paragrass, West Indian marsh grass, Wright's nutrush); sparse ear-leaf acacia in other plant communities

Remediation and Site Security – multiple UTV trails throughout parcel; discouraging trespass will require barricades, but will be difficult to prevent

Assistance – No assistance anticipated



Parang Trust Vulnerability Score (56 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
4 - Vulnerability	**56**	**80**	**69%**
4.1 - Zoning and Land Use	56	58	96%
4.2 - Development Plans	0	22	0%

Zoning and Land Use – Zoned Estates – allows 1 unit per 2.25 acres

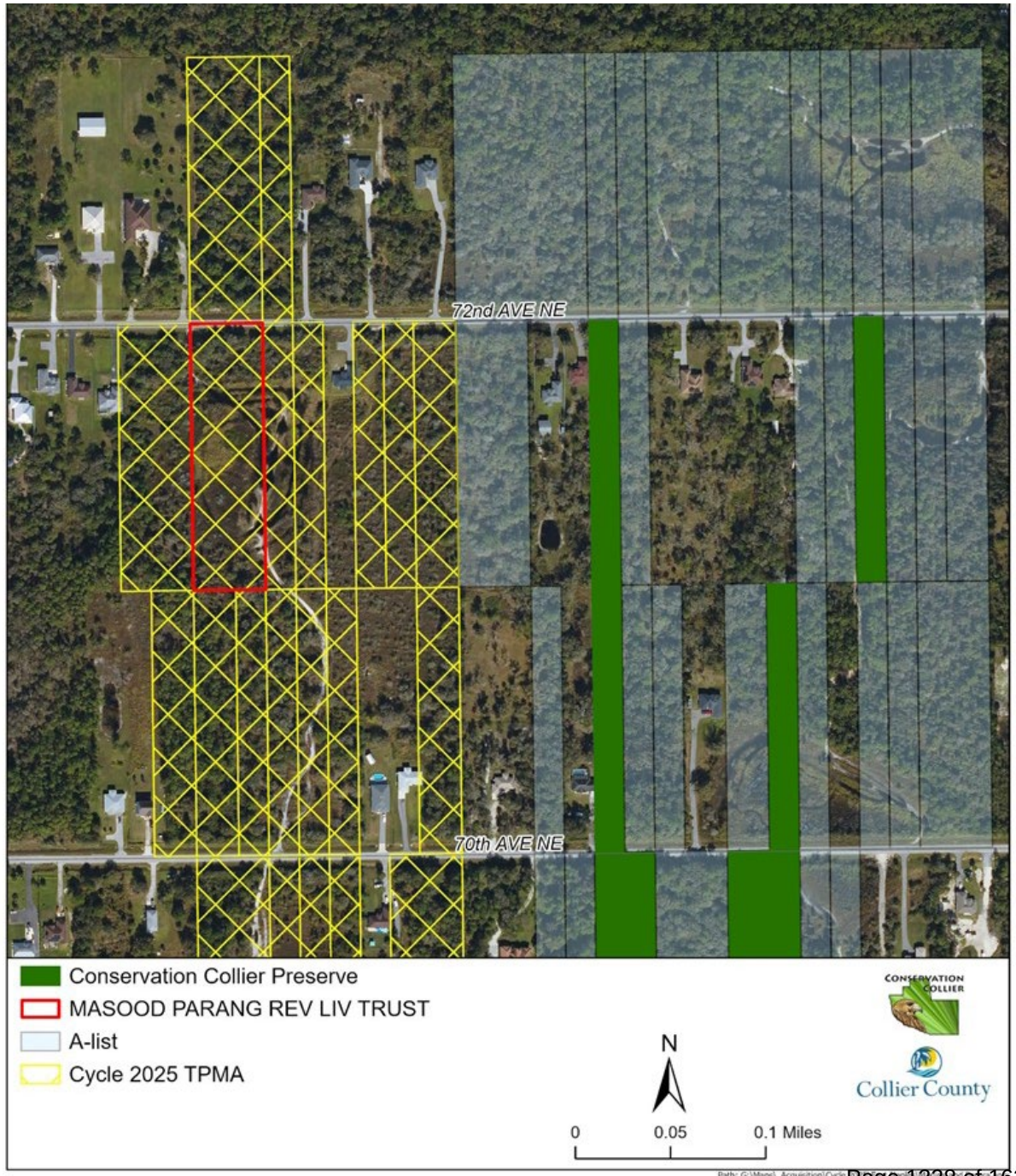
Development Plans – None; wetlands



Parang Trust Acquisition Considerations

- Asking price: $87,000
- Property Appraiser Assessed Value: $97,461
- Within FL Wildlife Corridor Foundation Target Area
- Staff recommendation - A-list

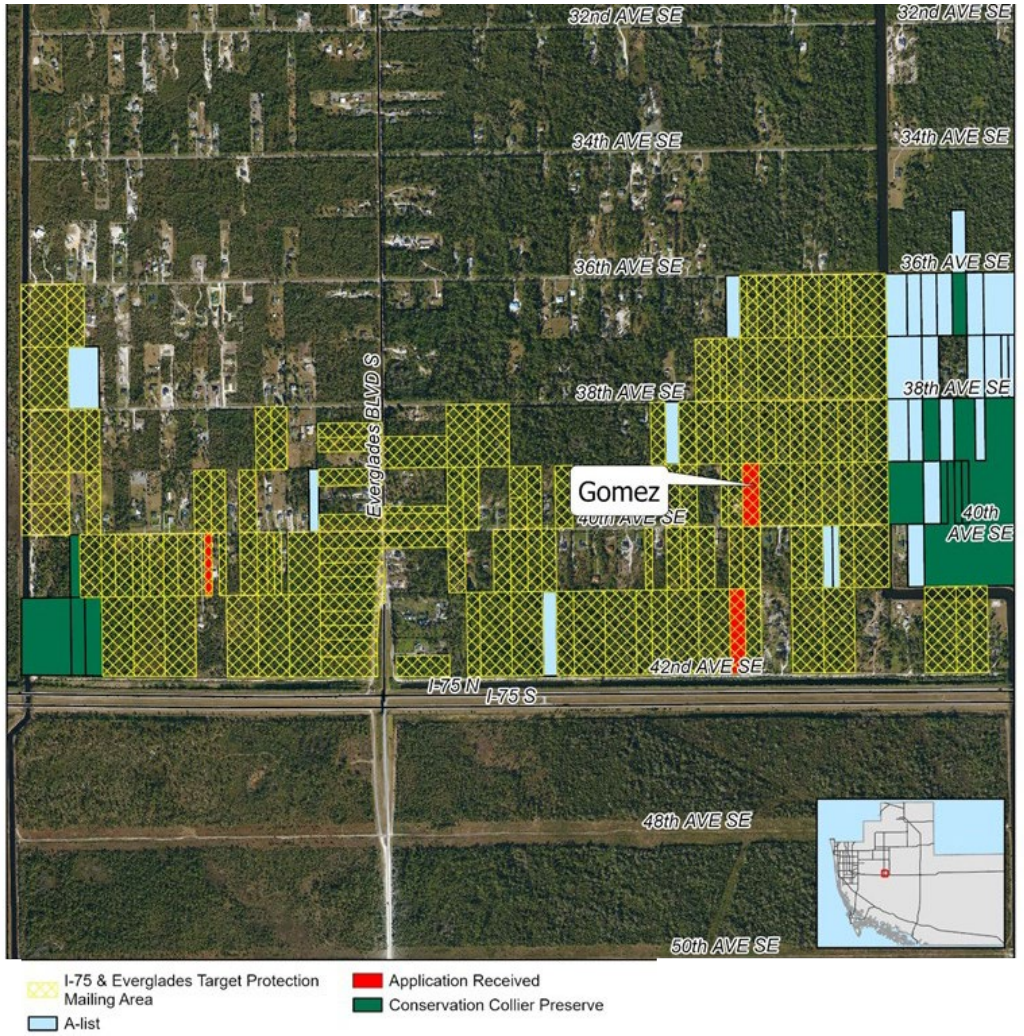




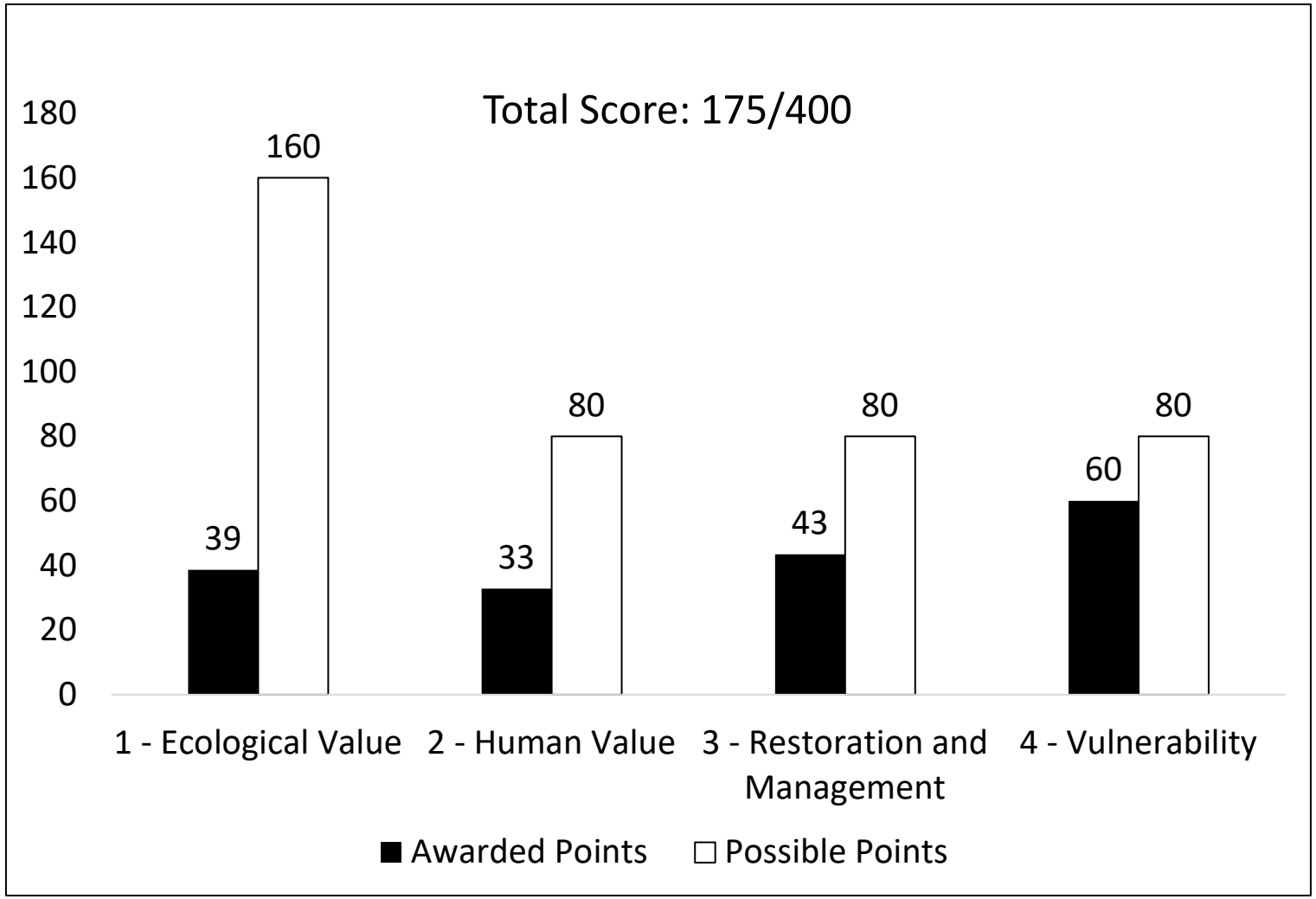
Gomez – I-75 & Everglades Blvd. TPMA

- Acreage: 2.73 acres
- Location: Within I-75 & Everglades Blvd. TPMA; Off 40th Ave SE, east of Everglades Blvd. S.





Gomez – Secondary Criteria Score Summary



Gomez Ecological Value Score (39 out of 160)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**39**	**160**	**24%**
1.1 - Vegetative Communities	11	53	20%
1.2 - Wildlife Communities	19	27	70%
1.3 - Water Resources	3	27	10%
1.4 - Ecosystem Connectivity	7	53	13%

Vegetative Communities – Cabbage Palm/Pine/Oak Hammock (cabbage palm, slash pine, laurel oak, myrsine, wild coffee, swamp fern); no listed plants observed; 30% exotics

Wildlife Communities – multiple black bear and FL panther telemetry around the parcel; within Florida Wildlife Corridor

Water Resources – mapped as hydric soils, but no wetlands appear to exist on-site; very little contributor to aquifer recharge

Ecosystem Connectivity – Not directly connected to conservation lands, but undeveloped lands between the parcel and the Dr. Robert H. Gore Preserve and Picayune Strand State Forest



Gomez Human Values Score (33 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
2 - Human Values	**33**	**80**	**41%**
2.1 - Recreation	6	34	17%
2.2 - Accessibility	23	34	67%
2.3 - Aesthetics/Cultural Enhancement	4	11	38%

Recreation – Opportunities for passive, recreational activities like hiking

Accessibility – Accessible year-round; street parking available

Aesthetics/Cultural Enhancement – Visible from gravel road – 40th Ave. SE; good example of mature slash pines



Gomez Restoration and Management Score (43 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
3 - Restoration and Management	**43**	**80**	**54%**
3.1 - Vegetation Management	34	55	63%
3.2 - Remediation and Site Security	9	23	40%
3.3 - Assistance	0	2	0%

Vegetation Management – The entire property contains approx. 30% exotic coverage; primarily Brazilian pepper with some Caesarweed observed; cabbage palm thinning may be necessary

Remediation and Site Security – ATV trespass would most likely be an issue if trails were installed

Assistance – No assistance anticipated



Gomez Vulnerability Score (60 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
4 - Vulnerability	**60**	**80**	**75%**
4.1 - Zoning and Land Use	56	58	96%
4.2 - Development Plans	4	22	20%

Zoning and Land Use – Zoned Estates – allows 1 unit per 2.25 acres

Development Plans – None



Gomez – Acquisition Considerations

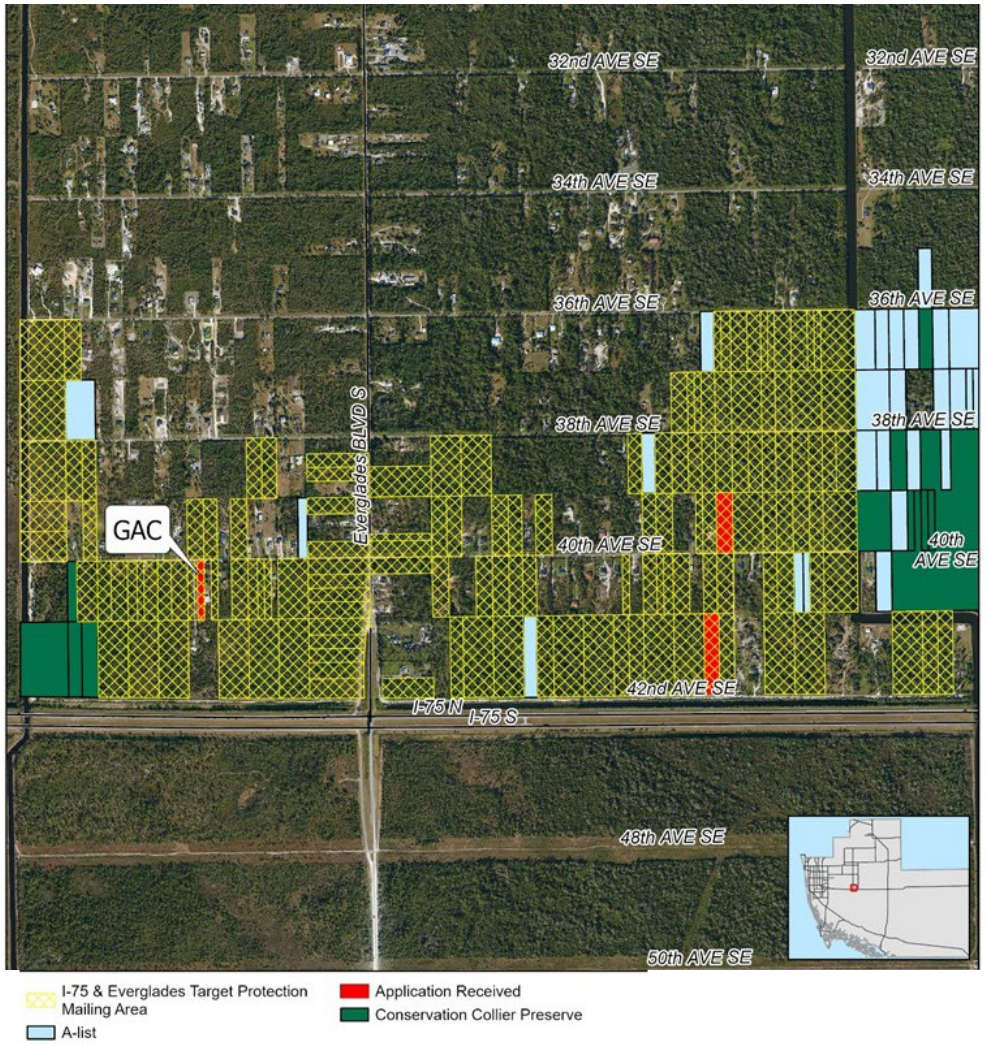
- Asking price: $102,375
- Property Appraiser Assessed Value: $96,915
- Potential for Everglades I-75 interchange and for Transportation to need land for ROW or ponds
- Staff recommendation – A-list



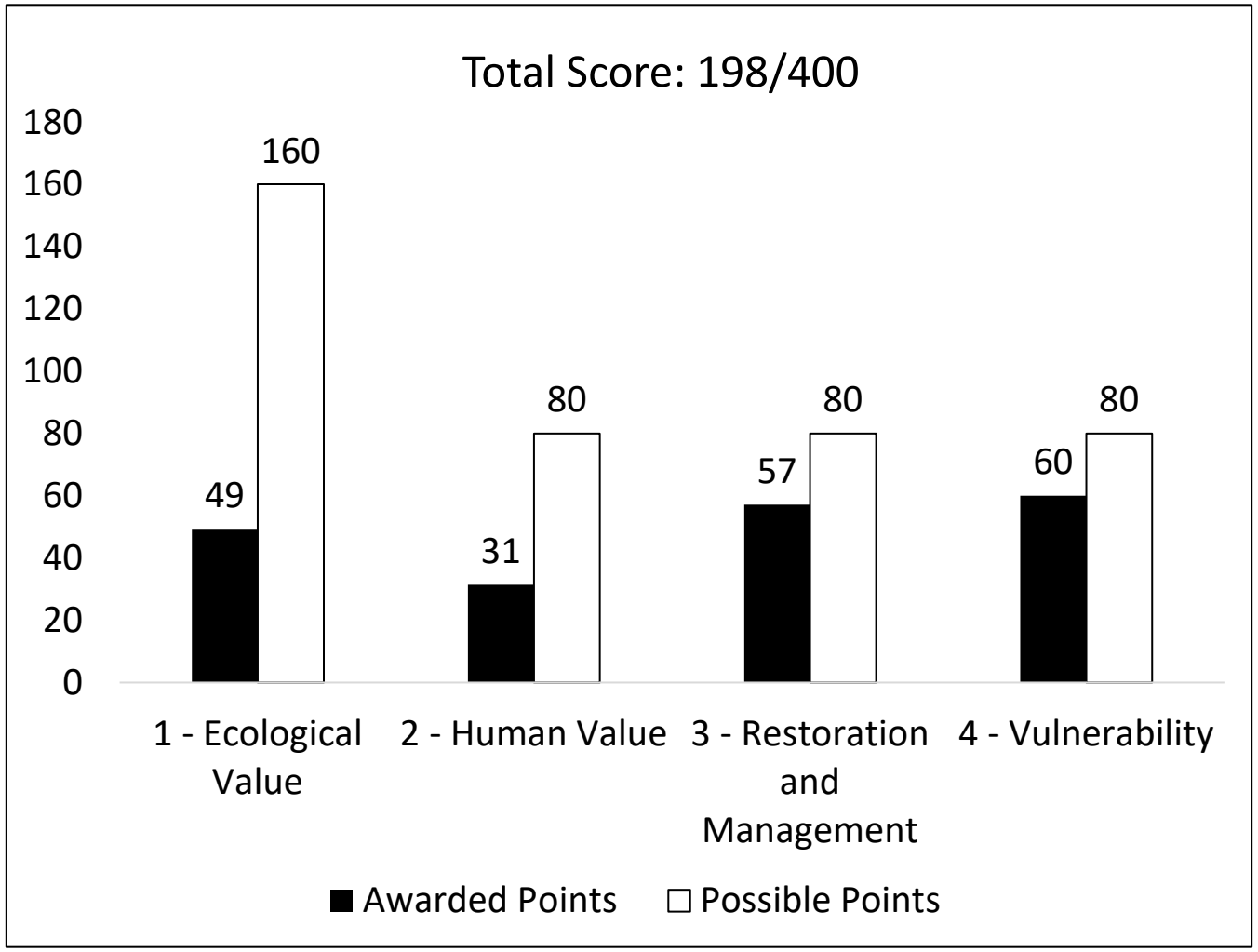
GAC – I-75 & Everglades Blvd. TPMA

- Acreage: 1.14 acres
- Location: Within I-75 & Everglades Blvd. TPMA; Off 40th Ave SE, west of Everglades Blvd. S.





GAC – Secondary Criteria Score Summary



GAC Ecological Value Score (49 out of 160)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
	49	**160**	**31%**
1.1 - Vegetative Communities	16	53	30%
1.2 - Wildlife Communities	24	27	90%
1.3 - Water Resources	3	27	10%
1.4 - Ecosystem Connectivity	7	53	13%

Vegetative Communities – Pine Flatwoods (slash pine, cabbage palm, some oaks, gallberry, rusty lyonia, American beautyberry, winged sumac, saw palmetto, wild coffee), mix of grasses, sedges, and herbaceous plants in groundcover (muscadine, bracken fern, swamp fern, smilax); no listed plant species observed; 10% exotic coverage – Brazilian pepper, Caesarweed, Burma reed, and tanglehead grass

Wildlife Communities – multiple black bear and FL panther telemetry around the parcel; gopher tortoise, eastern diamondback rattlesnake, and likely a Big Cypress fox squirrel observed by neighbor; within Florida Wildlife Corridor;

Water Resources – mapped as 100% hydric soils, but no wetlands observed; very little contribution to aquifer recharge

Ecosystem Connectivity – No direct connection to conservation land, but land between parcel and Hendrix House is undeveloped.



GAC Human Values Score (31 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
2 - Human Values	**31**	**80**	**39%**
2.1 - Recreation	6	34	17%
2.2 - Accessibility	23	34	67%
2.3 - Aesthetics/Cultural Enhancement	3	11	25%

Recreation – Opportunities for hiking, however between to privately owned properties

Accessibility – Accessible year-round via paved road; street parking

Aesthetics/Cultural Enhancement – no unique aesthetic or cultural enhancement



GAC Restoration and Management Score (57 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
3 - Restoration and Management	**57**	**80**	**71%**
3.1 - Vegetation Management	34	55	63%
3.2 - Remediation and Site Security	23	23	100%
3.3 - Assistance	0	2	0%

Vegetation Management – The entire property contains approx. 10% exotic coverage – Brazilian pepper, Caesarweed, Burma reed, and tanglehead grass; cabbage palm control may be necessary; prescribed fire beneficial, but difficult due to size and location adjacent to homes

Remediation and Site Security – None

Assistance – None anticipated



GAC Vulnerability Score (60 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
4 - Vulnerability	**60**	**80**	**75%**
4.1 - Zoning and Land Use	56	58	96%
4.2 - Development Plans	4	22	20%

Zoning and Land Use – Zoned Estates – allows 1 unit per 2.25 acres

Development Plans – None



GAC – Acquisition Considerations

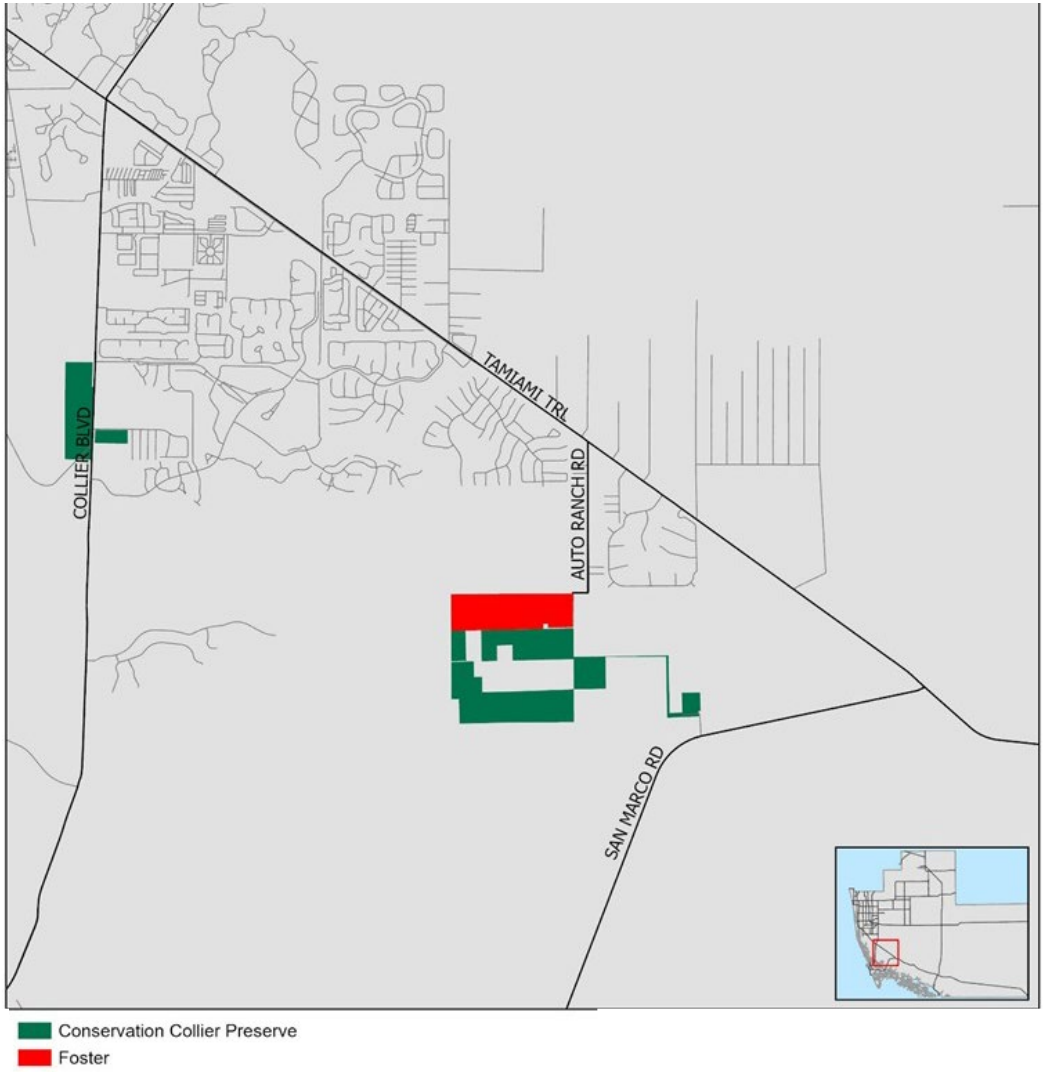
- Asking price: N/A
- Property Appraiser Assessed Value: $44,745
- Likely encroachment by neighbors would need to be addressed if acquired.
- Potential for Everglades I-75 interchange and for Transportation to need land for ROW or ponds
- Staff recommendation – A-list



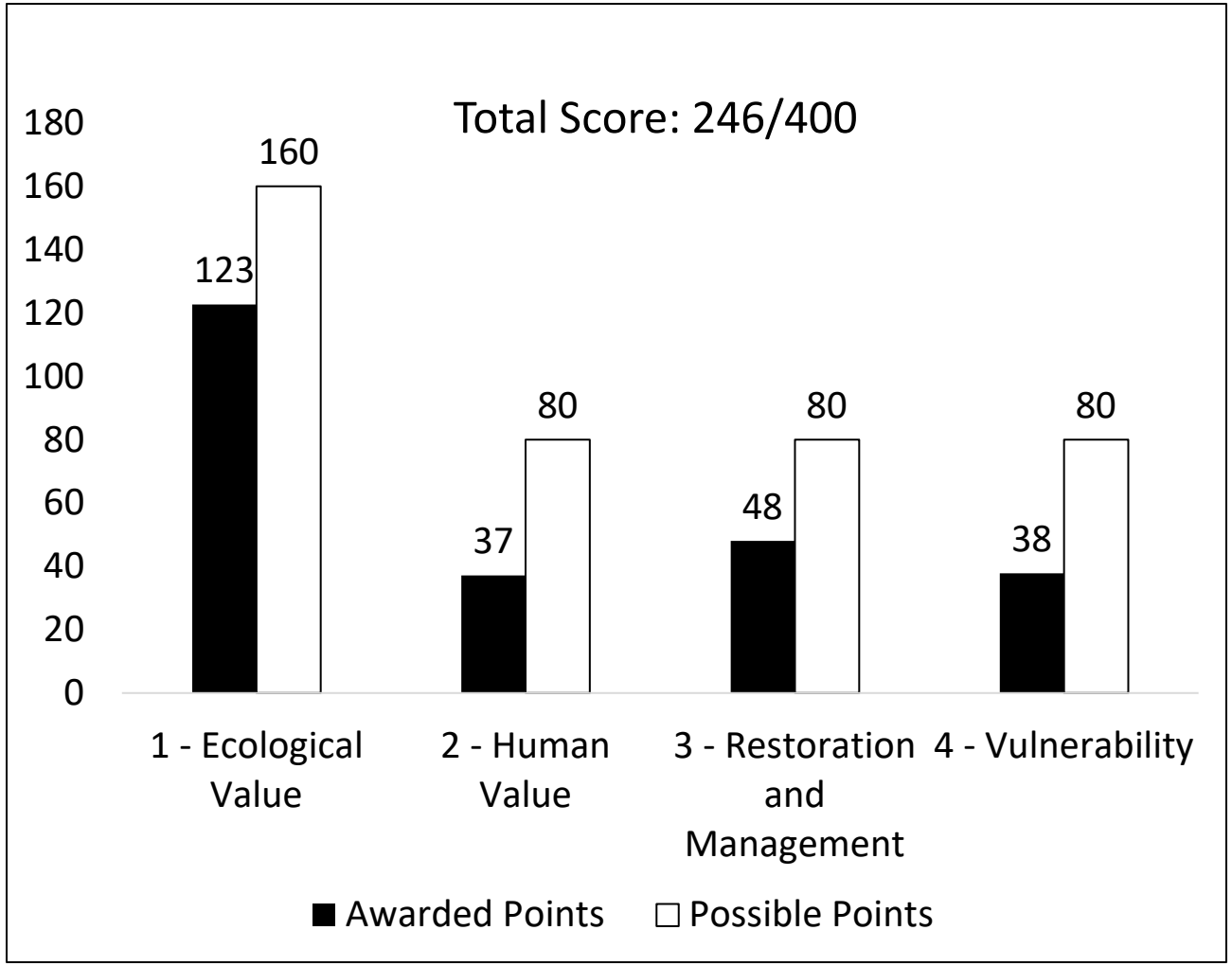
Foster – McIlvane Marsh Preserve TPMA

- Acreage: 157.55 acres
- Location: Adjacent to NW side of McIlvane Marsh Preserve within McIlvane Marsh Preserve TPMA





Foster – Secondary Criteria Score Summary



Foster Ecological Value Score (123 out of 160)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
1 - Ecological Value	**123**	**160**	**77%**
1.1 - Vegetative Communities	40	53	75%
1.2 - Wildlife Communities	27	27	100%
1.3 - Water Resources	16	27	60%
1.4 - Ecosystem Connectivity	40	53	75%

Vegetative Communities – Scrubby flatwoods, Mangrove swamp, Salt marsh, Freshwater marsh, Hydric pine flatwoods, Cypress, Wetland forested mixed, and Mixed shrubs; No listed plants observed

Wildlife Communities – Active gopher tortoise burrow observed on property; Florida panther and black bear telemetry points within parcel; wading birds observed; small portion of western side within FL Wildlife Corridor

Water Resources – Mapped as primarily hydric soils and contains majority wetlands; offers storm surge protection; adjacent to Outstanding FL Water Body; minimal contributor to aquifer recharge

Ecosystem Connectivity – Directly adjacent to Conservation Collier lands to the south and Rookery Bay NERR to the west



Foster Human Values Score (37 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
2 - Human Values	**37**	**80**	**46%**
2.1 - Recreation	11	34	33%
2.2 - Accessibility	23	34	67%
2.3 - Aesthetics/Cultural Enhancement	3	11	25%

Recreation – Could provide year-round access for passive, recreational activities like hiking and potentially hunting

Accessibility – Accessible year-round along a private road behind a locked gate off Auto Ranch Rd.; Parking is available on-site

Aesthetics/Cultural Enhancement – Good example of Scrubby flatwoods and provides scenic, vista views



Foster Restoration and Management Score (48 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
3 - Restoration and Management	**48**	**80**	**60%**
3.1 - Vegetation Management	43	55	79%
3.2 - Remediation and Site Security	2	23	10%
3.3 - Assistance	2	2	100%

Vegetation Management – The entire property contains approx. 30% exotic coverage – primarily Brazilian pepper, earleaf acacia, old world climbing, and melaleuca. Mahoe, cogongrass, torpedograss, and white lead tree were also observed. Old-world climbing fern is quite dense in some areas; Thick vegetation and tough terrain will make treatment difficult.

Remediation and Site Security – Trespass with firearms a potential; Soil and water testing necessary to determine whether remediation is required.

Assistance – Assistance from Rookery Bay and Collier Seminole anticipated for prescribed fire.



Foster Vulnerability Score (38 out of 80)

Criteria	Awarded Weighted Points	Possible Weighted Points	Awarded/Possible Points
4 - Vulnerability	**38**	**80**	**47%**
4.1 - Zoning and Land Use	33	58	58%
4.2 - Development Plans	4	22	20%

Zoning and Land Use – Agricultural; 1 unit per 5 acres

Development Plans – None





Foster – Acquisition Considerations

- Asking price: $5,000,000
- Property Appraiser Assessed Value: $753,741
- Old building and pile of ceiling tiles on property







Foster – Acquisition Considerations

Vehicle salvage yard since sometime between 1962 and 1969. All vehicles have been removed. Salvage yard operational until around 2021. Operated under FDEP “Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity”. Stormwater discharge tested for Aluminum, Iron, Lead, and Suspended Solids. Did not identify any soil or groundwater testing results in FDEP online files.



1985



2025

Foster

Staff Recommendation: A-list or C-list



From: Emily Brockmeier
To: Jennifer Belpedio; Summer Araque
Cc: Melissa Hennig
Subject: RE: GAC property for CCLAAC review
Date: Monday, December 1, 2025 5:56:09 PM
Attachments: image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
image010.png
CountyLogo-FullColor_948165c4-9665-41b4-9162-fbb16abff557.png
Facebook_0522f546-5e75-4698-95f9-f15590a3defe.png
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X-Twitter_8d678efc-bd14-44ce-97cf-7fbab1003b00.png
Youtube_0078f7f1-7789-4afd-a015-50689fe1f99b.png
311IconforSignature_87c558eb-83f5-449b-87c1-3cc5ac8b0859.png

Hi Summer!

Please let me know if you need anything more than what I've provided below.

On November 15, 1983, Avatar Properties Inc., formerly known as GAC Properties, Inc., entered into an agreement with Collier County, Florida, to donate 1,061.5 acres of land to the County (GAC Land Trust). The lands deeded under this agreement are restricted for use in providing governmental facilities for existing and future residents of Collier County, with all capital improvements required to be physically located within the geographical boundary of Golden Gate Estates. In addition, any proceeds from the sale of these lands must be utilized for capital projects situated in Golden Gate Estates. Governmental facilities that may be constructed on the property or funded through proceeds from the sale of the property, include fire protection facilities, police facilities, public schools, libraries, recreational facilities, and equipment necessary for related operations.

In practice, funds generated through the GAC Land Trust pursuant to this agreement continue to be reinvested into Golden Gate Estates through infrastructure and capital improvements. Recent allocations have supported public safety facilities and equipment in the Estates area, including funding for a water tender truck for Greater Naples Fire Rescue to assist with brush fire response.

Best,

Emily Brockmeier
Management Analyst I
Operations & Performance Management

Office:239-252-4609

2685 Horseshoe Drive South, Suite 103
Naples, FL 34104
Emily.Brockmeier@collier.gov

My email address has changed. Effective immediately, please update your contact list to use this new address: Emily.Brockmeier@collier.gov

---

From: Jennifer Belpedio <Jennifer.Belpedio@collier.gov>
Sent: Monday, December 1, 2025 5:56 PM
To: Summer Araque <Summer.Araque@collier.gov>; Emily Brockmeier <Emily.Brockmeier@collier.gov>
Cc: Melissa Hennig <Melissa.Hennig@collier.gov>
Subject: RE: GAC property for CCLAAC review

Summer,

Emily will respond to you.

Jennifer Belpedio
Manager - Property Acquisition

Operations & Performance Management

Office:239-252-8780

2685 Horseshoe Drive, South
Naples, Florida 34104
Jennifer.Belpedio@collier.gov

My email address has changed. Effective immediately, please update your contact list to use this new address: Jennifer.Belpedio@collier.gov

---

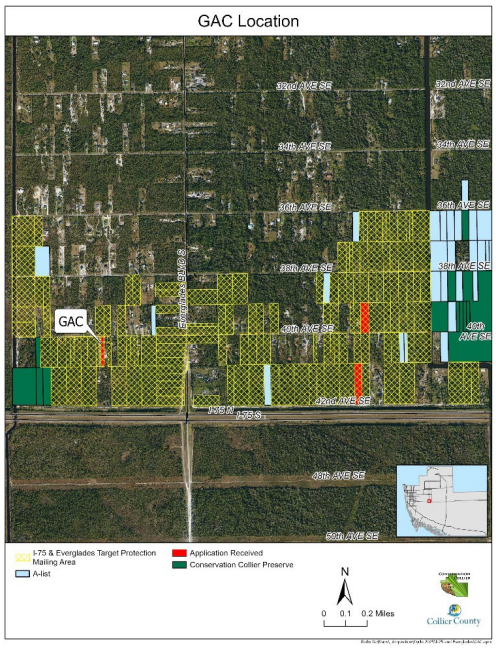
From: Summer Araque <Summer.Araque@collier.gov>
Sent: Monday, December 1, 2025 4:37 PM
To: Jennifer Belpedio <Jennifer.Belpedio@collier.gov>; Emily Brockmeier <Emily.Brockmeier@collier.gov>
Cc: Melissa Hennig <Melissa.Hennig@collier.gov>
Subject: GAC property for CCLAAC review
Importance: High

Jennifer/Emily,
Could you provide us with a brief paragraph of what the GAC settlement is?

Jennifer and Emily,
We plan to apply to indicate interest in the property below. Are one of you able to provide a brief explanation of the GAC settlement for us to provide to the CCLAAC on Wednesday morning this week?
They will be "ranking" the property before we apply.

GAC 1.14 acres – I-75 & Everglades TPMA: **A-list**

1. Withing TPMA
2. Small parcel between 2 homes, but gopher tortoise, eastern diamond back rattlesnake, and Big Cypress fox squirrel present on property
3. Low exotics; upland pine flatwoods
4. Neighbor on south and west does not plan on clearing of selling; property across the street is undeveloped





Summer Araque

Supervisor - Environmental
Development Review

Office:239-252-2979
Mobile:239-289-9751

Naples, FL
Summer.Araque@collier.gov



My email address has changed. Effective immediately, please update your contact list to use this new address: Summer.Araque@collier.gov

Under Florida Law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by telephone or in writing.

From:	Emily Brockmeier
To:	Emily Brockmeier
Cc:	Jennifer Belpedio; Roosevelt Leonard; Iveta Willer; Vera Ivanova
Subject:	CHANCE TO ACQUIRE COUNTY-OWNED PROPERTY BEFORE PUBLIC OFFERING
Date:	Friday, November 14, 2025 2:46:50 PM
Attachments:	! GAC Land Trust Holdings October 2025.pdf CountyLogo-FullColor_948165c4-9665-41b4-9162-fbb16abff557.png Facebook_0522f546-5e75-4698-95f9-f15590a3defe.png Instagram_a8da4774-4b5b-4ad1-8d23-20e69b3b605d.png X-Twitter_8d678efc-bd14-44ce-97cf-7fbab1003b00.png Youtube_0078f7f1-7789-4afd-a015-50689fe1f99b.png 311IconforSignature_87c558eb-83f5-449b-87c1-3cc5ac8b0859.png

Good afternoon,

Collier County Real Property Management Section is reaching out to share an opportunity for County departments and Constitutional Officers to review and potentially acquire properties held under the GAC Land Program. These parcels may be used for future government facilities or operational needs.

Each parcel's location, folio number, and indicative property appraiser's value are shown on the attached map. If you identify a potential need or fit, we encourage you to complete the form linked below.

To indicate interest in one of the parcels, please fill out the form located HERE.

If there is interest in acquisition, appraisals will be obtained, with the requester responsible for the cost of the appraisal(s), all closing costs, the property's appraised value, and development of the business case for acquisition. If the requester wishes to move forward with the purchase, Real Property will prepare the sales contract and coordinate its consideration by the GAC Advisory Board and the Board of County Commissioners.

To allow sufficient time for internal review and coordination, please submit the form **by December 15, 2025**. Parcels not identified for internal use will be competitively offered for sale in early 2026 in accordance with statutory requirements.

If you have any questions, please don't hesitate to contact our team. We'll gladly help you explore available options and guide you through the process.

We appreciate your partnership and look forward to helping you identify opportunities that support your mission.

Thank you!

Emily Brockmeier
Management Analyst I
Operations & Performance Management

Office:239-252-4609

2685 Horseshoe Drive South, Suite 103
Naples, FL 34104
Emily.Brockmeier@collier.gov

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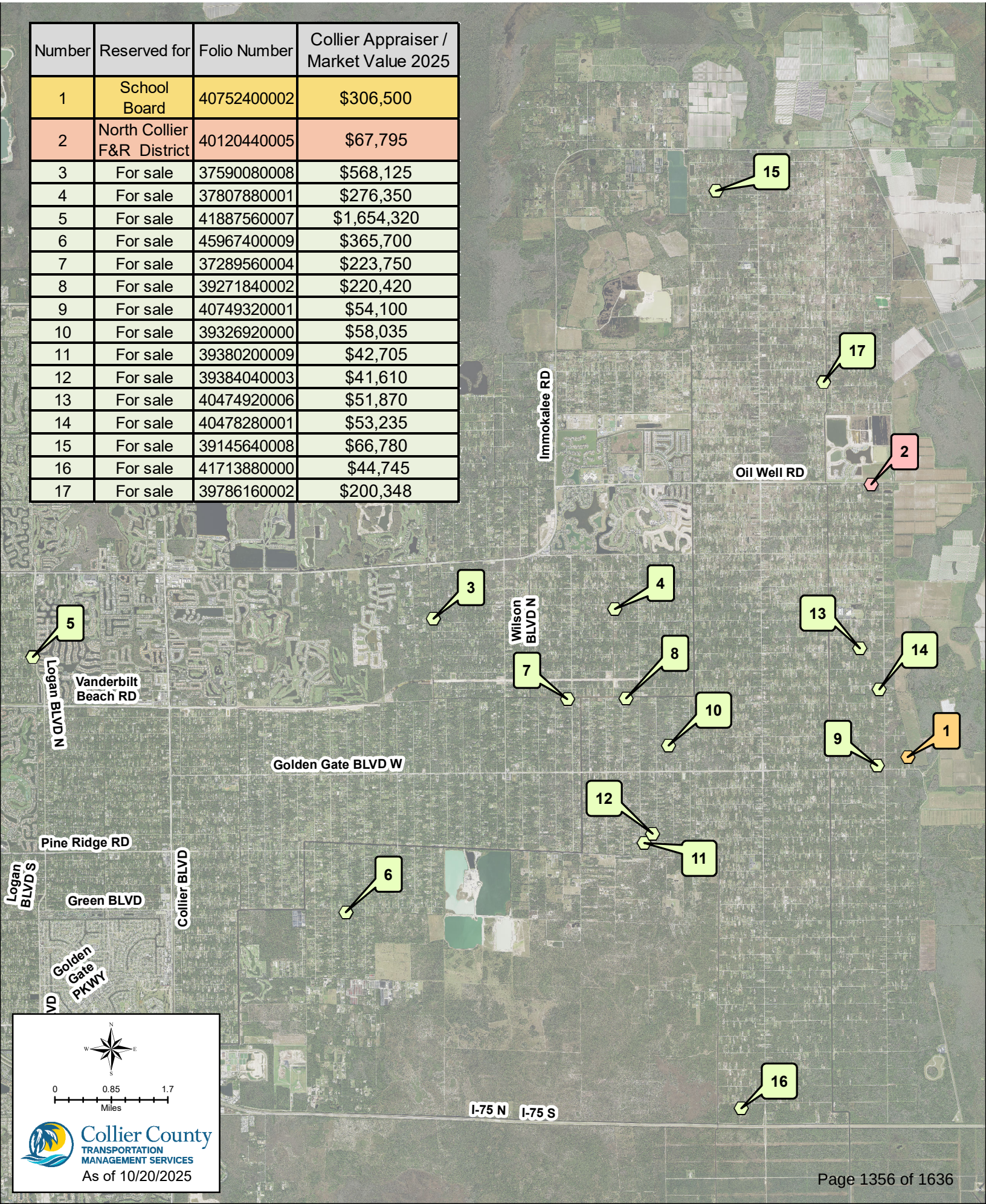
Under Florida Law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by telephone or in writing.

GAC Land Trust Holdings

Number	Reserved for	Folio Number	Collier Appraiser / Market Value 2025
1	School Board	40752400002	$306,500
2	North Collier F&R District	40120440005	$67,795
3	For sale	37590080008	$568,125
4	For sale	37807880001	$276,350
5	For sale	41887560007	$1,654,320
6	For sale	45967400009	$365,700
7	For sale	37289560004	$223,750
8	For sale	39271840002	$220,420
9	For sale	40749320001	$54,100
10	For sale	39326920000	$58,035
11	For sale	39380200009	$42,705
12	For sale	39384040003	$41,610
13	For sale	40474920006	$51,870
14	For sale	40478280001	$53,235
15	For sale	39145640008	$66,780
16	For sale	41713880000	$44,745
17	For sale	39786160002	$200,348



Freedom Park & Gordon River Greenway FCT Management Plan and Gordon River Greenway Preserve Management Plan

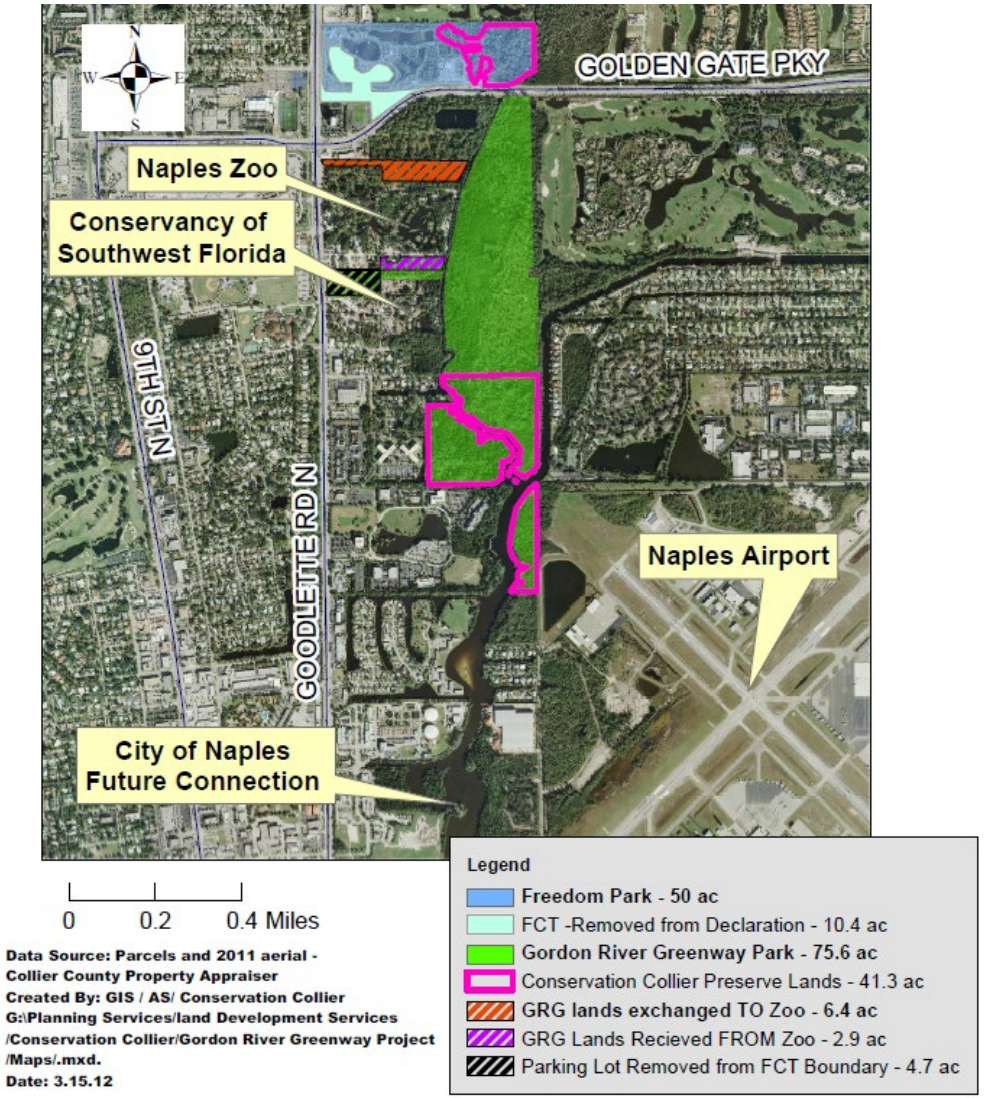
CCLAAC
December 3, 2025



Freedom Park and Gordon River Greenway Park FCT Land Management Plan

- Acreage: 50.0 acres Freedom Park; 124+ acres Gordon River Greenway Park
- Last updated: May 2012





Freedom Park and Gordon River Greenway Park FCT Land Management Plan

- Major Change – Stormwater spreader swale on northern boundary
- Other updates – completion of Greenway construction and updated plant list
- LEMS recommendations
    - Add language explaining the relationship of the 2 different plans
    - Include information on potential Golden Gate Pkwy. pedestrian crossing





Freedom Park and Gordon River Greenway Park FCT Land Management Plan

- Potential Golden Gate Pkwy. pedestrian crossing

TABLE 2: Alternatives Comparison

Issue	Proposed Improvement		
	Overpass Option	Underpass Option	On-Street Option
Roadside Safety	B	C	B
	Bridge Towers/Ramps will be located outside Clear Zone	Guardrail needed to protect users from MSE wall drop-off(s)	Vehicle/Pedestrian Conflict Point
Pedestrian Safety	B	C	C
	Climb/Fall Concerns	Crime, Flood, Illumination, Railing Fall Concern	Vehicle/Pedestrian Conflict Point
Future Accommodations	B	D/F	A
	Can add future lane if needed by using barrier wall	Relocate MSE Walls, MOT, Significant cost	Minor costs
Constructability and MOT	B	D/F	A
	Minor Lane closures	Significant Issues - Lane Closures/Phased Construction	Minor Issues
Environmental Impacts	B/C	C/D	A
	Ramp vs. Stair/Elevator Evaluation will Determine	Wetland, Groundwater Pumping, Raised Profile - Noise Impacts	No Issues
Utility Impacts	C	C/D	A
	FPL Transmission/Distribution Impact(s) Isolated location(s)	Underground Utility Impacts 1800 LF N/S sides, Potential FPL	No/Minor Impacts
Ease of Use	C	B	A
	Ramps Inconvenient/Circuitous	Ramps Inconvenient/Circuitous	Push Button - No Issues
Aesthetics	A/B	D	B/C
	Dependant on Type of Structure selected - "Landmark Consideration"	No signature appeal, MSE Walls, Railings, Guardrails	Typical Application
Construction Cost	C/D	D/F	A
	Dependant on Type of Structure selected - "Landmark Consideration"	Initial Construction and Long Term Maintenance Costs Significant	Minimal Costs
Maintenance	B/C	D/F	A
	Routine Inspection, Painting, Elevator/Ramp/Railing Maintenance	Routine Inspection, Painting, Ramp/Railing Maintenance, Pumping System, Lighting, MSE Walls	Minor - Typical Maintenance
Grading Scale:			
A = Most Desirable	*B = Desirable*	*C = Satisfactory*	
D = Less Desirable	*F = Unacceptable*		



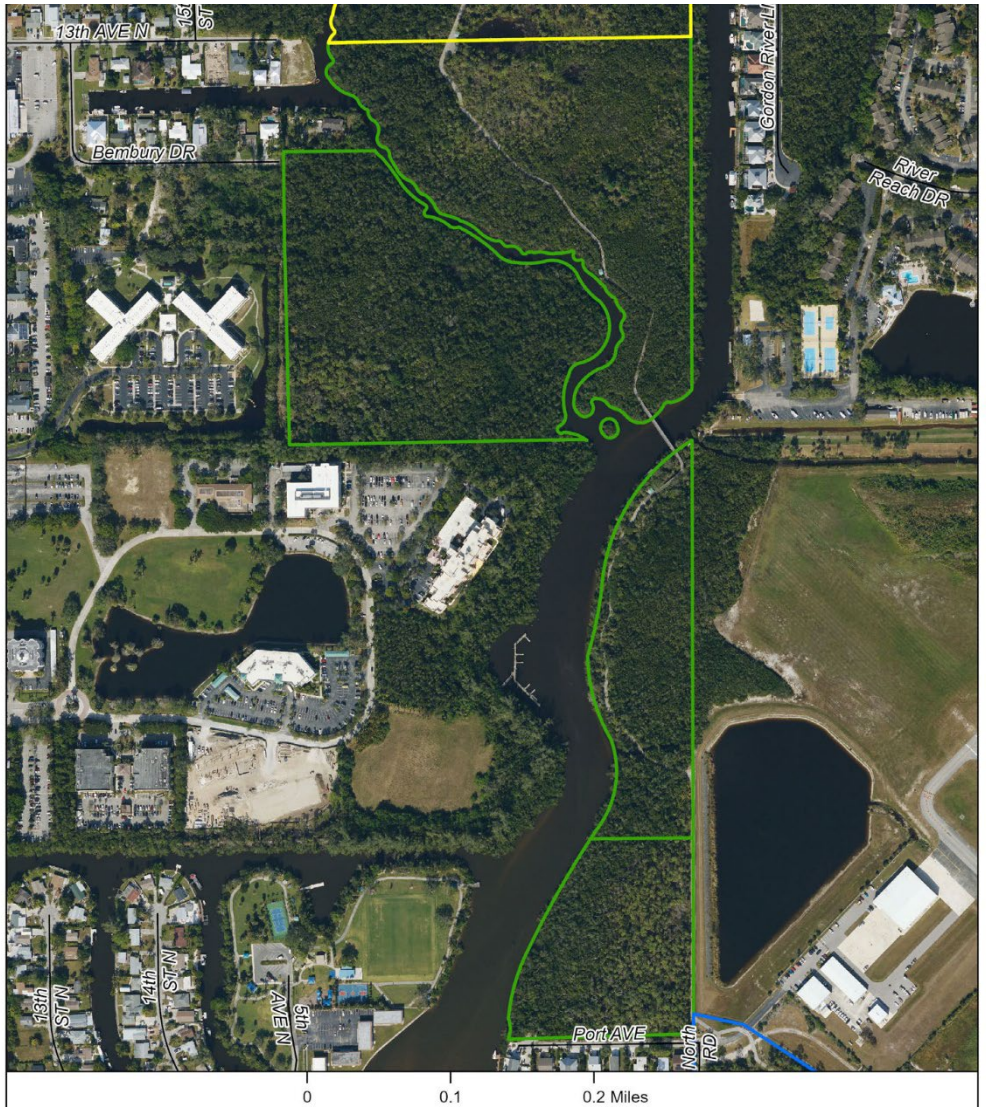
TABLE 3: Estimate of Probable Construction Cost

Crossing Option	Description	Probable Cost
Overpass	Utilitarian Aesthetics (FDOT Level 1)	$ 2 to $ 3 M
	Mid-level Aesthetics (FDOT Level 2)	$ 3 to $ 4 M
	Signature Aesthetics (FDOT Level 3)	$ 4 to $ 5 M
Underpass	Golden Gate Parkway Elevated with phased construction	$ 8 M
On-Street	Across from Freedom Park	$ 200 K
	Across from Gordon River Greenway	$ 200 K

Gordon River Greenway Preserve Final Land Management Plan

- Acreage: 51.05 acres
- Last updated: June 2011





Gordon River Greenway Preserve Final Land Management Plan

- Major Change – Addition of 7.51-acre CDC parcel on south end
- Other updates
  - Completion of Greenway construction
  - Updated plant list
  - Updated natural communities to reflect reduced exotic plant infestation and maritime hammock plantings
  - Updated soils to include additional CDC parcel to south
- LEMS recommendations
  - Add language explaining the relationship of the 2 different plans
  - Put Table 1 in chronological order
  - Add stronger language in iguana section. Staff added – “Green iguana population will be controlled as necessary through trapping or other humane means.”





Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

colliercountyfl.gov
twitter.com/CollierPIO
facebook.com/CollierGov
youtube.com/CollierGov

December 11, 2025

FOR IMMEDIATE RELEASE

Notice of Hybrid Remote Public Meeting
Lely Beautification MSTU Advisory Committee
Collier County, Florida

December 18, 2025
2:00 p.m.

Notice is hereby given that the **Lely Beautification Municipal Service Taxing Unit (MSTU) Advisory Committee** will meet on **Thursday, December 18, 2025,** at **2:00 p.m.** This will be a Hybrid Remote meeting and held in the Conference Room at the South Regional Library, 8065 Lely Cultural Pkwy, Naples, Florida. The public may participate either remotely or in person.

Individuals who would like to participate remotely should contact Rosio Garcia at Rosio.Garcia@collier.gov by noon on December 18.

Remote participation is provided as a courtesy and is at the user's risk. The County is not responsible for technical issues.

The agenda will be available on the Collier County Government website at https://www.collierptne.com/mtsu/lely-golf-estates-beautification-advisory-committee/.

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call Jeffrey Felger at (239) 252-5775.

###

GOLF ESTATES BEAUTIFICATION MSTU

ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104

AGENDA
December 18, 2025

1. **CALL TO ORDER**
2. **ATTENDANCE**

Kathleen Dammert - Vice Chair (10/1/26)
Dimitra Arneson (10/1/26)
Michael Mann (10/1/29)
Lisa McGarity (10/1/29)
-Committee Vacancy-

Ellen Sheffey – Interim Director, PTNE
Jeffrey Felger – Project Manager
Rosio Garcia – Operations Coordinator
Michael McGee – McGee & Associates
Armando Yzaguirre – A&M Property Maint.
Wendy Warren – Premier Staffing

3. **APPROVAL OF AGENDA**
4. **APPROVAL OF MINUTES –** November 20, 2025
5. **CHAIR'S REPORT**
6. **CONTRACTOR REPORTS**
   - **a.** Landscape Architect's Report – M°Gee & Associates (M&A)
   - **b.** Landscape Maintenance – A&M Property Maintenance (A&M)
7. **PROJECT MANAGER'S REPORT – Jeffrey Felger**
   - **a.** Budget Report
   - **b.** Lighting Inspection Report
   - **c.** Radar Speed Reports
8. **ONGOING BUSINESS**
   - **a.** Irrigation issues – Everything is up and running
   - **b.** Right of way – working with Right of way Inspector Alex Blanco- Rattlesnake and Doral. Called permitting to see if they have some information.
   - **c.** Contemporary Controls and Communication Inc. "Irrigation Controllers" - Waiting on the final Proposal for the added piccolo controllers. Then it will be sent to procurement.
9. **NEW BUSINESS**
   - **a.** Perennial Peanut plant – A&M New Plants Installed – Yellow Bulbine
   - **b.** Fertilization – A&M – slow release.
   - **c.** Lights out – working with A&M and Simmonds to get a total number of lights out and a quote from Simmonds. The electric box is going to need some work on the one side - it's not pushing the right amount of electricity to the lights. And a new Photocell will also be installed.
   - **d.** Trees Scapes of Naples – Trees have been trimmed
   - **e.** I want to talk about removing the palms that just make a mess at the entryway. They just don't look appealing and this palm just makes a mess. At the entry way on both sides of our signs on US-41 and St Andrews Blvd.
   - **f.** Quotes

10. **COMMITTEE MEMBER COMMENTS**
11. **PUBLIC COMMENT**
12. **ADJOURNMENT**

NEXT MEETING:

JANUARY 15TH, 2025 AT 2:00 PM
South Regional Library
8065 Lely Cultural Pkwy
Naples, FL 34113, (239) 252-7542

GOLF ESTATES BEAUTIFICATION MSTU

ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104

Minutes

NOVEMBER 20, 2025

I. Call to Order

The meeting was called to order at 2:04 P.M. Roll call was taken, and a quorum of three were established.

II. Attendance

Committee Members: Kathleen Dammert, Vice Chair; Michael Mann, Lisa McGarity, Dimitra Arneson; Open Seat
County Staff: Ellen Sheffey, Interim Director, PTNE (Excused); Jeffrey Felger, Project Manager, PTNE; Rosio Garcia, Operations Analyst, PTNE; Keyla Castro, Operations Support Specialist, PTNE (ZOOM)
Contractors: Armando Yzaguirre, A & M Property Maintenance; Wendy Warren, Premier Staffing
Guests: Pat McCabe, Resident

III. Approval of Agenda

Ms. McGarity moved to approve the Agenda of the Lely Golf Estates Beautification MSTU Advisory Committee as amended:
Add: Item VIII-C: Sign Easement Doral Circle.
Second by Vice Chair Dammert. Carried unanimously 4 - 0.

IV. Approval of Minutes – October 16, 2025

Vice Chair Dammert moved to approve the Lely Golf Estates Beautification MSTU Advisory Committee meeting minutes of the October 16, 2025, as presented. Second by Mr. Mann. Carried unanimously 4 - 0.

V. Chair's Report

Summary reports will commence pending the election of a Committee Chairperson.

VI. Contractor Reports

A. Landscape Architect's Report – McGee & Associates (M&A)

Mr. McGee summarized the November 6, 2025, observation report.
(The full reports included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

Maintenance Areas

1. St. Andrews Blvd.
2. Forest Hills Blvd. & Cart Crossing
3. Valley Stream Circle
4. Pebble Beach Blvd. & Cart Crossing
5. Thorncrest, Briarcliff, and Heather Grove Lanes (cul-de-sacs)
6. Baltusrol Drive & Cart Crossing

7. Doral Circle
8. Rattlesnake Hammock Rd.

Mr. McGee reported:

All Locations

Areas highlighted in yellow indicate replacements are needed.
Herbicide Spray with color tracer dye in the mix is recommended.
Review pruning areas for mulch.
Remove volunteer plants in beds.
African Iris plants are exhibiting brown foliage, review irrigation coverage.

St. Andrews Blvd.

- Median #8: Recommend renovation of Bougainvillea planting area.
- Replace Yellow African Iris under warranty and mulch area.

Valley Stream Circle

- Median #13:
  - Reinstall Duck Bill cables and treat tree for Carpenter ants.
  - Recommend replacement of Plumbago shrubs.

Doral Circle

- East ROW: Treat Torpedo grass in Liriope plants at benches.
- West ROW & Rattlesnake Hammock Road
  - The soil elevation along the edge of the sidewalk washed away and needs to be replaced.
  - The Iris and Podocarpus beds need to be mulched.
  - Behind the Podocarpus hedge adjacent property plants need to be pruned back to fence and debris removed.
  - Remove volunteer plants from the Ficus hedge.
- Median#23:
  - Remove volunteer shrubs and weeds from Variegated Ginger plants.

Comments

Mr. Felger will be in contact with the Road Maintenance Division for an update on sidewalk repairs/replacement.

B. Landscape Maintenance Report – A & M Property Maintenance (A&M)

Mr. Yzaguirre reported:

- Routine maintenance is being performed as scheduled.
- The proposal for tree replacements was not approved. The quote will be resubmitted and trees planted upon completion of the irrigation system conversion.
- Quotes will be updated for replacement planting as recommended in McGee & Associates report.
- Seasonal planting schemes were installed on St. Andrews Median #1 and Doral Circle Median #23.
- Entryway plants should be replaced every four months to achieve a presentation which meets the Committee's expectations.

Mr. Yzaguirre recommended entryway plant schemes be approved several months prior to desired installation date(s) to ensure the plants species and colors selected by the Committee can be reserved.

VII. Project Manager's Report – Jeffrey Felger

Mr. Felger reported:

A. Budget Report

Lely Golf Estates MSTU Fund 1620 Budget for November 20, 2025, prepared November 13, 2025.
(*The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).*

Mr. Felger presented an overview of the budget highlighting:

Purchase Orders

1. A & M Property Maintenance (A&M)
   - Incidentals are for landscape refurbishment and miscellaneous.
   - Grounds Maintenance is for regularly scheduled tasks and irrigation repairs.
2. Agricultural Services International – Irrigation services
3. Collier County PUD – Water
4. FPL – Electricity
5. Howard Fertilizer & Chemical Co.- Fertilizer
6. McGee & Associates – Landscape Architecture
7. Naples Electric Motor Works – Pump station maintenance.
8. Premier Staffing – Transcription Services
9. Sight N Sound, dba Naples Christmas Lighting – Holiday Decorations
10. Simmonds Electrical – Electrical Maintenance and LED Fixtures
11. SiteOne Landscape Supply – Irrigation Parts & Pumps
12. Southeast Spreading - Mulch
13. Tree Scaping of Naples – Tree Pruning and Removal

Budget Summary

1. Line 1, Revenue – Millage assessed and Interest totals $457,200, an increase of $24,500 over FY 24.
2. Line 2, Carry Forward – Unexpended Prior Year (2025) Funds total 755,459.
3. Line 3, Revenue Total – A total of $1,212,659 (Millage Assessed and FY-25 Carry Forward).
4. Line 24, Operating Expense – Of the $370,659 budgeted, $243,303 is committed to existing Purchase Orders and $22,400 is expended, leaving the remainder of $104,956 available within budget for additional operating expenses as needed.
5. Line 28, County Overhead – Of the $81,400 budgeted, $873 has been transferred leaving a remainder of $80,526 for transfer (PTNE Staff & support, Property Appraiser & Tax Collector).
6. Line 30, Capital Projects – A balance of $610,600 remains for improvement projects.
7. Line 32, Capital Reserves - $150,00 is budgeted for insurance due to catastrophic events.
8. Line 33, All Expenses – Of the $1,212,659 budgeted, $243,303 remains committed to existing Purchase Orders and $23,273 has been Expended leaving $946,082vailable within budget for additional expenses as needed.

General

1. The Fiscal Year 2026 budget is effective October 1, 2025.
2. MSTU Tax Rate: 2.00 Mills is for beautification improvements and maintenance within the taxing district.
3. The Ad Valorem taxable value increased 5.42% for fiscal year 2025 over 2024 generating additional revenue of $24,500.

4. The Office of Budget Management assumes 5% of the millage assessed will be delinquent and factors the assumption into the budget.
5. The *Asset Management Plan* report to estimate useful life of MSTU assets and corresponding expenditure projections to fund maintenance will be updated during the 2027 planning process.
6. Tax millage collected and interest by the Lely Golf Estates Beautification MSTU may only be utilized by the MSTU and within the MSTU district boundary.

Mr. Felger noted:

- A Purchase Order has been requested for Contemporary Controls & Communications.
- Purchase Orders were issued for Howard Fertilizer and Southeast Spreading (mulch).
- Fertilizer will be applied in December in accordance with McGee & Associates schedule.
- Mulch will be installed at the beginning of January 2026.

B. Lighting Inspection Report

(*The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).*

November 6, 2025 Observation Report

- St. Andrews Boulevard: three single luminaires are out.
- All lamp poles are fitted with Lumec-brand LED replacements.

C. Radar Speed Report

Radar Speed Sign Report

Two Traffic Logix SafePace 100 speed monitoring signs are installed on Saint Andrews Boulevard, eastbound by the Lely Presbyterian Church (*Radar 1*) and westbound at Pine Valley Circle (*Radar 2*).

Vehicle Report Statistics

- Radar 1 (110 St Andrews Blvd) is not functioning as intended.
- Radar 2 (255 Saint Andrews Blvd):
    1. September 1,2025 to September 30, 2025: The report recorded 46,491 vehicles for an average of 1,549 per day. The maximum speed was 71 to 75 mph.
    2. October 1, 2025, to October 31, 2025: The report recorded 56,510 vehicles for an average of 1,822 per day. The maximum speed was 56 to 60 mph.
    3. The data indicated most vehicles were traveling between 26 and 35 mph. The speed limit is 25 mph.

Committee discussion

- The Radar 1 (110 St. Andrews Boulevard) unit should be replaced.
- Two speed monitoring signs should be installed on Forest Hills Boulevard between Augusta and Pebble Beach Boulevards (north and south).
- Time of day recording feature option should be researched.

***Mr. Felger** will Request a Quote from Traffic Logix for four SafePace 100 speed monitoring signs.*

D. Committee Application

Mr. Felger reported one seat for a four-year term is available on the Committee and an application was received from Bonnie R. Karen.

The Committee will consider the application at the December meeting.

VIII. Ongoing Business

Mr. Felger reported:

A. Holiday Lighting

1. St. Andrews Boulevard Entrance and Doral Circle

- Naples Christmas Lighting, a division of Sight N Sound, installed holiday decorations and coaxial lights at the Lely MSTU entrances on Saint Andrews Boulevard and Doral Circle in November 2025.

2. Forest Hills Boulevard and Augusta Boulevard

Ms. McGarity will decorate the monument at Forest Hills and Augusta Boulevards with a 24-inch holiday wreath, garland, and colored solar lights.

B. Irrigation

- The Road Maintenance Division utilizes the Motorola™ system for irrigation for all County roadways.
- Conversion of the MSTU's irrigation system from HydroPoint to Motorola™ will provide continuity with the County equipment.
- A quote was requested from a Contemporary Controls & Communications, Inc. for the purchase and installation of the Motorola™ controller(s).

C. Sign Easement Doral Circle

Ms. McGarity recommended a community sign be constructed in the easement area on the northwest corner of Doral Circle and Rattlesnake Hammock Road.

- Documents identifying a maintenance easement granted to Lely Golf Estates by Nassif Golf Ventures LLC. were distributed to Committee members at the MSTU meeting on April 17, 2025.
- The *Entrance Monument Maintenance Easemen*t, at the northwest corner of on Doral Circle and Rattlesnake Hammock Road, was recorded on November 5, 1999.
- The MSTU funded and installed pavers, benches, and landscape features (assets) around 2011.
- Mr. Mann presented a copy of the County recorded easement document and reported the sign originally installed in the area, as reported in a publication of the community newsletter, was removed by the MSTU in 1991.
- Documentation further indicated County/MSTU utilities are located within the designated easement.
- Hibiscus GC has requested the Lely Golf Estates MSTU release their rights to the easement.
- The MSTU wants to retain the easement.

Mr. Felger *will contact the County Attorney to ascertain the MSTU's right to use pertaining to the easement, seek guidance on structures and/or improvements which the MSTU can do in the area, and report his findings to the Committee at a future meeting.*

IX. New Business

Mr. Felger reported:

A. Perennial Peanut Plant Options

McGee & Associates recommended Perennial Peanut plants to be replaced with Bulbine plants.

B. Fertilization

A & M will apply fertilizer in accordance with McGee & Associates Schedule in December, 2025.

C. Light Outages

Simmond Electrical of Naples, Inc. provided a quote for Lumec LED driver replacement and installation of retrofit replacement fixtures on St. Andrews Boulevard.

D. Quotes

Mr. Felger presented the following quotes to the Committee for consideration:

A&M Property Maintenance, LLC

1. A & M Property Maintenance presented estimate #1720, dated November 19, 2025, in the amount of $9,074.75 to remove Perennial Peanut from St. Andrews Boulevard and Pebble Beach Medians, specified in the proposal, and Pebble Beach Crossing at the Baltusrol Sign, and install 563 orange Bulbine plants, 1-gallon size, and St. Agustine Floratam Sod, at a cost of $9,074.75.

   Ms. McGarity motioned to approve A&M Property Maintenance, LLC's proposal dated November 19, 2025, in the amount of $9,074.75, to remove Perennial Peanut Plants in medians on Saint Andrews and Pebble Beach Boulevards and Pebble Beach Crossing and install five hundred sixty-three orange Bulbine Plants and sod. Second by Mr. Mann. Carried unanimously 4 – 0.

2. A & M Property Maintenance submitted estimate #1721, dated November 19, 2025, in the amount of $1,500.00, to pressure wash pavers and sidewalk at the entrance to St. Andrews Boulevard and U.S. 41 and Doral Circle. Doral Circle power washing to include the sidewalk connecting to Rattlesnake Hammock Road. Corresponding valley gutters will be cleaned.

   Mr. Mann motioned to approve A&M Property Maintenance, LLC's proposal dated November 19, 2025, in the amount of $1,500.00 to pressure wash pavers and the sidewalk at the entrance to St. Andrews Boulevard *and* ***U.S. 41, and Doral Circle. Doral Circle power washing to include the sidewalk connecting to Rattlesnake Hammock Road. Corresponding valley gutters will be cleaned. Second by Ms. McGarity. Carried unanimously 4 – 0.***

Contemporary Controls & Communications, Inc.

Contemporary Control & Communications, Inc. submitted estimate No. 10728, dated October 23, 2025, in the amount of $20,115.70, to install Motorola™ irrigation controllers for the Lely MSTU.

Mr. McGee noted that, potentially, piccolo and controller conversion in some areas was not included in the proposal.

The Committee discussed the proposal and agreed to increase the approved amount $40,000.00 to provide funds for additional components if needed.

Mr. Mann motioned to approve Contemporary Controls & Communications, Inc.'s proposal No. 10728, dated October 23, 2025, for an amount not to exceed $40,000.00, for installation of irrigation equipment. Second by Ms. McGarity. Carried unanimously 4 – 0.

Tree Scaping of Naples, Inc.
Tree Scaping of Naples, Inc. submitted estimate No. 11430, dated October 21, 2025, in the amount of $17,351.00 to trim palm and hardwood trees.

Vice Chair Dammert motioned to approve Tree Scaping of Naples, Inc. quote # 11430, dated October 21, 2025, in the amount of $17,351.00, to trim palm and hardwood trees within the Lely MSTU. Second by Mr. Mann. Carried unanimously 4 – 0.

Simmonds Electrical of Naples, Inc.

1. Simmonds Electrical of Naples, Inc, submitted Quote #2517019R, dated October 22, 2025, in the amount of $4,219.16, to furnish and install three LED retrofit replacement fixtures on St. Andrews Boulevard.

   Ms. McGarity moved to approve Simmonds Electrical of Naples, Inc. proposal #2517019R, dated October 22, 2025, in the amount of $4,219.16 to furnish and install three LED retrofit replacement fixtures on streetlamps on St. Andrews Boulevard. Second by Vice Chair Dammert. Carried unanimously 4 – 0.

2. Simmonds Electrical of Naples, Inc, submitted Quote 201722, dated October 22, 2025, in the amount of $2,027.55, to furnish and install four LED drivers on light poles on St. Andrews Boulevard.

   Mr. Mann moved to approve Simmonds Electrical of Naples, Inc. proposal #201722, dated October 22, 2025, in the amount of $2,027.55, to furnish and install four LED Drivers on light poles on St. Andrews Boulevard. Second by Vice Chair Dammert. Carried unanimously 4 – 0.

X. Committee Member and Staff Comments

The Members noted the most important undertaking for the MSTU is the street and STOP sign project.

Mr. Felger is working with a sign supplier to obtain quotes for both restoration of existing signs and poles and new decorative poles with street signs. Signposts must conform to FDOT standards.

XI. Public Comments

Pat McCabe commented:

- Maintenance issues need to be addressed on Doral Circle Median #13.
  Mr. Felger will direct A&M to perform landscape maintenance on the Median.
- What is the plan for the Doral Circle entrance renovation?
  Renovation will be considered in 2026. The project will be debited from the Capital Projects category.
- Which Line item in the budget funds the Street and Traffic signage project?
  Expense incurred will be debited from the Capital Projects Category.
- Planned expenditures to *be* debited from the Capital Projects Category?
  The Asset Management Plan report to estimate useful life of MSTU assets and corresponding expenditure projections to fund maintenance will be updated during the 2027 planning process.

XII. Adjournment

There being no further business to come before the Committee, the meeting was adjourned at 3:25 P.M.

LELY GOLF ESTATES BEAUTIFICATION MSTU ADVISORY COMMITTEE

_____

Kathleen Dammert, Vice Chair

These Minutes were approved by the Committee on _____,2025 as presented ___ or as amended ___.

Lely Golf Estates Beautification MSTU/CollierPTNE

NEXT MEETING: **DECEMBER 18, 2025 – 2:00 PM**
SOUTH REGIONAL LIBRARY
8065 LELY CULTURAL PARKWAY
NAPLES, FL 34113
239.252.7542

McGee & Associates
Landscape Architecture

Project: LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Landscape Architect Observation Report:** December 2025
Location: MSTU DISTRICIT ROADWAYS
Project Manager: Dan Schumacher, Collier County Public Services Division, Public Transportation & Neighborhood Enhancements Department
Consultant: McGee & Associates **Consultant's Representative:** Michael A. McGee, rla, isa
Contractor: A & M Property Management **Contractor's Representative:** Armando Yzaguirre
Report Date: FY24-25, 12/4/2025 **Observation Date:** 12/4/2025 **Report No.** 2 (FY25-26)

AC - Indicates major or repeating items recommended to be discussed by the Advisory Committee
S - Indicates items to be addressed by staff. **C** - Indicates items to be addressed by Contractor
Contractor is requested to address items as soon as possible and indicate in **RESPONSE/COMMENTS** column when and which items are corrected.
Note: Copy picture out of comment boxes a*nd then paste to additional sheet if picture is desired in larger size.*

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
All locations		X	X	2	It is recommended that all herbicide spraying use a color tracer dye in the mix.	Yellow - Highlighting indicates maintenance recommendations. Red – Items if not addressed will result in multiple plant loss. Strikethrough - Indicates items that have been addressed or are being addressed.
		X	X	2	All planting areas need to be reviewed for mulch. Apply a 3-inch unsettled depth of mulch.	
St. Andrews Blvd. & US 41 Inbound R/W South	X	X			Directly adjacent to the east side of the sign monument there is an area between the sign wall and Pandanus tree that needs renovation plantings. Recommend removing three remaining Ixora shrubs, extend existing dwarf variegated Schefflera shrubs and fill in Blueberry Flax Lily plantings. Install: (6) Schefflera Arboricola ' Trinette' 3 gal. size, (10) Blueberry Flax lilies 3 gal. size	
		X	X		Alexander palm staking should be removed and the one palm that the foliage is still tied up needs to have the binding cut.	
		X	X		Just east of the shopping center driveway between the sidewalk and thew valley gutter there are a bed of dwarf Bougainvillea that have declined. It is recommended to remove all the bougainvillea and replant with the bed with pink Muhly grass. Install: (16) Pink Muhly grass 3 gal. size. Plant (7) plants between each of the spaces between the Alexander palms and (2) to the east of the easternmost Alexander palm.	
		X	X		Pandanous branches less than 10-feet over the sidewalk need to be trimmed off.	
		X	X	~~2~~	~~Prune Paurotis palm sprouts or lower stalks two-feet away from sidewalk edge.~~	
		X	X		~~Clean soil and fertilizer off sidewalk left from annual plantings.~~	
		X	X		~~Remove dead Paurotis palm fronds from within clumps.~~	
		X	X		~~Remove volunteer tree growing in the Variegated Ginger on the south end of the sign.~~	
		X	X		~~Clean up dead Screw pine foliage within planting beds. The MSTU is responsible for a 10 foot wide areas behind the back of the sidewalk per a license agreement to landscape, irrigate and maintain the area.~~	
		X	X	2	The Spider lily plants need to be cleaned up and treated for fungus. Also the torpedo grass growing in the plants needs to be treated as well.	
		X	X	2	On east side of shopping center driveway there are two dead Juniper parsonii plants that need to be removed and replaced.	**M&A 11/5/25:** (2) Juniper parsonii 3 gal. **M&A 12/4/25:** Remove dead wood out of Juniper plants until replacements occur.

LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Report Date:** FY24-25 12/4/2025 **Observation Date:** 12/4/2025 **Report :** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
		X	X	12	The 3rd large Royal palm from US 41 within the shopping center plantings that are under the control of the MSTU appears to have been hit by lightning. ~~Removal and~~ replacement is recommended. (1) Royal palm 8-foot of gray trunk.	
Outbound R/W North **Suncoast Credit Union side**		X	X		Review annual plantings for replacements, (6) Pentas and (3) Alyssum was observed dead or heavily declined. Replanting with larger size containers is recommended to match existing growth.	
		X			The banding around the main entry sign copy is peeling away and needs to be re-applied.	
		X	X		~~Clean soil and fertilizer off sidewalk left from annual plantings.~~	
		X	X	~~2~~	~~Prune Paurotis palm sprouts or lower stalks two-feet away from sidewalk edge.~~	
		X	X	~~3~~	~~Cleanup dead Paurotis palm fronds on the ground scattered around the sign and plantings.~~	
		X	X	3	Blueberry flax lilies have torpedo grass in them. It appears they may have been treated but no Torpedo grass appears to be in decline. Additional treatment should occur.	**M&A 12/4/25:** Additional spray treatments and hand remove is needed.
		X	X	8	At the shopping center entry ~~there is 33 l.f.+/- of perennial peanut between sidewalk and valley gutter that has torpedo grass in it. Recommended spraying areas for total kill and then replanting with two staggered rows of (65) perennial peanut 'Golden Glory', 1 gal. 12" o.c.~~	**M&A 6/5/25:** ~~(56) of the newly planted Perennial peanuts have been severely water stressed and appear dead. Replacement is recommended.~~ **M&A 9/3/25:** At this point due to the entrie loss of perennial peanut it is recommended to spray area to kill existing vegetation and then remove top 3-inch of vegetation & soil for St. Agustine 'Floratam' sod. Apporx. 300 s.f. of bed area.
St. Andrews Blvd.						
Median #1		X	X		There are (4) Lirope plants missing on the inbound side of the median. Install: (4) Liriope 'Evergreen Giant' 2 gal. size	
		X	X		(3) Penta were observed dead or heavily declined. Replanting with larger size containers is recommended to match existing growth.	
		X	X	2	Prune off the Crinum lily leaf spot fungus foliage and treat plants for fungus.	
Median #2		X	X	2	Remove volunteer Oyster plants in Bougainvillea shrubs.	
		X	X	2	Remove volunteer palm located on east end of median in Sabal palm group.	
		X	X		~~Review irrigation coverage in turf area on south side of median.~~	
Median #3		X	X		Perennial peanut beds on the east end of the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.	
		X	X		No major issues observed.	
		X	X	9	East median end: ~~Perennial peanut need additional fill in plants. (15) 1 gal. 'Golden Glory'~~	**M&A 6/5/25:** ~~If this location was one where newly planted replacement plants were installed then they need to be reviewed for replacements.~~ **M&A 9/3/25:** Due to the number of perennial peanut loss it is recommended to spray and kill remaining and then replant with

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
						Yellow Bulbine. (30) Yellow Bulbine 1 gal., 2 ft. off back of curb.
Median #4		**X**	**X**		Perennial peanut beds on the west end of the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.	
		X	**X**	9	East median end: ~~Perennial peanut need additional fill in plants. (20) 1 gal. 'Golden Glory'~~	**M&A 6/5/25:** ~~If this location was one where newly planted replacement plants were installed then they need to be reviewed for replacements.~~ **M&A 9/3/25:** Due to the number of perennial peanut loss it is recommended to spray and kill remaining and then replant with Yellow Bulbine. (35) Yellow Bulbine 1 gal., 2 ft. off back of curb.
Median #5		**X**	**X**		At address 140: ~~Holly tree is in heavy decline, and it is recommended to remove it.~~ Install (1) Lagerstroemia fauriei 'Muskogee' – Crape myrtle 30 gal., 2" cal, 8'-10' ht., 5'-6' spr., single trunk standard.	
		X	**X**	2	At address 152 (4) of the recently replanted Yellow African Iris need to be replaced under warranty. Planting area needs to be mulched	**M&A 11/5/25:** Iris plant dead or in heavy decline are now up to a total of (20). The Iris plant bed is dry and damage to the plant foliage appears to be from lack of water. It is also recommended that all raised sprinkler heads be lowered. Heads along back of curbing be 12-inch pop ups with heads set just above grade or soil. Heads in the center of the beds be lowered so that only the 12-inch pop up head is exposed above the grade/soil. If additional heads are needed or heads need to re-arranged, then that should occur so that proper coverage is accomplished.
		X	**X**	2	At address 164: (2) of the recently replanted Yellow African Iris need to be replaced under warranty. Planting area needs to be mulched	**M&A 11/5/25:** Iris plant dead or in heavy decline are now up to a total of (6). See irrigation comments for median #5 address 152 above.
		X	**X**	2	At address 240: (2) of the recently replanted Yellow African Iris need to be replaced under warranty. Planting area needs to be mulched	**M&A 11/5/25:** Iris plant dead or in heavy decline are now up to a total of (6). See irrigation comments for median #5 address 152 above.
Median #6		**X**	**X**	2	At address 232: (2) of the recently replanted Yellow African Iris need to be replaced under warranty. Planting area needs to be mulched	**M&A 11/5/25:** Iris plant dead or in heavy decline are now up to a total of (4). See irrigation comments for median #5 address 152 above.
Median #7		**X**	**X**		No major issues observed.	
Median #8		**X**	**X**	2	West end: (3) of the recently replanted Yellow African Iris need to be replaced under warranty. Planting area needs to be mulched	
	X	**X**	**X**	18	East end: Approximately (16) dwarf Bougainvillea are defoliated and half of them have heavy stem decline. Recommended considering renovation of this Bougainvillea planting area.	**M&A 3/7/24:** There are (8) missing or declined Bougainvillea 'Helen Johnson'. Replacement is recommended to occur in rainy season with 3 gal. size plants. **M&A 12/4/24**: Recommend removing declined Bougainvillea

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
						and mulch area until next rainy season due to no irrigation.
Median #8A		X	X		No major issues observed.	
Median #9		X			No major issues observed.	
Median #10		X	X		~~West end: Areas of weed removal in the perennial peanut has left open spots that need to be filled in.~~ ~~(20) Golden Glory Perennial peanut, 1 gal. size~~	**M&A 12/4/24:** Perennial peanut beds on both ends of the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
		X	X	16	At address 379: Bougainvillea 'Helen Johnson' are missing or declined and need replacements. Install (14) Bougainvillea 'Helen Johnson' 3 gal. size plants.	**M&A 5/1/24:** ~~At the request of the Committee a review was performed on St. Andrews Blvd. median #10 and the following was forwarded to the project manager. East half of median needs (22) dwarf Bougainvillea 3 gal. replacements; on the west half (15) dwarf Bougainvillea 3 gal. replacements; On the east end the existing perennial peanut plantings contains large number of weeds that has resulted in, after the weeds are addressed, (35-40) 1 gal. size Golden Glory perennial peanut replacements will be needed to fill the bed.~~ **M&A 9/3/25:** An alternate to peanut replacement would be to remove remaining peanut and install Bulbine (68) 1 gal. Orange Bulbine on 18" o.c., 2 ft. off curb.
Forest Hills Blvd						
Median #11		X	X		No major issues observed.	
		X	X		Perennial peanut beds on the west end of the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.	
Median #12		X	X		North end: Perennial peanut plants have declined to a point where removal and replanting with Bulbine is needed. (60) 1 gal. Orange Bulbine on 18" o.c., 2 ft. off curb.	**M&A 12/4/24:** Perennial peanut bed in the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
Forest Hills Cart Crossing & Lake		X	X		Existing bed of Bulbine has a large area of decline. Under or over watering maybe and issue or plants were walked upon during decoration install. Review weekly to confirm recovery or additional decline.	
Valley Stream Cr. Median #13		X	X	4	Two of the three Duckbill tree anchor cables have been cut or broke. Reinstall two new cables. When the new cables are installed hand, prune Bougainvillea away from the cables and maintain a one-foot clearance around all cables. ~~Also treat the tree to kill the Carpenter ants in the lower main trunk branch.~~	
		X	X	12	Plumbago shrubs appear to have died and need to be replaced. Install (5) 3 gal. size.	
	X	X		32	The south purple Trumpet tree rolled over during the storm. It was observed that the trunk had rotated out of the root ball and may have broken some main roots. Based upon what was observed while the tree was down it is recommended this tree be replaced because it may no ever re-root properly and become secure.	**M&A 05/04/23:** Handroanthus impetiginosis (Purple Trumpet tree) 11'-13' Ht., 3.5 Cal., 5'-6' Spr., 36" dia. B&B or 65 Gal. size container. **M&A 04/3/25:** Contractor can contact SGB Plants, Steven at 1-954-554-4484 for Purple Trumpet tree.

LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Report Date:** FY24-25 12/4/2025 **Observation Date:** 12/4/2025 **Report :** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
Pebble Beach Blvd.						
Median #14		**X**	**X**	4	South median end: Perennial peanut need additional fill in plants. (10) 1 gal. 'Golden Glory'	**M&A 09/3/25:** Spray to kill remaining perennial peanut. Install (50) yellow Bulbine 1 gal. size. First row to be two feet off back of curbing. **M&A 12/4/24:** Perennial peanut bed in the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
Median #15		**X**	**X**	4	South median end: Perennial peanut need additional fill in plants. (30) 1 gal. 'Golden Glory'	**M&A 09/3/25:** Spray to kill remaining perennial peanut. Install (50) yellow Bulbine 1 gal. size. First row to be two feet off back of curbing. **M&A 12/4/24:** Perennial peanut bed in the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
		X	**X**	4	North median end: Perennial peanut need additional fill in plants. (10) 1 gal. 'Golden Glory'	**M&A 09/3/25:** Spray to kill remaining perennial peanut. Install (50) yellow Bulbine 1 gal. size. First row to be two feet off back of curbing. **M&A 12/4/24:** Perennial peanut bed in the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
		X	**X**		Address 16 thru 24: Median had minor flooding with mulch washed outside of median.	
Median #16		**X**	**X**	4	South median end: The Perennial peanut bed is full of tornedo grass weeds. The only solution to remove the torpedo grass is to totally kill all plants in the bed and then replant at some date after it is confirmed torpedo grass is gone. ~~Replanting can occur with (62) 1 gal. size plants either Perennial peanut 'Golden Glory or Orange Bulbine.~~	**M&A 08/07/25:** Spray to kill remaining perennial peanut. Install (50) yellow Bulbine 1 gal. size. First row to be two feet off back of curbing.
		X	**X**		Address 24 thru 32: Median had minor flooding with mulch washed outside of median.	
Median #17		**X**	**X**	2	Address 116: Newly renovated plantings of African iris are and have been dry. The Iris plant bed is dry and damage to the plant foliage appears to be from lack of water. It is also recommended that all raised sprinkler heads be lowered. Heads along back of curbing be 12-inch pop ups with heads set just above grade or soil. Heads in the center of the beds be lowered so that only the 12-inch pop up head is exposed above the grade/soil. If additional heads are needed or heads need to re-arranged, then that should occur so that proper coverage is accomplished.	**M&A 12/4/24:** Remove dead foliage from around and within plants. (5) dead plants.
		X	**X**	2	Address 132: Newly renovated plantings of African iris are and have been dry. The Iris plant bed is dry and damage to the plant foliage appears to be from lack of water. It is also recommended that all raised sprinkler heads be lowered. Heads along back of curbing be 12-inch pop ups with heads set just above grade or soil. Heads in the center of the beds be lowered so that only the 12-inch pop up head is exposed above the grade/soil. If additional heads are needed or heads need to re-arranged, then that should occur so that proper coverage is accomplished.	**M&A 12/4/24:** Remove dead foliage from around and within plants.

LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Report Date:** FY24-25 12/4/2025 **Observation Date:** 12/4/2025 **Report :** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
		X	X	6	At address 140: Dwarf Bougainvillea dead or missing. Install (15) 3 gal. size Bougainvillea 'Helen Johnson' variety.	
		X	X	9	Address 108: Previous Holly tree replacement has died. Replacement should be under contractor warranty.	**M&A 08/07/25:** Install Lagerstroemia fauriei 'Muskogee' – Crape myrtle 30 gal., 2" cal, 8'-10' ht., 5'-6' spr. standard (single trunk)
	X	X	X	9	The north and south ends of median have large areas of declined and/or dead dwarf Bougainvillea, which renovation is recommended at this time. A meeting discussion with the committee is recommended.	
		X	X		Address 132 thru 148: Median had minor flooding with mulch washed outside of median.	
		X	X	14	It is recommended that all the Bougainvillea in this median be fertilized in July with 8-0-10 fertilizer at a rate of 4 ounces per shrub applied directly around the main stem of the shrubs.	
Median #18				6	South median end: At pervious auto accident at light pole. ~~replacement site the Perennial peanut need additional fill in plants. (40) 1 gal. 'Golden Glory'~~	**M&A 08/07/25:** Spray to kill remaining perennial peanut. Install (50) yellow Bulbine 1 gal. size. First row to be two feet off back of curbing. **M&A 12/4/24:** Perennial peanut beds in the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
		X	X		Address 151 thru 164: Median had minor flooding with mulch washed outside of median.	
		X	X	16	At address 156: (9) Bougainvillea 'Helen Johnson' are missing or declined and need replacements. Replacement is recommended to occur in rainy season. Install (9) Bougainvillea 'Helen Johnson'3 gal. size plants.	
Median #19		X	X		North End: Existing Bulbine plants have areas of dieback. Bulbine plants can develop issues from under and over watering. The existing planting on the north end of the median appears to have both types of issues. Review irrigation coverage. One spray head was observed missing its spray nozzle.	
		X	X	5	South median end: At pervious auto accident at light pole.	**M&A 08/07/25:** Spray to kill remaining perennial peanut. Install (60) yellow Bulbine 1 gal. size. First row to be two feet off back of curbing. **M&A 12/4/24:** Perennial peanut bed in the median have been sprayed to kill peanut plantings. It is recommended before the replacement plants are installed that the beds be raked clean of all existing mulch and dead plant debris.
		X			(5) L.F. of curbing was damaged by previous auto accident.	
Pebble Beach Blvd. Golf Cart Crossing		X	X		Recommend removing recently planted Foxtail palm staking.	
		X	X	2	Spray Spider lilies for fungus.	
		X	X	6	Southwest corner: (20) Spider lily plants 3 gal. size need to be replaced.	
Thorncrest Ln. cul-de-sac #20	X	X		2	Due to age and amount of decline it is recommended to renovate this cul-de-sac during this rainy season.	**M&A 09/08/22:** Renovation on hold, Remove dead plants. **M&A 08/07/25**: Install (15) dwarf Bougainvillea 'Helen Johnson'

LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Report Date:** FY24-25 12/4/2025 **Observation Date:** 12/4/2025 **Report :** 2 (FY25-26)

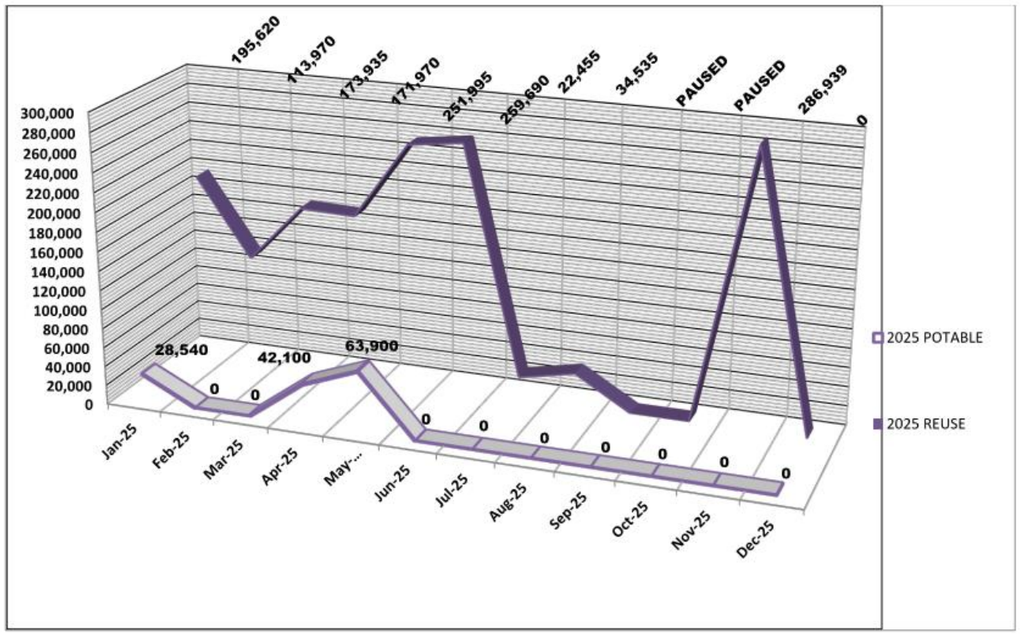
LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
						3 gal. size
Briarcliff Ln. Cu-de-sac #21	**X**	**X**		2	Due to age and amount decline it is recommended to renovate this cul-de-sac during this rainy season.	**M&A 08/07/25:** Install (16) dwarf Bougainvillea 'Helen Johnson' 3 gal. size
Heather Grove Ln. Cul-de-sac #22		**X**		2	(5) Bougainvillea plants on the eastern side have been run over and need to be reviewed for removal. Any replacements would need to wait until rainy season has started.	**M&A 08/07/25:** Install (6) dwarf Bougainvillea 'Helen Johnson' 3 gal. size
Baltusrol Signs		**X**	**X**		The outbound sign wall needs to have the Philodendron plant foliage pruned away from the sign monument so that the wall top can receive additional Sun exposure. **The wall top needs to be immediately cleaned to remove standing algae and/or mold.** The above-mentioned issues were the focus of a previous lawsuit that involved the County, the landscape contractor and ourselves.	
		X	**X**	3	Inbound side: removed perennial peanut area in front of sign needs to be replanted with Bulbine. Install (60) Bulbine 1 gal. size, match existing color.	
Doral Cr. East R/W		**X**	**X**	~~2~~	~~Treat Torpedo grass in Liriope plants at benches.~~	
West R/W & Rattlesnake Hammock Rd.		**X**	**X**	2	~~Irrigation head is broken along back of sidewalk.~~ It has created a washout and the piping is exposed.	
		X	**X**	2	The soil elevation along the edge of the sidewalk has washed away and needs to be replaced and the entire iris and Podocarpus beds need to be mulched.	
		X	**X**	2	Behind the podocarpus hedge adjacent property plants need to be pruned back to fence and debris removed.	
		X	**X**	6	All volunteer plants (e.g. snake plants, Mango trees) and others need to be removed from within or in front of Podocarpus hedge.	
		X	**X**	6	The western half of the Podocarpus hedge along the back of the sidewalk has not been mulched.	
		X	**X**	6	White African Iris plants are dead or missing and need to be replaced. (21) 3 gal. size plants	
Median #23		**X**	**X**		Review annual plantings for replacements, (2) Pentas were observed dead or heavily declined. Replanting with larger size containers is recommended to match existing growth.	
		X	**X**		~~Clean soil and fertilizer off curbing and pavement left from annual plantings.~~	
		X	**X**	2	Remove volunteer shrub and weeds from within northernmost Variegated Ginger plants	
				11	~~Two~~ ~~Three~~ Four Ixora 3 gal. shrubs have declined and need to be replaced. Based upon other plant growth if existing Ixora could be relocated that would be acceptable.	
		X	**X**	12	It is recommended (2) White Gieger trees be planted at variegated ginger locations to create shade for ginger. Cordia boissieri White Geiger, ≥ 7' ht., 3" cal., > 4' spr., 32" B&B or 45 Gal. Single leader trunk.	**M&A 4/3/25:** Recommend changing tree type to dwarf white Tabebuia, Tabebuia bahamensis, ≥ 7' ht., 3" cal., > 4' spr., 32" B&B or 45 Gal. Single leader trunk. Contractor can contact Becker Tree Farms at 772-546-3541 or Vida Verde Farms 19901 SW 232 Street, Miami, Fl 33170 **M&A 7/3/25**: Recommend planting the white Gieger trees even if the size must be reduced.

McGee & Associates
Landscape Architecture

LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Report Date:** FY24-25 12/4/2025 **Observation Date:** 12/4/2025 **Report :** 2 (FY25-26)

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
		X	X	15	Recommended replacement Tree for Golden Trumpet Tree in median #23, Bulnesia arborea 'Verawood Tree', 11'–13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal. Single leader trunk.	
Median #24 Treasure Point Cul-de-sac		X	X	6	Remove volunteer Strangler fig vines from within Sabal palm trunks.	
Warren St. Pumping Station		X	X	2	Water use tracking was paused and will occur in next month's report. Please edge around and blow clean reuse meter box, potable water box and all valve boxes.	**M&A 12/4/24:** Water use tracking for November indicates 286,939 gallons of reuse water was used.
		X	X	2	The reuse water supply float valve into the mixing chamber is leaking due to a missing piece on the valve. Recommend fixing as soon as possible.	
Valley Stream Cr. Irrigation					Cannot read water meter numbers due to lens clouding	
Fertilization		X	X		Please confirm at next Committee meeting 11/20/25 fertilizations occurred.	

Lely Golf Estates Beautification MSTU Reuse Mixing Chamber Annual Water Use for 11/25



Notes: 2023 Total Water Use: Reuse 1,846,930 gallons, Potable 188,030 gallons
2024 Total Water Use: reuse 1,378,290 gallons, Potable 24,720.10 gallons

12/4/2025

Warren Street Mixing Chamber Water Use Data: 11/2025						
DATE	REUSE PSI	POTABLE WATER METER (X 100)	POTABLE WATER USE GALLONS	REUSE WATER METER READING (X x 100)	REUSE WATER USE GALLONS	TOTAL WATER APPLIED
11/5/2025	80	191,500.80		88,237.01		-
12/4/2025	80	191,500.80	-	91,106.40	286,939.00	286,939.00
						-
		TOTALS:	**0.00**		**286,939.00**	**286,939.00**
PERCENTAGE OF TOTAL VOLUME USED			**0.0%**		**100.0%**	

LELY GOLF ESTATES M.S.T.U.
Fund 1620
December 18, 2025

	FY-26	Vendor	Item	PO#	Budget	Commitments	Expenditures	Available
1	MILLAGE COLLECTED & INTEREST		MSTU Revenues		$ (457,200.00)	$ -	$ (317,166.63)	$ (140,033.37)
2	CARRY FORWARD		Unexpended Prior Year Funds		$ (755,459.65)	$ -	$ -	$ (755,459.65)
3	**ALL REVENUES**				**$ (1,212,659.65)**	**$ -**	**$ (317,166.63)**	**$ (895,493.02)**
		McGee & Associates	Landscape Architect (FY-25)	4500234203		$ 9,213.95	$ -	
4	ENG. FEES & OTHERS				$ 25,000.00	$ 9,213.95	$ -	$ 15,786.05
5	INDIRECT COST REIMBURSE	Collier County	Indirect Cost	Direct Pay	$ 6,400.00	$ 3,200.00	$ 3,200.00	$ -
		A&M Property Maint	Landscape Incidentals	4500234775	$ 45,000.00	$ 38,730.00	$ 6,270.00	$ -
6	LANDSCAPE INCIDENTALS (634990)				$ 45,000.00	$ 38,730.00	$ 6,270.00	$ -
7	OTHER CONTRACTUAL (634999)	A&M Property Maint	Grounds Maintenance		$ 142,700.00	$ 89,601.00	$ 10,399.00	$ 42,700.00
8	OTHER CONTRACTUAL (639990)	Tree Scaping	Tree & Palm - Pruning	4500241338	$ 47,700.00	$ 15,000.00	$ -	$ 32,700.00
9	ELECTRICITY	FPL	Electricity	4700005320	$ 5,200.00	$ 4,300.99	$ 1,029.01	$ (130.00)
10	WATER AND SEWER	Collier County Public Utilities	Water - Irrigation	4700005160	$ 10,000.00	$ 11,035.02	$ 1,064.98	$ (2,100.00)
11	INSURANCE GENERAL	Collier County	Insurance	Direct Pay	$ 800.00	$ 800.00	$ -	$ -
		Naples Electric Motor Works	Pump Station Service	4500242840	$ -	$ 4,250.00	$ -	$ -
		SiteOne	Irrigation Parts & Pumps	4500242319	$ -	$ 7,281.95	$ 1,718.05	$ 9,000.00
		Agricultural Services International	Warran Street Pump Station	4500241210	$ -	$ 5,000.00	$ -	$ 5,000.00
		Agricultural Services International	Warran Street Pump Station	4500238658	$ -	$ 3,859.65	$ -	$ 3,859.65
12	SPRINKLER SYSTEM				$ 8,859.65	$ 20,391.60	$ 1,718.05	$ (13,250.00)
13	MULCH	Southeast Spreading	Mulch		$ 10,000.00	$ 17,400.00	$ -	$ (7,400.00)
14	LIGHTING MAINTENANCE	Simmonds Electrical	Electrical Services	4500241141	$ 35,000.00	$ 9,944.71	$ 10,055.29	$ 15,000.00
15	LICENSE & PERMITS				$ 2,000.00	$ -	$ -	$ 2,000.00
16	BUILDING RM							
		Naples Christmas Lighting	Holiday Decorations	4500242576	$ 4,600.00	$ 5,600.00	$ -	$ (1,000.00)
		Premier Staffing	Transcription	4500242473	$ -	$ 6,600.00	$ -	$ (6,600.00)
17	OTHER MISCELLANEOUS (649990)				$ 13,000.00	$ 12,200.00	$ -	$ 800.00
18	OFFICE SUPPLIES				$ 100.00	$ -	$ -	$ 100.00
19	COPYING CHARGES	J.M. Todd	Copier CPC	4500241387	$ 200.00	$ 133.59	$ 16.41	$ 50.00
20	FERT HERB CHEM	Howard Fertilizer	Fertilizer		$ 3,500.00	$ -	$ -	$ 3,500.00
21	COMPUTER SOFTWARE				$ -	$ -	$ -	$ -
22	OTHER OPERATING				$ 200.00	$ -	$ -	$ 200.00
23	TRAFFIC SIGNS				$ 15,000.00	$ -	$ -	$ 15,000.00
24	**OPERATING EXPENSES**				**$ 370,659.65**	**$ 231,950.86**	**$ 33,752.74**	**$ 104,956.05**
25	PTNE STAFF & DIVISION OVERHEAD				$ 68,100.00	$ -	$ -	$ 68,100.00
26	PROPERTY APPRAISER				$ 3,400.00	$ -	$ 838.47	$ 2,561.53
27	TAX COLLECTOR				$ 9,900.00	$ -	$ 7,297.01	$ 2,602.99
28	**COUNTY OVERHEAD**				**$ 81,400.00**	**$ -**	**$ 8,135.48**	**$ 73,264.52**
29	IMPROVEMENTS GENERAL				$ 610,600.00	$ -	$ -	$ 610,600.00
30	**CAPITAL PROJECTS**				**$ 610,600.00**	**$ -**	**$ -**	**$ 610,600.00**
31	RESERVES FOR INSURANCE				$ 150,000.00	$ -	$ -	$ 150,000.00
32	**CAPITAL RESERVES**				**$ 150,000.00**	**$ -**	**$ -**	**$ 150,000.00**
33	**ALL EXPENSES**				**$ 1,212,659.65**	**$ 231,950.86**	**$ 41,888.22**	**$ 938,820.57**
34	**FY-26 BUDGET GRAND TOTAL**		= ALL REVENUES - ALL EXPENSES		**$ -**	**$ 231,950.86**	**$ (275,278.41)**	**$ 43,327.55**

92,697,303	FY 13 Final Taxable Value	-3.3%
95,718,423	FY 14 Final Taxable Value	3.3%
99,596,489	FY 15 Final Taxable Value	4.1%
106,888,467	FY 16 Final Taxable Value	7.3%
116,823,687	FY 17 Final Taxable Value	9.3%
127,802,080	FY 18 Final Taxable Value	9.4%

Total Available Balance	**$ 938,820.57**
Plus Commited And Not Spent	**$ 231,950.86**
Estimated Cash	**$ 1,170,771.43**

LELY GOLF ESTATES M.S.T.U.
Fund 1620
December 18, 2025

135,136,761	FY 19 Final Taxable Value	5.7%			*Prepared 12/12/25 MV*
142,494,654	FY 20 Final Taxable Value	5.4%			
152,194,183	FY 21 Final Taxable Value	6.8%			
156,289,928	FY 22 Final Taxable Value	2.7%			
180,384,272	FY 23 Final Taxable Value	##########	+6.3% Average		
203,796,660	FY 24 Final Taxable Value	##########			
$214,844,295	**FY 25 Gross Taxable Value**				
5.42%	**Adjustment FY 24 to FY 25**				
	FY 25 Gross MSTU Revenue	FY 24			
Millage	**2.0000**	2.0000	**2.0 mill cap**		
Tax Dollars	**$429,688.59**	$407,600	**$68,920**	**Increase**	

LELY MSTU LIGHTING INSPECTION			Inspection Date:	12/3/2025		
ST. ANDREWS ENTRANCE - FROM US-41						
TUBE		**A**	**B**	**C**	**D**	**E**
Sign - Enter	**1**					
Sign - Exit	**2**					
SPOT		**O**	**A**	**B**	**Notes**	
Flagpole - US	**1**					
Flagpole - FL	**2**				▪ Current outages are sequenced in **RED**.	
Flagpole - BCC	**3**					
LUMINAIRE		**O**	**A**	**B**		
Single	**1**					
Single	**2**				▪ Outages repaired in the past month are sequenced in **GRAY**.	
Single	**3**	O				
Single	**4**					
Single	**5**					
Single	**6**					
Single	**7**					
Single	**8**	O				
Single	**9**					
Single	**10**	O				
Single	**11**					
PEBBLE BEACH BLVD						
LUMINAIRE		**O**	**A**	**B**		
Double	**1**					
Double	**2**					
Double	**3**					
Double	**4**					
Double	**5**					
Double	**6**					
Double	**7**					
Double	**8**					
Double	**9**					
Double	**10**					
Double	**11**					
Double	**12**					
Double	**13**					
Double	**14**					
Double	**15**					
Double	**16**					
Double	**17**					
Double	**18**					
Double	**19**					
Double	**20**					
Double	**21**					
Single	**22**					
Single	**23**					1909

LELY MSTU LIGHTING INSPECTION			***12/3/2025***	
FOREST HILLS @ AUGUSTA				
'*LELY*' SIGN		**O**	**A**	**B**
Solar Light	**--**			
DORAL CIRCLE				
TUBES		**O**	**A**	**B**
Sign - Enter	**1**			
Sign - Exit	**2**			
LUMINAIRE		**O**	**A**	**B**
Double	**1**			
Double	**2**			
Single	**3**			
Single	**4**			
Single	**5**			
Single	**6**			

1909

Count by Speed Range Report

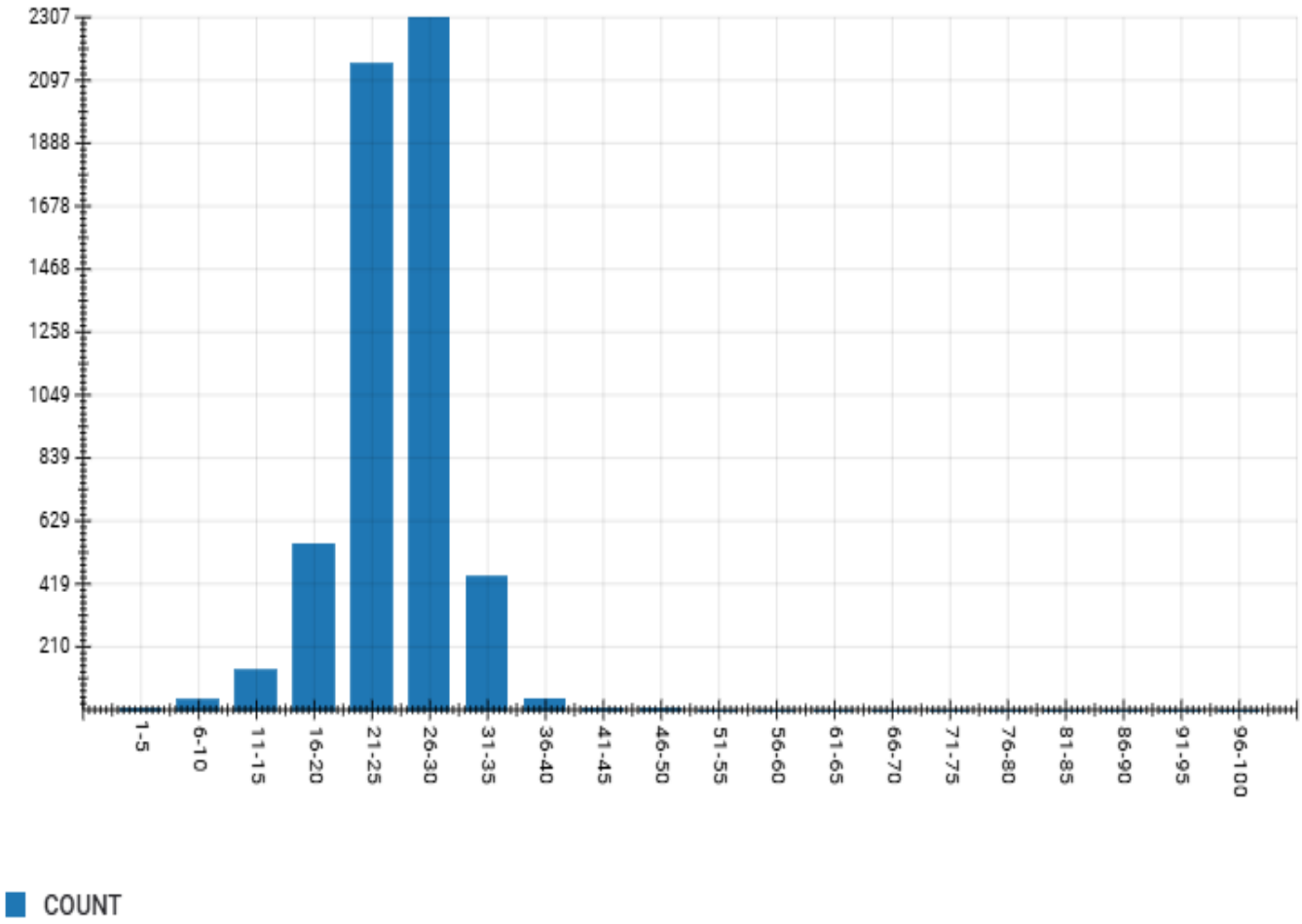
Location: Radar 1 - SAB NB

Address: 110 Saint Andrews Blvd

Report period: 2025-11-01 to 2025-11-30

Count By Speed Range

Speed (mph)	Count
1-5	1
6-10	31
11-15	131
16-20	551
21-25	2149
26-30	2307
31-35	441
36-40	37
41-45	3
46-50	1
51-55	0
56-60	0
61-65	0
66-70	0
71-75	0
76-80	0
81-85	0
86-90	0
91-95	0
96-100	0
Total	5652



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Count by Speed Range Report

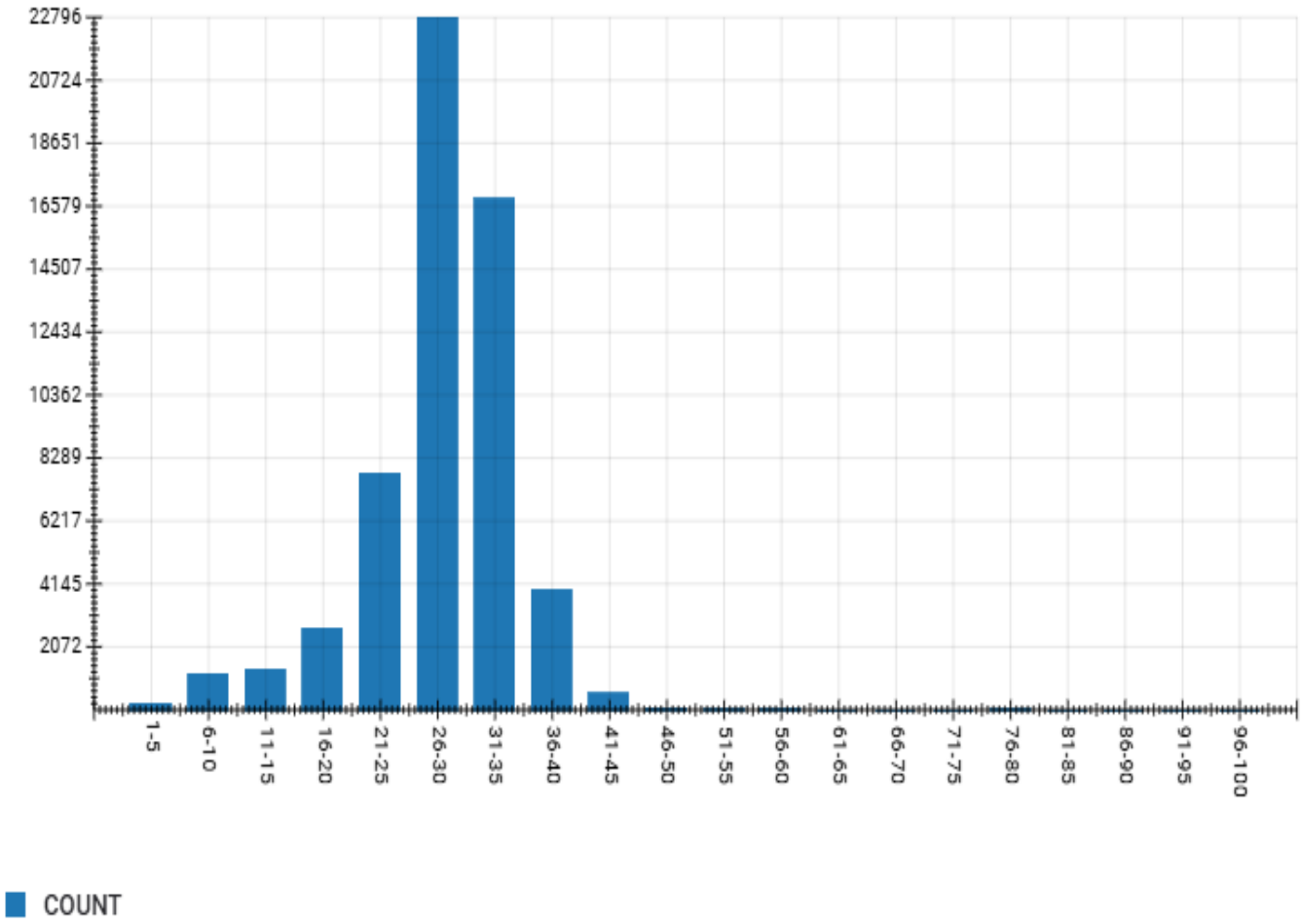
Location: Radar 2 - SAB SB

Address: 255 Saint Andrews Blvd

Report period: 2025-11-01 to 2025-11-30

Count By Speed Range

Speed (mph)	Count
1-5	208
6-10	1185
11-15	1326
16-20	2696
21-25	7775
26-30	22796
31-35	16826
36-40	3971
41-45	562
46-50	61
51-55	15
56-60	3
61-65	0
66-70	0
71-75	0
76-80	2
81-85	0
86-90	0
91-95	0
96-100	0
Total	57426



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A&M Property Maintenance, LLC
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AVE MARIA, FL 34142 US
+12395030303
aandmtotal@yahoo.com

Estimate

ADDRESS
CCBOCC
3299 Tamiami Trail E
Suite 700
Naples, FL 34112-5749 USA

SHIP TO
CCBOCC
Lely Golf Estates MSTU
8300 Radio Road
Naples, FL 34104 USA

ESTIMATE # 1647
DATE 12/10/2025

P.O. NUMBER
4500241744

ACTIVITY	QTY	RATE	AMOUNT
DORAL CR Median #23: 1,Verawood tree			
Material Cost: Bulnesia arborea 'Verawood Tree', 11'-13' ht, 3.5" cal, 5'-6' spr., 36" B&B or 45 gal single leader trunk	1	725.00	725.00
Material Mark-Up @ 15%	725	0.15	108.75
(40) Supervisor (per staff hour) 1 man, 2 hours	2	75.00	150.00
(41) Laborer | Helper (per staff hour) 1 men, 2 hours	2	75.00	150.00

TOTAL **$1,133.75**

Accepted By

Accepted Date

We appreciate your business

A&M Property Maintenance, LLC
4396 OWENS WAY
AVE MARIA, FL 34142 US
+12395030303
aandmtotal@yahoo.com

Estimate

ADDRESS
CCBOCC
3299 Tamiami Trail E
Suite 700
Naples, FL 34112-5749 USA

SHIP TO
CCBOCC
Lely Golf Estates MSTU
8300 Radio Road
Naples, FL 34104 USA

ESTIMATE # 1727
DATE 12/10/2025

P.O. NUMBER
4500241744

ACTIVITY	QTY	RATE	AMOUNT
ST ANDREWS Median #5 @ Address 140: 1-Muskogee Crape Myrtle			
Material Cost: Lagerstroemia fauriei 'Muskogee'- Crape Myrtle 30 gal., 2" cal, 8'-10' ht., 5'-6' spr., single trunk standard	1	381.00	381.00
Material Mark-Up @ 15%	381	0.15	57.15
(40) Supervisor (per staff hour) 1 man, hours	1	75.00	75.00
(41) Laborer | Helper (per staff hour) 1 men, hours	1	75.00	75.00

TOTAL **$588.15**

Accepted By

Accepted Date

We appreciate your business

A&M Property Maintenance, LLC
4396 OWENS WAY
AVE MARIA, FL 34142 US
+12395030303
aandmtotal@yahoo.com

Estimate

ADDRESS
CCBOCC
3299 Tamiami Trail E
Suite 700
Naples, FL 34112-5749 USA

SHIP TO
CCBOCC
Lely Golf Estates MSTU
8300 Radio Road
Naples, FL 34104 USA

ESTIMATE # 1728
DATE 12/10/2025

P.O. NUMBER
4500241744

ACTIVITY	QTY	RATE	AMOUNT
DORAL CR EAST R/W Median #23- 2-White Gieger			
Material Cost: Cordia White Gieger, > 7’ ht., 3” cal., > 4’ spr., 32” B&B or 45 gallon single leder trunk	1	850.00	850.00
Material Mark-Up @ 15%	850	0.15	127.50
(40) Supervisor (per staff hour) 1 man, hours	2	75.00	150.00
(41) Laborer | Helper (per staff hour) 1 men, hours	2	75.00	150.00

TOTAL **$1,277.50**

Accepted By

Accepted Date

We appreciate your business

Traffic Logix Corporation
3 Harriett Lane
Spring Valley, NY 10977 USA
Tel: (866) 915-6449
Fax: (844) 405-6449
www.trafficlogix.com

Quote Number QUO-51367-C7Y0N3
Created Date 11/21/2025
Expiration Date 01/22/2026
Prepared by Nino Martinez

QUOTATION

Contact: Brett Genzale **Collier County Board of County**
Phone: 239-252-9407
Email: Brett.Genzale@colliercountyfl.gov

Shipping Address:
Attn: Accounts Payable
3299 Tamiami Trail East Suite 700
Naples, Florida 34112-5749
United States

Standard Features (Included) – Evolution Signs

- The Evolution radar feedback signs come with 1 year* of unlimited SafePace Cloud access. SafePace Cloud is renewable annually with bundling and multi-year term discounts available.
- Sign powers down when no traffic present
- Programmable Speed Violator Flashing Strobe Light
- Ambient Light Sensor and Automatic Brightness adjustment
- Banding Mount Bracket
- Bluetooth

** The 12-month trial period for SafePace Cloud begins upon shipment of the product(s) and is reserved for new Traffic Logix customers or for Traffic Logix customers who are renewing the Cloud service.*

Special Notes

- 4x EV12 radar signs powered by solar with battery back up.
- **Pricing through Sourcewell. Traffic Logix I.D# 042225-LGX**. **Collier County I.D# 29289**

Quote Line Items – All Prices shown are in $ US Dollar

Product	Product Code	Quantity	Sales Price	Total Price
Web Director "GSM/GPS Combo"- Global	SPGSMGPS-4G	4.00000	$0.00	$0.00
First Year Cloud Access-Radar Signs-LVL1-1Y	WD-RFS-L1-1Y	4.00000	$0.00	$0.00
Evolution 12 English White with Solar Power	EV12EWL-SOL	4.00000	$2,786.00	$11,144.00

Totals

Subtotal:	$11,144.00
Freight:	$450.00

Traffic Logix Corporation
3 Harriett Lane
Spring Valley, NY 10977 USA
Tel: (866) 915-6449
Fax: (844) 405-6449
www.trafficlogix.com

Quote Number QUO-51367-C7Y0N3
Created Date 11/21/2025
Expiration Date 01/22/2026
Prepared by Nino Martinez

Sales Tax (if applicable):	$695.64
Grand Total:	**$12,289.64**

Delivery Requirements

Please Indicate the availability of the following as this determines the freight costs:

1. Do You have a Loading Dock? - Yes/No
2. Do you have a Fork Lift and Pallet Jack to unload? - Yes/No
3. Can access be gained by a 53 foot truck for delivery? - Yes/No
4. Is the delivery address a Construction site? - Yes/No
5. Is the delivery address a Military site? - Yes/No
6. If shipping to Military site, is a U.S. Driver required? - Yes/No

Quote Acceptance Information

Signature _____

Name _____

Title _____

Date _____

Thank you for choosing Traffic Logix. Please sign and return to:

nmartinez@trafficlogix.com
Nino Martinez
Sales Director, US

Please complete to set up new account: https://trafficlogix.com/business-application-form/

GOLF ESTATES BEAUTIFICATION MSTU

ADVISORY COMMITTEE

8300 Radio Road
Naples, FL 34104

Minutes

NOVEMBER 20, 2025

I. Call to Order

The meeting was called to order at 2:04 P.M. Roll call was taken, and a quorum of three were established.

II. Attendance

Committee Members: Kathleen Dammert, Vice Chair; Michael Mann, Lisa McGarity, Dimitra Arneson; Open Seat
County Staff: Ellen Sheffey, Interim Director, PTNE (Excused); Jeffrey Felger, Project Manager, PTNE; Rosio Garcia, Operations Analyst, PTNE; Keyla Castro, Operations Support Specialist, PTNE (ZOOM)
Contractors: Armando Yzaguirre, A & M Property Maintenance; Wendy Warren, Premier Staffing
Guests: Pat McCabe, Resident

III. Approval of Agenda

Ms. McGarity moved to approve the Agenda of the Lely Golf Estates Beautification MSTU Advisory Committee as amended:
Add: Item VIII-C: Sign Easement Doral Circle.
Second by Vice Chair Dammert. Carried unanimously 4 - 0.

IV. Approval of Minutes – October 16, 2025

Vice Chair Dammert moved to approve the Lely Golf Estates Beautification MSTU Advisory Committee meeting minutes of the October 16, 2025, as presented. Second by Mr. Mann. Carried unanimously 4 - 0.

V. Chair's Report

Summary reports will commence pending the election of a Committee Chairperson.

VI. Contractor Reports

A. Landscape Architect's Report – McGee & Associates (M&A)

Mr. McGee summarized the November 6, 2025, observation report.
(The full reports included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

Maintenance Areas

1. St. Andrews Blvd.
2. Forest Hills Blvd. & Cart Crossing
3. Valley Stream Circle
4. Pebble Beach Blvd. & Cart Crossing
5. Thorncrest, Briarcliff, and Heather Grove Lanes (cul-de-sacs)
6. Baltusrol Drive & Cart Crossing

7. Doral Circle
8. Rattlesnake Hammock Rd.

Mr. McGee reported:

All Locations

Areas highlighted in yellow indicate replacements are needed.
Herbicide Spray with color tracer dye in the mix is recommended.
Review pruning areas for mulch.
Remove volunteer plants in beds.
African Iris plants are exhibiting brown foliage, review irrigation coverage.

St. Andrews Blvd.

- Median #8: Recommend renovation of Bougainvillea planting area.
- Replace Yellow African Iris under warranty and mulch area.

Valley Stream Circle

- Median #13:
  - Reinstall Duck Bill cables and treat tree for Carpenter ants.
  - Recommend replacement of Plumbago shrubs.

Doral Circle

- East ROW: Treat Torpedo grass in Liriope plants at benches.
- West ROW & Rattlesnake Hammock Road
  - The soil elevation along the edge of the sidewalk washed away and needs to be replaced.
  - The Iris and Podocarpus beds need to be mulched.
  - Behind the Podocarpus hedge adjacent property plants need to be pruned back to fence and debris removed.
  - Remove volunteer plants from the Ficus hedge.
- Median#23:
  - Remove volunteer shrubs and weeds from Variegated Ginger plants.

Comments

Mr. Felger will be in contact with the Road Maintenance Division for an update on sidewalk repairs/replacement.

B. Landscape Maintenance Report – A & M Property Maintenance (A&M)

Mr. Yzaguirre reported:

- Routine maintenance is being performed as scheduled.
- The proposal for tree replacements was not approved. The quote will be resubmitted and trees planted upon completion of the irrigation system conversion.
- Quotes will be updated for replacement planting as recommended in McGee & Associates report.
- Seasonal planting schemes were installed on St. Andrews Median #1 and Doral Circle Median #23.
- Entryway plants should be replaced every four months to achieve a presentation which meets the Committee's expectations.

Mr. Yzaguirre recommended entryway plant schemes be approved several months prior to desired installation date(s) to ensure the plants species and colors selected by the Committee can be reserved.

VII. Project Manager's Report – Jeffrey Felger

Mr. Felger reported:

A. Budget Report

Lely Golf Estates MSTU Fund 1620 Budget for November 20, 2025, prepared November 13, 2025.
(The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

Mr. Felger presented an overview of the budget highlighting:

Purchase Orders

1. A & M Property Maintenance (A&M)
   - Incidentals are for landscape refurbishment and miscellaneous.
   - Grounds Maintenance is for regularly scheduled tasks and irrigation repairs.
2. Agricultural Services International – Irrigation services
3. Collier County PUD – Water
4. FPL – Electricity
5. Howard Fertilizer & Chemical Co.- Fertilizer
6. McGee & Associates – Landscape Architecture
7. Naples Electric Motor Works – Pump station maintenance.
8. Premier Staffing – Transcription Services
9. Sight N Sound, dba Naples Christmas Lighting – Holiday Decorations
10. Simmonds Electrical – Electrical Maintenance and LED Fixtures
11. SiteOne Landscape Supply – Irrigation Parts & Pumps
12. Southeast Spreading - Mulch
13. Tree Scaping of Naples – Tree Pruning and Removal

Budget Summary

1. Line 1, Revenue – Millage assessed and Interest totals $457,200, an increase of $24,500 over FY 24.
2. Line 2, Carry Forward – Unexpended Prior Year (2025) Funds total 755,459.
3. Line 3, Revenue Total – A total of $1,212,659 (Millage Assessed and FY-25 Carry Forward).
4. Line 24, Operating Expense – Of the $370,659 budgeted, $243,303 is committed to existing Purchase Orders and $22,400 is expended, leaving the remainder of $104,956 available within budget for additional operating expenses as needed.
5. Line 28, County Overhead – Of the $81,400 budgeted, $873 has been transferred leaving a remainder of $80,526 for transfer (PTNE Staff & support, Property Appraiser & Tax Collector).
6. Line 30, Capital Projects – A balance of $610,600 remains for improvement projects.
7. Line 32, Capital Reserves - $150,00 is budgeted for insurance due to catastrophic events.
8. Line 33, All Expenses – Of the $1,212,659 budgeted, $243,303 remains committed to existing Purchase Orders and $23,273 has been Expended leaving $946,082vailable within budget for additional expenses as needed.

General

1. The Fiscal Year 2026 budget is effective October 1, 2025.
2. MSTU Tax Rate: 2.00 Mills is for beautification improvements and maintenance within the taxing district.
3. The Ad Valorem taxable value increased 5.42% for fiscal year 2025 over 2024 generating additional revenue of $24,500.

4. The Office of Budget Management assumes 5% of the millage assessed will be delinquent and factors the assumption into the budget.
5. The *Asset Management Plan* report to estimate useful life of MSTU assets and corresponding expenditure projections to fund maintenance will be updated during the 2027 planning process.
6. Tax millage collected and interest by the Lely Golf Estates Beautification MSTU may only be utilized by the MSTU and within the MSTU district boundary.

Mr. Felger noted:

- A Purchase Order has been requested for Contemporary Controls & Communications.
- Purchase Orders were issued for Howard Fertilizer and Southeast Spreading (mulch).
- Fertilizer will be applied in December in accordance with McGee & Associates schedule.
- Mulch will be installed at the beginning of January 2026.

B. Lighting Inspection Report

(The full report is included in the distributed Agenda meeting packet, which is accessible at the link shown at the end of these Minutes).

November 6, 2025 Observation Report

- St. Andrews Boulevard: three single luminaires are out.
- All lamp poles are fitted with Lumec-brand LED replacements.

C. Radar Speed Report

Radar Speed Sign Report

Two Traffic Logix SafePace 100 speed monitoring signs are installed on Saint Andrews Boulevard, eastbound by the Lely Presbyterian Church (*Radar 1*) and westbound at Pine Valley Circle (*Radar 2*).

Vehicle Report Statistics

- Radar 1 (110 St Andrews Blvd) is not functioning as intended.
- Radar 2 (255 Saint Andrews Blvd):
    1. September 1,2025 to September 30, 2025: The report recorded 46,491 vehicles for an average of 1,549 per day. The maximum speed was 71 to 75 mph.
    2. October 1, 2025, to October 31, 2025: The report recorded 56,510 vehicles for an average of 1,822 per day. The maximum speed was 56 to 60 mph.
    3. The data indicated most vehicles were traveling between 26 and 35 mph. The speed limit is 25 mph.

Committee discussion

- The Radar 1 (110 St. Andrews Boulevard) unit should be replaced.
- Two speed monitoring signs should be installed on Forest Hills Boulevard between Augusta and Pebble Beach Boulevards (north and south).
- Time of day recording feature option should be researched.

***Mr. Felger** will Request a Quote from Traffic Logix for four SafePace 100 speed monitoring signs.*

D. Committee Application

Mr. Felger reported one seat for a four-year term is available on the Committee and an application was received from Bonnie R. Karen.

The Committee will consider the application at the December meeting.

VIII. Ongoing Business

Mr. Felger reported:

A. Holiday Lighting

1. St. Andrews Boulevard Entrance and Doral Circle
   - Naples Christmas Lighting, a division of Sight N Sound, installed holiday decorations and coaxial lights at the Lely MSTU entrances on Saint Andrews Boulevard and Doral Circle in November 2025.

2. Forest Hills Boulevard and Augusta Boulevard

   Ms. McGarity will decorate the monument at Forest Hills and Augusta Boulevards with a 24-inch holiday wreath, garland, and colored solar lights.

B. Irrigation

- The Road Maintenance Division utilizes the Motorola™ system for irrigation for all County roadways.
- Conversion of the MSTU's irrigation system from HydroPoint to Motorola™ will provide continuity with the County equipment.
- A quote was requested from a Contemporary Controls & Communications, Inc. for the purchase and installation of the Motorola™ controller(s).

C. Sign Easement Doral Circle

Ms. McGarity recommended a community sign be constructed in the easement area on the northwest corner of Doral Circle and Rattlesnake Hammock Road.

- Documents identifying a maintenance easement granted to Lely Golf Estates by Nassif Golf Ventures LLC. were distributed to Committee members at the MSTU meeting on April 17, 2025.
- The *Entrance Monument Maintenance Easement*, at the northwest corner of on Doral Circle and Rattlesnake Hammock Road, was recorded on November 5, 1999.
- The MSTU funded and installed pavers, benches, and landscape features (assets) around 2011.
- Mr. Mann presented a copy of the County recorded easement document and reported the sign originally installed in the area, as reported in a publication of the community newsletter, was removed by the MSTU in 1991.
- Documentation further indicated County/MSTU utilities are located within the designated easement.
- Hibiscus GC has requested the Lely Golf Estates MSTU release their rights to the easement.
- The MSTU wants to retain the easement.

***Mr. Felger** will contact the County Attorney to ascertain the MSTU's right to use pertaining to the easement, seek guidance on structures and/or improvements which the MSTU can do in the area, and report his findings to the Committee at a future meeting.*

IX. New Business

Mr. Felger reported:

A. Perennial Peanut Plant Options

McGee & Associates recommended Perennial Peanut plants to be replaced with Bulbine plants.

B. Fertilization

A & M will apply fertilizer in accordance with McGee & Associates Schedule in December, 2025.

C. Light Outages

Simmond Electrical of Naples, Inc. provided a quote for Lumec LED driver replacement and installation of retrofit replacement fixtures on St. Andrews Boulevard.

D. Quotes

Mr. Felger presented the following quotes to the Committee for consideration:

A&M Property Maintenance, LLC

1. A & M Property Maintenance presented estimate #1720, dated November 19, 2025, in the amount of $9,074.75 to remove Perennial Peanut from St. Andrews Boulevard and Pebble Beach Medians, specified in the proposal, and Pebble Beach Crossing at the Baltusrol Sign, and install 563 orange Bulbine plants, 1-gallon size, and St. Agustine Floratam Sod, at a cost of $9,074.75.

   Ms. McGarity motioned to approve A&M Property Maintenance, LLC's proposal dated November 19, 2025, in the amount of $9,074.75, to remove Perennial Peanut Plants in medians on Saint Andrews and Pebble Beach Boulevards and Pebble Beach Crossing and install five hundred sixty-three orange Bulbine Plants and sod. Second by Mr. Mann. Carried unanimously 4 – 0.

2. A & M Property Maintenance submitted estimate #1721, dated November 19, 2025, in the amount of $1,500.00, to pressure wash pavers and sidewalk at the entrance to St. Andrews Boulevard and U.S. 41 and Doral Circle. Doral Circle power washing to include the sidewalk connecting to Rattlesnake Hammock Road. Corresponding valley gutters will be cleaned.

   Mr. Mann motioned to approve A&M Property Maintenance, LLC's proposal dated November 19, 2025, in the amount of $1,500.00 to pressure wash pavers and the sidewalk at the entrance to St. Andrews Boulevard and U.S. 41, and Doral Circle. Doral Circle power washing to include the sidewalk connecting to Rattlesnake Hammock Road. Corresponding valley gutters will be cleaned. Second by Ms. McGarity. Carried unanimously 4 – 0.

Contemporary Controls & Communications, Inc.

Contemporary Control & Communications, Inc. submitted estimate No. 10728, dated October 23, 2025, in the amount of $20,115.70, to install Motorola™ irrigation controllers for the Lely MSTU.

Mr. McGee noted that, potentially, piccolo and controller conversion in some areas was not included in the proposal.

The Committee discussed the proposal and agreed to increase the approved amount $40,000.00 to provide funds for additional components if needed.

Mr. Mann motioned to approve Contemporary Controls & Communications, Inc.'s proposal No. 10728, dated October 23, 2025, for an amount not to exceed $40,000.00, for installation of irrigation equipment. Second by Ms. McGarity. Carried unanimously 4 – 0.

Tree Scaping of Naples, Inc.
Tree Scaping of Naples, Inc. submitted estimate No. 11430, dated October 21, 2025, in the amount of $17,351.00 to trim palm and hardwood trees.

Vice Chair Dammert motioned to approve Tree Scaping of Naples, Inc. quote # 11430, dated October 21, 2025, in the amount of $17,351.00, to trim palm and hardwood trees within the Lely MSTU. Second by Mr. Mann. Carried unanimously 4 – 0.

Simmonds Electrical of Naples, Inc.

1. Simmonds Electrical of Naples, Inc, submitted Quote #2517019R, dated October 22, 2025, in the amount of $4,219.16, to furnish and install three LED retrofit replacement fixtures on St. Andrews Boulevard.

   Ms. McGarity moved to approve Simmonds Electrical of Naples, Inc. proposal #2517019R, dated October 22, 2025, in the amount of $4,219.16 to furnish and install three LED retrofit replacement fixtures on streetlamps on St. Andrews Boulevard. Second by Vice Chair Dammert. Carried unanimously 4 – 0.

2. Simmonds Electrical of Naples, Inc, submitted Quote 201722, dated October 22, 2025, in the amount of $2,027.55, to furnish and install four LED drivers on light poles on St. Andrews Boulevard.

   Mr. Mann moved to approve Simmonds Electrical of Naples, Inc. proposal #201722, dated October 22, 2025, in the amount of $2,027.55, to furnish and install four LED Drivers on light poles on St. Andrews Boulevard. Second by Vice Chair Dammert. Carried unanimously 4 – 0.

X. Committee Member and Staff Comments

The Members noted the most important undertaking for the MSTU is the street and STOP sign project.

Mr. Felger is working with a sign supplier to obtain quotes for both restoration of existing signs and poles and new decorative poles with street signs. Signposts must conform to FDOT standards.

XI. Public Comments

Pat McCabe commented:

- Maintenance issues need to be addressed on Doral Circle Median #13.
  Mr. Felger will direct A&M to perform landscape maintenance on the Median.
- What is the plan for the Doral Circle entrance renovation?
  Renovation will be considered in 2026. The project will be debited from the Capital Projects category.
- Which Line item in the budget funds the Street and Traffic signage project?
  Expense incurred will be debited from the Capital Projects Category.
- Planned expenditures to *be* debited from the Capital Projects Category?
  The Asset Management Plan report to estimate useful life of MSTU assets and corresponding expenditure projections to fund maintenance will be updated during the 2027 planning process.

XII. Adjournment

There being no further business to come before the Committee, the meeting was adjourned at 3:25 P.M.

LELY GOLF ESTATES BEAUTIFICATION MSTU ADVISORY COMMITTEE

Kathleen Dammert

Kathleen Dammert, Vice Chair

These Minutes were approved by the Committee on Dec. 18, ,2025 as presented ✓ or as amended ___.

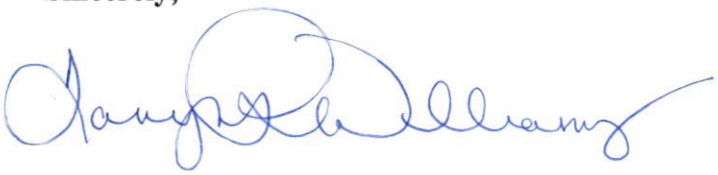
Lely Golf Estates Beautification MSTU/CollierPTNE

NEXT MEETING: **DECEMBER 18, 2025 – 2:00 PM**
SOUTH REGIONAL LIBRARY
8065 LELY CULTURAL PARKWAY
NAPLES, FL 34113
239.252.7542

LIBRARY ADVISORY BOARD

PLEASE NOTE THAT NO MEETING WAS SCHEDULED FOR DECEMBER 2025

Sincerely,



Tanya Williams
Library Director

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

November 26, 2025

FOR IMMEDIATE RELEASE

Notice of Public Meeting
Pelican Bay Services Division Board
Collier County, Florida

December 10, 2025
1:30 p.m.

Notice is hereby given that the **Pelican Bay Services Division Board** will meet on **Wednesday, December 10,** at **1:30 p.m.** in the Community Center at Pelican Bay, 8960 Hammock Oak Drive, Naples, Florida.

Individuals who would like to participate in person must complete and submit a speaker form prior to the beginning of the discussion about the item.

The agenda will be available on the Collier County Government website on the PBSD webpage**.**

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting of those boards, councils or agencies.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless permission for additional time is granted by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call (239) 252-1355.

###

PELICAN BAY SERVICES DIVISION
Municipal Services Taxing & Benefit Unit

NOTICE OF PUBLIC MEETING **WEDNESDAY, DECEMBER 10, 2025**

THE PELICAN BAY SERVICES DIVISION BOARD WILL MEET AT 1:30 PM ON DECEMBER 10 AT THE COMMUNITY CENTER AT PELICAN BAY, 8960 HAMMOCK OAK DRIVE, NAPLES, FLORIDA, 34108.

AGENDA

1. Pledge of Allegiance
2. Roll Call
3. Agenda approval
4. Approval of 11/12/25 Regular Session meeting minutes
5. Audience comments
6. Administrator's Report
    a. Update on projects
    b. Review of the Nov. 30 financials
7. Committee Reports
    a. Clam Bay
    b. Budget
8. Chairman's Report
    a. PBF Government Affairs Committee appointment
    b. Applications for open board positions
9. Old Business
10. New Business/Miscellaneous Correspondence
11. Adjournment

**indicates possible action items*

ANY PERSON WISHING TO SPEAK ON AN AGENDA ITEM WILL RECEIVE UP TO THREE (3) MINUTES PER ITEM TO ADDRESS THE BOARD. THE BOARD WILL SOLICIT PUBLIC COMMENTS ON SUBJECTS NOT ON THIS AGENDA AND ANY PERSON WISHING TO SPEAK WILL RECEIVE UP TO THREE (3) MINUTES. THE BOARD ENCOURAGES YOU TO SUBMIT YOUR COMMENTS IN WRITING IN ADVANCE OF THE MEETING. ANY PERSON WHO DECIDES TO APPEAL A DECISION OF THIS BOARD WILL NEED A RECORD OF THE PROCEEDING PERTAINING THERETO, AND THEREFORE MAY NEED TO ENSURE THAT A VERBATIM RECORD IS MADE, WHICH INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. IF YOU ARE A PERSON WITH A DISABILITY WHO NEEDS AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS MEETING YOU ARE ENTITLED TO THE PROVISION OF CERTAIN ASSISTANCE. PLEASE CONTACT THE PELICAN BAY SERVICES DIVISION AT (239) 252-1355.

PELICAN BAY SERVICES DIVISION BOARD REGULAR SESSION
NOVEMBER 12, 2025

The Pelican Bay Services Division Board met on Wednesday, November 12, 2025, at 1:30 p.m. at the Community Center at Pelican Bay, 8960 Hammock Oak Drive, Naples, Florida 34108. In attendance were:

Pelican Bay Services Division Board
Michael Fogg, Chairman
Joe Chicurel, Vice-Chairman
Jacob Damouni
Nick Fabregas
Peter Griffith *(absent)*
Brad Hildebrandt
Bob Lufkin
Cindy Polke
Michael Rodburg
Greg Stone
Rick Swider
Michael Weir

Pelican Bay Services Division Staff
Neil Dorrill, Administrator
Chad Coleman, Deputy Director
Dawn Brewer, Ops. Support Spec. II
Darren Duprey, Supervisor – Field I *(absent)*
Dave Greenfield, Supervisor - Field II
Karin Herrmann, Project Manager I
Lisa Jacob, Project Manager II
Barbara Shea, Admin. Support Spec. II

Also Present
John Duken, Pelican Bay Foundation

APPROVED AGENDA *(AS PRESENTED)*

1. Pledge of Allegiance
2. Roll Call
3. Agenda approval
4. Approval of 10/8/25 Regular Session meeting minutes
5. Audience comments
6. Administrator's Report
    a. Update on projects
    b. Review of the Oct. 31 financials
7. *Nomination to PBF Government Affairs Committee
8. Chairman's Report
    a. Clam Bay Committee
9. Old Business
10. New Business/Miscellaneous Correspondence
11. Adjournment

ROLL CALL

Mr. Griffith was absent and a quorum was established. Mr. Hildebrandt joined the meeting at 2:05 p.m.

AGENDA APPROVAL

Ms. Polke commented that she was hoping that the agenda items she submitted/suggested would be specifically listed on the board meeting agenda, but expressed approval that these items will be addressed under agenda item #9 and documented in the agenda packet.

Mr. Rodburg motioned, Mr. Stone seconded to approve the agenda as presented. The motion carried unanimously.

APPROVAL OF 10/8/2025 REGULAR SESSION MEETING MINUTES

Ms. Polke commented on accusations/comments from Mr. Rodburg, at the last board meeting, regarding her lack of response to availability to attend meetings and noted that she has communicated her availability to attend committee and board meetings to staff. She requested (1) more civility at PBSD meetings, (2) better communication, and (3) scheduling a PBSD Board workshop to share ideas. Ms. Polke commented on a weird email she received regarding a change of time and location for the Nov. 20 Clam Bay Committee meeting, which is now scheduled for 9 a.m. in the Community Center. She noted that she is in favor of this change in venue as the Community Center room will be able to accommodate more attendees. She suggested that we need to improve communication of scheduled meetings.

Ms. Polke commented that at the last board meeting she was accused of not knowing the difference between dredging sand and trucking in sand. She noted that based on her recent communication with FWC (Florida Fish & Wildlife Conservation Commission), the FWC is able to approve hydraulic dredging and that our dredging permit gives the FWC this approval ability. Ms. Polke commented that a dredge can take place during turtle nesting season as long as the work does not disturb the nests. She noted that a dredge could have been completed earlier in 2025, if the request had been submitted to FWC sooner. Mr. Fogg commented that these issues will be addressed at the Nov. 20 Clam Bay Committee meeting.

Mr. Rodburg motioned, Mr. Fabregas seconded to approve the 10/8/25 regular session meeting minutes as presented. The motion carried 8-1, with Ms. Polke dissenting.

AUDIENCE COMMENTS

Mr. Gary Canino commented on (1) the importance of neighborliness, (2) an increase in volunteers on PBF committees, (3) the importance of honoring "Roberts Rules of Order" at public meetings, and (4) the argument for term limits for board members.

Ms. Beth Schultz, PBPOA President, commented on the email from Mr. Fogg to Mr. Duken on the history of PBSD's study of the possibility of a traffic light at the Gulf Park Dr. and US 41 intersection, included in the agenda packet. She noted that the PBPOA has been in communication with FDOT regarding the possible installation of a traffic light, and reported that FDOT estimated the cost of installation to be $1.5 million. Mr. Fogg commented that the PBSD had estimates of $1.5 – 2.0 million for such a project. Ms. Schultz commented on the need for both the PBF and the PBSD to have a say on stormwater management restrictions on PB single family homes. She also noted that the PBSD assessment on County property tax bills is described as "community improvement," causing some PB residents to confuse this with the PBF pickleball improvement.

Ms. Anne Georgia-Harris, PBPOA Vice President, commented on the ability of our PBSD meetings to be live-streamed or available on ZOOM. She questioned whether the video of this meeting

could be made available to the public. Mr. Dorrill commented that we have videoed our board meetings for at least eight years and that these videos are available to be viewed on the County website. Ms. Polke suggested that the Pelican Bay Foundation needs to make residents aware of this. She also suggested that our PBSD website needs updating. Mr. Coleman commented that there is a link on the PBF website to our PBSD webpage. Mr. Fogg suggested that staff put an item in the PB Post, which informs residents that PBSD Board meetings are available to view on the County website.

Mr. John A. Lane commented on a Pelican Bay power outage the previous night and suggested/displayed an illuminating device that could be used to assist residents during such events.

Mr. Brian Stevens, Chair of the PBF Design Review Committee, commented on his committee's coordination efforts with both the PBSD Landscape Committee and Water Management Committee.

ADMINISTRATOR'S REPORT

UPDATE ON PROJECTS

OPERATIONS FACILITY REPLACEMENT PROJECT

Mr. Dorrill reported that our $5 million Operations Building project, to replace the building which was lost in Hurricane Ian, is essentially complete and that we are waiting on a few final certifications. He commented that the issue of the asphalt not meeting specifications has been resolved and that repaving of a large portion of the parking area is expected as early as tomorrow. Mr. Coleman commented that milling has already begun. Mr. Dorrill commented that he is anxious to schedule a formal dedication of the new building and at a minimum, obtain a temporary C.O.

SIDEWALK PROJECT

Mr. Dorrill reported that our sidewalk improvement project was certified as complete at the end of September and that our one-year warranty period has begun.

CLAM PASS/SAND RECLAMATION WORK

Mr. Dorrill commented that $4.2 million of work is underway at Clam Pass, at the adjacent beaches, and for the reconstruction and reclamation of sand for the dune. He reported that our $434,000 Clam Pass dredge project is underway and that our contractor, Earth Tech Enterprises, began mobilization last week. Mr. Dorrill noted that a pre-construction bathymetric survey of sand accumulation was taken and will be compared to a post-construction survey for purposes of making final payments. A pre-construction meeting was held with the Ritz-Carlton Hotel, Naples Grande Hotel, and PBF to provide information on the project affecting their adjacent properties and to emphasize that we are endeavoring to have all of this work completed prior to Christmas.

Mr. Dorrill reported that our sand reclamation and dune restoration project for the entire Pelican Bay coastal stretch (including Clam Pass Park) is underway. He reported that a portion of the cost of this project will be eligible for TDC reimbursement. Mr. Dorrill commented that two contractors (both entities named Earth Tech) are working on this project, one at the north end and one at the south end. He reported that dead mangrove material is being screened, separated, mulched, and used as a base material for the newly constructed dune and then reclaimed sand (from the mangrove area) will be placed on top. The new dune will be 8 – 12 feet over the existing historic grade of the beach. The cost of this project is $1.4 million.

BEACH RENOURISHMENT

Mr. Dorrill commented that the County's beach renourishment project, managed by the Coastal Zone Management Division, is underway and expected to be completed by Christmas. He noted that currently work is being done on the Vanderbilt Beach area, which will be followed by work on the PB beaches. No beach renourishment work is planned for south of the inlet. Mr. Dorrill commented that the PBSD will be responsible to pay for beach renourishment of PB beach areas considered private, expected to be $2.4 million.

Mr. Dorrill commented on our plans to purchase $250,000 of mangrove seedlings and eligible beach dune plants, to be installed once the dune is reconstructed. These plants will be installed both in the Bay Colony area as well as Clam Pass Park; reimbursement for the Clam Pass Park portion from TDC funds and/or the County General Fund is expected. He noted that we are replanting the mangrove forest on the south side of the inlet at the County Park, an area which was substantially affected during Hurricane Ian. This work will commence at the end of spring/early summer to coincide with the rainy season.

Ms. Polke provided copies of a brochure entitled "beach dune plants" from the Naples Botanical Gardens to the board. She commented that she attended an informative Naples Botanical Gardens seminar on dune restoration. Ms. Polke reported that they create seedlings (of beach dune plants) and offer them to the community. She questioned, "Does the County use the Naples Botanical Gardens as a source of plants?" and "What is PBSD's relationship with the Naples Botanical Garden?" Mr. Dorrill commented that he will follow up on this. He also noted that he has asked staff to identify wholesale sources of dune plants.

CONTESSA AND BAY COLONY DRAINAGE IMPROVEMENTS

Mr. Dorrill reported that we have been working with our counterparts in Bay Colony and the Contessa for some time to design an extension of the dune swale where it currently does not exist (this was never fully constructed by Westinghouse or WCI), convey drainage easements where none currently exist, and then to accept facilities that they build at their expense for operation and maintenance. He noted that the executive summary to authorize the conveyance of the easements to the PBSD is scheduled to be approved by the Board of County Commissioners at their next board meeting. Mr. Dorrill commented that Bay Colony will be responsible for permitting and construction, and then will convey those improvements to the PBSD.

PINECREST LAKE PROJECT

Mr. Dorrill reported that the Pinecrest Lake project has been completed.

SIGN REPLACEMENT PROJECT (PHASE 2)

Mr. Dorrill reported that Phase 2 of our Sign Replacement Project for the replacement of old roadway signs in our community is underway. He noted that the project cost is $150,000 to be completed over four years. Ms. Polke commented on the black signs installed on Gulf Park Drive that have a stop sign in front of a yield sign which are very confusing to drivers (stop or go?), and expressed hope that we are not installing more of these. Mr. Dorrill responded that he does not believe we are installing any more of these type of signs and will look into whether there is any signage available that is less confusing. Ms. Polke questioned whether these signs could be removed. Mr. Dorrill noted that the signs installed at the crosswalks are to code; however, they are confusing. Mr. Fogg confirmed that these signs are in compliance with FDOT requirements. In Florida, pedestrians have the right-of-way once they step into a crosswalk.

RE-SODDING PROJECT

Mr. Fogg questioned why we are re-sodding at the intersection of Green Tree Drive and Gulf Park Drive for about the fifth time. Mr. Dorrill commented that he takes responsibility for this work based on his observations of the condition of sod in this and other areas at the end of the summer. Mr. Fogg suggested that we consider replacement of sod in this area with something else. Mr. Dorrill responded that he will discuss this issue with Mr. Greenfield, and also consider a test patch of zoysia grass, a Florida hybrid type of sod.

REVIEW OF THE OCTOBER 31 FINANCIALS

Mr. Dorrill reviewed the October 31 financial statements and discussed highlights including (1) $5.8 million in cash, (2) $7.8 million in encumbered funds for projects in process, and (3) $780,000 in reserves. He noted that he suspects that based on a review of the October financials, not all of the October entries were processed at the time that these statements were provided. Mr. Fogg commented that the Budget Committee is scheduled to meet in early December to review our capital accounts; some transfers may be necessary.

NOMINATION TO PBF GOVERNMENT AFFAIRS COMMITTEE

Mr. Fogg commented that at our October board meeting, Ms. Carol Hartman, PBF Board member, provided a presentation on the formation of a PBF Government Affairs Committee and requested that the PBSD Board nominates a board member to represent the PBSD on this new committee. He noted that Ms. Polke and Mr. Weir are both interested in being the PBSD Board representative. Ms. Polke reported that she has submitted her application to the PBF for a position on this committee. She suggested that this committee has not yet been formed, and that it is premature to nominate a PBSD representative.

Mr. Hildebrandt and Mr. Rodburg expressed concerns about a conflict of interest of a PBSD Board member serving on the PBF Government Affairs Committee. Mr. Rodburg noted that the PBSD representative would have to provide reports to the full board. He suggested that we need guidance on this. Mr. Hildebrandt commented that when he was appointed to the PBSD Board, he was informed that he would not be able to serve on the PBF Board or any PBF Committee while serving on the PBSD Board. Mr. Dorrill commented that he will follow up on whether this would be a conflict of interest with Ms. Colleen Greene of the County Attorney's Office. Mr. Fogg suggested that it is worth having a PBSD Board member on this PBF committee to represent PBSD views. This issue was tabled until the next board meeting.

CHAIRMAN'S REPORT

Mr. Fogg commented that the Nov. 20 Clam Bay Committee meeting was moved from the afternoon to the morning, to a meeting room in the Community Center, to accommodate a larger expected audience; the meeting will include discussion of our dredging and beach restoration projects.

Mr. Fogg commented that at the upcoming Budget Committee meeting (scheduled for Dec. 2), FY26 project funding will be reviewed to determine whether these projects are adequately funded.

Mr. Fogg reported that staff is meeting with Bay Colony representatives next week. Mr. Dorrill commented that staff will make a presentation to address the suggestion by a Bay Colony resident for the hardening of the Bay Colony dune swale and explain why this does not make sense for the PBSD to take on.

OLD BUSINESS

STOP LIGHT AT GULF PARK DRIVE AND US 41

Mr. Fogg commented that in 2018, "no left turn" signage was installed at the intersection of Gulf Park Dr. and US 41 as a safety improvement. He noted that the state is resurfacing US 41 in 2027, which will include median reconfiguration at this intersection in their project. Mr. Fogg commented that over many years, the PBSD gathered information on the feasibility of getting a traffic light installed at this intersection. However, per the County Attorney, the installation of a traffic light on US 41 is clearly outside of Pelican Bay boundaries and no PBSD funds could be used for this purpose; the issue was turned over to Ms. Susan Levine, PBF Board (to possibly pursue). Mr. Fogg commented that the PBF Chair is willing to take this issue on and suggested that the first step would be to determine how strongly the community is in support of pursuing this. He noted that the PBSD did not have overwhelming resident interest in this topic. Mr. Hildebrandt commented that County staff had indicated that if the PB community wanted a traffic light that they would have to pay the cost of $1.5-2.0 million. Ms. Polke suggested that a traffic light would slow down the traffic and may reduce the road noise to PB residents. She noted that noise abatement is included in our ordinance.

DRONE VIDEOS

Ms. Polke suggested that the PBSD obtains drone photos of PB mangrove areas, at regular intervals, for comparison and monitoring purposes, which would be cost effective and very informative. She also suggested that obtaining drone photos would be worthwhile and proactive for the purposes of monitoring all of our assets.

Mr. Dorrill commented that aerials are performed monthly of key areas of importance including mangrove die-off areas, the inlet, and the back bay system. He noted that we receive a monthly video of the PB coastline from another County source, which has been shown to the board at recent board meetings. Mr. Dorrill commented that Ms. Jacob has photos to share with the board at this meeting, which should have been shown during his earlier Administrator's Report. Ms. Jacob provided photos which included (1) the PB coastline, (2) the mangrove die-off area in Clam Pass Park, (3) the inlet area, and (4) areas in Bay Colony including mangrove die-off areas, sand reclamation areas, and the location of the planned extension of the dune swale just south of the Contessa.

Mr. Dorrill commented that our consultants routinely use drones and aerial photography for monitoring purposes in the course of our capital projects and monitoring obligations. In response to Ms. Polke, he noted that these photos have been shown at committee meetings and that he would not be opposed to uploading this photography to our PBSD webpage on the County website, which unfortunately, is not very user friendly. Ms. Polke commented that Mr. Tom Polke found an interactive topographical map of Clam Bay which shows the areas in Clam Bay pertaining to our permit.

PBSD BOARD MEMBER EMAIL ADDRESSES AND PHONE NUMBERS

Mr. Coleman confirmed that board members' personal email addresses and phone numbers are not provided on the PBSD website. Ms. Polke suggested that this information be made available to residents because currently, residents do not know how to contact PBSD Board members. Mr. Rodburg questioned whether there continues to be an opportunity for board members to obtain a County email account. Mr. Dorrill confirmed this and also suggested the idea of a "general mailbox" to be placed on our website for incoming resident emails. He commented that he would oppose providing personal phone numbers as any text message or communication that board members receive would be a public record and would need to be saved and made available (in case of a public records request).

Ms. Polke commented that she has a County email account which she has trouble with. Mr. Dorrill commented that the County has an elaborate IT Dept. which would be able to provide her with assistance. Ms. Polke questioned whether board members could set up separate personal gmail accounts for PBSD business purposes. Mr. Dorrill responded that the County has an exhaustive IT policy/public records policy and a gmail account would not comply with this policy. Mr. Coleman commented that all staff contact information is on our website and that there is no reason for residents to contact board members. Mr. Stone agreed and suggested (1) any email that he received would be referred over to staff, (2) to comply with Sunshine Law, no email could be shared with another board member, and (3) no board member is authorized to respond to a resident on behalf of the board.

Mr. Fogg commented that if any board member would like a County email account that they should let staff know. Ms. Polke suggested that the PBF could set up a PBSD webpage on their website which could include summaries of our meetings, prepared by committee chairs. She also questioned whether PBSD Board members could provide their contact information on the PBF website. Mr. Dorrill emphasized that implementing any of these suggestions would be a violation of County public records requirements and policies.

TERM LIMITS FOR PBSD BOARD MEMBERS

Ms. Polke commented that the PBF Board has term limits, allowing for two successive three-year terms. She noted that the PBSD Board has no term limit policy and that there are board members who have served on this board for 16-20 years. She suggested that other residents should have a turn to speak on this board. Ms. Polke commented that several residents have suggested term limits for our board. Mr. Fogg commented that no County advisory boards/committees have term limits. He noted that we often have no or few applicants for seats on our board (no elections were held in recent years as the number of applications received for open seats did not exceed the number of seats). Mr. Dorrill commented that the other side of the pro-term limit argument is that we often have a problem in finding candidates to serve on our board, and confirmed that no County advisory boards/committee have term limits. Mr. Dorrill confirmed that we will be conducting a PBSD Board election this winter. Dr. Chicurel commented that there is always the potential for the community to "term you out" through their votes or the BCC could decide not to re-appoint you.

Mr. Fogg commented that if we decided that term limits would be appropriate for board members, we would be required to open the ordinance up to include term limits, and he expressed concern over this. Mr. Fogg suggested that the PBSD Board does not have a problem with board members serving too long and expects our 2026 winter election to be contested, and some board members may be replaced. He tabled this issue for now.

INFORMAL PBSD BOARD WORKSHOPS

Ms. Polke suggested scheduling a PBSD Board workshop at the beginning of the year to discuss priorities and strategic goals for the upcoming year followed by a wrap-up meeting at the end of the year. She suggested that this would be a public workshop outside of a monthly meeting for informal discussion, while being held "in the sunshine." Ms. Polke commented that as a new board member, it is difficult to absorb everything. Mr. Fogg commented that in general, there is no restriction on discussion of any topics at our board or committee meetings, and noted that our committee meetings are really a type of workshop where various topics are brought up for discussion. Mr. Fogg suggested that a meeting called a workshop would not be any more interactive than our current meetings.

Ms. Polke suggested that such a workshop would be effective if it was scheduled immediately subsequent to an election to benefit new board members. Mr. Fogg agreed that it is not easy for a new board member to get up to speed on the PBSD. He noted that we do schedule orientation meetings for new board members with staff.

Mr. Fogg asked Mr. Stone to comment on his experience in becoming a new board member (Spring 2024). Mr. Stone commented that when he came on board, he had an orientation with Mr. Coleman, and toured PB properties with Ms. Herrmann, Ms. Jacob, and Mr. Greenfield, which gave him a broad understanding of the PBSD. He noted that there was a lot of open dialogue on many topics at today's meeting and suggested that a "workshop" meeting would essentially be the same as a board meeting. Mr. Stone commented that there is a learning curve to any new thing, recommended that new board members read meeting minutes and track PBSD activity, and in summary, stated that it was not very difficult to get up to speed. He noted that the biggest challenge is not having any communication with other board members, in compliance with Florida Sunshine Law.

Mr. Fogg suggested that we have a meeting, immediately following the beginning of the term of new board members, to include an elaborate informative discussion of the FY27 budget, during which PBSD goals and ongoing projects would be discussed. He encouraged the interaction of board members with staff.

ADJOURNMENT

The meeting was adjourned at 3:09 p.m.

_____
Michael Fogg, Chairman

Minutes approved [____] *as presented* OR [____] *as amended* ON [_____] *date*

Pelican Bay Services Division Project Tracking Summary 12/1/2025

PBSD New Maintenance Facilities (Project 50211)
A Temporary Certificate of Occupancy was issued. The temporary trailers are being disassembled and removed.

Clam Pass
Clam Pass dredging was completed on November 25. The contractor continues to reclaim sand from Clam Pass Park beach and the South beach restaurant area to rebuild the dune. Planting of mangroves back in Clam Bay and dune vegetation will follow this project.

Sand Reclamation and Dune Restoration
The Division was given approval by Florida Fish & Wildlife Conservation Commission and work began on October 1 to reclaim sand that was pushed east into the mangroves by Hurricanes Helene and Milton. This sand will be used to rebuild the dune and be completed ahead of Collier County Coastal Zone Management beach renourishment project in the areas north of Marker 36. The approximate cost for this project is $1.4 million

Collier County Coastal Zone Management Beach Renourishment
Collier County Coastal Zone Management's beach renourishment project began on December 1. The contractor started just south of the North Beach restaurant and will continue north to Vanderbilt Beach. PBSD will pay approximately $2.4 million for the sand which includes costs for trucking, environmental monitoring, surveying, placement/grading, and project management for the portion generally from Marker 36 to the Bay Colony Beach Club.

Mangrove and Dune Plantings
Following the Collier County beach renourishment project, mangroves will be replanted in Clam Bay and sand tolerant plantings (seagrape, buttonwood, sea oats) will be installed along the new dune.

Contessa and Bay Colony Community Association Drainage Easements
The Contessa Condominium and Bay Colony Community Association have initiated the process to grant PBSD drainage easements to improve flow and effectively extend the existing Dune Swale drainage easement further south across the Contessa property to the southern property line shared with BCCA and allow for both entities to obtain permit approval for construction of initial drainage improvements, that once completed, are intended to maintained by PBSD.

Pelican Bay Decorative Traffic Signs
The first set of 30 new decorative traffic signs are in production and the work is tentatively scheduled to begin in January. All traffic signs will be replaced over a period of five years.

PELICAN BAY
BALANCE SHEET
Nov 30, 2025
(UNAUDITED)

	Operating Fund	Street Lighting	Pelican Bay Landscape, Safety, Lake & Beach Projects	Clam Bay Capital Projects	Assessment Funded Activities	Pelican Bay Financed Capital Projects	
OLD FUND NUMBER	109	778	322	320		323	
	1007000000	1008000000	3041000000	3040000000	Total	3042000000	TOTAL
ASSETS							
Cash and investments	4,010,197.33	569,515.93	5,135,481.94	271,418.06	9,986,613.26	362,285.02	10,348,898.28
Interest receivable	-	-	-	-	-	-	-
Trade receivable, net	-	-	-	-	-	-	-
ROU Lease Receivable-Current	-	-	-	-	-	-	-
Due from other Funds	-	-		-	-	-	-
Due from other governments	840.08	-	29,760.60	-	30,600.68	-	30,600.68
Total assets	4,011,037.41	569,515.93	5,165,242.54	271,418.06	10,017,213.94	362,285.02	10,379,498.96
LIABILITIES AND FUND BALANCE							
Liabilities:							
Accounts payable	240,432.72	947.04	341,110.54	11,840.00	594,330.30	325,000.00	919,330.30
Wages payable	-	-		-	-	-	-
Retainage payable	-		-	-	-	-	-
Due to other Government	-	-	-	-	-	-	-
Deferred Inflows-Leases	-	-	-	-	-	-	-
Commercial Paper Loan	-	-	5,130,000.00	-	5,130,000.00	-	5,130,000.00
Total liabilities	240,432.72	947.04	5,471,110.54	11,840.00	5,724,330.30	325,000.00	6,049,330.30
Fund balances:							
Fund balance	3,770,604.69	568,568.89	(305,868.00)	259,578.06	4,292,883.64	37,285.02	4,330,168.66
Total liabilities and fund balances	4,011,037.41	569,515.93	5,165,242.54	271,418.06	10,017,213.94	362,285.02	10,379,498.96
	-	-	-	-	-	-	-
Fund Balance at the end of the period	3,770,604.69	568,568.89	(305,868.00)	259,578.06		37,285.02	
Approved Project Financing Available to Draw						-	
Unspent balance of projects:							
Small projects under $200K	-	-	1,161,743.37	-		-	
50103-PBSD Signage	-	-	395,190.63	-		-	
50126-Beach Renourishment	-	-	4,431,764.58	-		-	
50211-PBSD OPS BLD	-	-	748,111.86	-		-	
50212-PBSD PH2-SW	-	-	263,747.81	-		-	
51026-PBSD Lake Bank Restoration	-	-	483,591.49	-		-	
51100-Clam Bay Restoration	-	-	-	350,783.04		-	
Total unspent balance of major projects	-	-	7,484,149.74	350,783.04		-	
Budgeted reserves:							
991000-Reserve for contingencies	136,400.00	11,000.00	-	-		-	
991700-Reserve for disaster relief	-	-	-	-		-	
992090-Reserve for sinking fund	-	-	-	-		-	
993000-Reserve for capital outlay	129,100.00	28,900.00	-	-		-	
994500-Reserve for future construction and improvement	-	-	-	-		-	
998000-Reserve for cash	475,000.00	40,000.00	-	-		-	
Total budgeted reserves	701,200.00	79,900.00	-	-		-	
Budgeted commitments at the end of the period	701,200.00	79,900.00	7,484,149.74	350,783.04		-	
	3,069,404.69	488,668.89	(7,790,017.74)	(91,204.98)		37,285.02	

Financing Recap:	
Funding for current sidewalk program planned	6,500,000.00
Funding reserved for future capital projects	3,500,000.00
Financing Secured	10,000,000.00

This is the difference between interest earned on unspent proceeds and accrued interest paid on the borrowing.

PELICAN BAY
INCOME STATEMENT
OPERATING FUND - 1007000000
Nov 30, 2025
(UNAUDITED)

	Adopted Budget	Amended Budget	Commitments	October	November	December	ıu	Total Expenditures	Variance	% Budget Consumed
REVENUES AND CARRYFORWARD										
Special assessments	5,888,200.00	5,888,200.00	-	-	2,932,770.46	-		2,932,770.46	(2,955,429.54)	49.8%
FEMA	-	-	-	-	-	-		-	-	#DIV/0!
Interest	80,000.00	80,000.00	-	8,246.28	-	-		8,246.28	(71,753.72)	10.3%
Miscellaneous	-	-	-	930.00	-	-		930.00	930.00	#DIV/0!
Transfers in	-	-	-	-	-	-		-	-	#DIV/0!
Negative 5% of estimated revenue	(298,500.00)	(298,500.00)	-	-	-	-		-	298,500.00	
Budgeted carryforward	1,521,800.00	1,532,300.00	-	-	-	-		-	(1,532,300.00)	
Total revenues + carryforward	**7,191,500.00**	**7,202,000.00**	**-**	**9,176.28**	**2,932,770.46**	**-**		**2,941,946.74**	**(4,260,053.26)**	**40.8%**
EXPENDITURES AND RESERVES										
Personal services										
Salaries, taxes and retirement	2,223,838.00	2,223,838.00	-	104,893.50	157,825.16	-		262,718.66	1,961,119.34	11.8%
Health, dental, life insurance; Short term, lo	508,862.00	508,862.00	508,862.00	-	-	-		-	-	100.0%
Total personal services	2,732,700.00	2,732,700.00	508,862.00	104,893.50	157,825.16	-		262,718.66	1,961,119.34	**28.2%**
Operating										
182602-Lake & Stormwater Management fi	851,700.00	851,700.00	411,634.66	23,936.08	55,524.08	-		79,460.16	360,605.18	57.7%
182901-Right of way beautification field	1,813,300.00	1,823,800.00	1,031,242.18	132,379.20	283,887.07	-		416,266.27	376,291.55	79.4%
Total operating	2,665,000.00	2,675,500.00	1,442,876.84	156,315.28	339,411.15	-		495,726.43	736,896.73	**72.5%**
Capital outlay	145,100.00	145,100.00	-	-	-	-		-	145,100.00	0.0%
Transfers out	199,500.00	199,500.00	-	53,332.85	102,704.22	-		156,037.07	43,462.93	78.2%
Total expenditures	5,742,300.00	5,752,800.00	1,951,738.84	314,541.63	599,940.53	-		914,482.16	2,886,579.00	49.8%
Budgeted reserves										
991000-Reserve for contingencies	184,400.00	184,400.00	-	-	-	-		-	184,400.00	
991700-Reserve for disaster relief	700,000.00	700,000.00	-	-	-	-		-	700,000.00	
993000-Reserve for capital outlay	129,100.00	129,100.00	-	-	-	-		-	129,100.00	
998000-Reserve for cash	475,000.00	475,000.00	-	-	-	-		-	475,000.00	
Total reserves	1,449,200.00	1,449,200.00	-	-	-	-		-	1,488,500.00	
Total expenditures + reserves	**7,191,500.00**	**7,202,000.00**	**1,951,738.84**	**314,541.63**	**599,940.53**	**-**		**914,482.16**	**4,375,079.00**	39.8%
EXCESS OF REVENUE OVER EXPENDITURES	**-**	**-**		**(305,365.35)**	**2,332,829.93**	**-**		**2,027,464.58**		

1,743,140.11	Carryforward as of 9/30/25
3,770,604.69	Fund Balance as of 11/30/2025
-	

PELICAN BAY
INCOME STATEMENT
STREET LIGHTING - 1008000000
Nov 30, 2025
(UNAUDITED)

	Adopted Budget	Amended Budget	Commitments	October	November	ecemb	Total Expenditures	Variance	% Budget Consumed
REVENUES AND CARRYFORWARD									
Current Ad Valorem Taxes	932,000.00	932,000.00	-	-	457,510.64	-	457,510.64	(474,489.36)	49.1%
Miscellaneous revenue	-	-	-	-	-	-	-	-	#DIV/0!
Interest	9,000.00	9,000.00	-	621.67	-	-	621.67	(8,378.33)	6.9%
Insurance refunds	-	-	-	-	-	-	-	-	#DIV/0!
Negative 5% of estimated revenue	(47,100.00)	(47,100.00)	-	-	-	-	-	47,100.00	
Transfers in	-	-	-	-	-	-	-	-	
Budgeted carryforward	125,600.00	125,600.00	-	-	-	-	-	(125,600.00)	
Total revenues + carryforward	**1,019,500.00**	**1,019,500.00**	**-**	**621.67**	**457,510.64**	**-**	**458,132.31**	**(561,367.69)**	**44.9%**
EXPENDITURES AND RESERVES									
Personal services									
Salaries, taxes and retirement	124,694.00	124,694.00	-	5,835.48	9,076.38	-	14,911.86	109,782.14	12.0%
Health, dental, life insurance; Short term, long term disability; W	19,806.00	19,806.00	19,806.00	-	-	-	-	-	100.0%
Total operating	144,500.00	144,500.00	19,806.00	5,835.48	9,076.38	-	14,911.86	109,782.14	**24.0%**
Operating									
182701-Street Lighting Field Operations	255,900.00	255,900.00	125,925.31	17,664.15	14,842.71	-	32,506.86	97,467.83	61.9%
Total operating	255,900.00	255,900.00	125,925.31	17,664.15	14,842.71	-	32,506.86	97,467.83	**61.9%**
Capital outlay	400.00	400.00	-	-	-	-	-	400.00	0.0%
Transfers out	538,800.00	538,800.00	-	-	9,193.08	-	9,193.08	529,606.92	1.7%
Total expenditures	939,600.00	939,600.00	145,731.31	23,499.63	33,112.17	-	56,611.80	737,256.89	21.5%
Budgeted reserves									
991000-Reserve for Contingencies	11,000.00	11,000.00	-	-	-	-	-	11,000.00	
993000-Reserve for capital outlay	28,900.00	28,900.00	-	-	-	-	-	28,900.00	
998000-Reserve for cash	40,000.00	40,000.00	-	-	-	-	-	40,000.00	
Total reserves	79,900.00	79,900.00	-	-	-	-	-	79,900.00	
Total expenditures + reserves	**1,019,500.00**	**1,019,500.00**	**145,731.31**	**23,499.63**	**33,112.17**	**-**	**56,611.80**	**817,156.89**	19.8%
EXCESS OF REVENUE OVER EXPENDITURES	-	-		(22,877.96)	424,398.47	-	401,520.51		

167,048.38	Carryforward as of 9/30/25
568,568.89	Fund Balance as of 11/30/2025
-	

PELICAN BAY
INCOME STATEMENT
PELICAN BAY LANDSCAPE, SAFETY, LAKE & BEACH PROJECTS - 3041000000
Nov 30, 2025
(UNAUDITED)

	Adopted Budget	Amended Budget	Commitments	October	November	cem	Total Expenditures	Variance	% Budget Consumed
REVENUES AND CARRYFORWARD									
Special assessments	5,716,600.00	5,716,600.00	-	-	2,835,266.96	#	2,835,266.96	(2,881,333.04)	49.6%
Misc Revenue	-	-	-	-	-	#	-	-	#DIV/0!
Interest	40,000.00	40,000.00	-	12,530.12	-	#	12,530.12	(27,469.88)	31.3%
Insurance refunds	-	-	-	-	-	#	-	-	#DIV/0!
Transfers in	1,035,000.00	1,035,000.00	-	-	-	#	-	(1,035,000.00)	0.0%
Negative 5% of estimated revenue	(287,800.00)	(287,800.00)	-	-	-	#	-	287,800.00	
Budgeted carryforward	136,500.00	2,286,862.87	-	-	-	#	-	(2,286,862.87)	
Total revenues + carryforward	**6,640,300.00**	**8,790,662.87**	**-**	**12,530.12**	**2,835,266.96**	**#**	**2,847,797.08**	**(5,942,865.79)**	**32.4%**
EXPENDITURES AND RESERVES									
Projects:									
50066-PBSD Landscape Improvement	250,000.00	276,031.38	50,288.00	5,040.00	-	#	5,040.00	220,703.38	20.0%
50103-PBSD Signage	150,000.00	395,190.63	214,990.72	-	-	#	-	180,199.91	54.4%
50126-Beach Renourishment	3,878,100.00	4,629,781.58	3,090,158.00	17.00	198,000.00	#	198,017.00	1,341,606.58	71.0%
50158-PBSD Roadway Safety	100,000.00	110,959.34	20,608.50	-	-	#	-	90,350.84	18.6%
50178-Sidewalk Maintenance/Enhancement	-	18,104.57	18,104.57	-	-	#	-	-	100.0%
50211-PBSD OPS BLD	478,700.00	786,597.75	302,841.60	11,728.48	26,757.41	#	38,485.89	445,270.26	43.4%
50212-PBSD PH1-SW	-	281,247.81	254,872.51	-	17,500.00	#	17,500.00	8,875.30	96.8%
50272-Streetlight Maint.	-	172,123.52	103,963.69	-	37,106.74	#	37,106.74	31,053.09	82.0%
50307-PB Drain/Pipe Maint.	500,000.00	660,930.80	442,388.00	-	34,259.50	#	34,259.50	184,283.30	
51026-PBSD Lake Bank Restoration	400,000.00	576,195.49	26,500.00	92,604.00	-	#	92,604.00	457,091.49	20.7%
Total expenditures	5,756,800.00	7,907,162.87	4,524,715.59	109,389.48	313,623.65	#	423,013.13	2,959,434.15	**5.3%**
Transfers out	883,500.00	883,500.00	-	14,600.00	85,243.76	#	99,843.76	783,656.24	11.3%
Total expenditures	6,640,300.00	8,790,662.87	4,524,715.59	123,989.48	398,867.41	#	522,856.89	3,743,090.39	5.9%
Budgeted reserves									
998900-Reserve for Proj	-	-	-	-	-		-	-	
993000-Reserve for capital outlay	-	-	-	-	-	#	-	-	
992090-Reserve for sinking fund	-	-	-	-	-	#	-	-	
991700-Reserve for disaster relief	-	-	-	-	-	#	-	-	
Total reserves	-	-	-	-	-	#	-	-	#DIV/0!
Total expenditures + reserves	**6,640,300.00**	**8,790,662.87**	**4,524,715.59**	**123,989.48**	**398,867.41**	**#**	**522,856.89**	**3,743,090.39**	**57.4%**
EXCESS OF REVENUE OVER EXPENDITURES	**-**	**-**		**(111,459.36)**	**2,436,399.55**	**#**	**2,324,940.19**		

2,499,191.81	Carryforward as of 9/30/25
4,824,132.00	Fund Balance as of 11/30/2025
5,130,000.00	Commercial Paper loan

PELICAN BAY
INCOME STATEMENT
CLAM BAY CAPITAL PROJECT FUND - 3040000000
Nov 30, 2025
(UNAUDITED)

	Adopted Budget	Amended Budget	Commitments	October	November	ecemb	Total Expenditures	Variance	% Budget Consumed
REVENUES AND CARRYFORWARD									
Special assessments	268,100.00	268,100.00	-	-	133,328.60	-	133,328.60	(134,771.40)	49.7%
Interest	6,000.00	6,000.00	-	619.05	-	-	619.05	(5,380.95)	10.3%
Transfer In	-	-	-	-	-	-	-	-	#DIV/0!
Negative 5% of estimated revenue	(13,800.00)	(13,800.00)	-	-	-	-	-	13,800.00	0.0%
Budgeted carryforward	29,300.00	154,525.79	-	-	-	-	-	(154,525.79)	
Total revenues + carryforward	**289,600.00**	**414,825.79**	**-**	**619.05**	**133,328.60**	**-**	**133,947.65**	**(280,878.14)**	**32.3%**
EXPENDITURES AND RESERVES									
Projects:									
51100-Clam Bay Restoration	275,000.00	400,225.79	271,298.59	36,527.75	12,915.00	-	49,442.75	79,484.45	80.1%
Total operating	275,000.00	400,225.79	271,298.59	36,527.75	12,915.00	-	49,442.75	79,484.45	**80.1%**
Transfers out	14,600.00	14,600.00	-	-	4,315.89	-	4,315.89	10,284.11	29.6%
Total expenditures	289,600.00	414,825.79	271,298.59	36,527.75	17,230.89	-	53,758.64	89,768.56	78.4%
Budgeted reserves									
991000-Reserve for contingencies	-	-	-	-	-	-	-	-	
998000-Reserve for cash	-	-	-	-	-	-	-	-	
Total reserves	-	-		-	-	-			
Total expenditures + reserves	**289,600.00**	**414,825.79**	**271,298.59**	**36,527.75**	**17,230.89**	**-**	**53,758.64**	**89,768.56**	78.4%
EXCESS OF REVENUE OVER EXPENDITURES	-	-		(35,908.70)	116,097.71	-	80,189.01		

179,389.05	Carryforward as of 9/30/25
259,578.06	Fund Balance as of 11/30/2025
-	

PELICAN BAY
INCOME STATEMENT
COMMERCIAL PAPER - 3042000000
Nov 30, 2025
(UNAUDITED)

	Adopted Budget	Amended Budget	Commitments	October	November	ecemb	Total Expenditures	Variance	% Budget Consumed
REVENUES AND CARRYFORWARD									
Loan Proceeds	-	-	-	-	-	-	-	-	#DIV/0!
Interest			-	1,154.30	-	-	1,154.30	1,154.30	#DIV/0!
Budgeted carryforward	-	-	-	-	-	-	-	-	#DIV/0!
		-	-	-	-	-	-	-	#DIV/0!
			-	-	-	-	-	-	
Total revenues + carryforward	-	-	-	1,154.30	-	-	1,154.30	1,154.30	**#DIV/0!**
EXPENDITURES AND RESERVES									
Projects:									
50212-Pelican Bay Sidewalk Improvements Phase 2		-	-	-	-	-	-	-	#DIV/0!
Total Expenditure	-	-	-	-	-	-	-	-	**#DIV/0!**
Transfers out	-	-	-	-	-	-	-	-	#DIV/0!
Total expenditures	-	-	-	-	-	-	-	-	#DIV/0!
Budgeted reserves									
993000-Reserve for capital	-	-	-	-	-	-	-	-	
Total reserves	-	-		-	-	-			
Total expenditures + reserves	-	-	-	-	-	-	-	-	#DIV/0!
EXCESS OF REVENUE OVER EXPENDITURES	-	-		1,154.30	-	-	1,154.30		

36,130.72	Carryforward as of 9/30/25
37,285.02	Fund Balance as of 11/30/2025
-	

Agenda Items relating to Clam Bay Committee meeting report

1. 2024 Water Quality Report
    a. Impairment and its consequences presentation (Collier County representative Rhoda Watkins)
    b. Proposed impairment for dissolved oxygen
    c. Major findings from 2024 WQ report
2. Outreach to Seagate and Naples Cay communities (Sept. 9 meeting)
3. Restoration projects underway or completed
    a. Dredging of Clam Pass
    b. Sand over wash removal and dune restoration
    c. Beach renourishment
    d. Mangrove restoration and coastal plantings
4. Clam Bay Management operational and permit issues
    a. Permit status
    b. Dredge frequency criteria and template
    c. Tidal exchange issues
    d. Extension of hand dug channel system
    e. Seagrass restoration
5. Water Quality issues
    a. Evaluation and control of nutrient sources
6. Items to be discussed at January 12 meeting
    a. Benthic Survey (Nov. 3 report)
    b. Potential changes to current dredge frequency criteria
    c. Proposal for updated hydrodynamic and morphology models and updated Clam Pass inlet stability study

Barbara Shea

Subject: FW: (RLS) PBSD Question on conflict of interest

From: Colleen Greene <Colleen.Greene@collier.gov>
Sent: Wednesday, November 26, 2025 11:12 AM
To: Barbara Shea <Barbara.Shea@collier.gov>
Cc: Chad Coleman <Chad.Coleman@collier.gov>; Tammy Althouse <Tammy.Althouse@collier.gov>
Subject: (RLS) PBSD Question on conflict of interest

Barbara,

The Pelican Bay Foundation asked the PBSD Board to nominate a PBSD Board member to serve on a Pelican Bay Foundation Committee.

The PBSD Board may do so and make a recommendation to the BCC to approve the nomination to the Pelican Bay Foundation. Consent agenda item.

The Pelican Bay Foundation committee will be discussing and reviewing "governmental issues." The Foundation does not make recommendations to the PBSD or the BCC.

There is no conflict of interest.

Colleen M. Greene
Managing Assistant County Attorney
239-252-8490

From: Barbara Shea <Barbara.Shea@collier.gov>
Sent: Tuesday, November 18, 2025 8:12 AM
To: Colleen Greene <Colleen.Greene@collier.gov>
Cc: Chad Coleman <Chad.Coleman@collier.gov>
Subject: Question on conflict of interest

Good Morning Colleen,

Can you please advise us on whether there would be a conflict of interest if our PBSD Board nominated **one** of its own board members to also serve on a Pelican Bay Foundation committee (which reports to the Pelican Bay Foundation Board). This question came up at our November PBSD Board meeting.

Thank you,
Barbara

PELICAN BAY SERVICES DIVISION BOARD REGULAR SESSION
NOVEMBER 12, 2025

The Pelican Bay Services Division Board met on Wednesday, November 12, 2025, at 1:30 p.m. at the Community Center at Pelican Bay, 8960 Hammock Oak Drive, Naples, Florida 34108. In attendance were:

Pelican Bay Services Division Board
Michael Fogg, Chairman
Joe Chicurel, Vice-Chairman
Jacob Damouni
Nick Fabregas
Peter Griffith *(absent)*
Brad Hildebrandt
Bob Lufkin
Cindy Polke
Michael Rodburg
Greg Stone
Rick Swider
Michael Weir

Pelican Bay Services Division Staff
Neil Dorrill, Administrator
Chad Coleman, Deputy Director
Dawn Brewer, Ops. Support Spec. II
Darren Duprey, Supervisor – Field I *(absent)*
Dave Greenfield, Supervisor - Field II
Karin Herrmann, Project Manager I
Lisa Jacob, Project Manager II
Barbara Shea, Admin. Support Spec. II

Also Present
John Duken, Pelican Bay Foundation

APPROVED AGENDA *(AS PRESENTED)*

1. Pledge of Allegiance
2. Roll Call
3. Agenda approval
4. Approval of 10/8/25 Regular Session meeting minutes
5. Audience comments
6. Administrator's Report
    a. Update on projects
    b. Review of the Oct. 31 financials
7. *Nomination to PBF Government Affairs Committee
8. Chairman's Report
    a. Clam Bay Committee
9. Old Business
10. New Business/Miscellaneous Correspondence
11. Adjournment

ROLL CALL

Mr. Griffith was absent and a quorum was established. Mr. Hildebrandt joined the meeting at 2:05 p.m.

AGENDA APPROVAL

Ms. Polke commented that she was hoping that the agenda items she submitted/suggested would be specifically listed on the board meeting agenda, but expressed approval that these items will be addressed under agenda item #9 and documented in the agenda packet.

Mr. Rodburg motioned, Mr. Stone seconded to approve the agenda as presented. The motion carried unanimously.

APPROVAL OF 10/8/2025 REGULAR SESSION MEETING MINUTES

Ms. Polke commented on accusations/comments from Mr. Rodburg, at the last board meeting, regarding her lack of response to availability to attend meetings and noted that she has communicated her availability to attend committee and board meetings to staff. She requested (1) more civility at PBSD meetings, (2) better communication, and (3) scheduling a PBSD Board workshop to share ideas. Ms. Polke commented on a weird email she received regarding a change of time and location for the Nov. 20 Clam Bay Committee meeting, which is now scheduled for 9 a.m. in the Community Center. She noted that she is in favor of this change in venue as the Community Center room will be able to accommodate more attendees. She suggested that we need to improve communication of scheduled meetings.

Ms. Polke commented that at the last board meeting she was accused of not knowing the difference between dredging sand and trucking in sand. She noted that based on her recent communication with FWC (Florida Fish & Wildlife Conservation Commission), the FWC is able to approve hydraulic dredging and that our dredging permit gives the FWC this approval ability. Ms. Polke commented that a dredge can take place during turtle nesting season as long as the work does not disturb the nests. She noted that a dredge could have been completed earlier in 2025, if the request had been submitted to FWC sooner. Mr. Fogg commented that these issues will be addressed at the Nov. 20 Clam Bay Committee meeting.

Mr. Rodburg motioned, Mr. Fabregas seconded to approve the 10/8/25 regular session meeting minutes as presented. The motion carried 8-1, with Ms. Polke dissenting.

AUDIENCE COMMENTS

Mr. Gary Canino commented on (1) the importance of neighborliness, (2) an increase in volunteers on PBF committees, (3) the importance of honoring "Roberts Rules of Order" at public meetings, and (4) the argument for term limits for board members.

Ms. Beth Schultz, PBPOA President, commented on the email from Mr. Fogg to Mr. Duken on the history of PBSD's study of the possibility of a traffic light at the Gulf Park Dr. and US 41 intersection, included in the agenda packet. She noted that the PBPOA has been in communication with FDOT regarding the possible installation of a traffic light, and reported that FDOT estimated the cost of installation to be $1.5 million. Mr. Fogg commented that the PBSD had estimates of $1.5 – 2.0 million for such a project. Ms. Schultz commented on the need for both the PBF and the PBSD to have a say on stormwater management restrictions on PB single family homes. She also noted that the PBSD assessment on County property tax bills is described as "community improvement," causing some PB residents to confuse this with the PBF pickleball improvement.

Ms. Anne Georgia-Harris, PBPOA Vice President, commented on the ability of our PBSD meetings to be live-streamed or available on ZOOM. She questioned whether the video of this meeting

could be made available to the public. Mr. Dorrill commented that we have videoed our board meetings for at least eight years and that these videos are available to be viewed on the County website. Ms. Polke suggested that the Pelican Bay Foundation needs to make residents aware of this. She also suggested that our PBSD website needs updating. Mr. Coleman commented that there is a link on the PBF website to our PBSD webpage. Mr. Fogg suggested that staff put an item in the PB Post, which informs residents that PBSD Board meetings are available to view on the County website.

Mr. John A. Lane commented on a Pelican Bay power outage the previous night and suggested/displayed an illuminating device that could be used to assist residents during such events.

Mr. Brian Stevens, Chair of the PBF Design Review Committee, commented on his committee's coordination efforts with both the PBSD Landscape Committee and Water Management Committee.

ADMINISTRATOR'S REPORT

UPDATE ON PROJECTS

OPERATIONS FACILITY REPLACEMENT PROJECT

Mr. Dorrill reported that our $5 million Operations Building project, to replace the building which was lost in Hurricane Ian, is essentially complete and that we are waiting on a few final certifications. He commented that the issue of the asphalt not meeting specifications has been resolved and that repaving of a large portion of the parking area is expected as early as tomorrow. Mr. Coleman commented that milling has already begun. Mr. Dorrill commented that he is anxious to schedule a formal dedication of the new building and at a minimum, obtain a temporary C.O.

SIDEWALK PROJECT

Mr. Dorrill reported that our sidewalk improvement project was certified as complete at the end of September and that our one-year warranty period has begun.

CLAM PASS/SAND RECLAMATION WORK

Mr. Dorrill commented that $4.2 million of work is underway at Clam Pass, at the adjacent beaches, and for the reconstruction and reclamation of sand for the dune. He reported that our $434,000 Clam Pass dredge project is underway and that our contractor, Earth Tech Enterprises, began mobilization last week. Mr. Dorrill noted that a pre-construction bathymetric survey of sand accumulation was taken and will be compared to a post-construction survey for purposes of making final payments. A pre-construction meeting was held with the Ritz-Carlton Hotel, Naples Grande Hotel, and PBF to provide information on the project affecting their adjacent properties and to emphasize that we are endeavoring to have all of this work completed prior to Christmas.

Mr. Dorrill reported that our sand reclamation and dune restoration project for the entire Pelican Bay coastal stretch (including Clam Pass Park) is underway. He reported that a portion of the cost of this project will be eligible for TDC reimbursement. Mr. Dorrill commented that two contractors (both entities named Earth Tech) are working on this project, one at the north end and one at the south end. He reported that dead mangrove material is being screened, separated, mulched, and used as a base material for the newly constructed dune and then reclaimed sand (from the mangrove area) will be placed on top. The new dune will be 8 – 12 feet over the existing historic grade of the beach. The cost of this project is $1.4 million.

BEACH RENOURISHMENT

Mr. Dorrill commented that the County's beach renourishment project, managed by the Coastal Zone Management Division, is underway and expected to be completed by Christmas. He noted that currently work is being done on the Vanderbilt Beach area, which will be followed by work on the PB beaches. No beach renourishment work is planned for south of the inlet. Mr. Dorrill commented that the PBSD will be responsible to pay for beach renourishment of PB beach areas considered private, expected to be $2.4 million.

Mr. Dorrill commented on our plans to purchase $250,000 of mangrove seedlings and eligible beach dune plants, to be installed once the dune is reconstructed. These plants will be installed both in the Bay Colony area as well as Clam Pass Park; reimbursement for the Clam Pass Park portion from TDC funds and/or the County General Fund is expected. He noted that we are replanting the mangrove forest on the south side of the inlet at the County Park, an area which was substantially affected during Hurricane Ian. This work will commence at the end of spring/early summer to coincide with the rainy season.

Ms. Polke provided copies of a brochure entitled "beach dune plants" from the Naples Botanical Gardens to the board. She commented that she attended an informative Naples Botanical Gardens seminar on dune restoration. Ms. Polke reported that they create seedlings (of beach dune plants) and offer them to the community. She questioned, "Does the County use the Naples Botanical Gardens as a source of plants?" and "What is PBSD's relationship with the Naples Botanical Garden?" Mr. Dorrill commented that he will follow up on this. He also noted that he has asked staff to identify wholesale sources of dune plants.

CONTESSA AND BAY COLONY DRAINAGE IMPROVEMENTS

Mr. Dorrill reported that we have been working with our counterparts in Bay Colony and the Contessa for some time to design an extension of the dune swale where it currently does not exist (this was never fully constructed by Westinghouse or WCI), convey drainage easements where none currently exist, and then to accept facilities that they build at their expense for operation and maintenance. He noted that the executive summary to authorize the conveyance of the easements to the PBSD is scheduled to be approved by the Board of County Commissioners at their next board meeting. Mr. Dorrill commented that Bay Colony will be responsible for permitting and construction, and then will convey those improvements to the PBSD.

PINECREST LAKE PROJECT

Mr. Dorrill reported that the Pinecrest Lake project has been completed.

SIGN REPLACEMENT PROJECT (PHASE 2)

Mr. Dorrill reported that Phase 2 of our Sign Replacement Project for the replacement of old roadway signs in our community is underway. He noted that the project cost is $150,000 to be completed over four years. Ms. Polke commented on the black signs installed on Gulf Park Drive that have a stop sign in front of a yield sign which are very confusing to drivers (stop or go?), and expressed hope that we are not installing more of these. Mr. Dorrill responded that he does not believe we are installing any more of these type of signs and will look into whether there is any signage available that is less confusing. Ms. Polke questioned whether these signs could be removed. Mr. Dorrill noted that the signs installed at the crosswalks are to code; however, they are confusing. Mr. Fogg confirmed that these signs are in compliance with FDOT requirements. In Florida, pedestrians have the right-of-way once they step into a crosswalk.

RE-SODDING PROJECT

Mr. Fogg questioned why we are re-sodding at the intersection of Green Tree Drive and Gulf Park Drive for about the fifth time. Mr. Dorrill commented that he takes responsibility for this work based on his observations of the condition of sod in this and other areas at the end of the summer. Mr. Fogg suggested that we consider replacement of sod in this area with something else. Mr. Dorrill responded that he will discuss this issue with Mr. Greenfield, and also consider a test patch of zoysia grass, a Florida hybrid type of sod.

REVIEW OF THE OCTOBER 31 FINANCIALS

Mr. Dorrill reviewed the October 31 financial statements and discussed highlights including (1) $5.8 million in cash, (2) $7.8 million in encumbered funds for projects in process, and (3) $780,000 in reserves. He noted that he suspects that based on a review of the October financials, not all of the October entries were processed at the time that these statements were provided. Mr. Fogg commented that the Budget Committee is scheduled to meet in early December to review our capital accounts; some transfers may be necessary.

NOMINATION TO PBF GOVERNMENT AFFAIRS COMMITTEE

Mr. Fogg commented that at our October board meeting, Ms. Carol Hartman, PBF Board member, provided a presentation on the formation of a PBF Government Affairs Committee and requested that the PBSD Board nominates a board member to represent the PBSD on this new committee. He noted that Ms. Polke and Mr. Weir are both interested in being the PBSD Board representative. Ms. Polke reported that she has submitted her application to the PBF for a position on this committee. She suggested that this committee has not yet been formed, and that it is premature to nominate a PBSD representative.

Mr. Hildebrandt and Mr. Rodburg expressed concerns about a conflict of interest of a PBSD Board member serving on the PBF Government Affairs Committee. Mr. Rodburg noted that the PBSD representative would have to provide reports to the full board. He suggested that we need guidance on this. Mr. Hildebrandt commented that when he was appointed to the PBSD Board, he was informed that he would not be able to serve on the PBF Board or any PBF Committee while serving on the PBSD Board. Mr. Dorrill commented that he will follow up on whether this would be a conflict of interest with Ms. Colleen Greene of the County Attorney's Office. Mr. Fogg suggested that it is worth having a PBSD Board member on this PBF committee to represent PBSD views. This issue was tabled until the next board meeting.

CHAIRMAN'S REPORT

Mr. Fogg commented that the Nov. 20 Clam Bay Committee meeting was moved from the afternoon to the morning, to a meeting room in the Community Center, to accommodate a larger expected audience; the meeting will include discussion of our dredging and beach restoration projects.

Mr. Fogg commented that at the upcoming Budget Committee meeting (scheduled for Dec. 2), FY26 project funding will be reviewed to determine whether these projects are adequately funded.

Mr. Fogg reported that staff is meeting with Bay Colony representatives next week. Mr. Dorrill commented that staff will make a presentation to address the suggestion by a Bay Colony resident for the hardening of the Bay Colony dune swale and explain why this does not make sense for the PBSD to take on.

OLD BUSINESS

STOP LIGHT AT GULF PARK DRIVE AND US 41

Mr. Fogg commented that in 2018, "no left turn" signage was installed at the intersection of Gulf Park Dr. and US 41 as a safety improvement. He noted that the state is resurfacing US 41 in 2027, which will include median reconfiguration at this intersection in their project. Mr. Fogg commented that over many years, the PBSD gathered information on the feasibility of getting a traffic light installed at this intersection. However, per the County Attorney, the installation of a traffic light on US 41 is clearly outside of Pelican Bay boundaries and no PBSD funds could be used for this purpose; the issue was turned over to Ms. Susan Levine, PBF Board (to possibly pursue). Mr. Fogg commented that the PBF Chair is willing to take this issue on and suggested that the first step would be to determine how strongly the community is in support of pursuing this. He noted that the PBSD did not have overwhelming resident interest in this topic. Mr. Hildebrandt commented that County staff had indicated that if the PB community wanted a traffic light that they would have to pay the cost of $1.5-2.0 million. Ms. Polke suggested that a traffic light would slow down the traffic and may reduce the road noise to PB residents. She noted that noise abatement is included in our ordinance.

DRONE VIDEOS

Ms. Polke suggested that the PBSD obtains drone photos of PB mangrove areas, at regular intervals, for comparison and monitoring purposes, which would be cost effective and very informative. She also suggested that obtaining drone photos would be worthwhile and proactive for the purposes of monitoring all of our assets.

Mr. Dorrill commented that aerials are performed monthly of key areas of importance including mangrove die-off areas, the inlet, and the back bay system. He noted that we receive a monthly video of the PB coastline from another County source, which has been shown to the board at recent board meetings. Mr. Dorrill commented that Ms. Jacob has photos to share with the board at this meeting, which should have been shown during his earlier Administrator's Report. Ms. Jacob provided photos which included (1) the PB coastline, (2) the mangrove die-off area in Clam Pass Park, (3) the inlet area, and (4) areas in Bay Colony including mangrove die-off areas, sand reclamation areas, and the location of the planned extension of the dune swale just south of the Contessa.

Mr. Dorrill commented that our consultants routinely use drones and aerial photography for monitoring purposes in the course of our capital projects and monitoring obligations. In response to Ms. Polke, he noted that these photos have been shown at committee meetings and that he would not be opposed to uploading this photography to our PBSD webpage on the County website, which unfortunately, is not very user friendly. Ms. Polke commented that Mr. Tom Polke found an interactive topographical map of Clam Bay which shows the areas in Clam Bay pertaining to our permit.

PBSD BOARD MEMBER EMAIL ADDRESSES AND PHONE NUMBERS

Mr. Coleman confirmed that board members' personal email addresses and phone numbers are not provided on the PBSD website. Ms. Polke suggested that this information be made available to residents because currently, residents do not know how to contact PBSD Board members. Mr. Rodburg questioned whether there continues to be an opportunity for board members to obtain a County email account. Mr. Dorrill confirmed this and also suggested the idea of a "general mailbox" to be placed on our website for incoming resident emails. He commented that he would oppose providing personal phone numbers as any text message or communication that board members receive would be a public record and would need to be saved and made available (in case of a public records request).

Ms. Polke commented that she has a County email account which she has trouble with. Mr. Dorrill commented that the County has an elaborate IT Dept. which would be able to provide her with assistance. Ms. Polke questioned whether board members could set up separate personal gmail accounts for PBSD business purposes. Mr. Dorrill responded that the County has an exhaustive IT policy/public records policy and a gmail account would not comply with this policy. Mr. Coleman commented that all staff contact information is on our website and that there is no reason for residents to contact board members. Mr. Stone agreed and suggested (1) any email that he received would be referred over to staff, (2) to comply with Sunshine Law, no email could be shared with another board member, and (3) no board member is authorized to respond to a resident on behalf of the board.

Mr. Fogg commented that if any board member would like a County email account that they should let staff know. Ms. Polke suggested that the PBF could set up a PBSD webpage on their website which could include summaries of our meetings, prepared by committee chairs. She also questioned whether PBSD Board members could provide their contact information on the PBF website. Mr. Dorrill emphasized that implementing any of these suggestions would be a violation of County public records requirements and policies.

TERM LIMITS FOR PBSD BOARD MEMBERS

Ms. Polke commented that the PBF Board has term limits, allowing for two successive three-year terms. She noted that the PBSD Board has no term limit policy and that there are board members who have served on this board for 16-20 years. She suggested that other residents should have a turn to speak on this board. Ms. Polke commented that several residents have suggested term limits for our board. Mr. Fogg commented that no County advisory boards/committees have term limits. He noted that we often have no or few applicants for seats on our board (no elections were held in recent years as the number of applications received for open seats did not exceed the number of seats). Mr. Dorrill commented that the other side of the pro-term limit argument is that we often have a problem in finding candidates to serve on our board, and confirmed that no County advisory boards/committee have term limits. Mr. Dorrill confirmed that we will be conducting a PBSD Board election this winter. Dr. Chicurel commented that there is always the potential for the community to "term you out" through their votes or the BCC could decide not to re-appoint you.

Mr. Fogg commented that if we decided that term limits would be appropriate for board members, we would be required to open the ordinance up to include term limits, and he expressed concern over this. Mr. Fogg suggested that the PBSD Board does not have a problem with board members serving too long and expects our 2026 winter election to be contested, and some board members may be replaced. He tabled this issue for now.

INFORMAL PBSD BOARD WORKSHOPS

Ms. Polke suggested scheduling a PBSD Board workshop at the beginning of the year to discuss priorities and strategic goals for the upcoming year followed by a wrap-up meeting at the end of the year. She suggested that this would be a public workshop outside of a monthly meeting for informal discussion, while being held "in the sunshine." Ms. Polke commented that as a new board member, it is difficult to absorb everything. Mr. Fogg commented that in general, there is no restriction on discussion of any topics at our board or committee meetings, and noted that our committee meetings are really a type of workshop where various topics are brought up for discussion. Mr. Fogg suggested that a meeting called a workshop would not be any more interactive than our current meetings.

Ms. Polke suggested that such a workshop would be effective if it was scheduled immediately subsequent to an election to benefit new board members. Mr. Fogg agreed that it is not easy for a new board member to get up to speed on the PBSD. He noted that we do schedule orientation meetings for new board members with staff.

Mr. Fogg asked Mr. Stone to comment on his experience in becoming a new board member (Spring 2024). Mr. Stone commented that when he came on board, he had an orientation with Mr. Coleman, and toured PB properties with Ms. Herrmann, Ms. Jacob, and Mr. Greenfield, which gave him a broad understanding of the PBSD. He noted that there was a lot of open dialogue on many topics at today's meeting and suggested that a "workshop" meeting would essentially be the same as a board meeting. Mr. Stone commented that there is a learning curve to any new thing, recommended that new board members read meeting minutes and track PBSD activity, and in summary, stated that it was not very difficult to get up to speed. He noted that the biggest challenge is not having any communication with other board members, in compliance with Florida Sunshine Law.

Mr. Fogg suggested that we have a meeting, immediately following the beginning of the term of new board members, to include an elaborate informative discussion of the FY27 budget, during which PBSD goals and ongoing projects would be discussed. He encouraged the interaction of board members with staff.

ADJOURNMENT

The meeting was adjourned at 3:09 p.m.

Michael Fogg, Chairman

Minutes approved [V] *as presented* OR [___] *as amended* ON [12/10/25] *date*

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

November 24, 2025

FOR IMMEDIATE RELEASE

Notice of Hybrid Remote Public Meeting
Radio Road Beautification MSTU Advisory Committee
Collier County, Florida

December 3, 2025
3:00 p.m.

Notice is hereby given that the **Radio Road Beautification Municipal Service Taxing Unit (MSTU) Advisory Committee** will meet on **Wednesday, December 3,** at **3:00 p.m.** This will be a Hybrid Remote meeting and it will be held at the Collier Area Transit Conference Room at 8300 Radio Road, Naples, Florida. Some of the Board members may be appearing remotely, with staff present in person. The public may attend either remotely or in person.

Individuals who would like to participate remotely should contact Rosio Garcia at Rosio.Garcia@collier.gov by noon on December 3.

Remote participation is provided as a courtesy and is at the user's risk. The County is not responsible for technical issues.

The agenda will be available on the Collier County Government website at Radio Road Beautification Advisory Committee | Collier PTNE Collier PTNE.

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call Judy Sizensky at (239) 252-4980.

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Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

December 2, 2025

FOR IMMEDIATE RELEASE

Notice of CANCELED Hybrid Remote Public Meeting
Radio Road Beautification MSTU Advisory Committee
Collier County, Florida

December 3, 2025
3:00 p.m.

Notice is hereby given that the **Radio Road Beautification Municipal Service Taxing Unit (MSTU) Advisory Committee** meeting scheduled for **Wednesday, December 3,** at **3:00 p.m.** to be held at the Collier Area Transit Conference Room at 8300 Radio Road, Naples, Florida has been **CANCELED.**

For more information, call Judy Sizensky at (239) 252-4980.

###

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

Dec 1, 2025

FOR IMMEDIATE RELEASE

Notice of Hybrid Remote Public Meeting
Collier County Tourist Development Council
Collier County, Florida

December 12, 2025
9:00 a.m.

Dec. TDC monthly meeting moved to Friday, Dec. 12, 2025

Notice is hereby given that the **Collier County Tourist Development Council** will meet on **Friday, December 12,** at **9:00 a.m.** This will be a Hybrid Remote meeting and it will be held at the Board of County Commissioners Chambers, third floor, Collier County Government Center, 3299 Tamiami Trail E., Naples, Florida. Some of the Council members may be appearing remotely, with staff present in person. The public may participate either remotely or in person.

Individuals who would like to participate in person must complete and submit a speaker form prior to the beginning of the discussion about the item.

Individuals who would like to participate remotely should register at:

https://us02web.zoom.us/meeting/register/vJfMF8F0ThWdl6N4-WGwiA

The deadline to participate remotely is December 11th. After registering, you will receive a confirmation email containing information about joining the meeting.

Remote participation is provided as a courtesy and is at the user's risk. The County is not responsible for technical issues.

About the public meeting:

Two or more members of the Board of County Commissioners, Coastal Advisory Committee, City of Naples City Council, and City of Marco Island City Council may be present and participate at the meeting. The subject matter of this meeting may be an item for discussion and action at future meetings of these Boards.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call Buzzy Ford at (239) 252-2383.

###

COLLIER COUNTY
Tourist Development Council

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AGENDA

Board of County Commission Chambers
Collier County Government Center
3299 Tamiami Trail East, 3rd Floor
Naples, FL 34112

December 12, 2025
9:00 AM

Commissioner Chris Hall, Chair
Clark Hill, Vice-Chair
Susan Becker
Laura Radler
Nancy Kerns
Michael McComas
Edward (Ski) Olesky
Council Member Bill Kramer
Councilor Darrin Palumbo

All interested parties are invited to attend and to register to speak and to submit their objections, if any, in writing to the Council prior to the meeting if applicable. For more information, please contact Jay Tusa at (239) 252-4040. If you are a person with a disability who needs any accommodation in order to participate in this proceeding, you are entitled, at no cost to you, to the provision of certain assistance. Please contact the Collier County Facilities Management Department located at 3335 Tamiami Trail East, Suite 101, Naples, FL 34112-5356, (239) 252-8380. Public comments will be limited to 3 minutes unless the Chairman grants permission for additional time. Collier County Ordinance No. 99-22 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners before the Board of County Commissioners and its advisory boards, register with the Clerk to the Board at the Board Minutes and Records Department.

About the public meeting:

Two or more members of the Board of County Commissioners, Coastal Advisory Committee, City of Naples City Council, and City of Marco Island City Council may be present and participate at the meeting. The subject matter of this meeting may be an item for discussion and action at future meetings of these Boards.

1. **Call to Order**

2. **Pledge of Allegiance**

3. **Roll Call**

4. **Agenda and Minutes**

   Approval of today's Regular, Consent, and Summary agenda as amended (ex-parte disclosure provided by Commission members for Consent agenda.)

   4.A. September 16, 2025 Meeting Minutes *(2025-4782)*

5. **Public Comments**

6. **Presentations**

7. **Tourism Director Report**

   7.A. Tourism Director Update & TDT Tax Reports *(2025-4780)*

8. **Consent Agenda**

   All Matters listed under this agenda item are considered to be routine and action will be taken by one motion without separate discussion of each item. If discussion is desired by a member of the Council, that item will be moved from the Consent Agenda and considered separately under New Business or Old Business.

   8.A. Recommendation to execute a Work Order with Humiston & Moore Engineers to provide professional engineering services for the State required Annual Monitoring of Collier County Beaches and Inlets for 2026 under Contract No. 18-7432-CZ for time and material not to exceed $161,547, and make a finding that this item promotes tourism (Fund 1105, Project No. 90536). *(2025-4783)*

   8.B. Recommendation to approve a Work Order with Humiston & Moore Engineers, PA, under Contract No. 18-7432-CZ, to provide professional engineering services for Maintenance Dredging of Doctors Pass for a lump sum fee of $56,247, and make a finding that this item promotes tourism (Fund 1105, Project No. 90549). *(2025-4881)*

9. **New Business**

   9.A. Recommendation to accept the Convention and Visitors Bureau (CVB) Governance Restructure Study Report and make a finding that the recommendations therein promote tourism. *(2025-4893)*

10. **Old Business**

11. **Ten Minute Break**

12. Agency Partner Reports

12.A. Agency Partner Reports *(2025-4823)*

13. Tourism Staff Reports

13.A. Tourism Staff Report *(2025-4883)*

14. Council Member Discussion

15. Next Meeting Date

15.A. Next TDC Meeting Date - January 20, 2026 *(2025-4781)*

16. Adjourn

MINUTES OF THE COLLIER COUNTY TOURIST DEVELOPMENT COUNCIL MEETING
September 16, 2025 – 9:00 a.m.

LET IT BE REMEMBERED the Collier County Tourist Development Council, in and for the County of Collier, having conducted business herein, met on this date 9:00 a.m. in REGULAR SESSION at 33299 Tamiami Trail East, 3rd floor, Naples, FL 34112 with the following members present:

Commissioner Chris Hall, Chair
Clark Hill, Vice-Chair
Susan Becker
Laura Radler
Nancy Kearns
Michael McComas
Bill Kramer
Councilor Darrin Palumbo
Edward "Ski" Olesky (absent)

ALSO PRESENT:
Jay Tusa, Tourism Director
Buzzy Ford, Digital & Social Media Coordinator
Andy Miller, Coastal Zone Manager
Michael Lieberman, Assistant General Manager, Paradise Coast Sports Complex

Any person who decides to appeal a decision of the Tourist Development Council will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based, Neither Collier County nor the Tourist Development Council shall be responsible for providing this record.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

A. Roll call was taken. A quorum was present with 8 members in person

4. AGENDA and MINUTES

A. Approval of Agenda

Moved by Clark Hill; Seconded by McComas
Motion passed unanimously (8-0).

B. Approval of August 19, 2025 Minutes

Moved by Susan Becker; Seconded by Nancy Kerns
Motion passed unanimously (8-0).

5. PUBLIC COMMENTS

A. Jen Robinson – Blessings in a Backpack
Ms. Robinson, Managing Director, expressed gratitude for the Council's continued support of *Sizzle Dining*, which directly supports the nonprofit's mission to provide weekend food for children facing hunger.

6. PRESENTATIONS

A. Paradise Coast Sports Complex Quarterly Report
Michael Lieberman, Assistant General Manager, presented the Q3 report. Extended details included:

A. Events:

1) *South Florida Cup (soccer)* – Over 300 teams; contract renewed for seven future events.
2) *FHSAA Lacrosse State Championships* – Hosted for the fourth consecutive year.

3) *Great Inflatable 5K* – Unique obstacle 5K with several hundred participants.
4) *FBU Top Gun & 7v7 Flag Football* – Sixth year; 1,500 participants; growing significantly.
5) *FC Naples* – Seven games in the quarter, including U.S. Open Cup play; eliminated after dramatic penalty kicks vs. Tampa Bay Rowdies.

B. Community Events:

1) *Easter Extravaganza* drew 4,000+ participants.
2) *Wags to Riches Puppy Prom* showcased creative venue use.
3) *Hospitality & Tourism Industry Week* hosted 100 professionals with elevated catering, highlighting venue versatility (e.g., weddings).

C. Financials:

1) Q3 revenue: $850,000 (up 35% YoY).
2) Gross profit: $2 million (up 40%).
3) Net operating income: $600,000 (up 65%).

D. Upcoming: 7 FC Naples games scheduled in Q4; Pop Warner football; visit from University of Quebec at Montreal.

E. Recognition: Sports Events Magazine named Paradise Coast Sports Complex the #1 youth soccer & lacrosse venue in the U.S.

Council members commended the report and success of the complex.

7. TOURISM DIRECTOR REPORT

Tourism Director **Jay Tusa** presented updates:

- **July TDT Collections:** $2,729,036; YTD total $42,856,479.
- **Lodging:** Occupancy 51.9% (+2%); ADR $267.08 (-1.9%); RevPAR flat at $138.61.
- **Awards:** CVB received the *Henry Flagler Award* for the "Only Paradise Will Do" print campaign, Visit Florida's highest honor.
- **Partner Engagement:** August 21 breakfast at Great Wolf Lodge drew 100+ partners, highlighting FY26 priorities and marketing initiatives.
- **Meetings & Sales:** 31 RFPs issued; 11 definite bookings; 17,034 room nights secured.
- **PR Coverage:** 10 earned placements (Condé Nast Traveler, CNBC Make It, Vero Beach Magazine) valued at $150M+.
- **International Marketing:** Hosted German and U.K. journalists; launched German family travel blog; secured JTA Travel UK partnership.
- **Content Series:** Five of eight launched (beaches, luxury, athleisure, family, dark skies). Remaining three (Cars on Fifth, Dining, Stone Crab) to debut in FY26.

Mr. Tusa thanked agencies and staff, noting the collective effort.

8. CONSENT AGENDA

A. Recommendation to award Request for Proposal (RFP) #24-8318 for Tourism Public Relation Services to Lou Hammond Group Florida, Inc., and make a finding that this expenditure promotes tourism (2025-2706)

Tourism Director **Jay Tusa** introduced the item, noting that the staff recommendation was to award the public relations services contract to **Lou Hammond Group Florida, Inc.** He explained that Lou Hammond Group has been a longstanding partner for the CVB, consistently delivering earned media coverage in national and international outlets, as well as managing press relations and media visits on behalf of Collier County.

Mr. Tusa highlighted that the firm's scope of work under this RFP will continue to include:

1) Proactive pitching of destination stories to top-tier travel, lifestyle, and trade publications.
2) Coordination of media familiarization (FAM) trips to Collier County.
3) Crisis communication support when needed.
4) Measurement and reporting of media coverage values.

Council members briefly discussed the item, with recognition of Lou Hammond Group's proven track record and recent placements (e.g., Condé Nast Traveler, CNBC, Vero Beach Magazine, and Daily Telegraph coverage). Members agreed this work directly supports tourism by raising Collier County's visibility in competitive markets.

Motion:

Moved by Clark Hill; Seconded by Mike McComas
Motion passed unanimously (8-0).

9. NEW BUSINESS

A. Recommendation to approve a request for reimbursement from the City of Naples for FY 24/25 in the amount not to exceed ($675,000) using Tourist Development Tax funds for beach maintenance and Lowdermilk Park parking lot maintenance, waive any irregularities in the process, authorize the necessary Budget Amendment, and make a finding that this expenditure promotes tourism

(2025-2816)
Presenter: Chad Merritt, Community Services Director, City of Naples (via Zoom).

- Request: $175,000 for Lowdermilk Park benches, tables, and maintenance; $500,000 for daily beach maintenance (40 accesses, 9 miles).

Motion: Moved by Susan Becker; Seconded by Bill Kramer
Motion passed unanimously (8-0).

B. Recommendation to approve the FY 2025-2026, 10-Year Capital Planning document for Tourist Development Tax funds in TDC Beach Renourishment Fund (1105) and TDC engineering Fund (1102) and make a finding that these expenditures promote tourism (2025-2874)

Presenter: Andy Miller, Coastal Zone Manager.

- Annual FDEP-required planning document to maintain grant eligibility.

Motion: Moved by Clark Hill; Seconded by Darren Palumbo
Motion passed unanimously (8-0).

C. Recommendation to approve the fall truck haul beach renourishment project and authorize Tourist Development Tax expenditures for the Vanderbilt Beach Renourishment scheduled for November 2025, with an estimated project cost $5,500,000, and make a finding that this item promotes tourism (project 90066) (2025-2877)
Presenter: Andy Miller, Coastal Zone Manager

- Scope: Truck haul project with contingency funding, completion before Christmas.

Motion: Moved by Darren Palumbo; Seconded by Bill Kramer
Motion passed unanimously (8-0).

C. Recommendation to approve the Tourist Development Council Grant application requests from Collier County and the City of Naples for FY 2025–2026 in the amount of $18,569,300, budget these expenditures, and make a finding that these expenditures promote tourism. (2025-2930)

Presenter: Andy Miller, Coastal Zone Manager

- Discussion: Chairman Hall praised tourism's direct benefits to locals. Bill Kramer questioned Naples Pier timeline; Miller noted permitting delays but hopeful for progress.

  Motion: Moved by Darren Palumbo; Seconded by Susan Becker
  Motion passed unanimously (8-0).

10. OLD BUSINESS

A. None

11. TEN MINUTE BREAK – None

12. AGENCY PARTNER REPORTS

A. Downs & St. Germain Research – July Tourism Metrics
Presenter: **James Brendle (via Zoom)**.

- July Performance: Visitation up 5.5%; visitor days up 8.8%; occupancy +2%; ADR -1.9%; RevPAR flat.
- FYTD: Visitation up ~1%; room nights up 3.1%; ADR down 4.5%; RevPAR down 3.4%.
- Visitor Origins: Midwest leading, followed by Northeast and Florida; Europe and Canada still soft.
- Advertising Recall: 35% (up from 25% prior year); social media strongest driver.
- Concerns: Declining group demand; 3-month booking forecasts weaker than prior year.

Discussion emphasized the need for sustained marketing to offset group travel declines.

B. Paradise Advertising Update
Presenter: **Ashley Cannon (via Zoom)**.

- Reviewed FY25 campaign wrap-up and FY26 plans.

- Highlighted Flagler Award for "Only Paradise Will Do."
- Showcased content series (beaches, luxury, athleisure, family, dark skies).
- Reported strong ROI: $20 revenue for every $1 ad spend.
- Previewed upcoming campaigns (Cars on Fifth, Dining, Stone Crab) and continued luxury media placements.

13. TOURISM STAFF REPORTS

A. Tourism staff reports were included in the packet. No further discussion.

14. COUNCIL MEMBER DISCUSSION

1) **Susan Becker:** Praised the Paradise Coast Sports Complex's hospitality industry event.
2) **Nancy Kearns:** Asked about supplemental budget and marketing "dark period." Mr. Tusa said updates would come at the next meeting.
3) **Michael McComas:** Spoke on Everglades City tourism challenges; noted community impact of large visitor influx.
4) **Bill Kramer:** Reflected on $43M TDT collections and the importance of tourism revenues reaching nonprofits like Blessings in a Backpack.
5) **Chris Hall (Chair):** Shared personal anecdotes on student nutrition programs; emphasized importance of supporting food security. Also clarified Naples Pier delays stem from permitting, not city or county failures

15. NEXT MEETING

A. The next TDC meeting will be held on December 12, 2025.
(October 21, 2025/canceled; November 18, 2025/canceled; December 16, 2025 moved to December 12, 2025).

16. ADJOURNED

There being no further business, the meeting was adjourned at 9:54 am

COLLIER COUNTY
TOURIST DEVELOPMENT COUNCIL

_____
Chairman Chris Hall

The Minutes were approved on _____, *(date of approval)*

as presented _____ or as amended _____.



NAPLES · MARCO ISLAND EVERGLADES℠

FLORIDA'S PARADISE COAST

Tourism Director Report
TDC, December 12, 2025

Tourism Director Report

TDT Collection Report

- Tourist Development Tax Revenue for October 2025 was $1,750,690 resulting in a year-to-date total of $49,827,537.

Tourism Highlights

- Occupancy increased 1.0% YOY to 48.3%; ADR increased 5.3% to $237.35, with RevPAR increasing 6.4% to $114.64.
- Zartico reports that out-of-state visitors accounted for 51% of trips yet generated 85% of total spending; Chicago was the top DMA for visitor spend.
- The CVB earned 25.3M media impressions valued at $113,693, with placements in HGTV, Travel + Leisure, USA Today, Condé Nast Traveler, and the Atlanta Journal-Constitution.
- The German market delivered 16 new media placements in October with a combined reach of 806,000 and media value of $58,000.
- UK & Ireland coverage from the June group media trip produced 4.7M total circulation in October, valued at $207,000.
- Group sales activity remained strong with 24 RFPs distributed, 285 client interactions, and 28 partner engagements; IMEX 2025 hosted 17,000+ attendees, the largest in event history.

Tourism Director Report

Tourism Highlights

- Specialty markets generated 20 new RFPs totaling 2,187 room nights and $1.74M in estimated economic impact, with two definites secured (90 room nights, $64,877 EIC).
- Global travel trade outreach included 40 meetings at Brand USA Travel Week Europe, reinforcing strong international recovery and launching Brand USA's new "America the Beautiful" campaign.
- Ikonik Destinations sent 32 RFP leads in October and hosted a successful IMEX buyer breakfast with 30 clients.
- Organic social media engagements increased, with Facebook up 39.9% (9,513 engagements) and Instagram up 91.6% (5,695 engagements), driven by Stone Crab Festival and JW Marriott reels.
- October email marketing achieved a 20% open rate across 55,997 leisure subscribers, with strong click-through on the Stone Crab Tasting Tour feature.
- The CVB executed extensive PR and partner engagement, including presentations to Marco Island Area Association of Realtors, Leadership Collier, the Chamber Leadership Collier Alumni Luncheon, and the Arlington Men's Coffee Club.

FISCAL YEAR (OCTOBER THRU SEPTEMBER) TOTALS

NOVEMBER 2025
FOR THE MONTH OF OCTOBER 2025 VENDOR TAX COLLECTIONS

BREAKDOWN	FISCAL 2024-2025	FISCAL 2025-2026	DIFFERENCE	%
OVERALL COLLECTIONS (includes minor categories not shown below)				
Current Month	$1,980,361	$1,750,690	- $229,671	- 11.59 %
Year to Date	$1,980,361	$1,750,690	- $229,671	- 11.59 %
HOTEL / MOTEL				
Current Month	$1,090,687	$1,029,928	- $60,759	- 5.57 %
Year to Date	$1,090,687	$1,029,928	- $60,759	- 5.57 %
REALTORS				
Current Month	$35,604	$22,719	- $12,885	- 36.19 %
Year to Date	$35,604	$22,719	- $12,885	- 36.19 %
INDIVIDUALS (APTS/CONDOS S F HOMES)				
Current Month	$833,102	$674,535	- $158,567	- 19.03 %
Year to Date	$833,102	$674,535	- $158,567	- 19.03 %

FY 25 TDT Collections Report

31-Oct-2025

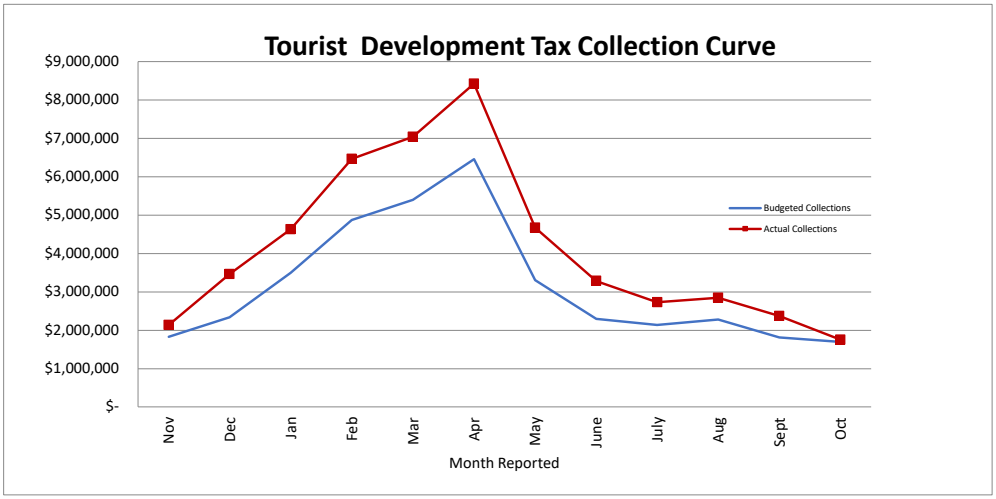
Fund Reporting	Fund	Adopted Budget	Updated Annual Forecast	Budgeted YTD	YTD Actual	Variance to Budgeted YTD
Beach Park Facilities	1100	1,357,700	1,783,853	1,357,700	1,784,210	426,510
TDC Promotion	1101	13,643,700	18,553,925	13,643,700	18,554,436	4,910,736
Non-County Museums	1103	724,300	951,642	724,300	949,591	225,291
TDC Admin	1104	-	-	0	-	-
Beach Renourishment	1105	14,782,800	19,422,806	14,782,800	19,421,139	4,638,339
Disaster Recovery	1106	-	-	0	-	-
County Museums	1107	2,000,000	2,000,000	2,000,000	2,000,000	0
TDC Capital	1108	5,415,500	7,115,310	5,415,500	7,118,161	1,702,661
	Gross Budget	**37,924,000**	**49,827,537**	**37,924,000**	**49,827,537**	**11,903,537**
	Less 5% Rev Res	(1,896,200)	31.39%		% Over/(Under) Bud	31.4%
	Net Budget	36,027,800				

Collections

Month Reported	Actual	Cum YTD	% Budget Collected to Date	% Variance FY24 Collections	% Variance FY23 Collections	% Variance FY22 Collections
Nov	2,137,562	2,137,562	5.64%	-16.72%	-9.20%	-5.03%
Dec	3,465,253	5,602,815	14.77%	5.83%	30.93%	19.12%
Jan	4,632,754	10,235,570	26.99%	5.02%	24.82%	3.04%
Feb	6,466,174	16,701,744	44.04%	-1.10%	19.50%	8.28%
Mar	7,042,625	23,744,369	62.61%	2.54%	10.66%	8.83%
Apr	8,422,508	32,166,877	84.82%	3.48%	15.42%	0.80%
May	4,675,081	36,841,958	97.15%	9.54%	15.55%	-3.29%
June	3,285,486	40,127,443	105.81%	4.51%	20.07%	6.22%
July	2,729,036	42,856,479	113.01%	6.66%	11.97%	3.12%
Aug	2,849,506	45,705,985	120.52%	7.46%	3.06%	10.51%
Sept	2,370,861	48,076,847	126.77%	5.99%	6.17%	18.24%
Oct	1,750,690	49,827,537	131.39%	-11.60%	-16.85%	-5.84%
Total	**49,827,537**	**49,827,537**	**YTD**	**6.80%**	**18.63%**	**9.24%**
				49,827,537		

Budget Comparison

	5 Yr History-Cum	5 Yr History-Monthly	Budgeted Collections	Actual Collections	Budget to Actual Variance	Updated Forecast
Nov	4.8%	4.8%	1,827,211	2,137,562	310,352	2,137,562
Dec	11.0%	6.2%	2,338,559	3,465,253	1,126,694	3,465,253
Jan	20.2%	9.2%	3,502,227	4,632,754	1,130,527	4,632,754
Feb	33.1%	12.8%	4,869,752	6,466,174	1,596,422	6,466,174
Mar	47.3%	14.2%	5,397,019	7,042,625	1,645,606	7,042,625
Apr	64.3%	17.0%	6,460,316	8,422,508	1,962,192	8,422,508
May	73.0%	8.7%	3,303,306	4,675,081	1,371,774	4,675,081
June	79.1%	6.1%	2,299,023	3,285,486	986,462	3,285,486
July	84.7%	5.6%	2,134,934	2,729,036	594,102	2,729,036
Aug	90.7%	6.0%	2,277,930	2,849,506	571,576	2,849,506
Sept	95.5%	4.8%	1,816,973	2,370,861	553,888	2,370,861
Oct	100.0%	4.5%	1,696,749	1,750,690	53,941	1,750,690
Total	100.0%	100.0%	**37,924,000**	**49,827,537**	**11,903,537**	**49,827,537**
			% over/(under) budget		31.4%	31.39%



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Disaster Recovery	1106	-	-	0	-	-
County Museums	1107	2,000,000	2,000,000	2,000,000	2,000,000	0
TDC Capital	1108	5,415,500	7,115,310	5,415,500	7,118,161	1,702,661
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				49,827,537		

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Feb	33.1%	12.8%	4,869,752	6,466,174	1,596,422	6,466,174
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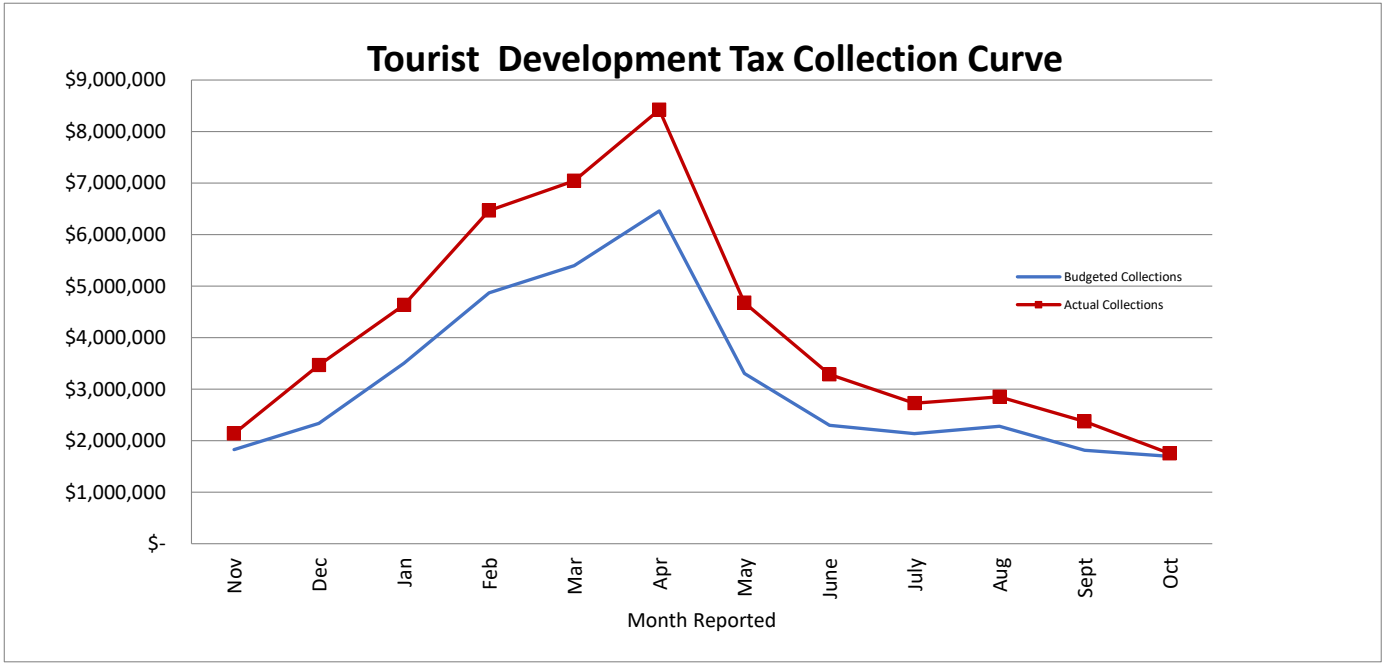
Apr	64.3%	17.0%	6,460,316	8,422,508	1,962,192	8,422,508
May	73.0%	8.7%	3,303,306	4,675,081	1,371,774	4,675,081
June	79.1%	6.1%	2,299,023	3,285,486	986,462	3,285,486
July	84.7%	5.6%	2,134,934	2,729,036	594,102	2,729,036
Aug	90.7%	6.0%	2,277,930	2,849,506	571,576	2,849,506
Sept	95.5%	4.8%	1,816,973	2,370,861	553,888	2,370,861
Oct	100.0%	4.5%	1,696,749	1,750,690	53,941	1,750,690
Total	100.0%	100.0%	**37,924,000**	**49,827,537**	**11,903,537**	**49,827,537**
			% over/(under) budget		31.4%	31.39%



Collier County Tax Collector - Tourist BOCC - Zone - TAX-53800 Report (Detailed Distribution Data) - Run 11/05/2025 09:14AM

Tourist Zone	Allocation Date (Year)	Allocation Date (Month)	Allocated	Distributed Amt	Distribution Category	Allocation Date
-- Any --		*-- October --*			*-- Tourist Tax --*	*-- 10/01/2025-10/31/202 5 --*
CC - Collier County - Unincorporated	**2025**	**October**	**1,122,477.92**	**1,122,477.92**	**Tourist Tax**	
EC - Everglades City	**2025**	**October**	**4,597.14**	**4,597.14**	**Tourist Tax**	
IM - Immokalee	**2025**	**October**	**2,492.73**	**2,492.73**	**Tourist Tax**	
MI - Marco Island	**2025**	**October**	**413,761.85**	**413,761.85**	**Tourist Tax**	
NA - Naples	**2025**	**October**	**207,360.30**	**207,360.30**	**Tourist Tax**	
CC - Collier County - Unincorporated, EC - Everglades City, IM - Immokalee, MI - Marco Island, NA - Naples	***2025***	***October***	***1,750,689.94***	***1,750,689.94***	***Tourist Tax***	***Grand Total***

Collier County Tax Collector - Tourist BOCC - Zone - TAX-53800 Report (Detailed Distribution Data) - Run 11/05/2025 09:31AM

Tourist Zone	Allocation Date (Year)	Allocation Date (Month)	Allocated	Distributed Amt	Distribution Category	Allocation Date
-- Any --		*-- Any --*			*-- Tourist Tax --*	*-- 10/01/2025-10/31/202 5 --*
CC - Collier County - Unincorporated	**2025**	**October**	**1,122,477.92**	**1,122,477.92**	**Tourist Tax**	
EC - Everglades City	**2025**	**October**	**4,597.14**	**4,597.14**	**Tourist Tax**	
IM - Immokalee	**2025**	**October**	**2,492.73**	**2,492.73**	**Tourist Tax**	
MI - Marco Island	**2025**	**October**	**413,761.85**	**413,761.85**	**Tourist Tax**	
NA - Naples	**2025**	**October**	**207,360.30**	**207,360.30**	**Tourist Tax**	
CC - Collier County - Unincorporated, EC - Everglades City, IM - Immokalee, MI - Marco Island, NA - Naples	***2025***	***October***	***1,750,689.94***	***1,750,689.94***	***Tourist Tax***	***Grand Total***

Collier County Tax Collector - Tourist BOCC - Rental Type Report (Detailed Distribution Data) - Run 11/05/2025 09:11AM

Tourist Rental Type	Allocation Date (Month)	Allocated	Distributed Amt	Distribution Category	Allocation Date
-- Any --	*-- Any of: October --*			*-- Tourist Tax --*	*-- 10/01/2025-10/31/202 5 --*
02 - CONDOMINIUM	**October**	**50,122.34**	**50,122.34**	**Tourist Tax**	
05 - HOTEL	**October**	**1,029,927.94**	**1,029,927.94**	**Tourist Tax**	
06 - INTERVAL OWNER	**October**	**19,518.77**	**19,518.77**	**Tourist Tax**	
07 - MOBILE HM PARK	**October**	**591.64**	**591.64**	**Tourist Tax**	
09 - PROPERTY MANAGEMENT COMPANY	**October**	**22,719.26**	**22,719.26**	**Tourist Tax**	
12 - RV PARK /CAMPGD	**October**	**3,397.58**	**3,397.58**	**Tourist Tax**	
13 - SINGLE FAMILY	**October**	**624,412.41**	**624,412.41**	**Tourist Tax**	
02 - CONDOMINIUM, 05 - HOTEL, 06 - INTERVAL OWNER, 07 - MOBILE HM PARK, 09 - PROPERTY MANAGEMENT COMPANY, 12 - RV PARK /CAMPGD, 13 - SINGLE FAMILY	***October***	***1,750,689.94***	***1,750,689.94***	***Tourist Tax***	***Grand Total***

Collier County Tax Collector - Tourist BOCC - Rental Type Report (Detailed Distribution Data) - Run 11/05/2025 09:28AM

Tourist Rental Type	Allocation Date (Month)	Allocated	Distributed Amt	Distribution Category	Allocation Date
-- Any --	*-- Any of: --*			*-- Tourist Tax --*	*-- 10/01/2025-10/31/202 5 --*
02 - CONDOMINIUM	**October**	**50,122.34**	**50,122.34**	**Tourist Tax**	
05 - HOTEL	**October**	**1,029,927.94**	**1,029,927.94**	**Tourist Tax**	
06 - INTERVAL OWNER	**October**	**19,518.77**	**19,518.77**	**Tourist Tax**	
07 - MOBILE HM PARK	**October**	**591.64**	**591.64**	**Tourist Tax**	
09 - PROPERTY MANAGEMENT COMPANY	**October**	**22,719.26**	**22,719.26**	**Tourist Tax**	
12 - RV PARK /CAMPGD	**October**	**3,397.58**	**3,397.58**	**Tourist Tax**	
13 - SINGLE FAMILY	**October**	**624,412.41**	**624,412.41**	**Tourist Tax**	
02 - CONDOMINIUM, 05 - HOTEL, 06 - INTERVAL OWNER, 07 - MOBILE HM PARK, 09 - PROPERTY MANAGEMENT COMPANY, 12 - RV PARK /CAMPGD, 13 - SINGLE FAMILY	***October***	***1,750,689.94***	***1,750,689.94***	***Tourist Tax***	***Grand Total***

Executive Summary

Recommendation to execute a Work Order with Humiston & Moore Engineers to provide professional engineering services for the State required Annual Monitoring of Collier County Beaches and Inlets for 2026 under Contract No. 18-7432-CZ for time and material not to exceed $161,547, and make a finding that this item promotes tourism (Fund 1105, Project No. 90536).

OBJECTIVE: To move forward with the annual required beach and inlet monitoring surveys and reports for Collier County Beaches and Inlets for 2026.

CONSIDERATIONS: The Coastal Zone Management (CZM) Section is tasked with the maintenance and monitoring of over thirty (30) miles of coastline, beaches, estuaries, channels, and bays. CZM has specific goals, objectives, and criteria to meet, as identified in the Collier County Growth Management Plan Land Development Code and the Codes of Laws and Ordinances regarding the county's coastal aquatic resources. To meet these goals and objectives, CZM has been charged with a variety of programs, including the implementation of beach renourishment and dredging projects, as well as related operations required to maintain the health, aesthetics, and safety of the county's coastal waterways and communities.

Yearly physical monitoring of the beaches and inlets is required by FDEP permit. Monitoring consists of field survey measurements of the above and below water topography of the beach, generally along its entire length, and to a width from the dune line to over 1,000 feet offshore. The results of this report are used to evaluate, recommend, and prioritize annual beach segment renourishment. Humiston & Moore provided a proposal dated August 15, 2025, in the amount of $161,547 to perform the monitoring services through a Work Order under library contract 18-7432-CZ.

This item is consistent with the Quality of Place Objectives of the County's Strategic Plan.

ADVISORY COMMITTEE RECOMMENDATIONS: This item was approved by the Coastal Advisory Committee (CAC) on November 13, 2025, and will be presented to the Tourist Development Council (TDC) on December 12, 2025.

FISCAL IMPACT: Funding in the amount of $161,547 is available within Tourist Development Tax Beach Renourishment Fund (1105), Project 90536 (County/Naples Beach Monitoring).

LEGAL CONSIDERATIONS: This item is approved as to form and legality and requires major vote for approval. - CMG

RECOMMENDATIONS: To execute a Work Order with Humiston & Moore Engineers to provide professional engineering services for the State required Annual Monitoring of Collier County Beaches and Inlets for 2026 under Contract No. 18-7432-CZ for time and material not to exceed $161,547, and make a finding that this item promotes tourism (Fund 1105, Project No. 90536).

PREPARED BY: Andrew Miller, P.E., Coastal Zone Management, Capital Project Planning, Impact Fees, and Program Management Division

ATTACHMENTS:

1. STAMPED- W.O 2026 Annual Monitoring

WORK ORDER/PURCHASE ORDER
Contract 18-7432-CZ "Professional Services Library – Coastal Engineering Category"
Contract Expiration Date: March 9, 2026

This Work Order is for professional Engineering Services for work known as:

Project Name: Collier County Beaches and Inlets Annual Monitoring for 2026
Project No: 90536.1

The work is specified in the proposal dated August 15, 2025, which is attached hereto and made a part of this Work Order. In accordance with Terms and Conditions of the Agreement referenced above, this Work Order/Purchase Order is assigned to: Humiston & Moore Engineers, P.A.

Scope of Work: As detailed in the attached proposal and the following:

* Task 1a Collier Beach Data Collection R-22 to R-84
* Task 1b Collier Beach Data Collection R-85 to R-89
* Task 1c Collier Beach Initial and Final Monitoring Report
* Task 2a Wiggins Pass Data Collection
* Task 2b Wiggins Pass Final Monitoring Report
* Task 3a Doctors Pass Data Collection
* Task 3b Doctors Pass Final Monitoring Report
* Task 4a South Marco Beach Monitoring Survey
* Task 4b South Marco Beach Initial & Final Monitoring Report
* Task 5 2026 Aerial Image Book

Schedule of Work: Complete work within 270 days from the date of the Notice to Proceed which is accompanying this Work Order. The Consultant agrees that any Work Order that extends beyond the expiration date of Agreement # 18-7432-CZ will survive and remain subject to the terms and conditions of that Agreement until the completion or termination of this Work Order.

Compensation: In accordance with the Agreement referenced above, the County will compensate the Firm in accordance with following method(s): ☒Negotiated Lump Sum (NLS) ☐Lump Sum Plus Reimbursable Costs (LS+RC) ☐Time & Material (T&M) (established hourly rate – Schedule A) ☐ Cost Plus Fixed Fee (CPFF), as provided in the attached proposal.

Task 1a	$ 37,960.00 (LS)
Task 1b	$ 2,950.00 (LS)
Task 1c	$ 26,528.00 (LS)
Task 2a	$ 32,515.00 (LS)
Task 2b	$ 12,688.00 (LS)
Task 3a	$ 12,850.00 (LS)
Task 3b	$ 9,318.00 (LS)
Task 4a	$ 15,530.00 (LS)
Task 4b	$ 7,605.00 (LS)
Task 5	$ 3,603.00 (LS)
TOTAL FEE	**$ 161,547.00** (LS)

CAO

PREPARED BY: MillerAndrew Digitally signed by MillerAndrew Date: 2025.08.27 09:32:51 -04'00' _____ _____

Andrew Miller, Manager Date

APPROVED BY: AhmadJay Digitally signed by AhmadJay Date: 2025.08.28 07:30:30 -04'00' _____ _____

Jay Ahmad, Division Director Date

APPROVED BY: MillerMarshal Digitally signed by MillerMarshal Date: 2025.09.11 12:44:37 -04'00' _____ _____

Trinity Scott, Department Head Date

By the signature below, the Firm (including employees, officers and/or agents) certifies, and hereby discloses, that, to the best of their knowledge and belief, all relevant facts concerning past, present, or currently planned interest or activity (financial, contractual, organizational, or otherwise) which relates to the proposed work; and bear on whether the Firm has a potential conflict have been fully disclosed.

Additionally, the Firm agrees to notify the Procurement Director, in writing within 48 hours of learning of any actual or potential conflict of interest that arises during the Work Order and/or project duration.

ACCEPTED BY: Humiston & Moore Engineers

Brett D. Moore Digitally signed by Brett D. Moore Date: 2025.09.10 09:15:42 -04'00' _____ _____

Brett Moore, President Date

(Remainder of page intentionally left blank)

CAO

IN WITNESS WHEREOF, the parties hereto, have each, respectively, by an authorized person or agent, have executed this Work Order on the date and year first written below.

ATTEST:
, Clerk of Courts

By: _____

Dated: _____
(SEAL)

Approved as to Form and Legality:

CMG

_____
Assistant County Attorney

_____
Print Name

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

By: _____
Burt L Saunders, Chairman

CAO

HUMISTON & MOORE ENGINEERS
COASTAL ENGINEERING DESIGN AND PERMITTING

5679 STRAND COURT
NAPLES, FLORIDA 34110
FAX:239 594 2025
PHONE: 239 594 2021

August 15, 2025
(Proposal valid for 120 days.)

Andrew Miller, Principal Project Manager
Coastal Zone Management (CZM)
Collier County Government
2685 South Horseshoe Drive Unit 103
Naples, FL 34104

Re: Proposal for Collier County Beaches and Inlets Annual Monitoring for 2026
Collier County Contract 18-7432-CZ; HM File No 29-018.2026 Beach-Monitor

Dear Andy:

Enclosed is a proposal for the Collier County Beaches, Wiggins Pass Inlet, Doctors Pass Inlet, South Marco Beach, monitoring reports (includes survey) for 2026. The completion date for all work is estimated to be 270 days from the date of the Notice to Proceed. Rectified aerial images acquired for 2026, provided by the Collier County Property Appraiser's Office, are to be submitted to the Department of Environmental Protection (DEP) by Humiston and Moore Engineers (HM) as part of the work described below for all projects and an aerial image book provided to CZM in pdf format for online posting.

The monitoring for Doctor Pass Erosion Control Structures and Central Marco Beach is complete. These items are not included in the scope of work for the 2026 monitoring.

Note, the dates shown reflect an anticipated date for the survey and report. These anticipated dates are dependent upon the authorization date, completion of projects under construction, release of the rectified aerial images, and other unforeseen conditions such as weather.

Task 1 Collier Beach- Initial and Final Monitoring Report

Conduct the annual monitoring survey for Collier Beach Nourishment Project consistent with the monitoring plan approved by the DEP. This scope of work consists of DEP monuments R-17 to R-84 and R-58A. (Note: R-17 to R-21 will be surveyed as park of Task 2.)

- Survey is scheduled to be completed by January 31, 2026 pending unforeseen conditions such as poor weather conditions and completion of any projects under construction.
- An initial monitoring summary of the analysis will be submitted to CZM 30 days after the completion of the survey.
- A Final Monitoring Report will be submitted to DEP & CZM 90 days after the completion of the survey.

The initial monitoring summary includes beach profiles, shoreline and volume change from the previous monitoring survey, as well as from the most recent nourishment project, beach width and comparison to the *Design Standard*. The Final Monitoring Report will include the same

CAO

information contained in the initial monitoring summary as well as other information in compliance with the DEP physical monitoring requirements and applicable recommendations.

Task 1a. Collier Beach Data Collection R-22 to R-84 (SDI)..... $ 37,960 LS

Task 1b. Collier Beach Data Collection R-85 to R-89 (SDI) ..... $ 2,950 LS

Task 1c Collier Beach Final Monitoring Report (H&M)..... $ 26,528 LS

Total Task 1 Subtotal (SDI + H&M)..... $ 67,438

Deliverable: An electronic copy of the Initial Monitoring Report and Final Monitoring Report.

Task 2 Wiggins Pass – Initial and Final Monitoring Report

Conduct the annual monitoring survey for the Wiggins Pass Navigation Channel Expansion and Maintenance Dredging Project consistent with the monitoring plan approved by DEP. This scope of work consists of FDEP monuments R-10 to R-22 including half monuments, the MHWL from R-17 NE for a minimum of 1500 feet. Stations -2+00 to 15+00 (from R-15 to R-18.5) and the navigation channel with grid lines 100 feet apart (C-3 thru C-34, CN-35 thru CN37).

- Survey is scheduled to be completed by February 28, 2026 pending unforeseen conditions such as poor weather conditions and completion of any projects under construction.
- An initial monitoring summary of the analysis will be submitted to CZM 30 days after the completion of the survey.
- A Final Monitoring Report will be submitted to CZM and DEP 90 days after the completion of the survey.

The initial monitoring summary includes inlet and beach profiles, shoreline and volume change from the previous monitoring survey and previous dredging project, beach width and comparison to the *Design Standard* if applicable. The Final Monitoring Report will include the same information contained in the initial monitoring summary as well as other information in compliance with the DEP physical monitoring requirements and applicable recommendations.

Task 2a. Wiggins Pass Data Collection (SDI) ..... $ 32,515 LS

Task 2b Wiggins Pass Final Monitoring Report (H&M).. $ 12,688 LS

Total Task 2 Subtotal (SDI + H&M)..... $ 45,203

Deliverable: An electronic copy of the Initial Monitoring Report and Final Monitoring Report.

Task 3 Doctors Pass – Initial and Final Monitoring Report

Conduct the annual monitoring survey for Doctors Pass Maintenance Dredging Project consistent with the monitoring plan approved by the DEP. This scope of work consists of 77 Dredge Template Profiles.

- Survey is scheduled to be completed by February 28, 2026 pending unforeseen conditions such as poor weather conditions and completion of any projects under construction.
- An initial monitoring summary of the analysis will be submitted to CZM 30 days after the completion of the survey.

CAO

- A Final Monitoring Report will be submitted to CZM and DEP 90 days after the completion of the survey.

The initial monitoring summary includes inlet profiles, volume change from the previous monitoring survey and previous dredging project. The Final Monitoring Report will include the same information contained in the initial monitoring summary as well as other information in compliance with the DEP physical monitoring requirements and applicable recommendations.

Task 3a. Doctors Pass Data Collection (SDI) ..... $ 12,850 LS

Task 3b Doctors Pass Final Monitoring Report (H&M)..... $ 9,318 LS

Total Task 3 Subtotal (SDI + H&M)..... $ 22,168

Deliverable: One electronic copy of the Initial Monitoring Report and Final Monitoring Report.

Task 4 South Marco Beach- Initial and Final Monitoring Report

Conduct the annual monitoring survey for South Marco Beach Nourishment Project consistent with the monitoring plan approved by the DEP. This scope of work consists of DEP monuments R-139 to R-148, G-1 thru G-5, and K-1 thru K-2. This survey scope does include the Caxambas Pass borrow area.

- Survey is scheduled to be completed by March 31, 2026 pending unforeseen conditions such as poor weather conditions and completion of any projects under construction.
- An initial shoreline/volume change summary will be submitted to CZM 30 days after the completion of the survey.
- A Final Monitoring Report will be submitted to CZM and DEP 90 days after the completion of the survey.

Task 4a. South Marco Beach Monitoring Survey (SDI)..... .....$ 15,530 LS

Task 4b South Marco Beach Initial and Final Monitoring Report (H&M)..... $ 7,605 LS

Total Task 4 Subtotal (SDI + H&M)..... .....$ 23,135

Deliverable: One electronic copy of the Initial Monitoring Report and Final Monitoring Report.

Task 5 2026 Aerial Image Book

Prepare an updated aerial image book for the Collier County Beaches ranging from DEP reference monument R-1 south to R-89 and from Hideaway Beach reference monument H-16 including the entrance to Collier Bay south to DEP reference monument R-148 including Caxambas Pass. The monument locations will be overlaid along with the names of existing structures as noted in the 2025 book. The rectified images will be the latest available from the County Appraiser's Office. The ECL, latest MHWL, and vegetation line will be shown along with the distance from each to the 2003 Baseline.

CAO

Task 5. Aerial Image Book (H&M).....$ 3,603 LS

Deliverable: An electronic copy of the final Aerial Image Book.

Total (SDI + H&M) ..... $ 161,547 Tasks 1 thru 5

Tasks will be billed on a time and materials basis, unless otherwise noted. The budgets for these tasks may therefore be considered as not-to-exceed amounts with the understanding that in the event regulatory requirements or requests from County staff result in Additional Services exceeding the estimated budget amounts, a budget amendment will be requested.

Please call if you have any questions.

Sincerely yours,

HUMISTON & MOORE ENGINEERS



Brett D. Moore, P.E.
President

CAO

Estimate

	Task 1 Collier Beach - Initial & Final Monitoring Report						
	Task 1a & 1 b Data collec	SDI Sea Diversified				40,910.00	
							40,910.00 (LS)
	Task 1c Final Report	HM (LS)					
		RATE/UNIT		HOURS/QTY	COST	MARKUP	AMOUNT
PRN2	Principal		231	20			4,620.00
SDS	Engineer		130	80			10,400.00
SIN	Scientist/Geologist		115	40			4,600.00
SRT	Senior Technician		103	30			3,090.00
TEC	Technician		83	46			3,818.00
							26,528.00 (LS)
						Total:	**67,438.00**
	Task 2 Wiggins Pass - Initial & Final Monitoring Report						
	Task 2a Data collection	SDI Sea Diversified				32,515.00	
							32,515.00 (LS)
	Task 2b Final Report	HM (LS)				-	
		RATE/UNIT		HOURS/QTY	COST	MARKUP	AMOUNT
PRN2	Principal		231	8			1,848.00
SDS	Engineer		130	40			5,200.00
SIN	Scientist/Geologist		115	20			2,300.00
SRT	Senior Technician		103	21			2,163.00
CAD	Cadd Technician		107	11			1,177.00
							12,688.00 (LS)
						TOTAL	**45,203.00**
	Task 3 Doctors Pass - Initial & Final Monitoring Report						
	3a Data Collection	SDI Sea Diversified				12,850.00	
							12,850.00 (LS)
	3b Final Report	HM (LS)				-	
		RATE/UNIT		HOURS/QTY	COST	MARKUP	AMOUNT
PRN2	Principal		231	8			1,848.00
SDS	Engineer		130	53.5			6,955.00
SRT	Senior Technician		103	5			515.00
							9,318.00 (LS)
						TOTAL	**22,168.00**
	Task 4 South Marco Final Monitoring Report						
	5a Data Collection	SDI Sea Diversified				15,530.00	
							15,530.00 (LS)
	5b Final Report	HM(LS)				-	
		RATE/UNIT		HOURS/QTY	COST	MARKUP	AMOUNT
PRN2	Principal		231	9			2,079.00
SDS	Engineer		130	33			4,290.00
SRT	Senior Technician		103	12			1,236.00
							7,605.00 (LS)
						Total:	**23,135.00**
	Task 5 2024 Aerial Image Book						
		HM (LS)					
		RATE/UNIT		HOURS/QTY	COST	MARKUP	AMOUNT
PRN2	Principal		231	3			693.00
SDS	Engineer		130	16			2,080.00
TEC	Technician		83	10			830.00
						Total:	3,603.00 (LS)
						Total:	**$161,547.00**

CAO

Sea Diversified, Inc.
160 Congress Park Drive, #114
Delray Beach, Florida 33445
Phone: 561-243-4920
www.seadiversified.com

August 11, 2025
(Previous 8.8.25)

Mr. Steve Foge, P.E.
Humiston & Moore Engineers
5679 Strand Court, Suite 110
Naples, Florida 34110

Sent via electronic mail 08/11/2025
(SF@HumistonandMoore.com)

Re: Proposal / Agreement for Professional Services
Collier County 2026 Physical Monitoring Survey
Collier Beach, Wiggins Pass, Doctors Pass & Central Marco
Collier County, Florida
Sea Diversified P.N. 25-3099

Dear Mr. Foge:

In accordance with your request, Sea Diversified, Inc. (SDI) is pleased to submit the following proposal for professional services. The scope of work shall include bathymetric data collection and onshore/offshore beach profile surveys along Collier Beach, South Marco Island, Wiggins Pass and Doctors Pass. Similar to the 2025 monitioring survey, the 2026 monitoring survey effort shall encompass the following:

Task 1a: **Collier Beach & Offshore Profiles**
- Beach profiles at R23 to R84 (62 profiles) and R58A, totaling 63 profiles

Task 1b: **Collier Beach & Offshore Profiles**
- Beach profiles at R85 to R89, totaling 5 profiles

Task 2a: **Wiggins Pass Bathymetry and Beach Profiles**
- Beach profiles at R-10 to R-22, including intermediate profiles (R-10.5, R-11.5, R-12.5, R-13.5, R-14.5, R-15.5, R-17.5, R-18.5, R-19.5, R-20.5, R-21.5), totaling 24 transects
- MHWL from R-17 to the NE 1,500 feet on the south side of the inlet
- Entrance channel, Stations -2+00 to 15+00 (R-15 to R-18.5), totaling 18 transects
- Internal channels C-3 to C-34, CN-35, CN-36 and CN-37, totaling 35 transects

Task 3a: **Doctors Pass Bathymetry** - All inlet stations (77 transects)

Task 4a: **South Marco Island Beach & Offshore Profiles with Borrow Area**
Beach profiles at U-139 to R-148, G-1 to G-5, and K-1 to K-2, totaling 17 profiles
Note: Borrow area survey to match scope of survey by SDI in 2022

General:
SDI shall provide supervision, field / office support staff and equipment to perform the scope of work described, herewith. All work shall be conducted to the highest level of industry standards and under the responsible charge of a Professional Surveyor and Mapper registered in the State of Florida. All work shall meet or exceed the Standards of Practice (Standards) set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes, and in compliance with the Florida Department of Environmental Protection (FDEP) Bureau of Beaches and Coastal Systems Monitoring Standards for Beach Erosion Control Projects, Sections 01000 and 01100 (Updated October 2014). If time permits, deviations from the scope of work shall be addressed via formal approved addendum to the executed Agreement for Professional Services.

Horizontal and Vertical Data:

Horizontal Datum:	Feet, relative to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83)
Vertical Datum:	Feet, relative to the North American Vertical Datum of 1988 (NAVD88)

Horizontal / Vertical Control Verification
SDI will verify the horizontal and vertical position of all found and used monuments for the survey. Horizontal and vertical positions will be verified via Real-Time Kinematic GPS procedures. In the event vertical obstructions prohibit the use of GPS, conventional methodologies will be employed.

Temporary control points (TBM's) will be set in the event a monument cannot be readily found. As practical, the TBM will be set at the reference monument location. If the specified location is not practical, the TBM will be set at a more suitable location either landward or seaward along the specified profile azimuth. H&M shall be notified of any missing monuments and shall be provided with the horizontal and vertical position of all TBM's.

Onshore Profile Data Collection - Topographic
Onshore profile data collection shall extend from the FDEP profile control monument seaward to approximate wading depth or as required to overlap the offshore profile data a minimum distance of fifty (50) feet. Profile data collection shall extend landward to the seawalls or fifty (50) feet landward of the five-foot (+5.0') NAVD88 contour line and shall include location of the seaward vegetation line.

In the event there is a physical barrier on line between the beach and the monument, every reasonable attempt shall be made to extend the survey beyond the barrier to the reference monument position. It is understood that certain physical barriers may be considered impassible such as large buildings, private residences with difficult access, waterbodies, mangroves or other heavy vegetation requiring line clearing. At the discretion of the surveyor, data collection will be terminated at the first physical barrier if deemed impassible using practical means of extending the survey landward. Profiles terminated due to impassible barriers will be noted in the field books.

Profile data will be collected using either conventional differential leveling or Real-time Kinematic Differential Global Positioning techniques. Data points will be collected at a maximum interval of twenty-five (25) feet and at all grade breaks (exceeding one-foot) and material changes along the profile. In the event the profile control monument is located more than three hundred (300) feet landward of the vegetation line, data points shall be extended to intervals of one hundred (100) feet from two hundred (200) feet landward of the approximate vegetation line to the monument location. The reference monument shall be recorded as range 0.0 along the profile with positive ranges extending seaward of the monument and negative ranges extending landward of the monument.

Offshore Profile Data Collection - Bathymetric
Bathymetric profile data shall be collected as close to high tide as practical and shall extend landward to a depth that overlaps the onshore portion of the survey a minimum distance of fifty (50) feet. Bathymetric profile data collection shall extend seaward to the negative thirteen (–13) feet NGVD29 contour (approximately -14.5' NAVD88). Bathymetric data collection shall occur as close to the time of the onshore topographic survey as practical, which shall not exceed seven (7) days of time difference between the two (2) survey events. Maximum wave height during the course of bathymetric data collection shall be three (3) feet.

Bathymetric data shall be collected using an automated hydrographic system comprised of a survey launch equipped with a marine grade sounder, differential global positioning system and computer-based navigation / data collection system, and when deemed necessary may be interfaced with a DMS-05 Motion Sensor System.

The motion sensor will be employed as necessary to reduce the effects of vessel heave, pitch and roll during the course of data collection. The sounder shall be calibrated via bar checks prior to the start of the survey. Prior to the start of the survey a tide staff or gauge will be established in proximity to the project for recording water levels during the course of the data collection activities. The tide staff or gauge will be set relative to published control in the vicinity of the project.

Digital Ground Photography

During the course of field data collection, digital photographs shall be taken at approximate mid-beach along each profile line. Three (3) photographs shall be captured, one each shore-parallel north and south of the profile and one towards the monument location. An additional photograph of the monument or TBM shall be taken with sufficient clarity to read the monument stamping. Digital images shall be provided to H&M in .jpg format at a minimum 640 x 480 resolution.

Data Processing and Final Deliverables

Upon completion of field survey activities, data will be edited and reduced to the project datum and translated to an x,y,z, ASCII format for submittal to H&M. H&M will be provided the following deliverables:

1. Survey report certified by a Professional Surveyor and Mapper.
2. Description of all monuments and TBM's used for the survey, including identification, stamping, coordinates, elevations and profile azimuths. Control description shall be provided in both hardcopy and digital formats (ASCII and Excel), as applicable.
3. Bathymetric data and / or profile data in ASCII x,y,z format
4. Digital photographs in .jpg format with appropriate labeling
5. Metadata files

Cost Breakdown:

Task 1a:	$ 37,960.00
Task 1b:	$ 2,950.00
Task 2a:	$ 32,515.00
Task 3a:	$ 12,850.00
Task 4a:	$ 15,530.00
Total:	**$101,805.00**

Should you have questions or require additional information please do not hesitate to contact us at your convenience. We appreciate this opportunity to assist you with this project and look forward to hearing from you soon.

Best Regards,

William T. Sadler Jr., P.E., P.S.M.
President, Sea Diversified, Inc.

Approved this _____ day of _____, 2025

_____
Mr. Steve Foge, P.E. or Authorized
Humiston & Moore Engineers Representative

* * * * *

SCHEDULE B-ATTACHMENT 1

RATE SCHEDULE

Title	Hourly Rate
Principal	$231
Senior Project Manager	$203
Project Manager	$160
Senior Engineer	$177
Engineer	$130
Senior Inspector	$126
Inspector	$93
Senior Planner	$150
Planner	$120
Senior Designer	$140
Designer	$105
Environmental Specialist	$120
Senior Environmental Specialist	$167
Scientist/Geologist	$115
Senior Scientist/Geologist	$153
Marine Biologist/Hydrogeologist	$120
Senior Marine Biologist/Hydrogeologist	$145
Senior GIS Specialist	$155
GIS Specialist	$115
Clerical/Administrative	$73
Senior Technician	$103
Technician	$83
Surveyor and Mapper	$125
CADD Technician	$107
Survey Crew - 2 man	$145
Survey Crew - 3 man	$180
Survey Crew - 4 man	$215
Senior Architect	$160
Architect	$125

The above hourly rates are applicable to Time and Materials task(s) only. The above list may not be all inclusive. Hourly rates for additional categories required to provide particular project services shall be mutually agreed upon by the County and firm, in writing, on a project by project basis, as needed, and will be set forth in the Work Order agreed upon by the parties.

☒ **Grant Funded**: The above rates are for purposes of providing estimate(s), as required by the grantor agency.

* * * * *.

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Collier County Beaches and Inlets Annual Monitoring 2026 Contract 18-7432-CZ
Project No. 90536

	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26
Task 1 Collier Beach- Data Collection, Initial and Final Monitoring Report												
Task 2 Wiggins Pass - Data Collection, Initial and Final Monitoring Report												
Task 3 Doctors Pass - Data Collection, Initial and Final Monitoring Report												
Task 4 South Marco Beach- Data Collection & Final Monitoring Report												
Task 5 2026 Aerial Image Book												

CAO

Collier County

Direct Select Form

Please be sure to attach the fully approved form to the requisition in SAP. Direct Selects are valid for 90 days.

The approval of this Direct Select is not for services rendered under a prior Purchase Order for the continuation of previous work assignment.

Request Date	Contract No.	Proposal Cost Estimate	Construction Cost Estimate
8/13/2025	18-7432-CZ	$165,000	N/A

Requested By (*Use name as it appears in Outlook*): Andrew Miller

Division: Coastal Zone Mgmt

Library Category: Coastal Engineerin

Vendor Name: Humiston & Moore Engineers, P.A.

Work Assignment Title: 2026 Collier County Beaches and Inlets Annual Monitoring

Description of Requested Services:

Permit-required annual beach and inlet monitoring and report.

Justification (*Select all that apply and explain below*):

- ☑ Past experience with project — Previous PO #: see below
- ☐ *Continuation of previous work assignment — Previous PO #: _____
- ☐ Unique qualifications
- ☐ Other

Comments / Explanation of Direct Select:

H&M performs this work annually and is best suited to continue based on their experience and their knowledge of the County's requirements.

2024 - PO 4500229367
2023 - PO 4500225080
2022 - PO 4500215649

This request is in compliance with Fla. Stat. § 287.055, the Consultants' Competitive Negotiation Act, including the thresholds for study activity and estimated construction cost.

Requestor: Andrew Miller	**Signature:** MillerAndrew Digitally signed by MillerAndrew Date: 2025.08.13 13:22:46 -04'00'	**Date:**
Division Director: Jay Ahmad	**Signature:** AhmadJay Digitally signed by AhmadJay Date: 2025.08.14 07:35:37 -04'00'	**Date:**

Procurement Use Only

Procurement Director/Designee: Sandra Srnka	**Signature:** SrnkaSandra Digitally signed by SrnkaSandra Date: 2025.08.14 16:07:20 -04'00'	**Date:**

Notes:

Rev. May 2025

CAO

Collier County

DELEGATION OF SIGNATURE AUTHORITY AUTHORIZATION

DEFINITIONS. The following terms shall be defined as follows:

- "Signature Authority" -- Refers to the ability and discretion of a duly designated employee to formally accept, request, approve, or document by signature various actions pertaining to the administration of the agency.
- "Permanent Signature Authority" -- Refers to the appropriate utilization of signature authority on an ongoing basis.
- "Temporary Signature Authority" -- Refers to the appropriate utilization of signature authority that has been properly transferred from a permanent signatory for a period not to exceed 60 calendar days in duration.

Permanent Signatory Name:	Trinity Scott
Permanent Signatory Position Title:	Department Head
Authorized Signatory Name:	Marshal Miller
Authorized Signatory Position Title:	Director
Duration of Delegated Authority:	Temporary
If Temporary, time-frame of delegation:	9/11/25 — 9/14/25

Signature authorization required for the following documents/records:

- ☐ *Purchase Order Modification*
- ☐ *Contract Amendments*
- ☐ *Purchase Requisitions*
- ☐ *Budget Amendments*
- ☐ *Receiving/Invoicing Documents*
- ☐ *Change Orders*
- ☐ *Supplemental Agreements*
- ☐ *Personnel Requisitions*
- ☐ *Payroll Records - Leave*
- ☐ *Other - Describe Below*
- ☑ *Select All - authorization applies to all listed documents/records*

Permanent Signatory Authorization: ScottTrinity Digitally signed by ScottTrinity Date: 2025.09.10 16:11:21 -04'00'

CAO

Executive Summary

Recommendation to approve a Work Order with Humiston & Moore Engineers, PA, under Contract No. 18-7432-CZ, to provide professional engineering services for Maintenance Dredging of Doctors Pass for a lump sum fee of $56,247, and make a finding that this item promotes tourism (Fund 1105, Project No. 90549).

OBJECTIVE: To move forward with the maintenance dredging of Doctors Pass for 2026.

CONSIDERATIONS: Maintenance dredging of Doctors Pass is typically performed on a 4-year cycle, with interim dredges if required. The pass was last dredged in March/April 2022. Boaters using the pass have recently reported shallow water depths in the marked channel and adjacent areas at low tides. Staff has requested design, permitting, bidding assistance, and construction services for a maintenance dredge during the spring of 2026 from Humiston & Moore Engineers, PA, under contract 18-7432-CZ, for a lump sum fee of $56,247.

This item is consistent with the Quality of Place Objectives of the County's Strategic Plan.

ADVISORY COMMITTEE RECOMMENDATIONS: This item was approved by the Coastal Advisory Committee (CAC) on November 13, 2025, and will be reviewed by the Tourist Development Council (TDC) on December 12, 2025.

FISCAL IMPACT: Funding in the amount of $56,247 is available within Tourist Development Tax Beach Renourishment Fund (1105), Project 90549 (Doctors Pass Dredging).

FDEP cost-share funding will be requested if eligible at a future date to reimburse Collier County for a portion of the completed work.

LEGAL CONSIDERATIONS: This item is approved as to form and legality and requires majority vote for approval. – CMG

RECOMMENDATIONS: To approve a Work Order with Humiston & Moore Engineers, PA, under Contract No. 18-7432-CZ, to provide professional engineering services for Maintenance Dredging of Doctors Pass for a lump sum fee of $56,247, and make a finding that this item promotes tourism (Fund 1105, Project No. 90549).

PREPARED BY: Andrew Miller, P.E., Coastal Zone Management, Capital Project Planning, Impact Fees, and Program Management Division

ATTACHMENTS:

1. W.O- 11.20.2025-Doctors Pass Dregde

WORK ORDER/PURCHASE ORDER

Contract 18-7432-CZ "Professional Services Library – Coastal Engineering Category"
Contract Expiration Date: March 9, 2026

This Work Order is for professional Engineering Services for work known as:

Project Name: Maintenance Dredging of Doctors Pass
Project No: 90549.1

The work is specified in the proposal dated October 17, 2025, which is attached hereto and made a part of this Work Order. In accordance with Terms and Conditions of the Agreement referenced above, this Work Order/Purchase Order is assigned to: Humiston & Moore Engineers, P.A.

Scope of Work: As detailed in the attached proposal and the following:

* Task A.1 Survey
* Task A.2 Plans specs OPC
* Task A.3 Bid Phase
* Task A.4 Pre-Construction Services
* Task A.5 Construction Observation As-Builts

Schedule of Work: Complete work within 365 days from the date of the Notice to Proceed which is accompanying this Work Order. The Consultant agrees that any Work Order that extends beyond the expiration date of Agreement # 18-7432-CZ will survive and remain subject to the terms and conditions of that Agreement until the completion or termination of this Work Order.

Compensation: In accordance with the Agreement referenced above, the County will compensate the Firm in accordance with following method(s): ☒Negotiated Lump Sum (NLS) ☐Lump Sum Plus Reimbursable Costs (LS+RC) ☐Time & Material (T&M) (established hourly rate – Schedule A) ☐ Cost Plus Fixed Fee (CPFF), as provided in the attached proposal.

Task A.1	$ 9,975.00 (LS)
Task A.2	$ 18,416.00 (LS)
Task A.3	$ 3,610.00 (LS)
Task A.4	$ 4,674.00 (LS)
Task A.5	$ 19,572.00 (LS)
TOTAL FEE	**$ 56,247.00**

CAO

PREPARED BY: MillerAndrew Digitally signed by MillerAndrew Date: 2025.10.20 12:36:56 -04'00'

Andrew Miller, Manager — Date

APPROVED BY: AhmadJay Digitally signed by AhmadJay Date: 2025.10.20 13:53:30 -04'00'

Jay Ahmad, Division Director — Date

APPROVED BY: ScottTrinity Digitally signed by ScottTrinity Date: 2025.11.18 09:23:14 -05'00'

Trinity Scott, Department Head — Date

By the signature below, the Firm (including employees, officers and/or agents) certifies, and hereby discloses, that, to the best of their knowledge and belief, all relevant facts concerning past, present, or currently planned interest or activity (financial, contractual, organizational, or otherwise) which relates to the proposed work; and bear on whether the Firm has a potential conflict have been fully disclosed.

Additionally, the Firm agrees to notify the Procurement Director, in writing within 48 hours of learning of any actual or potential conflict of interest that arises during the Work Order and/or project duration.

ACCEPTED BY: Humiston & Moore Engineers

Brett D. Moore Digitally signed by Brett D. Moore Date: 2025.11.18 09:00:38 -05'00'

Brett Moore, President — Date

(Remainder of page intentionally left blank)

CAO

IN WITNESS WHEREOF, the parties hereto, have each, respectively, by an authorized person or agent, have executed this Work Order on the date and year first written below.

ATTEST:
, Clerk of Courts

By: _____

Dated: _____
(SEAL)

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

By: _____
Burt L Saunders, Chairman

Approved as to Form and Legality:

_____
Assistant County Attorney

_____
Print Name

CAO

HUMISTON
& MOORE
ENGINEERS
COASTAL
ENGINEERING DESIGN
AND PERMITTING

5679 STRAND COURT
NAPLES, FLORIDA 34110
FAX:239 594 2025
PHONE: 239 594 2021

October 17, 2025
(Proposal valid for 120 days.)

Andrew Miller, Principal Project Manager
Coastal Zone Management (CZM)
Collier County Government
2685 South Horseshoe Drive Naples, FL 34104

Re: Proposal for Maintenance Dredging of Doctors Pass
Project to be Coordinated with Wiggins Pass Bid and Naples Beach Project Design Collier County Contract 18-7432-CZ; HM File No 29-018.2025 Doctors Pass

Dear Andy:

Following the impacts from the 2024 Hurricane season, shoaling occurred at coastal inlets and waterways throughout much of southwest Florida. Shoaling within Doctors Pass was documented as part of the 2025 monitoring based on a bathymetric survey completed in December 2024. The County is in the process of obtaining an updated dredging permit from the USACE for maintenance dredging of Wiggins Pass and intends to bid the dredging project in 2025. As requested, enclosed is a proposal from Humiston & Moore Engineers (H&M) for professional services for Doctors Pass maintenance dredge permitting and agency coordination, plans and specs, bid package and bid assistance, post design services and closeout. The project will include coordination with Wiggins Pass Bid for 2025 Maintenance Dredging and Collier County Naples Beach Renourishment design and sand placement.

The completion date for all work is estimated to be 365 days from the date of the Notice to Proceed.

Task A Doctors Pass Maintenance Dredging

Task A.1: Updated Survey

Update Hydrographic Survey: Coordinate and complete an updated hydrographic survey of Doctors Pass to address principle areas of shoaling as identified in 2025 monitoring report. This survey will be the basis for the development of plans and specifications for bidding.

Deliverable: An electronic copy of the survey data and surveyor's certificate.

Task A.1 (LS) $9,975.00

CAO

Task A.2: Plans, Regulatory Coordination and Preparation of Technical Specifications, Bid Schedule and Opinion of Probable Costs

Construction Plans and Agency Coordination: Engineer shall prepare updated construction plans and specifications for the maintenance dredging at Doctors Pass based on available and any updated bathymetric and topographic data from the County. Pre and post construction surveys will be required by the Contractor to facilitate pay applications and compliance with Technical Specifications and regulatory permits. Plans will be reviewed with County for acceptance. Plans will be filed with the Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers for review and issuance of a Notice to Proceed. The County will provide the results of an updated Submerged Aquatic Survey (SAV) as required by state JCP permit.

Technical Specifications, Bid Schedule: Engineer will prepare Technical Specifications and a bid schedule to be included with the county contract documents for bidding. It is expected that dredging is to be done with a hydraulic dredge. Technical specifications will require the selected Contractor to complete pre and post dredging and beach construction surveys.

Opinion of Probable Costs (OPC): Prepare a final opinion of probable construction costs based on the final design. This will include potential cost savings from combining this project with the Wiggins Pass maintenance Dredging project and the Water Turkey Bay project should those projects move forward concurrently. Development of opinion of probable construction costs will include review of county records for dredging at Doctors Pass and recent costs for similar construction. Engineer will forward the final Opinion of Probable Costs with final construction plans and technical specifications to county for bid purposes.

Deliverable: Plans, Technical Specifications, and OPC.

Task A.2 (LS) $18,416

Task A.3 Bid Phase Services

Pre-Bid Conference, Technical Support and Addenda to Bid Package: Engineer will coordinate with County staff in preparation of responses to inquiries from potential bidders and attend a pre-bid conference with representatives of county and prospective bidders and suppliers for this project. Engineer will prepare addenda to bid documents and responses to requests for information from prospective Bidders at the request of the County on an as needed basis. Engineer will provide updated plans and technical specifications as needed during this process to support the Bid Phase for this project. The Bidding will be coordinated with the Wiggins Pass Maintenance Dredging and the Water Turkey Bay, as needed.

Bid Qualification: Evaluate bidders' qualifications, contact references, and prepare a formal recommendation to County regarding awarding of the construction contract.

Deliverable: Bid recommendation.

Task A.3 (LS) $3,610

CAO

Task A.4 Pre-Construction Services

Pre-Construction Regulatory Requirements and Agency Meeting: Engineer will coordinate with Contractor and County staff in ensuring sufficiency of required items in Technical Specifications for fulfillment of pre-construction state and federal regulatory requirements for issuance of a Notice to Proceed. Engineer and County staff will conduct a pre-construction meeting with the state and federal agencies and their respective resource agencies to present the project, intended performance, understanding of permit requirements, and schedule. The selected contractor will be present for this meeting. Engineer will provide required notices of commencement to respective state and federal agencies.

Deliverable: Summaries of Meetings (state and federal) Task A.4 (LS) $4,674

Task A.5 Construction Observation Support

Construction Observation Support: Engineer will provide updated plans utilizing pre-dredge, pre-disposal beach survey data to be collected by the Contractor. Engineer shall support the County with supplemental coordination and periodic site reviews with the Contractor throughout construction. County staff will be on-site daily, and Engineer shall support County staff on as-needed basis during construction and coordinate meetings with Contractor and County staff, as necessary, weekly throughout the construction project. Engineer shall review daily reports from Contractor and conduct construction observation services as necessary to assess construction performance in reference to technical specifications and regulatory compliance and provide reviews of contractor pay requests for the County. This will include:

- Review of daily dredged tracking records and beach disposal.
- Review progress surveys from Contractor, monitor production rates and review Contractor Pay Requests with County.
- Periodic photos to document progress and daily coordination with County staff.
- Prepare as-built drawings based on progress surveys from Contractor.

It is estimated that construction of this project will take 60 days, or less to complete dependent upon weather.

Post Project Certifications: Upon nearing project completion, the Contractor, Engineer and County staff will review the project to determine if the Work is substantially complete and develop a punch list for the Contractor. Once the contractor addresses all of the items on the punch list and has provided sufficient survey data post dredge and post fill placement, along with related survey certifications, Engineer can recommend to the County that the project construction be deemed substantially complete so the contractor may demobilize, upon acceptance by the County.

Upon completion of the project and review of post construction survey data provided by Contractor, H&M as Engineer of Record, will provide all necessary project certifications including

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beach profile surveys and post dredge as-built surveys to the County, DEP and USACE for project and permit compliance. Post construction report will include a summary of dredge tracking data and turbidity monitoring, and project certifications will include reference to a set of record as-built construction plans.

Deliverable: As-built drawings and project certifications. Task A.5 (LS) $19,572

Task A H&M Total..... $46,272 LS

Total Tasks A.1 thru A.5 (SDI + H&M) $56,247

Tasks will be billed on a lump sum basis, unless otherwise noted. The budgets for these tasks may therefore be considered as not-to-exceed amounts with the understanding that in the event regulatory requirements or requests from County staff result in Additional Services exceeding the estimated budget amounts, a budget amendment may be requested.

Please call if you have any questions.

Sincerely yours,

HUMISTON & MOORE ENGINEERS

Brett D. Moore, P.E., BC.CE
President

CAO

Date: September 4, 2025

Task A 2025 Doctors Pass Maintenance Dredging

Task A.1 Survey	$9,975
Task A.2 Plans specs OPC	$18,416
Task A.3 Bid Phase	$3,610
Task A.4 Pre-Construction Services	$4,674
Task A.5 Construction Observation As-Builts	$19,572

Task A.1 Survey SDI		RATE/UNIT	HOURS/QTY	COST	MARKUP	AMOUNT	
SDI	Survey	1		9975		9,975.00	**$9,975** (LS)
Task A.2 Plans specs OPC		RATE/UNIT	HOURS/QTY	COST	MARKUP	AMOUNT	
PRN2	Principle Engineer	231	24			5,544.00	
SEN	Senior Engineer	177	0			0.00	
PJTM	Project Manager	160	0			0.00	
ENG	Engineer	130	80			10,400.00	
SIN	Senior Design	140	0			0.00	
SCI	Designer	105	0			0.00	
SRT	Senior Technician	103	24			2,472.00	
INS	Inspector	93	0			0.00	
TEC	Technician	83	0			0.00	
CAD	Cadd Technician	107	0			0.00	**$18,416** (LS)

Task A.3 Bid Phase		RATE/UNIT	HOURS/QTY	COST	MARKUP	AMOUNT	
PRN2	Principle Engineer	231	6			1,386.00	
SEN	Senior Engineer	177	0			0.00	
PJTM	Project Manager	160	0			0.00	
ENG	Engineer	130	12			1,560.00	
SIN	Senior Design	140	0			0.00	
SCI	Designer	105	0			0.00	
SRT	Senior Technician	103	0			0.00	
INS	Inspector	93	0			0.00	
TEC	Technician	83	8			664.00	
CAD	Cadd Technician	107	0			0.00	**$3,610** (LS)

Task A.4 Pre-Construction Services		RATE/UNIT	HOURS/QTY	COST	MARKUP	AMOUNT	
PRN2	Principle Engineer	231	4			924.00	
SEN	Senior Engineer	177	0			0.00	
PJTM	Project Manager	160	0			0.00	
ENG	Engineer	130	24			3,120.00	
SIN	Senior Design	140	0			0.00	
SCI	Designer	105	6			630.00	
SRT	Senior Technician	103	0			0.00	
INS	Inspector	93	0			0.00	
TEC	Technician	83	0			0.00	
CAD	Cadd Technician	107	0			0.00	**$4,674** (LS)

Task A.5 Construction Observation As-Builts		RATE/UNIT	HOURS/QTY	COST	MARKUP	AMOUNT	
PRN2	Principle Engineer	231	22			5,082.00	
SEN	Senior Engineer	177	0			0.00	
PJTM	Project Manager	160	0			0.00	
ENG	Engineer	130	90			11,700.00	
SIN	Senior Design	140	0			0.00	
SCI	Designer	105	0			0.00	
SRT	Senior Technician	103	0			0.00	
INS	Inspector	93	30			2,790.00	
TEC	Technician	83	0			0.00	
CAD	Cadd Technician	107	0			0.00	**$19,572** (LS)

Total H&M	**$46,272**
Total H&M + SDI	**$56,247**

CAO

Sea Diversified, Inc.
160 Congress Park Drive, #114
Delray Beach, Florida 33445
Phone: 561-243-4920
Facsimile: 561-243-4957

June 26, 2025

Mr. Steve Foge, P.E.
Humiston & Moore Engineers
5679 Strand Court, Suite 110
Naples, Florida 34110

Sent via electronic mail 6/26/2025
(SF@HumistonandMoore.com)

Re: Proposal for Professional Services
Pre-Dredge Hydrographic (Bathymetric) Survey
Doctors Pass
Collier County, Florida
Sea Diversified P.N. 25-3096

Dear Mr. Foge:

In accordance with your request, Sea Diversified, Inc. (SDI) is pleased to submit the following proposal for professional services. The scope of work shall encompass a pre-dredge hydrographic (single-beam bathymetric) survey to support the maintenance dredging of Doctors Pass in Collier County, Florida. In accordance with your e-mail request provided on June 16, 2025, the summary of scope shall encompass the following as depicted on "Attachment A" herein:

General:
SDI shall provide supervision, field / office support staff and equipment to perform the scope of work described, herewith. All work shall be conducted to the highest level of industry standards and under the responsible charge of a Professional Surveyor and Mapper registered in the State of Florida. All work shall meet or exceed the Standards of Practice (Standards) set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

Horizontal and Vertical Data:

Horizontal Datum:	Feet, relative to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83)
Vertical Datum:	Feet, relative to the North American Vertical Datum of 1988 (NAVD88)

Horizontal / Vertical Control Verification
SDI will verify the horizontal and vertical position of all found and used monuments for the survey. Horizontal and vertical positions will be verified via Real-Time Kinematic GPS procedures.

Pre-Dredge Hydrographic Surveys:
The pre-dredge bathymetric surveys shall be conducted using an automated hydrographic system comprised of a survey launch equipped with a marine grade, single-beam sounder, differential global positioning system and computer-based navigation / data collection system. A GPS system shall be used for vessel positioning and navigation. The survey grade sounder will include a 200-kHz narrow beam (3°) transducer. This system, when calibrated to manufacturer's specifications, will yield accuracies of 1 cm plus 0.10% of the water depth when corrected for velocity. The sounder shall be calibrated via bar checks at the beginning of each survey day.Hydrographic data of shall be collected along the defined transects at Doctors Pass Entrance Channel & Settling Basin to include EC 00+00 to EC 15+70, Turning Basin (TB1-TB4), Interior Channels E4+85 to E17+51 and W0+00 to W8+12 .

Sounding data shall be recorded continuously along each survey transect along with position, depth, time, date and QA/QC data. Transects will extend an adequate distance beyond the channel as practical. SDI will employ manual poling survey techniques, including RTK survey methodologies in

shoal areas that automated bathymetric survey techniques are not practical. Data points will be collected at a maximum interval of twenty-five (25) feet.

RTK Tides will be applied in real-time during the survey, a redundant pressure tide gauge will be set to record water levels at no greater than five minute intervals during course of data collection activities. The gauge will be set relative to published vertical control in the vicinity of the project.

Data Processing and Final Deliverables
Upon completion of field survey activities, data will be edited and reduced to the project datum and translated to an xyz, ASCII format for submittal to Humiston & Moore (H&M). H&M will be provided the following deliverables:

1. Survey report certified by a Professional Surveyor and Mapper
2. Bathymetric data in ASCII (xyz) format

Cost:
Bathymetric Survey of Doctors Pass: **$ 9,975.00 Lump Sum**
(based on a one-time survey event, including equipment, data collection, processing and final deliverables)

Should you have questions or require additional information please do not hesitate to contact us at your convenience. We appreciate this opportunity to assist you with this project and look forward to hearing from you soon.

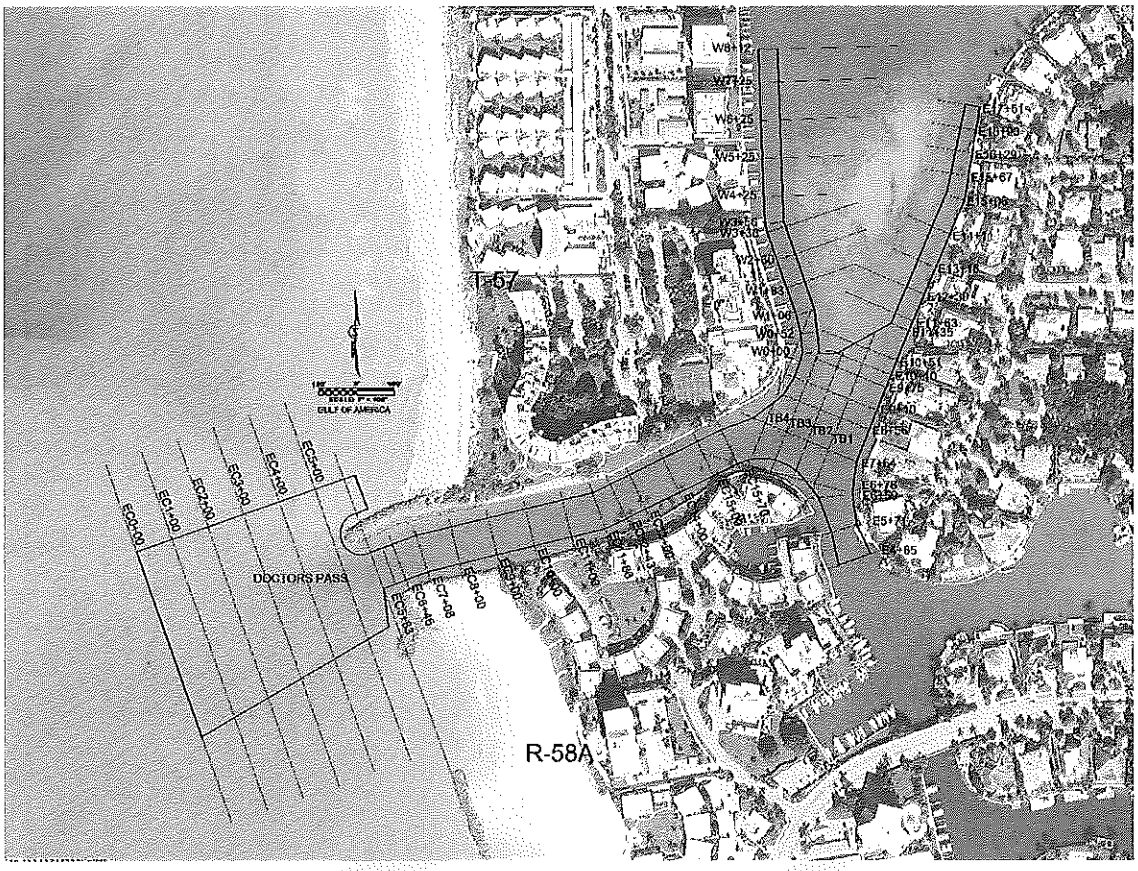
Best Regards,

William T. Sadler, Jr., P.E., P.S.M.
President
Sea Diversified, Inc.

Approved this _____ day of _____, 2025

_____
Mr. Steve Foge or Authorized
Humiston & Moore Representative

Attachment A



Collier County

Direct Select Form

Please be sure to attach the fully approved form to the requisition in SAP. Direct Selects are valid for 90 days.

The approval of this Direct Select is not for services rendered under a prior Purchase Order for the continuation of previous work assignment.

Request Date	Contract No.	Proposal Cost Estimate	Construction Cost Estimate
10/1/2025	18-7432-CZ	$60K	$1M

Requested By (*Use name as it appears in Outlook*): Andrew Miller

Division: Coastal Zone

Library Category: Coastal Engineerin

Vendor Name: Humiston & Moore Engineers, P.A.

Work Assignment Title: 2025 Collier County Doctors Pass Dredge Design

Description of Requested Services:
Design, bidding assistance, and post-design services for Doctors PassDredge project.

Justification (*Select all that apply and explain below*):

- ☑ Past experience with project — Previous PO #: 4500237386
- ☐ *Continuation of previous work assignment — Previous PO #: _____
- ☐ Unique qualifications
- ☐ Other

Comments / Explanation of Direct Select:
H&M has ample experience with Doctors Pass and is very familiar with the challenges in performing the work.

This request is in compliance with Fla. Stat. § 287.055, the Consultants' Competitive Negotiation Act, including the thresholds for study activity and estimated construction cost.

Requestor: Andrew Miller	**Signature:** MillerAndrew Digitally signed by MillerAndrew Date: 2025.10.06 12:36:43 -04'00'	**Date:**
Division Director: Jay Ahmad	**Signature:** AhmadJay Digitally signed by AhmadJay Date: 2025.10.06 13:58:14 -04'00'	**Date:**

Procurement Use Only

Procurement Director/Designee:	**Signature:** SrnkaSandra Digitally signed by SrnkaSandra Date: 2025.10.17 09:06:32 -04'00'	**Date:**

Notes:

Rev. May 2025

CAO

Executive Summary

Recommendation to accept the Convention and Visitors Bureau (CVB) Governance Restructure Study Report and make a finding that the recommendations therein promote tourism.

OBJECTIVE: To accept the CVB Governance Restructure Study report and its recommendation to privatize the marketing, promotion, group sales, and event functions currently performed by the Tourism Division.

CONSIDERATIONS: The Tourism Division is a Destination Marketing Organization (DMO), which functions to enhance local businesses and the economy by marketing the destination to potential visitors via advertising and promotions. Conversely, a 501(c)(6) nonprofit is the most widely used structure for DMOs due to its flexibility, industry engagement model, and ability to raise supplemental private dollars. From the study report, nationwide, 84.3% of DMOs operate as nonprofits, and 15.7% operate as governmental units. In Florida, nearly half are nonprofits, with the creation and conversion trends favoring that governance model.

Given an inferred competitive disadvantage, and in an effort to optimize Collier County's effectiveness on a national and international scale, on February 27, 2025, the County Manager's Office engaged Wert Marketing Group LLC to study alternative governance models for the County's Tourism Division that may improve efficiency, flexibility, and enhance market responsiveness.

The project included three main steps: research of various DMO models and DMOs that transitioned from a government to non-government status; outreach to local hospitality partners for input and feedback; and a review of the legal and operational framework for various models.

The study concluded that moving the Tourism Division to a nonprofit model could offer several benefits:

- Efficiency could be greatly improved by transferring marketing and promotional responsibilities to a specialized, industry-focused organization, reducing legal, financial, and County administrative staff time demands.
- The County's administrative burden may decrease as staffing, legal, accounting, human resources, information technology, and procurement costs and processes transfer to the new entity.
- Continued transparency and accountability would be assured through clear public oversight of tourist development tax expenditures through current County reporting practices, marketing-related decision-making, and additional nonprofit public financial reporting.
- Industry engagement may improve with direct representation from hospitality partners through membership and other partnership models, allowing the organization to address industry needs quickly as priorities arise or change.
- Additional funding streams could be developed through supplemental funding mechanisms and programs to enhance resources.
- A new governance model may better address human resource issues that have an impact on competitiveness, such as compensation comparable to private sector competitors, better recruitment via job descriptions that aren't under the County's Evergreen template, and additional staff to match the productivity of neighboring DMOs.

For these and other reasons outlined in the study, it is recommended that the Tourism Division transition to a 501(c)(6) nonprofit entity. This will improve agility, flexibility, stakeholder engagement, and visitor spending optimization.

This new entity would serve as the County's official tourism promotion organization, governed by its own board of directors. It would receive Tourist Development Tax (TDT) funding remitted from the County to support tourism marketing, sales, and promotion of the destination. This includes administering funding assistance programs for group meetings, sports events, and arts and cultural activities, including non-County museum grants.

The Tourist Development Council (TDC) would continue in its advisory role, providing recommendations to the Board of County Commissioners (BCC) on all TDT expenditures. The County would continue to manage and administer the TDT funds for tourism-related activities such as beach renourishment and maintenance, beach park facilities, the Paradise Coast Sports Complex, and County museums. The new Tourism entity would provide regular updates to the TDC and BCC, including a detailed marketing plan and budget before the beginning of the fiscal year of the new

Tourism entity, and an annual report that includes an audited financial statement.

Several entities have reviewed the study's findings. On September 18, 2025, the Productivity Committee reviewed the study results, provided recommendations for data collection, and supported the recommendation to move the Tourism Division to a nonprofit model. On October 16, 2025, the Priority Based Budgeting consultant contracted by the Board of County Commissioners, Resource X, met with County staff and Mr. Wert to review the study recommendations. A subsequent memorandum received from Mr. Chris Fabian of Resource X contained the following summary:

> *After reviewing the Collier County CVB Governance Restructure Study and its recommendation to transition the Tourism Division into a nonprofit 501(c)(6) Destination Marketing Organization (DMO), I find the proposal to be fully aligned with the principles, intent, and best practices of Priority Based Budgeting (PBB).*
>
> *From a "textbook PBB perspective," this is precisely the type of structural reform PBB calls on governments to consider: placing services in the governance model where they can be delivered most effectively, efficiently, responsively, and sustainably, while maintaining the appropriate level of public oversight.*
>
> *The recommended transition advances the County's goals around performance, resource optimization, transparency, and long-term fiscal stewardship. Based on this analysis, the principles of PBB would strongly support the recommendation.*

Completing the study is the first step in moving toward a nonprofit governance model. Acceptance of the study's recommendations and insights gained from the presentation of the study to the Tourism Development Council and the Board of County Commissioners would then lead to subsequent steps that include review for compliance with the Procurement Ordinance and Florida Statutes, drafting of a service agreement between the new DMO and the County, updating of applicable ordinances relating to tourism, transitional funding and staffing, logistical and equipment considerations, and contracted services transfer.

The Board of County Commissioners will determine the timeline for implementation, contingent on their acceptance of the Governance Restructure Study Report, its recommendation for privatization of tourism marketing and promotion services, and any additional directives given.

This initiative aligns with the 2025 Collier County Strategic Plan in the Quality of Place and Responsible Governance Strategic Focus Areas.

FISCAL IMPACT: There is no direct fiscal impact associated with accepting the Governance Restructure Study. A proposed plan of finance may be developed based on Board direction on the next steps.

LEGAL CONSIDERATIONS: The review of the Study is approved as to form and legality. Section 125.0104, Fla. Stat., provides the opportunity for a County to consider a different governance structure. The proposed governance structure will require additional County Attorney review at each step of the process including review for compliance with the County Procurement Ordinance and Florida Statutes. – CMG

RECOMMENDATIONS: Recommendation to accept the CVB Governance Restructure Study Report and make a finding that the recommendations therein promote tourism.

PREPARED BY: Jay Tusa, Director, and John Melleky, Arts and Culture Manager, Tourism Division

ATTACHMENTS:

1. Collier CVB Governance Restructure Study Presentation Final -TDC 12-12-25
2. CVB Governance Study Results Abbreviated Version - TDC 12-12-2025
3. ResourceX MEMORANDUM CVB

Collier County Tourism

dba Naples, Marco Island, and Everglades Convention & Visitors Bureau (CVB)

Governance Restructure Study Results

Collier County TDC
December 12, 2025



CIVITAS
PARTNERSHIPS • PROGRESS • PROSPERITY

Jack Wert, Wert Marketing Group
John Lambeth, Civitas

WERT MARKETING GROUP
Destination Management Experts

Governance Study Request

As part of ongoing efforts to identify cost-saving strategies, improve operational efficiency, and evaluate potential public-private partnerships, the County Manager initiated a research study in March 2025. The study was tasked with:

- Exploring alternative governance structures for the Tourism Division (CVB) such as hybrid and nonprofit models to administer tourism marketing and promotion
- Evaluating the benefits and challenges of transitioning from a government-based Tourism Division to a hybrid model or private-sector Destination Marketing Organization (DMO)
- Assessing how a transition could improve efficiency, flexibility, and market responsiveness and optimize the economic impact of tourism by attracting more visitor spending to our area businesses
- Providing guidance on forming an alternative governance structure, including staffing, outsourcing, and funding considerations

Benefits of a Restructured DMO

Overall Goals

- Improves efficiency, reduces administrative burden, maintains current transparency, and enhances tourism industry engagement

Greater Efficiency

- Optimizes visitor spending, streamlines and improves operations
- Transfers marketing and promotional responsibilities to a specialized, industry-focused organization, reducing legal, financial, and County administrative staff time demands
- Provides greater flexibility in contract and program execution, allowing a more expeditious response to tourism market changes and post-crisis marketing needs
- Enhances agility and market responsiveness by improving flexibility in marketing and promotion execution and enabling quicker responses to marketplace changes
- Expands future funding options

Benefits of a Restructured DMO Cont.

Reduces County's Administrative Burden

- Transfers County staff time and cost for supporting legal, accounting, HR, and procurement costs of the current Tourism Division from County Government to the new tourism entity

Assures Transparency & Accountability

- Maintains clear public oversight of tourist development tax expenditures through existing County reporting practices related to marketing expenditures

Improves Industry Engagement

- Facilitates direct representation from hotels, attractions, restaurants, and tourism partners through membership and partnership models, ensuring industry and tourism marketplace needs are addressed

Access to Potential Funding Streams

- Establishes public-private partnerships and creates supplemental funding mechanisms and services to enhance financial resources

Current Challenges

Staffing

- Tourism Division staffing reduced from 13 to 9 FTEs, despite the challenge of serving more than two million leisure and conference attendees annually
- Recruiting new talent is difficult due to a non-competitive wage scale
- Current County Job Descriptions do not align with private sector professional sales and marketing positions
- National, state, and local trends focused on reducing the size of government

Crisis Management

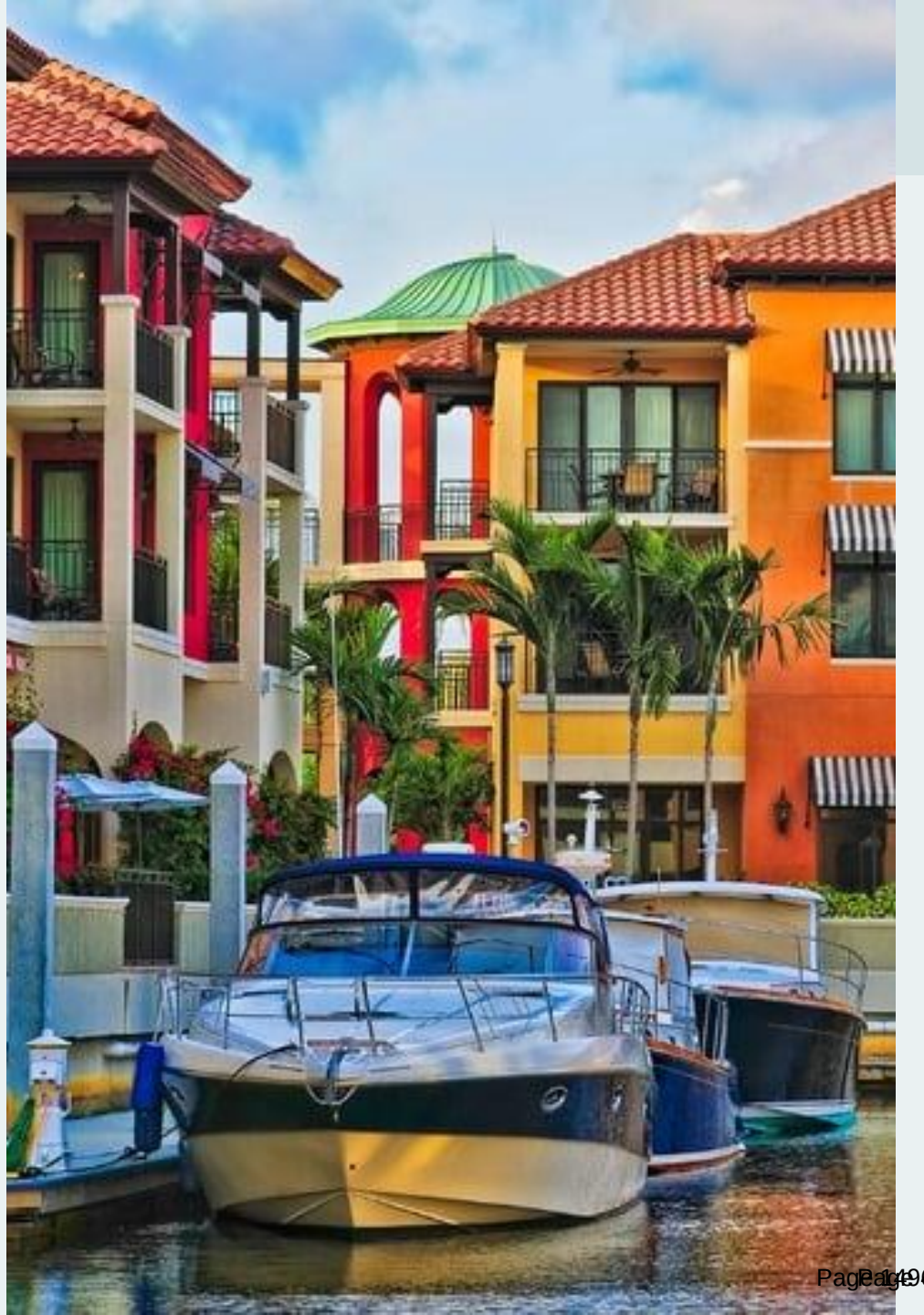
- Slow response in mitigating misinformation during and after hurricanes, wildfires, oil spills, economic recessions, pandemics, and other crises requiring immediate marketing strategy changes

Rapid Growth Requiring Additional Sales Efforts

- Marketplace competitiveness is threatened by reduced staffing levels
- International visitor market share has increased over the past 10 years from 10% to 20%
- Group meeting market share increased from 10% to 30% during that same 10-year period

Possible Solutions

- Obtain approval for additional professional Tourism Division staff positions to manage the increased workload
- Contract with outside suppliers to replace services lost from vacated staff positions and support the growing visitor base
- Study alternative governance structures to address challenges under the current governance model



Determining the Best Alternative

- The potential of obtaining County approval for hiring additional staff is low in the current atmosphere of determining ways to reduce staff in government agencies
- Contracting professional expertise to better service our ever-growing visitor base is often not cost effective and does not provide the total full-time commitment provided by a dedicated staff person in a marketing or sales position
- The results of this research project suggests the best alternative that will show the best Return on Investment (ROI) is a study to identify a different governance model to overcome the challenges faced by the current government-based Tourism Division

Early Study Recommendation

Based on our early research findings, we identified the logical alternative to overcome the current challenges facing the Tourism Division was a restructured governance model for the Tourism Division operating as a Destination Marketing Organization (DMO).

Our early recommendation was:

- That Collier County Government initiate the formation of and transition to a non-government organization to serve as the contracted entity responsible for promoting tourism in the Naples, Marco Island, and Everglades area
- The transition goal would be to optimize marketing agility, operational flexibility, and stakeholder engagement, while maintaining transparency and accountability through a formal contract with the County

The Project Scope

Based on the early research findings, our study focused on three core areas:

Research

- Assessed government-run, nonprofit, quasi-government, and hybrid DMO governance models and evaluated case studies of DMOs that successfully transitioned to non-government status

Community Engagement

- Conducted stakeholder outreach with hotels and resorts, attractions, restaurants, sports and arts and cultural organizations
- Formed a Steering Committee of tourism industry leaders to provide guidance and foster industry and community support through focused input meetings

Legal & Operational Framework

- Collected and reviewed IRS requirements, nonprofit bylaws, Articles of Incorporation, County/DMO contracts, operational policies, and funding levels to support a potential transition

Research Results & Analysis
Governance Model Comparisons

The study compared several DMOs in Florida and across the U.S.

Competitive Set of Destinations

- Compared DMOs with similar budgets and their organizational structures (i.e. government, nonprofit, hybrid, etc.), funding and staffing levels

Quasi-Governmental

- This model combines public purpose with private entity traits but can be slow-moving

Hybrid

- Shares governance between public and private sectors; efficient but complex

Nonprofit

- Reviewed 501(c)(3), 501(c)(4), and 501(c)(6) structures
- Noted that 501(c)(6) is the most used nonprofit model by DMOs, offering the greatest flexibility, funding options, and responsiveness

Research Results & Analysis

Competitive U.S. DMOs – $11M-$15M & Structure

Organization Name	State	Revenue*	Type of Organization
Visit Carlsbad	CA	$14,887,000	501(c)(6)
Visit Austin	TX	$14,816,000	501(c)(6)
Visit Pittsburgh	PA	$14,230,000	501(c)(6)
Visit Park City	UT	$14,133,000	501(c)(6)
Visit Bradenton	FL	$14,107,000	Government
Meet Minneapolis	MN	$13,674,000	501(c)(6)
Naples, Marco Island, Everglades Convention & Visitors Bureau	FL	$13,644,000	Government
Visit Tucson	AZ	$13,573,000	501(c)(6)
Desoto County Convention and Visitors Bureau	MS	$13,439,000	Government
Visit Pensacola	FL	$13,319,000	501(c)(6)
Experience Grand Rapids	MI	$13,241,000	501(c)(6)
Hilton Head Island Bluffton Chamber of Commerce	SC	$12,930,000	501(c)(6)
Visit Chattanooga	TN	$12,383,000	501(c)(4)
See Monterey	CA	$12,151,000	501(c)(6)
Discover Flagstaff	AZ	$12,100,000	Government
Visit Greenville	SC	$12,056,000	501(c)(6)
Experience Rochester	MN	$11,903,000	501(c)(6)
Cincinnati USA CVB	OH	$11,644,000	501(c)(6)
Explore Branson	MO	$11,626,000	501(c)(6)
Visit Long Beach	CA	$11,531,000	501(c)(6)
Tourism Santa Fe	NM	$11,480,000	Government
Visit Knoxville	TN	$11,092,000	501(c)(3)
Visit Milwaukee	WI	$11,056,000	501(c)(6)

Government DMOs report revenue based on their marketing budgets, while nonprofit DMOs typically report total revenue

Source: Civitas PRO

Florida DMO Governance Comparisons

DMO Name (Visitor Tax %)	County	Total TDT Collected FY 2024	"Advertising and Promotion" FY 24-25 Base for FY 2026	Percent TDT Spent on Advertising	Staff Counts Website 2025	Governance Model
Bradenton Area CVB (6% as of 8/1/24)	Manatee	$21,880,570	$16,467,791	75.3%	13	Government
Brevard County/Space Coast (5%)	Brevard	$25,260,000	$13,400,000	53.0%	14	Government
Florida Keys TDC (5%)	Monroe	$61,000,000	$30,000,000	49.2%	5 *	Government
Amelia Island CVB (5%)	Nassau	$11,531,453	$4,624,180	40.1%	11	501c6
Fort Myers/Sanibel (5%)	Lee	$44,262,302	$12,500,000	28.2%	31	Government
Discover The Palm Beaches (6%)	Palm Beach	$86,700,000	$19,799,608	22.8%	52	501c6
Naples, Marco Is., Everglades CVB (5%)	Collier	$48,600,000	$11,000,000	22.6%	9	Government
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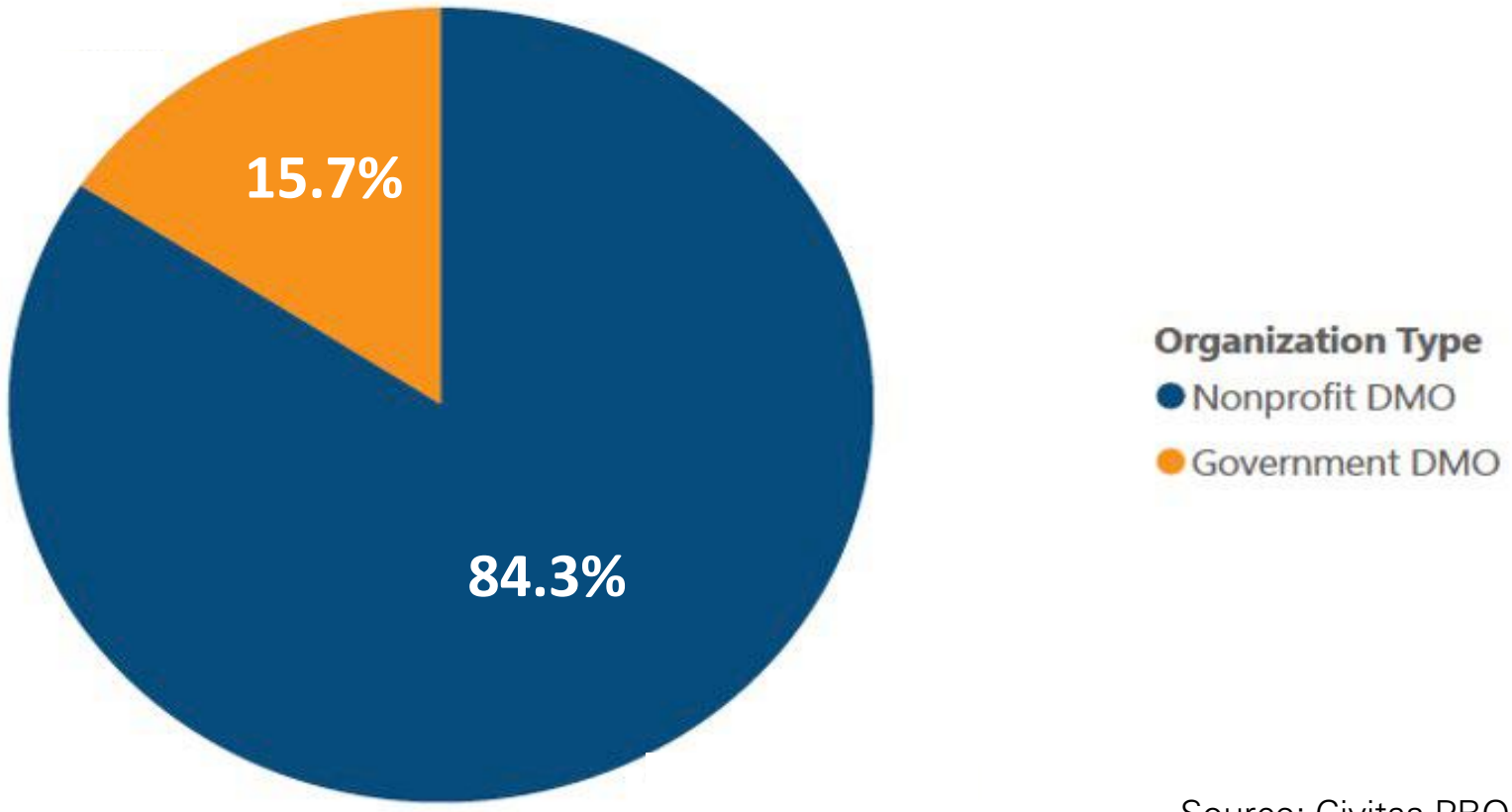
In Sept. 2025, a supplemental investment of $5M was approved again to retain the marketing budget at $11M.

Research Results & Analysis

Government vs. 501(c) DMO Structures in the U.S.

Overall DMO Breakdown

84% of US DMOs operate under a nonprofit structure



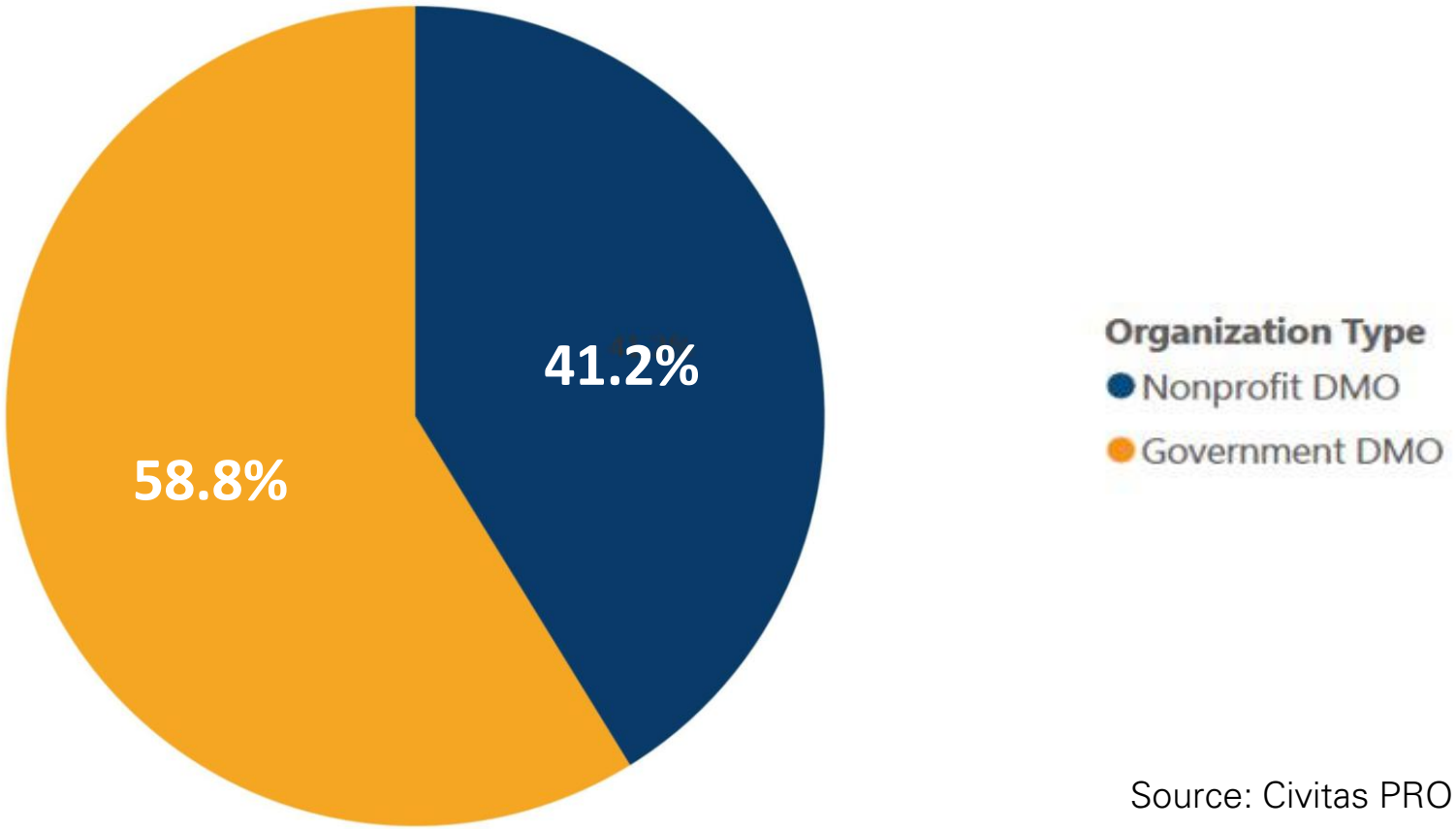
Source: Civitas PRO

Research Results & Analysis

Government vs. 501(c) DMO Structures in Florida

Florida DMO Breakdown

41% of Florida DMOs operate under a nonprofit structure



Source: Civitas PRO

Case Studies

Visit San Antonio
San Antonio (TX)

- Transitioned from a city department to a 501(c)(6) nine years ago, citing speed to market, better talent management and stakeholder leadership as key benefits achieved
- “The conversion has been highly successful for the City, the CVB and for the community. The key was building consensus with City leaders and hospitality leaders.”

Casandra Matej
Past President/CEO



Case Studies

Experience Kissimmee
Kissimmee (FL)

- Successfully transitioned to a nonprofit 10 years ago with a 10-year agreement with Osceola County
- "We utilized a transition team to help in planning and implementation of the new entity that resulted in improved staff acquisition, outside contracting, and the ability to raise private funds from marketing and trade show co-ops."

D.T. Minich
President/CEO



Benefits Cited by DMOs Transitioning to Private Sector

- The overall Purpose was to optimize tourism for their communities
- Improved responsiveness to tourism market changes and trends
- More timely and successful hiring practices
- Improved engagement with their tourism industry stakeholders, elected officials and residents

Stakeholder Hybrid Sessions

- Held six hybrid stakeholder sessions with participants from hotels, resorts, attractions, restaurants, sports, arts and culture, and merchant groups
- Held 12 project Steering Committee meetings
- Conducted one-on-one meetings with Collier TDC members
- Provided monthly updates to the County Manager and Finance

Stakeholder Hybrid Sessions
Verbatim Comments

- “We are solidly behind this process and will support it”
- “We see a real benefit in transitioning to a private sector CVB”
- “Our organization will support this idea however we can”
- “We will educate our Association members on the important of supporting this plan”
- “Structure the County contract to maintain current transparency and accountability”
- “How will the start-up costs be funded?”

Organizational Responsibilities, Funding and Staffing

- The **County** would retain TDT funding, staff and management for tourism-related responsibilities such as beach renourishment and maintenance, beach park facilities, the Paradise Coast Sports Complex, County museums, TDC administration, and advocacy issues supported by the BCC
- The **Tourist Development Council (TDC)** would continue its advisory role on all TDT expenditures, providing recommendations to the BCC
- The **new DMO** would continue to serve as the County's **official tourism promotion organization,** governed by a separate board. The new DMO would manage tourism marketing, sales and promotion of the destination, administer funding assistance for group meetings, sports events, arts and culture events, non-County museum events and regularly report results under a contract between the County and the new entity

DMO Governance Framework

The new entity would require the following to ensure compliance and transparency:

- Bylaws and Articles of Incorporation
- Key Policies: Conflict of Interest, Whistleblower and Records Retention
- IRS Form 990 report filings and audits
- Contracts with County and outside suppliers of marketing and operational services



Funding Sources

Current Funding Source

- TDT allocations

Supplemental Funding Options Available for a Non-government Tourism Entity

- Co-op marketing and partner trade show participation fees
- Regional promotional opportunities with tourism industry partners
- Membership/partnership contributions
- Grants and special events revenue
- Tourism Improvement District (TID), which allows lodging businesses to collectively approve a dedicated assessment that, once established, is mandatory and used to fund DMO marketing initiatives
- Destination marketing fee collected by the accommodation and paid voluntarily by guests and used to support DMO-sponsored promotional initiatives
- Potential TDT increase to 6%

Organizational Framework for Tourism Promotion

- To support the expanded scope and responsibilities of a restructured tourism promotion organization, additional staff may be required in marketing, sales, stakeholder engagement, and operations
- Specialized marketing and sales support roles could enhance organizational capacity, while core administrative and leadership functions such as finance, operations, and executive oversight may also be expanded to ensure effective management
- Certain services such as human resources, legal, auditing, and IT could be contracted out to improve efficiency and control costs

Transparency, Accountability & Oversight

- County oversight would continue for all tourism financial transactions
- Contract with the County would include indemnification and required insurance coverage
- Regular reporting to the TDC and BCC
- Regular reporting to tourism industry stakeholders
- Adoption by the restructured DMO of the recently approved CVB Strategic Marketing Plan and current Performance Metrics



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Performance Metrics & ROI

Performance Indicators/Metrics

- Tourist Tax Collections
- Visitor Spending
- Visitation
- Website Traffic
- Social Media Engagement
- Earned Media Value
- Qualified Group Meeting Leads

ROI (Year-over-Year)

- Direct Visitor Spending
- Economic Impact
- Average Length of Stay
- Marketing Spend vs. Visitor Spending

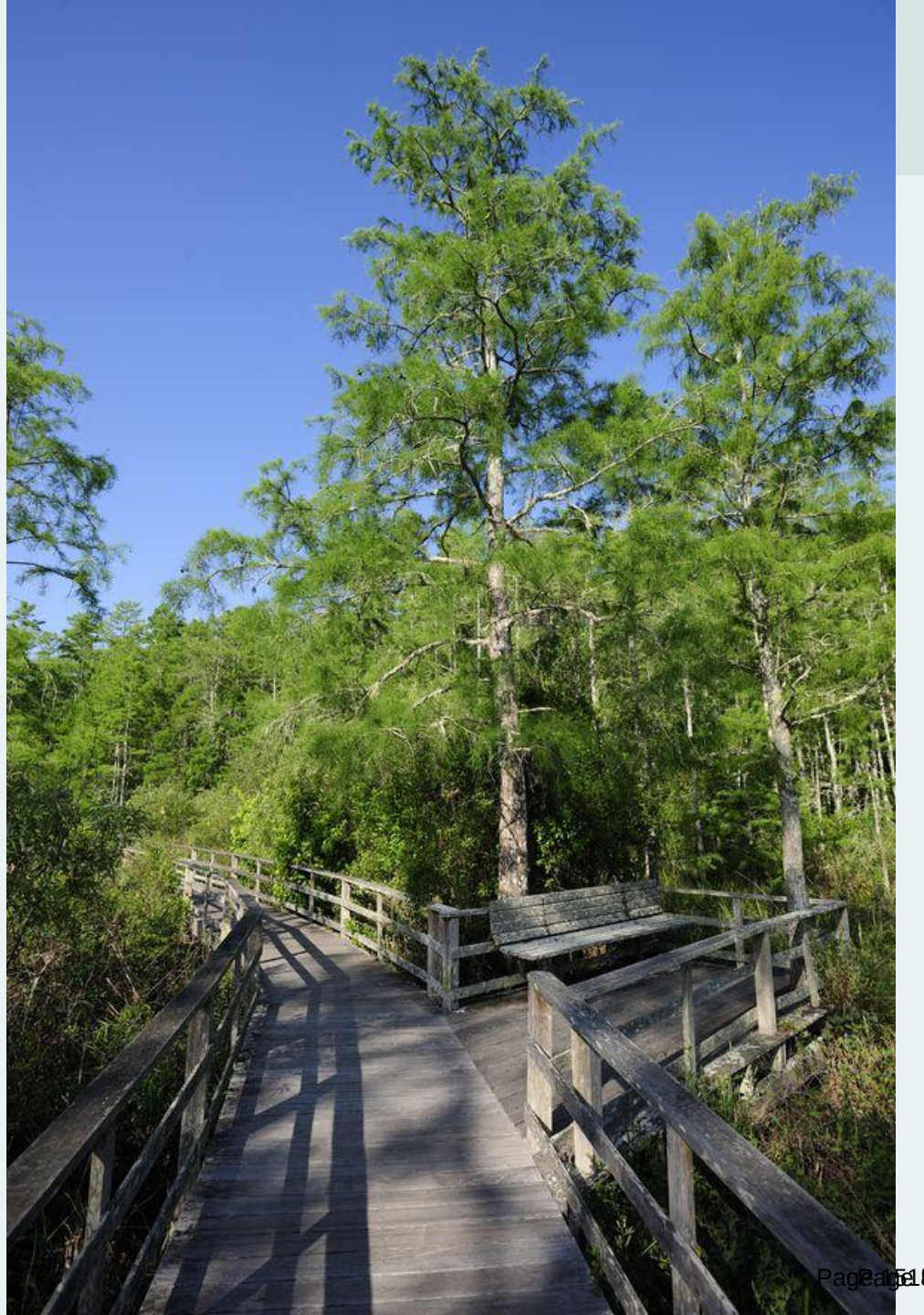
Recommendation

Based on the completed research study findings, the following is recommended that:

- Collier County Government initiate the formation of a nonprofit 501(c)(6) organization to serve as the contracted entity responsible for promoting tourism in the Naples, Marco Island, and Everglades area, transitioning from the current County Government structure
- The transition is intended to optimize tourism, improve marketing agility, operational flexibility, and stakeholder engagement, while maintaining current transparency and accountability through a formal contract with the County

Approval Process

- Collier County Administration - Approved
- Productivity Committee - Recommended
- ResourceX - Endorsed
- TDC Recommendation - December 12, 2026
- Board of County Commissioners Consideration - 1st Quarter 2026



Collier County Tourism Division

dba Naples, Marco Island, and Everglades Convention & Visitors Bureau (CVB)

Governance Restructure Study Results

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916-505-1940

Collier County CVB Governance Research Study Results

Prepared by

Jack Wert, CEO, Wert Marketing Group LLC

John Lambeth, CEO, Civitas

December 2025

CIVITAS
PARTNERSHIPS • PROGRESS • PROSPERITY

WERT MARKETING GROUP
Destination Management Experts

Governance Study Request

- As part of ongoing efforts to optimize visitor spending, identify cost-saving strategies, improve operational efficiency and evaluate potential public-private partnerships, the County Manager initiated a research study in March 2025

- The study scope included exploring alternative governance models for the Tourism Division operating as a Convention & Visitors Bureau (CVB), including hybrid and nonprofit structures



Purpose of the Study

- Explore alternative governance structures for the CVB
- Assess benefits of transitioning to a non-government Destination Marketing Organization (DMO)
- Provide recommendations to improve efficiency, flexibility, responsiveness and engagement

Benefits of Restructuring Tourism Division

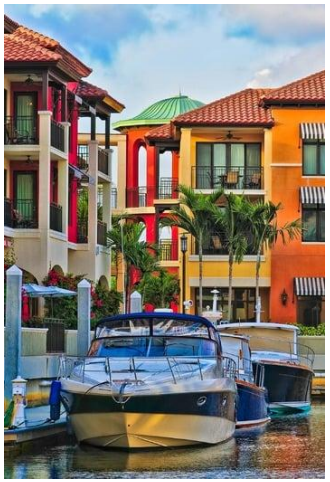
- Optimizes visitor spending, streamlines and improves operations
- Transfers government funding support for County staff time for legal, accounting, HR and Procurement to the new tourism entity
- Continues current Transparency & accountability for oversight of TDT expenditures
- Enhances tourism industry engagement
- Greater flexibility and response time to a crisis and tourism market changes
- Diversifies future funding options

Current Challenges

- Staffing reduced from 13 to 9 FTEs despite rising leisure and meetings demand
- Recruiting difficult due to non-competitive wage scale & job titles not aligned with similar positions in private sector
- Trends to reduce the size of government
- Slow crisis response (hurricanes, wildfires, pandemics)
- Growth pressures in the past 10 years
    - International Visitors (10%→20%), Meetings Market (10%→30%)

Possible Solutions

- Request County approval for additional staff positions
- Contract with outside suppliers for needed services
- Study alternative governance structures to address challenges under current government model



Determining the Best Alternative

- Low likelihood of County approval for new staff
- Contracting is costly, less effective and less commitment to responsibilities
- Best ROI: Explore new governance model

Early Study Recommendation

- Transition to a non-government structured DMO organization
- Benefits: optimized visitor spending, improved agility, flexibility, stakeholder engagement
- Maintains accountability and transparency utilizing a County contract

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Research Findings

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Governance Findings

- Compared DMOs with similar budgets on their structure, funding and staff
- Governance models reviewed:
  - Government-run, quasi-government, hybrid, nonprofit
- 84% of U.S. DMOs and nearly half of Florida DMOs are non-government, with the trend continuing toward nonprofit structures
- Most common: Nonprofit 501(c)(6) model
- Case studies: Visit San Antonio, Experience Kissimmee
  - Both cited improved speed to market and talent recruiting
  - Recommended need for strong support for transition with stakeholders and government entities
  - Build solid transparency and accountability into contract

Stakeholder Input

- 6 hybrid sessions + 12 Project Steering Committee meetings - Weekly now
  One-on-one discussions with TDC members
- Strong support for restructuring from all groups
- Concerns: startup funding, continued transparency/accountability

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Research Results & Analysis

Competitive U.S. DMOs – $11M-$15M & Structure

Organization Name	State	Revenue*	Type of Organization
Visit Carlsbad	CA	$14,887,000	501(c)(6)
Visit Austin	TX	$14,816,000	501(c)(6)
Visit Pittsburgh	PA	$14,230,000	501(c)(6)
Visit Park City	UT	$14,133,000	501(c)(6)
Visit Bradenton	FL	$14,107,000	Government
Meet Minneapolis	MN	$13,674,000	501(c)(6)
Naples, Marco Island, Everglades Convention & Visitors Bureau	FL	$13,644,000	Government
Visit Tucson	AZ	$13,573,000	501(c)(6)
Desoto County Convention and Visitors Bureau	MS	$13,439,000	Government
Visit Pensacola	FL	$13,319,000	501(c)(6)
Experience Grand Rapids	MI	$13,241,000	501(c)(6)
Hilton Head Island Bluffton Chamber of Commerce	SC	$12,930,000	501(c)(6)
Visit Chattanooga	TN	$12,383,000	501(c)(4)
See Monterey	CA	$12,151,000	501(c)(6)
Discover Flagstaff	AZ	$12,100,000	Government
Visit Greenville	SC	$12,056,000	501(c)(6)
Experience Rochester	MN	$11,903,000	501(c)(6)
Cincinnati USA CVB	OH	$11,644,000	501(c)(6)
Explore Branson	MO	$11,626,000	501(c)(6)
Visit Long Beach	CA	$11,531,000	501(c)(6)
Tourism Santa Fe	NM	$11,480,000	Government
Visit Knoxville	TN	$11,092,000	501(c)(3)
Visit Milwaukee	WI	$11,056,000	501(c)(6)

Government DMOs report revenue based on their marketing budgets, while nonprofit DMOs typically report total revenue

Source: Civitas PRO

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Florida DMO Governance Comparisons

DMO Name (Visitor Tax %)	County	Total TDT Collected FY 2024	"Advertising and Promotion" FY 24-25 Base for FY 2026	Percent TDT Spent on Advertising	Staff Counts Website 2025	Governance Model
Bradenton Area CVB (6% as of 8/1/24)	Manatee	$21,880,570	$16,467,791	75.3%	13	Government
Brevard County/Space Coast (5%)	Brevard	$25,260,000	$13,400,000	53.0%	14	Government
Florida Keys TDC (5%)	Monroe	$61,000,000	$30,000,000	49.2%	5 *	Government
Amelia Island CVB (5%)	Nassau	$11,531,453	$4,624,180	40.1%	11	501c6
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FY 25 saw an increase to the marketing budget to a total of $11M due to a supplemental investment of $5M.

In Sept. 2025, a supplemental investment of $5M was approved again to retain the marketing budget at $11M.

Proposed New DMO Structure

- **County** retains funding and responsibility for beaches, beach parks, Sports Complex, County Museums and TDC administration
- **TDC** continues advisory role on all TDT expenditures
- **New DMO** continues as County's official DMO and handles marketing, promotion, group sales and events through contract with County. This would require Bylaws, Articles of Incorporation, Policies and Procedures, IRS reporting, audits

Funding Opportunities

Current Funding Source:

- TDT allocations

New Funding Opportunities:

- Expanded Co-op marketing
- Membership or Partnership fees
- Grants, special event revenue
- Voluntary TID or destination marketing fee for CVB marketing initiatives
- Potential TDT increase to 6%



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Staffing of New Entity

- Current staff offered transition opportunity to new entity or stay with County
- Expanded roles in marketing, sales, engagement, operations
- Outsourced HR, legal, IT for efficiency and cost control

Transparency & Accountability

- Regular reporting to TDC, BCC, tourism industry stakeholders
- Adopt recently approved CVB Strategic Marketing Plan
- Maintain current Performance Metrics: tax collections, visitor spending, website traffic, social media, group leads
- Maintain current ROI measurements: Direct visitor spending, economic impact, average stay, Marketing Investment vs Visitor Spending

Recommendations and Next Steps

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Final Recommendation

- Form a nonprofit 501(c)(6) DMO contracted with Collier County
- Benefits: optimized visitor spending, agility, flexibility, engagement
- Maintain current oversight with contracts, reporting, transparency measures

Next Steps

- Collier County Administration - Approved
- Productivity Committee - Recommended
- Resource X - Endorsed
- TDC Recommendation - December 12
- Board of County Commissioners Consideration - 1st Quarter 2026
- Formation of a new nonprofit DMO

Collier County CVB Governance Restructure Study Report

Prepared by

Wert Marketing Group & Civitas

December 2025

MEMORANDUM

To: Collier County Leadership
From: Chris Fabian, ResourceX
Subject: Priority Based Budgeting (PBB) Assessment of the CVB Governance Restructure Recommendation
Date: Thursday, November 13, 2025

Executive Summary

After reviewing the Collier County CVB Governance Restructure Study and its recommendation to transition the Tourism Division to a nonprofit 501(c)(6) Destination Marketing Organization (DMO), I find the proposal to be fully aligned with the principles, intent, and best practices of Priority Based Budgeting (PBB).

From a "textbook PBB perspective," this is precisely the type of structural reform PBB calls on governments to consider: placing services in the governance model where they can be delivered most effectively, efficiently, responsively, and sustainably, while maintaining the appropriate level of public oversight.

The recommended transition advances the county's goals around performance, resource optimization, transparency, and long-term fiscal stewardship. Based on this analysis, the principles of PBB would strongly support the recommendation.

PBB Assessment of the Recommendation

1. Alignment With PBB's Core Philosophy:

"Match Services With Their Most Effective Service Delivery Model."

PBB asks governments to continually assess whether programs are best delivered:

- internally by government,
- shared through public–private partnerships, or
- provided through alternative governance models such as nonprofits or hybrid organizations.

The CVB restructuring recommendation is a clear example of PBB's guiding philosophy:

Govern where you must, enable where you should, outsource where it increases value, and partner where it expands impact.

The study demonstrates that a nonprofit DMO model would:

- increase marketing agility,
- improve talent acquisition and retention,
- expand available resources through private-sector funding models,
- elevate stakeholder engagement, and
- reduce administrative burden for the County.

These outcomes strongly reinforce the PBB principle of ensuring that services are provided in the most effective and efficient way, regardless of historical tradition or legacy organizational structure.

PBB supports this shift because it directly enables better service outcomes at a lower cost and with greater strategic flexibility.

2. Reinforces PBB's Goal of "Optimizing Resources Toward the Highest Community Impact."

Tourism promotion is a high-impact economic driver for Collier County. The evidence in the study shows:

- significant staffing constraints within the current government model,
- risks to competitiveness and responsiveness, and
- limitations on marketing execution speed, particularly during crises.

A restructured DMO would expand capacity through:

- increased flexibility in hiring and compensation,
- ability to rapidly deploy marketing strategies,
- industry-led engagement structures, and
- supplemental funding streams unavailable to government agencies.

From a PBB standpoint, this means greater impact for each public dollar, with the ability to grow revenue-generating activity (visitor spending, tourist development tax performance, economic impact). PBB views such leverage as *ideal resource optimization*.

3. Advances PBB's Principle of Transparency & Accountability

Some may assume that moving a function outside government reduces accountability. The recommendation actually enhances it.

The study outlines:

- strong contractual oversight,
- continued TDC and BCC reporting,
- alignment with the existing strategic marketing plan, and
- adoption of public reporting and IRS 990 transparency requirements.

From a PBB lens, accountability is not dependent on whether staff are public employees, but whether performance metrics, reporting structures, and oversight mechanisms are robust and enforceable.

The proposed model clearly meets; and in some ways exceeds current accountability structures.

4. Supports PBB's Intent to "Reduce Reliance on General Fund Resources Through Alternative Funding Models."

While the Tourism Division is not general-fund financed, this recommendation demonstrates a foundational PBB concept: ***shifting select functions to models with diversified funding allows government to protect general fund flexibility for core governmental services.***

The nonprofit DMO structure opens the door to:

- co-op marketing revenue,
- partner fees,
- grants,
- event revenue,
- tourism improvement district assessments,
- and broader industry investment.

This reduces pressure on public revenue sources and expands the overall resource base, a key PBB strategy for long-term fiscal resilience.

5. Reflects PBB's Best Practice of Responding to Operational and Environmental Realities

The study highlights clear operational pressures on the existing model:

- reduced staffing,
- increasingly competitive talent environment,
- rising visitor volumes,
- significant crisis-response needs.

PBB explicitly encourages governments to make structural changes when service demand and operational complexity outgrow the constraints of internal delivery.

The DMO recommendation is a responsible and forward-looking application of this practice.

Our Position

Based on both the empirical findings in the study and Priority Based Budgeting's core principles, ResourceX fully supports this recommendation. It reflects:

- sound fiscal stewardship,
- strategic alignment with community priorities,
- operational efficiency,
- enhanced transparency, and
- an increased ability to achieve the outcomes that matter most to Collier County residents, businesses, and visitors.

The proposed governance restructure represents a textbook example of PBB in action: placing services in the structure where they can achieve the greatest impact, with the greatest efficiency, and the greatest flexibility, while ensuring accountability remains firmly in place.



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October 2025 Monthly Visitor Dashboard

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1) **Monthly Highlights:** pg. 3-7

2) **Monthly Executive Summary:** pgs. 8-14

3) **Monthly Destination Comparisons**: pgs. 15-21

4) **Industry Data:** pgs. 22-28



1

MONTHLY HIGHLIGHTS

October 2025 | TOURISM METRICS

downs & st. germain RESEARCH

Metric	October 2024	October 2025	Percent Change
Visitors	190,800	215,300	+ 12.8%
Visitor Days	1,013,100	1,149,700	+ 13.5%
Direct Spending	$127,527,900	$135,829,300	+ 6.5%
Room Nights	195,200	197,800	+ 1.3%
Occupancy	47.8%	48.3%	+ 1.0%
Average Daily Rate	$225.37	$237.35	+ 5.3%
RevPAR	$107.73	$114.64	+ 6.4%

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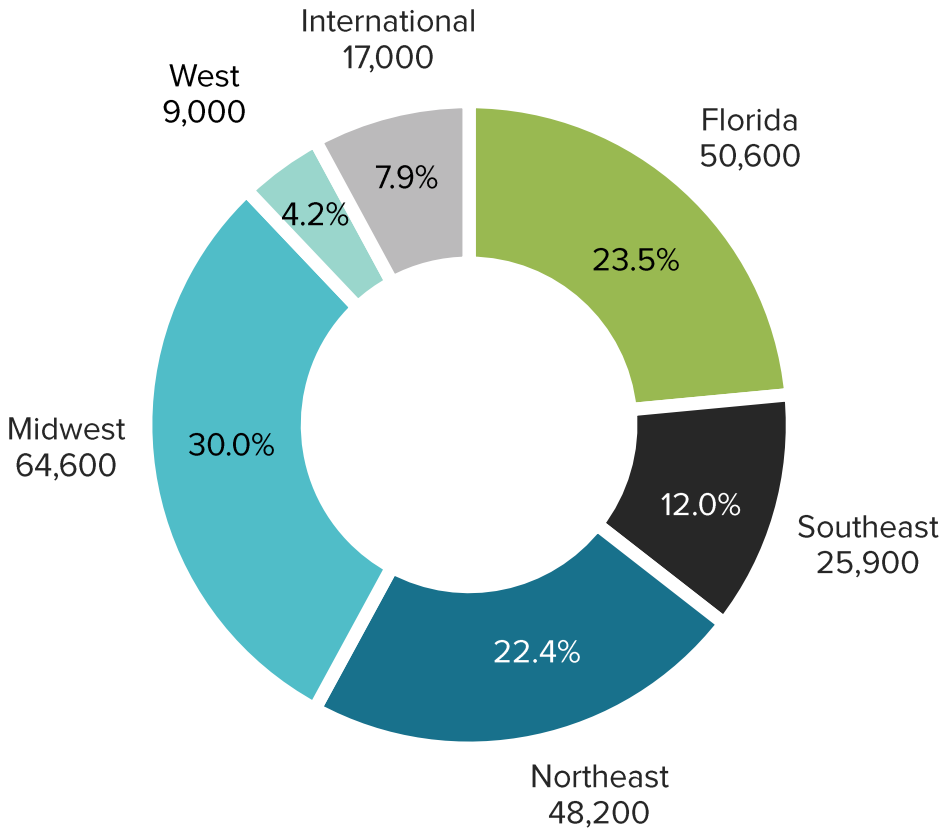
OCTOBER 2025 | VISITOR ORIGIN REGIONS

downs & st. germain RESEARCH

	October 2024		October 2025		Percent Change (±Δ%)	
Region	# Visitors	% Share	# Visitors	% Share	# Visitors	% Share
Domestic	170,100	89.2%	198,300	92.1%	+ 16.6%	+ 3.3%
Florida	43,900	23.0%	50,600	23.5%	+ 15.3%	+ 2.1%
Southeast	22,600	11.8%	25,900	12.0%	+ 14.6%	+ 1.3%
Northeast	40,900	21.4%	48,200	22.4%	+ 17.8%	+ 4.5%
Midwest	55,200	28.9%	64,600	30.0%	+ 17.0%	+ 3.7%
West	7,500	3.9%	9,000	4.2%	+ 20.0%	+ 6.8%
International	20,700	10.8%	17,000	7.9%	- 17.9%	- 27.2%
Canada	11,100	5.8%	8,600	4.0%	- 22.5%	- 31.2%
Europe	6,800	3.6%	5,800	2.7%	- 14.7%	- 24.2%
C/S America	1,600	0.8%	1,500	0.7%	- 6.3%	- 16.5%
Other	1,200	0.6%	1,100	0.5%	- 8.3%	- 20.5%
Total	190,800	100.0%	215,300	100.0%	+ 12.8%	



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October 2025 | HIGHLIGHTS & AREAS OF CONCERN

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Highlights

- Visitation increased 12.8% from October 2024.
- Direct Spending was 6.5% higher than October 2024.
- Hotel Industry Trends in October 2025 in Collier County:
  - Leisure Demand and Group Demand both increased year-over-year, with Leisure Demand increasing 7.5% while Group Demand increased 7.1%.
  - Hotel Average Daily Rate (ADR) again ranked second in the competitive set.
  - Hotel Occupancy was 56.3%, a 4.9% increase year-over-year.
  - Hotel Room Supply was up 2.0% from October 2024.
- Southwest Florida fortunately did not experience any hurricanes in October 2025, after enduring Hurricanes Helene and Milton last year in late September/early October. The lack of extreme weather in October 2025 likely contributed to some of the year-over-year increases in Visitation and Direct Spending.

Potential Areas of Concern

- International visitation was still significantly lower than during the same month last year; however, the year-over-year decrease was less than in September.

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3-MONTH FORECAST[1] | NOVEMBER - JANUARY

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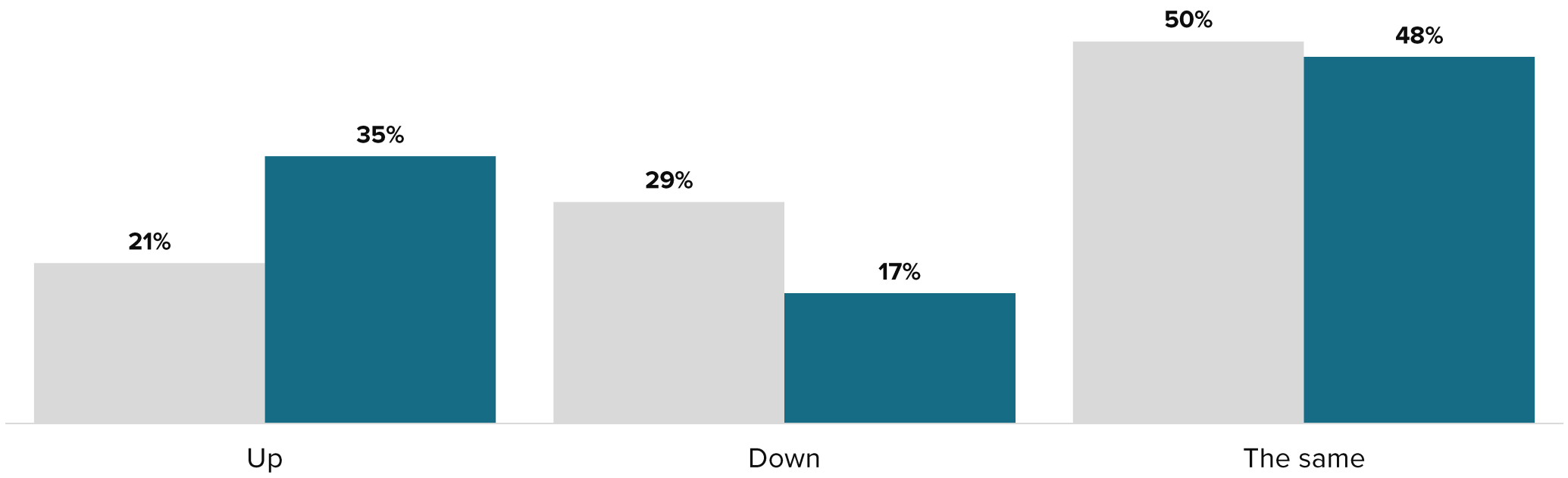
Looking ahead to the next three months, are your property's reservations generally up, down, or the same compared to this time last year?



[1]Source: Data provided by Collier County hotel and vacation rental partners who respond to DSG's Monthly Occupancy Survey.

Disclaimer: This forecast is based on three-month forward-looking expectations provided by a sample of accommodation partners. Actual lodging performance has historically differed from these projections.

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2

EXECUTIVE MONTHLY SUMMARY

OCTOBER 2025 | VISITATION & ROOM NIGHTS

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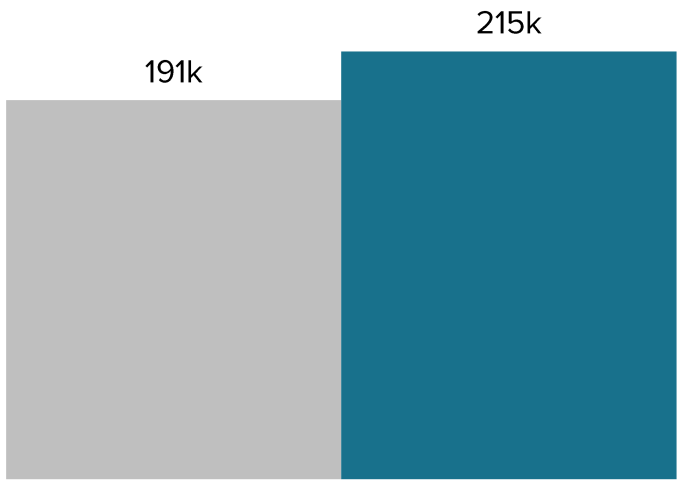
VISITORS

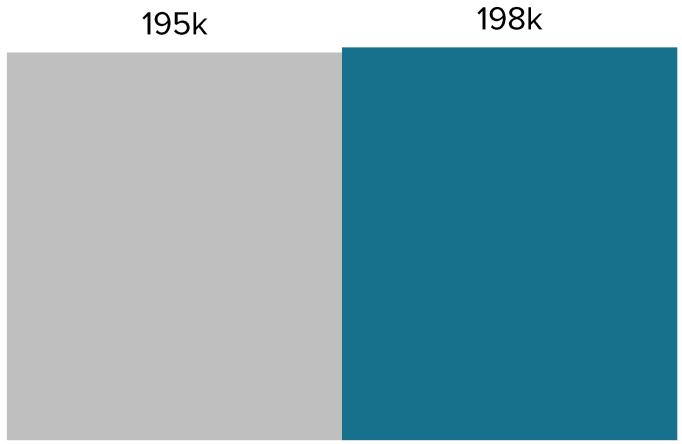
215,300



+ **12.8%** from 2024

ROOM NIGHTS

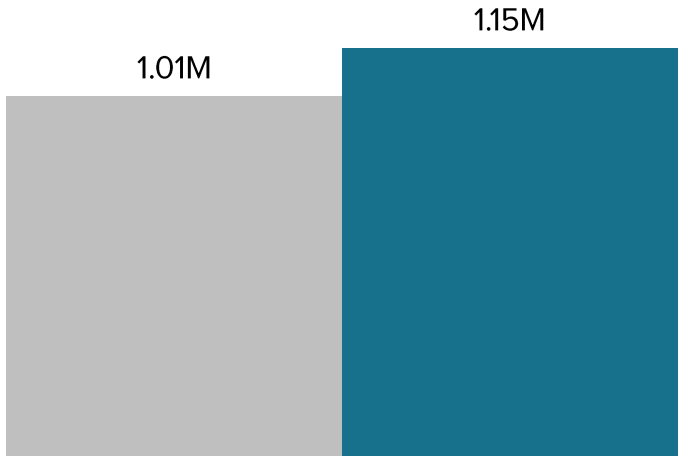
197,800



+ **1.3%** from 2024

VISITOR DAYS

1,149,700



+ **13.5%** from 2024

October-24 October-25

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OCTOBER 2025 | DIRECT SPENDING

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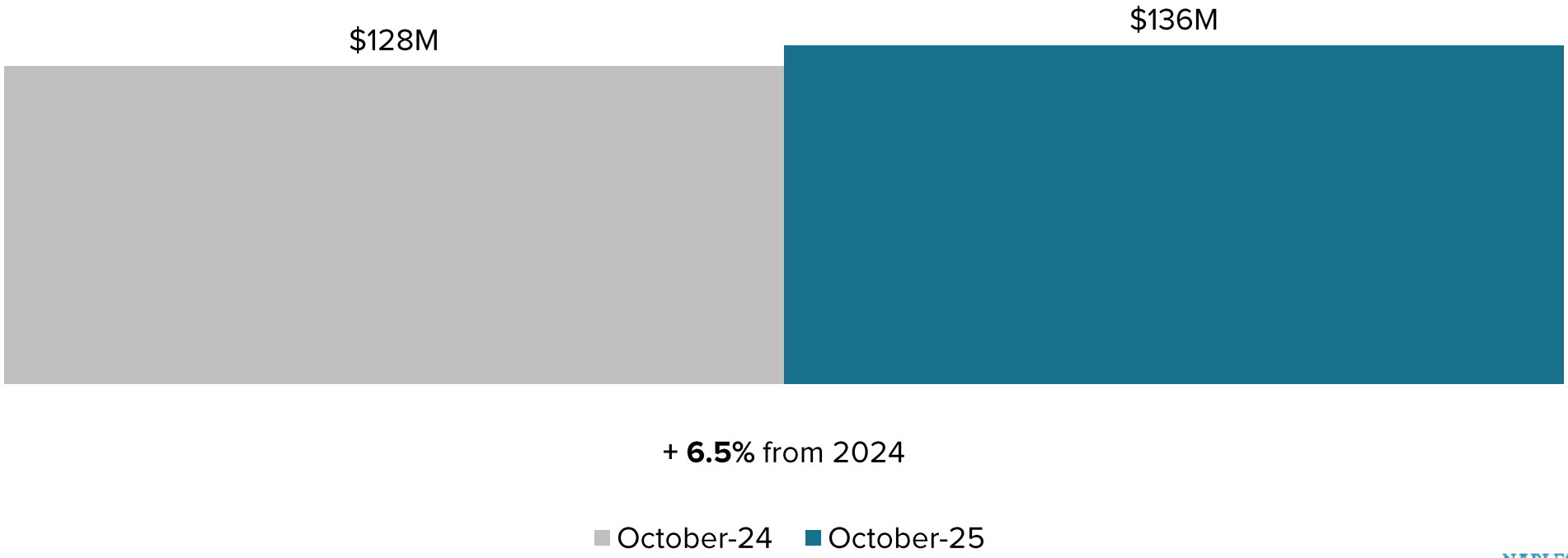
DIRECT SPENDING

$135,829,300



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OCTOBER 2025 | OVERALL LODGING METRICS[1,2]

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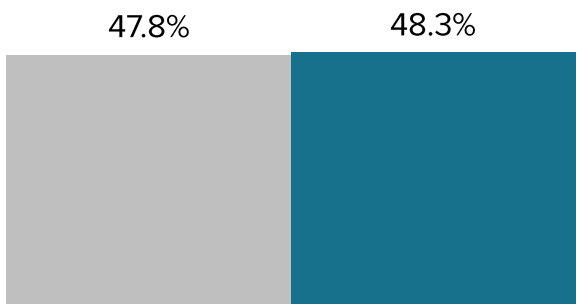
OCCUPANCY RATE

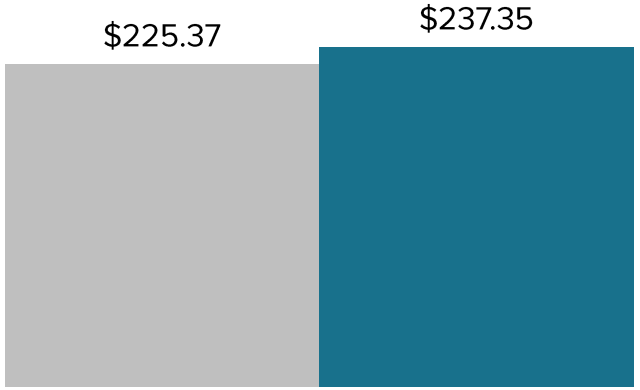
48.3%



+ **1.0%** from 2024

AVERAGE DAILY RATE

$237.35



+ **5.3%** from 2024

REVENUE PER AVAILABLE ROOM

$114.64



+ **6.4%** from 2024

October-24 October-25

[1] Sources: STR data & DSG Occupancy Study data.
[2] Overall Lodging Metrics are reflective of paid accommodations as a whole, including both hotels and vacation rentals within Collier County.

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OCTOBER 2025 | HOTEL LODGING METRICS[1,2]

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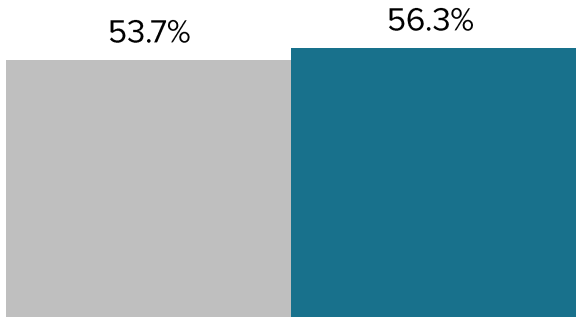
OCCUPANCY RATE

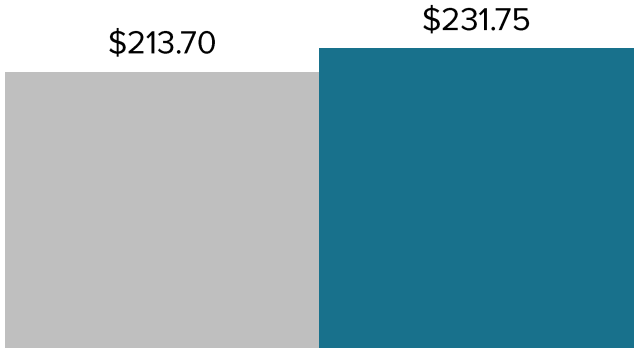
56.3%



+ **4.9%** from 2024

AVERAGE DAILY RATE

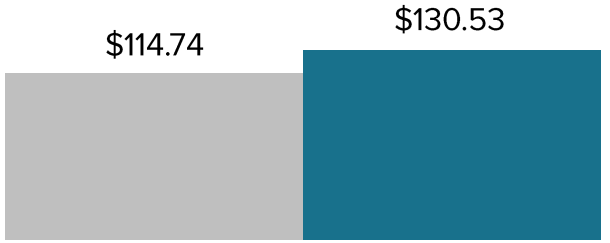
$231.75



+ **8.4%** from 2024

REVENUE PER AVAILABLE ROOM

$130.53



+ **13.8%** from 2024

October-24 October-25

[1]Source: STR data
[2] Lodging metrics on this slide are only reflective of the hotels within Collier County.

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OCTOBER 2025 | VISITOR ORIGINS

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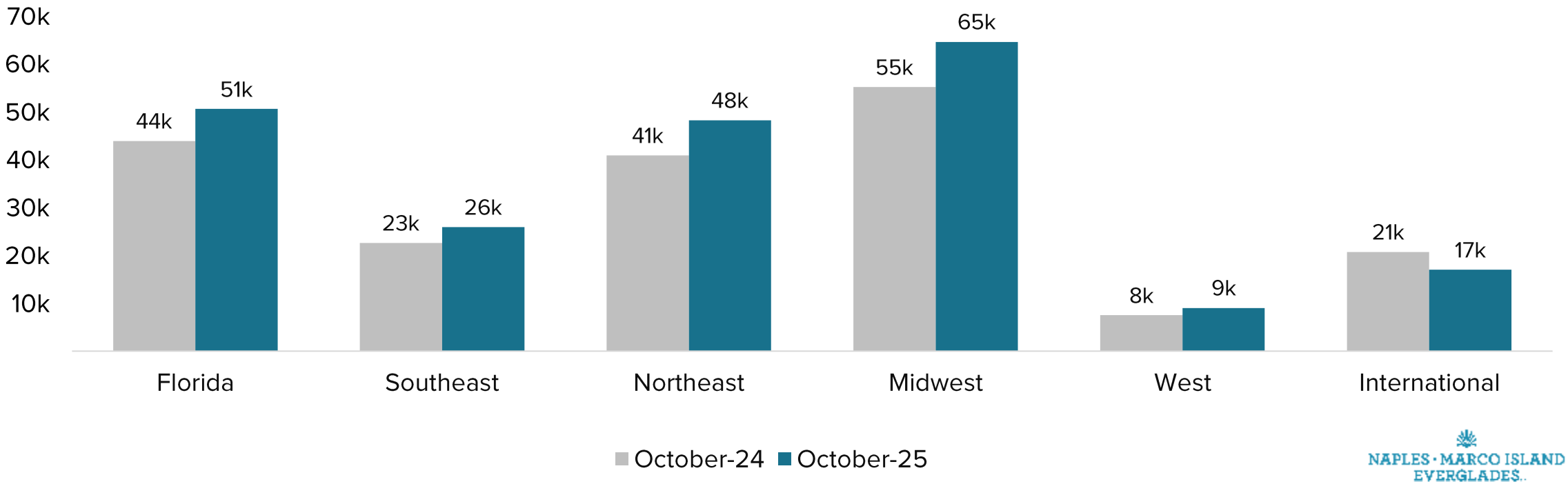
FLORIDA VISITORS

50,600

OUT-OF-STATE VISITORS

164,700



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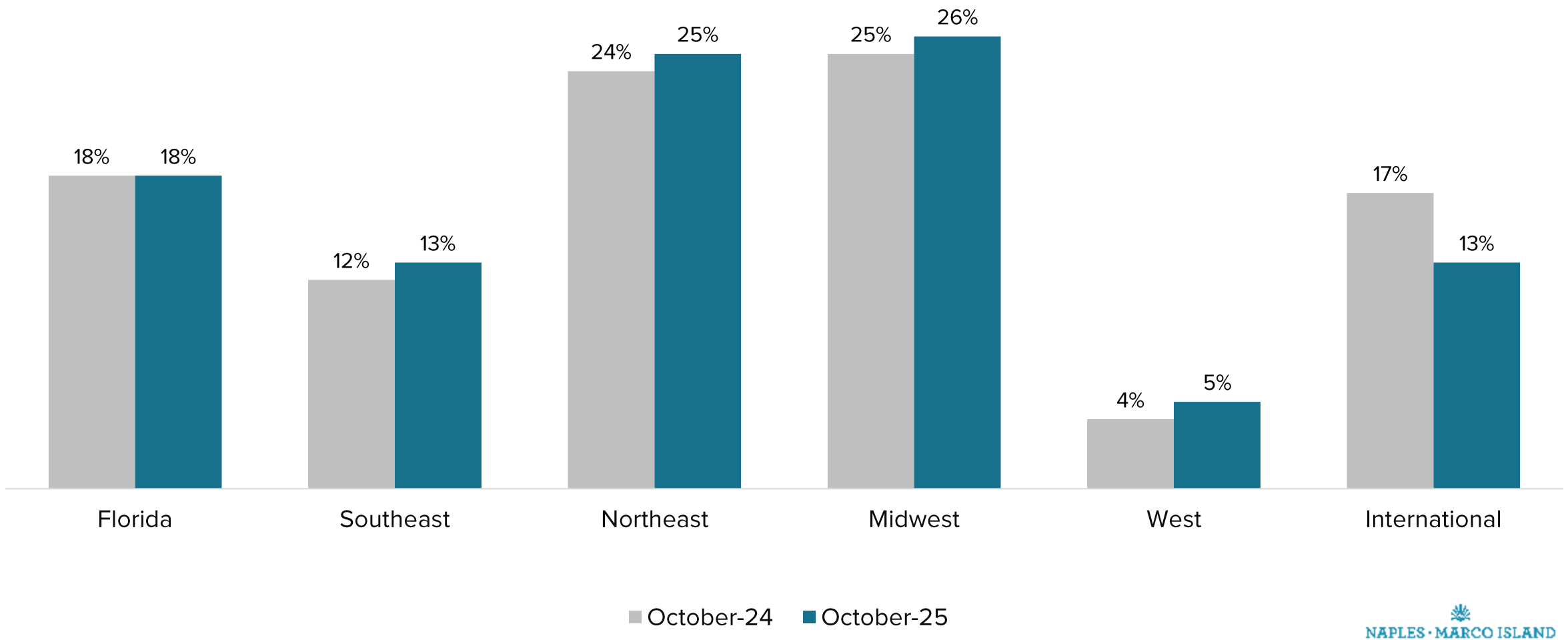
OCTOBER 2025 | PAID OVERNIGHT VISITOR ORIGINS



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MONTHLY DESTINATION COMPARISONS

OCTOBER 2025 COMPARISONS | SUPPLY[1]

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	Hotel Supply (Rooms)	Δ% in Supply from October 2024
	Total	Total
Miami	1,991,409	- 1.8%
Ft. Lauderdale	1,189,873	- 1.6%
Palm Beach	592,193	+ 0.1%
Ft. Myers	405,294	+ 13.5%
Sarasota	390,662	+ 1.4%
Florida Keys	333,405	+ 0.2%
St. Petersburg	330,181	+ 4.9%
Clearwater	285,293	+ 6.2%
Naples	264,027	+ 2.0%

[1] Metrics provided by STR.

OCTOBER 2025 COMPARISONS | DEMAND[1]

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	Hotel Demand (Rooms)				Δ% in Demand from October 2024			
	Transient[2]	Group[3]	Contract[4]	Total	Transient[2]	Group[3]	Contract[4]	Total
Miami	1,056,392	195,086	81,511	1,332,990	- 1.5%	- 20.3%	+ 5.7%	- 4.4%
Ft. Lauderdale	622,929	132,496	18,763	774,188	- 6.1%	- 5.7%	+ 13.8%	- 5.7%
Palm Beach	285,259	96,749	7,321	389,329	- 0.5%	- 1.8%	+ 15.2%	- 0.6%
Sarasota	180,062	35,712	11,645	227,418	- 15.5%	- 48.2%	+ 136.1%	- 20.7%
Ft. Myers	170,378	35,016	13,985	219,379	+ 6.2%	- 28.2%	+ 15.4%	- 0.9%
Florida Keys	180,100	24,076	695	204,871	+ 18.4%	+ 3.3%	- 33.4%	+ 16.1%
St. Petersburg	149,050	43,644	1,054	193,748	+ 8.0%	- 45.4%	- 70.0%	- 12.5%
Clearwater	136,142	34,553	0	170,695	+ 29.3%	- 56.3%	-	- 7.4%
Naples	104,828	43,883	0	148,711	+ 7.5%	+ 7.1%	- 100.0%	+ 7.1%

[1] Metrics provided by STR.
[2] Transient bookings include rooms sold to individuals or groups occupying less than 10 rooms per night.
[3] Group bookings include bookings of 10 rooms or more per night, sold pursuant to a signed agreement.
[4] Contract bookings include a consistent block of rooms committed at stipulated contract rates for an extended period longer than 30 days, with payment guaranteed regardless of use, such as for airline crews and long-term guests.

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OCTOBER 2025 COMPARISONS | OCCUPANCY[1]

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	Hotel Occupancy (%)				Δ% in Occupancy from October 2024			
	Transient[2]	Group[3]	Contract[4]	Total	Transient[2]	Group[3]	Contract[4]	Total
Miami	53.0%	9.8%	4.1%	66.9%	+ 0.3%	- 18.9%	+ 7.6%	- 2.7%
Palm Beach	48.2%	16.3%	1.2%	65.7%	- 0.6%	- 1.9%	+ 15.1%	- 0.6%
Ft. Lauderdale	52.4%	11.1%	1.6%	65.1%	- 4.6%	- 4.2%	+ 15.7%	- 4.1%
Florida Keys	54.0%	7.2%	0.2%	61.4%	+ 18.2%	+ 3.1%	- 33.6%	+ 15.9%
Clearwater	47.7%	12.1%	0.0%	59.8%	+ 21.7%	- 58.8%	0.0%	- 12.8%
St. Petersburg	45.1%	13.2%	0.3%	58.7%	+ 3.0%	- 48.0%	- 71.4%	- 16.6%
Sarasota	46.1%	9.1%	3.0%	58.2%	- 16.6%	- 49.0%	+ 132.8%	- 21.8%
Naples	39.7%	16.6%	0.0%	56.3%	+ 5.4%	+ 4.9%	- 100.0%	+ 4.9%
Ft. Myers	42.0%	8.6%	3.5%	54.1%	- 6.4%	- 36.7%	+ 1.7%	- 12.6%

[1] Metrics provided by STR.
[2] Transient bookings include rooms sold to individuals or groups occupying less than 10 rooms per night.
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[4] Contract bookings include a consistent block of rooms committed at stipulated contract rates for an extended period longer than 30 days, with payment guaranteed regardless of use, such as for airline crews and long-term guests.

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OCTOBER 2025 COMPARISONS | REVENUE[1]

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	Hotel Revenue (Millions of Dollars)				Δ% in Revenue from October 2024			
	Transient[2]	Group[3]	Contract[4]	Total	Transient[2]	Group[3]	Contract[4]	Total
Miami	$187.15	$43.19	$10.06	$240.40	- 13.2%	- 23.3%	+ 7.1%	- 14.5%
Ft. Lauderdale	$94.21	$27.98	$2.39	$124.58	- 13.9%	+ 0.4%	+ 11.9%	- 10.7%
Palm Beach	$57.14	$24.91	$0.84	$82.90	+ 6.2%	+ 12.6%	+ 22.7%	+ 8.2%
Florida Keys	$49.21	$7.13	$0.15	$56.49	+ 13.0%	+ 6.8%	- 35.3%	+ 12.0%
Sarasota	$30.12	$7.55	$1.32	$38.98	- 10.1%	- 41.5%	+ 127.3%	- 17.0%
Naples	$22.16	$12.31	$0.00	$34.46	+ 11.9%	+ 25.2%	- 100.0%	+ 16.1%
St. Petersburg	$23.08	$7.10	$0.11	$30.29	+ 8.8%	- 45.7%	- 69.4%	- 12.6%
Ft. Myers	$22.95	$5.40	$1.66	$30.01	+ 9.5%	- 22.5%	+ 17.6%	+ 2.3%
Clearwater	$23.42	$6.35	$0.00	$29.77	+ 53.8%	- 57.1%	-	- 0.9%

[1] Metrics provided by STR.
[2] Transient bookings include rooms sold to individuals or groups occupying less than 10 rooms per night.
[3] Group bookings include bookings of 10 rooms or more per night, sold pursuant to a signed agreement.
[4] Contract bookings include a consistent block of rooms committed at stipulated contract rates for an extended period longer than 30 days, with payment guaranteed regardless of use, such as for airline crews and long-term guests.

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OCTOBER 2025 COMPARISONS | DAILY RATE[1]

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	Hotel Average Daily Rate ($)				Δ% in ADR from October 2024			
	Transient[2]	Group[3]	Contract[4]	Total	Transient[2]	Group[3]	Contract[4]	Total
Florida Keys	$273.26	$296.25	$211.44	$275.75	- 4.5%	+ 3.3%	- 2.8%	- 3.5%
Naples	$211.37	$280.43	$0.00	$231.75	+ 4.0%	+ 17.0%	- 100.0%	+ 8.4%
Palm Beach	$200.31	$257.51	$115.11	$212.92	+ 6.7%	+ 14.7%	+ 6.6%	+ 8.8%
Miami	$177.16	$221.40	$123.43	$180.35	- 11.9%	- 3.8%	+ 1.3%	- 10.6%
Clearwater	$172.01	$183.70	$0.00	$174.38	+ 19.0%	- 2.0%	0.0%	+ 7.0%
Sarasota	$167.25	$211.31	$113.42	$171.41	+ 6.3%	+ 13.0%	- 3.7%	+ 4.7%
Ft. Lauderdale	$151.23	$211.20	$127.34	$160.92	- 8.3%	+ 6.5%	- 1.7%	- 5.3%
St. Petersburg	$154.86	$162.62	$104.39	$156.33	+ 0.8%	- 0.4%	+ 2.0%	0.0%
Ft. Myers	$134.72	$154.25	$118.51	$136.80	+ 3.1%	+ 7.9%	+ 1.9%	+ 3.2%

[1] Metrics provided by STR.
[2] Transient bookings include rooms sold to individuals or groups occupying less than 10 rooms per night.
[3] Group bookings include bookings of 10 rooms or more per night, sold pursuant to a signed agreement.
[4] Contract bookings include a consistent block of rooms committed at stipulated contract rates for an extended period longer than 30 days, with payment guaranteed regardless of use, such as for airline crews and long-term guests.

OCTOBER 2025 COMPARISONS | REVPAR

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	Hotel Revenue Per Available Room ($)				Δ% in RevPAR from October 2024			
	Transient[2]	Group[3]	Contract[4]	Total	Transient[2]	Group[3]	Contract[4]	Total
Florida Keys	$147.61	$21.39	$0.44	$169.44	+ 12.8%	+ 6.6%	- 35.4%	+ 11.8%
Palm Beach	$96.49	$42.07	$1.42	$139.98	+ 6.1%	+ 12.6%	+ 22.6%	+ 8.1%
Naples	$83.92	$46.61	$0.00	$130.53	+ 9.6%	+ 22.7%	- 100.0%	+ 13.8%
Miami	$93.98	$21.69	$5.05	$120.72	- 11.6%	- 21.9%	+ 9.0%	- 13.0%
Ft. Lauderdale	$79.17	$23.52	$2.01	$104.70	- 12.5%	+ 2.1%	+ 13.8%	- 9.2%
Clearwater	$82.08	$22.25	$0.00	$104.33	+ 44.8%	- 59.7%	0.0%	- 6.7%
Sarasota	$77.09	$19.32	$3.38	$99.79	- 11.4%	- 42.3%	+ 124.1%	- 18.2%
St. Petersburg	$69.91	$21.50	$0.33	$91.74	+ 3.8%	- 48.2%	- 70.8%	- 16.6%
Ft. Myers	$56.63	$13.33	$4.09	$74.05	- 3.5%	- 31.7%	+ 3.7%	- 9.9%

[1] Metrics provided by STR.
[2] Transient bookings include rooms sold to individuals or groups occupying less than 10 rooms per night.
[3] Group bookings include bookings of 10 rooms or more per night, sold pursuant to a signed agreement.
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5

INDUSTRY DATA

INDUSTRY DATA | CURRENT EMPLOYMENT

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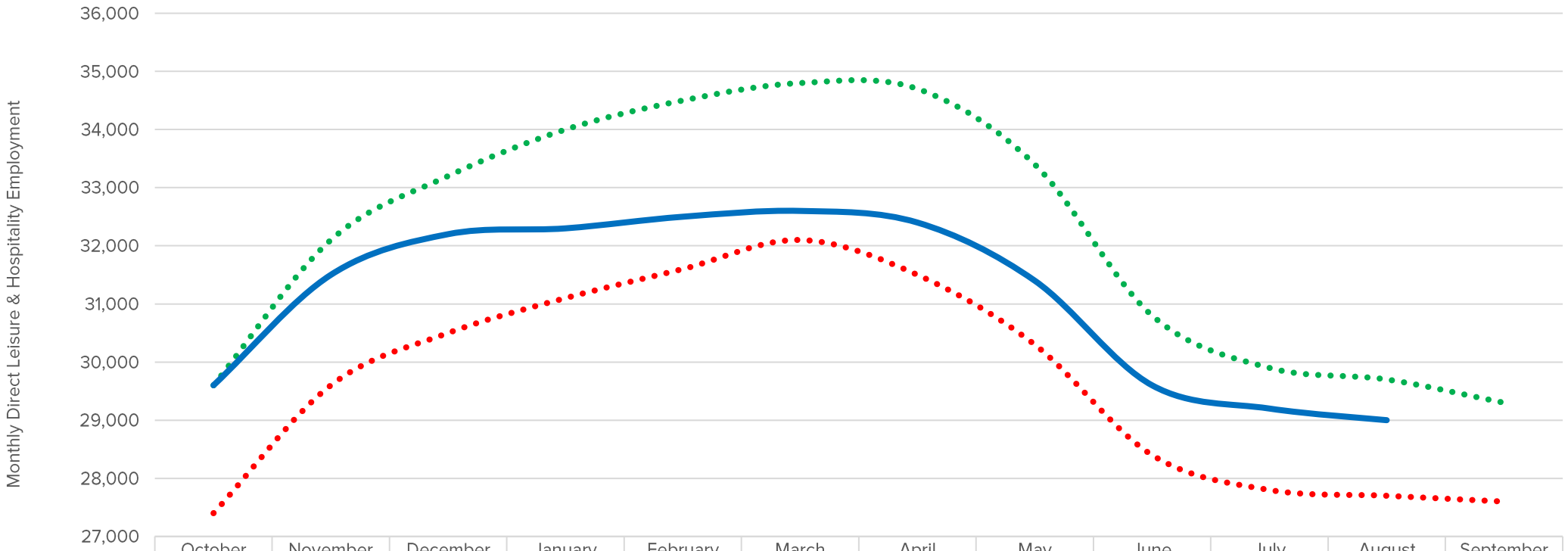
Collier County Direct Leisure and Hospitality Employment[1]



	October	November	December	January	February	March	April	May	June	July	August	September
FY23	27,400	29,600	30,500	31,100	31,600	32,100	31,500	30,300	28,400	27,800	27,700	27,600
FY24	29,600	32,100	33,200	34,000	34,500	34,800	34,700	33,400	30,800	29,900	29,700	29,300
FY25	29,600	31,500	32,200	32,300	32,500	32,600	32,400	31,400	29,600	29,200	29,000 (P)	Not Available Yet

[1] SOURCE: Current Employment Statistic Program (CES), Collier County Leisure and Hospitality Sector, not seasonally adjusted.
(P) Preliminary.

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INDUSTRY DATA | RSW TOTAL PASSENGER TRAFFIC

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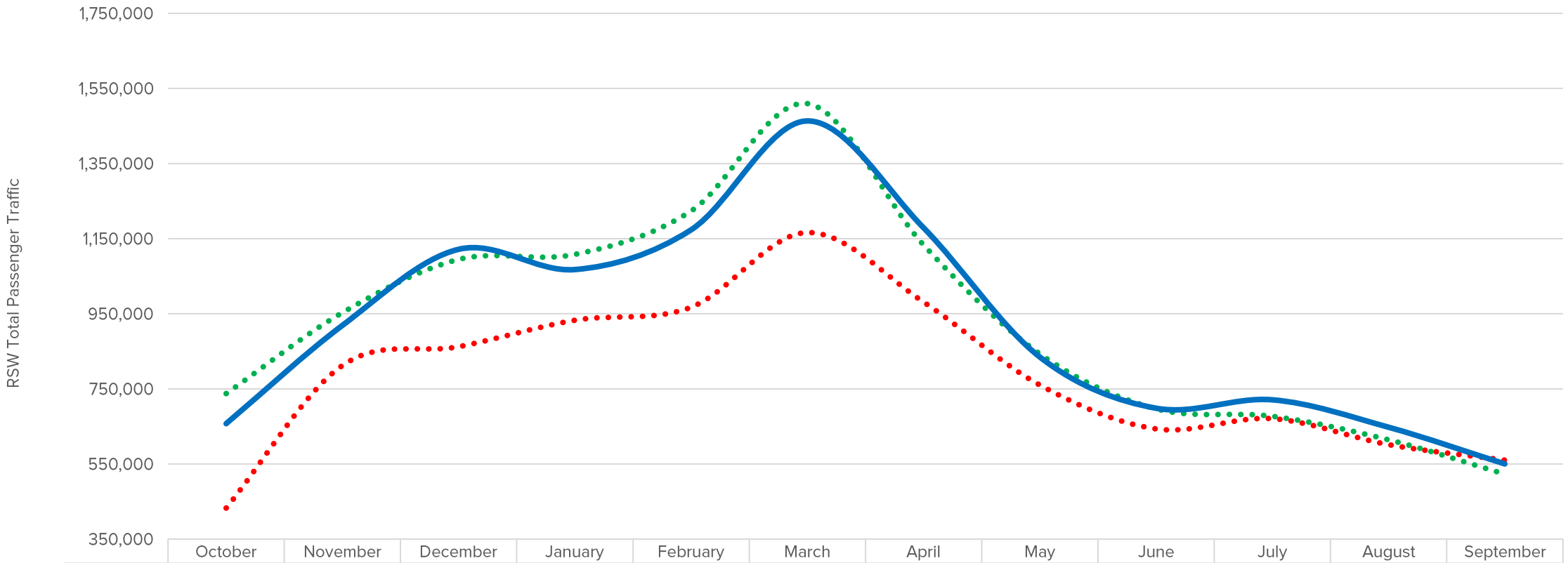
Southwest Florida International Airport (RSW) Total Passenger Traffic[1]



	October	November	December	January	February	March	April	May	June	July	August	September
FY23	432,667	812,305	862,368	932,896	967,416	1,166,442	981,216	760,330	643,486	670,818	601,542	560,358
FY24	737,527	953,025	1,094,783	1,108,190	1,223,761	1,509,777	1,133,256	843,270	696,867	677,137	614,531	523,004
FY25	657,488	919,108	1,121,793	1,067,794	1,173,638	1,463,628	1,178,980	834,862	698,573	720,973	647,917	550,259

[1]SOURCE: Lee County Port Authority Monthly Statistics.

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INDUSTRY DATA | RSW INFLOW (DEPLANEMENTS)

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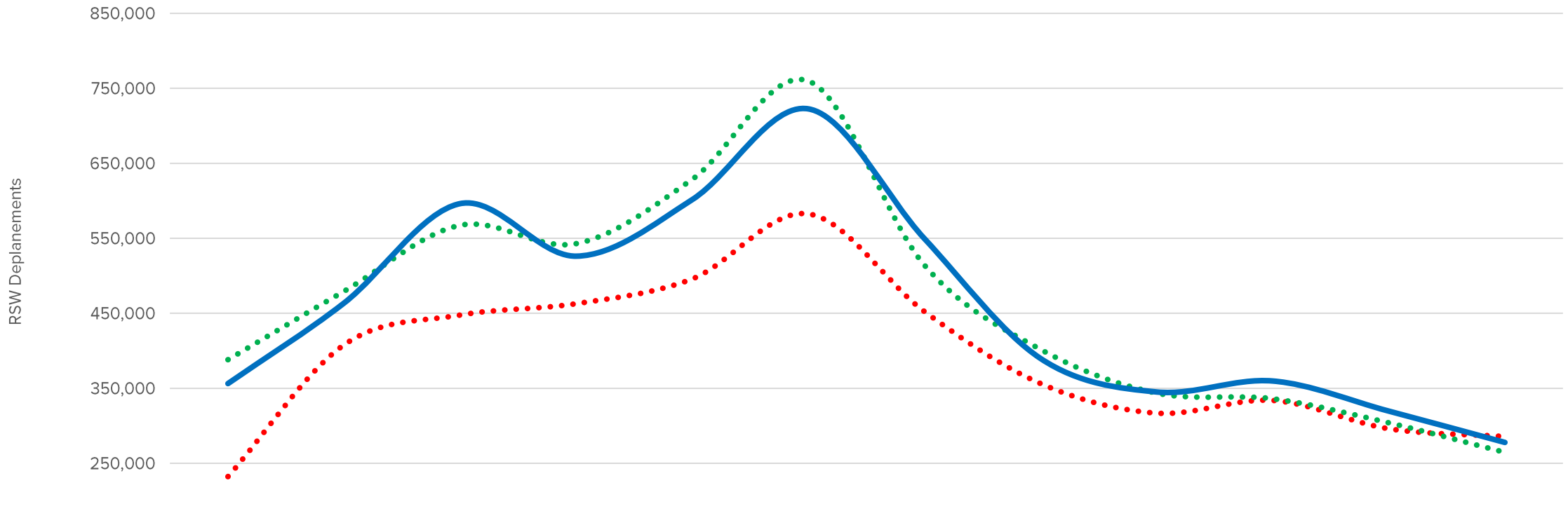
Southwest Florida International Airport (RSW) Deplanements[1]



	October	November	December	January	February	March	April	May	June	July	August	September
FY23	232,239	407,927	447,666	462,851	495,943	582,580	452,356	356,361	316,887	333,862	296,092	285,679
FY24	388,153	479,404	567,439	542,929	628,786	759,836	514,166	401,868	343,614	336,069	303,982	264,625
FY25	356,316	463,688	596,290	526,231	601,672	722,642	549,572	389,793	345,133	359,761	319,590	277,820

[1]SOURCE: Lee County Port Authority Monthly Statistics.

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INDUSTRY DATA | RSW OUTFLOW (ENPLANEMENTS)

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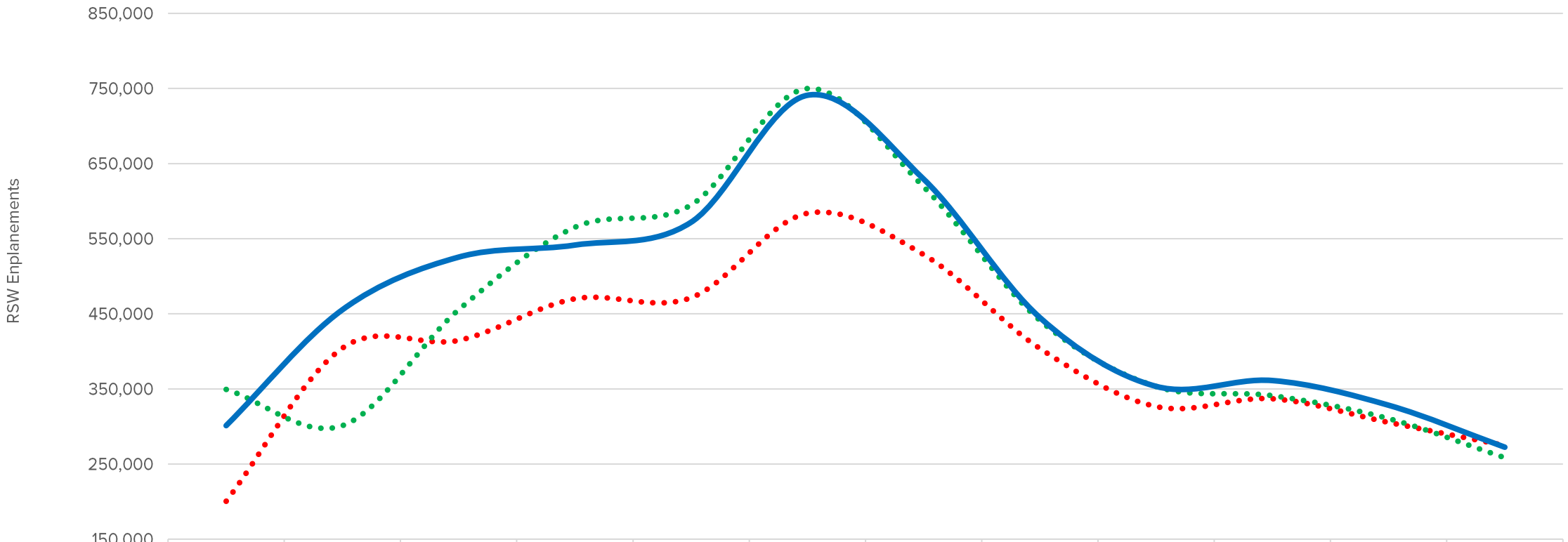
Southwest Florida International Airport (RSW) Enplanements[1]



	October	November	December	January	February	March	April	May	June	July	August	September
FY23	200,428	404,378	414,702	470,045	471,473	583,862	528,860	403,969	326,599	336,956	305,450	274,679
FY24	349,374	301,172	455,420	565,261	594,975	749,941	619,090	441,402	353,253	341,068	310,549	258,379
FY25	301,172	455,420	525,503	541,563	571,966	740,986	629,408	445,069	353,440	361,212	328,327	272,439

[1]SOURCE: Lee County Port Authority Monthly Statistics.

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INDUSTRY DATA | FY25 RSW INFLOW VS. OUTFLOW

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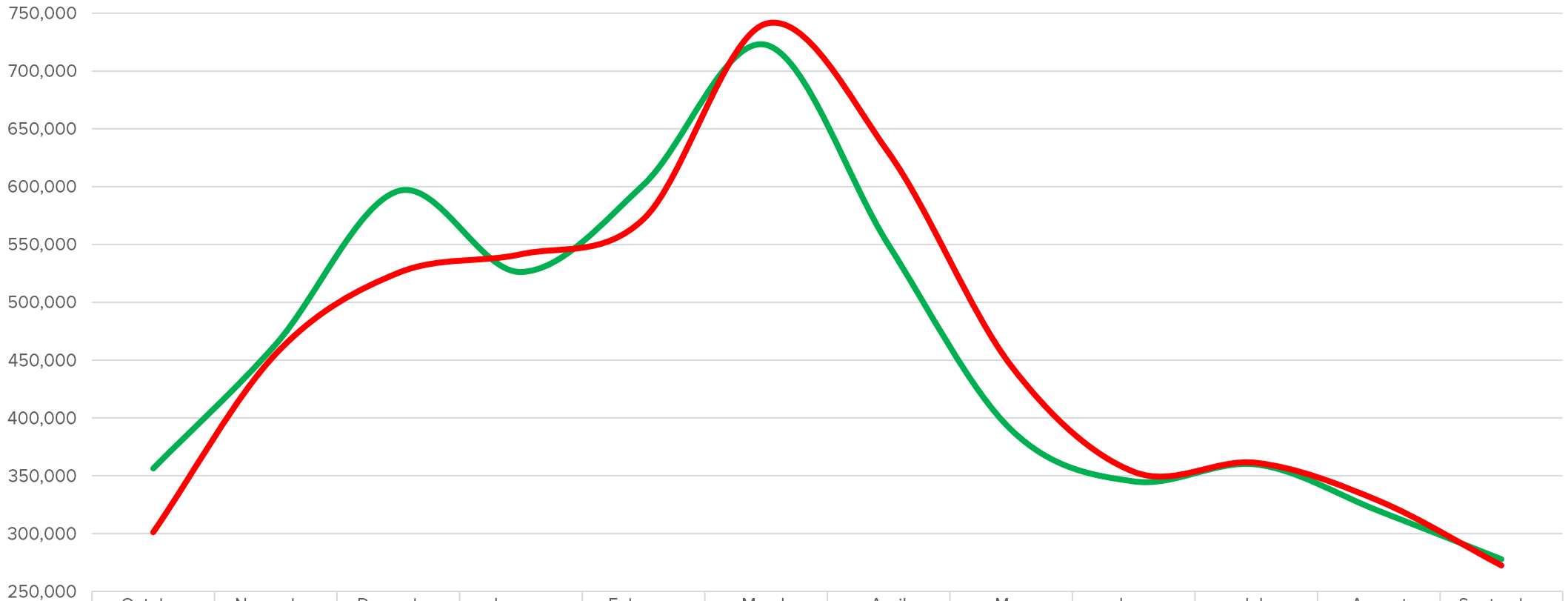
Southwest Florida International Airport (RSW) Inflow (Deplanements) vs. Outflow (Enplanements)[1]



	October	November	December	January	February	March	April	May	June	July	August	September
INFLOW	356,316	463,688	596,290	526,231	601,672	722,642	549,572	389,793	345,133	359,761	319,590	277,820
OUTFLOW	301,172	455,420	525,503	541,563	571,966	740,986	629,408	445,069	353,440	361,212	328,327	272,439

[1] SOURCE: Lee County Port Authority Monthly Statistics.

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INDUSTRY DATA | LICENSED RENTAL UNITS

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Licensed Transient Rental Units as of November 1st, 2025[1]				
	Hotel	Motel	Vacation Rental	Total
Naples	5,473	1,256	3,351	**10,080**
Marco Island	1,275	121	2,093	**3,489**
Immokalee	0	70	106	**176**
Everglades City	38	36	8	**82**
Goodland	0	0	31	**31**
Chokoloskee	0	13	1	**14**
Ave Maria	0	0	3	**3**
Total	**6,786**	**1,496**	**5,593**	**13,875**

[1] SOURCE: Florida Department of Business & Professional Regulation.

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FLORIDA'S PARADISE COAST

October 2025 Monthly Visitor Dashboard



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FLORIDA'S PARADISE COAST

Monthly Report | October 2025

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1

Zartico
Visitor Insights

Zartico: Visitor Insights | October 2025

Out-Of-State In-State Visitors

Out-of-state visitors made up 51% of visits and 85 % of overall spend in October 2025

In-state visitors made up 49% of visits and 15% of overall spend

Out of State visitation outperformed in-state stats for visitor spending

Overnight Vs. Day Visitation

Day visitors (63%)

Overnight visitors (37%)

Top DMA Spending Market

Chicago, IL ranked as the top DMA in spending market

Followed by: Minneapolis, Miami, and New York, NY

Chicago. IL visitors spent more on Food and Beverage and Retail

Top Overnight Markets

Miami-Ft Lauderdale overnight visitors continue to rank #1 in top visitation for the month of October

Followed by: Tampa-St Petersburg, FL, West Palm Beach and Orlando, FL

Top 2 Out-Of-State: New York, NY and Chicago DMAs

Destination Visitation

In-state top visited place in October: **Fakapachee Strand Preserve State Park**

Out-of-State top visited place in October: **Naples Grande Beach Resort followed by Vanderbilt Beach**

Zartico: Visitor Insights | October 2025

56%	$232	$130.63
October Hotel Occupancy	Hotel ADR	Hotel RevPAR

ZARTICO

*Approximate total, all final Nov invoices not received yet



2

Organic Social Media

Social Media (Organic) - Summary

- Implemented annual content strategy across all social media platforms.
- Conducted day-to-day operations, including but not limited to content creation, LIVE streams, content curation, and reporting/analysis, etc.
- Completed the November 2025 content calendars to be shared across social media platforms.
- Established Facebook LIVE and Instagram Story topics for Client to implement in November 2025.
- Supported Client in community management, social listening, optimization, and reporting/analysis, etc.
- Increased timely event coverage resulting in more live story shares, recap videos and an asset library which will be used for future event promotions.
- Completed content captures for Stone Crab content series.



Page 137 of 138

Organic Social | Facebook

65,320 Followers	+864 Net Growth ↑
9,513 Engagements	39.9% Increase ↑
461,126 Impressions	60.4% Decrease ↓

Summary:

In October we continued to see steady follower growth, adding 864 new followers for a total of 65,320. Engagements increased in October by 39%. While the overall impressions dipped in October, the Organic Impressions increased 22% over September, signaling that our organic content is continuing to reach new audiences and perform well when viewed. This dip in overall impressions is consistent with previous years for the season.

Our top-performing posts for October include a **Stone Crab Festival** reel, a **Beaches of Naples reel,** and a timely-captured reel highlighting **the JW Marriott Marco Island Beach Resort.**

Looking ahead, we'll keep prioritizing timely content captures, with a renewed emphasis on live Stories to drive interaction and event coverage to maintain momentum as we move into the remainder of the year.

Organic Social | Instagram

24,897 Followers	+214 Net Growth ↑
5,695 Engagements	91.6% Increase ↑
226,087 Impressions	60.3% Increase ↑
100,000 Video Views	139.1% Increase ↑

Summary:

On Instagram, we added 214 new followers in October, continuing steady growth. Engagements increased by 91% and impressions for Instagram also increased 60% in October signaling that our content is performing well with those who view it as well as reaching new followers.

Top-performing content included a feature reel for **JW Marriott Marco Island Beach Resort**, a carousel post **highlighting FC Naples** and a reel featuring the new **Books on Third store opening.**

Looking ahead, we'll focus on increasing engagement momentum by producing more timely-captured reels and timely, interactive content throughout November with the use of event coverage, ManyChat and daily interactive stories on Instagram.

Media | Organic Social

Year-To-Date			
Instagram	**226,087** Total Impressions	**5,695** Post Engagements	**24,897** Total Followers
Facebook	**461,126** Total Impressions	**9,513** Post Engagements	**65,320** Total Followers

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3
Email

Email | Lesiure E-Scapes

Subject Line: Plan a Fall Escape to Florida's Paradise Coast

Most-Clicked Link: A 3- Day Stone Crab Tasting Tour Across Florida's Paradise Coast

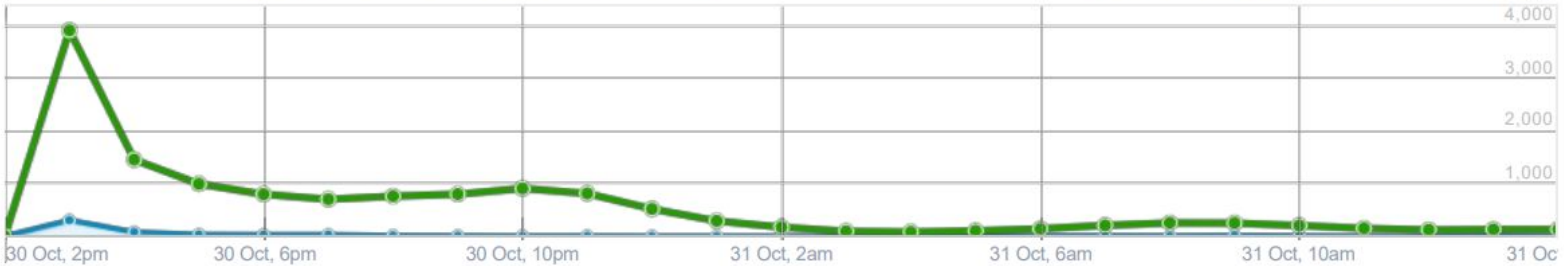
Recipients	Open Rate	CTO Rate
55,997 Owned	20.0% Owned	19.61% Owned

CCT-0963 - FY25 Consumer Escapes-October

Sent Oct 30, 2025 at 3:02PM

Sent to 55,997 unique subscribers in _Consumer E-scapes

Opens and Link Clicks for first day



Email | Meetings E-Scapes

Subject Line: Fall for Meetings on Florida's Paradise Coast

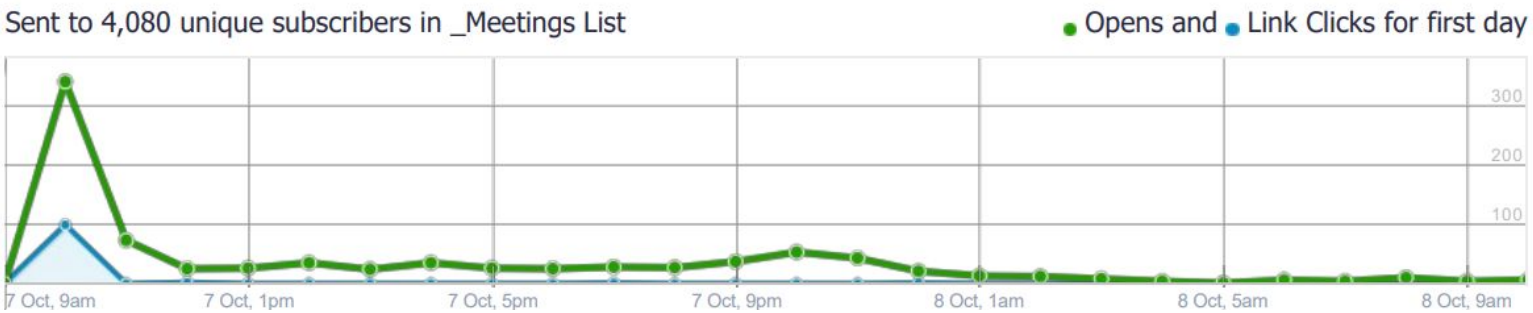
Most-Clicked Link: www.paradisecoast.com/meetings/Request-for-Proposals-Meetings

Recipients	Open Rate	CTO Rate
4,080 Owned	19.24% Owned	18.76% Owned

CCT-0965 FY25 Meeting Escapes-October

Sent Oct 07, 2025 at 10:02AM

Sent to 4,080 unique subscribers in _Meetings List





THANK YOU



Website Analytics

October 2025 I December 12, 2025

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NAPLES · MARCO ISLAND EVERGLADES
FLORIDA'S PARADISE COAST

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Campaign

Oct 1, 2025 - Oct 31, 2025

Sessions	Engaged sessions	Engagement rate	Total users	Average session duration
29.3K	26.8K	91.5%	25.5K	02:30
-20.8%	-19.8%	1.3%	-21.0%	0.2%



- Sessions saw slight declines from September, following the **pausing on all paid media campaigns with Sizzle Dining ending.**
- **Paid Search re-activated October 29th.**
- **Engagement Rate** and **Average Session Duration** stayed flat, showing the overall base of strong engaged users stayed flowing to the site.
- Traffic stayed relatively steady throughout the month with slight dips and increases, indicating a **resilient and loyal core audience.**

Top 5 Pages

Landing page	Sessions ▼	% Δ	Engaged sessions	% Δ	Engagement rate	% Δ	Avg Time on Site	% Δ
/Meetings	4.01K	-11.2%	3.37K	-11.2%	84.1%	0.1%	00:01:25	-63.6%
/Home	3.28K	-14.4%	3.07K	-10.4%	93.65%	4.7%	00:02:27	-8.9%
/Articles/Foodies-Itinerary-for-the-Naples-Stone-Crab-Festival	2.18K	1,715.0%	2.13K	1,734.5%	97.7%	1.1%	00:03:05	-18.4%
/Beaches	1.90K	-45.8%	1.87K	-46.1%	98.79%	-0.7%	00:00:45	136.4%
/Things-to-Do/Events	1.48K	58.3%	1.45K	58.5%	97.91%	0.2%	00:03:07	-26.9%

- **Meetings took over as the top page**, indicating the potential to drive more users for Meetings.
- Overall sessions down MoM on the page but, engagement rate stayed flat, showing high quality users remained.
- Not surprising, the Home page was our second top page, and also had a very high time on site, which experienced the lowest drop in Average Time on Site.
- Users visiting the home page, spent the most time on the site, leading to them being among the most engaged.

Top States by Sessions

Region	Sessions ▼
Florida	8,293
Virginia	1,489
New York	1,277
Ohio	1,086
Georgia	1,049

Top Cities by Sessions

City	Sessions ▼
(not set)	3,004
Miami	1,187
Naples	646
Ashburn	558
New York	527

- **Florida continues to lead all markets** in total sessions, with **Miami & Naples** ranking in the top-performing cities.
- **Virginia jumped into the second spot**, along with New York, as the north eastern states continue to show potential markets.

Definitions

Sessions: Group of user interactions with your site or app that take place in a given time frame. Is initiated when a user views a page or screen and no other sessions is active, a session is end after 30 minutes of inactivity

Engaged Session: The number of sessions that lasted longer than 10 seconds, had a conversion event, or had 2 or more screens/page views

Engagement Rate: Percent of engaged sessions; the inverse of bounce rate; (Engaged Session / Sessions)

Total Users: The total number of unique users who logged an event on the site

Average Session Duration: The amount of time a user stays on the site across multiple pages, starting from the initial landing page to leaving the site

PoP % Change: Period over Period, the change in metric as a comparison to the previous period, in this case the previous month.

Thank You for Your Partnership.

Paradise
apartnerforgood.com

DATE: **November 4, 2025**

TO: **Jay Tusa, Sandra Rios**
Naples, Marco Island, Everglades CVB

FROM: **Erin Murphy, Mackenzie Comerer, Brittany Chapman**
Lou Hammond Group

CC: **Lou Hammond**

RE: **October 2025 TDC Report**

Following is a summary of services conducted by Lou Hammond Group on behalf of the Naples, Marco Island, Everglades CVB during October 2025.

1) MEDIA HIGHLIGHTS

TOTALS
Media Impressions: 5,678,408
Media Value: $82,742.77

Condé Nast Traveler - Online
October 1, 2025
UVM: 3,789,325
Ad Value: $64,424.61

Travelbinger - Online
October 20, 2025
UVM: 7,337
Ad Value: $67.87

The Atlanta Journal Constitution - Online
October 28, 2025
UVM: 1,881,746
Ad Value: $18,250.29

SAVEUR – Print
Fall/Winter Issue
CIRC: 40,000
Ad Value: 126,000

2) MEDIA RELATIONS

Media Visits

- Allison Danielle Nguyen, Vicarious Magazine (Oct. 7-10)

Upcoming

- Margulies, Freelance: Travel + Leisure, Parade, Nat Geo (Nov. 8-9)
- Suzanne Wright, Freelance: USA Today, Garden & Gun (Nov. 14-17)

- Paul Rubio, Freelance: Conde Nast Traveler, Travel + Leisure (Nov. 20-22)
- Perri O. Blumberg, Freelance: New York Post (Dec. 5-8)

3) PROJECTS/MEDIA OUTREACH

Media Events

- Lou Hammond Group attended the inaugural IMM LUX in Las Vegas, Oct. 1–2, 2025, connecting one-on-one with leading luxury editors, writers and creators to spotlight Florida's Paradise Coast as a premier destination for high-end travel coverage. Through 22 prescheduled meetings and exclusive networking events, LHG strengthened key media relationships and secured interest in 2026 editorial collaborations.

Monthly Pitches

- Where to Go in 2026
- Travel Trends of 2026
- Hallmark-Like Holiday Towns + Holiday Lights & Happenings
- Health & Wellness Resorts; Destinations for Rest & Relaxation
- State Parks That Rival National Parks
- Most Exciting Openings of Fall and Winters
- Sustainability: Stone Crab Season + Eco-Tourism Experiences in the Everglades
- Multi-Generational Travel

4) PARTNER COMMUNICATIONS

- Finalized "What's New in 2026" press release for PR and sales purposes

###

Collier COUNTY MUSEUMS

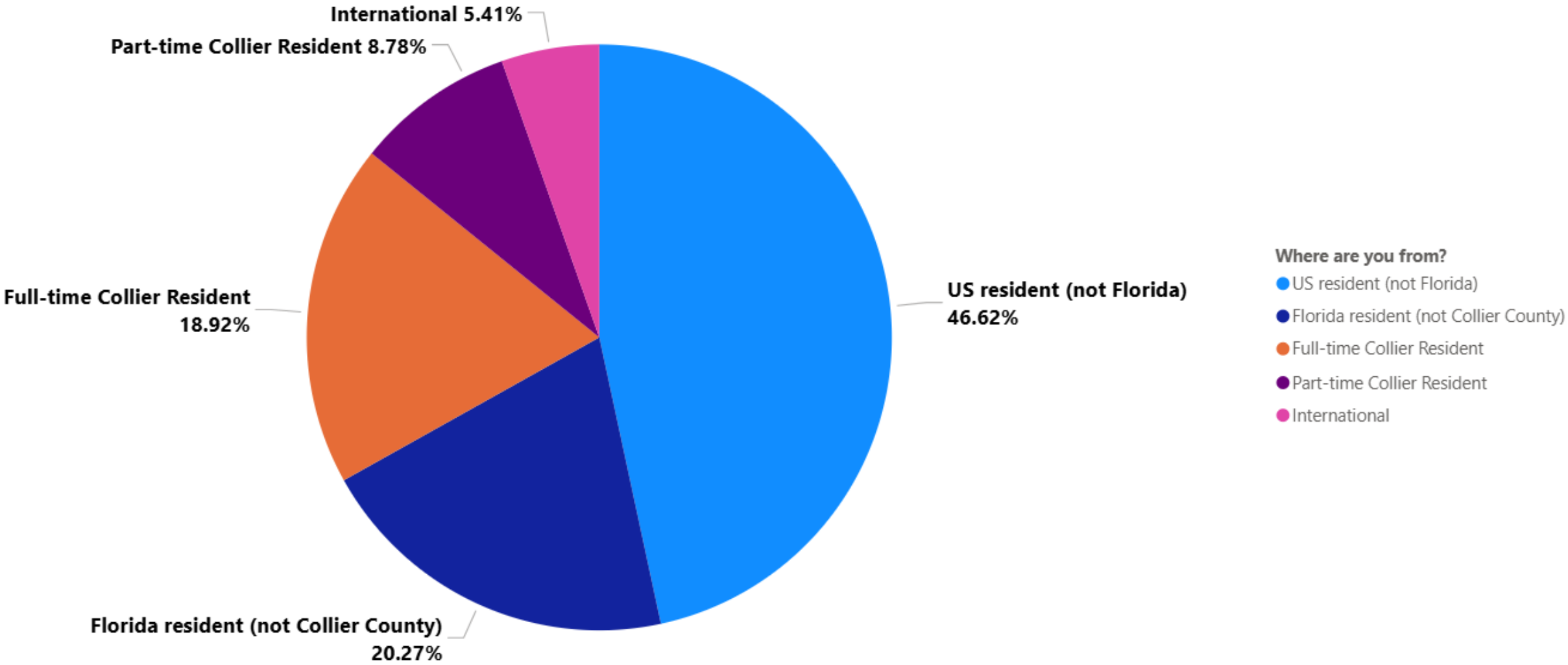
VISITATION October 2025

Reported to the Tourist Development Council for their December 12, 2025 meeting

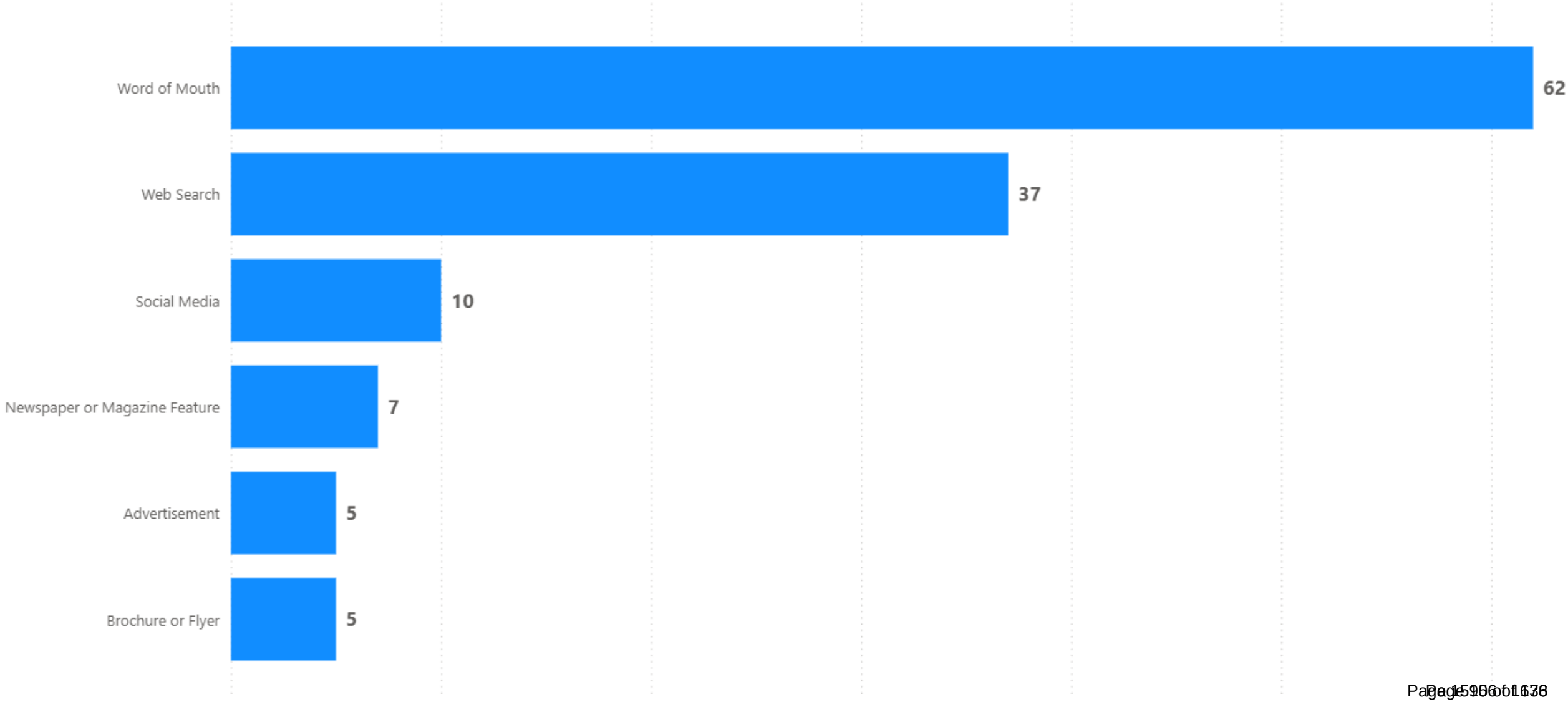
2,996 TOTAL VISITORS IN OCTOBER

	October 2024	October 2025
Collier Museum at Government Center	480	577
Immokalee Pioneer Museum at Roberts Ranch	464	741
Marco Island Historical Museum	915	1,084
Museum of the Everglades	575	594
Naples Depot Museum	0	0
TOTAL	**2,434**	**2,996**
Outreach: Educational	0	137
Outreach: Marketing	3,972	10,748

Where are you from?



How did you hear about us?



Free-Form Responses

How would you describe your experience at the museum today?

"This museum has the most extensive one we've ever seen. The property is large and the separate buildings that all show off different aspects of Collier"

"Great visit, we learned a lot."

Do you have any recommendations for improving the museum experience?

"It would be nice to possibly have a tour guide since the facility is so large although the building with the artifacts had a very nice lady in it."

"Make the bank across the street a museum."

Customer Satisfaction

Overall Experience

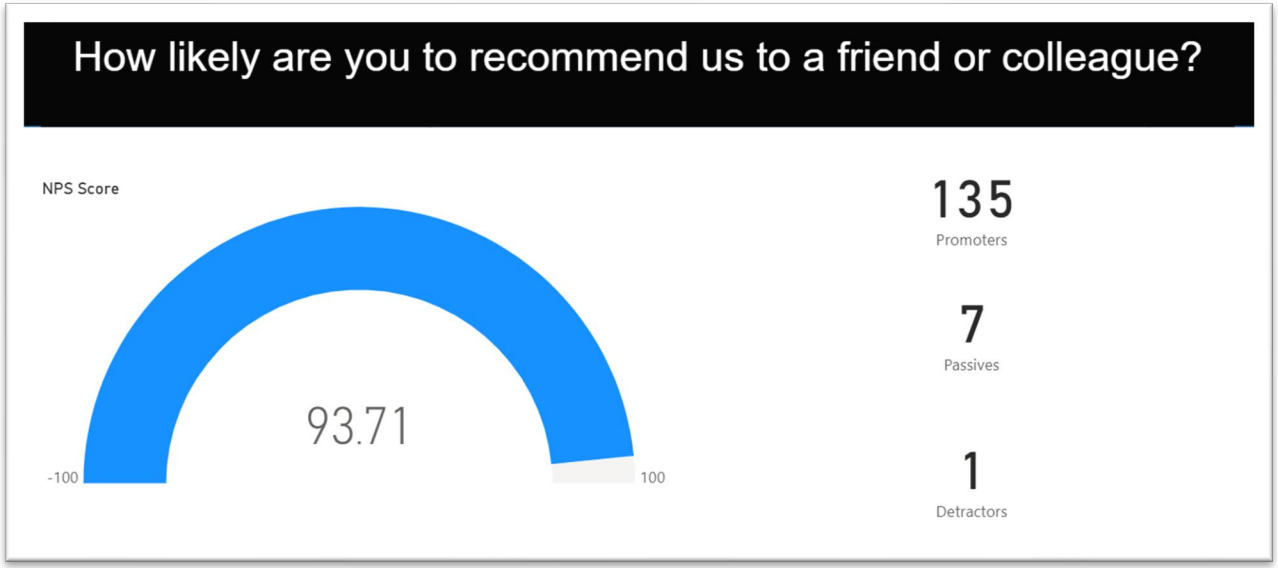
4.95

★★★★★

Service Satisfaction

4.99

★★★★★



Current Exhibits





Collier Museum at Government Center

November 29, 2025 to January 3, 2026

Museum of the Everglades

October 13, 2025
to
February 14, 2026





Aztek Dancers: A Living Tradition by Lisette Morales

Immokalee Pioneer Museum at Roberts Ranch

October 28, 2025 to January 31, 2026



MARCO ON THE MOVE

MARCO ISLAND HISTORICAL MUSEUM

NOVEMBER 8, 2025 TO MARCH 21, 2026

MODERN MARCO
60TH ANNIVERSARY CELEBRATION

NOVEMBER 13, 4 PM

UPCOMING PROGRAMS

Christmas Karaoke and Holiday Marketplace

Collier Museum at Government Center

December 19

Visit colliermuseums.com for more



UK & IRELAND MONTHLY REPORT
OMMAC Activities
Reporting Period: October 1-31, 2025

STRATEGIC HIGHLIGHTS

- Attended Brand USA Travel Week UK and Europe, 20-23 October 2025 - now in its seventh year, connecting U.S. destinations with leading international buyers and media from 20 countries. We help over 40 individual appointments and participated with the enrichment and learning programmes on current market updates, future opportunities, trends and technology.
- Florida's Paradise Coast was featured in print and online in The Sunday Post as a result of the group press trip in June 2025. Plus other coverage from the group trip, the *Overall Total Circulation: 4,700,492 | EAV: $207,006*

UK AND IRELAND MARKET UPDATE

- UK Chancellor Rachel Reeves' delayed Autumn Budget is now scheduled for 26 November.
- The Office for Budget Responsibility (OBR) warned that government faces an estimated £20 billion fiscal shortfall, prompting speculation over possible income tax rises and spending restraint in the upcoming Budget.
- The U.S. federal government shutdown on 1 October has affected hundreds of U.S. air traffic controllers - this has led to delays and cancellations, causing knock-on effects for international flights, particularly transatlantic routes connecting the UK and U.S.
- A UN review in late October found global climate plans would cut emissions by only 10% by 2035 which is far below the 1.5°C goal, increasing pressure on governments and industries to accelerate decarbonisation and adopt credible sustainability measures.

MARKETING, SALES, AND PROMOTIONAL ACTIVITY
TRADE OVERVIEW

- Brand USA launched its new global tourism campaign, 'America the Beautiful', highlighting U.S. culture and stories across nine global markets. The United States remains the top international destination for long-haul leisure travel in the world.
- The ABTA Holiday Habits 2025-26 report reveals UK travellers remain highly confident and committed to taking holidays despite economic pressures with nearly nine in ten taking a holiday in the past year.
- Younger travellers are increasingly using AI for holiday inspiration.
- Sustainability awareness – particularly among 25-34 year olds – remains high, even as most are unwilling to sacrifice travel.
- London Heathrow experienced a record-breaking September with 7.4 million passengers.
- Kuoni reports a 26% year-to-date increase in third-party agent sales compared with last year, with home-based agents now making up 40% of its trade business.
- British Airways launched new direct route from London St Louis starting 19 April 2026.

TRADE ACTIVITY

- Brand USA Travel Week UK and Europe, 20-23 October 2025, London – ensuring final details and appointments selection – coordinating with CVB and German office – working with Brand USA on billing. This very successful tradeshow now in its seventh year, connects U.S. destinations with leading international buyers and media from 20 countries. Attended with Claudia Wood, CVB, holding over 40 individual appointments and participated with the enrichment and learning programmes on current market updates, future opportunities, trends and technology.

- Visit USA travel trade training roadshow, 8 October 2025, Glasgow. Participated with shared opportunity with Experience Kissimmee. We presented to over 83 Travel agents and travel advisors and have access to 77 travel agents in London Gatwick area for follow up.
- On going planning for new fiscal with future co-op marketing campaigns.
- Co-op activity – discussions on future trade co-hosted event with Experience Kissimmee – targeting HNW market.
- Lusso Luxury UK tour operator, trade event November – final planning to ensure all assets.
- Updates – industry updates included within our CVB weekly zoom meeting for planning.
- Mailing House – forwarded year end stock report to CVB and maintained distribution of CVB literature for consumer and trade requests.

Images below: L-R: Brand USA Travel Week attending meeting with C. Wood, CVB; Brand USA Travel Week, enrichment; Visit USA roadshow training, presenting prize to winning agent and at booth.









PUBLIC RELATIONS AND COMMUNICATIONS ACTIVITY

- **Media Trends** - Long haul destinations, seasonal celebrations and ski season holidays.
- **Newsletter (1)** - The team distributed newsletter on 28 October titled "A holiday for everyone in Florida's Paradise Coast".
- **Media Pitches (4)** - Themes: Autumn travel, road trips, astrotourism and new hotel openings.
- **Media Meetings (3) -** Kav Dadfar, Founding Editor, JRNY Magazine, Max Williams, Features Editor at Square Mile; Yvette Cook, Freelance Journalist
- **Group Media Fam** - Bridget McGrouther's piece was published in The Sunday Post, both in print and online.

DATE	PUBLICATION	MEDIA TYPE	JOURNALIST	HEADLINE	REACH	EAV ($)
05.10.25	The Sunday Post	Print	Bridget McGrouther	Travel: Florida	30,525	$11,241
16.10.25	NI Travel News	Online	Kirsty Johnston	12 after dark experiences that make the most of the night sky	220,940	$1,967
17.10.25	The Sunday Post	Online	Bridget McGrouther	Travel: Glorious skies, lush cocktails and copious wildlife on Florida's Paradise Coast	124,000	$3,298
19.10.25	The Sunday Post	Print	Thomas Hawkins	Travel News	30,525	$493
				TOTAL (4)	**405,990**	**$16,999**

10. DACH & BeNeLux MARKETS

DiaMonde GmbH & Co. KG., Annette Eckhardt, Account Director

October Review

- Trade fam visit of Swiss tour operator Turisme pur tous from Oct 5-7 – 10 travel agents
- Sales call day Frankfurt, October 23
- Preparation for our participation at Visit USA Austria Event, Nov 11 and Visit USA Halloween Event from Nov 5-7
- Virtual attendance at Visit USA Netherlands General Assembly on Oct 28th
- Final plannings for our luxury tour operator fam from Dec 6-12
- Follow up Brand USA Travel Week

November Forecast

- Attendance at Visit USA Germany General Assembly on Nov 7
- Participation at Visit USA Halloween Event in Frankfurt from Nov 7-9
- Participation at Visit USA Austria Event in Vienna on Nov 11
- Media visit of Germany family travel blogger "one million places" from Nov 22-25
- Tour operator visit of CANUSA, Sarina Keil, Nov 11-14
- Final plannings for our luxury tour operator fam from Dec 6-12
- Follow up Brand USA Travel Week

Summary of achievements

- In October 2025 we have generated 16 media placements with a combined reach of 806,000 und and a media value of 50,512 EUR, which equals US$ 58,0772
- Secured individual media visit of German journalist Silvia Stammer for early January 2026

Sales Activities – B2B & B2C

- **DERTOUR Deutschland GmbH, Arlett Walleck, Product Manager Meiers Weltreisen & Katja Wagner, Product Manager DERTOUR, Germany**
  Key Account – Personal sales call: Met with Arlett and Katja to discuss program participation and hotel updates. Efforts to include AC Hotel and The Perry in their programs have been challenged by a lack of Marriott connectivity, and The Perry was unable to include the resort fee in the rate. An update was provided on new hotel developments, including the Olde Naples Hotel, which has generated significant interest. Florida market performance is currently down 25–30%. Katja will be attending the Florida Huddle. The Florida Event in April was also discussed, with only one spot remaining available on a first-come, first-serve basis. Katja expressed interest in the Fairways Inn of Naples and requested images.
- **go2travel GmbH, Michael Boetschi, Managing Director, Switzerland**
  Demand for the USA remains subdued, while bookings from Canada are increasing. The USA still represents a significant share of their business, but recent tensions—particularly concerning U.S. tariffs—have affected Swiss travelers personally, resulting in a noticeable shift away from the U.S. market. They are currently investing heavily in marketing efforts and are planning a B2B Florida Day in April 2024, for which they would like to invite us to participate. Additionally, a blog article featuring Naples combined with a promotional travel package was suggested as a promising idea, with a proposal to be shared with us shortly.

Marketing Activities

- **CANUSA TOURISTIK GmbH & Co. KG, Alex Wirsum, Marketing Manager, Germany**
  After receiving the PO and approval from Claudia Wood we confirmed the luxury campaign to CANUSA. It is a joint B2B/B2C campaign featuring Naples, Marco Island, Everglades & Palm Beaches in Q4 2025 / Q1 2026. This exclusive campaign, focused on Palm Beaches and Naples, Marco Island & the Everglades, will include extensive marketing promotions through CANUSA's most effective channels. The cost share for participation is USD 7,000 per partner.
- **fvw Medien Gruppe, Verlag Dieter Niedecken GmbH, Florian Hölzen, Deputy Director Sales, Germany**
  Reporting FVW Destination Day "South Florida", September 13
  Advertisement via banner in newsletter and on fvw.de: Ad requests: 225,202 - Clicks: 363
  Editorial announcement plus editorial coverage with reference to media library:
  Page views to date: 1,388; Viewers on Destination Day: Live: 336 – Total viewers – 1,259
- **Hey! USA, Sebastiaan Klijen, Netherlands**
  Hey! USA, in cooperation with Dutch tour operator TIOGA, offers a targeted online marketing campaign for the resilient Dutch market, including website articles, newsletter exposure, social media promotion, and print placement in the new Florida Magazine. The campaign, with a participation cost of USD 3,000, will also feature a dedicated travel package and support our presence at the Florida B2C event on January 26. This initiative is expected to raise awareness of Naples, Marco Island & the Everglades and drive qualified bookings.
- **CRD Select, Carina Marxen, Germany**
  Carina from CRD Select, the luxury brand of CRD, has proposed a high-value FY26 marketing opportunity following the successful 2025 campaign. Together with Palm Beach and the Florida Keys, we aim to further strengthen our positioning in Germany's luxury travel segment. The B2C campaign targets premium travelers through online exposure on DIE ZEIT—Germany's leading newspaper—and a one-page advertorial in Business Traveller magazine (print and online), reaching around 200,000 business and leisure travelers. Both elements will feature our Luxury Florida travel package to ensure measurable ROI. Scheduled for January, during Germany's peak booking season, the campaign will support 2026 sales and boost brand awareness for Naples, Marco Island & the Everglades. The cost share is USD 5,500, to be paid via PO by the CVB. (PO submitted)

Media / PR / Communications Activities

- Redaktionsbuero Stammertext, Silvia Stammer
  We have received a media request from Silvia Stammer, a freelance journalist for various German newspapers. She will be vacationing with her husband in Fort Myers in early January, and Welt am Sonntag (reach: 990,000 readers) is interested in producing a story on the Everglades. We will support her with tickets for a swamp walk, an airboat tour, and a visit to the Clyde Butcher Gallery. Silvia is also considering a two-night stay in the Glades and the CVB as requested, the Clyde Buther Cottages. Given the strong reach and the affluent, travel-savvy audience of Welt am Sonntag, supporting this opportunity is highly recommended.
- **usa-reise.de @ InfoPool Information Services GmbH, Thomas Ullmann, Owner, Germany**
  Thomas from usa-reise.de, the largest German-language travel portal for the USA visited Naples in October and thanked us for our support. They will create various articles over the next weeks and will let us know once they are published. We have supported him with additional images.

- **Social Media Posts**
  Paradise Coast has been allocated a series of social media posts on the German Paradise Coast B2C Page (16k followers) and the B2B page. The total reach for October 2025 was 4,291. Please refer to the clipping report for screenshots of the posts.

IKŌNIK Destinations Collective
Reporting Period: October 1 - 31, 2025

Highlights:

- **Successful IKŌNIK IMEX hosted buyer breakfast with 30 clients**
- **24 client appointments + presentations at Smart Meetings following up for RFPs**

Subject	October 2024	October 2025
Number of Meeting Planner Contacts	1400	800
Number of RFP leads sent	11	32
Number of Shows Attended	3	3

RFPS

Event Name	Organization	Contact	State	Dates	Room Nights
EZN Regional Launch Training	Maritz	Rebecca Baily	PA	November 3-6, 2025	69
Cetera 2026 Large Enterprises Channel Meeting	Maritz	Katey Wilkinson	MI	January 18-24, 2026	930
Cetera 2026 Institutions and Tax Channel Meetings	Maritz	Tish Lewis	TN	October 17-23, 2026	1120
ELT Offsite	M&I Worldwide	Becky Morrow	TX	January 24-28, 2026	50
NCM04885 8A00 Naples June 2026	Maritz	Kristen Fried	MO	June 16-20, 2026	43
2027 Municipal Bond Buyers Conference	HelmsBriscoe	Cheryl Faust	WI	February 19-26, 2027	325
ADT 2027 Dealer Convention	BI Worldwide	Karina Kern	MN	February 20-24, 2027	584
Lexus Southern 2026 Dealer Council Meeting	M&I Worldwide	Gail Smith	WI	March 3-5, 2026	30
Vertiv 2027 2027 NSM Domestic	HelmsBriscoe	Mary Herrera	MN	January 30-February 5, 2027	2115
EmpowerHER 2026	Selection Factor	Erik Benson	MN	May 28-30, 2026	60
Elanco Board of Directors, February Session	Elanco	Michelle Quick	IN	February 16-18, 2026	55

Dealer Tire Summer 2026 Incentive	Maritz	Brian Roe	CO	June 4-7, 2026	344
WEX OTR Summit 2026	ConferenceDirect	Bob Kobosky	IL	October 4-9, 2026	480
2026 Williams, Parker,Harrison,and Getzen Law Firm Fall Retreat	Maritz	Missy Erickson	FL	October 16-18, 2026	74
Harmonie Group 2027 Winter Conference	Harmonie	Emily Zniewski	MN	February 2-7, 2027	302
Preceon Smart Corn Breakers Dealer and Seed Pro Council Winter Meeting	Maritz	Tracy Sisson	MO/PA	December 8-10, 2025	60
NCM0487020A3281 Naples Jan 2028	Maritz	Kristen Fried	MO	January 16-18, 2028	30
2028 UNUM Sales Conference	Maritz Select	Shonna Nitzel	MO	April 21-28, 2028	958
CMFG Life Insurance Company BOD Meeting February 2027	NHS Global Events	Liz Parisi	IL	February 6-12, 2027	105
U.S. Bank January 2029 BOD Meeting	HelmsBriscoe	Betti Budde	MN	January 19-25, 2029	189
TD Synnex PartnerLINK Spring Summit March 2026	NHS Global Events	Carly Raines	IL	March 2-5, 2026	386
Huron- Business Advisory Forum	NHS Global Events	Melissa Autullo	IL	May 2-5, 2026	245
CSBB 2027 Purpose to Performance Awards	Maritz	Katy Balyeat	MO	March 28-April 1, 2027	877
Adult and Teen Challenge Minnesota Growth Conference	Arrowhead Conferences and Events	Rachel Aden	MO	February 1-8, 2027	310
CAPTRUST Values Summit	AMEX GBT	Colleen Mahan	OH	April 29, May 1, 2026	300
2027 Wealth Brokerage Business Development Forum	Truist/Maritz	Marilyn Newton	MI	January 27-29, 2027	186
Edelman PXT Offsite	AMEX GBT	Kelly Hansen	MI	January 13-15, 2026	42
Bluegrass Lending Group 2026 Gala	HelmsBriscoe	Lauren Kaelin	KY	February 5-8, 2026	90
NADA April 18-21, 2027	Maritz	Michelle Rezik	MO	April 17-26, 2027	49
Nov22957 RLT Leadership Meeting	Novartis/Maritz	Tori Thomsen	NJ	December 2-5, 2025	30

AIR National Meeting	AMEX GBT	Dora Mullett	MI	April 6-9, 2026	1300
Synchronicity: Belk Credit Summit 2025	CWT Meetings and Events	Drusilla Pollick	IL	February 24-27, 2026	90

PROSPECTING and OTHER ACTIVITIES

- Contacted all incoming leads for updates and recommendations. Followed up with open leads
- October 7, 2025 - IKŌNIK IMEX Client Breakfast - Lisa, Barb and Maura hosted 30 clients for our signature annual event and presentation at IMEX.
- October 7 - 9,. 2025 - IMEX Tradeshow - Barb and Lisa had appointments at the Visit Florida Booth.
- October 26 - 28, 2025 - Smart Meetings Experience - Napa - BQ attended - 24 appointments

LOOKING FORWARD (Trade Shows & In-Market Events)

- Nov 12 - PCMA Midwest Bowl-a-thon event + Fashion Show- Chicago
- Nov18 - Destination Reps Client Event - Chicago
- Nov 18 - CVB Partner Luncheon - Naples
- Dec 2 - SITE Chicago Holly Trolley - Chicago
- Dec - PCMA Midwest Holiday Party
- Dec 3 - Maritz Unwrap Event - Chicago
- Dec 6 - SITE Florida Holiday Luncheon - Miami
- Feb 4 - SITE Florida Theater Hosted Buyer Event - Fort Lauderdale

Collier County TDC - Meeting Date: Dec 12, 2025

STAFF REPORT

This report summarizes staff activity from Oct 1–31, 2025, with a focus on strategic initiatives, lead generation, key outcomes, and departmental highlights organized by focus area.

Collier County TDC Staff Report

Marketing, Public Relations & Communications

Sandra Rios, PR & Communications Manager / Jennifer Chase, PR Specialist

- Earned Media: 25,323,192 media impressions valued at $113,692.91 including features in HGTV, Scuttlebutt Gulf Coast, Family Vacationist, USA Today, Travel + Leisure, Condé Nast Traveler and Atlanta Journal Constitution.
- Speaking engagement, presentation and panel discussion for MIAAOR (Marco Island Area Association of Realtors) October 7th. The focus was an update on the tourism landscape in SWFL and Florida's Paradise Coast with emphasis on current geopolitical challenges.
- Participated as voting member of the Selection Committee for Tourism Marketing & Promotions RFP, October 27th at Procurement Division office.
- Presentation at The Arlington Men's Coffee Club, October 30th. Focus was state of Tourism in Collier County and benefits to community, residents and visitors.
- Presentation and panel discussion at Greater Naples Chamber of Commerce Leadership Collier Alumni Luncheon, October 30th. Panel included Meg Stepanian from 5th Avenue BID, Jenny Gezella, CEO, Hoffman Marine Enterprises and myself representing Naples, Marco Island, Everglades CVB. Focus was status of tourism in Collier and impacts of current geopolitical issues affecting tourism in our County.
- Continued online employee training through Palm/Collier U.

Marketing Performance

- Coordination of ¡Arte Viva! Press Conference – held at Gulfshore Playhouse, October 1st.
- Creation of marketing assets for YMCA (national) pickleball tournament's November event.
- Continued procurement and CAO process to finalize Meltwater media monitoring service contract.
- Reviewed and approved distribution of October Consumer E-blast.
- Approvals of new "Senses" brand campaign assets that will be featured in our 2026 advertising campaigns.
- Review of Downs & St. Germain Ad Effectiveness Study,
- Planning for Annual Report – draft layout and data inclusions.
- Initiated research on RFP for 2026 Visitor Guide.

Communications and Partner Engagement

- Created, edited and approved October edition of *CoastLines* for distribution, 41.3% Open Rate and 2.9% Click-through rate.
- Garden & Gun Media Dinner event at Tesoro, JW Marriott Marco Island Beach Resort.
- Updated Crisis Communications plan with current team members and updated process in alignment with new website.
- Drafted and distributed Destinations Florida October Quick Trips article.
- Represented CVB at ribbon cutting event at Third Street Book Store.

- Continued planning for November 18th Partner Appreciation Luncheon, including County schools outreach for entertainment, video scripting and film shoot locations to be filmed by Paradise Advertising.

- Hosted Danielle Nguyen, Canada-based Vicarious Magazine, October 9 – 10.
- Finalized itinerary for media visit – Megan Margulies (Nov 8 – 9), representing Parade magazine. Partners include The Ritz-Carlton, Tiburón and Inn on Fifth.
- Responded to Gulfshore Business media requests for information on 10/28 BCC meeting.
- Hosted journalist Thomas Ullmann, from usa-reise.de, the largest German-language travel portal for the USA, who is staying in the Naples area from September 13 to October 4.
- Coordinated itinerary for media visit-Dan Donovan, Visit Florida-Ottawa Life, November 18-20.
- Finalized itinerary for German media visit-Michael Schmidt, One Million Places, November 22-25.
- Site visit with Opera Naples to review partnership opportunities.
- Ongoing assistance for partner login and uploading of events and press releases to ParadiseCoast.com.

Strategic Planning

- Review of supplemental marketing plan.
- Fiscal year-end accounting and budget preparations.
- Integration of new advertising campaign, "The Senses"

New, Articles, Press Releases

All partner press releases, and news articles can be found here.
Highlights:

- **Travel + Leisure** named Naples one of the *"18 Best Places to Travel in October,"* highlighting the Naples Stone Crab Festival and The Ritz-Carlton, Naples.

- **Condé Nast Traveler** showcased Naples among its *"Hotels With Tennis Camps."*

- **Atlanta Journal-Constitution** spotlighted the region in *"Fall Travel: Outdoor Adventure Awaits in These Out-of-the-Way Destinations."*

- **FamilyVacationist** featured Naples in *"10 Fall Beach Vacations Where Summer Never Ends,"* which was also syndicated by **USA Today** as *"Where to Take a Fall Beach Vacation With Kids."*

- **USA Today 10Best** included Corkscrew Swamp Sanctuary in *"10 Stunning Fall Bird-Watching Destinations in the U.S."* — linking directly to our CVB website.

- **HGTV** featured Ochopee's famous *smallest post office in the U.S.* in *"Must-See Roadside Attractions in All 50 States."*

- Naples earned the front cover and a four-page spread in **Gulf Coast Scuttlebutt**'s Fall 2025 issue — *"A Boater's Guide to Naples, Florida" (page 26).* Distributed at 400+ marine locations

across Southwest Florida, this feature celebrates our local marinas, waterfront dining and boating culture.

Social Media Highlights

- Our top-performing reel from the JW Marriott Luxury Content Series transported viewers to a world of coastal sophistication and five-star indulgence, while our FC Naples promotion reel captured the excitement of game day and the local pride that unites the community. Dining remained a standout theme, with the Ario reel at the JW Marriott engaging audiences through artful plating, Gulf-sourced ingredients, and a refined culinary story:
    - JW Marriott: https://www.instagram.com/reel/DPeqm5ODGFz/
    - FC Naples: https://www.instagram.com/reel/DPoO3ongp7E/
    - Ario: https://www.instagram.com/reel/DPr1eIbDHCf/

Sales & Trade (Domestic & International)

Group Meetings

Lisa Chamberlain, CMP, Group Sales Manager

- 24 RFPs/leads distributed, 285 client interactions and 28 partner engagements
- Definite bookings secured: 8 groups / 3,396 room nights
- Represented the destination at **IMEX America 2025**, which included welcoming 30 hosted buyers at IKŌNIK Breakfast Ritual and meeting with over 285 hosted buyers, planners and industry partners at the Visit Florida Booth. IMEX America 2025 drew more than 17,000 participants – the largest in the event's history. IMEX America 2025 was held in Las Vegas October 6-10, 2025

Specialty Markets

Michelle Pirre, Sales Assistant

- Distributed 20 RFPs representing 2,187 total room nights and an estimated economic impact (EIC) of $1,739,275.21.
- Secured two definite small meetings this month, generating 90 room nights with an EIC of $64,876.74.
- Attended NorthStar's Small & Boutique Meetings in Knoxville, successfully completing 28 appointments with meeting planners.
- Hosted a pop-up event at David's Bridal in Tampa, engaging with 33 brides and bridal parties and collecting 20 new contacts who signed up for our newsletter.
- Coordinating a site visit resulting from the Connect Specialty Tradeshow for the fraternity group Sigma Pi Phi, with the potential to secure 295 room nights and generate an estimated EIC of $284,965.33. The site visit is scheduled for November 2–4, 2025.

Global Travel Trade

Claudia Wood, Global Sales Manager

- Attended the 7th Annual Brand USA Travel Week Europe in London (October 21–24, 2025), which welcomed nearly 900 industry professionals, its strongest turnout to date. Over three days, we completed 40 business appointments with operators from Europe and the U.K./Ireland, attended educational sessions, and engaged in networking that underscored strong international recovery and renewed enthusiasm for U.S. destinations.
- At the conference, Brand USA launched its new global campaign, "America the Beautiful," unifying all destination storytelling under one platform. The campaign leverages AI technology via Mindtrip to create a more personalized trip-planning experience, generating a 2,743% increase in page views within 24 hours of launch.
- Received wrap up report from Movement Marketing which was part of our enhanced budget for FY25. Overall performance exceeded goals and reinforced our destination as a premier luxury destination.
    - Our multi-channel campaign reached 14,000 + luxury travel advisors across the U.S. and Canada.
    - Achieved 36% open rate and 7.18% click-through rate, the highest Movement has seen.
    - The two webinars I presented attracted 314 registrants and 126 live attendees.
    - The luxury FAM (Sept 2-5) was rated 9/10 by the advisors and has already produced two confirmed bookings with more expected.

Arts & Culture

John Melleky, Arts and Culture Manager

- **TDT Grants FY 25-26:** Worked with finance to obtain purchase orders for the grant recipients for FY 26. Obtained the signed contract file from the clerk's office and separated them into individual files for each grant recipient.
- **¡ARTE VIVA!:** Held press conference for the new season on October 1, 2025. Sent out the press release to local and state contacts. Sent thank-you notes to local agencies that attended the event. Created a notecard of the poster for internal use.
- **Marketing and Promotions RFP**: Attended kickoff meeting for the proposal review. Reviewed proposals and attended the review committee meeting.
- Attended the Destinations Business Operations Summit in Jackson, MS.
- Attended 12 partner events and outreach meetings. (P-Card – Naples International Film Festival $300, TDT Grant recipient program)*

Finance and Operations

Jennifer Leslie, Operations Support Specialist I

- Completed and submitted FY26 end-of-year and carry-forward information.
- Verified FY26 purchase order vendors.
- Compiled and uploaded TDC reports and agenda items.

*Due to Collier County policies and a review by the County Attorney's office, free tickets to events and productions cannot be accepted, even for grant-funded programs. No fundraisers are included in activities paid through TDT funds. Activities paid for by TDT money is pre-approved before the purchase occurs. Tickets are obtained for ¡ARTE VIVA! events, TDT Arts Grants funded projects, and to have at least one visit to each arts organization a season. If organizations have multiple series, only one activity in each series is chosen.

MINUTES OF THE COLLIER COUNTY TOURIST DEVELOPMENT COUNCIL MEETING
September 16, 2025 – 9:00 a.m.

LET IT BE REMEMBERED the Collier County Tourist Development Council, in and for the County of Collier, having conducted business herein, met on this date 9:00 a.m. in REGULAR SESSION at 33299 Tamiami Trail East, 3rd floor, Naples, FL 34112 with the following members present:

Commissioner Chris Hall, Chair
Clark Hill, Vice-Chair
Susan Becker
Laura Radler
Nancy Kearns
Michael McComas
Bill Kramer
Councilor Darrin Palumbo
Edward "Ski" Olesky (absent)

ALSO PRESENT:
Jay Tusa, Tourism Director
Buzzy Ford, Digital & Social Media Coordinator
Andy Miller, Coastal Zone Manager
Michael Lieberman, Assistant General Manager, Paradise Coast Sports Complex

Any person who decides to appeal a decision of the Tourist Development Council will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based, Neither Collier County nor the Tourist Development Council shall be responsible for providing this record.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

A. Roll call was taken. A quorum was present with 8 members in person

4. AGENDA and MINUTES

A. Approval of Agenda

Moved by Clark Hill; Seconded by McComas
Motion passed unanimously (8-0).

B. Approval of August 19, 2025 Minutes

Moved by Susan Becker; Seconded by Nancy Kerns
Motion passed unanimously (8-0).

5. PUBLIC COMMENTS

A. Jen Robinson – Blessings in a Backpack
Ms. Robinson, Managing Director, expressed gratitude for the Council's continued support of *Sizzle Dining*, which directly supports the nonprofit's mission to provide weekend food for children facing hunger.

6. PRESENTATIONS

A. Paradise Coast Sports Complex Quarterly Report
Michael Lieberman, Assistant General Manager, presented the Q3 report. Extended details included:

A. Events:

1) *South Florida Cup (soccer)* – Over 300 teams; contract renewed for seven future events.
2) *FHSAA Lacrosse State Championships* – Hosted for the fourth consecutive year.

3) *Great Inflatable 5K* – Unique obstacle 5K with several hundred participants.
4) *FBU Top Gun & 7v7 Flag Football* – Sixth year; 1,500 participants; growing significantly.
5) *FC Naples* – Seven games in the quarter, including U.S. Open Cup play; eliminated after dramatic penalty kicks vs. Tampa Bay Rowdies.

B. Community Events:

1) *Easter Extravaganza* drew 4,000+ participants.
2) *Wags to Riches Puppy Prom* showcased creative venue use.
3) *Hospitality & Tourism Industry Week* hosted 100 professionals with elevated catering, highlighting venue versatility (e.g., weddings).

C. Financials:

1) Q3 revenue: $850,000 (up 35% YoY).
2) Gross profit: $2 million (up 40%).
3) Net operating income: $600,000 (up 65%).

D. Upcoming: 7 FC Naples games scheduled in Q4; Pop Warner football; visit from University of Quebec at Montreal.

E. Recognition: Sports Events Magazine named Paradise Coast Sports Complex the #1 youth soccer & lacrosse venue in the U.S.

Council members commended the report and success of the complex.

7. TOURISM DIRECTOR REPORT

Tourism Director **Jay Tusa** presented updates:

- **July TDT Collections:** $2,729,036; YTD total $42,856,479.
- **Lodging:** Occupancy 51.9% (+2%); ADR $267.08 (-1.9%); RevPAR flat at $138.61.
- **Awards:** CVB received the *Henry Flagler Award* for the "Only Paradise Will Do" print campaign, Visit Florida's highest honor.
- **Partner Engagement:** August 21 breakfast at Great Wolf Lodge drew 100+ partners, highlighting FY26 priorities and marketing initiatives.
- **Meetings & Sales:** 31 RFPs issued; 11 definite bookings; 17,034 room nights secured.
- **PR Coverage:** 10 earned placements (Condé Nast Traveler, CNBC Make It, Vero Beach Magazine) valued at $150M+.
- **International Marketing:** Hosted German and U.K. journalists; launched German family travel blog; secured JTA Travel UK partnership.
- **Content Series:** Five of eight launched (beaches, luxury, athleisure, family, dark skies). Remaining three (Cars on Fifth, Dining, Stone Crab) to debut in FY26.

Mr. Tusa thanked agencies and staff, noting the collective effort.

8. CONSENT AGENDA

A. Recommendation to award Request for Proposal (RFP) #24-8318 for Tourism Public Relation Services to Lou Hammond Group Florida, Inc., and make a finding that this expenditure promotes tourism (2025-2706)

Tourism Director **Jay Tusa** introduced the item, noting that the staff recommendation was to award the public relations services contract to **Lou Hammond Group Florida, Inc.** He explained that Lou Hammond Group has been a longstanding partner for the CVB, consistently delivering earned media coverage in national and international outlets, as well as managing press relations and media visits on behalf of Collier County.

Mr. Tusa highlighted that the firm's scope of work under this RFP will continue to include:

1) Proactive pitching of destination stories to top-tier travel, lifestyle, and trade publications.
2) Coordination of media familiarization (FAM) trips to Collier County.
3) Crisis communication support when needed.
4) Measurement and reporting of media coverage values.

Council members briefly discussed the item, with recognition of Lou Hammond Group's proven track record and recent placements (e.g., Condé Nast Traveler, CNBC, Vero Beach Magazine, and Daily Telegraph coverage). Members agreed this work directly supports tourism by raising Collier County's visibility in competitive markets.

Motion:

Moved by Clark Hill; Seconded by Mike McComas
Motion passed unanimously (8-0).

9. NEW BUSINESS

A. Recommendation to approve a request for reimbursement from the City of Naples for FY 24/25 in the amount not to exceed ($675,000) using Tourist Development Tax funds for beach maintenance and Lowdermilk Park parking lot maintenance, waive any irregularities in the process, authorize the necessary Budget Amendment, and make a finding that this expenditure promotes tourism

(2025-2816)
Presenter: Chad Merritt, Community Services Director, City of Naples (via Zoom).

- Request: $175,000 for Lowdermilk Park benches, tables, and maintenance; $500,000 for daily beach maintenance (40 accesses, 9 miles).

Motion: Moved by Susan Becker; Seconded by Bill Kramer
Motion passed unanimously (8-0).

B. Recommendation to approve the FY 2025-2026, 10-Year Capital Planning document for Tourist Development Tax funds in TDC Beach Renourishment Fund (1105) and TDC engineering Fund (1102) and make a finding that these expenditures promote tourism (2025-2874)

Presenter: Andy Miller, Coastal Zone Manager.

- Annual FDEP-required planning document to maintain grant eligibility.

Motion: Moved by Clark Hill; Seconded by Darren Palumbo
Motion passed unanimously (8-0).

C. Recommendation to approve the fall truck haul beach renourishment project and authorize Tourist Development Tax expenditures for the Vanderbilt Beach Renourishment scheduled for November 2025, with an estimated project cost $5,500,000, and make a finding that this item promotes tourism (project 90066) (2025-2877)
Presenter: Andy Miller, Coastal Zone Manager

- Scope: Truck haul project with contingency funding, completion before Christmas.

Motion: Moved by Darren Palumbo; Seconded by Bill Kramer
Motion passed unanimously (8-0).

C. Recommendation to approve the Tourist Development Council Grant application requests from Collier County and the City of Naples for FY 2025–2026 in the amount of $18,569,300, budget these expenditures, and make a finding that these expenditures promote tourism. (2025-2930)

Presenter: Andy Miller, Coastal Zone Manager

- Discussion: Chairman Hall praised tourism's direct benefits to locals. Bill Kramer questioned Naples Pier timeline; Miller noted permitting delays but hopeful for progress.

  Motion: Moved by Darren Palumbo; Seconded by Susan Becker
  Motion passed unanimously (8-0).

10. OLD BUSINESS

A. None

11. TEN MINUTE BREAK – None

12. AGENCY PARTNER REPORTS

A. Downs & St. Germain Research – July Tourism Metrics
Presenter: **James Brendle (via Zoom)**.

- July Performance: Visitation up 5.5%; visitor days up 8.8%; occupancy +2%; ADR -1.9%; RevPAR flat.
- FYTD: Visitation up ~1%; room nights up 3.1%; ADR down 4.5%; RevPAR down 3.4%.
- Visitor Origins: Midwest leading, followed by Northeast and Florida; Europe and Canada still soft.
- Advertising Recall: 35% (up from 25% prior year); social media strongest driver.
- Concerns: Declining group demand; 3-month booking forecasts weaker than prior year.

Discussion emphasized the need for sustained marketing to offset group travel declines.

B. Paradise Advertising Update
Presenter: **Ashley Cannon (via Zoom)**.

- Reviewed FY25 campaign wrap-up and FY26 plans.

- Highlighted Flagler Award for "Only Paradise Will Do."
- Showcased content series (beaches, luxury, athleisure, family, dark skies).
- Reported strong ROI: $20 revenue for every $1 ad spend.
- Previewed upcoming campaigns (Cars on Fifth, Dining, Stone Crab) and continued luxury media placements.

13. TOURISM STAFF REPORTS

A. Tourism staff reports were included in the packet. No further discussion.

14. COUNCIL MEMBER DISCUSSION

1) **Susan Becker:** Praised the Paradise Coast Sports Complex's hospitality industry event.
2) **Nancy Kearns:** Asked about supplemental budget and marketing "dark period." Mr. Tusa said updates would come at the next meeting.
3) **Michael McComas:** Spoke on Everglades City tourism challenges; noted community impact of large visitor influx.
4) **Bill Kramer:** Reflected on $43M TDT collections and the importance of tourism revenues reaching nonprofits like Blessings in a Backpack.
5) **Chris Hall (Chair):** Shared personal anecdotes on student nutrition programs; emphasized importance of supporting food security. Also clarified Naples Pier delays stem from permitting, not city or county failures

15. NEXT MEETING

A. The next TDC meeting will be held on December 12, 2025.
(October 21, 2025/canceled; November 18, 2025/canceled; December 16, 2025 moved to December 12, 2025).

16. ADJOURNED

There being no further business, the meeting was adjourned at 9:54 am

COLLIER COUNTY
TOURIST DEVELOPMENT COUNCIL

(Vice Chair)

Chairman Chris Hall

The Minutes were approved on December 12, 2025, ***(date of approval)***

as presented X **or as amended** _____.

Collier County Government

Communications, Government & Public Affairs
3299 Tamiami Trail E., Suite 102
Naples, Florida 34112-5746

December 5, 2025

FOR IMMEDIATE RELEASE

Notice of Hybrid Remote Public Meeting
Vanderbilt Beach Beautification MSTU Advisory Committee
Collier County, Florida

December 11, 2025
11:00 a.m.

Notice is hereby given that the **Vanderbilt Beach Beautification Municipal Service Taxing Unit (MSTU) Advisory Committee** will meet on **Thursday, December 11,** at **11:00 a.m.** This will be a Hybrid Remote meeting and it will be held at the Cocohatchee River Marina, 13535 Vanderbilt Drive, Naples, Florida. Some of the Board members may be appearing remotely, with staff present in person. The public may attend either remotely or in person.

Individuals who would like to participate remotely should contact Rosio Garcia at Rosio.Garcia@collier.gov by December 10, at 5:00 p.m.

Remote participation is provided as a courtesy and is at the user's risk. The County is not responsible for technical issues.

The agenda will be available on the Collier County Government website at https://www.collierptne.com/mtsu/vanderbilt-beach-beautification-mstu-advisory-committee/.

About the public meeting:

Two or more members of the Collier County Board of County Commissioners may be present and may participate at the meeting. The subject matter of this meeting may be an item for discussion and action at a future meeting.

All interested parties are invited to attend, and to register to speak. All registered public speakers will be limited to three minutes unless changed by the chairman.

Collier County Ordinance No. 2004-05 requires that all lobbyists shall, before engaging in any lobbying activities (including, but not limited to, addressing the Board of County Commissioners, an advisory board or quasi-judicial board), register with the Clerk to the Board at the Board Minutes and Records Department.

Anyone who requires an auxiliary aid or service for effective communication, or other reasonable accommodations to participate in this proceeding, should contact the Collier County Facilities Management Division, located at 3335 Tamiami Trail E., Suite 101, Naples, Florida 34112, or (239) 252-8380, as soon as possible, but no later than 48 hours before the scheduled event. Such reasonable accommodations will be provided at no cost to the individual.

For more information, call Judy Sizensky at (239) 252-4980.

###

Vanderbilt Beach M.S.T.U.

Advisory Committee
8300 Radio Road
Naples, FL 34104

DECEMBER 11, 2025, 11:00 AM

Committee Members and Project Manager will meet at
Cocohatchee River Marina-13535 Vanderbilt Drive, Naples, FL 34110
All others are encouraged to attend via Zoom video conference

AGENDA

1. **Call to order**
2. **Attendance**

Advisory Committee	Bruce Forman - Chairman	(11/13/2027)
	Bill Sjostrom - Vice Chairman	(11/13/2028)
	Gabriella R. Miyamoto	(11/13/2027)
	William Harris	(11/13/2028)
	-Vacant-	
	Aaron Gross, Ground Zero Landscaping	
	Judy Sizensky– Project Manager	
	Rosio Garcia – Operations Coordinator	
	Wendy Warren- Transcriptionist	

3. **Approval of the agenda**
4. **Approval of the Minutes –** November 6, 2025
5. **Landscape Maintenance Report -** Aaron Gross, Ground Zero Landscaping Services
6. **Project Manager Report – Judy Sizensky**
   - **a.** Current Budget FY26 – December 2025
   - **b.** The RFQ for the greenway bike path is in and the lowest bidder is Quality Enterprises (QE). The bid amount is $815,066 ($200K less than the engineer's estimate) with $30,000 for owner's allowance if needed. It is on January 13, 2026, BCC meeting agenda.
   - **c.** Gulf Shore Drive (north section beginning 10701 Gulf Shore Drive) Davidson Engineering will prepare the plans and construction documents. The PO for engineering has been issued. The RFQ will go out once plans are completed and the RFQ bids will be presented at the following meeting.
   - **d.** Gulf Shore Drive – (Southeast section @ Buzz's Lighthouse) RWA.
   - **e.** Traffic signal relocation Vanderbilt Beach Rd & Vanderbilt Drive-. DRMP, Inc, (PO 4500237965) which we used on Crosswalks project, is 90% completed with plans.
   - **f.** SCS has received PO 4500241994 for power washing. They have completed the power-washing and painting of the Halas bridge (it looks great!). They are currently working on the Bluebill bridge.
   - **g.** Wiggins Pass median reconfiguration-Jacobs Engineering is now on board for the plans. They have submitted the proposal for $54,920. A work order/purchase order is in progress.
   - **h.** Mulch has been installed.
   - **i.** The application for committee member-applicant Ryan Schwartz will go to the Board meeting on December 9th meeting for approval.
7. **Old Business**
8. **New Business**
   - **a.** The contractor stated an engineer will not be required for the 700' fence extension at Connor Park. An RFQ will be sent out shortly.
9. **Public Comment**
10. **Adjourn**

NEXT MEETING DATE
TBD
COCOHATCHEE RIVER MARINA, 13535 VANDERBILT DR, NAPLES, FL 34110

Vanderbilt Beach M.S.T.U

Advisory Committee

8300 Radio Road
Naples, FL 34104

NOVEMBER 6, 2025

I. CALL TO ORDER

Chair Forman called the meeting to order at 2:03 P.M. Roll call was taken, and a quorum of three were established.

II. ATTENDANCE

Advisory Committee:	Bruce Forman – Chair
	William Sjostrom – Vice Chair (Excused)
	Gabriella R. Miyamoto
	William Arell Harris
	Open Seat
Staff:	Judy Sizensky - Project Manager
	Rosio Garcia – Operations Analyst
	Keyla Castro - Operations Support Analyst II
	Melissa Vanderwerken – Budget Analyst I
Others:	Aaron Gross – Ground Zero Landscaping
	Wendy Warren – Transcriptionist

III. APPROVAL OF THE AGENDA

Ms. Miyamoto moved to approve the Agenda of the Vanderbilt Beach MSTU Advisory Committee as presented. Second by Mr. Harris. Carried unanimously 3 - 0.

IV. APPROVAL OF THE MINUTES – October 2, 2025

Ms. Miyamoto moved to approve the minutes of the October 2, 2025, minutes of the Vanderbilt Beach MSTU Advisory Committee meetings as presented. Second by Mr. Harris. Carried unanimously 3 – 0.

V. LANDSCAPE MAINTENANCE REPORT

Mr. Gross reported:

- Fertilization of areas is complete.
- County brown mulch installation in Conner Park and The Regatta of Naples will be completed mid-November.
- Plantings in the swale area at The Regatta of Naples will be replaced.

Ms. Sizensky reported:

- A resident reported MSTU irrigation was not functioning in an area on Vanderbilt Drive.

- She walked a section of Vanderbilt Drive from Egret Avenue north with residents to assess vegetation over hanging the sidewalk.

Ground Zero Landscaping will:

- Install drip irrigation in planted areas flagged by a homeowner for insufficient watering.
- Prune the Ficus hedge encroaching the sidewalk north of Egret Avenue.
- Trim Indian Hawthorne shrubs overhanging the sidewalk and lift tree canopies.
- Remove the Ficus shrub on the corner of Germaine Avenue and replant.

VI. PROJECT MANAGER REPORT – Judy Sizensky

Ms. Sizensky reported:

A. Budget FY-26 – November 2025

Vanderbilt Beach MSTU Fund 1617 Budget for November 6, 2025, prepared November 3, 2025.

Purchase Orders

1. Collier County Utilities – Water and Sewer.
2. Capital Contractors – Fence installation.
3. Davidson Engineering – Plans and construction documents for Gulf Shore Drive sidewalk.
4. DRMP – Engineering service for traffic signal relocation.
5. Florida Service Painting, dba SCS - Bluebill and Halas Bridges maintenance.
5. FPL – Electricity.
6. Ground Zero Landscaping –
   - Incidentals include landscape refurbishment and miscellaneous.
   - Ground Maintenance and Non-Bid Items include Conner Park and irrigation repairs.
7. Premier Staffing – Transcription services.
8. RWA Engineering – Design services for the Greenway multi-use path project, Phase I and II.
9. Site One Landscape Supply – Irrigation parts & pumps.

Budget Summary

1. Line 1, Ad Valorem Tax Millage: Millage assessed totals $1,906,700, an increase of $120,400 over 2024.
2. Lines 5, Interest: Investment interest of $28,000 has been credited.
3. Line 11, Carry Forward – Unexpended prior year funds total $7,379,400.
4. Line 15, Total Revenue - $9,384,616, including interest, carry forward amounts, and contributions, minus a 5% ($96,700) reserve for estimated uncollected revenue.
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6. Line 40, Capital Outlay - $1,000,000 is budgeted for the current fiscal year long term projects, consistent with the MSTU ordinance and upon a motion from the Advisory Committee.
7. Line 42, Transfer to Fund 111 - Of the $106,400 budgeted $0 has been transferred (PTNE Staff and Support).
8. Line 45, Transfer Construction – Of the $52,500 budgeted, $3,554 has been transferred, leaving A balance of $49,946 available for transfer (Property Appraiser and Tax Collector).
9. Line 47, Capital Reserves - Of the $110,300 budgeted for anticipated Maintenance and Capital projects in future fiscal years as identified in the Asset Management Plan, $0 has been spent and a balance of $110,300 remains.

10. Line 48, Total Budget – Of the $9,384,616 budgeted, tabulated commitments to existing purchase orders total $648,749 and expenditures total $3,850., leaving a remainder of $8,734,287 for FY-26 MSTU expenditures.

General

1. The Fiscal Year 2026 budget is effective October 1, 2025.
2. Unspent Fiscal Year 2025 funds were carried forward to 2026.
3. The Ad Valorem property tax value increased 6.6% for fiscal year 2025 over 2024 generating additional revenue of $120,400.
4. The MSTU Tax Rate for 2026 is 0.5000 mills.
5. Tax millage collected and interest, to maintain and improve MSTU assets, can only be utilized by the MSTU and within the district boundary.

Ms. Sizensky noted:

- The Purchase Order for Preferred Materials will be removed.
- Service Contracting Solutions (SCS) bridge work is pending retainment of a Maintenance of Traffic (MOT) contractor.
- Pending projects financial estimate totals $8.5 million.
    1. The Greenway Multi-Use Bike Path
    2. Gulf Shore Drive North Sidewalk
    3. Delnor-Wiggins Park Entrance
    4. Conner Park Fence Extension
    5. Gulf Shore Drive Southeast Sidewalk

B. Greenway Multi-Use Bike Path – Vanderbilt Drive – Gulf Shore Drive

Ms. Sizensky reported:

- RWA Engineering designed plans for the Vanderbilt Drive sidewalk improvements, Phases I and II, from The Dunes of Naples north to the Marina Bay Club of Naples.
- RWA's "Probable Opinion of Cost" for Phases I and II construction was $656,258.42.
- BID TAB 25-0813, Vanderbilt Drive Sidewalk Replacement, will be redistributed to *Asphalt Maintenance and Related Services* firms on contract with the County on August 18, 2025.
- Four contractors submitted bids for the project.
- Variation in the prices submitted posed concerns regarding interpretation of the "alternate concrete bid item."
- The Invitation to Bid will be redistributed with a line item added to bid the project with concrete versus asphalt sidewalks.
- The contract recommendation for award will be submitted to the Board of County Commissioners (BCC) for consideration on January 13, 2026.
- RWA will obtain the required County permit.
- Environmental Protection Agency (EPA) permits were issued for the original bridge construction and pathway; EPA will receive a copy and review the new permit.
- The Road Maintenance Division will be responsible for maintaining the walkway following completion of construction.
- Phases I and II of the Greenway multi use sidewalk improvement project on Vanderbilt Drive north will be undertaken simultaneously.
- Construction will be scheduled based on contractor's availability, ideally in April 2026.

C. Gulf Shore Drive Sidewalks North

Ms. Sizensky reported:

- Davidson Engineering will prepare design plans and construction documents for concrete sidewalk installation on the west side of Gulf Shore Drive from 10701 to 10451 on the west side, including reconfiguration of the swale.
- Existing pavers in areas such as driveways will remain intact.
- The Purchase Order for engineering has been issued.
- A Request for Quote (RFQ) will be distributed on completion of the plans.
- The bids will be presented to the Committee for consideration.

D. Gulf Shore Drive Sidewalks Southeast

Ms. Sizensky reported:

- RWA Engineering, Inc. submitted a proposal dated November 5, 2025, in the amount of $216,156.00 for survey and mapping services for the "Gulf Shore Pathway Feasibility Study."
- The pathway project begins at the intersection of Vanderbilt Beach Road and Gulfshore Boulevard and ends two-hundred feet north of the existing mid-point crosswalk for LaPlaya Beach Resort.
- The concept is to evaluate using the east side of the right of way for a continuous pathway and west side of the right of way to improve the drainage system capacity and performance.
- An elevated boardwalk-style pedestrian walkway on the southeast side of Gulf Shore Drive from Buzz's Lighthouse Restaurant north to Le Playa Beach & Golf Resort will be considered.

E. Traffic Signal Box

Ms. Sizensky reported:

- The Committee approved the relocation of the County's Traffic Signal Box on the northwest corner of Vanderbilt Drive to the Right of Way (ROW) on the south side of Vanderbilt Beach Road.
- A Work Order in the amount of $44,563 was issued to DRMP, Inc. to prepare plans for the relocation of the box.
- Plans for the project are ninety percent complete.
- The plans will be submitted to Southern Signal for a quote to remove the signal box and relocate it to the south side of Vanderbilt Beach Road by the entrance to the parking garage.
- The project is contingent upon approval of the Traffic Operations Division.
- The MSTU will be invoiced for the project cost.
- Relocation of the box will improve the appearance of the landscaped areas at The Regatta Vanderbilt Beach.

F. Bridge Refurbishment

Ms. Sizensky reported:

<u>Bluebill Avenue Bridge and Frank Halas Bridge</u>

- Service Contracting Solutions, (SCS), proposal dated August 22, 2025, in the amount of $78,656.32, to pressure wash and paint the Bluebill Avenue and Halas Bridges was approved by the Committee on October 2, 2025.
- Paint color samples will be presented to the Committee for consideration.
- Bridge refurbishment service date(s) will be scheduled.

G. Wiggins Pass Median Reconfiguration

Ms. Sizensky reported:

- A work order in the amount of $49,160 has been issued to Johnson Engineering Group, Inc. to prepare plans to reconfigure the turn-around section at the entrance to Delnor-Wiggins Pass State Park.
- On November 4, 2025, an on-site meeting with representatives was held to review the project.
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- The plans will be presented to the Committee and upon approval, Requests for Quotes will be issued.
- MSTU participation in cost sharing of the project will be at the discretion of the Committee.
- A Memorandum of Understanding for the Program (MOA) will be developed for the participating parties.
- In coordination with the designer, Ground Zero Landscaping will landscape the turnaround on completion of construction.

H. Mulch

Ground Zero Landscaping will complete installation of cocoa brown mulch by mid-November.

I. Bluebill Bridge Maintenance

Ms. Sizensky reported the Road Maintenance Division cleaned the sidewalk and pruned the landscaping on the north side of the Bluebill Bridge.

VII. OLD BUSINESS

None

VIII. NEW BUSINESS

A. Conner Park Fence Extension South Side

Ms. Sizensky reported**:**

- A quote to survey the area and extend the fence on the south side of Conner Park, approximately seven-hundred feet to the water, will be requested from a County contractor.
- The contractor will file an application with the County for the required permit.
- Ground Zero Landscaping will plant the area.
- The fence and landscaping project will be undertaken simultaneously.

B. Application for Committee Member

Ms. Sizensky reported a seat for a four-year term is available on the Vanderbilt Beach MSTU Advisory Committee.

An application was received from Ryan Schwartz.

Recommendation for Ryan Schwartz

Mr. Harris moved to recommend the Board of County Commissioners appoint Ryan Schwartz to the Vanderbilt Beach MSTU Advisory Committee. Second by Chair Forman. Motion carried unanimously 3 – 0.

The applicant recommended will be considered for appointment to the Advisory Committee by the Board of County Commissioners.

IX. COMMITTEE AND PUBLIC COMMENTS

Future Improvements for Committee Consideration

The Dunes of Naples Crosswalk

Ms. Sizensky will research feasibility of solar light installation bordering the crosswalk area at the entrance to The Dunes of Naples.

Vanderbilt Drive North

Consult with RWA Engineering on opportunities to improve drainage and beautify Vanderbilt Drive around the Anchorage, The Dunes of Naples and Marina Bay Club of Naples.

Solar Lights on Vanderbilt Drive

Solar spotlights to enhance landscaping on Vanderbilt Drive will be considered. Property owners will be consulted if the light installation borders their residence.

X. ADJOURN

There being no further business for the good of the County, the meeting was adjourned by the Chair at 2:51 P.M.

VANDERBILT BEACH M.S.T.U. ADVISORY COMMITTEE

_____

Bruce Forman, Chair

The minutes approved by the Board/Committee on_____,2025 "*as submitted*" [___] or "*as amended*" [___].

NEXT MEETING DECEMBER 11, 2025 - 11:00 A.M.
Cocohatchee River Marina
13535 Vanderbilt Drive
Naples, Florida

		Vendor	Item	PO#	Budget	Commitments	Expenditures	Total
1	CUR AD VALOREM TAX				$ (1,906,700.00)	$ -	$ (817,044.65)	$ (1,089,655.35)
2	DEL AD VALOREM				$ -	$ -		$ -
3	STATE REVENUE							$ -
4	OVERNIGHT INTEREST				$ -	$ -	$ (9,087.81)	$ 9,087.81
5	INVESTMENT INTEREST				$ (28,000.00)	$ -	$ (12,799.71)	$ (15,200.29)
6	INTEREST TAX COLL.				$ -	$ -		$ -
7	**REVENUE STRUCTURE**				**$ (1,934,700.00)**	**$ -**	**$ (838,932.17)**	**$ (1,095,767.83)**
8	TRANSFERS FROM PROP APP				$ -	$ -	$ -	$ -
9	TRANSFERS FROM TAX COLL				$ -	$ -	$ -	$ -
10	REIMBURSEMENT - INTERDEPT.				$ -	$ -	$ -	$ -
11	CARRY FORWARD GENERAL				$ (7,379,400.00)	$ -	$ -	$ (7,379,400.00)
12	CARRY FOR OF ENCUMB AMT				$ (167,216.40)	$ -	$ -	$ (167,216.40)
13	NEG 5% EST REV				$ 96,700.00	$ -	$ -	$ 96,700.00
14	**TRANSFERS & CONTRIB**				**$ (7,449,916.40)**	**$ -**	**$ -**	**$ (7,449,916.40)**
15	**TOTAL REVENUE**				**$ (9,384,616.40)**		**$ (838,932.17)**	**$ (8,545,684.23)**
16	ENG FEES				$ 83,042.50	$ 83,014.50	$ -	$ 28.00
17	SURVEYING FEES				$ 100,000.00	$ -	$ -	$ 100,000.00
18	INDIRECT COST	Collier County	Indirect Cost	Direct Pay	$ 9,700.00	$ 9,700.00	$ -	$ -
19	INTERDEPT PAYMENT	Collier County	Stop Signs & Hardware	Direct Pay	$ 1,000.00	$ -	$ -	$ 1,000.00
20	LANDSCAPE INCIDENTALS				$ 100,000.00	$ 111,500.00	$ -	$ (11,500.00)
		RWA Engineering	Sidewalk Improvements - Phase I	4500231986	$ 58,363.00	$ 25,825.50	$ -	
		Preferred Materials	Brick paver crosswalk	4500232149	$ 437,124.80	$ -	$ -	$ -
		Ground Zero	Landscape Maintenance	4500242711		$ 73,826.79	$ 14,400.21	
		RWA Engineering	Sidewalk Improvements - Phase II	4500236702	$ 33,632.00	$ 9,112.00	$ -	
21	OTHER CONTRACTUAL				$ 7,696,173.90	$ 108,764.29	$ 18,673.21	$ 7,568,736.40
22	PAINTING CONTRACTURAL	Florida Service Painting	Bluebill & Halas Bridges	4500241994	$ -	$ 147,051.12	$ -	$ (147,051.12)
23	POST FREIGHT UPS				$ 100.00	$ -	$ -	$ 100.00
24	ELECTRICITY	FPL	Electricity		$ 700.00	$ 497.94	$ 52.06	$ 150.00
25	WATER AND SEWER	Collier County Utility	Water & Sewer		$ 100,000.00	$ 54,920.57	$ 5,079.43	$ 40,000.00
26	RENT BUILDINGS				$ -	$ -	$ -	$ -
27	INSURANCE GENERAL	Collier County	Insurance General	Direct	$ 1,300.00	$ 1,300.00	$ -	$ -
28	SPRINKLER SYSTEM MAIN	Site One	Irrigation Parts		$ 10,000.00	$ 2,757.74	$ 242.26	$ 7,000.00
29	MULCH				$ 5,000.00	$ 81.90	$ 1,253.70	$ 3,664.40
30	LICENCES AND PERMITS				$ 2,000.00	$ -	$ -	$ 2,000.00
31	CLERKS RECORDING FEES				$ 1,000.00	$ -	$ -	$ 1,000.00
32	LEGAL ADVERTISMENT					$ -	$ -	$ -
		Premier Staffing	Transcriptionist Serv.			$ 2,306.95	$ 193.05	$ -
33	OTHER MISCELLANEOUS				$ 2,500.00	$ 2,306.95	$ 193.05	$ 0.00
34	OFFICE SUPPLIES				$ 200.00		$ -	$ 200.00
35	COPYING CHARGES	JM Todd	Monthly CPC (shared) (monthly lease)	4500241387	$ 200.00	$ 150.00	$ -	$ 50.00
36	FERT HERB CHEM				$ 2,000.00	$ -		$ 2,000.00
37	OTHER OPER SUPPLIES				$ 500.00		$ -	$ 500.00
38	**OPERATING EXPENSE**				**$ 8,115,416.40**	**$ 522,045.01**	**$ 25,493.71**	**$ 7,567,877.68**
39	IMPROVEMENTS GENERAL				$ 1,000,000.00	$ -		$ 1,000,000.00
40	**CAPITAL OUTLAY**				**$ 1,000,000.00**	**$ -**	**$ -**	**$ 1,000,000.00**
41	TRANS TO 1011 UNINCOR				$ 106,400.00	$ -	$ -	$ 106,400.00
42	**TRANSFERS**				**$ 106,400.00**	**$ -**	**$ -**	**$ 106,400.00**
43	Budget Trans Appraiser				$ 15,000.00	$ -	$ 3,553.97	$ 11,446.03
44	Budget Trans Tax Collector				$ 37,500.00	$ -	$ 16,573.38	$ 20,926.62
45	**TRANSFERS CONST**				**$ 52,500.00**	$ -	**$ 20,127.35**	**$ 32,372.65**
46	**RESV For Capital Out**				**$ 110,300.00**	$ -	**$ -**	**$ 110,300.00**
47	**RESERVES**				**$ 110,300.00**	$ -	**$ -**	**$ 110,300.00**
48	**TOTAL BUDGET**				**$ 9,384,616.40**	**$ 522,045.01**	**$ 45,621.06**	**$ 8,816,950.33**

UPCOMING PROJECTS-FY26	ESTIMATED COSTS	
VBD Greenway Path	$ 700,000.00	
Davidson Eng-Gulf Shore Sidewalk-N	$ 50,000.00	
Sidewalk Construction	$ 200,000.00	
Delnor Wiggins Entrance-Design	$ 50,000.00	
Delnor Wiggins Entrance-Construction	$ 250,000.00	
Connor Park Fence Ext.-Design	$ 50,000.00	
Connor Park Fence Ext.-Construction	$ 840,000.00	62'=$70K 700'=$840K
Gulf Shore Drive-East- Survey-Study	$ 216,000.00	
UPCOMING PROJECTS-FY27	ESTIMATED COSTS	
Gulf Shore Drive-East-Design	$ 150,000.00	Complete estimate by me!
Gulf Shore Drive-East-Construction	$ 6,000,000.00	
ESTIMATE TOTAL	$ 8,506,000.00	

Total Available Balance	$ 8,816,950.33
Plus Commited And Not Spent	$ 522,045.01
Estimated Cash	**$ 9,338,995.34**
Estimated Cash Less Uncollected Ad Valorem Taxes	**$ 8,249,339.99**

Prepared on 12/8/2025 MV

Vanderbilt Beach M.S.T.U

Advisory Committee
8300 Radio Road
Naples, FL 34104

NOVEMBER 6, 2025

I. CALL TO ORDER

Chair Forman called the meeting to order at 2:03 P.M. Roll call was taken, and a quorum of three were established.

II. ATTENDANCE

Advisory Committee:	Bruce Forman – Chair
	William Sjostrom – Vice Chair (Excused)
	Gabriella R. Miyamoto
	William Arell Harris
	Open Seat
Staff:	Judy Sizensky - Project Manager
	Rosio Garcia – Operations Analyst
	Keyla Castro - Operations Support Analyst II
	Melissa Vanderwerken – Budget Analyst I
Others:	Aaron Gross – Ground Zero Landscaping
	Wendy Warren – Transcriptionist

III. APPROVAL OF THE AGENDA

Ms. Miyamoto moved to approve the Agenda of the Vanderbilt Beach MSTU Advisory Committee as presented. Second by Mr. Harris. Carried unanimously 3 - 0.

IV. APPROVAL OF THE MINUTES – October 2, 2025

Ms. Miyamoto moved to approve the minutes of the October 2, 2025, minutes of the Vanderbilt Beach MSTU Advisory Committee meetings as presented. Second by Mr. Harris. Carried unanimously 3 – 0.

V. LANDSCAPE MAINTENANCE REPORT

Mr. Gross reported:

- Fertilization of areas is complete.
- County brown mulch installation in Conner Park and The Regatta of Naples will be completed mid-November.
- Plantings in the swale area at The Regatta of Naples will be replaced.

Ms. Sizensky reported:

- A resident reported MSTU irrigation was not functioning in an area on Vanderbilt Drive.

- She walked a section of Vanderbilt Drive from Egret Avenue north with residents to assess vegetation over hanging the sidewalk.

Ground Zero Landscaping will:

- Install drip irrigation in planted areas flagged by a homeowner for insufficient watering.
- Prune the Ficus hedge encroaching the sidewalk north of Egret Avenue.
- Trim Indian Hawthorne shrubs overhanging the sidewalk and lift tree canopies.
- Remove the Ficus shrub on the corner of Germaine Avenue and replant.

VI. PROJECT MANAGER REPORT – Judy Sizensky

Ms. Sizensky reported:

A. Budget FY-26 – November 2025

Vanderbilt Beach MSTU Fund 1617 Budget for November 6, 2025, prepared November 3, 2025.

Purchase Orders

1. Collier County Utilities – Water and Sewer.
2. Capital Contractors – Fence installation.
3. Davidson Engineering – Plans and construction documents for Gulf Shore Drive sidewalk.
4. DRMP – Engineering service for traffic signal relocation.
5. Florida Service Painting, dba SCS - Bluebill and Halas Bridges maintenance.
5. FPL – Electricity.
6. Ground Zero Landscaping –
   - Incidentals include landscape refurbishment and miscellaneous.
   - Ground Maintenance and Non-Bid Items include Conner Park and irrigation repairs.
7. Premier Staffing – Transcription services.
8. RWA Engineering – Design services for the Greenway multi-use path project, Phase I and II.
9. Site One Landscape Supply – Irrigation parts & pumps.

Budget Summary

1. Line 1, Ad Valorem Tax Millage: Millage assessed totals $1,906,700, an increase of $120,400 over 2024.
2. Lines 5, Interest: Investment interest of $28,000 has been credited.
3. Line 11, Carry Forward – Unexpended prior year funds total $7,379,400.
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VII. OLD BUSINESS

None

VIII. NEW BUSINESS

A. Conner Park Fence Extension South Side

Ms. Sizensky reported:

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- The contractor will file an application with the County for the required permit.
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An application was received from Ryan Schwartz.

Recommendation for Ryan Schwartz

Mr. Harris moved to recommend the Board of County Commissioners appoint Ryan Schwartz to the Vanderbilt Beach MSTU Advisory Committee. Second by Chair Forman. Motion carried unanimously 3 – 0.

The applicant recommended will be considered for appointment to the Advisory Committee by the Board of County Commissioners.

IX. COMMITTEE AND PUBLIC COMMENTS

Future Improvements for Committee Consideration

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Solar spotlights to enhance landscaping on Vanderbilt Drive will be considered. Property owners will be consulted if the light installation borders their residence.

X. ADJOURN

There being no further business for the good of the County, the meeting was adjourned by the Chair at 2:51 P.M.

VANDERBILT BEACH M.S.T.U. ADVISORY COMMITTEE

Bruce Forman, Chair

The minutes approved by the Board/Committee on Dec 11 ,2025 "*as submitted*" [X] or "*as amended*" [ ].

NEXT MEETING

DECEMBER 11, 2025 - 11:00 A.M.
Cocohatchee River Marina
13535 Vanderbilt Drive
Naples, Florida