

# CONSTRUCTION PLANS

FOR



## ROYAL PALM PARK VARIOUS BOARDWALK REPAIRS

FEMA DI : 1291154

FEMA PRODUCT # : 748831

SECTION 04, TOWNSHIP 44 S., RANGE 25 E.

LEE COUNTY, FLORIDA

**OWNER**

LEE COUNTY  
2115 SECOND ST  
FORT MYERS, FL 33901  
PHONE: (239) 533-2221  
FAX: (239) 485-2262

**SITE ADDRESS**

300 ROYAL PALM PARK RD,  
FORT MYERS, FL 33908

**STRAP NUMBERS**

04-44-25-08-0000A.0000

**SIZE OF PARCEL**

0.86 ACRES

**ZONING**

RS-1

**BOARD OF COUNTY COMMISSIONERS**

KEVIN RUANE	DISTRICT 1
CECIL PENDERGRASS	DISTRICT 2
DAVID MULICKA	DISTRICT 3
BRIAN HAMMAN	DISTRICT 4
MIKE GREENWELL	DISTRICT 5

**COUNTY MANAGER**

DAVE HARNER

**ASSISTANT COUNTY MANAGER**

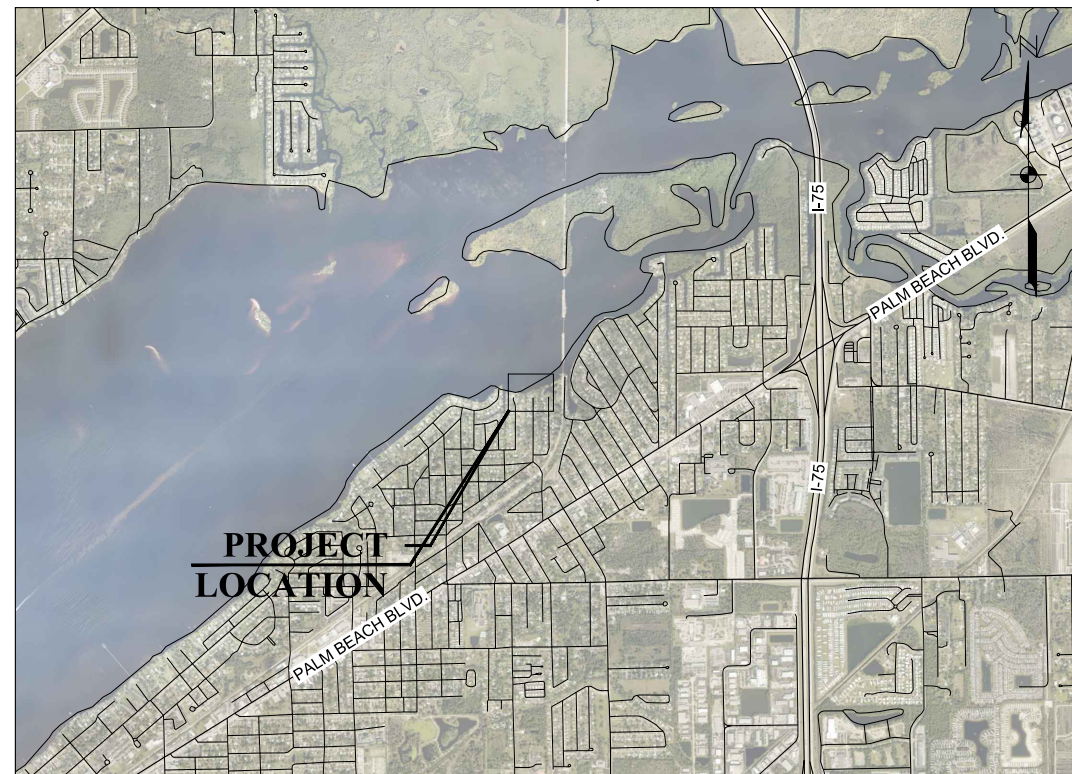
PETER WINTON  
CHRISTINE BRADY  
GLEN SALTER  
MARC MORA  
ROBERT CODIE

**FACILITIES CONSTRUCTION & MANAGEMENT**

EHAB GUIRGUIS, P.E.

**INDEX OF PLANS**

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**LOCATION MAP**

0 1000 2000 4000  
INTENDED DISPLAY SCALE:  
22"X34" PLAN 1"=2000'  
11"X17" PLAN 1"=4000'

FEBRUARY 2025

This item has been digitally signed and sealed by Jordan L. Varble, P.E., on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

WEILER ENGINEERING CORPORATION



WEILER ENGINEERING CORP.  
201 WEST MARION AVENUE SUITE  
1306 PUNTA GORDA, FLORIDA 33950  
PHONE: (941) 505-1700  
FAX: (941) 505-1702



— An Apex Company —

JOHNSON ENGINEERING, LLC.  
2122 JOHNSON STREET  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 334-0046  
E.R. #642 & L.B. #642

REGISTERED PROFESSIONAL ENGINEER  
FLORIDA LICENSE NO. 81414

JORDAN LEVI VARBLE, PE

DATE



NOTICE TO ALL CONTRACTORS  
IT'S THE LAW IN FLORIDA 2 BUSINESS DAYS BEFORE YOU DIG CALL SUNSHINE 1-800-432-4770  
STATE, COUNTIES & CITIES ARE PART OF THE ONE CALL SYSTEM THEY MUST BE CALLED INDIVIDUALLY.

SHEET NUMBER  
**C01**

**ABBREVIATIONS**

AC	ACRE
ALT	ALTERNATE
APPROX.	APPROXIMATE
ASB	ASBESTOS
BM	BENCH MARK
BLDG	BUILDING
BOT	BOTTOM
CB	CATCH BASIN
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
QIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CV	CHECK VALVE
CF	CUBIC FOOT
CY	CUBIC YARD
CL	CENTER LINE
CLKG	CAULKING
CLF	CHAIN LINK FENCE
COL	COLUMN, COLOR
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTRS	CENTERS
CU	COPPER
CU, IN.	CUBIC INCH
DIA., Ø	DIAMETER
DIAG	DIAGONAL
DM	DIMENSION
DIST.	DISTANCE
DIP	DUCTILE IRON PIPE
DE	DRAINAGE EASEMENT
DWG	DRAWING
E	EAST
E/LEVEL	ELEVATION
EQUIP	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EX	EXISTING
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FM	FORCE MAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FIN	FINISH
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
G	NATURAL GAS
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GR	GRADE
HDPE	HIGH DENSITY POLYETHYLENE
HOR	HORIZONTAL
HYD	HYDRANT
ID	INSIDE DIAMETER
IDD	IONA DRAINAGE DISTRICT
INV	INVERT
IRR	IRRIGATION
LAE	LAKE ACCESS EASEMENT
LCUE	LEE COUNTY UTILITY EASEMENT
LF	LINEAL FEET
LME	LAKE MAINTENANCE EASEMENT
LMT	LAKE MAINTENANCE TRACT
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MJ	MECHANICAL JOINT
MAX	MAXIMUM
MECH	MECHANICAL
MES	MITERED END SECTION
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NE	NORTHEAST
NW	NORTHWEST
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
NUM/#	NUMBER
NOM	NOMINAL
OC	NATURAL GAS ON CENTERS
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PV	PLUG VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
POLY, PE	POLYETHYLENE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PGL	PROPOSED GRADE LINE
P	PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PW	POTABLE WATER
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVI	POINT OF VERTICAL INTERSECTION
QJAN	QUANTITY
R	RADIUS
RD	ROAD
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RU	REUSE LINE
R/W	RIGHT OF WAY
S	SOUTH
SE	SOUTHEAST
SW	SOUTHWEST
SS	SANITARY SEWER
SAN	SANITARY
SCH	SCHEDULE
SECT	SECTION
SEW	SEWER
SH	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
ST	STREET
STA	STATION
STL	STEEL
STD	STANDARD
SUR	SURFACE
SYM	SYMMETRICAL
TOE	TOE OF SLOPE
TOB	TOP OF BANK
THK	THICK
TEL	TELEPHONE
TEMP	TEMPERATURE
TRANS	TRANSFORMER
TYP	TYPICAL
UE	UTILITY EASEMENT
VERT	VERTICAL
W	WATER
WM	WATER MAIN
W/	WITH
W/O	WITHOUT
WD	WOOD
WT	WEIGHT
WV	WATER VALVE
WH	WALL HYDRANT

**SYMBOLS**

	GATE VALVE		IRRIGATION SERVICE (DOUBLE)
	TEE ASSEMBLY		IRRIGATION SERVICE (SINGLE)
	REDUCER		SEWER SERVICE (DOUBLE)
	BLOW OFF		SEWER SERVICE (SINGLE)
	FIRE HYDRANT		WATER SERVICE (DOUBLE)
	FIRE HYDRANT ASSEMBLY W/ GATE VALVE		WATER SERVICE (SINGLE)
	MITERED END SECTION		HEADWALL
	MANHOLE W/ NUMBER		DRAINAGE INLET (SEE PLAN FOR TYPES)
	PLUG VALVE		THROAT INLET
			FLARED END SECTION

**HATCH PATTERNS**

	WETLAND		EXISTING LAKE TO BE FILLED
	UPLAND BUFFER		PROPOSED LAKE
	UPLAND PRESERVE		LITTORAL SHELF AREA
	INDIGENOUS AREA		COMPENSATING LITTORAL PLANTING AREA
	NATURAL AREA		RIPRAP / GRAVEL
	FILTER MARSH		BRICK PAVERS
	EXISTING LAKE		

**NOTE:**  
HATCH PATTERNS ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL HATCH PATTERNS ON DRAWING MAY VARY IN SCALE & ANGLE

**LINETYPES**

	EXISTING	PROPOSED
RIGHT-OF-WAY LINE	---	---
CENTER LINE	---	---
LAKE MAINTENANCE EASEMENT	---	---
PUBLIC UTILITY EASEMENT	---	---
DRAINAGE EASEMENT	---	---
WETLAND BOUNDARY	---	---
FORCE MAIN	--- FM ---	--- FM ---
SANITARY SEWER	--- SS ---	--- SS ---
WATER MAIN	--- WM ---	--- WM ---
IRRIGATION MAIN	--- IRR ---	--- IRR ---
RE-USE MAIN	--- RU ---	--- RU ---
PERIMETER BERM	--->>>---	--->>>---
FENCE LINE	---x---	---x---
SILT FENCE	---△---	---△---
BULKHEAD	---	---
STRUCTURAL BUFFER	---	---

**GENERAL NOTES:**

- ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.14 = NGVD 1929.
- THE GENERAL NOTES MUST BE PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN AND MUST BE REFERRED TO BY THE CONTRACTOR. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL THE GENERAL NOTES AND ALL OF THE PLANS SPECIFICATION NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS INCLUDED WITHIN THE PLAN SET AND SHOULD NOT SCALE OFF THE DRAWINGS DUE TO POTENTIAL PRINTING INACCURACIES. ALL DIMENSIONS ARE TO BE CHECKED AND CONFIRMED BY THE GENERAL CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION/ORDERING OF PARTS AND MATERIALS AND START OF SITE WORK.
- JOHNSON ENGINEERING, LLC. IS NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY, JOB SITE SUPERVISION, OR ANYTHING RELATED TO THE SAME. JOHNSON ENGINEERING, INC. IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES OR ANY JOB SITE CONDITIONS, AT ANY TIME.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS (LATEST EDITION), LEE COUNTY DEVELOPMENT STANDARDS AND SPECIFICATIONS AND LEE COUNTY UTILITIES REQUIREMENTS.
- CONTRACTOR SHALL RETAIN, ON THE WORK SITE, COPIES OF ANY PERMITS NECESSARY FOR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TREE REMOVAL PERMITS.
- THE SITE CONTRACTOR SHALL BECOME FAMILIAR WITH THE GEOTECHNICAL REPORT IF ONE WAS PREPARED. THE CONTRACTOR SHALL COMPLY WITH ALL THE SITE PREPARATION AND OTHER SITE RELATED ITEMS, RECOMMENDATIONS AND PROCEDURES.
- CONTRACTOR ACKNOWLEDGES THAT CONSTRUCTION SITE IS WITHIN A PUBLIC USE AREA AND SHALL MAINTAIN A SAFE AND SECURE WORK AREA.
- CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER AND OWNER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE OWNER/ENGINEER WITHOUT DELAY.
- THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION, AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- CONTRACTOR SHALL NOTIFY THE LEE COUNTY DIVISION OF DEVELOPMENT REVIEW A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
- CONTRACTOR TO PROVIDE SILT FENCE AND OTHER APPROPRIATE MEASURES TO AFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH VEGETATION OR SUITABLE EROSION PROTECTION TREATMENT.
- DURING CONSTRUCTION, GRATE INLET AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.
- CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES FOR EMPLOYEES AND DELIVERY OF MATERIALS.
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SITE IS CLEAN ONCE CONSTRUCTION IS FINISHED.
- CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
- THE CONTRACTOR SHALL ACCURATELY PLOT THE LOCATIONS AND DEPTHS OF ALL IMPROVEMENTS INSTALLED ON A FINAL SET OF RECORDED DRAWINGS WHICH SHALL BE DELIVERED TO THE ENGINEER.
- CONTRACTOR SHALL INCORPORATE BEST MANAGEMENT PRACTICES TO PREVENT CONSTRUCTION DEBRIS, DUST, AND OTHER MATERIALS FROM LEAVING THE IMMEDIATE WORK AREA AND ENTERING LOCAL WATERS. THIS INCLUDES TURBIDITY CONTROLS AND MONITORING FOR IN-WATER WORK AND OTHER LAND-DISTURBING ACTIVITIES. TURBIDITY CONTROLS AND MONITORING SHALL BE IN ACCORDANCE WITH PROJECT PERMITS.
- ALL PILES SHALL ACHIEVE EMBEDMENT AS SHOWN IN PLANS.
- CONSTRUCTION OF BOARDWALK DESIGN MAY REQUIRE MINOR GRADING BY CONTRACTOR TO ACHIEVE DESIRED GRADES. CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM ENGINEER PRIOR TO GRADING COMMENCEMENT.
- UNLESS OTHERWISE NOTED, PILES SHALL BE INSTALLED IN THE SAME LOCATIONS AS PREVIOUS PILES TO MINIMIZE ENVIRONMENTAL IMPACT.
- REMOVAL OF VEGETATION SHALL ONLY BE ALLOWED WITHIN BOARDWALK LIMITS. REMOVAL OF VEGETATION OUTSIDE BOARDWALK LIMITS SHALL REQUIRE PRIOR APPROVAL FROM COUNTY OR ENGINEER.
- ALL CONSTRUCTION MATERIALS SHALL BE PER PLAN DETAILS.
- ALL PILES SHALL BE CUT OFF BELOW DECK. WATERPROOF PILE TOPS WITH DENSO 35 TAPE.
- BEVEL TOP EDGE OF STANCHIONS, RAILS, AND DECKING TO REMOVE SHARP EDGES AND SPLINTERS.
- CONTRACTOR SHALL ENSURE RAILING IS FREE OF BURRS AND SHARP EDGES.
- CONTRACTOR SHALL CONDUCT CLEANUP ON A DAILY BASIS.
- CONTRACTOR SHALL NOT SAW CUT PLASTIC MATERIALS WITHIN PRESERVE AREA. ALL COMPOSITE DECK BOARDS SHALL BE CUT TO LENGTH OFFSITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A LOCAL BUILDING PERMIT AND A FLOODPLAIN PERMIT FROM THE LOCAL FLOODPLAIN ADMINISTRATOR, IF REQUIRED.

**SITE DEMOLITION:**

- ANY SITE DEMOLITION IS BASED ON AVAILABLE INFORMATION PROVIDED TO ENGINEER AND MAY NOT COVER ALL ASPECTS OF THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COVER ALL EXISTING INFRASTRUCTURE TO BE REMOVED IN THEIR DEMOLITION BUDGET.
- CONTRACTOR SHALL SUBMIT VERIFICATION OF COMPLIANCE THAT ALL DEMOLITION DEBRIS IS DISPOSED OF IN A MANNER CONSISTENT WITH FDEP REGULATIONS.

**EXISTING UTILITY NOTE:**

- CONTRACTOR TO CONTACT "SUNSHINE 811" FOR LOCATES TWO BUSINESS DAYS BEFORE YOU DIG, 1-800-432-4770. STATE, COUNTY, AND CITIES ARE NOT PART OF THE ONE CALL SYSTEM, THEY MUST BE CALLED INDIVIDUALLY.

**ACCESSIBILITY DESIGN GUIDELINES:**

- ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM THE MOST STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT AT THE TIME OF CONSTRUCTION.

**GENERAL IN-WATER WORKING CONDITIONS:**

- ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL ALWAYS OPERATE AT "IDLE SPEED/NO WAKE" WHILE IN THE IMMEDIATE PROJECT AREA.
- PRIOR TO INITIATING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS.
- VESSELS SHALL NOT PROP-- OR WHEEL--WASH.
- MANGROVES: NO IMPACT MAY BE MADE TO THE EXISTING MANGROVES IN THE PROJECT LOCATION.
- ALL ACTIVITIES MUST BE COMPLETED DURING DAYLIGHT HOURS.

**CONDITIONS FOR WORKING AROUND ANIMALS:**

- ALL PROJECT PERSONNEL SHALL BE EDUCATED ABOUT THE PRESENCE OF THE FOLLOWING SPECIES, AS WELL AS THE CONDITIONS FOR WORKING NEAR THESE SPECIES:
  - EASTERN INDIGO SNAKE
  - MANATEES
  - KEMP'S RIDLEY SEA TURTLE
  - HAWKSBILL SEA TURTLE
  - LOGSHEAD SEA TURTLE
  - LEATHERBACK SEA TURTLE
  - GREEN SEA TURTLE
  - SMALLTOOTH SAWFISH
  - NASSAU GROUPEE
  - GIANT MANTA RAY
  - QUEEN CONCH
- ALL PROJECT PERSONNEL SHOULD PROCEED WITH CAUTION WHEN WORKING WITHIN SMALLTOOTH SAWFISH CRITICAL HABITAT.
  - ANY COLLISION(S) WITH AND/OR INJURY TO ANY SEA TURTLE OR SAWFISH OCCURRING DURING THE CONSTRUCTION OF A PROJECT SHALL BE REPORTED IMMEDIATELY TO NMFS'S PROTECTED RESOURCES DIVISION (PRD) AT (1-727-824-5312) OR BY EMAIL TO TAKEREPORT.NMFSRES@NOAA.GOV AND SAJ-RD-ENFORCEMENT@USACE.ARMY.MIL.
- ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF PROTECTED SPECIES. ALL PERSONNEL SHALL BE ADVISED THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING ESA-LISTED SPECIES OR MARINE MAMMALS.
  - IF THE DETECTION OF SPECIES IS NOT POSSIBLE DURING CERTAIN WEATHER CONDITIONS (E.G. FOG, RAIN, WIND), THEN IN-WATER OPERATIONS WILL CEASE UNTIL WEATHER CONDITIONS IMPROVE AND DETECTION IS AGAIN FEASIBLE.
  - OPERATION OF ANY MECHANICAL CONSTRUCTION EQUIPMENT, INCLUDING VESSELS, SHALL CEASE IMMEDIATELY IF A LISTED SPECIES IS OBSERVED WITHIN A 50-FT RADIUS OF CONSTRUCTION EQUIPMENT AND SHALL NOT RESUME UNTIL THE SPECIES HAS DEPARTED THE AREA OF ITS OWN VOLITION.
  - IF ANY SEA TURTLES ARE SIGHTED, A MINIMUM DISTANCE OF 150 FT MUST BE MAINTAINED.
  - IF ANY OTHER MARINE MAMMALS SUCH AS DOLPHINS, WHALES, OR PORPOISES ARE SPOTTED A MINIMUM DISTANCE OF 300 FT MUST BE MAINTAINED.
- ALL PROJECT PERSONNEL SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES.
- CONTRACTOR SHALL COMPLY WITH THE STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE, REVISED AUGUST 2013 DOCUMENT.
- WHETHER OR NOT EASTERN INDIGO SNAKES ARE OBSERVED DURING CONSTRUCTION ACTIVITIES, A MONITORING REPORT SHOULD BE SUBMITTED TO THE APPROPRIATE USFWS FIELD OFFICE WITHIN 60 DAYS OF PROJECT COMPLETION. THE REPORT CAN BE SENT ELECTRONICALLY TO VEROB@CHFWFS.GOV.
- THE FOLLOWING SIGNS SHALL BE POSTED BY CONTRACTOR DURING CONSTRUCTION:
  - SAVE SEA TURTLE/SAWFISH AND DOLPHIN SIGN (USACE)
  - INDIGO SNAKE POSTER (USFWS)
  - CAUTION BOATERS MANATEE SIGN (FWCC)
  - IDLE SPEED/NO WAKE MANATEE SIGN (FWCC)
- CONTRACTOR SHALL FOLLOW THE NOAA FISHERIES PROTECTED SPECIES CONSTRUCTION CONDITIONS.

**JOHNSON ENGINEERING**  
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JORDAN LEVI VARBLE, PE  
FL License No. 81414

Lee County  
Southwest Florida

ROYAL PALM PARK  
VARIOUS BOARDWALK  
REPAIRS  
LEE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION	DATE

DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 04-44-25  
SCALE: AS SHOWN

**GENERAL NOTES & ABBREVIATIONS**

SHEET NUMBER

**C02**



**ROYAL PALM PARK  
 VARIOUS BOARDWALK  
 REPAIRS  
 LEE COUNTY, FLORIDA**

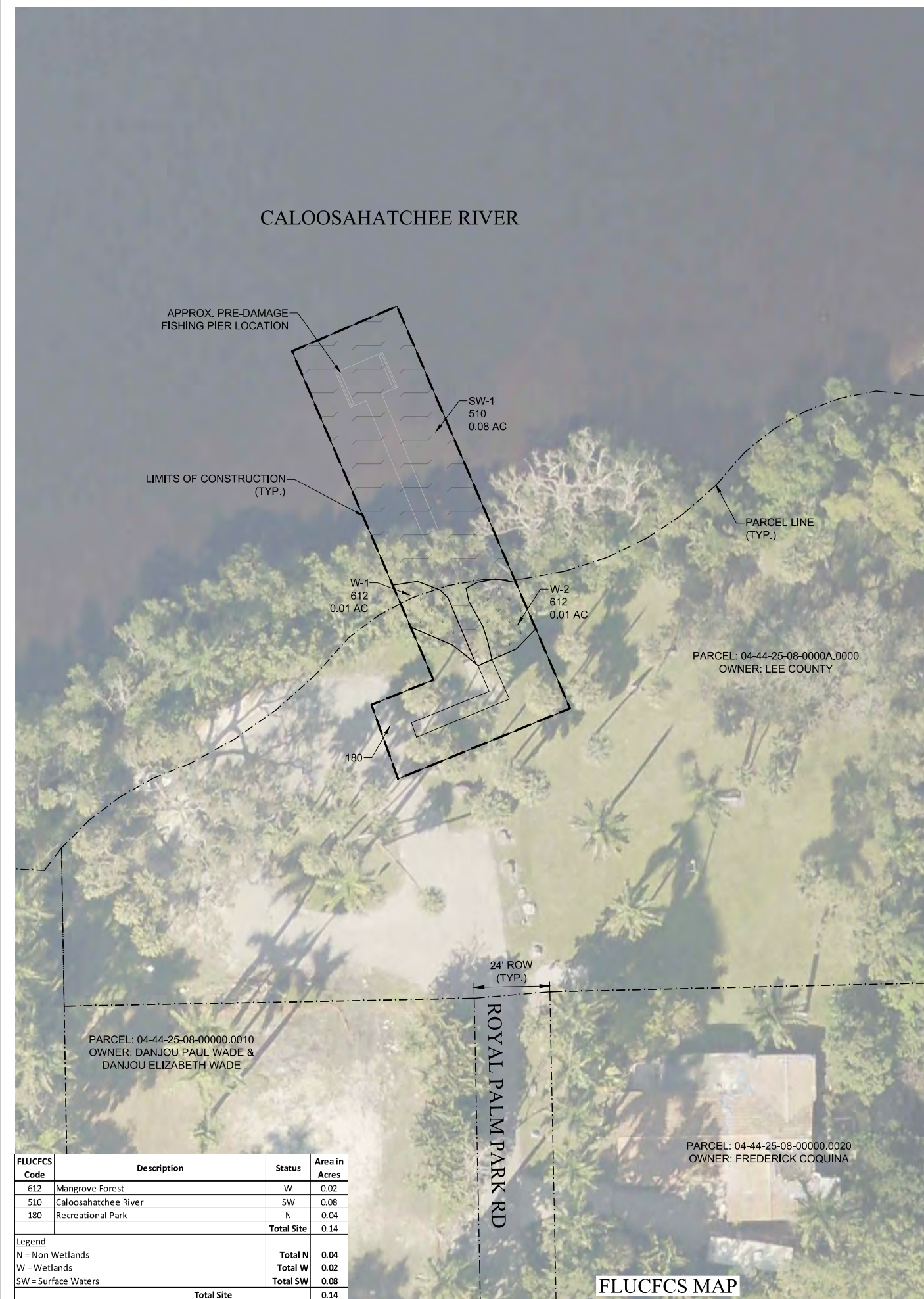
NO.	DESCRIPTION	DATE

DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 04-44-25  
 SCALE: AS SHOWN

**FLUCFCS & SOILS  
 MAP**

SHEET NUMBER

**C03**

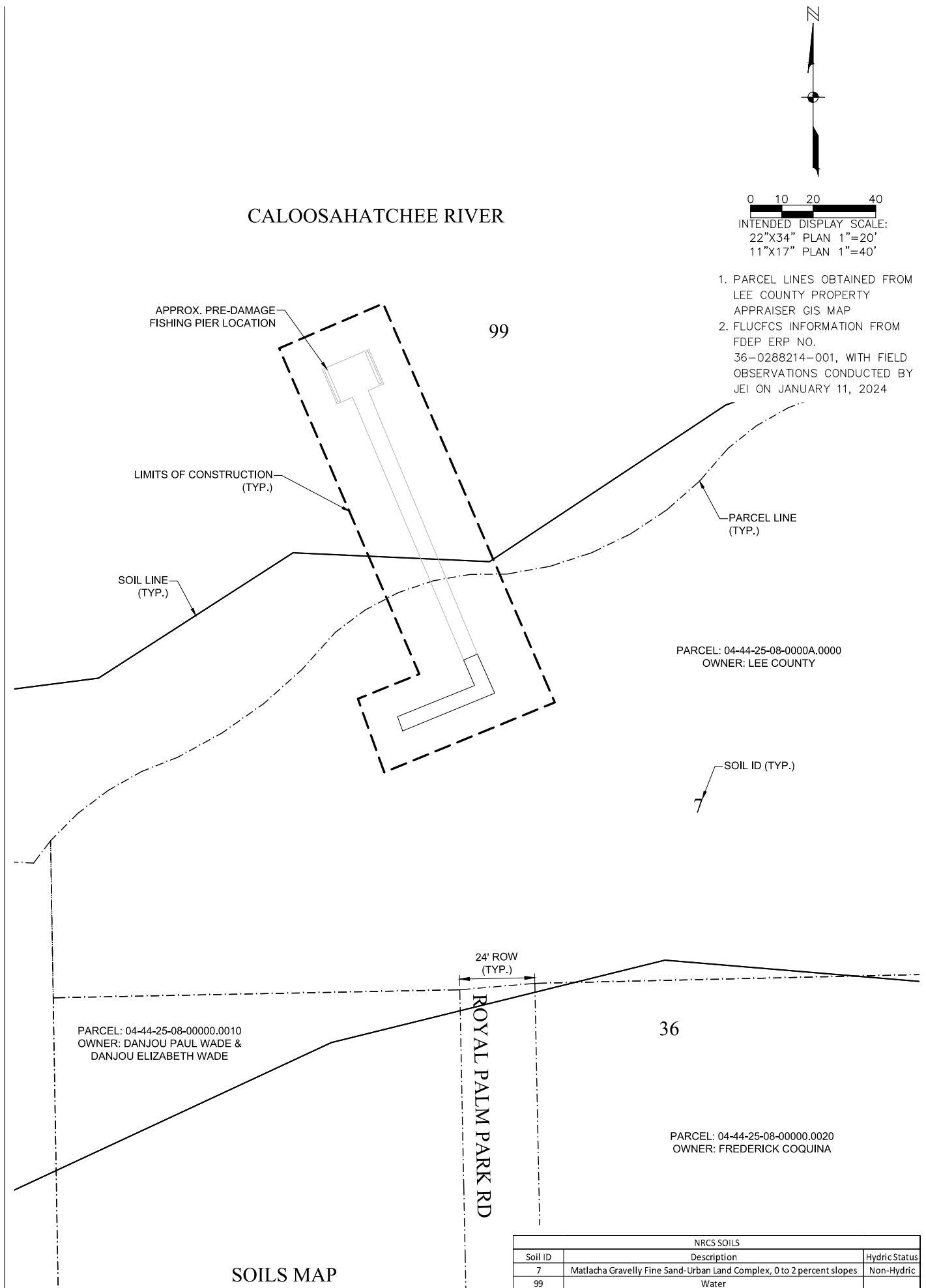


FLUCFCS Code	Description	Status	Area in Acres
612	Mangrove Forest	W	0.02
510	Caloosahatchee River	SW	0.08
180	Recreational Park	N	0.04
<b>Total Site</b>			<b>0.14</b>

Legend	
N = Non Wetlands	<b>Total N 0.04</b>
W = Wetlands	<b>Total W 0.02</b>
SW = Surface Waters	<b>Total SW 0.08</b>
<b>Total Site 0.14</b>	

**FLUCFCS MAP**



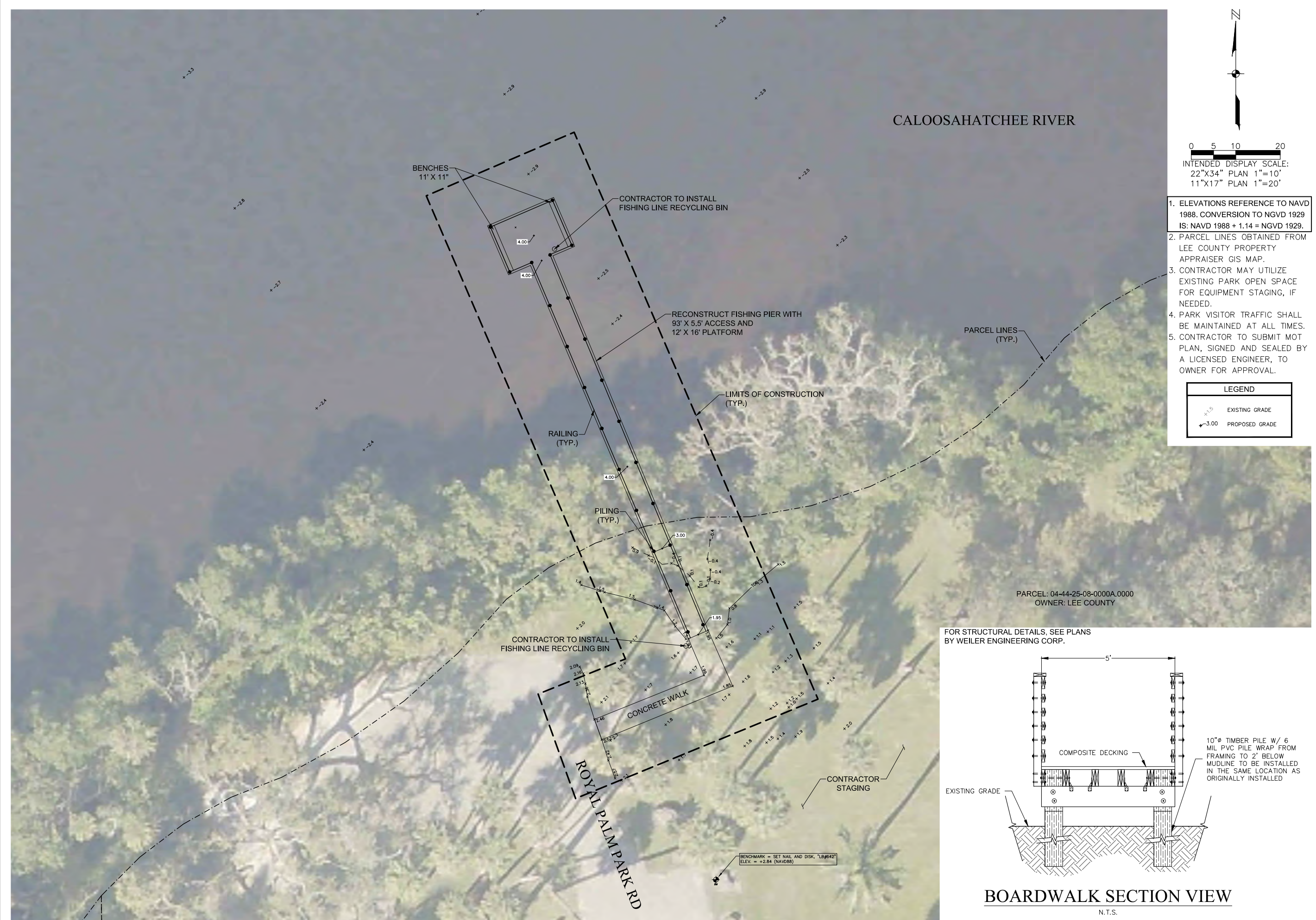
NRCS SOILS		
Soil ID	Description	Hydric Status
7	Matlacha Gravelly Fine Sand-Urban Land Complex, 0 to 2 percent slopes	Non-Hydric
99	Water	Water

**SOILS MAP**

INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=20'  
 11"X17" PLAN 1"=40'

1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP
2. FLUCFCS INFORMATION FROM FDEP ERP NO. 36-0288214-001, WITH FIELD OBSERVATIONS CONDUCTED BY JEI ON JANUARY 11, 2024

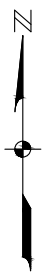




NO.	DATE	DESCRIPTION

DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 04-44-25  
SCALE: AS SHOWN

CALOOSAHATCHEE RIVER



0 5 10 20  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=10'  
 11"X17" PLAN 1"=20'

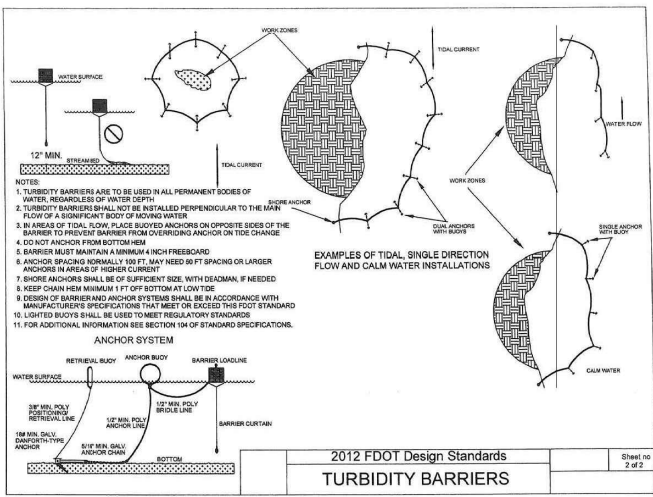
1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP

APPROX. PRE-DAMAGE FISHING PIER LOCATION

PROPOSED FLOATING TURBIDITY BARRIER TO BE IN PLACE DURING PILE DRIVING ACTIVITIES

PARCEL LINE (TYP.)

LIMITS OF CONSTRUCTION (TYP.)



2012 FDOT Design Standards  
 TURBIDITY BARRIERS  
 Sheet no 2 of 2

Figure V-16: Illustration of Installing a Floating Turbidity Barrier



ROYAL PALM PARK  
 VARIOUS BOARDWALK  
 REPAIRS  
 LEE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION	DATE

DATE: FEBRUARY 2025  
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 SCALE: AS SHOWN

EROSION CONTROL PLAN

SHEET NUMBER  
**C06**



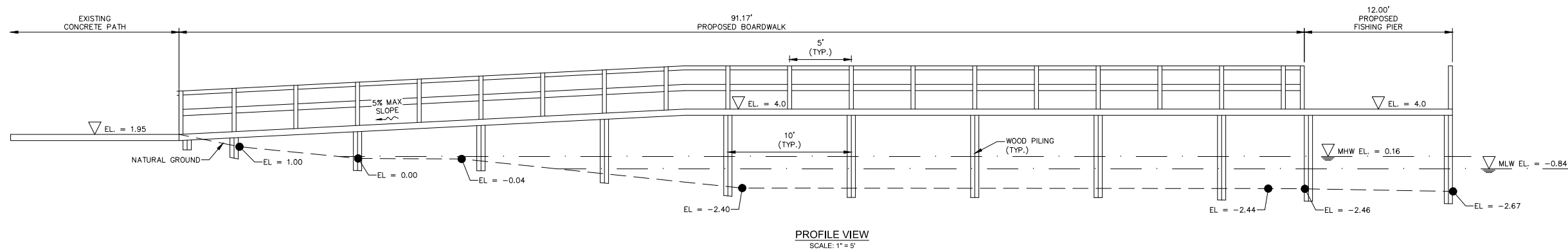
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VARIOUS BOARDWALK  
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DATE: FEBRUARY 2025  
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FILE NO. 04-44-25  
SCALE: AS SHOWN



3. TIDAL DATA PER TIDE INTERPOLATION POINT NO. 1223, ACCESSED FROM LABINS MAY 28, 2024



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  
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**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](mailto: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 1/2" 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. These signs can be viewed at [MyFWC.com/manatee](http://MyFWC.com/manatee). Questions concerning these signs can be sent to the email address listed above.

**FISHING PIER SIGNAGE:**

CONTRACTOR SHALL FURNISH AND POST THE FOLLOWING SIGNS. CONTRACTOR SHALL COORDINATE SIGN GRAPHICS AND COLORS WITH LEE COUNTY PARKS AND RECREATION. SIGNS SHALL COMPLY WITH FWC GUIDELINES. SIGNS SHALL BE 1.5 FT WIDE X 2 FT HIGH.

1. ANGLERS SHALL NOT DISPOSE OF FISH NEAR CASES AND/OR FISHING LINE OR DEBRIS IN THE WATER.
2. SAVE SEA TURTLES AND DOLPHINS
3. REPORT A STURGEON
4. SAVE SAWFISH

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ROYAL PALM PARK  
VARIOUS BOARDWALK  
REPAIRS  
LEE COUNTY, FLORIDA

NO.	DESCRIPTION	DATE

DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 04-44-25  
SCALE: AS SHOWN

ENVIRONMENTAL  
PROTECTION  
DETAILS

SHEET NUMBER

**C08**