



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
9900 SOUTHWEST 107TH AVENUE, SUITE 203
MIAMI, FLORIDA 33176

November 20, 2020

REPLY TO
ATTENTION OF

Regulatory Division
South Permits Branch
Miami Permits Section
SAJ-2019-01037 (NW-MIB)

Florida Department of Environmental Protection (FDEP)
C/o Michael Foster
3900 Commonwealth Blvd.
Tallahassee, Florida 32399

Dear Mr. Foster:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on February 3, 2020, the file number SAJ-2019-01037. A review of the information and drawings provided indicates that the proposed work is to demolish the existing restroom facility and associated deck located at Far Beach to relocate the restroom facility to an upland of John Pennekamp Coral Reef State Park, to excavate the existing fill mound underneath the existing restroom facility to restore elevations to match adjacent elevations and replant area with native vegetation, to realign portions of the pile-supported boardwalk to connect directly to the observation platform, to replace the existing observation platform within the same footprint, and to install temporary floating turbidity barriers and silt fencing around all work areas. To place 13.2 cubic yards of fill within a 237.5 sq. ft wetland area to stabilize the sidewalk expansion area labeled as impact #1 and silt fencing around all work areas. The project is located in John Pennekamp Coral Reef State Park at 102601 Overseas Hwy adjacent to the Atlantic Ocean in Section 23, Township 61 South, Range 39 East, Key Largo, Monroe County, Florida (MM102). RE#00086850-000000.

Your project, as depicted on the enclosed drawings date-stamped by the Corps on November 20, 2020, is authorized by Nationwide Permit (NWP) Number 3, 18, & 27. In addition, project specific conditions have been enclosed. This verification is valid until **March 18, 2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits,

Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is:

<http://www.saj.usace.army.mil/Missions/Regulatory.aspx>

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 3, 18, & 27. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. **REPORTING ADDRESS:** The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to either (not both) of the following addresses:

a. For electronic mail (preferred): SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).

b. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.

The Permittee shall reference this permit number, SAJ-2019-01037 (NW - MIB), on all submittals.

2. **SELF-CERTIFICATION:** Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form (Attached) and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

3. **ASSURANCE OF NAVIGATION AND MAINTENANCE:** The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

4. **MANATEE CONDITIONS:** The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – 2011" (Attached).

5. **TURBIDITY BARRIERS:** Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend to within 1 foot distance from the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all suspended and erodible materials have been stabilized. Turbidity barriers shall be removed upon stabilization of the work area.

6. **POSTING OF PERMIT:** The Permittee shall ensure that all contractors, sub-contractors, and entities associated with the implementation of the project review, understand, and comply with the approved plans and special conditions made part of this permit. The Permittee shall inform all parties associated with the activity of the construction area boundaries, and the location of adjacent wetland areas to be avoided. Complete copies of the permit and approved plans shall be available at the construction site at all times. Failure to comply with the approved plans and permit special conditions may subject the Permittee to enforcement action.

7. **AGENCY CHANGES/APPROVALS:** Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a re-verification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a re-verification of this permit from the **Miami** Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for re-verification of this permit.

8. **HISTORIC PROPERTIES:**

a. No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition ; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

9. JACKSONVILLE DISTRICT PROGRAMMATIC BIOLOGICAL OPINION (JAXBO), NOVEMBER 2017, PROJECT DESIGN CRITERIA (PDCS): Structures authorized under this permit must comply with all applicable PDCs, based on the permitted activity, as required by JAXBO. Please note that failure to comply with the applicable PDCs, where a take of listed species occurs, would constitute an unauthorized take, and noncompliance with this permit. The NMFS is the appropriate authority to enforce the terms and conditions of JAXBO. The most current version of JAXBO can be accessed at the Jacksonville District Regulatory Division internet webpage in the Endangered

Species section of the Sourcebook located at:

<http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx>

Note - JAXBO may be subject to revision at any time. The most recent version of these conditions must be utilized during the design and construction of the permitted work. In accordance with the Endangered Species Act, and for those projects which do not comply with JAXBO, the Corps will seek individual consultation with the NMFS.

For each of the following authorized activities subject of this permit, the permittee shall adhere to the following PDCs, which are attached to, and made part of, this

Activity 2 - Pile-supported Structures and Anchored Buoys: (AP.1-14; A2.1-16; S.1; S.2; S.4)

10. COMMENCEMENT NOTIFICATION: Within 10 days from the date of initiating the work authorized by this permit the Permittee shall submit a completed "Commencement Notification" Form (Attached).

11. FILL MATERIAL: The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.

12. EROSION CONTROL: Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the work area into waters of the United States. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas shall be stabilized using sod, degradable mats, barriers, or a combination of similar stabilizing materials to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized.

13. HANDLING AND STORAGE OF EXCAVATED MATERIAL: Handling and storage of excavated material must be completed in a manner that prevents sedimentation, erosion, and turbidity during excavation, overflow, transferring, and storage of the excavated material.

14. EXCAVATION AND RESTORATION WORK METHODOLOGY: The excavation and associated restoration work shall be conducted in accordance with the attached drawings date stamped by the Corps on November 20, 2020. The excavation work associated with the restoration work at the existing restroom facility shall be limited to the existing fill mound footprint underneath the restroom facility and deck area. Said area will be excavated and graded to bordering elevations to promote vegetation

recruitment and flushing. In addition, native vegetation shall be planted within the recently excavated and graded area to enhance restoration success. The staging area shall be limited to the existing upland parking area. The construction ingress/egress shall be limited to the existing boardwalk path and restroom facility and deck area. This authorization does not permit removal of wetlands/mangroves to adjacent wetland resources.

15. BEST MANAGEMENT PRACTICE (BMP): Environmental controls and BMP must be implemented to properly contain construction materials and prevent fugitive particulates from entering surrounding waters during construction.

16. NEW RESTROOM FACILITY METHODOLOGY: The new restroom facility, associated parking, roadway, and other associated construction activity shall be limited to the upland areas as depicted in the drawings date-stamped by the Corps on November 20, 2020. No dredge or fill activity is authorized for the construction of the new restroom facility within waters of the U.S. including adjacent wetland area(s).

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 305-779-6057.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

-7-

Sincerely,

Maria Bezanilla
Project Manager

Enclosures

Copy/ies Furnished:
Weiler Engineering Consultants, agent- email

GENERAL CONDITIONS
33 CFR PART 320-330

1. The time limit for completing the work authorized ends on **March 18, 2022**.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort of if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: SAJ-2019-01037 (NW-MIB)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019.

(TRANSFEREE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT)

(BLOCK)

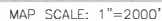
(NAME-PRINTED)

(STREET ADDRESS)

(MAILING ADDRESS)

(CITY, STATE, ZIP CODE)

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PROJECT # 61213

		Project Location
G100.0		COVER SHEET
G101.0	- G101.1	CIVIL GENERAL NOTES
C100.0		2018 AERIAL/FLUCCS MAP
C101.0	- C101.1	BEST MANAGEMENT PLAN & DETAILS
C102.0	- C102.1	EXISTING SITE CONDITIONS & DEMOLITION PLAN
C103.0	- C103.2	PROPOSED SITE PLAN
C104.0	- C104.1	PROPOSED SITE GRADING & DRAINAGE PLAN
C105.0	- C105.1	PROPOSED SITE UTILITY PLAN
C501.1		CROSS SECTIONS
S101.1		GENERAL REQUIREMENTS AND STRUCTURAL SPECIFICATIONS
S101.2		GENERAL NOTES FOR CAST IN PLACE CONCRETE GENERAL
S101.3		NOTES FOR LUMBER
S303.1		TYP. CROSS SECTION
S303.2		INTERIOR JOIST DETAIL
S303.3		EXTERIOR JOIST DETAIL
S303.4		BOARDWALK PLAN
S303.5		EXTERIOR ELEVATIONS
S303.6		TYP. PILING ANCHOR
S303.7		PILING PLAN

CODE LIST

FLORIDA BUILDING CODE, BUILDING (FBC-B)	2017 Edition
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)	2017 Edition
FLORIDA BUILDING CODE, MECHANICAL (FBC-M)	2017 Edition
FLORIDA BUILDING CODE, PLUMBING (FBC-P)	2017 Edition
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)	2017 Edition
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R)	2017 Edition
FLORIDA FIRE PREVENTION CODE (FFPC)	2017 Edition
NATIONAL ELECTRICAL CODE NFPA-70	2017 Edition
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST.	Latest Edition
FDOT STANDARD PLANS	Latest Edition
FLORIDA ACCESSIBILITY CODE	2017 Edition

CONSTRUCTION TYPE:	VB
OCCUPANCY CLASS:	U (UTILITY)
OCCUPANT LOAD:	N/A
TOTAL EXITS:	1
SQ FT ALTERED AREA	

DESIGN LOADS (FBC-B CHAPTER 16):
REFER TO SHEET S101.1 DESIGN LOADS

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS,
EQUIPMENT, SUPERVISION, AND PERMITTING TO
SUCCESSFULLY REPLACE THE RESTROOM AT JOHN
PENNEKAMP CORAL REEF STATE PARK.

KEY SHEET REVISIONS		
REV	DATE	DESCRIPTION

WEC *excellence in engineering*

GORDA, FLORIAN
(941) 505-1700
FB # 6666

CN230

11/18/2020

INITIAL ISSUE DATE

R. Jeff Weiler
Digitally signed by R. Jeff Weiler
Date: 2020.11.20 14:45:54 -05'00'

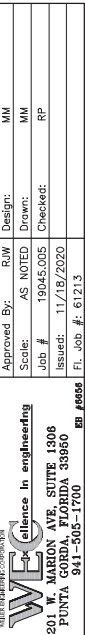
R. Jeff Weiler,
Professional Engineer,
State of Florida,
License No. 46027
This item has been
digitally signed and sealed by
R. Jeff Weiler, P.E.
on the date indicated here.
11/18/2020
Printed copies of this document are
not considered signed and sealed
and the signature must be verified
on any electronic copies.

R. Jeff Weiler, P.E.
Professional Engineer
State of Florida
Registration No. 46027



This map illustrates the project limits for the John Pennekamp Coral Reef State Park. The park's boundary is defined by a dashed line, while the project limits are indicated by a solid line. The map includes several land use designations and codes:

- 5000 5710 MAJOR BODIES OF WATER ATLANTIC OCEAN**: Located at the top of the map.
- 6000 6120 WETLAND HARDWOOD FORESTS MANGROVE SWAMPS**: Multiple areas of wetland and mangrove swamps are labeled with this code.
- 1000 1850 RECREATIONAL PARKS AND ZOOS**: Two areas of recreational parks and zoos are labeled with this code.
- PROJECT LIMITS**: Two labels with arrows pointing to the solid line boundary.
- JOHN PENNEKAMP CORAL REEF STATE PARK**: The main title of the map.



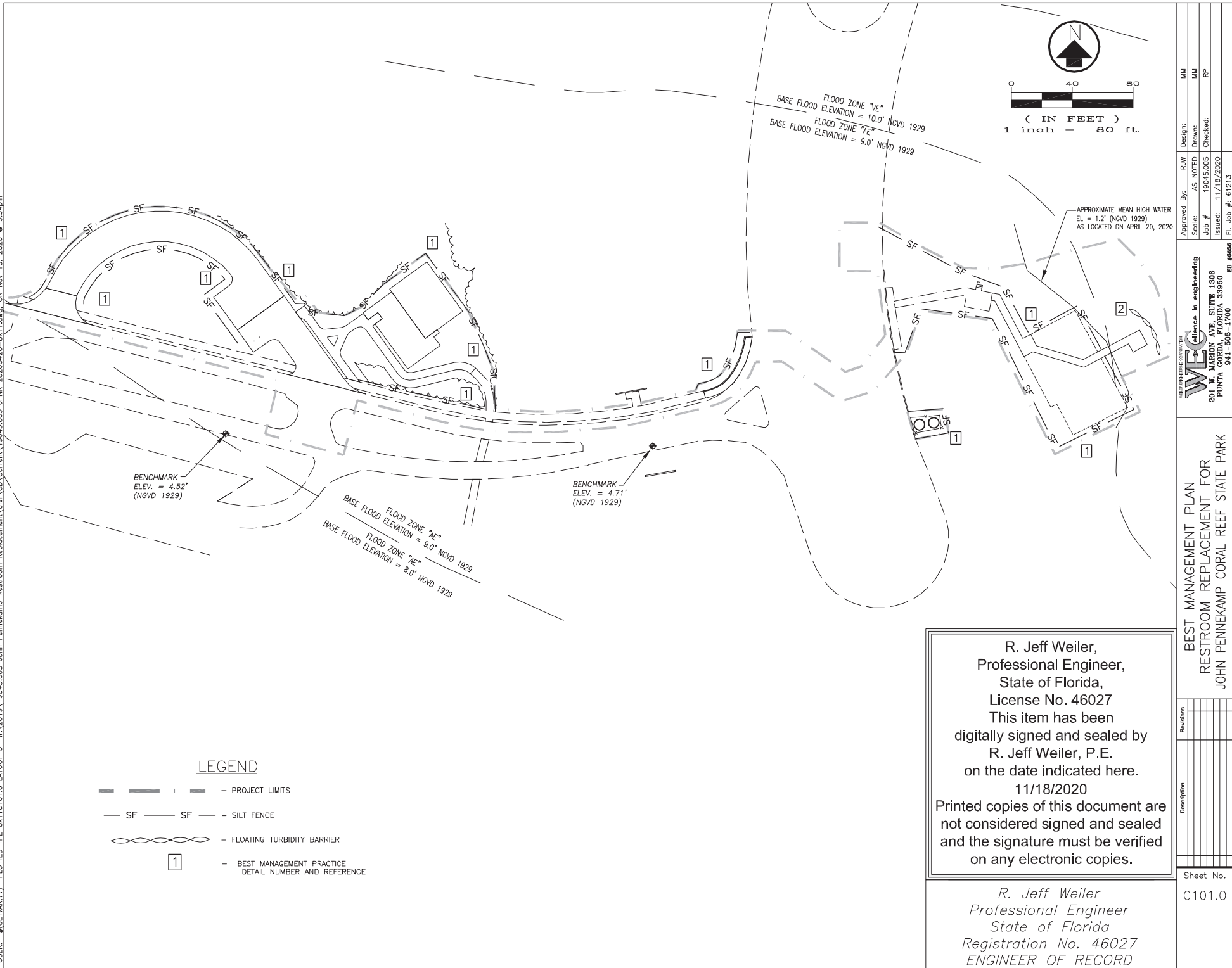
2018 AERIAL/FLUCCS MAP
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

R. Jeff Weiler,
Professional Engineer,
State of Florida,
License No. 46027
This item has been
digitally signed and sealed by
R. Jeff Weiler, P.E.
on the date indicated here.
11/18/2020
Printed copies of this document are
not considered signed and sealed
and the signature must be verified
on any electronic copies.

R. Jeff Weiler
Professional Engineer
State of Florida
Registration No. 46027
ENGINEER OF RECORD

[illegible]

Sheet No.
C100.0



R. Jeff Weiler,
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State of Florida
Registration No. 46027
ENGINEER OF RECORD

Sheet No.		C101.0	
Description		BEST MANAGEMENT PLAN RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK	
Revisions		201 W. MARION AVE, SUITE 1306 PUNTA GORDA, FLORIDA 33960 941-505-1700 WEC <i>alliance in engineering</i> NEEL ENGINEERING COMPANY	
Approved By:	RJW	Design:	MM
Scale:	AS NOTED	Drawn:	MM
Job #	19045.005	Checked:	RP
Issued:	11/19/2020		
Fl. Job #:	61213		
	KB #0056		

USER: \$(GETVAR,??) PLOTTED THE 8x11C101.1 LAYOUT OF W:\2019\19045.005 John Pennekamp Restroom Replacement\Civil\CD\Current\19045.005 JPNR 20200420-8x11.dwg, ON Nov 18, 2020 @ 3:34pm

Sheet No.		C101.1	
Description		BEST MANAGEMENT DETAILS RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK	
		 201 W. MARION AVE, SUITE 1308 PUNTA GORDA, FLORIDA 33950 941-505-1700	
		Approved By: <u>AS NOTED</u> Design: <u>MM</u> Scale: <u>1/8"=1'-0"</u> Drawn: <u>MM</u> Job # <u>19045.005</u> Checked: <u>RP</u> Issued: <u>11/19/2020</u> Fl. Job #: <u>61213</u>	



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WEG *excellence in engineering*
MEMBER OF THE WEG CORPORATION
201 W. MARION AVE., SUITE 1308
PUNTA GORDA, FLORIDA 33950
041-505-1700

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.
2. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH THE WORK, CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THAT EXISTING EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE EXISTING UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE IS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS.
5. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT.
6. ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION, AT NO ADDITIONAL CHARGE TO THE OWNER.
7. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
8. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.
9. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.
10. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, EXCAVATION, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF EMBANKMENT AND BACKFILL. THE PLAN ALSO WILL DETAIL THE EROSION CONTROL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND WILL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES.
11. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND:

FDEP, BUREAU OF SURVEY AND MAPPING, MS 105
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399
(850) 245-2606 (OFFICE)
(850) 245-2645 (FAX)
12. PRIOR TO ANY SCHEDULED INTERRUPTION OF EXISTING UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE EXISTING UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC EXISTING UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
13. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE TREES IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.
15. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.
16. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.

EROSION CONTROL NOTES:

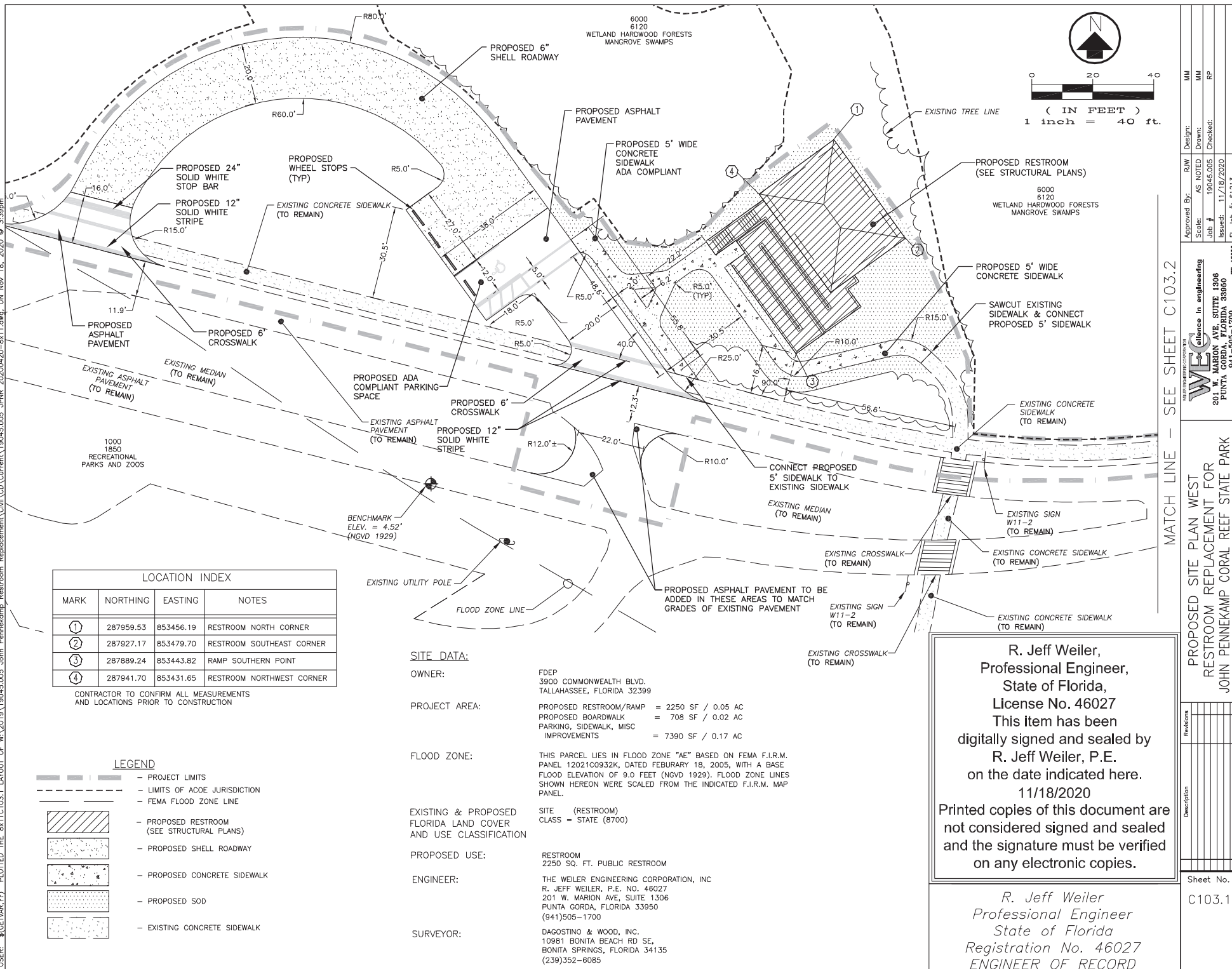
1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).
3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.

MM	Design:	Approved By:	RJW	AS NOTED	Score:	19045.005	Job #	19045.005	Drawn:	MM	Checked:	RP
MM	Drawn:	Issued:	11/18/2020	Fl. Job #	61213							
WE WILLIAM E. WEILER, P.E. Professional Engineer 201 W. MARION AVE., SUITE 1306 PUNTA GORDA, FLORIDA 33960 941-360-1700 PE #4956												
GENERAL SITE NOTES RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK												
Revisions												
Description												
Sheet No.												
C103.0												

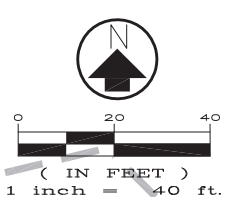
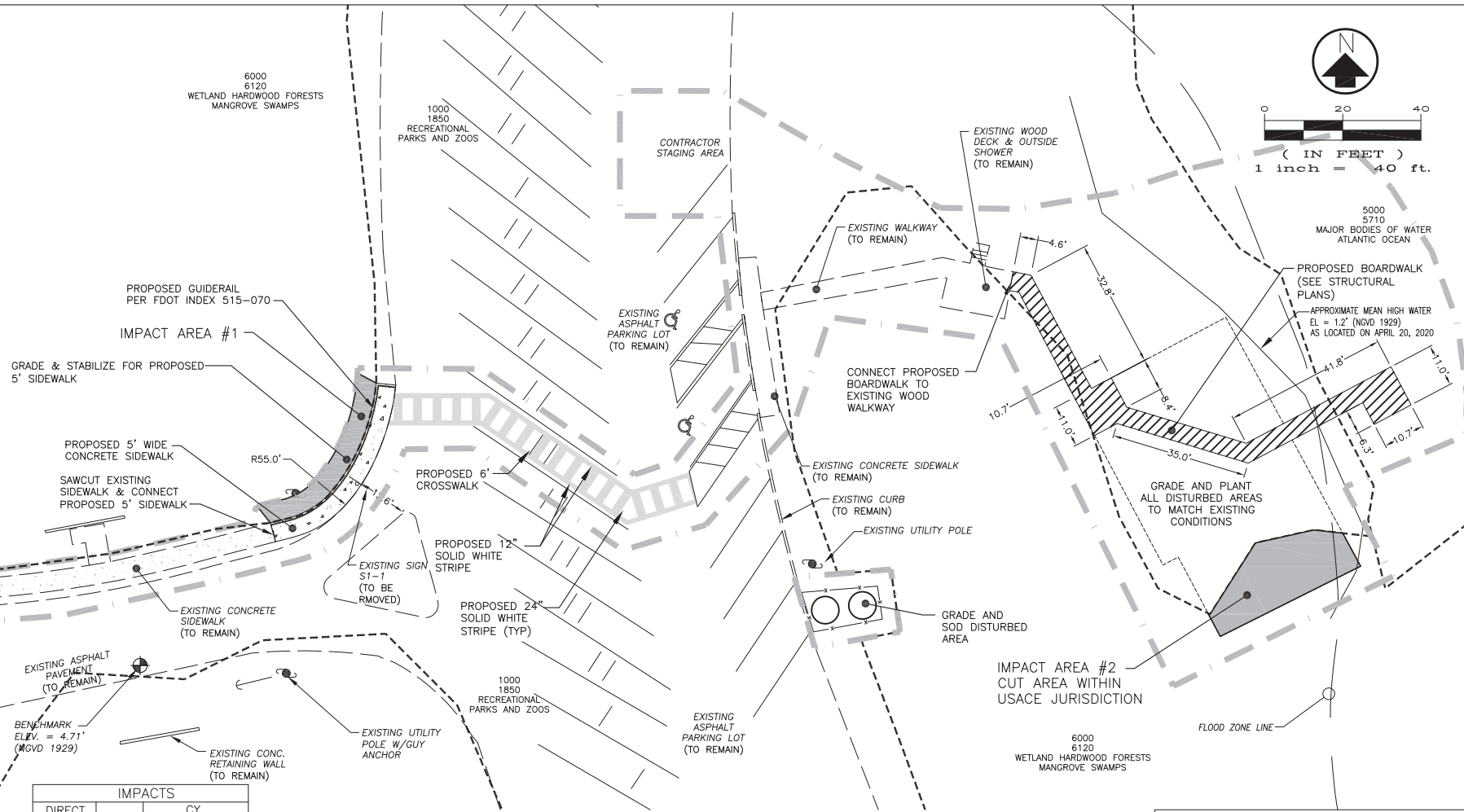
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MATCH LINE - SEE SHEET C103.1



IMPACTS			
DIRECT IMPACT	SF	CY	
		(+)FILL	(-)CUT
AREA #1	237.5	13.2	
AREA #2	524.5		-5.2
TOTAL =	762.0	(+)8.0	

BOARDWALK AREA:
BOARDWALK (EXISTING & PROPOSED) = 1163 SF
CONSTRUCTION SEAWARD OF MHWL = 177 SF
PROPOSED BOARDWALK = 708 SF

LEGEND

	- PROPOSED IMPACTS
	- PROJECT LIMITS
	- LIMITS OF ACOE JURISDICTION
	- FEMA FLOOD ZONE LINE
	- PROPOSED RESTROOM (SEE STRUCTURAL PLANS)
	- PROPOSED SHELL ROADWAY
	- PROPOSED CONCRETE SIDEWALK
	- PROPOSED SOD
	- EXISTING CONCRETE SIDEWALK

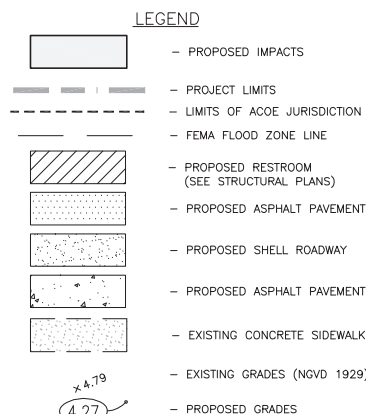
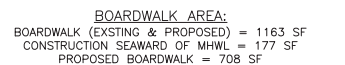
SITE GENERAL NOTES:

- ALL ELEVATIONS SHOWN ARE ON N.G.V.D. 1929 DATUM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITTING AGENCIES AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
- THERE SHALL BE NO CHANGE OR DEVIATION OF THESE PLANS OR SPECIFICATIONS UNLESS PRIOR WRITTEN APPROVAL FROM THE ENGINEER IS OBTAINED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF AND WHEN A POSSIBLE ERROR IS FOUND IN THE PLANS OR STAKED ALIGNMENT AND/OR GRADES. THE ENGINEER MAY ACCEPT, REVISE TO ACCOMMODATE CONDITIONS, OR REJECT THE FACILITY BEING CONSTRUCTED. IT IS IMPERATIVE THAT THE CONTRACTOR NOTIFY THE ENGINEER OF THESE SITUATIONS AS SOON AS POSSIBLE.
- THE CONTRACTOR IS REQUIRED TO SAW CUT EXISTING PAVEMENT OR SIDEWALK AS NECESSARY TO PROVIDE A UNIFORM CONSTRUCTION JOINT FOR ALL AREAS REQUIRING ASPHALT WORK, OR SIDEWALK CONSTRUCTION. THE COST OF SAWCUTTING A CLEAN CONSTRUCTION JOINT WILL BE INCIDENTAL TO THE ADJACENT WORK.
- EXISTING SIDEWALK REQUIRING REPLACEMENT AS SHOWN IN THE PLANS SHALL BE SAWCUT AND REMOVED AT THE NEAREST JOINT.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% POSITIVE OR NEGATIVE GRADE AND SHALL BE COMPLIANT WITH ADA REQUIREMENTS. ALL SIDEWALK AREAS EXCEEDING 2% DURING CONSTRUCTION WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S COST.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY ON-SITE OR OFF-SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND REPORT THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS, WHETHER THEY ARE IDENTIFIED ON THE DRAWINGS OR NOT.
- CONTRACTOR SHALL INCLUDE IN HIS BID PRICE THE COST OF EROSION CONTROL, EROSION AND SEDIMENT CONTROL. BEST MANAGEMENT SHALL BE OBSERVED DURING CONSTRUCTION BY THE CONTRACTOR. THE METHODS WHICH SHOULD BE USED INCLUDE BUT ARE NOT LIMITED TO:
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION ENTERING THE STORM DRAINAGE SYSTEM BOTH ON-SITE AND OFF-SITE. THE CONTRACTOR SHALL UTILIZE SAND BAGS AND SYNTHETIC BALES OR OTHER EROSION CONTROL METHODS TO CONTROL EROSION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING CONSTRUCTION BY UTILIZING WATER TRUCKS, ANTI-DRAFT FENCING AND BY COVERING OPEN BODIED TRUCKS TRANSPORTING DEBRIS.
- THE CONTRACTOR SHALL USE EXTREME CARE NOT TO DAMAGE THE ROOT SYSTEMS OF TREES AND OTHER LANDSCAPE FEATURES WHICH ARE TO BE SAVED AND/OR SALVAGED FOR RESTORATION PURPOSES. NO EQUIPMENT, SUPPLIES OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED.
- GRADE SITE TO PROMOTE DRAINAGE AWAY FROM STRUCTURES OR AS INDICATED ON THE PLANS.
- AS PART OF CLEARING AND GRUBBING, ALL DEBRIS IS TO BE REMOVED FROM THE PROJECT SITE AND SALVAGED BY THE CONTRACTOR OR TRANSPORTED TO LEGAL DISPOSAL AREAS.
- ALL SIGNAGE AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
- SUPERPAVE ASPHALT SHALL BE IN ACCORDANCE WITH SECTION 334 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).

R. Jeff Weiler,
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Registration No. 46027
ENGINEER OF RECORD

WE eBalance in engineering 201 W. MARION AVE., SUITE 1306 PUNTA GORDA, FLORIDA 33950 888-660-1700	Approved By: R.W. Scale: AS NOTED Job #: 19045.005 Issued: 11/18/2020 Fl. Job #: 61213	Design: MM Drawn: MM Checked: RP
	PROPOSED SITE PLAN EAST RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK	
	Revisions:	
	Description:	
Sheet No. C103.2		



IMPACTS			
DIRECT IMPACT	SF	CY	
		(+)FILL	(-)CUT
AREA #1	237.5	13.2	
AREA #2	524.5		-5.2
TOTAL =	762.0	(+)8.0	

PLANTING LIST: (EXISTING LIFT STATION)
2 BLOLLY (GUAPIRA DISCOLOR)
2 DARLING PLUM (REYNOSIA SEPTENTRIONALIS)
2 SPANISH STOPPER (EUGENIA FOETIDA)
2 YELLOW TOP (FLAVERIA LINEARIS)
2 WILD BAMBOO (LASIACIS DIVARICATE)

PLANTING LIST: (EXISTING RESTROOM)

- 2 BUTTWOOD (CONOCARPUS ERECTUS)
- 4 CHRISTMAS BERRY (LYCUM CAROLINIANUM)
- 2 MAYTEN (MAYTENUS PHYLANTHOIDES)
- 8 PURSLANE (PORTULACA SP)
- 1 SALTWORT (Batis maritima)
- 8 SAMPHIRE (PLATANOPAN VERMICULARE)
- 5 RAILROAD VINE (IPOMOEA PES-CAPRAE)
- 2 JOEWOOD (JACQUINIA KEYENSIS)
- 2 SALT BUSH (BACCHARIS HALIMIFOLIA)
- 3 WHITE INDIGO BERRY (RANDIA ACULEATA)
- 2 SEA GRAPE (COCOCCOLA UVIFERA)
- 2 SEA LAVENDER (LIMONUM CAROLINIANUM)
- 2 PRICKLY APPLE CACTUS (HARRISIA SIMPSONII)
- 5 SEA OXEYE (BORRICHIA FRUTESCENS)
- 5 SEA OX-EYE DAISY (BORRICHIA ARBORESCENS)

GROUND AROUND
STRUCTURES SHALL BE
SLOPED AWAY FROM
STRUCTURES (ALL SIDES)

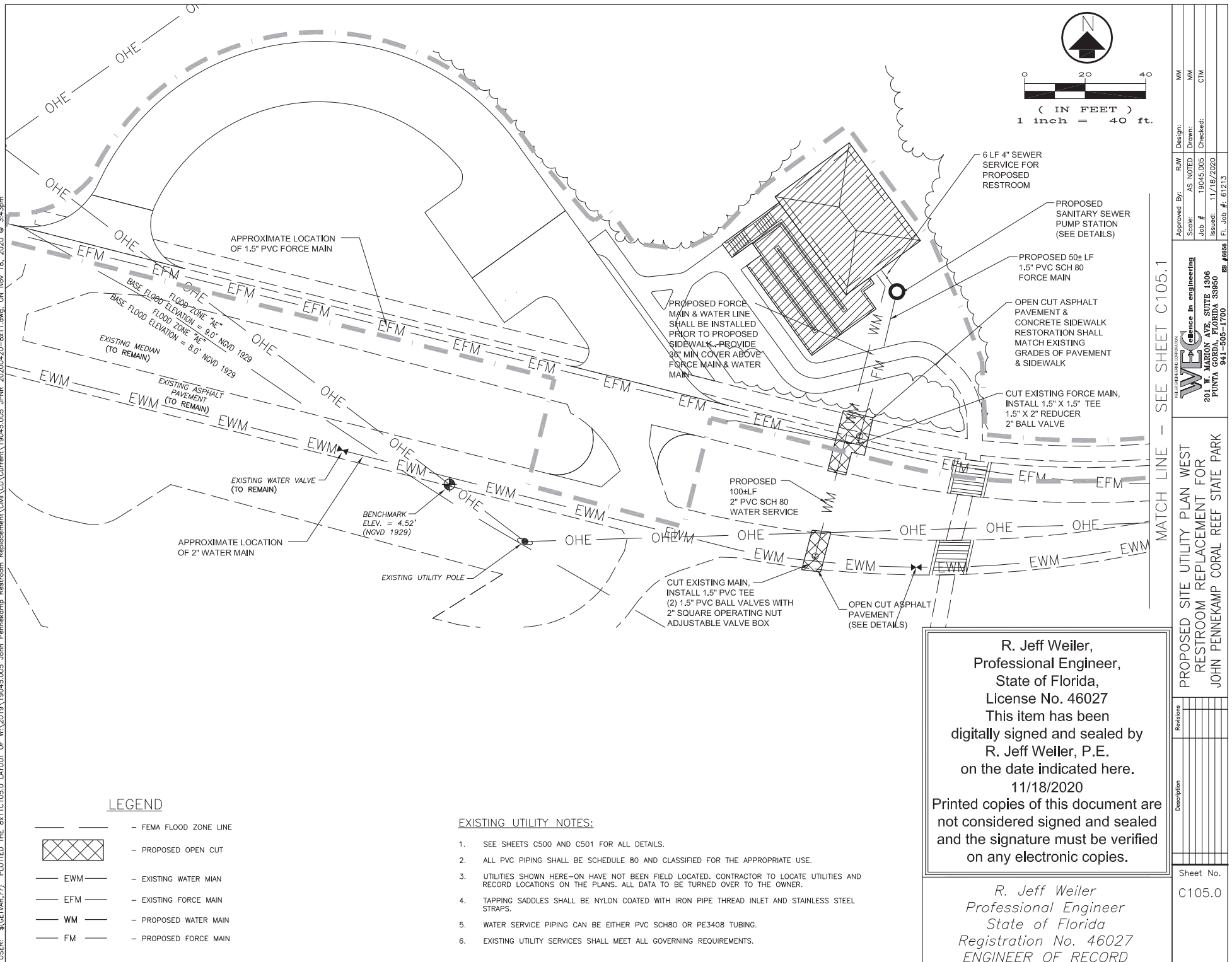
CONTRACTOR SHALL ENSURE
ALL PAVED SURFACES MEET
ADA REQUIREMENTS

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MATCH LINE - SEE SHEET C105.1

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Checked:	CTM
Approved By:	RJM
Scale:	AS NOTED
Job #:	19045.005
Issued:	11/18/2020
Fl. Job #:	61213
Revisions:	
Description:	
Sheet No.	C105.0

PROPOSED SITE UTILITY PLAN WEST
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

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LEGEND

- FEMA FLOOD ZONE LINE
- PROPOSED OPEN CUT
- EWM - EXISTING WATER MAIN
- EFM - EXISTING FORCE MAIN
- WM - PROPOSED WATER MAIN
- FM - PROPOSED FORCE MAIN

EXISTING UTILITY NOTES:

1. SEE SHEETS C500 AND C501 FOR ALL DETAILS.
2. ALL PVC PIPING SHALL BE SCHEDULE 80 AND CLASSIFIED FOR THE APPROPRIATE USE.
3. UTILITIES SHOWN HERE-ON HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO LOCATE UTILITIES AND RECORD LOCATIONS ON THE PLANS. ALL DATA TO BE TURNED OVER TO THE OWNER.
4. TAPPING SADDLES SHALL BE NYLON COATED WITH IRON PIPE THREAD INLET AND STAINLESS STEEL STRAPS.
5. WATER SERVICE PIPING CAN BE EITHER PVC SCH80 OR PE3408 TUBING.
6. EXISTING UTILITY SERVICES SHALL MEET ALL GOVERNING REQUIREMENTS.

MATCH LINE - SEE SHEET C105.0

—	—	FEMA FLOOD ZONE LINE
—	—	EWM — EXISTING WATER MAIN
—	—	EFM — EXISTING FORCE MAIN
—	—	WM — PROPOSED WATER MAIN
—	—	FM — PROPOSED FORCE MAIN

LEGEND

EXISTING UTILITY NOTES:

1. SEE SHEETS C500 AND C501 FOR ALL DETAILS.
2. ALL PVC PIPING SHALL BE SCHEDULE 80 AND CLASSIFIED FOR THE APPROPRIATE USE.
3. UTILITIES SHOWN HERE-ON HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO LOCATE UTILITIES AND RECORD LOCATIONS ON THE PLANS. ALL DATA TO BE TURNED OVER TO THE OWNER.
4. TAPPING SADDLES SHALL BE NYLON COATED WITH IRON PIPE THREAD INLET AND STAINLESS STEEL STRAPS.
5. WATER SERVICE PIPING CAN BE EITHER PVC SCH80 OR PE3408 TUBING.
6. EXISTING UTILITY SERVICES SHALL MEET ALL GOVERNING REQUIREMENTS.



0 20 40
IN FEET
1 inch = 40 ft.

BASE FLOOD ELEVATION = 10.0' NGVD 1929
FLOOD ZONE "A"
BASE FLOOD ELEVATION = 9.0' NGVD 1929

APPROXIMATE MEAN HIGH WATER
EL. = 1.2' (NGVD 1929)
AS LOCATED ON APRIL 20, 2020

EXISTING UTILITY
POLE W/GUY
ANCHOR

CUT & CAP EXISTING 1.5" PVC SEWER MAIN.
MARK END OF PIPE WITH A PIECE OF PVC
PIPE.

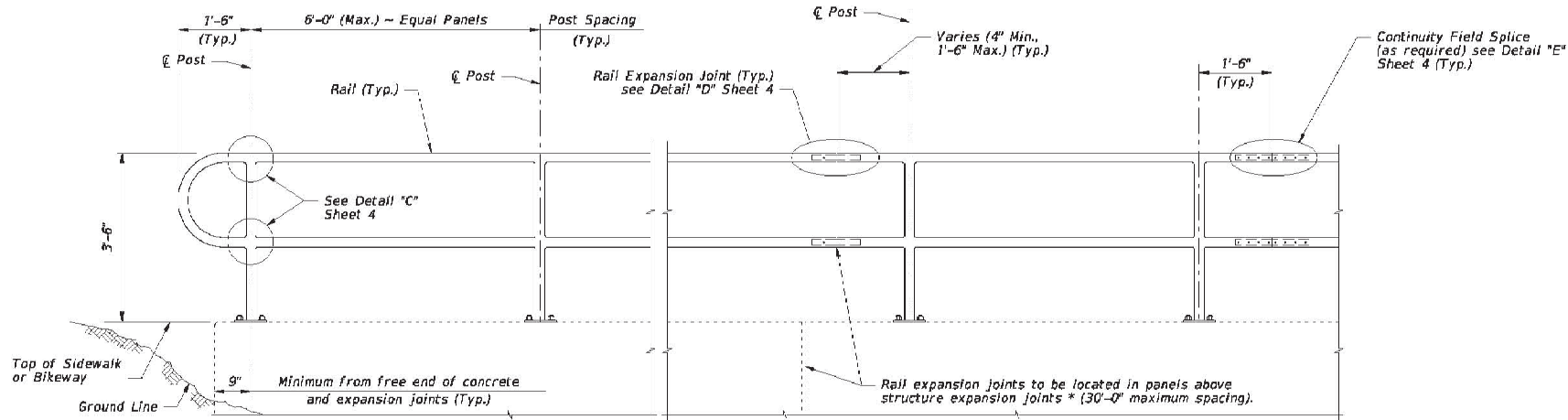
EXISTING LIFT
STATION TO BE
REMOVED

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DESIGNED BY: R. J. W.	DESIGNED: R. J. W.	DESIGNED: R. J. W.
SCALE: AS NOTED	SCALE: AS NOTED	SCALE: AS NOTED
JOB # 19045.005	JOB # 19045.005	JOB # 19045.005
ISSUED: 11/18/2020	ISSUED: 11/18/2020	ISSUED: 11/18/2020
FL. JOB # 61213	FL. JOB # 61213	FL. JOB # 61213
PROPOSED SITE UTILITY PLAN EAST RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK	PROPOSED SITE UTILITY PLAN EAST RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK	PROPOSED SITE UTILITY PLAN EAST RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK
Revisions	Revisions	Revisions
Description	Description	Description
Sheet No.	Sheet No.	Sheet No.
C105.1	C105.1	C105.1

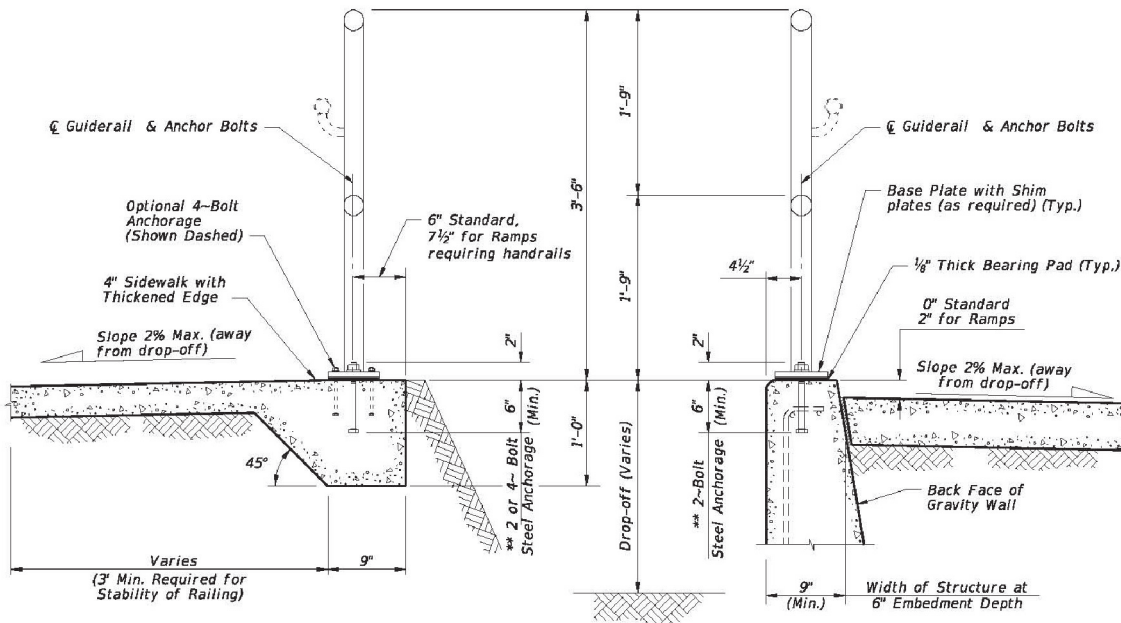
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ELEVATION

NOTE:
RAILINGS TO BE IN
ACCORDANCE WITH
FDOT INDEX 515-070.

TYPICAL RAILING DETAILS & RAILINGS ON GRADES 0% TO 5%



TYPICAL SECTION ON CONCRETE SIDEWALK

TYPICAL SECTION ON GRAVITY WALL
(Other Retaining Walls Similar)

PIPE GUIDERAIL (ALUMINUM)
NOT TO SCALE

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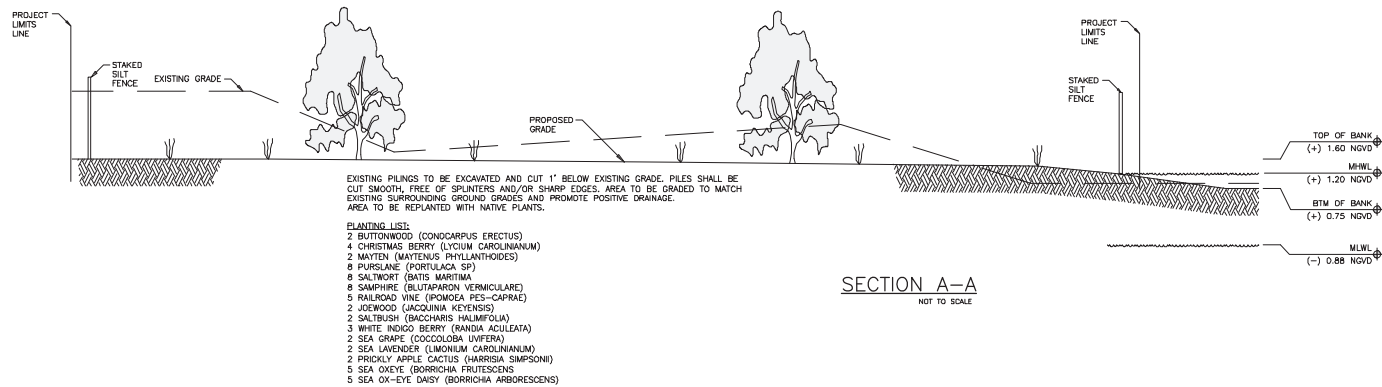
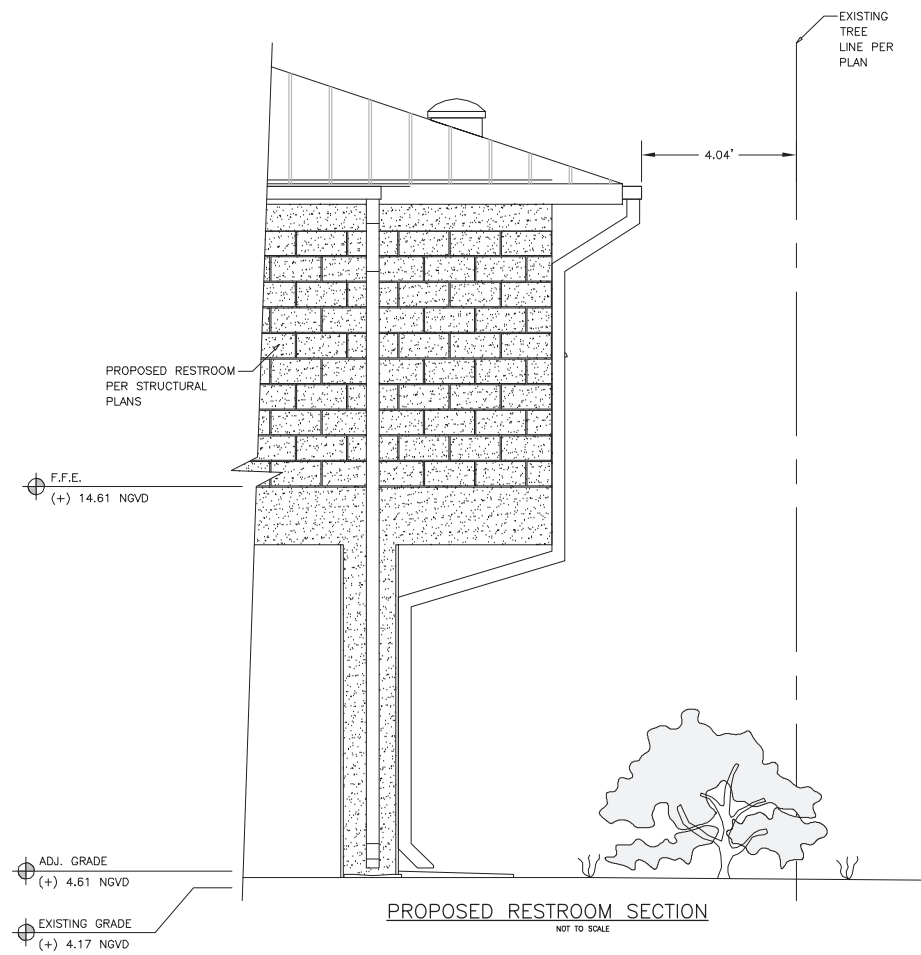
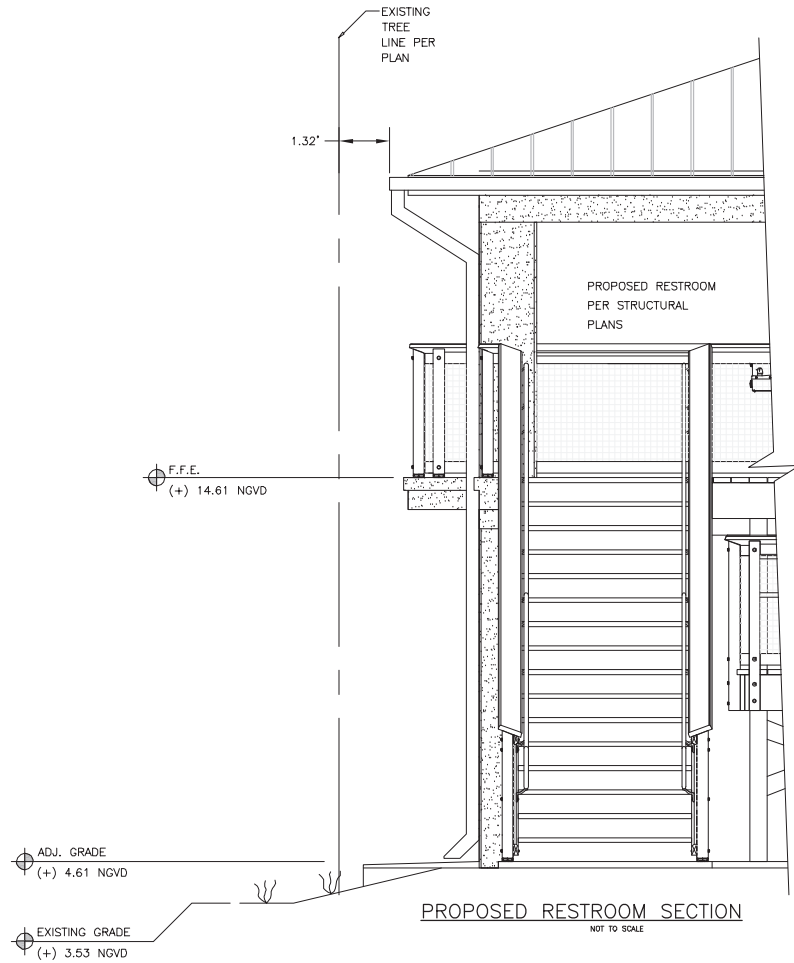
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WEC
WILLIAM E. COWEN, INC.
201 W. MARION AVE., SUITE 1306
PUNTA GORDA, FLORIDA 33960
888-455-1700

GENERAL DETAILS
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

Revisions

Sheet No.
C500.0



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R. Jeff Weiler
Professional Engineer
State of Florida
Registration No. 46027
ENGINEER OF RECORD

MM	Design:	MM
MM	Drawn:	MM
RP	Checked:	RP
Approved By:	RJW	AS NOTED
Scale:	19045.005	
Job #:	19045.005	
Issued:	11/18/2020	
Fl. Job #:	61213	
Fl. Job #:	61213	

CROSS SECTIONS
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

Revisions	Description

Sheet No.
C501.1

USER: \$(GETVAR,??) PLOTTED THE 6X11S101: LAYOUT OF W:\2019\19045.035 John Pennelcano
Replacement\Structural\DWG\CD\19045.035 John Pennelcano
20200526.dwg. ON May 26, 2020 @ 12:25pm

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1. GOVERNING BUILDING CODE: 2017 FLORIDA BUILDING CODE
2. DESIGN LOADS:
LIVE LOADS (PER FBC TABLE 1601.1):

FLOOR AND DECK LOADS

Floor DEAD LOAD: BUILDING: 150 PSF, BOARDWALK: 60 PSF
 Floor LIVE LOAD : BUILDING: 60 PSF, BOARDWALK: 60 PSF

ROOF LOADS

LIVE LOAD: BUILDING:..... 20 PSF
DEAD LOAD: BUILDING:..... 15 PSF

STAIR DESIGN LOADS (PER FBC 1601.1):

LIVE LOAD: 60 PSF
CONCENTRATED LIVE LOAD: 300 LB MID-TREAD

HANDRAIL AND GUARDRAIL DESIGN LOADS (FBC2017, SECTION 1607.1):

CONCENTRATED LOAD: 200 LB AT ANY POINT AND IN ANY DIRECTION APPLIED AT
1' OF GUARDRAIL.

UNIFORM LOAD: 50 P

0409 (PER ASCE 7-10):
 BASIC WIND SPEED (1609.3.1)
 Ultimate (V_{ult}) (THREE SECOND GUST): 180 MPH
 Nominal (V_{50}) 139 MPH
 RISK CATEGORY (1604.5): Category II
 WIND LOAD IMPORTANCE FACTOR: 1.00
 WIND EXPOSURE (1609.4): EXPOSURE D
 INTERNAL PRESSURE COEFFICIENT ($G_{p,i}$): -0.18 / +0.18 (Enclosed)
 COMPONENTS & CLADDING WIND PRESSURES: PER PLAN
 0409 DESIGN DATA (PER FBC 1612.1): BASE FLOOD ELEVATION: VE12

3. FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
4. THE STRUCTURAL DESIGN OF BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISION FOR CONDITION OCCURRING DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION.
5. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.

THE WEILER ENGINEERING CORPORATION

These plans are in Compliance with Florida Building Code 2017 for wind parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-10
Basic Wind Speed (Vult): 130 MPH
Nominal Design Wind Speed (Vasd): 139 MPH
Building Risk Category: II / Flood Design Data: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: D
Soil Design Load-Bearing Value: 2500 psf
Internal Pressure Coefficient: +.0 and -.10 (Enclosed)
Component & Cladding Wind Pressure: per Calcs

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Scale: AS NOTED	Drawn:	TWP
Job # 19045.005	Checked:	CTM
Fl. Job #: 61213		

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WHEELER ENGINEERING CORPORATION
2021 W. MARION AVE. SUITE 1306
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FAX #46856

**GENERAL REQUIREMENTS AND STRUCTURAL SPECIFICATIONS
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK**

[illegible]

Sheet No.

S101.1

CAST IN PLACE CONCRETE

- CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
BREAKAWAY SLABS 3,000 PSI
ELEVATED SLAB, COLUMNS, GRADE BEAMS, MISC. CONCRETE 5,000 PSI
- CONCRETE SHALL BE READY-MIX PER ASTM C94:
PORTLAND CEMENT - ASTM C150
AGGREGATES - ASTM C33 (3/4" MAX.)
NO CALCIUM CHLORIDE
AIR ENTRAINING - ASTM C260
WATER REDUCING - ASTM C494
FLYASH - ASTM C618 CLASS F (20% MAXIMUM BY WEIGHT)
WATER - CLEAN AND POTABLE
- REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE HOT DIPPED GALVANIZED FOR
FOUNDATION SLABS, FOOTINGS, CMU WALLS & TIE-BEAMS, ASTM A1034, ASTM A615, GRADE 60, $f_y = 60,000$ psi
REQUIRED SLUMP RANGE: = 3" TO 5".
- WELDED WIRE FABRIC: ASTM A-185, FURNISH SHEETS, NOT ROLLS.
- MOISTURE BARRIER: 6 MIL POLYETHYLENE, LAP 6" AND TAPE ALL JOINTS.
- CODES AND STANDARDS: (CURRENT EDITIONS)
ACI 301 SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS.
ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."
ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
ACI 315 (SP66-04) "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
- MINIMUM LAP SPLICES = CLASS 'B'
- PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC., AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.
- ALL BEAMS AND SLABS SHALL BE POURED MONOLITHICALLY, EXCEPT FOR REQUIRED CONSTRUCTION JOINTS. PROPOSED CONSTRUCTION JOINT LOCATION SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, AND SLAB RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.
- SEE PROJECT PLANS AND SPECIFICATIONS FOR REQUIRED CONCRETE FINISHES. ALL FINISHES TO BE APPROVED BY OWNER PRIOR TO FINISHING.

- ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
* APPLY A LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C309.
* PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH ACI 301.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING, AND RESHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA ENGINEER.
- A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS ON SITE:
* CYLINDER STRENGTH TESTS - ASTM C39: ONE SET OF FOUR CYLINDERS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF. TEST ONE CYLINDER AT 1 DAYS AND TWO AT 28 DAYS. HOLD THE FINAL CYLINDER IN RESERVE.
* SLUMP TESTS - ASTM C143.
- ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR AND DO NOT EXCEED SLUMP LIMITATIONS OR TOTAL ALLOWABLE WATER TO CEMENT RATIO. USE COLD WATER FROM THE TRUCK TANK AND RE-MIX TO ACHIEVE CONSISTENCY. TEST REPORTS SHALL INDICATE QUANTITY OF WATER ADDED AT THE JOB SITE. ALL TESTS SHALL BE PREPARED AFTER THE ADDITION OF WATER TO THE MIX.
- MAXIMUM WATER TO CEMENT RATIO WHEN NO BACK UP DATA IS AVAILABLE:
* 5,000 PSI, 28-DAY COMPRESSIVE STRENGTH: W / C RATIO, 0.40 MAXIMUM (NON-AIR-ENTRAINED)
0.34 MAXIMUM (AIR-ENTRAINED)
* 3,000 PSI, 28-DAY COMPRESSIVE STRENGTH: W / C RATIO, 0.54 MAXIMUM (NON-AIR-ENTRAINED)
0.45 MAXIMUM (AIR-ENTRAINED)
- REINFORCING BAR COVER:
* COLUMNS = 2"
* GRADE BEAMS (TOP) = 1-1/2"
* GRADE BEAMS (BTM) = 3"

THE WEILER ENGINEERING CORPORATION

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WIND PARAMETERS

Method of Design: ASCE 7-10
Basic Wind Speed (Vult): 130 MPH
Basic Wind Speed (Vasd): 139 MPH
Nominal Design Wind Speed (Vasd): 139 MPH
Building Risk Category: II / Flood Design Data: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: D
Soil Design Load-Bearing Value: 2,500 psf
Internal Pressure Coefficient: +1.0 and -1.0 (Enclosed)
Component & Cladding Wind Pressure: per Calcs

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GEN. NOTES FOR CAST IN PLACE CONCRETE RESTROOM REPLACEMENT FOR JOHN PENNEKAMP CORAL REEF STATE PARK	Approved By: CTM Scale: AS NOTED Job #: 19045-005 Issued: 05/27/2020 Fl. Job #: 61213	Design: TWP Drawn: TWP Checked: CTM
	WELER ENGINEERING CORPORATION 201 W. MARION AVE., SUITE 1306 PUNTA GORDA, FLORIDA 33960 888-460-1700	
	Revisions:	
	Description:	
Sheet No. S1012		

21. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
22. WHERE BAR LENGTHS ARE GIVEN ON DRAWINGS, LENGTH OF HOOK, IF REQUIRED IS NOT INCLUDED.
23. PROVIDE COMMERCIAL FORM COATING COMPOUNDS THAT WILL NOT BOND, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES. WET FORMS BEFORE PLACING CONCRETE.
24. ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.
25. REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, EXCEPT WHERE REINFORCING IS VISIBLE. CONTACT STRUCTURAL ENGINEER FOR EVALUATION OF EXPOSED REINFORCING.
26. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.
27. PROVIDE CORNER BARS AT ALL BEAM AND WALL FOOTING CORNERS TO MATCH HORIZONTAL BARS.
28. SUBMITTALS:
 * SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION, INCLUDING BACK UP DATA IN ACCORDANCE WITH ACI 301 CHAPTER 4, SECTION 4.2.3.
 * SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZES, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAM.

LUMBER

1. STRUCTURAL WOOD COMPONENTS (BEAMS, JOISTS, RAFTERS, STUDS, ETC.) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE FIBER STRESSES OF SOUTHERN PINE CONFORMING TO THE LATEST EDITION OF NDS, AS FOLLOWS:

SHEAR	$F_v = 115 \text{ PSI}$
BENDING 2x4	$F_b = 1500 \text{ PSI (No.1)}, 1100 \text{ PSI (No.2)}$
BENDING 2x6	$F_b = 1350 \text{ PSI (No.1)}, 1000 \text{ PSI (No.2)}$
BENDING 2x8	$F_b = 1250 \text{ PSI (No.1)}, 925 \text{ PSI (No.2)}$
BENDING 2x10	$F_b = 1050 \text{ PSI (No.1)}, 800 \text{ PSI (No.2)}$
BENDING 2x12	$F_b = 1000 \text{ PSI (No.1)}, 750 \text{ PSI (No.2)}$

MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE.
2. ALL WOOD MEMBERS TO BE PRESSURE TREATED WITH TYPE WATERBORNE PRESERVATIVE IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U-09. STANDARD TREATMENTS FOR THE FOLLOWING APPLICATIONS ARE PROVIDED FOR CONVENIENCE:

WOOD PRESERVATION TREATMENT		
APPLICATION	AWPA USE CATEGORY	TREATMENT (LBS/CU FT.)
IN CONTACT WITH METAL ROOFING	UC2	0.015 PCF P11 OR EQUAL ± (0.015 PCF EL2, 0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.17 PCF SBX)
ABOVE GROUND USE	UC3B	ACQ 0.25
CONCRETE OR GROUND CONTACT, IN-GROUND USE, DECKING, ROOF COMPONENTS	UC4A	0.40 PCF ACQ OR EQUAL ± (0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.15 PCF CA)
STRINGERS 4 BENTS 2x6 - 2x10, ROOF POSTS 6x6-10x10, SPLIT FILE CAP 3x10, STRINGERS 4 BENTS 2x8-3x10	UC4A/B	0.60 PCF ACQ OR 0.31 PCF CA OR 0.23 PCF OF UCA-C OR MCA
UPL AND FILES IN-GROUND OR FRESHWATER FILES	UC4B	0.60 PCF CCA
	UC4C	0.60 PCF CCA OR 0.41 CA
SALT WATER EXPOSURE FILES, CROSS BRACING, AND WATERS	UC5C	CCA 250 OR DUAL TREATMENT WHERE PHOLADIS OR SPHAEROMA TEREBRANS ARE PRESENT: FIRST: CCA 100 SECOND: CR OR CR-S 20.00

3. WALL STUDS SHALL BE CAPPED WITH A DOUBLE PLATE, INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS.
4. ENGINEERED WOOD TRUSS SYSTEMS SHALL BE DESIGNED BY SUPPLIER'S DELEGATED ENGINEER TO CONFIGURATION AND LOAD-CARRYING CAPACITY SHOWN ON DRAWINGS AND SPECIFICATIONS. ALTERNATE TRUSS LAYOUTS ARE ACCEPTABLE ONLY AS A CHANGE ORDER WHICH WILL INCLUDE ENGINEERING CHARGES FOR REDESIGN OF THE STRUCTURE BY THE ENGINEER OF RECORD. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW AND SPECIFY ALL CONNECTOR TYPES UTILIZED WITHIN TRUSSES, AS WELL AS CONNECTORS UTILIZED IN ALL OTHER CONNECTIONS AND ATTACHMENTS BETWEEN TRUSSES OR COMPONENTS SUPPLIED AS PART OF THE ENGINEERED TRUSS SYSTEM. A PLACING PLAN SHALL BE INCLUDED, IDENTIFYING ALL TRUSS SYSTEM COMPONENTS, AS WELL AS ALL PERMANENT BRACING REQUIRED FOR TRUSS DESIGN.
5. ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS THE SPECIALTY ENGINEER. THE FOLLOWING LOAD DURATION FACTORS SHALL BE USED:

DEAD LOAD	0.90
DEAD LOAD + FLOOR LIVE LOAD	1.00
DEAD LOAD + ROOF LIVE LOAD	1.25
DEAD LOAD + WIND LOAD	1.33
6. PLYWOOD FLOOR, WALL, AND ROOF SHEATHING ARE DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE FLORIDA BUILDING CODE. UNLESS SHOWN OTHERWISE SPAN RATED PANELS SHALL BE FASTENED TO NOMINAL 2X SOUTHERN PINE FRAMING SPACED UP TO 24" O/C IN ACCORDANCE WITH THE FOLLOWING:
 PANELS UP TO 5/8" THICK: 10d NAILS AT 6" O/C ALONG SUPPORTED PANEL EDGE, 6" O/C ELSEWHERE, U.N.O.
 PANELS UP TO 3/4" THICK: 12d NAILS AT 6" O/C ALONG SUPPORTED PANEL EDGE, 6" O/C ELSEWHERE, U.N.O.
 7. ROOF SHEATHING SHALL BE NAILED WITH RING-SHANK NAILS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
 8. AT GABLE ENDWALLS, GABLE END TRUSSES, AND ALL COMPONENT AND CLADDING EDGE STRIP LOCATIONS, SPACE NAILS AT 4" O/C AT ALL EDGES AND INTERMEDIATE SUPPORTS.
 9. ROOF AND FLOOR SHEATHING SHALL BE INSTALLED LONG DIMENSION PERPENDICULAR TO FRAMING AND END JOINTS SHALL BE STAGGERED.
 10. NAILING, JOIST BLOCKING, AND RAFTER BLOCKING SHALL MEET THE MINIMUM REQUIREMENTS OF CHAPTER 23 OF THE FLORIDA BUILDING CODE UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED ON THE PLANS.
 11. ALL CONNECTORS SHALL BE GALVANIZED. CONNECTOR MODEL NUMBERS SHOWN ARE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE CO, 4120 DUBLIN BLVD. #400, DUBLIN, CA 94568. SUBSTITUTIONS ARE ACCEPTABLE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. UNLESS SHOWN OTHERWISE, INSTALL SIZE AND NUMBER OF FASTENERS SHOWN IN THE LATEST SIMPSON CATALOG. ALL CONNECTORS TO PRESSURE TREATED LUMBER SHALL BE TRIPLE GALVANIZED (Z MAX) OR STAINLESS STEEL.

THE WEILER ENGINEERING CORPORATION

These plans are in Compliance with Florida Building Code 2017 for wind parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-10
 Basic Wind Speed (Vult): 180 MPH
 Nominal Design Wind Speed (Vasd): 139 MPH
 Building Risk Category: II / Flood Design Data: ZONE "/E-12"
 Wind Importance Factor: 1.0 / Wind Exposure: D
 Soil Design Load-Bearing Value: 2,500 psf
 Internal Pressure Coefficient +.18 and -.18 (Enclosed)
 Component 4 Cladding Wind Pressure: per Calcs

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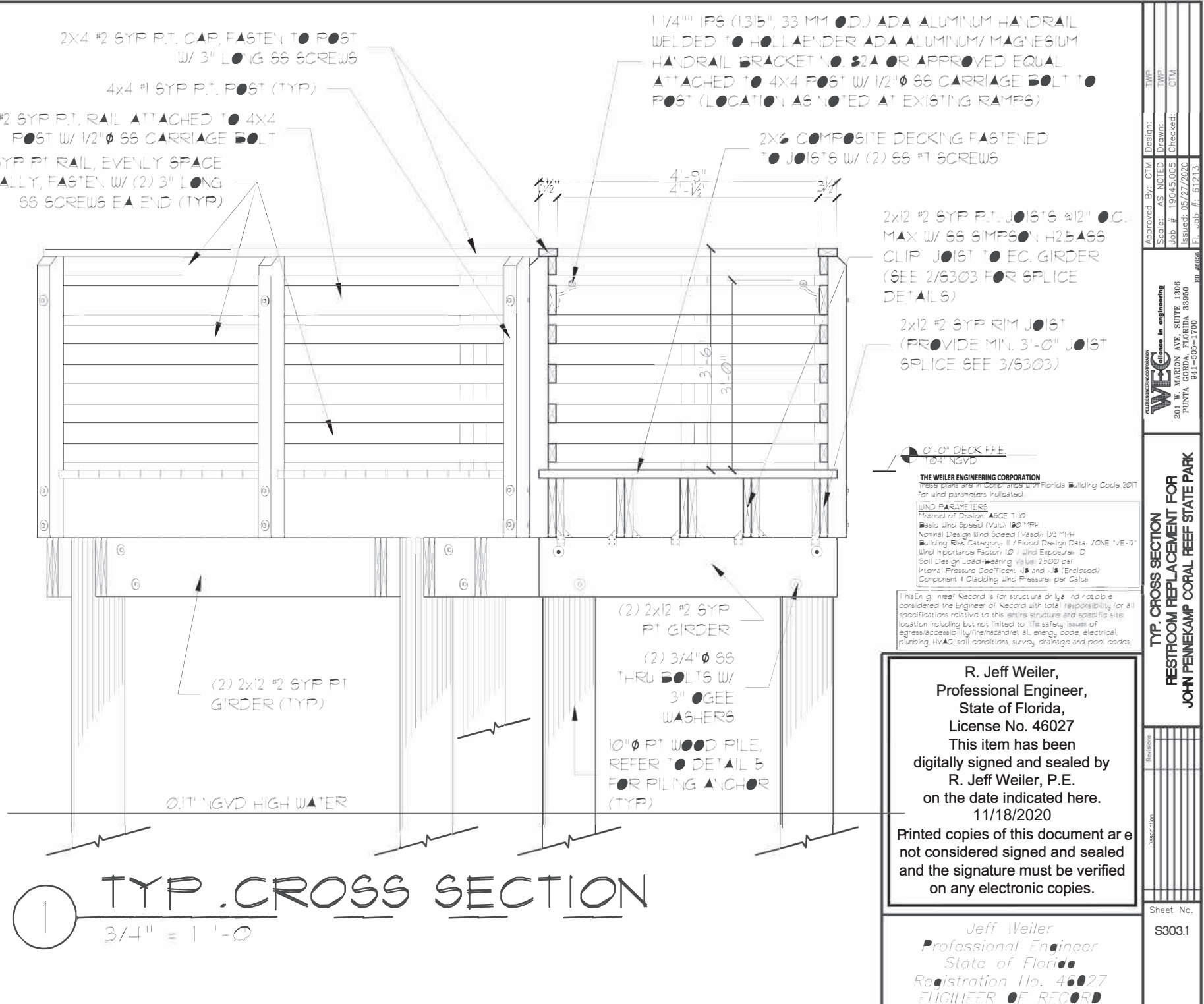


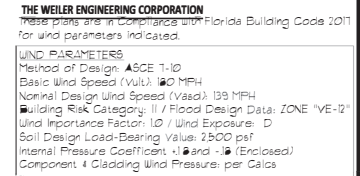
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 201 W. MARION AVE., SUITE 1306
 PUNTA GORDA, FLORIDA 33960
 941-805-1700 FAX 941-805-1700

GENERAL NOTES FOR LUMBER
 RESTROOM REPLACEMENT FOR
 JOHN PENNEKAMP CORAL REEF STATE PARK

Revisions	Description

Sheet No. S101.3





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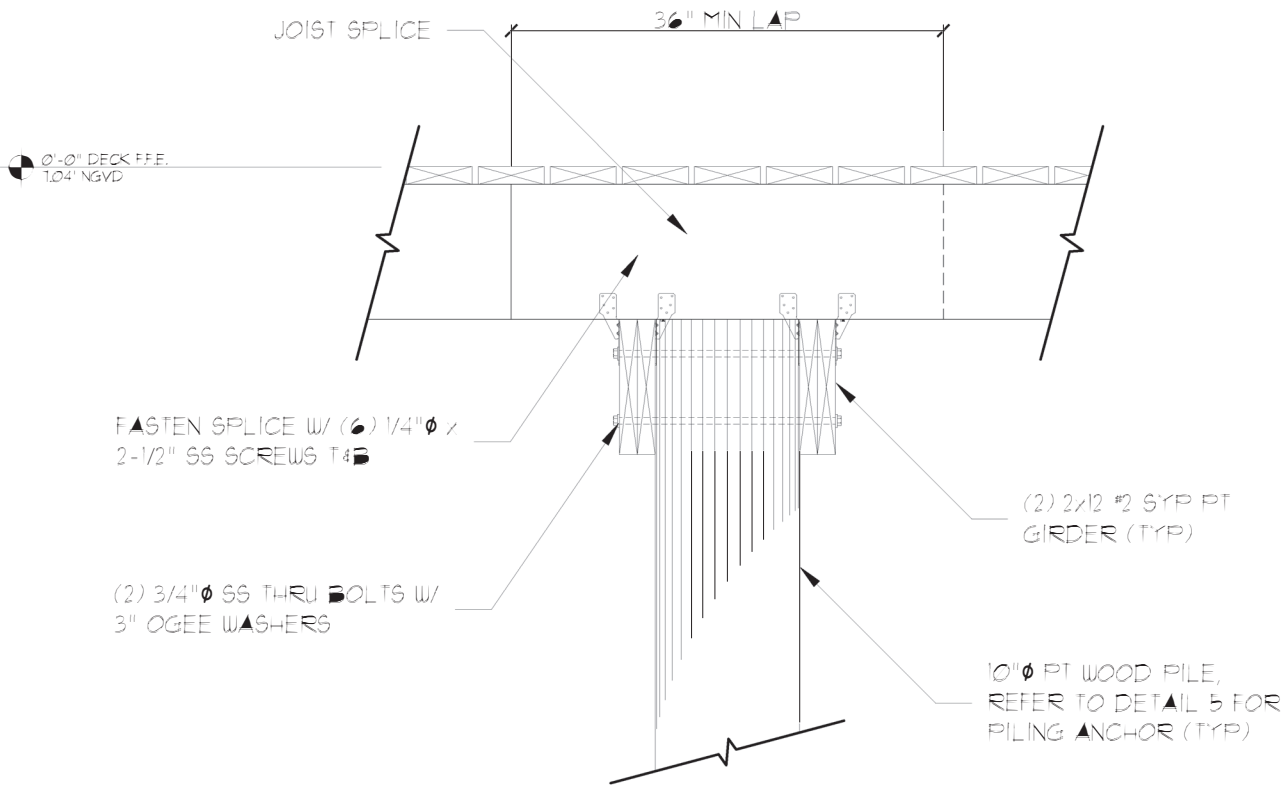
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**INTERIOR JOIST DETAIL
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK**

[illegible]

Sheet No.
S303.2

2 INTERIOR JOIST DETAIL
3/4" = 1'-0"



3 EXTERIOR JOIST DETAIL

THE WEILER ENGINEERING CORPORATION
These plans are in compliance with Florida Building Code 2011
for wind parameters indicated.

WIND PARAMETERS
Method of Design: ASCE 7-10
Basic Wind Speed (Vult): 130 MPH
Nominal Design Wind Speed (Vasb): 139 MPH
Building Risk Category: I / Flood Design Category: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: D
Soil Design Load-Bearing Value: 2500 psf
Internal Pressure Coefficient: +.18 and -.18 (Enclosed)
Component 4 Cladding Wind Pressure: per Calcs

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Fl. Job #: 61213		

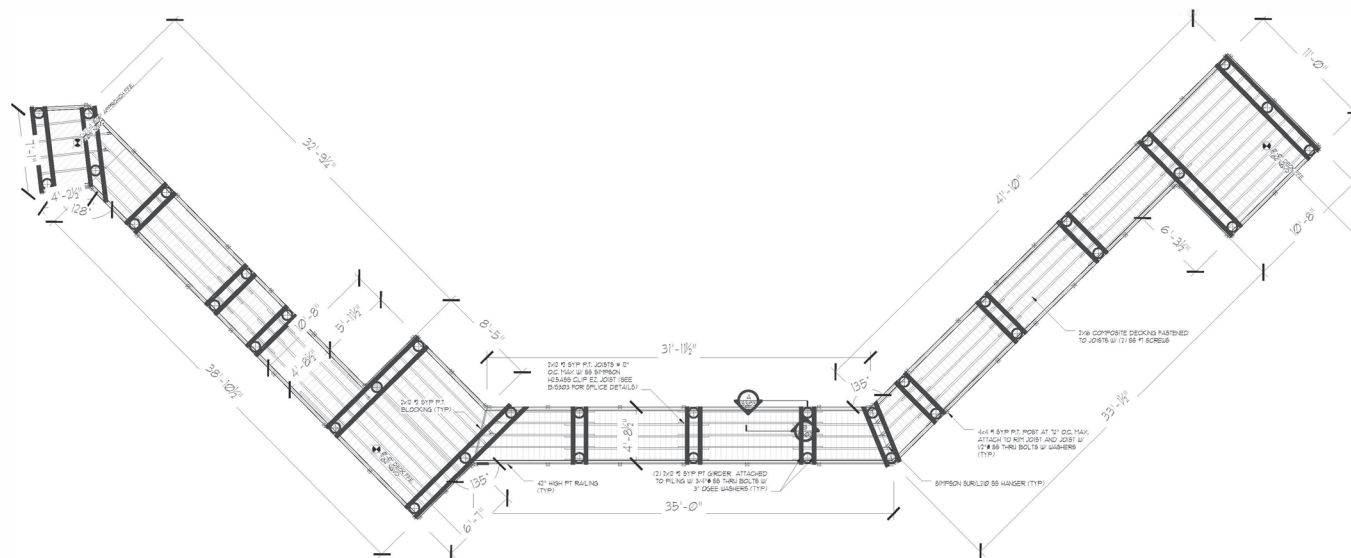
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PUNTA GORDA, FLORIDA 33950
941-505-1700

EXTERIOR JOIST DETAIL
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

[illegible]

Sheet No.
S303.3

- BOARDWALK (EXISTING AND PROPOSED): 1163 SF
- CONSTRUCTION SEAWARD OF MHWL: 111 SF
- PROPOSED BOARDWALK: 108 SF



BOARDWALK PLAN



WOOD PRESERVATION TREATMENT		
APPLICATION	AWPA USE CATEGORY	TREATMENT (LBS/CU FT.)
IN CONTACT WITH METAL ROOFING	UC2	0.018 PCF F11 OR EQUAL ± (0.018 PCF EL2, 0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.17 PCF SBX)
ABOVE GROUND USE	UC3B	ACQ 0.25
CONCRETE OR GROUND CONTACT, IN-GROUND USE, DECKING, ROOF COMPONENTS	UC4A	0.40 PCF ACQ OR EQUAL ± (0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.15 PCF CA)
STRINGERS 4 BENTS 2X6 - 2X10, ROOF POSTS 6X6-10X10;	UC4A/B	0.60 PCF ACQ OR 0.31 PCF CA OR 0.23 PCF OF UCA-C OR MCA
SPLIT FILE CAP 3X10	UC4B	0.60 PCF CCA
STRINGERS 4 BENTS 2X8-3X10		
UPLAND FILES IN-GROUND OR FRESHWATER FILES	UC4C	0.20 PCF CCA OR 0.41 CA
SALT WATER EXPOSURE FILES, CROSS BRACING, AND WALKERS	UC5C	CCA 2.50 OR DUAL TREATMENT WHERE PHOLADS OR SPHAEROMATA TEREBRANS ARE PRESENT: FIRST: CCA 1.00 SECOND: CR OR CR-S 2.00

2. ALL WOOD MEMBERS TO BE PRESURE TREATED WITH TYPE WATERBORNE PRESERVATIVE IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1-09. STANDARD TREATMENTS FOR THE FOLLOWING APPLICATIONS ARE PROVIDED FOR CONVENIENCE:

These plans are in compliance with Florida Building Code 2017
for wind parameters indicated.

Method of Design: ASCE 7-10
Basic Wind Speed (Vult): 100 MPH
Nominal Design Wind Speed (Vasht): 139 MPH
Building Risk Category: II / Flood Design Data: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: D
Soil Design Load-Bearing Value: 2,500 psf
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Component & Cladding Wind Pressure: per Calcs

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on the date indicated here.
11/18/2020

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Jeff Weiler
Professional Engineer
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Registration No. 46027
ENGINEER OF RECORD

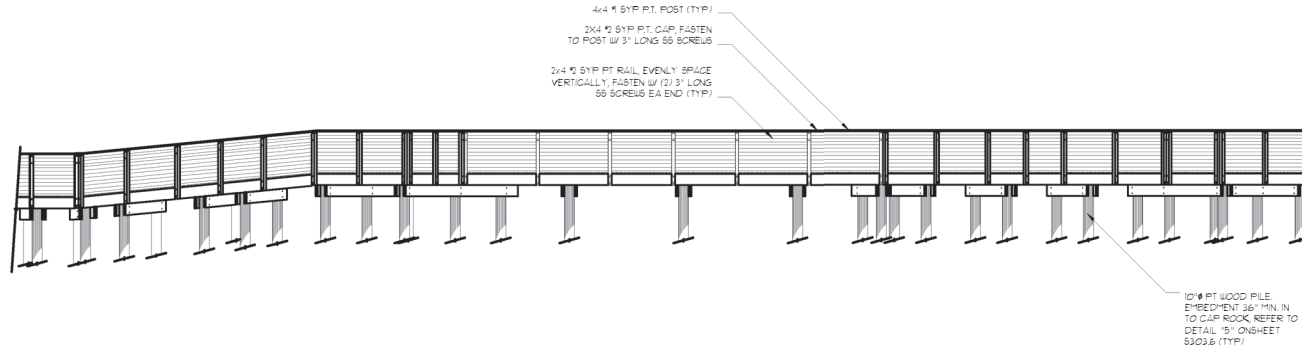
**BOARDWALK PLAN
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK**

Revisions	Description

Sheet No.
S303.4

Approved By: CTM	Design:	TWP
Scale: AS NOTED	Drawn:	TWP
Job # 19045.005	Checked:	CTM
Issued: 05/27/2020		
Job # 19045.005		

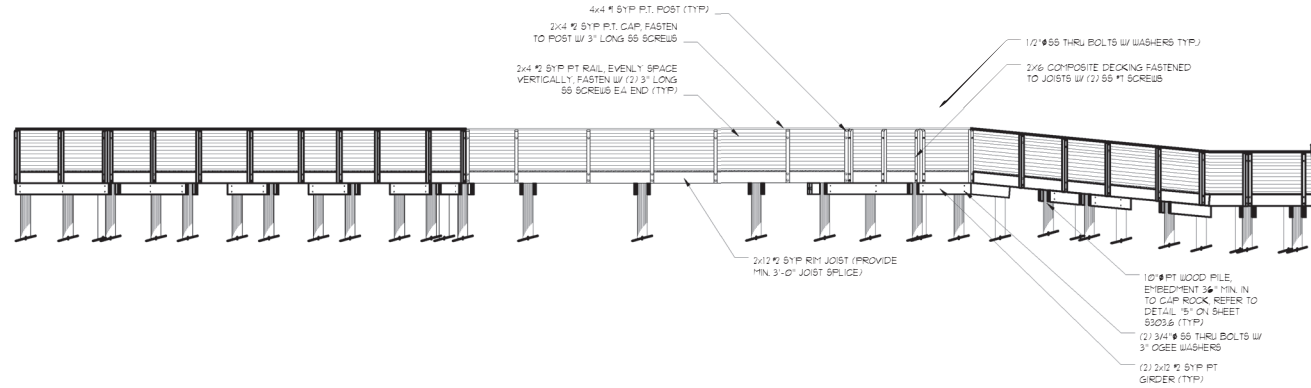
- 2'-6" TO DECK GUARD RAIL
10/4" NGVD
- 1'-6" TO APPROACH GUARD RAIL
8/34" NGVD
- 6'-0" DECK FFE
104" NGVD
- 1'-0" TO APPROACH FFE
104" NGVD
- 2'-3'-0" TO PILE BENT
8/27" NGVD
- 1'-6" TO PILE BENT
8/27" NGVD
- 1'-0" TO PILE BENT
8/27" NGVD
- 1'-0" TO PILE BENT
8/27" NGVD



SOUTH ELEVATION

1/16" = 1'-0"

- 2'-6" TO DECK GUARD RAIL
10/4" NGVD
- 6'-0" DECK FFE
104" NGVD
- 1'-0" TO APPROACH FFE
104" NGVD
- 2'-3'-0" TO PILE BENT
8/27" NGVD
- 1'-6" TO PILE BENT
8/27" NGVD
- 1'-0" TO PILE BENT
8/27" NGVD
- 1'-0" TO PILE BENT
8/27" NGVD



NORTH ELEVATION

1/16" = 1'-0"

THE WEILER ENGINEERING CORPORATION

These plans are in compliance with Florida Building Code 2017 for wind parameters indicated.

WIND PARAMETERS

Method of Design: ASCE 7-10
Basic Wind Speed (Vult): 100 MPH
Nominal Design Wind Speed (Vasch): 135 MPH
Building Risk Category: II / Flood Design Data: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: "D"
Soil Design Load-Bearing Value: 2500 psf
Internal Pressure Coefficient: +0.8 and -0.8 (Enclosed)
Component 4 Cladding Wind Pressure: per Calcs

This Engineer of Record is for structural only and not to be considered the Engineer of Record with total responsibility for all specifications relative to this entire structure and specific site location including but not limited to life safety issues of egress/accessibility/fire/hazard/et al, energy code, electrical, plumbing, HVAC, soil conditions, survey, drainage and pool codes.

R. Jeff Weiler,
Professional Engineer,
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EXTERIOR ELEVATIONS
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

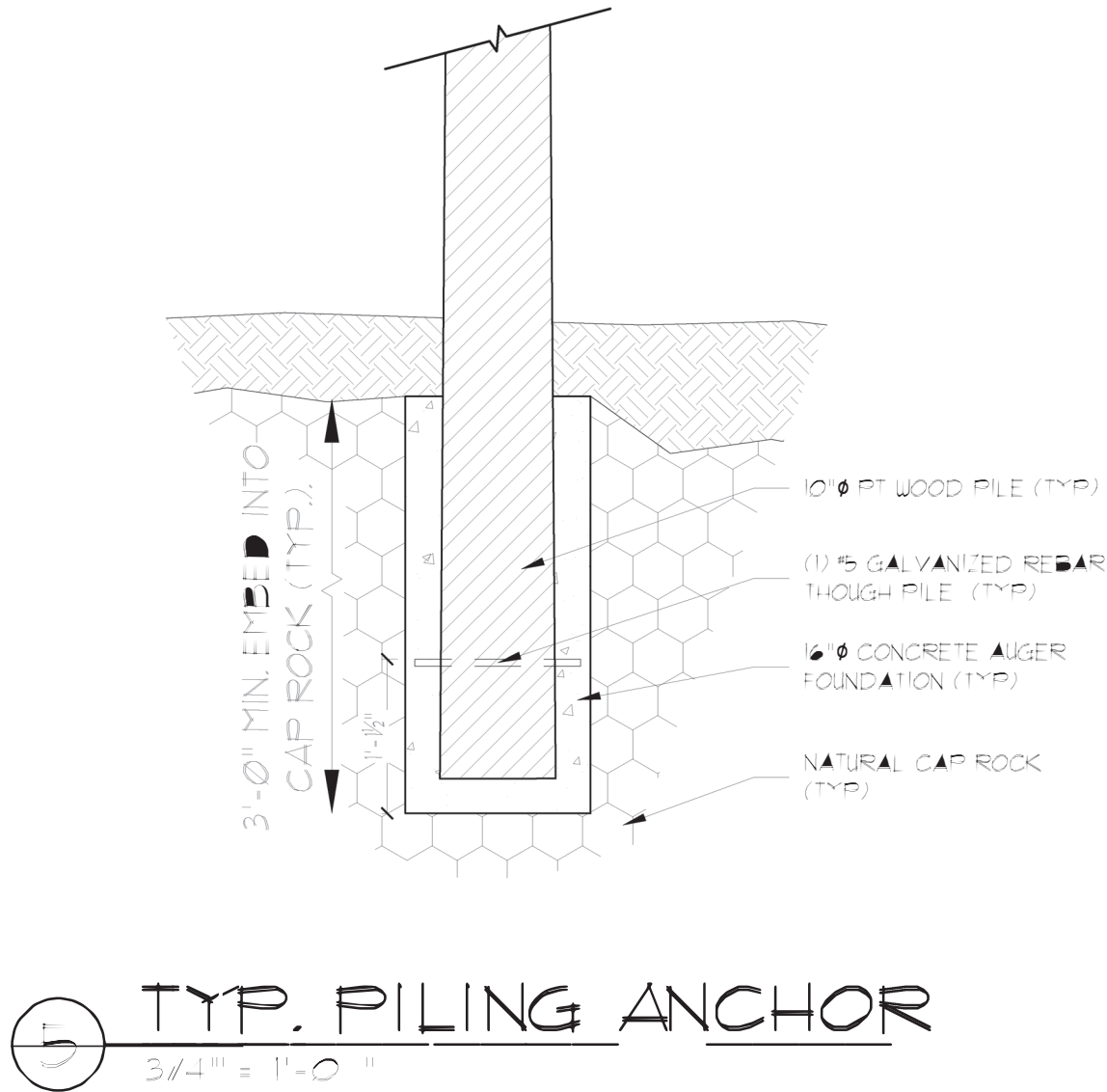
Revisions	Description

Sheet No.
S303.5

Approved By: CTM	Design: TWP
Scale: AS NOTED	Drawn: TWP
Job #: 19045.005	Checked: CTM
Issued: 05/27/2020	
PI Job #: 61713	

WEILER ENGINEERING CORPORATION
201 W. MARION AVE., SUITE 1306
PUNTA GORDA, FLORIDA 33960
941-665-1700
PI #4604

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THE WEILER ENGINEERING CORPORATION
These plans are in compliance with Florida Building Code 2017 for wind parameters indicated.

WIND PARAMETERS
Method of Design: ASCE 7-10
Basic Wind Speed (Vult): 130 MPH
Nominal Design Wind Speed (Vdes): 139 MPH
Building Risk Category: II / Flood Design Data: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: D
Soil Design Load-Bearing Value: 2500 psf
Internal Pressure Coefficient: +1.0 and -1.0 (Enclosed)
Component 4 Cladding Wind Pressure: per Calcs

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WEILER ENGINEERING CORPORATION
WEC
201 W. MARION AVE., SUITE 1306
PUNTA GORDA, FLORIDA 33950
941-605-1100
PR #4064

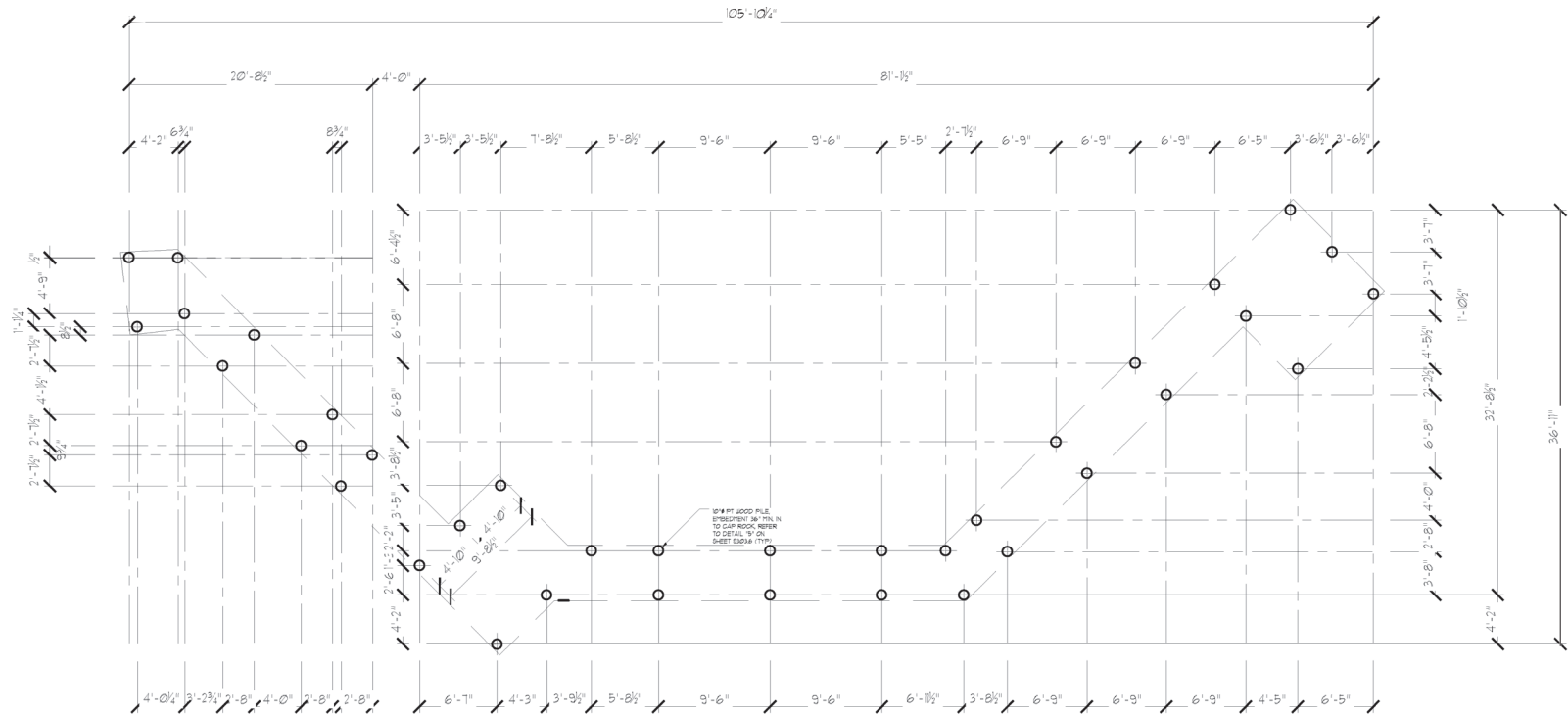
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RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK**

Revisions	Description

Sheet No.
S3036

Approved By: CTM	Design: TWP
Scale: AS NOTED	Drawn: TWP
Job #: 19045.005	Checked: CTM
Issue: 05/21/2020	
FL Job #: 61213	

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PILING PLAN

1/8" = 1' = 0"



WOOD PRESERVATION TREATMENT		
APPLICATION	AWPA USE CATEGORY	TREATMENT (LBS/CU FT.)
IN CONTACT WITH METAL ROOFING	UC2	0.015 PCF FTI OR EQUAL ± (0.015 PCF EL2, 0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.11 PCF SDC)
ABOVE GROUND USE	UC3B	ACQ 0.25
CONCRETE OR GROUND CONTACT, IN-GROUND USE, DECKING, ROOF COMPONENTS	UC4A	0.40 PCF ACQ OR EQUAL ± (0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.15 PCF CA)
STRINGERS 4 BENTS 2X6 - 2X10, ROOF POSTS 6X6-10X10, SPLIT PILE CAP 3X10, STRINGERS 4 BENTS 2X6-3X10	UC4A/B	0.60 PCF ACQ OR 0.31 PCF CA OR 0.23 PCF OF UCA-C OR MCA
UPLAND PILES IN-GROUND OR FRESHWATER PILES	UC4B	0.60 PCF CCA
	UC4C	0.60 PCF CCA OR 0.41 CA
SALTWATER EXPOSURE PILES, CROSS BRACING, AND WALKERS	UC5C	CCA 2.50 OR DUAL TREATMENT WHERE PHOLADS OR SPHEROMAT TEREBRANS ARE PRESENT: FIRST: CCA 1.00 SECOND: CR OR CR-S 20.00

NOTE:

1. ALL METAL, FASTENERS, STRAPS, BRACKETS, OR OTHERWISE TO BE 316 STAINLESS STEEL.
2. ALL WOOD MEMBERS TO BE PRESSURE TREATED WITH TYPE WATERBORNE PRESERVATIVE IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1-09. STANDARD TREATMENTS FOR THE FOLLOWING APPLICATIONS ARE PROVIDED FOR CONVENIENCE:

THE WEILER ENGINEERING CORPORATION
These plans are in compliance with Florida Building Code 2017 for wind parameters indicated.

WIND PARAMETERS
Method of Design: ASCE 1-10
Basic Wind Speed (Vult): 100 MPH
Nominal Design Wind Speed (Vasd): 138 MPH
Building Risk Category: II / Flood Design Data: ZONE "VE-12"
Wind Importance Factor: 1.0 / Wind Exposure: D
Soil Design Load-Bearing Value: 2500 psf
Internal Pressure Coefficient: +0.6 and -0.6 (Enclosed)
Component & Cladding Wind Pressure: per Calcs

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ENGINEER OF RECORD

Approved By: CTM Design: TWP
Scale: AS NOTED Drawn: TWP
Job #: 19045.005 Checked: CTM
Issue: 05/21/2020
Pl. Job #: 61213

WEILER ENGINEERING CORPORATION
201 W. MARION AVE. SUITE 1306
PUNTA GORDA, FLORIDA 33960
941-605-1100
PR #0064

PILING PLAN
RESTROOM REPLACEMENT FOR
JOHN PENNEKAMP CORAL REEF STATE PARK

Revisions
Description
Sheet No.
S303.7

Project Design Criteria (PDCs) Specific to Activity 2 for Pile-Supported Structures and Anchored Buoys

A2.1. Activities covered by this Opinion include the installation, repair, replacement, and removal of structures as described below:

- A2.1.1. The pile-supported and anchored structures included in this Opinion are: docks and piers, boatlifts, mooring piles and dolphin piles associated with docks/piers; ATONs and PATONs; floating docks; pile-supported chickees (i.e., small, back-country, over-water, pile-supported, primitive camping shelters); boardwalks (as long as they are designed and clearly marked to prohibit fishing and vessel mooring); mooring fields and buoys; and other minor pile-supported structures. This does not include structures that support large commercial vessels including ferries, tankers, and cargo ships such as ferry terminals and large ports.
- A2.1.2. Pile-supported docks/piers for a single-family residential lot are limited to 4 slips for motorized vessels. Slips for non-motorized vessels (e.g., kayak, canoe, and paddleboard) and associated launching areas do not count toward the total slip number.
- A2.1.3. Pile-supported structures for marinas, multi-family facilities (e.g., condo complexes, trailer parks, subdivisions when the homeowners association owns and controls the in-water structures). Docks and piers for multi-family residential properties (e.g., condos, trailer parks, apartment complexes), and marinas are limited to a maximum of 50 total slips (i.e., combination of wet and dry slips for existing plus proposed slips).
- A2.1.4. Anchored buoys and temporary pile-supported structures associated with marine events. Upon completion of the event, these structures must be removed and, to the maximum extent practical, the site must be restored to pre-construction elevations. Water depths in the area of marine events must be deep enough to support at least 5 ft of water depth under the keel of a vessel and between the keel of a vessel and ESA-listed coral colonies when transiting to the mooring areas. There is no limit on the number of vessel slips allowed for temporary structures associated marine events such as boat shows.
- A2.1.5. Mooring fields are limited to a maximum of 50 motorized vessels (there is no limit on the number of non-motorized vessels).
- A2.1.6. All pile-supported structures constructed must comply with PDC 2.17 for *Docks or Other Minor Structures Constructed in Florida Under this Opinion* (see below).

The following PDCs apply to all the activities described in PDC A2.1 above:

A2.2. For commercial, multi-family, or public facilities, and marine events, signs must be posted in a visible location(s), alerting users of listed species in the area susceptible to vessel strikes and hook-and-line captures. The most current version of the signs that must be downloaded and sign installation guidance are available at:

(http://sero.nmfs.noaa.gov/protected_resources/section_7/protected_species_educational_signs/index.html). The signs required to be posted by area are stated below:

- A2.2.1. All projects in Florida shall use the Save Sea Turtle, Sawfish, and Dolphin sign. These signs shall include contact information to the sea turtle and marine

- mammal stranding networks and smalltooth sawfish encounter database.
- A2.2.2. Projects within the North Atlantic right whale educational sign zone (as defined in Section 2.1.1.4) shall post the Help Protect North Atlantic Right Whales sign.
- A2.2.3. On the east coast of Florida, projects located within the St. John's River and those occurring north of the St. Johns River to the Florida-Georgia line shall post the Report Sturgeon sign. On the west coast of Florida, projects occurring from the Cedar Key, Florida north to the Florida-Alabama line.
- A2.2.4. We are still developing the signs to be used in the U.S. Caribbean. Once developed, those signs will be included at the website above.

A2.3. For commercial, multi-family, or public facilities, monofilament recycling bins must be provided at the docking facility to reduce the risk of turtle or sawfish entanglement in, or ingestion of, marine debris. Monofilament recycling bins must:

- A2.3.1. Be constructed and labeled according to the instructions provided at <http://mrrp.myfwc.com>.
- A2.3.2. Be maintained in working order and emptied frequently (according to <http://mrrp.myfwc.com> standards) so that they do not overflow.

A2.4. For any dock project (new construction, repair, or replacement) at a private residence located within 11 nautical miles of North Atlantic right whale critical habitat (as measured in a radius from the center of the nearest inlet to open ocean and described in Section 2.1.1.4), the property owner will be provided a handout with their USACE permit describing the presence of North Atlantic right whales in the area and the Federal regulations governing the approach to North Atlantic right whales (Appendix C).

A2.5. ATONs and PATONs must be approved by and installed in accordance with the requirements of the USCG (see 33 CFR, chapter I, subchapter C, part 66 and RHA Section 10 and any other pertinent requirements).

A2.6. Chickees must be less than 500 ft² and support no more than 2 slips.

A2.7. No activities associated with municipal or commercial fishing piers are covered under this Opinion.

A2.8. Docks installed within visible distance of ocean beaches are required to comply with turtle-friendly lighting, if lighting is necessary to the project. Turtle-friendly lighting is explained and examples are provided on the Florida Fish and Wildlife Conservation Commission website:
<http://myfwc.com/wildlifehabitats/managed/sea-turtles/lighting/>

A2.9. Project construction will take place from uplands or from floating equipment (e.g., barge); prop or wheel-washing is prohibited.

Additional PDCs for Activity 2 applicable in Critical Habitat

- A2.10.** *Acropora* critical habitat and the U.S. Caribbean: This Opinion does not cover new and expanded pile-supported structures in *Acropora* critical habitat where the essential features are present. The distance from ATONs to ESA-listed corals and *Acropora* critical habitat shall ensure there are no impacts to the corals or the essential feature of *Acropora* critical habitat from the movement of buoys and tackle. The appropriate distance shall be based on the size of the anchor chain or other tackle to be installed to secure the buoy to its anchor, particularly when the design of the ATON does not prohibit contact of tackle with the marine bottom. In all cases, buoy tackle will include flotation to ensure there is no contact between the anchor chain or line and the marine bottom.
- A2.11.** Gulf sturgeon critical habitat: Additional noise restrictions are required for pile and sheet pile installation in the Gulf sturgeon critical habitat migratory restriction zones defined in Section 2.1.1.2. The noise restrictions are described in that section.
- A2.12.** Smalltooth sawfish critical habitat: This Opinion does not cover activities occurring in areas identified as smalltooth sawfish limited exclusion zones defined in Section 2.1.1.1.
- A2.13.** North Atlantic right whale critical habitat: This Opinion does not cover installation of anchored ATONs and permanent buoys in North Atlantic right whale critical habitat; temporary buoys for marine events are allowed in North Atlantic right whale critical habitat.
- A2.14.** Johnson's seagrass critical habitat: This Opinion does not cover new marinas or multi-family facilities in Johnson's seagrass critical habitat. Repair, replacement, and reconfiguration of existing marinas or multi-family facilities may be covered if it (1) occurs within same overall footprint (out to the perimeter of the facility, including the outer limits of the structure and permitted mooring locations), (2) does not increase the total aerial extent (i.e., area of coverage from the dock structures) of the existing facility, and (3) does not affect Johnson's seagrass. Mooring fields are allowed in Johnson's seagrass critical habitat and within the range of Johnson's seagrass so long as they occur in waters deeper than -13 ft (-4 m).
- A2.15.** NWA DPS of loggerhead sea turtle critical habitat: ATONs (pile-supported and anchored buoys) are allowed in nearshore reproductive habitat of the NWA DPS of loggerhead sea turtles under this Opinion. No other pile-supported structures are allowed in nearshore reproductive habitat under this Opinion.
- A2.16.** U.S. Caribbean sea turtle critical habitat (hawksbill, leatherback, and the NA DPS of green sea turtle critical habitat): ATONs (pile-supported and anchored buoys) are allowed near sea turtle nesting beaches under this Opinion. No other pile-supported structures are allowed near sea turtle nesting beaches under this Opinion.

Project Design Criteria (PDCs) for Docks or Other Minor Structures (PDC A2.17)

These PDCs address the anticipated dock construction scenarios expected within Florida and the U.S. Caribbean and provide NMFS PRD's construction guidelines for projects occurring (1) within Johnson's seagrass critical habitat; (2) within the range of Johnson's seagrass¹⁸, but outside of Johnson's seagrass critical habitat; and (3) outside of both the range and critical habitat for Johnson's seagrass. These scenarios consider whether a seagrass survey was conducted for projects within the range of Johnson's seagrass or located in Johnson's seagrass critical habitat. Surveys must be completed no earlier than 1 year before submitting the application to the action agency for project authorization. There is no seasonal restriction for Johnson's seagrass surveys; however, Johnson's seagrass is found within the range of other seagrass species that exhibit a seasonal pattern of growth and distribution. For comparison, NMFS Habitat Conservation Division's recommended sampling window for non-listed species is June 1 to September 30.

Dock Construction Scenarios

	Within Johnson's seagrass critical habitat	Within the Range of Johnson's seagrass (outside of critical habitat)	In the U.S. Caribbean and Florida (outside of the range and critical habitat of Johnson's seagrass)
Dock replacement in the exact footprint (i.e., same location/configuration/ size) as the previous dock with...			
No native seagrass under dock	A	A	A
Johnson's seagrass under dock	B	B	N/A
Native seagrass, other than Johnson's seagrass, under the dock	B	A	A
No current seagrass survey	B	B	A
New docks or dock expansions with...			
No native seagrasses within property limits	B	A	A
Johnson's seagrass within property limits	B	B	N/A
Native seagrass, other than Johnson's seagrass, within property limits	B	A	A
No current seagrass survey	B	B	A

A= No additional PDCs; B= Dock must meet PDCs below; N/A = not applicable; Johnson's seagrass could not occur under the dock because the dock project is outside the range of Johnson's seagrass

Dock PDCs for Scenario B in the table above:

1. To avoid and minimize impacts to Johnson's seagrass and native, non-listed seagrasses to the maximum extent practicable:
 - The dock must be positioned to avoid and minimize effects to Johnson's seagrass
 - Over any area that contains Johnson's seagrass or native, non-listed seagrasses, the dock shall be oriented in a north-south orientation to the maximum extent that is practicable to allow maximum sunlight under the structure.
 - If practicable, terminal platforms shall be placed in deep water, waterward of Johnson's seagrass beds or native, non-listed seagrasses beds or in an area devoid of Johnson's seagrass or native, non-listed seagrasses.
 - Piles must be spaced a minimum of 10 ft apart in any area that contains Johnson's seagrass to minimize direct impacts.
 - Piles shall be installed in a manner that will not result in the formation of sedimentary deposits (e.g., donuts or halos) around the newly installed pilings.
 - No covered boat lifts are allowed over any Johnson's seagrass.
2. Decking options: Deck surfaces (parallel with the water) that are located waterward of the MHWL must be constructed of grated materials or plank construction or a combination of the both methods (e.g. plank decking on the walkway and grated decking on the terminal platform). These decking options are described below:

Grated decking:

- Height requirement: The surface of the structure, including the dock walkway (the over-water narrow portion connecting the terminal platform to the shore and any over-water ramp required for access) and the dock, must be a minimum of 3 ft above MHW when constructed with grated decking.
- Size limitations: The dock walkway is limited to a width of 4 ft. The terminal platform is limited to a total area of 160 ft². Marginal docks are limited to a width of 5 ft. The 5 ft width restriction is measured from wet side of the seawall. For example, if a seawall cap is 3 feet overwater then the dock would be limited to 2 feet.
- Material description: Decking materials shaped in the form of grids, grates, lattices, etc., to allow the passage of light through the open spaces. These materials must provide a minimum of 43% open space.

Plank decking:

- Height requirement: The surface of the structure, including the dock walkway (the over-water narrow portion connecting the terminal platform to the shore and any over-water ramp required for access) and the dock, must be a minimum of 5 ft above MHW when constructed of plank decking.
- Size limitations: The dock walkway is limited to a width of 4 ft. The terminal platform is limited to a total area of 120 ft². Marginal docks are limited to a width of 5 ft.
- Material description: Deck boards may be constructed of any material. Deck boards must be installed to provide a minimum of a 0.5-in gap between individual deck boards.

Project Design Criteria (PDCs) Applicable to All Projects

NOTE - You are required to comply with the following PDCs, which serve to address requirements pursuant to Section 7, Endangered Species Act (ESA) for those listed species and designated critical habitat under purview of the National Marine Fisheries Service Protected, Resources Division. These PDCs are taken from the Programmatic Biological Opinion (PBO) referred to as JaxBO. These criteria serve to address ESA requirements only, and additional conditions may be required to address other Federal laws, including the Magnuson-Stevens Fishery Conservation and Management Reauthorization Act. Authorization under this permit is conditional upon your compliance with all applicable PDCs, which are made part of this permit. You are reminded that you must complete the attached self-certification statement of compliance following completion of the authorized work. Your statement of compliance does not obviate the need to satisfy all PDCs, including those requirements (e.g., such as structural dimensions and educational signs) that are observable post-construction, and those requirements (e.g., construction methods or procedures to be followed) that are not observable post-construction. Please note that failure to comply with the applicable PDCs of this PBO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute noncompliance with this permit. The NMFS is the appropriate authority to determine compliance with the terms and conditions of this PBO.

AP.1. The applicant must agree to adhere to PDCs for *In-Water Activities* (provided below).

AP.2. All projects involving the installation of piles or sheet piles shall follow the PDCs for *In-Water Noise from Pile and Sheet Pile Installation* (Section 2.2). This Opinion does not cover projects that use seismic surveys, low frequency sonar, explosions, and seismic air guns.

AP.3. All projects proposed in or near areas with mangroves, seagrasses, corals, or hard bottom habitat must refer to PDCs for *Mangroves, Seagrasses, Corals, and Hard Bottom for All Projects* (provided below) to determine whether the project is covered under the Opinion and, if it is covered, to ensure it is sited, designated, and implemented following all of the PDCs in that section.

AP.4. For every project, the USACE must determine if the project is located within:

- a) Smalltooth sawfish critical habitat limited exclusion zones (Section 2.1.1.1)
- b) Gulf sturgeon critical habitat migratory restriction zones (Section 2.1.1.2)
- c) Atlantic sturgeon critical habitat exclusion zone (St. Marys River) (Section 2.1.1.3)
- d) North Atlantic right whale educational sign zones (Section 2.1.1.4)
- e) U.S. Caribbean sea turtle critical habitat restriction zones (Section 2.1.1.5)
- f) Bryde's whale exclusion zone (Section 2.1.1.6)

Where the activity is excluded from the Opinion within a particular zone, the application must be processed under a separate consultation. Where additional restrictions apply to activities within that zone, the USACE or other authorizing entity must ensure that the project meets the requirements for that zone.

AP.5. This Opinion only covers new construction (i.e., installation, repair, replacement) and does not apply to after-the-fact consultations or enforcement actions handled by the Corps.

AP.6. All activities must be completed during daylight hours.

Project Design Criteria (PDCs) for In-Water Activities

AP.7. Education and Observation: The permittee must ensure that all personnel associated with the project are instructed about the potential presence of species protected under the ESA and the Marine Mammal Protection Act (MMPA). 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. To determine which species may be found in the project area, please review the relevant Protected Species List at:

http://sero.nmfs.noaa.gov/protected_resources/section_7/threatened_endangered/index.html

AP.8. Reporting Interactions with Protected Species:

- a) Any collision(s) with and/or injury to any sea turtle, sawfish, whale, or sturgeon 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.nmfs@noaa.gov and SAJ-RD-Enforcement@usace.army.mil.
- b) Smalltooth sawfish: Report sightings to 1-844-SAWFISH or email: Sawfish@MyFWC.com
- c) Sturgeon: Report dead sturgeon to 1-844-STURG 91 (1-844-788-7491) or email: nmfs.ser.sturgeonnetwork@noaa.gov
- d) Sea turtles and marine mammals: Report stranded, injured, or dead animals to 1-877-WHALE HELP (1-877-942-5343).
- e) North Atlantic right whale: Report injured, dead, or entangled right whales to the USCG via VHF Channel 16.

AP.9. Vessel Traffic and Construction Equipment: All vessel operators must watch for and avoid collision with species protected under the ESA and MMPA. Vessel operators must avoid potential interactions with protected species and operate in accordance with the following protective measures:

- a) *Construction Equipment*:
 - i) All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while operating in water depths where the draft of the vessel provides less than a 4-foot (ft) clearance from the bottom, and in all depths after a protected species has been observed in and has departed the area.
 - ii) All vessels will follow marked channels and/or routes using the maximum water depth whenever possible.
 - iii) 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.
 - iv) 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.

- b) *All Vessels:*
- i) Sea turtles: Maintain a minimum distance of 150 ft.
 - ii) North Atlantic right whale: Maintain a minimum 1,500-ft distance (500 yards).
 - iii) Vessels 65 ft in length or longer must comply with the Right Whale Ship Strike Reduction Rule (50 CFR 224.105) which includes reducing speeds to 10 knots or less in Seasonal Management Areas (<http://www.fisheries.noaa.gov/pr/shipstrike/>).
 - iv) Mariners shall check various communication media for general information regarding avoiding ship strikes and specific information regarding right whale sightings in the area. These include NOAA weather radio, USCG NAVTEX broadcasts, and Notices to Mariners.
 - v) Marine mammals (i.e., dolphins, whales [other than North Atlantic right whales], and porpoises): Maintain a minimum distance of 300 ft.
 - vi) When these animals are sighted while the vessel is underway (e.g., bow-riding), attempt to remain parallel to the animal's course. Avoid excessive speed or abrupt changes in direction until they have left the area.
 - vii) Reduce speed to 10 knots or less when mother/calf pairs or groups of marine mammals are observed, when safety permits.

AP.10. Turbidity Control Measures during Construction: Turbidity must be monitored and controlled. Prior to initiating any of the work covered under this Opinion, the Permittee shall install turbidity curtains as described below. In some instances, the use of turbidity curtains may be waived by the USACE project manager if the project is deemed too minimal to generate turbidity (e.g., certain ATON installation, scientific survey device placement, marine debris removal) or if the current is too strong for the curtains to stay in place. Turbidity curtains specifications:

- a) Install floating turbidity barriers with weighted skirts that extend to within 1 ft of the bottom around all work areas that are in, or adjacent to, surface waters.
- b) Use these turbidity barriers throughout construction to control erosion and siltation and ensure that turbidity levels within the project area do not exceed background conditions.
- c) Position turbidity barriers in a way that does not block species' entry to or exit from designated critical habitat.
- d) Monitor and maintain turbidity barriers in place until the authorized work has been completed and the water quality in the project area has returned to background conditions.
- e) In the range of ESA-listed corals (St. Lucie Inlet, Martin County south to the Dry Tortugas and the U.S. Caribbean) and Johnson's seagrass (Turkey Creek/Palm Bay south to central Biscayne Bay in the lagoon systems on the east coast of Florida):
 - i. Projects that include upland earth moving (e.g., grading to install a building or parking lot associated with a dock and seawall project), must install sediment control barriers to prevent any upland sediments from reaching estuarine or marine waters.
 - ii. The turbidity curtain requirement cannot be waived for any project that moves or removes sediment (e.g., dredging, auger to create a pile, trenching to install a cable

line). If turbidity curtains are not feasible in an area based on site conditions such as water current, high wave action, or stormy conditions, the project must undergo individual Section 7 consultation and is not covered under this Programmatic Opinion.

AP.11. Entanglement: All turbidity curtains and other in-water equipment must be properly secured with materials that reduce the risk of entanglement of marine species (described below). Turbidity curtains likewise must be made of materials that reduce the risk of entanglement of marine species.

- a) In-water lines (rope, chain, and cable, including the lines to secure turbidity curtains) must be stiff, taut, and non-looping. Examples of such lines are heavy metal chains or heavy cables that do not readily loop and tangle. Flexible in-water lines, such as nylon rope or any lines that could loop or tangle, must be enclosed in a plastic or rubber sleeve/tube to add rigidity and prevent the line from looping and tangling. In all instances, no excess line is allowed in the water.
- b) Turbidity curtains and other in-water equipment must be placed in a manner that does not entrap species within the construction area or block access for them to navigate around the construction area.

Project Design Criteria (PDCs) for Mangroves, Seagrasses, Corals and Hard Bottom for All Projects

Note: **For projects authorized in reliance on this Opinion only**, the PDCs below supercede any other guidance documents otherwise applicable to reduce or avoid impacts to mangroves, seagrasses, and corals. This includes the NMFS's *Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation, Marsh, or Mangrove Habitat* dated August 2001, and NMFS's *Key for Construction Conditions for Docks or Other Minor Structures Constructed in or over Johnson's Seagrass (Halophila johnsonii)*, dated October 2002. NMFS may still apply these guidance documents in other consultations, including consultations on Essential Fish Habitat under the Magnuson-Stevens Fishery Conservation and Management Act, as appropriate.

AP.12. Mangroves:

- a) To qualify for coverage under this Opinion, all projects must be sited and designed to avoid or minimize impacts to mangroves.
- b) Mangrove removal must be conducted in a manner that avoids any unnecessary removal and is limited to the following instances:
 - i. Removal to install up to a 4-ft-wide walkway for a dock.
 - ii. Removal to install up to an 8-ft-wide walkway for public docks, where the walkway is necessary to address compliance with the Americans with Disability Act (ADA).
 - iii. Removal to install culverts necessary to improve water quality or restore hydrology between 2 water bodies. Such mangrove removal is limited to a maximum of 20 linear feet (lin ft) of shoreline per culvert opening.
 - iv. Removal of mangroves above mean high water (MHW) provided that the tree does not have any prop roots that extend into the water below the MHWL.
- c) Mangrove Trimming. Mangrove trimming is regulated by FDEP, Puerto Rico Department of Natural and Environmental Resources, and U.S. Virgin Islands Department of Planning and Natural Resources. Consistent with those authorities, when used in this Opinion, mangrove trimming refers to the removal (using hand equipment such as chain saws and/or machetes) of lateral branches (i.e., no alteration of the trunk of the tree) in a manner that ensures survival of the tree. This Opinion does not limit or supersede any restrictions on mangrove removal required under any federal, state, or local law.
 - i. This Opinion only covers projects with associated mangrove trimming occurring waterward of MHW if such trimming (1) occurs within the area where the authorized structures are placed or will be placed (e.g., removal of branches that overhang a dock),
 - ii. (2) is necessary to provide temporary construction access, and (3) is conducted in a manner that avoids any unnecessary trimming.

- iii. The Opinion does not apply to projects proposing to remove red mangrove props roots waterward of MHW, except for removal to install the dock walkways, as described above (up to a 4-ft walkway and up to a 8-ft ADA compliant walkway) and to install culverts necessary to improve water quality or restore hydrology between 2 water bodies.

AP.13. Seagrass:

- a) Pile-supported structures must follow the PDCs for *Docks or Other Minor Structures* (PDC A2.17, Section 2.2.2)

Johnson's seagrass:

- b) This Opinion does not apply to projects where Johnson's seagrass is found within the project footprint except for:
 - i. Installation of pile-supported structures that meet the PDCs for *Docks or Other Minor Structures* (PDC A2.17, Section 2.2.2).
 - ii. Maintenance dredging of previously authorized areas. This is limited to the removal of no more than 0.1 acre (ac) (4,356 ft²) of Johnson's seagrass per year (Activity 3; see Section 2.2.3).
 - iii. Transmission/utility line repairs within the same footprint of the lines being repaired (Activity 8; see Section 2.2.8).

Non-listed seagrasses:

- a) All impacts to non-ESA listed native, non-invasive seagrasses should be avoided and minimized to the extent practicable.
- b) This Opinion does not apply to projects located within the geographic boundary of U.S. Caribbean sea turtle critical habitat (hawksbill, leatherback, and the NA DPS of green sea turtle critical habitat identified in Section 2.1.1.5) if non-ESA listed, native, non-invasive seagrasses are found within the project footprint.
- c) This Opinion does not apply to projects that may affect, directly or indirectly, ESA-listed corals.
- d) Projects occurring within in the Florida Keys National Marine Sanctuary (FKNMS) may require separate consultation or authorization from NOAA's FKNMS. Projects authorized to occur in the FKNMS shall comply with any measures NOAA FKNMS has developed to avoid, minimize, and/or mitigate any effects on non-listed corals. For projects occurring outside of the FKNMS, if non-listed corals are found within the project footprint, we recommend relocating all non-listed corals, when possible, in a manner that is protective of the corals.

AP.14. Coral and Hard Bottom Habitat:

- a) This Opinion does not apply to projects that may affect, directly or indirectly, ESA-listed corals.
- b) Projects occurring within in the Florida Keys National Marine Sanctuary (FKNMS) may require separate consultation or authorization from NOAA's FKNMS. Projects authorized to occur in the FKNMS shall comply with any measures NOAA FKNMS has developed to avoid, minimize, and/or mitigate any effects on non-listed corals. For projects occurring outside of the FKNMS, if non-listed corals are found within the project footprint, we recommend relocating all non-listed corals, when possible, in a manner that is protective of the corals.
- c) This Opinion does not apply to projects where hard bottom habitat is found within the project footprint, except for the temporary placement (up to 24 months) of scientific survey devices (Activity 5) that have a footprint of less than 1 square foot (ft²) per device and are installed in a manner that does not permanently alter the hardbottom (e.g., the devices are not installed by drilling). For this Opinion, we define hard bottom in 2 ways:
 - i. Natural consolidated hard substrate that is suitable to support corals, coral larval settlement, reattachment and recruitment of asexual coral fragments. These areas of hard bottom or dead coral skeleton must be free from fleshy or turf macroalgae cover and sediment cover.
 - ii. Nearshore and surf-zone, low-profile hard bottom outcroppings (e.g., worm-rock reef [sabellariid worm reefs] and eolianite, granodiorite). This habitat can be persistent or ephemeral, cycling through periods of exposure and cover by sand. The range of this hard bottom habitat extends along the southeastern coast of Florida from Cape Canaveral to Miami-Dade County and in the U.S. Caribbean. It is an important developmental habitat for juvenile hawksbill and green sea turtles, which use it for both foraging and refuge.

COMMENCEMENT NOTIFICATION

*Within ten (10) days of initiating the authorized work, submit this form via electronic mail to saj-rd-enforcement@usace.army.mil (preferred, not to exceed 15 MB) **or** by standard mail to U.S. Army Corps of Engineers, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.*

1. Department of the Army Permit Number: SAJ- - (-)

2. Permittee Information:

Name: _____

Email: _____

Address: _____

Phone: _____

3. Construction Start Date: _____

4. Contact to Schedule Inspection:

Name: _____

Email: _____

Phone: _____

Signature of Permittee

Printed Name of Permittee

Date

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

*Within sixty (60) days of completion of the authorized work, submit this form via electronic mail to saj-rd-enforcement@usace.army.mil (preferred, not to exceed 15MB) **or** by standard mail to U.S. Army Corps of Engineers, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.*

1. **Department of the Army Permit Number:** SAJ- - (-)
2. **Permittee Information:** Name: _____
Email: _____
Address: _____

Phone: _____
3. **Date Authorized Work Started:** _____ **Completed:** _____
4. **Contact to Schedule Inspection:** Name: _____
Email: _____
Phone: _____
5. **Description of Authorized Work (e.g. bank stabilization, fill placed within wetlands, docks, dredging, etc.):** _____

6. **Acreage or Square Feet of Impacts to Waters of the United States:** _____
7. **Describe Mitigation completed (if applicable):** _____

8. **Describe any Deviations from Permit (attach drawing(s) depicting the deviations):**

I certify that all work and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

Signature of Permittee

Printed Name of Permittee

Date

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.

CAUTION: MANATEE HABITAT

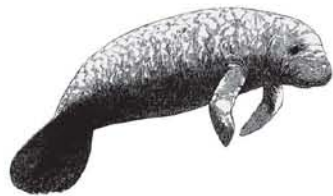
All project vessels

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