



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
1520 ROYAL PALM SQUARE BLVD, SUITE 310
FORT MYERS, FLORIDA 33919

October 1, 2025

Regulatory Division
West Permits Branch
Fort Myers Permits Section
SAJ-2011-00601 (NW-SJF)

Lee County BOCC
C/o Stephen Boutelle
1500 Monroe Street
Fort Myers, FL 33901
Sent via email: sboutelle@leegov.com

Dear Mr. Boutelle:

The U.S. Army Corps of Engineers (Corps) has completed the review of your application for a Department of the Army permit received on September 17, 2025. Your application was assigned file number SAJ-2011-00601. A review of the information and drawings provided indicates that the proposed work would result in the replacement of approximately 2,400 square feet of scour protection mat within the existing footprint at the toe of the boat ramp. The non-vegetated channel bottom will be regraded and new scour protection mat installed -7.2 feet NAVD. No impacts to submerged aquatic vegetation are anticipated. The use of floating turbidity curtains will keep sedimentation to a minimum. The project is located within waters of the United States, associated with the associated with the San Carlos Bay. The project site is located at 18700 McGregor Blvd, in Section 9, Township 46 South, Range(s) 23 East, Fort Myers, Lee County, Florida 33908. The project site is located within the Henley Canal adjacent to San Carlos Bay. Approximate Central Coordinates: (Latitude: 26.48466°, Longitude: -82.01066°). The activities subject to this permit are authorized pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403) and Section 404 of the Clean Water Act (33 U.S.C. § 1344).

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) 3 (Maintenance). **This verification is valid until March 14, 2026.** Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP 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 NWP. In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the NWP General Conditions and the Jacksonville District Regional Conditions, and the General and Project-Specific Special Conditions listed below. Alternatively, you can access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Source Book web page for links to view NWP information at: <https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/>. Please be aware this Internet address is case sensitive and should be entered as it appears above. Once

there select "Source Book" and then select "Nationwide Permits." These files contain the description of the NWP authorization, the NWP general conditions, and the regional conditions, which apply specifically to this NWP verification.

You must comply with all of the special and general conditions for NWP-13, including any project-specific conditions included in this letter and all conditions incorporated by reference as described above.

General Conditions (33 CFR PART 320-330):

1. The time limit for completing the work authorized ends on **March 14, 2026**.
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 or 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 on the transfer form attached to this letter and forward a copy 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.

Project Specific Special Conditions:

The following project specific 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 one (not both) of the following addresses:

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

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

The Permittee shall reference this permit number, SAJ-2011-00601 (NW-SJF), on all submittals.

2. Self-Certification: Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the ENG Form 6285, "Certification of Compliance with Department of Army Permit" (located at https://www.publications.usace.army.mil/Portals/76/Eng_Form_6285_2024%20Dec%20FINAL.pdf) and submit it to the Corps.

3. 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 within 1-foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained daily until the authorized work has been completed and turbidity within the construction area has returned to ambient levels. Turbidity barriers shall be removed upon stabilization of the work area.

4. 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 U.S. Army 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.

5. Manatee Conditions: The Permittee shall abide by the enclosed standard construction conditions designed to protect the endangered West Indian manatee, 2011 (Attached).

6. 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.

7. Jacksonville District Programmatic Biological Opinion (JAXBO): Structures and activities authorized under this permit will be constructed and operated in accordance with all applicable PDCs (Attached) contained in the JAXBO, based on the permitted

activity. Failure to comply with applicable PDCs will constitute noncompliance with this permit. In addition, failure to comply with the applicable PDCs, where a take of listed species occurs, would constitute an unauthorized take. The NMFS is the appropriate authority to determine compliance with the Endangered Species Act. The most current version of JAXBO can be accessed at the Jacksonville District Regulatory Division website in the Endangered Species section of the Sourcebook located at: <http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx>

JAXBO may be subject to revision at any time. The most recent version of these JAXBO must be utilized during the design and construction of the permitted work.

8. Posting of Permit: The Permittee shall have available and maintain for review a copy of this permit and approved plans at the construction site.

9. Daylight Hours: All activities must be completed during daylight hours.

10. Cultural Resources/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, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with native cultures or early colonial settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps at the addresses listed in the **Reporting Address Special Condition** within the same business day (8 hours). The Corps shall coordinate with the Florida State Historic Preservation Officer (SHPO) 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 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. If the unlikely event that human remains are encountered on federal or tribal lands, or in situations where the Archaeological Resources Protection Act of 1979 or the Native American Graves Protection Repatriation Act of 1990 applies, 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 Corps, within the

same business day (8-hours). The Corps shall then notify the appropriate THPO(s) and SHPO. 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. After such notification, project activities on federal lands shall not resume without written authorization from the Corps, and/or appropriate THPO(s), SHPO, and federal manager. After such notification, project activities on tribal lands shall not resume without written authorization from the appropriate THPO(s) and the Corps.

379.411, Florida Statutes, and listed under Rule 68A-27, Florida Administrative Code. With regard to fish and wildlife species designated as species of special concern or threatened by the State of Florida, you are responsible for coordinating directly with the Florida Fish and Wildlife Conservation Commission (FWC). You can visit the FWC license and permitting webpage (<http://www.myfwc.com/license/wildlife/>) for more information, including a list of those fish and wildlife species designated as species of special concern or threatened. The Florida Natural Areas Inventory (<http://www.fnai.org/>) also maintains updated lists, by county, of documented occurrences of those species.

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.

This letter of authorization does not preclude the necessity to obtain any other Federal, State, or local permits, which may be required.

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 <https://regulatory.ops.usace.army.mil/customer-service-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.

Should you have any questions related to this NWP verification or have issues accessing the documents reference in this letter, please contact Stephen Fleming at the letterhead address above, via telephone at 239-334-1975 x003, or via e-mail at Stephen.j.fleming@usace.army.mil.

Sincerely,

Stephen Fleming
Project Manager

Enclosures:

Department of the Army Permit Transfer Request
Standard Manatee Conditions for In-Water Work
National Marine Fisheries Service's "PDCs for In-Water Activities"
National Marine Fisheries Service's "PDCs for Boat Ramps"
Permit Drawings

cc: Grady Timmins – Coastal Engineering Consultants

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

DA PERMIT NUMBER: SAJ-2011-00601 (NW-SJF)

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 or submit via electronic mail to: SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).

(TRANSFEREE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT)

(BLOCK)

(NAME-PRINTED)

(STREET ADDRESS)

(MAILING ADDRESS)

(CITY, STATE, ZIP CODE)

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

**U.S. Army Corps of Engineers Jacksonville District's Programmatic Biological
Opinion (JaxBO) Project Design Criteria (PDCs) for In-Water Activities**

November 20, 2017

- 1) **(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
- 2) **(AP.8.) Reporting** of 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 911 (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.
- 3) **(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.

- 4) **(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 cableline). 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.
- 5) **(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 Specific to Activity 6 for Boat Ramps:

A6.1. Activities covered by this Opinion include:

- A6.1.1. Removal or reconfiguration of existing boat ramps. The removal of upland-cut boat basins by walling off and filling them in is a type of shoreline stabilization covered under Activity 1, PDC A1.1, Section 2.2.1.
- A6.1.2. Installation of new boat ramps for motorized vessels (1) are limited in size to 40 ft wide, (2) can have up to 2 boat lanes, and (3) can be associated with no more than 50 trailered vehicle parking spaces.
- A6.1.3. New boat ramps for non-motorized vessels are limited in size to 60 ft wide.
- A6.1.4. Repair and replacement of existing boat ramps can occur within the same footprint of the existing ramp, even if the repaired or replaced boat ramp does not meet the size requirements in PDC A6.1.2 and A6.1.3.
Reconfiguration of boat ramps for motorized vessels that propose to expand the footprint must meet the size limitations described in A6.1.2 (i.e., the reconfiguration must be no more than 40 ft wide and can have up to 2 boat lanes).

The following PDCs apply to all the activities described in PDC A6.1 above:

- A6.2. Excavation is limited to the area necessary for site preparation. All excavated material shall be removed to an area that is not waters of the United States, as that term is defined and interpreted under the CWA, including wetlands.
- A6.3. All commercial or public boat ramps must have signs posted in a visible location(s) on the dock(s), alerting boaters of listed species in the area susceptible to vessel strikes or hook-and-line captures. These signs shall include contact information for the sea turtle and marine mammal stranding networks and smalltooth sawfish encounter database. Please visit our website (http://sero.nmfs.noaa.gov/protected_resources/section_7/protected_species_educational_signs/index.html) to determine which signs are required for your area, for sign installation guidance, and to download the most current version of the signs. In addition,
 - A6.3.1. All projects shall use the *Save Sea Turtle, Sawfish, and Dolphin* sign.
 - A6.3.2. 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.
 - A6.3.3. Projects in the range of Gulf, Atlantic, or shortnose sturgeon also shall post the *Report Sturgeon* sign.
 - A6.3.4. 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.

- A6.4. All commercial and public boat ramps also must install and maintain for the life of the facility monofilament recycling bins to reduce the risk of turtle or sawfish entanglement in or ingestion of marine debris. Monofilament recycling bins must:
- A6.4.1. Be constructed and labeled according to the instructions provided at <http://mrrp.myfwc.com> or any equivalent guidance for the U.S. Caribbean.
 - A6.4.2. Be maintained for the life of the facility in working order and emptied frequently so that they do not overflow.
- A6.5. The length of new boat ramps and changes to existing boat ramps to make them longer should ensure a water depth at the end of the ramp is deep enough to minimize sediment resuspension associated with launching vessels in shallow water.
- A6.6. New boat ramps cannot be installed on ocean beaches that are used by nesting sea turtles.

Additional PDCs for Activity 6 applicable in critical habitat:

In addition to the PDCs above, the project must be designed to meet the following PDCs if the project occurs in critical habitat, as described below.

- A6.7. Smalltooth Sawfish critical habitat:
- A6.7.1. New or expanded ramps located within smalltooth sawfish designated critical habitat cannot result in the loss of an essential feature of that critical habitat (red mangroves or shallow [MHWL to -3 ft MLLW], euryhaline water).
 - A6.7.2. Boat ramps can be constructed in waters between MHWL and -3 ft MLLW (shallow, euryhaline habitat essential feature), provided that the water depth is not increased to deeper than -3 ft MLLW.
 - A6.7.3. A boat ramp in smalltooth sawfish critical habitat may be repaired and replaced within the existing footprint.
 - A6.7.4. Boat ramp activities cannot occur in areas identified as smalltooth sawfish limited exclusion zone, defined in Section 2.1.1.1.
 - A6.7.5. Removal of upland cut boat ramps is allowed under this Opinion.
- A6.8. *Acropora* critical habitat: New or expanded boat ramps are not allowed in *Acropora* critical habitat where the essential features are present. Boat ramp repair and replacement is allowed within *Acropora* critical habitat within the existing footprint.
- A6.9. Johnson's seagrass critical habitat: New or expanded boat ramps are not allowed in Johnson's seagrass critical habitat where the essential features are present. Boat ramp repair and replacement is allowed within the existing footprint.
- A6.10. 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.

A6.11. U.S. Caribbean sea turtle critical habitat (hawksbill, leatherback, and the NA DPS of green sea turtle critical habitat): This Opinion does not apply to new structures placed in sea turtle critical habitat in the U.S. Caribbean. Repair and replacement of shoreline protection within U.S. Caribbean sea turtle critical habitat is covered if it is within the existing footprint.

PUNTA RASSA BOAT RAMP SCOUR PROTECTION REPLACEMENT

PREPARED FOR:
LEE COUNTY

INDEX:

1. COVER SHEET
2. EXISTING CONDITIONS PLAN
3. PROPOSED SCOUR PROTECTION PLANS
4. PROPOSED SCOUR PROTECTION DETAILS
5. PROPOSED SECTION A-A'

LEGEND:

- ▲ = EXISTING CHANNEL MARKERS
-6- = ELEVATION IN FEET BELOW NAVD

NOTES:

1. BATHYMETRIC DATA COLLECTED BY COASTAL ENGINEERING CONSULTANTS, INC., ON MAY 15, 2025.
2. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). REFERENCED BENCHMARK: 872 5391 J TIDAL PID# DR7006 (+2.73 FT).
4. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS AND REFERENCED TO NAVD88.
5. SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING MANUAL, 1 JAN 02.
6. INFORMATION SHOWN HEREON REFLECTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
7. AERIAL PHOTOGRAPHY PROVIDED BY LEE COUNTY, DATED 2025.



LOCATION MAP

N.T.S.



FOR PERMITTING
PURPOSES ONLY.
NOT TO BE USED FOR
CONSTRUCTION.

PUBLISHED TIDAL INFORMATION

TIDAL DATUMS AT PUNTA RASSA, SAN CARLOS BAY, LEE COUNTY, FL
ARE BASED ON FLORIDA 872 5391

TIME PERIOD	= JUNE 1977 - MAY 1978
TIDAL EPOCH	= 1983 - 2001
CONTROL TIDE STATION	= NAPLES, GULF OF MEXICO (872 5110)

ELEVATIONS OF TIDAL DATUMS ARE REFERENCED IN
NAVD 1988.

MEAN HIGHER HIGH WATER (MHHW)	= +0.38 FT NAVD
MEAN HIGH WATER (MHW)	= +0.14 FT NAVD
MEAN LOW WATER (MLW)	= -1.40 FT NAVD
MEAN LOWER LOW WATER (MLLW)	= -1.88 FT NAVD

SHEET 1
FILE NO.: 25005-P-1

**COASTAL
ENGINEERING
CONSULTANTS
INC.**
Serving Florida Since 1977
28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FLORIDA 34135

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SURVEY & MAPPING
COASTAL ENGINEERING
ENVIRONMENTAL
PLANNING SERVICES
PHONE: (239)643-2324
FAX: (239)643-1143
www.coastalengineering.com
E-Mail: info@cecifi.com

CLIENT:

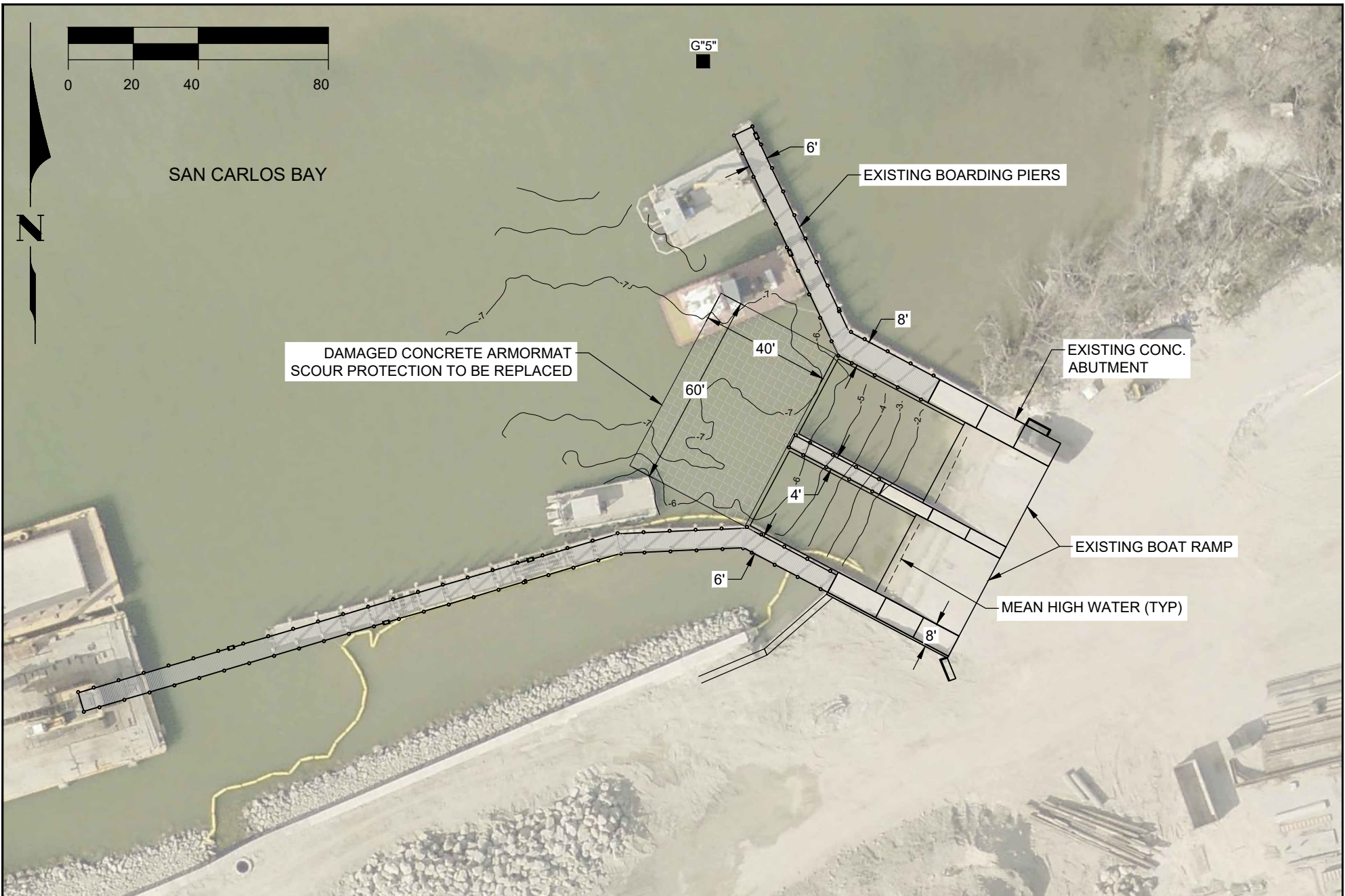
LEE COUNTY

TITLE:

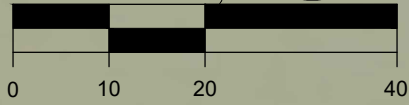
**PUNTA RASSA BOAT RAMP
SCOUR PROTECTION REPLACEMENT
COVER SHEET**

DATE:	8/19/2025	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MAK	PG.	
SEC.	TWP.	RNG.	
ACAD NO.	25005-Scour Protection-P.dwg		
REF. NO.	25.005		

NO.	DATE	BY	REVISION DESCRIPTION



SHEET 2 FILE NO. 25005-P-2	 COASTAL ENGINEERING CONSULTANTS INC. Serving Florida Since 1977 28421 BONITA CROSSINGS BLVD BONITA SPRINGS, FLORIDA 34135	CIVIL ENGINEERING SURVEY & MAPPING COASTAL ENGINEERING ENVIRONMENTAL PLANNING SERVICES PHONE: (239)643-2324 FAX: (239)643-1143 www.coastalengineering.com E-Mail: info@cecifl.com	CLIENT: LEE COUNTY TITLE: PUNTA RASSA BOAT RAMP SCOUR PROTECTION REPLACEMENT EXISTING CONDITIONS PLAN	DATE: 8/19/2025 DRAWN: SDB CHECKED: MAK SEC. TWP. RNG. ACAD NO. 25005-Scour Protection-P.dwg REF. NO. 25.005	SCALE: AS NOTED F.B. PG. NO. DATE BY REVISION DESCRIPTION



NOTE: EXISTING DAMAGED SCOUR PROTECTION MAT TO BE REMOVED AND DISPOSED OF. NEW CONCRETE MATS TO BE REPLACED IN SAME FOOTPRINT.

PROPOSED ARMORMAT

CONCRETE ABUTMENT

BOAT RAMP

MEAN HIGH WATER (TYP)

CONCRETE ABUTMENT

SHEET 3
FILE NO. 25005-P-3

COASTAL ENGINEERING CONSULTANTS INC.
Serving Florida Since 1977
28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FLORIDA 34135

CIVIL ENGINEERING
SURVEY & MAPPING
COASTAL ENGINEERING
ENVIRONMENTAL
PLANNING SERVICES
PHONE: (239)643-2324
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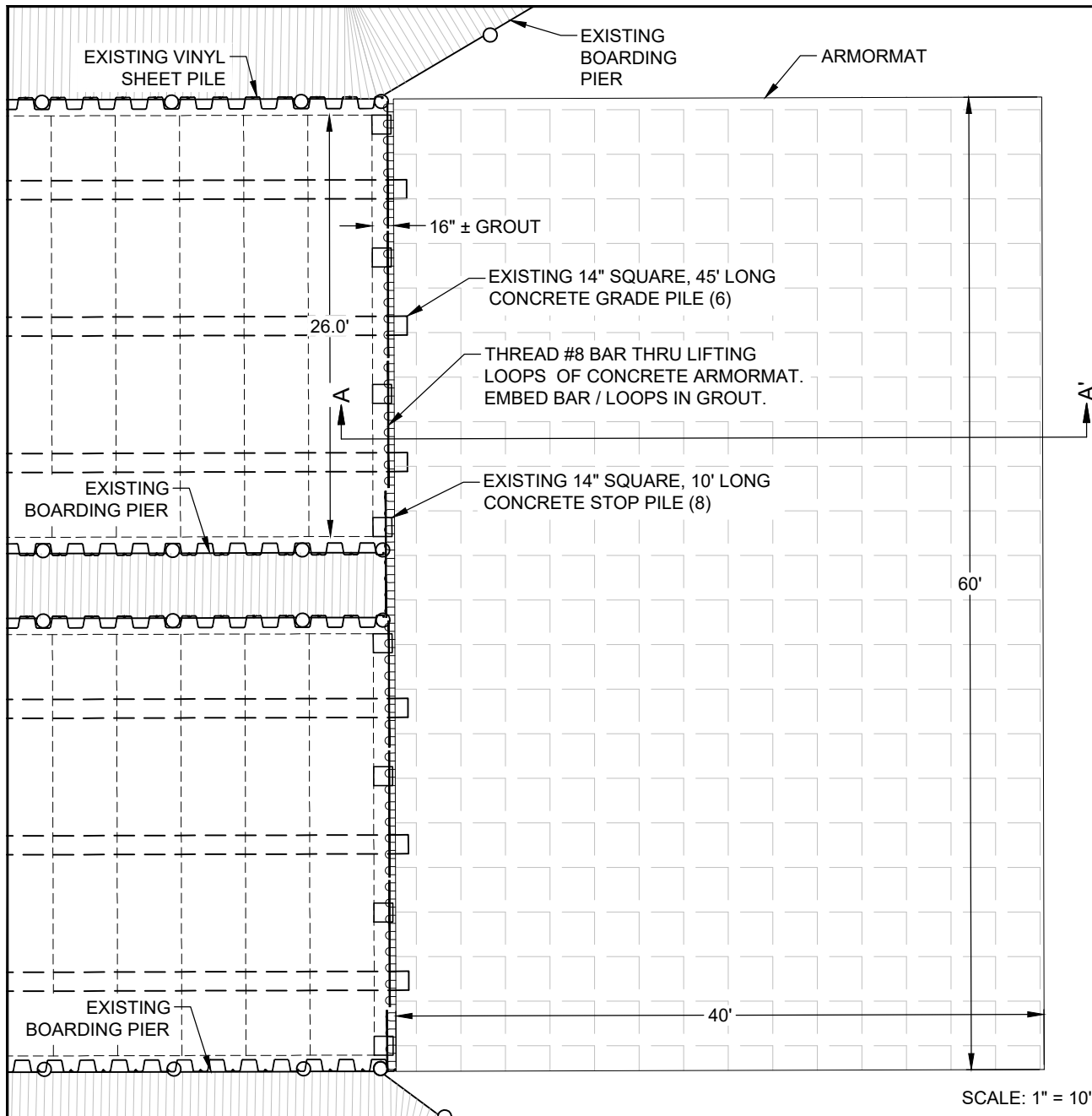
CLIENT:

LEE COUNTY

TITLE:

PUNTA RASSA BOAT RAMP
SCOUR PROTECTION REPLACEMENT
PROPOSED SCOUR PROTECTION PLAN

DATE:	8/19/2025	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MAK	PG.	
SEC.	TWP.	RNG.	
ACAD NO.	25005-Scour Protection-P.dwg		
REF. NO.	25.005	NO.	DATE BY REVISION DESCRIPTION



SCALE: 1" = 10'

SHEET 4
FILE NO.: 25005-P-4

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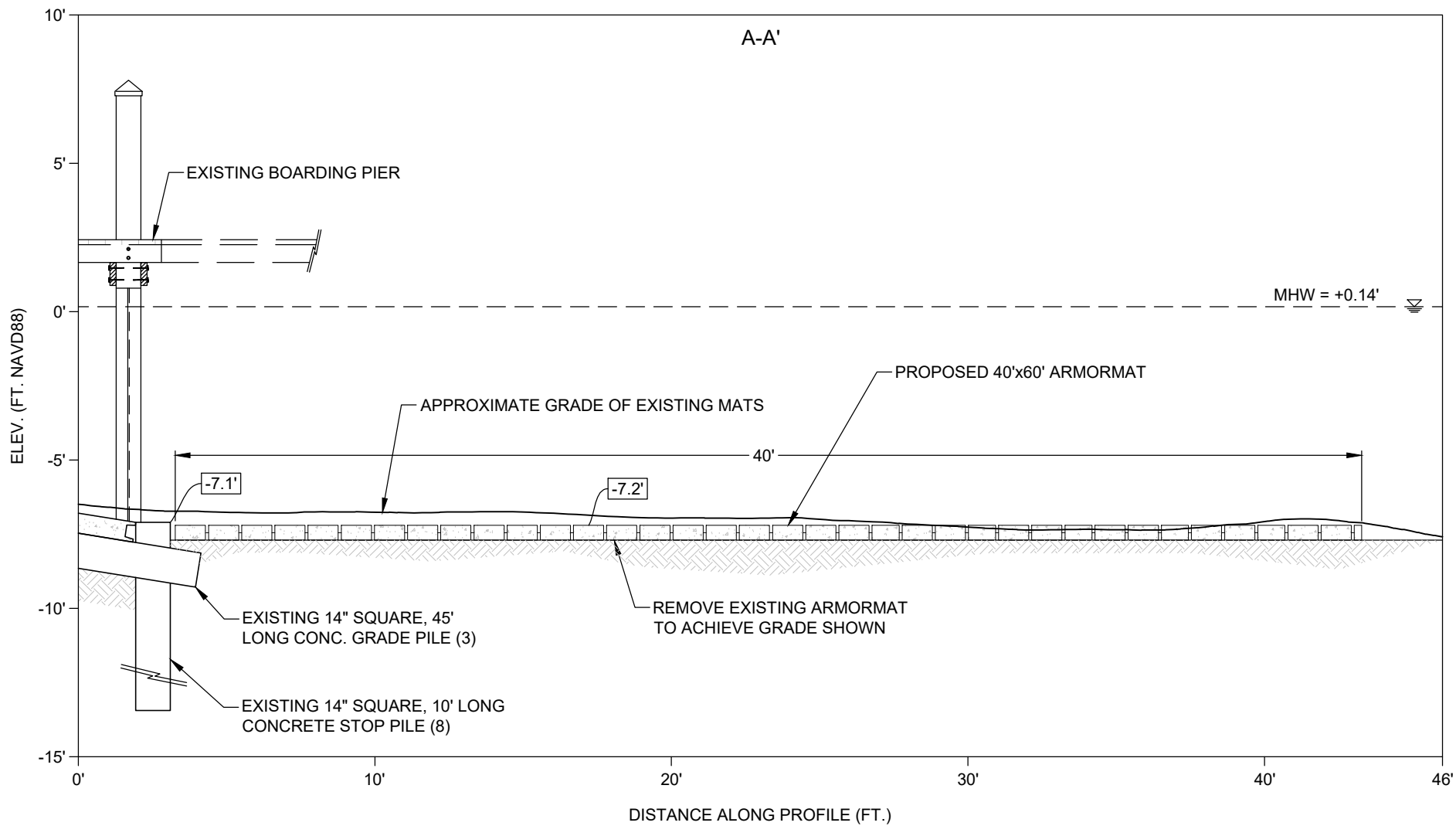
CLIENT:

LEE COUNTY

TITLE:

PUNTA RASSA BOAT RAMP
SCOUR PROTECTION REPLACEMENT
PROPOSED SCOUR PROTECTION DETAILS

DATE:	8/19/2025	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MAK	PG.	
SEC.	TWP.	RNG.	
ACAD NO.	25005-Scour Protection-P.dwg		
REF. NO.	25.005	NO.	DATE
		BY	REVISION DESCRIPTION



SCALE:
H: 1" = 5'
V: 1" = 5'

NOTE: PERMITTED DREDGE
DEPTH IS -7.2' NAVD88.

SHEET 5
FILE NO.: 25005-P-5

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CLIENT:

TITLE:

**LEE COUNTY
PUNTA RASSA BOAT RAMP
SCOUR PROTECTION REPLACEMENT
PROPOSED SCOUR PROTECTION
SECTION A-A'**

DATE:	8/19/2025	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MAK	PG.	
SEC.	TWP.	RNG.	
ACAD NO.	25005-Scour Protection-P.dwg		
REF. NO.	25.005	NO.	DATE
		BY	REVISION DESCRIPTION