



FLORIDA DEPARTMENT OF Environmental Protection

Southeast District
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
561-681-6600

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Alexis A. Lambert
Secretary

January 29, 2025

Jeff Designer
4301 Tranquility Dr
Highland Beach, FL 33487
Sent via e-mail: jeff@formative.build

Re: File No.: 50-454157-001,002,003-EE
File Name: TRANQUILITY DOCK AND SEAWALL

Dear Jeff Designer :

On 10/18/2024 we received your request for verification of exemption to perform the following activities: 1) to install a new 100 linear foot seawall, 2) to install a new associated seawall cap, 3) to install a new 200 square foot concrete dock. The project is located in the residential canal, Class III Waters, adjacent to 4301 Tranquility Dr, Highland Beach (Section 24, Township 43 South, Range 27 East), in Palm Beach County (Latitude N 26°23'57.3418", Longitude W 80°4'1.2445").

Your request has been reviewed to determine whether it qualifies for (1) regulatory exemption, (2) proprietary authorization (related to state-owned submerged lands), and (3) federal approval that may be necessary for work in wetlands or waters of the United States.

Your project qualifies for all three. However, this letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity.

If you change the project from what you submitted, the authorization(s) granted may no longer be valid at the time of commencement of the project. Please contact us prior to beginning your project if you wish to make any changes.

If you have any questions regarding this matter, please contact **Matthew Field** at the letterhead address or at Matthew.Field@FloridaDEP.gov

1. Regulatory Review - VERIFIED

Based on the information submitted, the Department has verified that the activity as proposed are exempt under Chapter 62-330.051(12)(a), (12)(d), (5)(c), Florida Administrative Code, from the need to obtain a regulatory permit under Part IV of Chapter 373 of the Florida Statutes.

This exemption verification is based on the information you provided the Department and the statutes and rules in effect when the information was submitted. This verification may not be valid if site conditions materially change, the project design is modified, or the statutes or rules governing the exempt activity are amended. In the event you need to re-verify the exempt status for the activity, a new request and verification fee will be required. Any substantial modifications to the project design should be submitted to the Department for review, as changes may result in a permit being required.

2. Proprietary Review – NOT REQUIRED

The activity does not require further authorization under chapter 253 of the Florida Statutes, or chapters 18-20 or 18-21 of the Florida Administrative Code.

3. Federal Review – APPROVED

Your proposed activity as outlined in your application and attached drawings qualifies for Federal authorization pursuant to the State Programmatic General Permit VI-R1, and a **SEPARATE permit** or authorization **will not be required** from the U.S. Army Corps of Engineers. Please note that the Federal authorization expires on July 27, 2026. However, your authorization may remain in effect for up to 1 additional year, if provisions of Special Condition 15 of the SPGP VI-R1 permit instrument are met. You, as permittee, are required to adhere to all General Conditions and Special Conditions that may apply to your project. Special conditions required for your project are attached. A copy of the SPGP VI-R1 with all terms and conditions and the General Conditions may be found online in the Jacksonville District Regulatory Division Sourcebook (<https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/>).

Authority for review - an agreement with the USACOE entitled “Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection (or Duly Authorized Designee), State Programmatic General Permit”, Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Additional Information

Please retain this letter. The activities may be inspected by authorized state personnel in the future to ensure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until a subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Palm Beach County, Florida

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Matthew Field
Environmental Specialist II
Southeast District

Enclosures:

Attachment A- Specific Exemption Rule
Special Conditions for Federal Authorization for SPGP VI-R1
General Conditions for Federal Authorization for SPGP VI-R1
Project drawings, 12 pages

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

FDEP – Matthew Field
Ileen Gonzalez, Breezy Permits LLC, info@breezypermits.com

Additional mailings:

SPGP, nmfs.ser.statewideprogrammatic@noaa.gov ; spgp@usace.army.mil
Matt Mitchell, Palm Beach County, Environmental Resources, mmitchell@pbcgov.org

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Vanessa Osborne 01-29-2025
Clerk Date

Attachment A

Chapter 62-330.051 Exempt Activities.

The activities meeting the limitations and restrictions below are exempt from permitting. However, if located in, on, or over state-owned submerged lands, they are subject to a separate authorization under Chapters 253 and 258, F.S., and Chapters 18-18, 18-20, and 18-21, F.A.C., as applicable.

(5) Dock, Pier, Boat Ramp and Other Boating-related Work –

(c) Construction of private docks or piers of 1,000 square feet or less of over-water surface area in artificial waters in accordance with section 403.813(1)(i), F.S., and within residential canal systems legally in existence under chapter 403 or part IV of chapter 373, F.S. This includes associated structures such as roofs and boat lifts, provided the cumulative square footage of the dock or pier and all associated structures located over wetlands and other surface waters does not exceed 1,000 square feet.

(12) Construction, Restoration, Enhancement, and Repair of Seawall, Riprap, and Other Shoreline Stabilization –

(a) Construction, replacement, and repair of seawalls or riprap in artificially created waterways under section 403.813(1)(i), F.S., and within residential canal systems legally in existence under chapter 403 or part IV of chapter 373, F.S., including only that backfilling needed to level the land behind seawalls or riprap.

(d) Installation of batter piles, king piles, or a seawall cap, used exclusively to stabilize and repair seawalls, provided they do not impede navigation.

Rulemaking Authority 373.026(7), 373.043, 373.4131, 373.4145, 403.805(1) FS. Law Implemented 373.406, 373.4131, 373.4145, 373.415, 403.813(1) FS. History—New 10-1-13, Amended 6-1-18.

Special Conditions for Federal Authorizations for SPGP VI-R1

1. Authorization, design and construction must adhere to the terms of the SPGP VI instrument including the General Conditions for All Projects, Special Conditions for All Projects, Applicable activity-specific special conditions, Procedure and Work Authorized sections.
2. Design and construction must adhere to the PDCs for In-Water Activities (Attachment 28, from PDCs AP.7 through AP11, inclusive, of JAXBO) (Reference: JAXBO PDC AP.1.).
3. All activities must be performed during daylight hours (Reference: JAXBO PDC AP.6.).
4. For all projects involving the installation of piles, sheet piles, concrete slab walls or boatlift I-beams (Reference Categories A, B and C of JAXBO PDCs for In-Water Noise from Pile and Sheet Pile Installation, page 86):
 - a. Construction methods limited to trench and fill, pilot hole (auger or drop punch), jetting, vibratory, and impact hammer (however, impact hammer limited to installing no more than 5 per day).
 - b. Material limited to wood piles with a 14-inch diameter or less, concrete piles with a 24-inch diameter/width or less, metal pipe piles with a 36-inch diameter or less, metal boatlift I-beams, concrete slab walls, vinyl sheet piles, and metal sheet piles.
 - c. Any installation of metal pipe or metal sheet pile by impact hammer is not authorized (Reference: Categories D and E of JAXBO PDCs for In-Water Noise from Pile and Sheet Pile Installation, page 86.).
 - d. Projects within the boundary of the NOAA Florida Keys National Marine Sanctuary require prior approval from the Sanctuary (Reference: JAXBO PDCs AP.14 and A1.6).
5. The Permittee shall comply with the “Standard Manatee Conditions for In-Water Work – 2011” (Attachment 29).
6. No structure or work shall adversely affect or disturb properties listed in the National Register of Historic Places or those eligible for inclusion in the National Register. Prior to the start of work, the Applicant/Permittee or other party on the Applicant’s/Permittee’s behalf, shall conduct a search of known historical properties by contracting a professional archaeologist, and contacting the Florida Master Site File at 850-245-6440 or SiteFile@dos.state.fl.us. The Applicant/Permittee can also research sites in the National Register Information System (NRIS). Information can be found at <http://www.cr.nps.gov/nr/research>.
 - a. If, during the initial ground disturbing activities and construction work, there are archaeological/cultural materials unearthed (which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work in the

vicinity and notify the Compliance and Review staff of the State Historic Preservation Office at 850-245- 6333 and the Corps Regulatory Archeologist at 904-232-3270 to assess the significance of the discovery and devise appropriate actions, including salvage operations. 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 C.F.R. § 325.7.

b. In the unlikely event that human remains are identified, the remains will be treated in accordance with Section 872.05, Florida Statutes; all work in the vicinity shall immediately cease and the local law authority, and the State Archaeologist (850-245-6444) and the Corps Regulatory Archeologist at 904-232-3270 shall immediately be notified. Such activity shall not resume unless specifically authorized by the State Archaeologist and the Corps.

7. The Permittee is responsible for obtaining any “take” permits required under the U.S. Fish and Wildlife Service’s regulations governing compliance with these laws. The Permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such “take” permits are required for a particular activity.

8. Mangroves. The design and construction of a Project must comply with the following (Reference: JAXBO PDCs AP.3 and AP.12.):

a. 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:

(1) Removal to install up to a 4-ft-wide walkway for a dock.

(2) Removal of mangroves above the mean high water line (MHWL) provided that the tree does not have any prop roots that extend into the water below the MHWL.

(3) Mangrove trimming. 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.

(a) Projects with associated mangrove trimming waterward of the MHWL are authorized if the trimming: (a) occurs within the area where the authorized structures are placed or will be placed (i.e., removal of branches that overhang a dock or lift),

(b) is necessary to provide temporary construction access, and (c) is conducted in a manner that avoids any unnecessary trimming.

(b) Projects proposing to remove red mangrove prop roots waterward of the MHWL are not authorized, except for removal to install the dock walkways as described above.

9. For Projects authorized under this SPGP VI in navigable waters of the U.S., 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.

10. Notifications to the Corps. For all authorizations under this SPGP VI, including Self-Certifications, the Permittee shall provide the following notifications to the Corps:

- a. 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 (Attachment 8).
- b. Corps Self-Certification Statement of Compliance form. Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the "Self-Certification Statement of Compliance" form (Attachment 9) 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.
- c. Permit Transfer. 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. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date the enclosed form (Attachment 10).
- d. Reporting Address. The Permittee shall submit all reports, notifications, documentation, and correspondence required by the general and special conditions of this permit to the following address.

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

(2) For electronic mail: SAJ-RD-Enforcement@usace.army.mil (not to exceed 10 MB). The Permittee shall reference this permit number, SAJ-2015-2575 on all submittals.

11. The District Engineer reserves the right to require that any request for authorization under this SPGP VI be evaluated as an Individual Permit. Conformance with the terms and conditions of the SPGP VI does not automatically guarantee Federal authorization.

12. On a case-by-case basis, the Corps may impose additional Special Conditions which are deemed necessary to minimize adverse environmental impacts.

13. Failure to comply with all conditions of the SPGP VI constitutes a violation of the Federal authorization.

14. The SPGP VI will be valid through the expiration date unless suspended or revoked by issuance of a public notice by the District Engineer. The Corps, in conjunction with the Federal resource agencies, will conduct periodic reviews to ensure that continuation of the permit during the period ending expiration date, is not contrary to the public interest. The SPGP VI will not be extended beyond the expiration date but may be replaced by a new SPGP. If revocation occurs, all future applications for activities covered by the SPGP VI will be evaluated by the Corps.

15. If the SPGP VI expires, is revoked, or is terminated prior to completion of the authorized work, authorization of activities which have commenced or are under contract to commence in reliance upon the SPGP VI will remain in effect provided the activity is completed within 12 months of the date the SPGP VI expired or was revoked.

Special Conditions for Shoreline Stabilization activities.

16. Shoreline stabilization structures other than vertical seawalls shall be no steeper than a 2 horizontal:1 vertical slope (Reference: JAXBO PDC A1.1.4.).

17. Placement of backfill is limited to those situations where it is necessary to level the land behind seawalls or riprap.

18. Living shoreline structures and permanent wave attenuation structures can only be constructed out of the following materials: oyster breakwaters, clean limestone boulders or stone (sometimes contained in metal baskets or cages to contain the material), small mangrove islands, biologs, coir, rock sills, and pre-fabricated structures made of concrete and rebar that are designed in a manner so that they do not trap sea turtles, smalltooth sawfish, or sturgeon (Reference: JAXBO PDC A7.5.).

a. Reef balls or similar structures are authorized if they are not open on the bottom, are open-bottom structures with a top opening of at least 4 ft, or are pre-fabricated structures, such as reef discs stacked on a pile, and are designed in a manner that would not entrap sea turtles.

b. Oyster reef materials shall be placed and constructed in a manner that ensures that materials will remain stable and that prevents movement of materials to surrounding areas (e.g., oysters will be contained in bags or attached to mats and loose cultch must be surrounded by contained or bagged oysters or another stabilizing feature) (Reference: JAXBO PDC A7.2.).

c. Oyster reef materials shall be placed in designated locations only (i.e., the materials shall not be indiscriminately dumped or allowed to spread outside of the reef structure) (Reference: JAXBO PDC A7.3.)

d. Wave attenuation structures must have 5 ft gaps at least every 75 ft in length as measured parallel to the shoreline and at the sea floor, to allow for tidal flushing and species movement (Reference: JAXBO PDC A7.6.).

e. Other materials are not authorized by this SPGP VI (Reference: JAXBO PDC A7.5.).

Special Conditions for *Boat Ramp* activities.

19. Restrictions on Dredged Material and Disposal: 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 Clean Water Act, including wetlands (Reference: JAXBO PDC A6.2.).

20. Turbidity: The length of new boat ramps and repair and replacement of 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 (Reference: JAXBO PDC A6.5.).

Special Conditions for Docks, Piers, Associated Facilities, and other Minor Piling-Supported Structures.

21. Chickees must be less than 500 ft² and support no more than 2 slips (Reference: JAXBO PDC A2.1.6.).

22. The design and construction of a Project over marsh (emergent vegetation) must comply with the following:

a. The piling-supported structure shall be aligned so as to have the smallest over- marsh footprint as practicable.

b. The over-marsh portion of the piling-supported structure (decking) shall be elevated to at least 4 feet above the marsh floor.

c. The width of the piling-supported is limited to a maximum of 4 feet. Any exceptions to the width must be accompanied by an equal increase in height requirement.

23. Mangroves. For pile-supported structures, the following additional requirements for mangroves found in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11) shall apply:

a. The width of the piling-supported structure is limited to a maximum of 4 feet.

b. Mangrove clearing is restricted to the width of the piling-supported structure.

c. The location and alignment of the piling-supported structure should be through the narrowest area of the mangrove fringe.

24. Regarding SAV, the design and construction of a Project must comply with the following:

a. A pile supported structure

(1) that is located on a natural waterbody (i.e. outside an artificial waterway that was excavated for boating access and is bordered by residential properties); and

(2) that is within the range of seagrass (estuarine waters within all coastal counties except for Nassau, Duval, St Johns, Flagler and Volusia north of Ponce Inlet), but outside of the range of Johnson's seagrass (the range of Johnson's seagrass is defined as Turkey Creek/Palm Bay south to central Biscayne Bay in the lagoon systems on the east coast of Florida) will be constructed to the following standards:

(a) If no survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, then SAV is presumed present and the pile-supported structure must comply with, or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling- Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11). For the purposes of SPGP, two uncovered boatlifts are allowed.

(i) If the pile supported structure is currently serviceable, repair and replacement may occur in the same footprint without completion of a benthic survey.

(ii) Boatlifts and minor structures in Monroe County may be installed within existing boat slips without completion of a SAV survey. Boatlift accessory structures, like catwalks, shall adhere to "Construction Guidelines in Florida for Minor Piling- Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11) if a SAV survey has not been completed.

(iii) A marginal dock may be constructed a maximum of 5 feet overwater, as measured from the waterward face (wet face) of the seawall).

(b) If a survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, and SAV is present (including seagrass, tidal freshwater SAV and emergent vegetation), then the pile-supported structure must comply with, or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11). For the purposes of this permit, two uncovered boatlifts are allowed.

- (i) If the pile supported structure is currently serviceable, repair and replacement may occur in the same footprint without completion of a benthic survey.
 - (ii) Boatlifts may be installed within existing boat slips without completion of a SAV survey.
 - (iii) A marginal dock may be constructed a maximum of 5 feet overwater, as measured from the waterward face (wet face) of the seawall).
- (c) If a survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, and SAV is absent (including seagrass, tidal freshwater SAV and emergent vegetation), then no design restrictions are required and boatlifts may include a cover.
- (d) A pile supported structure
- (i) that is located on a natural waterbody (i.e. outside an artificial waterway that was excavated for boating access and is bordered by residential properties); and
 - (ii) that is within the range of Johnson's seagrass (the range of Johnson's seagrass is defined as Turkey Creek/Palm Bay south to central Biscayne Bay in the lagoon systems on the east coast of Florida) but not within Johnson's seagrass critical habitat will be constructed to the following standards:
 - (iii) If no survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, then seagrass is presumed present and the pile-supported structure must comply with or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11) with the sole exception of the number of allowable boat lifts. For the purposes of this permit, two uncovered boatlifts are allowed.
- (e) If a survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, and SAV is present (including seagrass, tidal freshwater SAV and emergent vegetation), THEN pile-supported structure must comply with or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11). For the purposes of this permit, two uncovered boatlifts are allowed.
- (f) If a survey is performed in accordance with the methods described in the procedure section of this document, section I.3, and SAV is absent (including seagrass, tidal freshwater SAV and emergent vegetation), THEN no design restrictions are required and boatlifts may include a cover.

(g) A pile supported structure located within Johnson's seagrass critical habitat will be constructed to the following standards:

(i) If no survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, then seagrass is presumed present and the pile-supported structure must comply with or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11) with the sole exception of the number of allowable boat lifts. For the purposes of this permit, two uncovered boatlifts are allowed.

(ii) If a survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, and SAV is absent and the project is

1. A dock replacement in the same footprint, no design restrictions are required.

2. A new dock or dock expansion THEN pile-supported structure must comply with or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11). For the purposes of this permit, two uncovered boatlifts are allowed.

(iii) If a survey is performed in accordance with the methods described in the Procedure section of this document, section I.3, and SAV is present (including seagrass, tidal freshwater SAV and emergent vegetation), then pile-supported structure must comply with or provide a higher level of protection than, the protective criteria in the joint U.S. Army Corps of Engineers'/National Marine Fisheries Service's "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh or Mangrove Habitat" U.S. Army Corps of Engineers/National Marine Fisheries Service updated November 2017 (Attachment 11). For the purposes of this permit, two uncovered boatlifts are allowed.

25. North Atlantic Right Whale. The attached North Atlantic Right Whale Information Form (Attachment 30) describes the presence of North Atlantic right whales in the area and the Federal regulations governing the approach to North Atlantic right whales. The FDEP or Designee will attach the North Atlantic Right Whale Information Form to their authorizations for any dock project (new construction, repair, or replacement) at a private residence located within 11 nautical miles of an inlet that leads to areas within the known range of North Atlantic right whale. These zones, with an 11 nm radius, are described by the North Atlantic Right Whale Educational Sign Zones, Attachment 7 (from Section 2.1.1.4 of JAXBO, pages 31 and 32, inclusive). (Reference JAXBO PDC A2.4).

26. Educational Signs. For commercial, multi-family, or public facilities, and marine events, signs must be posted as described below (Reference: These replicate JAXBO PDCs A.2.2 and A.2.2.1 to A.2.2.3., inclusive, within the table PDCs Specific to Activity 2 - Pile Supported Structures and Anchored Buoys, starting on page 112.):

a. 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:
(<https://www.fisheries.noaa.gov/southeast/consultations/protected-species-educational-signs>). The signs required to be posted by area are stated below:
<https://www.fisheries.noaa.gov/southeast/consultations/protected-species-educational-signs>

(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.

(2) Projects within the North Atlantic right whale educational sign zone shall post the Help Protect North Atlantic Right Whales sign.

(3) On the east coast of Florida, projects located within the St. Johns 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.

27. Monofilament Recycling Bins. For commercial, multi-family, or public facilities, monofilament recycling bins must be provided as described below (Reference: The below replicates PDC A.2.3 within the table PDCs Specific to Activity 2 – Pile Supported Structures and Anchored Buoys, the PDC itself on page 113 of the JAXBO.):

a. 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:

(1) Be constructed and labeled according to the instructions provided at <http://mrrp.myfwc.com>.

(2) Be maintained in working order and emptied frequently (according to <http://mrrp.myfwc.com> standards) so that they do not overflow.

28. Lighting for docks installed within visible distance of ocean beaches. If lighting is necessary, then turtle-friendly lighting shall be installed. 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/> (Reference: JAXBO PDC A2.8.).

29. Construction Location. Project construction shall take place from uplands or from floating equipment (e.g., barge); prop or wheel-washing is prohibited (Reference: JAXBO PDC A2.9.).

30. Aids to Navigation (ATONs). ATONs must be approved by and installed in accordance with the requirements of the U.S. Coast Guard (i.e., 33 C.F.R., chapter I, subchapter C, part 66, Section 10 of the Rivers and Harbors Act, and any other pertinent requirements) (Reference: JAXBO PDC A2.5.).

31. Aids to Navigation (ATONs) in Acropora critical habitat. The distance from ATONs to ESA-listed corals and Acropora critical habitat (Attachment 20) 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 the 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 (Reference: JAXBO PDC A2.10.).

32. Within Loggerhead sea turtle critical habitat (Reference: JAXBO PDC A2.15.):

(1) ATONs (pile-supported and anchored buoys) are allowed in nearshore reproductive habitat of the Northwest Atlantic Distinct Population Segment (NWA DPS) of loggerhead sea turtle critical habitat.

(2) No other pile-supported structures are allowed in nearshore reproductive habitat.

Special Conditions for *Derelict vessels*

33. Visual confirmation (e.g., divers, swimmers, and camera) will be completed prior to removal to ensure that the item can be removed without causing further damage to aquatic natural resources.

34. Coral. If an item cannot be removed without causing harm to surrounding coral (ESA listed or non-listed), the item will be disassembled as much as practicable so that it no longer can accidentally harm or trap species.

35. Monofilament debris will be carefully cut loose from coral (ESA listed or non-listed) so as not to cause further harm. Under no circumstance will line be pulled through coral since this could cause breakage of coral.

36. Marine debris removal methods. Marine debris shall be lifted straight up and not be dragged through seagrass beds, coral reefs, coral, or hard bottom habitats. Trawling also cannot be used as a means of marine debris removal. Debris shall be properly disposed of in appropriate facilities in accordance with applicable federal and state requirements.

37. An absorbent blanket or boom shall be immediately deployed on the surface of the water around any derelict vessel to be removed if fuel, oil, or other free-floating pollutants are observed during the work.

Special Conditions for *Scientific Devices*

38. Aquatic Life Passage. The scientific survey device, including any related equipment and anchors, shall not block access of species to an area. For example, the structures shall not prevent movement in or out of a river or channel.

39. Restoring Affected Area. No later than 24 months after initial installation or upon completion of data acquisition, whichever comes first, the measuring device and any other structure or fills associated with that device (e.g., anchors, buoys, lines) must be removed and the site must be restored to pre-construction conditions.

40. Preventing Device Relocation. The scientific survey device, including any related equipment and anchors, shall be inspected and any required maintenance performed at least twice a year and following storm events that may have moved or dislodged the structure to ensure that equipment and anchors are still in place and have not moved to areas containing ESA-listed corals.

General Conditions for All Projects:

1. The time limit for completing the work authorized ends on July 27, 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 enclosed form (Attachment 10) 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.

6. You must allow representatives 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.

Further Information:

1. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

2. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or Construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

3. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

4. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 3 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

5. Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CER 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. 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. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date the enclosed form.

7. 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, relocation or alteration.

Department of the Army Permit Transfer for SPGP VI-R1

PERMITEE: _____

PERMIT NUMBER: _____ DATE: _____

ADDRESS/LOCATION OF PROJECT:

(Subdivision)

(Lot)

(Block)

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 Branch, Post Office Box 4970, Jacksonville, FL 32232-0019.

(Transferee Signature)

(Date)

(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 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 Florida Fish and Wildlife Conservation Commission (FWC) must be used (see MyFWC.com/manatee). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 1/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

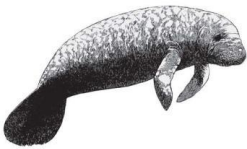
All project vessels

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



**UNITED STATES DEPARTMENT OF
COMMERCE**

**National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE**

Southeast Regional Office
263 13th Avenue South
St. Petersburg, FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.

- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.
- h. Any collision(s) with and/or injuries to any whale, or sturgeon occurring during the construction of a project, shall be reported immediately to NMFS's Protected Resources Division (PRD) at (727-824-5312).
- i. Reports to NMFS's Protected Resources Division (PRD) may be made by email to takereport.nmfsser@noaa.gov.
- j. Sea turtle and marine stranding/rescue organizations' contact information is available by region at <http://www.nmfs.noaa.gov/pr/health/networks.htm>.
- k. Smalltooth sawfish encounters shall be reported to <http://www.flmnh.ufl.edu/fish/sharks/sawfish/sawfishencounters.html>.
- l. All work must occur during daylight hours.



NEW TRULINE SEAWALL & WOOD DOCK

FLORIDA
WATERWAY
ENGINEERING

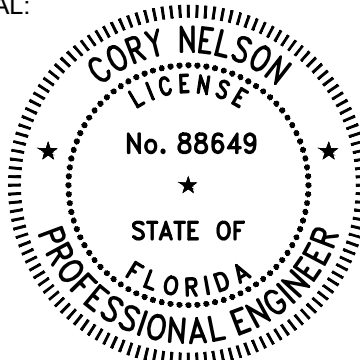


www.floridawaterwayeng.com
Email: info@floridawaterwayeng.com
Phone: (954) 406-6042

PROJECT ADDRESS:
4301 TRANQUILITY DRIVE
HIGHLAND BEACH, FL
PALM BEACH COUNTY

PREPARED FOR:
APH MARINE
CONSTRUCTION

SEAL:



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CORY NELSON ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JOB NO.: 240345D DATE: 15-Nov-24

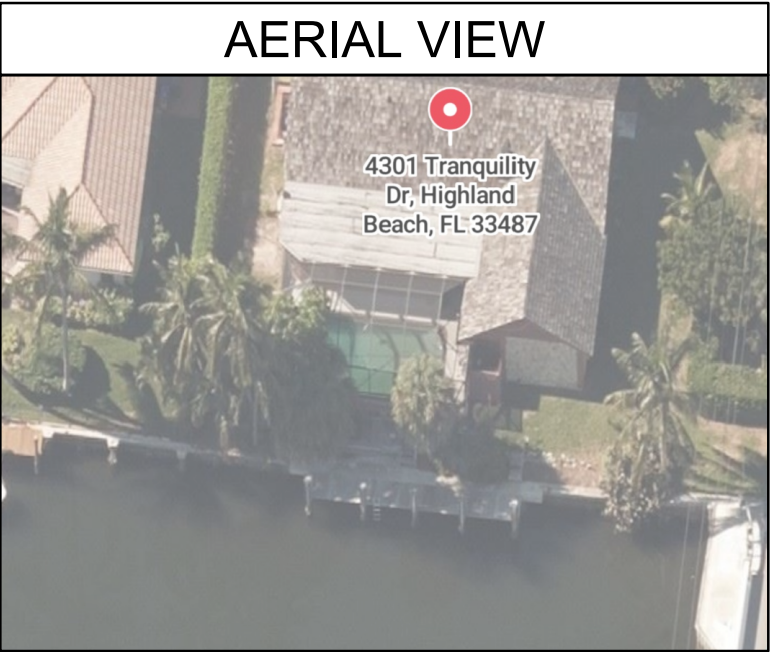
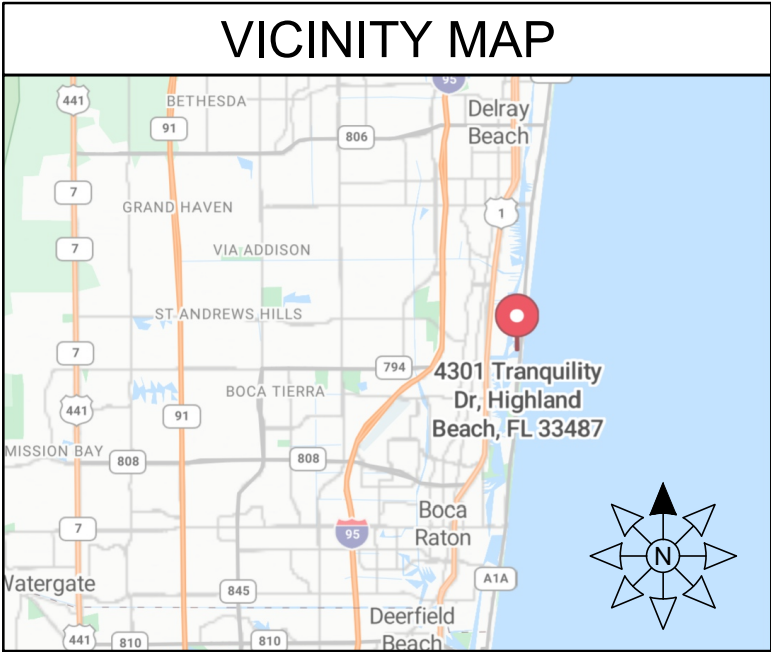
DATE	REV.	DESCRIPTION

SHEET NAME:

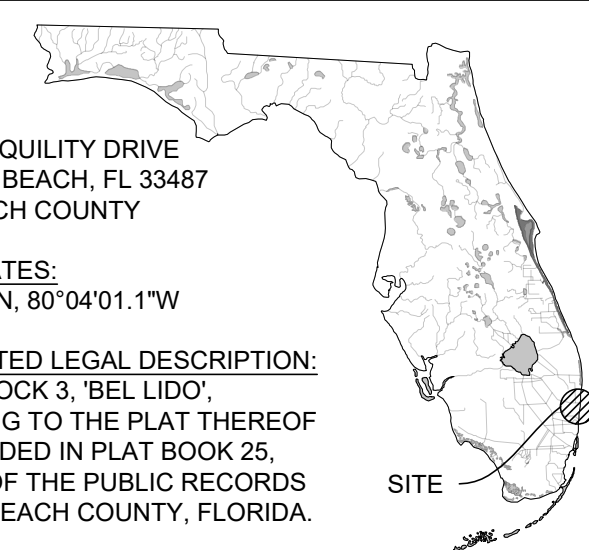
TITLE SHEET

SHEET NO:

S-0



SITE LOCATION



ADDRESS:
4301 TRANQUILITY DRIVE
HIGHLAND BEACH, FL 33487
PALM BEACH COUNTY

COORDINATES:
26°23'57.2"N, 80°04'01.1"W

ABBREVIATED LEGAL DESCRIPTION:
LOT 22, BLOCK 3, 'BEL LIDO',
ACCORDING TO THE PLAT THEREOF
AS RECORDED IN PLAT BOOK 25,
PAGE 97, OF THE PUBLIC RECORDS
OF PALM BEACH COUNTY, FLORIDA.

SCOPE OF WORK

DEMOLITION:

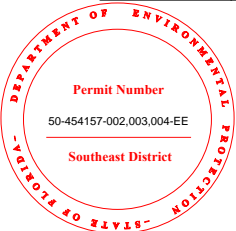
1. REMOVE EXISTING WOOD DOCK.
2. PARTIALLY REMOVE EXISTING SEAWALL CAP & PILES.

NEW CONSTRUCTION:

1. INSTALL NEW 100-FT LONG TRULINE SEAWALL RESTRAINED WITH CONCRETE ANCHOR BLOCKS.
2. CONSTRUCT A NEW 5' WIDE x 40' LONG WOOD DOCK SUPPORTED BY DRIVEN TIMBER PILES.

SHEET INDEX

SHEET	DESCRIPTION
S-0	TITLE SHEET
S-1	GENERAL NOTES
S-2	EXISTING SITE PLAN
S-3	PROPOSED SITE PLAN
S-4	EXISTING SEAWALL & DOCK SECTION
S-5	PROPOSED SEAWALL SECTION
S-6	PILE NOTES & DETAILS
S-7	SEAWALL DETAILS
S-8	SEAWALL DETAILS
S-9	WOOD DOCK FRAME & NOTES
S-10	DOCK SECTION & DETAILS
S-11	PILE DETAILS

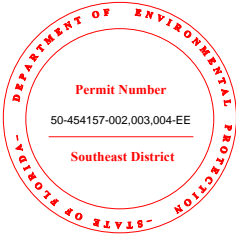


APPLICABLE CODES:

- 1. FLORIDA BUILDING CODE, 8TH EDITION, 2023 (FBC)
- 2. AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2022 (ASCE 7-22)
- 3. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2024 (NDS)
- 4. AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, 2019 (ACI 318-19)
- 5. AMERICAN CONCRETE INSTITUTE, GUIDE FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL CONCRETE REINFORCED WITH FRP BARS, 2015 (ACI 440.1R-15)

DESIGN CRITERIA:

- 1. WIND SPEED CRITERIA:
RISK CATEGORY II
EXPOSURE CATEGORY C
ULTIMATE WIND SPEED 170 MPH
ULTIMATE WIND UPLIFT 55 PSF / 35 PSF (ASD)
- 2. NOAA TIDE DATA:
MEAN HIGH WATER (MHW) +0.36-FT (NAVD 88)
MEAN LOW WATER (MLW) -1.99-FT (NAVD 88)
- 3. LOAD CRITERIA:
DOCK LIVE LOAD 60 PSF
DOCK DEAD LOAD 5 PSF
UPLAND LIVE LOAD SURCHARGE 60 PSF
- 4. GEOTECHNICAL REPORT BY SPECIALTY ENGINEERING CONSULTANTS, INC., DATED MARCH 4, 2024.
ACTIVE WATER PRESSURE ELEVATION MHW
PASSIVE WATER PRESSURE ELEVATION MLW
WEEP HOLES 8'-0" O.C. AT MHW
- 5. TOPOGRAPHICAL AND BOUNDARY SURVEY BY "PHILLIPS SURVEYING & MAPPING", DATED 9/20/2024.
TOP OF EXISTING SEAWALL +2.34 FEET (NAVD 88) / +3.89 (NGVD 29)
TOP OF NEW SEAWALL +6.17 FEET (NAVD 88) / +7.72 (NGVD 29)



GENERAL NOTES:

- 1. TO THE BEST OF OUR KNOWLEDGE, THESE DRAWINGS ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2. ALL ELEVATIONS ON DRAWINGS DEPICTED AS NAVD 88, U.N.O.
- 3. INFORMATION SHOWN ON THE DRAWINGS AS TO THEIR LOCATION AND CHARACTER HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. THE ENGINEER IS NOT LIABLE FOR ANY UNKNOWNNS THAT ARE DISCOVERED DURING CONSTRUCTION.
- 4. ALL EXISTING DIMENSIONS AFFECTING THE WORK SHOWN ON THE DRAWINGS SHALL BE FIELD CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

- 5. DO NOT SCALE THESE DRAWINGS TO OBTAIN DIMENSIONS.
- 6. NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD.
- 7. THESE DRAWINGS DO NOT DEFINE THE TOTAL SCOPE OF CONSTRUCTION CONTRACT DOCUMENTS. REFER TO CONSTRUCTION MANAGER'S CONTRACT DOCUMENTS.
- 8. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION.

DEMOLITION:

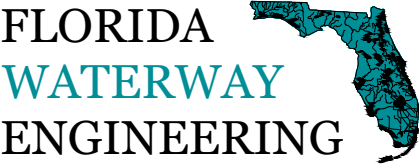
- 1. THE CONTRACTOR SHALL VERIFY ALL UTILITIES WITHIN THE CONSTRUCTION AREA. CALL 811 AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATED TO THE PARTIAL DEMOLITION OF THE EXISTING SEAWALL, INCLUDING SHORING, BRACING, AND PROTECTING THE STABILITY AND INTEGRITY OF EXISTING AND NEW STRUCTURES DURING DEMOLITION AND CONSTRUCTION.
- 3. STABILIZATION OF SOIL DURING DEMOLITION OF EXISTING WALLS AND CONSTRUCTION OF NEW SEAWALL IS REQUIRED. ALL ENGINEERING, DESIGNS AND MEANS AND METHODS OF CONSTRUCTION RELATED TO SOIL STABILIZATION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SHOP DRAWING REVIEW:

- 1. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- 2. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE FOLLOWING ITEMS:
 - 2.1. PRECAST CONCRETE PILES
 - 2.2. CONCRETE MIX DESIGNS, COATINGS, AND SEALING COMPOUNDS
 - 2.3. STEEL PLATE, ANGLE, & ANCHOR RODS
 - 2.4. CONCRETE BAR REINFORCEMENT

TURBIDITY BARRIERS:

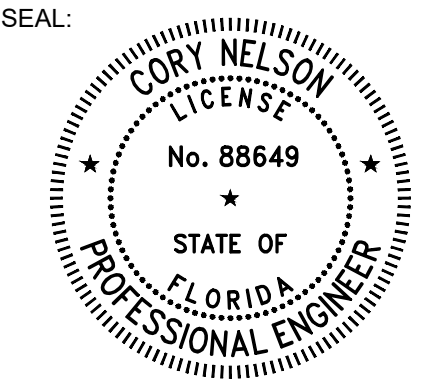
- 1. FLOATING TURBIDITY BARRIERS WILL BE PLACED AT ALL OUTFALL LOCATIONS CONNECTED TO THE WORK AREA DURING ACTIVE CONSTRUCTION. IF SEAGRASSES ARE PRESENT BARRIERS WILL NOT BE PLACED OVER THEM. THE FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED IN A MANNER TO PREVENT MANATEE ENTANGLEMENT.
- 2. USE FLOATING TURBIDITY BARRIERS WITH WEIGHTED SKIRTS EXTENDING TO WITHIN 1 FT OF THE BOTTOM AROUND ALL IN-WATER OR ADJACENT WORK AREAS.
- 3. MARK TURBIDITY BARRIERS WITH THE CONTRACTOR'S COMPANY NAME IN PERMANENT MARKINGS AT LEAST 3 INCHES HIGH ON THE TOP OF THE BARRIER.
- 4. TURBIDITY BARRIERS SHALL REMAIN IN PLACE DURING ALL PHASES OF IN-WATER WORK.
- 5. CONTRACTOR SHALL EMPLOY AND MAINTAIN ADEQUATE SEDIMENT AND EROSION CONTROL MEASURES DURING ALL PHASES OF WORK.



www.floridawaterwayeng.com
Email: info@floridawaterwayeng.com
Phone: (954) 406-6042

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HIGHLAND BEACH, FL
PALM BEACH COUNTY

PREPARED FOR:
APH MARINE
CONSTRUCTION



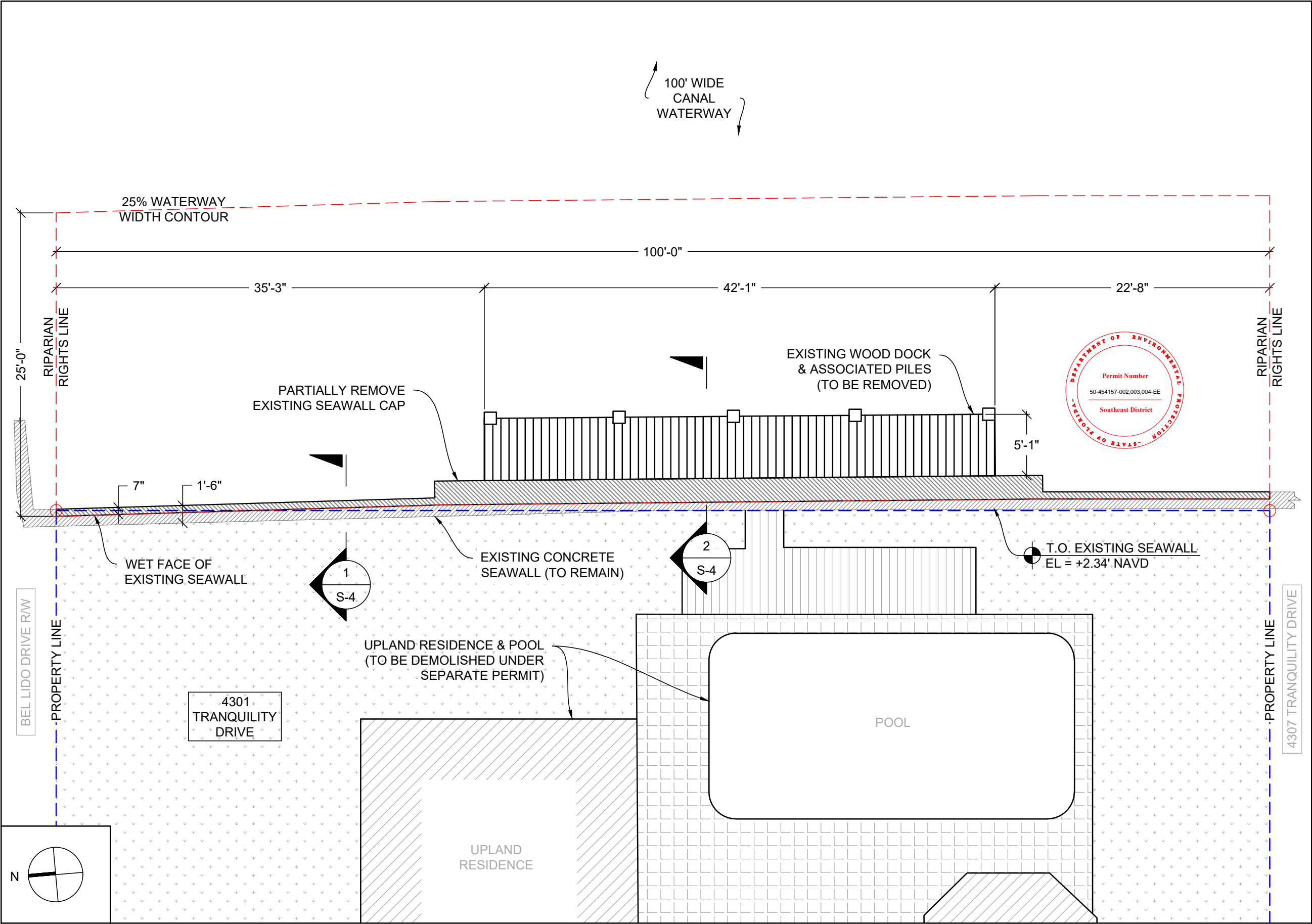
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CORY NELSON ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JOB NO.: 240345D DATE: 15-Nov-24

DATE	REV.	DESCRIPTION

SHEET NAME:
GENERAL
NOTES

SHEET NO:
S-1



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PALM BEACH COUNTY

PREPARED FOR:
APH MARINE
CONSTRUCTION

SEAL:

CORY NELSON
LICENSE
No. 88649
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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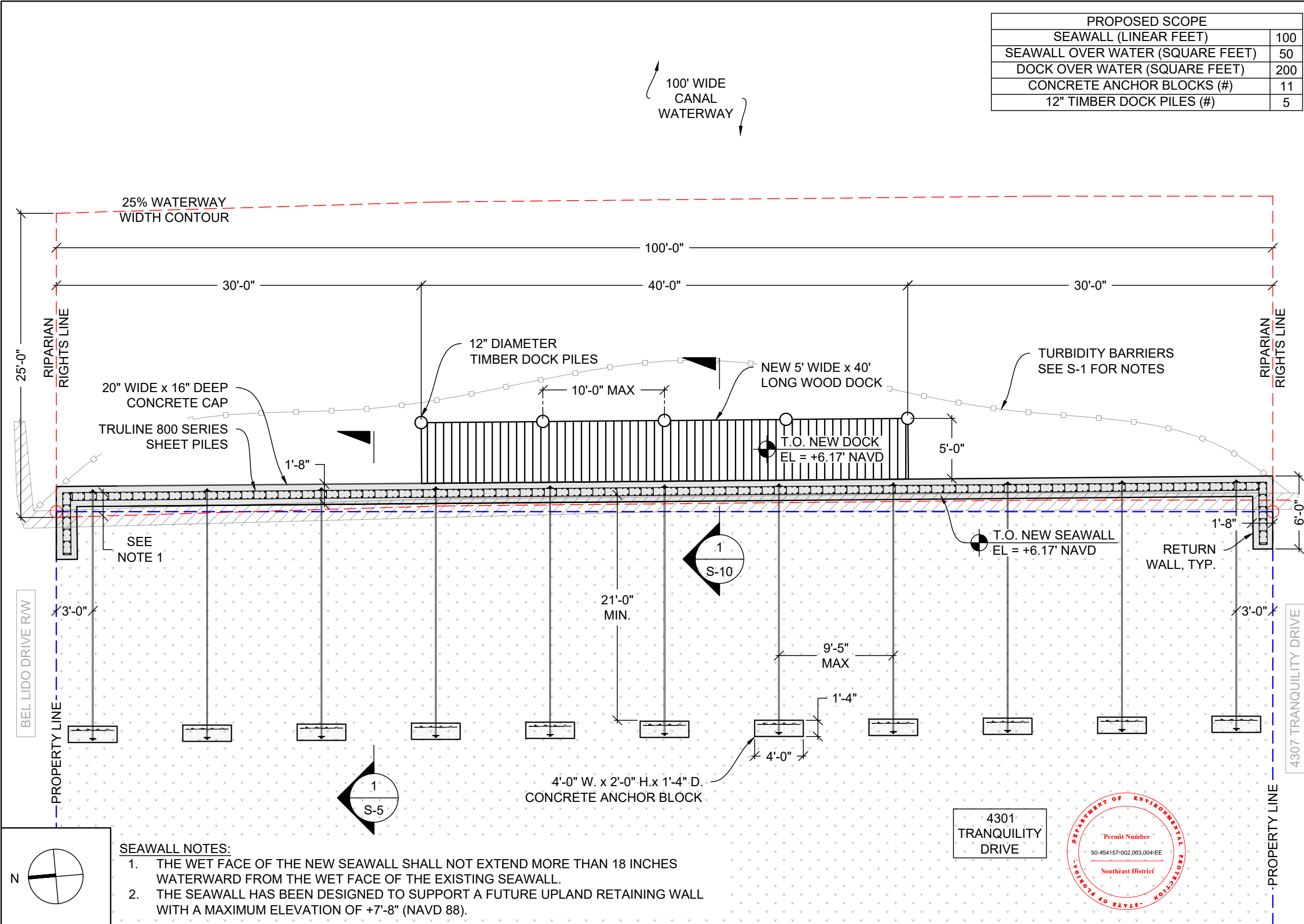
DATE	REV.	DESCRIPTION

SHEET NAME:
EXISTING
SITE PLAN

SHEET NO:
S-2

SCALE:
1/8" = 1'-0"

EXISTING SITE PLAN



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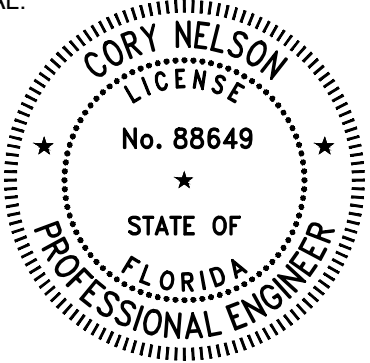


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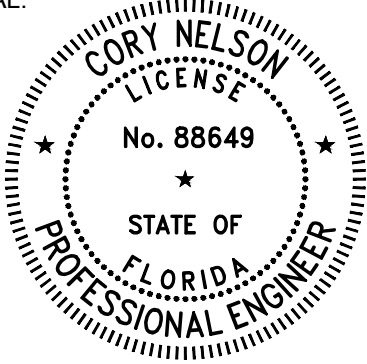
SHEET NAME:
**PROPOSED
SITE PLAN**

SHEET NO:
S-3

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SEAL:



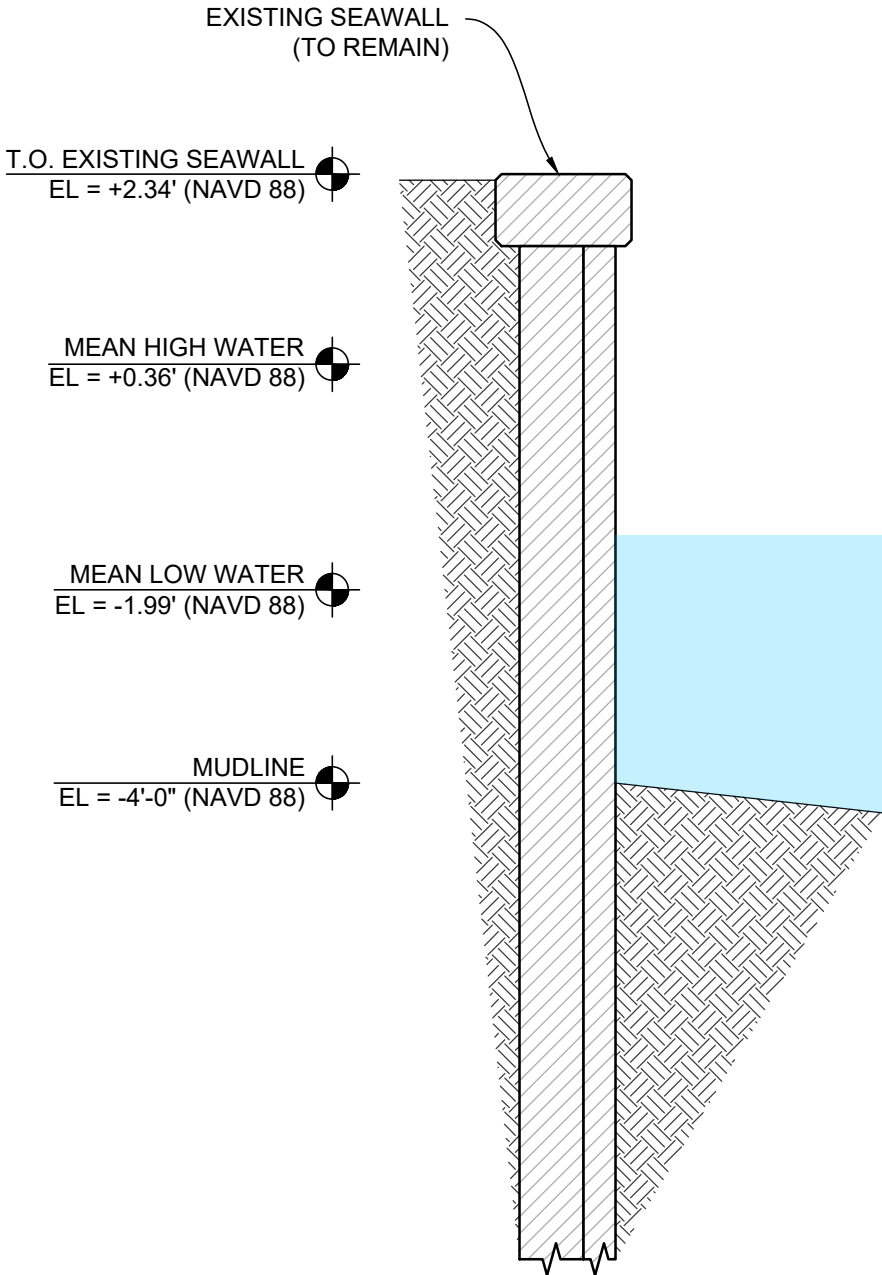
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JOB NO.: 240345D DATE: 15-Nov-24

DATE	REV.	DESCRIPTION

SHEET NAME:
EXISTING DOCK &
SEAWALL SECTION

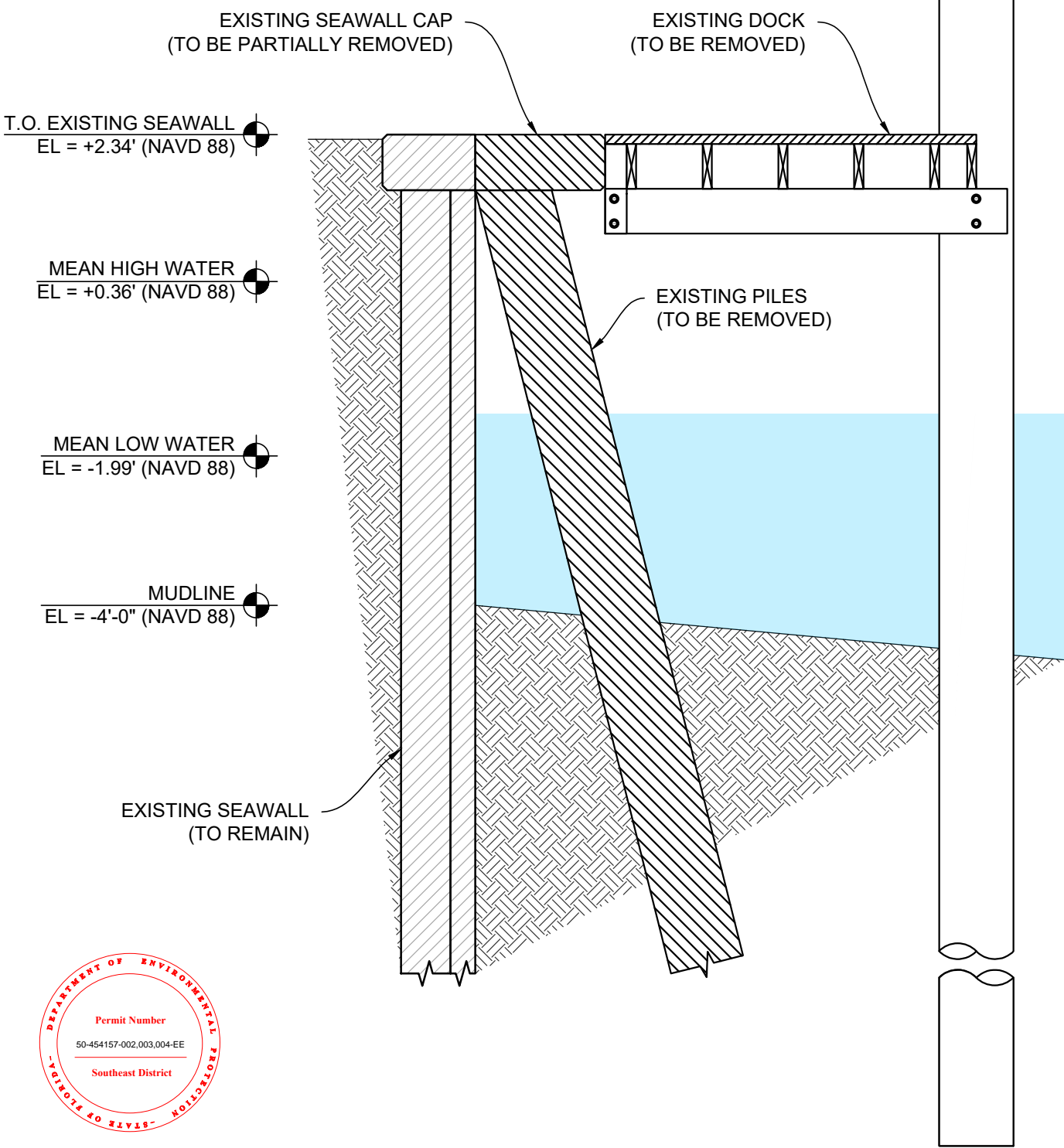
SHEET NO:
S-4



1

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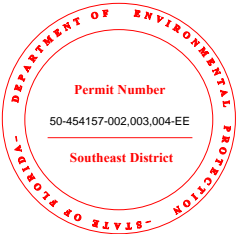
EXISTING SEAWALL

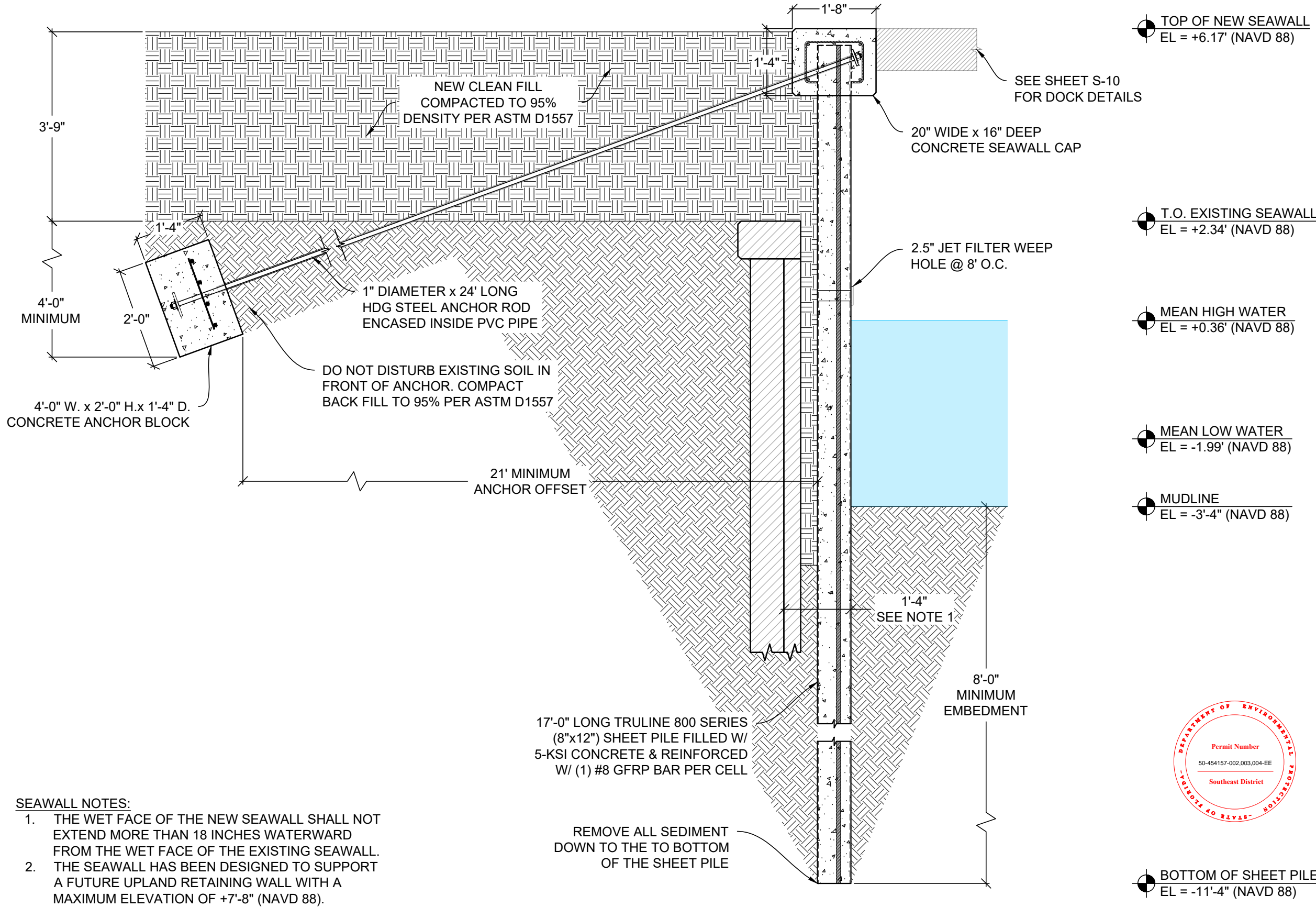


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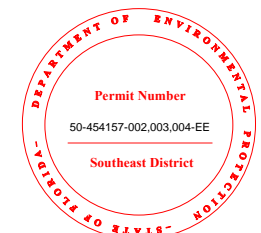
SCALE:
1/2" = 1'-0"

EXISTING SEAWALL & DOCK





- SEAWALL NOTES:**
1. THE WET FACE OF THE NEW SEAWALL SHALL NOT EXTEND MORE THAN 18 INCHES WATERWARD FROM THE WET FACE OF THE EXISTING SEAWALL.
 2. THE SEAWALL HAS BEEN DESIGNED TO SUPPORT A FUTURE UPLAND RETAINING WALL WITH A MAXIMUM ELEVATION OF +7'-8" (NAVD 88).



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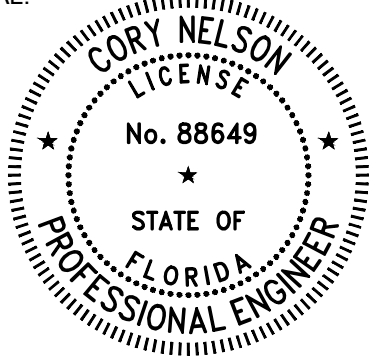


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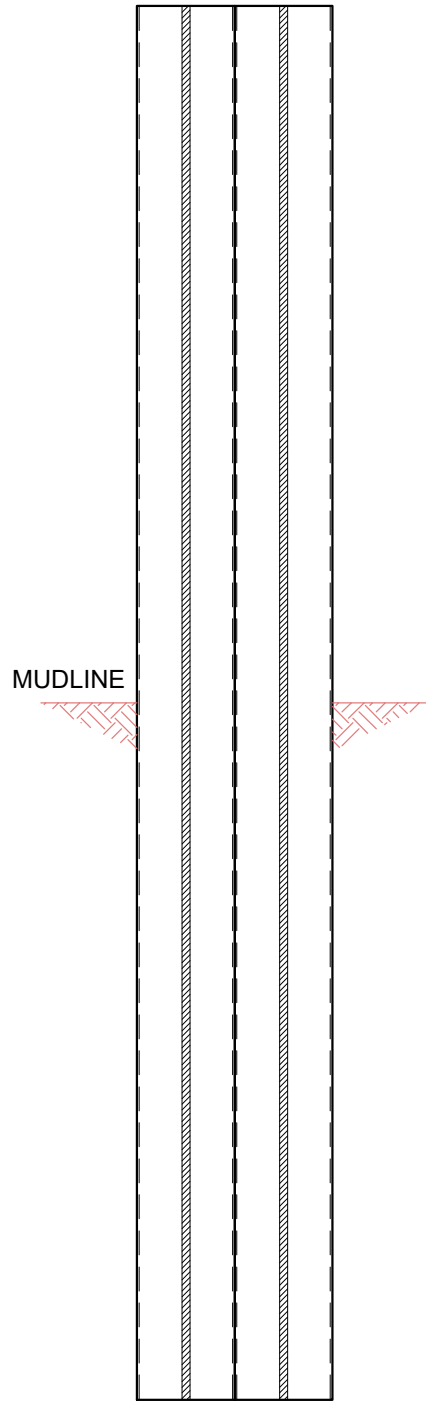


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SHEET NAME:
**PROPOSED
SEAWALL SECTION**

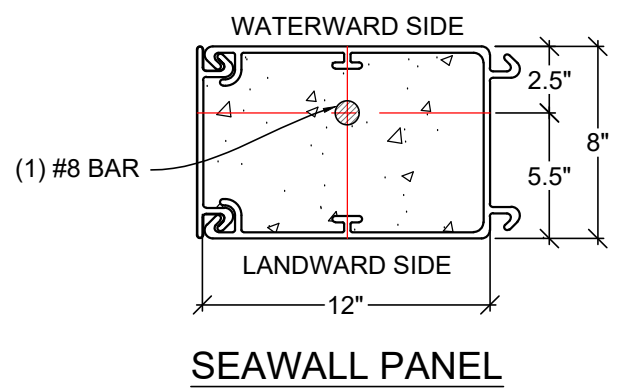
SHEET NO:
S-5



800 SERIES TRULINE
SHEET PILE

SHEET PILE NOTES:

1. EVACUATE ALL SEDIMENT TO THE BOTTOM OF THE SHEET PILE. DE-WATER EACH CELL PRIOR TO POURING AND USE A TREMIE PIPE TO PLACE THE CONCRETE.
2. COMPLETELY FILL EACH CELL WITH 5-KSI CONCRETE AND REINFORCE WITH CONTINUOUS BARS DOWN TO THE PILE TIP.
3. NO BACKFILL SHALL BE PLACED AGAINST WALLS UNLESS THE WALLS ARE ADEQUATELY BRACED.
4. INSTALL VINYL JET FILTER WEEP HOLES EVERY 8'-0" O.C. 6 INCHES ABOVE THE MEAN HIGH WATER LINE.



MATERIAL SPECIFICATIONS:

1. GFRP BAR REINFORCEMENT SHALL HAVE A GUARANTEED MINIMUM TENSILE STRENGTH OF 145 KSI AND A GUARANTEED MODULUS OF ELASTICITY OF 8,702 KSI PER ASTM D7957.
2. GFRP REINFORCEMENT SHALL NOT BE SUBSTITUTED WITH STEEL OR OTHER TYPES OF REINFORCEMENT WITHOUT APPROVAL FROM THE ENGINEER OF RECORD (EOR).
3. CONCRETE SHALL BE NORMAL WEIGHT WITH A MAXIMUM WATER/CEMENT RATIO OF 0.40 AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 5000 P.S.I AT 28 DAYS.

REINFORCEMENT DETAILING:

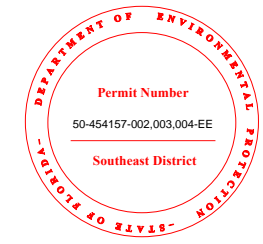
4. ALL REINFORCING SHALL BE SUPPORTED BY AND SECURED TO PLASTIC BOLSTERS. THE USE OF BRICKS OR ROCKS TO SUPPORT REINFORCING IS NOT ACCEPTED.
5. A MINIMUM OF 3" CLEAR CONCRETE COVER IS REQUIRED AROUND ALL REINFORCING.
6. WHERE WALLS, BEAMS, OR FOOTINGS CHANGE DIRECTION, PROVIDE CORNER BARS OF SAME SIZE AND QUANTITY AS THE SPECIFIED STEEL. PROVIDE DOWELS OR LAP SPLICES OF THE APPROPRIATE CLASS TO MAINTAIN CONTINUITY.
7. BAR REINFORCEMENT LAP SPLICE LENGTH SHALL BE A MINIMUM OF 48 TIMES THE BAR DIAMETER U.N.O.

PREPARATION AND PLACEMENT:

8. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR PRIOR TO PLACING CONCRETE TO ALLOW FOR THE INSPECTION OF REINFORCING AND FORM WORK.
9. WET WOOD FORMS IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.
10. CONCRETE TICKETS SHALL BE TIME-STAMPED WHEN BATCHED AND SHALL BE PLACED WITHIN 90 MINUTES FROM BATCH TIME. CONCRETE BATCHES OLDER THAN 90 MINUTES WILL BE REJECTED.
11. CONCRETE SHALL BE PLACED WITH A TREMIE PIPE FOR DROPS GREATER THAN EIGHT FEET. FREE FALL OF CONCRETE GREATER THAN EIGHT FEET IS PROHIBITED.
12. CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND MAINTAINED WITH MINIMAL MOISTURE LOSS FOR THE PERIOD NECESSARY FOR CONCRETE HARDENING.

TESTING REQUIREMENTS:

13. AT THE OWNER'S DISCRETION, SIX (6) CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF AND SHALL BE TESTED AT 3, 7 AND 28 DAYS. SLUMP SHALL NOT EXCEED 5" (±1").



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HIGHLAND BEACH, FL
PALM BEACH COUNTY

PREPARED FOR:

APH MARINE
CONSTRUCTION

SEAL:

A circular professional engineer seal. The outer ring contains the text 'CORY NELSON' and 'LICENSE'. The inner circle contains the text 'No. 88649', 'STATE OF FLORIDA', and 'PROFESSIONAL ENGINEER'.

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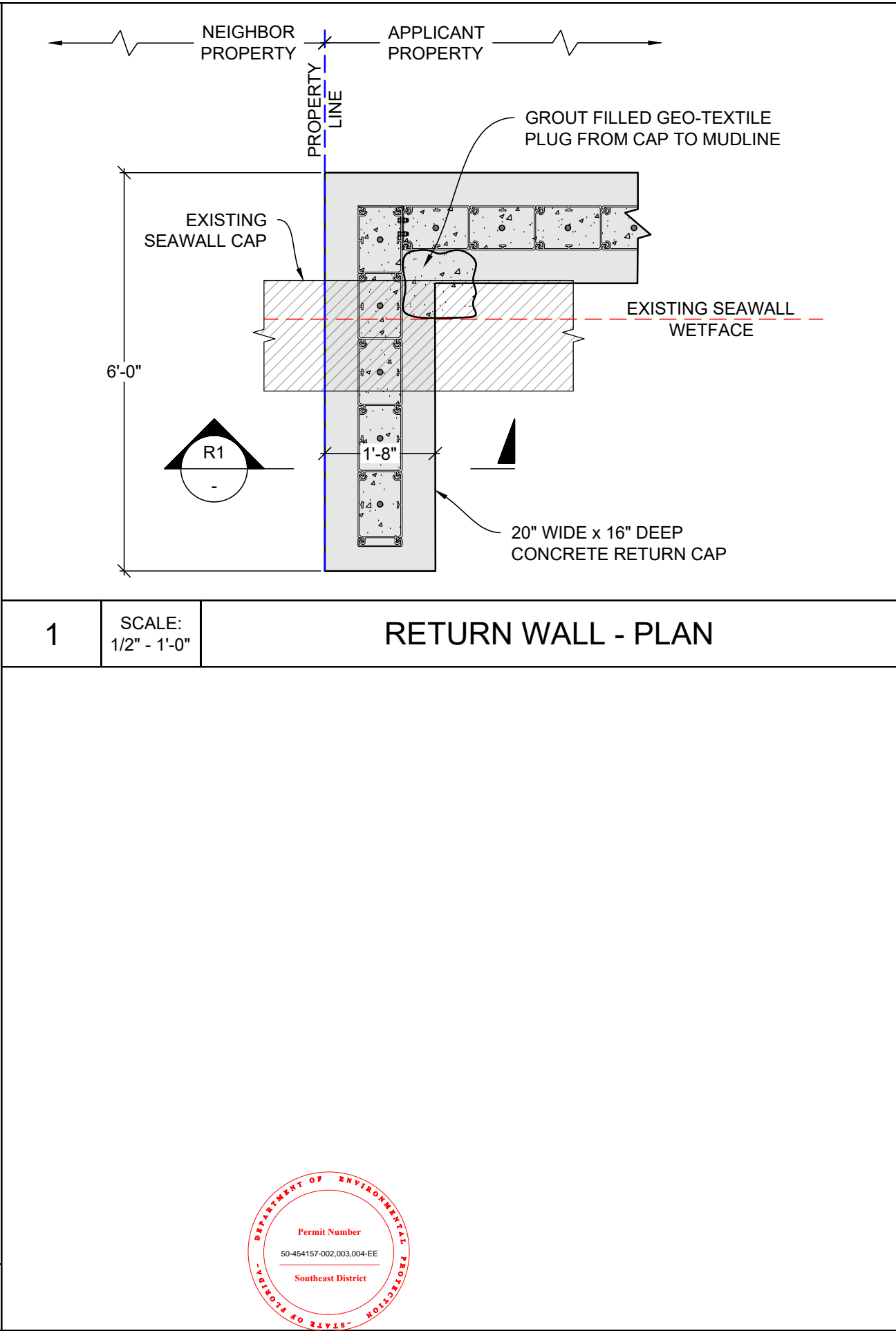
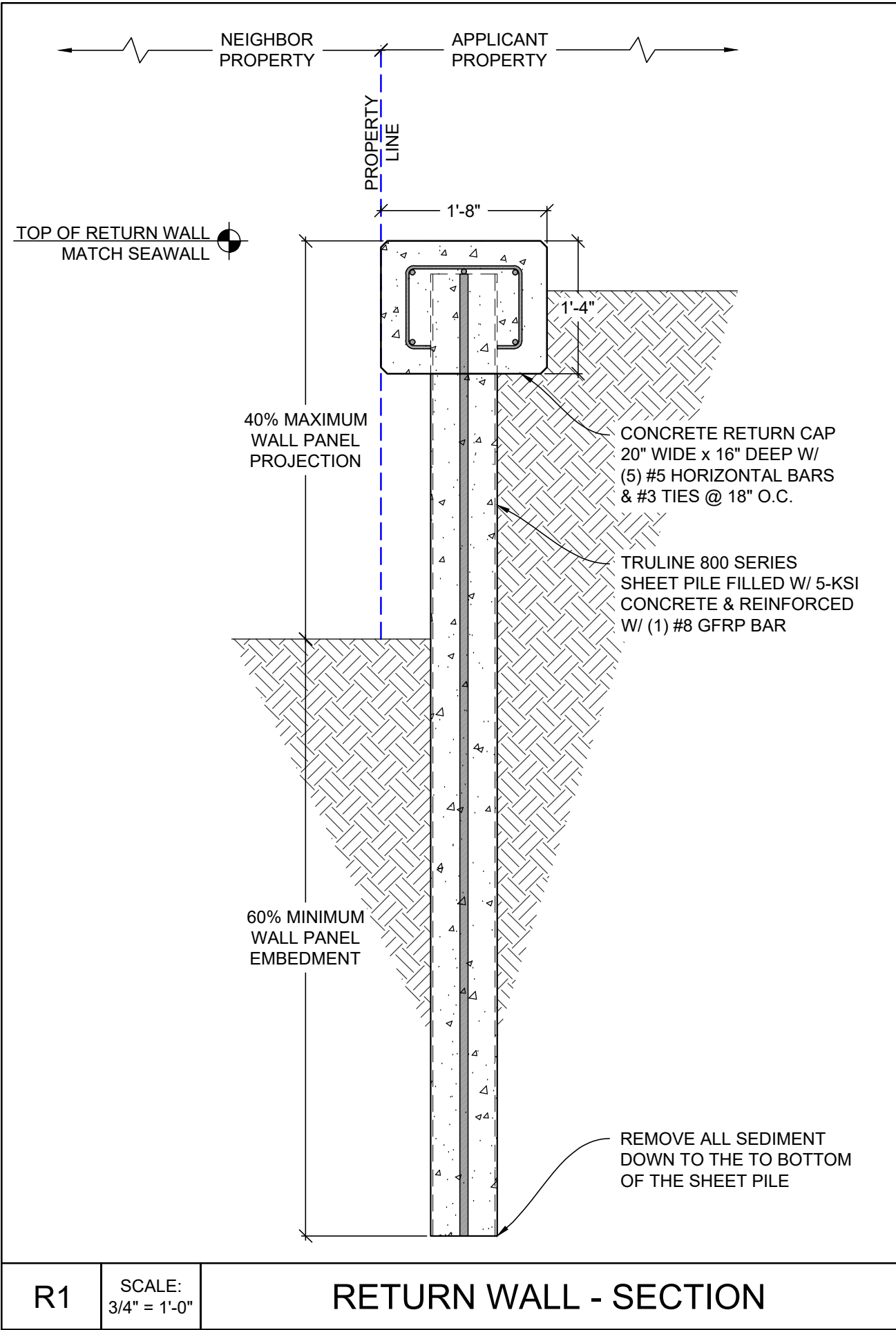
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DATE	REV.	DESCRIPTION

SHEET NAME:

**PILE NOTES &
DETAILS**

SHEET NO:

S-6



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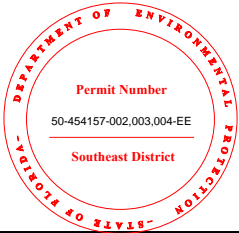
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DATE	REV.	DESCRIPTION

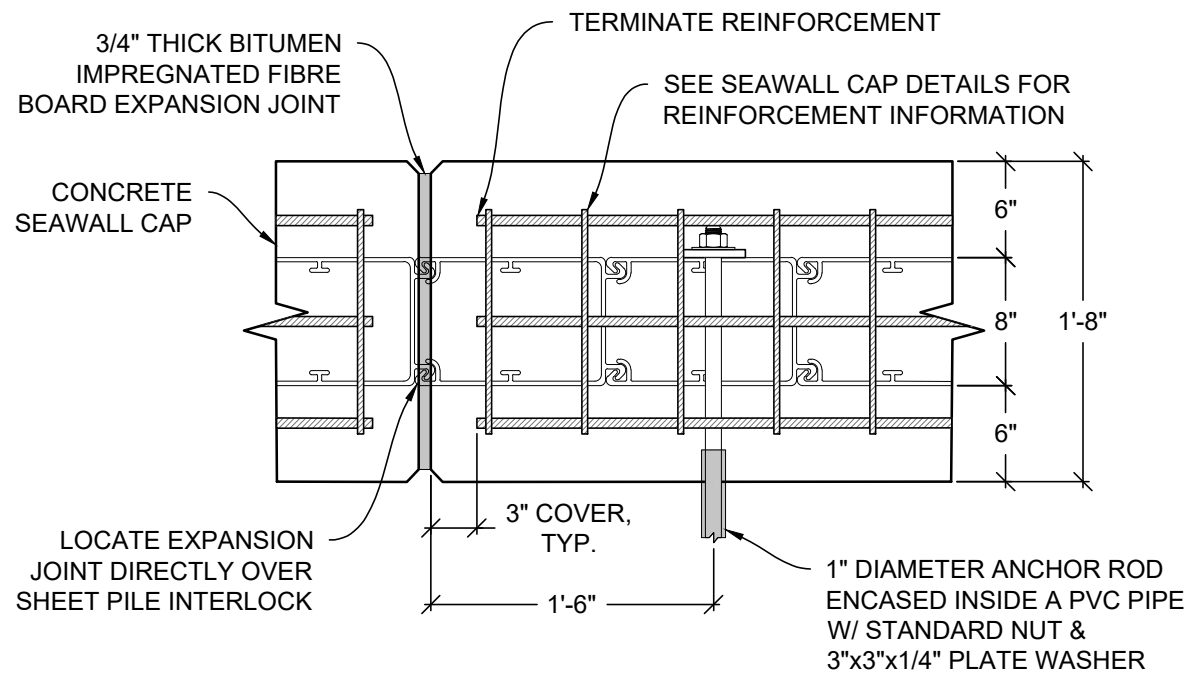
SHEET NAME:

SEAWALL
DETAILS

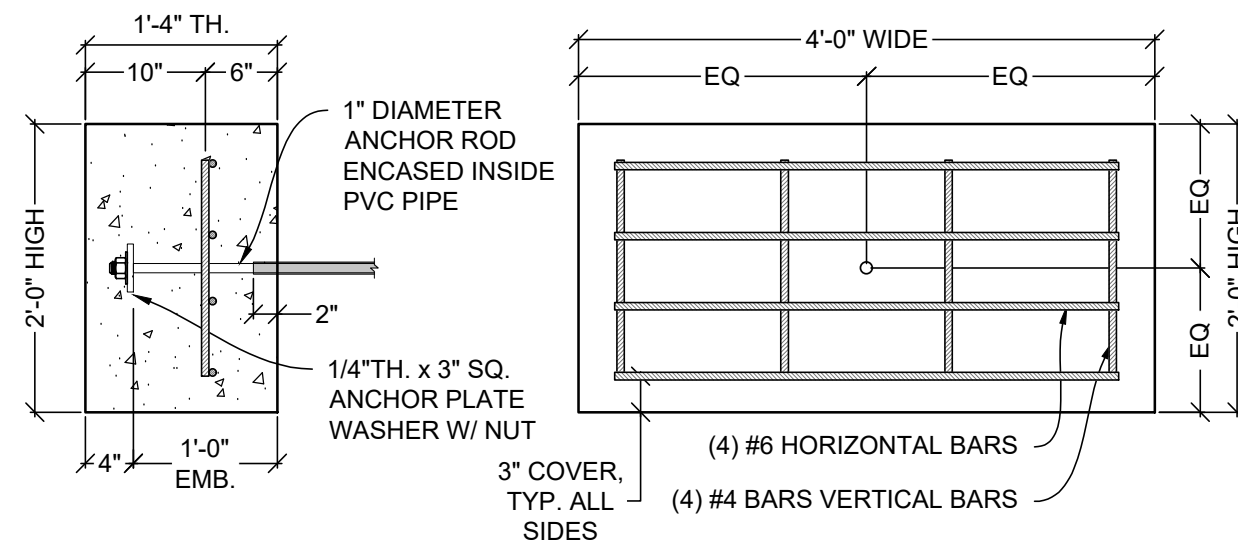
SHEET NO:

S-7





SEAWALL CAP - EXPANSION JOINT



ANCHOR BLOCK

S-8

WOOD NOTES:

1. MATERIALS:

1.1. WOOD FRAMING:

1.2. CONNECTORS:

1.3. FASTENERS:

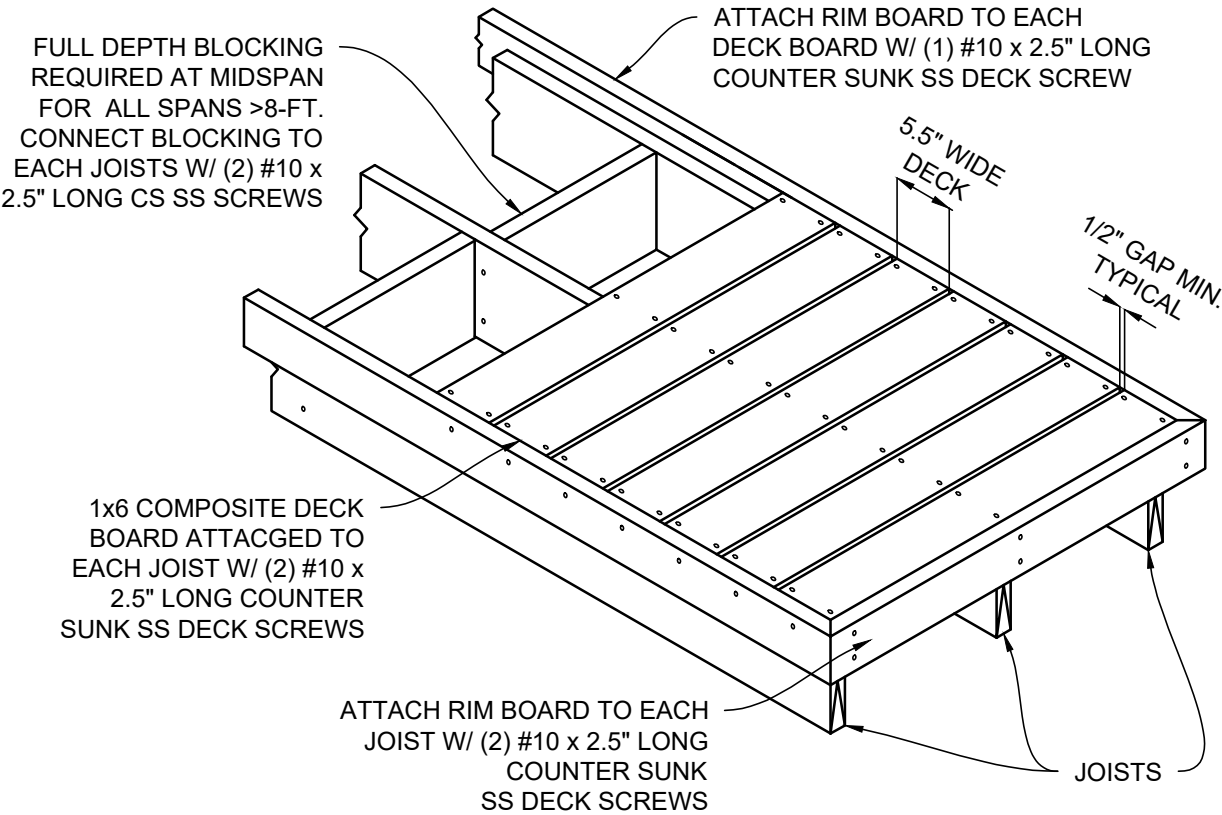
1.4. BOLTS & ANCHORS:

C.C.A. PRESSURE TREATED SOUTHERN PINE NO. 2

SIMPSON 316 STAINLESS STEEL

COUNTERSUNK 316 STAINLESS STEEL

316 STAINLESS STEEL
2. BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED IN MAIN AND SIDE MEMBERS.
3. BOLTS THROUGH WOOD SHALL BE FITTED WITH STANDARD WASHERS AT HEAD AND NUT.
4. LUMBER SIZES SHOWN IN THE DRAWINGS ARE NOMINAL SIZE. ACTUAL SIZES SHALL CONFORM TO AMERICAN LUMBER STANDARD PS-20-99.
5. FRAMING LUMBER SHALL BE SOUND, FREE OF IMPERFECTIONS, THOROUGHLY SEASONED, SURFACED FOUR SIDES, WELL MANUFACTURED AND FREE FROM WARP NOT CORRECTABLE BY BRIDGING, BLOCKING OR NAILING. MOISTURE CONTENT SHALL BE A MAX OF 19 PERCENT.



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STATE OF FLORIDA

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JOB NO.: 240345D DATE: 15-Nov-24

DATE	REV.	DESCRIPTION

SHEET NAME:

DOCK FRAMING &
WOOD NOTES

SHEET NO:

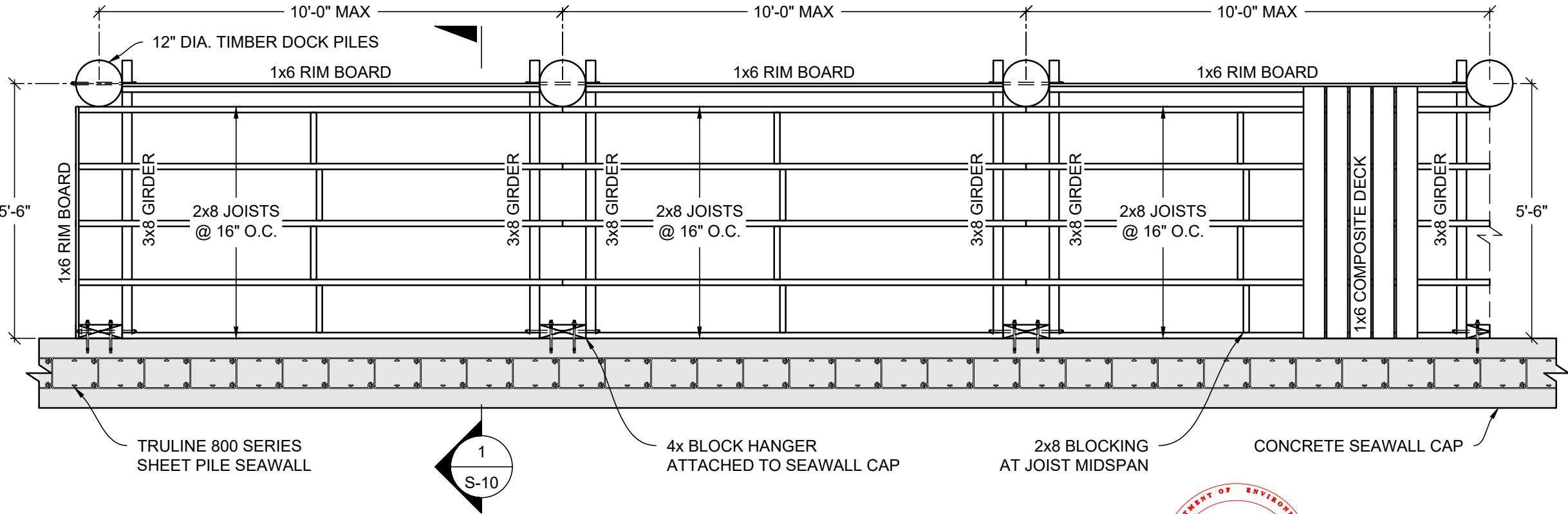
S-9

WOOD NOTES

1

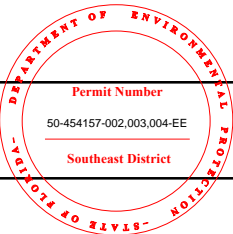
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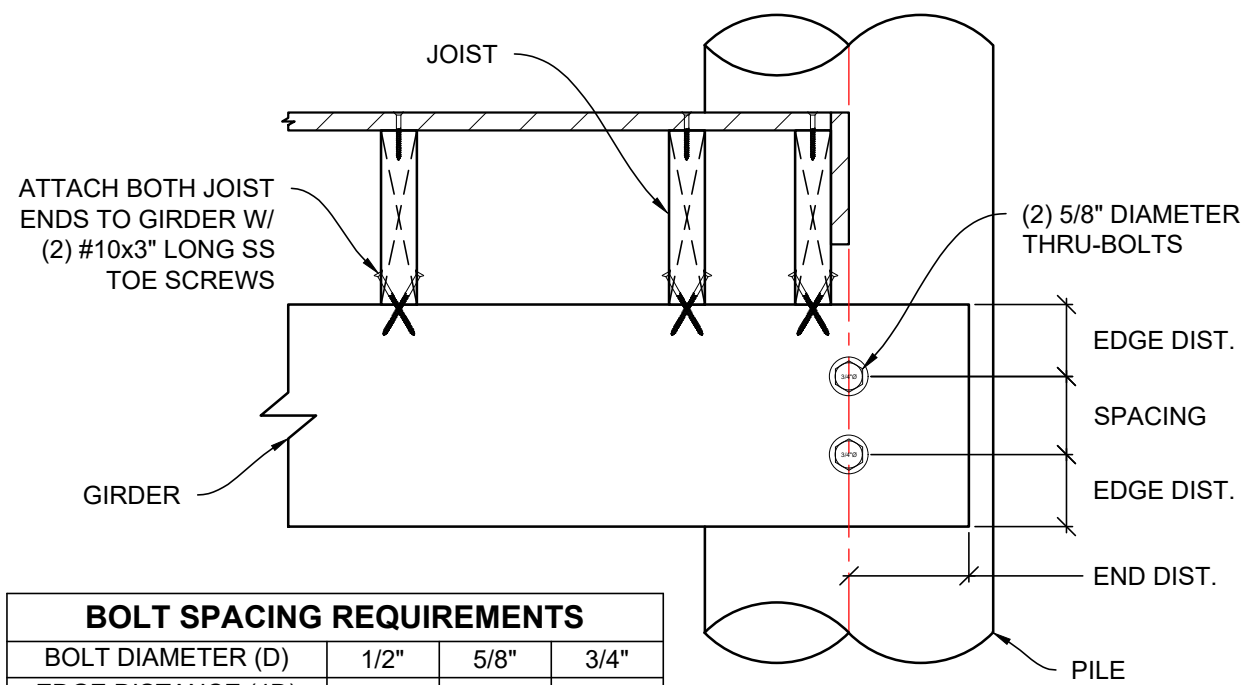
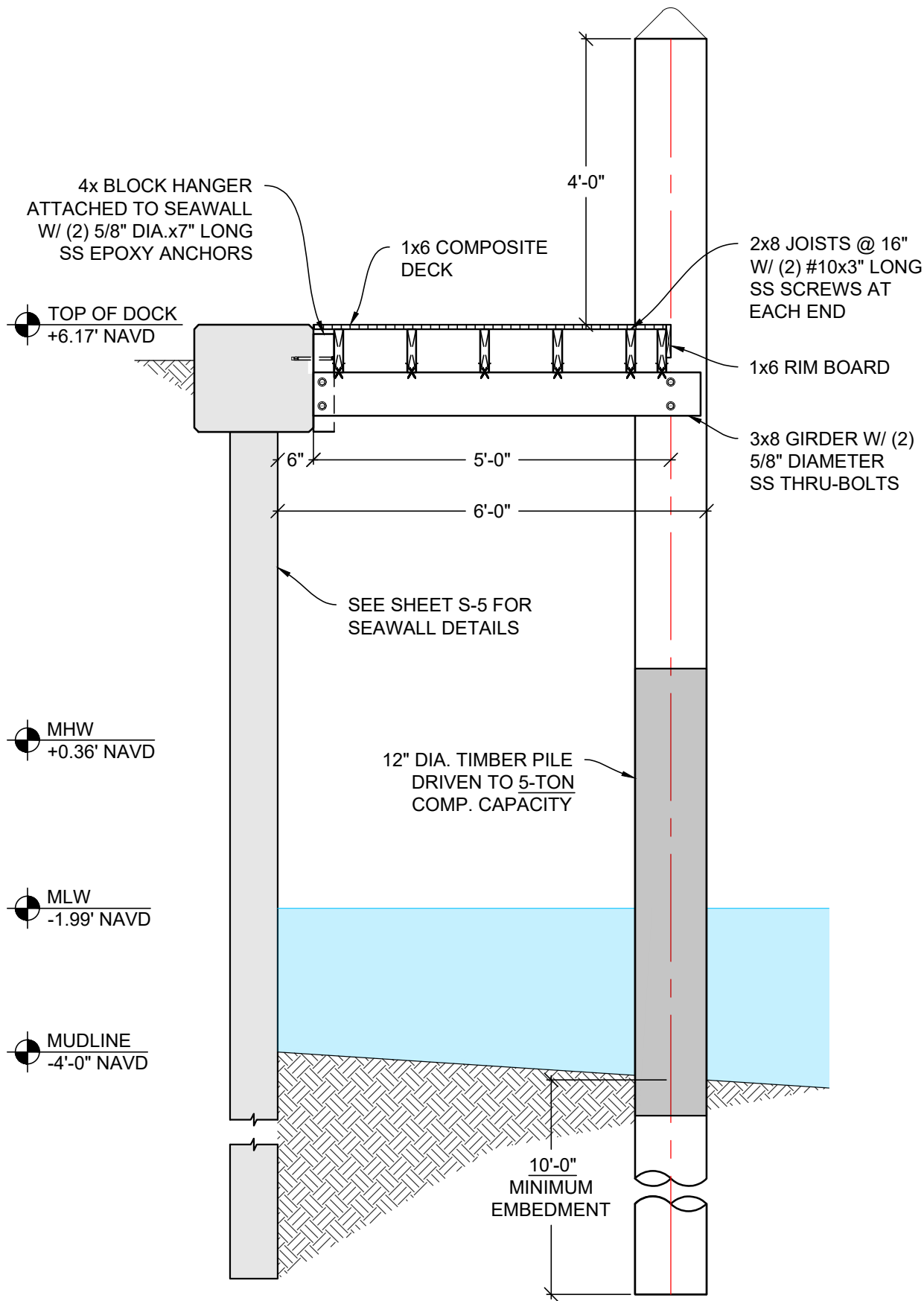
WOOD DECK W/ RIM JOISTS



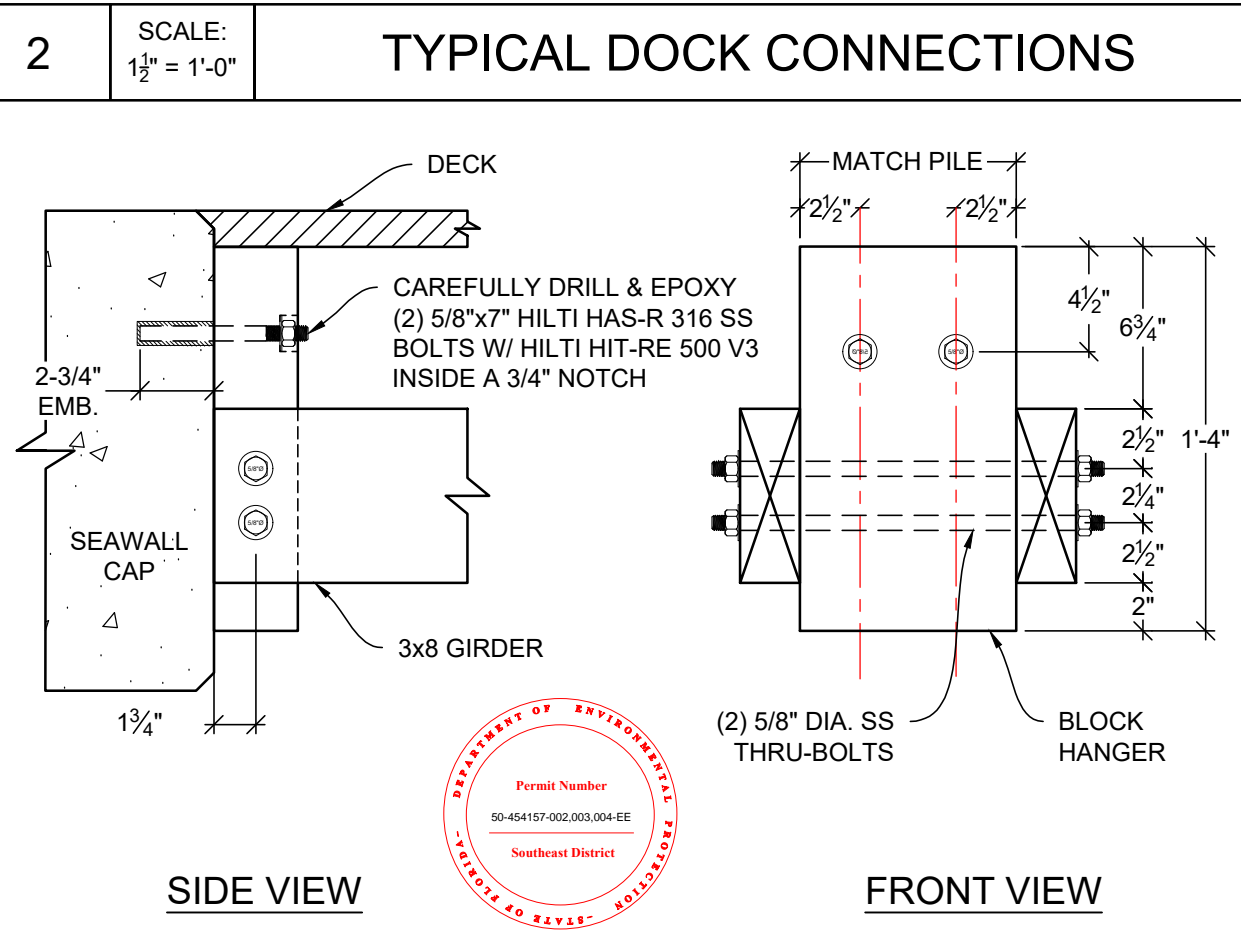
SCALE:
3/8" = 1'-0"

PARTIAL DOCK FRAMING PLAN

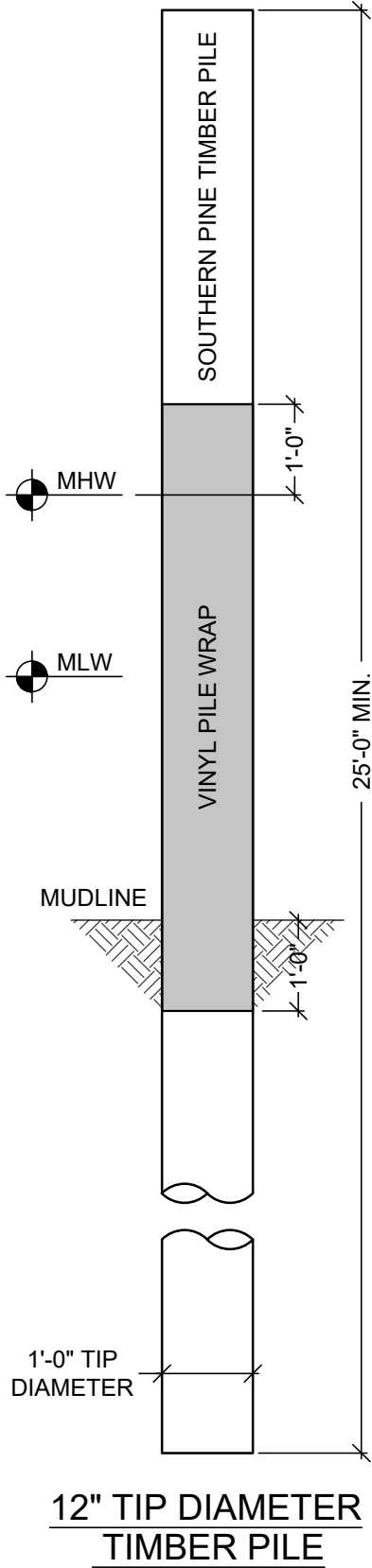




BOLT SPACING REQUIREMENTS			
BOLT DIAMETER (D)	1/2"	5/8"	3/4"
EDGE DISTANCE (4D)	2"	2-1/2"	3"
END DISTANCE (4D)	2"	2-1/2"	3"
BOLT SPACING (4D)	2"	2-1/2"	3"



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TIMBER PILE NOTES:

1. TIMBER PILES SHALL BE SOUTHERN YELLOW PINE (SYP) AND CONFORM TO ASTM D25 REQUIREMENTS.
2. SYP PILES SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) TO A MINIMUM FINAL RETENTION OF 2.5 PCF.
3. OPTIONAL TIMBER PILE VINYL WRAP SHALL BE INSTALLED 1-FT INTO MUDLINE AND 1-FT ABOVE MHW PER MANUFACTURER INSTRUCTIONS.

PILE DRIVING NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR PRIOR TO COMMENCING ANY PILE DRIVING ACTIVITIES.
2. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS FOR EACH PILE DRIVEN, INCLUDING WIDTH, LENGTH, PENETRATION DEPTH, BLOW COUNTS, AND CUT-OFF LENGTHS.
3. PILES SHALL BE DRIVEN WITH A TOLERANCE OF NO MORE THAN 1/4" PER FOOT FROM VERTICAL OR FROM THE SPECIFIED BATTER LINE, WITH THE PILE HEAD POSITION NOT EXCEEDING A 3" DEVIATION FROM THE LOCATION SHOWN ON THE PLANS.
4. CARE MUST BE TAKEN TO AVOID EXCESSIVE VIBRATIONS. VIBRATION LEVELS SHALL BE MONITORED TO ENSURE COMPLIANCE WITH LOCAL REGULATIONS.
5. IN CASES WHERE PILES MUST PENETRATE HARD ROCK LAYERS, THE STRUCTURAL ENGINEER OF RECORD OR SPECIAL INSPECTOR MAY REQUIRE PRE-DRILLED OR PUNCHED HOLES. FINAL PENETRATION SHALL BE ACHIEVED BY DRIVING THE PILES TO THE SPECIFIED TIP ELEVATION.
6. THE PILE DRIVING HAMMER SHALL BE APPROPRIATELY SIZED TO MEET REQUIRED DRIVING RESISTANCE AND ENSURE PROPER PILE INSTALLATION.
7. SUITABLE ANVILS OR CUSHIONS, SELECTED BASED ON PILE SIZE AND MATERIAL, SHALL BE USED TO PREVENT DAMAGE WITHOUT SIGNIFICANTLY ABSORBING HAMMER ENERGY.

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DATE	REV.	DESCRIPTION

SHEET NAME:

PILE DETAILS

SHEET NO:

S-11

