



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
1002 WEST 23RD STREET, SUITE 350
PANAMA CITY, FLORIDA 32405

June 15, 2018

REPLY TO
ATTENTION OF

Regulatory Division
North Permits Branch
Panama City Permits Section
SAJ-2017-02938 (NW-DEB)

Gulf County
c/o Donald Butler
1000 Cecil G. Costin Sr. Boulevard
Port Saint Joe, Florida 32456

Dear Mr. Butler:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on March 26, 2018, the file number SAJ-2017-02938. A review of the information and drawings provided indicates that the proposed work would result in rebuilding an existing public boat ramp and associated finger pier. The proposed boat ramp will be 16 ft. wide and require the excavation of 0.021 ac. of navigable waters. The sides of the boat ramp will be stabilized with a combination of boulder rip rap and approximately 170 ft. of steel sheet pile seawall and retaining wall. The existing finger pier associated with the boat ramp will be demolished and replaced by a new 46 ft. by 6 ft. finger pier. The project is located at the west bank of the Gulf County Canal next to the US Highway 98 Bridge, in Section 1, Township 8 south, Range 11 east Port Saint Joe, Gulf County, Florida.

The shoreline stabilization and boat ramp portions of your project, as depicted on the enclosed drawings, are authorized by Nationwide Permit (NWP) Numbers 3, 13 and 36. In addition, project specific conditions have been enclosed. This verification is valid until **March 18, 2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is:

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

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on

“Nationwide Permits.” These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 3, 13 and 36. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. Reporting Address: The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to the following address:

- a. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, 41 North Jefferson St., Suite 301, Pensacola, FL 32502 .
- b. For electronic mail SAJ-RD-Enforcement@usace.army.mil (not to exceed 10 MB).The Permittee shall reference this permit number, SAJ-2017-02938 (NW - DEB), on all submittals.

2. Commencement Notification: Within 10 days from the date of initiating the work authorized by this permit, the Permittee shall provide a written notification of the date of commencement of authorized work to the Corps.

3. Self-Certification: Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached “Self-Certification Statement of Compliance” form 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.

4. 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, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

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

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

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

- 6. Turbidity controls:** Shall be used throughout construction to control erosion and siltation and ensure that turbidity levels within the project area do not exceed background conditions.
- a. Shall be made of material in which listed species cannot become entangled (i.e., reinforced impermeable polycarbonate vinyl fabric [PVC]), and shall be monitored to ensure listed species are not entangled or trapped in the project area.
 - b. Shall be removed promptly when the work is complete and the water quality in the project area has returned to background conditions.
 - c. Shall not block entry to or exit from designated critical habitat.

7. Eastern Indigo Snake Protection Measures and Inspection: Permittee shall comply with U.S. Fish and Wildlife Service's "Standard Protection Measures for the Eastern Indigo Snake" dated August 12, 2013, as provided in Attachment A of this permit. All gopher tortoise burrows, active or inactive, shall be evacuated prior to site manipulation in the vicinity of the burrow. If excavating potentially occupied burrows, active or inactive, individuals must first obtain state authorization via a Florida Fish and Wildlife Conservation Commission (FWC) Authorized Gopher Tortoise Agent permit. The excavation method selected shall minimize the potential for injury of an indigo snake. The Permittee shall follow the excavation guidance provided in the most current FWC Gopher Tortoise Permitting Guidelines found at <http://myfwc.com/gophertortoise>. If an indigo snake is encountered, the snake must be allowed to vacate the area prior to additional site manipulation in the vicinity. Holes, cavities, and snake refugia other than gopher tortoise burrows shall be inspected each morning before planned site manipulation of a particular area, and if occupied by an indigo snake, no work shall commence until the snake has vacated the vicinity of the proposed work.

8. Manatee Conditions: The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – 2011" (Attachment B).

9. Sea Turtle and Smalltooth Sawfish Conditions: The Permittee shall comply with National Marine Fisheries Service's "Sea Turtle and Smalltooth Sawfish Construction Conditions" dated March 23, 2006, (Attachment C).

10. Species reporting: Any collision(s) with and/or injuries 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 (727-824-5312) or by email to takereport.nmfsser@noaa.gov and CESAJ-ComplyDocs@usace.army.mil. Sea turtle and marine mammal stranding/rescue organizations' contact information is available by region at

<http://www.nmfs.noaa.gov/pr/health/networks.htm>. Smalltooth sawfish encounters shall be reported to <http://www.flmnh.ufl.edu/fish/sharks/sawfish/sawfishencounters.html>.

*Failure to report take of a federally listed threatened or endangered species may lead to suspension, revocation, or modification of this authorization. (From Section 3(18) of the Federal Endangered Species Act: The term 'take' means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.)

11. Project Design Criteria (PDCs) for In-Water Activities: The Permittee shall comply with National Marine Fisheries Service's "PDCs for In-Water Activities" dated November 20, 2017 (Attachment D).

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

13. PDCs for In-Water Noise from Pile and Sheet Pile Installation: The maximum number of piles installed per day is limited to no more than 10 piles per day.

14. Educational Signs: signs must be posted in a visible location(s), alerting users of listed species in the area susceptible to vessel strikes and hook-and-line captures. The most current version of the signs that must be downloaded and sign installation guidance are available at:

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

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.

15. Monofilament Recycling Bins: 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:

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

16. 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.

17. Restrictions on Pile Instillation Methods: The metal sheet piles authorized by this permit will not be installed using an impact hammer.

This letter of authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. Prior to the initiation of any construction, projects qualifying for this Nationwide permit must qualify for an exemption under section 403.813(1), Florida Statutes or 373.406, Florida Statutes, or otherwise be authorized by the applicable permit required under Part IV of Chapter 373, Florida Statutes, by the Department of Environmental Protection, a water management district under section 373.069, Florida Statutes, or a local government with delegated authority under section 373.441, Florida Statutes, and receive Water Quality Certification and applicable Coastal Zone Consistency Concurrence or waiver thereto, as well as any authorizations required for the use of state-owned submerged lands under Chapter 253, Florida Statutes, and, as applicable, Chapter 258, Florida Statutes. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This letter of authorization does not include conditions that would prevent the 'take' of a state-listed fish or wildlife species. These species are protected under sec. 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.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 850-763-0717 ex. 22.

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

Sincerely,

David Bishof
Project Manager

Enclosures

Copy Furnished: Robert H. Davis, Dewberry|Preble Rish, 502 East Park Avenue,
Tallahassee, Florida 32301

bcc:
CESAJ-RD-PE

GENERAL CONDITIONS
33 CFR PART 320-330

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

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: SAJ-2017-02938 (NW-DEB)

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

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

(TRANSFEREE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT) **(BLOCK)**

(NAME-PRINTED)

(STREET ADDRESS)

(MAILING ADDRESS)

(CITY, STATE, ZIP CODE)

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: SAJ-2017-02938

Permittee's Name & Address (please print or type): _____

Telephone Number: _____

Location of the Work: _____

Date Work Started: _____ Date Work Completed: _____

PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES _____ NO _____

TO SCHEDULE AN INSPECTION PLEASE CONTACT _____
AT _____

Description of the Work (e.g. bank stabilization, residential or commercial filling, docks,
dredging,
etc.): _____

Acreage or Square Feet of Impacts to Waters of the United States: _____

Describe Mitigation completed (if applicable): _____

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

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

Signature of Permittee

Date

Attachment A

Standard Protection Measures for the Eastern Indigo Snake

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE
U.S. Fish and Wildlife Service
August 12, 2013

The eastern indigo snake protection/education plan (Plan) below has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least **30 days prior** to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented as described below (North Florida Field Office: jaxregs@fws.gov; South Florida Field Office: verobeach@fws.gov; Panama City Field Office: panamacity@fws.gov). As long as the signatory of the e-mail certifies compliance with the below Plan (including use of the attached poster and brochure), no further written confirmation or “approval” from the USFWS is needed and the applicant may move forward with the project.

If the applicant decides to use an eastern indigo snake protection/education plan other than the approved Plan below, written confirmation or “approval” from the USFWS that the plan is adequate must be obtained. At least 30 days prior to any clearing/land alteration activities, the applicant shall submit their unique plan for review and approval. The USFWS will respond via e-mail, typically within 30 days of receiving the plan, either concurring that the plan is adequate or requesting additional information. A concurrence e-mail from the appropriate USFWS Field Office will fulfill approval requirements.

The Plan materials should consist of: 1) a combination of posters and pamphlets (see **Poster Information** section below); and 2) verbal educational instructions to construction personnel by supervisory or management personnel before any clearing/land alteration activities are initiated (see **Pre-Construction Activities** and **During Construction Activities** sections below).

POSTER INFORMATION

Posters with the following information shall be placed at strategic locations on the construction site and along any proposed access roads (a final poster for Plan compliance, to be printed on 11” x 17” or larger paper and laminated, is attached):

DESCRIPTION: The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

SIMILAR SNAKES: The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

LIFE HISTORY: The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands

and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

PROTECTION UNDER FEDERAL AND STATE LAW: The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. “Taking” of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. “Take” is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of \$25,000 for civil violations and up to \$50,000 and/or imprisonment for criminal offenses, if convicted.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

IF YOU SEE A LIVE EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and allow the live eastern indigo snake sufficient time to move away from the site without interference;
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant’s designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

IF YOU SEE A DEAD EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and immediately notify supervisor or the applicant’s designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

Telephone numbers of USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:

North Florida Field Office – (904) 731-3336
Panama City Field Office – (850) 769-0552
South Florida Field Office – (772) 562-3909

PRE-CONSTRUCTION ACTIVITIES

1. The applicant or designated agent will post educational posters in the construction office and throughout the construction site, including any access roads. The posters must be clearly visible to all construction staff. A sample poster is attached.
2. Prior to the onset of construction activities, the applicant/designated agent will conduct a meeting with all construction staff (annually for multi-year projects) to discuss identification of the snake, its protected status, what to do if a snake is observed within the project area, and applicable penalties that may be imposed if state and/or federal regulations are violated. An educational brochure including color photographs of the snake will be given to each staff member in attendance and additional copies will be provided to the construction superintendent to make available in the onsite construction office (a final brochure for Plan compliance, to be printed double-sided on 8.5" x 11" paper and then properly folded, is attached). Photos of eastern indigo snakes may be accessed on USFWS and/or FWC websites.
3. Construction staff will be informed that in the event that an eastern indigo snake (live or dead) is observed on the project site during construction activities, all such activities are to cease until the established procedures are implemented according to the Plan, which includes notification of the appropriate USFWS Field Office. The contact information for the USFWS is provided on the referenced posters and brochures.

DURING CONSTRUCTION ACTIVITIES

1. During initial site clearing activities, an onsite observer may be utilized to determine whether habitat conditions suggest a reasonable probability of an eastern indigo snake sighting (example: discovery of snake sheds, tracks, lots of refugia and cavities present in the area of clearing activities, and presence of gopher tortoises and burrows).
2. If an eastern indigo snake is discovered during gopher tortoise relocation activities (i.e. burrow excavation), the USFWS shall be contacted within one business day to obtain further guidance which may result in further project consultation.
3. Periodically during construction activities, the applicant's designated agent should visit the project area to observe the condition of the posters and Plan materials, and replace them as needed. Construction personnel should be reminded of the instructions (above) as to what is expected if any eastern indigo snakes are seen.

POST CONSTRUCTION ACTIVITIES

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.

Attachment B

Standard Manatee Conditions for In-Water Work

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

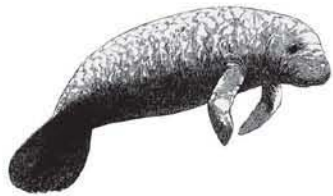
All project vessels

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

Attachment C

Sea Turtle and Smalltooth Sawfish Construction Conditions



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southeast Regional Office
263 13th Avenue South
St. Petersburg, FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

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

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006

O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc



Attachment D

Project Design Criteria for In-Water Activities

**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.

Attachment E

Approved Plans

ABBREVIATIONS

A.F.F. ABOVE FINISHED FLOOR
 A.H.U. AIR HANDLING UNIT
 ALUM. ALUMINUM
 ALT. ALTERNATE
 APPROX. APPROXIMATE
 BR. BOARD
 BLDG. BUILDING
 BLC. BLOCK
 BLKG. BLOCKING
 BULT. BUILT
 BRCK. BRICK
 BRKR. BREAKER
 BSMT. BASEMENT
 C.J. CONTROL JOINT
 CLG. CEILING
 CLR. CLEAR
 CMU CONCRETE MASONRY UNIT
 CONC. CONCRETE
 COP. COPPER
 CU. FT. CUBIC FOOT
 CU. IN. CUBIC INCH
 CU. YD. CUBIC YARD
 DIA. DIAMETER
 DBL. DOUBLE
 DBT. DRY-BULB TEMPERATURE
 DEGR. DEGREE
 DEPT. DEPARTMENT
 DR. DRINKING FOUNTAIN
 DISC. DISCONNECT
 DL. DEAD LOAD
 DN. DOWN
 D.S. DOWN SPOUT
 DWG. DRAWING
 E.F. EXHAUST FAN
 EXH. EXHAUST
 EXP. JT. EXPANSION JOINT
 EXT. EXTERIOR
 FIN. FINISH
 FL. FLOOR
 FLUOR. FLUORESCENT
 FP. FIREPLACE
 FR. FIRE RATING
 FT. FOOT/FEET
 FTG. FOOTING
 GALV. GALVANIZED
 GR. GROUND FLOOR
 GFI GROUND FAULT
 CIRCUIT INTERRUPT
 GOVT. GOVERNMENT
 GR.FL. GROUND FLOOR
 GYP. GYPSUM
 H.C. HOLLOW CORE
 H.D.G. HOT DIPPED GALVANIZED
 HDR. HEADER
 HDR. HARDWARE
 H.P. HORSEPOWER
 HT. HEIGHT
 HTR. HEATER
 HV. HIGH VOLTAGE
 H.V.C. HEATING, VENTILATING
 AND AIR CONDITIONING
 HWY. HIGHWAY
 ID. INSIDE DIAMETER
 IN. INCH
 INCAND. INCANDESCENT
 INCL. INCLUDED
 INSUL. INSULATION
 INT. INTERIOR
 INV. EL. INVERT ELEVATION
 JST. JOIST
 KD. KILN DRIED
 KW. KILOWATT
 KWH. KILOWATT HOUR
 LAM. LAMINATED
 LAB. LABORATORY
 LB. POUND
 LIG. LIGHTING
 LGTH. LENGTH
 LIN. LINEAR
 LL. LIVE LOAD
 MANUF. MANUFACTURE
 MAX. MAXIMUM
 MF. MILL FINISH
 MIN. MINIMUM
 MLDG. MOLDING
 MHW. MEAN HIGH WATER
 MHHW. MEAN HIGHER HIGH WATER
 MLW. MEAN LOWER LOW WATER
 MSL. MEAN SEA LEVEL
 MOD. MODIFICATION
 NTS. NOT TO SCALE
 NO./# NUMBER
 DA. OVERALL
 O.C. ON CENTER
 O.D. OUTSIDE DIAMETER
 OFC. OFFICE
 OVAL OVAL HEAD
 OPP. OPPOSITE
 PARTN. PARTITION
 PC. PORTLAND CEMENT
 P.C.F. POUNDS PER CUBIC FOOT
 P.E. PROFESSIONAL ENGINEER
 PERP. PERPENDICULAR
 PERP. PLATE
 PLG. PLUNG
 PLYWD. PLYWOOD
 PNL. PANEL
 PREFAB. PREFABRICATED
 PRELIM. PRELIMINARY
 P.S.F. POUNDS PER SQUARE FOOT
 P.T. POUNDS PER SQUARE INCH
 P.T. PRESURE TREATED
 QS. QUARTER SAWN
 R. RADIUS
 RCPT. RECEPTACLE
 REINBAR. REINFORCING BAR
 REFRIG. REFRIGERATION
 REINF. REINFORCING
 RIG. RIGGING
 RGR. ROUGH
 RM. ROOM
 R.O. ROUGH OPENING
 RS. ROUGH SAWN
 S.C. SOLID CORE
 SCH. SCHEDULE
 SDG. SIDING
 SECT. SECTION
 SFTWD. SOFTWOOD
 SGR. SLIDING GLASS DOOR
 SH. SHINGLES
 SPEC. SPECIFICATION
 SPR. SPRUCE
 SQ. FT. SQUARE FOOT
 SQ. IN. SQUARE INCH
 SQ. YD. SQUARE YARD
 SS. STAINLESS STEEL
 STL. STEEL
 SUB. FL. SUBFLOOR
 SUP. SUPPLY
 SW. SWITCH
 SYM. SYMMETRICAL
 S.Y.P. SOUTHERN YELLOW PINE
 SYS. SYSTEM
 S4S. SURFACED FOUR SIDES
 TEL. TELEPHONE
 T&G. TONGUE-AND-GROOVE
 TYP. TYPICAL
 U.E. UNDERGROUND ELECTRIC
 U.G. UNDER GROUND
 UL. UNDERWRITERS
 LABORATORIES, INC.
 V. VOLT
 VENT. VENTILATOR
 VERT. VERTICAL
 VF. VERIFY IN FIELD
 VOL. VOLUME
 VP. VENT PIPE
 VIR. VENT THRU ROOF
 W. WATER
 WBT. WET BULB TEMPERATURE
 WC. WATER CLOSET
 WD. WOOD
 WP. WATERPROOF
 WWF. WELDED WIRE FABRIC
 YD. YARD



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DEPARTMENT of ENVIRONMENTAL PROTECTION BUREAU of DESIGN and CONSTRUCTION

GULF COUNTY, FLORIDA

HIGHLAND VIEW BOAT RAMP IMPROVEMENT

FDEP PROJECT # N2004
 PRI PROJECT # 003.275

APPLICABLE CODES AND DESIGN DATA

CODE LIST

FLORIDA BUILDING CODE, BUILDING (FBC-B)..... 2014 Edition
 FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)..... 2014 Edition
 FLORIDA BUILDING CODE, MECHANICAL (FBC-M)..... 2014 Edition
 FLORIDA BUILDING CODE, PLUMBING (FBC-P)..... 2014 Edition
 FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)..... 2014 Edition
 FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R)..... 2014 Edition
 FLORIDA FIRE PREVENTION CODE (FFPC)..... 2014 Edition
 NATIONAL ELECTRICAL CODE NFPA-70..... 2011 Edition
 FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST. Latest Edition
 FDOT DESIGN STANDARDS..... Latest Edition
 FLORIDA ACCESSIBILITY CODE..... 2014 Edition

DESIGN DATA

CONSTRUCTION TYPE: _____ TOTAL BUILDING AREA PER FLOOR: _____
 OCCUPANCY CLASS: _____ BUILDING HEIGHT/NUMBER OF STORIES: _____
 OCCUPANT LOAD: _____ REQUIRED SPRINKLER OR ALARM SYSTEM: Yes / No
 TOTAL EXITS: _____ NUMBER OF BEDROOMS: _____
 SQ FT ALTERED AREA _____ LEVEL OF ALTERATION: _____

DESIGN LOADS (FBC-B CHAPTER 16):

N/A

WIND LOADS (FBC-B SECTION 1609):

N/A

LIFE SAFETY PLAN:

N/A

SCOPE OF PROJECT

THIS PROJECT INCLUDES THE DE
 EXISTING BOAT RAMP AND ACCES
 CONSTRUCTION OF A DEEPER BC
 ACCESS DOCK, MINOR PARKING ,
 IMPROVEMENTS, BANK STABILIZAT
 RENOVATION OF EXISTING RESTRIC

ROBERT DAVIS, P.E.
 DESIGNER

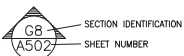
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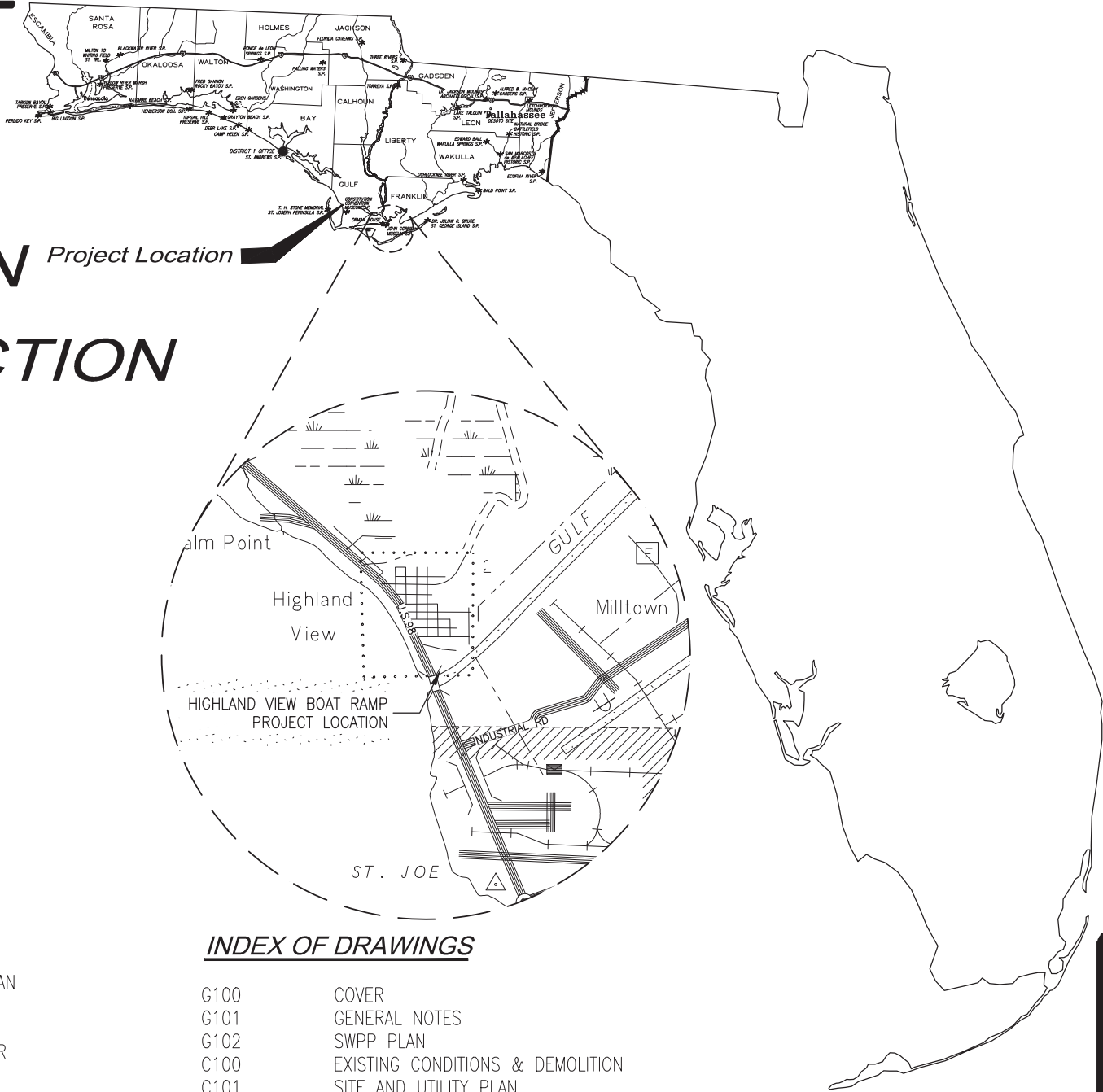
FILE No.

XX-XX-XX

INITIAL ISSUE DATE

REFERENCE LEGEND





CTION Project Location

TRUCTION

ENTS

JECT

THE DEMOLITION OF AN
 D ACCESS DOCK. NEW
 PER BOAT RAMP AND
 PARKING AND VEHICULAR
 TABILIZATION, AND
 G RESTROOM.

INDEX OF DRAWINGS

G100	COVER
G101	GENERAL NOTES
G102	SWPP PLAN
C100	EXISTING CONDITIONS & DEMOLITION
C101	SITE AND UTILITY PLAN
C102	GRADING PLAN
C103	PLAN AND PROFILE
C300	RAMP CROSS SECTION
D100	GENERAL DETAILS
D101	BOAT RAMP DETAILS AND NOTES
D102	BOAT RAMP SLAB DETAILS
S100	SHEET PILE LAYOUT
S101	DOCK FRAMING PLAN
S300	SECTIONS

HIGHLAND VIEW BOAT RAMP IMPROVEMENTS
 60% CONSTRUCTION DOCUMENTS

P.E.



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GENERAL NOTES

- 1) THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY AND ALL UTILITIES, AS REQUIRED BY THE PLANS AND UTILITY COMPANIES, TO CONSTRUCT THE PROPOSED IMPROVEMENTS. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF SAID RELOCATION. CONTRACTOR SHALL ALSO NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL (800-432-4770) AT LEAST 2 FULL DAYS PRIOR TO EXCAVATION OR DEMOLITION, AND UTILITY OWNERS NOT COVERED BY THIS PROGRAM.
- 2) MINIMUM COMPACTION AND SHALL BE PROVIDED FOR THE PROPOSED PAVEMENT LOCATIONS AND SURROUNDING AREAS BY THE GEOTECHNICAL ENGINEER. ANY BORROW MATERIAL SHALL, IF REQUIRED, BE PROVIDED BY THE CONTRACTOR BASED ON GEOTECHNICAL FINDINGS AND RECOMMENDATIONS. CONTRACTOR SHALL UTILIZE SUITABLE SOIL ON SITE FOR ANY BORROW MATERIAL. FOLLOWING FINAL GRADING, ANY STOCKPILED TOPSOIL SHALL BE SPREAD OVER DISTURBED AREAS OR OWNERS PROPERTY AS NEEDED. THE SOIL SHALL BE STABILIZED WITH SOD AS SPECIFIED IN LANDSCAPE SPECIFICATIONS. TO PREVENT EROSION ON SITE.
- 3) WHERE REFERENCE IS MADE TO A STANDARD INDEX OR DETAIL, THE FDOT DESIGN STANDARDS, 2015 EDITION, SHALL BE UTILIZED AS IF A PART OF THESE PLANS. CONTRACTOR MAY SUBSTITUTE FDOT ITEMS FOR THE INFRASTRUCTURE CONSTRUCTION; ANY SUBSTITUTIONS SHALL HAVE A 50 YEAR LIFESPAN. CONTRACTOR/OWNER WILL BE REQUIRED TO PROVIDE DESIGNS OR VERIFICATION OF SUBSTITUTE. ALL SIGNS REFERED TO IN THE PLANS SHALL BE IN ACCORDANCE WITH MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) LATEST EDITION.
- 4) UNLESS OTHERWISE NOTED OR DETAILED ON THE PLANS OR IN THE SPECIFICATIONS, THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SHALL BE THE GOVERNING SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION FOR SITE WORK.
- 5) WATER AND SEWER SYSTEM CONSTRUCTION SHALL COMPLY WITH GOVERNING AGENCY'S SPECIFICATIONS FOR WATER & SEWER UTILITY, AS WELL AS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. CONTRACTOR SHALL CONTACT UTILITY AGENCY FOR ANY ALTERNATIVE MATERIALS BEING PROPOSED AND OBTAIN APPROVAL.
- 6) THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ALSO MAINTAIN EROSION CONTROL DEVICES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE AND ENTERING THE STORMWATER POND. THE EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL (SWPPP) PLANS ARE THE MINIMUM REQUIRED AND SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE INSPECTOR TO CONTROL SEDIMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STORMWATER RUNOFF SHALL BE CONTROLLED DURING THE COURSE OF CONSTRUCTION IN SUCH A MANNER AS TO PREVENT DAMAGE OR DETRIMENTAL HARM TO WETLAND ON SITE. IT IS UNDERSTOOD THAT THIS PROPERTY IS ADJACENT TO COUNTY WATERS. THE CONTRACTOR SHALL REFER TO THE "FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL" FOR ADDITIONAL EROSION CONTROL MEASURE AND ALTERNATIVES. CONTRACTOR SHALL SEEK APPROVAL FROM THE WAKULLA COUNTY PLANNING DEPARTMENT AND ENGINEER OF RECORD FOR ANY SUBSTITUTIONS TO THE EROSION CONTROL MEASURES.
- 7) ALL DISTURBED AREAS SHALL BE STABILIZED PER THE LANDSCAPE SPECS. DISTURBED AREAS OUTSIDE THE SILT FENCED PERIMETER SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. ALL DISTURBED AREAS TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH QUICK GROW SEED AND MULCH. THE CONTRACTOR SHALL WARRANTY LANDSCAPING FOR A MINIMUM OF 1 YEAR AFTER ACCEPTANCE (OR LONGER AS SPECIFIED ELSEWHERE).
- 8) CONTRACTOR SHALL CUT & PATCH ALL ROADS IN ACCORDANCE WITH FDOT STANDARDS AS REQUIRED FOR UTILITY INSTALLATIONS.
- 9) AS-BUILTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE AS-BUILT SURVEY INDICATES AN AREA OF INCOMPLETE OR UNACCEPTABLE WORK, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE NECESSARY REPAIRS, AS DIRECTED BY THE ENGINEER, OR FDEP. CONTRACTOR WILL BE REQUIRED TO PROVIDE UPDATED AS-BUILTS TO DEMONSTRATE COMPLIANCE WITH THE PLANS AND PERMITS. ALL FINAL AS-BUILT SURVEYS ARE REQUIRED TO BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL. AS-BUILTS ARE REQUIRED TO RECEIVE FINAL C.O.'S. TEMPORARY C.O.'S MAY BE ISSUED PRIOR TO FINAL CLOSE OUT. IF THE CONTRACTOR IS SEEKING TEMPORARY C.O.'S, ALL ASSOCIATED INFRASTRUCTURE, LANDSCAPING, PARKING ETC... SHALL BE COMPLETED.

CONSTRUCTION SEQUENCE

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH FDEP, CITY OF PORT ST. JOE, ENGINEER OF RECORD, UTILITY COMPANIES AND ALL OTHER PARTIES RESPONSIBLE FOR COMMENCEMENT OF PROJECT. THIS MEETING SHALL TAKE PLACE PRIOR TO COMMENCEMENT OF ANY PROJECT RELATED ACTIVITIES OR ISSUANCE OF THE NOTICE TO PROCEED. PRIOR TO ANY CONSTRUCTION THE APPLICABLE PERMITS MUST BE POSTED, WITHOUT NAILING TO ANY TREE. THE NAME AND NUMBER OF THE SEDIMENT AND EROSION CONTROL OFFICER SHALL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.
2. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION SHALL NOT COMMENCE UNTIL INFORMATION (NAME AND PHONE NUMBER) OF CERTIFIED STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR HAS BEEN PROVIDED TO THE ENGINEER.
3. PRIOR TO DISTURBANCE, A SILT FENCE BACKED WITH 4' HOG WIRE FENCE (TRENCHED 8 INCHES DEEP AND BACKFILLED ON THE UPHILL SIDE), SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE PLANS. SILT FENCE MUST NOT BE TRENCHED WITHIN THE CPZ OF ANY TREES TO BE PROTECTED. EROSION CONTROL SHOWN ON PLANS IS REQUIRED. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF THE DEVELOPMENT, AT THE DISCRETION OF THE WAKULLA COUNTY PLANNING DEPARTMENT. THE WAKULLA COUNTY PLANNING DEPARTMENT MAY REQUIRE ADDITIONAL MEASURES TO PREVENT ADDITIONAL EROSION CONTROL. CONTRACTOR SHALL PROVIDE OUTLET PROTECTIONS FOR SEDIMENTS THAT MAY ENTER THE STORMWATER FACILITY. CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING THE POND AFTER CONSTRUCTION TO REMOVE ALL SEDIMENT. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONDITION OF THE POND DURING CONSTRUCTION AND SHALL USE A TURBIDITY BARRIER AT EACH POND CONNECTION TO PREVENT SEDIMENTATION ENTERING THE POND. NO SITE ACTIVITIES SHALL IMPACT THE OFF SITE COUNTY OR STATE WATERS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY IMPACTS TO THE COUNTY OR STATE WATERS.
4. DURING THE CLEARING, GRUBBING AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE. ALL EXPOSED SLOPES THAT ARE EQUAL TO OR GREATER THAN 5% AN EROSION BLANKET SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION.
5. AFTER THE INITIAL SITE GRADING WORK, ALL PROPOSED INLET(S)/OUTFALLS, ONCE INSTALLED, SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF BY THE USE OF FILTER FABRIC. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH PERMANENT SEED OR OTHER PERMANENT STABILIZATION METHODS. SEEDING SHALL BE THE SAME AS IN TEMPORARY SEEDING.
6. TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE INACTIVE MORE THAN 7 DAYS. SOD SHALL BE USED TO STABILIZE THE STORMWATER DISCHARGE SWALE. FILTER FABRIC SHALL BE PLACED UNDER STORMWATER DISCHARGE SWALE OUTFALL.
7. CREATE DIVERSION CHANNELS IF NECESSARY TO DIRECT STORM WATER FLOW TO THE CONVEYANCE SYSTEM. CONSTRUCT HAY BALE CHECK DAMS WHERE NEEDED TO TRAP SEDIMENT BEFORE IT REACHES THE CONVEYANCE SYSTEM OR POND.DO NOT BLOCK ACCESS DRIVES.
8. CONSTRUCT ALL UNDERGROUND UTILITIES SUCH AS SANITARY SEWER AND WATER SERVICES TO THE SITE CONTRACTOR SHALL HAVE AN EASEMENT PREPARED FOR THE WATER METER FOR SUBMITTAL.
9. CARE SHALL BE TAKEN TO ASSURE THE REMOVAL OF ACCUMULATED FINE SEDIMENTS AND THAT THE EXCESSIVE COMPACTION OF SOIL BY CONSTRUCTION MACHINERY IS AVOIDED. INLET(S)/OUTFALLS SHALL BE PROTECTED WITH FILTER FABRIC AND PROPERLY INSTALLED HAY BALES.
10. ALL SEDIMENT IS TO BE CAPTURED ON THE PROJECT SITE. ANY SEDIMENT ESCAPING THE PROJECT SITE WILL BE REQUIRED TO BE REMOVED AND RESTORED INCLUDING THE TRACKING OF SOIL ON STREETS. THIS INCLUDES SEDIMENT INTO COUNTY & STATE WATERS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY SEDIMENT ENTERING THE COUNTY AND STATE WATERS AND WILL BE RESPONSIBLE FOR ITS REMOVAL.
11. DAILY SWEEPING WILL BE REQUIRED ON THE SITE AND IMMEDIATELY AFTER STORM EVENTS TO PREVENT TRACKING OF SEDIMENT ON TO STREETS AND RIGHT OF WAY OR POND.
12. TWO WEEKS PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL HAVE A WALK THROUGH WITH THE ENGINEER AND A PUNCH LIST SHALL BE PREPARED. ONCE ALL PUNCH LIST ITEMS ARE ADDRESSED TO SATISFY THE ENVIRONMENTAL PERMIT CONTRACTOR SHALL ALSO SCHEDULE A WALK THROUGH WITH THE OWNER, ENGINEER UPON COMPLETION.
13. CONTRACTOR SHALL PAY FOR AND PROVIDE THE ENGINEER WITH MINIMUM OF SIX (6) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY OF ALL INFRASTRUCTURE, FDEP ASSOCIATED CONVEYANCES, INCLUDING LANDSCAPE IMPROVEMENTS.
14. ENGINEER WILL FILE SIGNED AND SEALED RECORD DRAWINGS AND STORM WATER COMPLIANCE REPORT WITH FDEP TWO WEEKS PRIOR TO REQUESTING A CLOSE OUT OF THE PROJECT.



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MAINTENANCE AND INSPECTION SCHEDULE

- 1) EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 1/2" OF RAINFALL. REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 2) SYNTHETIC HAY BALES SHALL BE USED IN AREAS WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. INSPECTION OF THE SYNTHETIC HAY BALES SHALL TAKE PLACE IMMEDIATELY AFTER EACH RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 3) INLET(S)/OUTFALLS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIRS TO THE HAY BALES, SILT FENCE, OR FILTER FABRIC SHALL BE PERFORMED IMMEDIATELY.
- 4) BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED OR SODDED SHALL BE RESEEDED OR RESODDED PER MANUFACTURES' INSTRUCTIONS.
- 5) MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY. CONTRACTOR SHALL PIN SOD ON SLOPES STEEPER THAN 3:1
- 6) MAINTAIN ALL AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY OR REQUIRED BY WAKULLA COUNTY.
- 7) IF PROPOSED EROSION AND SEDIMENTATION CONTROLS ARE FOUND INEFFECTIVE OR IN NEED OF MAINTENANCE, THE WAKULLA COUNTY DEPARTMENT OF DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT ENVIRONMENTAL INSPECTOR MAY DIRECT INSTALLATION OF ADDITIONAL MEASURES TO PROTECT THE ENVIRONMENT. THE ENGINEER SHALL FURNISH THE CONTRACTOR WITH INFORMATION PERTAINING TO THE CONSTRUCTION, OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL PRACTICES PER FLORIDA ADMINISTRATIVE CODE CHAPTER 62-25.025(7).

CONTRACTOR SHALL CONTROL EROSION WITHIN THE PROJECT LIMITS SUCH THAT THERE ARE NO NEGATIVE IMPACTS DOWNSTREAM OF THE PROJECT DUE TO UNCONTROLLED EROSION OR SEDIMENTATION. SHOULD ADDITIONAL BMP'S BE REQUIRED TO CONTROL EROSION AND SEDIMENTATION OF THE WETLAND AND EXISTING SWMF, THE CONTRACTOR SHALL PROVIDE THE AGENT WITH A SUPPLEMENTARY STORMWATER POLLUTION PROTECTION PLAN WITH APPROPRIATE BMP'S PLACED AS NEEDED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESCAPE OF SEDIMENT FROM THE SITE AND SHALL BE HELD RESPONSIBLE FOR ANY AND ALL IMPACTS RESULTING FROM SUCH EVENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF DOWNSTREAM IMPACTS DUE TO THE RELEASE OF SEDIMENTS FROM THE SITE INCLUDING BUT NOT LIMITED TO SEDIMENTATION AND EROSION THAT MAY RESULT FROM THE BUILDUP OF SUCH SEDIMENTS DOWNSTREAM OF THE PROJECT. CONTRACTOR SHALL FULLY BEAR THE FINANCIAL COST OF ANY PENALTIES OR FINES RESULTING FROM SUCH EVENTS.

USACOF NOTES TO CONTRACTOR:

- 1) IF BARGE MOUNTED EQUIPMENT IS USED FOR CONSTRUCTION AT LEAST ONE HALF OF THE ADJACENT CANAL SHALL BE MAINTAINED CLEAR OF CONSTRUCTION VESSELS AT ALL TIMES.
- 2) SHEET PILE INSTALLATION SHALL BE BY METHODS OTHER THAN IMPACT HAMMER. SUBMIT SHEET PILE INSTALLATION PLAN TO ENGINEER FOR REVIEW.
- 3) PROPOSED DOCK PILES MAY BE INSTALLED WITH IMPACT HAMMER, HOWEVER THE CONTRACTOR IS LIMITED TO INSTALLING TEN (10) PILES PER DAY. SUBMIT PILE INSTALLATION PLAN TO ENGINEER FOR REVIEW.
- 4) THESE PLANS COMPLY WITH THE "U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT'S PROGRAMMATIC BIOLOGICAL OPINION (JAXBO) PROJECT DESIGN CRITERIA (PDCS) FOR IN-WATER ACTIVITIES". ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE SAME. COPY OF REGULATIONS PROVIDED ON REQUEST.
- 5) CONTRACTOR AND APPLICANT SHALL COMPLY WITH THE "STANDARD MANATEE CONDITIONS FOR IN-WATER WORK". COPY OF REGULATIONS PROVIDED ON REQUEST.
- 6) CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO DAYLIGHT HOURS.
- 7) CONTRACTOR AND APPLICANT SHALL COMPLY WITH THE "STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE". COPY OF REGULATIONS PROVIDED ON REQUEST.

UTILITY PROVIDERS

FIBER OPTIC	SOUTHERN LIGHT	
WATER	ST. JOE	
TV CABLE	MEDIACOM	
COMM.	FAIRPOINT COMMUNICATIONS	
ELECTRIC	DUKE ENERGY	DWAYNE BUTLER
GAS	ST JOE GAS	REX STRICTLAND 850.229.8216 EXT. 207



US Army Corps of Engineers

SAJ-2017-02938 (NW-DEB)
Highland View Boat Ramp
Sheet 4 of 32 , June 15, 2018

DESIGNER :	RDAVIS/BDD	ISSUE DATE:	XX-XX-XX	SYMBOL	REVISION	DATE	
DRAWN BY:	BDD	COMP. FILE No.:	N2004	(A)			
REVIEWED BY:	RDAVIS	STATE PROJECT No.:	N2004	(B)			
PROFESSIONAL REGISTRATION							
ROBERT DAVIS, P.E.							
P.E. #73113							
				Department of Environmental Protection Deepwater Horizon Program Division of Water Restoration 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147			
324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 221-7200							
Consultant :							
HIGHLAND VIEW BOAT RAMP							
GENERAL NOTES							
HIGHLAND VIEW BOAT RAMP IMPROVEMENTS							
SHEET TITLE							
PROJECT TITLE							
SHEET NO.				G101			

STORMWATER POLLUTION PREVENTION PLAN:

G102

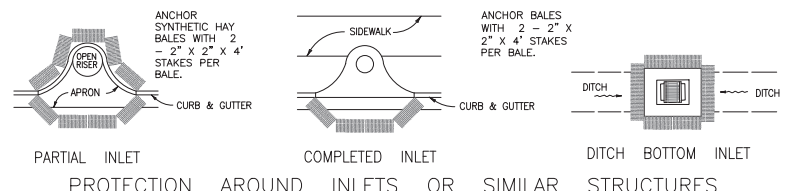
1. SITE DESCRIPTION:
 - A. CONSTRUCTION ACTIVITY: HIGHLAND VIEW BOAT RAMP
 - PROJECT LIMITS: 0.46 AC.
 - PROJECT DESCRIPTION: BOAT RAMP AND ASPHALT ROAD
 - MAJOR SOIL DISTURBING ACTIVITIES: CONSTRUCTION OF BOAT RAMP
- B. TOTAL PROJECT AREA: 20,130 SQUARE FEET OR 0.46 ACRES
- D. (1) RUNOFF COEFFICIENTS BEFORE: .61, AND AFTER: .61
- (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: QUARTZIPSAMMITS (SILTY FINE SAND)
- (3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: 0.46 ACRES
- F. (1) NAME OF RECEIVING WATERS: COUNTY OWNED MAN MADE BASIN

2. CONTROLS:
 - NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SYNTHETIC HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS AND ENTRANCES
 - A. EROSION AND SEDIMENT CONTROLS:
 - (1) STABILIZATION PRACTICES:
 - TEMPORARY SODDING
 - X TEMPORARY GRASSING
 - X PERMANENT PLANTING, SODDING, OR SEEDING
 - X TEMPORARY MULCHING
 - ARTIFICIAL COVERING
 - X BUFFER ZONES
 - X PRESERVATION OF NATURAL RESOURCES
 - (2) STRUCTURAL PRACTICES:

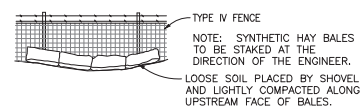
<ul style="list-style-type: none"> SAND BAGGING X SILT FENCES X SYNTHETIC HAY BALES X BERMS DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES PIPE SLOPE DRAINS FLUMES X ROCK BEDDING AT CONSTRUCTION EXIT TIMBER BEDDING AT CONSTRUCTION EXIT DITCH LINER 	<ul style="list-style-type: none"> SEDIMENT TRAPS SEDIMENT BASINS STORM INLET SEDIMENT TRAP (ROCK BAGS) STONE OUTLET STRUCTURES CURBS AND GUTTERS STORM SEWERS VELOCITY CONTROL DEVICES X TURBIDITY BARRIER X RIP RAP
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- B. OTHER CONTROLS:
 - (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
 - (2) OFF SITE VEHICLE TRACKING:
 - HAIL ROADS DAMPENED FOR DUST CONTROL
 - X LOADED HAIL TRUCKS TO BE COVERED WITH TARPULIN
 - X EXCESS DIRT ON ROAD REMOVED DAILY
 - X STABILIZED CONSTRUCTION ENTRANCE
 - (3) SANITARY WASTE: PORTABLE TOILET
 - (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
 - (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.
- C. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: FDEP GENERAL STORMWATER PERMIT AND FRANKLIN COUNTY DEVELOPMENT ORDER.
3. MAINTENANCE:
 - CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
4. INSPECTION:
 - ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR OR OWNER AS WELL AS AFTER 0.50' OR MORE OF RAIN, AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED.

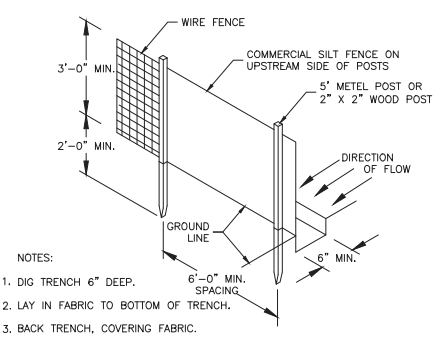
- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IN INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- C. RECORDS OF ALL INSPECTIONS AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO FRANKLIN COUNTY AND FDEP PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



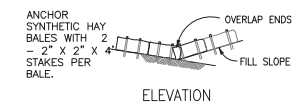
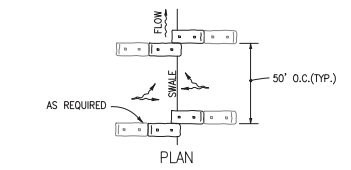
BALES BACKED BY FENCE



NOTES:
 1. DIG TRENCH 6" DEEP.
 2. LAY IN FABRIC TO BOTTOM OF TRENCH.
 3. BACK TRENCH, COVERING FABRIC.

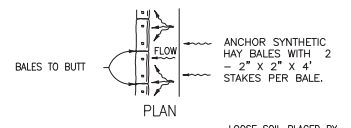
TYPE IV SILT FENCE

SCALE: N.T.S.

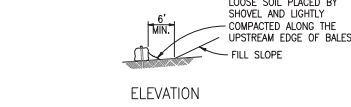


ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



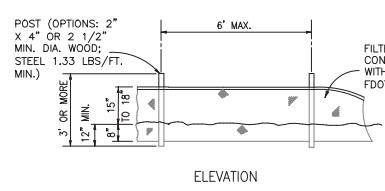
PLAN



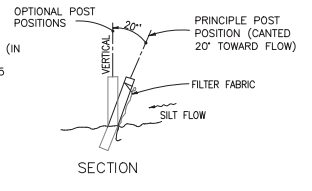
ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



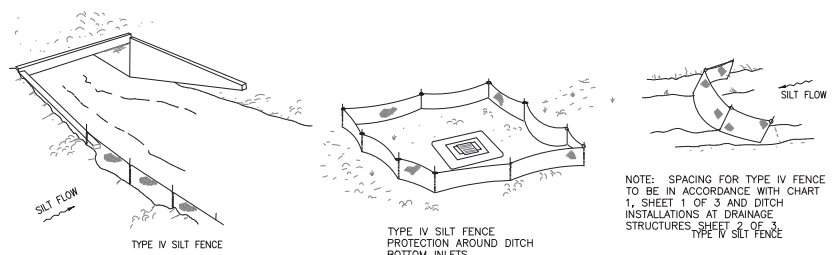
ELEVATION



SECTION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE IV SILT FENCE



NOTE: SPACING FOR TYPE IV FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES, SHEET 2 OF 3, TYPE IV SILT FENCE

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

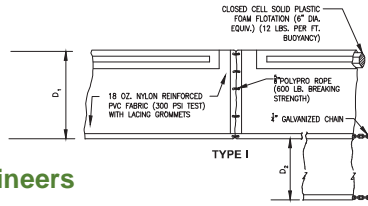
SILT FENCE APPLICATIONS

NOTE:
 ALL HAYBALES\BALES CALLED OUT ON THIS SHEET SHALL BE SYNTHETIC HAY BALES PER FDOT STANDARDS.



US Army Corps of Engineers

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Highland View Boat Ramp
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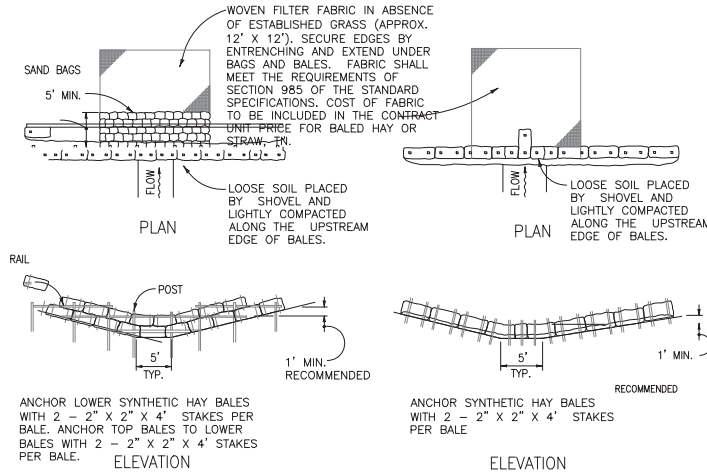


D₁ = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D₂ = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER DETAILS

NTS

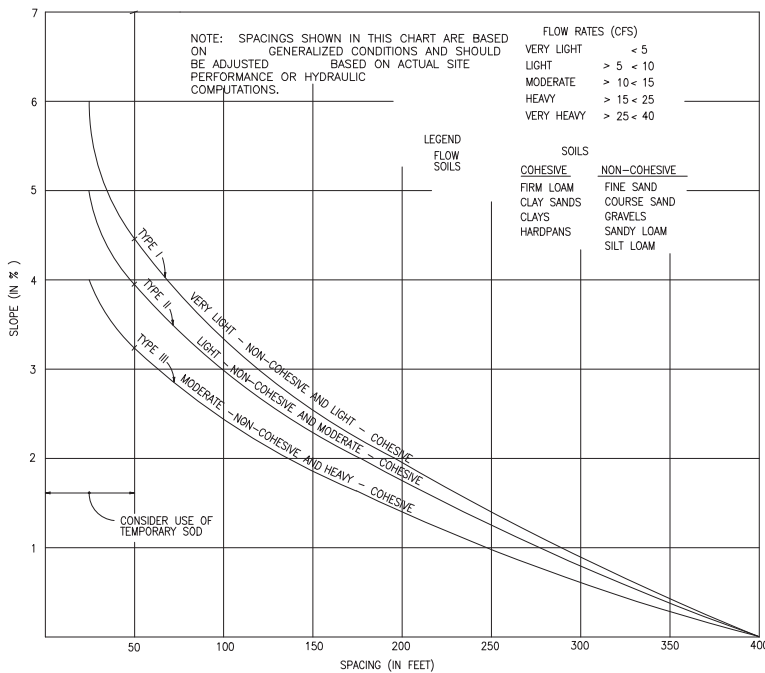


APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN THE CHART BELOW.

TYPE II

TYPE I

BARRIER FOR UNPAVED DITCHES



RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

Table with columns: DESIGNER (RDAVIS/BDD), DRAWN BY (BDD), REVIEWED BY (RDAVIS), CONSULTANT (Dewberry PREBLE-RISH), ISSUE DATE (XX-XX-XX), COMP. FILE No. (N2004), STATE PROJECT No. (N2004), SYMBOL (A, B), REVISION, DATE.

Department of Environmental Protection
Deepwater Horizon Program
Division of Water Restoration
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147

PROFESSIONAL REGISTRATION
ROBERT DAVIS, P.E.
P.E. #73115

HIGHLAND VIEW BOAT RAMP
SWPPP PLAN
HIGHLAND VIEW
BOAT RAMP IMPROVEMENTS

SHEET NO. G102

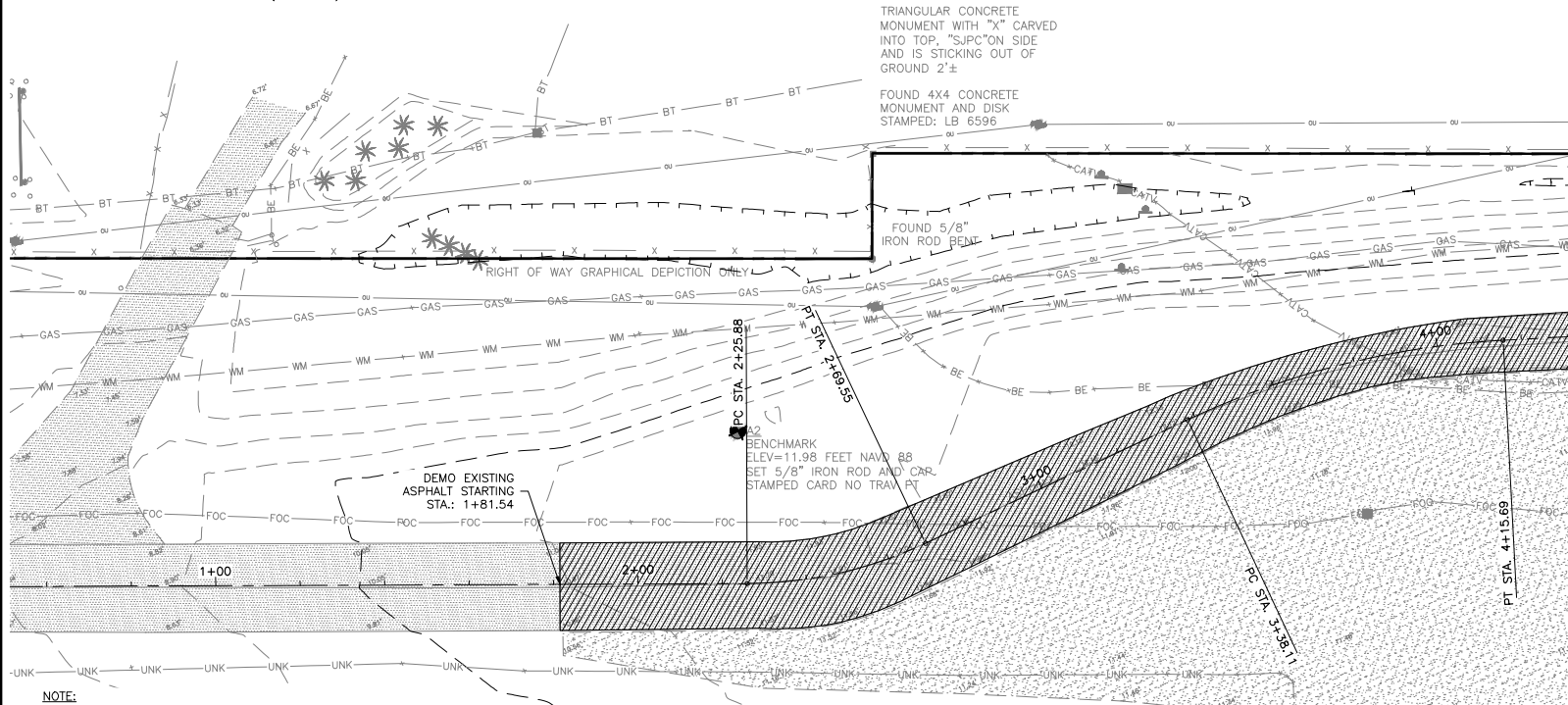
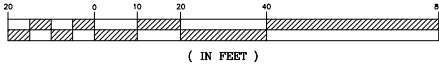


US Army Corps of Engineers

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Highland View Boat Ramp
Sheet 7 of 32 , June 15, 2018



GRAPHIC SCALE



TRIANGULAR CONCRETE MONUMENT WITH "X" CARVED INTO TOP, "SUP" ON SIDE AND IS STICKING OUT OF GROUND 2'±
FOUND 4x4 CONCRETE MONUMENT AND DISK STAMPED: LB 6596
FOUND 5/8" IRON ROD BENT

DEMO EXISTING ASPHALT STARTING STA: 1+81.54

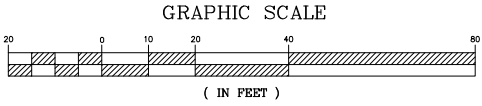
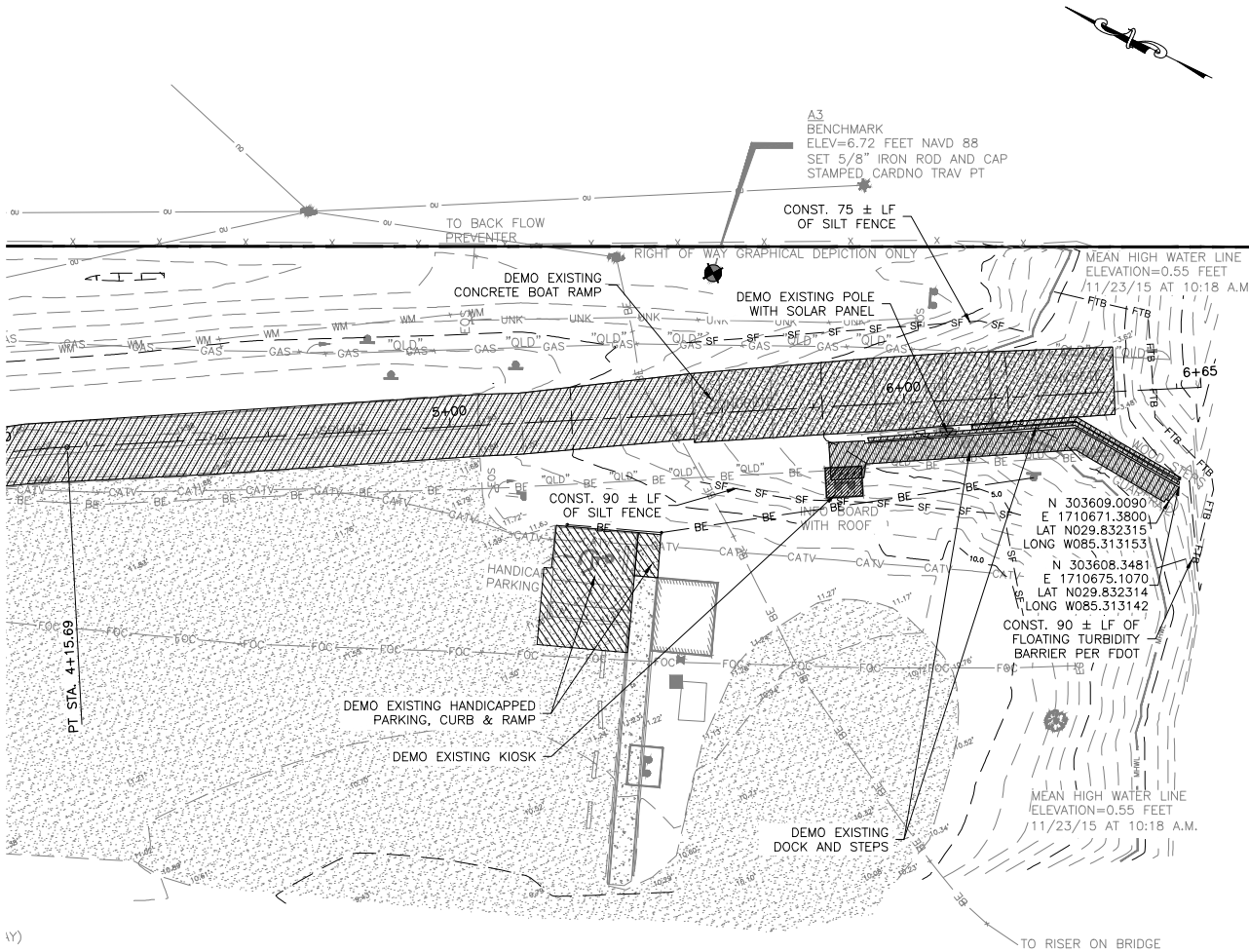
BENCHMARK ELEV=11.98 FEET NAVD 88 SET 5/8" IRON ROD AND CAR STAMPED CARD NO TRAV PT

NOTE:
DRAIN FIELD LOCATION WAS NOT LOCATED. CONTRACTOR SHALL USE CAUTION WHILE DEMOLITION, CONSTRUCTION OF IMPROVEMENTS AND CIRCULATION OF HEAVY EQUIPMENT ON SITE AS TO NOT DAMAGE DRAIN FIELD. ANY DAMAGE CAUSED SHALL BE REPLACED AND REPAIRED AT CONTRACTORS EXPENSE

US 98 11.22
(VARIABLE WIDTH RIGHT OF WAY)

SHEET NO.
C100

K:\0303.275_HIGHLAND_VIEW_BOAT_RAMP_NRD\DWG\FOLDER\PRODUCTION\05-01-18_XXXXX.XXX.DWG



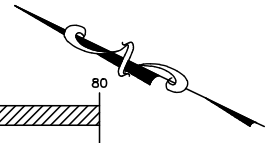
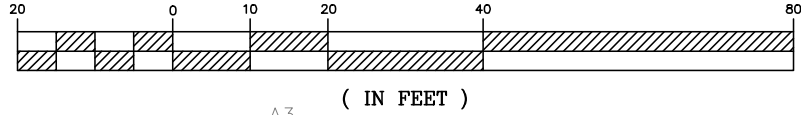
- LEGEND**
- SF - SF - TYPE IV SILT FENCE
 - FTB - FLOATING TURBIDITY BARRIER

SYMBOL	DATE	REVISION	DATE	REVISION	DATE	REVISION
(A)						
(B)						
SYMBOL	DATE	REVISION	DATE	REVISION	DATE	REVISION
(C)						
(D)						
ISSUE DATE: XX-XX-XX	COMP. FILE No.: N2004	STATE PROJECT No.: N2004	DESIGNER: R DAVIS/BDD	PROFESSIONAL REGISTRATION: ROBERT DAVIS, P.E. #73115	SHEET TITLE: HIGHLAND VIEW BOAT RAMP	
REVIEWED BY: R DAVIS	CONSULTANT: Dewberry PREBLE-RISH	324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200	PROJECT TITLE: HIGHLAND VIEW BOAT RAMP IMPROVEMENTS			
Department of Environmental Protection Deepwater Horizon Program Division of Water Restoration 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147						
SHEET NO. C100						

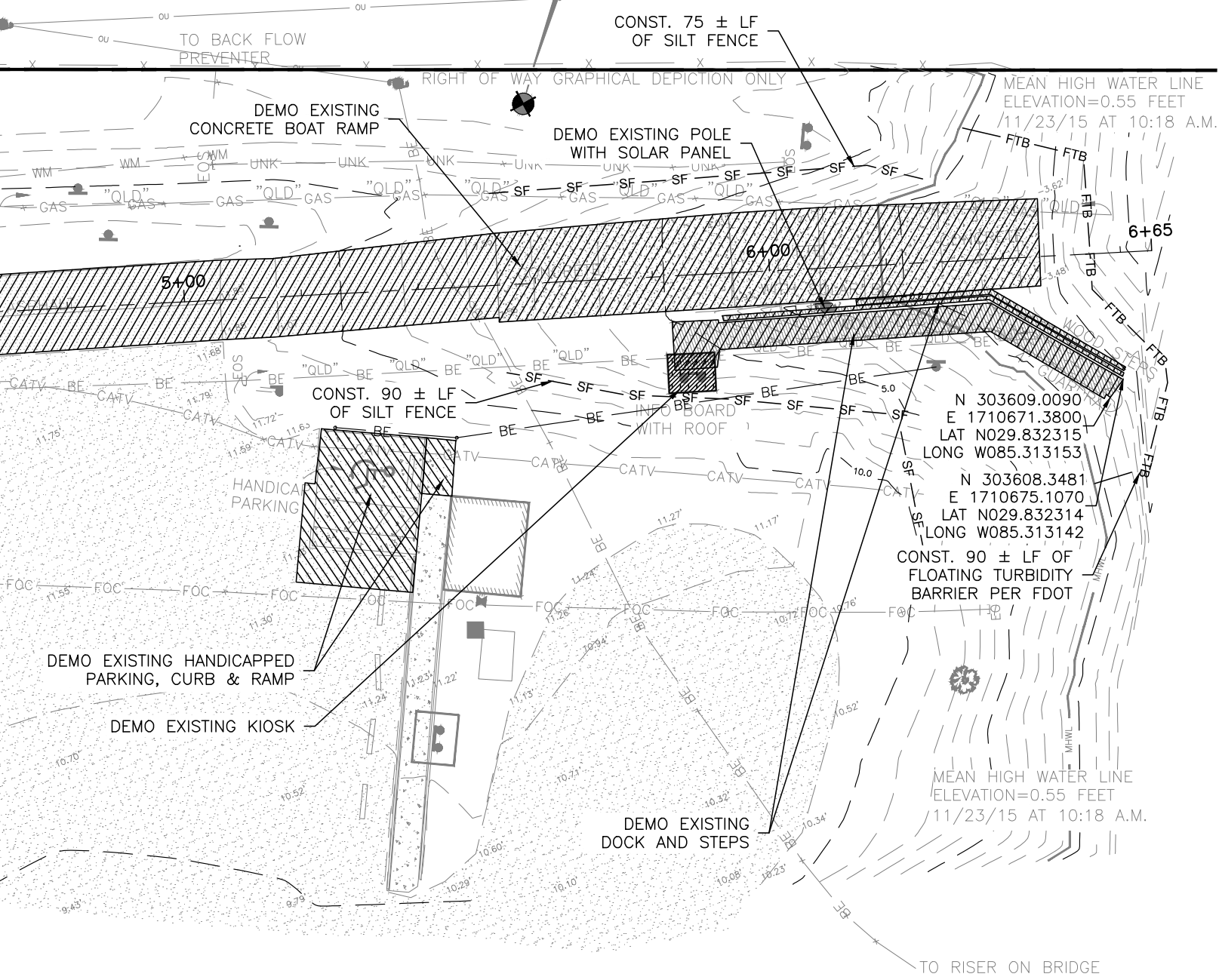


SHEET NO.
C100

GRAPHIC SCALE



(IN FEET)
A3
BENCHMARK
ELEV=6.72 FEET NAVD 88
SET 5/8" IRON ROD AND CAP
STAMPED CARDNO TRAV PT



TO BACK FLOW PREVENTER

CONST. 75 ± LF OF SILT FENCE

RIGHT OF WAY GRAPHICAL DEPICTION ONLY

DEMO EXISTING CONCRETE BOAT RAMP

DEMO EXISTING POLE WITH SOLAR PANEL

MEAN HIGH WATER LINE ELEVATION=0.55 FEET
11/23/15 AT 10:18 A.M.

51.00

64.00

6+65

CONST. 90 ± LF OF SILT FENCE

INTO BOARD WITH ROOF

N 303609.0090
E 1710671.3800
LAT N029.832315
LONG W085.313153

N 303608.3481
E 1710675.1070
LAT N029.832314
LONG W085.313142

CONST. 90 ± LF OF FLOATING TURBIDITY BARRIER PER FDOT

HANDICAP PARKING

DEMO EXISTING HANDICAPPED PARKING, CURB & RAMP

DEMO EXISTING KIOSK

DEMO EXISTING DOCK AND STEPS

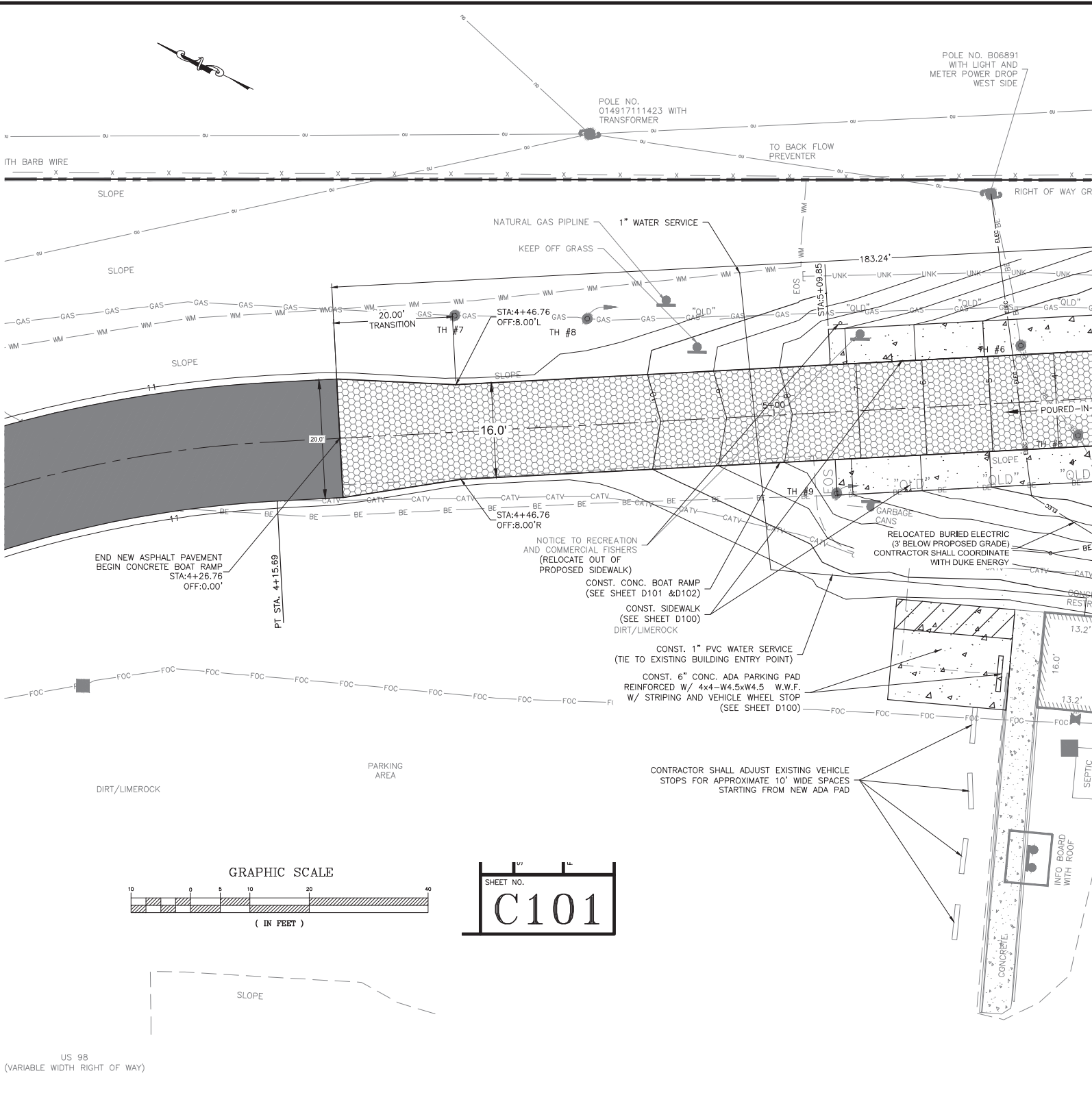
MEAN HIGH WATER LINE ELEVATION=0.55 FEET
11/23/15 AT 10:18 A.M.

TO RISER ON BRIDGE

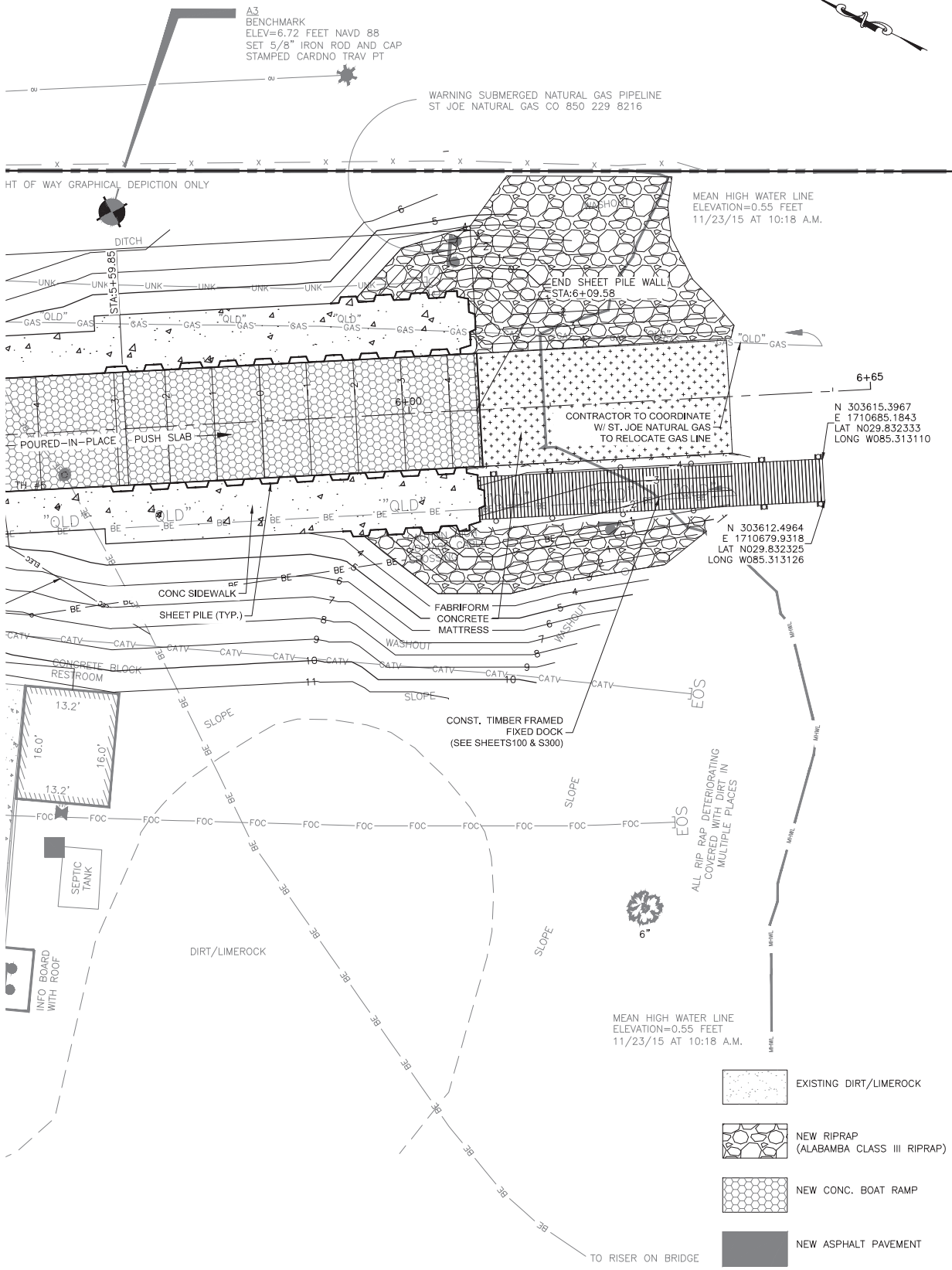


US Army Corps of Engineers

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Highland View Boat Ramp
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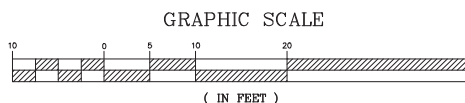
D:\CIVIL\3DFOLDER\PRODUCTION\05_01-16_XXXX\XXX.DWG



DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE: XX-XX-XX	DESIGNER: RDAVIS/BDD	PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. # 3115	
		C			A	XX-XX-XX	BDD		
		D			B	N2004	RDAVIS		
						N2004	Consultant:		
								Department of Environmental Protection Deepwater Horizon Program Division of Water Restoration 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147	
								Dewberry PREBLE-RISH 324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200	
HIGHLAND VIEW BOAT RAMP		SHEET TITLE		HIGHLAND VIEW		PROJECT TITLE		BOAT RAMP IMPROVEMENTS	
SITE AND UTILITY PLAN									
SHEET NO.								C101	



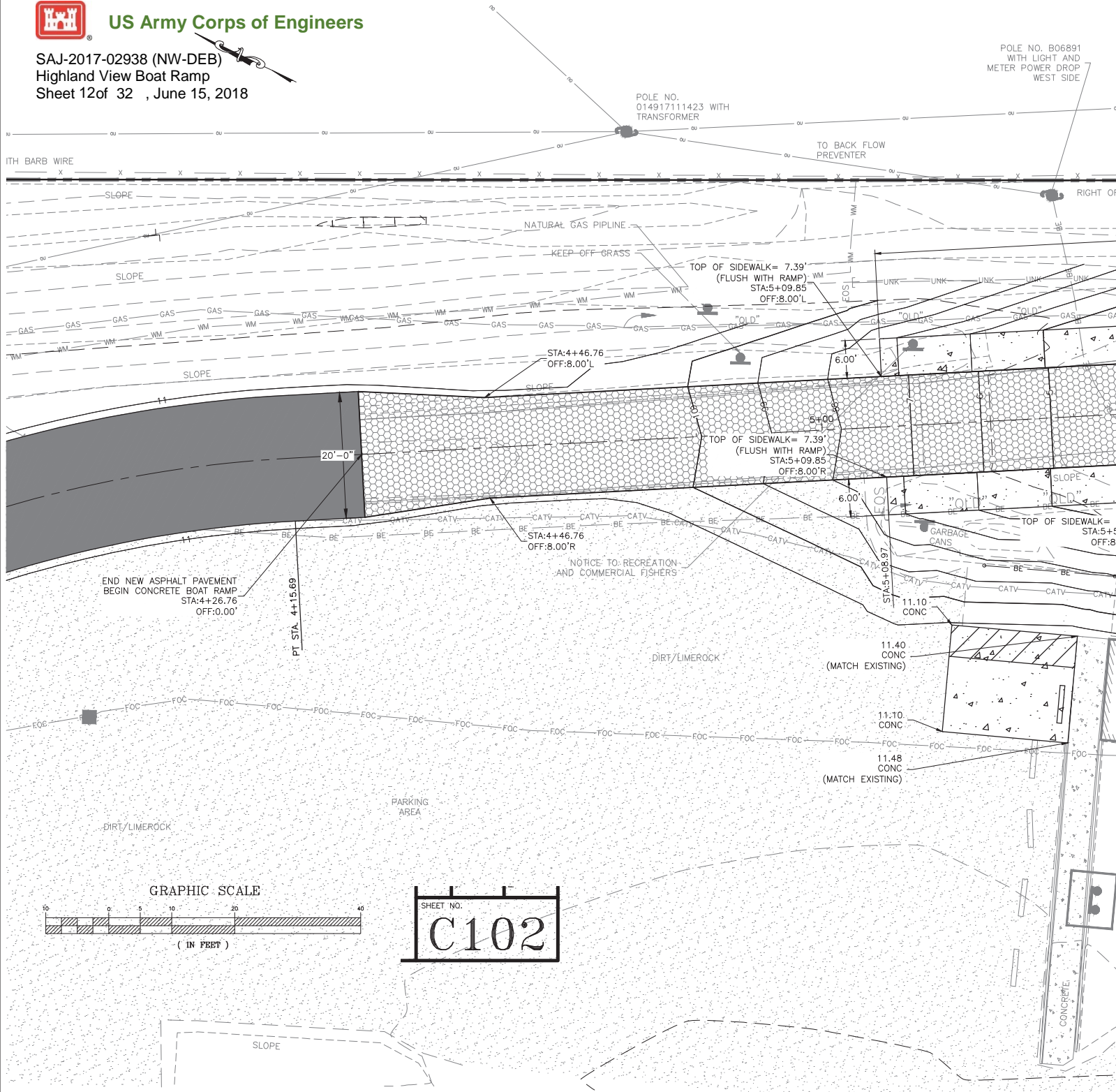
SAJ-2017-02938 (NW-DEB)
 Highland View Boat Ramp
 Sheet 11 of 32, June 15, 2018





US Army Corps of Engineers

SAJ-2017-02938 (NW-DEB)
Highland View Boat Ramp
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POLE NO.
01491711423 WITH
TRANSFORMER

POLE NO. B06891
WITH LIGHT AND
METER POWER DROP
WEST SIDE

WITH BARB WIRE

TO BACK FLOW
PREVENTER

RIGHT OF

SLOPE

NATURAL GAS PIPELINE

KEEP-OFF GRASS

TOP OF SIDEWALK = 7.39'
(FLUSH WITH RAMP)
STA:5+09.85
OFF:8.00'L

SLOPE

SLOPE

STA:4+46.76
OFF:8.00'L

TOP OF SIDEWALK = 7.39'
(FLUSH WITH RAMP)
STA:5+09.85
OFF:8.00'R

END NEW ASPHALT PAVEMENT
BEGIN CONCRETE BOAT RAMP
STA:4+26.76
OFF:0.00'

PT STA. 4+15.69

NOTICE TO RECREATION
AND COMMERCIAL FISHERS

GARBAGE CANS

STA:5+08.97

11.10
CONC

11.40
CONC
(MATCH EXISTING)

11.10
CONC

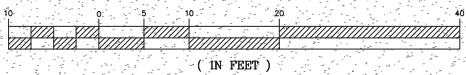
11.48
CONC
(MATCH EXISTING)

DIRT/LIMEROCK

DIRT/LIMEROCK

PARKING
AREA

GRAPHIC SCALE



(IN FEET)

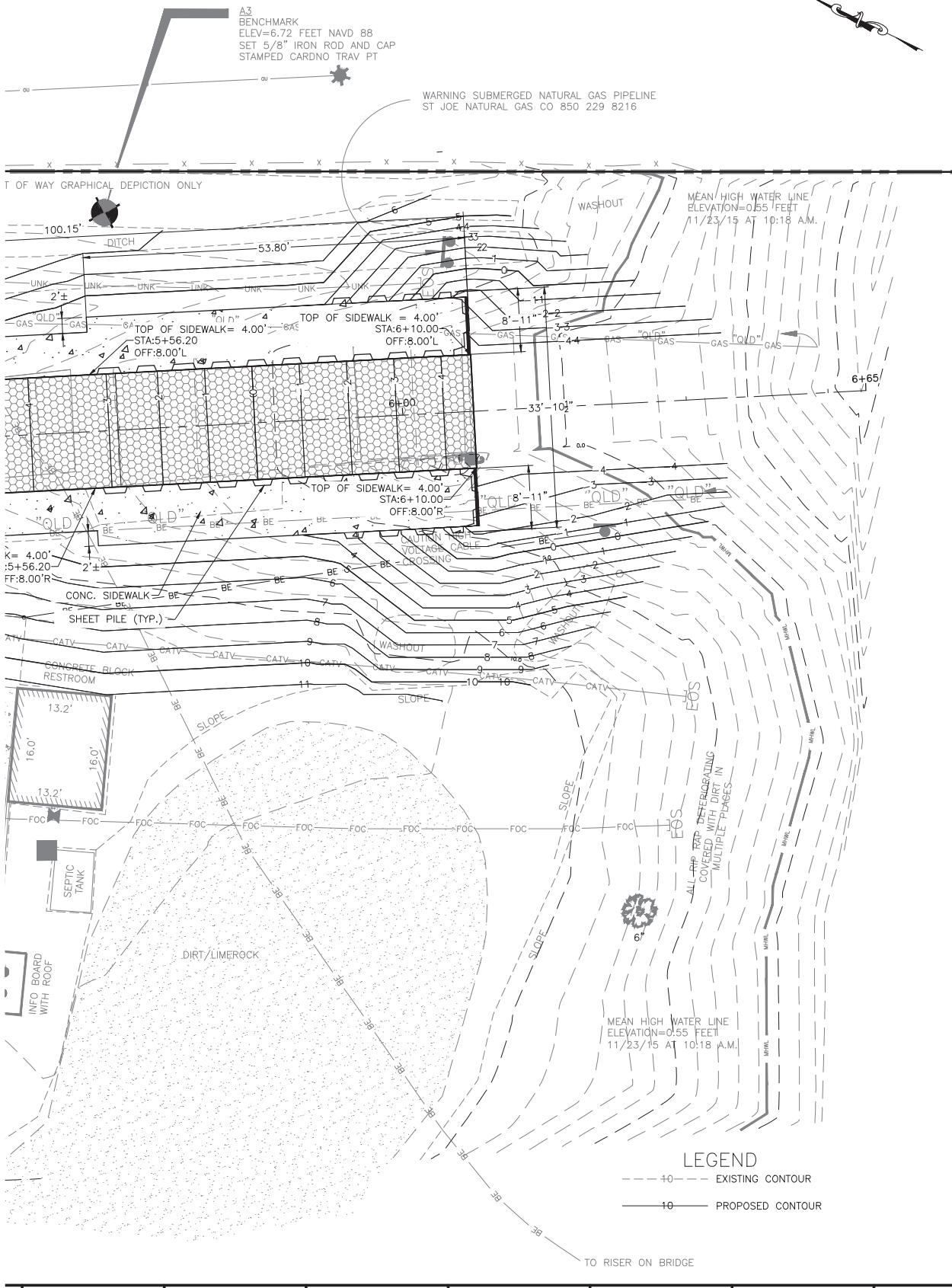
SHEET NO.
C102

CONCRETE

SLOPE

US 98
(VARIABLE WIDTH RIGHT OF WAY)

C:\MIDPOLDER\PRODUCTION\CIV_05-01-16_XXXXX.DWG



A3
BENCHMARK
ELEV=6.72 FEET NAVD 88
SET 5/8" IRON ROD AND CAP
STAMPED CARDNO TRAV PT

WARNING SUBMERGED NATURAL GAS PIPELINE
ST JOE NATURAL GAS CO 850 229 8216

T OF WAY GRAPHICAL DEPICTION ONLY

MEAN HIGH WATER LINE
ELEVATION=0.55 FEET
11/23/15 AT 10:18 A.M.

K= 4.00'
:5+56.20
FF:8.00'R

CONC. SIDEWALK
SHEET PILE (TYP.)

CONCRETE BLOCK
RESTROOM

SEPTIC TANK

INFO BOARD
WITH ROOF

DIRT/LIMEROCK

MEAN HIGH WATER LINE
ELEVATION=0.55 FEET
11/23/15 AT 10:18 A.M.

LEGEND

- - - - - 10 - - - - - EXISTING CONTOUR
- 10 — PROPOSED CONTOUR

TO RISER ON BRIDGE

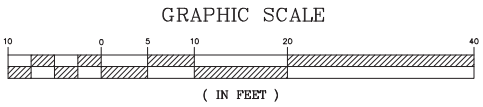
ISSUE DATE: XX-XX-XX	REVISION	SYMBOL	DATE
COMP. FILE No.: N2004		(A) (B)	
STATE PROJECT No.: N2004		(C) (D)	
DESIGNER: RDAVIS/BDD	REVISION	SYMBOL	DATE
DRAWN BY: BDD		(A) (B)	
REVIEWED BY: RDAVIS		(C) (D)	
PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. #73115			
HIGHLAND VIEW BOAT RAMP			
GRADING PLAN			
HIGHLAND VIEW			
BOAT RAMP IMPROVEMENTS			
SHEET NO.			
C102			

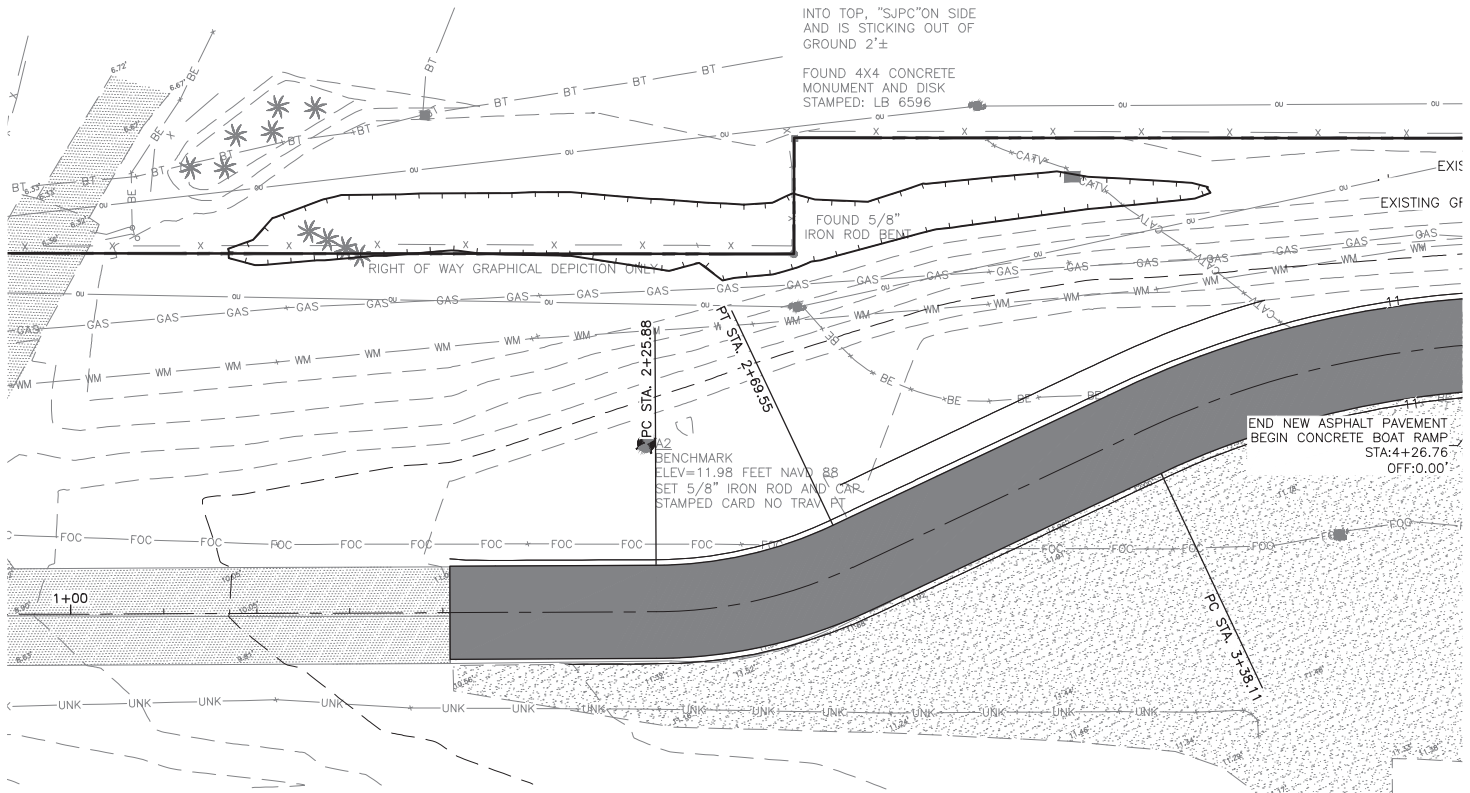
Department of Environmental Protection
Deepwater Horizon Program
Division of Water Restoration
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147

Dewberry | **PREBLE-RISH**
324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200



SAJ-2017-02938 (NW-DEB)
Highland View Boat Ramp
Sheet 13 of 32, June 15, 2018

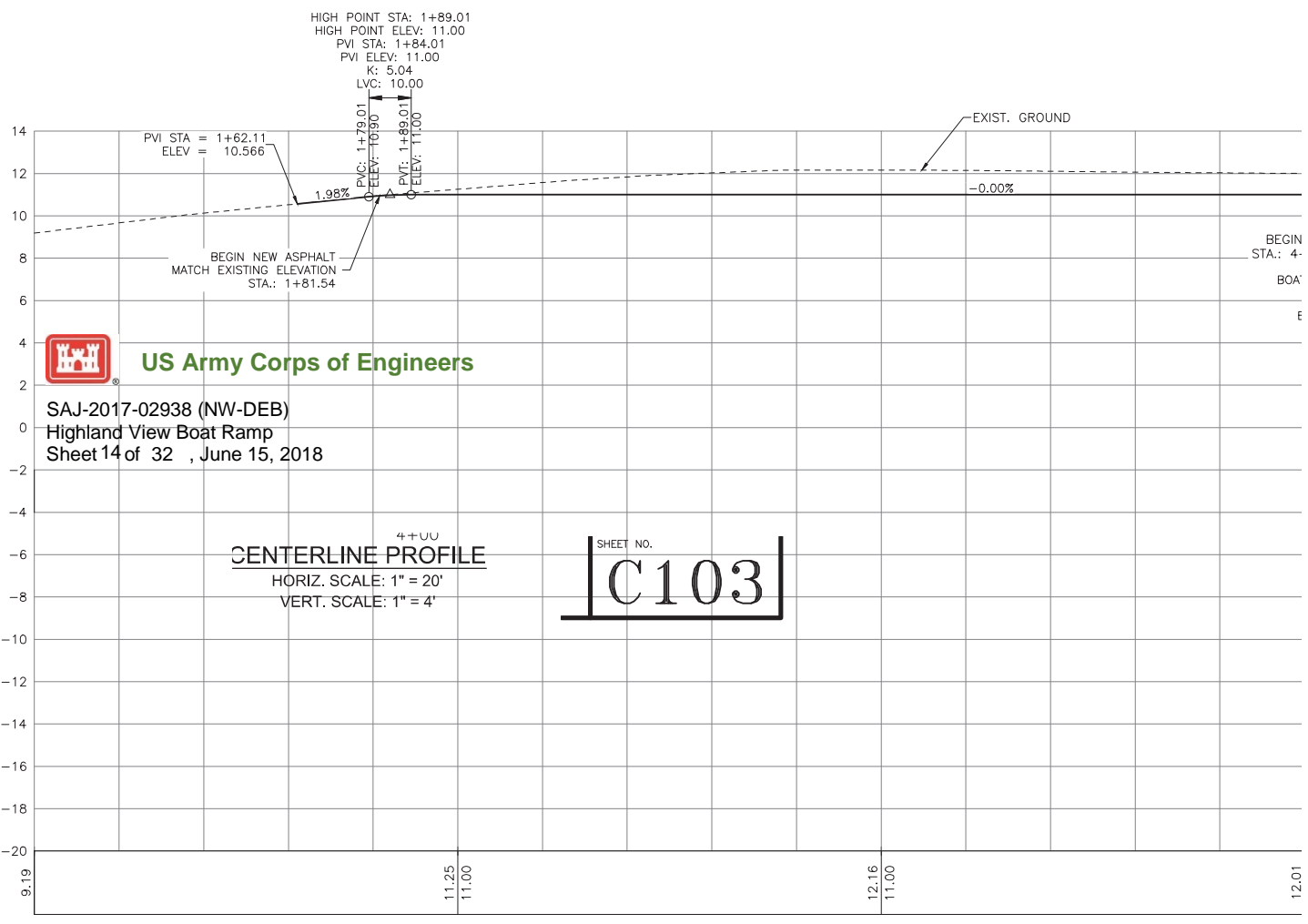
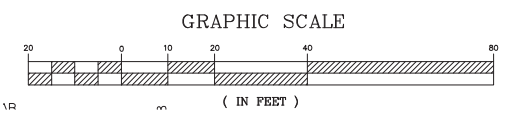




INTO TOP. "S"PC"ON SIDE
AND IS STICKING OUT OF
GROUND 2'±

FOUND 4X4 CONCRETE
MONUMENT AND DISK
STAMPED: LB 6596

BENCHMARK
ELEV=11.98 FEET NAVD 88
SET 5/8" IRON ROD AND CAP,
STAMPED CARD NO TRAV PT



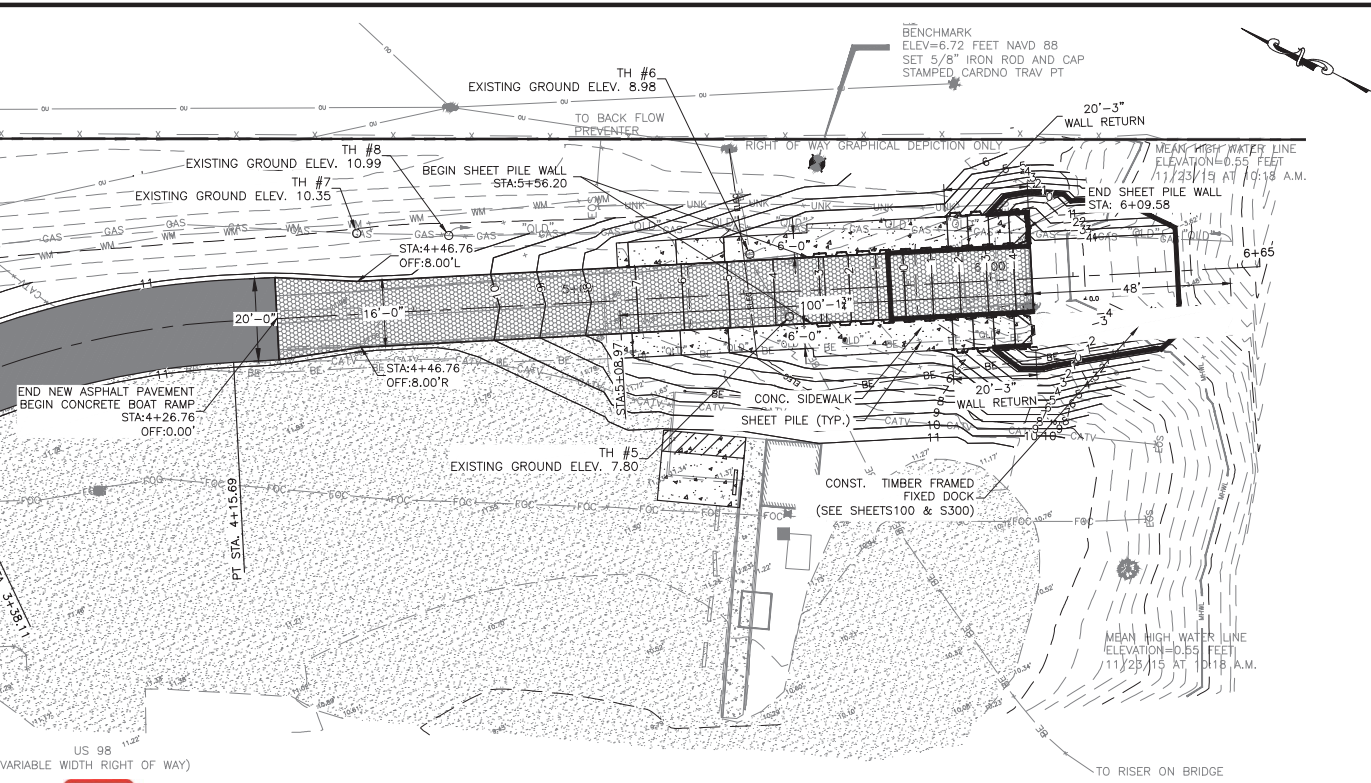
SAJ-2017-02938 (NW-DEB)
Highland View Boat Ramp
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CENTERLINE PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

SHEET NO.
C103

CENTERLINE PR
HORIZ. SCALE: 1" =
VERT. SCALE: 1" =

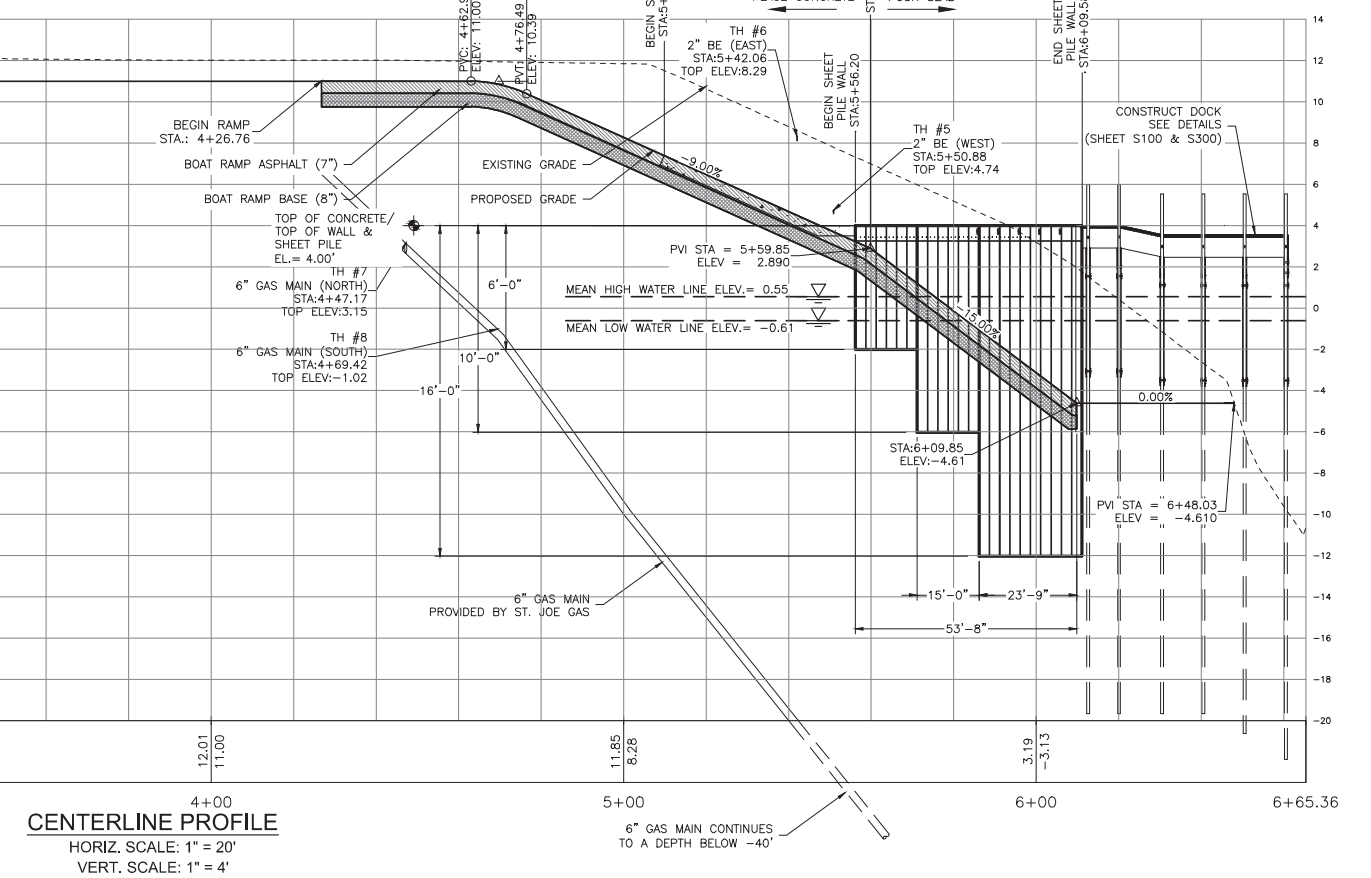
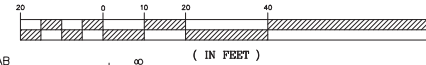
K:\03\275 HIGHLAND VIEW BOAT RAMP NRDA\CIVIL\3DFOLDER\PRODUCTION\05-01-16_XXXXX_XXX.DWG



SAJ-2017-02938 (NW-DEB)
 Highland View Boat Ramp
 Sheet 15 of 32, June 15, 2018

HIGH POINT STA: 4+62.99
 HIGH POINT ELEV: 11.00
 PVI STA: 4+69.74
 PVI ELEV: 11.00
 K: 1.50
 LVC: 13.50
 PVI STA: 5+59.85
 ELEV = 2.890

GRAPHIC SCALE



CENTERLINE PROFILE
 HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 4'

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE: XX-XX-XX	COMP. FILE No: N2004	STATE PROJECT No: N2004
		(C) (D)			(A) (B)			
DESIGNER: RDAVIS/BDD DRAWN BY: BDD REVIEWED BY: RDAVIS Consultant:								
PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. #73115								
PROJECT TITLE HIGHLAND VIEW BOAT RAMP PLAN AND PROFILE HIGHLAND VIEW BOAT RAMP IMPROVEMENTS								
SHEET NO. C103								

Department of Environmental Protection
 Deepwater Horizon Program
 Division of Water Restoration
 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147

Dewberry
PREBLE-RISH
 324 MARINA DRIVE PORT ST. JOE, FL 32458 (850) 227-7200

SHEET NO.

C103

EXISTING GROUND ELEV. 8.98
TH #6

TO BACK FLOW
PREVENTER

EXISTING GROUND ELEV. 10.99
TH #8

EXISTING GROUND ELEV. 10.35
TH #7

BEGIN SHEET PILE WALL
STA:5+56.20

STA:4+46.76
OFF:8.00'L

20'-0"

STA:4+46.76
OFF:8.00'R

END NEW ASPHALT PAVEMENT
BEGIN CONCRETE BOAT RAMP
STA:4+26.76
OFF:0.00'

PT STA. 4+15.69

EXISTING GROUND ELEV. 7.80
TH #5

SHEET PILE (TYP.)

CONC. SIDEWALK

CONST. TIMBER FRAMED
FIXED DOCK
(SEE SHEETS 100 & S300)

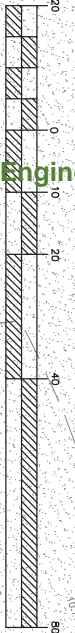
MEAN HIGH WATER LINE
ELEVATION = 0.55 FEET
11/23/19 AT 10:18 A.M.

20'-3"
WALL RETURN

STA: 6+09.58

6+65

GRAPHIC SCALE



US 98
11.32'
VARIABLE WIDTH RIGHT OF WAY



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Highland View Boat Ramp
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TO RISER ON BRIDGE

BENCHMARK
ELEV = 6.72 FEET NAVD 88
SET 5/8" IRON ROD AND CAP
STAMPED CARDNO TRAV PT

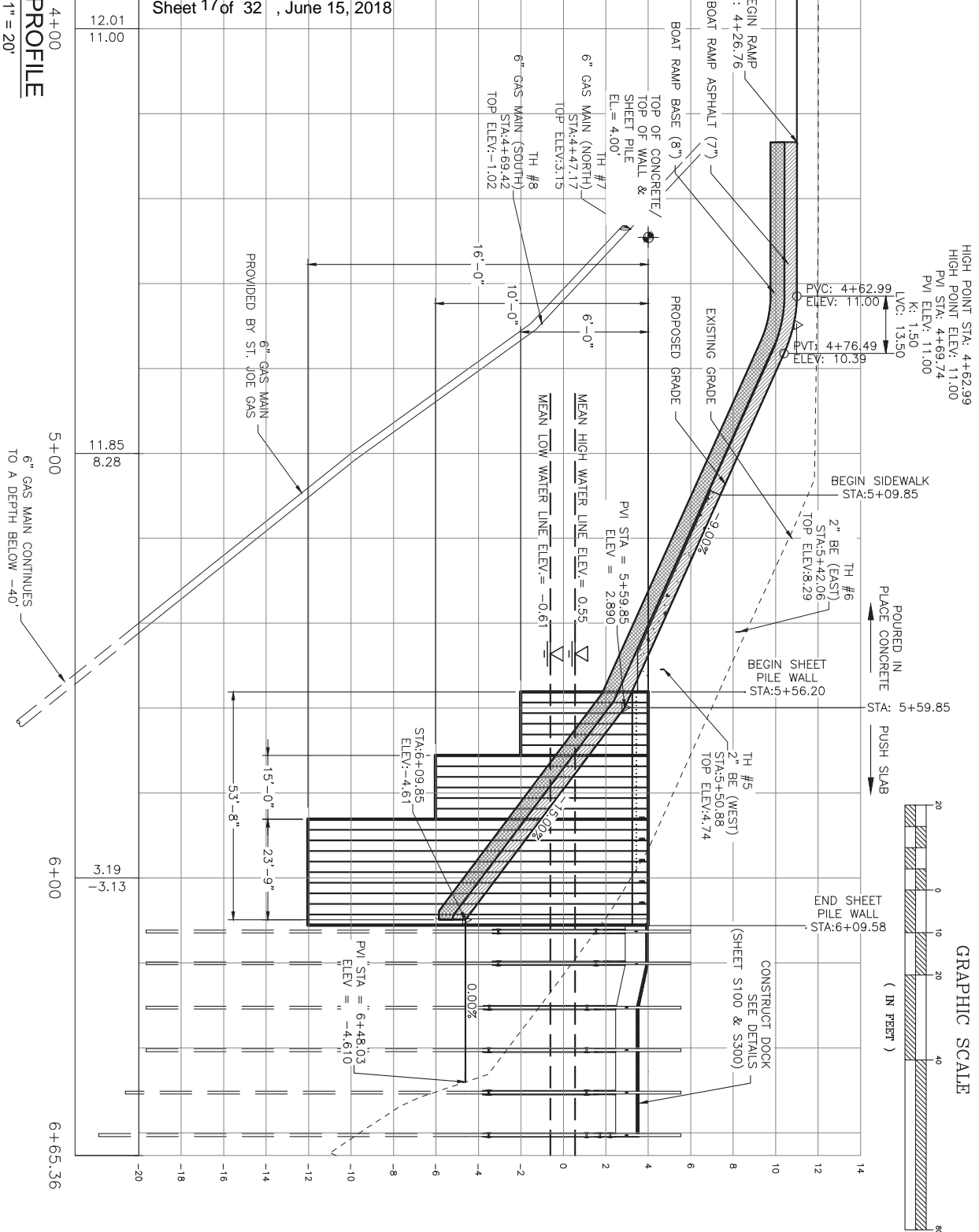




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Highland View Boat Ramp
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CENTERLINE PROFILE
4+00
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



5+00
11.85
8.28
6" GAS MAIN CONTINUES
TO A DEPTH BELOW -40'

6+00
3.19
-3.13

6+65.36

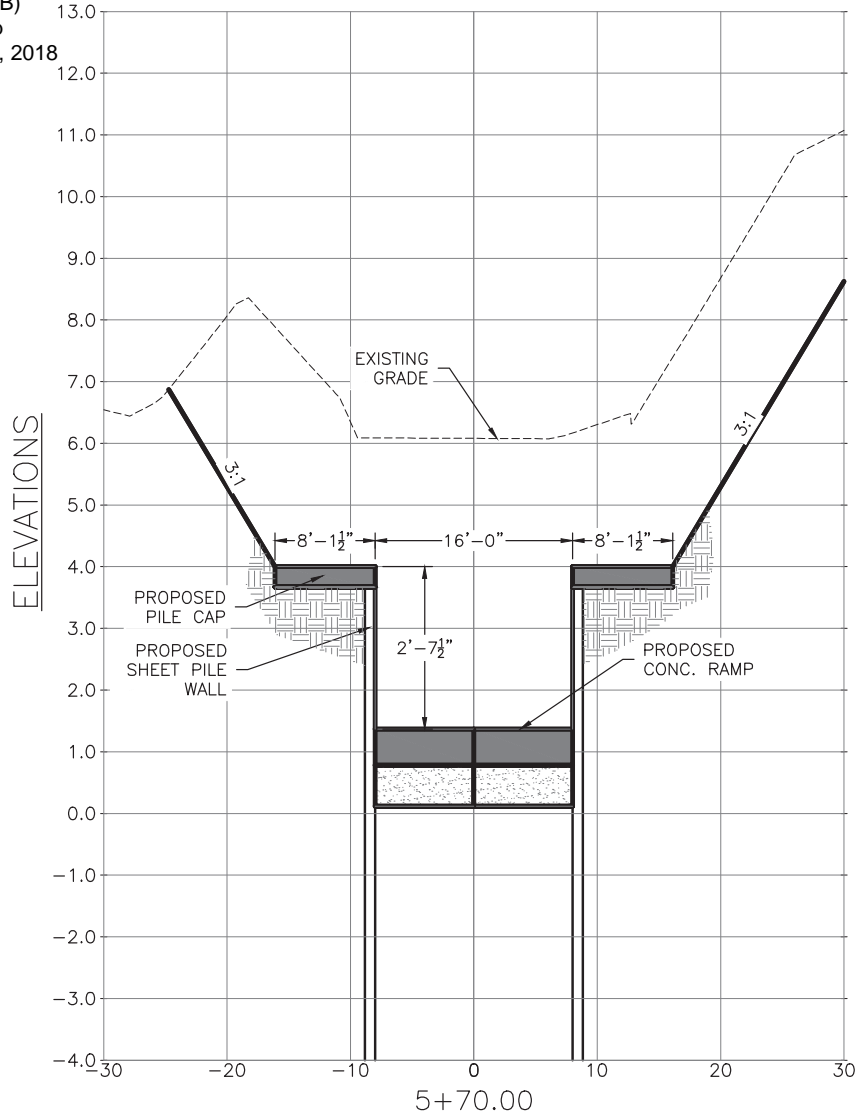
POURED IN PLACE CONCRETE
PUSH SLAB

END SHEET PILE WALL
STA: 6+09.58

CONSTRUCT DOCK
SEE DETAILS
(SHEET S100 & S300)

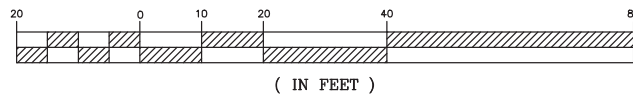
GRAPHIC SCALE
(IN FEET)

SHEET NO. <h1 style="margin: 0;">C103</h1>	HIGHLAND VIEW BOAT RAMP	PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. #73115	DESIGNER : RDAVIS/BDD
	PLAN AND PROFILE		DRAWN BY: BDD
	PROJECT TITLE HIGHLAND VIEW BOAT RAMP IMPROVEMENTS		REVIEWED BY: RDAVIS Consultant :
			324 MARINA DRIVE PORT ST. JO



SECTION
(LOOKING IN THE DIRECTION
OF INCREASING STATIONS)

GRAPHIC SCALE

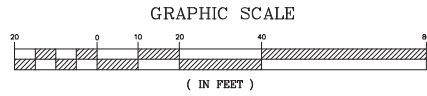
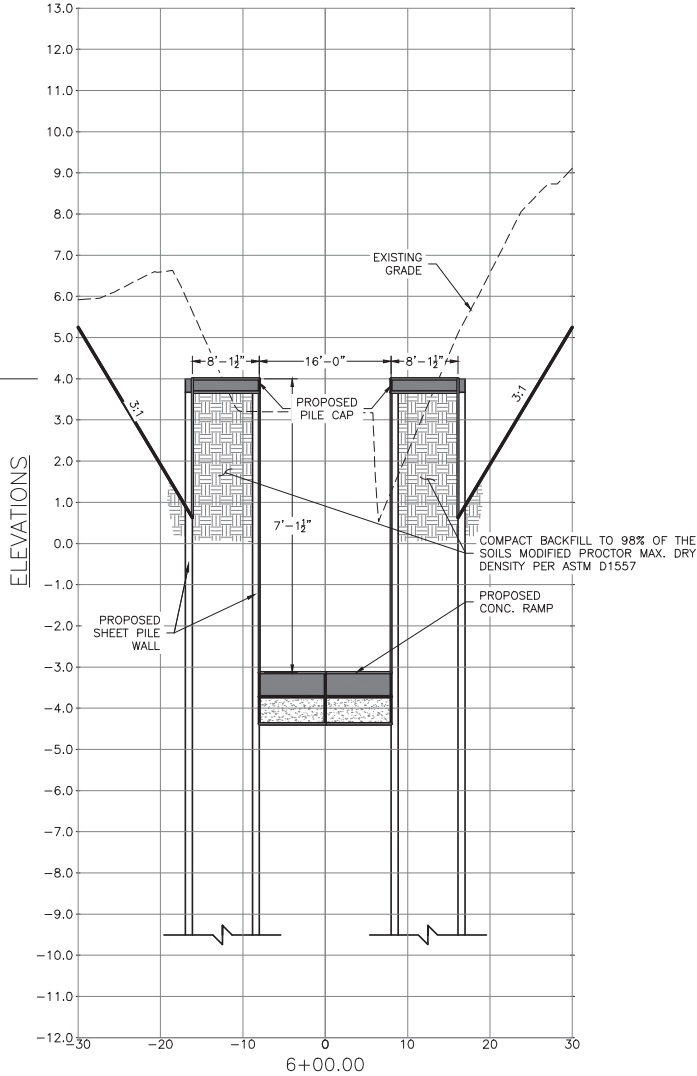


SHEET NO.
C300



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Highland View Boat Ramp
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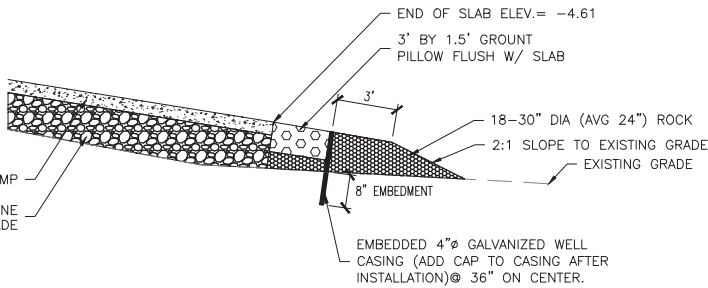
SECTION
(LOOKING IN THE DIRECTION
OF INCREASING STATIONS)

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE: XX-XX-XX	DESIGNER: RDAVIS/BDD	PROFESSIONAL REGISTRATION: ROBERT DAVIS, P.E. #73115	 324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200
		C			A	COMP. FILE No.: N2004	DRAWN BY: BDD		
		D			B	STATE PROJECT No.: N2004	REVIEWED BY: RDAVIS	Consultant:	
						Department of Environmental Protection Deepwater Horizon Program Division of Water Restoration 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147			
SHEET TITLE			PROJECT TITLE						
HIGHLAND VIEW BOAT RAMP			RAMP CROSS SECTION						
			HIGHLAND VIEW						
			BOAT RAMP IMPROVEMENTS						
SHEET NO.						C300			

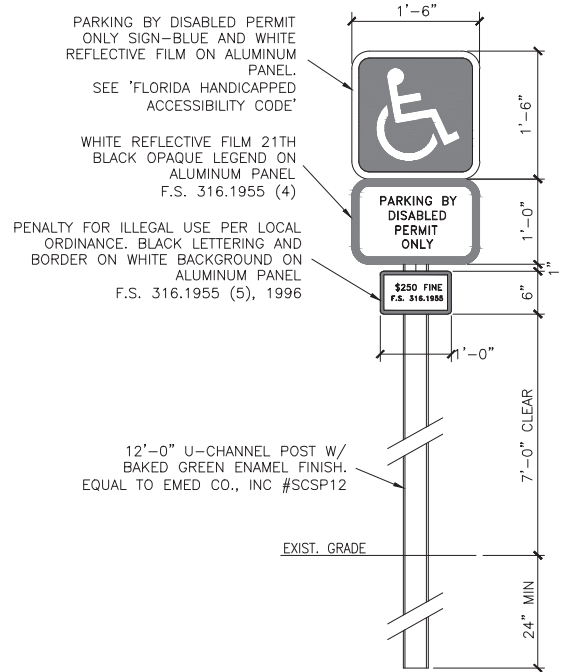


US Army Corps of Engineers

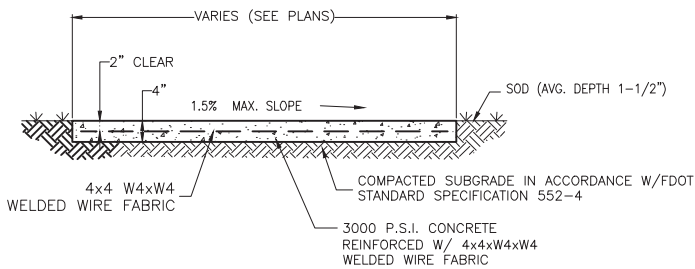
SAJ-2017-02938 (NW-DEB)
 Highland View Boat Ramp
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BOAT RAMP TYPICAL PROFILE
 N.T.S.

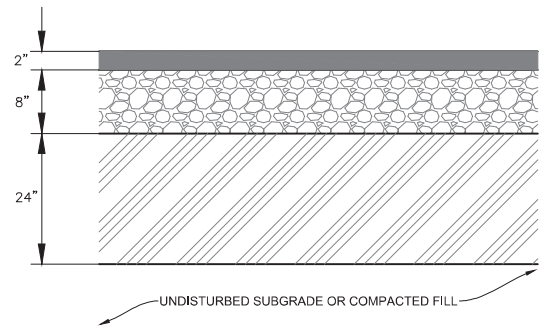


PARKING FOR THE DISABLED SIGN
 N.T.S.



NOTE: 1) REFER TO FDOT STANDARD INDEX 310 FOR EXPANSION JOINTS.
 2) SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6" THICK.

TYPICAL CONCRETE SIDEWALK DETAIL
 N.T.S.



SURFACE COURSE: TYPE SP 9.5 ASPHALTIC CONCRETE (2" MIN. COMPACTED THICKNESS)
 BASE COURSE LIMEROCK (8" MIN. COMPACTED THICKNESS WITH PRIME COAT), OR OTHER OPTIONAL BASE GROUP 6 MATERIAL. (LBR=100) TO 98% MODIFIED PROCTOR
 SUBGRADE MIN. 95% MODIFIED PROCTOR FOR 24" MIN. DEPTH

TYPE SP 9.5 ASPHALTIC CONCRETE SURFACE (2" MIN. COMPACTED THICKNESS) SHALL BE PLACED IN MULTIPLE LAYERS. EACH LAYER SHALL HAVE A MINIMUM COMPACTED THICKNESS OF 1 INCH.

THE FIRST LAYER SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF THE BASE COURSE. THE FINAL LAYER SHALL BE PLACED AT THE COMPLETION OF THE PROJECT AND SHALL MEET ALL REQUIREMENTS (INCLUDING MIXING AND PLACING REQUIREMENTS) AS SET FORTH BY FDOT FOR AN ASPHALTIC CONCRETE SURFACE COURSE TYPE SP 9.5.

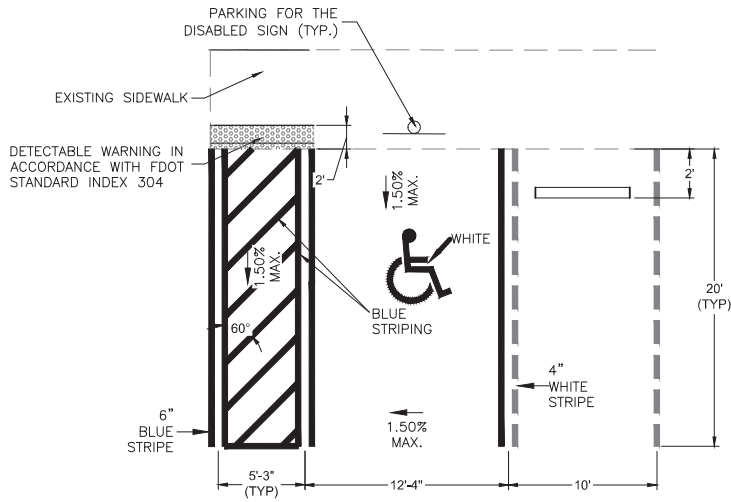
PROVIDE BITUMINOUS TACK COAT BETWEEN ASPHALT COURSES

TYPICAL PAVEMENT SECTION
 N.T.S.



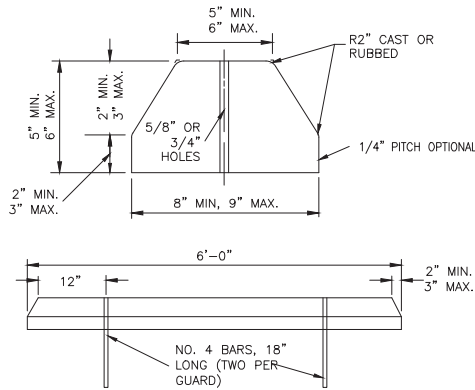
US Army Corps of Engineers

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 Highland View Boat Ramp
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- NOTE:
 1. ALL STANDARD SPACES SHALL HAVE WHITE STRIPING.
 2. ALL HANDICAP SPACES SHALL HAVE THERMOPLASTIC STRIPING.

TYPICAL STRIPING AND PARKING DIMENSIONS FOR PERPENDICULAR PARKING
 N.T.S.



CONCRETE BUMPER GUARD
 N.T.S.

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE: XX-XX-XX	DESIGNER: RDAVIS/BDD	PROFESSIONAL REGISTRATION
		C			A	COMP. FILE No.: N2004	BDD	ROBERT DAVIS, P.E.
		D			B	STATE PROJECT No.: N2004	REVIEWED BY: RDAVIS	P.E. #73115
Department of Environmental Protection Deepwater Horizon Program Division of Water Restoration 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147			Dewberry 324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200			PREBLE-RISH		
SHEET TITLE			PROJECT TITLE			CONSULTANT :		
HIGHLAND VIEW BOAT RAMP			GENERAL DETAILS					
			HIGHLAND VIEW					
			BOAT RAMP IMPROVEMENTS					
SHEET NO.								
D100								

GENERAL NOTES

I. GENERAL:

- A. UNLESS OTHERWISE SPECIFIED, ALL WORK AND MATERIALS SHALL CONFORM TO "FLORIDA BUILDING CODE" (FBC) REQUIREMENTS, CURRENT EDITION.
- B. DO NOT SCALE DRAWINGS. USE DIMENSIONS AND DETAILS.
- C. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO BEGINNING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO PROCEEDING WITH THE WORK.
- D. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THESE CONTRACT DOCUMENTS.
- E. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND FOR CONFORMANCE WITH THE HEALTH AND SAFETY PROVISIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER-OF-RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR, OR THEIR EMPLOYEES WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.
- F. **SUBMITTALS:**
 1. REPRODUCTION OF CONTRACT DOCUMENTS FOR CONSTRUCTION AND/OR SHOP DRAWINGS WILL NOT BE PERMITTED.
 2. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE CIVIL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER-OF-RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND THE DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
 3. SUBMIT THE FOLLOWING FOR REVIEW PRIOR TO BEGINNING WORK:
 - a. CONCRETE MIX DESIGN FOR CONCRETE SLABS.
 - b. CONCRETE MIX DESIGN FOR GROUT PILLOWS.
 - c. MANUFACTURER'S DATA SHEETS FOR ALL PRODUCTS PROPOSED FOR USE ON THE PROJECT.
 - d. MANUFACTURERS CERTIFICATION THAT EPOXY COATED REINFORCEMENT MEETS SPECIFIED REQUIREMENTS.
 - e. EPOXY REBAR TOUCH UP COATING CUT SHEETS AND APPLICATION INSTRUCTIONS.
 - f. GROUT PILLOW CUT SHEETS AND INSTALLATION INSTRUCTIONS.
 - g. HARDWARE SUPPLIER CERTIFICATION THAT STAINLESS STEEL MEETS SPECIFIED REQUIREMENTS.
 - h. CONCRETE TEST REPORTS.
 - i. STANDARD MANUFACTURER'S WARRANTIES FOR ALL MANUFACTURED PRODUCTS USED IN THE PROJECT.
 - j. SUBMIT REQUESTS FOR SUBSTITUTIONS OF PRODUCTS. INCLUDE ALTERNATE MANUFACTURERS DATA SHEETS AND THE REASON FOR THE REQUESTED SUBSTITUTION FOR REVIEW.

II. DESIGN LOADS

- A. LIVE LOADS: N/A
- B. BUILDING CATEGORY: N/A
- C. WIND LOAD: N/A

III. MATERIALS AND CONSTRUCTION:

A. DESIGN INTENT

1. THE REINFORCED CONCRETE BOAT RAMP SHOWN ON THESE DRAWINGS WILL BE CONSTRUCTED THROUGH A COMBINATION OF PUSH-SLAB AND CAST-IN-PLACE CONSTRUCTION METHODS. THE LOWER (IN WATER) PORTIONS OF THE RAMP ARE TO BE CAST ON SHORE (IN THE DRY) AND PUSHED INTO PLACE UPON THE CRUSHED STONE BASE. THE UPPER RAMP SECTION SHALL THEN BE CAST IN PLACE AGAINST THE LOWER PORTIONS. CONSTRUCTION METHODS ARE RECOMMENDATIONS ONLY. CONCRETE MAY NOT BE CAST IN PLACE UNDERWATER. OTHER METHODS OF CONSTRUCTION MAY BE APPROVED UPON SUBMITTAL TO ENGINEER OF RECORD.
2. THE LOWER RAMP SECTIONS SHALL CONSIST OF THE 15% SLOPED SECTIONS AND SHALL BE CONSTRUCTED USING PUSH-SLAB METHODS. THESE SECTIONS SHALL BE FORMED AND POURED ON DRY LAND ON A THIN LAYER OF SAND OR SMALL GRAVEL, LINED WITH A 6 MIL POLYETHYLENE FILM. A TIMBER PUSH BEAM SHALL BE SECURELY BOLTED IN PLACE TO PROVIDE A PUSHING EDGE FOR THE SLAB. THE PUSHING SHALL BE ACCOMPLISHED WITH AN APPROPRIATELY POWERED DOZER SQUARE TO THE PUSHING EDGE WITH THE BLADE CENTERED ON THE TIMBER. USE TIMBER SHIMS TO PROVIDE FULL BEARING.
3. THE UPPER RAMP SECTION SHALL CONSIST OF THE 9% SLOPED SECTION AND SHALL BE CONSTRUCTED USING CAST-IN-PLACE METHODS. WITH THE PUSH-SLAB PORTIONS IN FINAL POSITION, THE CAST-IN-PLACE PORTION SHALL THEN BE CONSTRUCTED. THE BASE MATERIAL SHALL BE REGRADED AND COMPACTED, FORMS SET, PUSH BEAM REMOVED FROM THE TOP OF THE PUSH SLAB, REINFORCEMENT PLACED AND SECURED, AND CONCRETE POURED. CAST CONCRETE ON A FALLING TIDE. AS SOON AS WATER LEVEL IS BELOW BOTTOM END OF SLAB, INSTALL FABRIC, PLACE REBAR AND CONCRETE IMMEDIATELY.

B. SITE PREPARATION AND STABILIZATION:

1. ALL SILT, MUD AND LOOSE MATERIAL ENCOUNTERED SHALL BE UNDERCUT AND REPLACED WITH 2-4" SIZE CRUSHED STONE TO PROVIDE AN ADEQUATE SUBBASE TO THE ELEVATION OF THE BOTTOM OF THE 8" BASE.
2. PLACE MINIMUM OF 8" OF COMPACTED CRUSHED STONE BASE OVER SUBBASE (#57 STONE). COMPACT TO LBR = 100.
3. INSTALL GEOTEXTILE FILTER FABRIC (TYPE D-3, FDOT STD INDEX 199) BETWEEN CRUSHED STONE AND CAST-IN-PLACE CONCRETE RAMP SECTION.
4. GRADE ALL AREAS REQUIRED TO ACHIEVE THE DESIGN SUBGRADES AND FINAL GRADES AS DEFINED BY THE DRAWINGS, AS WELL AS ALL AREAS DISTURBED DURING CONSTRUCTION OPERATIONS AT THE END OF THOSE OPERATIONS.

C. CONCRETE MATERIALS:

1. ALL CONCRETE WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE'S "STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318-08).
2. CHAMFER ALL CONCRETE EXPOSED EDGES $\frac{1}{2}$ " UNLESS INDICATED OTHERWISE.
3. TOP SURFACE OF BOAT RAMP SLABS SHALL BE FINISHED WITH A HERRINGBONE PATTERN OF 1" DEEP GROOVES. GROOVES SHALL BE SPACED AT 3", BEGINNING AT RAMP CENTER AND SLOPE DOWNWARDS AT 60° ANGLE TO RAMP EDGE TO DRAIN WATER.
4. **RAMP SLAB CONCRETE:**
 - a. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS OF 6,000 PSI.
 - b. CONCRETE MIX SHALL HAVE 1%-5% AIR ENTRAINMENT.
 - c. PROVIDE CORROSION INHIBITING ADMIXTURE IN THE MIX. THE ADMIXTURE SHALL BE A 30% SOLIDS CONTENT CALCIUM NITRATE BASED ADMIXTURE THAT MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM C-494.
 - d. COURSE AGGREGATE SHALL BE CRUSHED STONE CONFORMING WITH ASTM C33, SIZE 57. DO NOT USE LIMESTONE AGGREGATE.
 - e. PROPERLY WORK, PLACE, CONSOLIDATE, SCREED AND BULL-FLOAT THE CONCRETE SO THE AGGREGATE IS APPROXIMATELY $\frac{1}{2}$ " BELOW THE SLAB SURFACE.
 - f. ALLOW CONCRETE TO CURE FOR 7 DAYS. UNDER NO CONDITION SHALL THE SLAB BE MOVED PRIOR TO 7 DAYS FROM THE DATE OF THE POUR.
 - g. **QUALITY ASSURANCE TESTING:**
 - (1) OBTAIN ONE SET OF SAMPLES FROM EACH CONCRETE POUR. EACH SAMPLE SHALL CONSIST OF FOUR TEST CYLINDERS FOR COMPRESSIVE TESTING AND SHALL BE TESTED ON THE FOLLOWING SCHEDULE:
 1. CYLINDER AT 7 DAYS
 2. CYLINDERS AT 28 DAYSRETAIN LAST CYLINDER FOR FUTURE TESTING
 - (2) PROVIDE TEST REPORTS TO ENGINEER AFTER EACH TEST.
 - (3) TEST RESULTS SHALL MEET THE REQUIREMENTS OF ACI 318.
 - (4) TESTING SHALL BE PAID FOR BY THE CONTRACTOR.

5. GROUT PILLOW CONCRETE:

- a. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS OF 2,500 PSI.
- b. CONCRETE MIX SHALL INCLUDE SAND AGGREGATE AND TYPE II CEMENT AS RECOMMENDED BY THE GROUT PILLOW MANUFACTURER.

A. REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, EPOXY COATED.
2. REBAR SHALL CONFORM TO ASTM A775/A775M-07b, "STANDARD SPECIFICATION FOR EPOXY-COATED STEEL REINFORCING BARS".
3. AFTER PLACING REBAR, APPLY PRODUCT #220 (EPOXY REBAR TOUCH UP COATING) MANUFACTURED BY EPOXY.COM (321-206-1833) TO PREVENT CORROSION AT ALL LOCATIONS WHERE EPOXY COATING IS DAMAGED OR CRACKED.
4. PROVIDE ALL REINFORCING STEEL FULL LENGTH. DO NOT SPLICE REBARS UNLESS INDICATED OTHERWISE.
5. STORE AND PROTECT REINFORCING STEEL TO AVOID DAMAGE TO THE EPOXY COATING. STORE COVERED UNDER A VISQUEEN SHEET. IMMEDIATELY PRIOR TO INSTALLATION, PRESSURE WASH REINFORCING STEEL TO REMOVE ALL SALT DEPOSITS AND OTHER DELETERIOUS CONTAMINATION.

D. HARDWARE AND ANCHORS:

1. ALL HARDWARE, INCLUDING ANCHOR BOLTS, COIL CHAIN, EYEBOLTS, NUTS, WASHERS AND PLATES SHALL BE TYPE 304 STAINLESS STEEL.
2. THE STAINLESS STEEL COIL CHAIN SHALL HAVE AN ULTIMATE STRENGTH OF AT LEAST 15,000 POUNDS.
3. CAST IN PLACE $\frac{1}{2}$ " STAINLESS STEEL ANCHOR BOLTS SHALL BE FORMED INTO THE PUSH-SLAB EDGE TO PROVIDE FASTENING FOR THE TIMBER PUSH BEAM. REMOVE PUSH BEAM AND CUT OFF EXPOSED PORTION OF ANCHOR BOLTS PRIOR TO INSTALLING THE NEXT SECTION OF SLAB.

E. GROUT PILLOWS:

1. FABRIFORM GROUT PILLOWS SHALL BE PROVIDED BY "CONSTRUCTION TECHNIQUES" OF CLEVELAND, OHIO (800-563-5047), OR EQUAL, AS APPROVED BY THE ENGINEER.
2. INSTALL GROUT PILLOWS PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
3. GROUT PILLOWS AT RAMP SIDES BE 2'x2' AND 3'x1 $\frac{1}{2}$ ' AT RAMP END. GROUT PILLOWS SHALL NOT BE PLACED NEXT TO SHEET PILE WALL.

F. EROSION AND TURBIDITY CONTROL: SEE SHEET C100



US Army Corps of Engineers

SAJ-2017-02938 (NW-DEB)
Highland View Boat Ramp
Sheet 22 of 32, June 15, 2018

SHEET NO.

D101

STRUCTURAL NOTES:

1) CONTRACTOR'S QUALIFICATIONS:

Only Contractors who have prior experience in seawall construction and driving steel sheet piles will be allowed to construct this project. Contractors must possess a Florida Contractor's license for this type of work, and must be bonded and insured in accordance with the General Conditions of the Bidding and Contract Documents.

The successful bidder must provide the names and contact information for all projects completed in the past 12 months with a contract value of \$100,000 or greater so that the owner can verify references. Bad references from previous clients may result in a rejection of the contractor's bid.

2) DESIGN LOADS:

a) Sheet pile walls for project were designed according to the following loads only:

- Live and Dead Loads
1. The self-weight of the structural units.
 2. Horizontal Earth Loads associated with the native soils
 3. Live load surcharge equal to 200 psf

b) Dock for this project was designed according to the following loads only:

- Live and Dead Loads
1. Dock Vertical Live Loads – 100 psf uniform and 400 lb. point load
 2. Boat Wave (Non-Breaking) – 2 ft. high wave, 20 ft. long
 3. Wind Wave – not considered due to protected openings
 4. Wind Loads – associated with a 4 fps current
 5. Boat Impact – resulting from a 1.5 ft./sec dock normal speed
 6. Design Boat – 25 ft. long 7 ft. wide, 7,500lb
 7. Self-Weight of the structure.

3) CONCRETE FOR WALKWAYS:

Walkways shall be cast-in-place, use the following materials:

- a) Concrete – Use a 4,000 psi 28 day breakings strength concrete, refer to the technical specifications for details.
- b) Reinforcing Steel – not required

4) SHEET PILING & TIE BACK SYSTEM:

Sheet Piling:

Use a steel sheet pile such as Skyline Steel's SCZ21 and having the following minimum structural properties:

- Thickness .375 inches
- Section Modulus 19.87 cubic inches per foot of wall
- Moment of Inertia 100.55 in⁴ per foot of wall
- Made of ASTM A 572 Grade 50 Steel

Sheet Pile Coating:

- Shop Applied Coatings – a 12 to 14 mill coating of poly-urea or coal tar epoxy shall be applied at the factory to both the front and back sides of the sheet piles, top to bottom.
- Touch Up Coatings – Touch up damaged coating and uncoated areas, after all welding is completed, with poly-urea or epoxy coal tar as manufactured by "Krylon" or "Rust-Oleum". Brush on 20 mills (DFT); two coats, 10 mills each.

Installation:

Install pile guides and frames to ensure that piles are maintained in the proper horizontal and vertical alignment. Submit pile installation plan to Engineer prior to construction and obtain his approval before initiating construction. Install piles in accordance with Manufacturer's literature.

It should be noted that dense fine sands exists which may make installation difficult (read the Soils Report). It is the sole responsibility of the Contractor to provide the equipment and means necessary to install sheet piling to the specified tip elevation.

Tie Back Rods:

Use stainless steel "all-thread" rod type 304 of the size shown on the drawings. Use stainless steel nuts and a 4" square, 3/8" thick stainless steel (304) plate washer under each nut or bolt head.

5) FABRICATION AND WELDING:

c) Fabrication and welding shall be done in a shop specializing in this type of work. Contractors who want to perform this work "in-house" will be required to show proof of competency. Proof of competency will include a description of the location and facilities where the work will be performed, names and certifications of the individuals who will perform the fabrication work, and a list of previously completed projects that demonstrate a level of competency commensurate with this project.

d) Conduct welding (if required) in the shop to the extent possible.

e) Shop welding may be done by electric arc using "stick" or "MIG" welding equipment (FCAW or GMAW). Field welding (if required) shall be done with portable welding equipment, by a person who is experienced and licensed to do this type of work using E 70 XX electrodes.

f) The contractor is required to provide shop drawing to the Engineer for his review. Please allow one week for review.

6) SUBSURFACE GEOLOGICAL CONDITIONS:

The contractor shall read and become familiar with the Geotechnical Report prepared for this project by Environment and Geotechnical Specialists, Inc. (file no. 319-05-16-01) which is appended to the bidding and contract documents.

7) TIMBER DOCK MATERIALS OF CONSTRUCTION:

Lumber:

- Use rough cut lumber for bents and bracing.
- Use rough cut or dressed lumber (at contractor's option) for stringers

Stringers, bents & bracing:

Use only Visually Graded, No.2, Solid Sawn Southern Pine lumber having the following minimum design properties:

- Bending Fb=1,050 psi
- Tension Ft=700 psi
- Shear (Perpendicular) Fv=175 psi
- Compression (Parallel) Fc=1,450 psi
- Modulus of Elasticity E=1,600,000 psi

Piles: Use only Treated Round Southern Pine Timber Piles conforming to ASTM D25 and having a tip diameter of 7" and the following minimum allowable stress design values:

- Bending Fb=2,400 psi
- Shear (Perpendicular) Fv=110 psi
- Compression (Parallel) Fc=1,200 psi
- Compression (Perpendicular) Fcp = 250 psi
- Modulus of Elasticity E=1,600,000 psi

Lumber shall be treated by an AWP accredited, treated wood products manufacturer, in accordance with the following:

- a. Stringers & bents – Use Category UC4B or 4C
- b. Bracing and Piles – Use Category UC5A, 5B or 5C

Bolts: Use only stainless steel type 304 bolts (or "all-thread") and associated hardware where bolted connection are called for in these plans. The "lead-hole" diameter shall be 1/16" larger than the bolt. Use stainless steel nuts and heavy duty stainless steel washer, tighten nut securely.

Decking – Use 5/4" thick "Lumberock" synthetic decking. Submit color charts to owner and obtain his approval prior to ordering. Install decking in strict accordance with the manufacturer's literature.

Deck Screws: Use only #8 x 3.5" long, color match (coated), self-drilling, serrated saw thread, steel screws with star drive heads; 2 per deck/stringer intersection.



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Highland View Boat Ramp
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DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
		(C)			(D)
ISSUE DATE: XX-XX-XX	COMP. FILE No.: N2004	STATE PROJECT No.: N2004	DESIGNER : RDAVIS/BDD	DRAWN BY: BDD	REVIEWED BY: RDAVIS
PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. #73115			Consultant : Dewberry 324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200		
HIGHLAND VIEW BOAT RAMP			BOAT RAMP DETAILS AND NOTES		
SHEET TITLE			PROJECT TITLE		
HIGHLAND VIEW			BOAT RAMP IMPROVEMENTS		
SHEET NO. D101					

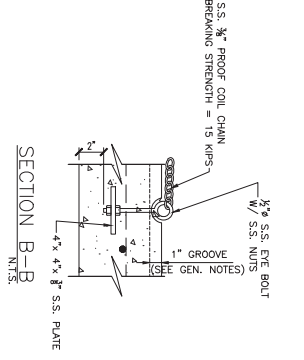
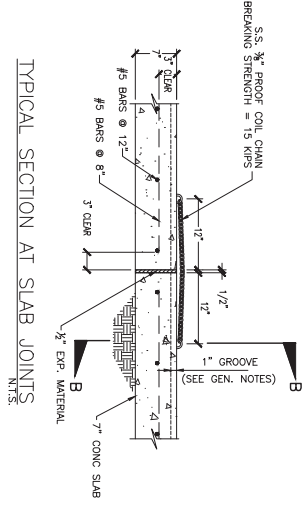
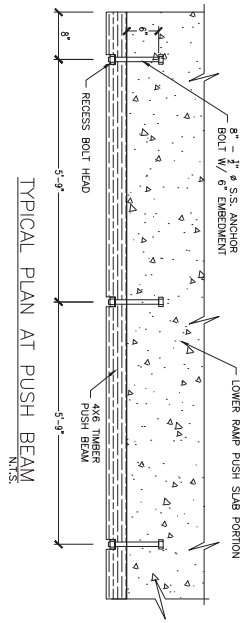
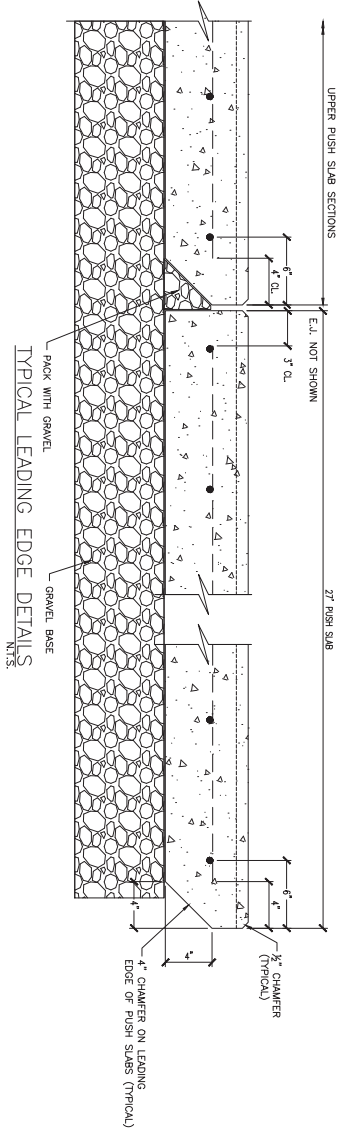
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Division of Water Restoration
3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147





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 Highland View Boat Ramp
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SLAB DETAILS
 N.T.S.

SHEET NO. D102	HIGHLAND VIEW BOAT RAMP	PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. #73115	DESIGNER : RDAVIS/BDD	ISSUE DATE: XX-XX-XX	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
	BOAT RAMP SLAB DETAILS		DRAWN BY: BDD	COMP. FILE No.: N2004	(A)			(C)		
	HIGHLAND VIEW BOAT RAMP IMPROVEMENTS		REVIEWED BY: RDAVIS	STATE PROJECT No.: N2004	(B)			(D)		
			Consultant :			Department of Environmental Protection Deepwater Horizon Program Division of Water Restoration 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147				
			324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7209							

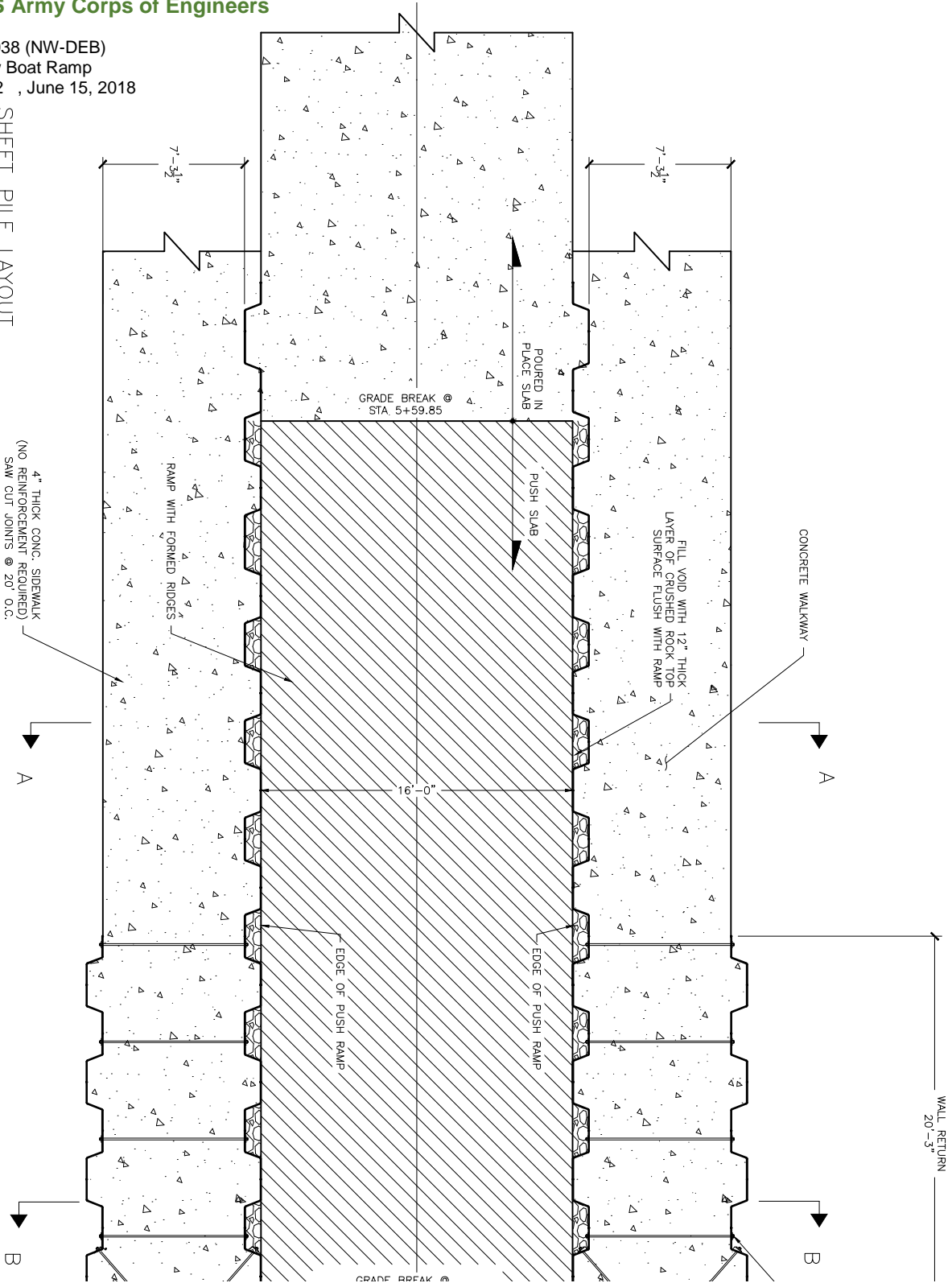


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SHEET PILE LAYOUT
SCALE: 1/4" = 1'

SCALE: 1/4" = 1'



4" THICK CONC. SIDEWALK
(NO REINFORCEMENT REQUIRED)
SAW CUT JOINTS @ 20' O.C.

A

B

CONCRETE WALKWAY

A

B

WALL RETURN
20'-3"

GRADE BREAK @
STA. 5+59.85

16'-0"

EDGE OF PUSH RAMP

EDGE OF PUSH RAMP

POURED IN
PLACE SLAB

PUSH SLAB

7'-3 1/2"

7'-3 1/2"

FILL VOID WITH 12" THICK
LAYER OF CRUSHED ROCK TOP
SURFACE FLUSH WITH RAMP

RAMP WITH FORMED RIDGES

SHEET PILE LAYOUT
SCALE: 1/4" = 1'

SHEET NO.

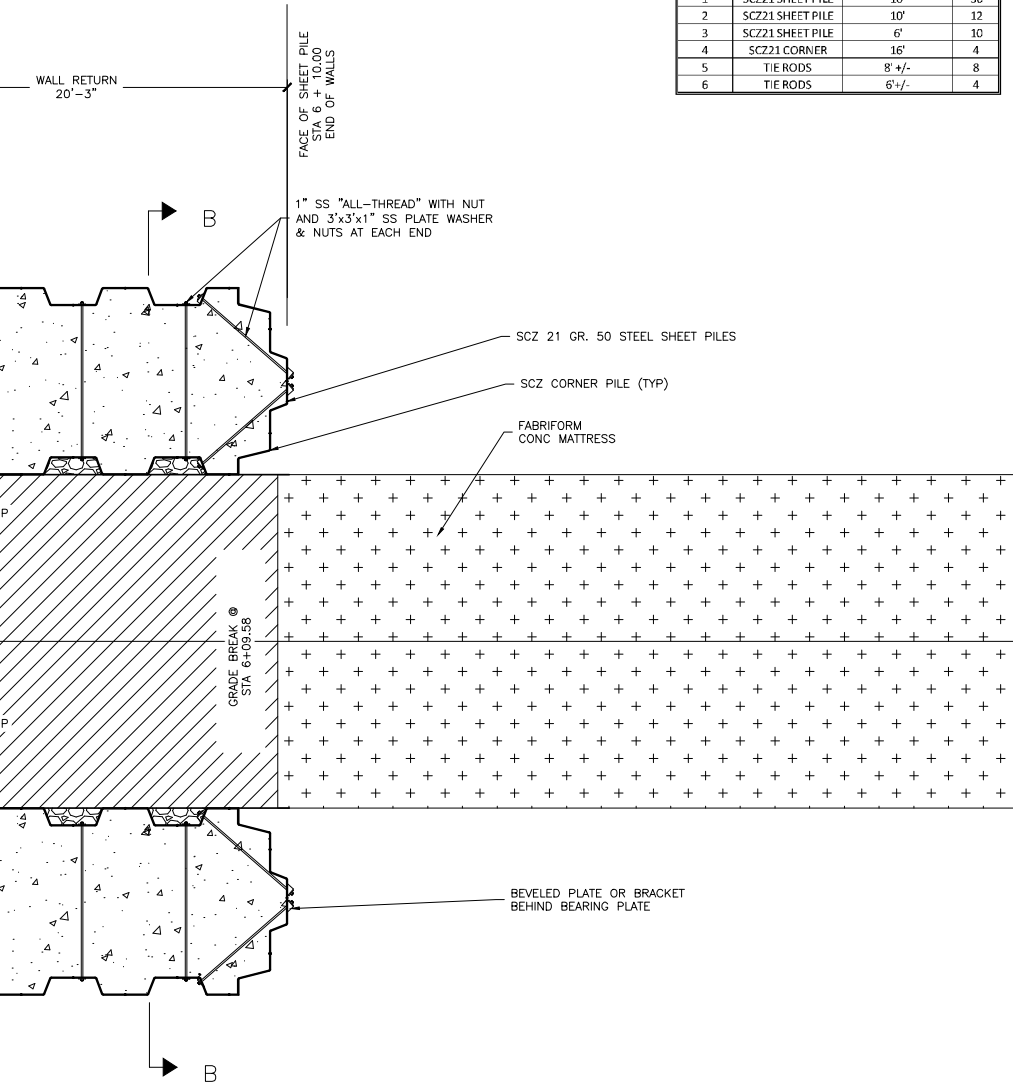
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 Highland View Boat Ramp
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No	ITEM	LENGTH (FT)	QTY
1	SCZ21 SHEET PILE	16'	36
2	SCZ21 SHEET PILE	10'	12
3	SCZ21 SHEET PILE	6'	10
4	SCZ21 CORNER	16'	4
5	TIE RODS	8 +/-	8
6	TIE RODS	6 +/-	4



SYMBOL	REVISION	DATE
SYMBOL	REVISION	DATE
SYMBOL	REVISION	DATE
SYMBOL	REVISION	DATE

ISSUE DATE: XX-XX-XX
 COMP. FILE No.: N2004
 STATE PROJECT No.: N2004

DESIGNER : RDAVIS/BDD
 DRAWN BY: BDD
 REVIEWED BY: RDAVIS

PROFESSIONAL REGISTRATION
 ROBERT DAVIS, P.E.
 P.E. #73115

Consultant :

Dewberry 324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200

FRIBBLE-RISH

Department of Environmental Protection
 Deepwater Horizon Program
 Division of Water Restoration
 3900 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2147

HIGHLAND VIEW BOAT RAMP
 SHEET PILE LAYOUT
 HIGHLAND VIEW
 BOAT RAMP IMPROVEMENTS

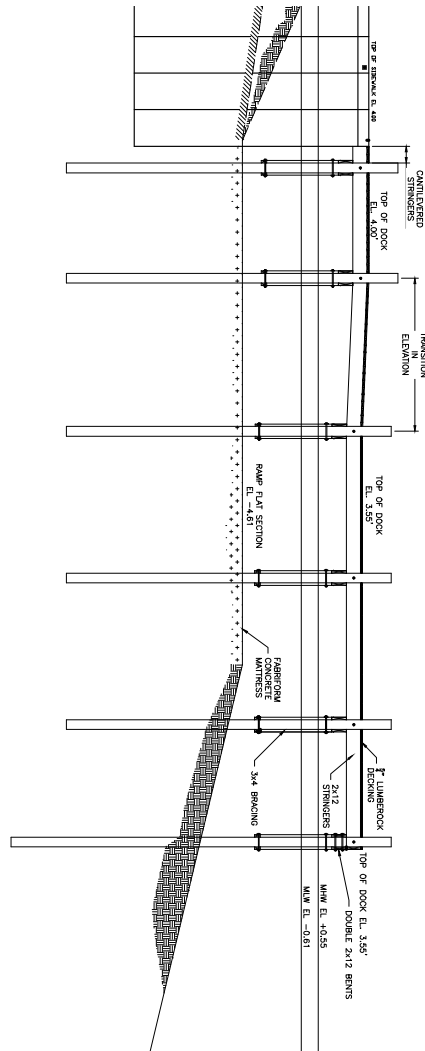
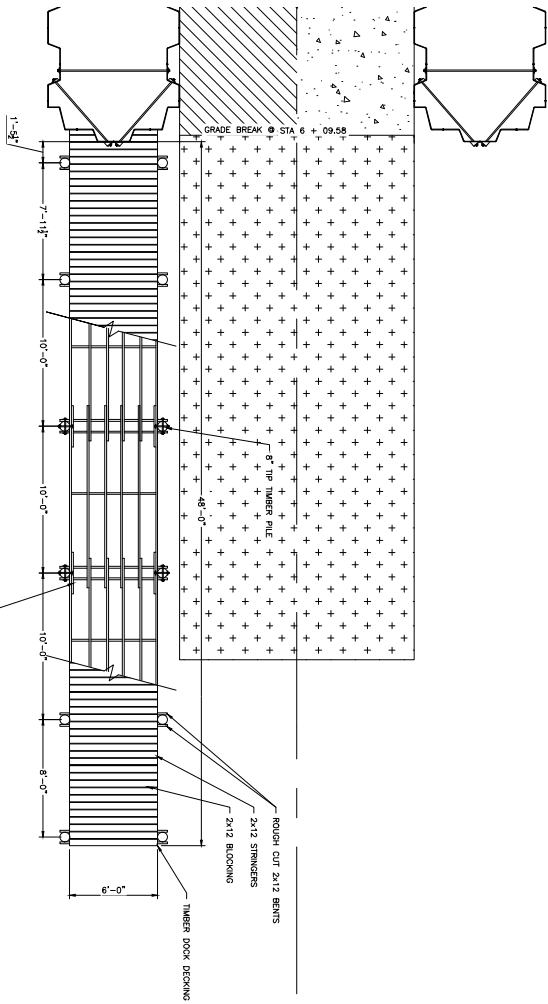
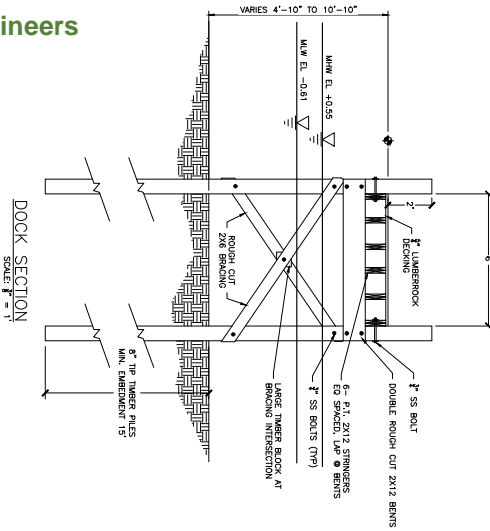
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- EL. 6.00
- EL. 5.00
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- EL. 3.00
- EL. 2.00
- EL. 1.00
- EL. 0.00
- EL. -1.00
- EL. -2.00
- EL. -3.00
- EL. -4.00
- EL. -5.00



DOCK FRAMING PLAN
SCALE: 1" = 1'

SHEET NO. 101	HIGHLAND VIEW BOAT RAMP
	DOCK FRAMING PLAN
	HIGHLAND VIEW BOAT RAMP IMPROVEMENTS

PROFESSIONAL REGISTRATION
ROBERT DAVIS, P.E.
P.E. #73115

DESIGNER: RDAVIS/BDD
DRAWN BY: BDD
REVIEWED BY: RDAVIS

ISSUE DATE: XX-XX-XX
COMP. FILE NO.: N2004
STATE PROJECT NO.: N2004

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
(A)			(C)		
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Consultant:
Dowberry | PREBLE-RISH
324 MARINA DRIVE PORT ST. JOE, FL 32456 (850) 227-7200

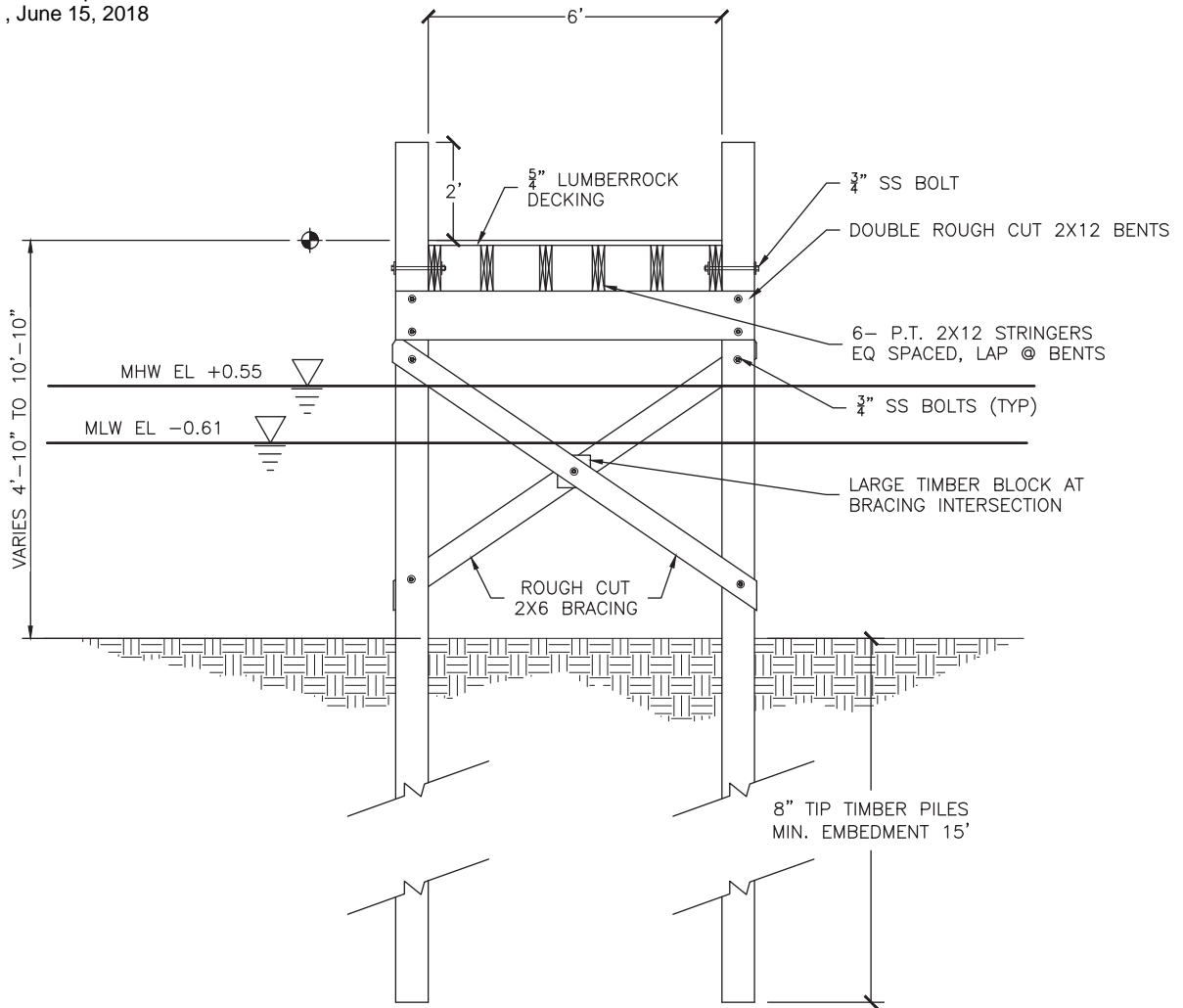
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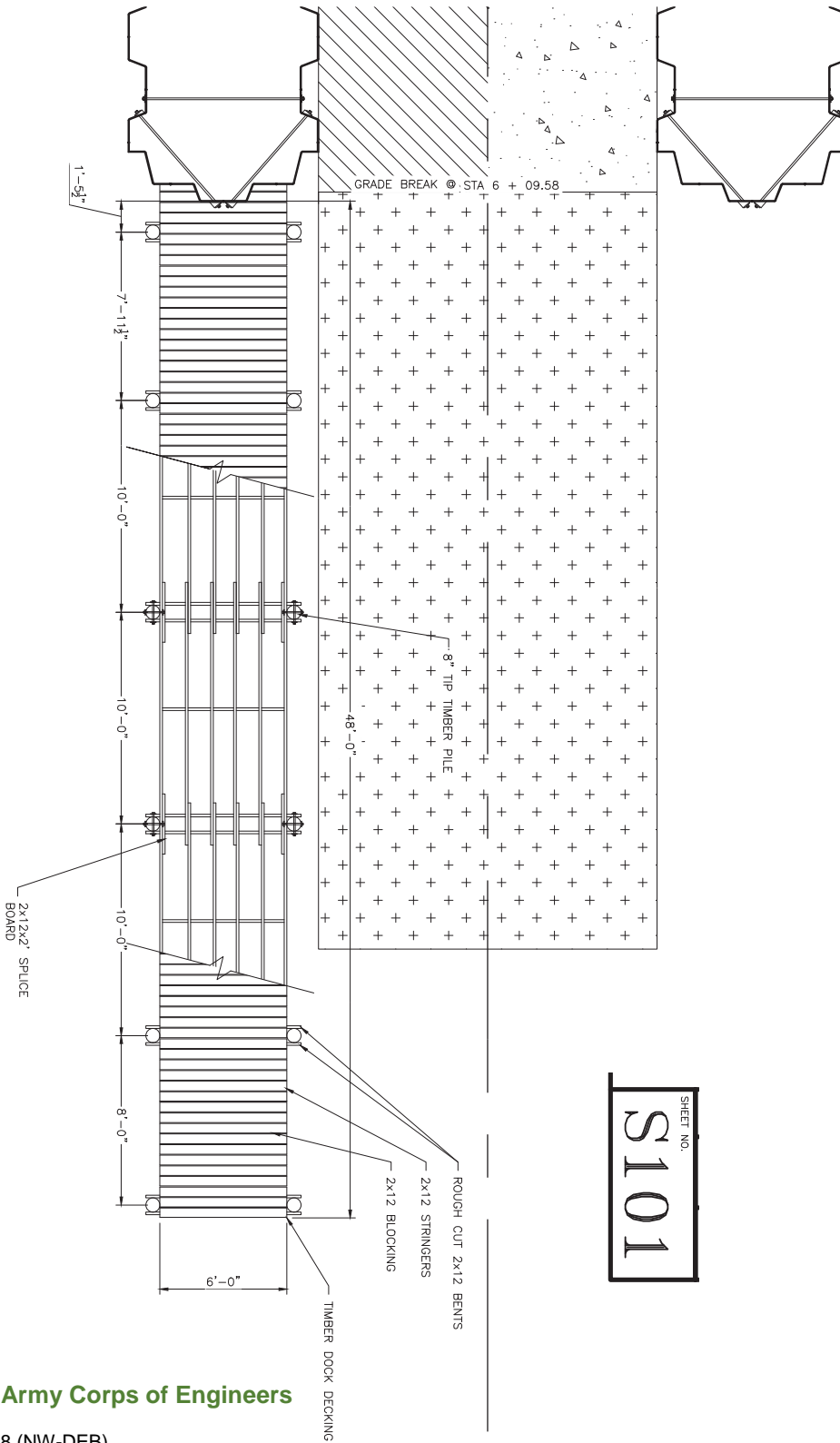
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- EL -5.00



DOCK SECTION
SCALE: 3/8" = 1'

SHEET NO.
S101

DOCK FRAMING PLAN
SCALE: 1/4" = 1'



SHEET NO.
S101



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PROFESSIONAL REGISTRATION
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DESIGNER : RDAVIS/BDD	ISSUE DATE: XX-XX-XX	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
DRAWN BY: BDD	COMP. FILE No.: N2004	(A)			(C)		
REVIEWED BY: RDAVIS	STATE PROJECT No.: N2004	(B)			(D)		

Consultant :

Dewberry PREBLE-RISH

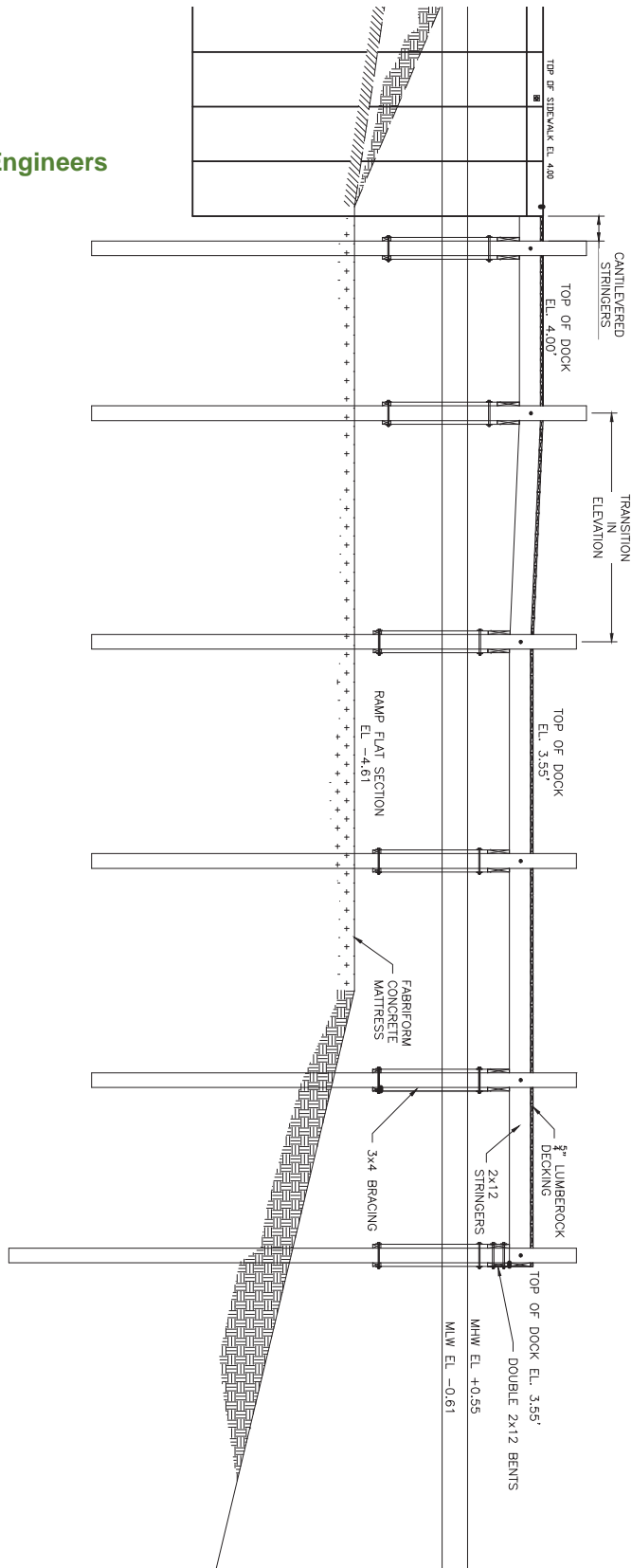
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SHEET NO.
S101

HIGHLAND VIEW BOAT RAMP

SHEET TITLE

DOCK FRAMING PLAN

PROJECT TITLE

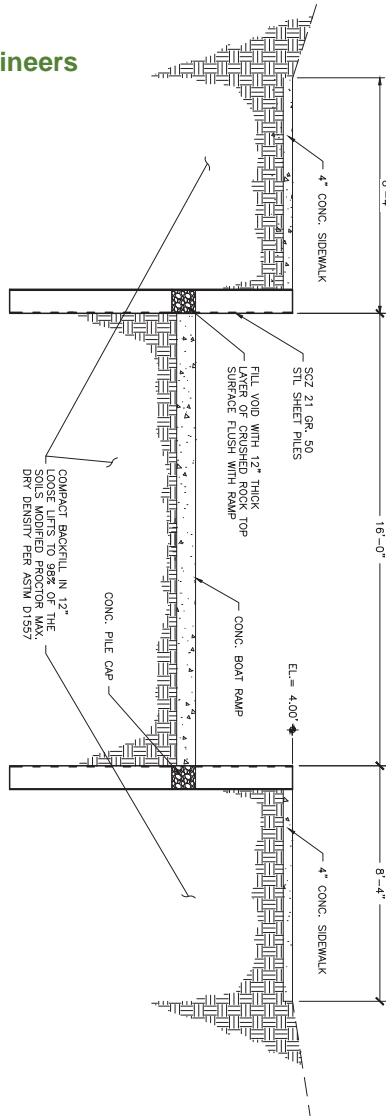
HIGHLAND VIEW
BOAT RAMP IMPROVEMENTS

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 Highland View Boat Ramp
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SECTION A-A
 SCALE: 3/8" = 1'

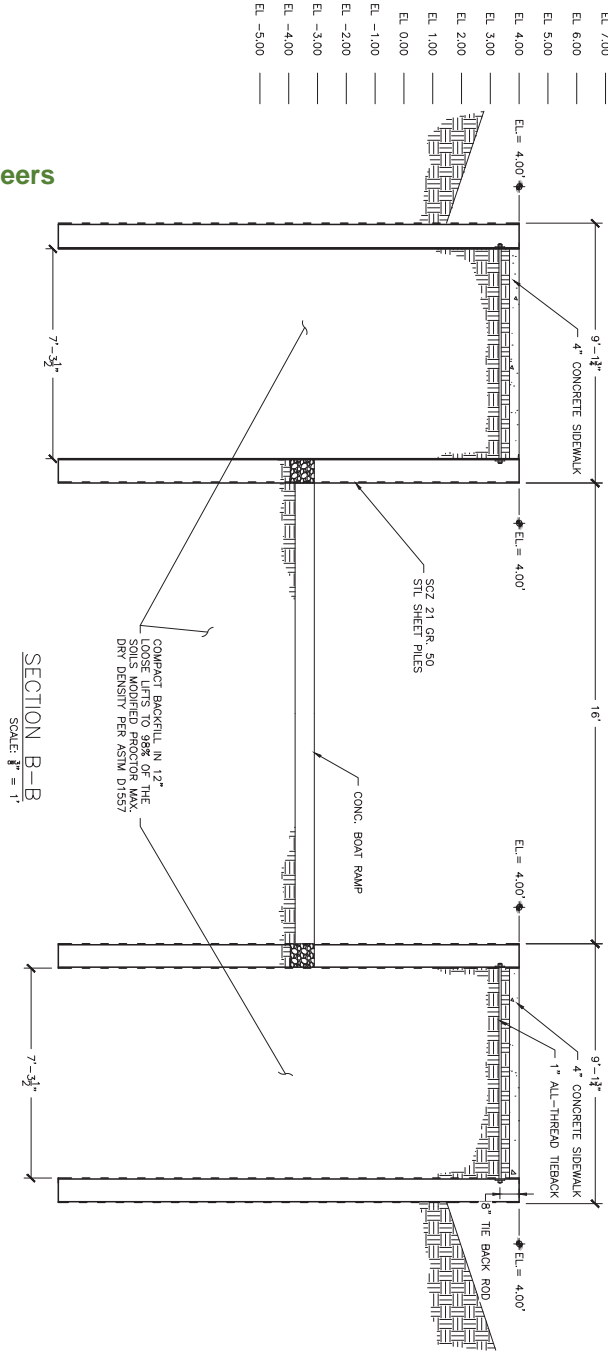
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D	COMP. FILE No.: N2004	(A)			(C)		
AVIS	STATE PROJECT No.: N2004	(B)			(D)		



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S300	SHEET NO.	HIGHLAND VIEW BOAT RAMP	PROFESSIONAL REGISTRATION ROBERT DAVIS, P.E. P.E. #73115	DESIGN
	SHEET TITLE	SECTIONS	REVISIONS	DRAWING
	PROJECT TITLE	HIGHLAND VIEW BOAT RAMP IMPROVEMENTS	CONSTRUCTION	DATE