

# SOUTH GULF COVE PARK BOAT RAMP & BOARDING PIER REPAIR

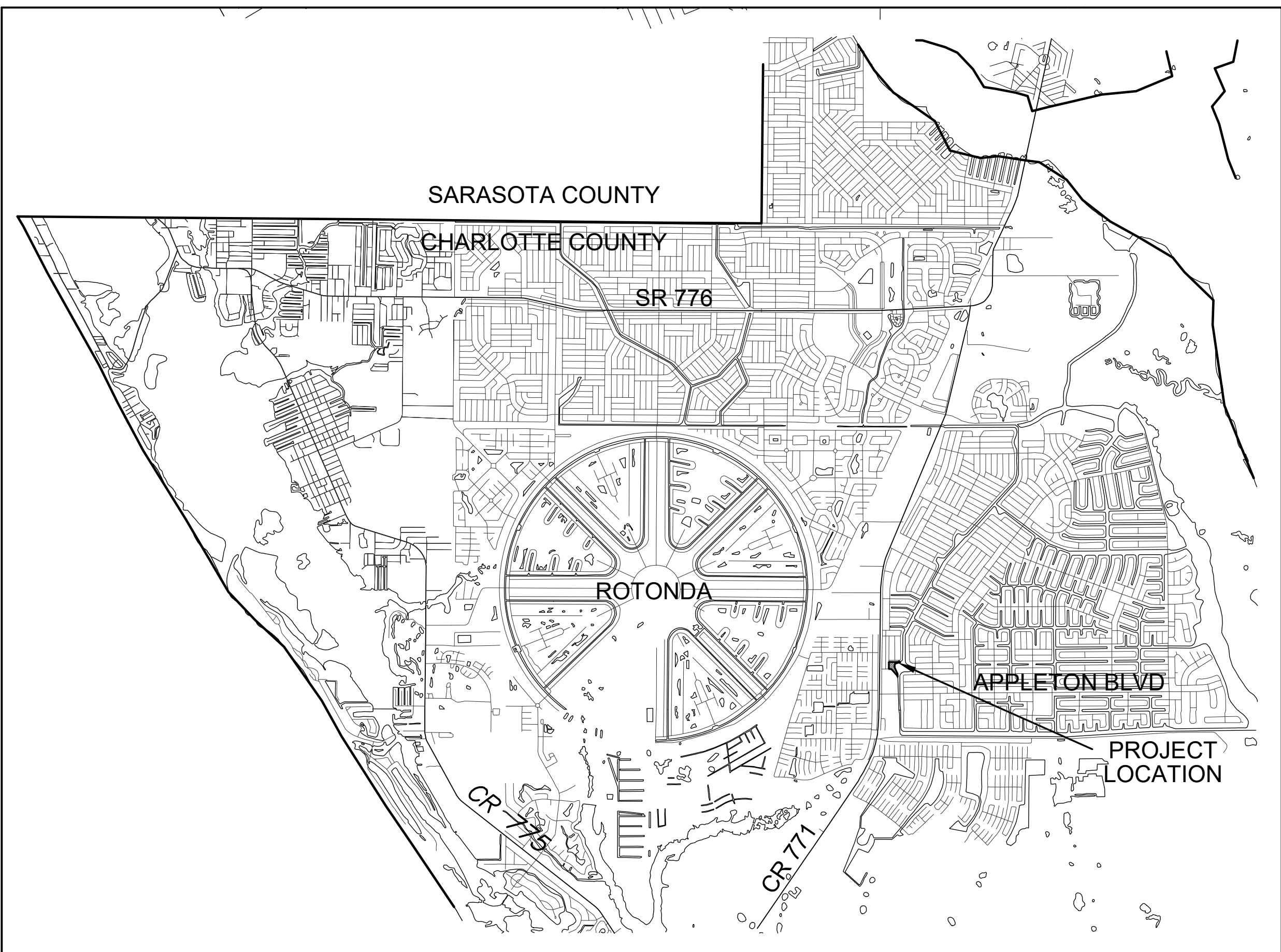
CHARLOTTE COUNTY, FLORIDA



BOAT RAMP & BOARDING PEIR



ARMORFLEX INSTALLATION



SEC 29 TWSHP 41 RNG 21

LOCATION MAP

PID: 412129176002

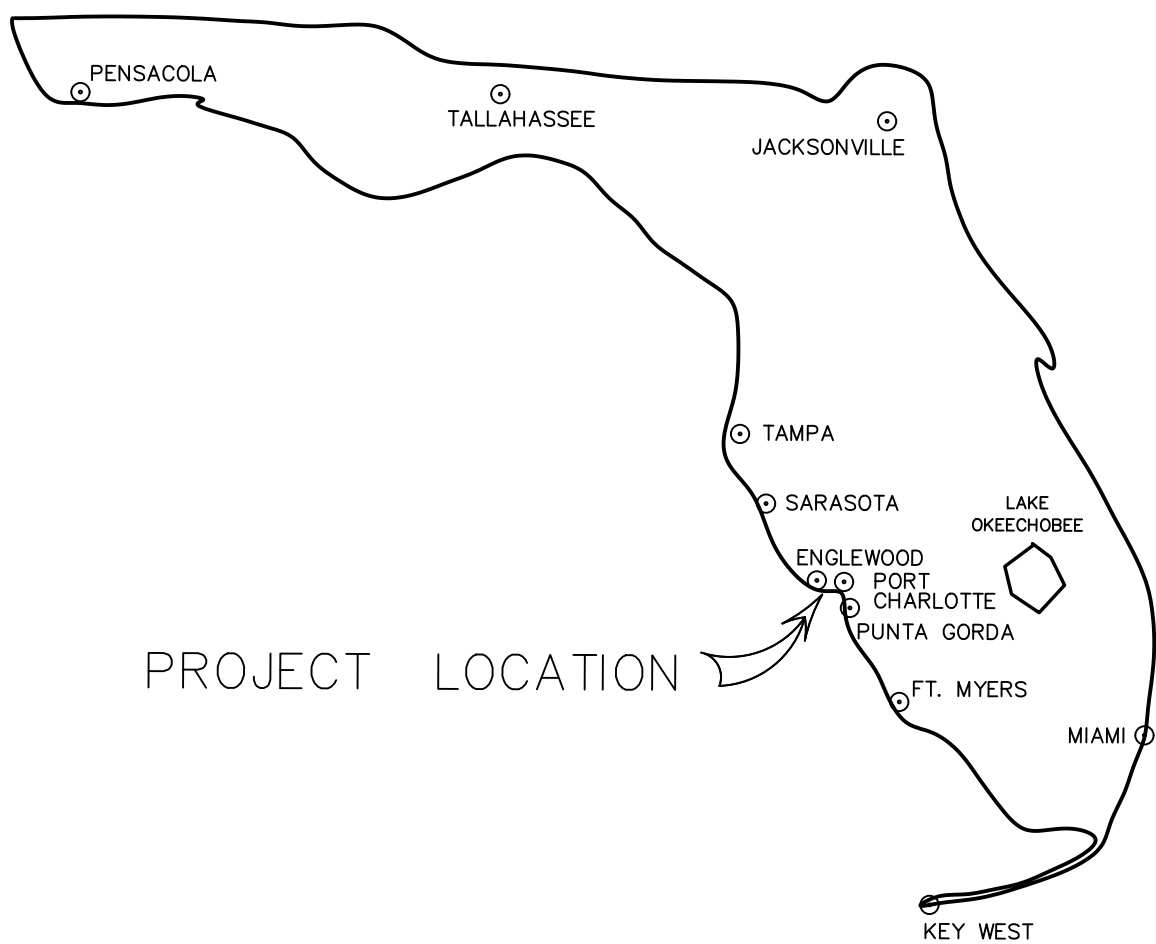
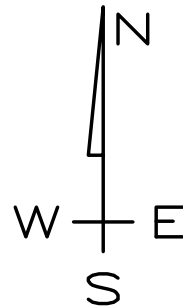
OWNER: CHARLOTTE COUNTY  
18500 MURDOCK CIR STE B208  
PORT CHARLOTTE, FL. 33948  
(941) 743-1498

ENGINEER: GIFFELS-WEBSTER ENGINEERS, INC.  
900 PINE STREET, SUITE 225  
ENGLEWOOD, FLORIDA 34223  
(941) 475-7981

These Plans Prepared By:

**GWE** **GIFFELS-WEBSTER**  
**ENGINEERS, INC.**

900 Pine Street, Suite 225  
Englewood, Florida 34223  
Phone (941) 475-7981  
Fax (941) 474-4285



PROJECT LOCATION

## INDEX OF DRAWINGS

- 1 COVER SHEET
- 2 EXISTING CONDITIONS & DEMOLITION PLAN
- 3 SITE PLAN
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- 5 BEST MANAGEMENT PRACTICES PLAN
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- 7 BOARDING PIER PLAN & SECTIONS

**BID SET**

ENGINEERING CERTIFICATION

EXISTING SITE DATA:  
CHARLOTTE COUNTY PARCEL ID NUMBER: 412129176002  
ADDRESS: 10150 AMICOLA ST  
PROPERTY OWNER OF RECORD: CHARLOTTE COUNTY

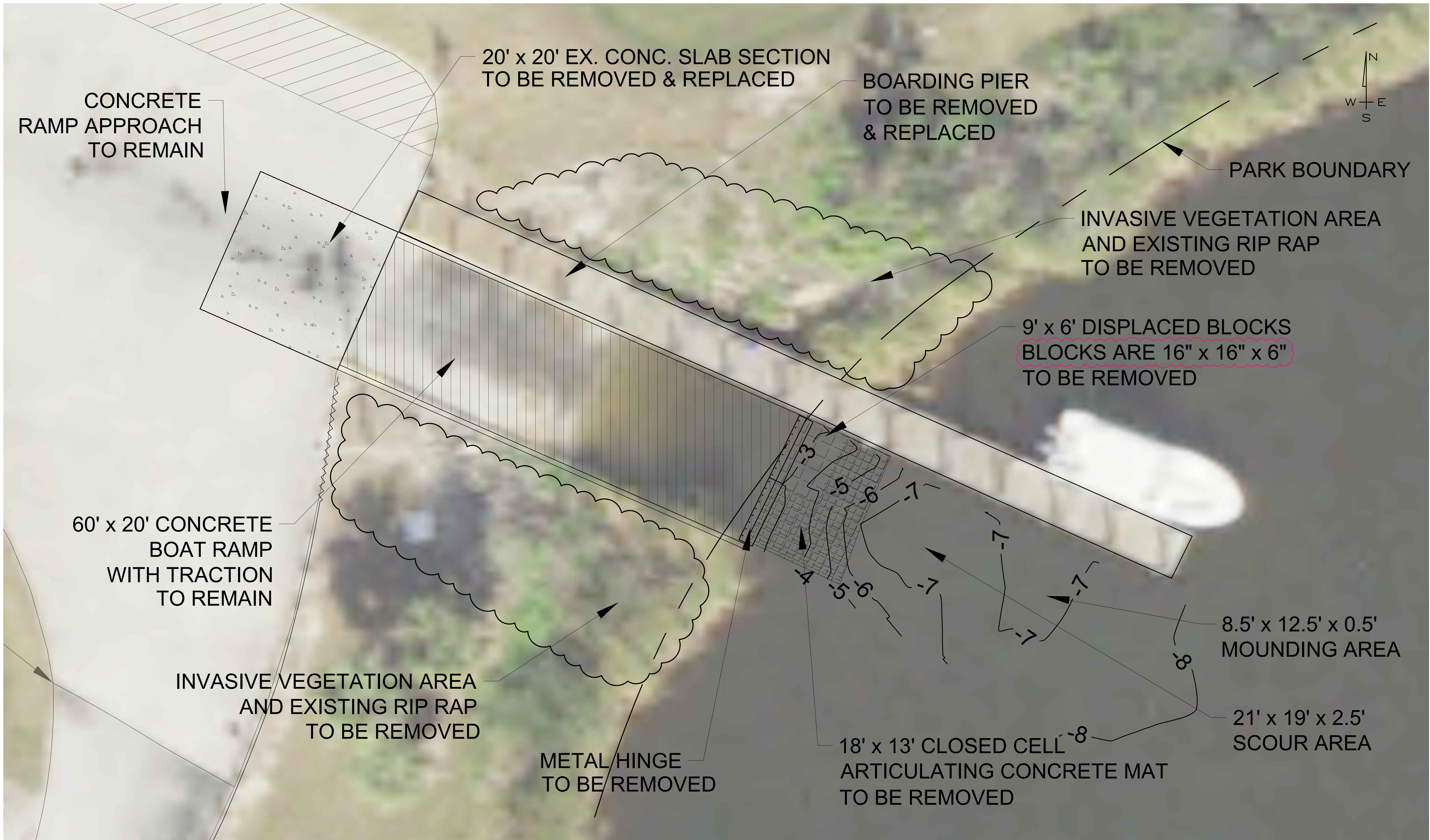
ATTENTION IS DIRECTED TO THE FACT THAT  
THESE PLANS MAY HAVE BEEN REDUCED IN  
SIZE BY REPRODUCTION. THIS MUST BE  
CONSIDERED WHEN OBTAINING SCALED DATA.

DATE

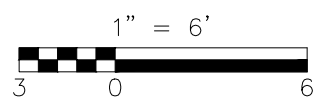
DENNIS J. CROYLE, P.E.  
FLORIDA P.E. NO. 82287

SHEET NO. 1 OF 7  
AUGUST, 2025  
GWE PROJECT NO. 6694





48 HOURS BEFORE DIGGING  
"CALL SUNSHINE"  
1-800-432-4770



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ELEVATIONS: BASED ON NAVD 1988

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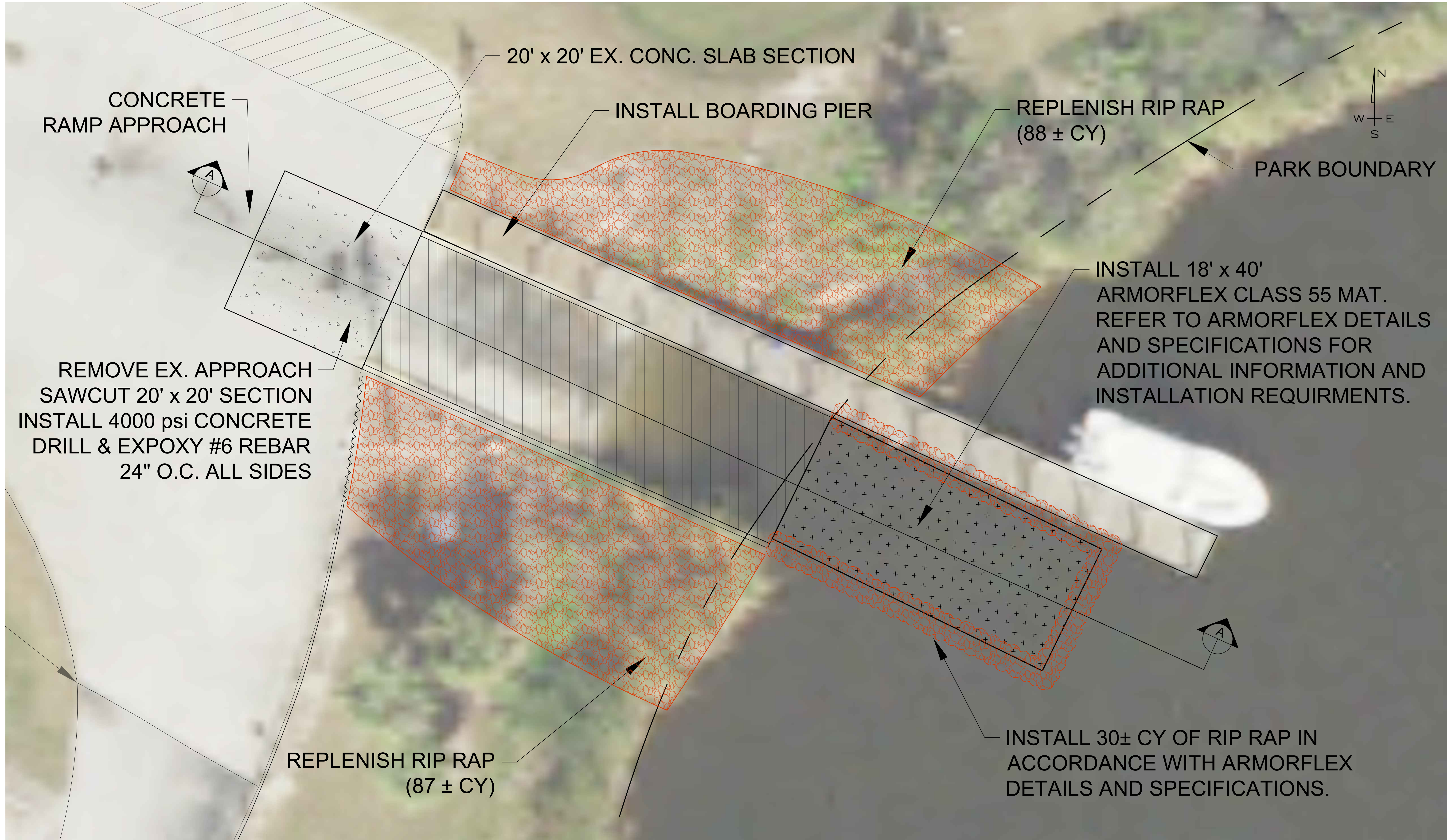
**SOUTH GULF  
COVE PARK**  
LOCATED IN  
CHARLOTTE COUNTY, FLORIDA

**BOAT RAMP & BOARDING PIER  
EX. CONDITIONS & DEMOLITION**

|         |         |
|---------|---------|
| SCALE:  | 1" = 6' |
| SHEET   | 2 OF 7  |
| GWE NO. | 6694.00 |

ENGINEER OF RECORD  
DENNIS J. GROYLE, P.E.  
STATE OF FLORIDA NO. 82287





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**SOUTH GULF**  
**COVE PARK**  
LOCATED IN  
CHARLOTTE COUNTY, FLORIDA

**BOAT RAMP & BOARDING PIER**  
**SITE PLAN**

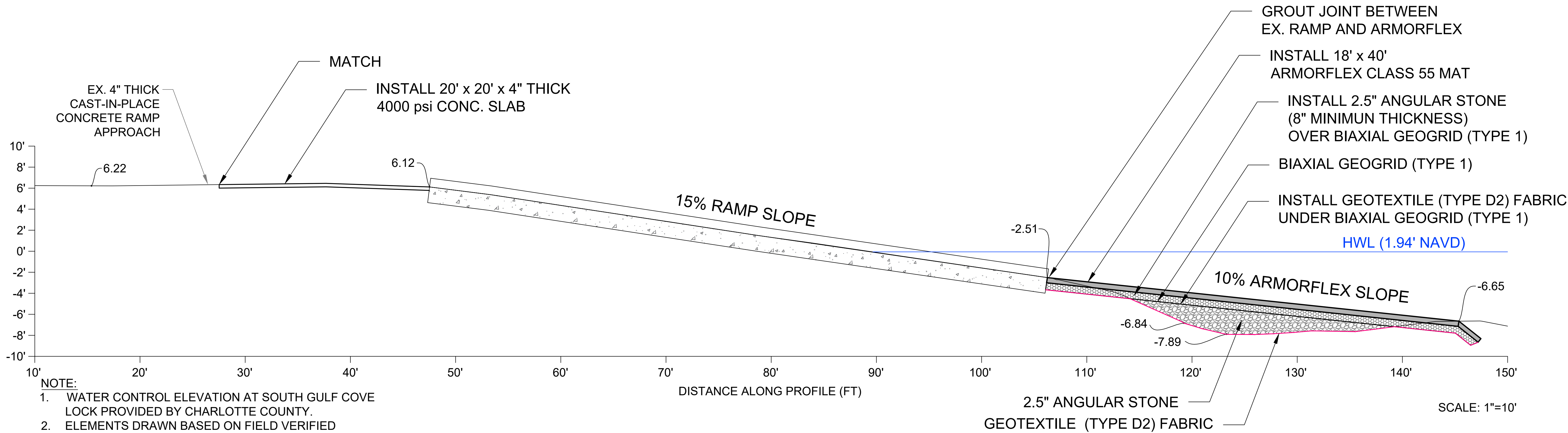
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| SCALE:  | 1" = 6' |
| SHEET   | 3 OF 7  |
| GWE NO. | 6694.00 |

ENGINEER OF RECORD  
DENNIS J. GROYLE, P.E.  
STATE OF FLORIDA NO. 82287

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ELEVATIONS: BASED ON NAVD 1988





SECTION A-A  
BOAT RAMP PROFILE

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SOUTH GULF  
COVE PARK  
LOCATED IN  
CHARLOTTE COUNTY, FLORIDA

BOAT RAMP  
PROFILE

|         |         |
|---------|---------|
| SCALE:  | N.T.S.  |
| SHEET   | 4 OF 7  |
| GWE NO. | 6694.00 |

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ELEVATIONS: BASED ON NAVD 1988



GENERAL NOTES

- Survey control: Horizontal datum NAD83 (2011), Florida West Zone; vertical datum NAVD 88.
- Existing conditions shown reflect aerial imagery from Charlotte County GIS and may not reflect current field conditions.
- Contractor shall review all plans and specs before mobilization. Notify Engineer of any discrepancies or conflicts prior to work.
- No substitutions or deviations without written approval from Engineer of Record (EOR).
- Contractor shall field-verify all dimensions, grades, and site conditions prior to construction. Report discrepancies to the EOR before proceeding. No additional compensation will be provided for failure to verify.
- Contractor is solely responsible for all means, methods, sequencing, safety, and supervision.
- Provide experienced on-site superintendent throughout duration of work.
- Contractor shall coordinate with all subcontractors and suppliers to meet critical path schedule.
- All materials must be new and meet project specifications and applicable FDOT/ASTM standards.
- All permits, licenses, and insurances required for the work shall be furnished by the contractor.
- Environmental permits will be provided by the County; all other permit-related costs must be included in the bid.
- Work must comply with all applicable local, state, and federal codes and permitting requirements.
- Construction access, staging, and storage areas shall be coordinated with the County.
- Contractor shall account for tidal fluctuations, wave action, and other marine-related factors in planning and executing the work. No claims for delays due to foreseeable site or weather conditions will be accepted.
- Report all subsurface obstructions or unforeseen conditions to the EOR immediately.
- Contractor shall protect all existing structures, vegetation, and utilities; repair damage at their expense.
- Pre- and post-construction video documentation of work areas and access routes is required.
- Daily logs, inspection records, and photographic documentation shall be maintained and available upon request.
- Erosion control and turbidity barriers are to be installed and maintained throughout construction.
- A mandatory preconstruction meeting with the County and EOR is required before any work begins.
- The existing concrete boat ramp shall remain in place and be protected throughout construction. Contractor is responsible for any damage and shall make repairs at their own expense.
- The scour mat system is a pre-engineered, proprietary product. Contractor is responsible to purchase, furnish, and install per manufacturer's instructions and provided design documents. The EOR is not responsible for the performance or structural adequacy of components not designed under this contract.
- Contractor is responsible to furnish and install all material.

DEMOLITION & EARTHWORK

- Locate and protect all active utilities prior to any excavation.
- Remove and legally dispose of all demolition debris off-site.
- Excavate and backfill unsuitable materials with approved clean fill, compacted to 95% per AASHTO T99.
- Clear and grub within work limits to remove vegetation, roots, and organic soils.
- Restore all disturbed areas with clean topsoil and sod. Final grading shall match existing contours and provide positive drainage. Complete restoration promptly after construction to minimize erosion.

CONCRETE SLAB & BOAT RAMP CONSTRUCTION

- Demolish existing slab to limits shown. Protect adjacent structures and utilities.
- New slab to be cast-in-place, 4,000 psi concrete, with reinforcing per plan and 3" min. cover.
- No cold joints on sloped ramps; use keyed and doweled construction joints only.
- Use low-slump, marine-grade mix. Vibrate and finish with light broom texture perpendicular to slope.
- Submit mix design and joint layout to EOR prior to placement.
- Schedule concrete placement during favorable tidal conditions.
- Formwork must be tight and approved by EOR prior to pour.
- Maintain curing per ACI standards and monitor temperature and moisture as needed.
- Protect the existing concrete boat ramp from damage throughout all construction activities. Any damage caused shall be repaired at the Contractor's expense.

SCOUR MAT INSTALLATION

- The scour protection system is a proprietary design by others. Contractor is responsible only for installation in accordance with the manufacturer's instructions, provided design drawings, and these plans. No modifications shall be made without written approval.
- Excavate to subgrade. Grade uniformly to required elevation.
- Place approved non-woven geotextile fabric directly on prepared subgrade, extending beyond the mat footprint per plans.
- Install a 8" minimum layer of clean, washed 2.5" stone over the geotextile as a filter and bedding layer.
- Place biaxial or uniaxial geogrid (as specified) directly over the stone. Geogrid shall be pulled taut and anchored per manufacturer recommendations.
- Set ArmorFlex mats in tight alignment over the geogrid, following manufacturer's installation guidelines.
- Secure mats using 316 stainless steel cable system or mechanical anchors as detailed.
- Fold geotextile, geogrid, and scour mat edges at terminations as detailed. Terminations shall be secured with RIP RAP stone per plan to prevent undermining and edge erosion.
- Grout the interface between the existing concrete ramp and the scour mat to ensure a sealed, stable transition and prevent water intrusion or undermining.
- Fill mat voids with clean sand or grout per plan details to promote interlock and embedment.
- Hand-dress exposed edges and transitions.
- Submit as-built documentation with photographs, including installation of geotextile, stone layer, geogrid, and final mat placement, for Engineer review.

RIP RAP INSTALLATION

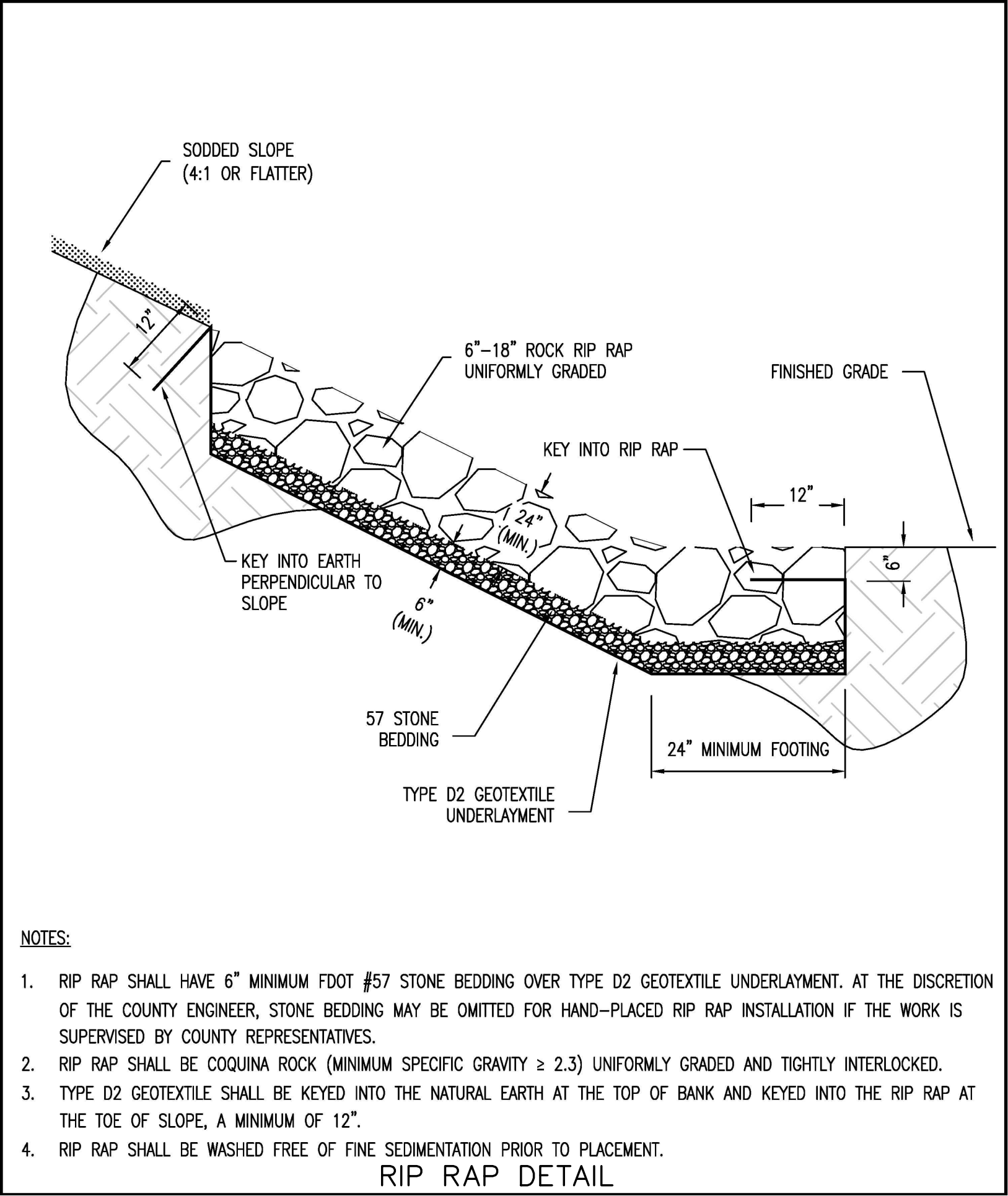
- Provide and install RIP RAP rubble ditch lining in accordance with FDOT Standard Specifications Section 530 and Index 199-001, unless otherwise shown.
- Material shall be clean, angular, durable stone, meeting FDOT gradation for Rubble Ditch Lining (6"-12" nominal diameter), free of fines, organics, or disintegrated material.
- Install over non-woven geotextile filter fabric per FDOT Section 985.
- Replenish and reinforce existing RIP RAP zones as shown on the plans. Match existing thickness and alignment.
- Fill and repair any visible drop-offs or washouts with larger core stone or RIP RAP as needed. Voids greater than 6 inches in depth or width shall be filled and compacted prior to final dressing.
- Hand-place and key visible stones for stability, ensuring a uniform, interlocked face.
- Blend transitions into adjacent undisturbed areas to avoid abrupt edges or future erosion.
- Contractor shall take care not to displace or undermine existing stable RIP RAP outside the designated work zone.

BOARDING PIER INSTALLATION

- Demolish and remove the existing pier structure within the limits shown. All materials shall be legally disposed of off-site. Take care to avoid disturbance to adjacent undisturbed piles or shoreline structures.
- New pier piles shall be installed in the approximate locations of the existing piles, unless otherwise directed. Field-locate and stake pile layout; submit to the EOR for review and approval prior to installation.
- Piles shall be driven to the required plan tip elevation or to practical refusal, as determined by the Geotechnical Report and verified by the EOR.
- Match the elevation of the new pier deck and structure to the existing finished elevations shown on plans, unless otherwise directed.
- Use 316 stainless steel hardware for all fasteners, brackets, and connections unless noted otherwise.
- Decking shall be composite or as specified, installed per manufacturer's guidelines, providing slip resistance and UV durability.
- Provide a level, uniform walking surface free of trip hazards. All transitions between deck boards, ramps, and pier components shall be smooth and ADA-compliant if required.
- A final inspection by the EOR and County is required prior to acceptance and payment.

TRAFFIC & PEDESTRIAN MAINTENANCE

- Submit MOT plan for approval before mobilization.
- Maintain safe pedestrian access unless full closure is coordinated and approved.
- Provide signage, barriers, lighting, and flaggers as required.
- Maintain access to private properties and public areas during all phases of work.



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| 10/21/25 | REVISE NOTE 22 & ADD NOTE 23 |    |      |          |    |
|          |                              |    |      |          |    |
|          |                              |    |      |          |    |
|          |                              |    |      |          |    |

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| SEC.    | 29   | T41S, R21E |      |

**SOUTH GULF**  
**COVE PARK**  
LOCATED IN  
CHARLOTTE COUNTY, FLORIDA

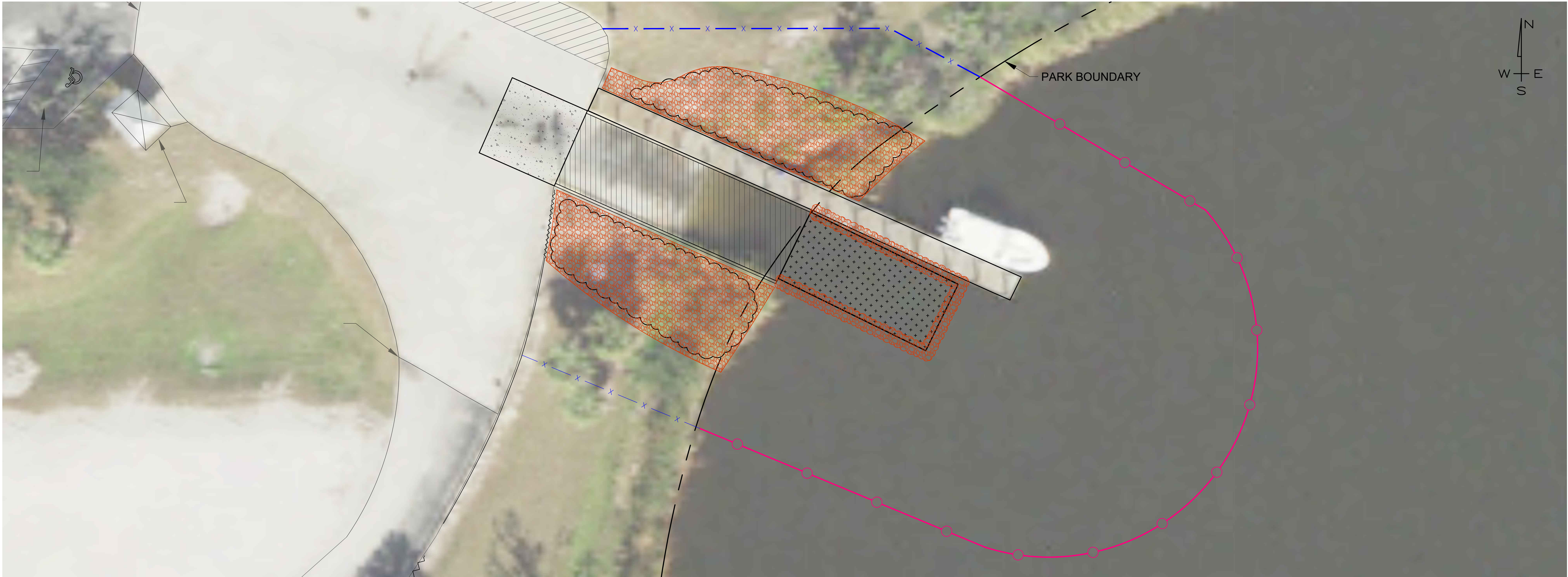
**BOAT RAMP & BOARDING PIER**  
**GENERAL NOTES**

|         |         |
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| SCALE:  | N.T.S.  |
| SHEET   | 5 OF 7  |
| GWE NO. | 6694.00 |

ENGINEER OF RECORD  
DENNIS J. GROYLE, P.E.  
STATE OF FLORIDA NO. 82287

ELEVATIONS: BASED ON NAVD 1988

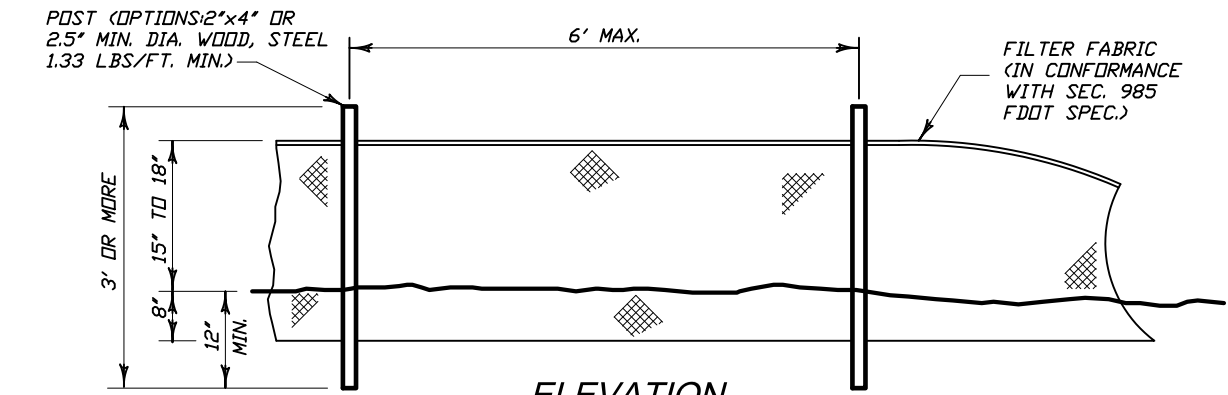




LEGEND

- x — x — x — SILT FENCE  
— o — o — o — TURBIDITY BARRIER

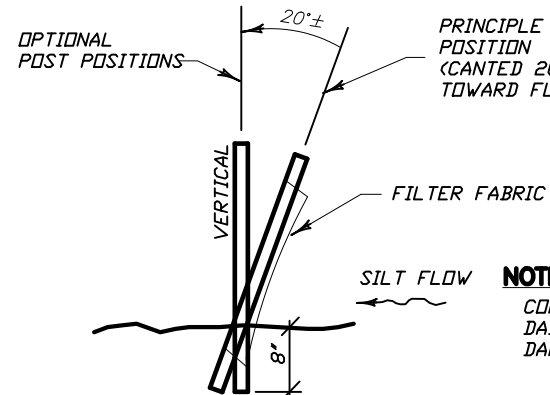
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



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

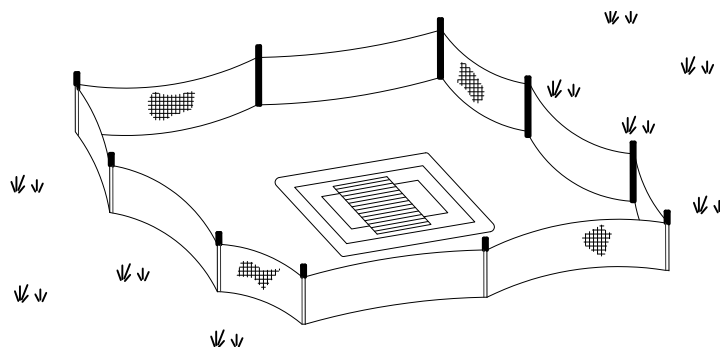
TYPE III SILT FENCE

NOT SCALE  
F.B.D.T. INDEX No. 102

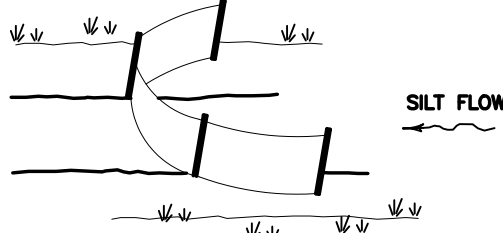


SECTION

NOTE: CONTRACTOR TO INSPECT SILT FENCE DAILY AND REPAIR IMMEDIATELY IF DAMAGED.

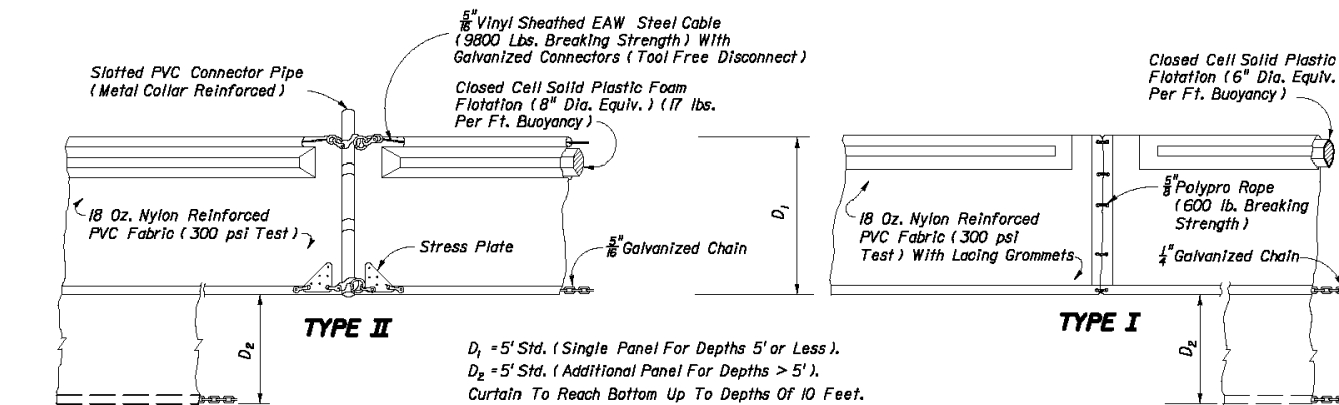


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS



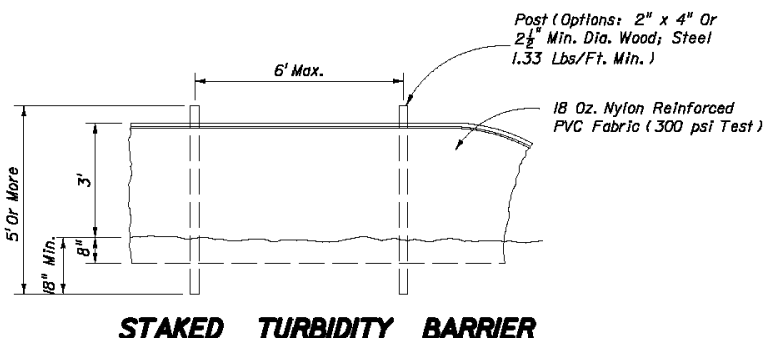
TYPE III SILT FENCE

SILT FENCE APPLICATIONS



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.

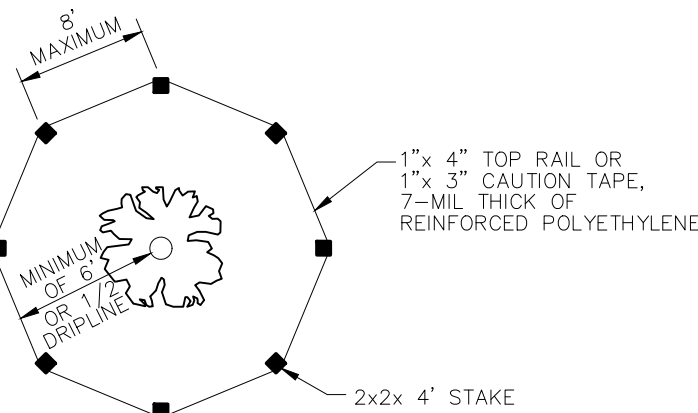
FLOATING TURBIDITY BARRIERS



STAKED TURBIDITY BARRIER

TREE PROTECTION:

- A TREE REMOVAL AND PROTECTION PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, CLEARING, OR TREE REMOVAL.
- NO CLEARING WITH HEAVY EQUIPMENT, FILLING OR PLACING OF IMPROVEMENTS OR UTILITY LINES SHALL OCCUR WITHIN THE PROTECTED ROOT ZONE OF ANY CANOPY TREE TO BE SAVED. THE PROTECTED ROOT ZONE IS DEFINED AS A MINIMUM OF SIX FEET OR ONE-HALF THE DISTANCE FROM THE TRUNK TO THE DRIPLINE OF THE TREE, WHICHEVER IS GREATER. ONLY HAND CLEARING IS PERMITTED WITHIN THE PROTECTED ROOT ZONE OF CANOPY TREES TO BE SAVED. ALTHOUGH HALF DRIPLINE PROTECTION IS REQUIRED, FULL DRIPLINE PROTECTION IS PREFERRED AND STRONGLY RECOMMENDED TO MINIMIZE ROOT DAMAGE AND THEREFORE INCREASE A TREE'S CHANCES FOR LONG-TERM SURVIVAL.



TREE PROTECTION DETAIL

NOT TO SCALE

BEST MANAGEMENT PRACTICES (BMP)

- CONTRACTOR SHALL PROVIDE ENGINEER OF RECORD WITH ONE SET OF DRAINAGE AS-BUILT DRAWINGS WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION. THE DRAINAGE-RELATED AS-BUILTS SHALL SHOW LOCATION, TYPE AND SIZE OF ALL STORM WATER OUTFALL STRUCTURES DISCHARGING TO CHARLOTTE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) OR OTHER STATE SURFACE WATER DRAINAGES AND/OR WATERBODIES.
- THE CONTRACTOR OR ENGINEER SHALL REPORT ALL OFFSITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NTUs (NEPHELOMETRIC TURBIDITY UNITS) ABOVE BACKGROUND LEVEL TO THE COUNTY ENGINEER (941) 575-3600 WITHIN 24 HOURS AFTER OCCURRENCE. NOTIFICATION SHALL INCLUDE THE CAUSE OF THE PROBLEM, CORRECTIVE ACTIONS, TAKEN, AND THE INSTALLATION OF ADDITIONAL EROSION/SEDIMENT CONTROLS NOT SHOWN ON APPROVED CONSTRUCTION PLAN DRAWINGS.
- FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORM WATER DRAINAGE OR WATER BODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS AND GENERATED FROM CONSTRUCTION OPERATION SHALL BE CONTAINED, CLEANED UP AND REPORTED IMMEDIATELY TO THE COUNTY ENGINEER (941) 575-3600. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
- ALL SURFACE WATER DISCHARGES FROM THE PROPERTY SHALL COMPLY WITH STATE WATER QUALITY STANDARDS CONTAINED IN DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES, CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE (F.A.C.).
- THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSIONS OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296-320(4)(C), FLORIDA ADMINISTRATIVE CODE, FROM THE CONSTRUCTION SITE BY TAKING ADEQUATE MEASURES TO STABILIZE AFFECTED AREAS.
- EROSION/SEDIMENT CONTROL SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTY OR ROADWAYS. CONTROL SHALL BE DESIGNED, INSTALLED, AND MAINTAINED AS REQUIRED BY THE ENGINEER AND/OR CONTRACTOR TO ENSURE SURFACE WATER QUALITY CONDITIONS ARE IN COMPLIANCE WITH THE WATER QUALITY STANDARDS ESTABLISHED IN CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE, AND WITH APPLICABLE CHARLOTTE COUNTY CODES.

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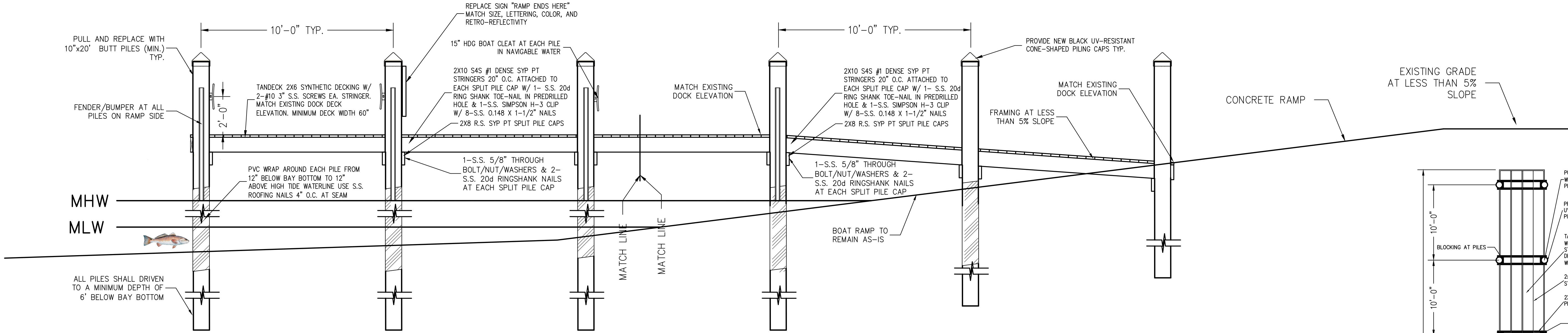
**SOUTH GULF COVE PARK**  
LOCATED IN  
CHARLOTTE COUNTY, FLORIDA

**BOAT RAMP & BOARDING PIER  
BEST MANAGEMENT PRACTICES**

|         |          |
|---------|----------|
| SCALE:  | 1" = 10' |
| SHEET   | 6 OF 7   |
| GWE NO. | 6694.00  |

ENGINEER OF RECORD  
DENNIS J. GROYLE, P.E.  
STATE OF FLORIDA NO. 82287





SECTION A-A  
SCALE : 1/4"=1'-0"

#### DESIGN CRITERIA:

2023 Florida Building Code, 8th Edition N.D.S. – 2017 Edition  
Marine Construction Manual, Southern Pine Council

#### MATERIALS:

##### WOOD:

- Lumber grades as specified in these drawings shall meet or exceed the grading criteria of the Southern Pine Inspection Bureau as published in "Standard Grading Rules for Southern Pine Lumber, 2017 Edition".
- The following preservative treatments shall be applied to all wooden structural members per the recommendations of the Southern Pine Council:

|                 |                       |
|-----------------|-----------------------|
| -Pilings        | 2.5 CCA, AWPAC3&C18   |
| -2x8 Pile caps  | 2.5 CCA, AWPAC2 & C18 |
| -2x10 stringers | 0.6 CCA AWPAC2& C18   |

- All cuts, holes, and injuries to the surface of treated wood should be protected by field treatment with copper naphenate meeting AWPAC standard P-8.

##### METAL:

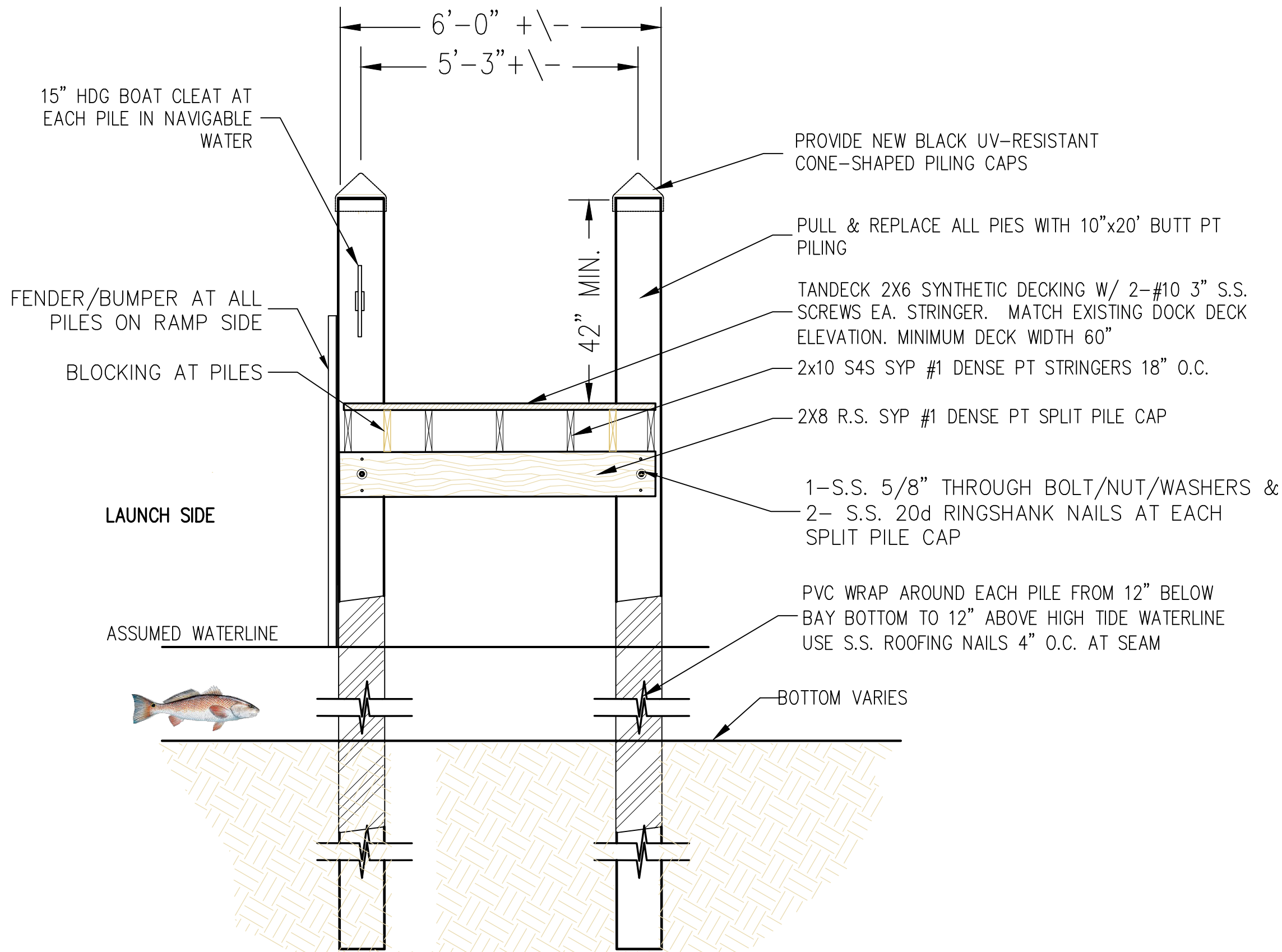
- All steel plates, bolts, washers, nuts, fasteners, hangers, straps and clips shall be 304 stainless steel – (Simpson Products or equal). Fasteners and connectors in contact with CCA, ACQ, or CA treated lumber shall be 304 stainless steel.
- Aluminum, coated or otherwise, shall not be in contact with CCA, ACQ, or CA treated wood.
- Lag bolts, nails, screws, hangers, straps, and clips shall be 304 stainless steel to meet conditions shown.
- Pre-manufactured straps, hangers, and clips shall be installed according to manufacturer's recommendations as required to supply desired performance.

#### CONSTRUCTION:

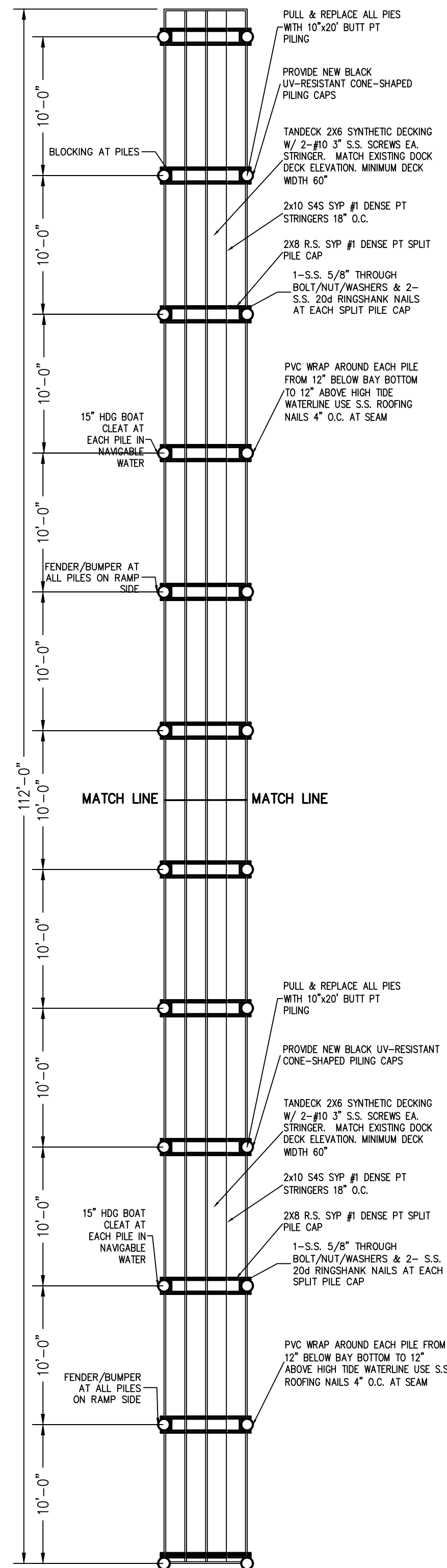
- Due to the nature of this construction the Engineer of Record shall be given the opportunity to re-evaluate these plans and specifications as additional information becomes available or unforeseen circumstances arise.
- It shall be the contractor's responsibility to establish all permitting & environmental protection requirements prior to construction.

#### GENERAL:

- All construction shall meet requirements of all Local and State Building Codes.
- Engineer of Record shall be notified of any deviation to this plan during construction.
- Contractor to verify dimensions of this drawing with existing site conditions.



SECTION B-B  
SCALE : 1/4"=1'-0"



48 HOURS BEFORE DIGGING  
"CALL SUNSHINE"  
1-800-432-4770

ATTENTION IS DIRECTED TO THE FACT THAT  
THESE PLANS MAY HAVE BEEN REDUCED IN  
SIZE BY REPRODUCTION. THIS MUST BE  
CONSIDERED WHEN OBTAINING SCALED DATA.

ELEVATIONS: BASED ON NAVD 1988

**GWE** GIFFELS-WEBSTER  
ENGINEERS, INC.

900 Pine Street, Suite 225  
Englewood, Florida 34223  
Phone (941)475-7981  
Fax (941)474-4285

DATE: 6/25 CKD. BY: DATE: 6/25  
DRAWN: TS DC  
DESIGN: TS DC  
SEC. 29 T41S, R21E

SOUTH GULF  
COVE PARK  
LOCATED IN  
CHARLOTTE COUNTY, FLORIDA

BOARDING PIER PLAN  
SECTIONS & DETAILS

SCALE: N.T.S.  
SHEET 7 OF 7  
GWE NO. 6694.00

ENGINEER OF RECORD  
DENNIS J. GROYLE, P.E.  
STATE OF FLORIDA NO. 82287