LEON COUNTY
DEPARTMENT OF DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT

ENVIRONMENTAL MANAGEMENT PERMIT

TO SPEAK TO AN ENVIRONMENTAL INSPECTOR, CALL (850) 606-1300.

PERMIT EXPIRES THIRTY-SIX (36) MONTHS FROM ISSUANCE PER ARTICLE 5, SECTION 7-41(4)(A)(1), ENVIRONMENTAL MANAGEMENT ACT

PERMIT EXPIRES: 02/05/2022
PERMIT #: LEM1800044
PROJECT NAME: CENTERVILLE TRACE POND OUTFALL
LOCATION: STRUCTURE REPLACEMENT
PERMITTEE: 3642 Oxhill Ct

DATE ISSUED:
PARCEL TAX ID: 02/05/2019
111004 C0010

FEE INFORMATION
Env Tree Removal Permit Fee 114.00
Stormwater Standard Form 2,588.08
TOTAL FEES: 2,702.08
TOTAL PAYMENTS 2,702.08
BALANCE: 0.00

John P. Kraynak, Director
Environmental Services Division

ACCEPTANCE OF THIS PERMIT ACKNOWLEDGES PREMISIONS FOR LEON COUNTY PERSONNEL TO INSPECT AT REASONABLE TIMES THE PROPERTY AND WORK AScribed IN THIS PERMIT. FAILURE TO POST THE PERMIT PLACARD IN A CONSPICUOUS PLACE ON-SITE OR FAILURE TO HAVE THE APPROVED PERMIT AND PLANS AVAILABLE ON-SITE MAY RESULT IN THE IMMEDIATE ISSUANCE OF A STOP WORK ORDER.
BOARD OF COUNTY COMMISSIONERS
LEON COUNTY
DEPARTMENT OF DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT

CENTERVILLE TRACE
OUTFALL STRUCTURE REPLACEMENT

ENVIRONMENTAL MANAGEMENT PERMIT
LEM18-00044

A Pre-Construction Conference with the County Environmental Inspector is required.
(Contact Ms. Brittany Varn at 850-606-1358 or 850-544-0828 to schedule.)

This environmental management permit authorizes construction (i.e. grading, stormwater conveyance, berm stabilization, etc.) associated with the proposed outfall structure replacement of parcel ID. No.: 11-10-04-000 1, 11-10-04-000 2, 11-10-04-C-001 0, 11-10-04-C-002 0, & 11-10-04-C-024 0 in Leon County, consistent with the attachments and exhibits identified below.

Attachment A: Permit Conditions
Exhibit A: Approved Plans ( Permit Plan Set)

The permittee should be familiar with the permit conditions and all other attachments and exhibits included in this permit prior to the commencement of development activity. Failure to conform to this permit may cause appropriate enforcement action to be taken that could include a "Stop Work Order" or a "Notice of Violation".

Approved By:

Approved By: Nawfal Ezzagaghi 2/5/2019

John Kraynak, P.E., Director
Environmental Services
MRW
ATTACHMENT "A"
PERMIT CONDITIONS:
CENTERVILLE TRACE
OUTFALL STRUCTURE REPLACEMENT

GENERAL CONDITIONS:

1. The permittee shall conduct all development activity consistent with the "Environmental Management Act," Article VII, Chapter 10 of the Leon County Land Development Code. Reference Section 10-4.105.

2. Posting of placards. A placard indicating issuance of a valid permit shall be posted in a conspicuous place on site at all times during the development activity. Reference Section 10-4.203(c)(1).

3. Permit and plans on-site. A copy of the approved permit and plans (Exhibit "A" and subsequent approved contractor "Shop Drawings") shall be available on site at all times when any development activity is occurring on the site. Reference Section 10-4.203(c)(2).

4. Notice of intent to proceed and Pre-Construction Conference. A notice of intent to proceed shall be filed with the Director at least three (3) working days prior to initiation of any physical development activity on the site. The notice shall specify the site location and the permit number(s) applicable to the activity and shall specify the date and approximate time at which such physical development activity is to commence. A pre-construction conference will be scheduled and required prior to the commencement of any development activity. Reference Section 10-4.203(c)(3).

5. Environmental Management Officer. This individual shall be in responsible charge of all on-going work on the site and ensure that all work is proceeding according to the approved plans and permit. The designated environmental management officer must ensure that during such time as the officer is not personally present on the site a designated alternate remains in responsible charge of the project. For this project, the Environmental Management Officer shall be determined at the pre-construction conference. Reference Section 10-4.203(c)(6).


7. Extensions. Permits may be extended, by request of the applicant and approval of the Director, for successive periods of time not to exceed 36 months each, provided the request for extension is made prior to the expiration of the prior approval and provided continuous good faith efforts have been made to complete the development. Reference Section 10-4.214(1)(b).

8. Early expiration for cause. If no substantial and readily observable site development activity has taken place within 18 months of the issuance of the permit or, once development is started, if no such development activity occurs for any 12 consecutive months, the Director may, after notifying the permittee and providing an opportunity for hearing, determine the permit to be expired and shall so notify the permittee. Such a permit may not thereafter be extended. Reference Section 10-4.214(1)(c).
9. **Effect of permit expiration.** Once a permit has expired, no further development activity may proceed on the permitted development site unless and until a new permit is received for the development site and activity. Reference Section 10-4.214(3).

10. **Continued responsibility under expired permit.** An expired permit shall not relieve the permittee from the responsibility of continued compliance with this permit and the Code. Where development has commenced and no final inspection completed before expiration of a permit, the permittee may be required to submit, and obtain the Director's approval of a new environmental management permit application or an application for amendment of the expired permit. As an option, the permittee may be required to complete and maintain the landscaping, trees, or stormwater management systems and facilities which were required by the expired permits, as necessary to prevent significant adverse environmental impacts as a result of development activity which has occurred on the site. Reference Section 10-4.214(3).

11. **Notice of transfer of permit.** No later than ten (10) days after the sale or legal transfer of property upon which a stormwater management facility has been, or is approved to be, constructed pursuant to a permit issued by the County, a notice of transfer of permit shall be submitted to the Director. The notice shall be made using a form provided by the Director. Reference Section 10-4.214(5)(a).

12. **Transfer liability.** Until a proper notice of permit transfer is provided to the Director, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions required as a result of any violations occurring prior to transfer. For facilities that have received final inspection approval prior to the time of legal transfer, the original permittee shall remain liable for performance of warranty obligations as set forth in Section 4.208(d), absent an express assumption of liability as to such warranty obligations by the subsequent holder of the property. Reference Section 10-4.214(5)(b).

13. **Amendments.** Any minor change or deviation from the approved plans shall require an amendment to this permit. Substantial changes, including significant increases in impervious area, changes in intended land use, modification of stormwater management system, new phases of development, or other additions, shall not be treated as amendments, but shall require a new permit application. Reference Section 10-4.215.

14. **During development.** All environmental management controls and facilities shall be maintained in a manner which will ensure proper functioning and protection from unnecessary environmental degradation, throughout the development process. Reference Section 10-4.210(a).

15. **Post-development.** Upon completion of development activities and construction, the permittee shall ensure that each site is properly stabilized, and that swales and other stormwater management features shown in the permit are in place in a manner consistent with the permit, approved plans and specifications. Reference Section 10-4.210(b).

16. **Post-construction inspection.** Prior to requesting a final inspection by the Director, the permittee shall have a qualified professional to personally inspect the site and facilities and certify as provided for in Section 10-4.208(b).
SPECIFIC CONDITIONS:

1. **Permit Scope.** As shown in Exhibit “A” (the permit plan set), this permit authorizes the construction of infrastructure (i.e. grading, stormwater conveyance, berm stabilization, etc.) associated with the proposed outfall structure replacement of parcel ID. No.: 11-10-04-0001, 11-10-04-0002, 11-10-04-C-0010, 11-10-04-C-0020, & 11-10-04-C-0240 in Leon County consistent with the attachments and exhibits accompanying this permit.

2. **Licensed contractors.** All excavation, grading work, and other site work shall be performed under the supervision of a certified or registered general contractor, building contractor, residential contractor, commercial or residential pool/spa contractor, or underground utility contractor, or by an excavation, grading and site contractor duly licensed by the County Contractors Licensing Board. Reference Section 10-4.203(c)(5).

3. **Notification of Easements.** A copy of any required easements, with proof of recording, shall be provided to the county administrator or designee prior to final inspection. Where transfer of title for any affected parcel is proposed, the owner shall provide clear information to each prospective buyer prior to execution of any contracts, about the existence, impacts, and responsibilities associated with any easements on the property. A copy of the applicable easements shall be provided by the owner to each prospective purchaser prior to closing, and the copy shall be initialed by the parties and attached to such closing documents upon execution. Reference Section 10-4.203(c)(8).

4. **Stormwater management facility operating permit.** No stormwater management facility shall be utilized until a stormwater management operating permit is obtained. An operating permit is not required for facilities which have as their primary function the conveyance of stormwater, facilities under construction as part of an approved development plan, and temporary facilities which are part of an erosion and sediment control plan. Reference Section 10-4.209(a).

5. **Required disclaimers.** Any contract for the conveyance of title to land for which stormwater management is provided by a system or facility not maintained by the County or the City of Tallahassee shall contain the following statement: "Neither Leon County nor the City of Tallahassee is responsible for the maintenance, upkeep or improvement of any stormwater management facility utilized by the land described herein. Title to this property carries with it the requirement that the current and all subsequent owners or their authorized agent obtain a stormwater management facility operating permit from the County. The owner of this property shall be legally responsible, jointly with other owners using the facility and based on pro rata share, for compliance with all stormwater management facility operating permit maintenance and operation requirements, as well as all other permit conditions, unless such maintenance and operation obligations have been specifically assumed by some other entity pursuant to Director approval and appropriate documentation recorded in the public records of Leon County." Reference Section 10-4.210(d).

6. **Landscape and tree maintenance, if applicable.** All landscaping, landscaped areas, landscape development, buffer areas, and trees required as part of this permit shall be maintained and used pursuant to Sections 10-4.348(b), 10-4.355, 10-4.209(f)(1)(h), 10-4.209(g)(7) and 10-4.211 of the Land Development Code and shall be checked for compliance during the operating permit renewal process.

7. **Intergovernmental Transfer.** If at any time, the City of Tallahassee (the "City") annexes the permitted development into its corporate boundary, then this permit shall be transferred to the City with all
provisions fully enforceable by the City. The City shall assume the role of the County in each provision of this permit.

8. System Evaluation & Redesign. At any time, should the County determine that the stormwater management system, stormwater pollution prevention plan, landscape plan, or any maintenance program is not functioning as designed, the County may request a system evaluation to determine compliance. The Permittee shall have thirty (30) days to evaluate the discrepancy and respond. Should the Permittee verify that a discrepancy exists, then the Permittee shall have sixty (60) days to redesign and implement the appropriate redesign necessary to correct the discrepancy. This process does not apply to any event of noncompliance with the permit and approved plans, in which case the enforcement provisions of the Environmental Management Act shall apply.

9. Termination of Permit. The requirements, responsibilities and obligations of the Permittee in the General Conditions, Specific Conditions, and Special Conditions shall never expire with this permit. The Permittee may terminate such requirements, responsibilities and obligations either by an appropriate transfer as prescribed in Paragraph 12 of the General Conditions or by closing the development in a manner guaranteeing the preservation of natural areas, conservation easement areas, and/or other protected areas. Such closure shall require the submittal and approval of a short form environmental management permit which states appropriate plans to close the project in a manner that will ensure compliance with the Environmental Management Act upon and after termination of responsibility. Reference Section 10-4.214(1)(c).

10. Other Permits. This permit is issued with the condition that the applicant procure and comply with all other necessary federal, state, and local agency permits, including but not limited to the Florida Department of Environmental Protection (FDEP) permit, Florida Department of Transportation (FDOT) drainage and/or access connection permits, NPDES permit and Leon County driveway connection permit. These permits must be provided to the environmental inspector prior to the start of construction. Reference Section 10-4.201(f).

11. Construction or repair of buildings, excavation of streets and highways: The construction, demolition, alteration or repair of any building or the excavation of streets and highways other than between the hours of 7:00 a.m. and 8:00 p.m. on weekdays and Saturdays and between 9:00 a.m. and 5:00 p.m. on Sundays. This prohibition does not apply to the delivery and installation of concrete and other materials associated with residential slab installation. In cases of emergency, construction or repair noises are exempt from this provision. Reference Section 12-56(10).
SPECIAL CONDITIONS:

As shown in Exhibit “A” (the permit plan set), this permit authorizes the construction of infrastructure (i.e. grading, stormwater conveyance, berms stabilization, etc.) associated with the proposed outfall structure replacement of parcel ID. No.: 11-10-04-000 1, 11-10-04-000 2, 11-10-04- C-001 0, 11-10-04- C-002 0, & 11-10-04- C-024 0 in Leon County consistent with the attachments and exhibits accompanying this document.

1. As used herein, the term “permittee” shall refer to Leon County. This permit may be transferred to another party in accordance with the General Conditions. Upon the Director’s approval of a Notice of Transfer of Permit, the term “permittee” shall refer to the new property owner(s) identified in this approved notice. The permittee shall ensure that all contractors and other agents authorized by the permittee to conduct the permitted development activities abide by the terms and conditions of this permit.

2. The permittee or permittee’s authorized agent shall contact the County Environmental Inspector (hereinafter “inspector”) to arrange a pre-construction conference prior to the commencement of any construction/development activities. The inspector for this project is Ms. Brittany Varn who may be contacted at 850-606-1358 or 850-544-0828.

3. Development activities involving any retaining wall greater than two feet in height shall not commence until a building permit has been secured for such wall. All retaining walls higher than two feet shall require design and certification by a registered professional engineer retained by the applicant.

4. Additional silt fences or other sediment/erosion control devices and measures may be required, as specified by the inspector. Proposed staging areas shall be discussed with the inspector and explicitly demarcated within the site.

5. All soil excavated as part of this project shall be used on-site or properly disposed of at an approved location.

6. Prior to project completion and request for final inspection, the reforestation requirements shall be met by replanting the project area with the required 35 tree credits. All trees planted in the project area shall be rated as Florida No. 1 or better and suitable for the individual site characteristics of soil, slope, aspect, wetness, and microclimate.

7. Notwithstanding the general and specific conditions contained in this permit, this project will require submittal of the following items to the Director at least 20 days prior to the permittee/applicant’s request for final inspection and ensuing request for final certificate of occupation:
   a. As-built plans (record drawings) with specific topographic information and a reference to the Official Record book and page of the conservation area, signed/sealed by a Florida licensed land surveyor.
   b. Compliance Certification signed/sealed by a Florida licensed Professional Engineer.
      i. The compliance certification shall include post-construction certification for any retaining walls greater than 2’ and specifically address whether such structure was built consistently with the approved plans and that required slope compaction and elevation have been achieved.

In the event that any condition of this permit is subject to multiple interpretations and becomes the source of conflict that cannot be resolved onsite by the contractor and the environmental inspector, the matter shall be forwarded to the Environmental Services Director for clarification/interpretation.
**Sheet No.** | **Sheet Description**
--- | ---
1 | Key Sheet
2 | Signature Sheet
3 | Existing Conditions
4 | Project Layout
5 | General Notes
6 | Typical Section Details
7 | Tree Removal
8 | Minimum Erosion Control
9 | Limits of Construction/Contractor Staging
10 | Plan
11 | Access Road Plan Profile
12 | Grading Plan
13-20 | Cross Sections
21 | Access Road Cross Sections
22 | Wetland Impacts
23 | Traffic Control General Notes
24 | Emergency Spillway Details
25 | Miscellaneous Drainage Details
26 | Drainage Structure Details
27-28 | Construction Details
29 | Wall Control SP-2
30-33 | Steel Sheet Pile Notes
34 | Steel Sheet Pile Details (1 of 3)
35 | Steel Sheet Pile Details (2 of 3)
36 | Steel Sheet Pile Details (3 of 3)
37 | Structure Notes
38 | Reinforcement Details (1 of 4)
39 | Reinforcement Details (2 of 4)
40 | Reinforcement Details (3 of 4)
41 | Reinforcement Details (4 of 4)
42 | Skimmer Details (1 of 2)
43 | Skimmer Details (2 of 2)
44 | Reinforcing Bar List
45 | Foundation Details
46 | Helical Pile Details
47 | Boardwalk Structural Notes
48 | Boardwalk Plan and Elevation
49 | Boardwalk Details (1 of 4)
50 | Boardwalk Details (2 of 4)
51 | Boardwalk Details (3 of 4)
52 | Boardwalk Details (4 of 4)
1. HORIZONTAL COORDINATES ARE BASED ON A SURVEY COMPLETED BY NOBLES CONSULTING GROUP, INC. JOB NO. 1635-002, DATED BASED ON A SURVEY COMPLETED BY EAGLE AERIAL SURVEYORS, INC. JOB NO. 1635-002, DATED 09/15/17.  
2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND ARE CONSIDERED APPROXIMATE ONLY. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.  
3. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4702) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE (OR 10 DAYS ADVANCE NOTICE IF DIGGING UNDER WATER).  
4. ANY PUBLIC LAND ORERDER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED, IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE, ANY MONUMENT OTHERWISE DESTROYED, DURING CONSTRUCTION WILL BE REST BY A FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.  
6. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROPERTY BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE COUNTY, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE COUNTY WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL, THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE COUNTY.  
7. ALL SOIL MATERIALS SHALL BE SUBJECT TO INSPECTION BY THE COUNTY PRIOR TO PLACE ANY SOIL WITH NOxious WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT, THE CONTRACTOR SHALL FURNISH THE COUNTY, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY, STATING THAT THE SOIL, HAY, STRAW AND MULCH MATERIALS ARE FREE OF NOxious WEEDS, INCLUDING TROPICAL SODA APPLE. ALL SOIL SHALL BE OVER SEEN AT THE DIRECTION OF THE COUNTY. THE COST OF OVER SEEDING SHALL BE INCLUDED IN THE COST OF THE SOIL.  
8. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AS NOTED ON THE PLAN SHEETS. ALL STAGING AREAS NOT SHOWN IN THE PLANS SHALL REQUIRE APPROVAL FROM THE COUNTY. PUBLIC WORKS PRIOR TO CONSTRUCTION. STAGING STATIONS ARE OUTSIDE THOSE SHOWN ON THE PLAN ALSO REQUIRE APPROVAL BY LEON COUNTY DEVELOPMENT SUPPORT & ENVIRONMENTAL MANAGEMENT (DS&EM) AND SHALL REQUIRE A SEPARATE ENVIRONMENTAL PERMITS FROM DESE.  
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL WORK UNDER IMPROVEMENT, AT HIS COST, UNTIL SUCH TIME AS THE COUNTY ISSUES A CERTIFICATE OF COMPLETION.  
10. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT WRITTEN PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND LEON COUNTY.  
11. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, 3 SETS OF PLANS, CALCULATIONS, AND SPECIFICATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, FOR ANY PROPOSED CHANGES TO THE CONTRACT DOCUMENTS, TO BE REVIEWED AND APPROVED/REJECTED BY LEON COUNTY.  
12. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MAY BE TAKEN INTO CONSIDERATION WHEN OBTAINING SCALDES DATA.  
13. IF ARCHEOLOGICAL FEATURES OR ARTIFACTS ARE ENCOUNTERED DURING PROJECT ACTIVITIES, IMMEDIATELY CONTACT THE DEPARTMENT OF STATE, DIVISION OF HISTORIC RESOURCES, R.A. GRAY BUILDING 500 SOUTH BRIDGE STREET TALLAHASSEE, FL 32399-0250 (850) 245-6333  
14. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ADDITIONAL PERMITS NOT PREVIOUSLY ACQUIRED DURING DESIGN THAT ARE NECESSARY TO COMPLETE THE PROJECT. ALL COSTS FOR ALL ADDITIONAL PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.  
15. DURING ALL NON-WORK HOURS, NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE STORED WITHIN THE ROADWAY, ALL STORAGE AND/OR STAGING AREAS USED SHALL BE APPROVED BY LEON COUNTY.  
16. ALL EXISTING FENCING THAT WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND REPLACED IN KIND AT CONTRACTORS EXPENSE.  
17. IF A STRUCTURAL FAILURE IS OBSERVED DURING CONSTRUCTION THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDA AQUIC SYSTEM, CORRECTIVE ACTION DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. THE CONTRACTOR SHALL SUBMIT A REPORT PREPARED BY A REGISTERED PROFESSIONAL TO THE COUNTY FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREECH WILL BE PERMANENTLY CLOSED AT NO EXPENSE TO THE COUNTY.  

SEQUENCE OF CONSTRUCTION:

1. PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY ENVIRONMENTAL INSPECTOR.
2. SUBMIT A DEWATERING AND TURBIDITY CONTROL PLAN TO LEON COUNTY PUBLIC WORKS FOR APPROVAL. PLANS SHALL INCLUDE PROVISIONS FOR DEWATERING TO ENSURE ALL BACKFILL AND COMPACTION IS ACCOMPLISHED UTILIZING THE DRY FILL METHOD. PLAN SHALL BE SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER AND INCLUDE TURBIDITY TESTING REQUIREMENTS TO MEET LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. INSTALL TREE PROTECTION BARRIERS. CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE THE PDO SYSTEM OF NEARBY TREES. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIED LINE OF TREES TO REMAIN.
4. INSTALL EROSION CONTROL DEVICES (SILT FENCE, TURBIDITY BARRIERS, ETC.) IN ACCORDANCE WITH THE PROJECT PLANS, CONTRACTOR TURBIDITY CONTROL PLANS AND FOOT STANDARD SPECIFICATIONS.
5. ESTABLISH LIMITS OF CLEARING AND GRUBBING.
6. CONSTRUCT HARRY'S FERRY DRIVE MAINTENANCE ACCESS ROAD.
7. DEWATER PER THE LEON COUNTY PUBLIC WORKS APPROVED CONTRACTOR DEWATERING PLAN.
8. REMOVE ALL REMOVAL ITEMS, INCLUDING EXISTING CONTROL STRUCTURE, DISCHARGE PIPE, AND SAND FILTER DISPOSAL OF ALL DEMOLITION ITEMS OFF SITE IN A LEGAL MANNER.
9. INSTALL ROCK FILTER AT TJE OF BERM.
10. INSTALL STEEL SHEET PILES IN ACCORDANCE WITH THE WALL DESIGN DRAWING AND THE STEEL SHEET PILE NOTES AND DETAILS. ALL PILE DRIVING ACTIVITIES SHALL OCCUR DURING NORMAL BUSINESS HOURS OF 8AM-5PM, MONDAY THROUGH FRIDAY.
11. INSTALL BEPART SUPPORT HELICAL PILES AND CONSTRUCT THE CONCRETE WEIR.
12. REGRADE THE EXISTING BERM AS SHOWN ON THE GRADING PLAN AND CROSS SECTIONS, INSTALL PROPOSED SIDE BANK SAND FILTER AND CONCRETE LINED EMERGENCY SPILLWAY.
13. CONSTRUCT TIMBER BOARDWALK.
14. FINISH GRADE AND SOIL AS SHOWN IN THE PLANS.
15. REMOVE ALL EROSION CONTROL DEVICES AT THE END OF CONSTRUCTION AND AFTER SITE IS STABILIZED, WITH APPROVAL FROM THE COUNTY ENVIRONMENTAL INSPECTOR.
16. SITE SHALL BE CLEANED, DEBRIS REMOVED, AND CORRECTIONS MADE TO ENSURE A PESTILENT AND NEW CONDITION FOR THE PROJECT PER THE CONSTRUCTION PLANS AND SPECIFICATIONS SPECIFICALLY, ALL TRASH WILL BE COLLECTED, SOD REPLACED WHERE DAMAGED, AND SOILED STRUCTURES SHALL BE CLEAN.

ADDITIONAL NOTES:

1. AS-BUILT PLANS WITH SPECIFIC TOPOGRAPHIC INFORMATION, SIGNED AND SEALED BY A FLORIDA LICENSED LAND SURVEYOR AND A COMPLIANCE CERTIFICATE SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED AND SHOULD BE SUBMITTED TO THE COUNTY AT LEAST 20 DAYS PRIOR TO THE PERMIT/APPLICANT'S REQUEST FOR FINAL INSPECTION. LANDSCAPE AS-BUILT (IF REQUIRED) WILL BE SUBMITTED TO LEON COUNTY DS&EM.

GENERAL NOTES SHEET 5

REGULATES SLIDER ENGINEERING, INC.
ENGINEER OF RECORD JIM Z JUDD, P.E.
P.E. LICENSE NUMBER 25350
CERTIFICATE OF AUTHORIZATION 9302
3390 CAPITAL CIRCLE W. SUITE 110
TALLAHASSEE, FL 32308
PHONE: (850) 606-1500 * FAX: (850) 606-1501

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
1303 E. COUNTY ROAD, TALLAHASSEE, FL 32308
PHONE: (850) 606-1500 * FAX: (850) 606-5071

PROJECT NAME: CENTERVILLE TRAC POND STRUCTURE REPLACEMENT

PREPARED BY A REGISTERED PROFESSIONAL TO THE COUNTY FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREECH WILL BE PERMANENTLY CLOSED AT NO EXPENSE TO THE COUNTY.
1. **Geor Web Cellular Confine System** should be GW20v-cell system manufactured by Presto Geosystems or approved equal. Presto Geosystems may be contacted at:

   (800) 548-3624 or online at www.PrestoGeo.com

2. Prior to installation, the contractor shall submit for approval by the engineer calculations for Geor Web system support and anchorage requirements for 25% of loading and/or anticipated construction loads, whichever is greater, signed and sealed by a professional engineer licensed in the state of Florida.

3. Prior to installation, the contractor shall submit shop drawings for approval by the engineer including manufacturer's product data, samples and section layout.

4. Install cellular confinement Geor Web system in accordance with the manufacturer's specifications and recommendations.

5. The cellular confinement system material shall be provided from a single manufacturer for the entire project.

6. The manufacturer's quality management system shall be certified and in accordance with ISO 9001:2008 and CE certification. Any substitute materials submitted shall provide a certification that their cellular confinement manufacturing process is part of an ISO Program and a certification will be required specifically stating that their testing facility is certified and in accordance with ISO. An ISO Certification for the substitute material will not be acceptable unless it is proven it pertains specifically to the Geor Web manufacturing operations.

7. The manufacturer shall provide certification of compliance to all applicable testing procedures and related specifications. The manufacturer shall have a minimum of 20 years experience producing cellular confinement systems.

8. Geotextile separation layer shall be advanced drainage systems (ADS) or geosynthetic geotextiles or approved equal. ADS can be contacted at:

   (800) 821-6710 or online at www.ADD-Pipe.com

   The manufacturer's quality management system shall be certified and in accordance with ISO 9001:2008 and CE certification. Any substitute materials submitted shall provide a certification that their manufacturing process is part of an ISO Program and a certification will be required specifically stating that their testing facility is certified and in accordance with ISO. An ISO Certification for the substitute material will not be acceptable unless it is proven it pertains specifically to the Geor Web manufacturing operations.

9. Prior to installation, the contractor shall submit shop drawings for approval by the engineer including manufacturer's product data, samples and section layout.

10. Geor Web cellular confinement system shall be installed in accordance with manufacturer specifications and recommendations.

**Typical Section Details**

- **Erosion Control Blanket** shall be EP-2 Polypropylene Turf Reinforcement
- **MAT manufactured by East Coast Erosion Control or approved equal** shall be installed in accordance with manufacturer specifications and recommendations.

**Typical Section Details**

- **Maintenance Access Road**
- **Berm Stabilization**

**Note:**

Geor Web GW20v system or approved equal shall be anchored with tendons and ATRA anchors, and shall consist of the following:

- GW20v-cell with 8" nominal cell depth
- ATRA clips
- ATRA keys
- ATRA anchors
- Woven Kevlar tendon anchors
- ATRA tendon clips

**Erosion Control Blanket**

- See miscellaneous drainage details sheet

**SIDES:**

- See miscellaneous drainage details sheet

**Steel sheet pile wall see wall control SP-1**

**Rock filter blanked (varies)**

**Match existing**

**Existing ground**

**Property line**

**LIMITS OF CONST.**

**8" Linerock base (LBR) 3000 placed on geotextile separation layer**

**8" Geor Web GW20v or approved equal with 3000 psi concrete infill placed on geotextile separation layer with medium brown finish**

**Typical Section Details**

- **Maintenance Access Road**

**TYPICAL SECTION TYPICAL SECTION TYPICAL SECTION TYPICAL SECTION TYPICAL SECTION DETAILS DETAILS DETAILS DETAILS DETAILS**
**Tree Debit List**

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**Total Removed Trees**

- 38

**Notes:**

- The services of a certified arborist are required for the tree protection work. The contractor is responsible for hiring the certified arborist and coordination of all tree protection efforts.
MAINTENANCE OF TRAFFIC NOTES

1. CONTRACTOR SHALL FORWARD MAINTENANCE OF TRAFFIC PLANS TO THE LEON COUNTY PROJECT MANAGER FOR APPROVAL. MAINTENANCE OF TRAFFIC PLANS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR CERTIFIED BY AN INDIVIDUAL WITH A CURRENT FOOT CERTIFIED ADVANCED NOT PRACTITIONER CERTIFICATE.

2. TRAFFIC IS TO BE MAINTAINED IN ACCORDANCE WITH FOOT STANDARD PLANS 102-603 AND 102-404. DEPENDING UPON THE OPERATION TO BE PERFORMED, FOR GENERAL TC2 REQUIREMENTS AND ADDITIONAL INFORMATION, REFER TO STANDARD PLANS INDEX 102-600.

3. THE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS FOR ROAD CONSTRUCTION.

4. EXISTING SPEED LIMIT SIGNS SHALL BE MAINTAINED WITHIN THE LIMITS OF THE ACTIVE WORK ZONES ALONG PROJECT.

5. POSITIVE DRAINAGE SHALL BE MAINTAINED PRIOR TO, DURING, AND AFTER CONSTRUCTION.

6. ALL LINES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS DURING AN EVACUATION NOTICE OF A HURRICANE OR ANY OTHER CATASTROPHIC EVENT, AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE LEON COUNTY PROJECT MANAGER.

7. PUBLIC ACCESS TO RESIDENCES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

8. CONTRACTOR IS RESPONSIBLE FOR KEEPING UP ROAD MAINTENANCE DURING CONSTRUCTION. CONTRACTOR SHALL STREET SWEEP DAILY OR AS NECESSARY TO KEEP STREETS FREE OF SEDIMENT AND DEBRIS.

9. ALL LANE CLOSURES SHALL REQUIRE APPROVAL FROM LEON COUNTY. REQUESTS SHALL BE SUBMITTED TO LEON COUNTY 2 WEEKS PRIOR TO LANE CLOSURE OPERATIONS.
CONCRETE LINED EMERGENCY SPILLWAY DETAIL

1. **SECTION A-A**
   - Wrap around embankment continuously to edges of concrete pavement (Typ.)
   - Note: Vertical joints shall be sealed.

2. **DRAIN HOLE DETAIL**
   - Drain hole formed with 4" Ø pipe @ 8" Ø centers (staggered)
   - Galvanized wire mesh: 8" x 1' - 0" x 1/2" opening, (centered at drain)
   - Clean free-draining sand (< 5% passing no. 200 sieve)

3. **CONCRETE LINED EMERGENCY SPILLWAY**
   - Expansion joint see detail A
   - Hot poured sealer or type A or B silicone per specification 932
   - Sika Greenstream PVC waterproof 640 Dumbbell Centerbolt or approved equal.
   - 1/8" preformed expansion joint material

4. **PLAN**
   - See detail A
   - Expansion joint see detail A (Typ.)
   - Drain hole detail (Typ.)

---

**PLAN**

- Concrete lined emergency spillway detail
- Expansion joint see detail A (Typ.)
- Drain hole detail (Typ.)
1. ROCK SHALL BE RUBBLE RIPRAP DITCH LINING IN ACCORDANCE WITH FOOT STANDARD SPECIFICATIONS SECTION 530.
2. FOR LOCATION AND LIMITS OF ROCK FILTER, SEE GRADING PLAN.
3. ROCK FILTER SHALL BE INSTALLED PRIOR TO INSTALLATION OF STEEL SHEET PILE WALL.

EXCAVATION SLOPES FOR INSTALLATION OF ROCK FILTER SHALL NOT EXCEED 1V:2H.

**Downstream Rock Filter Detail**

1. FOOT TYPE D-2 FILTER FABRIC ENVELOPE
2. INTERNAL FILTER FABRIC
3. 3" OF COARSE AGGREGATE
4. FINE AGGREGATE

---

**Side Bank Sand Filter Detail**

1. FINE AGGREGATE SHALL BE QUARTZ SAND MEETING THE REQUIREMENTS OF SECTION 902-4 OF THE FOOT STANDARD SPECIFICATIONS.
2. COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF FOOT STANDARD SPECIFICATIONS SECTIONS 901-2 OR 901-3. GRADATION SHALL BE ACCORDING TO SECTION 901, GRADES 4, 467, 5, 56 OR 57 STONE.
3. UNDERDRAIN SHALL BE IN ACCORDANCE WITH FOOT STANDARD SPECIFICATIONS SECTION 440.
4. FILTER FABRIC SOCK SHALL MEET THE REQUIREMENTS OF FOOT STANDARD SPECIFICATIONS SECTION 94.
5. ALL FILTER FABRIC JOINTS SHALL OVERLAP A MINIMUM OF 1".
6. UNDERDRAIN OUTLET PIPES SHALL BE NONPERFORATED AND ALL BENDS SHALL BE MADE USING 1/2" (45 DEG.) ELBOWS. 90 DEG. BENDS SHALL BE CONSTRUCTED WITH TWO 1/2 ELBOWS SEPARATED BY AT LEAST 1' OF STRAIGHT PIPE.
7. PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM F719 OR ASTM F949. PERFORATED PVC PIPE SHALL BE IN ACCORDANCE WITH THE PERFORATION REQUIREMENTS GIVEN IN AASHTO M36 OR AASHTO M196.
S - 110

PLAN VIEW

STA. 300+67.13
OFFSET = 17.50 LT
U-TYPE ENDWALL
FOOT STANDARD PLANS
INDEX 436-011

SECTION A-A VIEW

TOP EL. = 159.33

A-A

TOP OF GRADE EL. = 159.33

MIN. STRUCTURAL
BOTTOM EL. = 153.37

GUTTER INLET TYPE V

A-A

PLAN VIEW

STA. 300+82.58
OFFSET = 0.00 LT
TYPE V GUTTER INLET
FOOT STANDARD PLANS
INDEX 425-041

SECTION A-A VIEW

INV. EL. = 155.43 (NW & SE)

MIN. STRUCTURAL
BOTTOM EL. = 154.72

S - 120

GUTTER INLET TYPE V

PLAN VIEW

STA. 301+55.00
OFFSET = 0.00 LT
TYPE V GUTTER INLET
FOOT STANDARD PLANS
INDEX 425-041

SECTION A-A VIEW

INV. EL. = 174.00 (NW & SE)

MIN. STRUCTURAL
BOTTOM EL. = 173.29

S - 140

GUTTER INLET TYPE V

NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM THE ACCESS ROAD UNLESS OTHERWISE NOTED.
1. Floating Turbidity Barrier

- One foot per each inch of caliper (DBH) or per plan location
- Existing trees or protected area
- 1" x 4" stringers
- 2" x 4" posts (embedded until stable)

Note: Tree protection barricades shall be located to protect the critical protection zone (CPZ).

2. Soil Tracking Prevention Device

- Note: Maintain in a condition which will prevent tracking or flow of mud onto public roadway.

3. Tree Protection Barricade Detail

- Existing ground
- Stringers to be wrapped with orange flagging
- Optional post positions

4. Type III Silt Fence

- Foot type D-2 geotextile
- 2" to 4" coarse aggregate
- Filter fabric (in accordance with post specification section 98)

- CONSTRUCTION DETAILS

PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2201 WESLEY ROAD, TALLAHASSEE, FLORIDA 32308
PHONE: (850) 894-4521 - FAX: (850) 234-0700

ZION TRUST, SLIGER ENGINEERING, INC.
ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.
P.O. BOX 708
3370 CAPITAL CIRCLE WEST
TALLAHASSEE, FL 32306
PHONE: (850) 894-4521 - FAX: (850) 234-0700

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TALLAHASSEE, FL 32306
PHONE: (850) 894-4521 - FAX: (850) 234-0700

REVISED VERSION: 2017-02-27
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT

NOTE: The original record of this sheet is the electronic file digitally signed and sealed under Rule 61G15-23.004, F.A.C.
GENERAL NOTES:

1. THE DESIGN PARAMETERS INDICATED IN THE TABLES WERE USED IN THE SHEET PILE WALL ANALYSIS. IF THE CONTRACTOR PLANS OPERATIONS WHICH EXCEED THE DESIGN PARAMETERS SHOWN, THE CONTRACTOR'S SPECIALTY ENGINEER WILL REDESIGN THE WALL TO RESIST CONSTRUCTION LOADS AT A MAXIMUM DEFLECTION OF 3 INCHES.

2. THE EMANKING SEEPAGE INVESTIGATION WAS PERFORMED BY ENVIRONMENTAL, AND GEOTECHNICAL SPECIALISTS, INC. SEE REPORT OF CORE BORINGS FOR BORING LOCATION AND SOIL PROPERTIES.

3. THE ENVIRONMENTAL CLASSIFICATION FOR THE STRUCTURE IS EXTREMELY AGGRESSIVE.

SHEET PILE DRIVING NOTES:

1. SHEET PILE WALLS SHALL BE DRIVEN BY USE OF VIBRATORY OR PRESS IN METHODS ONLY.

2. ALL SHEET PILE SECTIONS SHALL BE DRIVEN TO THE MINIMUM DEPTHS SHOWN IN THE PLANS. PILES SHALL BE DRIVEN SO AS NOT TO SUBJECT THE PILES TO DAMAGE AND TO ENSURE PROPER INTERLOCK THROUGHOUT THEIR LENGTH. CONTRACTOR SHALL REMOVE AND REPLACE ANY SECTION DAMAGED DURING HANDLING AND/OR INSTALLATION OR PILES DRIVEN OUT OF INTERLOCK AT NO COST TO THE CONTRACTOR.

3. ALL SHEET PILES MAY HAVE SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THE SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION AND DIMENSIONS NECESSARY TO CONSTRUCT THE WALLS. CONTRACTOR SHALL SUBMIT A PILE DRIVE INSTALLATION PLAN TO THE ENGINEER 14 DAYS PRIOR TO PILE INSTALLATION FOR APPROVAL INCLUDING:

- SEQUENCE OF PILE SECTION DRIVING
- MANUFACTURER'S DATA SHEETS ON HAMMERS
- LIST AND SIZE OF ALL EQUIPMENT INCLUDING CRANES AND DRIVING EQUIPMENT
- MONITORING PLAN

CONTRACTOR SHALL PROVIDE A FIXED TEMPLATE, ADEQUATE TO MAINTAIN THE PILE IN PROPER POSITION AND ALIGNMENT DURING DRIVING, WHERE PRACTICAL, PLACE THE TEMPLATE SO THAT THE PILE CAN BE DRIVEN TO CUT-OFF ELEVATION BEFORE REMOVING THE TEMPLATE. ENSURE THAT TEMPLATES DO NOT RESTRICT THE VERTICAL MOVEMENT OF THE PILE. SUPPLY A STABLE REFERENCE CLOSE TO THE PILE, WHICH IS SATISFACTORY IN THE OPINION OF THE ENGINEER FOR DETERMINATION OF THE PILE PENETRATION AT THE TIME OF DRIVING PILES, FURNISH THE ENGINEER WITH ELEVATIONS OF THE ORIGINAL GROUND AND TEMPLATE AT EACH PILE.

4. TEMPORARY SOIL EXCAVATION, EMBANKMENT AND/OR Dewatering of the site may be required as means and methods to install the sheet pile sections. All excavation support and dewatering design shall be performed by a Professional Engineer licensed in the state of Florida with a minimum of 10 years experience with similar design work.

5. SHEET PILE SECTIONS SHALL BE DRIVEN PLUMB WITHIN A TOLERANCE OF 1% IN ANY DIRECTION.

6. JETTING OF SHEET PILE WALLS SHALL NOT BE PERMITTED.

SHEET PILE INSTALLATION NOTES:

1. SHEET PILE WALLS SHALL BE INSTALLED SUCH THAT THE LEADING INTERLOCK IN THE DIRECTION OF DRIVING DOES NOT CONTAIN THE WATER-SWELLING PRODUCT.

2. PRIOR TO THREADING THE TRAILING INTERLOCK OF THE FOLLOWING SHEET (TREATED WITH WATER-SWELLING PRODUCT AND LUBRICATED), INSTALL UNRECOVERABLE INTERLOCK CLEANING TOOL AS PROVIDED BY THE MANUFACTURER FOR EXPULSION OF SOIL FROM THE LEADING INTERLOCK.

3. THE WATER-SWELLING PRODUCT SHALL BE LUBRICATED IMMEDIATELY PRIOR TO SHEET PILE INSTALLATION USING A COMMERCIAL SOAP SOLUTION APPLIED TO THE INTERLOCK WITH A PAINT BRUSH.

4. INDIVIDUAL SHEET PILES SHALL BE DRIVEN TO GRADE IN THEIR FINAL POSITION WITHIN 2 HOURS TO AVOID EXPANSION AND STRIPPING OF THE WATER-SWELLING PRODUCT. PARTIALLY DRIVEN PILES SUSPENDED OR NOT DRIVEN TO GRADE AND IN FINAL POSITION IN EXCESS OF 2 HOURS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. THE EXISTING WATER-SWELLING PRODUCT SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THESE NOTES.


X-1065 EX Địa 07 29 2023

SHEET PILE SECTION:

1. HOT ROLLED STEEL SHEET PILE SHALL BE PROVIDED BY SKYLINE STEEL OR APPROVED EQUAL. STEEL SHEET PILE SECTIONS SHALL BE NZ-28. SKYLINE STEEL MAY BE CONTACTED AT 1-866-875-0546 OR ONLINE AT WWW.SKYLINESTEEL.COM

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SHEET PILE INTERLOCK WELDING:

1. ALL WELDS SHALL CONFORM TO ANSI/AWS D1.1-96 UTILIZING E7018 ELECTRODES. WELDS SHALL BE A MINIMUM OF 2/3 THICK.

2. PILES SHALL BE PLACED TO THE SITE IN DOUBLE UNITS WITH THE CENTER INTERLOCKS (THREADED AT THE FACTORY) WITH SEALING WELDING CARRIED OUT AT THE FACTORY IN A HORIZONTAL POSITION. WELDING SHALL BE PERFORMED PER THE MANUFACTURER'S INSTRUCTIONS.

3. WHEN THE GAP BETWEEN ADJACENT INTERLOCKS IS SMALL ENOUGH, IT IS POSSIBLE TO CREATE A SEAL BY APPLYING A SIMPLE FILLET WELD ACROSS THE JOINT.

4. WHERE THE GAP IS TOO LARGE TO BE BRIDGED IN A SINGLE PASS, INTRODUCTION OF A SMALL DIAMETER BAR CAN BE EFFECTIVE WITH A WELD RUN APPLIED TO EITHER SIDE OF THE JOINT TO CREATE THE SEAL.

SHEET PILE COATING REQUIREMENTS:

1. COAT ENTIRE SURFACE OF STEEL SHEET PILES WITH THE EXCEPTION OF NON-WELDED INTERLOCK CHAMBERS.

2. STEEL SHEET PILE COATING SHALL BE A SHOP APPLIED COATING, CONSISTING OF AN INORGANIC ZINC PRIMER COAT, AND 2 COATS OF COLD TAN EPOXY IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 560.

3. COATING APPLICATION EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S TECHNICAL DATA REQUIREMENTS.

4. STEEL SHEET PILE SURFACES IN CONTACT OR ENCASED IN CONCRETE SHALL NOT BE COATED.

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<td>CENTERVILLE TRANCE POND STRUCTURE REPLACEMENT</td>
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1. THE WATER-SWELLING PRODUCT SHALL BE ADEKA ULTRA SEAL P-021 HYDROPHILIC WATERSTOP OR APPROVED EQUAL. THE PRODUCT SHALL BE A HYDROPHILIC URETHANE PASTE AND SHALL MEET THE MINIMUM PERFORMANCE CRITERIA:

- **Hardness HS:** 45
- **Tensile Strength:** 4 MPa
- **Viscosity:** 900 Pa·s
- **Specific Gravity:** 1.25
- **Volume Expansion:** 100%
- **Mass Change:** Not greater than 5%

2. THE WATER-SWELLING PRODUCT SHALL BE FIELD APPLIED USING THE ROXAN SEALANT SYSTEM OR APPROVED EQUAL. THE FOLLOWING SPECIFICATIONS SHALL BE APPLIED ALONG WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS:

1. **The Interlock Must Be Dry Prior to Application.**
2. **Lay Out the Piling in the Horizontal Position.**
3. **Recently Rolled Piles Need to Be Cleaned with a Jet of Compressed Air.**
4. **In the Event of Corrosion in the Interlock, Clean with a Steel Wire Brush and/or High Pressure Water Jet.**
5. **Apply to the Sheet Pile Interlock Using an Airless or Extrusion Pump at a Rate of 90 LF per Gallon.**
6. **In Order to Ensure Adequate Coating of the Sheet Pile Interlock, Use the Manufacturer Supplied Profilanced Patented Template to Extrude and Spread the Water-Swelling Product.**
7. **Fill in the Interlock Taking into Account the Direction of the Driving.**
8. **The Piles Shall Be Supplied and Fitted Together in Double Units, the Intermediate Interlock Shall Be Shop Welded Only the Trailing Interlock Shall Be Filled with the Water-Swelling Product.**
9. **Piles with Water-Swelling Product Shall Be Transpored with the Openings of the Sealed, Free Interlocks Facing Downwards.**
10. **The Water-Swelling Product Shall Be Applied Under Shelter at Ambient Temperatures, Prior to Driving of Sheets, Allow for a Minimum Cure Duration of 48 Hours After Application of Water Swelling Product. Store Sheets During Cure Period With the Open Ends of the Sealed Interlocks Facing Downward and Under Shelter.**

**Sheet Pile Splicing:**

1. **At the Contractor's Option, the Steel Sheet Piles May Be Supplied in Full Length Sections or Partial Length Sections, If the Contractor Elects to Have the Sheets Supplied in Partial Sections, the Sections Shall Be Field Spliced in Accordance With the Steel Sheet Pile Splicing Details.**
PLANS INDEX 515-062

1. ADHESIVE BOND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 41M.
2. ADHESIVE ANCHORS SHALL BE ASTM A307 WITH A MINIMUM TENSILE STRENGTH OF 60ksi.
3. PROVIDE HEAVY HEX NUTS MEETING THE REQUIREMENTS OF ASTM A563.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS (D1.1).

PIECE PENETRATION NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO LEON COUNTY FOR APPROVAL, PRIOR TO CONSTRUCTION SHOWN PENETRATION DETAILS.
2. PIPE WALL PENETRATIONS SEALS TO BE OF THE MODULAR LINK TYPE. SEALS SHALL CONSIST OF A SERIES OF INTERLOCKING, MOULDED SYNTHETIC RUBBER LINKS, WITH HEAVY-DUTY PLASTIC PRESSURE PLATES, AND STAINLESS STEEL NUTS AND BOLTS.
3. SEALS TO BE DESIGNED TO PROVIDE A HYDROSTATIC SEAL BETWEEN THE PIPE AND WALL PENETRATION. SEALS SHALL BE SELECTED PER THE MANUFACTURER RECOMMENDATIONS.
4. TECHNICAL PIPE SEALS SHALL BE FABRICATED OF A FROM ELASTOMER FOR GENERAL SERVICE. MANUFACTURER SHALL BE GP INDUSTRIES OR APPROVED EQUAL.
5. PIPE SHALL BE 304 STAINLESS STEEL IN ACCORDANCE WITH ASTM A312.
1. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, LOCAL CODES, STANDARDS, REGULATIONS AND LAW. THE GOVERNING BUILDING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 2017, SIXTH EDITION INCLUDING ALL CURRENT AMENDMENTS.

2. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS. DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION, DO NOT SCALE DRAWINGS (+/-) USE ONLY PRINTED DIMENSIONS. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTION FROM THE ENGINEER.

3. THE STRUCTURE AND ITS COMPONENTS ARE DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING OR SUPPORT.

4. DETAILS LABELED "TYR" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTION REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE LEON COUNTY REPRESENTATIVE.

CONCRETE

1. CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346 OF THE FDOT STANDARD SPECIFICATIONS. CONCRETE SHALL INCLUDE A PERMEABILITY REDUCING MIXTURE SUCH AS SIKA WATER TIGHT CONCRETE POWDER OR APPROVED EQUAL. USE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

   CONCRETE CLASS
   MIN. 28 DAY COMPRESSIVE STRENGTH
   MAXIMUM WATER/CEMENT RATIO

   IV 5,500 PSI
   0.41

2. CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER." SEE FOOT STANDARD SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO THE CENTERLINE OF THE BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED IN FACE OF CONCRETE.

3. VIBRATE CONCRETE TO PREVENT HONEYCOMBS ANDVOIDS. DO NOT USE AD MIXTURES CONTAINING CHLORIDE SALTS IN THE CONCRETE.

4. ALL REINFORCING STEEL SHALL COMPLY WITH FDOT STANDARD SPECIFICATIONS SECTION 931.
SECTION H-H
CONCRETE STILLING BASING TYPICAL SECTION

4" x 4" SQUARE FRP DRAIN
@ 3'-0" O.C. ADJUST AS NECESSARY TO AVOID BASIN WALL REINFORCING

SECTION G-G
CONCRETE STILLING BASING AND WEIR OUTLET CUT-OFF WALL
FRP DRAIN COVER SHALL BE 1/4" GAUGE 201 STAINLESS STEEL EXPANDED SHEET SECURED TO CONCRETE STILLING BASIN WITH 4/0 x 1/2" STAINLESS STEEL TAPPER CONCRETE SCREWS.

NOTE: CONCRETE WEIR NOT SHOWN

CONCRETE STILLING BASING (REINFORCING NOT SHOWN FOR CLARITY) 1%-200PPH

SECTION F-F
CONCRETE FLOOR BLOCKS (TYP.)

SECTION E-E
INLET WINGWALL

SECTION D-D
OUTLET WINGWALL

CONCRETE FLOOR BLOCKS (TYP.)

SECTION C-C
CORNER DETAIL

NOTE: FOR CONSTRUCTION JOINT DETAILS, SEE WEIR DETAILS (3 OF 4).
1. The front panel, side panels, and flat bars are to be hot-dip galvanized after fabrication.

2. A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware.
| MARK | LOCATION | LENGTH | NO | TYPE | B | C | D | E | F | H | J | K | N | P |
|------|----------|--------|----|------|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 291-2 | 291-1/2 | 1-6 | 1-6 | 1-6 | 2-0 | 1-8 | 1-6 | 2-0 | 1-6 | 2-0 | 1-6 | 2-0 | 1-6 |
| 5 | 20 | 20 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 19 | 19 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 18 | 18 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 17 | 17 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 16 | 16 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 15 | 15 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 14 | 14 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 13 | 13 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 12 | 12 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 11 | 11 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 10 | 10 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 9 | 9 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 8 | 8 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 7 | 7 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 6 | 6 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 5 | 5 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 4 | 4 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 3 | 3 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 2 | 2 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |
| 5 | 1 | 1 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 | 2-0 |

NOTE: WORK THIS SHEET WITH FDOT STANDARD PLANS INDEX 0415-001.
BASEMENT SHEET

DESCRIPTION

DATE

REVISED

REVISIONS

2017

RÈGÈSTE, SLiger Engineering, Inc.
ENGINEER OF RECORD: JOHN F. SLIGER, P.E.
P.O. BOX 395580
JACKSONVILLE, FL 32239
PHONE: (904) 283-1500 - FAX: (904) 283-1501

DEPARTMENT OF PUBLIC WORKS

2017=

PROJECT NAME:

CENTERVILLE TRACE POND

STRUCTURE REPLACEMENT

SHEET NO.

43

NOTES:

1. ALL PILES SHALL BE HP350 HELICAL PILES SUPPLIED BY FOUNDATION SUPPORT WORKS INC. OR APPROVED EQUAL.
2. FOR PILE INSTALLATION DETAILS AND NOTES, SEE HELICAL PILE DETAILS SHEET.
3. SEE ROADWALK DETAIL SHEETS FOR FOOTING AND ROADWALK DETAILS.

N 15° 07' 08" W

BOARDWALK PILES

STA. 2+26.53

BOARDWALK PILES

STA. 2+41.78

C-1-P CONCRETE FOOTING

SEE ROADWALK DETAILS SHEETS (TYP.)

FOOTING

STA. 2+49.49

FOOTING

STA. 2+49.75

FOOTING

STA. 2+41.78

FOOTING

STA. 2+26.53

STA. 2+85.25

STA. 2+85.25

STA. 2+08.47

STA. 2+93.22

STA. 2+85.51

HP350 HELICAL PILE

(TYP.)

TYPICAL BOARDWALK PILE SPACING

TYPICAL BOARDWALK PILE SPACING

WETLAND LINE

WETLAND LINE

APPROXIMATE EDGE OF WATER

APRIL 20, 2017

SHEET

E L. 151.4

12' - 0"

17' - 0"

13' - 6"

2'

1'

3' - 8"

7' - 5"

4' - 10"

8"

1'

3

S T A . 2 + 0 8 . 4 7

S T A . 2 + 8 5 . 2 5

S T A . 2 + 8 5 . 5 1

S T A . 2 + 9 3 . 2 2

B E G I N  B O A R D W A L K

S T A . 1 + 8 5 . 5 1

S T A . 1 + 8 5 . 2 5

S T A . 1 + 9 3 . 2 2

F O O T I N G

F O O T I N G

F O O T I N G

F O O T I N G

E N D  B O A R D W A L K

( T Y P . )

BOARDWALK DETAILS.

SEE BOARDWALK DETAIL SHEETS FOR FOOTING AND BOARDWALK DETAILS.

FOUNDATION SUPPORT WORKS INC. OR APPROVED EQUAL.

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HELICAL PILE DATA TABLE

INSTALLATION CRITERIA

<table>
<thead>
<tr>
<th>STATION</th>
<th>PILE NO</th>
<th>SHAFT TYPE</th>
<th>MINIMUM TIP ELEVATION (ft)</th>
<th>ULTIMATE BEARING RESISTANCE (tons)</th>
<th>FINAL INSTALLATION TORQUE (lbf-ft)</th>
<th>MIN. OVERALL PILE LENGTH (ft)</th>
<th>FACTORED DESIGN LOAD (tons)</th>
<th>FS</th>
<th>K</th>
<th>MAXIMUM INSTALLATION TORQUE (lbf-ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2+12.00</td>
<td>1-4</td>
<td>HP350</td>
<td>124.0</td>
<td>50</td>
<td>13,413</td>
<td>35.0</td>
<td>23</td>
<td>2.0</td>
<td>7.0</td>
<td>17,500</td>
</tr>
<tr>
<td>2+23.00</td>
<td>1-4</td>
<td>HP350</td>
<td>124.0</td>
<td>50</td>
<td>13,413</td>
<td>35.0</td>
<td>23</td>
<td>2.0</td>
<td>7.0</td>
<td>17,500</td>
</tr>
<tr>
<td>2+08.47</td>
<td>1-2</td>
<td>HP350</td>
<td>143.06</td>
<td>12</td>
<td>3,457</td>
<td>16.0</td>
<td>6</td>
<td>2.0</td>
<td>7.0</td>
<td>17,500</td>
</tr>
<tr>
<td>2+26.53</td>
<td>1-2</td>
<td>HP350</td>
<td>143.06</td>
<td>12</td>
<td>2,457</td>
<td>16.0</td>
<td>6</td>
<td>2.0</td>
<td>7.0</td>
<td>17,500</td>
</tr>
</tbody>
</table>

PILE INSTALLATION NOTES:

1. HELICAL PILES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
2. THE REQUIRED ULTIMATE TORQUE-CORRELATED CAPACITY SHALL BE VERIFIED AT EACH PILE LOCATION, MONITORING AND RECORDING THE FINAL INSTALLATION TORQUE AND APPLYING DEFAULT TORQUE CORRELATIONS PER ICC-ES AC358.
3. THE HELICAL PILES SECTIONS SHALL BE ADVANCED INTO THE SOIL IN A CONTINUOUS MANNER AT A RATE OF ROTATION LESS THAN 25 RPM. SUFFICIENT CROWD SHALL BE APPLIED TO ADVANCE THE HELICAL PILE SECTIONS AT A RATE OF APPROXIMATELY EQUAL TO THE PITCH OF THE HELIX PLATE PER REVOLUTION. THE RATE OF ROTATION AND MAGNITUDE OF DOWNWARD PRESSURE SHALL BE ADJUSTED FOR DIFFERENT SOIL CONDITIONS AND DEPTHS. EXTENSIONS SHALL BE PROVIDED TO OBTAIN THE REQUIRED MINIMUM OVERALL LENGTH AND MINIMUM TORSIONAL RESISTANCE SHOWN.
4. IF THE TORSIONAL RESISTANCE DURING INSTALLATION REACHES THE HELICAL PILES ALLOWABLE TORQUE RATING PRIOR TO SATISFACTION OF THE MINIMUM TIP ELEVATION, TERMINATE THE INSTALLATION AT THE DEPTH OBTAINED.
5. THE CONTRACTOR SHALL PROVIDE LEON COUNTY COPIES OF THE INDIVIDUAL HELICAL PILE INSTALLATION RECORDS WITHIN 24 HOURS AFTER EACH INSTALLATION IS COMPLETED. FORMAL COPIES SHALL BE SUBMITTED WITHIN 30 DAYS FOLLOWING THE COMPLETION OF THE HELICAL PILE INSTALLATION. RECORDS SHALL CONTAIN AT A MINIMUM, THE FOLLOWING:
   - DATE AND TIME OF INSTALLATION
   - LOCATION OF HELICAL PILE AND PILE IDENTIFICATION NUMBER
   - TERMINATION DEPTH, PILE HEAD DEPTHS, AND LENGTH OF INSTALLED PILE
   - INSTALLED INCLINATION OF PILE
   - FINAL TORSIONAL RESISTANCE
   - CALCULATED GEOTECHNICAL CAPACITY BASED ON FINAL TORSIONAL RESISTANCE
   - COMMENTS PERTAINING TO INTERRUPTIONS, OBSTRUCTIONS OR OTHER RELEVANT INFORMATION
6. A SINGLE PILE LOAD TEST SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D2143 QUICK TEST METHOD AND THE FOLLOWING CRITERIA:
   - LOADING INCREMENTS SHALL BE PERFORMED AT 5% OF THE ANTICIPATED FAILURE LOAD OR MAXIMUM ANTICIPATED TEST LOAD WITH A MINIMUM HOLD TIMES OF 4 MIN.
   - AT EACH INCREMENT ON COMPLETION OF THE MAXIMUM LOAD, HOLD INCREMENT, THE PILES SHALL BE UNLOADED IN 5 TO 10 EVEN INCRMENTS WITH MINIMUM HOLD TIMES OF 4 MIN. AT EACH INCREMENT.

HELICAL PILE NOTES:

1. MINIMUM MATERIAL REQUIREMENTS:
   - SHAFTS: FY = 65 KSI, FU = 75 KSI, COUPLERS: FY = 70 KSI, FU = 80 KSI
   - HELIX PLATES: ASTM A52 OR 50
   - SPIRAL COUPLING HARDWARE: (4) - "1" INCH 5 BOLTS WITH NUTS
   - BRACKET WELDMENT - ASTM A36
   - EXTERNAL SLEEVE - FY = 50 KSI, FU = 62 KSI
   - CAP PLATE - ASTM A52 GRADE 50
   - BRACKET HARDWARE - (2) - 1" 8 BOLTS WITH NUTS
2. ALL WELDING TO BE IN ACCORDANCE WITH AWS D1.1 LATEST ISSUE AND 570 XX MIN. ELECTRODE.
3. HELIX PLATES HAVE A NOMINAL 2" PITCH WITH LEADING AND TRAILING EDGES BEING NO MORE THAN 1/2" OUT OF PARALLEL.
4. LEADS, EXTENSIONS, COUPLERS, HELIX PLATES AND BRACKETS SHALL BE HOT-DIP GALVANIZED (HG) IN ACCORDANCE WITH ASTM A123.
5. SPIRAL COUPLING AND BRACKET HARDWARE SHALL BE ZINC COATED IN ACCORDANCE WITH ASTM A633.
6. HELICAL PILES SHALL BE OBTAINED FROM FOUNDATION SUPPORT WORKS, INC. OR APPROVED EQUAL.

Sheet No. 44

Attachment B

Centerville Trace Pond Structure Replacement

FONZETTI, SILVER ENGINEERING, INC.
Fire Protection Division
3300 Capital Circle W. Suite 119
Tallahassee, FL 32308
Telephone: (850) 884-4521 • Fax: (850) 224-0035
EON COUNTY DEPARTMENT OF PUBLIC WORKS
3300 Capital Circle W. Suite J
Tallahassee, FL 32308
Telephone: (850) 831-5500 • Fax: (850) 550-5051

Project Name: Centerville Trace Pond Structure Replacement
1. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, LOCAL CODES, STANDARDS, REGULATIONS AND LAW. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 6TH EDITION (2011) INCLUDING ALL CURRENT AMENDMENTS.

2. THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING OR SUPPORT.

3. DESIGN SUPERIMPOSED LOADS
   DECK LIVE LOAD ———— 100 PSF

4. DESIGN WIND LOADS
   GOVERNING CODE ———— ASCE 7-10
   ULTIMATE DESIGN WIND SPEED ———— 107 MPH
   NOMINAL DESIGN WIND SPEED ———— 0.5ASD — 82 MPH
   RISK CATEGORY ———— C
   EXPOSURE ———— MW
   COMPONENTS AND CLADDING ———— C
   INTERNAL PRESSURE COEFFICIENT ———— GCP +/-0.0 OPEN BUILDING
   MEAN ROOF WEIGHT ———— N/A
   WIND DIRECTIONAL FACTOR ———— K6 = 0.85
   TOPOGRAPHY FACTOR ———— 1.0

5. VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTencies. NO CHANGES OF INFORMATION SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER. DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDE OVERALL DIMENSIONAL PARAMETERS AND DESERIBE MATERIALS TO BE CONSTRUCTED. THE CONTRACTOR SHALL ADJUST DIMENSIONS AND DETAILS AS REQUIRED TO FIT EXISTING CONDITIONS. THE ENGINEER SHALL NOTIFY ANY OF PROPOSED MODIFICATIONS.

6. DETAILS LABELED "Typ" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTION REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.

7. CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.

8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS MARKED WITH +/- USE ONLY PRINTED DIMENSIONS.

9. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTION FROM THE STRUCTURAL ENGINEER OF RECORD.

10. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION WORKS AND METHODS, AND JOB SITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.

11. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL 3 SETS OF PLANS, CALCULATIONS, AND SPECIFICATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, FOR ANY PROPOSED CHANGES TO THE CONTRACT DOCUMENTS.

DIMENSIONAL LUMBER:

1. ALL DIMENSIONAL LUMBER SHALL BE SG5 AND GRADE STAMPED BY AN AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARDS COMMITTEE’S BOARD OF REVIEW AND MANUFACTURED IN ACCORDANCE WITH PS-20, LATEST REVISION.

2. FRAMING MATERIAL SHALL BE SOUTHERN YELLOW PINE, NO.1 OR BETTER, WITH A MAXIMUM MOISTURE CONTENT OF 19%.

3. ALL MATERIAL SHALL BE SOUTHERN PINE, COMPILING WITH THE STRESS VALUE TABLES LOCATED IN THE GENERAL NOTES.

4. WARES ARE NOT ACCEPTABLE IN EXPOSED MATERIAL.

5. "P" DENOTES PRESSURE TREATED. ALL PT LUMBER SHALL BE KILN DRIED AFTER TREATMENT (KDPT). 

6. ALL LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION STANDARD T1.

7. FIELD CUTS, HOLES, AND DAMAGE SHALL BE TREATED WITH A BRUSH APPLIED COPPER NAPHTHALENE OR APPROVED PRESERVATION SYSTEM AND APPLIED ACCORDING TO MANUFACTURER’S SPECIFICATIONS.

8. CONTRACTOR SHALL SUBMIT PRODUCT TREATMENT DATA SHEETS FOR APPROVAL BY LEON COUNTY PRIOR TO CONSTRUCTION.

9. CONTRACTOR SHALL ADOPT BY AMPA USE CATEGORY STANDARD U1. MATERIALS NOT PROPERLY TREATED FOR THEIR SPECIFIC USE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR’S EXPENSE.

10. ALL FASTENERS SHALL BE APPLIED PER TABLE 2304.10.1, FBC 2017 UNLESS OTHERWISE NOTED.

CONNECTORS:

1. ALL CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.

2. ALL CONNECTORS AND FASTENERS THAT ARE NOT STAINLESS STEEL (SS) SHALL BE NOT GALVANIZED FOR CORROSION PROTECTION. ZAMAK (18%-20% ZINC PLUS 0.7% COPPER) OR ZINC PLUS 0.4% COPPER OR ZINC PLUS 0.6% COPPER OR ZINC PLUS 0.8% COPPER OR ZINC PLUS 1% COPPER OR ZINC PLUS 1.2% COPPER OZING COATING WEIGHT OF 2.0 OZ. PER SQUARE FOOT OF SURFACE AREA PER ASM 622. CONNECTORS MAY REQUIRE SPECIAL FABRICATION FROM THE MANUFACTURER. NO ADDITIONAL CONTRACT TIME SHALL BE GRANTED TO OBTAIN THE REQUIRED CONNECTORS. CONTRACTOR SHALL SUPPLY ALL CONNECTORS INSPECTED BY THE ENGINEER PRIOR TO CONCRETE EMBRULDGE OR COVERING CONNECTORS WITH SUBSEQUENT WORK.

3. CONTRACTOR SHALL USE FASTENERS THAT ARE COMPATIBLE WITH THE CORROSION PROTECTION OF THE CONNECTOR, AND SHALL USE ALL FASTENERS REQUIRED TO OBTAIN MAXIMUM PUBLISHED CONNECTOR LOADS UNLESS OTHERWISE NOTED.

4. CONTRACTOR SHALL INSTALL ALL CONNECTORS IN ACCORDANCE WITH MANUFACTURER’S SPECIFICATIONS.

5. THREADED ROD WITH NUTS AND WASHERS OF THE SAME MATERIAL TYPE AND DIAMETER MAY BE SUBSTITUTED FOR THRU-BOLTS.

BOARDWALK FILES:

1. HELICAL PILE BEAM BRACKETS MAY REQUIRE SPECIAL FABRICATION. SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF FLORIDA SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION OR INSTALLATION. ALL COSTS FORPILE BRACKETS SHALL BE PAID FOR BY THE CONTRACTOR. NO ADDITIONAL CONTRACT TIME SHALL BE GRANTED TO OBTAIN THE REQUIRED BRACKETS.

2. ALL FASTENERS SHALL BE APPLIED BY SIMPSON STRONG TIE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.

3. ALL LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION STANDARD T1.

4. ALL CORROSION PROOFING SHALL BE APPLIED PER TABLE 2304.10.1, FBC 2017 UNLESS OTHERWISE NOTED.

5. ALL CORROSION PROOFING SHALL BE APPLIED PER TABLE 2304.10.1, FBC 2017 UNLESS OTHERWISE NOTED.

6. ALL CORROSION PROOFING SHALL BE APPLIED PER TABLE 2304.10.1, FBC 2017 UNLESS OTHERWISE NOTED.
2"x12 PT RAIL CAP (TYP.)
2"x12 PT RAIL (TYP.)
2"x12 WELDED WIRE MESH WITH BLACK PVC COATING (TYP.)
2"x16 PT VERTICAL @ EACH STANCHION
9/16 SS CARRIAGE BOLT (TYP.)
4"x6 PT STANCHION
9/16 SS CARRIAGE BOLT (TYP.)
(2) 2"x12 PT JOIST (TYP.)
(4) 5/8 SS THR BOLTS @ PILE CONNECTION (TYP.)
(1) 525" X 11.25" TRUS JOIST WELDED PARALLEL BEAM ATTACH TO BRACKET WITH (4) 5/8 SS THR BOLTS
HOLLANDER CO. ALUMINUM 1 1/2" O HANDRAIL OR APPROVED EQUAL WHERE REQUIRED

3'-0" x 6'-0" MIN.
WHERE REQUIRED OR APPROVED EQUAL HOLLED R COR. ALUMINUM BOLT (TYP.) "SS CARRIAGE 2"x12 PT DECK BOARDS (TYP.) 4"x6 PT STANCHION (TYP.)
2"x8 PT RAIL (TYP.)
2"x12 PT RAIL (TYP.)
2"x12 PT RAIL CAP (TYP.)
6'-0"
42" H.W.
24" W.H.

TYPICAL BOARDWALK SECTION WITH HELICAL PILES (N.T.S.)

3'x18 RIBBON CURB WITH 1 #4 BAR CONTINUOUS AND 3000 PSI CONCRETE MIX, PROVIDE 1/2" EXPANSION JOINT AT SHEET PILE CAP, CONSTRUCT FLUSH WITH FINISH GRADE AT BOARDWALK AND 1/2" OF BERM.

#4 BAR 2" MIN LAP AT CORNERS AND SPLICES

BEAM BUILD UP

1. 2"x12 BUILT-UP BEAMS AND JOISTS SMALL MAE MEMBERS FASTENED TOGETHER WITH (3) 10D STAINLESS STEEL RING SHANK NAILS @ EACH END AND @ 12" O.C.

2. 2"x6 BUILT-UP BEAMS AND JOISTS SMALL MAE MEMBERS FASTENED TOGETHER WITH (2) 10D STAINLESS STEEL RING SHANK NAILS @ EACH END AND @ 12" O.C.

2"x12 BUILT-UP MEMBER NAILING PATTERN (N.T.S.)

* NOTE:
2-PLY MEMBER SHOWN, 3-PLY AND 4-PLY MEMBERS SIMILAR.