

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: 10/24/2022

PERMIT #: LEM1800017  
PROJECT NAME: LEON COUNTY A.R.P. CROSS COUNTRY  
LOCATION: COURSE IMPROVEMENTS  
PERMITTEE: 7550 Apachee Pkwy

DATE ISSUED: 10/24/2019  
PARCEL TAX ID: 3204208510000

FEE INFORMATION	
Env Landscaping Permit Fee	804.00
Stormwater Standard Form	2,700.00
TOTAL FEES:	3,504.00
TOTAL PAYMENTS	3,504.00
BALANCE:	0.00



*John P. Kravynak*  
John P. Kravynak, Director Environmental Compliance Division

John P. Kravynak, Director  
Environmental Services Division

ACCEPTANCE OF THIS PERMIT ACKNOWLEDGES PREMISES 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**

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**APALACHEE REGIONAL PARK  
CROSS COUNTRY COURSE  
ENVIRONMENTAL MANAGEMENT PERMIT  
LEM18-00017**

**A Pre-Construction Conference with the County Environmental Inspector is required.**  
**(Contact Mr. Kevin Hough at 850-606-1310 or 850-544-0825 to schedule.)**

This environmental management permit authorizes construction of infrastructure (i.e. stormwater management system, gravel drives, sidewalks, etc.) associated with the proposed development on parcel ID. No.: 32-04-20-851-000 0 in Leon County, consistent with the attachments and exhibits identified below.

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

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 10/24/2019**

\_\_\_\_\_  
John Kraynak, P.E., Director  
Environmental Services  
MRW

\_\_\_\_\_  
Date

**ATTACHMENT "A"**  
**PERMIT CONDITIONS:**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY COURSE**

**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).**
6. *Permit Expiration.* This Environmental Management Permit expires 36 months after issuance. **Reference Section 10-4.214(1)(a).**
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. stormwater management system, gravel drives, sidewalks, etc.) associated with the proposed development on parcel ID. No.: 32-04-20-851-000 0 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. stormwater management system, gravel drives, sidewalks, etc.) associated with the proposed development on parcel ID. No.: 32-04-20-851-000 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 Mr. Kevin Hough who may be contacted at 850-606-1310 or 850-544-0825.
3. Development activities involving the proposed structures, including adjacent grading, shall not commence until a building permit has been secured for such structure.
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. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time with the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850) 245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.
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. Stormwater Operating Permit Application
  - b. Record Drawings
    - i. Record drawings shall mean a complete set of permitted drawings signed and sealed by a qualified professional with final constructed grades, culvert diameters, stormwater facilities dimensions, planted landscape materials, field changes, and marked with "record drawing" on each sheet.
    - ii. The qualified professional shall be responsible for the project's conformance to the permitted plans.
  - c. Compliance Certification signed/sealed by a Florida licensed Professional Engineer

**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.**

# APALACHEE REGIONAL PARK

## Cross Country Venue Infrastructure Improvements

### LEON COUNTY, FLORIDA

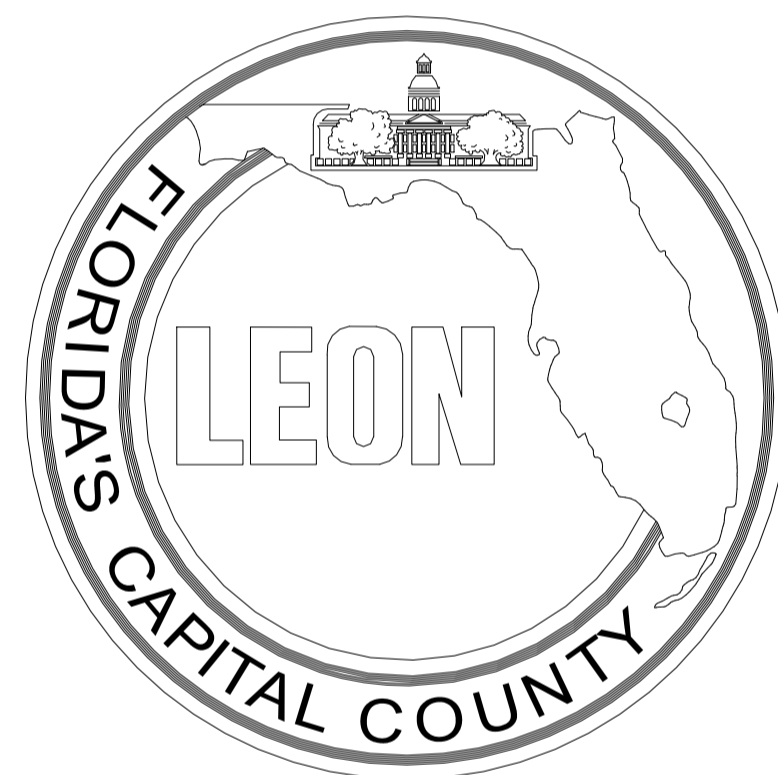
# ENVIRONMENTAL MANAGEMENT PERMIT

## PROJECT I.D. # LEM1800017

**EXHIBIT A**

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	PROJECT LAYOUT
4	EXISTING CONDITIONS
5	EXISTING CONDITIONS
6	EXISTING CONDITIONS
7	DEMOLITION AND EROSION CONTROL PLAN PHASE 1
8	EROSION CONTROL PLAN PHASE 2
9	SITE PLAN
10	GRADING AND DRAINAGE PLAN
11	UTILITY PLAN
12	UTILITY PLAN
13	UTILITY PLAN AND PROFILE
14	UTILITY PLAN AND PROFILE
15	SCENIC OVERLOOK NO. 2 THROUGH 5 PLAN AND PROFILE
16	CONSTRUCTION DETAILS
17	DRAINAGE PLAN AND PROFILE
18	STAGE PLAN AND PROFILES
19	POND DETAILS
20	UTILITY DETAILS
21	UTILITY DETAILS
22	UTILITY DETAILS
23	UTILITY DETAILS
24	EROSION CONTROL DETAILS
HS01	HARDSCAPE SITE PLAN
HS02	HARDSCAPE KEY
HS03	HARDSCAPE DETAILS
LS01	PLANTING PLAN BUFFER
LS02	PLANTING PLAN
LS03	PLANTING NOTES AND SCHEDULE
LS04	PLANTING DETAILS
LS05	LANDSCAPE MAINTENANCE PLAN
CS0.1	OVERLOOK STRUCTURAL NOTES
CS1.1	OVERLOOK STRUCTURAL DETAILS



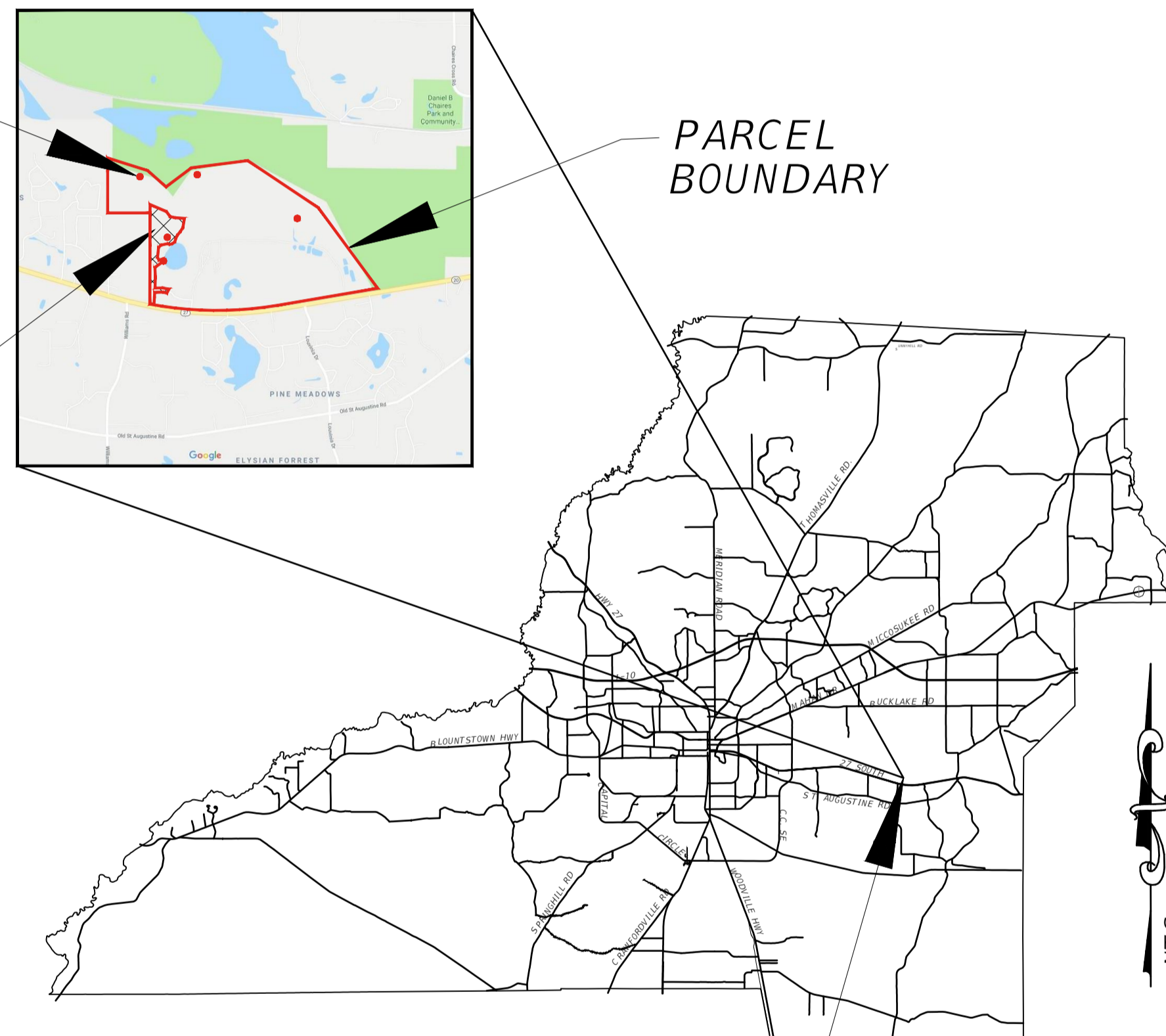
**COMMISSIONERS:**  
**BILL PROCTOR**  
 CHAIRMAN  
**WILLIAM C. PROCTOR, JR.**  
 DISTRICT 1  
**JIMBO JACKSON, VICE CHAIRMAN**  
 DISTRICT 2  
**RICK MINOR**  
 DISTRICT 3  
**BRYAN DESLOGE**  
 DISTRICT 4  
**KRISTIN DOZIER**  
 DISTRICT 5  
**MARY-ANN LINDLEY**  
 AT-LARGE  
**NICK MADDOX**  
 AT-LARGE

OVERLOOK LOCATIONS

PROJECT LOCATION

PARCEL BOUNDARY

VINCENT S. LONG  
 COUNTY ADMINISTRATOR  
 HERBERT W. A. THIELE  
 COUNTY ATTORNEY  
 BRENT PELL  
 PUBLIC WORKS DIRECTOR



PROJECT LOCATION

DEVELOPMENT INFORMATION

OWNER:



**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

LEON COUNTY PARKS PROJECT MANAGER: LEIGH DAVIS,  
 LEON COUNTY PUBLIC WORKS PROJECT MANAGER: FELTON ARD, P.E.

Civil Engineer:

DRMP, INC.  
 2882 Remington Green Circle  
 Tallahassee, Florida 32308  
 PHONE: (850) 562-9600  
 FAX: (850) 575-5544  
 e-mail: BLENNON@DRMP.COM  
 FL CA 2648

Surveyor:

DRMP, INC.  
 1096 Highway 90  
 CHIPLEY, FL 32428  
 PHONE: (850) 638-1086

**APPROVED**

PERMIT NO. LEM1800017  
 DATE 10/24/2019



Approved By: Nawfal Ezzagaghi 10/24/2019

**PROJECT SUMMARY:**

THIS PROJECT IS FOR THE CONSTRUCTION OF IMPROVEMENTS AT THE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INCLUDING ASSOCIATED AMENITIES AND INFRASTRUCTURE IMPROVEMENTS.

PARCEL ID#: 3204208510000  
 TOTAL PARCEL ACREAGE: 596.68  
 PROJECT AREA: 6.27 ACRES  
 WETLANDS, FLOOD PLAINS AND PROTECTED TREES EXIST ON THE SITE.

ISSUED:  
 10/18/19

**OCTOBER 18, 2019**

NOTE: ALL CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018-19 EDITION, DESIGN STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE SHOWN OR NOTED IN THESE PLANS



DRMP JOB NUMBER 15-0513.004

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

**Benjamin R Lennon**  
 2019.10.18  
 11:48:46-04'00"

ON THE DATE ADJACENT TO THE SEAL, PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

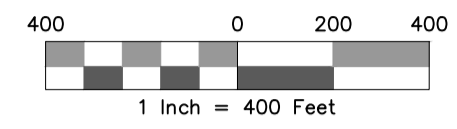
DRMP, INC.  
 2882 Remington Green Circle  
 Tallahassee, FL 32308  
 Phone: (850) 562-9600 Fax: (850) 575-5544  
 Certificate of Authorization No. 2648  
 BENJAMIN R. LENNON, P.E.  
 LICENSE NO. 78674

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.  
 SHEETS 1 THROUGH 24.

1







**LEGEND**

	PROPERTY BOUNDARY
	LIMITS OF CONSTRUCTION

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	MHB

DRAWN BY	JMM

CHECKED BY	ERL

APPROVED BY	BRL

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

**PROJECT LAYOUT**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY VENUE**  
**INFRASTRUCTURE IMPROVEMENTS**

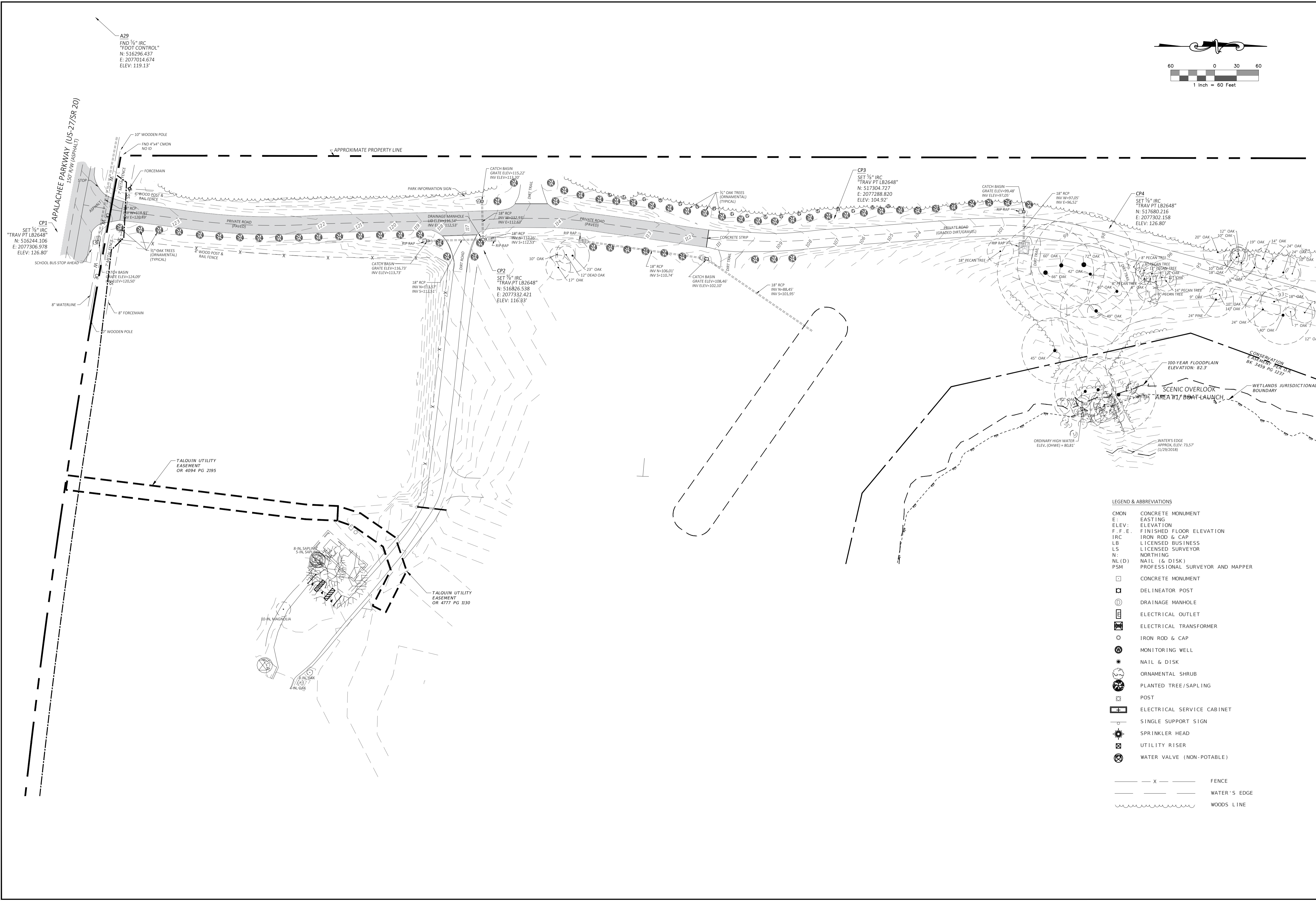
**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
 Certificate of Authorization No. 2648  
 2882 Remington Green Circle  
 Tallahassee, Florida 32308  
 Phone: 850.562.9600 WWW.DRMP.COM

*This item has been digitally signed and sealed by Benjamin R. Lennon, PE on the date indicated in the digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.*

BENJAMIN LENNON, P.E. Florida Engineer #78674
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 10/18/2019
DRAWING: 3

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DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE



- LEGEND & ABBREVIATIONS**
- CMON CONCRETE MONUMENT
  - E EASTING
  - ELEV. ELEVATION
  - F.F.E. FINISHED FLOOR ELEVATION
  - IRC IRON ROD & CAP
  - LB LICENSED BUSINESS
  - LS LICENSED SURVEYOR
  - N NORTHING
  - NL(D) NAIL (& DISK)
  - PSM PROFESSIONAL SURVEYOR AND MAPPER
  - CONCRETE MONUMENT
  - ⊠ DELINEATOR POST
  - ⊙ DRAINAGE MANHOLE
  - ⊞ ELECTRICAL OUTLET
  - ⊡ ELECTRICAL TRANSFORMER
  - IRON ROD & CAP
  - ⊙ MONITORING WELL
  - ⊙ NAIL & DISK
  - ⊙ ORNAMENTAL SHRUB
  - ⊙ PLANTED TREE/SAPLING
  - ⊙ POST
  - ⊞ ELECTRICAL SERVICE CABINET
  - ⊙ SINGLE SUPPORT SIGN
  - ⊙ SPRINKLER HEAD
  - ⊙ UTILITY RISER
  - ⊙ WATER VALVE (NON-POTABLE)
  - X — FENCE
  - WATER'S EDGE
  - WOODS LINE

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: MHB  
 DRAWN BY: JMM  
 CHECKED BY: BRL  
 APPROVED BY: BRL

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

**EXISTING CONDITIONS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
 Certificate of Authorization No. 2648  
 2892 Remington Green Circle  
 Tallahassee, Florida 32308  
 Phone: 850.562.9600 WWW.DRMP.COM

JEFFREY R. LANCE  
 Florida No: LS 5657

PROJECT NO.: 15-0513.004

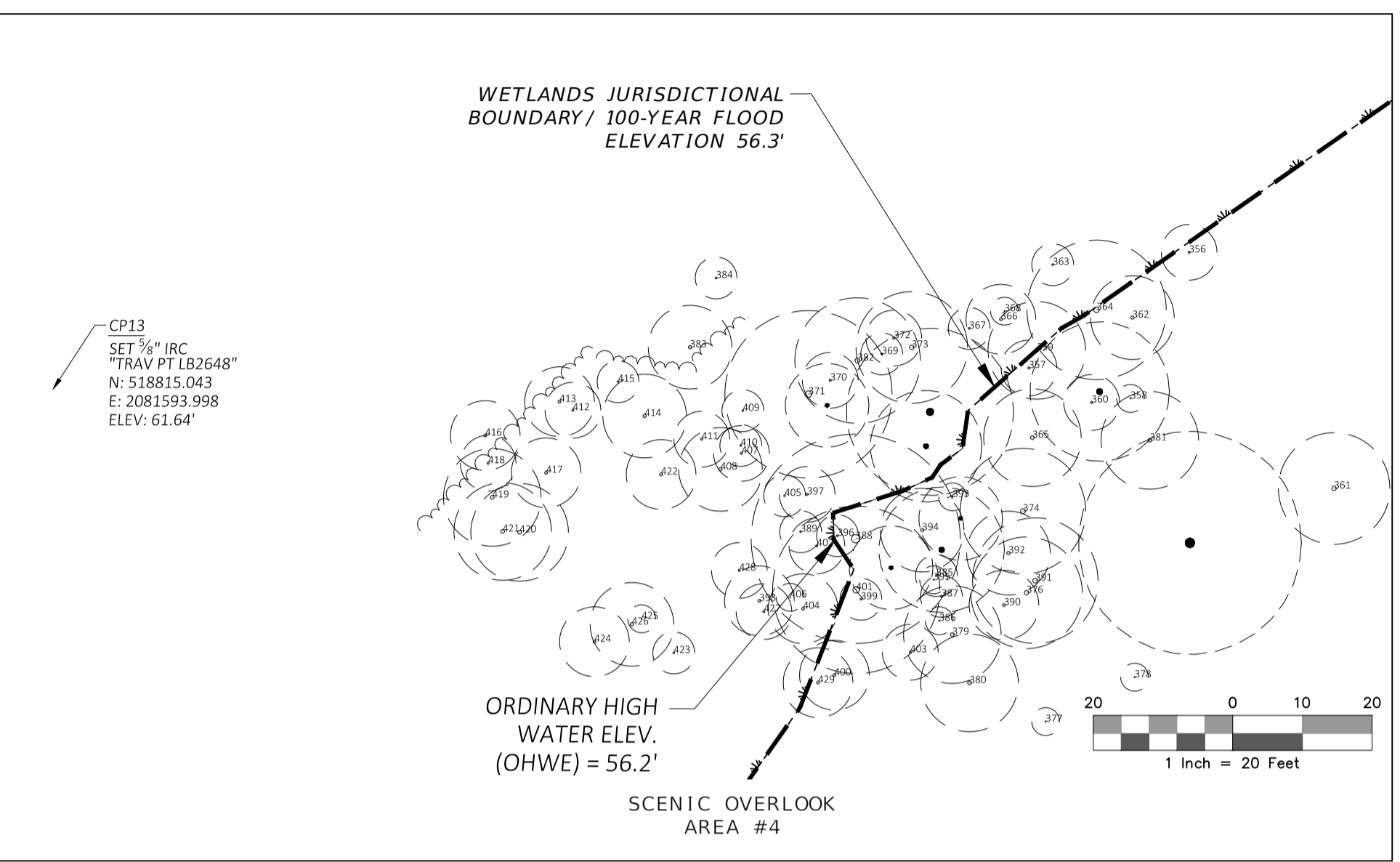
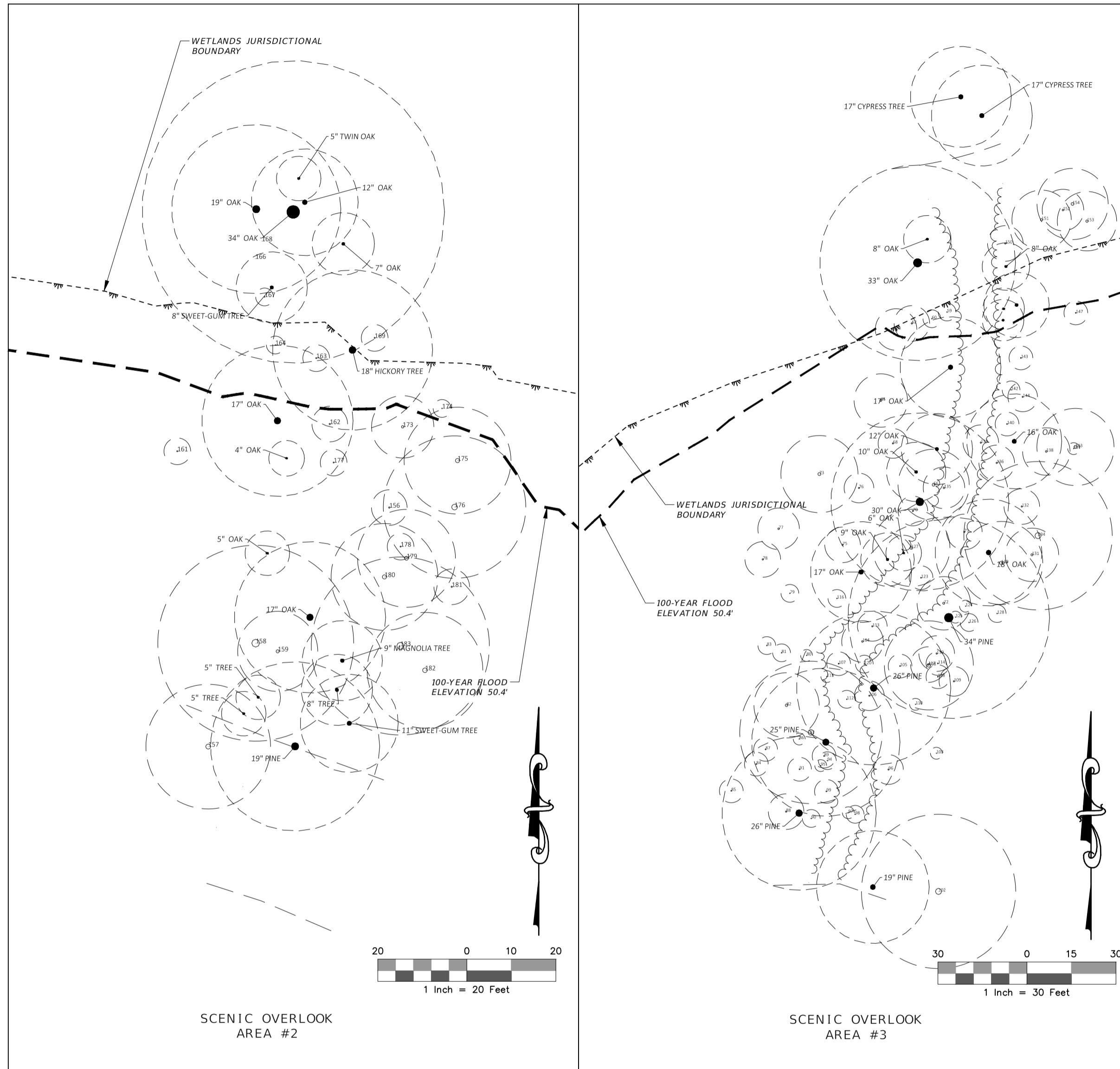
SCALE: AS SHOWN

DATE: 10/18/2019

DRAWING: 4

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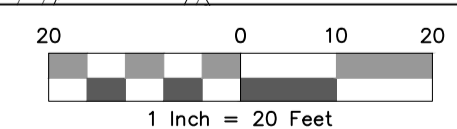
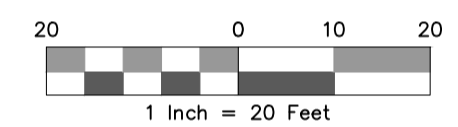
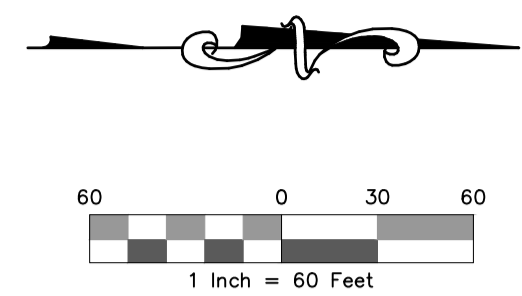
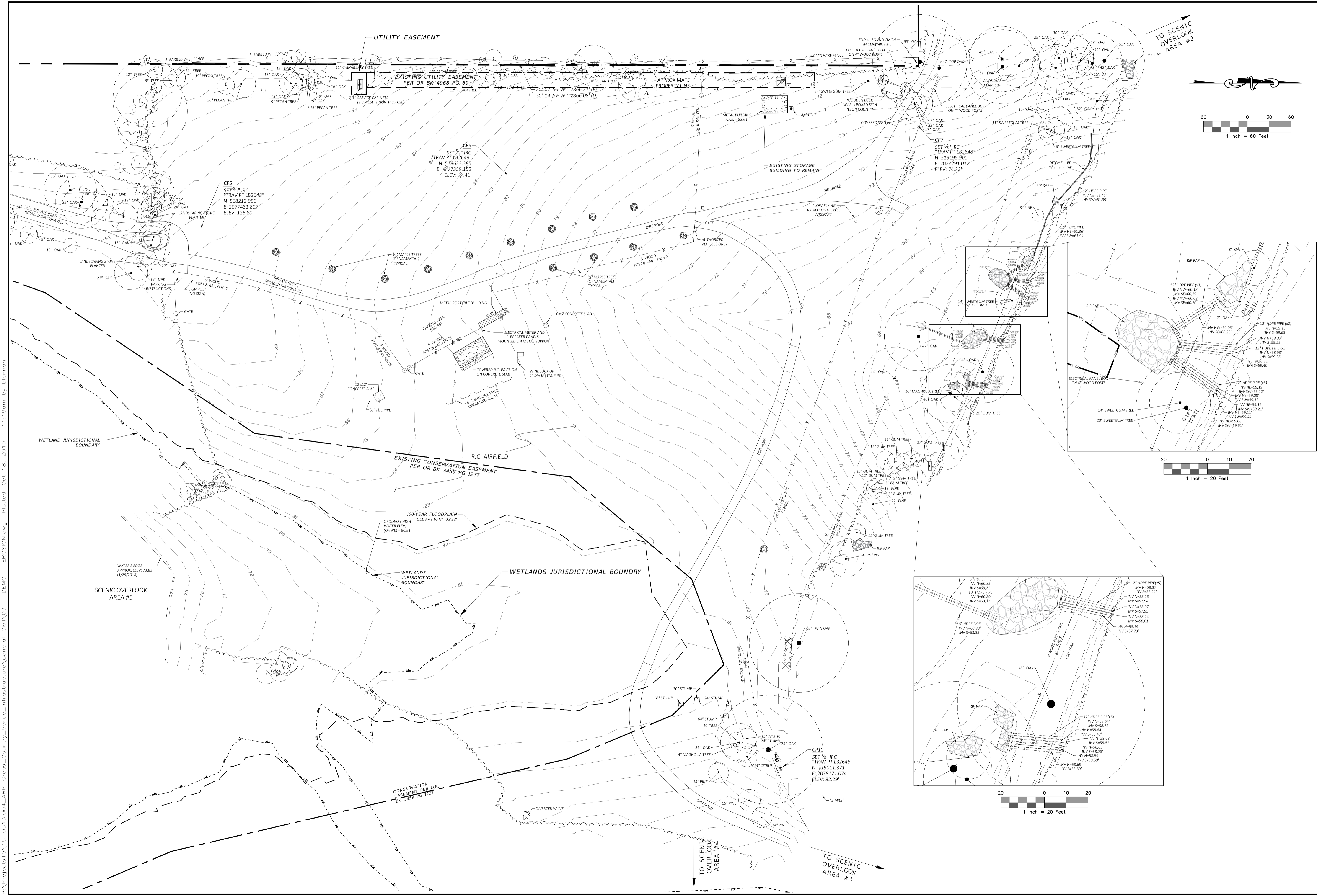
**SURVEYOR'S NOTES**

- 1). This Topographic Survey was completed for the purpose of facilitating the design and engineering of improvements to the project site. **THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED UPON AS SUCH.** Any property lines shown are for illustration only.
- 2). Coordinates shown are referenced to the North American Datum of 1983/Adjustment of 2011 (NAD83/11), based upon a GPS survey from FPRN stations Tallahassee (TALH) and Bradfordville (FJLJ). Coordinates are projected in the Florida State Plane Coordinate System, North Zone, 0903, and displayed in U.S. Survey Feet.
- 3). Bearings shown are referenced to the grid bearing calculated between established site control points CP1 and CP2, being North 02° 30' 05" East.
- 4). Elevations shown are referenced to the North American Vertical Datum of 1988 (NAVD88), displayed in U.S. Survey Feet, and based on the following published benchmarks:  
 HERITAGE (BE2016) - A brass NGS Horizontal Control disk set in the top of a 1" diameter concrete post, stamped "HERITAGE 1978", located on the south side of Apalachee Parkway (U.S. 27), 5.14 miles east of the intersection of Apalachee Parkway and U.S. 319. Published Elevation = 121.59'  
 LEON (BE2017) - A brass NGS Triangulation Station disk set in concrete, stamped "LEON 1978", located on the south side of Apalachee Parkway (U.S. 27), 4.50 miles east of the intersection of Apalachee Parkway and U.S. 319. Published Elevation = 128.78'  
 LEO 19 FLDNR (BE2018) - A FLDEP survey disk set in concrete, stamped "LEO 19 CLB 1979", located on the south side of Apalachee Parkway (U.S. 27), 4.21 miles east of the intersection of Apalachee Parkway and U.S. 319. Published Elevation = 94.43'
- 5). Date of last field survey: January 29, 2018.
- 6). No underground installations or improvements, including, but not limited to, buried cables, sub-surface utilities, foundations/footers, or burial sites were located, except as shown.

**LEGEND & ABBREVIATIONS**

CMON	CONCRETE MONUMENT
E	EASTING
ELEV.	ELEVATION
F.F.E.	FINISHED FLOOR ELEVATION
IRC	IRON ROD & CAP
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
N	NORTHING
NL(D)	NAIL (& DISK)
PSM	PROFESSIONAL SURVEYOR AND MAPPER
□	CONCRETE MONUMENT
○	DELINATOR POST
⊕	DRAINAGE MANHOLE
⊞	ELECTRICAL OUTLET
⊞	ELECTRICAL TRANSFORMER
○	IRON ROD & CAP
⊕	MONITORING WELL
●	NAIL & DISK
⊙	ORNAMENTAL SHRUB
⊙	PLANTED TREE/SAPLING
⊞	POST
⊞	ELECTRICAL SERVICE CABINET
○	SINGLE SUPPORT SIGN
⊙	SPRINKLER HEAD
⊞	UTILITY RISER
⊙	WATER VALVE (NON-POTABLE)
— X —	FENCE
— — —	WATER'S EDGE
~~~~~	WOODS LINE

<p><b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b></p> <p>2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501</p>	<p><b>EXISTING CONDITIONS</b></p> <p><b>APALACHEE REGIONAL PARK</b></p> <p><b>CROSS COUNTRY VENUE</b></p> <p><b>INFRASTRUCTURE IMPROVEMENTS</b></p>	<p><b>DRMP</b></p> <p>ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS</p> <p>Certificate of Authorization No. 2648 2882 Remington Green Circle Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM</p>	<p>DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE</p>
<p>PROJECT NO.:</p> <p><b>15-0513.004</b></p>	<p>SCALE:</p> <p><b>AS SHOWN</b></p>	<p>DATE:</p> <p><b>10/18/2019</b></p>	<p>DRAWING:</p> <p><b>5</b></p>
<p>DESIGNED BY:</p> <p>MHB</p>	<p>DRAWN BY:</p> <p>JMM</p>	<p>CHECKED BY:</p> <p>BRL</p>	<p>APPROVED BY:</p> <p>BRL</p>
<p>NO.:</p>	<p>DATE:</p>	<p>DESCRIPTION:</p>	<p>BY:</p>



NO.	DATE	DESCRIPTION	BY

DESIGNED BY	MHB

DRAWN BY	JMM

CHECKED BY	BRL

APPROVED BY	BRL

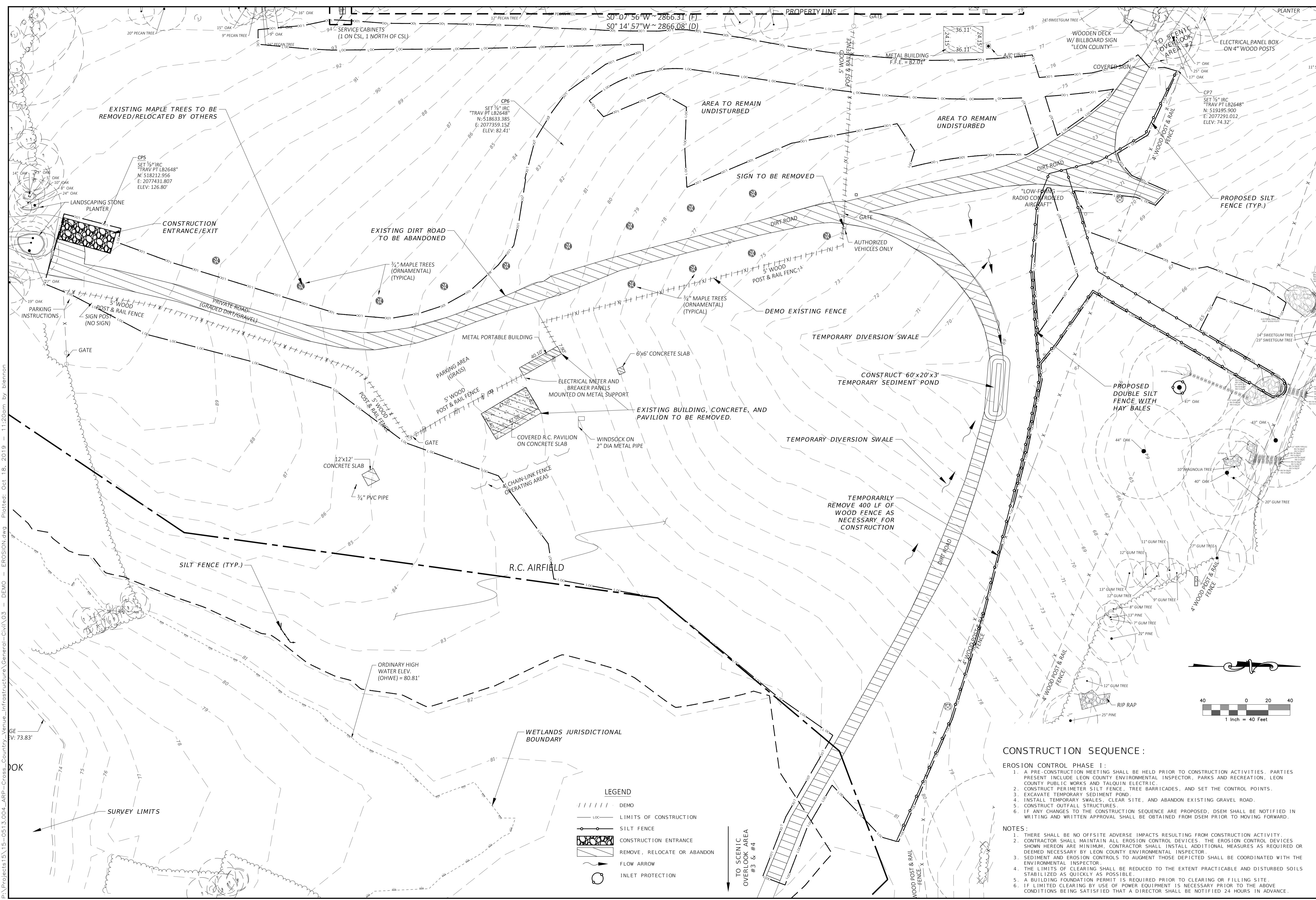
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**EXISTING CONDITIONS APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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JEFFREY R. LANCE  
 Florida No: LS 5657  
 PROJECT NO.:  
**15-0513.004**  
 SCALE:  
**AS SHOWN**  
 DATE:  
**10/18/2019**  
 DRAWING:  
**6**

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**CONSTRUCTION SEQUENCE :**

- EROSION CONTROL PHASE I :**
1. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO CONSTRUCTION ACTIVITIES. PARTIES PRESENT INCLUDE LEON COUNTY ENVIRONMENTAL INSPECTOR, PARKS AND RECREATION, LEON COUNTY PUBLIC WORKS AND TALQUIN ELECTRIC.
  2. CONSTRUCT PERIMETER SILT FENCE, TREE BARRICADES, AND SET THE CONTROL POINTS.
  3. EXCAVATE TEMPORARY SEDIMENT POND.
  4. INSTALL TEMPORARY SWALES, CLEAR SITE, AND ABANDON EXISTING GRAVEL ROAD.
  5. CONSTRUCT OUTFALL STRUCTURES.
  6. IF ANY CHANGES TO THE CONSTRUCTION SEQUENCE ARE PROPOSED, DSEM SHALL BE NOTIFIED IN WRITING AND WRITTEN APPROVAL SHALL BE OBTAINED FROM DSEM PRIOR TO MOVING FORWARD.
- NOTES :**
1. THERE SHALL BE NO OFFSITE ADVERSE IMPACTS RESULTING FROM CONSTRUCTION ACTIVITY.
  2. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES. THE EROSION CONTROL DEVICES SHOWN HEREON ARE MINIMUM. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS REQUIRED OR DEEMED NECESSARY BY LEON COUNTY ENVIRONMENTAL INSPECTOR.
  3. SEDIMENT AND EROSION CONTROLS TO AUGMENT THOSE DEPICTED SHALL BE COORDINATED WITH THE ENVIRONMENTAL INSPECTOR.
  4. THE LIMITS OF CLEARING SHALL BE REDUCED TO THE EXTENT PRACTICABLE AND DISTURBED SOILS STABILIZED AS QUICKLY AS POSSIBLE.
  5. A BUILDING FOUNDATION PERMIT IS REQUIRED PRIOR TO CLEARING OR FILLING SITE.
  6. IF LIMITED CLEARING BY USE OF POWER EQUIPMENT IS NECESSARY PRIOR TO THE ABOVE CONDITIONS BEING SATISFIED THAT A DIRECTOR SHALL BE NOTIFIED 24 HOURS IN ADVANCE.

NO.	DATE	DESCRIPTION	BY
DESIGNED BY	MHB		
DRAWN BY	JMM		
CHECKED BY	BRL		
APPROVED BY	BRL		

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**

**DEMOLITION AND EROSION CONTROL PLAN - PHASE 1**

**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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TALLAHASSEE, FL 32308  
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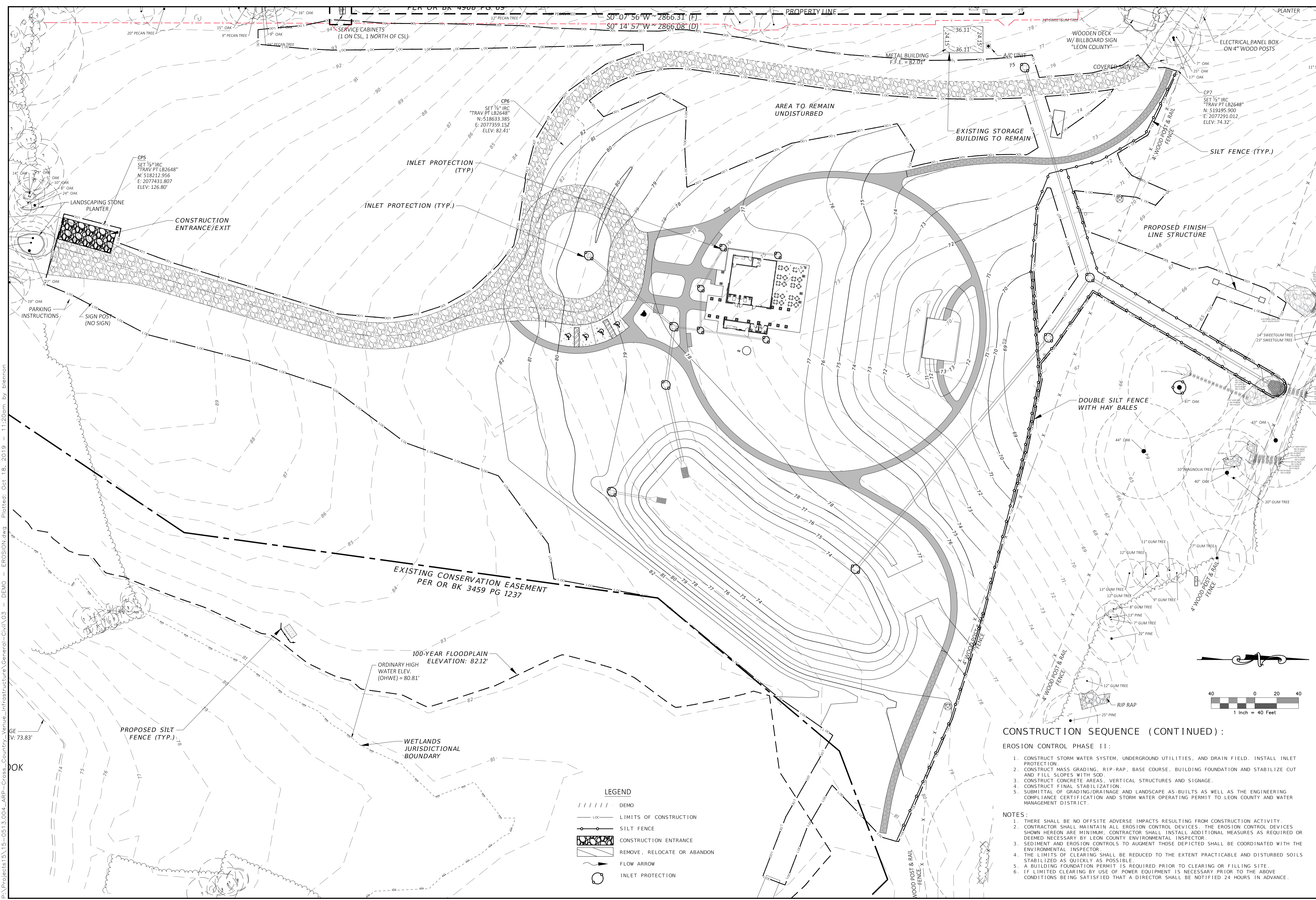
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BENJAMIN LENNON, P.E.  
Florida Engineer # 78674  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 10/18/2019  
DRAWING: 7

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**LEGEND**

	DEMO
	LIMITS OF CONSTRUCTION
	SILT FENCE
	CONSTRUCTION ENTRANCE
	REMOVE, RELOCATE OR ABANDON
	FLOW ARROW
	INLET PROTECTION

**CONSTRUCTION SEQUENCE (CONTINUED):**

**EROSION CONTROL PHASE II:**

1. CONSTRUCT STORM WATER SYSTEM, UNDERGROUND UTILITIES, AND DRAIN FIELD. INSTALL INLET PROTECTION.
2. CONSTRUCT MASS GRADING, RIP-RAP, BASE COURSE, BUILDING FOUNDATION AND STABILIZE CUT AND FILL SLOPES WITH SO2.
3. CONSTRUCT CONCRETE AREAS, VERTICAL STRUCTURES AND SIGNAGE.
4. CONSTRUCT FINAL STABILIZATION.
5. SUBMITTAL OF GRADING/DRAINAGE AND LANDSCAPE AS-BUILTS AS WELL AS THE ENGINEERING COMPLIANCE CERTIFICATION AND STORM WATER OPERATING PERMIT TO LEON COUNTY AND WATER MANAGEMENT DISTRICT.

**NOTES:**

1. THERE SHALL BE NO OFFSITE ADVERSE IMPACTS RESULTING FROM CONSTRUCTION ACTIVITY.
2. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES. THE EROSION CONTROL DEVICES SHOWN HEREON ARE MINIMUM. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS REQUIRED OR DEEMED NECESSARY BY LEON COUNTY ENVIRONMENTAL INSPECTOR.
3. SEDIMENT AND EROSION CONTROLS TO AUGMENT THOSE DEPICTED SHALL BE COORDINATED WITH THE ENVIRONMENTAL INSPECTOR.
4. THE LIMITS OF CLEARING SHALL BE REDUCED TO THE EXTENT PRACTICABLE AND DISTURBED SOILS STABILIZED AS QUICKLY AS POSSIBLE.
5. A BUILDING FOUNDATION PERMIT IS REQUIRED PRIOR TO CLEARING OR FILLING SITE.
6. LIMITED CLEARING BY USE OF POWER EQUIPMENT IS NECESSARY PRIOR TO THE ABOVE CONDITIONS BEING SATISFIED THAT A DIRECTOR SHALL BE NOTIFIED 24 HOURS IN ADVANCE.

NO.	DATE	DESCRIPTION

DESIGNED BY	MHB
DRAWN BY	JMM
CHECKED BY	BRL
APPROVED BY	BRL

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**

**EROSION CONTROL PLAN - PHASE 2**

**APALACHEE REGIONAL PARK**

**CROSS COUNTRY VENUE**

**INFRASTRUCTURE IMPROVEMENTS**

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BENJAMIN LENNON, P.E.  
Florida Engineer #78674

PROJECT NO.: **15-0513.004**

SCALE: **AS SHOWN**

DATE: **10/18/2019**

DRAWING: **8**

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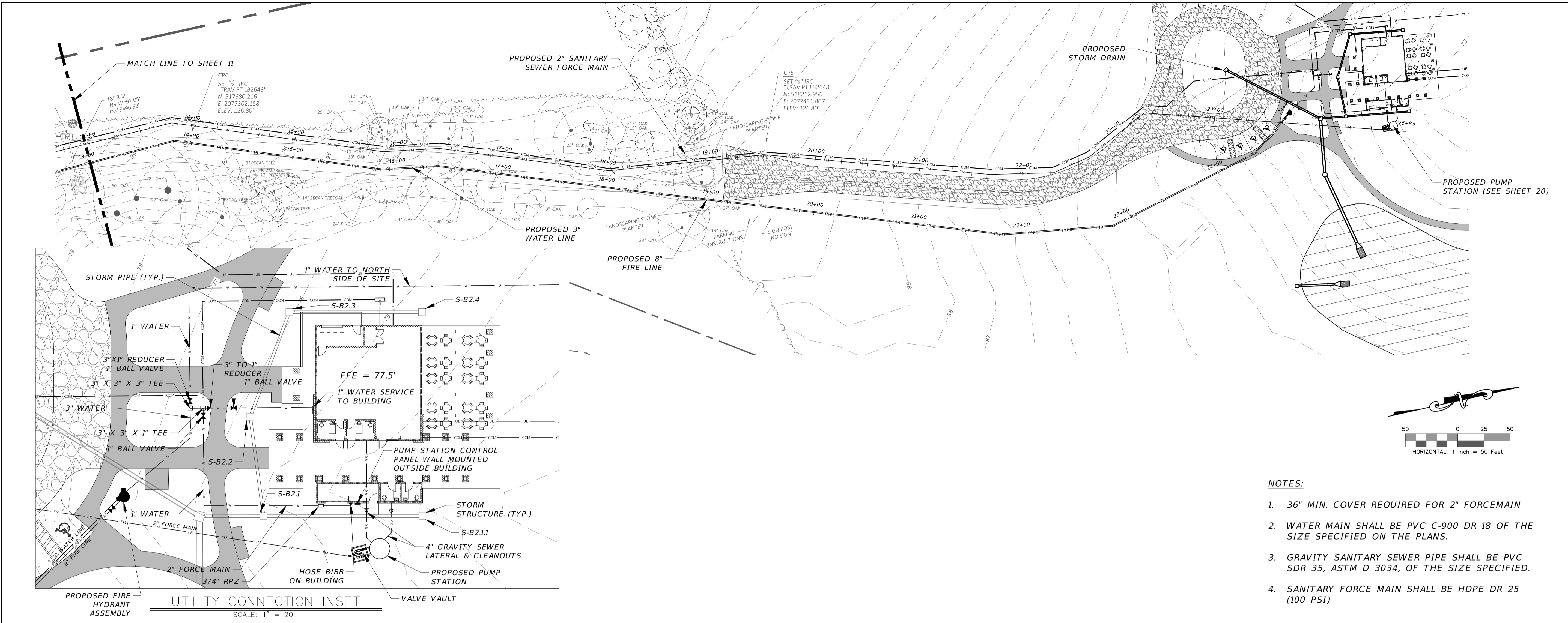




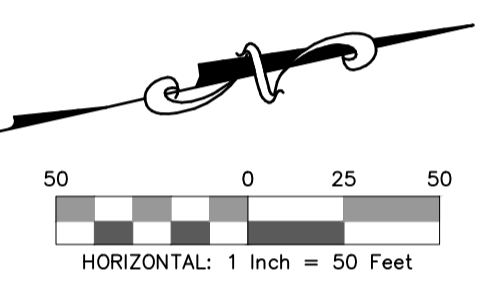
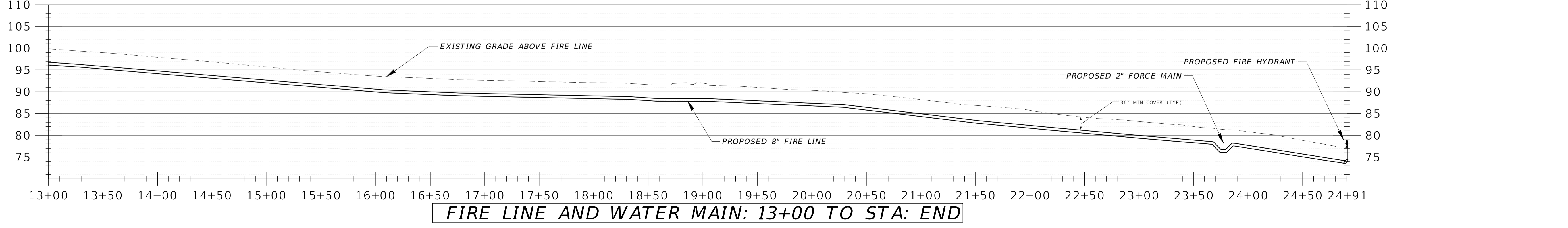
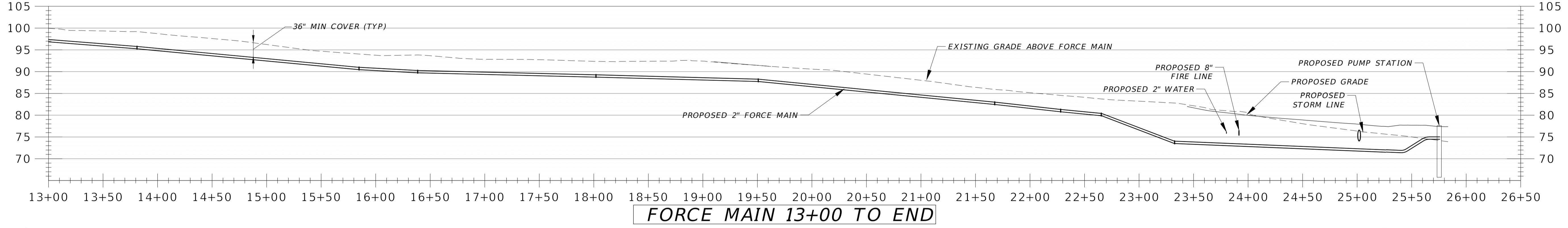








- NOTES:**
- 36" MIN. COVER REQUIRED FOR 2" FORCEMAIN
  - WATER MAIN SHALL BE PVC C-900 DR 18 OF THE SIZE SPECIFIED ON THE PLANS.
  - GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR 35, ASTM D 3034, OF THE SIZE SPECIFIED.
  - SANITARY FORCE MAIN SHALL BE HDPE DR 25 (100 PSI)



NO.	DATE	DESCRIPTION	BY

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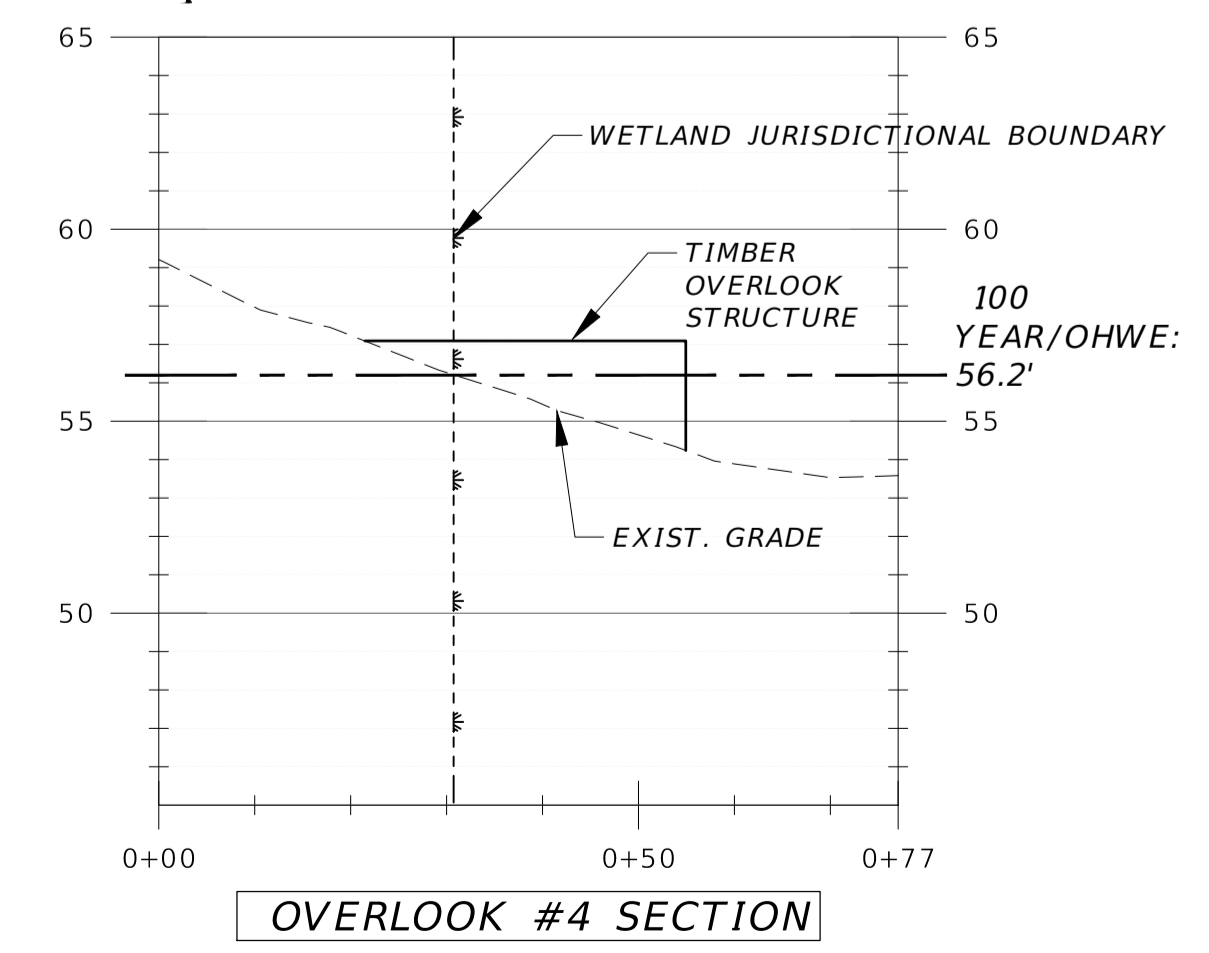
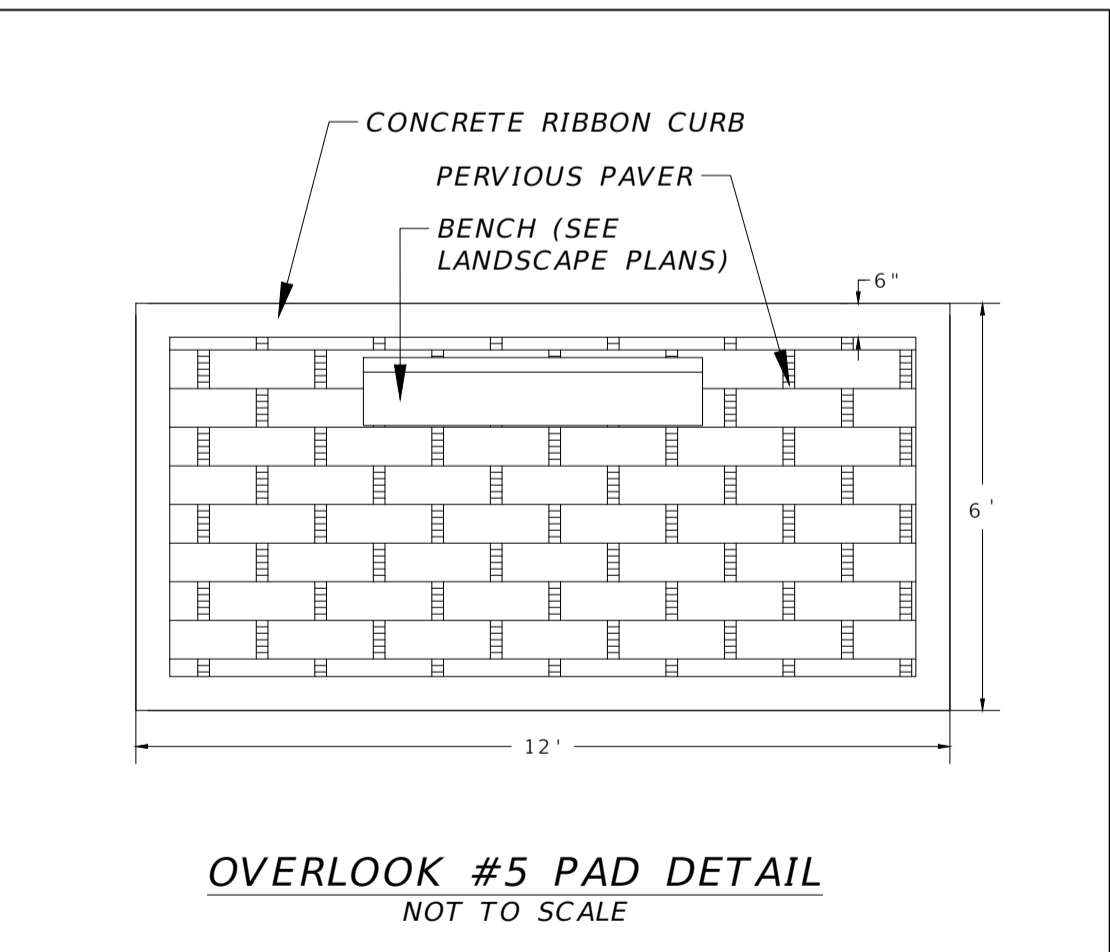
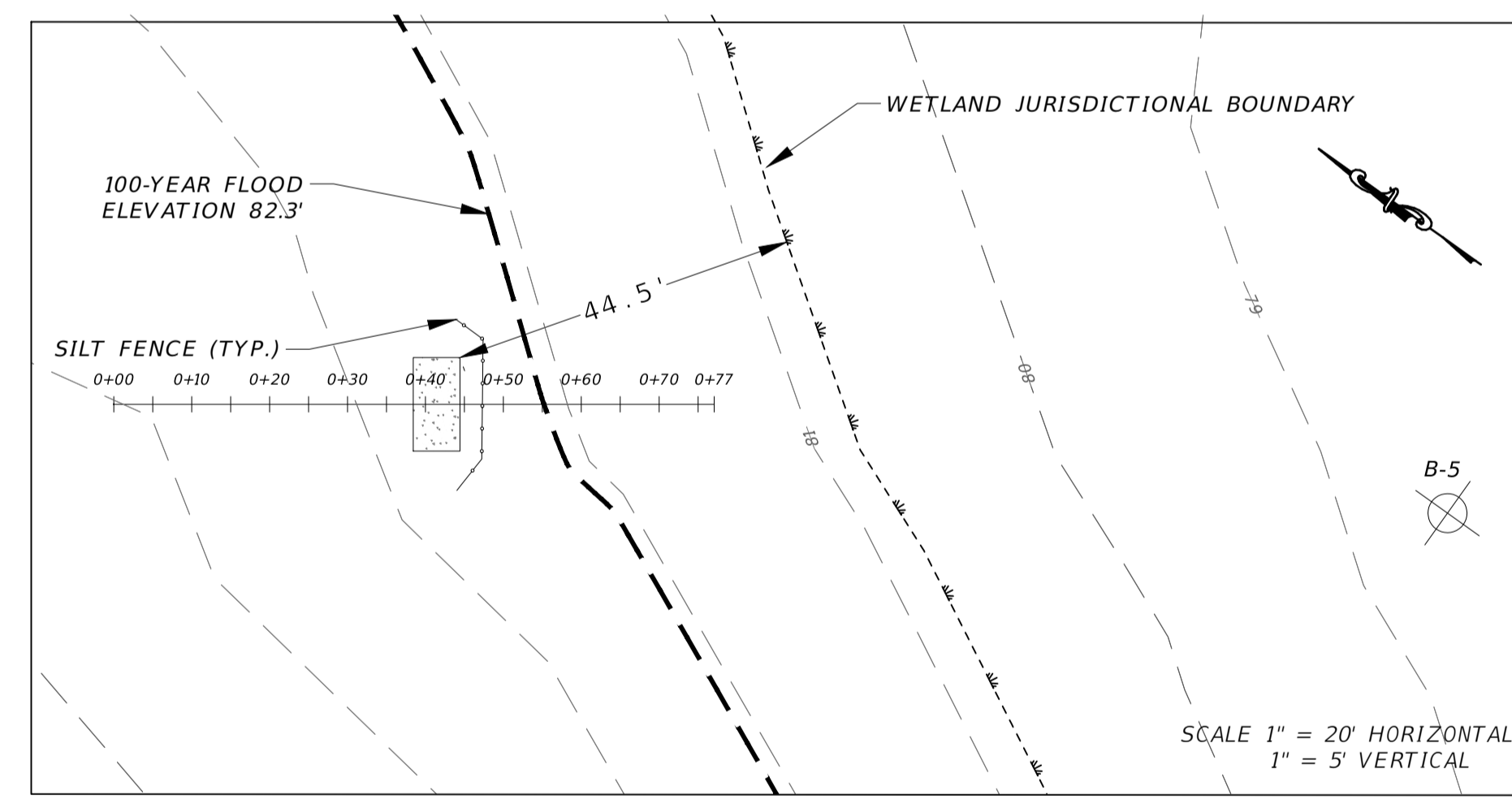
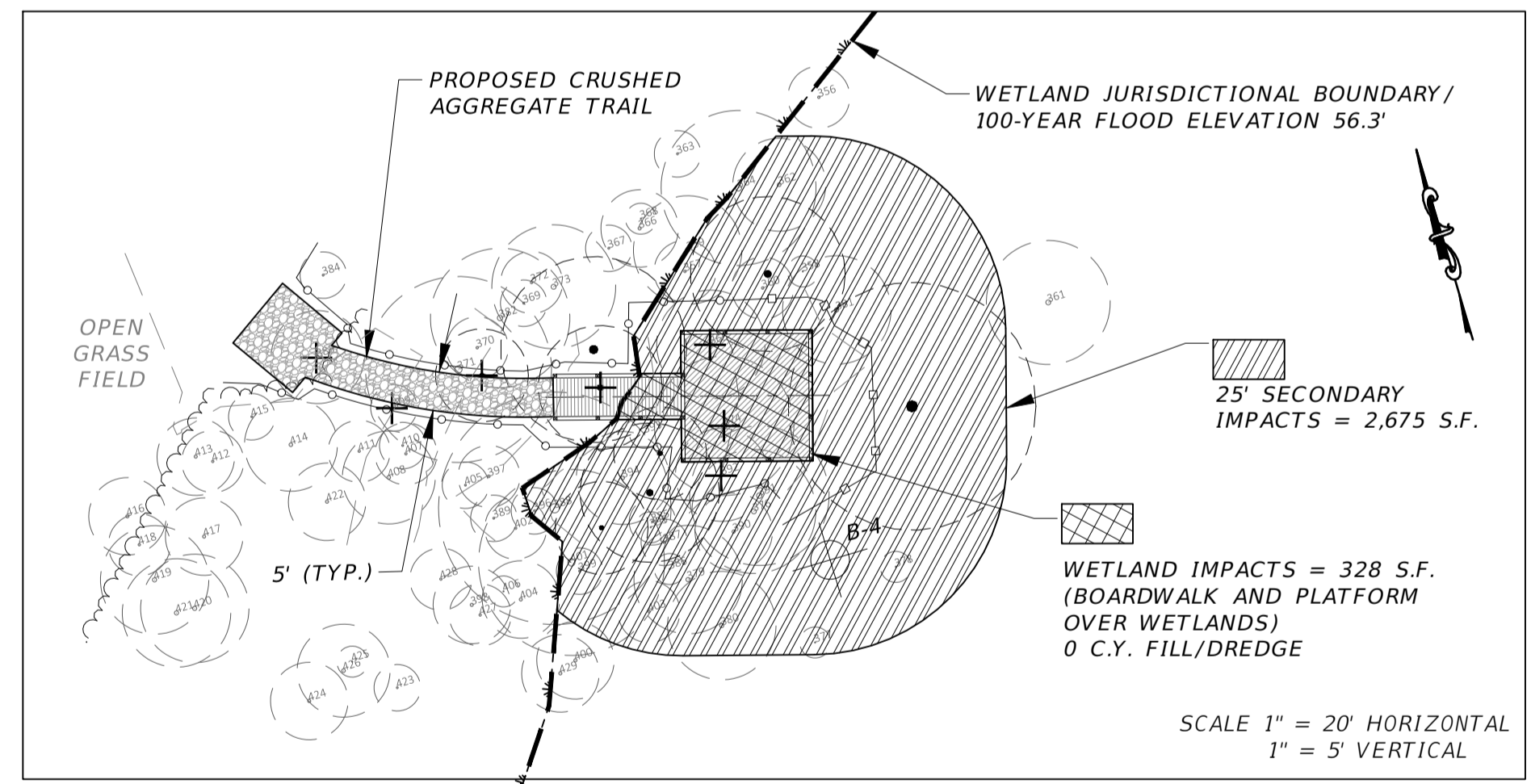
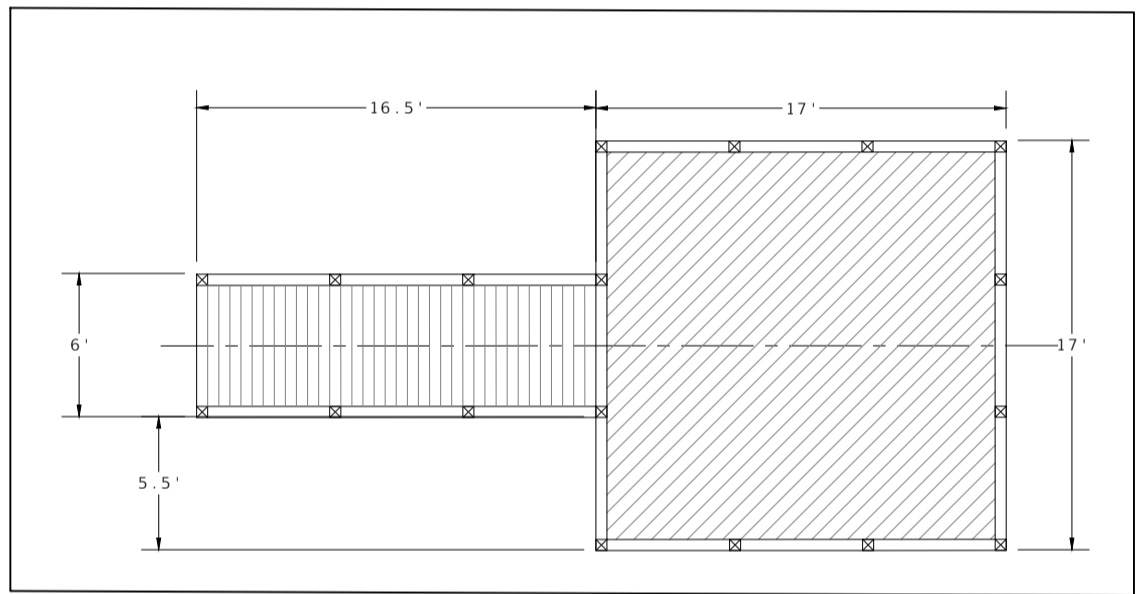
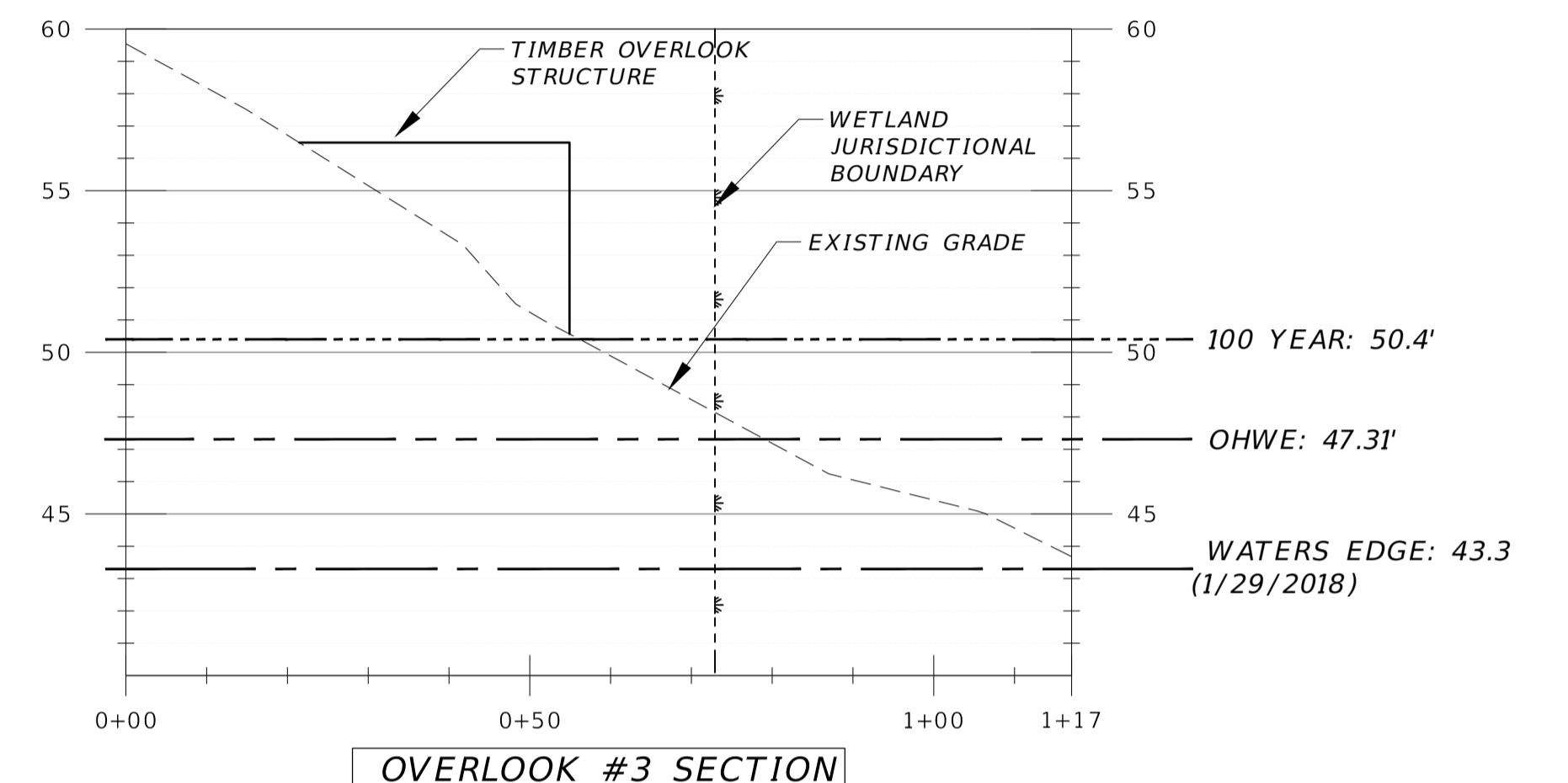
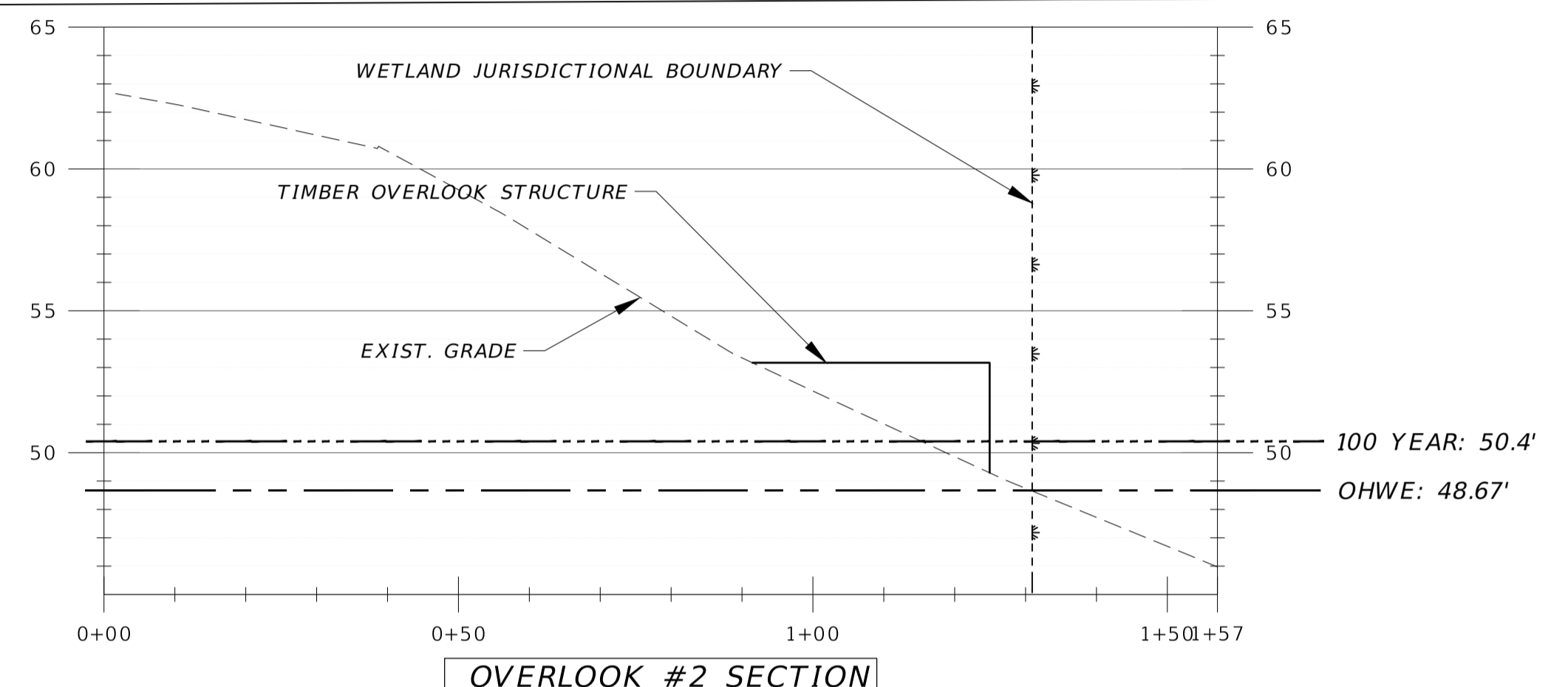
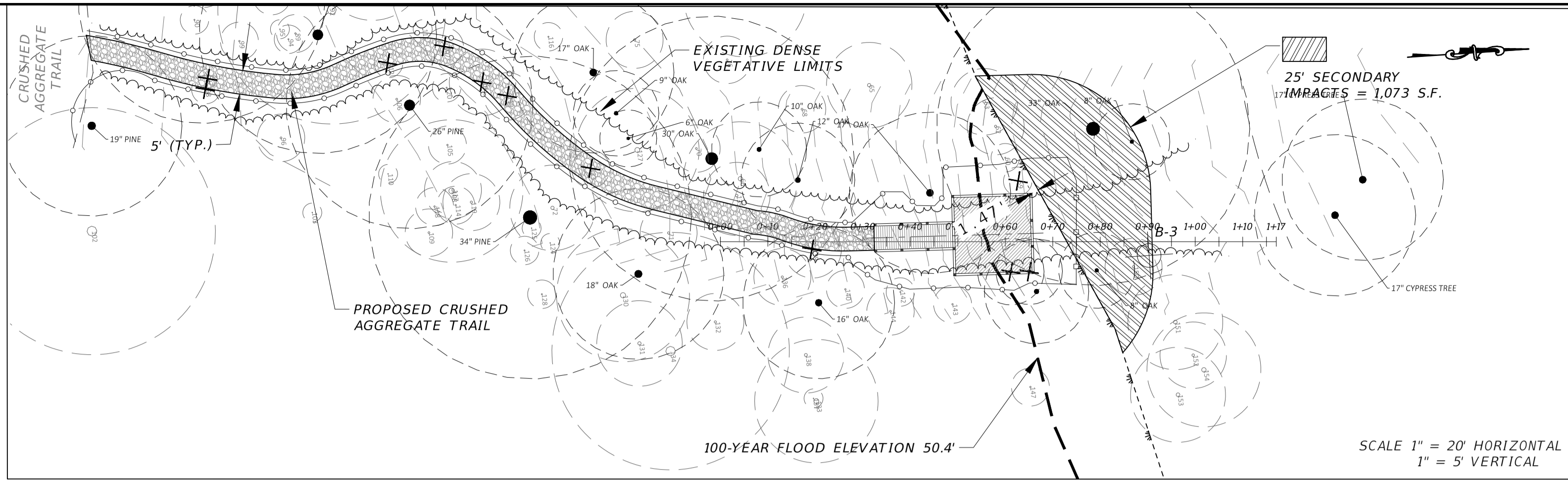
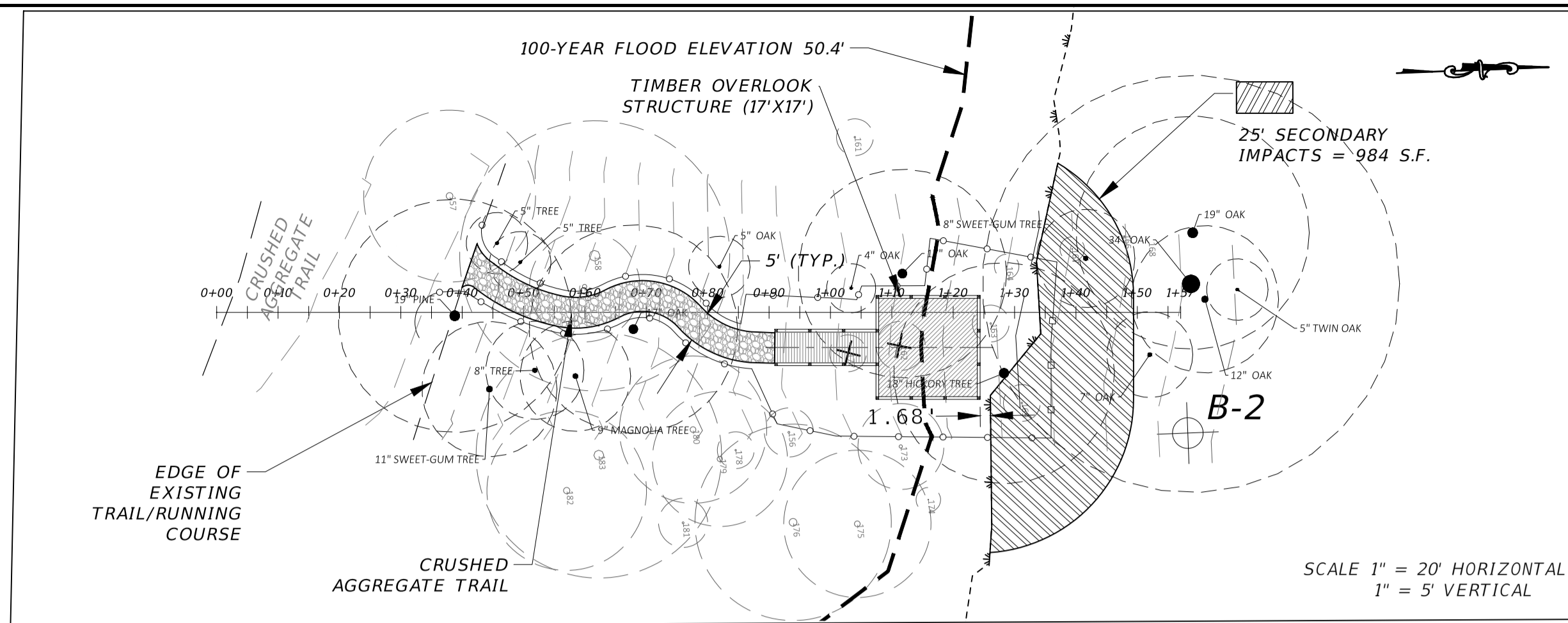
**UTILITY PLAN AND PROFILE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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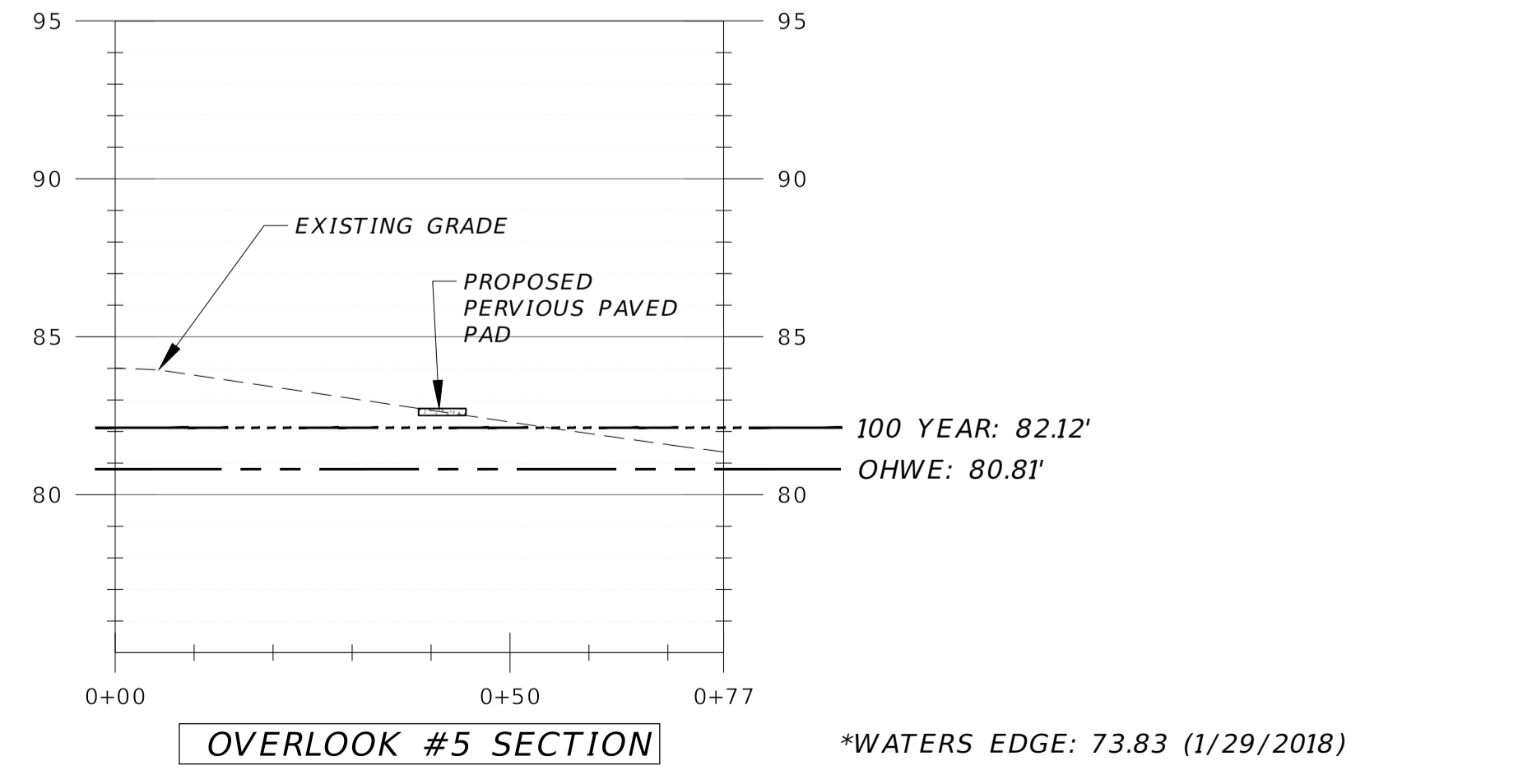
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BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.: 15-0513.004  
SCALE: AS SHOWN  
DATE: 10/18/2019  
DRAWING: 14



Tree Removal Table			
Location	Tree No.	Common Name	DBH (inches)
Overlook #2	177	Laurel Oak	3
Overlook #2	162	Flowering Dogwood	4
Overlook #3	97	Sweetgum	2
Overlook #3	98	Laurel Oak	3
Overlook #3	112	Pignut Hickory	3
Overlook #3	107	Pignut Hickory	4
Overlook #3	104	Pignut Hickory	7
Overlook #3	113	Water Oak	5
Overlook #3	123	Pignut Hickory	4
Overlook #3	139	Pignut Hickory	6
Overlook #3	145	Pignut Hickory	7
Overlook #3	146	Pignut Hickory	7
Overlook #3	59	Red Maple	3
Overlook #4	383	Chinaberry	6
Overlook #4	409	Hackberry	3
Overlook #4	371	Hackberry	12
Overlook #4	365	Hackberry	7
Overlook #4	374	Water Oak	9
Overlook #4	392	American Hornbeam	6
Overlook #4	365	Hackberry	7



NO.	DATE	DESCRIPTION	BY

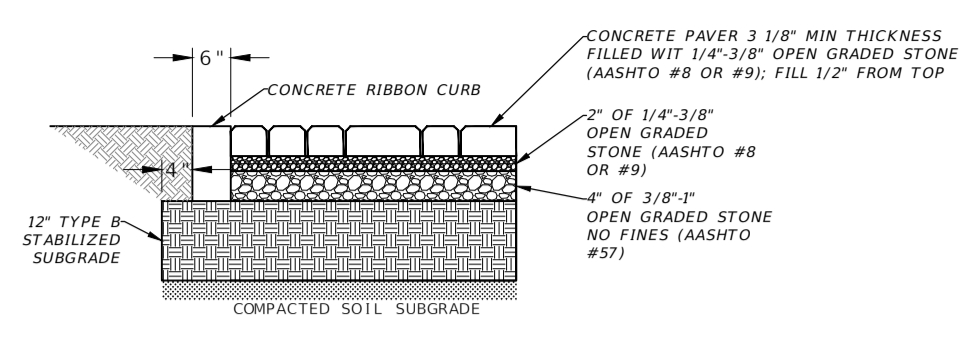
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SCENIC OVERLOOKS NO. 2-5 PLAN AND PROFILE APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS  
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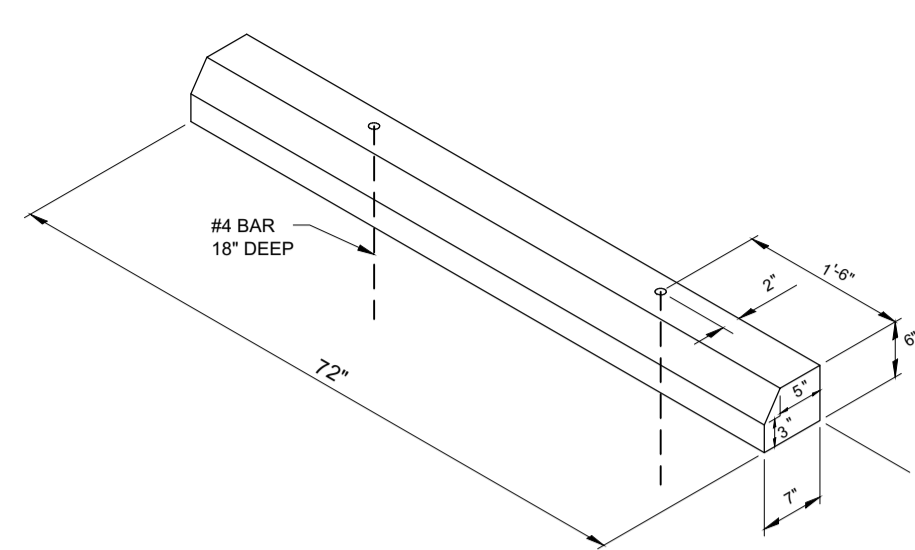
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 DRAWING: 15

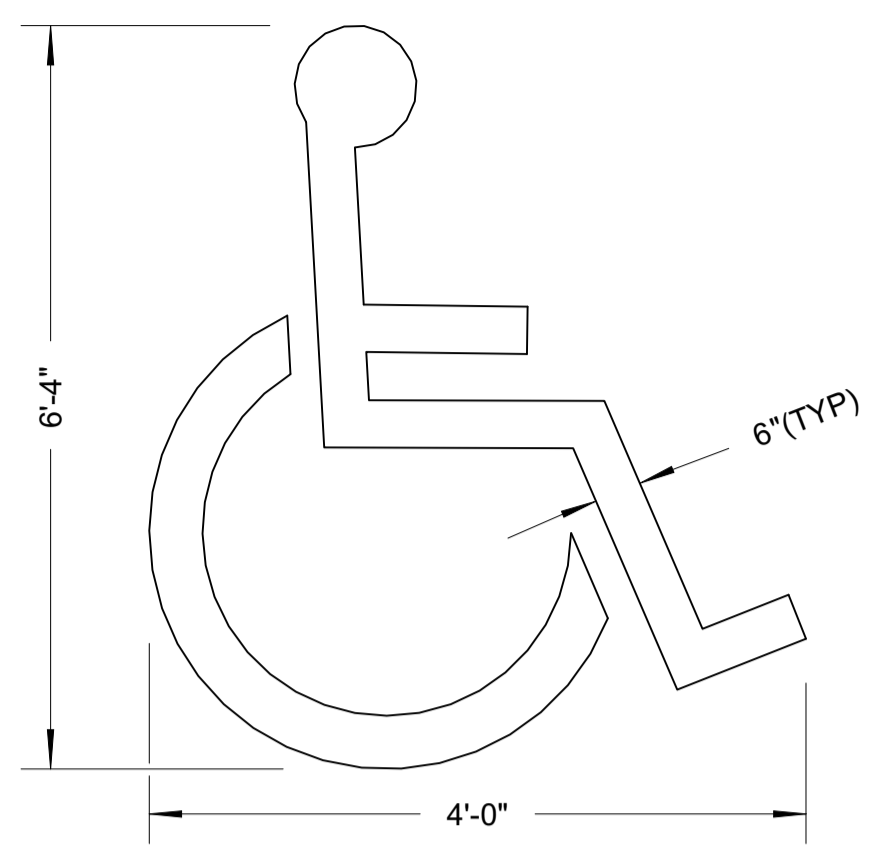


NOTES:  
1. PAVERS: BELGARD AQUA-BRIC PERMEABLE PAVER OR APPROVED EQUAL. DIMENSIONS: 5"x10"x3/4"

**PERVIOUS PAVERS (OVERLOOK #5)**

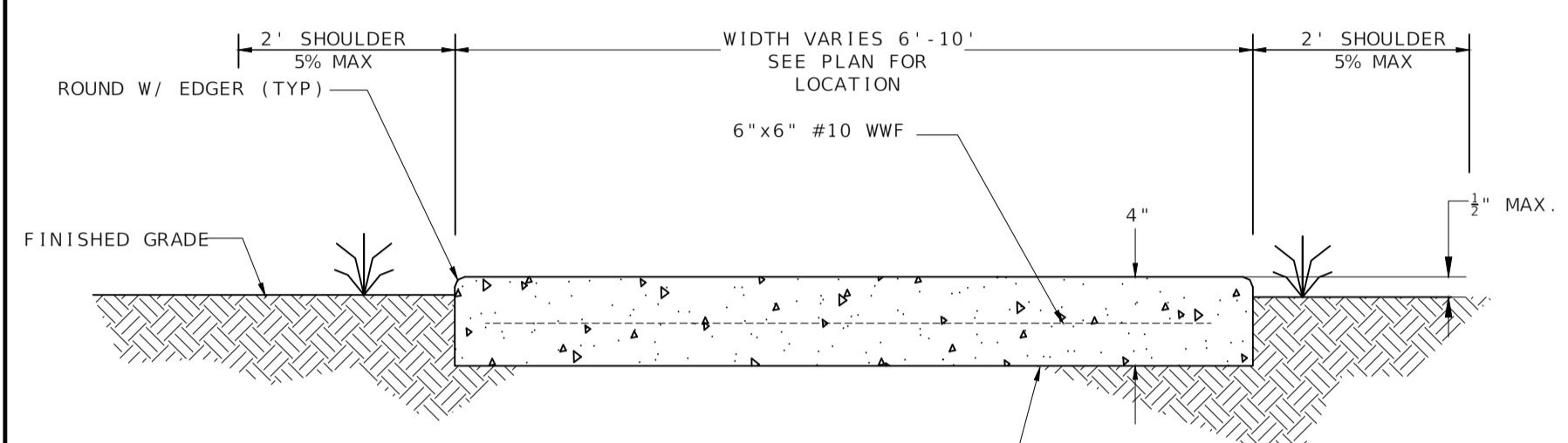


**TYPICAL CONCRETE WHEEL STOP**

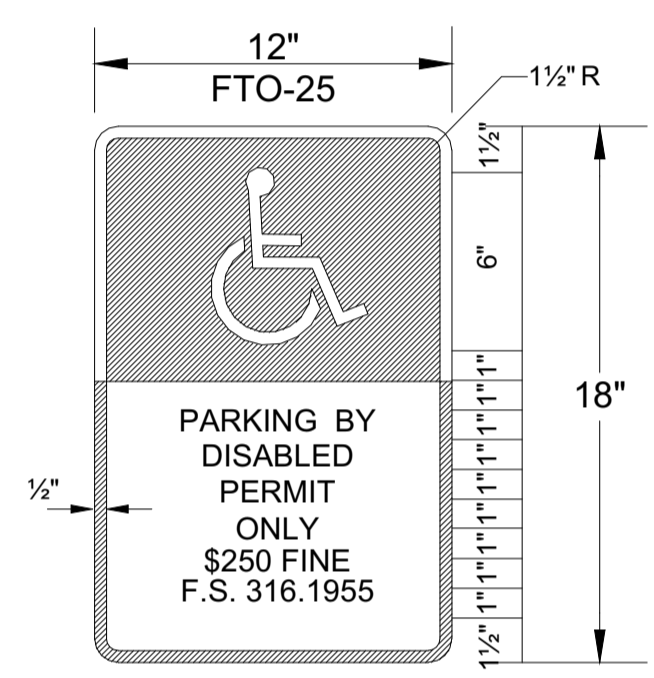


NOTE:  
THIS SYMBOL TO BE WHITE THERMOPLASTIC.

**TYPICAL PAVEMENT SYMBOL FOR HANDICAP PARKING**



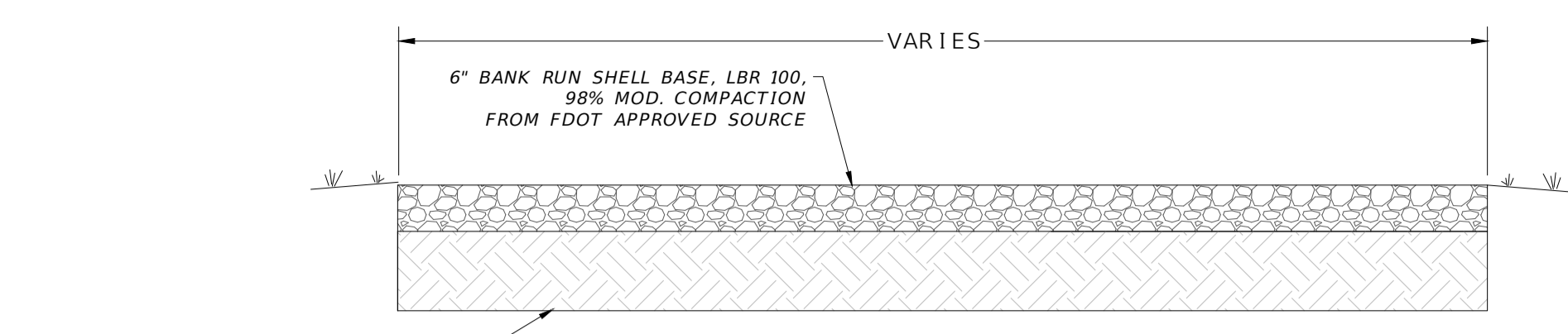
**TYPICAL CONCRETE SIDEWALK/DRIVEWAY SECTION**



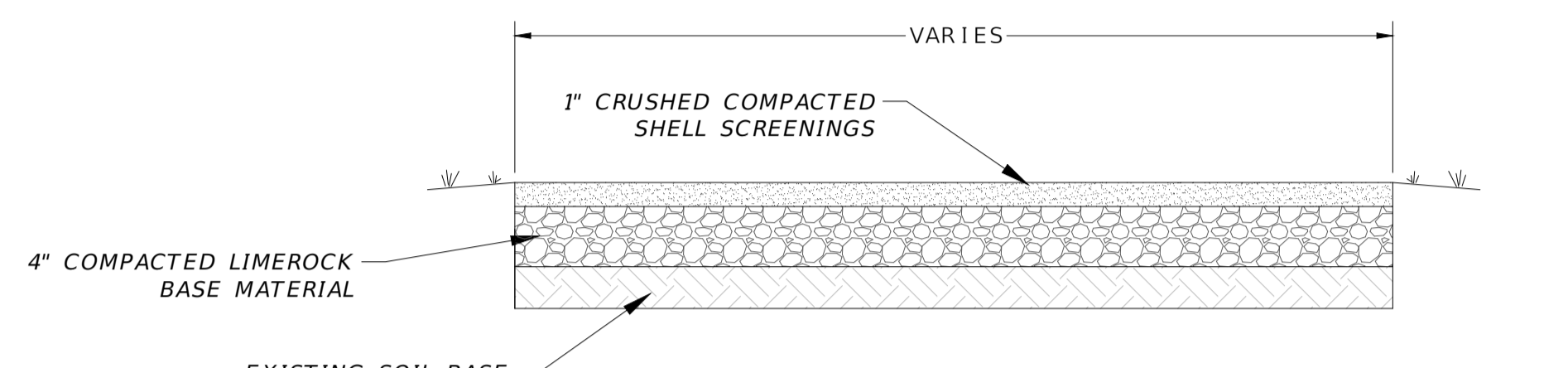
NOTE: (HANDICAP SIGN ONLY)

- ALL LETTERS SHALL BE BLACK AND 1" IN HEIGHT. LETTERS ARE TO BE SERIES "B" OR "C", PER MUTCD.
- TOP PORTION OF SIGN SHALL HAVE REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
- BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK BORDER.
- ONE SIGN REQUIRED FOR EACH PARKING SPACE.
- HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD)

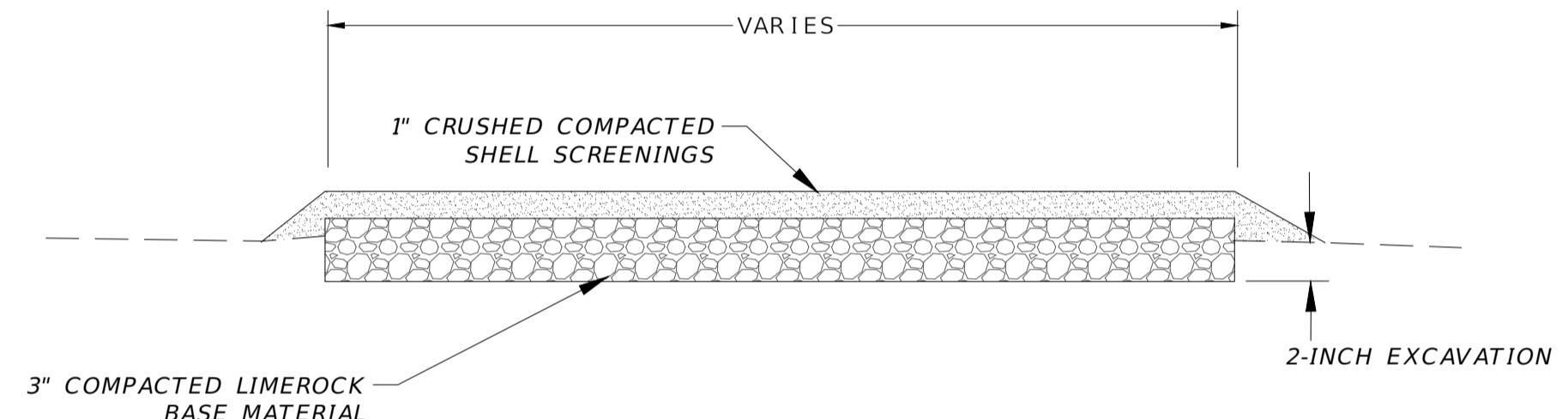
**TYPICAL HANDICAP PARKING SIGNAGE**



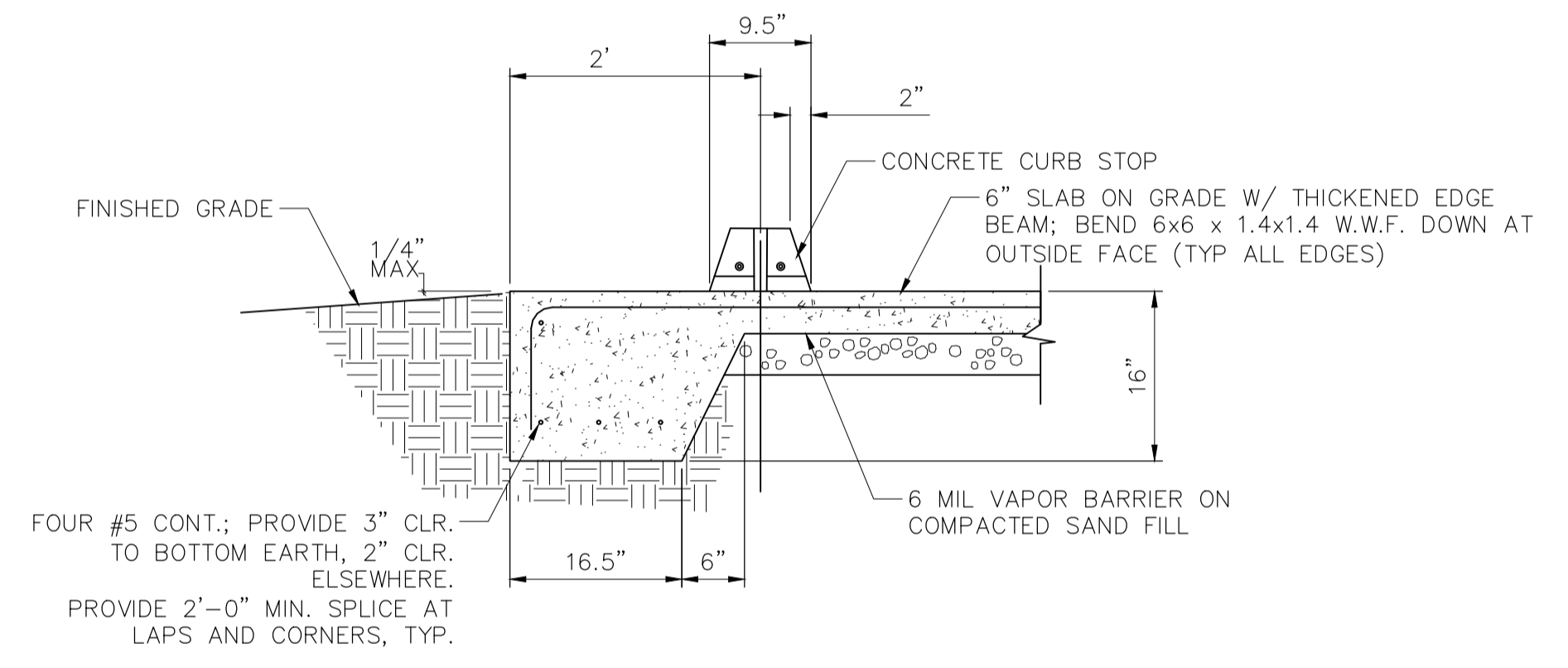
**TYPICAL GRAVEL ROAD SECTION**



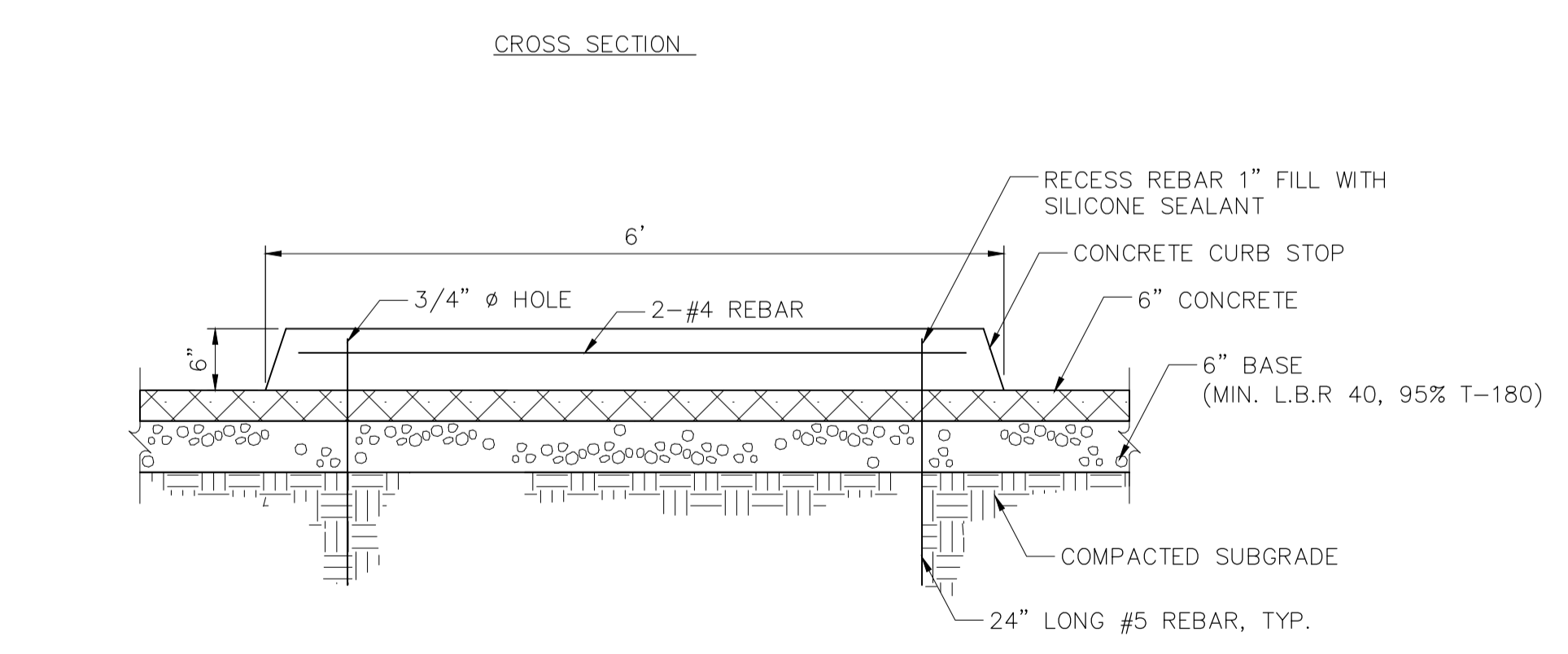
**TYPICAL GRAVEL SIDEWALK SECTION**



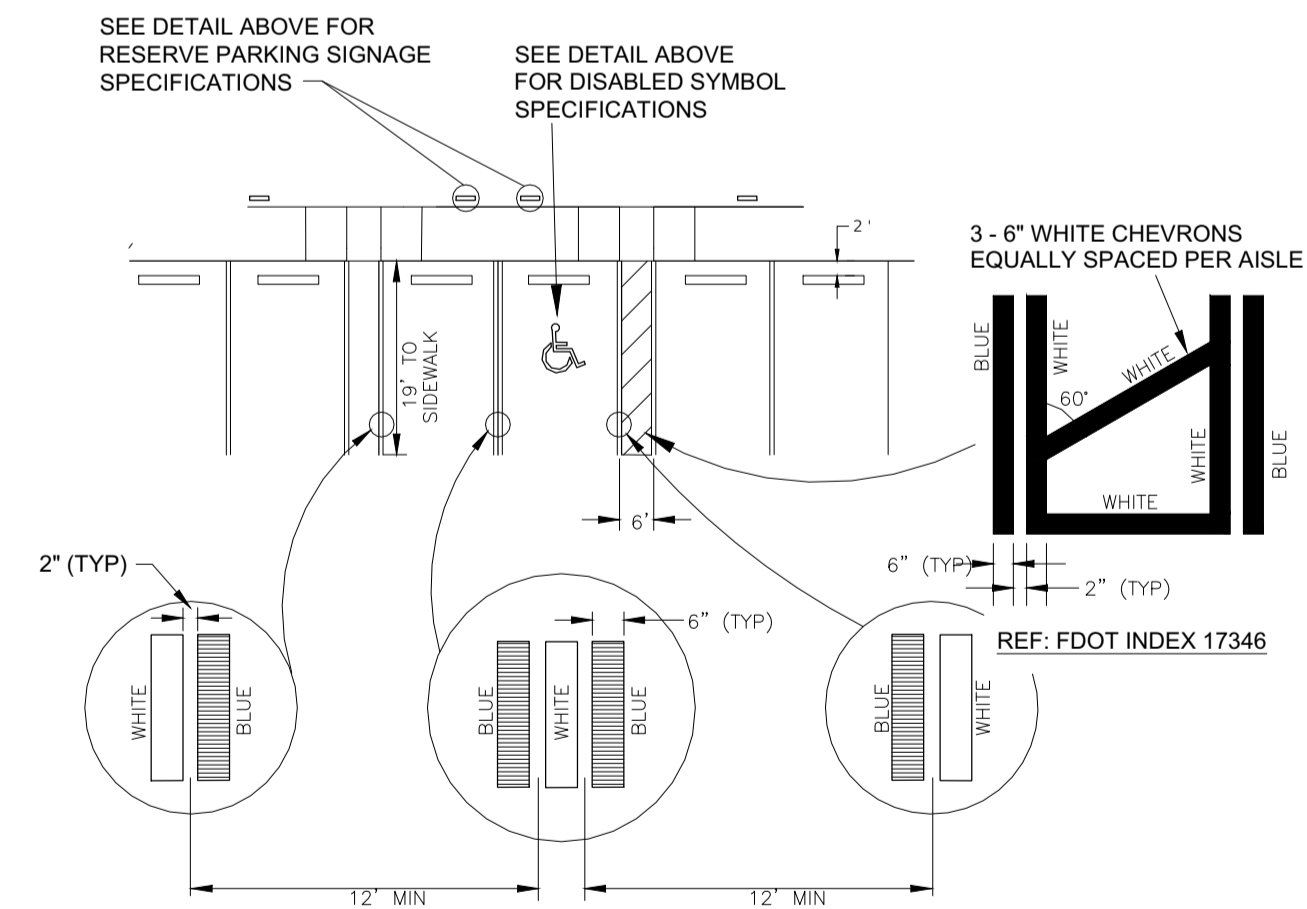
**TYPICAL GRAVEL TRAIL SECTION (OVERLOOKS)**



**CROSS SECTION**



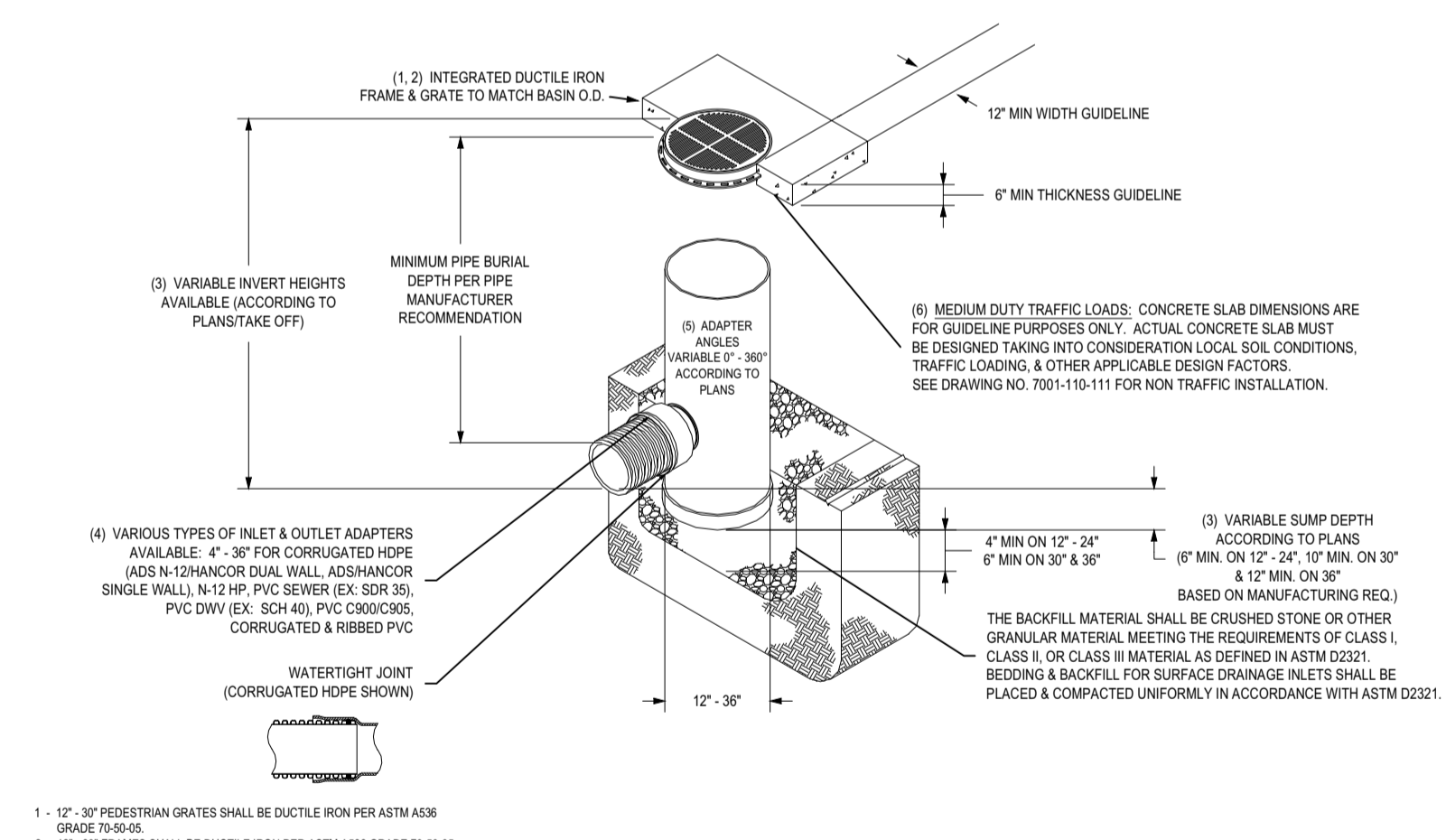
**CONCRETE SECTION (ADA ONLY)**



NOTES:

- EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY STRIPED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND THE CAPTION "PARKING BY DISABLED PERMIT ONLY". SUCH SIGNS SHALL NOT BE OBTURED BY A VEHICLE PARKED IN THE SPACE. ALL DISABLED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.
- PARKING SPACE WIDTH SHALL BE MEASURED FROM CENTER TO CENTER BETWEEN BLUE AND WHITE STRIPES.

**ACCESSIBLE PARKING STRIPING**



**NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE**

1-12", 30" PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 150-05.  
2-12", 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 150-05.  
3-DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. REBAR IS REQUIRED FOR BASINS OVER 14" ON TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-095.  
4-DRAINAGE CONNECTION TO CURB. CURB THICKNESS SHALL CONFORM TO ASTM D3022 FOR CORRUGATED HOPE (ADS N-12) MANHOLE DUAL WALL, 12" HP, PVC (SEE DETAIL) OR CORRUGATED RIBBED PVC.  
5-ADAPTERS CAN BE MOUNTED 0° TO 90° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-020.  
6-12", 24" PEDESTRIAN GRATES SHALL MEET 10-10 LOAD RATING. 30" PEDESTRIAN GRATE SHALL MEET 10-10 LOAD RATING (SEE DRAWING NO. 7001-110-144 FOR H-20 TRAFFIC LOAD GUIDELINES).

**NYLOPLAST DRAINAGE STRUCTURE**

**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE LEON COUNTY, FLORIDA GRASS PARKING AREA MAINTENANCE PLAN**

THE TWO GRASS PARKING AREAS FOR THE CROSS COUNTRY VENUE SHALL BE MAINTAINED TO PREVENT EROSION AND MUDDY AREAS AND MAINTAIN A VEGETATED TURF SURFACE. THE AREAS SHALL BE INSPECTED AFTER EACH MAJOR EVENT. BARE AREAS WITH NO GRASS SHALL FILLED, SOIL PREPPED, AND SODDED OR SEEDDED AS NECESSARY TO RE-ESTABLISH THE TURF. THESE AREAS SHALL BE TEMPORARILY FENCED, STAKED, AND OR FLAGGED TO PREVENT TRAFFIC IN THE REPAIR AREA UNTIL THE TURF IS RE-ESTABLISHED.

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
MHB	JMM	BRL	BRL

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
PHONE (850) 606-1500  
FAX (850) 606-1501

**CONSTRUCTION DETAILS**  
**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

**DRMP**  
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
Certificate of Authorization No. 2648  
2882 Remington Green Circle  
Tallahassee, Florida 32308  
Phone: 850.562.9600 WWW.DRMP.COM

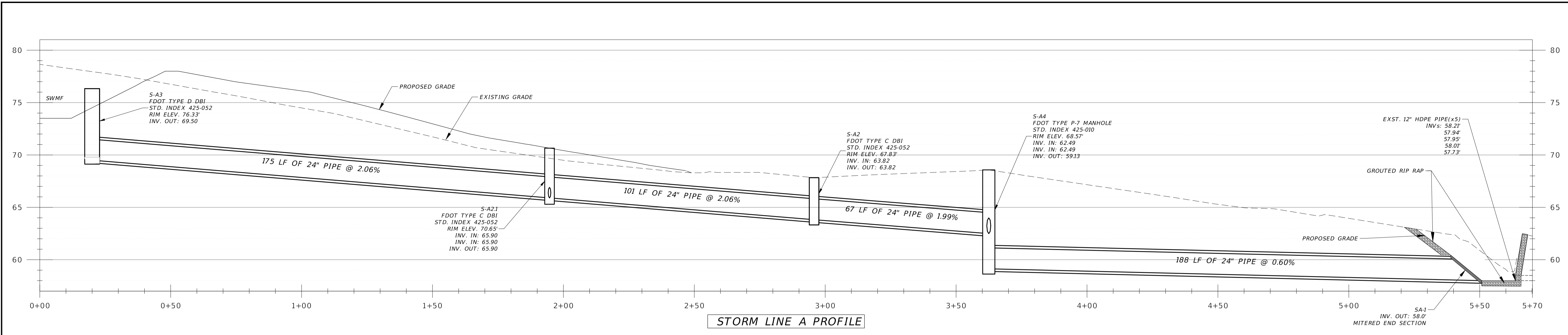
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BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.:  
**15-0513.004**

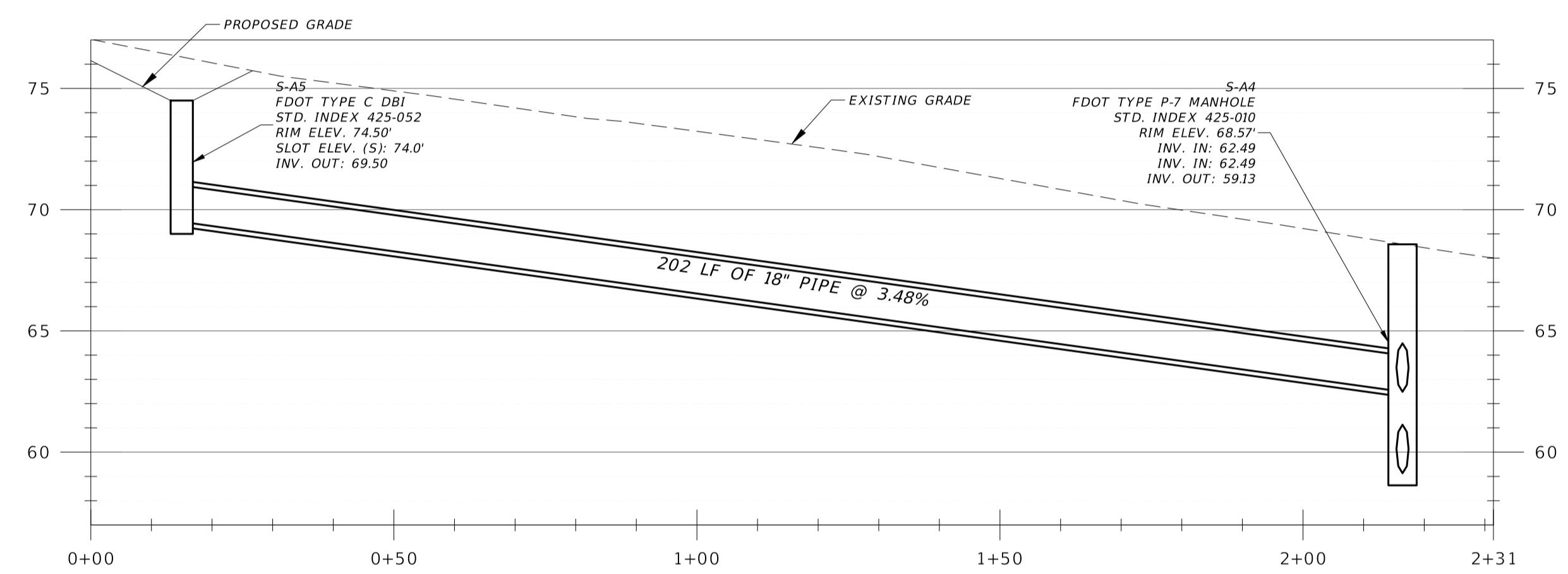
SCALE:  
**AS SHOWN**

DATE:  
**10/18/2019**

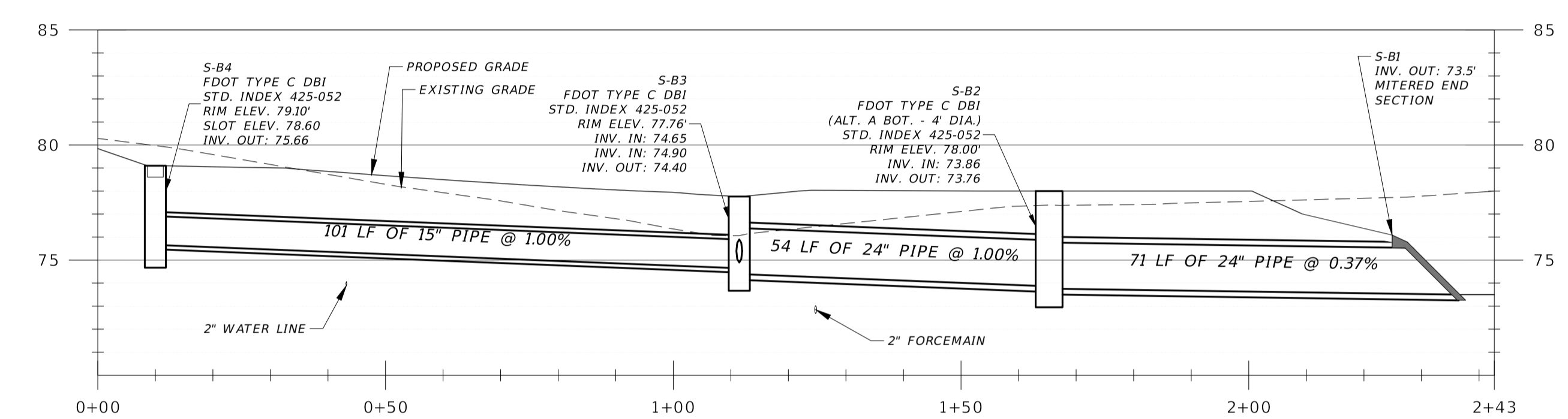
DRAWING:  
**16**



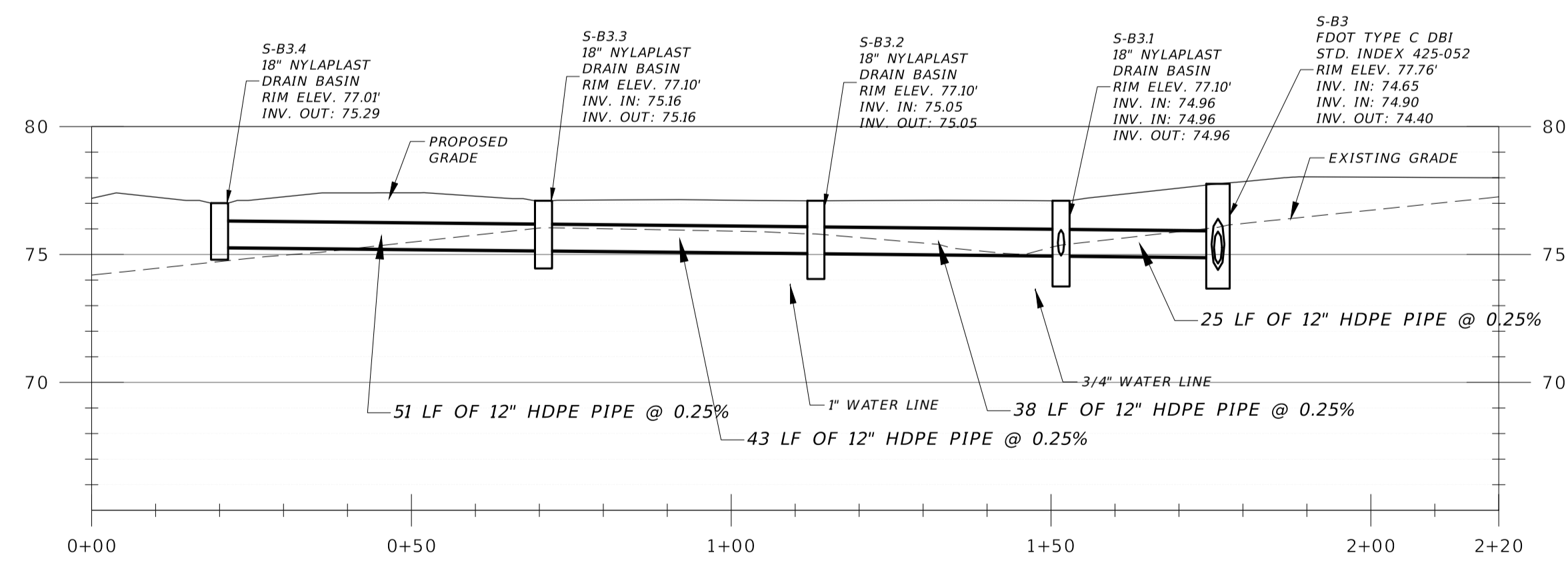
STORM LINE A PROFILE



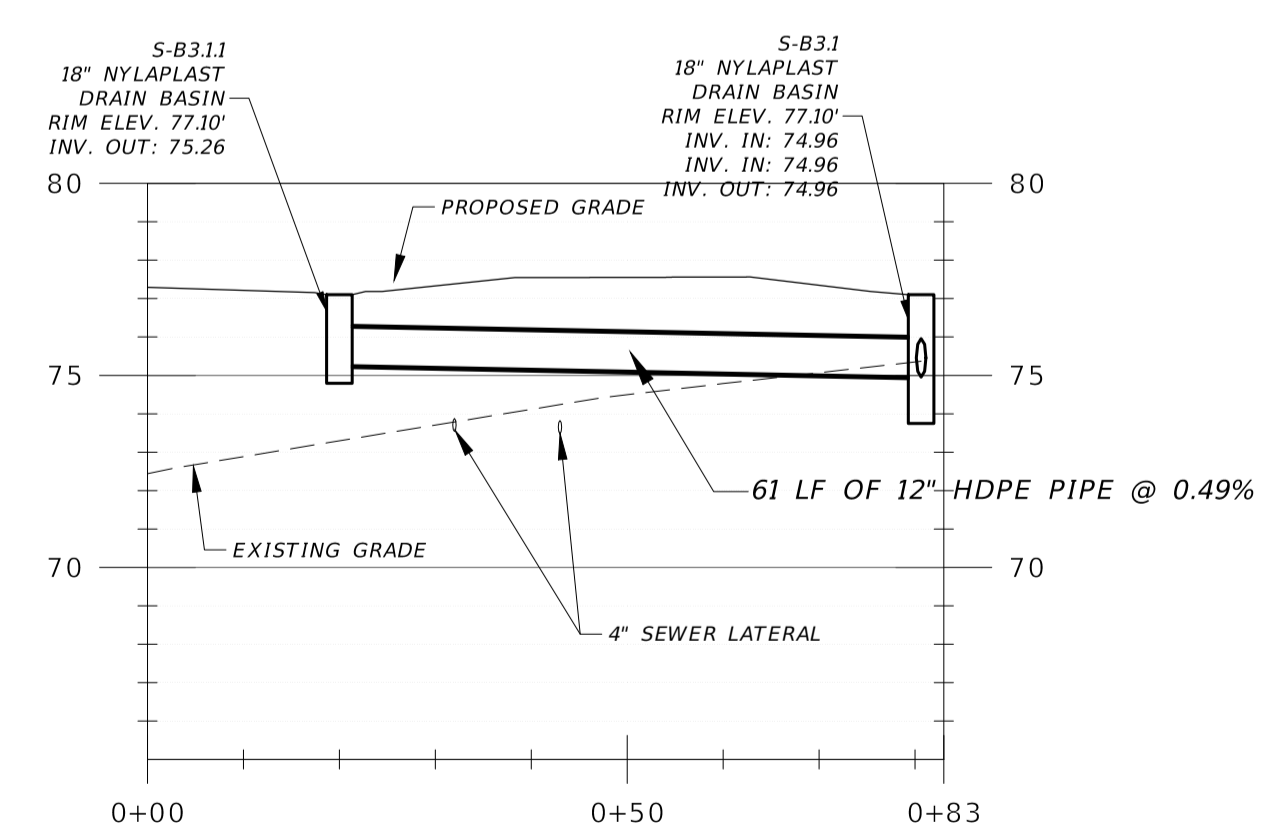
STORM LINE A4-A5 PROFILE



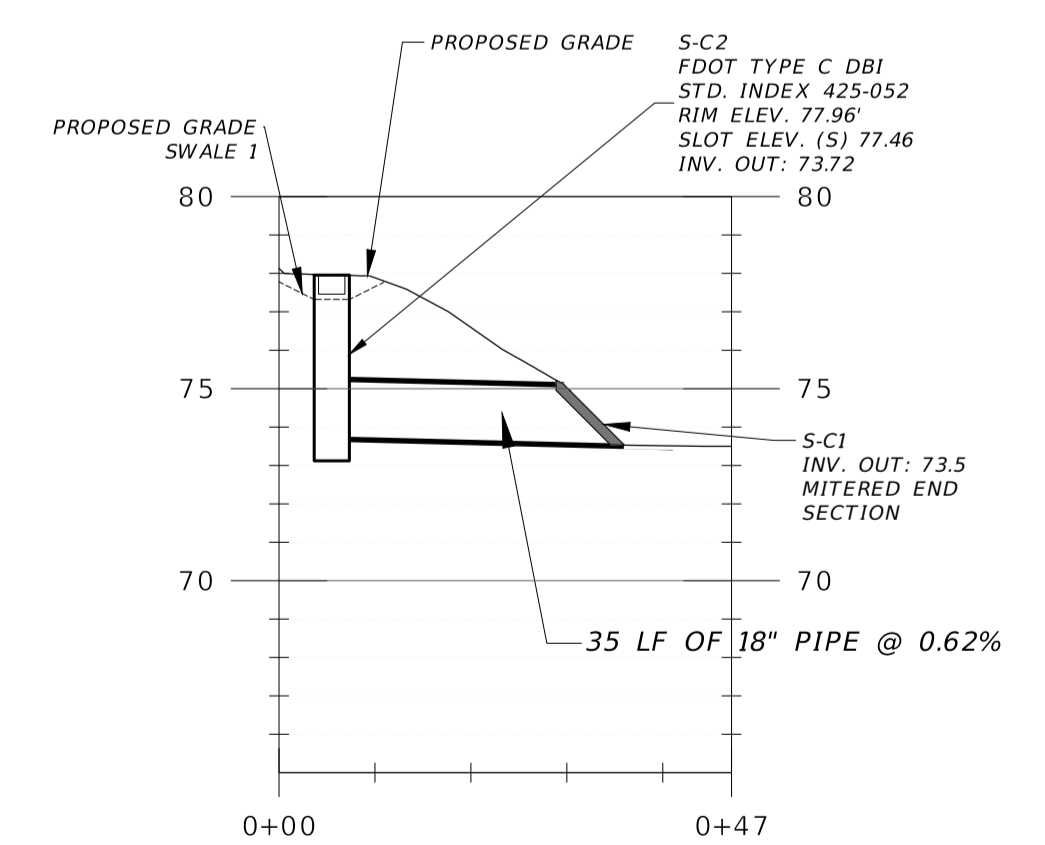
STORM LINE B1-B4 PROFILE



STORM LINE B3-B3.4 PROFILE



STORM LINE B3.1-B3.1.1 PROFILE



STORM LINE C PROFILE

NOTE: ALL TYPE C DBI'S TO HAVE STEEL GRATES.

NO.	DATE	DESCRIPTION	BY

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
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DRAINAGE PLAN AND PROFILE  
 APALACHEE REGIONAL PARK  
 CROSS COUNTRY VENUE  
 INFRASTRUCTURE IMPROVEMENTS

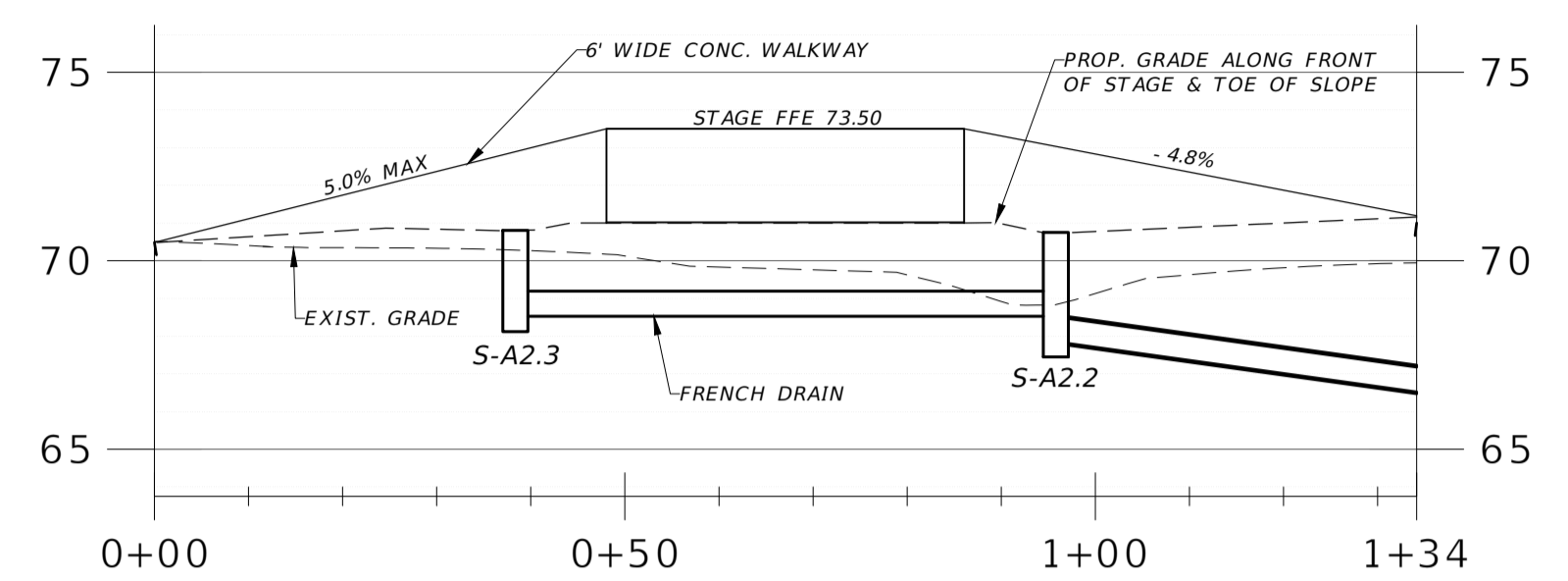
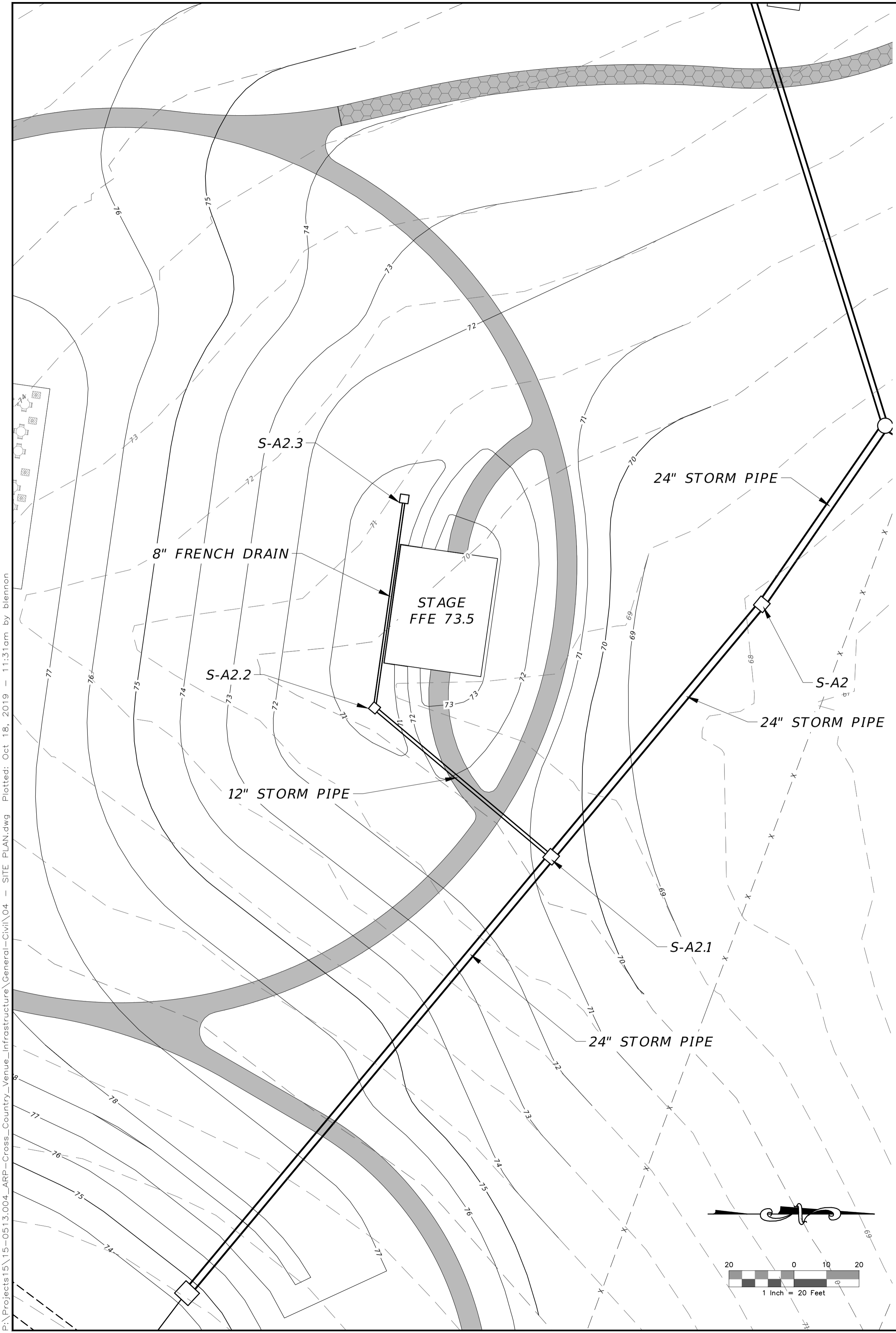
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 2882 Remington Green Circle  
 Tallahassee, Florida 32308  
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BENJAMIN LENNON, P.E.  
 Florida Engineer #78674  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 10/18/2019  
 DRAWING: 17

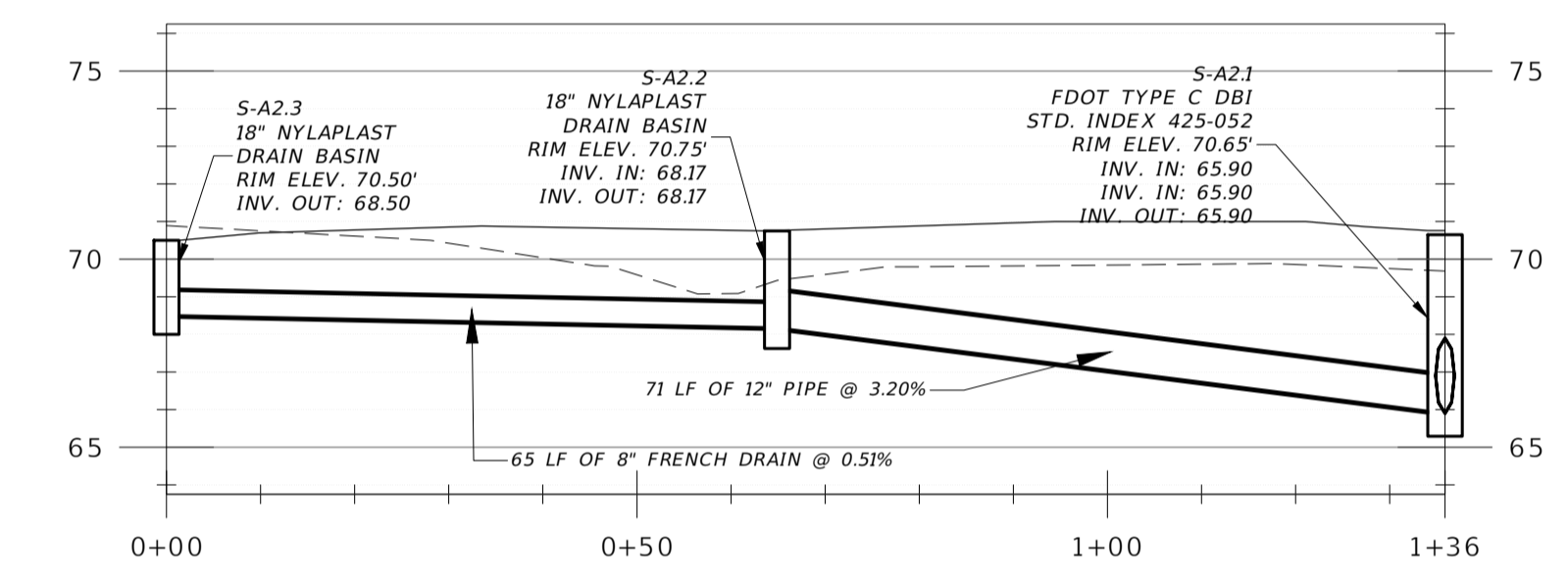
F:\Projects\15-0513.004\_ARP-Cross-Country\_Venue-Infrastructure\General-Civil\04 - SITE PLAN.dwg Plotted: Oct 18, 2019 - 1:31:01pm by bliennon





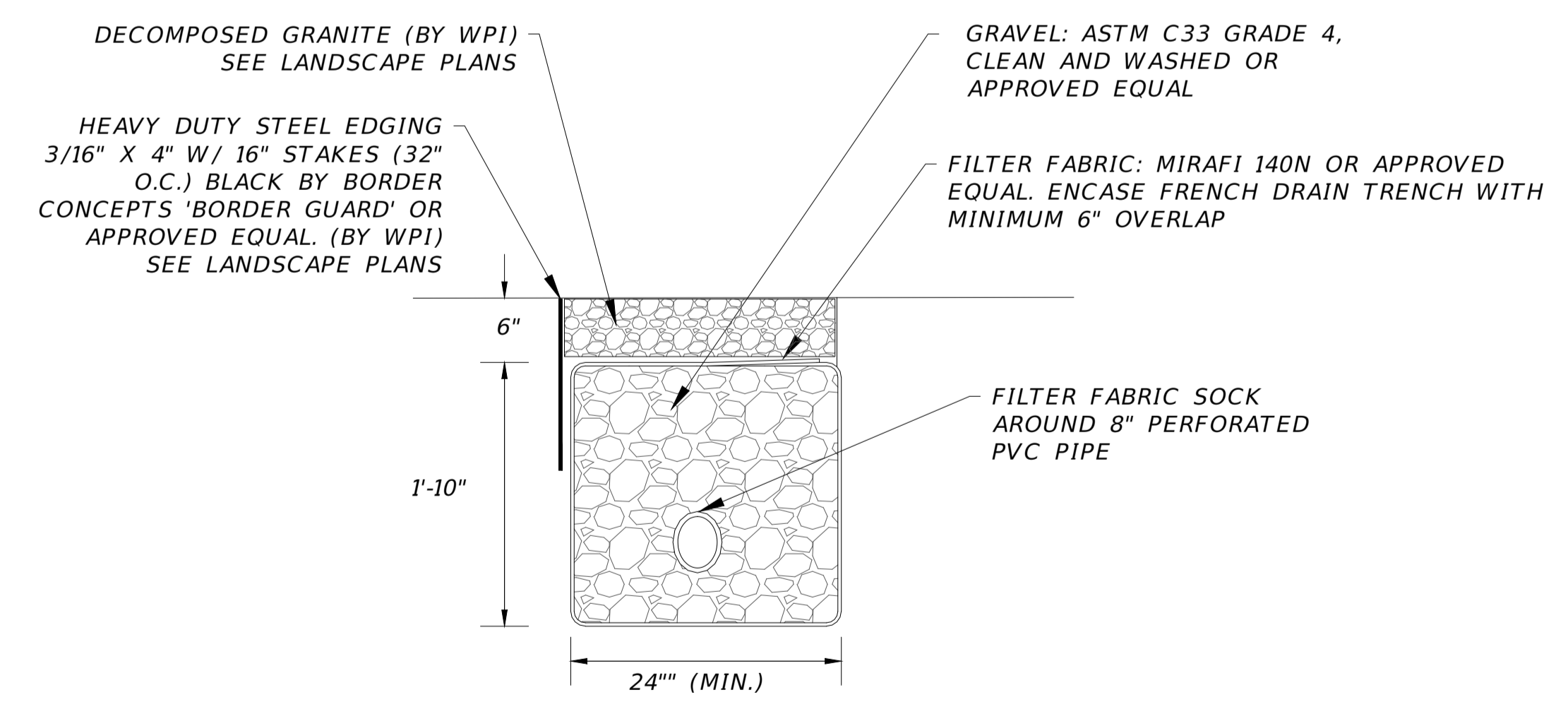
**WALKWAYS TO STAGE PROFILE**

H: 1" = 20'  
V: 1" = 4'

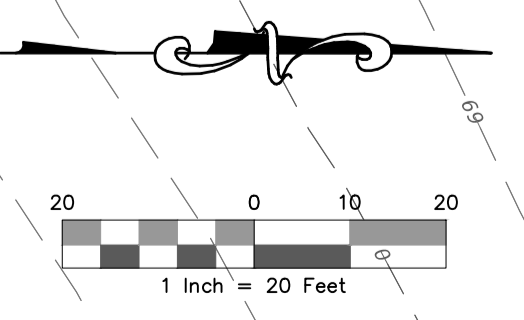


**STORM LINE S-A2.3-S-A2.1 PROFILE**

H: 1" = 20'  
V: 1" = 4'



**FRENCH DRAIN**  
N. T. S.



F:\Projects\15-0513.004\_ARP-Cross-Country\_Venue\_Infrastructure\General-Civil\04 - SITE PLAN.dwg Plotted: Oct. 18, 2019 - 1:31pm by bliemnon

REVISIONS									
NO.	DATE	DESCRIPTION	BY						
MHB	JMM	BRL	BRL						
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY						

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**

2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
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**STAGE PLAN AND PROFILES**  
**APALACHEE REGIONAL PARK**  
**CROSS COUNTRY VENUE**  
**INFRASTRUCTURE IMPROVEMENTS**

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

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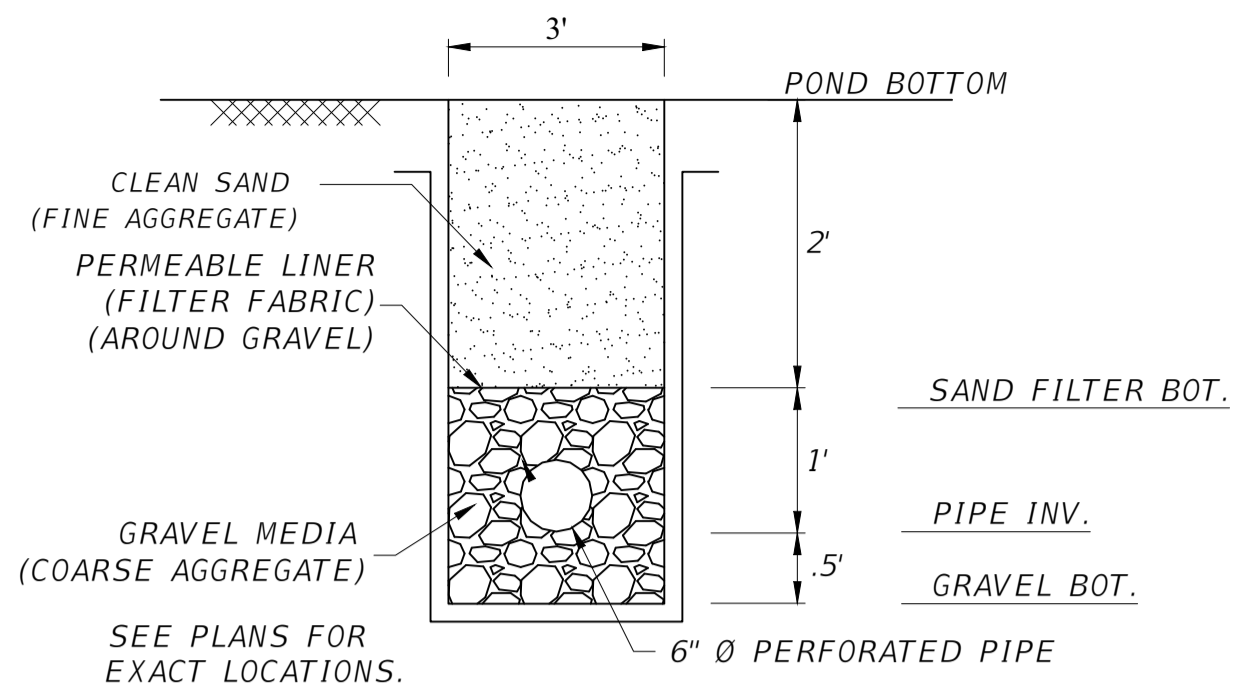
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**15-0513.004**

SCALE:  
**AS SHOWN**

DATE:  
**10/18/2019**

DRAWING:  
**18**



**FILTER DRAIN TYPICAL SECTION**

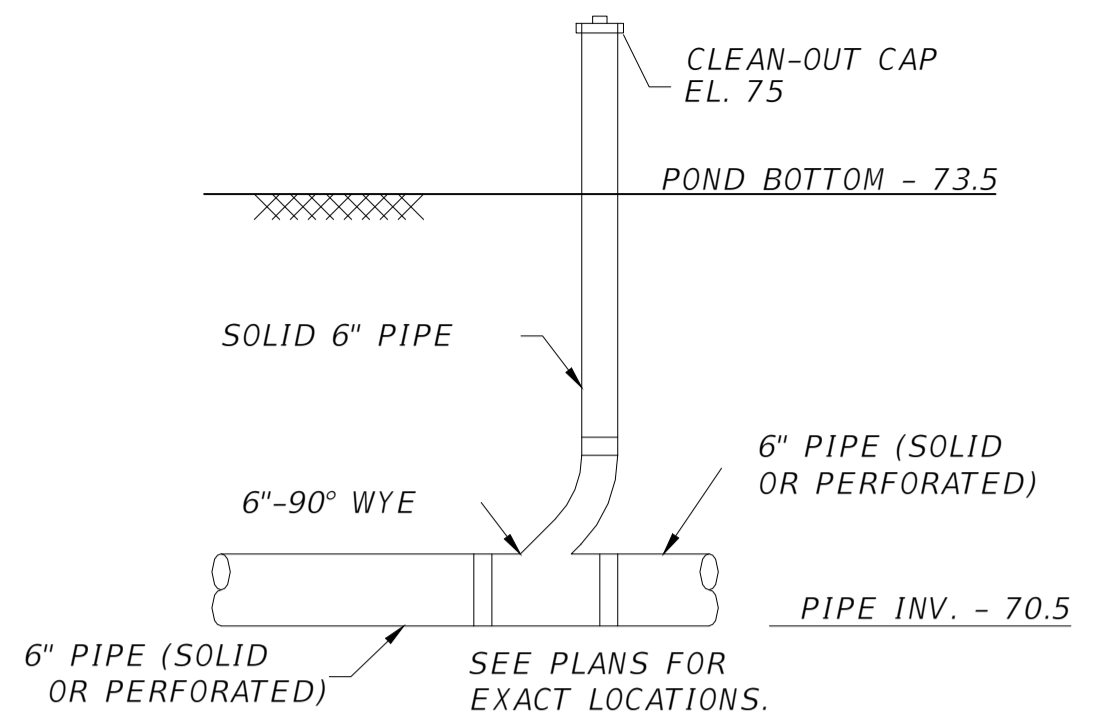
N.T.S.

NOTE:  
ALL FILTER FABRIC, SAND AND ANY IMPERMEABLE POLY LINER REQUIRED SHALL BE AS PER FDOT SPECIFICATIONS

FINE AGGREGATE SHALL BE QUARTZ SAND MEETING THE REQUIREMENTS OF SECTIONS 902-4 OF THE FDOT STANDARD SPECIFICATIONS

COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF SECTIONS 901-2 OR 901-3 OF THE FDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL MEET SECTION 901, GRADES 4, 467, 5, 56 OR 57 STONE.

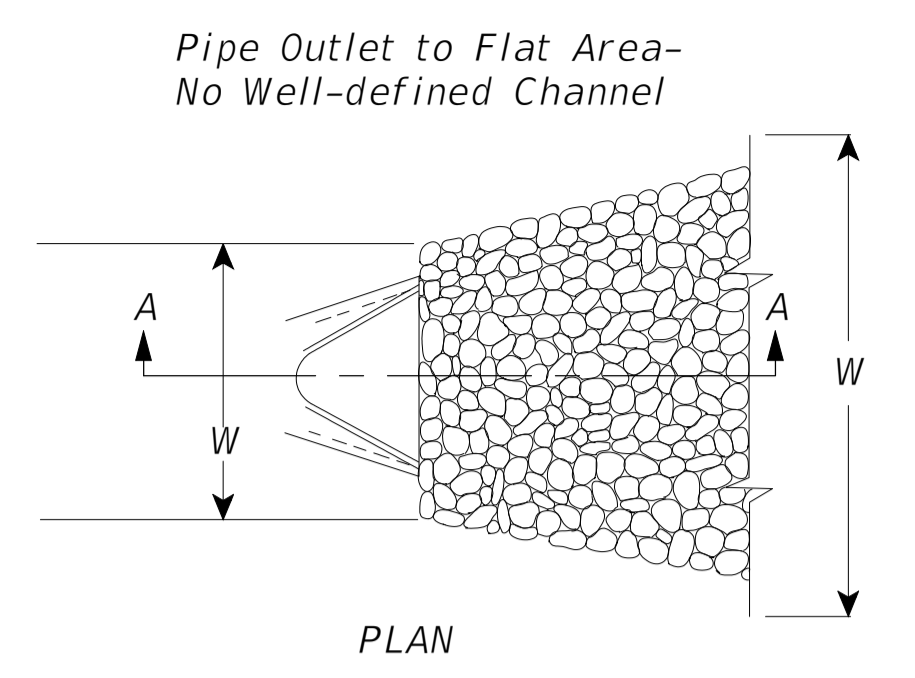
SEE FDOT INDEX 286 FOR ADDITIONAL INFORMATION ON UNDERDRAIN NOTES AND REQUIREMENTS



**CLEANOUT TYPICAL SECTION**

N.T.S.

NOTE:  
ONE (1) OF THE CLEANOUTS NEAREST THE SIDE BANK SHALL BE MARKED IN 3" INCREMENTS STARTING AT THE BOTTOM OF THE POND AT "0" AND SHALL CONTINUE TO THE TOP OF THE CLEANOUT CAP. EVERY FOOT SHALL BE LABELED 0, 1, 2, ETC. ALL MARKINGS SHALL BE COMPLETED IN EASILY IDENTIFIABLE, NON FADING AND READABLE MARKINGS.

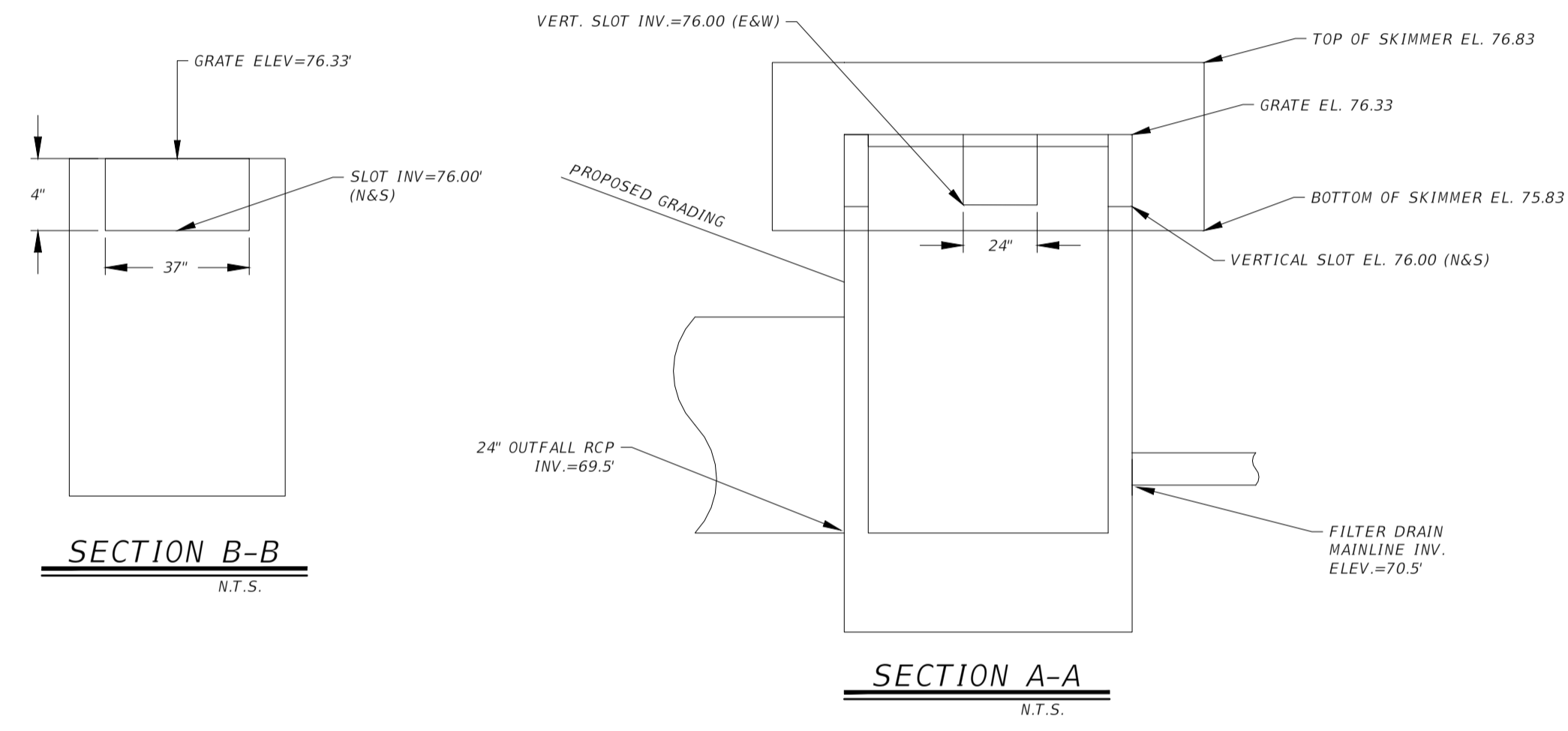


**RIP-RAP APRON**

N.T.S.

- NOTES:
1. EOS IS NOT LARGER THAN U.S. 40 (MAX)
  2. TENSILE STRENGTH = 200LB
  3. BURSTING STRENGTH = 500LB
  4. PUNCTURE RESISTANCE = 100LB
  5. GRAB ELONGATION = 65LB
- CONFORM TO ASTM D-1682 OR ASTM D-177

SEE PLAN SHEETS FOR ACTUAL DIMENSIONS FOR RIP RAP APRONS

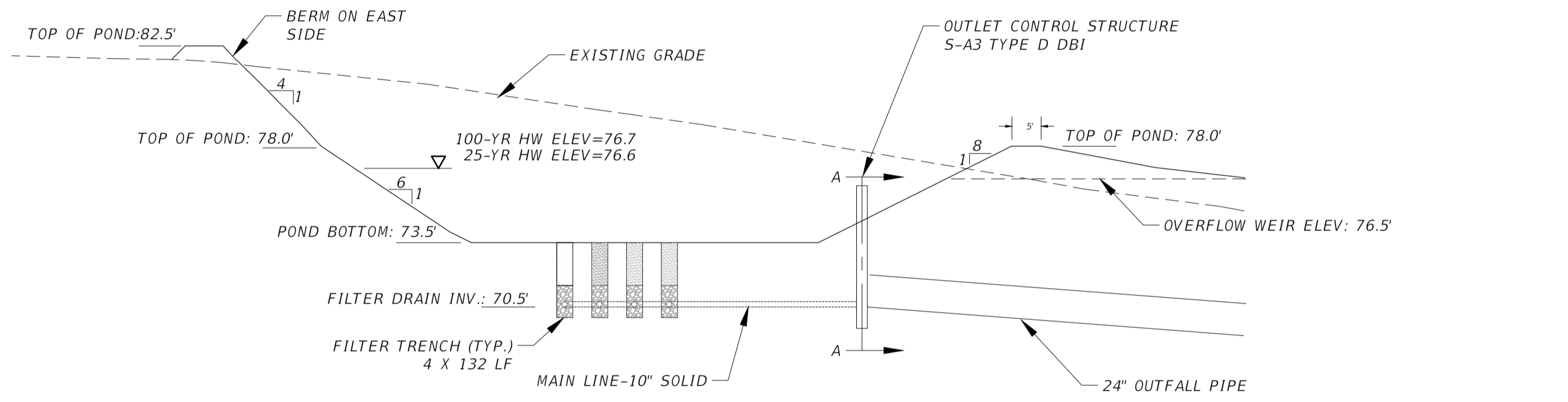


**SECTION B-B**

N.T.S.

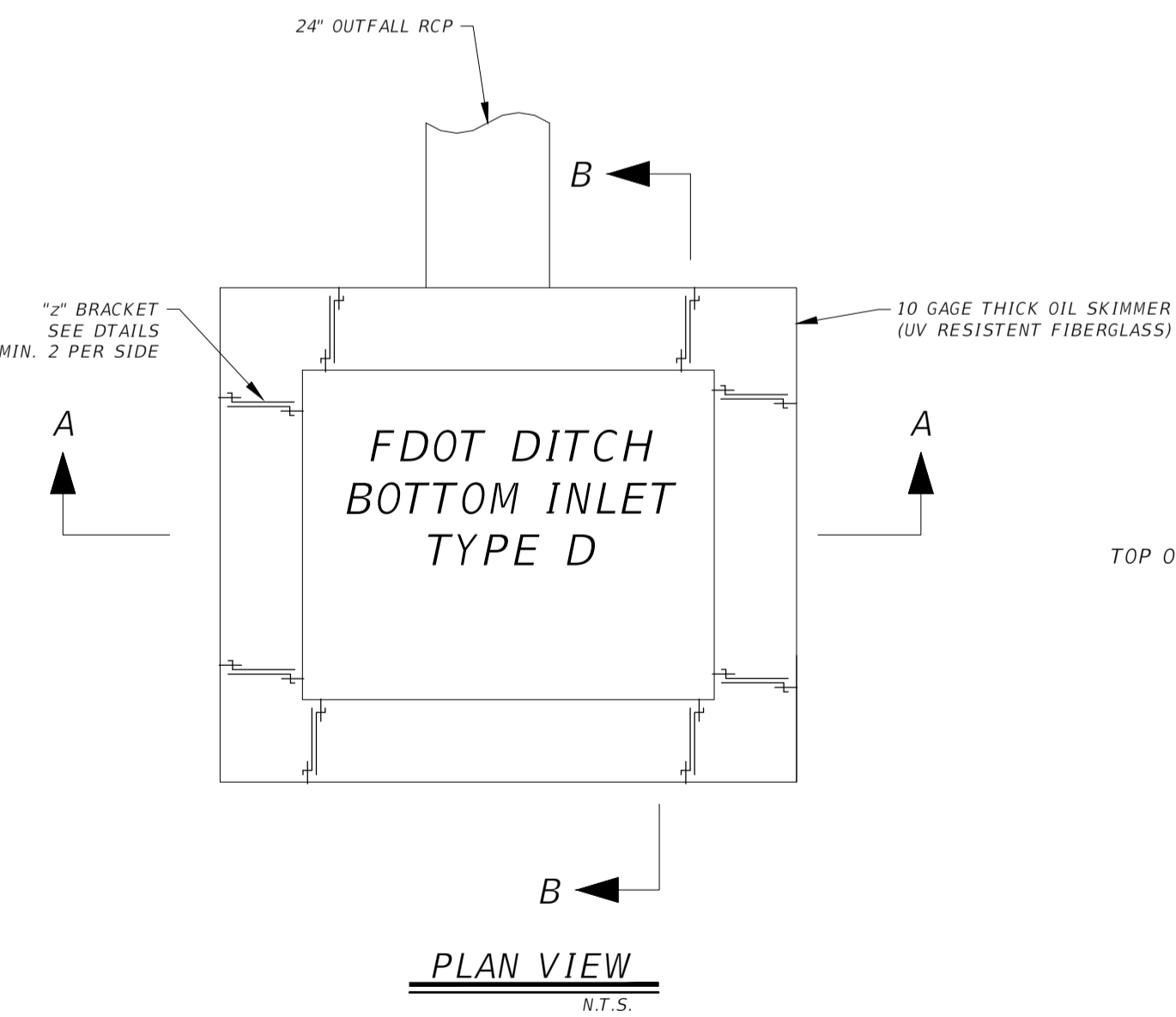
**SECTION A-A**

N.T.S.



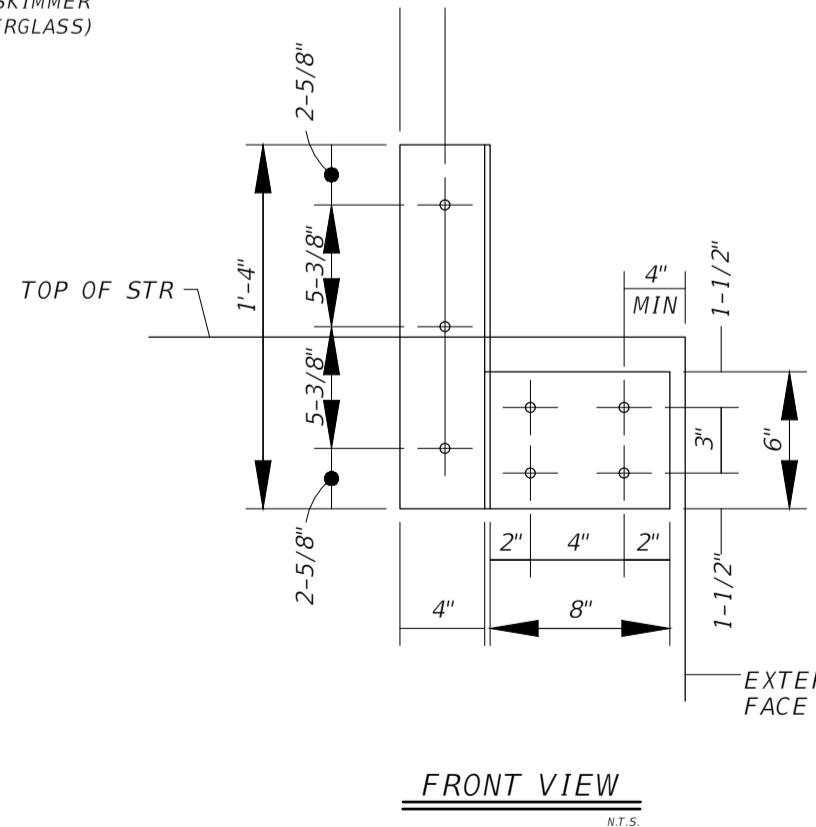
**POND TYPICAL SECTION**

N.T.S.



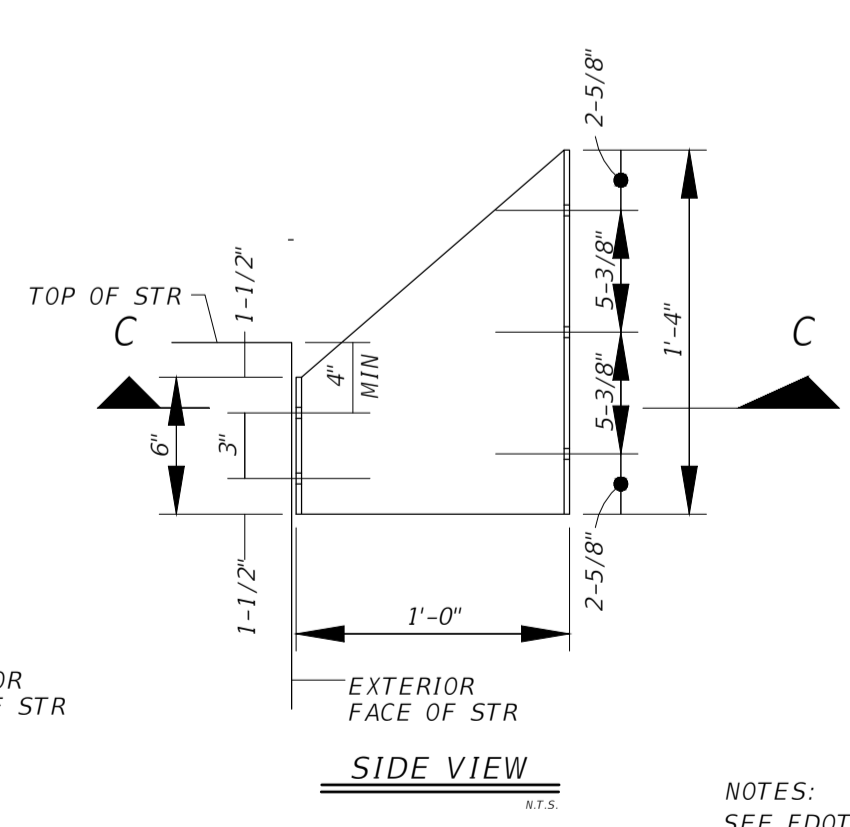
**PLAN VIEW**

N.T.S.



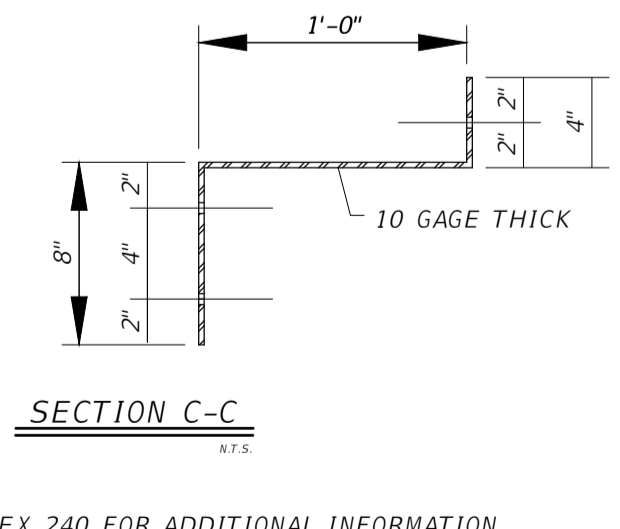
**FRONT VIEW**

N.T.S.



**SIDE VIEW**

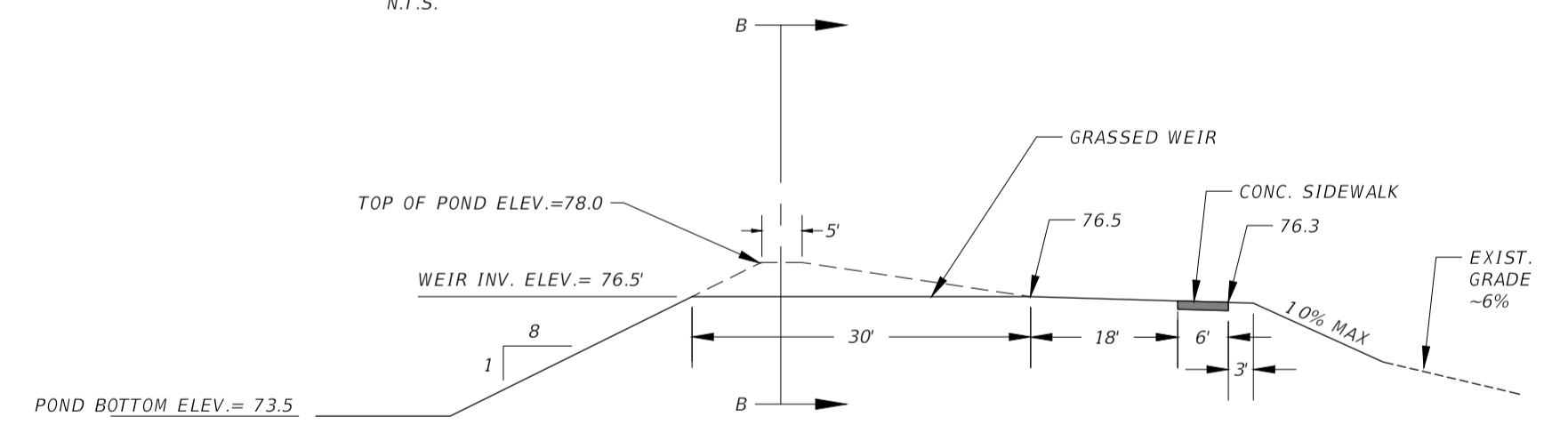
N.T.S.



**SECTION C-C**

N.T.S.

NOTES:  
SEE FDOT INDEX 240 FOR ADDITIONAL INFORMATION INCLUDING, BUT NOT LIMITED TO; BOLT AND ANCHOR, SIZE AND TYPE AND HOLE DIMENSIONS.  
ALL SKIMMERS PER THESE DETAILS AND FDOT SI 240



**OVERFLOW WEIR PROFILE SECTION**

N.T.S.

**OVERFLOW WEIR CROSS SECTION B-B**

N.T.S.

**OUTLET CONTROL STRUCTURE (S-A3) DETAIL**

N.T.S.

**'Z' BRACKET DETAILS (SKIMMER)**

N.T.S.

REVISIONS	NO.	DATE	DESCRIPTION
DESIGNED BY	MHB	DRAWN BY	JMM
CHECKED BY	BRL	APPROVED BY	BRL

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
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APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS

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Tallahassee, Florida 32308  
Phone: 850.582.9600 WWW.DRMP.COM

BENJAMIN LENNON, P.E.  
Florida Engineer #78674

PROJECT NO.: 15-0513.004

SCALE: AS SHOWN

DATE: 10/18/2019

DRAWING: 19

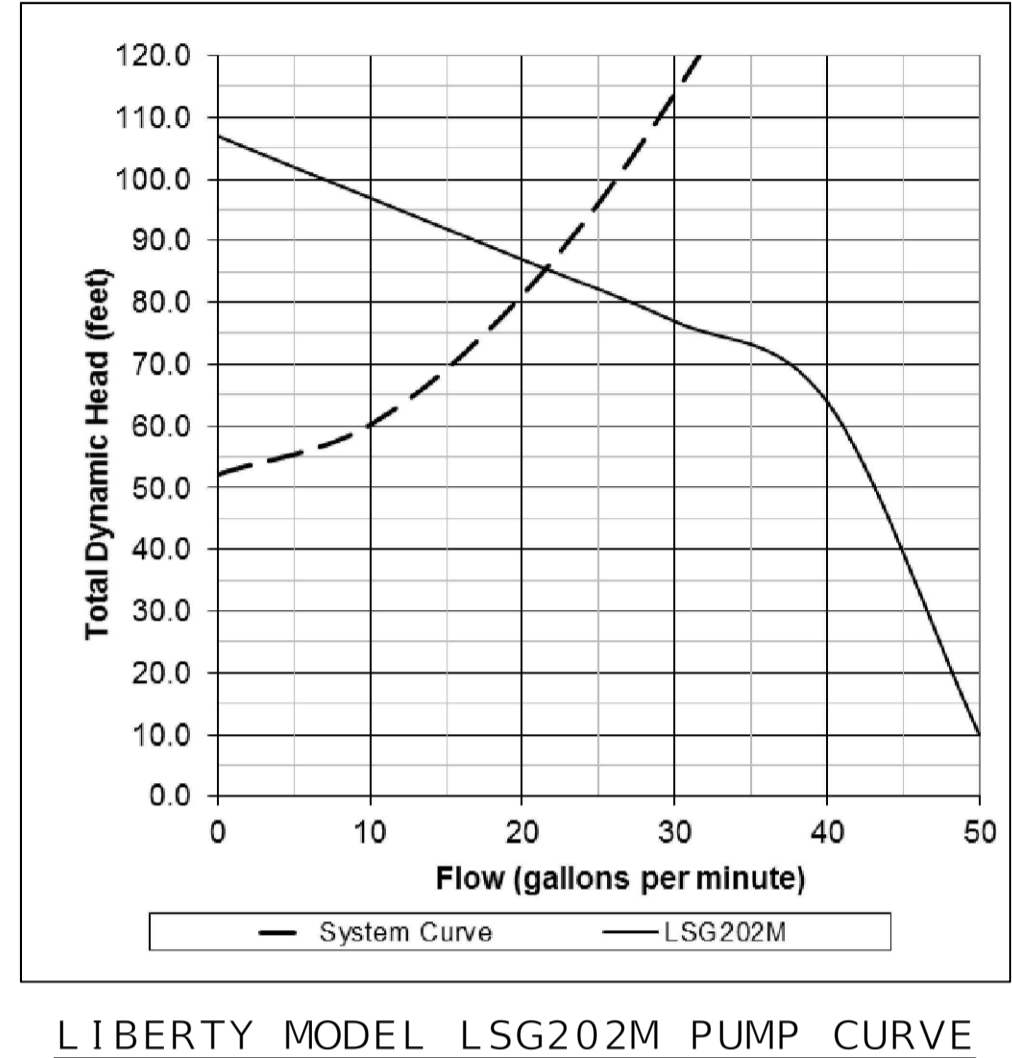
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**LIBERTY LSG202M PUMP DETAILS**

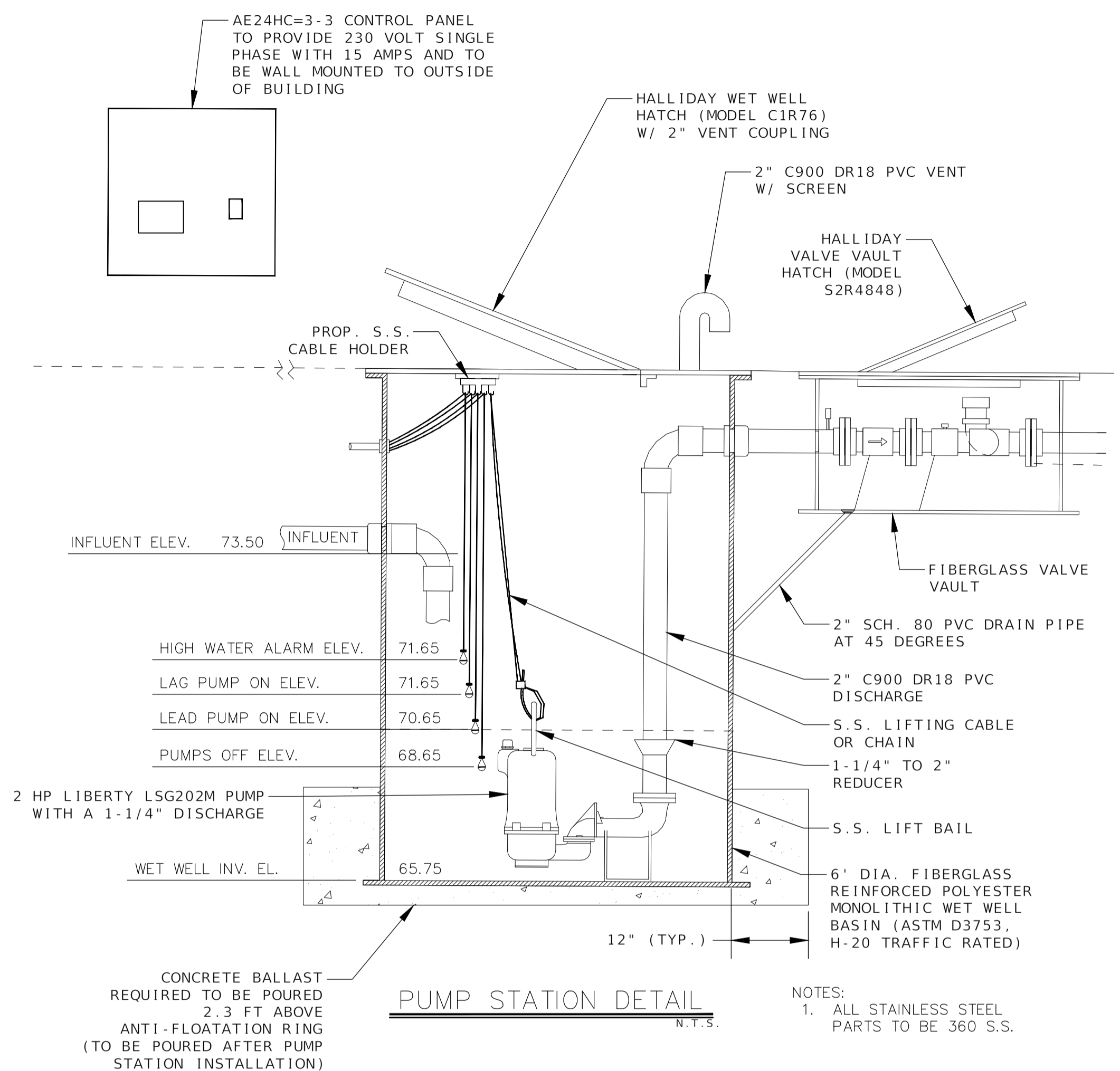
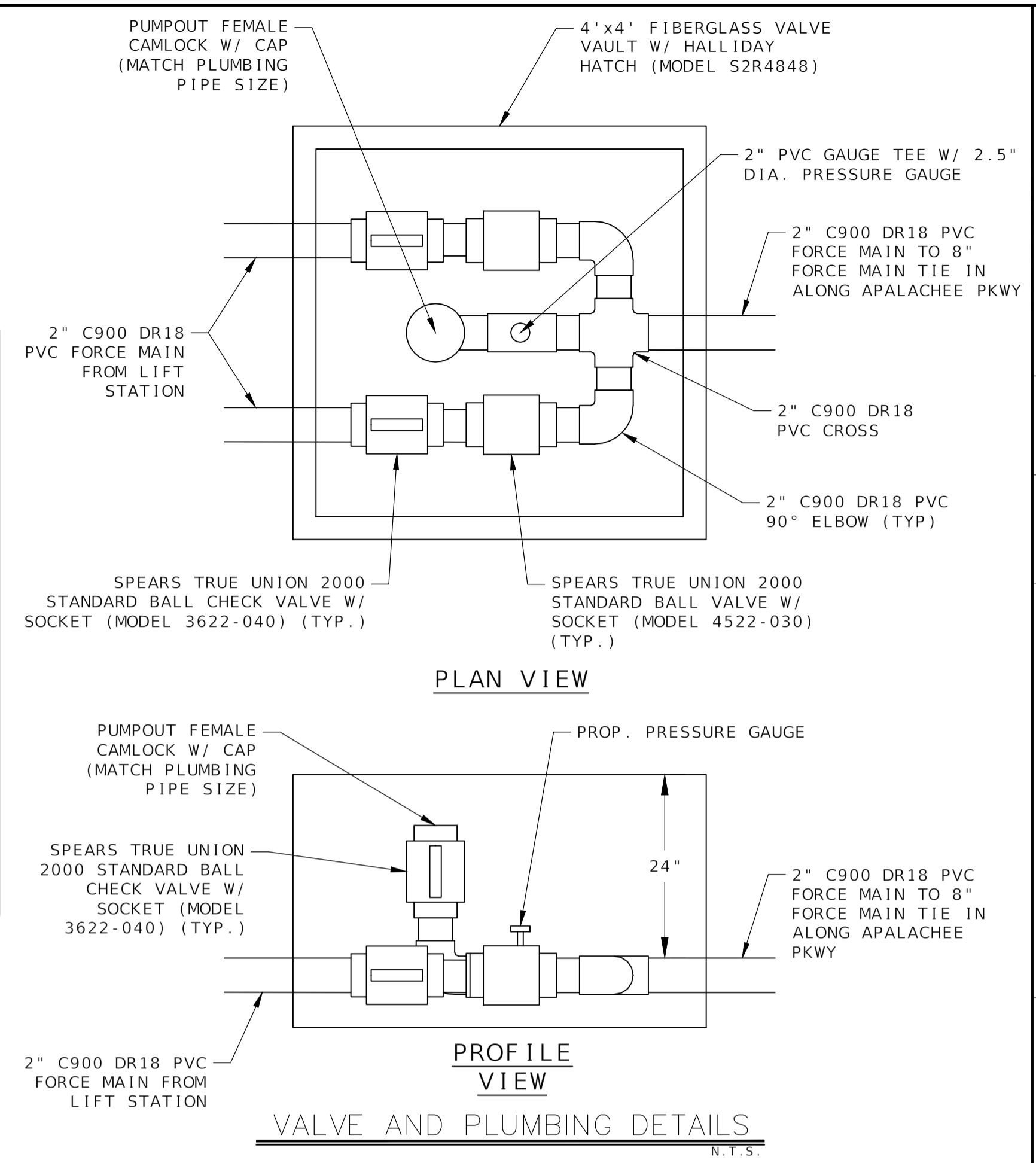
HORSEPOWER	2
RPM	3450
PHASE	1
VOLT	230
AMPS	15

**LIFT STATION DETAILS TABLE**

TOP OF LIFT STATION ELEV.	78.00 Ft
BATHROOM GRAVITY INVERT	73.50 Ft
EMERGENCY STORAGE DEPTH	3.15 Ft
HIGH LEVEL ALARM ELEV.	71.65 Ft
LAG PUMP ON ELEV.	71.65 Ft
LEAD PUMP ON ELEV.	70.65 Ft
BOTH PUMPS OFF ELEV.	68.65 Ft
BOTTOM OF LIFT STATION ELEV.	65.75 Ft
DEPTH OF LIFT STATION	12.25 Ft
DIAMETER OF LIFT STATION	6 Ft
PUMP RATE	22.5 GPM
TDH	86 Ft

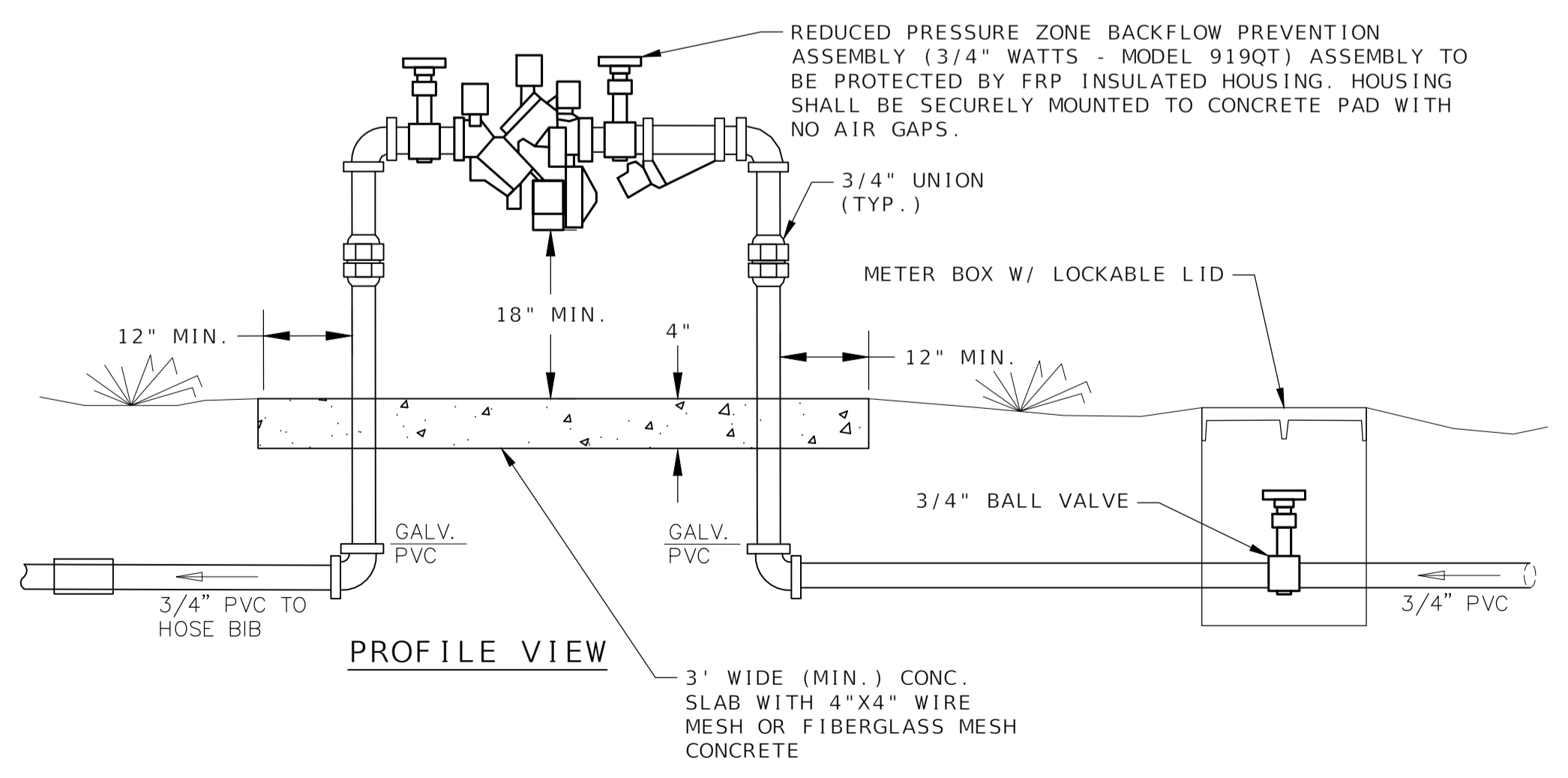


LIBERTY MODEL LSG202M PUMP CURVE



PUMP STATION DETAIL

NOTES:  
1. ALL STAINLESS STEEL PARTS TO BE 360 S.S.



PROFILE VIEW

RPZ DETAIL

REVISIONS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: MHB  
DRAWN BY: JMM  
CHECKED BY: BRL  
APPROVED BY: BRL

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
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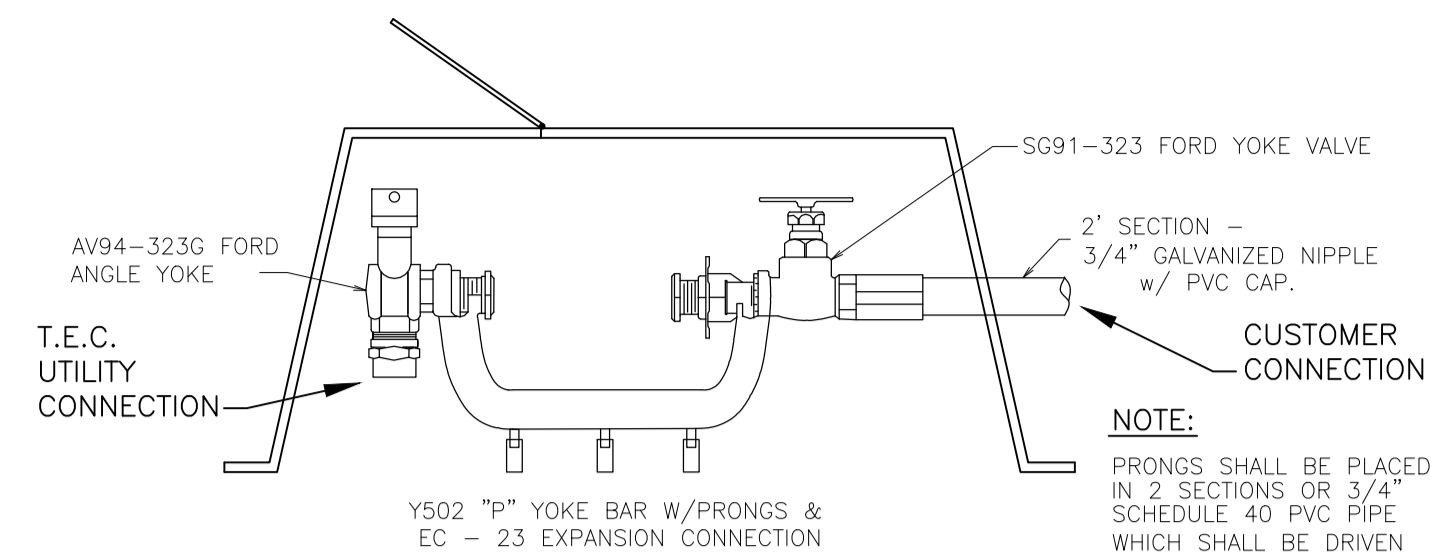
UTILITY DETAILS  
APALACHEE REGIONAL PARK  
CROSS COUNTRY VENUE  
INFRASTRUCTURE IMPROVEMENTS

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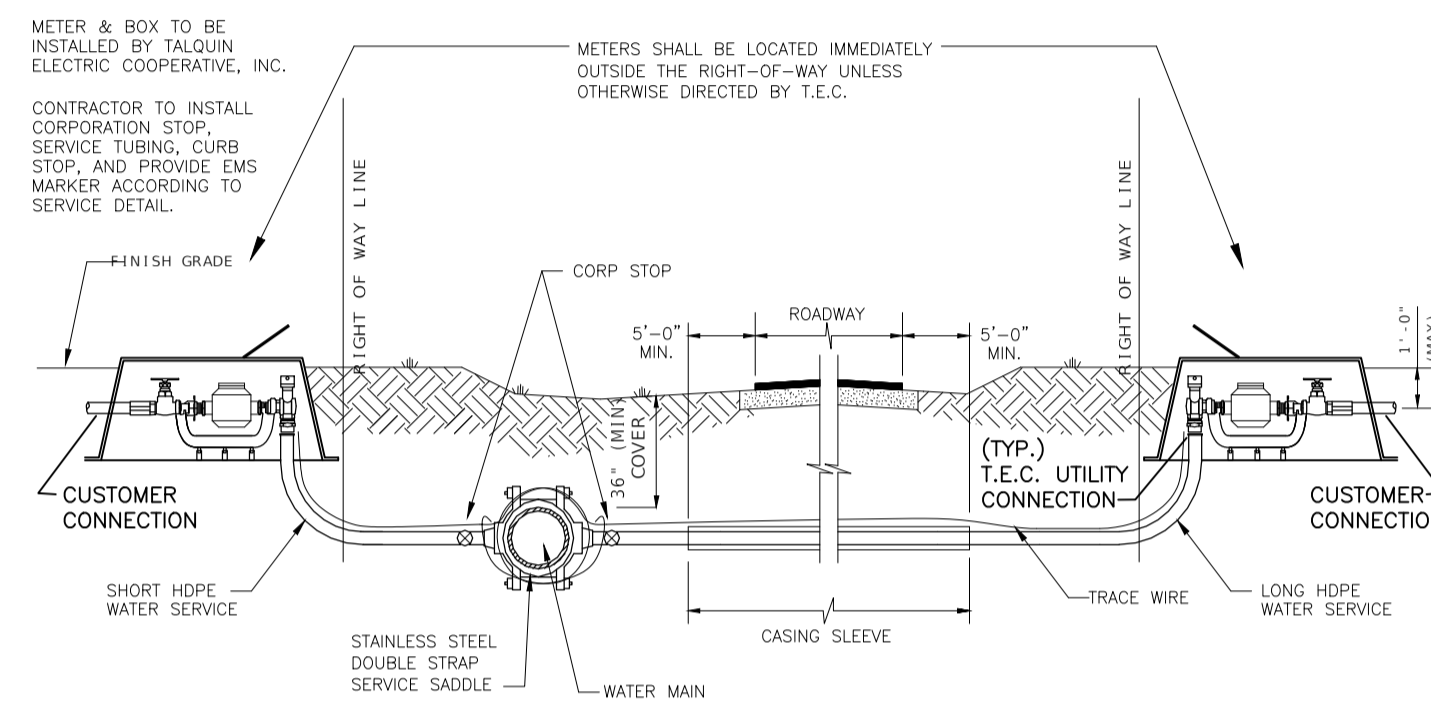
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SCALE: AS SHOWN  
DATE: 10/18/2019  
DRAWING: 20





**SINGLE YOKE BOX METER CONNECTION**  
N.T.S. W-8



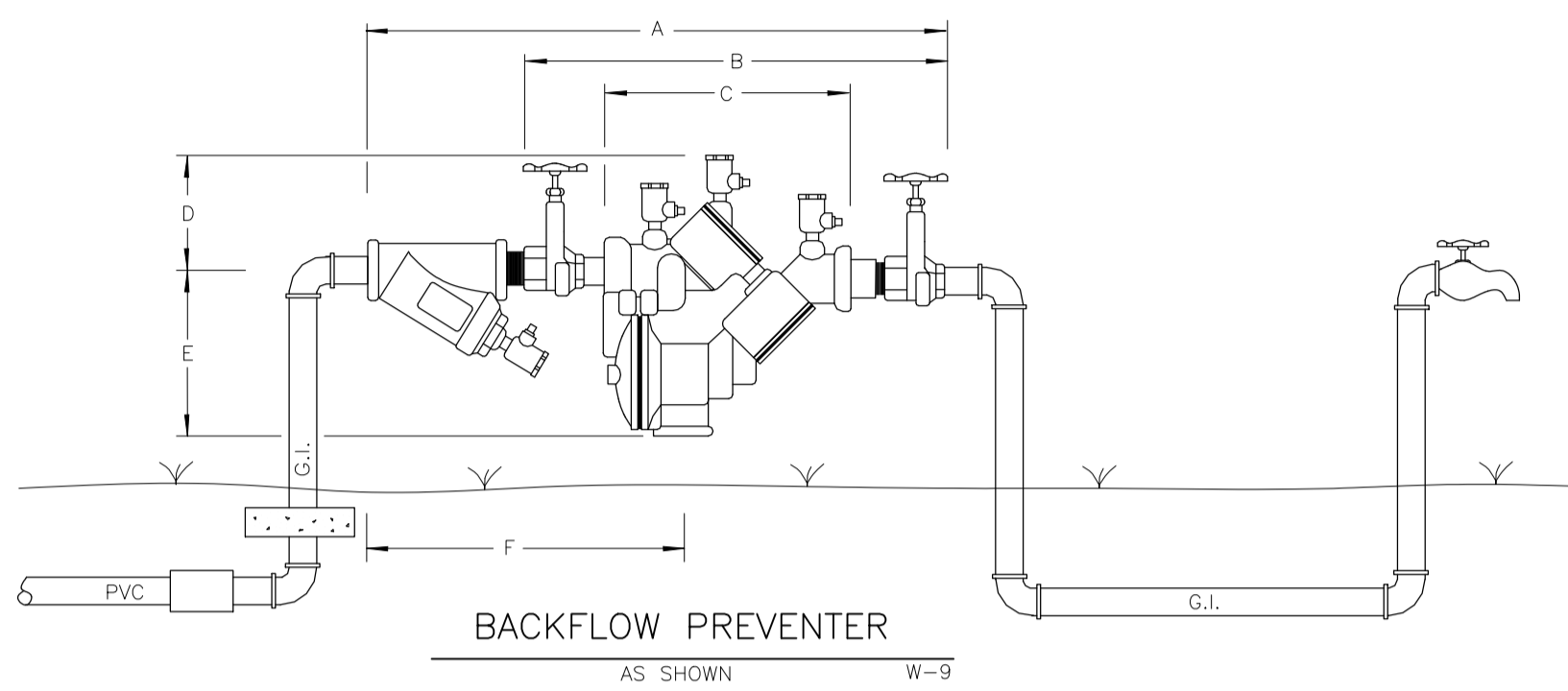
**TYPICAL HDPE WATER SERVICE PROFILE**  
N.T.S. W-21

**HDPE WATER SERVICE INSTALLATION NOTES:**

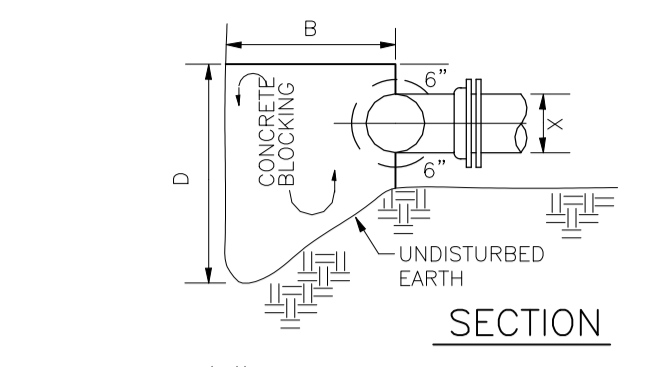
1. ALL HDPE LONG SERVICE INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE F.D.O.T. UTILITY ACCOMMODATIONS MANUAL AND/OR THE LOCAL COUNTY PUBLIC WORKS DEPT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. ALL RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE F.D.O.T. DESIGN STANDARDS AND THE UTILITIES ACCOMODATION MANUAL AND/OR THE LOCAL COUNTY PUBLIC WORKS DEPT.
5. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE A MINIMUM OF 18" ON CENTER.
6. ALL SERVICES REQUIRE 36" MINIMUM COVER. ALL LONG SERVICES REQUIRE 36" MIN. COVER UNDER ALL ROADS AND SWALES, AND MUST MAINTAIN MINIMUM SEPARATION BETWEEN OTHER UTILITIES.
7. 3/4" & 1" LONG SERVICES REQUIRE A 2" MINIMUM I.D. CASING PIPE. 1-1/2" & 2" LONG SERVICES REQUIRE 4" MINIMUM I.D. CASING PIPE.
8. CURB STOPS SHALL BE THE SAME SIZE AS THE SERVICE TUBING.
9. TRACE WIRE TO BE INSTALLED AS PER THIS DETAIL.

**H.D.P.E. WATER SERVICE DETAIL**  
N.T.S. W-21

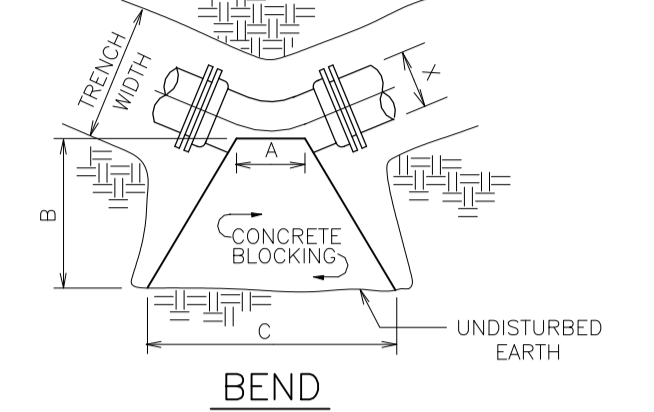
SIZE	DIMENSIONS (Inches)							Total weight (lbs)		
	A	B	C	D	E	F	G	Width Strainer	With Strainer	
3/4"	18	13	7 5/16	4	4 3/4	9 3/4	5 1/4	3 7/8	14	15 7/8
1"	19	13 1/2	7 5/16	4	4 3/4	11 1/2	5 1/2	3 7/8	15	17 1/2
1-1/4"	22 1/8	16 5/8	10 3/8	5	6 5/8	12 1/2	6	5 1/4	40	42 3/4
1-1/2"	23 5/16	16 7/8	10 3/8	5	6 5/8	13 1/2	6	5 1/4	40	44
2"	25 5/16	17 5/8	10 3/8	5	6 5/8	14 1/2	6 1/4	5 1/4	40	47 3/8



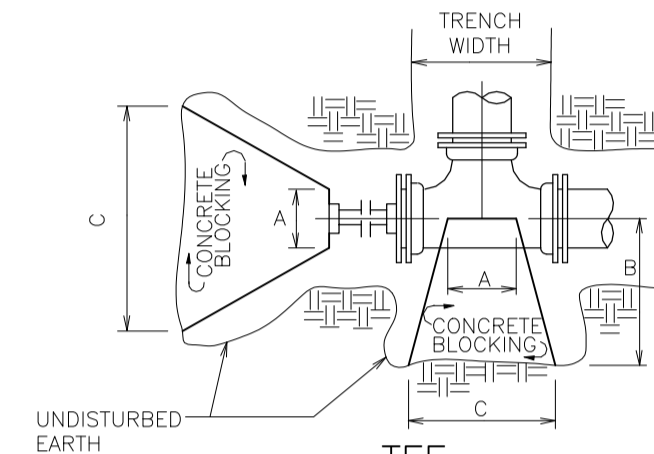
**BACKFLOW PREVENTER**  
AS SHOWN W-9



**SECTION**



**BEND**



**TEE**

**BLOCKING DETAIL FOR D.I. FITTINGS**  
N.T.S. W-10

CONCRETE BLOCKING DIMENSIONS					
X	A	B	C	D	CU. YD.
TEES - 8" RUN					
12"	14"	2'-6"	3'-9"	3'-0"	0.69
10"	12"	2'-5"	2'-10"	2'-10"	0.48
8"	10"	2'-4"	1'-9"	2'-8"	0.32
6"	8"	2'-3"	1'-3"	2'-6"	0.19
4"	6"	2'-0"	1'-0"	2'-0"	0.07
90° BENDS					
12"	12"	2'-8"	5'-4"	3'-0"	0.91
10"	10"	2'-6"	4'-0"	2'-10"	0.46
8"	8"	2'-4"	2'-8"	2'-8"	0.38
6"	6"	2'-3"	1'-8"	2'-6"	0.22
4"	4"	2'-2"	8"	2'-2"	0.09
45° BENDS					
12"	6"	2'-6"	2'-10"	3'-0"	0.47
10"	5"	2'-5"	2'-2"	2'-10"	0.32
8"	4"	2'-4"	1'-3"	2'-8"	0.21
6"	3"	2'-3"	9"	2'-6"	0.11
4"	2"	2'-0"	6"	2'-2"	0.01
22-1/2° BENDS					
12"	6"	2'-6"	1'-6"	3'-0"	0.27
10"	5"	2'-5"	1'-1"	2'-10"	0.19
8"	4"	2'-4"	9"	2'-8"	0.12
6"	3"	2'-3"	6"	2'-6"	0.07
4"	2"	2'-0"	4"	2'-2"	0.02
PLUGS					
12"	12"	2'-6"	3'-10"	3'-0"	0.66
10"	12"	2'-5"	2'-10"	2'-10"	0.48
8"	12"	2'-4"	1'-10"	2'-8"	0.33
6"	12"	2'-3"	1'-2"	2'-6"	0.22
4"	12"	2'-2"	1'-0"	2'-4"	0.11

NO.	DATE	DESCRIPTION	BY	MHB	JMM	BRL	BRL

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
2280 MICCOSUKEE ROAD  
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**UTILITY DETAILS**  
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**15-0513.004**  
SCALE:  
**AS SHOWN**  
DATE:  
**10/18/2019**  
DRAWING:  
**22**

**NOTES**

W-1A & W-1B

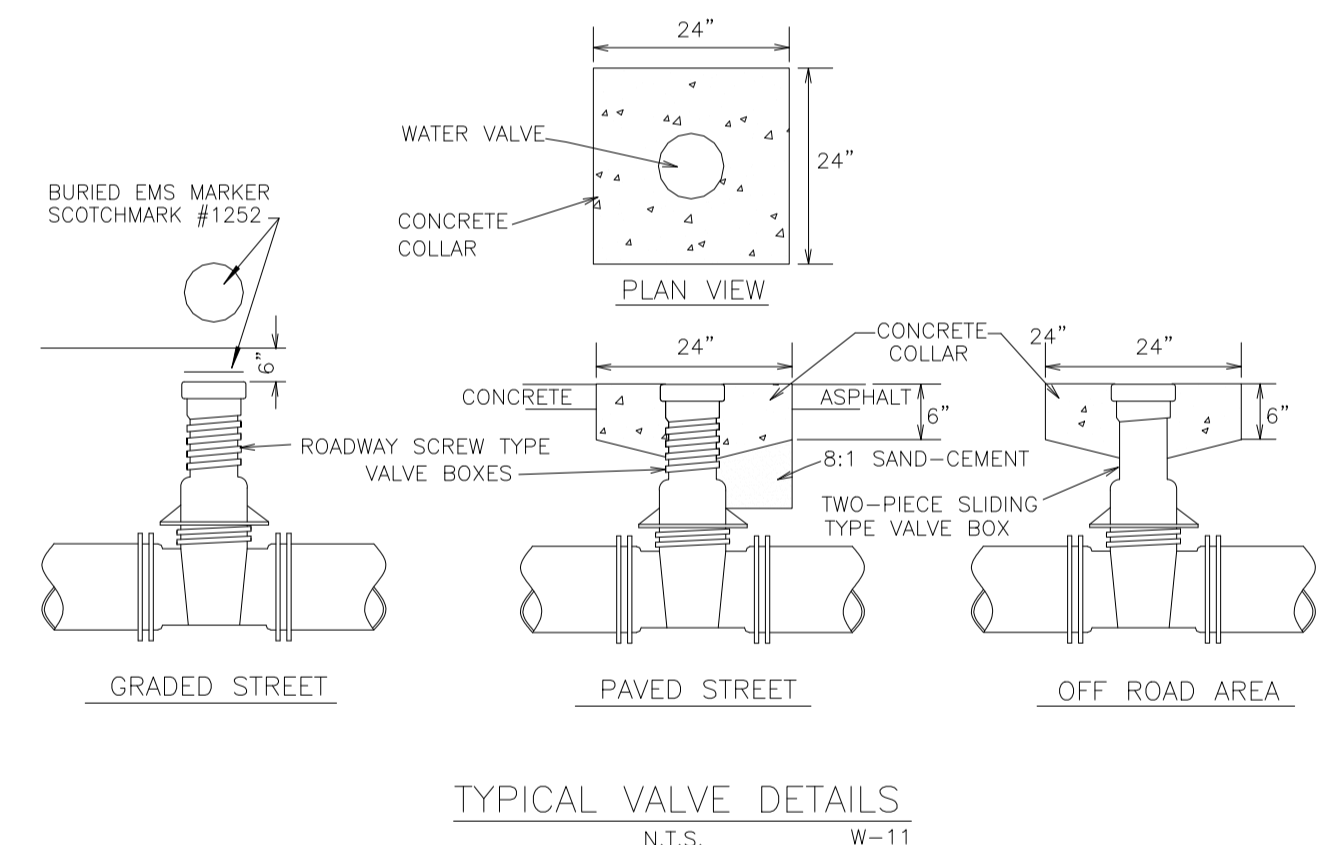
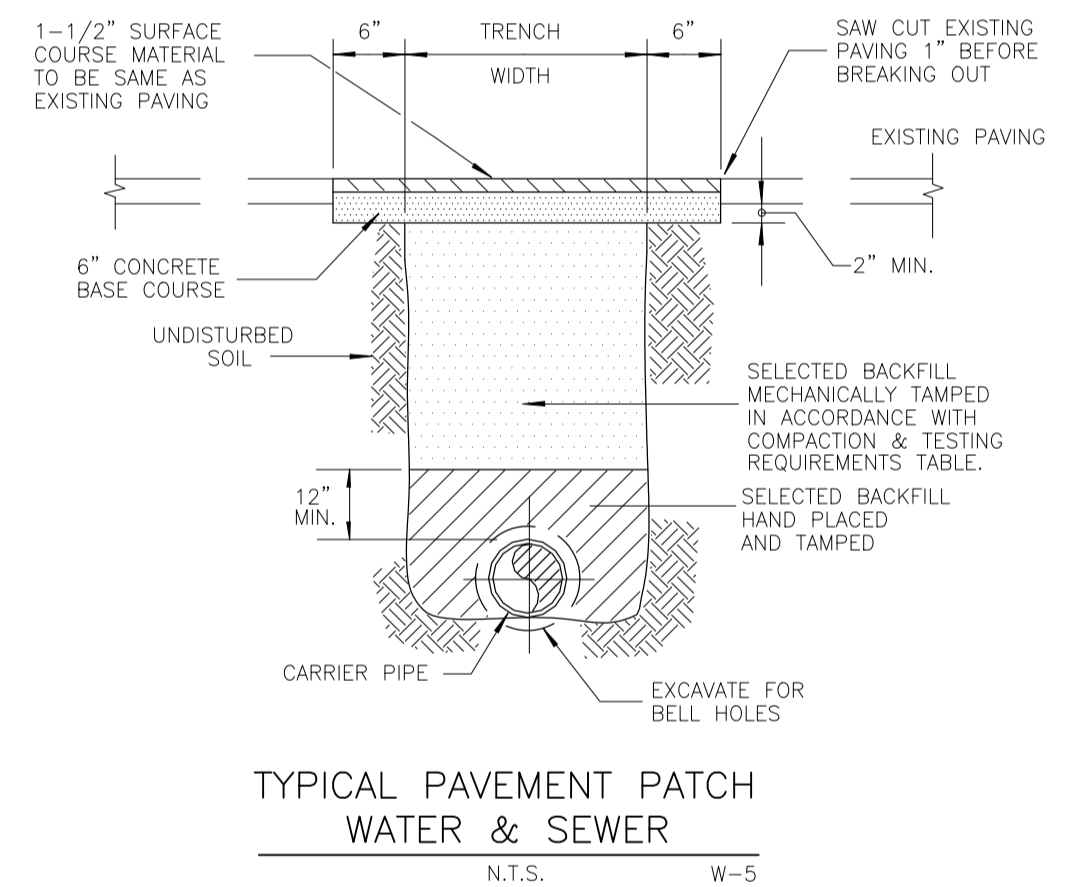
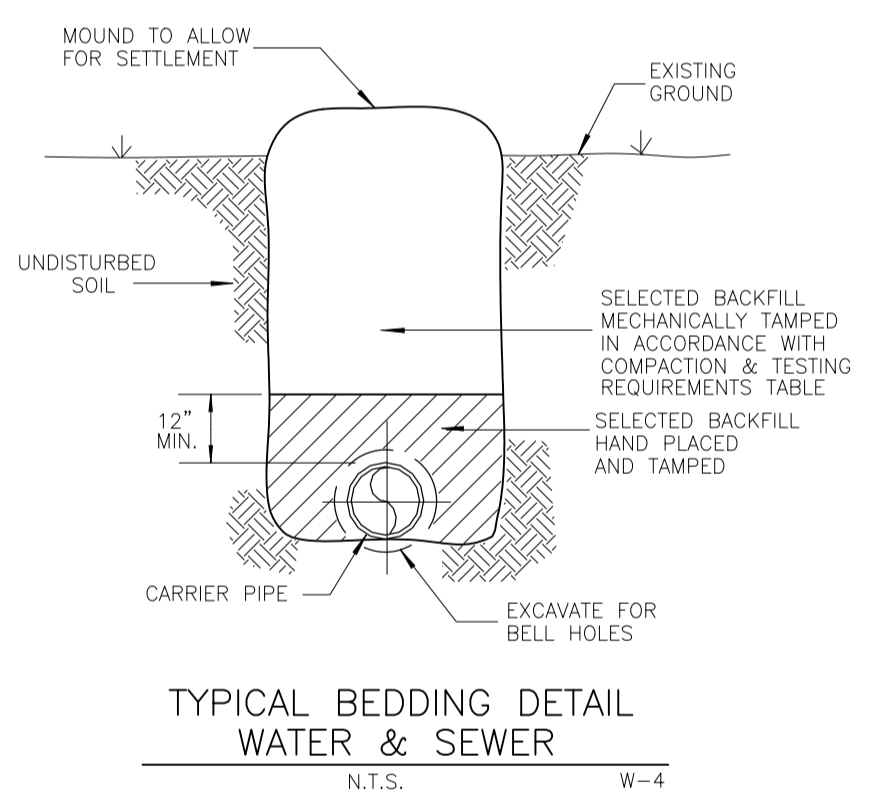
- 1.) ALL WATER MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND TEC SPECIFICATIONS.
  - 2.) WATER MAIN SHALL BE INSTALLED ON NORTH OR EAST ROAD CENTERLINE AT A DISTANCE TO INSURE MAIN IS A MINIMUM OF 6" FROM EDGE OF PAVEMENT OR IN ACCORDANCE WITH COUNTY AND STATE RECOMMENDED GUIDELINES FOR UTILITY PLACEMENT.
  - 3.) ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
  - 4.) ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS.
  - 5.) MATERIALS APPROVED FOR WATER MAIN CONSTRUCTION INCLUDES:  
A. PVC CLASS 900 DR 18  
B. 6" THRU 16" CAST IRON, CLASS 22 (AWWA C-601), DUCTILE IRON, CLASS 50 (AWWA C-151).
  - 6.) ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
  - 7.) SERVICE TAPS SHALL NOT BE LESS THAN 7/8" (OPENING CUT) IN SADDLE CLAMP.
  - 8.) WATER SERVICE TUBING SHALL HDPE DR-9 MEETING ASTM D3350, RATED AT 250 P.S.I. WATER SERVICE TUBING SHALL BE BLUE ICE TUBING AS MANUFACTURED BY CHARTER PLASTICS, INC. OR APPROVED EQUAL.
  - 9.) FLUSH PIPE DISCHARGE SHALL BE OPPOSITE DIRECTION OF VALVE AND AND PIPE SHALL EXTEND 20" TO 30" ABOVE GROUND LEVEL.
  - 10.) MAINS SHALL HAVE A MINIMUM OF 36" COVER, IN DITCH BOTTOMS SERVICE LINES SHALL HAVE A MINIMUM OF 30" OF COVER.
  - 11.) ALL WATER MAINS AND SERVICE LINES SHALL HAVE 12 GAUGE THIN INSULATED, SOLID COPPER WIRE COILED AROUND ALL WATER MAINS AND SERVICE LINES. ALL WIRE SHALL BE JOINED BY A COMMON BOND USING "BUTT SPICE" WHERE A SERVICE WIRE IS BEING BONDED TO A MAIN WIRE, THE BOND (CONNECTION) SHALL BE MADE WITH A "T" BUTT SPICE. IN THE EVENT THE "T" BUTT SPICE IS NOT AVAILABLE, THE BOND SHALL BE MADE BY TIGHTLY WRAPPING THE SERVICE LINE WIRE TO THE MAIN WIRE WITH A MINIMUM OF TEN WRAPS. WIRE SPLICES SHALL BE WRAPPED WITH SCOTCH E-Z SEAL NO. 2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING. THE SERVICE LINE WIRE SHALL EXTEND 12" INTO THE METER BOX.
  - 12.) "AS BUILT PLANS" SHALL INDICATE LOCATIONS OF ALL SERVICES WITH RESPECT TO LOT CORNERS, LOCATIONS AND TYPES OF ALL FITTINGS, LOCATION OF ALL VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
  - 13.) ALL STUB-OUTS SHALL HAVE WATER EMS MARKERS INSTALLED 18" BELOW GROUND LEVEL.
  - 14.) ALL MAINS AND SERVICE LINES SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA C-601 UNDER SUPERVISION OF TEC INSPECTORS.
  - 15.) COMPACTING REQUIREMENTS: REFERENCE TEC'S, COUNTY, AND STATE SPECIFICATIONS.
  - 16.) ALL SERVICES SHALL BE INSTALLED IN THE APPROXIMATE CENTER OF EACH LOT.
  - 17.) ALL PIPE USE IN WATER DISTRIBUTION SYSTEMS SHALL BE N.S.F. APPROVED FOR POTABLE WATER USE.
  - 18.) THE TWO INCH STAND PIPE SHALL BE THE #77 MANGLARD HYDRANT BY KUPFERLE FOUNDRY.
  - 19.) A SET OF PLANS WITH TALQUIN STAMP OF APPROVAL SHALL BE LOCATED ON JOB SITE DURING CONSTRUCTION.
  - 20.) ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE.
  - 21.) BEFORE ANY CONSTRUCTION BEGINS "SHOP DRAWINGS" SHALL BE APPROVED BY TEC.
  - 22.) CONSTRUCTION OF PIPE ALONG AN ARC SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S INSTALLATION GUIDELINES. THE PIPE SHALL BE CURVED UNIFORMLY THROUGHOUT ITS LENGTH AND NO JOINT DEFLECTION WILL BE ALLOWED. THE MAXIMUM PIPE RADIUS BASED ON J-M BLUE BRUTE AND RING TITE PIPE SHALL BE AS FOLLOWS:  
12" - 300 FEET  
10" - 250 FEET  
8" - 200 FEET  
6" - 150 FEET  
4" - 100 FEET  
2" - 25 FEET
  - 23.) FOR FURTHER DETAILS SEE TEC SPECIFICATIONS.
- NOTE: METER BOX SHALL BE TYPE 1419BP5PGM - TWM15 UNIT/GREEN TALQUIN WATER METER FRAME TO CARRY NAME AS MANUFACTURED BY CARSON INDUSTRIES, INC. THE LID SHALL INCLUDE A METAL READER EYE AND BE PRESSURE RATED AT 3500 POUNDS. NO EXCEPTIONS.

**LOCATION OF PUBLIC WATER SYSEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314**

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)			
Vacuum Sanitary Sewer			
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)			
On-Site Sewage Treatment & Disposal System	10 feet minimum	----	----

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.  
 (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.  
 (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.  
 (4) Reclaimed water not regulated uin Part III of Chapter 62-610, F.A.C.  
**NOTE: MINIMUM SEPARATION DIMENSIONS MUST BE APPROVED BY TALQUIN.**

**SEPARATION DETAIL**  
N.T.S.



**COMPACTION & TESTING REQUIREMENTS**

W-12

**COMPACTION OF BACKFILL**

- A. BACKFILL PLACED IN TRENCHES WHICH ARE UNDER THE PAVEMENT, OR WITHIN 4 FEET OF THE EDGE OF PAVING OR WITHIN 2 FEET OF THE BACK OF THE CURBLINES OR WITHIN 2:1 SLOPE OF THESE LIMITS, SHALL EACH BE COMPACTED IN ACCORDANCE WITH THE FOLLOWING:
1. ROADWAY BASE AND SUB-BASE TO 98% AASHTO T-180 (MODIFIED PROCTOR)
  2. DEPTH BELOW SUBGRADE:  
0 - 3' 100% AASHTO T-99 STANDARD PROCTOR  
3' - 10' 98% AASHTO T-99 STANDARD PROCTOR  
10' + 95% AASHTO T-99 STANDARD PROCTOR
- B. THE ENTIRE DEPTH OF BACKFILL PLACED IN TRENCHES THAT ARE OUTSIDE THE AREAS DESCRIBED IN THE ABOVE SCHEDULE MAY BE COMPACTED TO A DENSITY WHICH MATCHES THAT OF UNDISTURBED MATERIALS LOCATED IN IMMEDIATELY ADJACENT AREAS.

**TESTING**

TEST	STANDARD	FREQUENCY
A. PROCTOR LAB DENSITY	AASHTO T-99, T-180, ASTM D 698, ASTM D 1557	ONE PER MATERIAL TYPE
B. DENSITY (INSITU) ALONG PIPELINE	ASTM D2922, ASTM D1556	ONE PER EVERY 12-INCH DEPTH AND 400 LF OF PIPELINE OR BETWEEN STRUCTURES
C. DENSITY (INSITU) AT SERVICES	ASTM D2922, ASTM D1556	1 FOR EACH 12" DEPTH OF EACH SERVICE
D. DENSITY (INSITU) AROUND	ASTM D2922, ASTM D1556	1 FOR EACH 12" DEPTH OF STRUCTURE

NO.	DATE	DESCRIPTION	BY	
				REVISIONS

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**

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TALLAHASSEE, FL 32308  
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**UTILITY DETAILS**

**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

**DRMP**

ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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BENJAMIN LENNON, P.E. Florida Engineer #78674
PROJECT NO.: <b>15-0513.004</b>
SCALE: <b>AS SHOWN</b>
DATE: <b>10/18/2019</b>
DRAWING: <b>23</b>

### SEEDING

#### CONSTRUCTION SPECIFICATIONS:

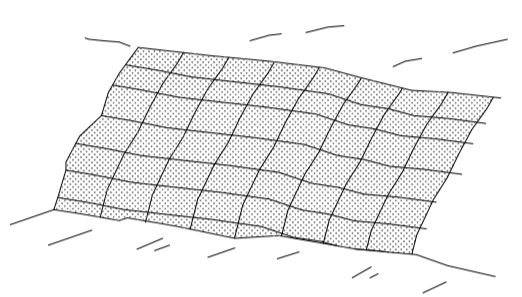
**TIMING:**  
APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT FOR 1 YEAR OR MORE. APPLY PERMANENT SEEDING WHEN NO FURTHER DISTURBANCES ARE PLANNED. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST. APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED. USE DORMANT SEEDING FOR LATE FALL OR WINTER SEEDING SCHEDULES.

**SEED MIXES:**  
USE SEEDS APPROPRIATE TO THE SEASON AND SITE CONDITIONS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALISTS FOR SEED MIX. USE A SEED BLEND TO INCLUDE ANNUALS, PERENNIALS AND LEGUMES. USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 80%. WHEN PLS IS BELOW 80% ADJUST RATES ACCORDINGLY.

**SITE PREPARATION:**  
BRING THE PLANTING AREA TO FINAL GRADE AND INSTALL THE NECESSARY EROSION CONTROL PRACTICES. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDING AREA. CONDUCT SOIL TEST TO DETERMINE PH AND NUTRIENT CONTENT. ROUGHEN THE SOIL BY HARROWING, TRACKING, GROOVING OR FURROWING. APPLY AMENDMENTS AS NEEDED TO ADJUST PH TO 6.0-7.5. INCORPORATE THESE AMENDMENTS INTO THE SOIL. PREPARE A 3-5 INCH DEEP SEEDBED, WITH THE TOP 3-4 INCHES (76-102 MM) CONSISTING OF TOPSOIL. THE SEEDBED SHOULD BE FIRM BUT NOT COMPACT. THE TOP THREE INCHES OF SOIL SHOULD BE LOOSE, MOIST AND FREE OF LARGE CLODS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN SEASONABLY CLOSE CONFORMITY TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

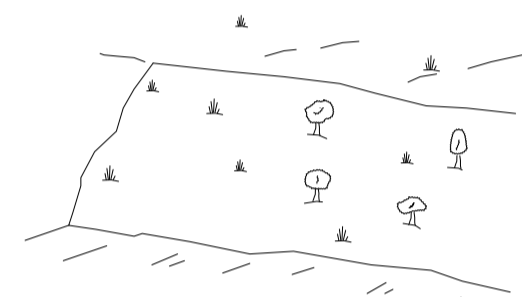
**PLANTING:**  
SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN IDLE LONG ENOUGH FOR THE SOIL TO BECOME COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITION THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE FACE OF THE SLOPE. ALWAYS APPLY SEED BEFORE APPLYING MULCH. APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLONE SEEDERS, MECHANICAL DRILLS, OR HYDROSEEDER SO THE SEED IS APPLIED UNIFORMLY ON THE SITE. BROADCAST SEED SHOULD BE INCORPORATED INTO THE SOIL BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY COMPACTED TO PROVIDE GOOD SEED-SOIL CONTACT. APPLY FERTILIZER AS SPECIFIED. APPLY MULCH OR EROSION CONTROL BLANKET, AS SPECIFIED, OVER THE SEEDED AREAS.

**INSPECTION AND MAINTENANCE:**  
NEWLY SEEDED AREAS NEED TO BE INSPECTED FREQUENTLY TO ENSURE THE GRASS IS GROWING. IF THE SEEDED AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORMWATER MEASURES MAY BE NEEDED. SPOT SEEDING CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DID NOT GROW PROPERLY.



A PERMANENT VEGETATION USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

DISTURBED AREA STABILIZATION (WITH SODDING)



ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD OR LEGUMES ON DISTURBED AREAS. USE PENSACOLA BAHIA FOR PERMANENT COVER. REFER TO SHEET C1.7.

DISTURBED AREA STABILIZATION (WITH PERM VEGETATION)

### TEMPORARY SEEDING

(TO BE USED DURING CONSTRUCTION TO STABILIZE SOIL AND REDUCE EROSION)

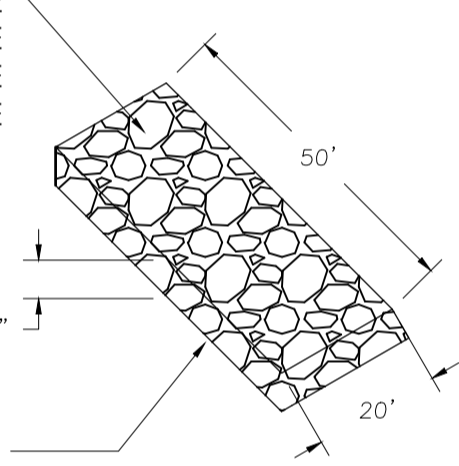
PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS			
SPECIES	BROADCAST Rates per PLS per 1000 SF	RESOURCE (Darker shades indicate optimum rates, and lighter shades indicate permissible but marginal rates.)	REMARKS
MILLET, BROWNTOP (Panicum lasiocarpum)	ALONE ..... 40 lbs. 0.9 lb. IN MIXTURES ..... 10 lbs. 0.2 lb.	MOUNTAINS SOUTHERN Piedmont SOUTHERN Coastal Plain	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEED AT HIGH RATES.
RYE (Secale cereale)	ALONE ..... 3 bu. (168 lbs.) IN MIXTURES ..... 1 1/2 bu. (78 lbs.)	MOUNTAINS SOUTHERN Piedmont SOUTHERN Coastal Plain	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER-HARDY
RYEGRASS, ANNUAL (Lolium temulentum)	ALONE ..... 40 lbs. 0.9 lb.	MOUNTAINS SOUTHERN Piedmont SOUTHERN Coastal Plain	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS UNUSUAL TO BE USED IN MIXTURES

### PERMANENT SEEDING

(TO BE USED AFTER FINAL GRADING FOR PERMANENT SEEDING) (FOR DISTURBED AREAS NOT COVERED IN LANDSCAPE PLANS)

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER OR COMPANION CROPS			
SPECIES	BROADCAST Rates per PLS per 1000 SF	RESOURCE (Darker shades indicate optimum rates, and lighter shades indicate permissible but marginal rates.)	REMARKS
BAHIA GRASS (Hulled Seed)	ALONE ..... 10 lbs. 0.2 lb. WITH OTHER PERENNIALS ..... 6 lbs. 0.1 lb.	SOUTHERN Piedmont SOUTHERN Coastal Plain	1,787,000 SEED PER LB QUICK COVER LOW GROWING AND SOD FORMING FULL SUN GOOD FOR ATHLETIC FIELDS
BAHIA GRASS (WITH TEMPORARY COVER)	ALONE ..... 10 lbs. 0.2 lb. WITH OTHER PERENNIALS ..... 6 lbs. 0.1 lb.	SOUTHERN Piedmont SOUTHERN Coastal Plain	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE

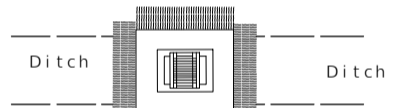
N.S.A. R-2 #1 STONE COARSE AGGREGATE



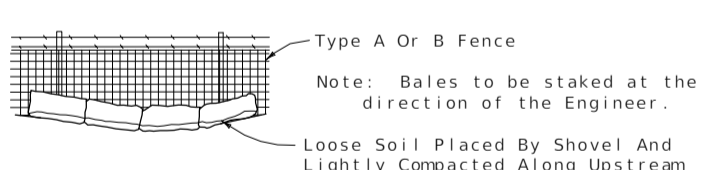
GEOTEXTILE UNDERLINER

NOTE: SEE PLANS FOR DIMENSIONS.

### CONSTRUCTION ENTRANCE DETAIL

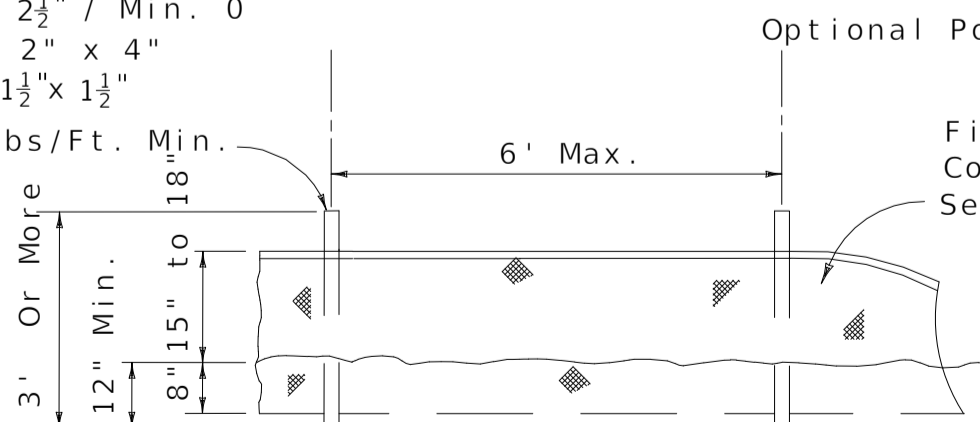


DITCH BOTTOM INLET  
Anchor Bales With 2' x 2' x 4' Stakes Per Bale.  
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

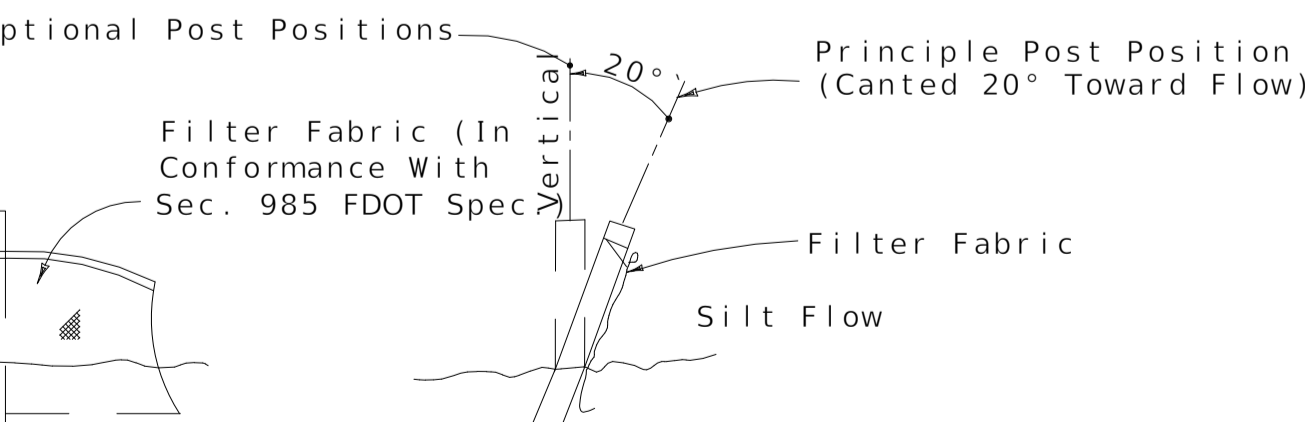


BALES BACKED BY FENCE

Post Options: Wood 2 1/2" / Min. 0  
Wood 2" x 4"  
Oak 1 1/2" x 1 1/2"



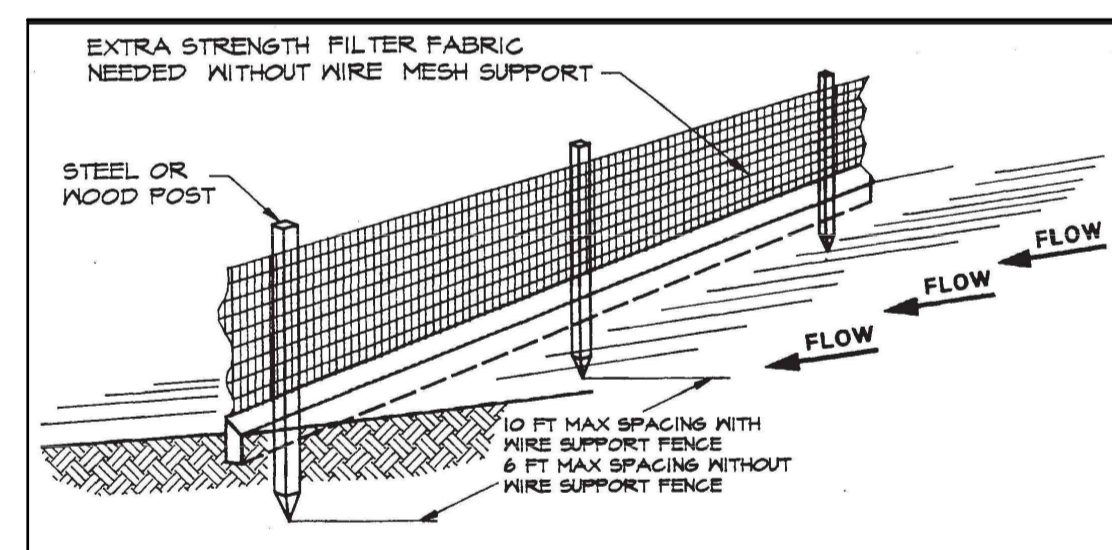
ELEVATION



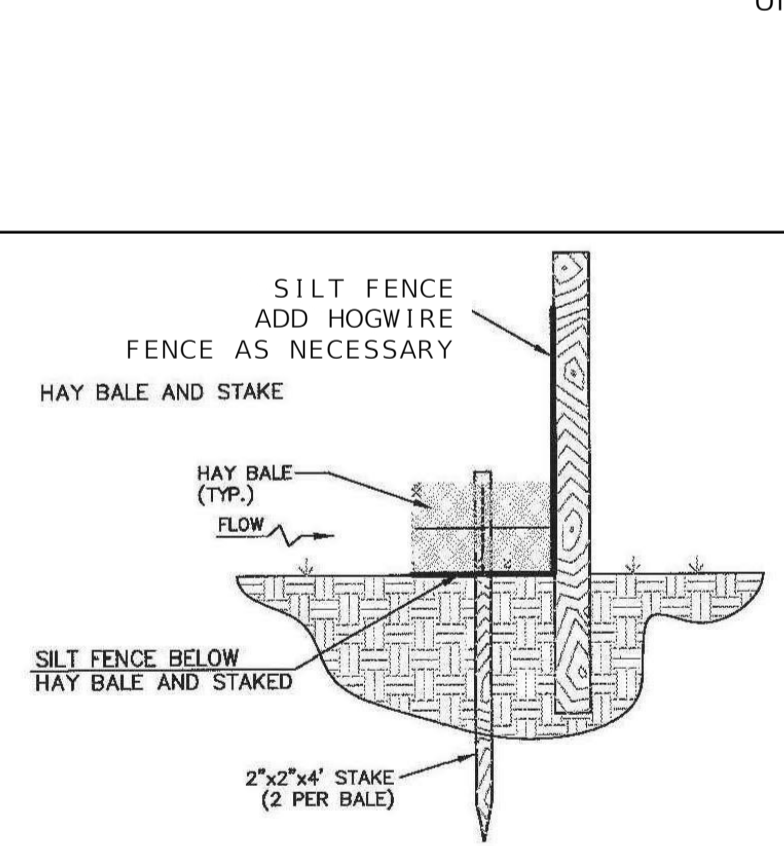
SECTION

Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

### SILT FENCE



STANDARD DETAIL  
TRENCH WITH NATIVE BACKFILL



ALTERNATE DETAIL  
TRENCH WITH GRAVEL

**NOTE:**  
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.  
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.  
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE FLOW EFFICIENCY.

DETAILS FROM FLORIDA EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, FDP, JULY 2008. SEE THIS MANUAL FOR ADDITIONAL INFORMATION ON SILT FENCE TYPE, INSTALLATION, MAINTENANCE, FABRIC, ETC.

### EROSION CONTROL GENERAL NOTES

- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
- EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
- TEMPORARY GRASSING IS NOT TO BE LESS THAN TWO (2) DAYS AFTER COMPLETION OF ANY GRADING ACTIVITIES.
- ALL DRAINAGE STRUCTURES TO BE EROSION PROOFED (WITH RIPRAP AS PER DETAIL ON THIS SHEET) ALL RIPRAP SHALL BE TYPE 1 STONE PLAIN IN ACCORDANCE WITH THE LATEST EDITION OF FOOT STANDARD SPECIFICATIONS.
- ALL HEAD WALLS ARE TO HAVE STORM DRAIN OUTLET PROTECTION AND SILT TRAP DITCHES.
- SILT FENCE MUST MEET THE REQUIREMENTS OF FOOT, STANDARD SPECIFICATIONS, LATEST EDITION.
- PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL FOLLOWING FINAL GRADING.
- NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
- EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
- CONTRACTOR TO COMPLETELY SECURE FROM EROSION ANY STOCK PILE OF EARTHEN MATERIALS. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY MATERIAL STOCKPILE LOCATIONS PRIOR TO COMMENCING WORK. THE LOCATIONS WILL BE CONFIRMED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE EPC PLANS WILL BE "REDLINED" WITH APPROPRIATE BMP'S TO REFLECT THE LOCATIONS.
- EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FOOT.
- ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, COUNTY REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
- MAXIMUM CUT OR FILL SLOPES IS 3H:1V.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
- DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES AND ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
- ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
- THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
- NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ADEQUATE ROOM HAS BEEN PROVIDED WITHIN THE PROJECT LIMITS FOR REMOVAL OF BMP'S. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE/BEYOND THE LIMITS OF CONSTRUCTION/DISTURBANCE TO REMOVE BMP'S.
- CONTRACTOR IS REQUIRED TO OBTAIN NPDES PERMIT OR EXEMPTION CERTIFICATION FOR THE CONSTRUCTION.

NO.	DATE	DESCRIPTION	BY	REVISIONS			
				MHB	JMM	BRL	BRL
DESIGNED BY							
DRAWN BY							
CHECKED BY							
APPROVED BY							

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
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TALLAHASSEE, FL 32308  
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**EROSION CONTROL DETAILS**  
APALACHEE REGIONAL PARK  
CROSS COUNTRY VENUE  
INFRASTRUCTURE IMPROVEMENTS

**DRMP**  
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
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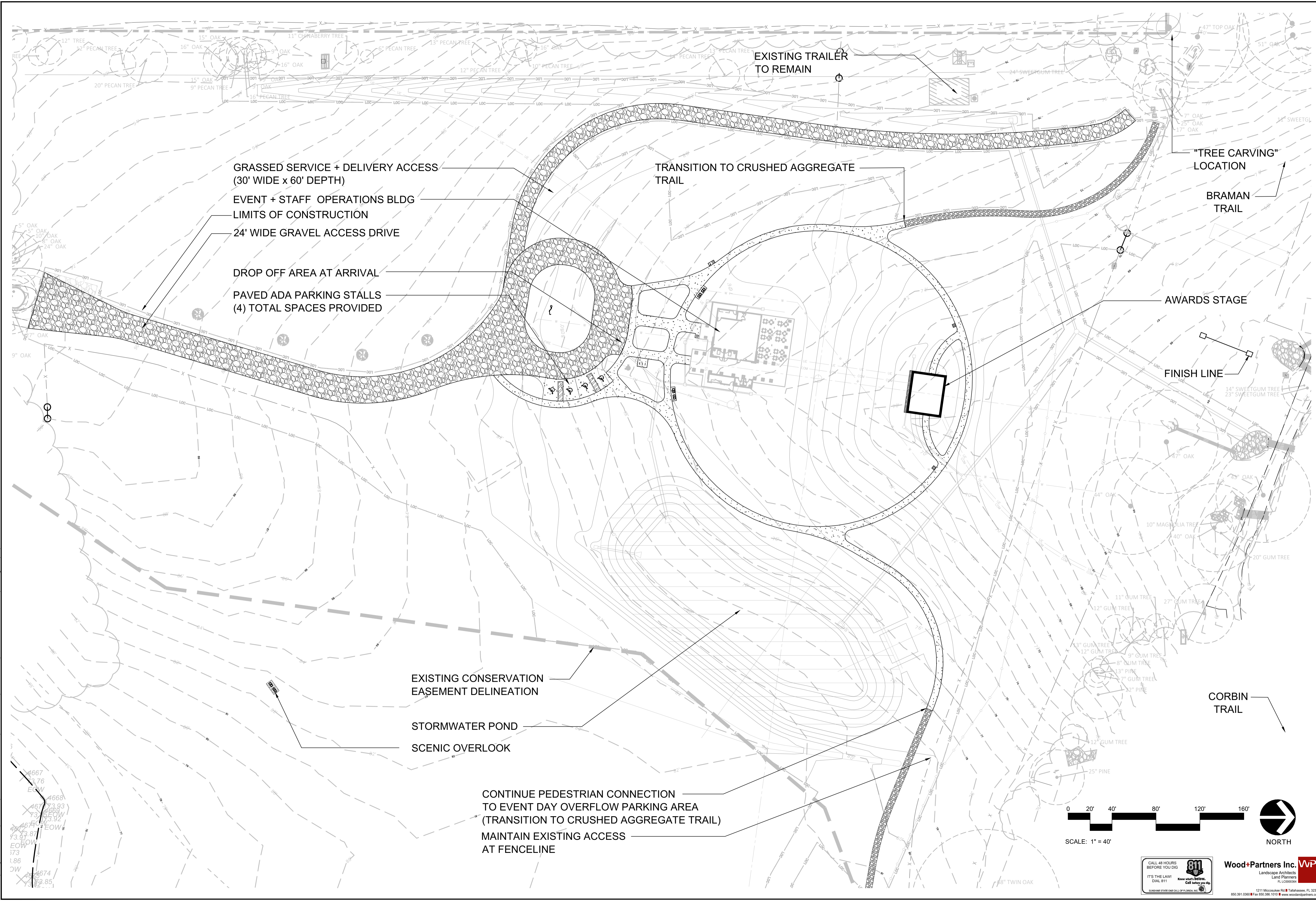
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BENJAMIN LENNON, P.E.  
Florida Engineer #78674  
PROJECT NO.:  
15-0513.004

SCALE:  
AS SHOWN

DATE:  
10/18/2019

DRAWING:  
24



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NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
MHB	JMM	ERL	BRL

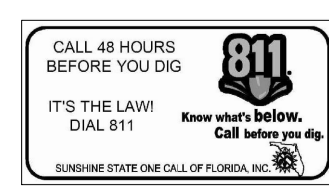
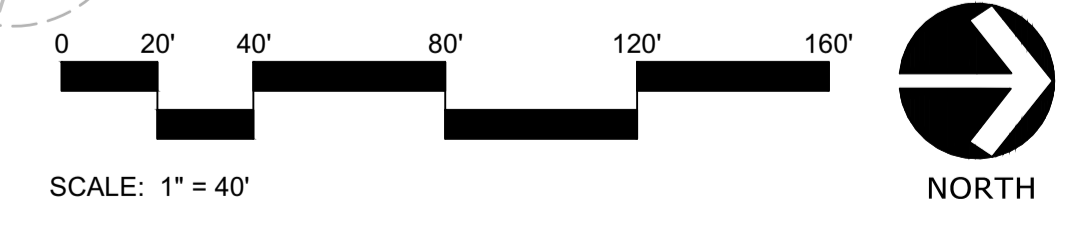
**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
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**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

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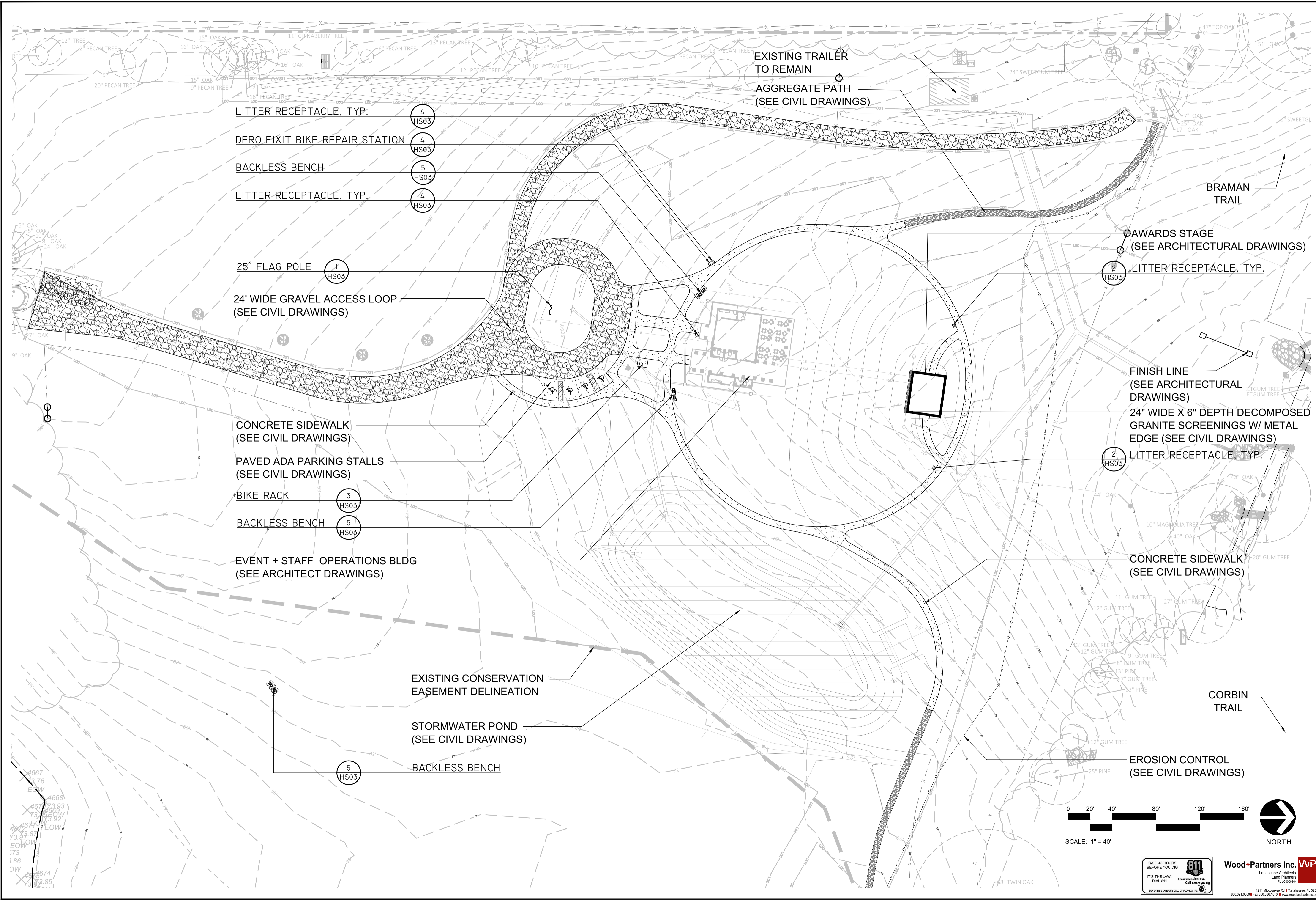
MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 666878  
 09/19/2019

SITE PLAN
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 9/19/2019
DRAWING: HS01



**Wood+Partners Inc. WPI**  
 Landscape Architects  
 Land Planners  
 FL CC000584  
 1211 Miccosukee Pkwy Tallahassee, FL 32308  
 850.361.0360 Fax 850.286.1018 www.woodpartners.com





LITTER RECEPTACLE, TYP. (4) HS03

DERO FIXIT BIKE REPAIR STATION (4) HS03

BACKLESS BENCH (5) HS03

LITTER RECEPTACLE, TYP. (4) HS03

25' FLAG POLE (1) HS03

24' WIDE GRAVEL ACCESS LOOP (SEE CIVIL DRAWINGS)

CONCRETE SIDEWALK (SEE CIVIL DRAWINGS)

PAVED ADA PARKING STALLS (SEE CIVIL DRAWINGS)

BIKE RACK (3) HS03

BACKLESS BENCH (5) HS03

EVENT + STAFF OPERATIONS BLDG (SEE ARCHITECT DRAWINGS)

EXISTING CONSERVATION EASEMENT DELINEATION

STORMWATER POND (SEE CIVIL DRAWINGS)

BACKLESS BENCH (5) HS03

EXISTING TRAILER TO REMAIN  
AGGREGATE PATH (SEE CIVIL DRAWINGS)

BRAMAN TRAIL

AWARDS STAGE (SEE ARCHITECTURAL DRAWINGS)

LITTER RECEPTACLE, TYP. (2) HS03

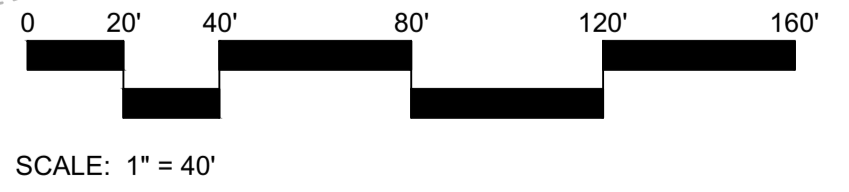
FINISH LINE (SEE ARCHITECTURAL DRAWINGS)  
24" WIDE X 6" DEPTH DECOMPOSED GRANITE SCREENINGS W/ METAL EDGE (SEE CIVIL DRAWINGS)

LITTER RECEPTACLE, TYP. (2) HS03

CONCRETE SIDEWALK (SEE CIVIL DRAWINGS)

CORBIN TRAIL

EROSION CONTROL (SEE CIVIL DRAWINGS)



NO.	DATE	DESCRIPTION	BY

DESIGNED BY	MHB
DRAWN BY	JMM
CHECKED BY	ERL
APPROVED BY	BRL

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FAX (850) 606-1501

**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

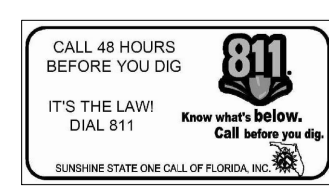
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Phone: 850.562.9600 WWW.DRMP.COM

MARK L. BAKER, RLA, ASLA  
FLORIDA CERTIFICATION NO. 666878  
09/19/2019

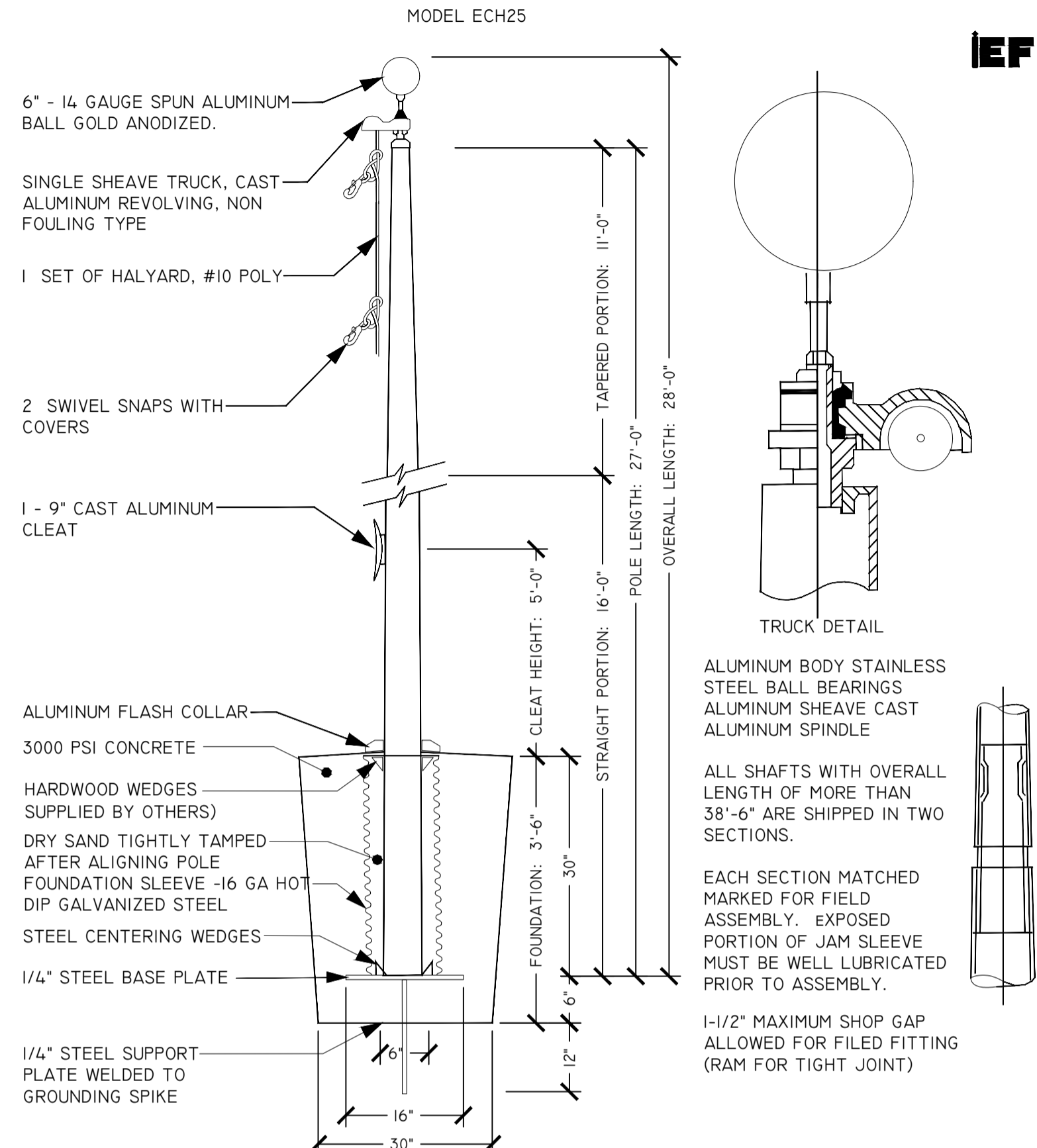
<b>HARDSCAPE KEY</b>
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 9/19/2019
DRAWING: HS02

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4667  
3.76  
EOW  
4668  
73.83  
73.83  
EOW  
4670  
73.81  
EOW  
373  
1.86  
DW  
4674  
72.85



1211 Miccosukee Pkwy Tallahassee, FL 32308  
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PROJECT	GROUND SET TAPERED ALUMINUM FLAGPOLE; ALLOY: 6063T6	EDER FLAG	DATE:
LOCATION	EXPOSED HEIGHT: 25'	OVERALL HEIGHT: 28'-0"	MANUFACTURING COMPANY REVISION:
ARCHITECT	SHIP IN 1 SECTION	BUTT DIAMETER: 6"	1000 W. RAWSON AVENUE
CONTRACTOR	TOP DIAMETER: 3-1/2"	WALL THICKNESS: .188"	CONTRACTOR
CUSTOMER	FINISH 100 GRIT POLISH	CUSTOMER	JOB:

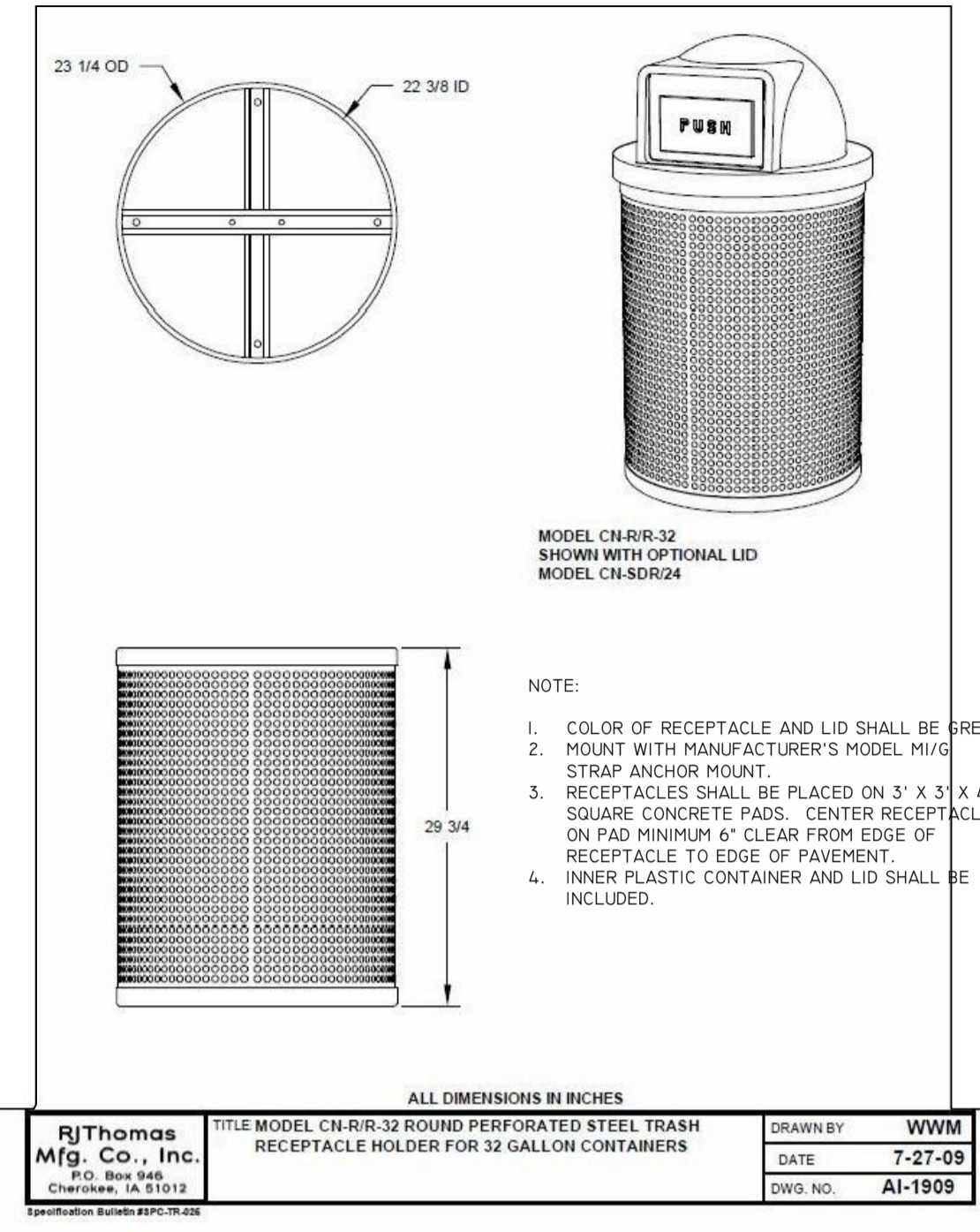
NOTE: SUBMIT SIGNED AND SEALED SHOP DRAWINGS.

**1** 25' FLAG POLE  
HS03 3/4" = 1'-0"

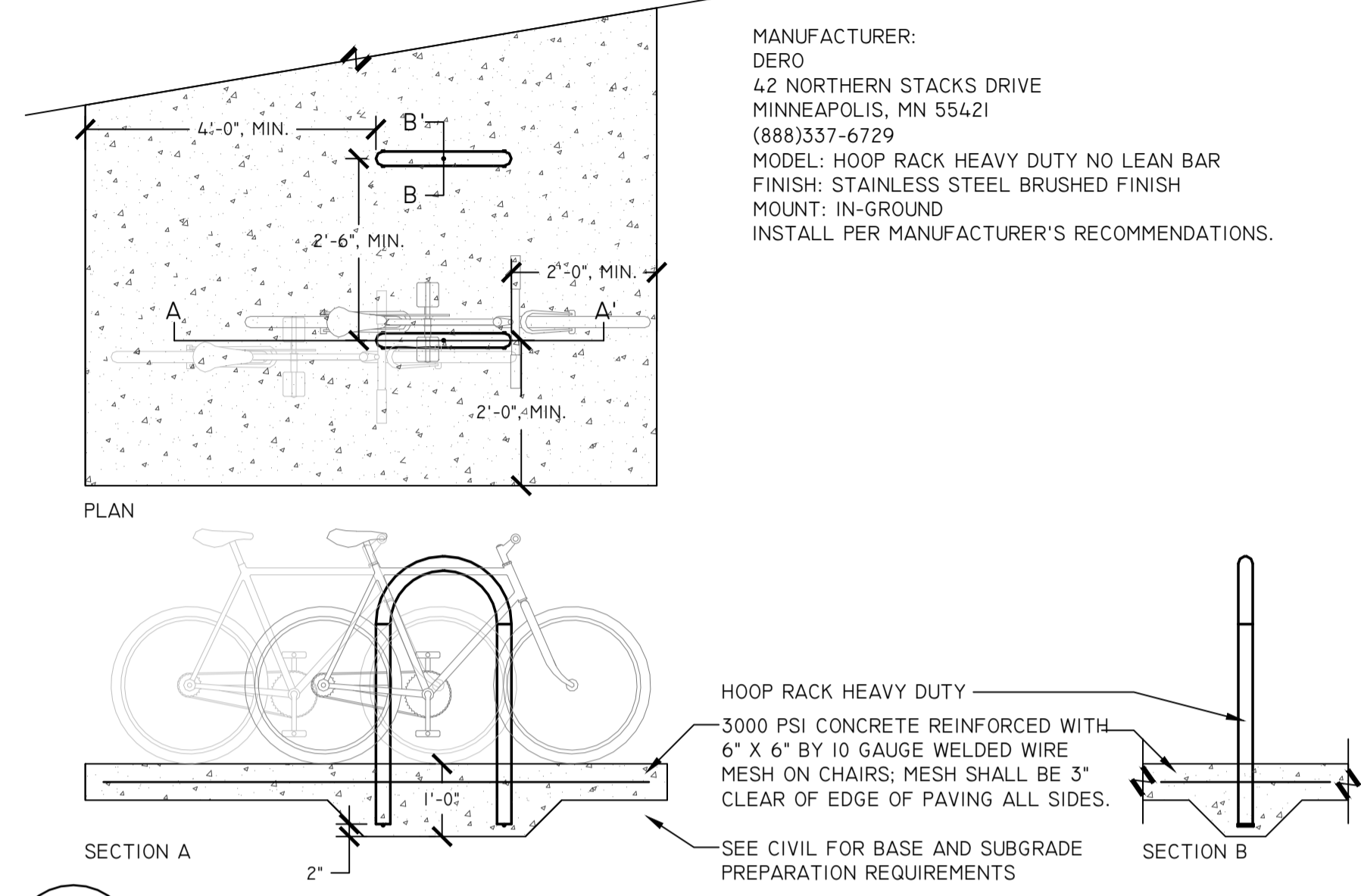
**FURNISHING SCHEDULE:**

SYMBOL	PREFABRICATED METAL STRUCTURES DESCRIPTION	QTY	DETAIL
	FLAG POLE; MODEL ECH25 CLEAR FINISH ALUMINUM FLAGPOLE WITH STANDARD ACCESSORIES.	1	1/HS03
SYMBOL	SITE FURNISHINGS DESCRIPTION	QTY	DETAIL
	DERO; FIXIT-BICYCLE REPAIR STATION; COLOR: BY OWNER; <a href="https://www.dero.com/product/fixit/">HTTPS://WWW.DERO.COM/PRODUCT/FIXIT/</a>	1	4/HS03
	LITTER RECEPTACLE; PILOT ROCK MODEL CN-R/R-32; 32 GALLON RECEPTACLE WITH LINER; MODEL MI/G STRAP ANCHOR MOUNT; MODEL CN-SDR-24 PLASTIC DOME LID; COLOR: GREEN.	4	2/HS03
	BIKE RACK; DERO HEAVY DUTY HOOP; FINISH: STAINLESS STEEL.	3	3/HS03
	LANDSCAPE FORMS PRES-S-2-E PRESIDIO, BACKLESS SEATS, 2 SEAT UNITS, STRAIGHT, EMBEDDED	6	5/HS03

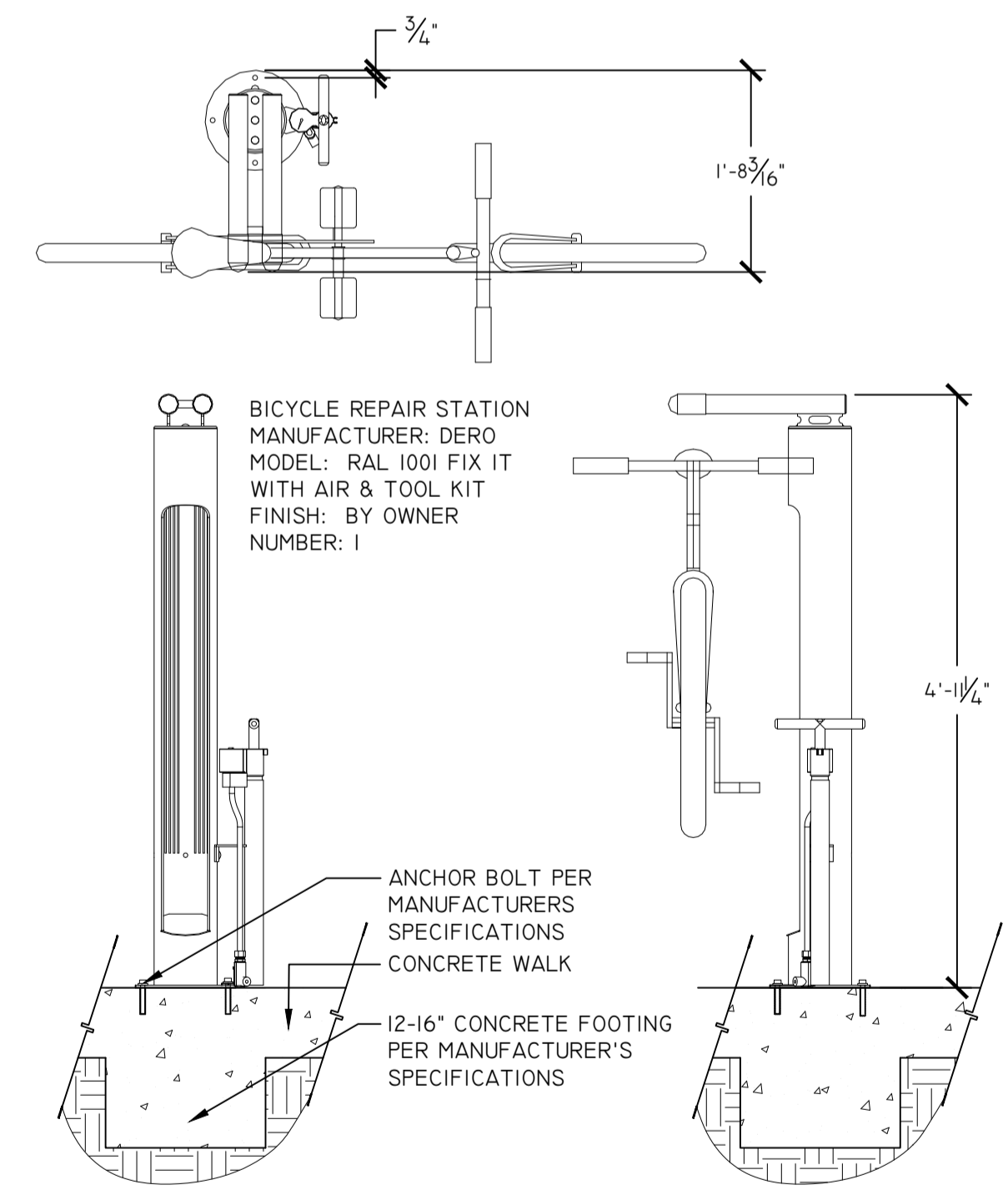
IEF



**2** LITTER RECEPTACLE, TYP.  
HS03 NTS

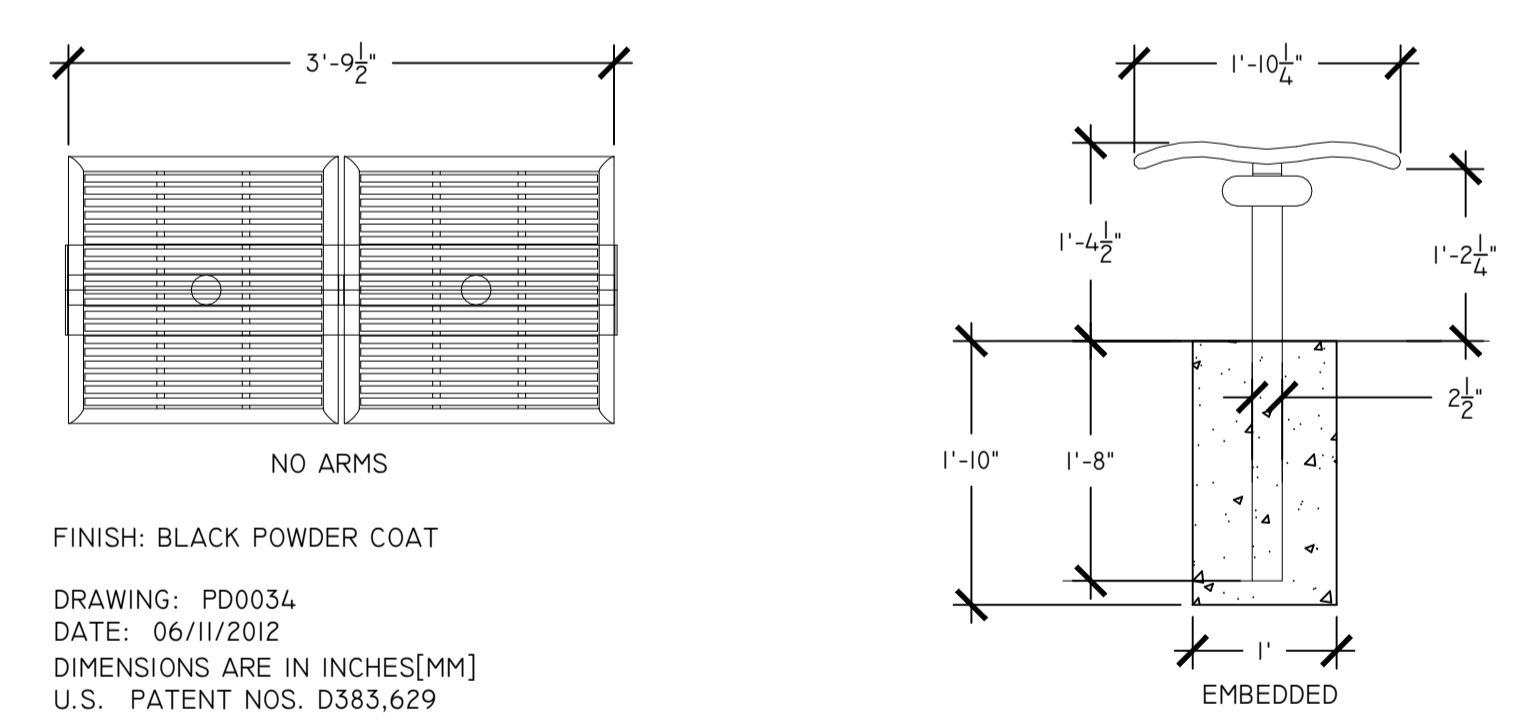


**3** BIKE RACK  
HS03 1/2" = 1'-0"



**4** DERO FIXIT BIKE REPAIR STATION  
HS03 3/4" = 1'-0"

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**5** BACKLESS BENCH  
HS03 3/4" = 1'-0"

REVISIONS	NO.	DATE	DESCRIPTION	BY
DESIGNED BY	MHB			
DRAWN BY	JMM			
CHECKED BY	ERL			
APPROVED BY	BRL			

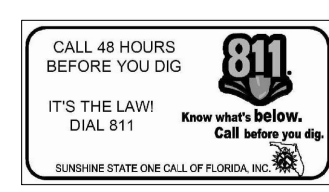
LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
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APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS  
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

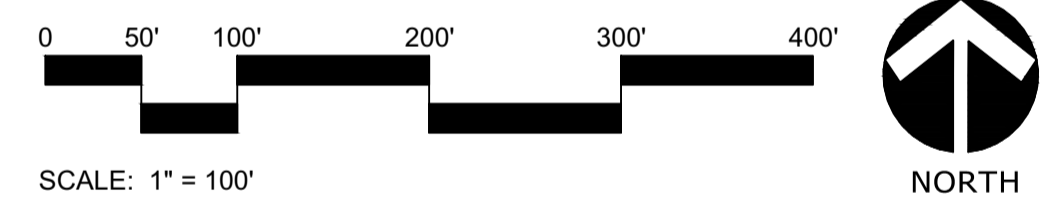
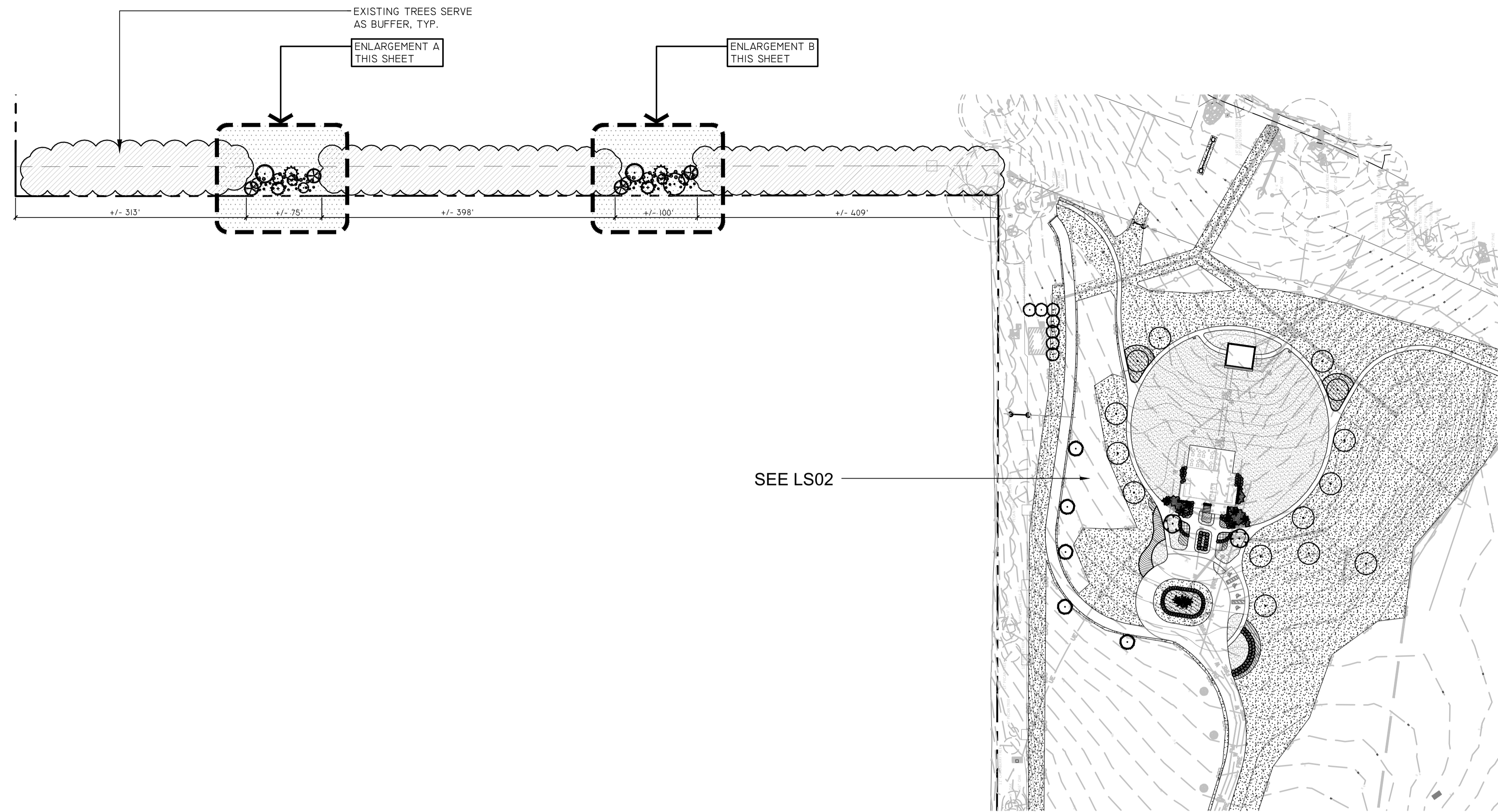
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MARK L. BAKER, RLA, ASLA FLORIDA CERTIFICATION NO. 6668776 09/19/2019
<b>HARDSCAPE DETAILS</b>
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 9/19/2019
DRAWING: HS03

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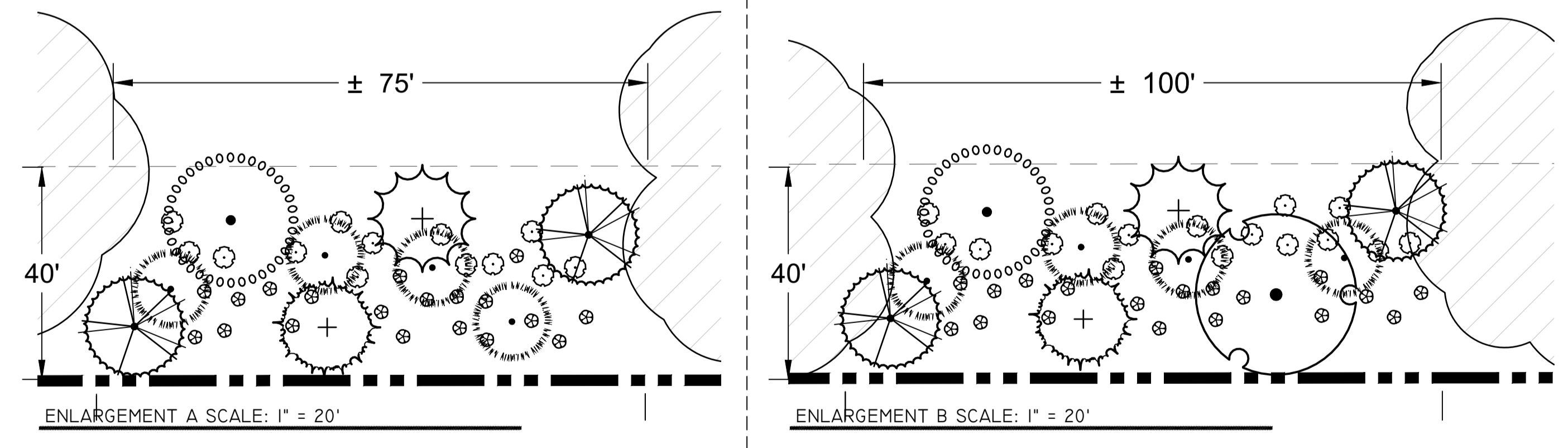


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**BUFFER PLANTING SCHEDULE:**

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
	ILAT	4	ILEX OPACA / AMERICAN HOLLY MIN. FL.#1 PER FL. G&S	FG B&B	2" CAL.
	JUS1	2	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	FG B&B	2" CAL.
	MAGR	2	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
	QUV12	1	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
	ILAT2	2	ILEX X ATTENUATA "EAST PALATKA" / EAST PALATKA HOLLY FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
	PIPA	8	PINUS PALUSTRIS / LONGLEAF PINE FL.#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT
	RHIN-F	38	RHODODENDRON INDICA "FORMOSA" / FORMOSA AZALEA	3 GAL.	24"-30"
	RHLS	29	RHODODENDRON INDICUM "Mrs. G.G. GERBING" / Mrs. G.G. GERBING AZALEA	3 GAL.	2'-3'



**NOTE:**  
 I. PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION FOR THE IDENTIFIED BUFFER AREAS, CONTRACTOR WILL SCHEDULE A SITE MEETING WITH THE OWNER AND OWNERS REPRESENTATIVES TO FIELD VERIFY THE LOCATION OF THE PROPOSED BUFFER PLANTS.

DESIGNED BY	MHB
DRAWN BY	JMM
CHECKED BY	ERL
APPROVED BY	BRL

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
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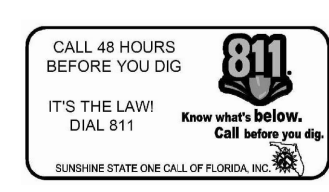
**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

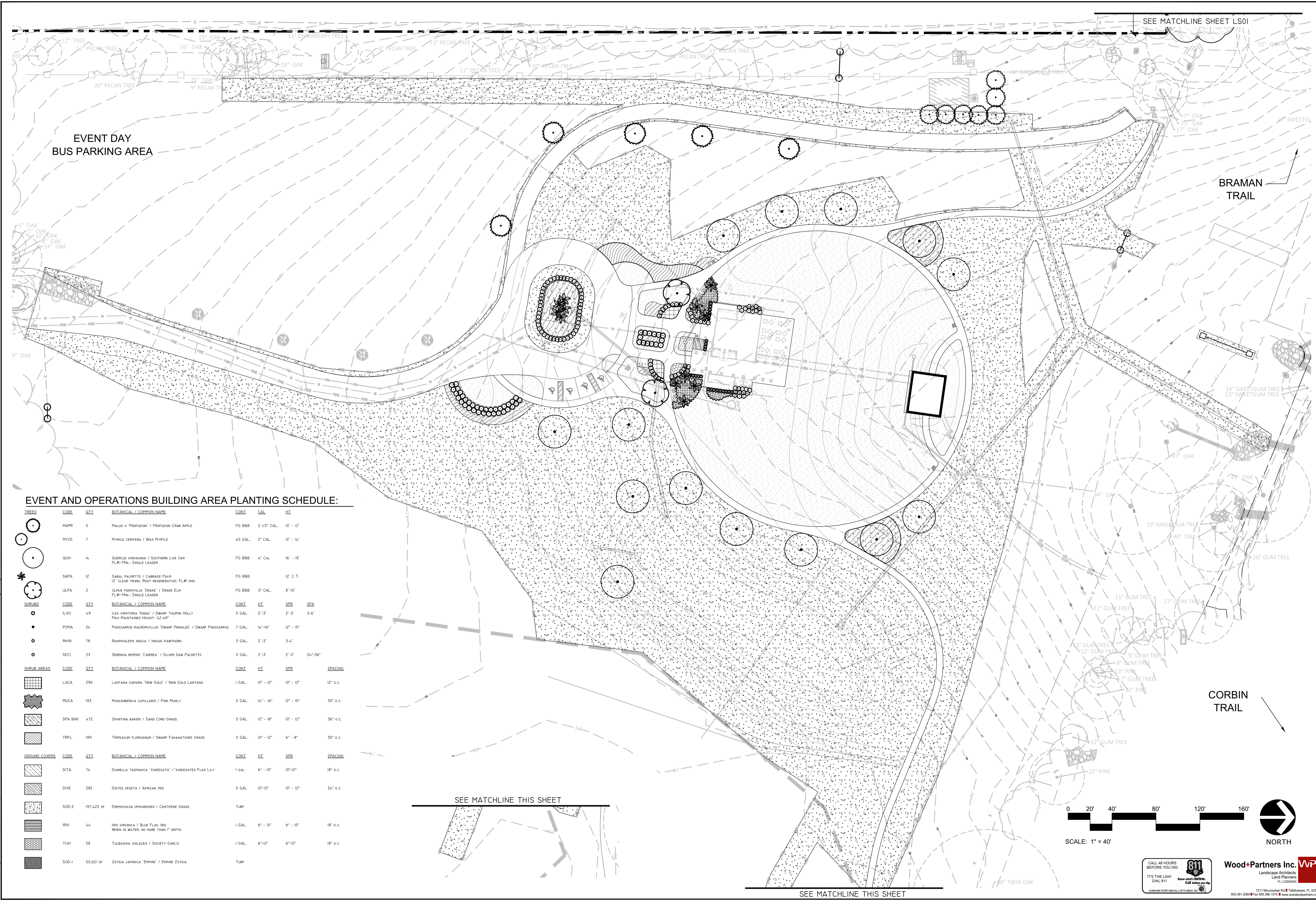
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MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6668776  
 09/19/2019

**PLANTING PLAN**  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: LS01

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EVENT DAY  
BUS PARKING AREA

BRAMAN  
TRAIL

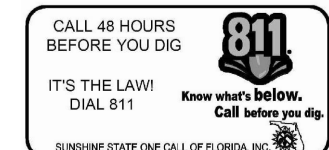
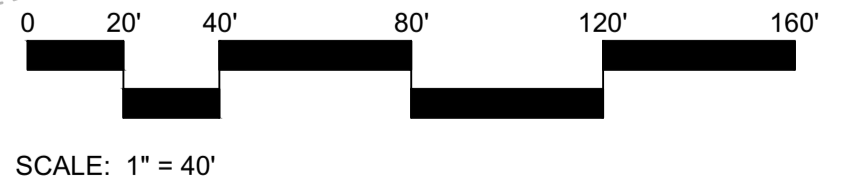
CORBIN  
TRAIL

**EVENT AND OPERATIONS BUILDING AREA PLANTING SCHEDULE:**

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.	HGT.	
	MAPR	5	MALUS X 'PROFUSION' / PROFUSION CRAB APPLE	FG BBB	2 1/2" CAL.	10' - 12'	
	MYCE	7	MYRICA CERIFERA / WAX MYRTLE	4S GAL.	2" CAL.	12' - 14'	
	OLVI	14	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 MIN.; SINGLE LEADER	FG BBB	4" CAL.	16' - 18'	
	SAPA	12	SABAL PALMETTO / CABBAGE PALM 12" CLEAR TRUNK; ROOT REGENERATIVE; FL#1 MIN.	FG BBB		12' C.T.	
	ULFA	2	ULMUS PARVIFOLIA 'DRAKE' / DRAKE ELM FL#1 MIN.; SINGLE LEADER	FG BBB	3" CAL.	8'-10'	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	HT.	SPR.	SPA.
	ILVD	49	ILEX VORSTORIA 'NANA' / DWARF YAUJON HOLLY MAINTAINED HEIGHT: 42-45"	3 GAL.	2'-3"	2'-3"	3-6"
	POMA	24	PODOCARPUS MAGNOPHYLLUS 'DWARF PRINGLES' / DWARF PODOCARPUS	7 GAL.	14"-16"	12' - 15'	
	RHIN	78	RHAPHOLEPIS INDICA / INDIAN HAWTHORN	3 GAL.	2'-3"	3-4'	
	SECI	23	SERENDA REPENS 'CINEREA' / SILVER SAW PALMETTO	3 GAL.	2'-3"	2'-3"	24"-36"
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	HT.	SPR.	SPACING
	LACA	290	LANTANA CAMARA 'NEW GOLD' / NEW GOLD LANTANA	1 GAL.	10" - 12"	10" - 12"	12" o.c.
	MUCA	193	MULLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL.	14" - 16"	12" - 15"	30" o.c.
	SPA BAK	472	SPARTINA BAKERI / SAND CORD GRASS	3 GAL.	12" - 18"	10" - 12"	36" o.c.
	TRFL	199	TRIPSACUM FLORIDANUM / DWARF FAKANATCHEE GRASS	3 GAL.	10" - 12"	6" - 8"	30" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	HT.	SPR.	SPACING
	DITA	74	DIANELLA TASHMANICA 'VARIEGATA' / VARIEGATED FLAX LILY	1 GAL.	6" - 10"	10"-12"	18" o.c.
	DIVE	282	DIETES VEGETA / AFRICAN IRIS	3 GAL.	10"-12"	10" - 12"	24" o.c.
	SOD-2	197,423 SF	EREMOCHLOA OPHUROIDES / CENTPEDE GRASS	TURF			
	IRVI	44	IRIS VIRGINICA / BLUE FLAG IRIS WHEN IN WATER, NO MORE THAN 1" DEPTH	1 GAL.	6" - 10"	6" - 10"	18" o.c.
	TUVI	58	TULBAGHIA VIOLACEA / SOCIETY GARLIC	1 GAL.	6"-12"	6"-12"	18" o.c.
	SOD-1	50,621 SF	ZOYSIA JAPONICA 'EMPIRE' / EMPIRE ZOYSIA	TURF			

SEE MATCHLINE THIS SHEET

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NO.	DATE	DESCRIPTION	REVISIONS			
			BY	DATE	DESCRIPTION	NO.

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APALACHEE REGIONAL PARK  
CROSS COUNTRY VENUE  
INFRASTRUCTURE  
IMPROVEMENTS

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Phone: 850.562.9600 WWW.DRMP.COM

MARK L. BAKER, RLA, ASLA  
FLORIDA CERTIFICATION NO. 6668776  
09/19/2019

PLANTING PLAN  
PROJECT NO.:  
15-0513.004

SCALE:  
AS SHOWN

DATE:  
9/19/2019

DRAWING:  
LS02

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**PLANTING DETAIL NOTES:**

- THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL. FERTILIZATION WILL BE AS RECOMMENDED BY SOIL TESTS.
- THE CONTRACTOR SHALL APPLY A MYCORRHIZAL INOCULANT AND 100% ORGANIC STARTER FERTILIZER TO EACH NEW TREE PLANTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL APPLY ORGANIC HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.
- CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ALL THE SOIL TOGETHER FIRMLY, BUT NOT LONG ENOUGH TO HAVE BECOME POT BOUND.
- FOR DISTURBED AREAS OF EXISTING SOD, CONTRACTOR TO INSTALL SOD OF THE SAME SPECIES. THE CONTRACTOR SHALL LAY SOD SOLIDLY IN ALL INDICATED OR DISTURBED AREAS WITH JOINTS IN CONTACT WITH EACH OTHER. PIN ALL SODDED SLOPES GREATER THAN 3:1 WITH STEEL U PINS/SOD STAPLES.
- ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT THE OWNER'S REPRESENTATIVE APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, LITTER REMOVAL, REMOVAL OF UNDESIRABLE VEGETATION, MAINTENANCE AND EDGING OF BEDLINES, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY. ALL PAVED SURFACES ARE TO BE CLEANED OF SOIL AND DEBRIS AT THE CLOSE OF THE WORK DAY.
- EACH TREE SHALL BE PRUNED AS NEEDED TO REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN/DAMAGED BRANCHES. ALL PRUNING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL PRESERVE THE NATURAL HABIT AND CHARACTER OF THE PLANT.
- IRRIGATION SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS AND BACKFLOW CONTROLLER, AND TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANTED AREAS IN ADDITION TO IRRIGATED AREAS FOR PLANT ESTABLISHMENT THROUGH WARRANTY PERIOD.
- THE CONTRACTOR SHALL APPLY SEED FREE/WEED FREE MULCH TO PLANTED AREAS AT A MINIMUM 3" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, I.E. WOOD FIBER. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. LIMITS OF MULCHING SHALL BE AS SHOWN ON PLAN, OR FOR INDIVIDUAL PLANTS, THE AREA OF THE PLANTING PIT, SEE PLANTING DETAILS.
- CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
- PLANTS WITH BROKEN ROOT BALLS, BOUND ROOTS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED ON THE PLANS. ALL TREES SHALL BE FLORIDA #1 OR BETTER AT TIME OF INSTALL. PROVIDE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS (I.E. APPROVED MULCH, FERTILIZER, ETC.), LABOR, ETC. REPORT PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.
- CONTRACTOR SHALL STAKE TREES FOR APPROVAL PRIOR TO INSTALLATION. ANY CONFLICTS OR DISCREPANCIES SHALL BE FIELD ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- NO TREE PLANTING SHALL OCCUR WITHIN APPLICABLE SIGHT DISTANCE TRIANGLE AREAS AS SPECIFIED BY DESIGN STANDARD INDEX 546 AS PUBLISHED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION AT THE TIME OF INSTALLATION. CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREE PLANTINGS IN THE RIGHT-OF-WAY IN THE FIELD PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. OWNER SHALL AGREE TO MAINTAIN THE STRUCTURE OF TREE PLANTINGS IN THE RIGHT-OF-WAY TO ELIMINATE SIGHT DISTANCE CONFLICTS.
- CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREE PLANTINGS THROUGHOUT THE PROJECT CORRIDOR IN THE FIELD PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ANTICIPATE THAT SOME RE-ARRANGEMENT OF MATERIAL WILL OCCUR.
- PROVIDE THE OWNER AND OWNER'S REPRESENTATIVE WITH SEVEN CALENDAR DAYS ADVANCE NOTICE OF COMPLETING INSTALLATION OF ALL PLANTS AND INCIDENTAL LANDSCAPING. THE ESTABLISHMENT PERIOD WILL BEGIN UPON ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANTS, BY THE OWNER. NOT LESS THAN FORTY-FIVE DAYS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION, SUBMIT A MAINTENANCE PLAN TO THE OWNER AND OWNER'S REPRESENTATIVE. THE MAINTENANCE PLAN IS SUBJECT TO REVIEW AND COMMENT BY THE OWNER AND OWNER'S REPRESENTATIVE. INSTALLATION WILL NOT BE CONSIDERED COMPLETE UNTIL THE MAINTENANCE PLAN HAS WRITTEN APPROVAL FROM THE OWNER. THE MAINTENANCE PLAN SHALL SPECIFICALLY DESCRIBE THE METHODS, ACTIVITIES, MATERIALS AND SCHEDULE TO ACHIEVE THE FOLLOWING AT ALL TIMES THROUGHOUT THE ESTABLISHMENT PERIOD:
  - KEEP ALL PLANTS INSTALLED AS SPECIFIED IN THESE PLANS.
  - KEEP ALL PLANTS UNDAMAGED, INCLUDING FREE OF PESTS AND DISEASE, PROPERLY HYDRATED AND NOURISHED, TO SUPPORT TO GROWTH AND MAINTAIN FORM AND HABIT SPECIFIED IN THESE PLANS.
  - KEEP ALL PLANTS PRUNED TO MAINTAIN PLANT HEALTH, CLEAR VISIBILITY OF SIGNS, TRAFFIC SIGNALS, SAFE SIGHT DISTANCE AT INTERSECTIONS AND DRIVEWAYS, SAFE AND OPERATIONAL HORIZONTAL AND VERTICAL CLEARANCE FROM ROADWAYS, SIDEWALKS, UTILITIES, LIGHT POLES, MECHANICALS EQUIPMENT, FENCES, WALLS AND DRAINAGE STRUCTURES, AND UNOBSTRUCTED ACCESS FOR ALL AUTHORIZED USERS.
  - OPERATE AND MAINTAIN ALL COMPONENTS OF ANY IRRIGATION SYSTEM AS SPECIFIED IN THE PLANS WHEN INSTALLED AS PART OF THE CONTRACT.
  - OWNER WILL BE RESPONSIBLE FOR PAYMENT OF WATER UTILITY USAGE FOR IRRIGATION DURING THE WARRANTY AND MAINTENANCE PERIOD. CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF THE IRRIGATION SYSTEM AND ASSOCIATED COMPONENTS DURING THE WARRANTY AND MAINTENANCE PERIOD.
- ALL PLANT MATERIAL SHALL BE WARRANTIED FOR A 12 MONTH PERIOD AFTER FINAL ACCEPTANCE BY THE CONTRACTOR TO BE IN FLOURISHING CONDITION OF ACTIVE GROWTH AS INDICATED IN SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE WARRANTY PERIOD AND INFORM THE OWNER IF PROBLEMS DEVELOP WITH THE PLANT MATERIAL. THE CONTRACTOR SHALL REMOVE DEAD AND UNHEALTHY PLANTS IMMEDIATELY AND REPLACE AT THE CONTRACTOR'S EXPENSE. WITHIN THE 12 MONTH PERIOD, THERE SHALL BE EVALUATION OF MAINTENANCE BY OWNER'S REPRESENTATIVE AND, IF NEEDED, CORRECTIVE ACTION TAKEN BY CONTRACTOR. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO END THE MAINTENANCE SERVICES AT ANY POINT FOR ANY REASON.
- PLANTS SHALL BE DEEMED DEAD IF THE TERMINAL LEADER DIES OR THE PLANT HAS LESS THAN 90% VIABLE LEAF SURFACE AREA.
- WHEN CONFLICTS EXIST BETWEEN THE SPECIFICATIONS AND THESE PLANS, THE SPECIFICATIONS SHALL PREVAIL.
- A MINIMUM OF 36 IN. OF CLEAR SPACE SHALL BE MAINTAINED TO PERMIT ACCESS TO (AND OPERATION OF) FIRE PROTECTION EQUIPMENT, FIRE DEPARTMENT INLET CONNECTIONS, AND/OR FIRE PROTECTION SYSTEM CONTROL VALVES.

**PLANTING SCHEDULE:**

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT
	ILAT	4	ILEX OPACA / AMERICAN HOLLY MIN. FL#1 PER FL G&S	FG B&B	2" CAL.	9'-12'
	JUSI	2	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	FG B&B	2" CAL.	9'-12'
	MAGR	2	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	9'-12'
	MAPR	5	MALUS X "PROFUSION" / PROFUSION CRAB APPLE	FG B&B	2 1/2" CAL.	10' - 12'
	MYCE	7	MYRICA CERIFERA / WAX MYRTLE	45 GAL.	2" CAL.	12" - 14"
	QUVI2	1	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	9'-12'
	QUVI	14	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK FL#1 MIN.; SINGLE LEADER	FG B&B	4" CAL.	16" - 18"
	SAPA	12	SABAL PALMETTO / CABBAGE PALM 12" CLEAR TRUNK; ROOT REGENERATIVE; FL#1 MIN.	FG B&B		12" C.T.
	ULPA	2	ULMUS PARVIFOLIA "DRAKE" / DRAKE ELM FL#1 MIN.; SINGLE LEADER	FG B&B	3" CAL.	8'-10'
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT
	ILAT2	2	ILEX X ATTENUATA "EAST PALATKA" / EAST PALATKA HOLLY FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	8' - 10'
	PIPA	8	PINUS PALUSTRIS / LONGLEAF PINE FL#1 MIN.; SINGLE LEADER	FG B&B	2" CAL.	12" - 14"
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR
	ILVO	49	ILEX VOMITORIA "NANA" / DWARF YAUPON HOLLY MAX MAINTAINED HEIGHT: 42-48"	3 GAL.	2'-3"	2'-3"
	POMA	24	PODOCARPUS MACROPHYLLUS "DWARF PRINGLES" / DWARF PODOCARPUS	7 GAL.	14"-16"	12" - 15"
	RHIN	78	RHAPHIOLEPIS INDICA / INDIAN HAWTHORN	3 GAL.	2'-3"	3-4'
	RHIN-F	38	RHODODENDRON INDICA "FORMOSA" / FORMOSA AZALEA	3 GAL.	24"-30"	24"-30"
	RHLS	29	RHODODENDRON INDICUM "MRS. G.G. GERBING" / MRS. G.G. GERBING AZALEA	3 GAL.	2'-3"	2'-3"
	SECI	23	SERENOA REPENS "CINEREA" / SILVER SAW PALMETTO	3 GAL.	2'-3"	2'-3"
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR
	LACA	290	LANTANA CAMARA "NEW GOLD" / NEW GOLD LANTANA	1 GAL.	10" - 12"	10" - 12"
	MUCA	193	MUHLENBERGIA CAPILLARIS / PINK MUHLY	3 GAL.	14" - 16"	12" - 15"
	SPA BAK	472	SPARTINA BAKERI / SAND CORD GRASS	3 GAL.	12" - 18"	10" - 12"
	TRFL	199	TRIPSACUM FLORIDANUM / DWARF FAKAHATCHEE GRASS	3 GAL.	10" - 12"	6" - 8"
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPR
	DITA	74	DIANELLA TASMANICA "VARIEGATA" / VARIEGATED FLAX LILY	1 GAL.	6" - 10"	10"-12"
	DIVE	282	DIETES VEGETA / AFRICAN IRIS	3 GAL.	10"-12"	10" - 12"
	SOD-2	197,423 SF	EREMOCHLOA OPHIUROIDES / CENTIPEDE GRASS	TURF		
	IRVI	44	IRIS VIRGINICA / BLUE FLAG IRIS WHEN IN WATER, NO MORE THAN 1" DEPTH	1 GAL.	6" - 10"	6" - 10"
	TUVI	58	TULBAGHIA VIOLACEA / SOCIETY GARLIC	1 GAL.	6"-12"	6"-12"
	SOD-1	50,621 SF	ZOYSIA JAPONICA "EMPIRE" / EMPIRE ZOYSIA	TURF		

R	E	V	I	S	I	O	N	S	BY	DESCRIPTION
										DATE
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY							

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
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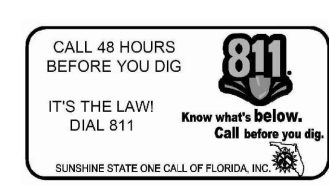
**APALACHEE REGIONAL PARK CROSS COUNTRY VENUE INFRASTRUCTURE IMPROVEMENTS**

**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
 Certificate of Authorization No. 2648  
 2882 Remington Green Circle  
 Tallahassee, Florida 32308  
 Phone: 850.562.9600 WWW.DRMP.COM

MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6668778  
 09/19/2019

**PLANTING NOTES AND SCHEDULE**  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: LS03

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LANDSCAPE TECHNICAL MAINTENANCE PLAN												
Maintenance Operation	Operations noted herein shall be performed by the Owner . Assume responsibility for proper maintenance condition and plant health as set forth in the landscape plan.											
Week/Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing		X	X	XX	XX	XX	XX	XX	XX	XX		
	Mow twice per month beginning April 1 through October 31. Set mower height to avoid scalping the turf. No lower than 3 inches.											
Edging		X	X	XX	XX	XX	XX	XX	XX	XX		
	Owner to edge landscape planting beds, sidewalks, and curbs within project limits.			Edging by mechanical edger, same frequency as mowing.								
Recommended Watering Schedule	Trees (Watering Frequency)			Shrubs (Watering Frequency)			Watering General Notes					
	<2" Caliper	As provided for in the irrigation plans / system design.		As provided for in the irrigation plans / system design.			The Owner shall water all landscape plants and turf grass as needed after establishment to meet proper maintenance conditions as described in the landscape plan. Watering shall be the sole responsibility of the Owner and optional after a 12 month establishment period. The Owner shall water as required to ensure plant establishment using an irrigation system. Never apply irrigation if the soil is saturated. Supplemental watering is applied to encourage vigorous growth and plant establishment.					
	2-4" Caliper	As provided for in the irrigation plans / system design.										
	>4" Caliper	As provided for in the irrigation plans / system design.										
XX	XXY	XX	XX	XX	XXY	XX						
Weed Control	Owner to weed all planting beds twice per month. Landscape areas shall be kept weed free.			Weeding of landscape areas utilizing appropriate selective and non-selective herbicides, applied as per manufacturer's specifications, under the supervision of a licensed applicator by FDACS. Application of herbicides shall be done with extreme caution to prevent damage to landscape and tree plantings. NOTE - Application of Snapshot granular herbicide at 200#/ acre rate as per manufacturer's specifications and limitations.								
Pruning	Must maintain Florida #1 or better form.			Pruning for trees, shrubs, and groundcovers to be performed in accordance with the ANSI A300 guidelines and FDOT design standard index 546. All trees within medians shall be pruned to maintain sight distance for vehicles and pedestrians. Additionally, prune trees as needed to remove dead, diseased, or broken branches, fronds, and seed heads.								
Fertilization	Trees and shrubs shall be fertilized using a slow release fertilizer that contains at least 50% of the available nitrogen in a slow release form. Fertilizer analysis shall be in a NPK ratio of 2-1-1, a t a rate recommended by soil fertility analysis.			Trees, shrubs, and ground covers are to be fertilized by top dressing the root zone of the plants and trees, using approved methods. All materials and performance of work shall meet Florida Friendly Best Management Practices for the Protection of Water Resources by the Green Industry and all other applicable state and federal health and safety laws.								
Litter Removal	X	X	X	XX	XX	XX	XX	XX	XX	XX	X	X
	Litter removal within the project limits. To be completed in conjunction with the mowing schedule, but immediately prior to mowing. The months of November, December, and January shall also have litter removed once per month.											
Mulching 3" Depth Pine Bark Nuggets	Mulch should be maintained year-round			Mulch shall be free of vegetative yard waste, plastic, glass, metal, palm fronds, sand, and other foreign materials. Mulch shall be consistent in appearance. Mulch shall be free from viable non-native seed, weed, and grass seed. Maintain a continuous 3" layer of mulch in all planted and mulched areas with the exception of trees. Mulch shall not cover the root ball of any landscape tree.								
Tree Staking	Stake and Guy trees at time of installation.			The Owner shall maintain, repair, and/or replace all staking materials as needed to keep trees upright and to prevent girdling. The Owner shall remove staking at the end of the one year establishment period or upon plan establishment. Refer to landscape details for staking and guying.								
Disease and Insect Control	X	X	X	X	X	X	X	X	X	X	X	X
	Owner to inspect all landscape material on a monthly basis for insects, mites, fungus, etc., and apply correct control products as needed per manufacturer's specification; to prevent landscape material from falling below the minimum maintenance condition outlined in the landscape plan and contract documents.											
Plant Material Replacement	The Owner shall replace all dead and substandard material (see Landscape plan and contract documents) in accordance with the Environmental Management Permit											

NO.	DATE	DESCRIPTION	BY

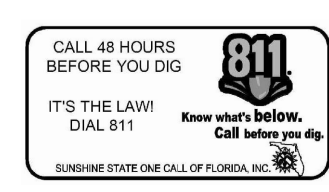
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MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. 6668776  
 09/19/2019

LANDSCAPE MAINTENANCE PLAN  
 PROJECT NO.: 15-0513.004  
 SCALE: AS SHOWN  
 DATE: 9/19/2019  
 DRAWING: LS05



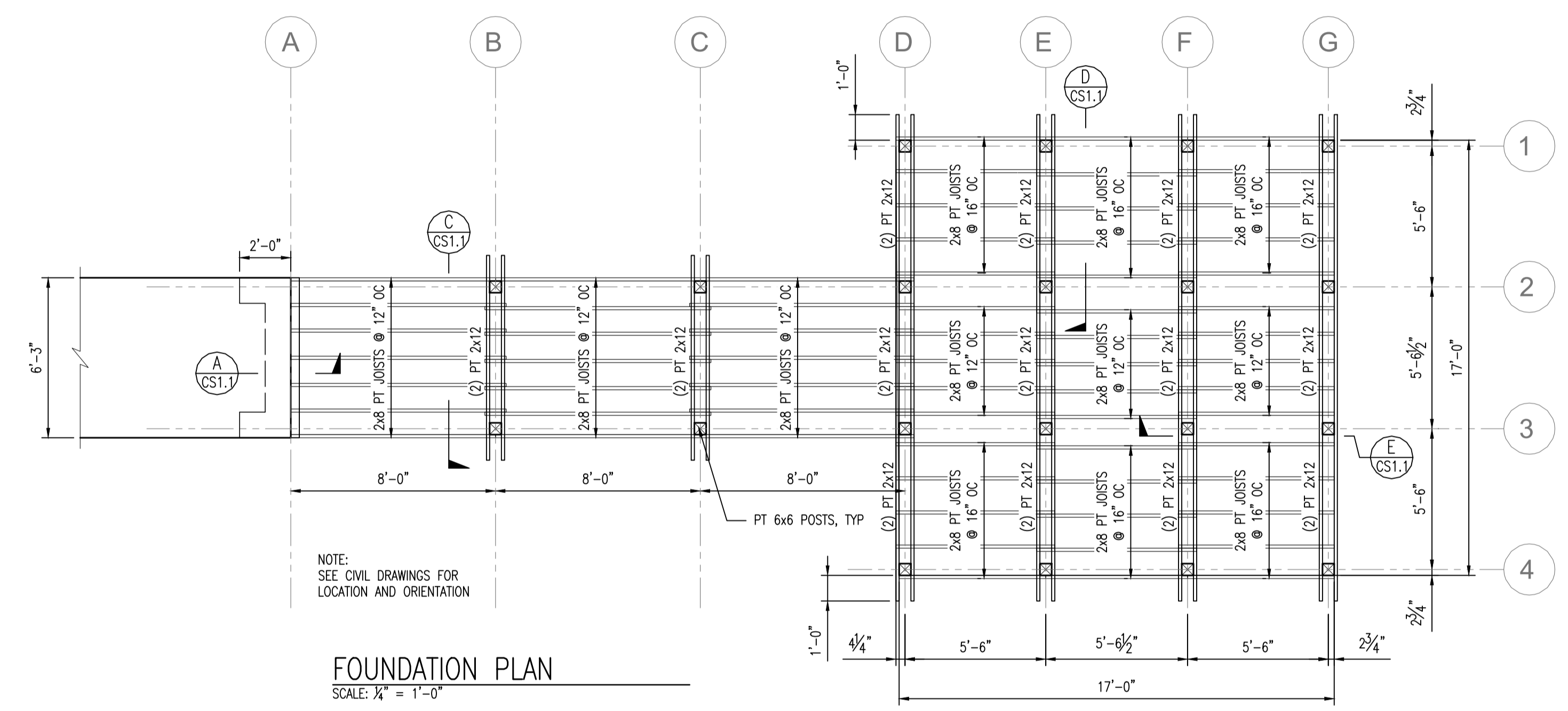
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

**STRUCTURAL NOTES**

1. GENERAL:
  - 1.1. UNLESS OTHERWISE SPECIFIED, ALL WORK AND MATERIALS SHALL CONFORM TO "FLORIDA BUILDING CODE" (FBC) REQUIREMENTS, 2017 EDITION.
  - 1.2. DO NOT SCALE DRAWINGS. USE DIMENSIONS AND DETAILS.
  - 1.3. THE GENERAL CONTRACTOR SHALL VERIFY THE DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
  - 1.4. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - 1.5. 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 STRUCTURAL 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.
  - 1.6. STRUCTURAL SUBMITTALS:
    - 1.6.1. REPRODUCTION OF CONTRACT DOCUMENTS FOR ERECTION AND/OR SHOP DRAWINGS WILL NOT BE PERMITTED.
    - 1.6.2. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL. THE STRUCTURAL ENGINEER OF RECORD, THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO QUANTITIES, MEMBER SIZES, DETAILS, AND THE DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISION.
2. DESIGN LOADS:
  - 2.1. LIVE LOADS
    - HANDRAIL/GUARDRAIL: 50 PLF/200 LB NON CONCURRENT\*
    - BOARDWALK: 100 PSF
  - \* LOADS APPLIED IN ANY DIRECTIONS, NON-CONCURRENTLY
3. WIND LOAD
  - 3.1. ULTIMATE DESIGN WIND SPEED = 120 MPH
  - 3.2. RISK CATEGORY = II
  - 3.3. WIND EXPOSURE CATEGORY = C
  - 3.4. ENCLOSURE CLASSIFICATION = OPEN
4. SOIL:
  - 4.1. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT FILE NO. 07-50-18-01, DATED APRIL 18, 2018 BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
  - 4.2. ALL SOIL BELOW SLABS-ON-GRADE AND AT GRADE FOOTINGS SHALL BE COMPACTED TO A DEPTH OF 12" AT OPTIMUM MOISTURE CONTENT TO 95% OF MODIFIED PROCTOR, ASTM D1557. REFER TO GEOTECHNICAL REPORT FOR SUB-GRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
5. SHALLOW FOUNDATIONS:
  - 5.1. FOOTING SIZES AND REINFORCEMENT ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL. PREPARED PER THE GEOTECHNICAL REPORT.
  - 5.2. PROVIDE CRACK CONTROL JOINTS IN ALL FLOATING SLABS ON GRADE AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQ. FT. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE, ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.
6. TIMBER PILES:
  - 6.1. TYPICAL PILES SHALL BE MIN 6x6 NO. 2 SOUTHERN YELLOW PINE AND INSTALLED AS SHOWN ON SHEET S1.1 U.N.O. FOR TYPICAL CONDITION WITH NO STANDING WATER. ANY PILES INSTALLED IN STANDING WATER SHALL BE MINIMUM 8x8 NO. 2 SOUTHERN YELLOW PINE INSTALLED TO A DEPTH OF 10 FEET BELOW GROUND SURFACE. PILES MAY BE JETTED OR DRIVEN FOR THE FIRST 6 FEET BUT MUST BE DRIVEN THE LAST 4 FEET. ALL CUT ENDS SHALL BE TREATED WITH COPPER NAPHTHENATE.
  - 6.2. ALL TIMBER PILES SHALL BE PRESURE TREATED AS FOLLOWS:
    - 6.3.1. ACQ ALKALINE COPPER QUATERNARY 0.80 PCF
    - 6.3.2. CA COPPER AZOLE 0.40 PCF
7. CONCRETE:
  - 7.1. ALL CONCRETE WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (A.C.I. 318-11). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI.
8. REINFORCING STEEL:
  - 8.1. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, WITH A MINIMUM SPLICE LENGTH OF 36 BAR DIAMETERS UNLESS INDICATED OTHERWISE.
  - 8.2. PROVIDE ADDITIONAL HORIZONTAL CORNER BARS TO MATCH MAIN HORIZONTAL REINFORCING STEEL AT ALL BEAMS, OR WALL INTERSECTIONS, CORNERS AND OTHER CONCRETE DIRECTIONAL CHANGES AND CORNERS, INCLUDING FOOTINGS.
9. TIMBER FRAMING:
  - 9.1. MISCELLANEOUS TIMBER FRAMING MEMBERS SHALL BE NO. 2 SOUTHERN PINE, OR STRONGER, EXCEPT PROVIDE NO. 1 SOUTHERN PINE FRAMING WHERE INDICATED.
  - 9.2. ALL FRAMING SHALL BE PRESERVATIVE TREATED MEMBERS AT ALL LOCATIONS WHERE IN CONTACT WITH MASONRY/CONCRETE OR WHERE EXPOSED TO WEATHER.
  - 9.3. ALL TIMBER PILES SHALL BE PRESURE TREATED AS FOLLOWS:
    - ACQ ALKALINE COPPER QUATERNARY 0.25 PCF
    - CA COPPER AZOLE 0.15 PCF
  - 9.4. ALL FASTENERS INCLUDING NAILS, LAGS, THRU BOLTS, WASHERS AND NUTS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
  - 9.5. PRE-DRILL HOLES FOR THRU BOLTS AT NOMINAL BOLT DIAMETER PLUS 1/16".
  - 9.6. PRE-DRILL LEAD HOLES FOR LAG SCREWS AS FOLLOWS:
    - 3/8" LAG SCREWS - LEAD HOLE TO BE 15/64".
    - 1/2" LAG SCREWS - LEAD HOLE TO BE 5/16".
  - 9.7. GLUED LAMINATED TIMBERS
    - 9.7.1. TIMBERS SHALL BE APPEARANCE GRADES CONFORMING TO AITC 110.
    - 9.7.2. TIMBERS SHALL BE FABRICATED FROM SOUTHERN PINE AND SHALL CONFORM TO AITC 117, "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES"
10. COMPOSITE DECKING:
  - 10.1. DECKING SHALL BE 5/4 NOMINAL, MANUFACTURED BY MOISTURE SHIELD OR APPROVED ALTERNATIVE.
  - 10.2. DECKING SHALL BE INSTALLED WITH 1/4" SIDE TO SIDE SPACING BETWEEN DECK BOARDS.
  - 10.3. INSTALL WITH 1/8" OR GREATER END-TO-END SPACING BETWEEN END OF BOARDS (BUTT JOINTS).
  - 10.4. WHERE APPLICABLE STAGGER THE BUTT JOINTS CONSISTENT VISUALLY. CONTRACTOR SHALL SISTER JOISTS WITH BLOCKING AT ALL BUTT JOINTS.
  - 10.5. FASTEN DECKING TO EACH SUPPORT WITH 3", #8 STAINLESS STEEL TRIM HEAD SCREWS, TWO PER BOARD AT EACH SUPPORT. SCREWS SHALL BE A MINIMUM OF 1/2" FROM THE BOARD END. SCREWS SHALL BE CONSISTENTLY PLACED FOR A UNIFORM SCREW PATTERN.

**LEGEND**

- |                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| A.B. - ANCHOR BOLT                                  | L.L.V. - LONG LEG VERTICAL          |
| ADD'L - ADDITIONAL                                  | MAT'L - MATERIAL                    |
| B.B. - BOND BREAKER(30# FELT)                       | MB - METAL BUILDING                 |
| B/L - BUILDING LINE                                 | M.B. - MACHINE BOLT                 |
| BM. - BEAM                                          | M.D. - METAL DECK                   |
| BRG. - BEARING                                      | MAX. - MAXIMUM                      |
| B.S. - BOTTOM STEEL                                 | MFR. - MANUFACTURER                 |
| C.J. - CONSTRUCTION JOINT                           | MIN. - MINIMUM                      |
| C.J.1 - CONSTRUCTION JOINT AT NON-LOAD BEARING WALL | O.D. - OUTSIDE DIAMETER             |
| CL. - CLEAR                                         | OP.HD. - OPPOSITE HAND              |
| C.M.U. - CONCRETE MASONRY UNIT                      | P.T. - PRESSURE TREATED             |
| COL. - COLUMN                                       | R/C - REINFORCED CONCRETE           |
| CONT. - CONTINUOUS                                  | REINF. - REINFORCEMENT              |
| C.W.B. - CAPILLARY WATER BARRIER                    | REQ'R - REQUIREMENTS                |
| DBL. - DOUBLE                                       | S.C.J. - SAW CUT CONSTRUCTION JOINT |
| DN. - DOWN                                          | SGL. - SINGLE                       |
| EL. - ELEVATION                                     | S.L.V. - SHORT LEG VERTICAL         |
| E.O.A. - EDGE OF CONCRETE                           | SPA. - SPACES                       |
| EQ. - EQUAL                                         | S.S.T. - SIMPSON STRONG TIE         |
| E.J. - EXPANSION JOINT                              | STD. - STANDARD                     |
| FIN. - FINISH                                       | T&B - TOP AND BOTTOM                |
| FL. - FLOOR                                         | T.C. - TOP OF CONCRETE              |
| F.S. - FIELD SPLICE                                 | T.S. - THICKENED SLAB               |
| H.B. - HIGH BEAM                                    | TS - TOP STEEL                      |
| HORIZ. - HORIZONTAL                                 | TYP. - TYPICAL                      |
| H.S.A. - HIGH STRENGTH BOLT                         | U.N.O. - UNLESS NOTED OTHERWISE     |
| I.D. - INSIDE DIAMETER                              | V.B. - VAPOR BARRIER                |
| I.B. - LOW BEAM                                     | V.C.J. - VERTICAL CONTROL JOINT     |
| LG. - LONG                                          | V.E.J. - VERTICAL EXPANSION JOINT   |
|                                                     | W.F.P. - WORKING POINT              |
|                                                     | W.W.F. - WELDED WIRE FABRIC         |



R	E	V	I	S	T	I	O	N	S	BY	
										DESCRIPTION	
NO.	1	DATE	06/07/19	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	BVP	BVP	PMM	PMM

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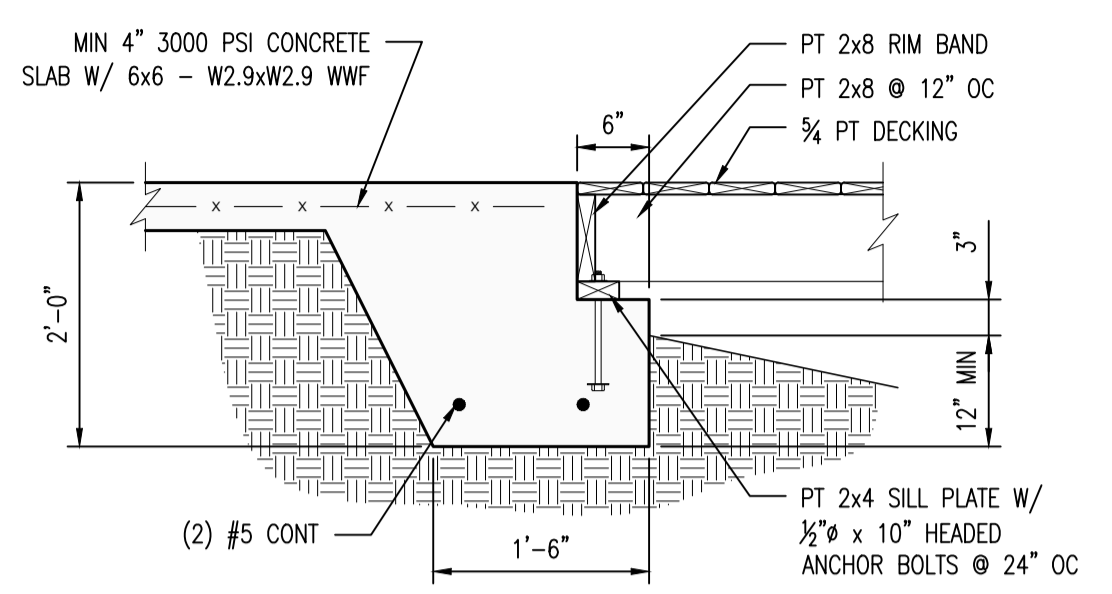
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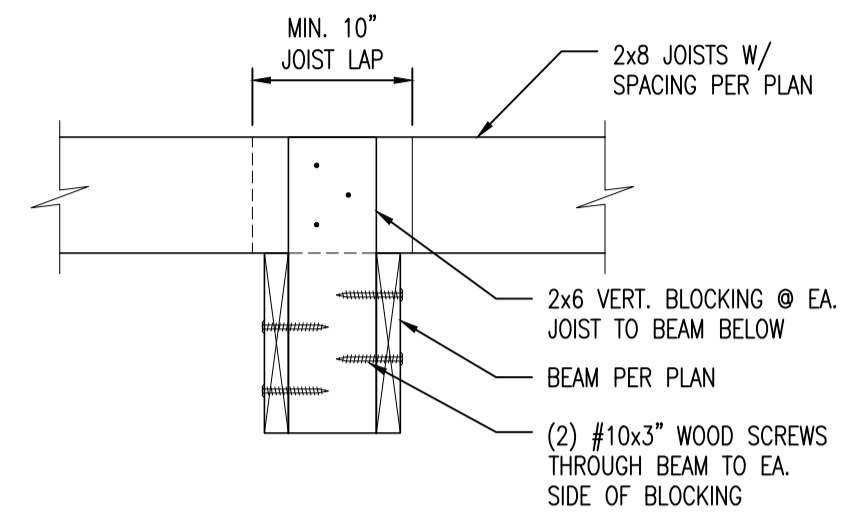
PATRICK M. MCKEE, P.E. Florida Engineer #63122
PROJECT NO.: 15-0513.004
SCALE: AS SHOWN
DATE: 02/01/19
DRAWING: CS0.1



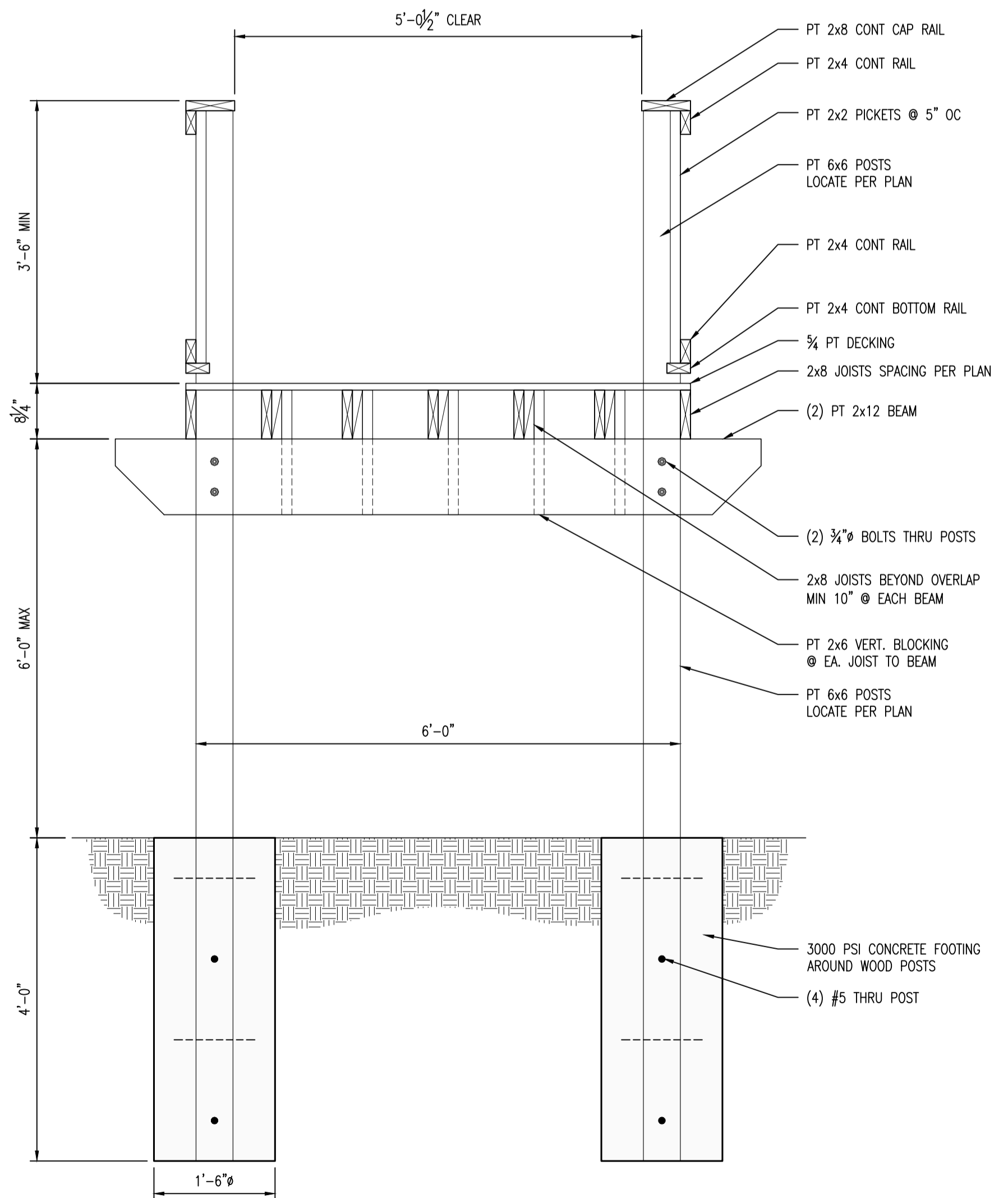




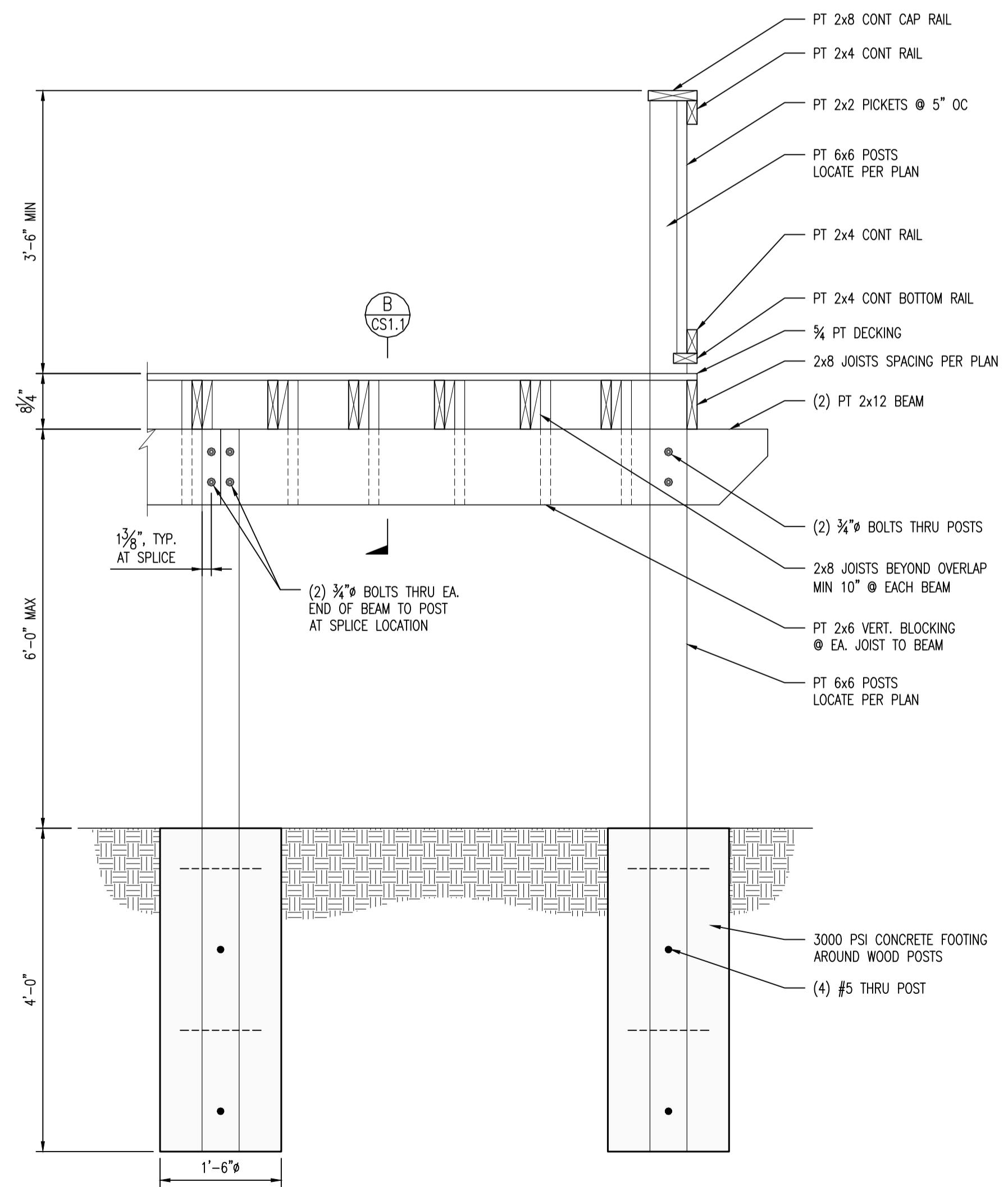
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SCALE: 3/4"=1'-0" CS1.1



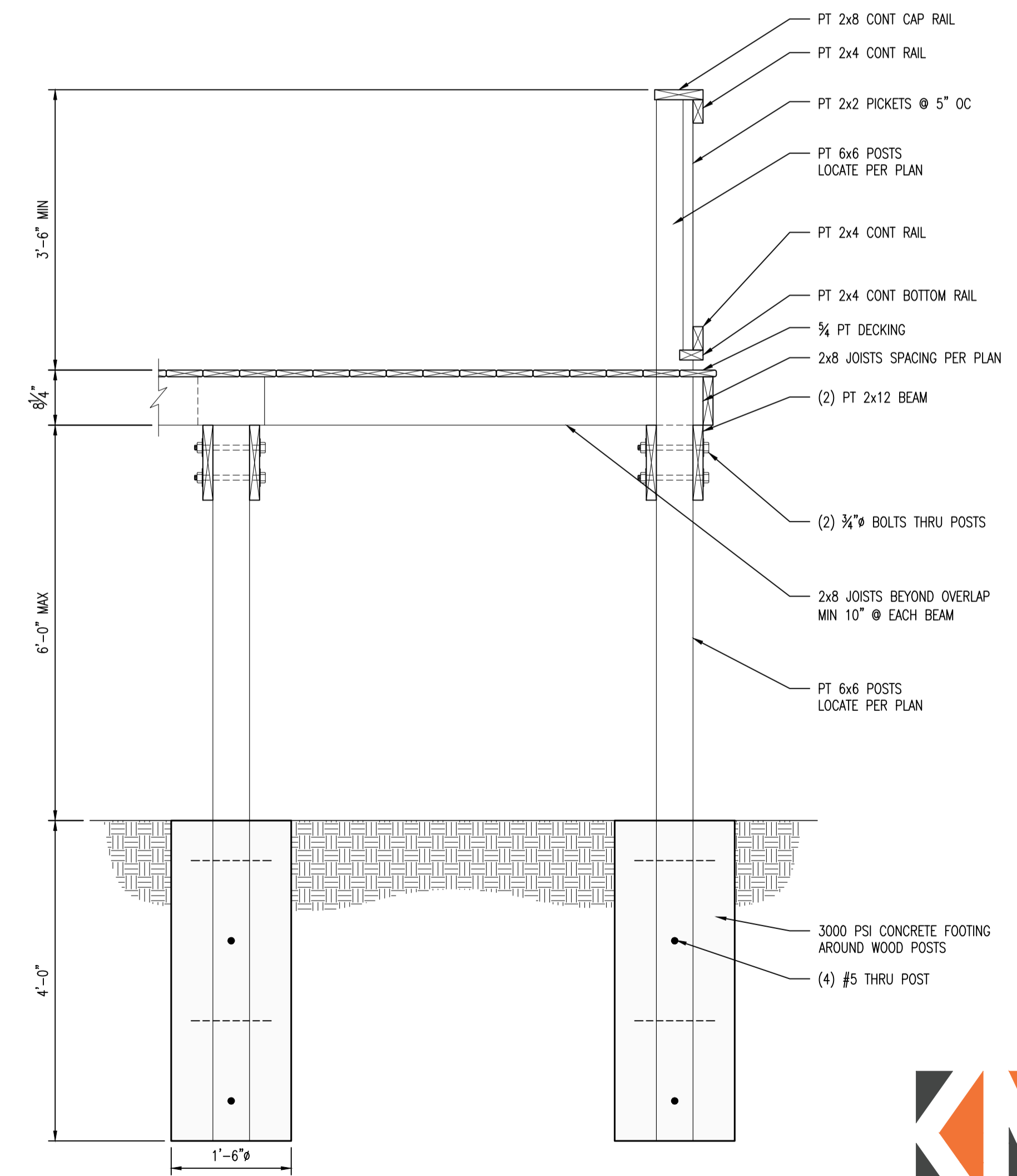
JOIST TO BEAM CONNECTION **B**  
SCALE: 1"=1'-0" CS1.1



WALKWAY SECTION **C**  
SCALE: 3/4"=1'-0" CS1.1



DECK SECTION **D**  
SCALE: 3/4"=1'-0" CS1.1



DECK SECTION **E**  
SCALE: 3/4"=1'-0" CS1.1

TYP OVERLOOK DETAILS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY

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DRAWING:  
CS1.1

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

# EXHIBIT "B"

Attachment J42

ARMSTRONG TREE SERVICE  
4426 RABBIT POND RD  
TALLAHASSEE, FL 32309

October 3, 2019

Dyer, Riddle, Mills & Precourt  
1435 E Piedmont Dr  
Suite 210  
Tallahassee, FL 32308

## **Tree mitigation for Apalachee Regional Park**

The proposed construction of new overlooks, installing new force main and water lines, a privacy fence and a storm water drain pipe will impact the critical protection zones of trees in these areas.

The fence will have posts set every 8'. Holes for these posts dug within the CPZ of any tree must be dug by hand. If roots are encountered that are 3" or larger, the location of the hole should be shifted to avoid cutting these roots. No heavy equipment is to be used inside the CPZs

The least damaging is the overlooks. The trails to the overlooks must be built at or above grade with no more than 2" of excavation. The structures are planned for post supports and these are placed sufficient distance from any tree to cause harm as long as the same treatment detailed above for the fence posts is followed.

The new water lines and force main lines will be placed in trenches along and in some places inside the roadway. Roots must be pruned prior to excavation of the trenches wherever they intersect the CPC of any tree. Tree barricades must be installed along the root pruning lines to protect the rest of the CPZs. If it is necessary to dig the trench through the root plate of a tree defined as 4 x DBH then the tree must be removed.

The storm water pipe will have minor disturbance to 2 oaks and this can be accommodated by root pruning and tree barricades.

## MITIGATION REQUIREMENTS

### ROOT PRUNING

Root pruning will occur prior to any excavation within the CPZ of the trees. No other work should be done between the root pruning line and the tree trunks. All pruned/cut roots exposed will be covered as soon as possible with topsoil, mulch, or other organic medium. A Certified Arborist must be on site during the excavation of the trenches. Any roots found deeper than the initial root pruning should be pruned.

### WATERING

Following root pruning and through substantial completion of the project, the tree will be watered at the rate equivalent to 1" of rainfall per week. Watering will be adjusted as required by the weather conditions. A rain gauge should be installed on site and monitored weekly by the site supervisor.

### TREE BARRICADES/MULCHING

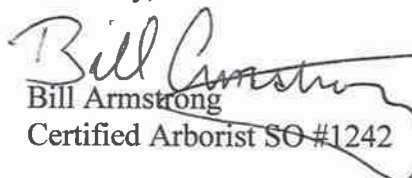
Tree protection barricades or fences will be installed after the root pruning is completed. The locations of these fences are shown on the site plans for this project designed by DRMP. These fences are to prevent root and soil compaction resulting from vehicular traffic, equipment storage, or material stock piling. Under no circumstances should this barricade line be crossed. No other disturbances, including installation of any landscaping or plantings, should occur in this protected area.

### SUPERVISION AND MONITORING

All arboricultural work is to be supervised by a Certified Arborist.

This mitigation plan is recommended to assist the impacted trees recovery from the root damage incurred from the proposed construction. Complete success cannot be guaranteed due to the many unknowns associated with the natural world.

Sincerely,

  
Bill Armstrong  
Certified Arborist SO #1242