



HORACE ROAD DRAINAGE MAINTENANCE

COMMISSIONERS:

BILL PROCTOR
DISTRICT 1

JANE G. SAULS
DISTRICT 2

JOHN E. DAILEY
DISTRICT 3

BRYAN DESLOGE
DISTRICT 4

KRISTIN DOZIER
DISTRICT 5,
CHAIRMAN

NICK MADDOX
AT-LARGE

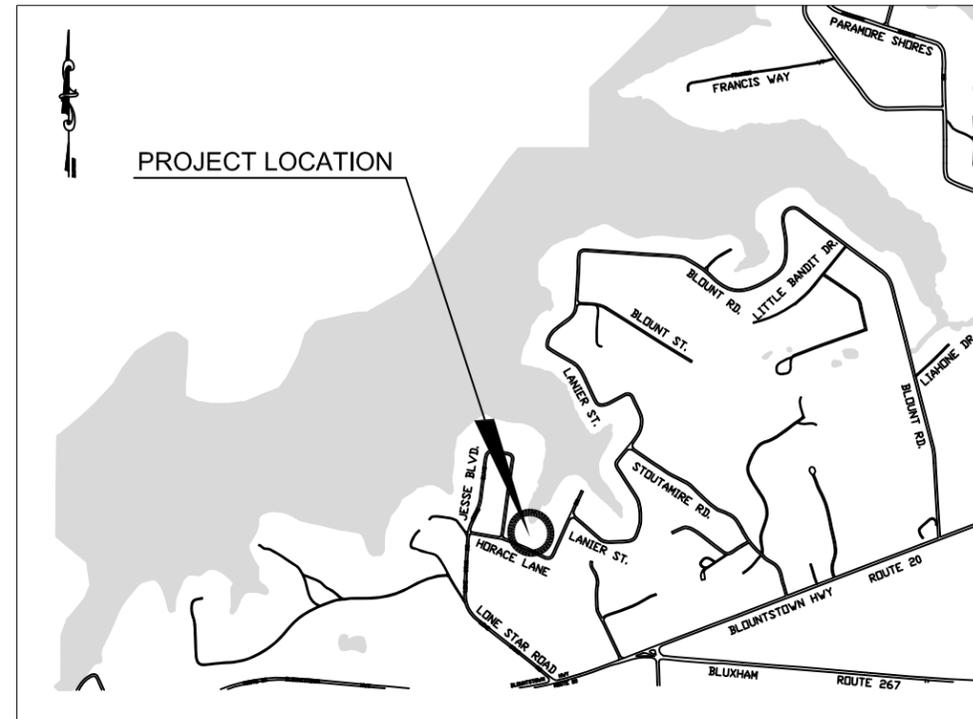
MARY ANN LINDLEY
AT-LARGE, VICE CHAIRMAN

VINCENT S. LONG
COUNTY ADMINISTRATOR

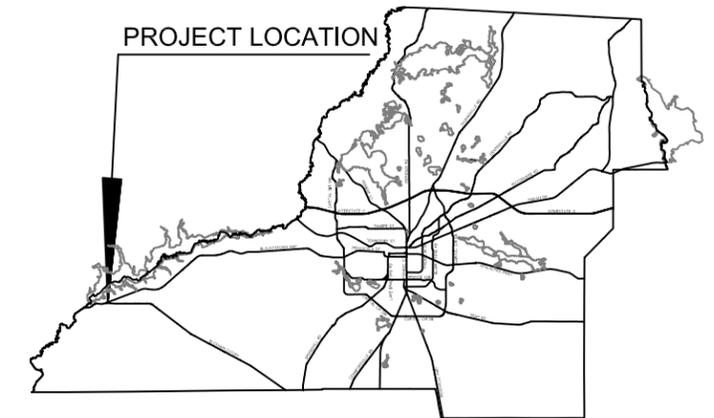
HERBERT W. A. THIELE
COUNTY ATTORNEY

TONY PARK, P.E.
DIRECTOR OF PUBLIC WORKS AND
COMMUNITY DEVELOPMENT

KATHERINE G. BURKE, P.E.
DIRECTOR OF ENGINEERING SERVICES



LOCATION MAP



VICINITY MAP

PLANS INDEX

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LEON COUNTY Department of Public Works Division of Engineering Services

Public Works Center
2280 Miccosukee Road, Tallahassee, FL 32308-5310
Ph: (850) 606-1500 Fax: (850) 606-1501
Web: <http://www.leoncountyfl.gov>

PLANS PREPARED BY:

EGS

104 North Magnolia Drive
Tallahassee, Florida 32301
Phone: (850) 386-1253
Certificate of Authorization # 6222

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS
DATED JANUARY 2010, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2010, AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ENGINEER OF RECORD:

Myron L. Hayden, P.E.
Florida P.E. Registration No. 34067

Date: _____

SHEET
NO.

1 OF 12

GENERAL NOTES

- THE CONTRACTOR SHALL LOCATE AND SUBMIT FOR THE COUNTY ENVIRONMENTAL INSPECTOR AND ENGINEER'S APPROVAL A STAGING AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE STAGING AREA SHALL BE LOCATED WITHIN UPLAND AREAS AND SHALL NOT IMPACT WETLANDS AND/OR OTHER SURFACE WATERS. THE CONTRACTOR IS ALSO RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS. IF THE STAGING AREA IS OUTSIDE COUNTY'S RIGHT-OF-WAY OR PROPERTIES, THE CONTRACTOR MAY BE REQUIRED TO OBTAIN A TEMPORARY STAGING AREA PERMIT FROM THE LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT DEPARTMENT.
- THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF CONSTRUCTION ACTIVITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING OF CONSTRUCTION AND COORDINATE SCHEDULES WITH UTILITY OWNERS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION.
- CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES, AERIAL LINES, BURIED CABLE, AND OTHER UTILITIES THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITIES.
- ADEQUATE PROVISIONS SHALL BE MADE FOR FLOW OF SEWERS, DRAINS, AND WATER COURSES IMPACTED BY CONSTRUCTION.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION AS EXISTED PRIOR TO CONSTRUCTION. ALL DISTURBED AREAS SHALL BE SODDED. SOD SHALL BE INSTALLED PERPENDICULAR TO THE EXPECTED FLOW AND PINNED FOR SLOPES 3H:1V OR GREATER. SODDING ACTIVITIES SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION NO. 981 OR AS NOTED IN THESE PLANS. PIN SOD ON ALL SLOPES 3:1 OR STEEPER.
- NO SOIL WHICH IS EXCAVATED AS PART OF THE WORK WILL BE STOCKPILED WITHIN THE COUNTY EASEMENT.
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH THE PROJECT PRIOR TO BIDDING.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS.
- THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, HAY BALES, DITCHES OR OTHER MEANS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT ALL TIMES. THE LEON COUNTY ENVIRONMENTAL INSPECTOR MAY REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES, IF DEEMED NECESSARY.
- THESE DRAWINGS REPRESENT KNOWN STRUCTURES AND UTILITIES LOCATED IN THE PROJECT AREA. THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES, ABOVE OR BELOW GROUND MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON ENCOUNTERING ANY UNEXPECTED STRUCTURE, UTILITY LINE OR OTHER UNUSUAL CONDITION. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- IF EXISTING UTILITY LINES ARE DISTURBED DUE TO CONSTRUCTION ACTIVITY, CONTRACTOR WILL BE RESPONSIBLE TO RELOCATE OR RECONSTRUCT AS PER UTILITY REQUIREMENTS.
- IN CASES WHERE CONSTRUCTION IS REFERENCED BY FDOT STANDARD INDEXES, ALL CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX, 2010 EDITION. MISCELLANEOUS CONSTRUCTION NOT SPECIFICALLY DETAILED SHALL ALSO BE ACCOMPLISHED IN ACCORDANCE WITH THESE STANDARDS.
- THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT LABOR FORCE TO UNDERTAKE THE SCOPE OF WORK THAT IS TO BE PERFORMED. IF AT ANY TIME, DURING THE WORKING DAY, THE ON SITE INSPECTOR BELIEVES THAT ADEQUATE PERSONNEL ARE NOT BEING PROVIDED, THE ON SITE INSPECTOR MAY STOP WORK ACTIVITIES UNTIL THE CONTRACTOR CORRECTS THE SITUATION. THE CONTRACTOR'S SUPERINTENDENT SHALL SUPERVISE AND COORDINATE THE WORK IN PROGRESS WITH THE ON-SITE INSPECTOR.
- LEON COUNTY SHALL RESERVE THE RIGHT TO SAMPLE ANY AND ALL MATERIALS TO DETERMINE THAT MATERIALS MEET SPECIFICATIONS. FAILURE TO MEET SPECIFICATIONS SHALL BE CAUSE FOR CANCELLATION OF DELIVERY, REJECTION OF MATERIALS PROVIDED FOR PARTIAL OR FULL PAYMENT, OR A DEDUCTION AS DETERMINED BY THE COUNTY REPRESENTATIVE. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY OF PROVIDING MATERIALS THAT MEETS SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING STREETS AND PRIVATE ENTRANCES THROUGHOUT PROJECT CONSTRUCTION. THIS PROJECT ANTICIPATES THE NEED FOR TRAFFIC CONTROL DEVICES LISTED IN THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD INDICES.
- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING, DANGER, DETOUR SIGNS, ADEQUATE LIGHTS, AND TAKE ALL OTHER PRECAUTIONS TO PROTECT THE WORK AND THE PUBLIC.
- THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM THE ROADWAY AND THE SHOULDER DURING NON-WORKING HOURS TO ENSURE THE LEAST PRACTICABLE INTERFERENCE WITH TRAFFIC AND PEDESTRIANS.
- WORKING HOURS WILL NORMALLY BE FROM 8:30 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY, HOWEVER, UPON REQUEST OF THE CONTRACTOR, LEON COUNTY PUBLIC WORKS, MAY CONSIDER AN ALTERNATIVE TO THESE WORKING HOURS BASED ON THE TIME OF THE YEAR, SITE, WEATHER, AND TRAFFIC CONDITIONS. CONTRACTOR IS RESPONSIBLE THAT ALL WORK SHALL COMPLY WITH THE LEON COUNTY NOISE ORDINANCE.
- NO NIGHT WORK SHALL BE PERFORMED UNLESS ADEQUATE LIGHTING IS PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY FELTON ARD (850-606-1500) WITH THE LEON COUNTY DEPARTMENT OF PUBLIC WORKS AT LEAST 24 HOURS PRIOR TO ANY LANE CLOSURE.
- ANY MAINTENANCE OF TRAFFIC PLANS SHALL BE IN CONFORMANCE WITH FDOT STANDARD INDEX 603.
- THE CONTRACTOR SHALL POST ALL APPLICABLE PERMITS ON SITE.
- DE-WATERING:** THE CONTRACTOR SHALL PROVIDE AND OPERATE EQUIPMENT ADEQUATE TO KEEP ALL EXCAVATIONS AND TRENCHES FREE OF WATER. REMOVE ALL WATER DURING PERIODS WHEN FORMWORK IS BEING CONSTRUCTED, CONCRETE IS BEING PLACED, AND AT SUCH OTHER TIMES AS REQUIRED FOR EFFICIENT AND SAFE EXECUTION OF THE WORK. THE CONTRACTOR SHALL NOT CAUSE SETTLEMENT OR DAMAGE TO ADJACENT PROPERTY AND DISPOSE OF WATER IN A MANNER THAT WILL NOT DAMAGE ADJACENT PROPERTY. WHEN DE-WATERING OPEN EXCAVATIONS, DE-WATER OUTSIDE THE STRUCTURAL LIMITS AND FROM A POINT BELOW THE BOTTOM OF THE EXCAVATION WHEN POSSIBLE. THE DE-WATERING SYSTEM SHALL BE DESIGNED TO PREVENT REMOVAL OF FINES FROM EXISTING GROUND. DEWATERING COST SHALL BE INCLUDED AS PART OF THE MOBILIZATION / DEMOBILIZATION COST.

THE CONTRACTOR SHALL HAVE THE DE-WATERING PLAN PRE-APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR PRIOR TO EXECUTION OF THE PLAN.
- STORMWATER MANAGEMENT CONTROL OFFICER:
MS. BETSY THORPE, CHIEF OF CONSTRUCTION MANAGEMENT FOR LEON COUNTY PUBLIC WORKS
(850) 606-1522

COMPACTION

- ALL BEARING SURFACES SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE SOILS STANDARD PROCTOR DRY DENSITY OR AS APPROVED BY THE ENGINEER.

DEMOLITION PLAN

- RELOCATE EXISTING 2-INCH IRON WATER LINE OUTSIDE OF THE DRAINAGE STRUCTURE AREA. COORDINATE WITH THE WATER UTILITY PROVIDER AS NECESSARY AND RELOCATE EXISTING WATER LINE IN ACCORDANCE WITH THE WATER UTILITY PROVIDER.
- REMOVE EXISTING SAND-CEMENT BAG SIDEWALLS WITHOUT DAMAGING THE EXISTING 30-INCH CORRUGATED PLASTIC PIPE. THE DEMOLISHED MATERIAL SHALL BE REMOVED, TRANSPORTED, AND DISPOSED OF BY THE CONTRACTOR AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL PRACTICES AND SHALL NOT BE STORED ON SITE.

CONCRETE DRAINAGE STRUCTURE

- THE CONCRETE DRAINAGE STRUCTURE SHALL BE CONSTRUCTED USING 3000 PSI FIBER REINFORCED CONCRETE.
- ALL CEMENT SHALL BE CLASS I.

30-INCH CORRUGATED PLASTIC PIPE EXTENSION

THE EXISTING 30-INCH CORRUGATED PLASTIC PIPE (CPP) SHALL BE EXTENDED USING A SECTION OF 30-INCH CPP WITH A "BELL" END TO SLIP OVER THE EXISTING PIPE.

ENERGY DISSIPATERS

- PRIOR TO SETUP OF THE CONCRETE DITCH PAVEMENT, A PREFORMED NO. 6 REBAR CAGE SHALL BE CONSTRUCTED AND PLACED AT THE LOCATIONS OF THE ENERGY DISSIPATERS.
- AFTER A MINIMUM PERIOD OF 24-HOURS, THE CMU BLOCK ENERGY DISSIPATERS SHALL BE PLACED OVER THE REBAR CAGE SECTIONS. THE OPEN CMU BLOCK CELLS SHALL BE SEALED USING A NON-EXPANSIVE CEMENTIOUS GROUT.
- THE INTERFACE BETWEEN THE BOTTOM OF THE CMU BLOCK ENERGY DISSIPATER AND THE CONCRETE DITCH SECTION SHALL BE SEALED USING AN HIGH STRENGTH EXPANSIVE EPOXY GROUT.

CONCRETE DRAINAGE CHANNEL

THE CONCRETE DRAINAGE CHANNEL WEST OF THE DRAINAGE STRUCTURE SHALL BE CONSTRUCTED USING 3000 PSI FIBER REINFORCED CONCRETE.

RIPRAP

- PRIOR TO THE PLACEMENT OF RIPRAP, TYPE D-2 WOVEN GEOTEXTILE AS DEFINED IN FDOT STANDARD INDEX 199 SHALL BE PLACED AS SHOWN ON THE DETAILS SHEET.
- RIPRAP SHALL BE FDOT RUBBLE (DITCH LINING) AS DESCRIBED IN SECTION 530-2.2.2 IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SPILL CONTROL PRACTICES

THE CONTRACTOR IS RESPONSIBLE TO FOLLOW THE FOLLOWING PRACTICES FOR SPILL PREVENTION AND CLEANUP AT CONTRACTOR'S EXPENSES.

- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE POSSESSION OF THE SITE SUPERINTENDENT ONSITE AT ALL TIMES. THIS PLAN WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE LEON COUNTY INSPECTOR IMMEDIATELY.
- THE SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE MAY DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE STAGING AREA AND KEPT WITH THE SITE SUPERINTENDENT ONSITE AT ALL TIMES.
- USE AND CHARACTERISTICS OF FUEL OR CHEMICAL STORAGE TANK ON SITE SHALL COMPLY WITH ALL RELATED FEDERAL, STATE, AND LOCAL REGULATIONS. STORAGE TANKS MUST BE LOCATED AS FAR AS POSSIBLE FROM ANY DRAINAGE STRUCTURES, DITCHES, AND/OR SURFACE WATERS. IN ADDITION, THE CONTRACTOR MUST PROVIDE A SECONDARY CONTAINMENT WITH A LINER CHEMICALLY RESISTANT TO THE FUEL OR CHEMICAL STORED ON SITE. THE SECONDARY CONTAINMENT MUST BE SIZED TO CONTAIN MINIMUM OF ONE AND A HALF TIMES THE TOTAL CAPACITY OF STORAGE TANK BEING USED. CONTRACTOR HAS TO PROVIDE A DAILY INSPECTION LOG FOR THE SECONDARY CONTAINMENT WITH INDICATION OF DATE, INSPECTORS NAME AND INSPECTION REPORT. FURTHERMORE, ANY CONTAMINATION HAS TO BE IMMEDIATELY CONTAINED AND THE COUNTY INSPECTOR MUST BE NOTIFIED OF THE NATURE AND EXTEND OF THE CONTAMINATION.

EROSION MAT

- EROSION MAT SHALL BE FDOT TYPE E-3 AS DESCRIBED IN FDOT STANDARD INDEX 199.
- EROSION MAT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

SOD

- THE CONTRACTOR SHALL USE CENTIPEDE SOD.

REVISIONS						SEAL:	Environmental & Geotechnical Specialists, Inc.  104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050 Cert. of Auth.: 6222	LEON COUNTY DEPARTMENT OF PUBLIC WORKS PROJECT TITLE HORACE ROAD DRAINAGE MAINTENANCE	GENERAL NOTES AND QUANTITIES (1 OF 2)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					2 OF 12
						M. HAYDEN, P.E.				
						P.E. NO.: 34067				

CONSTRUCTION SEQUENCE

1. CONSTRUCTION SHALL NOT COMMENCE PRIOR TO LEON COUNTY DEPARTMENT OF PUBLIC WORKS ISSUING A NOTICE TO PROCEED.
2. THE CONTRACTOR SHALL COMPLETE THE WORK IN AS SHORT A TIMEFRAME AS POSSIBLE AND WHEN RAINFALL IS NOT PREDICTED.
3. THE CONTRACTOR SHALL SUBMIT TO LEON COUNTY FOR APPROVAL ANY CHANGES TO THE CONSTRUCTION SEQUENCE AS PRESENTED HERE.
4. THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH LEON COUNTY ENVIRONMENTAL COMPLIANCE DIVISION PRIOR TO ANY CONSTRUCTION ACTIVITY.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CALL SUNSHINE LOCATE AT 1-800-432-4770 OR 811 TO CONFIRM UNDERGROUND UTILITY LINES 48 HOURS BEFORE DIGGING. THE CONTRACTOR SHALL SUBMIT TO LEON COUNTY NOTICE OF CONSTRUCTION COMMENCEMENT.
6. THE CONTRACTOR SHALL CONSTRUCT PERIMETER SEDIMENTATION/EROSION CONTROLS AND CLEARLY "FLAG" THE LIMITS OF CONSTRUCTION. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR.
7. THE CONTRACTOR SHALL CUT THE EXISTING CONCRETE DRAINAGE CHANNEL WHERE IT MEETS THE EXISTING SAND-CEMENT BAG SIDEWALL.
8. THE CONTRACTOR SHALL PERFORM DEMOLITION.
9. THE CONTRACTOR SHALL INSTALL EXTENDED SECTION OF 30-INCH CORRUGATED PLASTIC PIPE.
10. THE CONTRACTOR SHALL CONSTRUCT THE CONCRETE DRAINAGE STRUCTURE.
11. THE CONTRACTOR SHALL TRIM THE 30-INCH CORRUGATED PLASTIC PIPE TO THE FACE OF THE CONSTRUCTED HEADWALL.
12. THE CONTRACTOR SHALL INSTALL THE ENERGY DISSIPATERS.
13. THE CONTRACTOR SHALL PLACE FILL SOILS BEHIND SIDEWALLS AND COMPACT.
14. THE CONTRACTOR SHALL PLACE THE RIPRAP AS SHOWN ON THE DETAILS SHEET.
15. THE CONTRACTOR SHALL CONSTRUCT THE EXTENDED CONCRETE DRAINAGE CHANNEL TO THE DRAINAGE STRUCTURE.
16. THE CONTRACTOR SHALL REGRADE EXISTING SLOPES AND LAY EROSION MAT AS SHOWN IN THE DETAILS SHEET.
17. THE CONTRACTOR SHALL CLEAN UP THE JOB SITE AND DEMOBILIZE CONSTRUCTION EQUIPMENT.
18. THE LEON COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE RESPONSIBLE FOR CONSTRUCTION INSPECTION AND SHALL SUBMIT AN AS-BUILT SURVEY AND AN ENGINEERING COMPLIANCE LETTER TO LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT FOR REVIEW AT LEAST 20 DAYS PRIOR TO A FINAL INSPECTION.

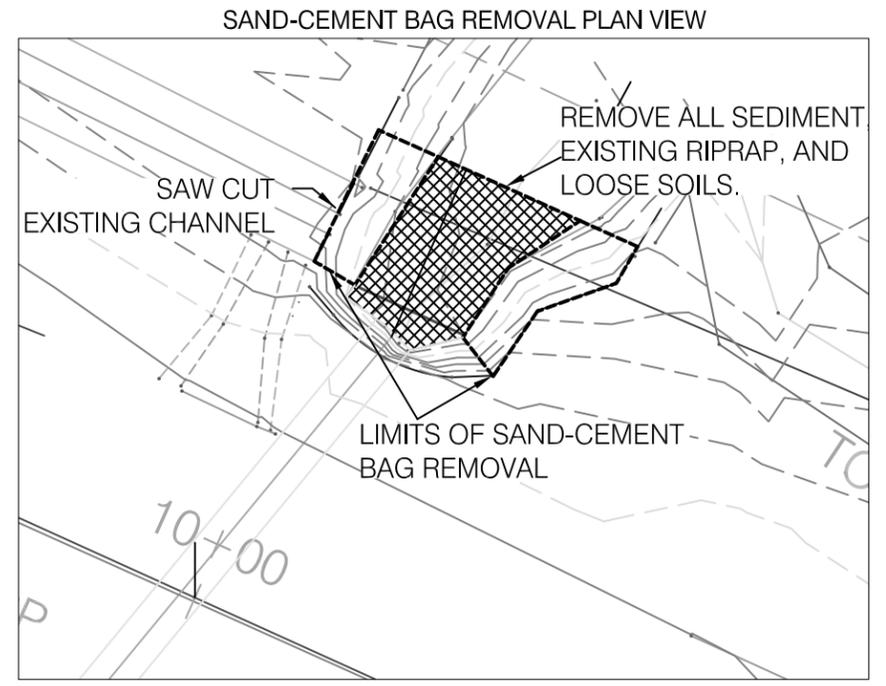
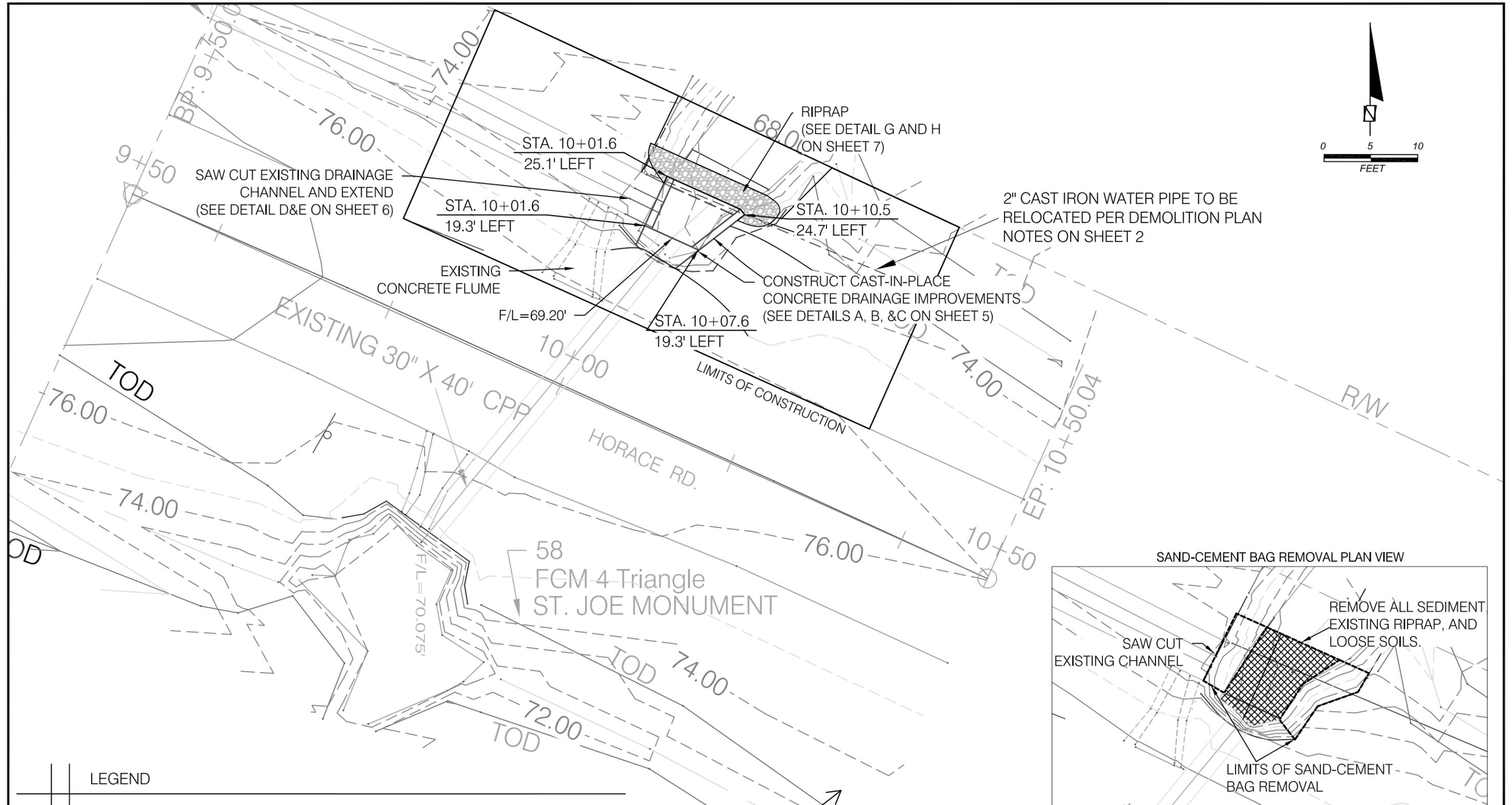
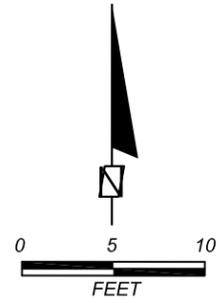
ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
102-1	MAINTENANCE OF TRAFFIC	DA	40
	*SOIL REMOVAL FROM SITE	CY	3
	EXISTING SAND-CEMENT BAG EXCAVATION AND REMOVAL FROM SITE	SF	75
514-71-1	TYPE D-2 FILTER FABRIC	SY	3
524	FIBER REINFORCED CONCRETE	CY	11
	ALL STEEL REINFORCEMENT	LUMP SUM	1
	CMU BLOCKS	EACH	10
	GROUTED RIPRAP - DITCH LINING	TN	5
120-6	FILL SOILS	CY	6
	SOD	LUMP SUM	1
	FDOT TYPE E-3 EROSION MAT	SY	9
104-10-3	SYNTHETIC BALES	LF	60
104-11	FLOATING TURBIDITY BARRIER	LF	10
104-13-2	TYPE IV STAKED SILT FENCE (LABOR AND MATERIALS COST INCLUDED)	LF	60
	30" CORRUGATED PLASTIC PIPE	LF	3

*AS IDENTIFIED ON THE CONSTRUCTION PLANS

CORRECTIVE ACTIONS FOR OCCURENCE OF STRUCTURAL FAILURE (SINK FEATURE)

1. IF DURING CONSTRUCTION OR OPERATION OF THE STORMWATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER TO THE FLORIDAN AQUIFER SYSTEM, ALL CONSTRUCTION ACTIVITIES SHALL STOP IMMEDIATELY AND CORRECTIVE ACTIONS APPROVED BY THE ENGINEER SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWM) FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED. CONSTRUCTION ACTIVITY SHALL NOT RESUME UNTIL NOTIFIED BY NWFWM TO DO SO.

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						M. HAYDEN, P.E. P.E. NO.: 34067				



LEGEND

- EXISTING CONTOURS
- PROPOSED GRADING CONTOURS
- LIMITS OF RIPRAP

TBM #4 ELEV.=74.914'
 SN 60D 23" PINE
 STA. 10+45 27' RIGHT

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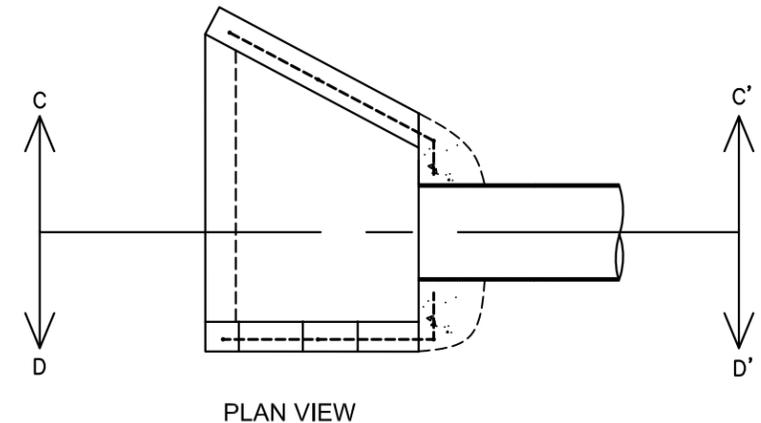
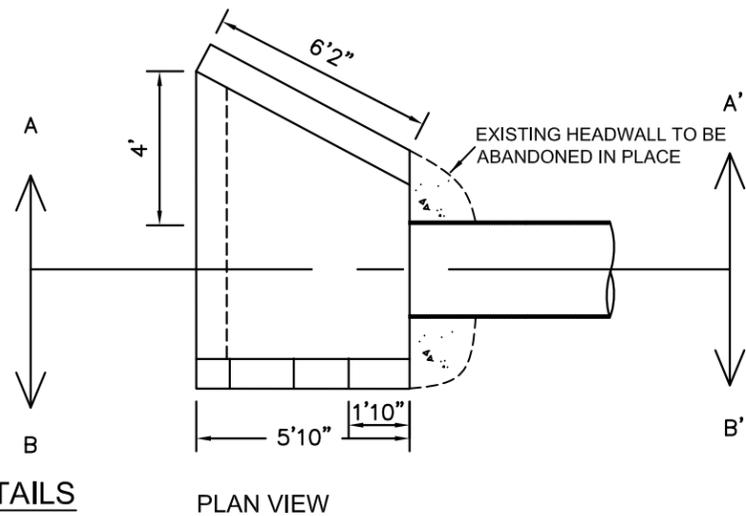
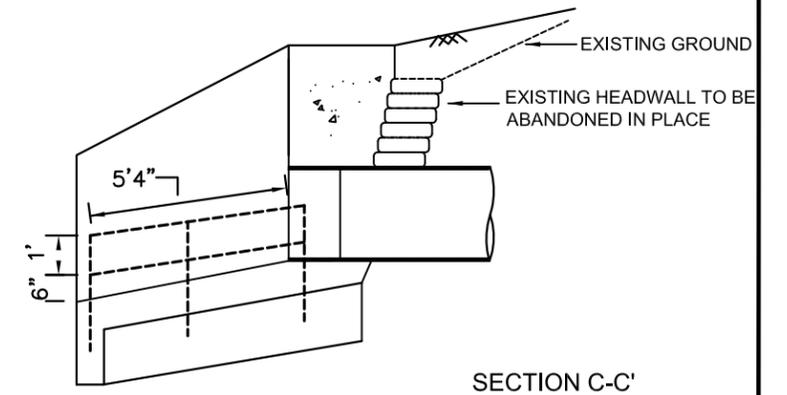
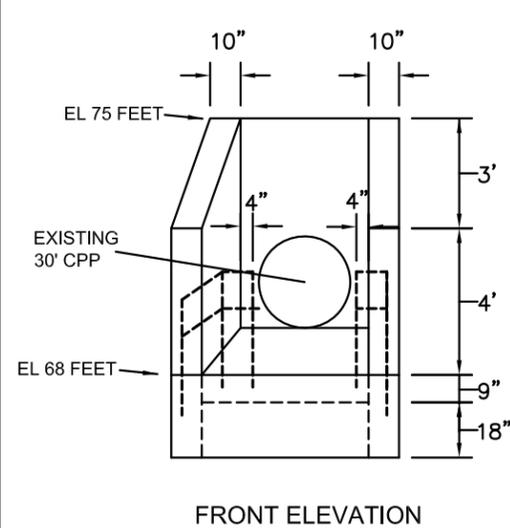
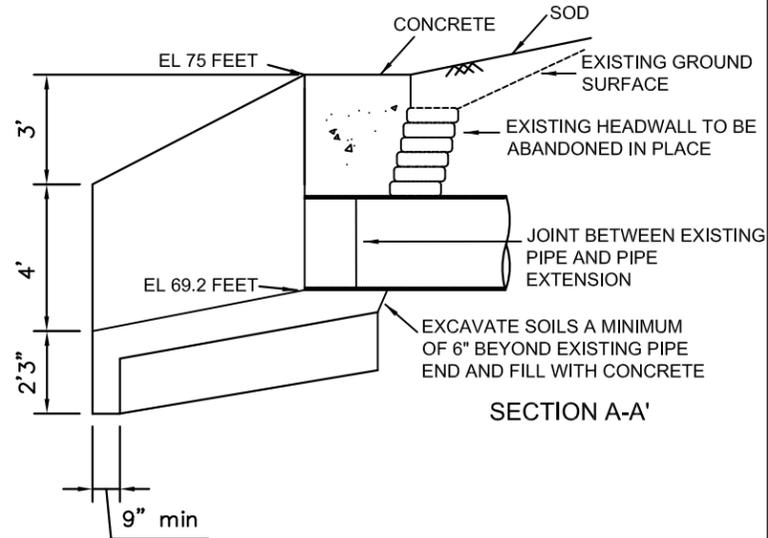
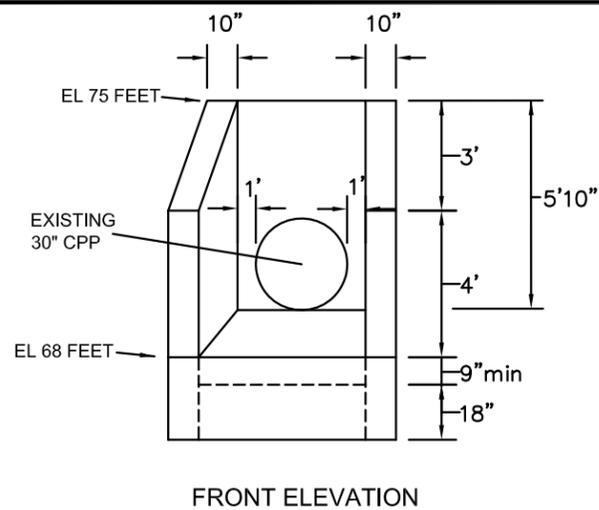
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LEON COUNTY
 DEPARTMENT OF PUBLIC WORKS
 PROJECT TITLE
 HORACE ROAD
 DRAINAGE MAINTENANCE

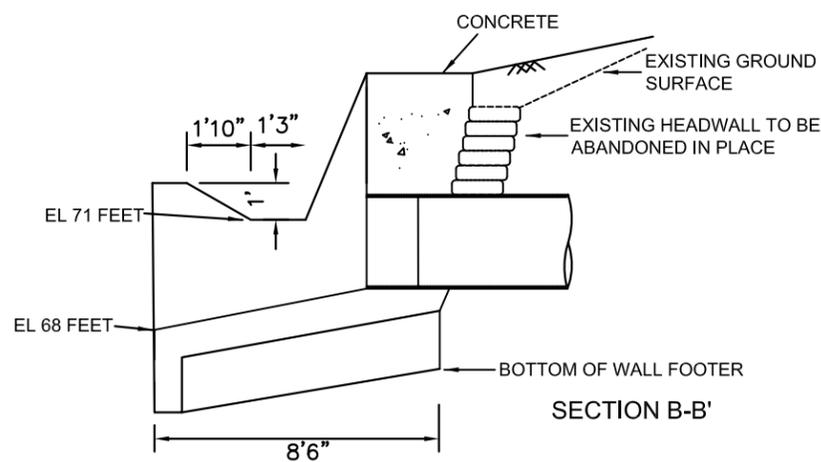
PROJECT LAYOUT

SHEET NO.
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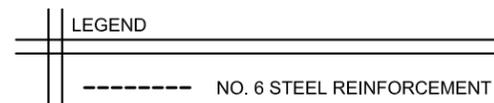


DETAIL A: DRAINAGE STRUCTURE DETAILS
NTS

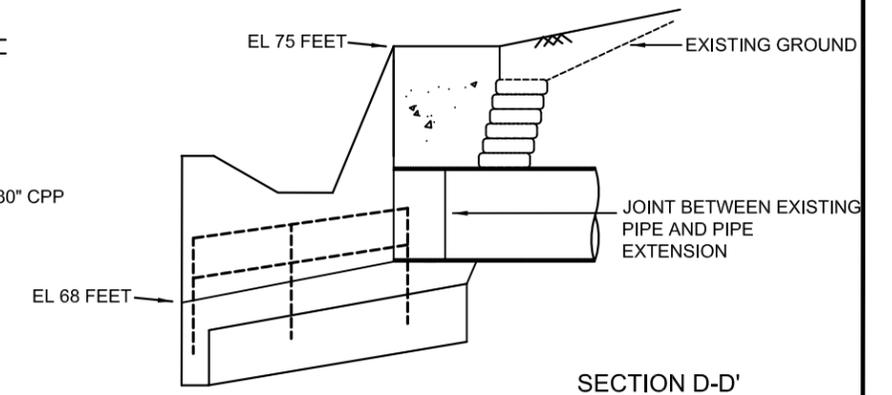
- NOTES:
1. CHAMFER ALL EXPOSED EDGES 3/4".
 2. REMOVE SEDIMENT AND LOOSE SOILS BELOW THE BOTTOM OF DRAINAGE STRUCTURE PRIOR TO PLACING CONCRETE.
 3. BEARING SURFACE SHALL BE COMPACTED TO MINIMUM OF 95% OF THE SOILS STANDARD PROCTOR DRY DENSITY OR AS APPROVED BY THE ENGINEER.



DETAIL B: STEEL REINFORCEMENT DETAILS
NTS



- NOTES:
1. MAINTAIN MIN 2" COVER BETWEEN THE EXISTING 30" CPP AND STEEL REINFORCEMENT.
 2. TIE REBAR WITH WIRES AT ALL JOINTS



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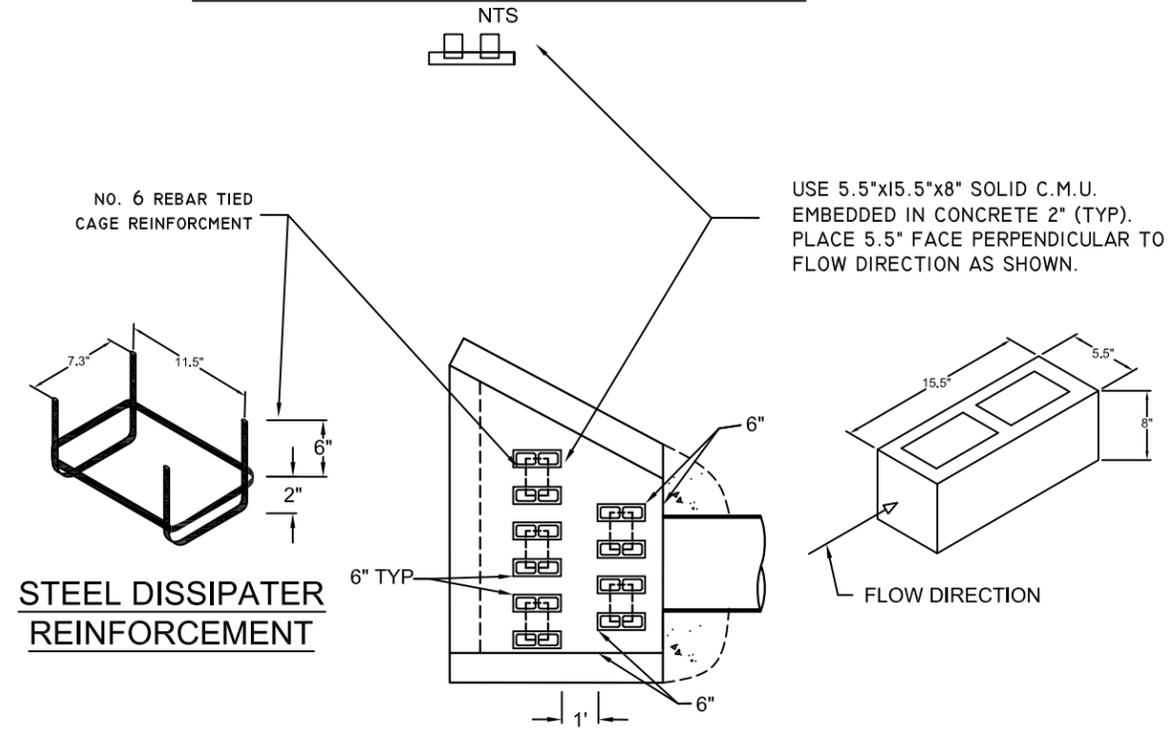
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HORACE ROAD
DRAINAGE MAINTENANCE

DRAINAGE MAINTENANCE DETAILS
(1 OF 3)

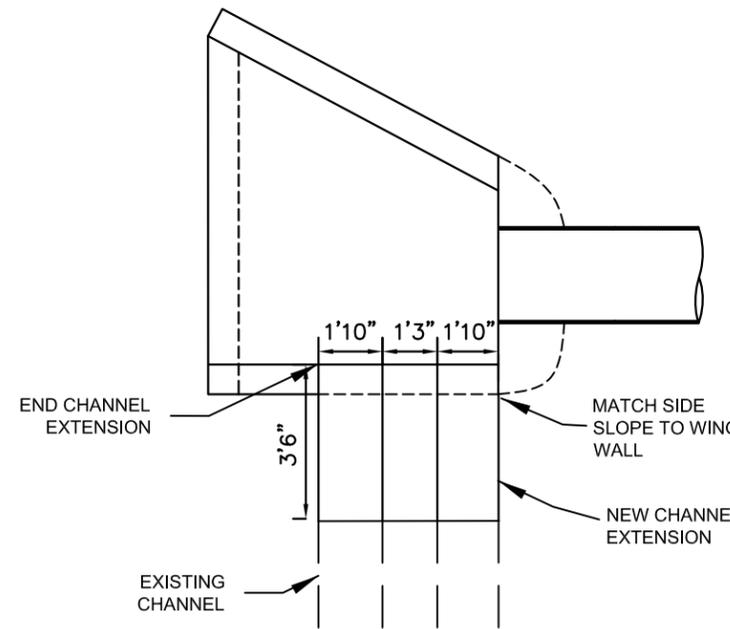
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TYPICAL ENERGY DISSIPATION SECTION

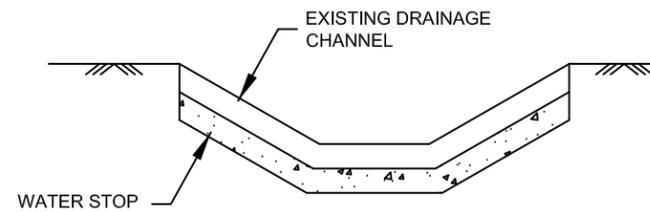
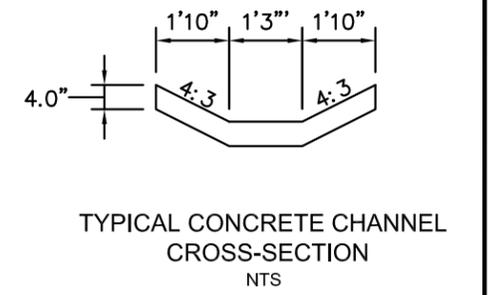


STEEL DISSIPATER REINFORCEMENT

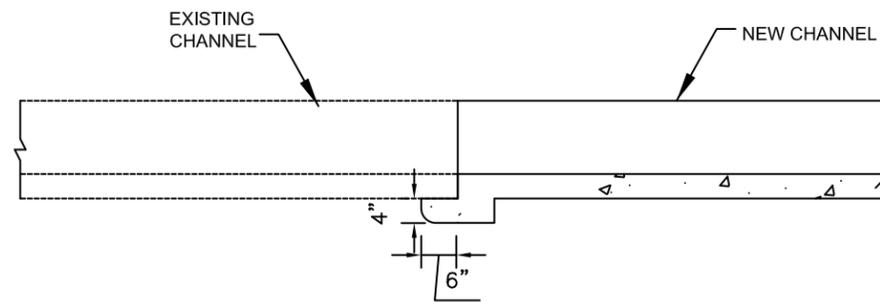
DETAIL C: TYPICAL ENERGY DISSIPATION
NTS



DETAIL D: PLAN VIEW OF CHANNEL CONSTRUCTION
NTS



CROSS-SECTION AT JOINT
NTS

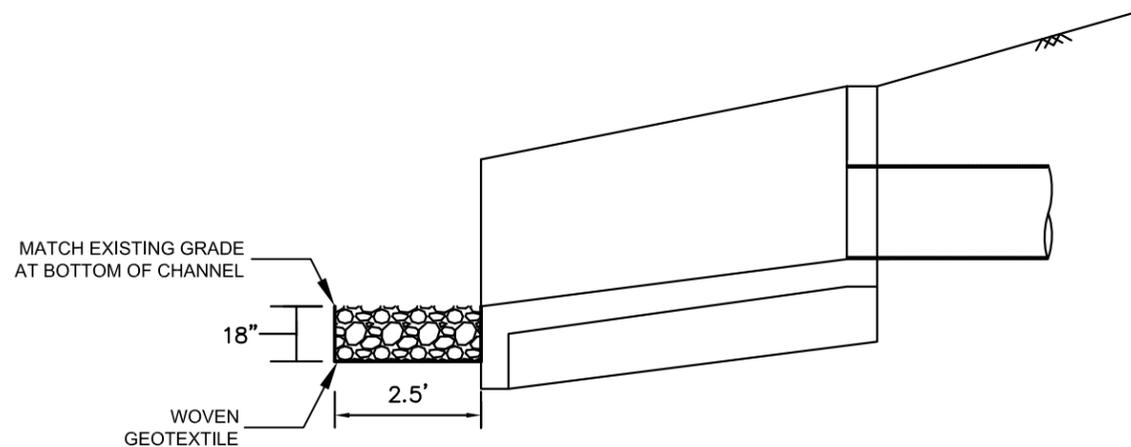
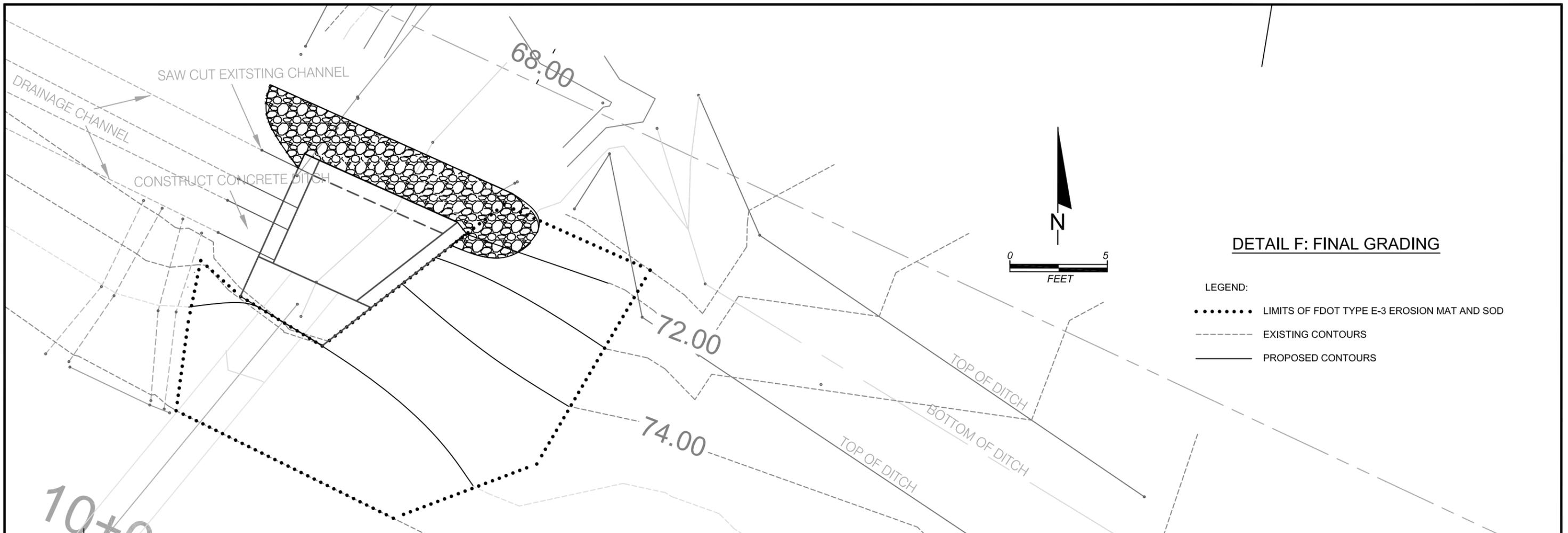


PROFILE VIEW OF JOINT AND WATER STOP
NTS

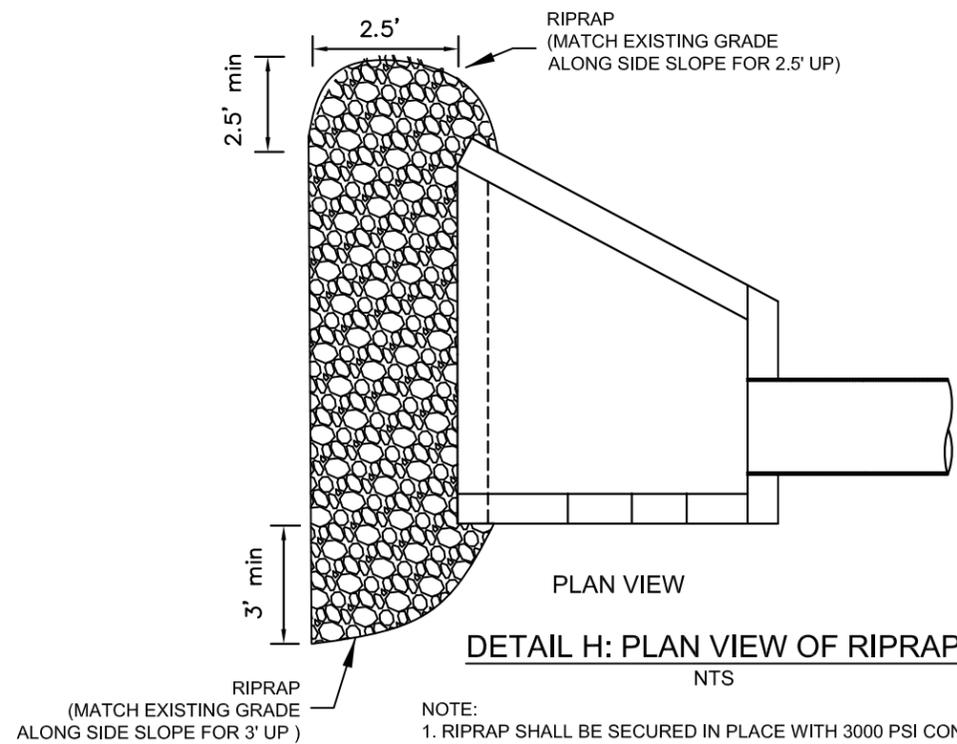
DETAIL E: CONNECTION OF NEW CHANNEL WITH EXISTING CHANNEL
NTS

- NOTE:
 1. EXCAVATE BENEATH THE EXISTING CONCRETE CHANNEL AS SHOWN ABOVE.
 2. BEARING SURFACE SHALL BE COMPACTED TO MINIMUM OF 95% OF THE SOILS STANDARD PROCTOR DRY DENSITY OR AS APPROVED BY THE ENGINEER.

REVISIONS						SEAL:	Environmental & Geotechnical Specialists, Inc. EGS 104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050 Cert. of Auth.: 6222	LEON COUNTY DEPARTMENT OF PUBLIC WORKS PROJECT TITLE HORACE ROAD DRAINAGE MAINTENANCE	DRAINAGE MAINTENANCE DETAILS (2 OF 3)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					6 OF 12
						M. HAYDEN, P.E. P.E. NO.: 34067				



DETAIL G: TYPICAL RIPRAP PROFILE
NTS



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

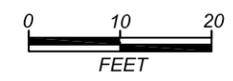
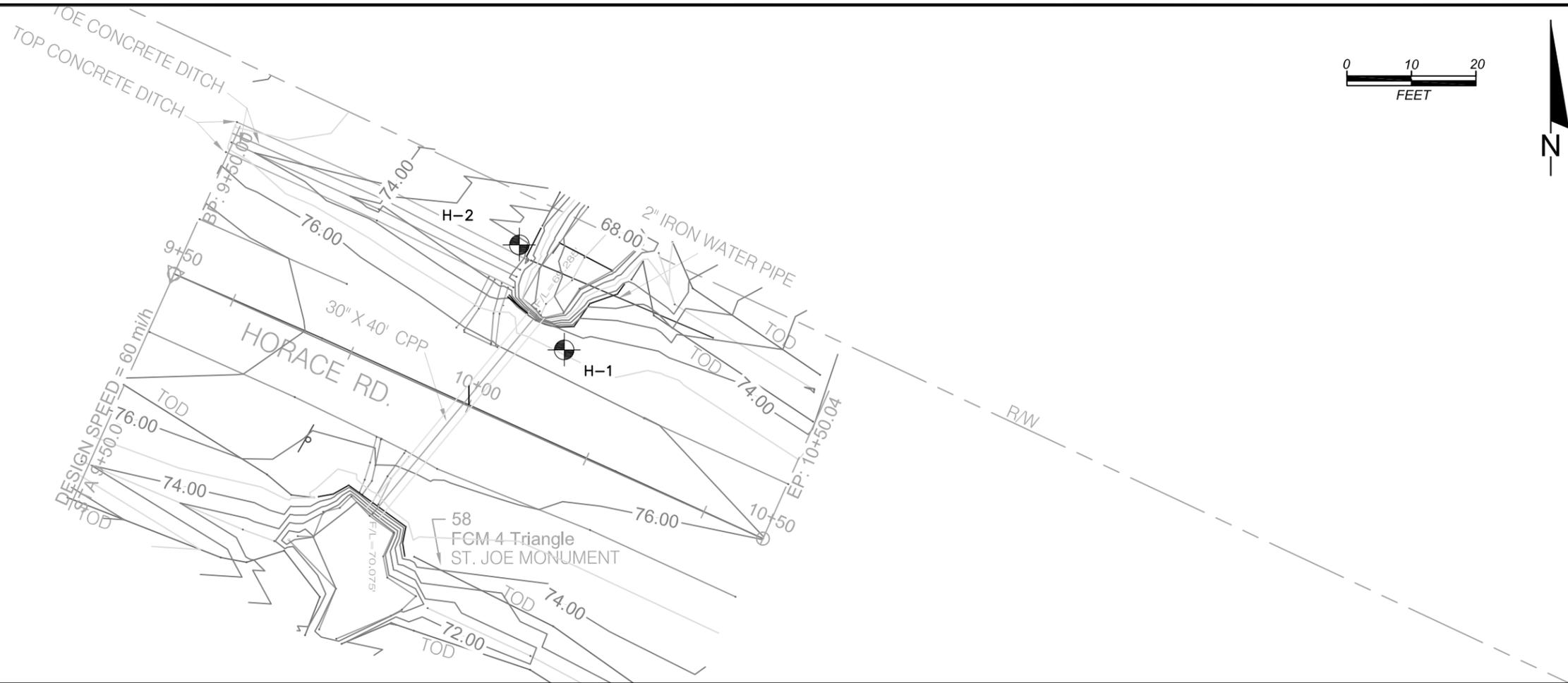
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P.E. NO.: 34067

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HORACE ROAD
DRAINAGE MAINTENANCE

DRAINAGE MAINTENANCE DETAILS
(3 OF 3)

SHEET NO.
7 OF 12



NOTES

1. NUMBERS LEFT OF SOIL BORINGS INDICATE EITHER STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT VALUES FOR 12-INCH PENETRATION (UNLESS OTHERWISE NOTED).
2. SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORINGS ONLY AND MAY NOT APPLY TO ANY OTHER LOCATION. EXTRAPOLATION OF THE SOIL BORING DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.
3. STRATA BOUNDARIES ARE APPROXIMATE.
4. FLUCTUATIONS IN THE DEPTH OF GROUNDWATER SHOULD BE EXPECTED.

LEGEND

- SOIL BORING LOCATION
 - DEPTH TO MEASURED GROUNDWATER
 - LABORATORY TESTING RESULTS
 - SILTY FINE SAND (SM)
 - CLAYEY TO CLAYEY FINE SAND (SC)
- WATER CONTENT (%) Wc=
 -200 SIEVE (%) -200=
 LIQUID LIMIT LL=
 PLASTICITY INDEX PI=
 (SM) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

STANDARD PENETRATION NOTES

Granular Materials Relative Density	SPT (blows/12 in.)	Silts and Clays Consistency	SPT (blows/12 in.)
Very Loose	Less than 4	Very Soft	Less than 2
Loose	4 - 10	Soft	2 - 4
Medium or Compact	10 - 30	Firm	4 - 8
Dense	30 - 50	Stiff	8 - 15
Very Dense	Greater than 50	Very Stiff	15 - 30
		Hard	Greater than 30

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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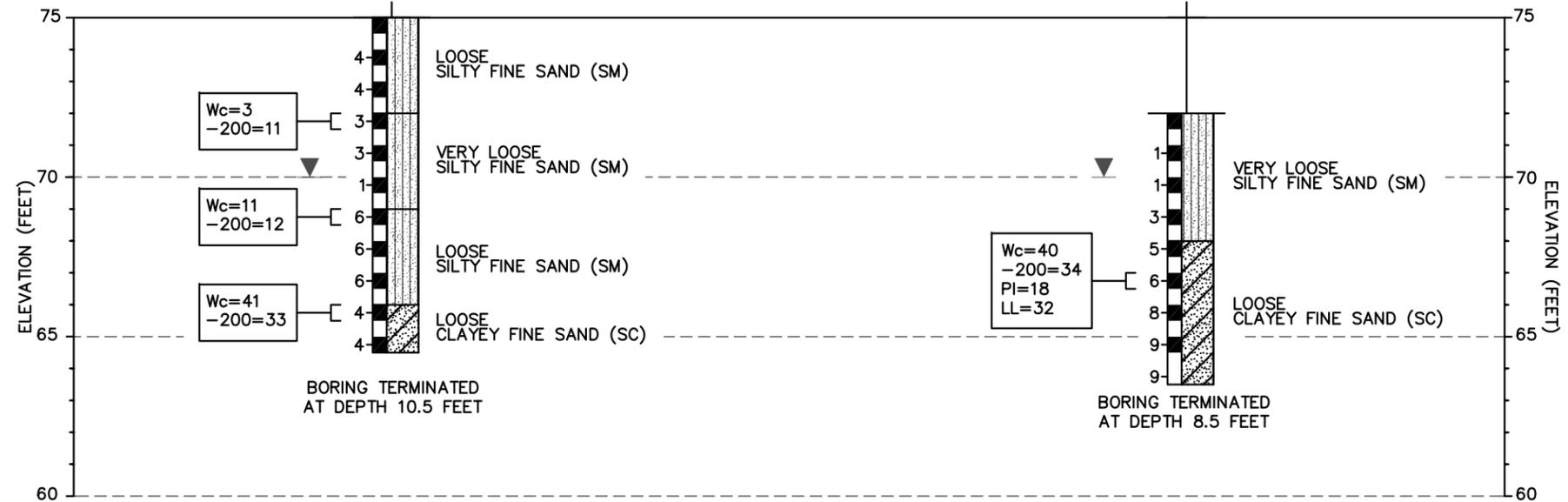
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 PROJECT TITLE
**HORACE ROAD
 DRAINAGE MAINTENANCE**

REPORT OF CORE BORINGS
 (1 OF 2)

SHEET NO.
8 OF 12

BORING # H-1
 NORTHING 506416
 EASTING 1926840
 DATE 9/6/2013
 DRILLER J. DAVIS
 ELEVATION 75 FEET
 HAMMER CPI

BORING # H-2
 NORTHING 506432
 EASTING 1926833
 DATE 9/6/2013
 DRILLER J. DAVIS
 ELEVATION 72 FEET
 HAMMER CPI



ENVIRONMENTAL CLASSIFICATION

BORING	DEPTH	pH	CLASSIFICATION	
			STEEL	CONCRETE
HORACE-1	4.0-4.5	6.56	MODERATELY AGGRESSIVE	SLIGHTLY AGGRESSIVE
	WATER	7.75	SLIGHTLY AGGRESSIVE	SLIGHTLY AGGRESSIVE
HORACE-2	6.0-7.5	6.55	MODERATELY AGGRESSIVE	SLIGHTLY AGGRESSIVE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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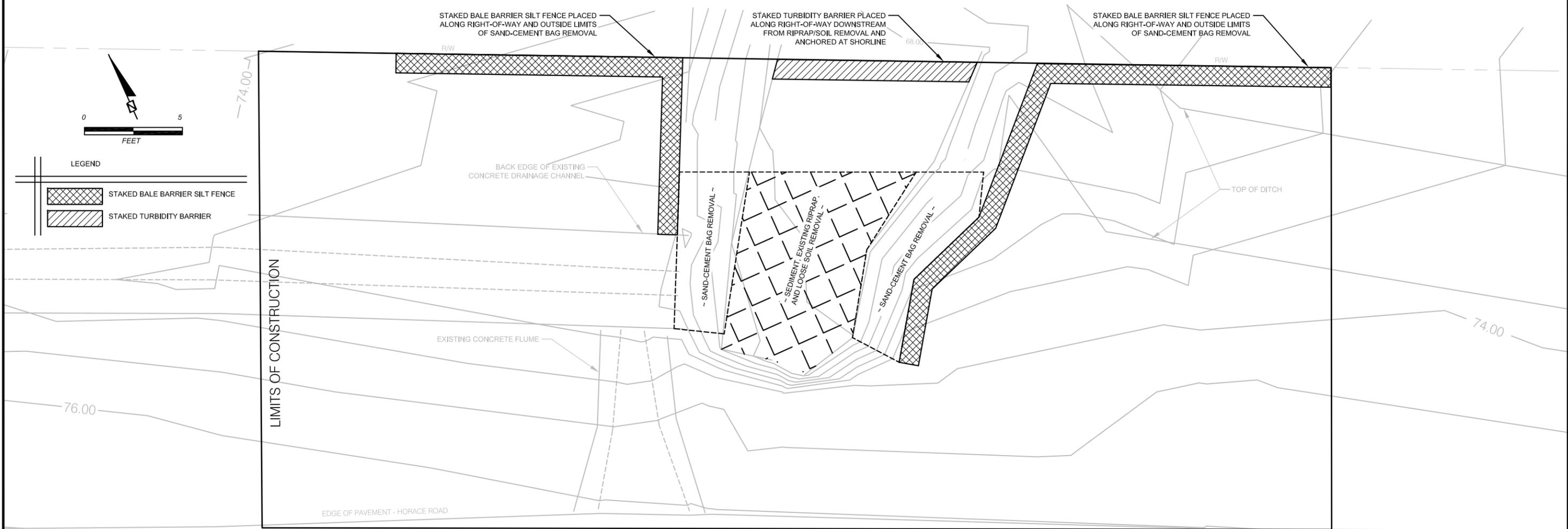
LEON COUNTY
 DEPARTMENT OF PUBLIC WORKS
 PROJECT TITLE
 HORACE ROAD
 DRAINAGE MAINTENANCE

REPORT OF CORE BORINGS
 (2 OF 2)

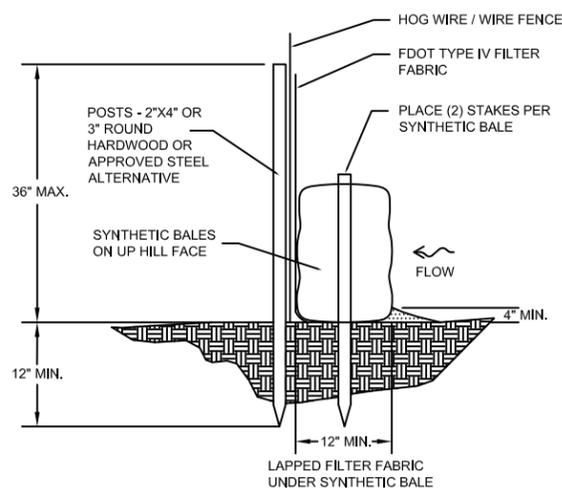
SHEET NO.

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EROSION CONTROL PLAN VIEW (SCALE AS SHOWN)



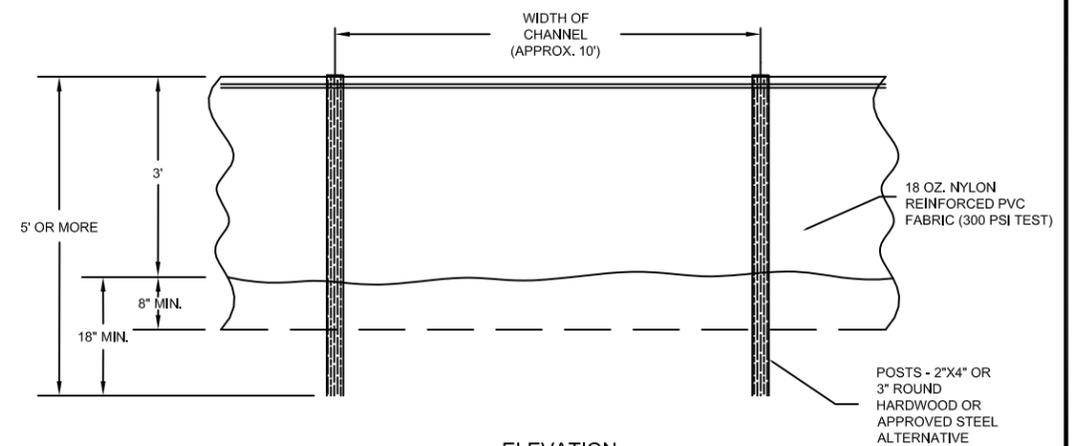
STAKED BALE BARRIER SILT FENCE DETAIL (N.T.S.)



NOTE:
STAKED BALE BARRIER SILT FENCE IS TO BE CONSTRUCTED ON TOP OF EXISTING GRADE (NOT TRENCHED).

ELEVATION

STAKED TURBIDITY BARRIER DETAIL (N.T.S.)



ELEVATION

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PROJECT TITLE
HORACE ROAD
DRAINAGE MAINTENANCE

EROSION CONTROL PLAN
PLAN & DETAILS

SHEET NO.

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