

COMMISSIONERS:

BILL PROCTOR DISTRICT I

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

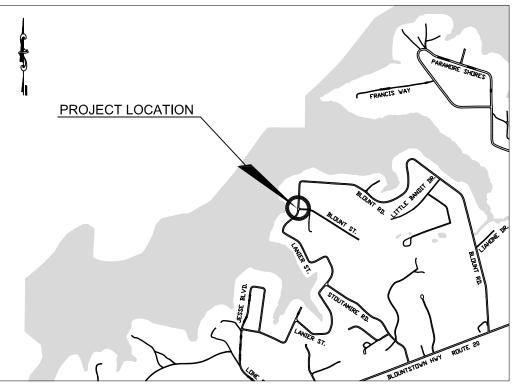
VINCENT S. LONG COUNTY ADMINISTRATOR

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

LANIER STREET **DRAINAGE MAINTENANCE**



LOCATION MAP

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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

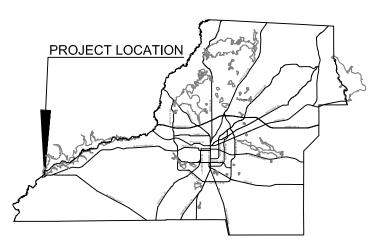
PLANS PREPARED BY:

EGS 104 North Magnolia Drive Tallahassee, Florida 32301

Phone: (850) 386-1253 Certificate of Authorization # 6222

	REVISIONS	-	
NO.	DESCRIPTION	BY	DATE

Date:



VICINITY MAP

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.

ENGINEER OF RECORD:

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

> SHEET NO.

GENERAL NOTES

- 1. 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 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.
- 2. 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.
- 3. 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.
- 4. ADEQUATE PROVISIONS SHALL BE MADE FOR FLOW OF SEWERS, DRAINS, AND WATER COURSES IMPACTED BY CONSTRUCTION.
- 5. 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.
- 6. NO SOIL WHICH IS EXCAVATED OR BROUGHT IN AS PART OF THE WORK SHALL BE STOCKPILED WITHIN THE COUNTY EASEMENT.
- 7. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH THE PROJECT PRIOR TO BIDDING.
- 8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS
- 9. 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.
- 10. 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
- 11. IF EXISTING UTILITY LINES ARE DISTURBED DUE TO CONSTRUCTION ACTIVITY, CONTRACTOR WILL BE RESPONSIBLE TO RELOCATE OR RECONSTRUCT AS PER UTILITY REQUIREMENTS
- 12. 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.
- 13. 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.
- 14. 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.
- 15. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING STREETS AND PRIVATE ENTRANCES THROUGHOUT PROJECT CONSTRUCTION.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. NO NIGHT WORK SHALL BE PERFORMED UNLESS ADEQUATE LIGHTING IS PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
- 20. 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.
- 21. ANY MAINTENANCE OF TRAFFIC PLANS SHALL BE IN CONFORMANCE WITH FDOT STANDARD INDEX 603.
- 22. THE CONTRACTOR SHALL POST ALL APPLICABLE PERMITS ON SITE.
- 23. THE CONTRACTOR SHALL ENTER THE PROJECT SITE TO THE SOUTH OF THE EXISTING CHANNEL. SEE PROJECT LAYOUT SHEET.
- 24. 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 COST

THE CONTRACTOR SHALL HAVE THE DE-WATERING PLAN PRE-APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR PRIOR TO EXECUTION OF THE PLAN.

25. STORMWATER MANAGEMENT CONTROL OFFICER:

MS. BETSY THORPE, CHIEF OF CONSTRUCTION MANAGEMENT FOR LEON COUNTY PUBLIC WORKS (850) 606-1522

COMPACTION

1. 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

- THE CONTRACTOR IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL PRACTICES AND SHALL NOT BE STORED ON SITE.
- GROUNDWATER. THE CONTRACTOR SHOULD BE AWARE THAT GROUNDWATER WILL LIKELY BE ENCOUNTERED DURING THE EXCAVATION.
- NOTIFY THE ENGINEER.

CONCRETE DRAINAGE CHANNEL

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

ENERGY DISSIPATERS

- THE ENERGY DISSIPATERS.
- BLOCK CELLS SHALL BE SEALED USING A NON-EXPANSIVE CEMENTIOUS GROUT.
- STRENGTH EXPANSIVE EPOXY GROUT.

UNDERDRAINS

- SHEET
- THE FABRIC IS TO BE CUT, THE FABRIC INTERSECTIONS SHALL HAVE A MINIMUM 12" OVERLAP.

4. A SLOTTED DUAL WALL DRAIN PIPE WITH THE FOLLOWING PROPERTIES SHALL BE USED.

- MAXIMUM SLOT LENGTH = 0.875 INCH;
- MINIMUM SLOT LENGTH = 0.187 INCH, AND
- 50-YEAR COMPRESSIVE STRENGTH = 900 PSI.

THE PIPE SHALL BE AN ADS DRAIN PIPE OR APPROVED EQUIVALENT BY THE ENGINEER.

- 5. THE PIPE FITTINGS SHALL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- 6. AFTER THE PIPE AND FITTINGS HAVE BEEN PLACED, THE REMAINING EXCAVATION SHALL BE FILLED USING #57 STONE.
- 7. TO PREVENT DAMAGE OR CLOGGING, NO COMPACTION SHOULD BE APPLIED TO THE TOP OF THE UNDERDRAIN.

UNDERDRAIN CLEANOUT

SHEET

RETAINING WALL SYSTEM

- 1. THE RETAINING WALL SHALL BE A MIRAMESH WALL OR EQUIVALENT.
- 2. THE WALL SHALL BE CONSTRUCTED IN CONFORMANCE WITH WALL SUPPLIERS SPECIFICATIONS.

RIPRAP

- DETAILS SHEET
- CONSTRUCTION.
- 3. RIPRAP WILL MATCH EXISTING GRADE TO THE FILL SOILS BEHIND MIRAMESH WALL SYSTEM.

FILL SOILS

1. ALL FILL SOILS SHALL BE A-3 OR A-2-4.

SOD

1. THE CONTRACTOR SHALL USE ST AUGUSTINE SOD.

		REVISIO				SEAL:	Environmental & Geotechnical Specialists, Inc.	LEON COUNTY	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	-		DEPARTMENT OF PUBLIC WORKS	GENE
							TALLAHASSEE, FLORIDA 32301]
						M. HAYDEN, P.E.	OFFICE: (850) 386-1253	LANIER STREET	
						P.E. NO.: 34067	Cert. of Auth.: 6222 FAX: (850) 385-8050	DRAINAGE MAINTENANCE	

1. REMOVE THE EXISTING CONCRETE DITCH TO STA, 101+26.8. THE DEMOLISHED MATERIAL SHALL BE REMOVED, TRANSPORTED, AND DISPOSED OF BY

2. DURING DEMOLITION THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A PROPER DEWATERING SYSTEM TO DRAIN THE EXCAVATIONS OF

3. IF THE CONTRACTOR ENCOUNTERS A SEPTIC TANK, DRAINFIELD, OR DRAINAGE PIPE DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY

1. PRIOR TO SETUP OF THE CONCRETE DITCH PAVEMENT, A PREFORMED NO. 6 REBAR CAGE SHALL BE CONSTRUCTED AND PLACED AT THE LOCATIONS OF

2. AFTER A MINIMUM PERIOD OF 24-HOURS, THE CMU BLOCK ENERGY DISSIPATERS SHALL BE PLACED OVER THE REBAR CAGE SECTIONS. THE OPEN CMU

3. THE INTERFACE BETWEEN THE BOTTOM OF THE CMU BLOCK ENERGY DISSIPATER AND THE CONCRETE DITCH SECTION SHALL BE SEALED USING A HIGH

1. ALL UNDERDRAINS SHALL BE LINED USING TYPE D-2 WOVEN GEOTEXTILE AS DEFINED IN FDOT STANDARD INDEX 199 AS SHOWN ON THE DETAILS

2. THE FABRIC SHALL BE PLACED IN A DRY EXCAVATION BOTTOM FREE OF DEBRIS AND OTHER DELETERIOUS MATERIALS. ANY MATERIALS THAT COULD PUNCTURE THE FABRIC SHALL BE REMOVED PRIOR TO THE PLACEMENT. THE FABRIC SHALL BE ROLLED OUT PARALLEL WITH THE EXCAVATION. WHERE

3. AFTER THE FABRIC IS PLACED, A 12" LIFT OF BEDDING MATERIAL SHALL BE PLACED. THE BEDDING MATERIAL SHALL CONSIST OF #57 STONE OR APPROVED EQUIVALENT BY THE LEON COUNTY PROJECT ENGINEER. THE MATERIAL PROPERTIES SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

1. UNDER DRAIN CLEANOUT PLUGS SHALL BE INSTALLED AT STA 101+21 EVEN WITH THE BOTTOM OF THE DRAINAGE CHANNEL AS SHOWN IN THE DETAILS

1. PRIOR TO THE PLACEMENT OF RIPRAP, TYPE D-2 WOVEN GEOTEXTILE AS DEFINED IN FOOT STANDARD INDEX 199 SHALL BE PLACED AS SHOWN ON THE

2. RIPRAP SHALL BE FDOT RUBBLE (DITCH LINING) AS DESCRIBED IN SECTION 530-2.2.2 IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE

RAL NOTES AND QUANTITIES (1 OF 2)

SHEET NO.

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.
- 2 ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
- PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. 3
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE 4. SIZE.
- THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE POSSESSION OF THE SITE SUPERINTENDENT ONSITE AT ALL 5. 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 6. 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 7. 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.

CONSTRUCTION SEQUENCE

- 1. CONSTRUCTION SHALL NOT COMMENCE PRIOR TO LEON COUNTY DEPARTMENT OF PUBLIC WORKS ISSUING A NOTICE TO PROCEED.
- THE CONTRACTOR SHALL SUBMIT TO LEON COUNTY FOR APPROVAL ANY CHANGES TO THE CONSTRUCTION SEQUENCE AS PRESENTED HERE. 2.
- THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH LEON COUNTY ENVIRONMENTAL COMPLIANCE DIVISION PRIOR 3. TO ANY CONSTRUCTION ACTIVITY
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. 4 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.
- THE CONTRACTOR SHALL CONSTRUCT PERIMETER SEDIMENTATION/EROSION CONTROLS AND CLEARLY "FLAG" THE LIMITS OF CONSTRUCTION. 5. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR
- THE CONTRACTOR SHALL PERFORM NECESSARY TREE REMOVAL AND CLEARING/GRUBBING. 6
- THE CONTRACTOR SHALL CONSTRUCT THE ACCESS ROAD 7.
- 8. THE SPECIALTY GEOTECHNICAL CONTRACTOR SHALL PERFORM THE COMPACTION GROUTING AS SPECIFIED THE THE TECHNICAL SPECIAL PROVISION PROVIDED WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PERFORM EXCAVATIONS SHOWN FOR REMOVAL OF LOOSE SOILS AND PLACE FILL.
- 10. THE CONTRACTOR SHALL PLACE FLOWABLE FILL WHERE SPECIFIED TO FILL IN EXISTING DRAINAGE CHANNEL
- 11. THE CONTRACTOR SHALL MAKE 5 PASSES WITH EXCAVATOR ALONG THE PROPOSED BASE OF THE RETAINING WALL TO COMPACT LOOSE SOILS.
- 12. THE CONTRACTOR SHALL CONSTRUCT THE RETAINING WALL SYSTEM.
- 13. THE CONTRACTOR SHALL SAW CUT THE EXISTING CONCRETE DRAINAGE CHANNEL AS SHOWN ON THE PLANS.
- 14. THE CONTRACTOR SHALL PERFORM DEMOLITION.
- 15. THE CONTRACTOR SHALL CONSTRUCT THE UNDERDRAIN LOCATED BELOW THE BOTTOM OF THE DRAINAGE CHANNEL.
- 16. THE CONTRACTOR SHALL INSTALL THE ENERGY DISSIPATERS.
- 17. THE CONTRACTOR SHALL CONSTRUCT THE CONCRETE DRAINAGE CHANNEL.
- 18. THE CONTRACTOR SHALL PLACE FILL AND GRADE ACCORDING TO THE DRAINAGE MAINTENANCE PLAN SHEET.
- 19. THE CONTRACTOR SHALL PLACE THE BIODEGRADABLE EROSION MAT AS SHOWN ON SHEET 20.
- 20. THE CONTRACTOR SHALL PLANT VEGETATION AS SHOWN ON SHEET 20.
- 21. THE CONTRACTOR SHALL HYDROSEED THE BIODEGRADABLE EROSION MAT.
- 22. THE CONTRACTOR SHALL CLEAN UP THE JOB SITE AND DEMOBILIZE CONSTRUCTION EQUIPMENT.
- 23. 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.

CORRECTIVE ACTIONS FOR OCCURRENCE OF STRUCTURAL FAILURE (SINK FEATURE)

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 (NWFWMD) FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED. CONSTRUCTION ACTIVITY SHALL NOT RESUME UNTIL NOTIFIED BY NWFWMD TO DO SO.

		REVISIO	DNS			SEAL:	Environmental & Geotechnical Specialists, Inc.	LEON COUNTY	
DATE	ΒY	DESCRIPTION	DATE	ΒY	DESCRIPTION	-		DEPARTMENT OF PUBLIC WORKS	GENEF
						M. HAYDEN, P.E.	TALLAHASSEE, FLORIDA 32301		
							OFFICE: (850) 386-1253 FAX: (850) 385-8050	LANIER STREET	
						P.E. NO.: 34067	Cert. of Auth.: 6222	DRAINAGE MAINTENANCE	

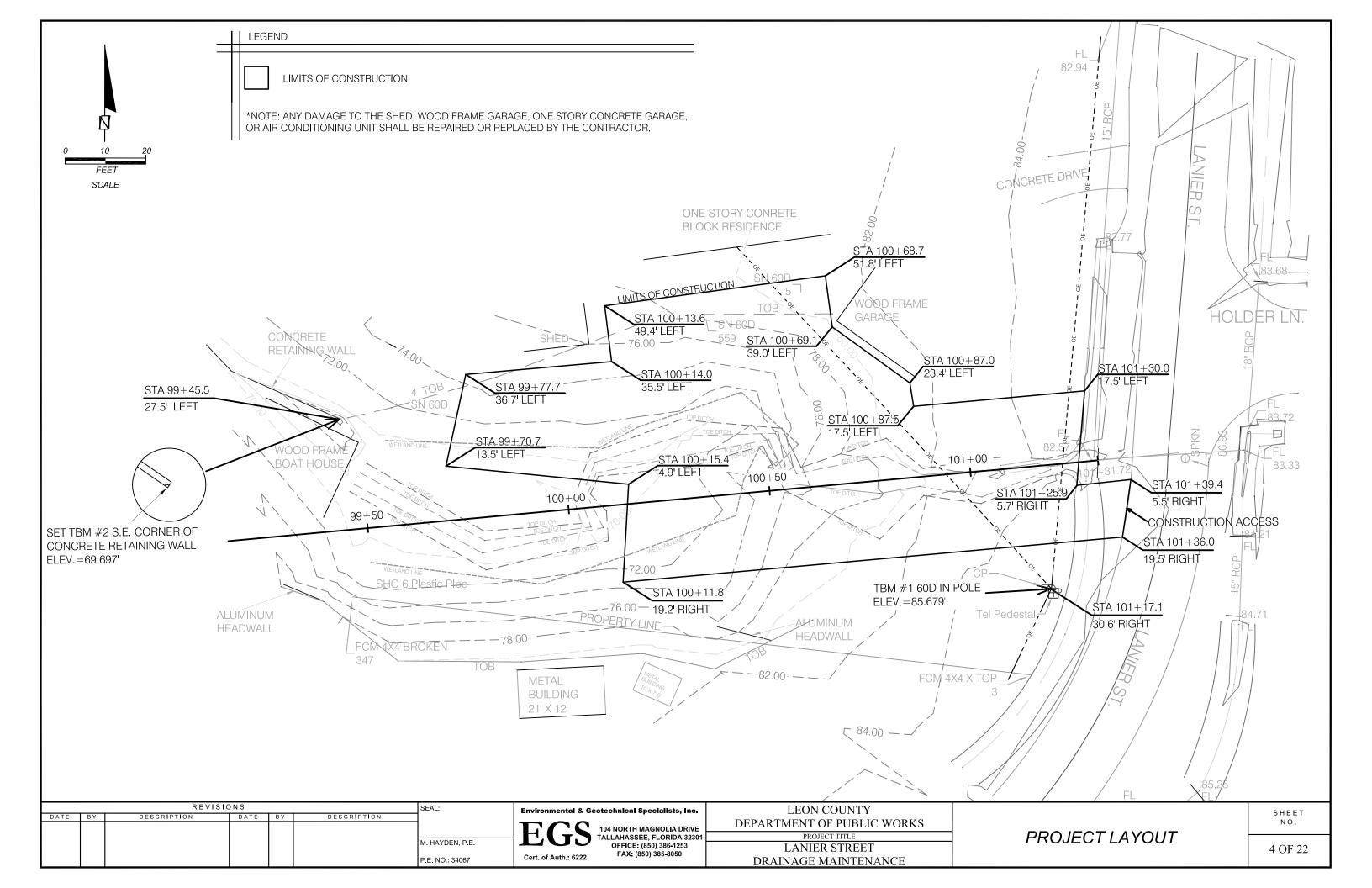
ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
	MOBILIZATION	LUMP SUM	I
102-1	MAINTENANCE OF TRAFFIC	DA	40
110-2-1	*CLEARING AND GRUBBING	LUMP SUM	I
	**SOIL REMOVAL FROM SITE	CY	110
514-71-1	TYPE D-2 FILTER FABRIC	SY	130
530-74	NO. 57 STONE	CY	20
524	FIBER REINFORCED CONCRETE PAV (CONSTRUCTED USING 3000 PSI)	CY	25
415-1-6	NO 6 STEEL REINFORCEMENT	LB	76
	CMU BLOCKS	EACH	15
	4" DUAL WALL SLOTTED PIPE	LF	120
	4" FLEXIBLE PIPE	LF	12
	4" FERNCO COUPLER	EACH	8
	4" ADS 90 DEGREE ELBOW	EACH	2
	4" ADS CLEANOUT PLUG	EACH	2
173-71-1	PRESSURE GROUT	CY	20
173-76	GROUT PIPE INSTALLATION	LF	224
121-70	FLOWABLE FILL	CY	3
	***RETAINING WALL SYSTEM	FACE FT	250
120-6	FILL SOILS	CY	200
530-3-4	RUBBLE (DITCH LINING)	TN	56
	SOD / HYDROSEEDING	LUMP SUM	I
	TREE PROTECTION BARRICADE	LF	225
	HOG WIRE / WIRE FENCING	LF	225
	FDOT TYPE IV FILTER FABRIC	SY	125
104-10-3	SYNTHETIC BALES	LF	225
	18" CORRUGATED METAL PIPE	LF	14
	****BIODEGRADABLE EROSION MAT	SY	200

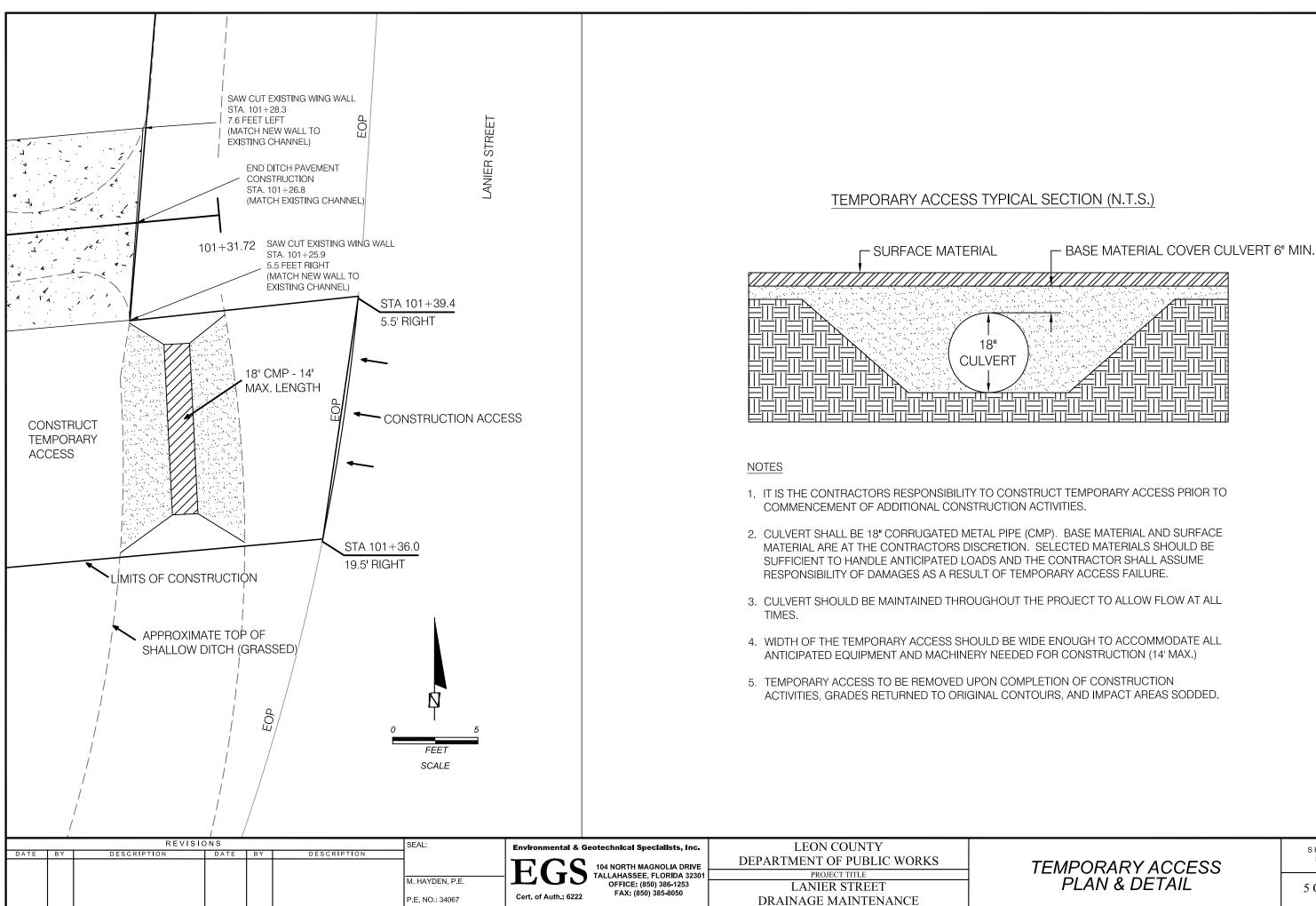
*CLEARING AND GRUBING CONSIST OF SITE PREPARATION, CONCRETE DEMOLITION AND TREE REMOVAL **AS IDENTIFIED ON THE CONSTRUCTION PLANS

RETAINING WALL SHALL BE CONSTRUCTED IN CONFORMANCE WITH WALL SUPPLIERS SPECIFICATIONS *MAT SHALL BE LANDLOK CS2 BY PROPEX OR EQUIVALENT.

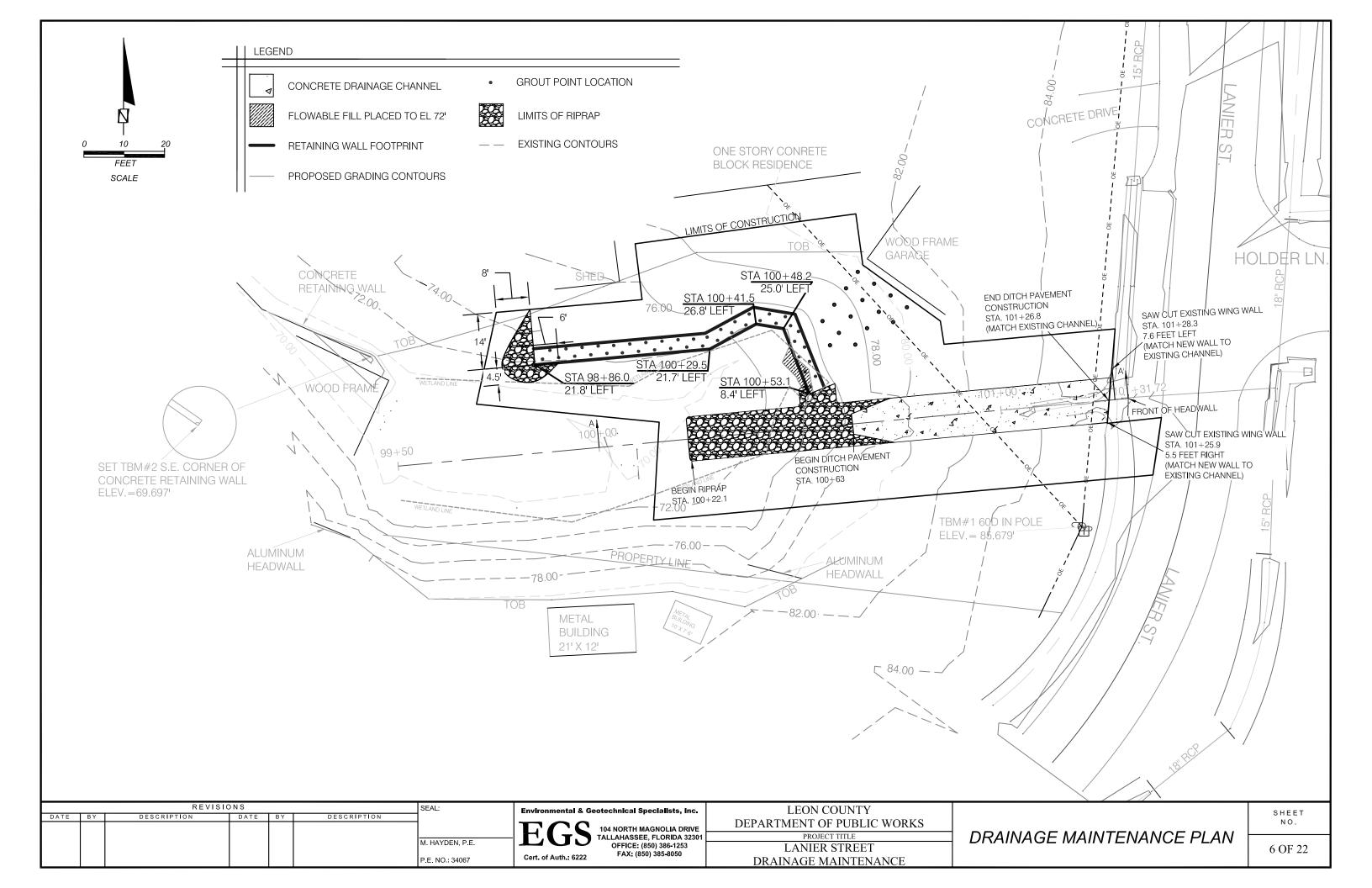
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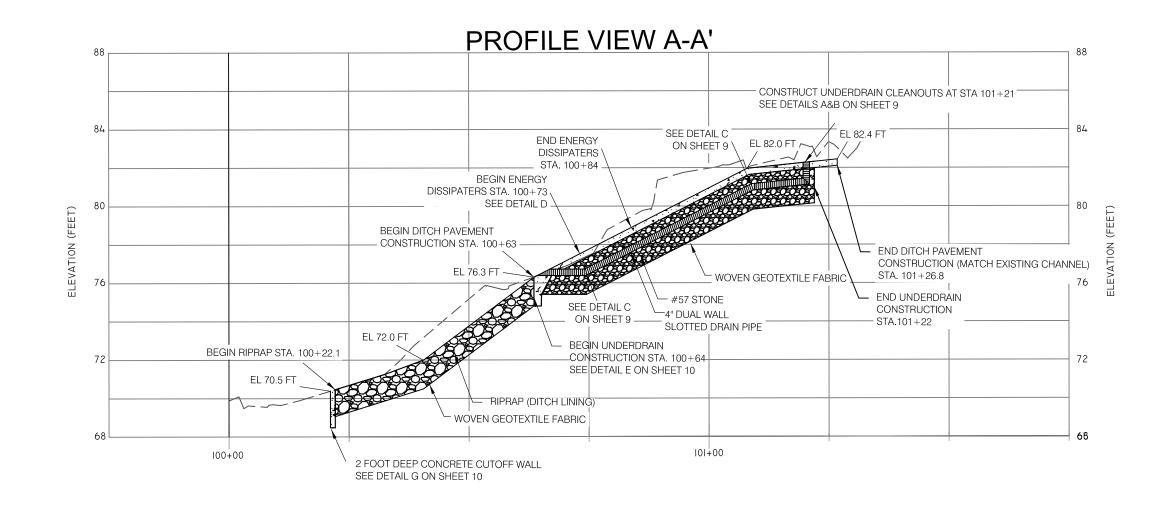
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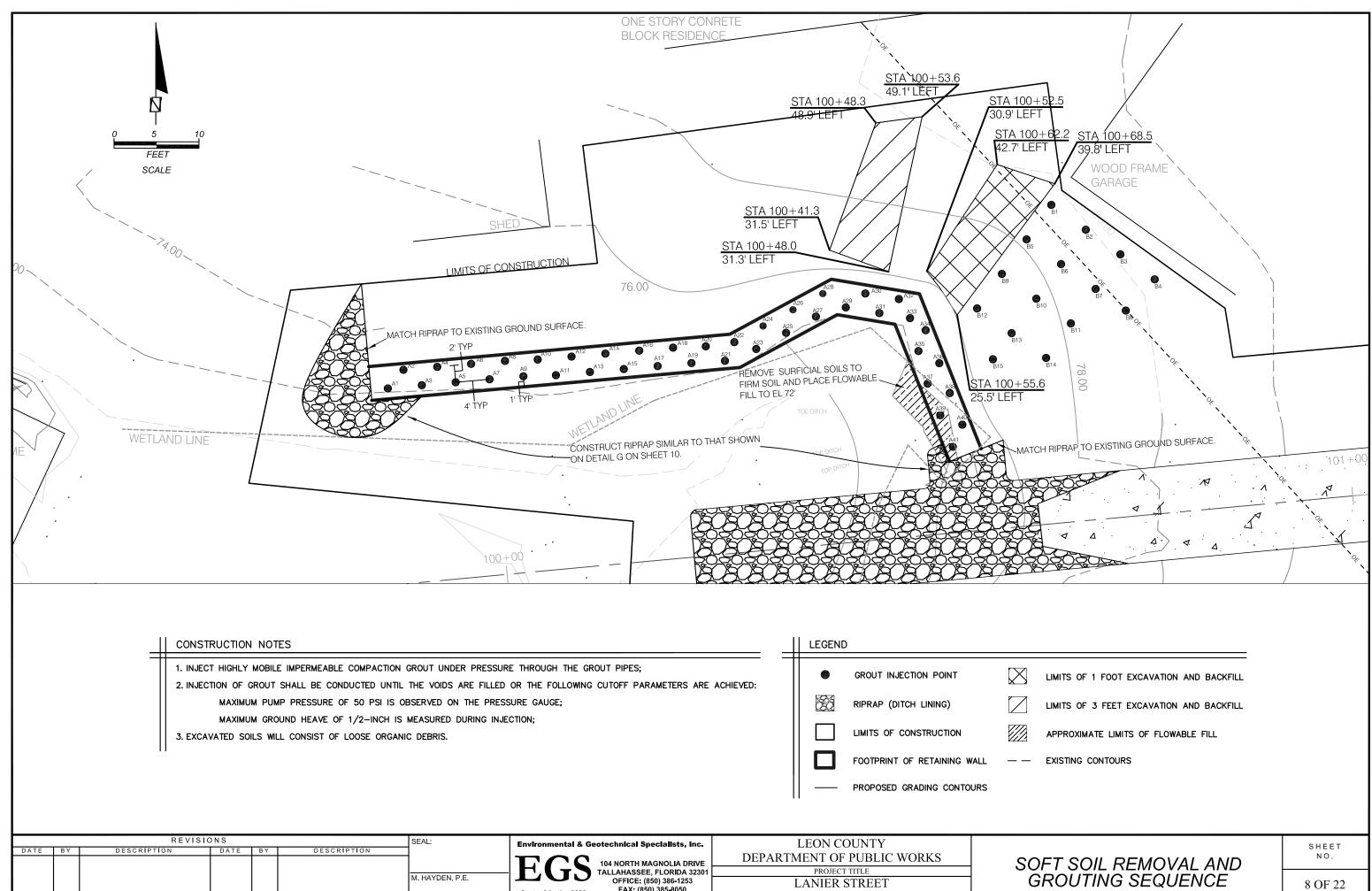
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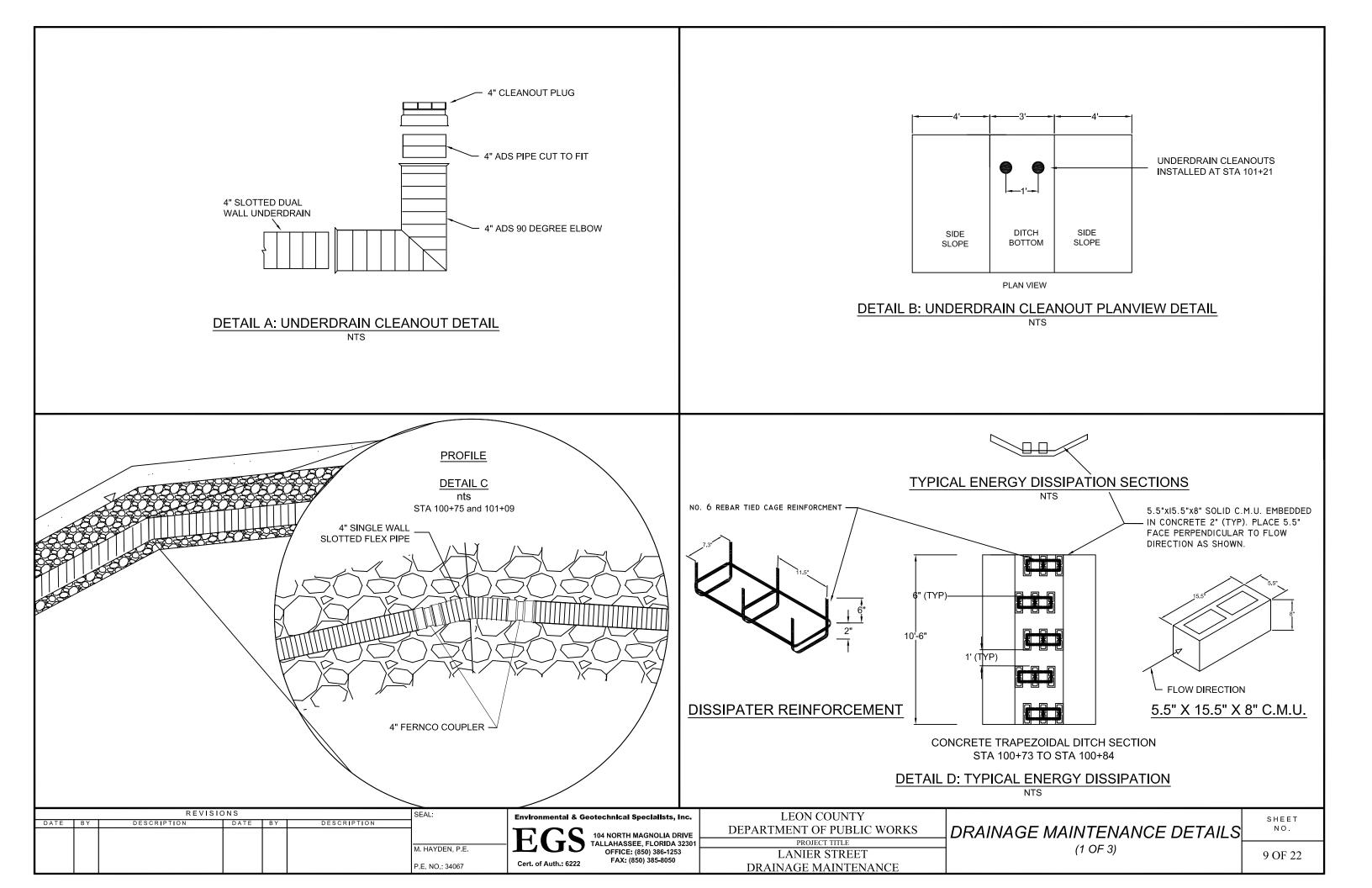


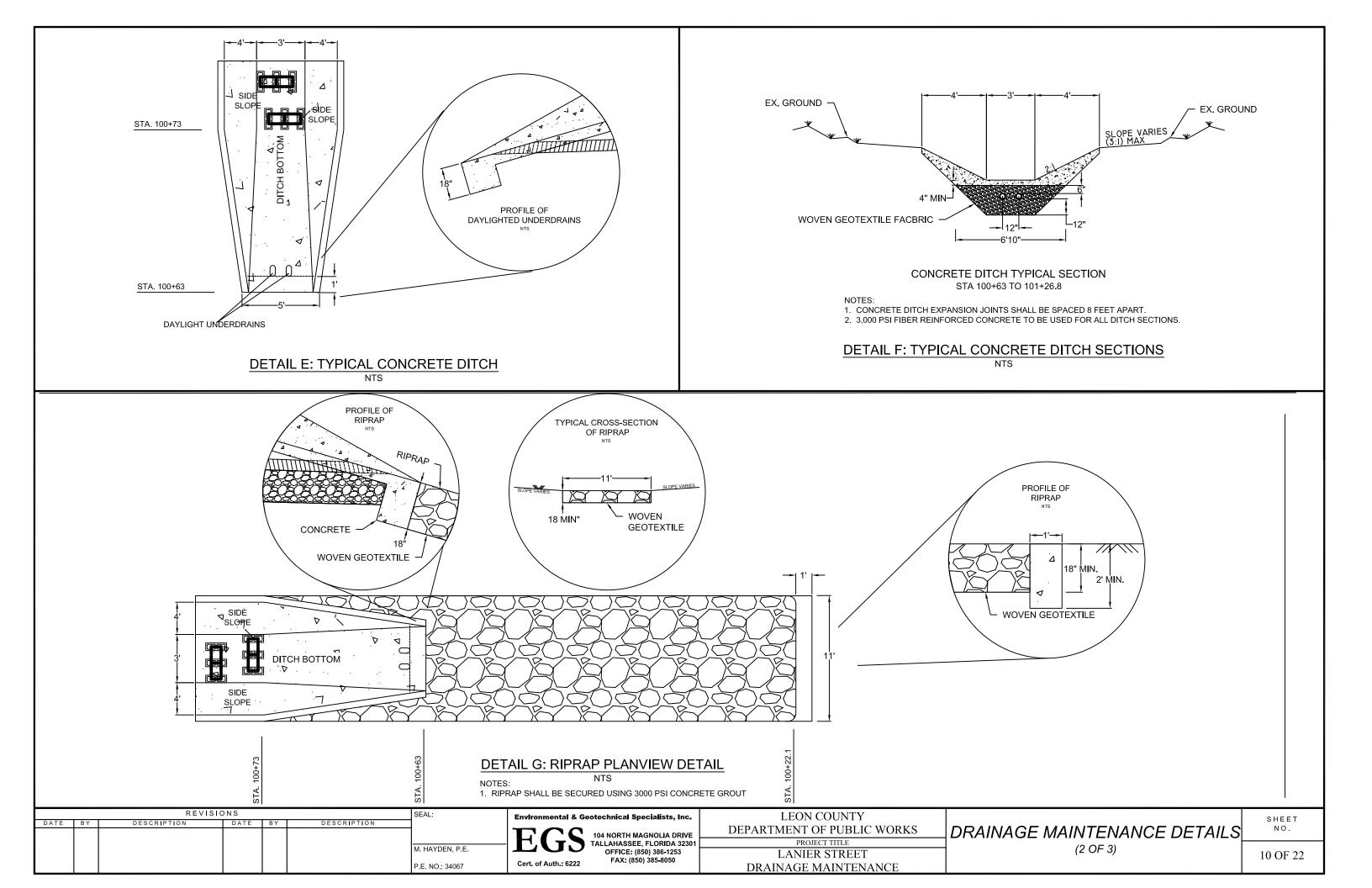
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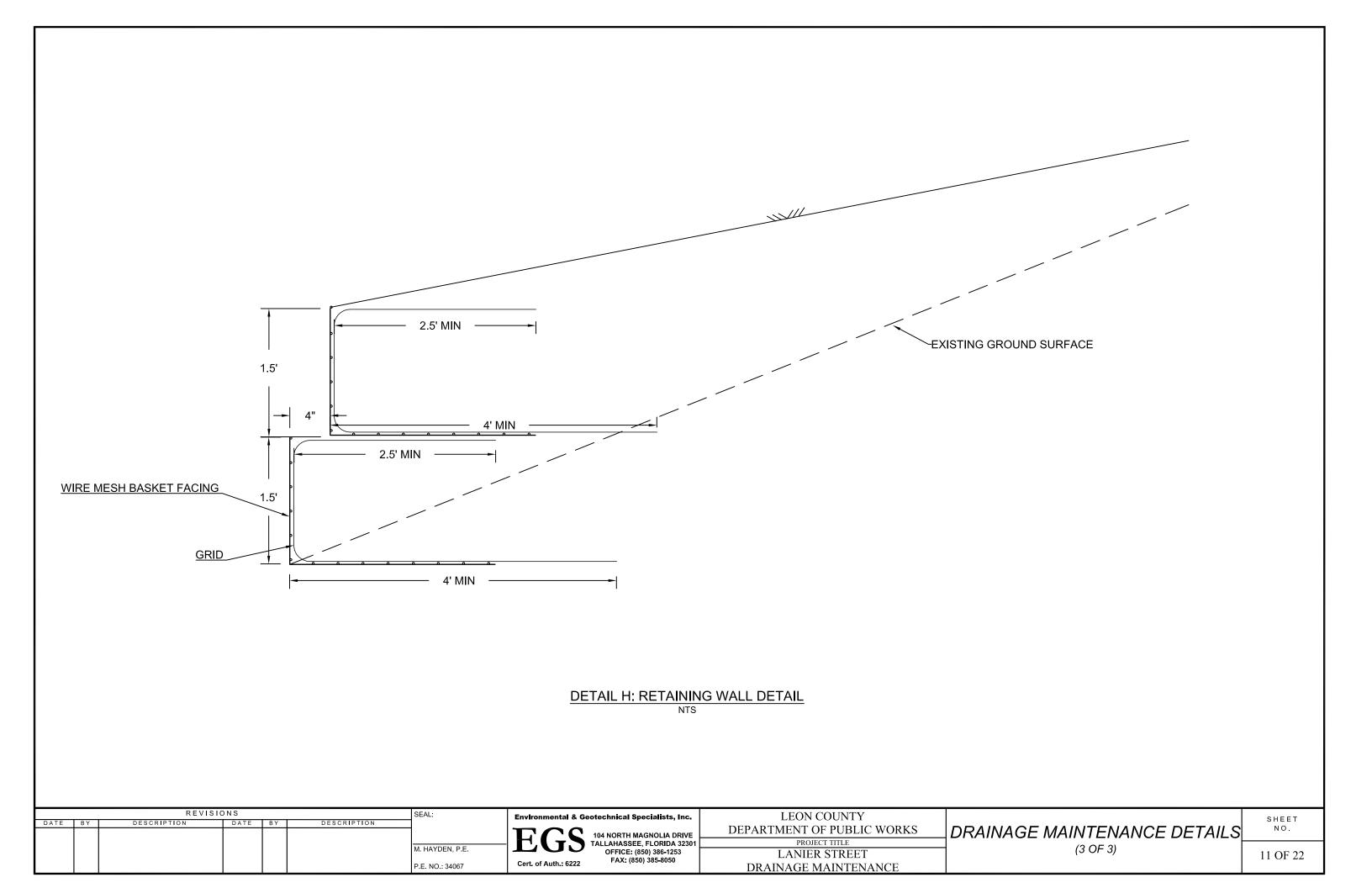
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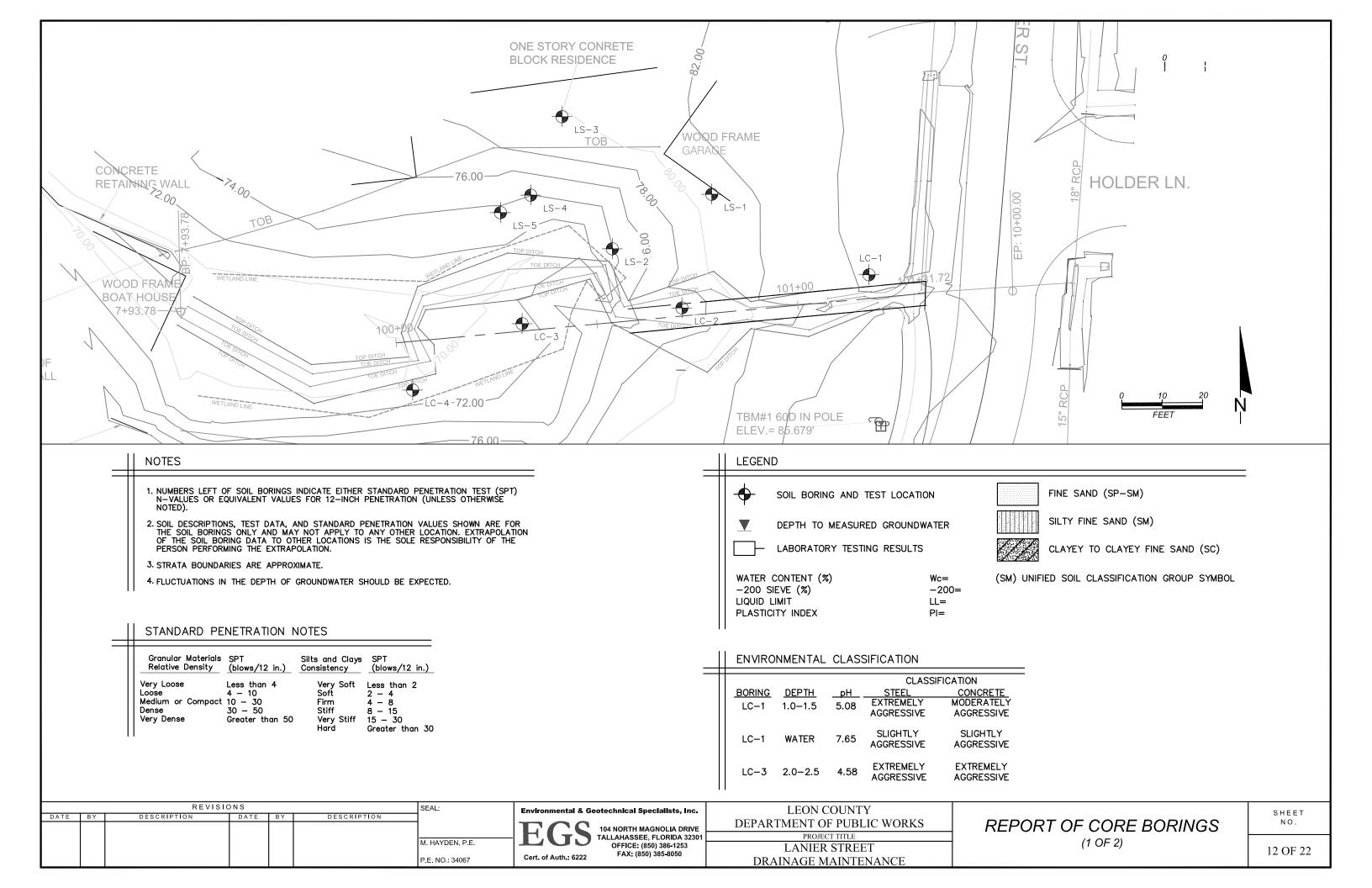


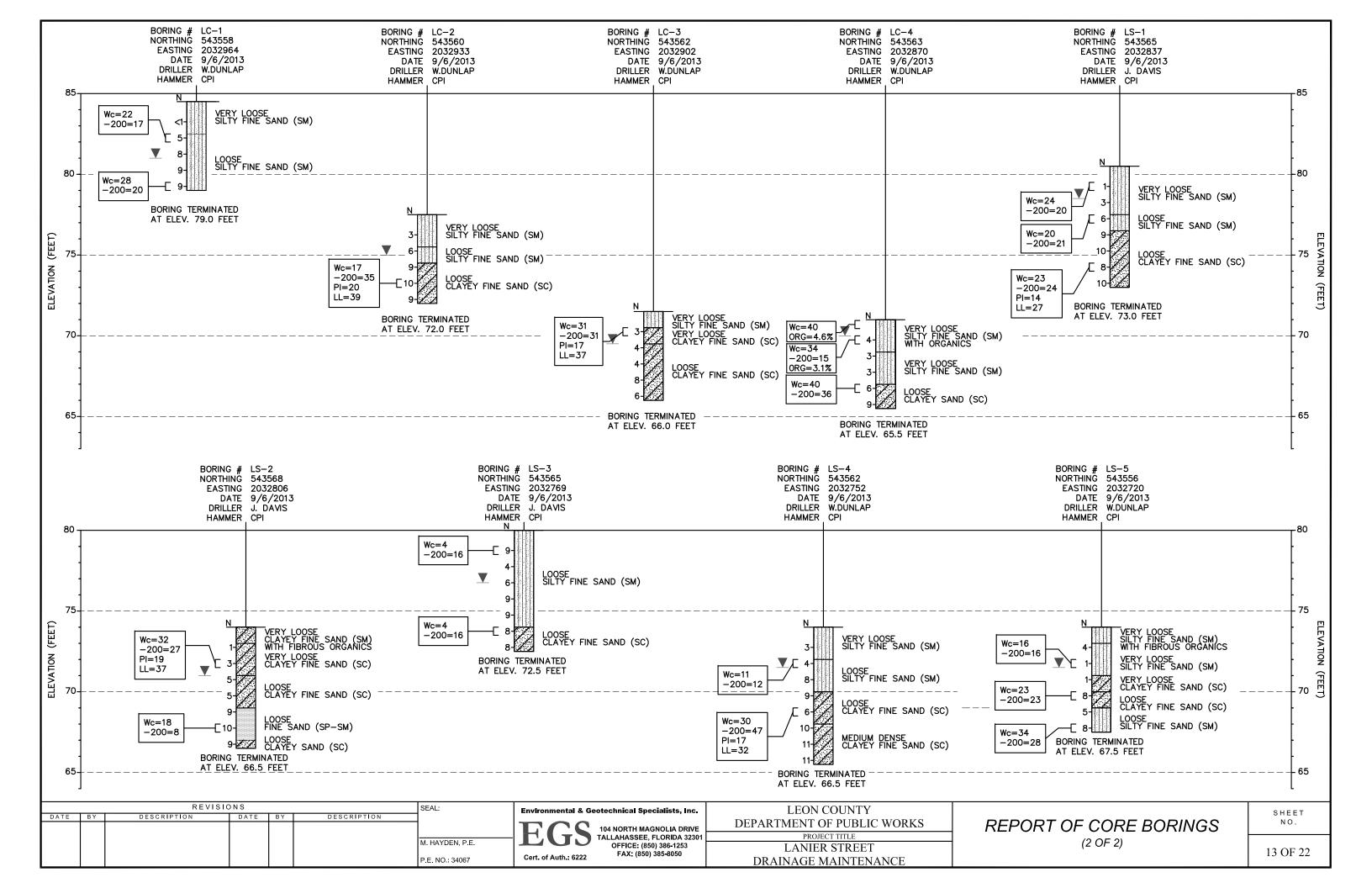
		REVIS	ONS			SEAL:	Environmental & Geotechnical Specialists, Inc.	LEON COUNTY	
DATE	E BY	DESCRIPTION	DATE	BY	DESCRIPTION	-		DEPARTMENT OF PUBLIC WORKS	SOI
						M. HAYDEN, P.E.	TALLAHASSEE, FLORIDA 32301		
							OFFICE: (850) 386-1253 FAX: (850) 385-8050	LANIER STREET	GI
						P.E. NO.: 34067	Cert. of Auth.: 6222	DRAINAGE MAINTENANCE	











GENERAL

- 1. IF REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION ACTIVITIES AND FOR COMPLIANCE WITH ALL STATE, LOCAL, AND FEDERAL PERMITS RELATED TO THIS PROJECT
- 2. THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. THE LEON COUNTY ENVIRONMENTAL INSPECTOR MAY REQUIRE ADDITIONAL BMP'S, IF DEEMED NECESSARY. ALL EROSION CONTROL REQUIRED SHALL BE IN ACCORDANCE WITH THE EROSION CONTROL PLAN. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS, COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.
- 3. ANY SEDIMENTS, GRAVEL OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ADJACENT PROPERTY, ROADWAYS OR INTO STORM DRAINAGE SYSTEMS SHALL BE RECOVERED AND DISPOSED OF PROPERLY.
- 4. TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ADJACENT TO ANY WATERWAY OR DRAINAGE FEATURE PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION OF THE FEATURE IS COMPLETE AND ALL AREAS ARE SUITABLY STABILIZED.
- 5. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AT LOCATIONS SHOWN IN THE PLANS OR AS REQUIRED UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ALL EROSION CONTROL MEASURES ARE THEN TO BE REMOVED UPON APPROVAL BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE.
- 6. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT LOCATIONS DESCRIBED IN THE APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- 7. SWEEPING THE PERIMETER ROADS SHALL BE REQUIRED AS NEEDED TO REMOVE ANY DEBRIS OR SEDIMENT AS A RESULT OF PROJECT ACTIVITIES.
- 8. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT
- CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT SITE. SHOULD CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE OWNER'S DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL SUCH PRODUCTS DO NOT NEED THE MSDS SUBMITTAL. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE OWNER'S DESIGNATED REPRESENTATIVE AND WHO SHALL PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE
- 10. ANY POTENTIAL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. CONTRACTOR SHALL FURNISH THE OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW, AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS.
- 11. WASTE COLLECTION AND DISPOSAL A SUFFICIENT NUMBER OF WASTE AND TRASH RECEPTACLES SHALL BE PROVIDED AT ALL TIMES. RECEPTACLES AND OTHER WASTE COLLECTION AREAS SHALL BE KEPT NEAT AND ORDERLY. TRASH CANS AND DUMPSTERS SHALL HAVE COVERS TO PREVENT THE ENTRANCE OF RAINFALL. ALL WASTE MATERIALS SHALL BE COLLECTED WEEKLY AT A MINIMUM AND DISPOSED AT A SUITABLE LANDFILL. TRASH COLLECTION POINTS SHALL BE LOCATED WHERE THEY WILL BE LEAST IMPACTED BY CONCENTRATED STORMWATER RUNOFF.
- 12. CONSTRUCTION ENTRANCE AREAS DUST CONTROL TECHNIQUES SHALL BE USED DURING DEMOLITION WHERE LARGE AMOUNTS OF DUST ARE GENERATED. IF WATER OR SLURRY IS USED TO CONTROL DUST, IT SHALL BE RETAINED ON THE SITE.
- 13. WASHING AREAS DUMP TRUCKS, CONCRETE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT SHALL NOT BE WASHED AT LOCATIONS WHERE RUNOFF WILL FLOW DIRECTLY INTO AN ADJACENT DITCH OR OTHER STORMWATER CONVEYANCE SYSTEM. AN AREA SHALL BE DESIGNATED BY THE CONTRACTOR FOR WASHING VEHICLES AND WILL BE LOCATED WHERE THE WASH WATER WILL SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND. WASH AREAS SHALL HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.
- 14. STORAGE OF CONSTRUCTION MATERIALS AN ISOLATED AREA SHALL BE DESIGNATED TO STORE CHEMICALS, CEMENTS, AND ACIDS, OR OTHER POLLUTANTS. THE AREA SHALL BE SO LOCATED AS TO ELIMINATE RUNOFF POLLUTION. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS, AND ACIDS SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN IN THE USE OF THESE MATERIALS STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CONTAINERS OF CONSTRUCTION MATERIALS SHALL NOT BE WASHED IN OR NEAR DITCHES OR OTHER STORMWATER CONVEYANCE SYSTEMS WITHIN THE PROJECT LIMITS. GROUNDWATER RESOURCES SHALL BE PROTECTED BY THE USE OF PLASTIC MATS. TAR PAPER OR OTHER IMPERVIOUS MATERIALS ON ANY GROUND SURFACE WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.
- 15. SANITARY FACILITIES ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED DURING ALL CONSTRUCTION PHASES FOR WORKERS ACCORDING TO APPLICABLE HEALTH AND SAFETY PRACTICES AND REGULATIONS.

EQUIPMENT STAGING AND MAINTENANCE AREAS

- 1. THE CONTRACTOR SHALL LOCATE AND SUBMIT FOR THE COUNTY ENVIRONMENTAL INSPECTOR AND ENGINEERS APPROVAL A STAGING, MAINTENANCE, AND REPAIR 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 AND MAINTENANCE AREA IS OUTSIDE THE COUNTY'S RIGHT-OF-WAY OR PROPERTIES, THE CONTRACTOR MAY BE REQUIRED TO OBTAIN A TEMPORARY STAGING AREA PERMIT FORM LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT
- 2. EQUIPMENT STAGING, MAINTENANCE, AND REPAIR SHALL BE LIMITED TO ONE AREA OF THE PROJECT. AN ADEQUATE NUMBER OF WASTE SHALL BE PROVIDED. WASTE SHALL BE DISPOSED OF PROPERLY OFF-SITE. THE STAGING AND MAINTENANCE AREAS SHALL BE INSPECTED AND CLEANED DAILY, CARE SHALL BE TAKEN THAT ANY OILS, GASOLINE, GREASE, SOLVENTS, AND OTHER POTENTIAL POLLUTANTS SHALL NOT BE WASHED DIRECTLY INTO ANY STORMWATER CONVEYANCE SYSTEMS
- 3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF STAGING OR MAINTENANCE SHALL BE CONSTRUCTED SO AS TO INTERCEPT SEDIMENT BEFORE IT IS TRANSPORTED INTO ADJACENT STORMWATER CONVEYANCE SYSTEMS.
- 4. IF THE STAGING AND MAINTENANCE AREA NATURAL SURFACE IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD ON EQUIPMENT TIRES, TRACKS, ETC. THEN THE TIRES, TRACKS, ETC. THE T WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE

STAKED BALE BARRIER SILT FENCE

1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

FILTERING EFFICIENCY:	(VTM-51) 75% (MIN.)
TENSILE STRENGTH AT 20% MAX. ELONGATION	N: (VTM-52)
EXTRA STRENGTH	50 LB./LIN. IN. (MIN.)
STANDARD STRENGTH	30 LB./LIN. IN. (MIN.)
FLOW RATE:	(VTM-51) 0.3 GAL /SQ. FT /MIN. (MIN.)

2. POSTS FOR SILT FENCES SHALL BE EITHER 2 X 4 IN. SQUARE OR 3 IN. DIAMETER WOOD OR 1.33 LB./ LINEAR FT. STEEL WITH PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS SHALL BE SPACED A MAXIMUM OF 10 FT. APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 IN.).

- 3. THE 2 X 4 IN. WOOD TREE PROTECTION BARRICADE MAY BE USED AS THE POSTS AND BACKING FOR THE STAKED BALE BARRIER SILT FENCE
- 4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 36 IN. IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 IN
- 5. WIRE MESH SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 IN. LONG, TIE WIRES OR HOG RINGS.
- 6. THE FILTER MATERIAL SHALL BE STAPLED SECURELY TO THE WOODEN STAKES, LEAVING AT LEAST 12 IN. OF EXCESS MATERIAL SHALL NOT BE STAPLED SIDE OF THE SYNTHETIC BALES TO SIT ON. HEAVY DUTY WIRE STAPLES AT LEAST 1/2 IN. LONG SHALL BE USED. FILTER MATERIAL SHALL NOT BE STAPLED TO EXISTING TREES.
- 7. SYNTHETIC BALES SHALL BE PLACED THROUGHOUT THE LENGTH OF SILT FENCE ON TOP OF THE OVERLAPPED FILTER MATERIAL ON THE EXISTING GRADE. NO TRENCHING IS TO OCCUR DURING THE CONSTRUCTION OF THE STAKED BALE BARRIER SILT FENCE.
- 8. TWO (2) STAKES PER SYNTHETIC BALE SHALL BE DRIVEN A MINIMUM DEPTH OF 12 IN, ALONG THE LENGTH OF SILT FENCE. LOOSE SOIL SHALL THEN BE PLACED BY SHOVEL AND LIGHTLY COMPACTED ALONG THE UPSTREAM FACE OF THE BALES UNTIL BUILT UP APPROXIMATELY 4 IN, ABOVE EXISTING GRADE.
- 9. IF A BARRIER IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, THE BARRIER SHALL BE OF SUFFICIENT LENGTH TO ELIMINATE END FLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE WITH THE ENDS ORIENTED UPSLOPE.
- 10. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 IN

11. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 IN, OVERLAP, AND SECURELY SEALED.

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DATE	ΒY	DESCRIPTION	DATE	ΒY	DESCRIPTION			DEPARTMENT OF PUBLIC WORKS	ER
							TALLAHASSEE, FLORIDA 32301	PROJECT TITLE	
						M. HAYDEN, P.E.	OFFICE: (850) 386-1253	LANIER STREET	
						P.E. NO.: 34067	Cert. of Auth.: 6222 FAX: (850) 385-8050	DRAINAGE MAINTENANCE	



SHEET NO.

MAINTENANCE AND INSPECTION

ALL BMPS SHALL BE INSPECTED TWICE WEEKLY AT A MINIMUM AND AFTER EVERY RAINFALL EVENT EXCEEDING 1/2 IN. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY UPON COMPLETION OF THE INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF ANY SEDIMENT FILTER OR BARRIER. SUCH DEPOSITS SHALL BE DISPOSED OF IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

EQUIPMENT STAGING AND MAINTENANCE AREAS

- 1. EQUIPMENT STAGING AND MAINTENANCE AREAS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS OF WAY.
- 2. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 3. SWEEP THE PAVED ROAD DAILY FOR SEDIMENTS AND STONES.

STAKED BALE BARRIER SILT FENCE

- 1. SILT FENCES AND SYNTHETIC BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT OF 1/2 IN. OR GREATER AND AT LEAST DAILY DURING PROLONGED RAINFALL EVENTS. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 2. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE. PREPARED AND SEEDED OR SODDED.
- 3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE BEFORE THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

PERMANENT SODDING

- 1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION AS EXISTED PRIOR TO CONSTRUCTION ACTIVITIES, EXCLUDING THE DESIGNATED AREA OF SLOPE REGRADING. ALL APPLICABLE DISTURBED AREAS SHALL BE SODDED USING ST. AUGUSTINE GRASS.
- 2. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVAL PLAN. THESE OPERATIONS SHALL LEAVE AS MUCH TOPSOIL AS POSSIBLE OR REPLACE THE TOPSOIL TO A DEPTH OF 4 IN.
- 3. PRIOR TO LAYING SOD, THE SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS, ROOTS, BRANCHES, STONES AND CLODS IN EXCESS OF 2 IN. IN LENGTH OR DIAMETER. SOD SHALL NOT BE APPLIED TO GRAVEL OR OTHER NON-SOIL SURFACES.
- 4. ANY IRREGULARITIES IN THE SOIL SURFACE RESULTING FROM TOPSOIL OR OTHER OPERATIONS SHALL BE FILLED OR LEVELED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- 5. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 IN., PLUS OR MINUS 1/4 IN., AT THE TIME OF CUTTING. THIS THICKNESS SHALL EXCLUDE SHOOT GROWTH AND THATCH.
- 6. PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHALL NOT BE ACCEPTABLE.
- 7. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
- 8. SOD SHALL NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER.
- 9. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
- 10 IRRIGATE AREAS TO BE SODDED WITH A MINIMUM OF 1/2 IN, OF WATER UNLESS RECENT RAINS HAVE PROVIDED FOULVALENT MOISTURE

DATE

- 11. THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHALL BE EXERCISED TO INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
- 12. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH STAGGERED JOINTS AND SECURED BY PEGGING OR OTHER APPROVED METHODS. SOD SHALL BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON THE CONTOUR). BEGIN LAYING SOD AT THE BOTTOM OF THE SLOPE AND WORK UPHILL
- 13. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHALL BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.
- 14 AFTER ROLLING SOD SHALL BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 IN BELOW THE SOD IS THOROUGHLY WET

DESIGN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION, INCLUDING FALSE INFORMATION, INCLUDING F THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

MYRON L. HAYDEN, P.E. ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THE EROSION CONTROL PLAN PREPARED THERE UNDER.

CONTRACTOR	DATE

CONTRACTOR SHALL CONTROL EROSION WITHIN THE PROJECT LIMITS SUCH THAT THERE ARE NO NEGATIVE IMPACTS DOWNSTREAM OF THE PROJECT DUE TO UNCONTROLLED EROSION OR SEDIMENTATION.

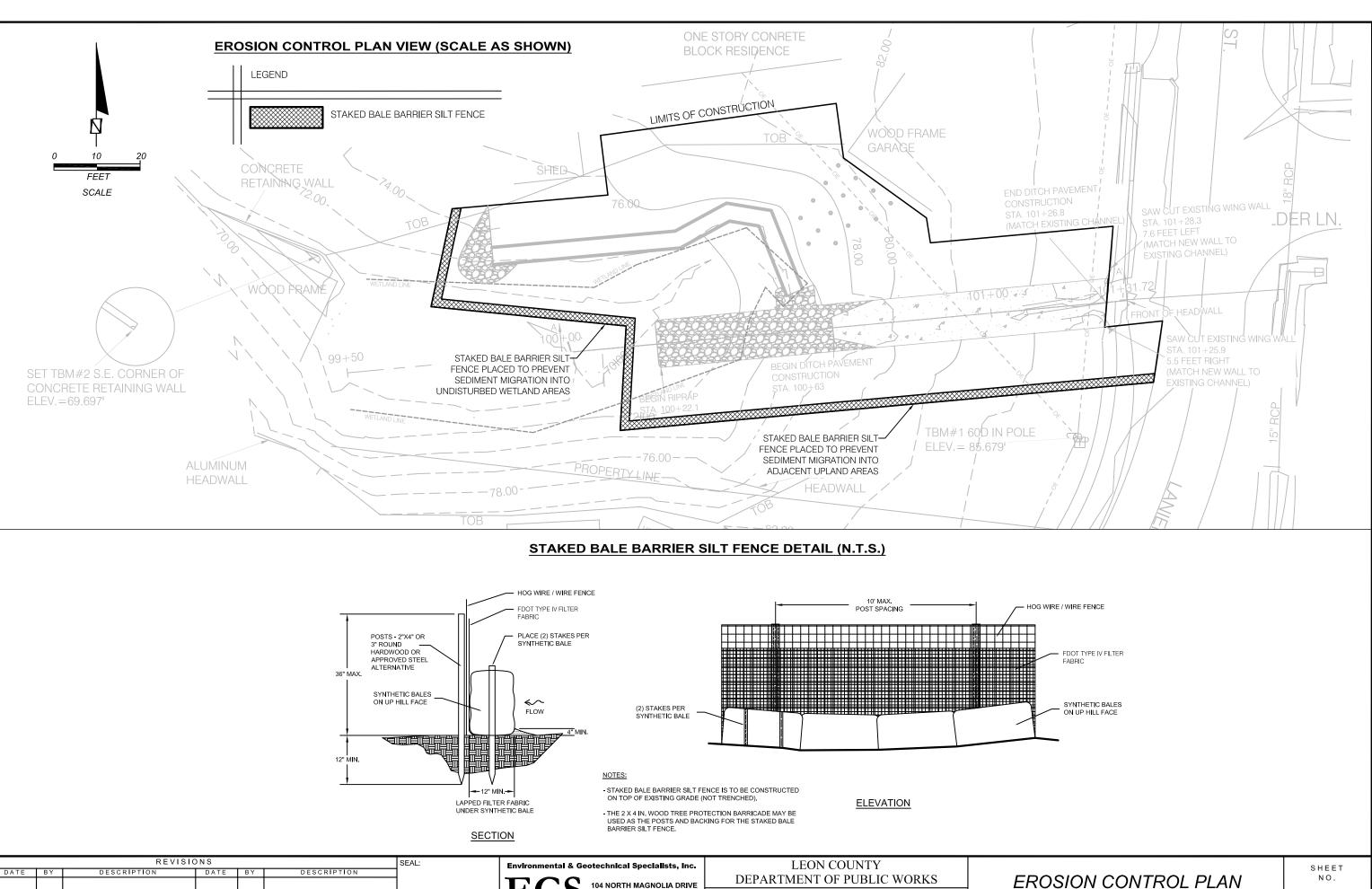
SHOULD ADDITIONAL BMPS BE REQUIRED TO CONTROL EROSION AND SEDIMENTATION OF ADJACENT STORMWATER CONVEYANCE SYSTEMS, THE OWNER'S DESIGNATED REPRESENTATIVE WITH A SUPPLEMENTARY EROSION CONTROL PLAN WITH APPROPRIATE BMPS PLACED AS NEEDED.

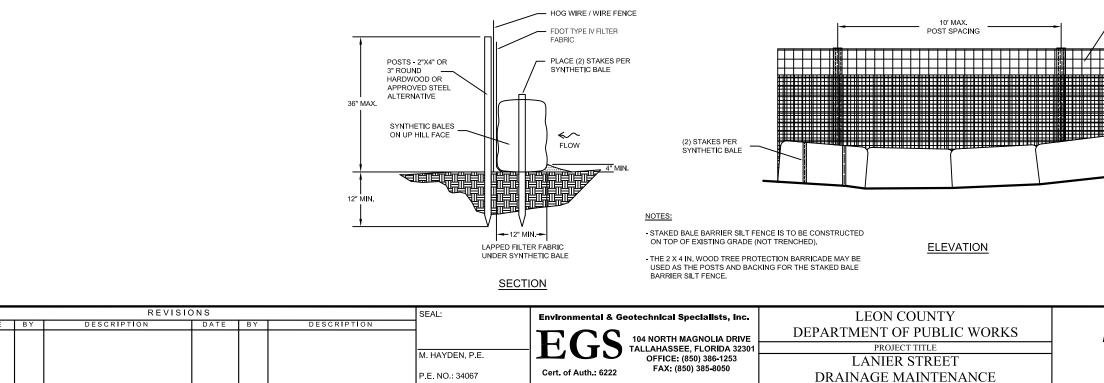
CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESCAPE OF SEDIMENT FROM THE SITE AND SHALL BE HELD RESPONSIBLE FOR THE REPAIR OF DOWNSTREAM IMPACTS DUE TO THE RELEASE OF SEDIMENTS FROM THE SITE INCLUDING BUT NOT LIMITED TO SEDIMENTATION AND EROSION THAT MAY RESULT FROM THE BUILDUP OF SUCH SEDIMENTS DOWNSTREAM OF THE PROJECT. CONTRACTOR SHALL FULLY BEAR THE FINANCIAL COST OF ANY PENALTIES OR FINES RESULTING FROM SUCH EVENTS.

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DATE	ΒY	DESCRIPTION	DATE	BY	DESCRIPTION			DEPARTMENT OF PUBLIC WORKS	EF
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						M. HAYDEN, P.E.	OFFICE: (850) 386-1253 FAX: (850) 385-8050	LANIER STREET	
						P.E. NO.: 34067	Cert. of Auth.: 6222	DRAINAGE MAINTENANCE	

ROSION CONTROL PLAN NOTES (2 OF 2)

SHEET NO.





PLAN & DETAILS

TREE DEBIT INDEX TABLE

TREE ABBREVIATION	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CRITICAL PROTECTION ZONE AREA (SQ. FT.)	TREE REMOVED	TREE DEBIT
		UPLAN	D TREE REMOVALS			
HIC	HICKORY	CARYA SPP.	20	1256	х	14
HIC	HICKORY	CARYA SPP.	30	2826	х	30
SWT	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	16	804	х	0
HIC	HICKORY	CARYA SPP.	11	380	х	0
ASH	ASH	FRAXINUS SPP.	8	201	х	0
PIN	PINE	PINUS. SPP	24	1809	х	8
MAG	MAGNOLIA	MAGNOLIA SPP.	9	254	х	0
SWT	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	14	615	х	0
BAY	BAY	PERSEA SPP.	35	3847	х	26
SWT	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	9	254	х	0
SWT	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	30	2826	х	10
SWT	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	23	1661	х	8
POP	POPLAR (DEAD)	POPULUS SPP.	28	2462	х	0
			•	UPLAND TR	EE REMOVAL TOTAL =	96

WETLAND TREE REMOVALS

OAK	ΟΑΚ	QUERCUS SPP.	9	254	х	10
ASH	ASH	FRAXINUS SPP.	6	113	х	8
ASH	ASH	FRAXINUS SPP.	9	254	x	10
MAG	MAGNOLIA	MAGNOLIA SPP.	10	314	х	10
MAG	MAGNOLIA	MAGNOLIA SPP.	16	804	х	12
	·			WETLAND TR	EE REMOVAL TOTAL =	50

*NOTES

1. TREE DEBITS DUE TO UPLAND TREE REMOVALS TO BE MITIGATED BY PAYMENT TO TREE BANK

- 2. TREE DEBITS DUE TO WETLAND TREE REMOVALS TO BE MITIGATED BY PLANTING PLAN SEEN ON SHEET 20.
- 3. THE CRITICAL PROTECTION ZONE (CPZ) IS THE AREA THAT SURROUNDS A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT (DBH).

TREES TO BE REMOVED

STUMP TREATMENT

- 1. SPECIFIC STUMP TREATMENT FOR EACH TREE TO BE REMOVED HAS BEEN IDENTIFIED ON SHEET 19.
- 3. STUMPS DESIGNATED FOR REMOVAL SHALL BE REMOVED SUCH THAT THE ENTIRE EXISTING ROOT SYSTEM IS REMOVED.

PROTECTION OF EXISTING TREES TO REMAIN

- TREES TO REMAIN AND TO BE PROTECTED BY TREE PROTECTION BARRICADES ARE INDICATED ON THE PLAN SET. THE PLAN SET REPRESENTS THE MINIMUM PROTECTION STANDARDS. ADDITIONAL TREE PROTECTION MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT AND PUBLIC WORKS DEPARTMENT.

TREE PROTECTION BARRICADES

- 1. ALL TREES ADJACENT TO THE LIMITS OF CONSTRUCTION NOT INDICATED FOR REMOVAL IN THE PLANS SHALL BE PROTECTED BY A TREE PROTECTION BARRICADE CONSTRUCTED OF 2" X 4" OR LARGER POSTS PLACED VERTICALLY 8-FEET ON CENTER WITH TWO (2) ROWS OF 2" X 4" HORIZONTAL BATTERBOARDS CONTINUOUS THROUGHOUT THE LENGTH OF THE BARRICADE. YELLOW OR ORANGE CAUTION TAPE SHALL BE SECURELY ATTACHED TO THE BATTERBOARDS THROUGHOUT THE LENGTH OF THE BARRICADE. THE TREE PROTECTION BARRICADE SHALL PROTRUDE A MINIMUM OF 4-FEET ABOVE THE GROUND SURFACE (SEE DETAIL CHEET ADDITION OF THE BARRICADE. THE TREE PROTECTION BARRICADE SHALL PROTRUDE A MINIMUM OF 4-FEET ABOVE THE GROUND SURFACE (SEE DETAIL CHEET ADDITION OF THE BARRICADE. THE TREE PROTECTION BARRICADE SHALL PROTRUDE A MINIMUM OF 4-FEET ABOVE THE GROUND SURFACE (SEE DETAIL
- 2. WHERE DESIGNATED IN THE PLAN SET, THE BARRICADE SHALL BE CONSTRUCTED ALONG THE LIMITS OF CONSTRUCTION TO PROTECT THE "CRITICAL PROTECTION ZONE" TO THE GREATEST EXTENT POSSIBLE OF THE TREES TO REMAIN (SEE DETAIL SHEET 8). THE BARRICADE SHALL BE CONSTRUCTED TO PREVENT THE ENCROACHMENT OF EQUIPMENT OR VEHICLES, THE REMOVAL OF EXISTING GROUNDCOVER, THE DISTURBANCE OR COMPACTION OF SOIL, OR THE SCARRING OF ROOTS WITHIN THE "CRITICAL PROTECTION ZONE."
- 3. THE TREE PROTECTION BARRICADE MAY ALSO SERVE AS THE 2" X 4" FRAMING REQUIRED AS THE BACKING FOR THE STAKED BALE BARRIER SILT FENCE.
- 4. STOCKPILING OF SOIL, MATERIALS, OR PARKING OF EQUIPMENT OR VEHICLES BEYOND THE LIMITS OF THE TREE PROTECTION BARRICADE WITHIN THE RADIUS OF THE "CRITICAL PROTECTION ZONE" WILL NOT BE ALLOWED. STOCKPILING AREAS, PARKING AREAS AND EQUIPMENT STORAGE AREAS SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING UTILIZED.

TREE TRUNK PROTECTION

- 2. IF REQUIRED, ADDTIONAL TRUNK PROTECTION SHALL CONSIST OF A CONTINUOUS BAND OF 2" X 4" OR 2" X 6" WOODEN BOARDS ATTACHED VERTICALLY TO THE TRUNKS TO GUARD AGAINST ACCIDENTAL DAMAGE BY ANY CONSTRUCTION EQUIPMENT. THE CONTINUOUS WOODEN BAND SHALL EXTEND A MINIMUM OF 4-FEET ABOVE THE GROUND SURFACE (SEE DETAIL SHEET 8).

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							TALLAHASSEE, FLORIDA 32301]
						M. HAYDEN, P.E.	OFFICE: (850) 386-1253	LANIER STREET	TREE
						P.E. NO.: 34067	Cert. of Auth.: 6222 FAX: (850) 385-8050	DRAINAGE MAINTENANCE	

PROJECT TOTALS							
TREES REMOVED	TREE DEBITS						
18	146						

TREE REMOVAL AND **PROTECTION PLAN** E DEBIT INDEX TABLES AND NOTES SHEET

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NO.

EXISTING TREES REQUIRING ADDITIONAL TRUNK PROTECTION SHALL BE DESIGNATED IN THE FIELD BY LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT, AND PUBLIC WORKS DEPARTMENT, OR THEIR DESIGNATED REPRESENTATIVE.

3. IT IS IMPORTANT FOR THE EQUIPMENT OPERATORS, CONTRACTOR'S PERSONNEL, AND SUBCONTRACTORS TO UNDERSTAND THAT DAMAGE TO TREES WILL NOT BE TOLERATED. EXTREME CARE MUST BE TAKEN TO PROTECT THE EXPOSED ROOT COLLARS FROM VEHICULAR DAMAGE AND FALLING DEBRIS. CONTRACTOR SHALL CONTACT LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT AND PUBLIC WORKS DEPARTMENT PRIOR TO THE START OF CONSTRUCTION.

2. TREE PROTECTION OF THE EXISTING TREES TO REMAIN SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY WHICH MIGHT ADVERSELY IMPACT TREES WHICH ARE TO BE PRESERVED AND PROTECTED AND SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION ACTIVITIES.

4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE HANDLING OF STUMPS WITH LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT DEPARTMENT AND PUBLIC WORKS DEPARTMENT.

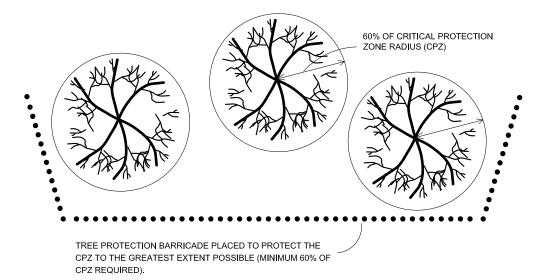
2. STUMPS DESIGNATED FOR CUTTING SHALL BE CUT WITHIN 3" OF THE EXISTING GROUND SURFACE AND MINIMIZE GROUND DISTURBANCE TO THE GREATEST EXTENT POSSIBLE.

3. DISPOSAL OF THE REMOVED TREES FROM THE PROJECT LIMITS SHALL BE CONDUCTED IN A SAFE AND RESPONSIBLE MANNER. ON-SITE BURNING OF REMOVED TREES OR LOOSE TREE DEBRIS WILL NOT BE ALLOWED.

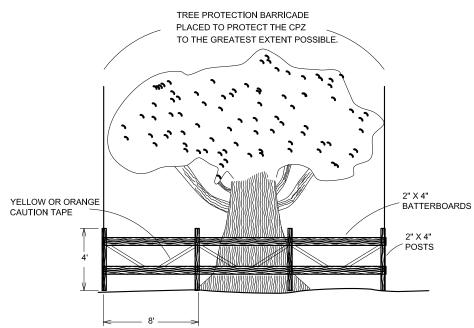
2. ALL TREES AND SHRUBS WITHIN THE LIMITS OF CONSTRUCTION ARE SCHEDULED FOR REMOVAL. TREES ENCOUNTERED IN THE FIELD NOT LISTED ON THE TREE REMOVAL TABLE ARE UNPROTECTED TREES AND MAY BE REMOVED BY THE CONTRACTOR. TREES TO BE REMOVED SHALL CONSIST STRICTLY OF THE TREES INDICATED FOR REMOVAL IN THE PLANS. TREES NOT IDENTIFIED FOR REMOVAL IN THE PLANS AND OUTSIDE THE LIMITS OF CONSTRUCTION ARE CONSIDERED PROTECTED TREES. REMOVAL OF ANY PROTECTED TREE WITHOUT A PERMIT SHALL BE BASES FOR A VIOLATION OF REQUIREMENTS AND SUBJECT TO PENALTY.

1. TREE REMOVAL SHALL BE THE CONTRACTORS RESPONSIBILITY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE TREE REMOVAL WITH LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT, AND PUBLIC WORKS DEPARTMENT, OR THEIR DESIGNATED REPRESENTATIVE.

TREE PROTECTION BARRICADE PLAN VIEW (N.T.S.)



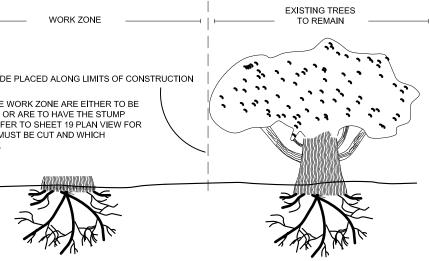
TREE PROTECTION BARRICADE PROFILE VIEW (N.T.S.)



AVOID DISTURBANCE OF THE ROOT ZONE TO THE GREATEST EXTENT POSSIBLE. MANAGEMENT. *NOTE: THE TREE PROTECTION BARRICADE MAY ALSO SERVE AS THE 2" X 4" FRAME REQUIRED AS BACKING FOR THE STAKED BALE BARRIER SILT FENCE. REVISIONS SEAL: LEON COUNTY Environmental & Geotechnical Specialists, Inc. DATE BY DESCRIPTION DATE BY DESCRIPTION DEPARTMENT OF PUBLIC WORKS 104 NORTH MAGNOLIA DRIVE PROJECT TITLE TALLAHASSEE, FLORIDA 32301 M. HAYDEN, P.E. OFFICE: (850) 386-1253 FAX: (850) 385-8050 LANIER STREET Cert. of Auth : 6222 P.E. NO.: 34067

TREE PROTECTION BARRICADE PLACED ALONG LIMITS OF CONSTRUCTION

TREES LOCATED WITHIN THE WORK ZONE ARE EITHER TO BE CUT OFF AT GROUND LEVEL, OR ARE TO HAVE THE STUMP COMPLETELY REMOVED. REFER TO SHEET 19 PLAN VIEW FOR LISTING OF WHICH STUMPS MUST BE CUT AND WHICH STUMPS MUST BE REMOVED.



CRITICAL PROTECTION ZONE (CPZ):

THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT (DBH).

FOR THIS PROJECT, A MINIMUM OF 60% OF THE CPZ MUST BE PROTECTED ON EXISTING TREES NOT BEING REMOVED FOR THE PROJECT.



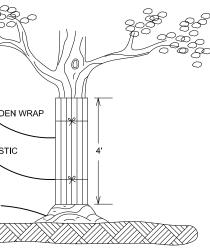
2" X 4" OR 2" X 6" CONTINUOUS WOODEN WRAP

12 GAUGE WIRE, PLASTIC OR METAL BANDS

DRAINAGE MAINTENANCE

TREE REMOVAL PROFILE VIEW (N.T.S.)

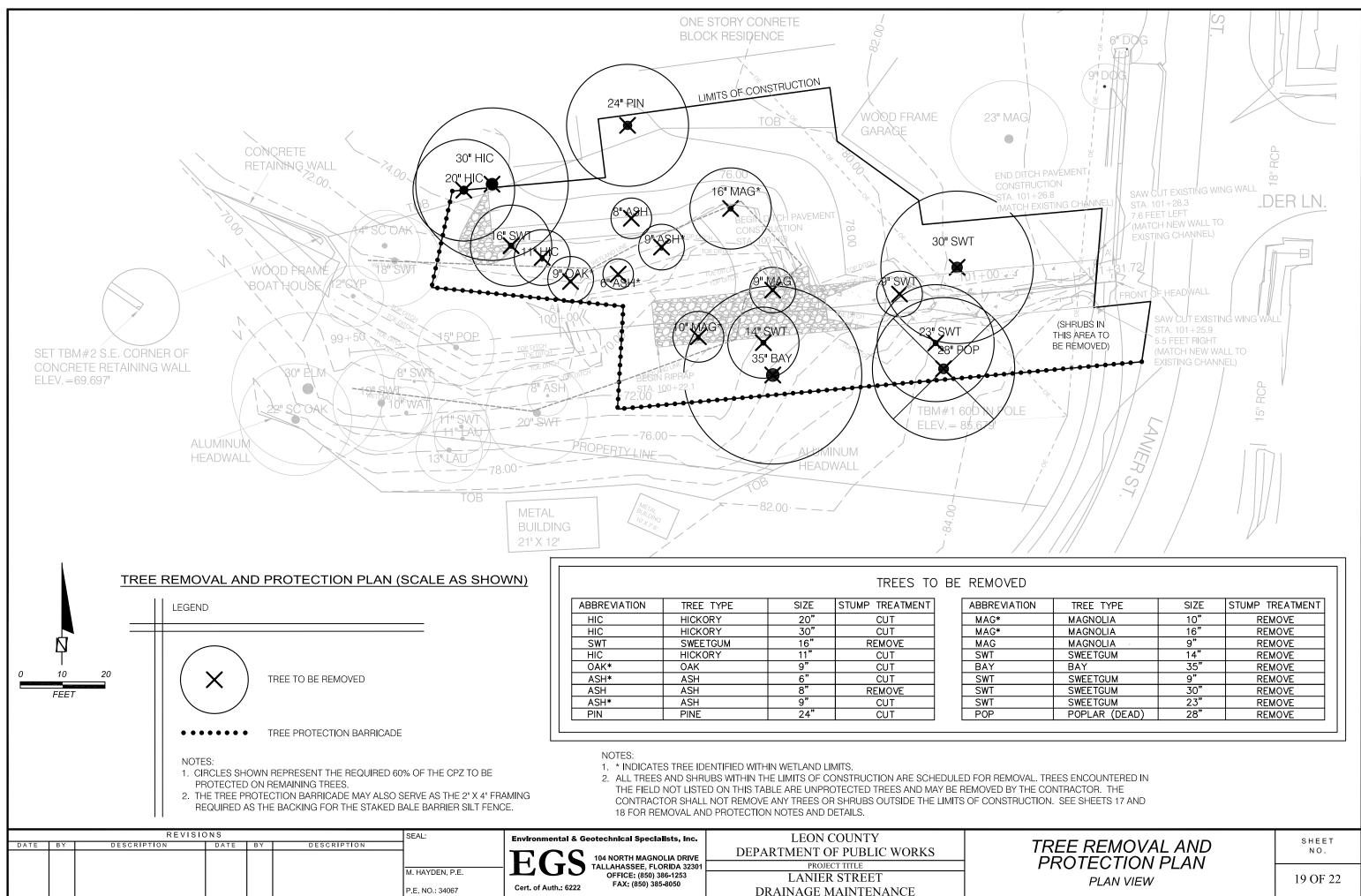
TRUNK PROTECTION WHERE APPLICABLE (N.T.S.)

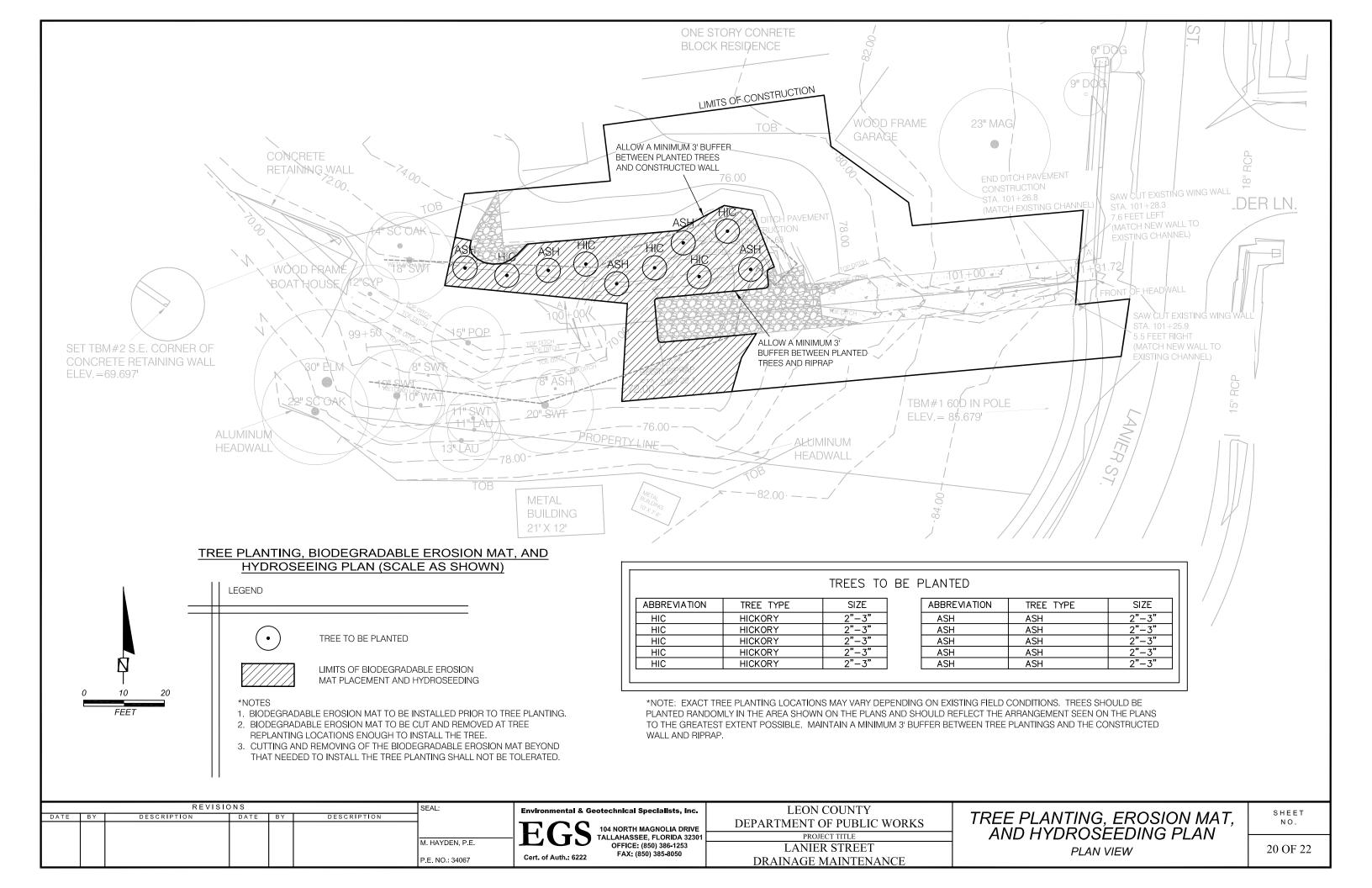


*NOTE: TRUNK PROTECTION MAY BE SUBSTITUTED FOR TREE PROTECTION BARRICADE WITH PRIOR APPROVAL OF LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL



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TREE PLANTINGS

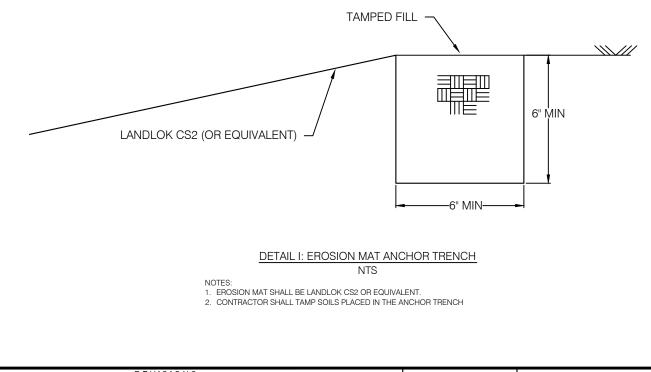
- 1. CONTAINER GROWN TREES SHALL BE MINIMUM 2" DIAMETER TREES, SPECIES AS SHOWN IN THE PLANS.
- 2. CONTAINER GROWN TREES SHALL MEET THE SPECIFICATION IN FDOT STANDARD STANDARD SPECIFICATION 580 AND BE PLANTED IN ACCORDANCE WITH DESIGN STANDARD INDEX 544.
- 3. CONTAINER GROWN TREES SHALL BE PLANTED IN THE AREA SHOWN ON THE PLANS AND BE RANDOMLY ARRANGED AS SHOWN ON THE PLANS TO THE GREATEST EXTENT POSSIBLE.
- 4. A MINIMUM 3' BUFFER SHALL BE MAINTAINED BETWEEN THE TREE PLANTINGS AND THE CONSTRUCTED WALL AND RIPRAP.

BIODEGRADABLE EROSION MAT

- 1. BIODEGRADABLE EROSION MAT SHALL BE A PROPEX LANDLOK CS2 OR EQUIVALENT.
- 2. THE EROSION MAT SHALL BE INSTALLED IN CONFORMANCE WITH THE MAT SUPPLIERS SPECIFICATIONS.
- 3. ROLL THE EROSION MAT OUT FROM UPPER ELEVATIONS TOWARDS LOWER ELEVATIONS. USE A 6" MINIMUM LAP FOR ALL EROSION MAT SEAMS. THE EROSION MAT SHALL BE INSTALLED SUCH THAT LAPPED SEAMS WILL NOT BE UNDERMINED BY WATER FLOW.
- 4. ALL EXTERIOR EROSION MAT EDGES SHALL BE HELD IN PLACE BY A 6" X 6" ANCHOR TRENCH AS SHOWN IN THE DETAIL.
- 5. THE EROSION MAT SHALL PROVIDE COMPLETE COVERAGE OF THE DESIGNATED AREA SHOWN IN THE PLANS WITH THE EXCEPTION OF TREE PLANTING LOCATIONS.
- 6. AT THE TREE PLANTING LOCATIONS, THE EROSION MAT IS TO BE CUT AND REMOVED TO THE MINIMAL EXTENT NECESSARY TO INSTALL THE TREE PLANTING.

HYDROSEEDING

- 1. THE SEED SHALL CONSIST OF 50% ST. AUGUSTINE GRASS AND 50% RYE.
- 2. THE CONTRACTOR SHALL USE 19-19-19 FERTILIZER IN ORDER TO ADEQUATELY FERTILIZE THE REQUIRED AREA.
- 3. HYDRSEEDING SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATION 570.



TREE ABBREVIATION	COMMONNAME	BOTANICAL NAME	DBH (INCHES)	TREE PLANTED	TREE CREDIT
HIC	HICKORY	CARYA SPP.	2 - 3	x	5
HIC	HICKORY	CARYA SPP.	2 - 3	x	5
HIC	HICKORY	CARYA SPP.	2 - 3	х	5
HIC	HICKORY	CARYA SPP.	2 - 3	×	5
HIC	HICKORY	CARYA SPP.	2 - 3	х	5
ASH	ASH	FRAXINUS SPP.	2 - 3	x	5
ASH	ASH	FRAXINUS SPP.	2 - 3	х	5
ASH	ASH	FRAXINUS SPP.	2 - 3	x	5
ASH	ASH	FRAXINUS SPP.	2 - 3	х	5
ASH	ASH	FRAXINUS SPP.	2 - 3	x	5

				SEAL:	Environmental & G	eotechnical Specialists, Inc.	LEON COUNTY			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	-	TOO	104 NORTH MAGNOLIA DRIVE	DEPARTMENT OF PUBLIC WORKS	TREEF
						M. HAYDEN, P.E.	IH/(┱Ŋ	TALLAHASSEE, FLORIDA 32301	PROJECT TITLE	AND
						M. HATDEN, P.E.		OFFICE: (850) 386-1253 FAX: (850) 385-8050	LANIER STREET	TREE CRE
						P.E. NO.: 34067	Cert. of Auth.: 6222	1 Ast. (000) 000 0000	DRAINAGE MAINTENANCE	

TREE CREDIT INDEX TABLE

PROJECT TOTALS

TREES PLANTED	TREE CREDITS		
10	50		

E PLANTING, EROSION MAT, ID HYDROSEEDING PLAN REDIT INDEX TABLES, NOTES, & DETAILS

SHEET NO.

