

# BID DOCUMENTS

FOR

## LEON COUNTY SOLID WASTE MANAGEMENT FACILITY CLASS I AND CLASS III LANDFILL CLOSURE

LOCATED:

### TALLAHASSEE, LEON COUNTY, FLORIDA

PROJECT CONTACT INFORMATION :

OWNER: LEON COUNTY  
7550 APALACHEE PARKWAY  
TALLAHASSEE, FL 32301-1860

ENGINEER: LOCKLEAR & ASSOCIATES  
ENGINEERING & ENVIROMENTAL CONSULTING  
4140 SW 37TH PLACE, SUITE A  
GAINESVILLE, FL 32606  
PH:(352) 672-6867

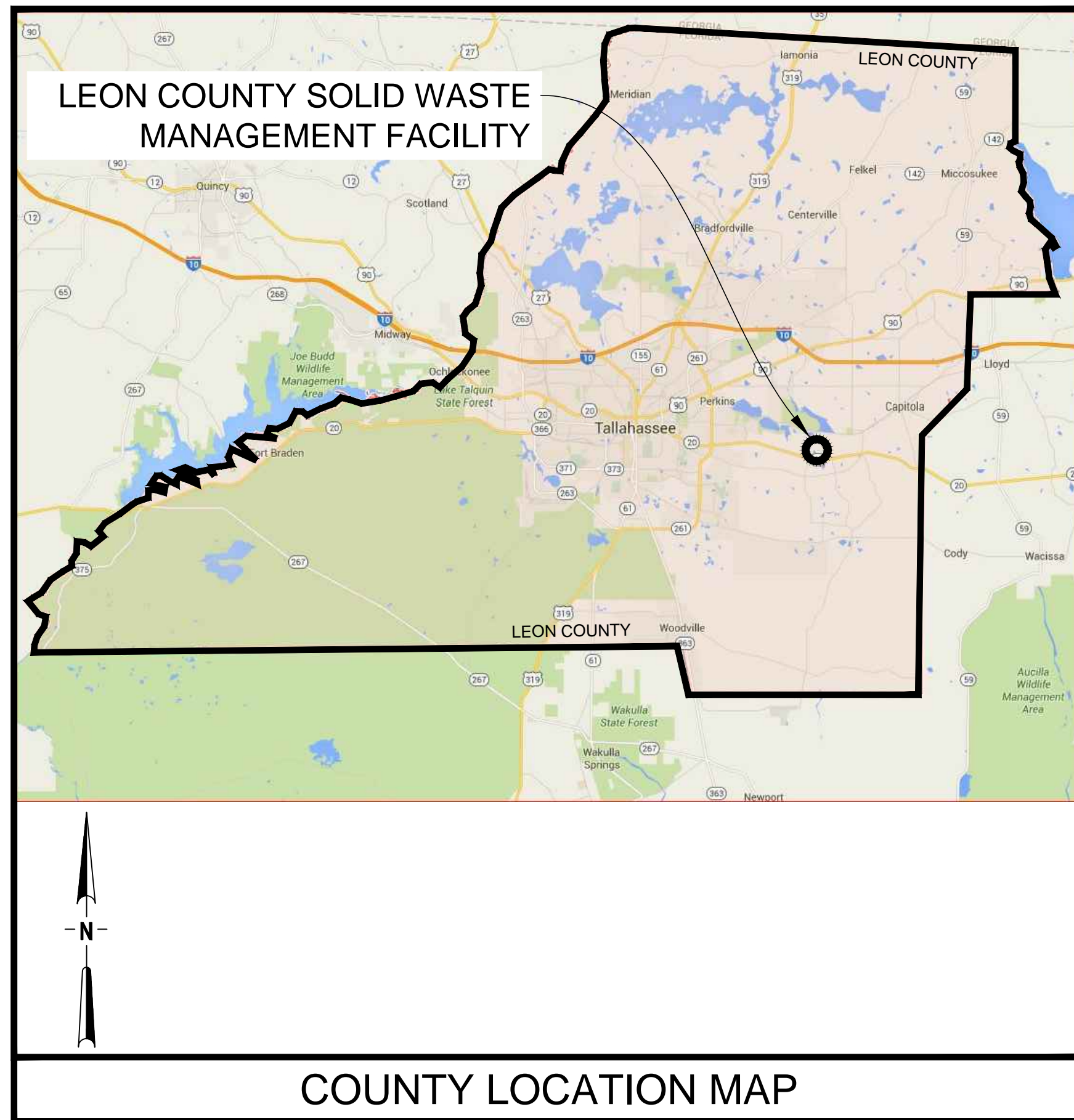
SURVEYOR: DIVERSIFIED DESIGN & DRAFTING SERVICES, INC  
2374 CAPITAL CIRCLE NE  
TALLAHASSEE, FL 32308  
PH:(850) 385-1133

PREPARED FOR  
LEON COUNTY, FLORIDA

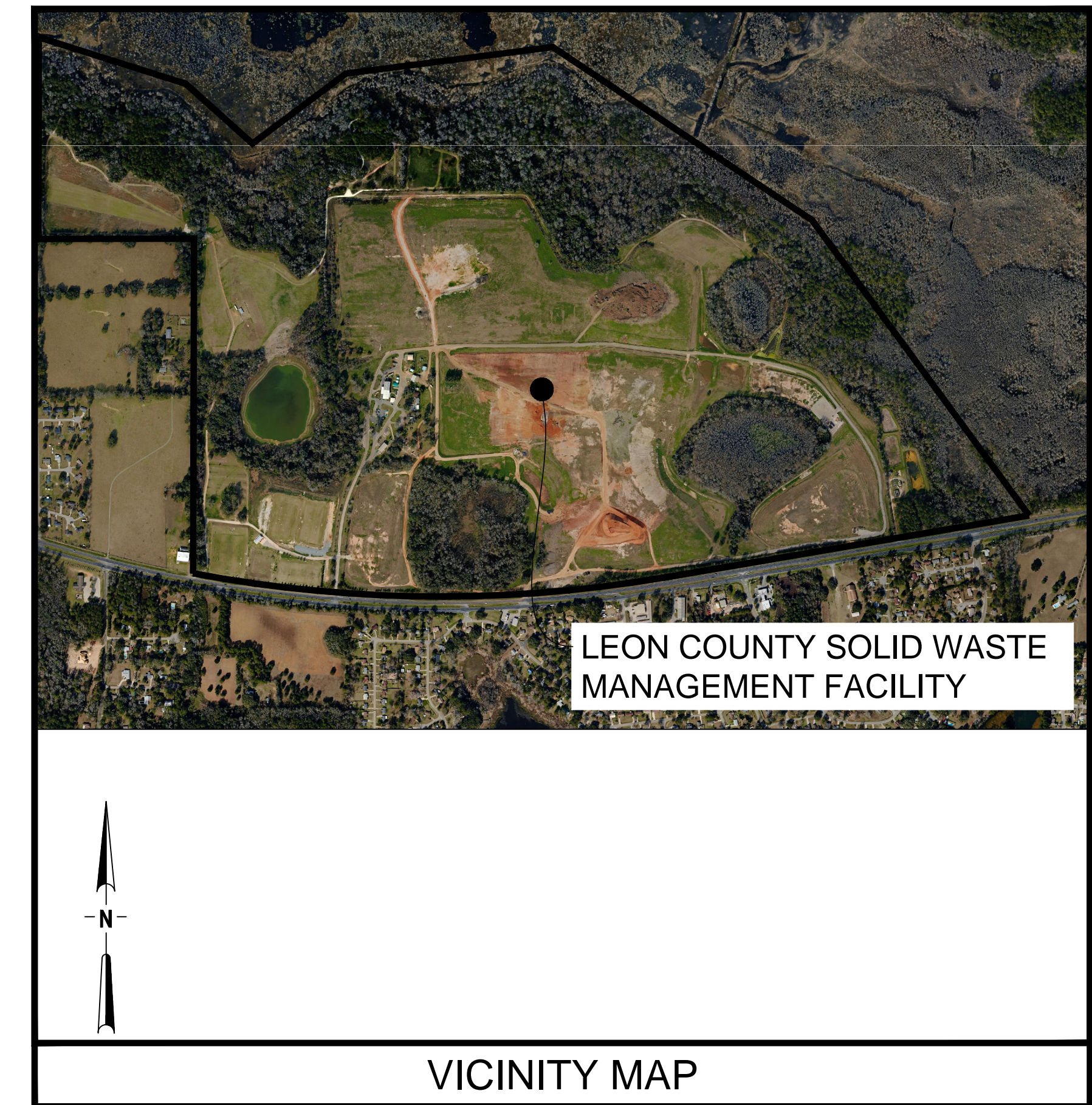


**LEON COUNTY COMMISSIONERS**

BILL PROCTOR	DISTRICT 1
JIMBO JACKSON	DISTRICT 2
JOHN E. DAILEY	DISTRICT 3
BRYAN DESLOGE	DISTRICT 4
KRISTIN DOZIER	DISTRICT 5
MARY ANN LINDLEY	AT-LARGE
NICK MADDOX	AT-LARGE



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4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066

PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

SHEET TITLE:  
**COVER SHEET**

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C0.00

**GENERAL NOTES**

- THE TOPOGRAPHIC SURVEY SHOWN HEREON IS A COMPOSITE OF TWO SURVEYS. THE FIRST WAS COMPLETED BY PICKETT SURVEYING & PHOTOGRAMMETRY AND DATED JUNE 24, 2014. PER THE PICKETT SURVEY THE BOUNDARIES OF DISPOSAL AREAS PROVIDED BY POST, BUCKLEY, SCHUH & JERNIGAN. THE SECOND WAS COMPLETED BY DIVERSIFIED DESIGN & DRAFTING SERVICES, INC. AND DATED 10/07/15. PER THE DIVERSIFIED SURVEY THE TOPOGRAPHIC SURVEY INFORMATION SHOWN ON PLANS INCLUDES DATA FROM A SURVEY PREPARED BY J. SHERMAN FRIER & ASSOCIATES, INC. P.L.S., DATED 8-28-2002.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED.
- FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED CONSTRUCTION TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED FACILITIES TO THE ORDERED DEVIATION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- CONSTRUCTION MONUMENTS FOR VERTICAL AND HORIZONTAL CONTROL HAVE BEEN PROVIDED AT THE PROJECT SITE. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THESE MONUMENTS TO HIS SATISFACTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER VERTICAL AND HORIZONTAL ALIGNMENT OF CONSTRUCTED FACILITIES AND FINISHED GRADE WITHIN THE SPECIFIED TOLERANCES.
- THE CONTRACTOR SHALL SATISFY HIMSELF/HERSELF AS TO THE ACCURACY OF ALL SURVEY AND OTHER GRADING DATA. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE INFORMATION PROVIDED ON THE DRAWINGS AND EXISTING CONDITIONS HE/SHE SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THAT PROPER CONTRACT ADJUSTMENTS CAN BE MADE. COMMENCEMENT OF WORK BY THE CONTRACTOR SHALL BE HELD AS ACCEPTANCE OF THE SURVEY AND DRAWING DATA.
- ANY NGVD '29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY:  
MR. NICK CAMPANILE  
FLORIDA DEPARTMENT OF NATURAL RESOURCES  
BUREAU OF SURVEYS AND MAPPING  
3900 COMMONWEALTH BLVD.  
MS 105  
TALLAHASSEE, FLORIDA 32399-3000  
TELEPHONE # (850) 245-2555
- THE SLOPES AND ELEVATIONS SHOWN ON DRAWING C1.00 ARE SUBJECT TO CHANGE DUE TO SETTLEMENT OF WASTE, EROSION AND REGRADING BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE PROPOSED FINISHED GRADES SHOWN ON THE DRAWINGS AND AS SPECIFIED.
- THE CONTRACTOR IS ADVISED THAT THE OWNER HAS PLACED APPROXIMATELY 6 INCHES OF INITIAL SOIL COVER OVER THE WASTE. THIS COVER MAY NOT BE IN PLACE AT THE TIME OF CONSTRUCTION DUE TO EROSION, STORMWATER, ETC. THE CONTRACTOR SHALL VERIFY THE THICKNESS OF THE COVER, AS INDICATED ON DWG C1.00, AND SHALL PROVIDE, PLACE AND REGRADE MATERIAL AS REQUIRED TO SATISFY THE MINIMUM REGULATORY REQUIREMENT OF 12 INCHES OF INTERMEDIATE SOIL COVER AND PROPOSED SLOPES AS SPECIFIED, AT NO ADDITIONAL COST TO THE OWNER.
- PROPOSED CONTOUR ELEVATIONS SHOWN ON THE "INTERMEDIATE COVER AND SITE GRADING PLAN" AND THE "FINAL COVER GRADING PLAN" ARE BASED ON HISTORICAL SURVEY DATA AND MAY NOT BE ACCURATE BASED ON EXISTING SITE CONDITIONS. CONTRACTOR SHALL CONSTRUCT INTERMEDIATE AND FINAL COVER SYSTEMS TO CONFORM WITH SLOPES SHOWN ON THE DRAWINGS AND MINIMUM THICKNESS REQUIREMENTS SHOWN IN THE DETAILS.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING THE WORK.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM A FINAL TOPOGRAPHIC SURVEY TO PROVIDE DEP REQUIRED RECORD DRAWING INFORMATION AND TO VERIFY THAT THE FINAL CONTOURS AND ELEVATIONS ARE IN ACCORDANCE WITH THE DRAWINGS AND CONTRACT DOCUMENTS. REFER TO THE CONSTRUCTION DOCUMENTS FOR FINAL TOPOGRAPHIC SURVEY, RECORD DRAWING AND MONUMENTATION REQUIREMENTS. THE SURVEY SHALL BE PERFORMED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED AS REQUIRED BY THE CONTRACT DOCUMENTS.

- CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT GROUNDWATER MONITORING WELLS/PIEZOMETERS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE MONITORING WELLS/PIEZOMETERS DAMAGED DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE ENGINEER AND DEP WITHOUT INCREASE IN CONTRACT PRICE OR TIME UNLESS DESIGNATED FOR REMOVAL OR ABANDONMENT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PREVAILING FEDERAL, STATE, LOCAL, AND OTHER APPLICABLE REGULATIONS. REGULATIONS THAT CONFLICT WITH THESE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- THE CONTRACTOR SHALL STATE IN WRITING PRIOR TO BEGINNING WORK THAT HE/SHE WILL COMPLY WITH APPLICABLE TRENCH SAFETY STANDARDS.
- WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION ANGLE. MINIMUM PIPE RADIUS SHALL BE A MINIMUM OF 25% IN EXCESS OF THE MANUFACTURER'S RECOMMENDED MINIMUM RADIUS.
- CONTRACTOR SHALL PREVENT DISTURBANCE TO AND UNDERMINING OF ADJACENT STRUCTURES, SLABS, PIPING, AND OTHER UTILITIES/FACILITIES DURING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, FENCES, SIGNS AND OTHER IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION, AS A RESULT OF CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, FENCES, SIGNS AND OTHER IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION, AS A RESULT OF CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- SITE STORMWATER AND CONVEYANCE SYSTEMS SHALL BE "ROUGHED IN" PRIOR TO ALL OTHER SITE DEVELOPMENTS. THE CONTRACTOR SHALL NOT ALLOW SILT OR SEDIMENT TO DISCHARGE FROM THE SITE OR INTO THE EXISTING STORMWATER RETENTION POND. THE CONTRACTOR SHALL SUBMIT AN ENVIRONMENTAL PROTECTION PLAN TO THE ENGINEER IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- NO DISTURBANCE SHALL BE ALLOWED OUTSIDE OF THE AREAS SHOWN ON THE FINAL GRADING PLAN UNLESS APPROVED BY THE ENGINEER, OR SPECIFICALLY NOTED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PROTECTING THE GEOMEMBRANE AT ALL TIMES. WIND BLOWN GEOMEMBRANE SHALL BE CONSIDERED DAMAGED AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. DURING GEOMEMBRANE PLACEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VENTING LANDFILL GAS SUCH THAT THE GEOMEMBRANE MAINTAINS INTIMATE CONTACT WITH THE UNDERLYING SOIL AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL PROTECTION DURING THE LIFE OF THE CONTRACT, INCLUDING THE WARRANTY PERIOD. THE CONTRACTORS OPERATIONS SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WATER, AIR, SOLID WASTE, HAZARDOUS WASTE MATERIALS, OILY SUBSTANCES, AND NOISE POLLUTION. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO COMPLY WITH THESE REGULATIONS FOR BOTH TEMPORARY AND PERMANENT CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL TERMS, CONDITIONS, AND REQUIREMENTS OF ALL APPLICABLE PERMITS, INCLUDING DEP PERMITS FOR THE SITE.
- CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS, AND FLAGMEN AS REQUIRED BY FDOT IN THE "MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES".
- ALL PIPING SHALL HAVE MINIMUM COVER OF 24" UNLESS OTHERWISE NOTED.
- ALL HDPE GAS COLLECTION SYSTEM PIPING SHALL BE SDR-11.
- ALL FASTENERS, FLANGE BACKUP PIPING, AND METALS USED FOR THE GAS COLLECTION SYSTEM SHALL BE 304 SERIES STAINLESS STEEL UNLESS OTHERWISE INDICATED.

**SITE HEALTH AND SAFETY NOTES**

- THIS PROJECT INVOLVES WORK IN AND AROUND A RECENTLY ACTIVE CLASS I AND CLASS III LANDFILLS. THE CONTRACTOR SHALL PROTECT ALL PERSONNEL FROM ALL HAZARDS ASSOCIATED WITH WORKING AT A LANDFILL, INCLUDING CONTACT WITH LEACHATE, OTHER CONTAMINATED MEDIA, LANDFILL GASES, MICROBIOLOGICAL AIRBORNE CONTAMINANTS, DANGEROUS CHEMICALS, SHARP OBJECTS, AND OTHER HAZARDS (CHEMICAL, PHYSICAL, AND RADIOLOGICAL, ETC.). AT A MINIMUM CONTRACTOR SHALL COMPLY WITH "A COMPILATION OF LANDFILL GAS LABORATORY AND FIELD PRACTICES AND PROCEDURES - HEALTH AND SAFETY SECTION", AUGUST 1997 AVAILABLE FROM THE SOLID WASTE ASSOCIATION OF NORTH AMERICA (www.swana.org). THE CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY TO ASSURE WORKER HEALTH AND SAFETY IN COMPLIANCE WITH OSHA CHAPTERS 1910 AND 1926 (SPECIFICALLY WITH 1910.120), AND OTHER APPLICABLE REGULATIONS. A HEALTH AND SAFETY PLAN SHALL BE PREPARED AND APPROVED BY A CERTIFIED INDUSTRIAL HYGIENIST PRIOR TO ANY WORK ON-SITE.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT PERSONNEL FROM ASPHYXATION, POISONING, EXPLOSION, AND/OR OTHER HAZARDS DUE TO THE PRESENCE OF LANDFILL GASES, LEACHATE, WASTE, ETC.
- CONTRACTOR SHALL PROVIDE A HEALTH AND SAFETY SUPERVISOR ON-SITE IN ACCORDANCE WITH SECTION 01100 OF THE CONTRACT DOCUMENTS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990. CONTRACTOR SHALL CERTIFY IN WRITING TO THE ENGINEER, PRIOR TO STARTING WORK, THAT ALL WORK SHALL COMPLY WITH FLORIDA TRENCH SAFETY ACT.

**ABBREVIATIONS**

**GENERAL**

@	AT	LAH	LONG AXIS HORIZONTAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LBR	LIMEROCK BEARING RATIO
BLD FLG	BLIND FLANGE	LC	LEACHATE COLLECTION
BM	BENCH MARK	LD	LEACHATE DETECTION
BOT	BOTTOM	LDPE	LOW DENSITY POLYETHYLENE
C	CONDUIT	LFG	LANDFILL GAS
CDP	CONDENSATE DISCHARGE PIPE	LP	LOW POINT
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE	MAX	MAXIMUM
C/M	CONSTRUCTION MONUMENT	MES	MITERED END SECTION
CY	CUBIC YARDS	MIN	MINIMUM
DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION	MSL	MEAN SEA LEVEL
DIA	DIAMETER	MW	MONITORING WELL
DOT	DEPARTMENT OF TRANSPORTATION (FLORIDA)	N	NORTHING
DWG	DRAWING	NGVD	NATIONAL GEODETIC VERTICAL DATUM
E	EASTING	NIC	NOT IN CONTRACT
EL	ELEVATION	NMW	NEW MONITORING WELL
ELEV	ELEVATION	NO	NUMBER
EW	EACH WAY	NOM	NOMINAL
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	NTS	NOT TO SCALE
FIN	FINISH(ED)	OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
FPM	FILTER POINT MAT	PE	POLYETHYLENE PLACES
FT	FEET	PLCS	PLACES
GC	GAS COLLECTION	S	SOUTH
GCL	GEOSYNTHETIC CLAY LINER	SCH	SCHEDULE
GP	GAS PROBE	SDR	STANDARD DIMENSION RATIO
GR	GRADE	SHT	SHEET
GRND	GROUND	SJM	SIMILAR
GV	GAS VENT	SPEC	SPECIFICATION
H	HORIZONTAL	SS	STAINLESS STEEL
HDPE	HIGH DENSITY POLYETHYLENE	STA	STATION
HP	HIGH POINT	STD	STANDARD
ID	INSIDE DIAMETER	STL	STEEL
IE	INVERT ELEVATION	TYP	TYPICAL
INV	INVERT	USGS	UNITED STATES GEOLOGICAL SURVEY
		V	VERTICAL
		WGT/WT	WEIGHT

**MECHANICAL**

BVF	BUTTERFLY VALVE
BV	BALL VALVE
BWJ	BUTT-WELDED JOINT
CMP	CORRUGATED METAL PIPE
CP	CORRUGATED PIPE
CV	CHECK VALVE
FJ	FLANGED JOINT
FLG	FLANGE
FM	FLOW METER
HDPE	HIGH DENSITY POLYETHYLENE
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LDPE	LOW DENSITY POLYETHYLENE
LR	LONG RADIUS
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RED	REDUCER
SOF	SLIP ON FLANGE
SWJ	SOLVENT WELDED JOINT
THR	THREAD(ED)
WJ	WELDED JOINT

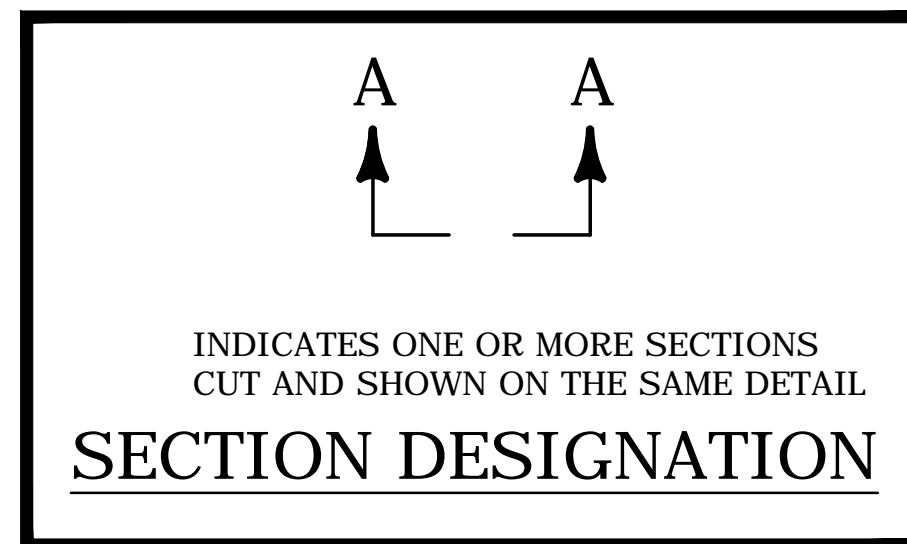
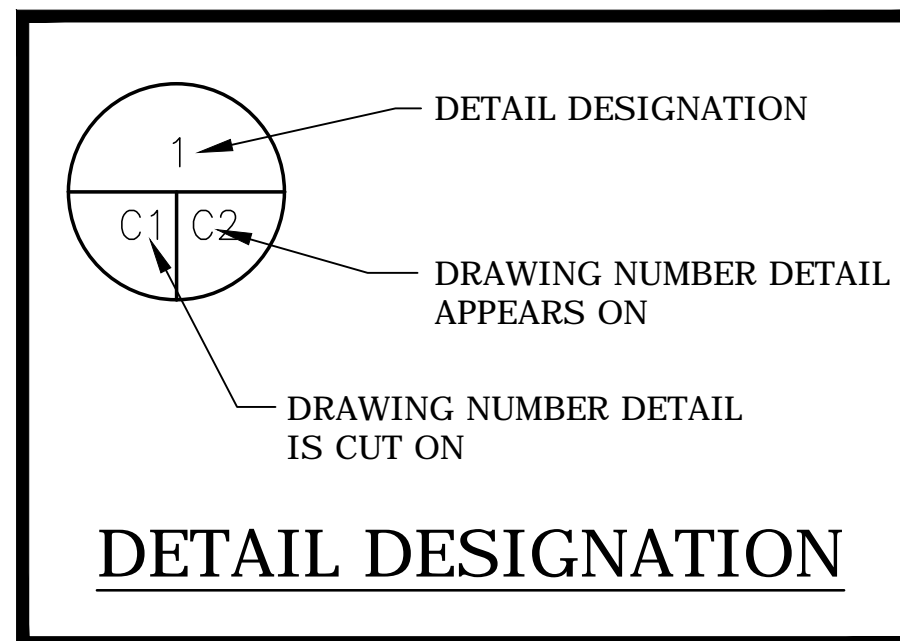
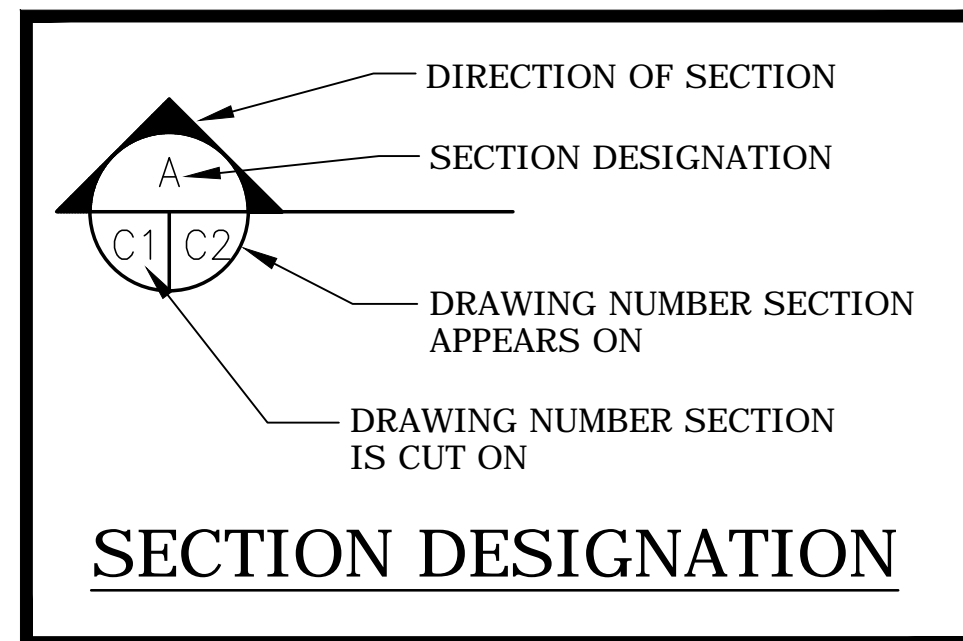
  

**STRUCTURAL**

CL	CENTER LINE
CONC	CONCRETE
EW	EACH WAY
GRGT	GRATING
OC	ON CENTER(S)
SQ	SQUARE
T/	TOP OF
W/	WITH
WWF	WELDED WIRE FABRIC
Ø	DIAMETER

**LEGEND**

CLNO 8	EXISTING 8" CLEANOUT	PV1 GMW-1	QUARTERLY METHANE MONITORING VENT OR PROBE
CLNO 6	EXISTING 6" CLEANOUT	1A Δ	QUARTERLY GAS MONITORING SURFACE LOCATION
MG PVC 8"	EXISTING 8" PVC GAS COLLECTION PIPE	V1	TEMPORARY METHANE MONITORING VENT OR PROBE
MG PVC 2"	EXISTING 2" PVC GAS COLLECTION PIPE	S1 Δ	TEMPORARY GAS MONITORING SURFACE LOCATION
MW-TR	EXISTING GROUND WATER MONITORING WELL	MW-AB	BACKGROUND GROUNDWATER MONITORING WELLS
GMW-XX	EXISTING GAS MONITORING WELL	MW-8	DETECTION GROUNDWATER MONITORING WELLS
		MW-AA	COMPLIANCE GROUNDWATER MONITORING WELLS
		MW-A	WATER LEVEL MEASUREMENT LOCATIONS
	EXISTING OVERHEAD POWER POLE		
	EXISTING UTILITY POLE		
---	PROPERTY BOUNDARY		
---	LEACHATE FORCEMAIN	-----	EXISTING STORM PIPE
---	EXISTING FENCE	□	EXISTING STORM GRATE
---	DISPOSAL CELL BOUNDARY	---	WETLAND LIMITS



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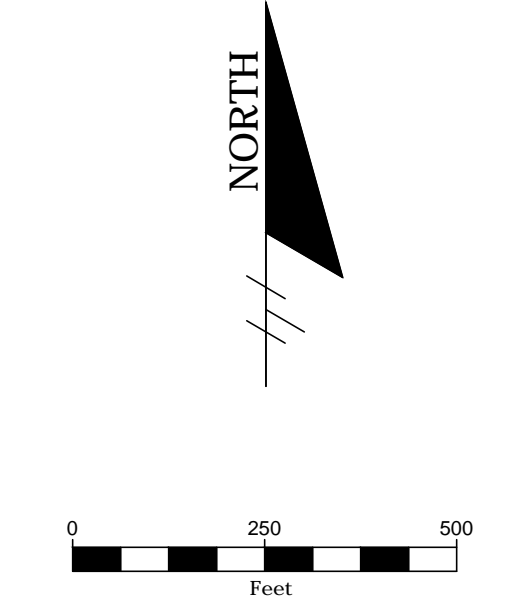
	<b>Locklear &amp; Associates</b>
	4140 NW 37th Place, Suite A Gainesville, Florida 32606 Phone: 352.672.6867 Fax: 352.692.5390 Certificate of Authorization No. 30066

	PROJECT TITLE: <b>LEON COUNTY SOLID WASTE MANAGEMENT FACILITY CLASS I AND CLASS III LANDFILL CLOSURE</b> TALLAHASSEE, LEON COUNTY, FLORIDA
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	CHECKED BY	JDL
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SHEET TITLE: <b>GENERAL NOTES, ABBREVIATIONS AND LEGEND</b>	
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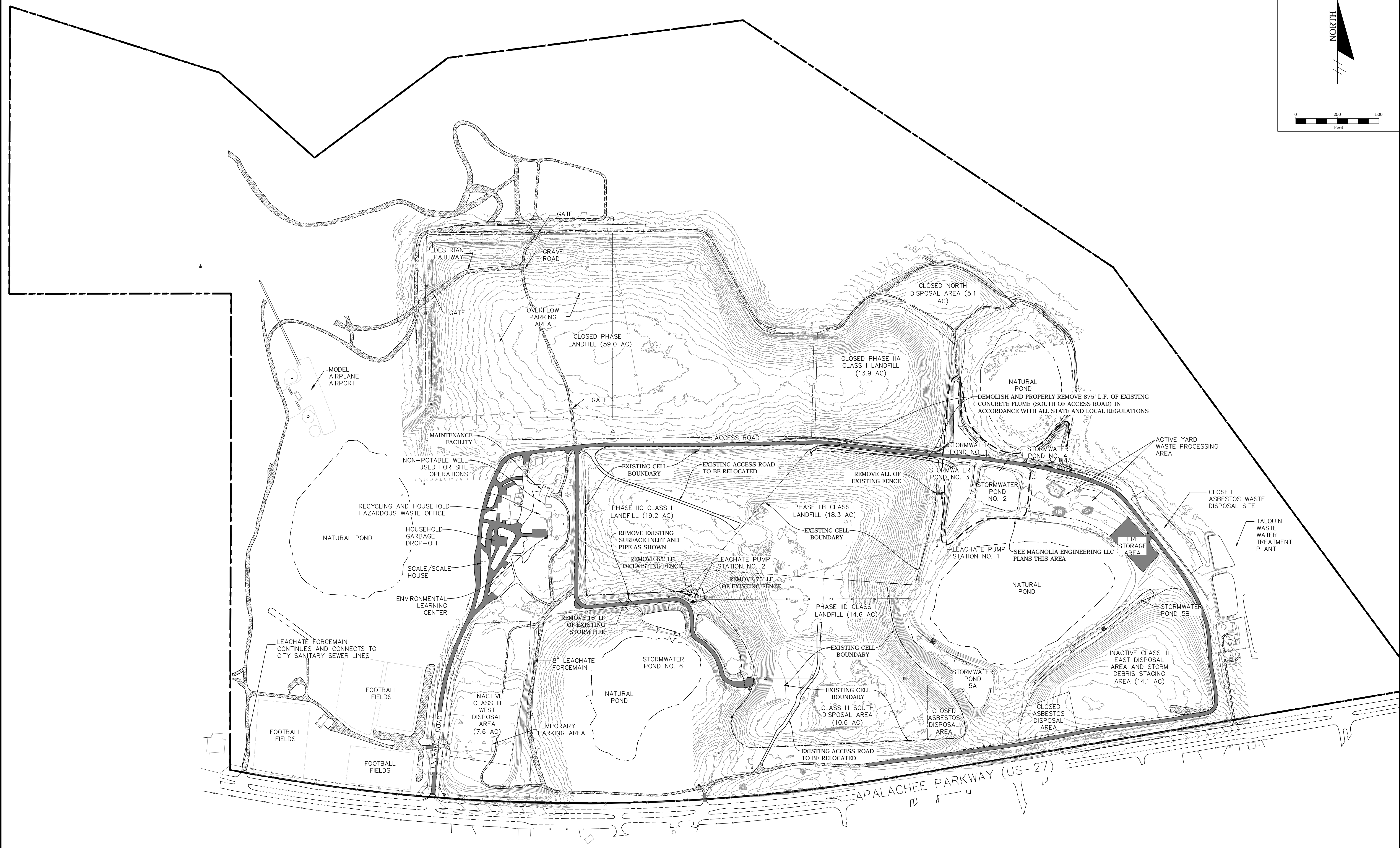
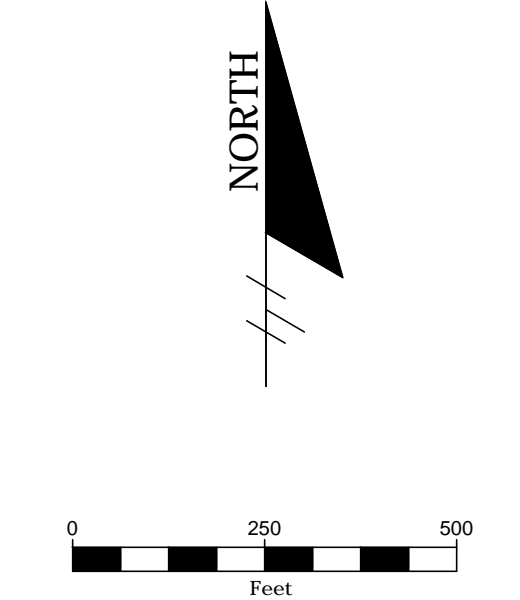
**LEON COUNTY**

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SHEET TITLE:  
**AERIAL SITE PLAN**

PROJECT NO.:	07000-173-15
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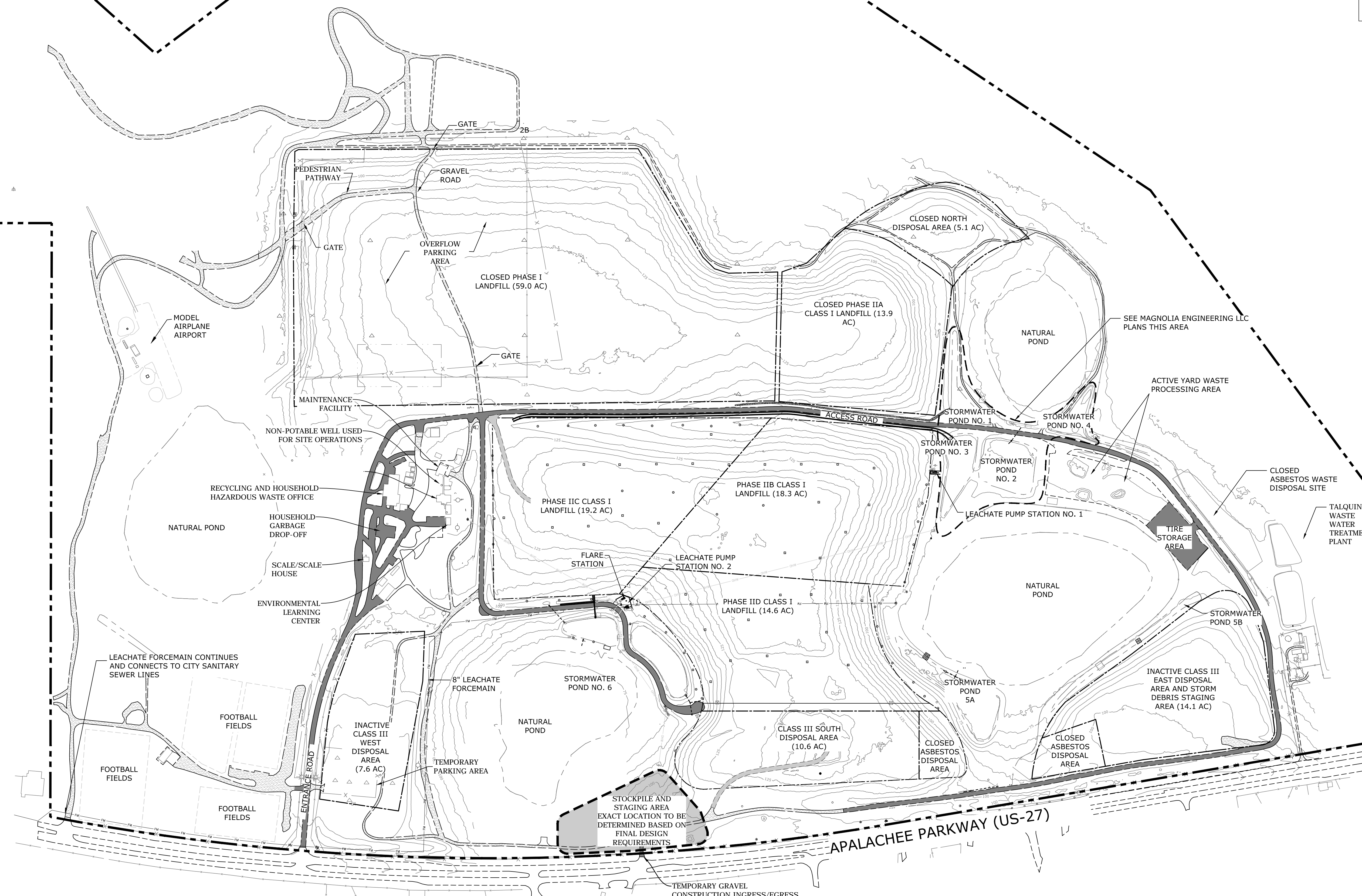
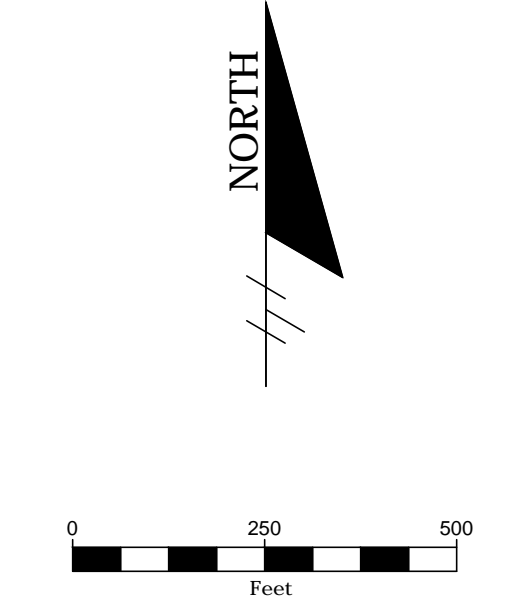
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**SHEET TITLE:**  
EXISTING CONDITIONS AND DEMOLITION

PROJECT NO.:	07000-173-15
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REFERRAL NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.




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SHEET TITLE:  
**STOCKPILE AND STAGING PLAN**

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**REFERRAL NOTES**

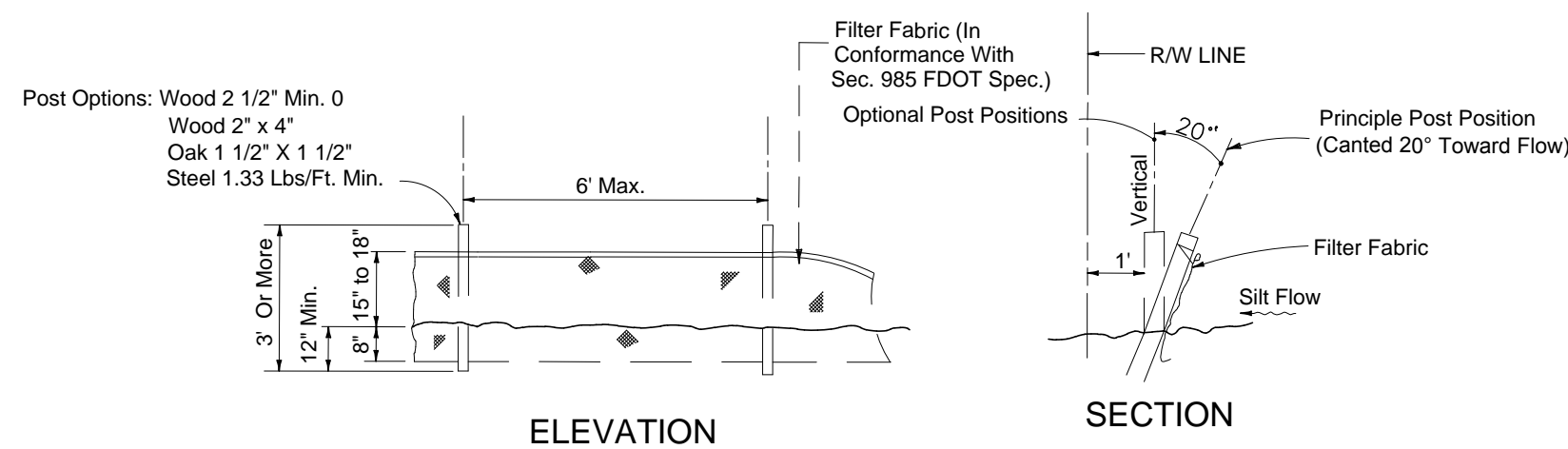
1. SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.

**GENERAL NOTES**

1. THE CONTRACTOR IS REQUIRED TO FOLLOW THE EROSION CONTROL PLAN FROM BEFORE CONSTRUCTION BEGINS UNTIL AS-BUILTS HAVE BEEN SUBMITTED. IF THE DESIGNED EROSION AND SEDIMENT CONTROL PLAN DOES NOT WORK OR BECOMES INEFFECTIVE, THE CONTRACTOR SHALL USE THE FLORIDA STORMWATER, EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL TO IMPLEMENT CHANGES THAT WILL WORK.
2. TO THE EXTENT POSSIBLE, CONTRACTOR SHALL MINIMIZE LAND DISTURBANCE. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ONTO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE. THE BARRIER MUST REMAIN IN PLACE UNTIL UPLAND VEGETATION IS ESTABLISHED.
3. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT. CONTRACTOR SHALL CLEAN STORMWATER STRUCTURES (IE. CHANNELS, CULVERT PIPES, CATCH BASINS AND PONDS) TO REMOVE ALL SEDIMENT TO MEET DESIGN BOTTOM ELEVATIONS AS SHOWN ON PLANS. ALL SEDIMENTS SHALL BE DISPOSED OF ON SITE AS DIRECTED BY OWNER.

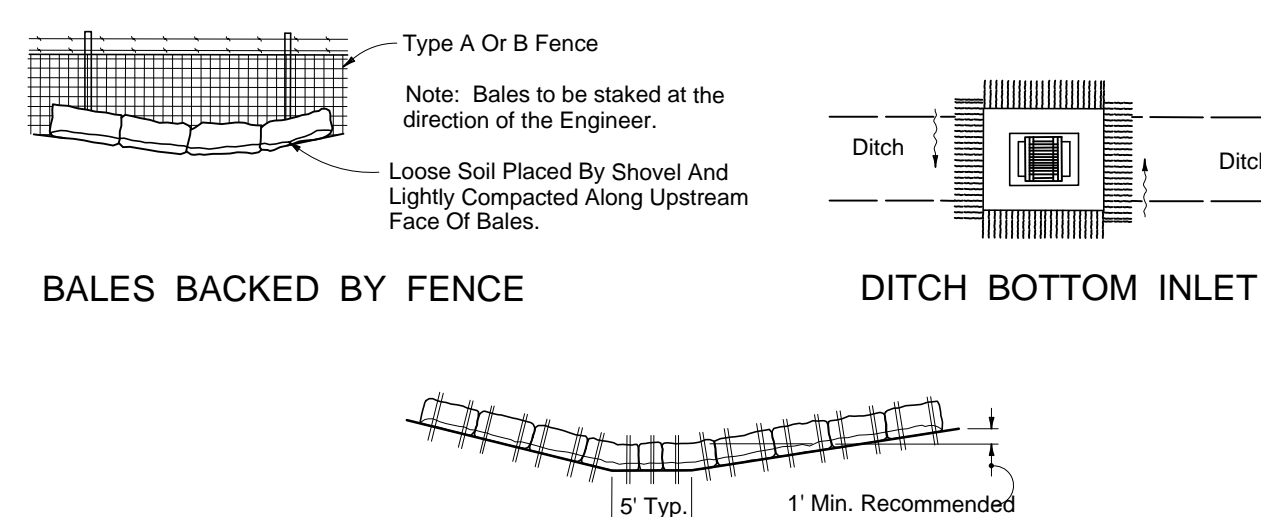
**ENVIRONMENTAL NOTES:**

1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND OR NATIVE VEGETATION AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED IN ACCORDANCE WITH APPLICABLE PLAN DETAIL AND SPECIFICATION SECTIONS.
2. BEFORE COMMENCING CONSTRUCTION ACROSS OR ADJACENT TO WETLANDS JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT FENCING SHALL BE CONSIDERED AS THE LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. WETLAND JURISDICTIONAL AREAS SHOWN ON THE PLANS WHICH ARE ADJACENT TO THE WORK AND NOT PROTECTED BY SILT FENCING SHALL BE CLEARLY DELINEATED ON THE SITE AND ENDURE THROUGHOUT CONSTRUCTION AND BE DISCERNABLE TO CONSTRUCTION PERSONNEL.
3. STAKED OR FLOATING SILT SCREENS OR HAY BALES SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. THESE BARRIERS SHALL BE INSTALLED BEFORE COMMENCING WITH ANY CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS AND FENCING INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SILT BARRIERS AND FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACED AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AND STABILIZATION OF ALL SIDE SLOPES HAS BEEN ACHIEVED, SILT BARRIERS AND FENCING SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER AND BEFORE FINAL ACCEPTANCE.
4. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED SYNTHETIC BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY OR WETLAND AREA TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES. ANY DEWATERING DISCHARGES SHALL MEET STATE WATER QUALITY STANDARDS. EXCAVATION ACROSS ALL WETLANDS SHALL BE ACCOMPLISHED BY STRIPPING THE TOP 10 INCHES OF SURFICIAL SOILS FROM THE FULL WIDTH OF THE AREA TO BE DISTURBED. SURFICIAL SOILS SHALL BE REPLACED LAST AND SHALL BE SPREAD ACROSS THE ENTIRE DISTURBED WETLAND AREA TO HELP PROMOTE NATIVE VEGETABLE GROWTH. SURFICIAL SOILS SHALL NOT BE STOCKPILED IN EXCESS OF TWO WEEKS. FURTHER, ALL ASPECTS OF BACKFILLING, GRADING AND MULCHING SHALL BE COMPLETE WITHIN 30 DAYS OF INITIAL WETLAND IMPACT FOR EACH JURISDICTIONAL AREA.
5. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO WETLANDS UNLESS OTHERWISE SHOWN ON PLANS. ADDITIONALLY, SILT BARRIERS AND FENCING SHALL CONTINUOUSLY AND FULLY ENIRCLE ALL STOCKPILES WHICH WILL REMAIN FOR LONGER THAN 24 HOURS TO CONTAIN MATERIALS WITHIN A REASONABLY CONTAINED AREA.
6. BANKS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL BE CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. SANDRAGS SHALL BE USED FOR PROTECTING THE BANKS. UPON COMPLETION OF CONSTRUCTION, BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.
7. ALL DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF PAVEMENT OR VEGETATION. WATERING, APPLICATION OF CALCIUM CHLORIDE OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT PAVEMENT, GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INCORPORATED AS SOON AS POSSIBLE.
8. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHOUT COORDINATING SUCH REMOVAL WITH THE ENGINEER. IF ANY TREES ARE REMOVED IN WETLAND JURISDICTIONAL, OR NATIVE VEGETATION AREAS WITHOUT PROPER AUTHORIZATION, CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RESTORATION AND/OR MITIGATION PLAN, SUBMITTING PLAN TO AND OBTAINING APPROVAL FROM FDEP, WATER MANAGEMENT DISTRICT, COUNTY, OWNER AND ENGINEER, AND COMPLETING ANY MONITORING AND MAINTENANCE REQUIREMENTS IMPOSED AS A RESULT OF TREE REMOVAL.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING VEGETATION REMOVAL PERMITS WITH FDEP, WATER MANAGEMENT DISTRICT, COUNTY, OWNER AND ENGINEER BEFORE CONSTRUCTION.
10. SELECTIVE CLEARING AND GRUBBING INCLUDES REMOVAL OF VEGETATION AND PAVEMENT ONLY WHEN REQUIRED FOR INSTALLATION OF NEW UTILITIES OR TO ACCOMMODATE SUBSTANTIAL GRADE CHANGES.
11. UPON COMPLETION OF ROUGH GRADING OF THE DRAINAGE DETENTION AREA, ALL BACKSLOPES SHALL BE IMMEDIATELY STABILIZED WITH SOD TO PREVENT SILTATION INTO THE WETLANDS FROM THE OUTSIDE SLOPES.



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

REFERENCE: FDOT INDEX 102 SHEET 3

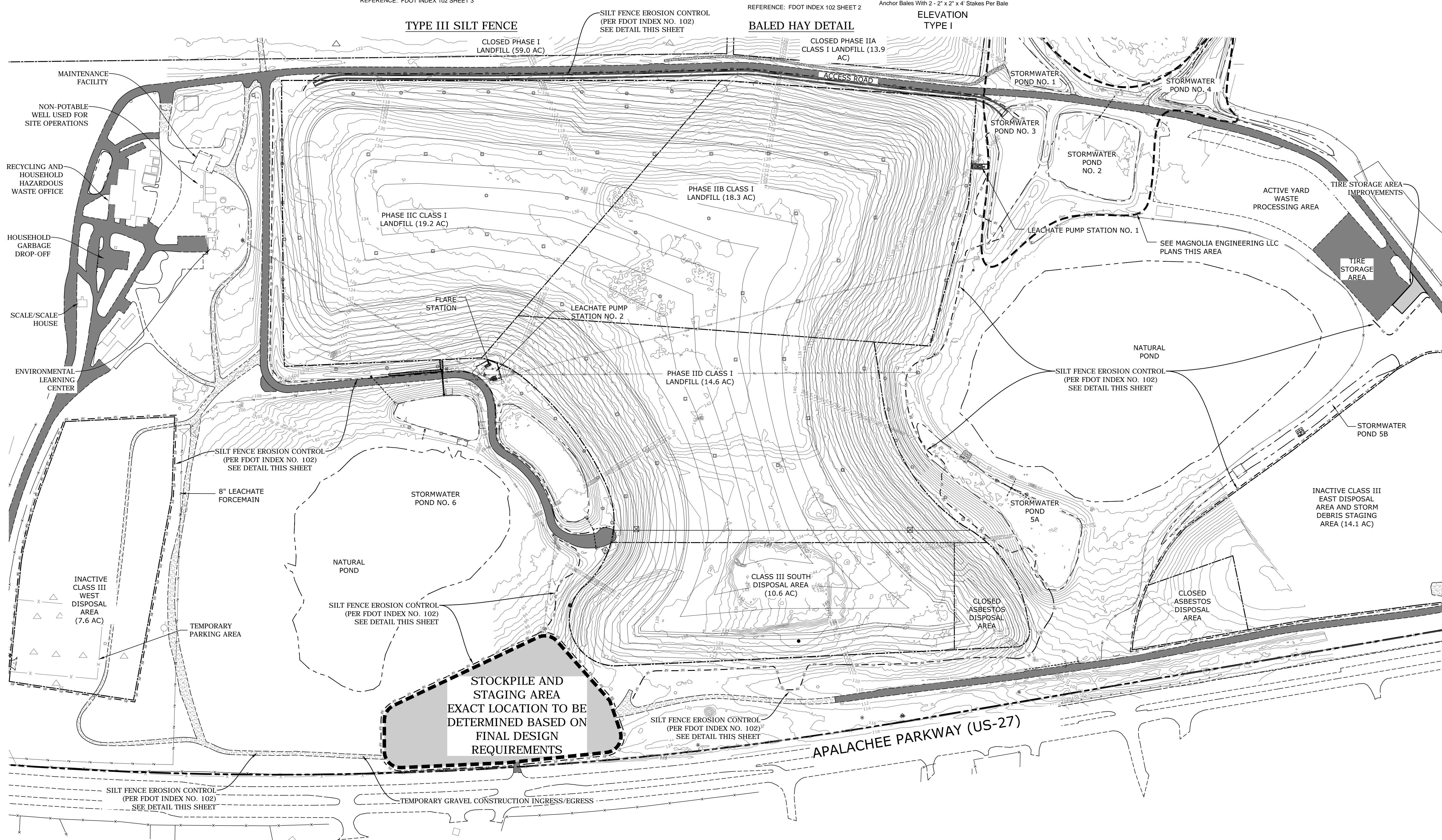


**BALED HAY DETAIL**

REFERENCE: FDOT INDEX 102 SHEET 2

**ELEVATION TYPE I**

Anchor Bales With 2 - 2\"/>



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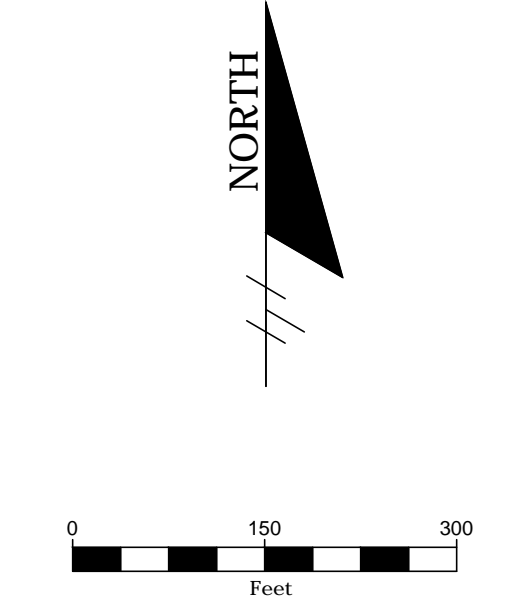
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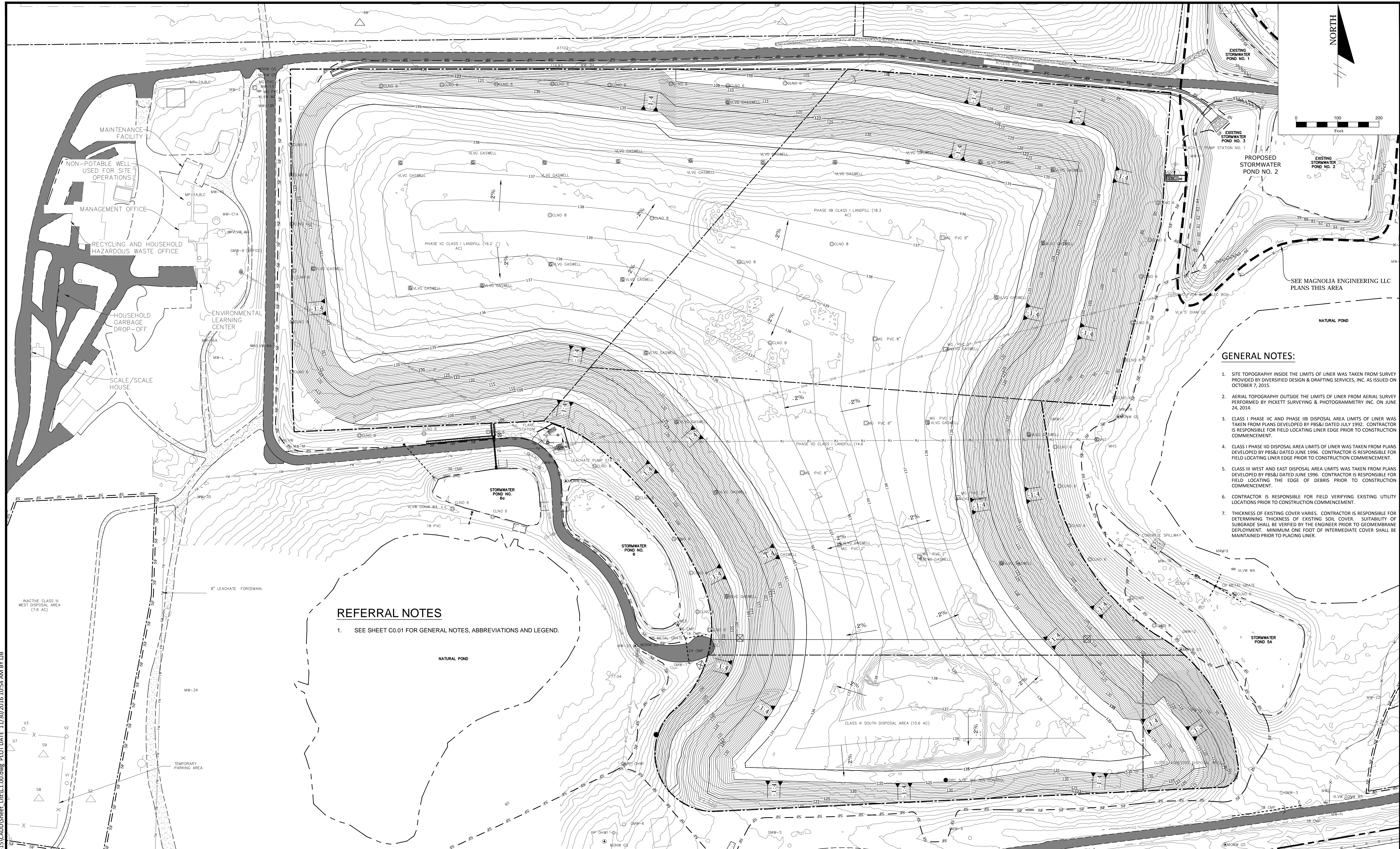
PROJECT TITLE:  
**LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE**  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
**EROSION AND SEDIMENTATION CONTROL  
PLAN**

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C0.50





- GENERAL NOTES:**
1. SITE TOPOGRAPHY INSIDE THE LIMITS OF LINER WAS TAKEN FROM SURVEY PROVIDED BY DIVERSIFIED DESIGN & DRAFTING SERVICES, INC. AS ISSUED ON OCTOBER 7, 2015.
  2. AERIAL TOPOGRAPHY OUTSIDE THE LIMITS OF LINER FROM AERIAL SURVEY PERFORMED BY PICKETT SURVEYING & PHOTOGRAMMETRY INC. ON JUNE 24, 2014.
  3. CLASS I PHASE IIC AND PHASE IIB DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PHS&J DATED JULY 1992. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.
  4. CLASS I PHASE IID DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PHS&J DATED JUNE 1996. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.
  5. CLASS III WEST AND EAST DISPOSAL AREA LIMITS WAS TAKEN FROM PLANS DEVELOPED BY PHS&J DATED JUNE 1996. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE EDGE OF DEBRIS PRIOR TO CONSTRUCTION COMMENCEMENT.
  6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
  7. THICKNESS OF EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. SUITABILITY OF SUBGRADE SHALL BE VERIFIED BY THE ENGINEER PRIOR TO GEOMEMBRANE DEPLOYMENT. MINIMUM ONE FOOT OF INTERMEDIATE COVER SHALL BE MAINTAINED PRIOR TO PLACING LINER.

**REFERRAL NOTES**


1. SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.

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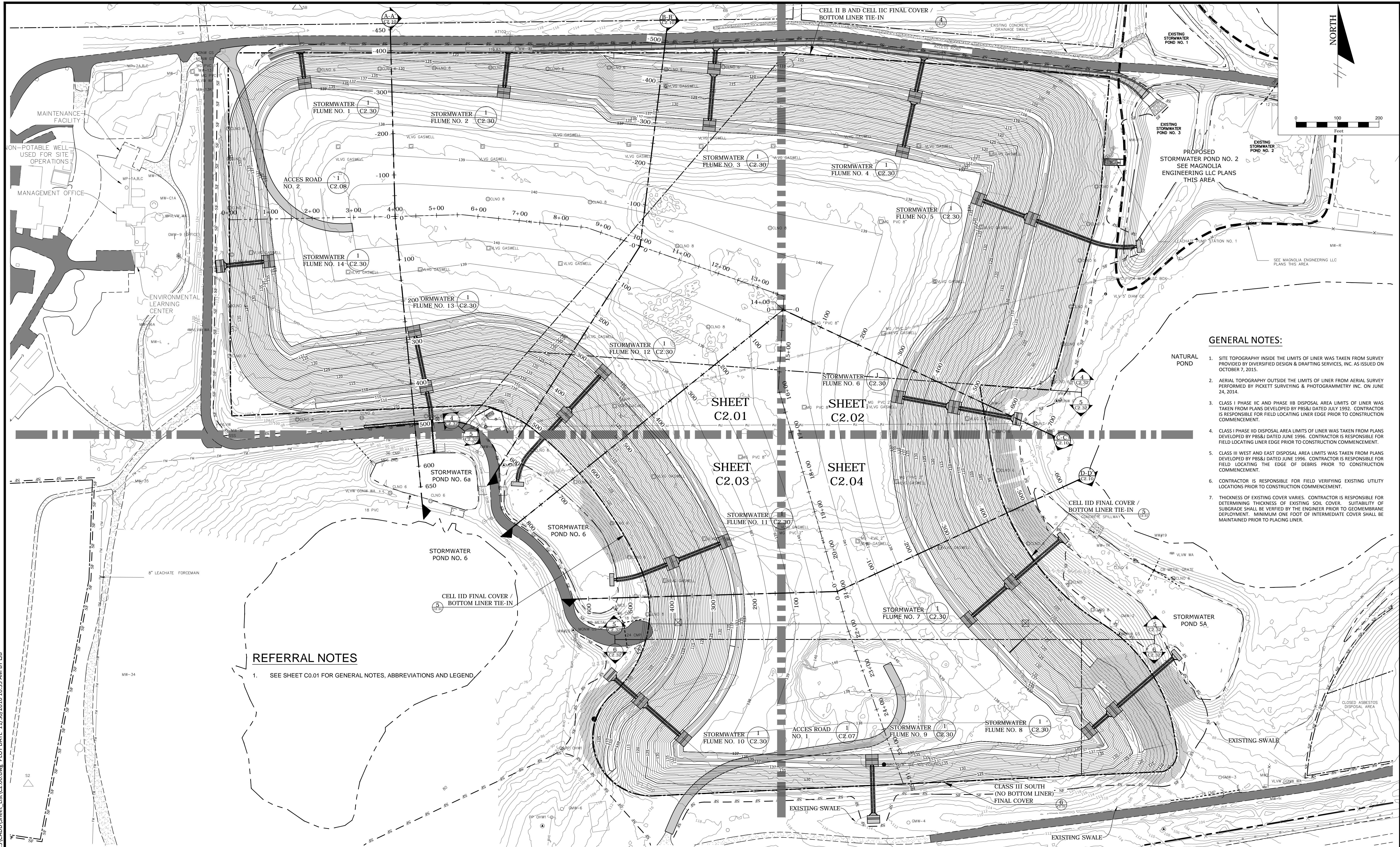


**PROJECT TITLE:**  
 LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
 CLASS I AND CLASS III LANDFILL CLOSURE  
 TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

**SHEET TITLE:**  
 SUBGRADE GRADING PLAN

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C1.00



- GENERAL NOTES:**
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**REFERRAL NOTES**


1. SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND

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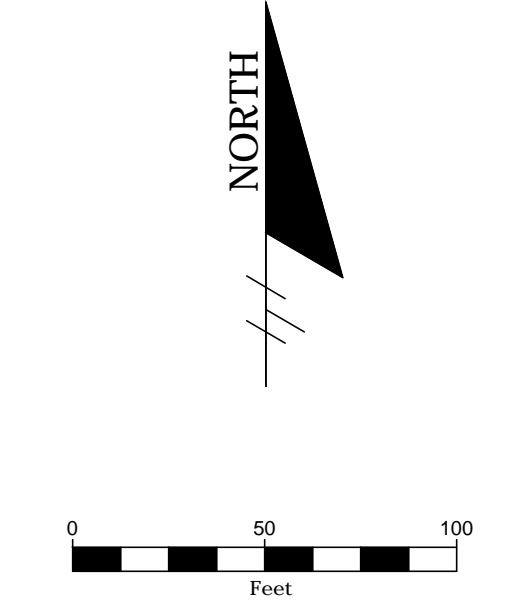
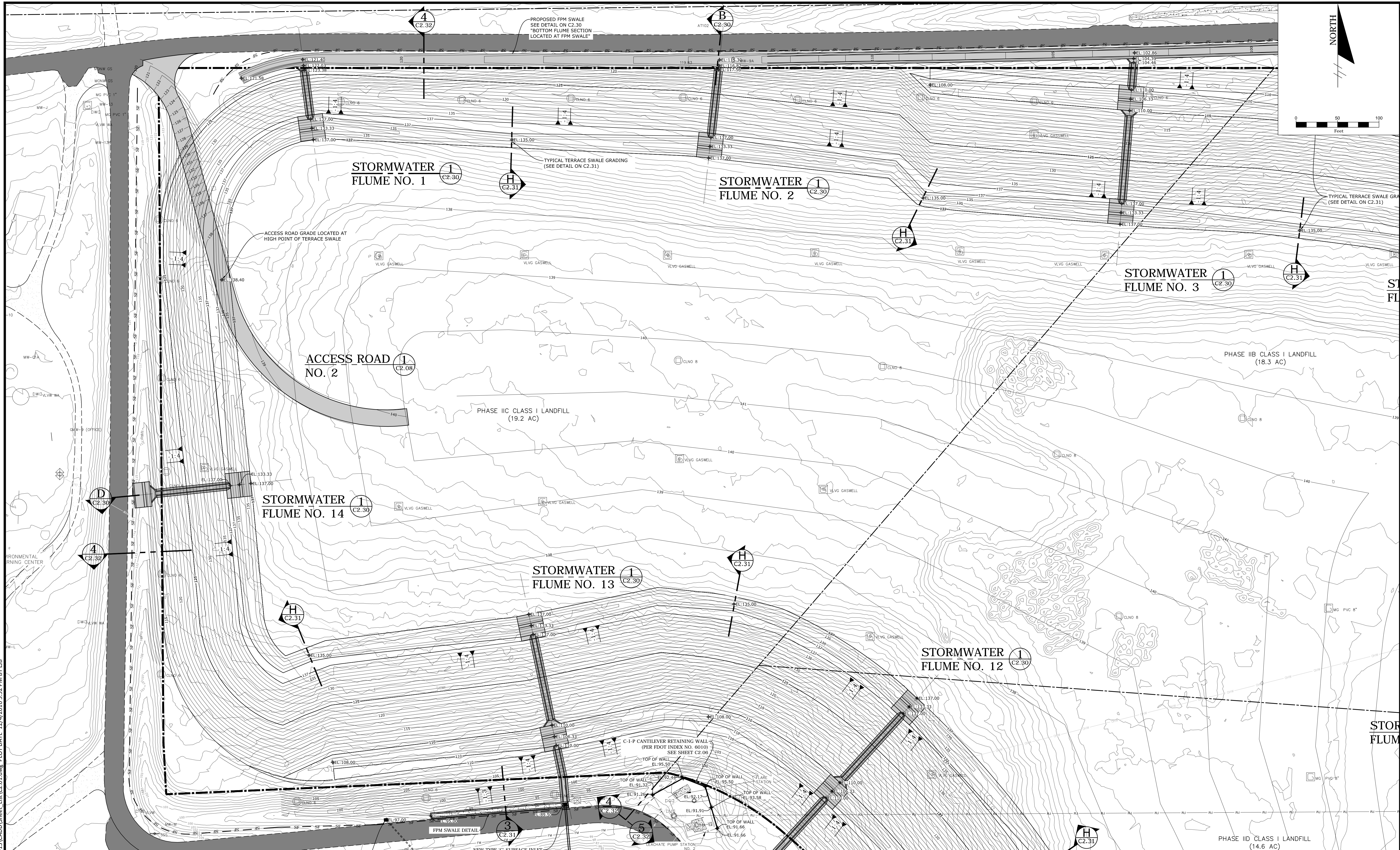
**PROJECT TITLE:**  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

**SHEET TITLE:**  
FINAL CLOSURE GRADING OVERALL PLAN

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C2.00






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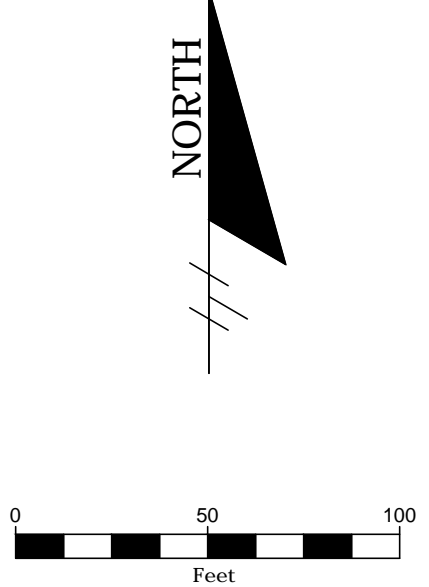
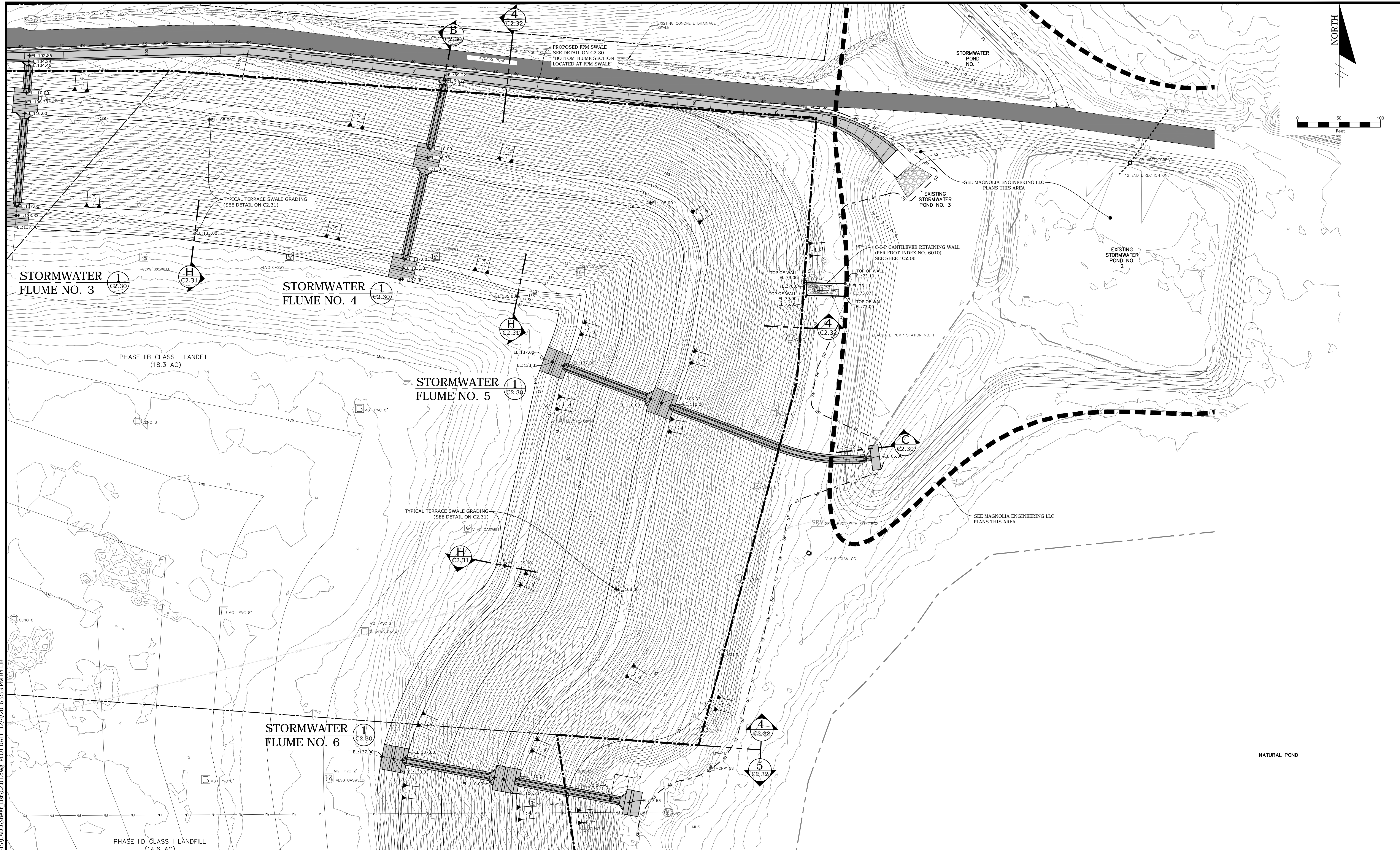
**LEON COUNTY**

PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
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FL PE NO. 74652	APPROVED BY	LIB

SHEET TITLE:  
**DETAILED GRADING PLAN**

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
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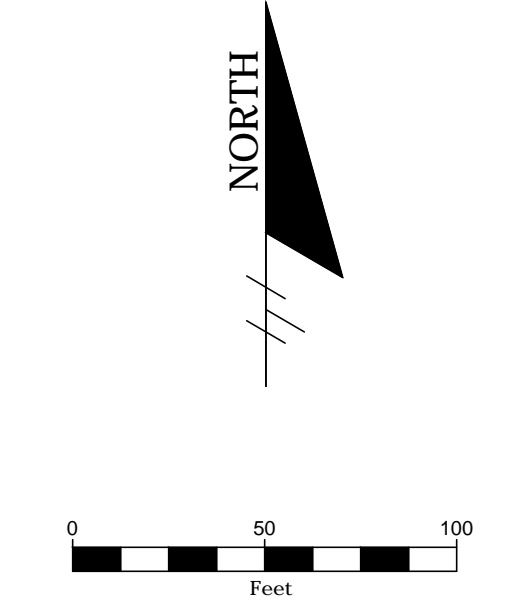
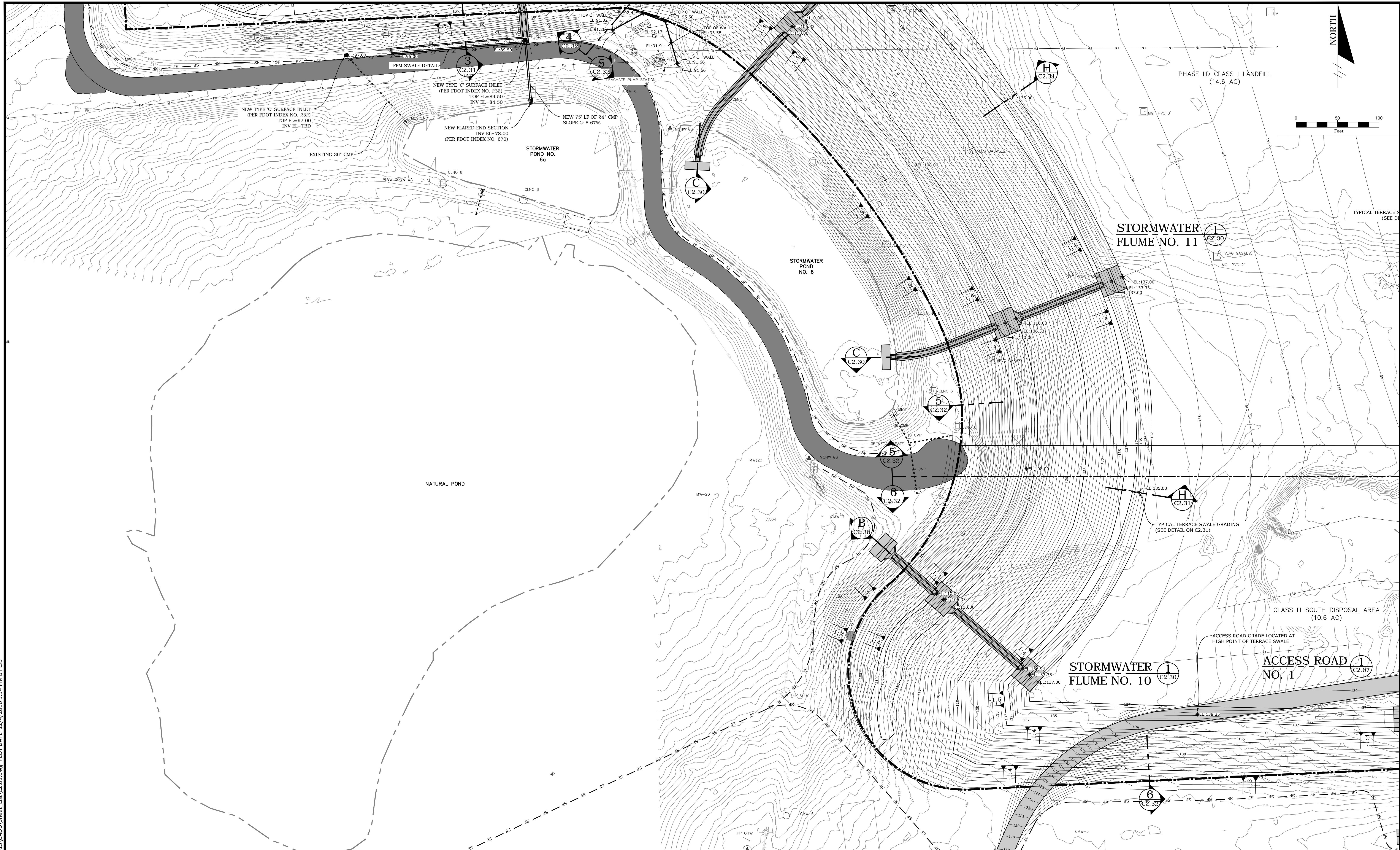
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**PROJECT TITLE:**  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

**SHEET TITLE:**  
**DETAILED GRADING PLAN**

PROJECT NO.: 07000-173-15
SCALE: AS SHOWN
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DRAWING: C2.02



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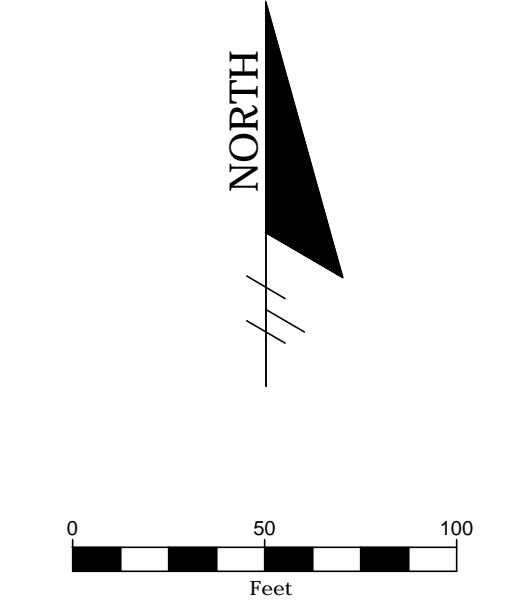
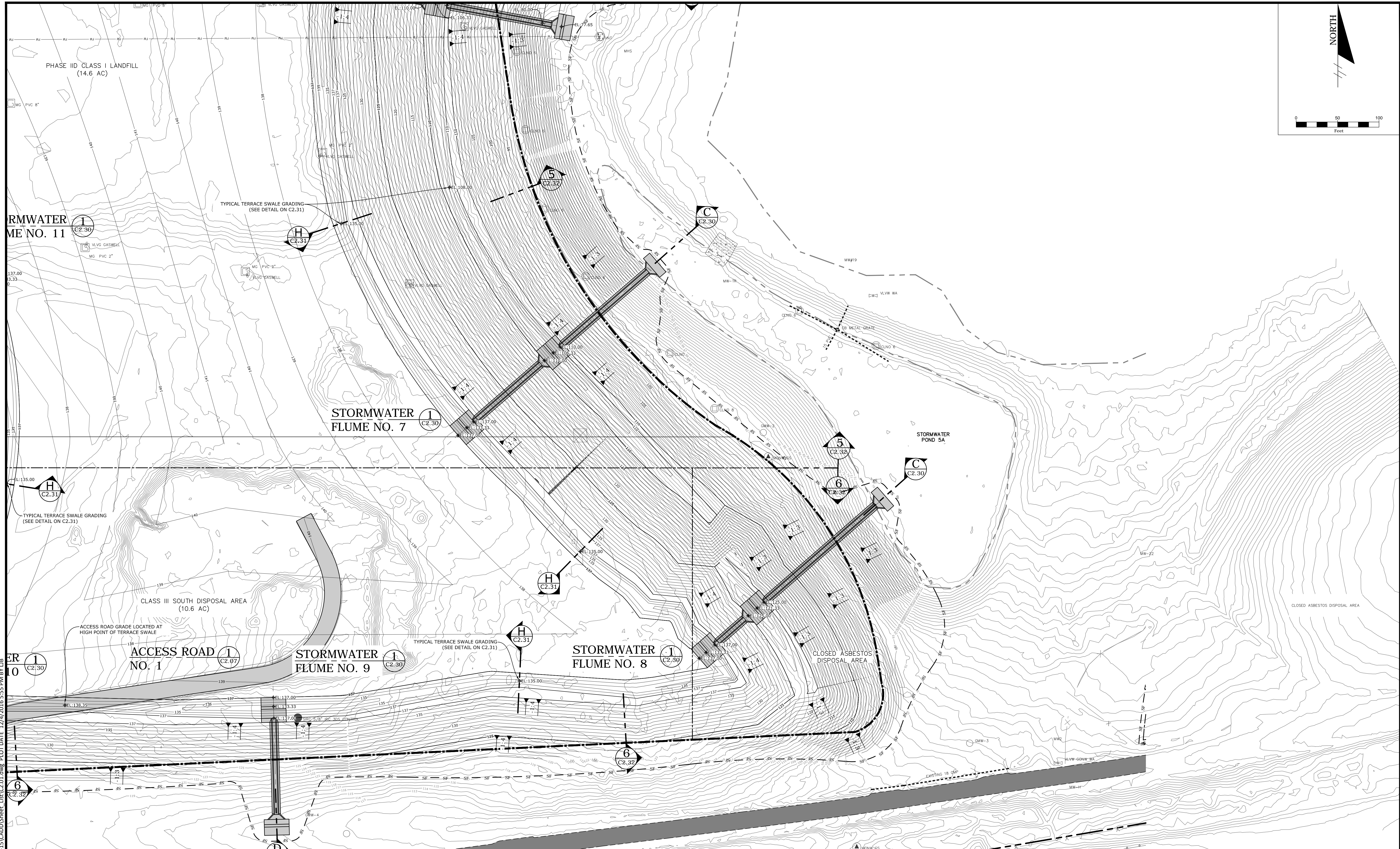
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**PROJECT TITLE:**  
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CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
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	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

**SHEET TITLE:**  
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PROJECT NO.:	07000-173-15
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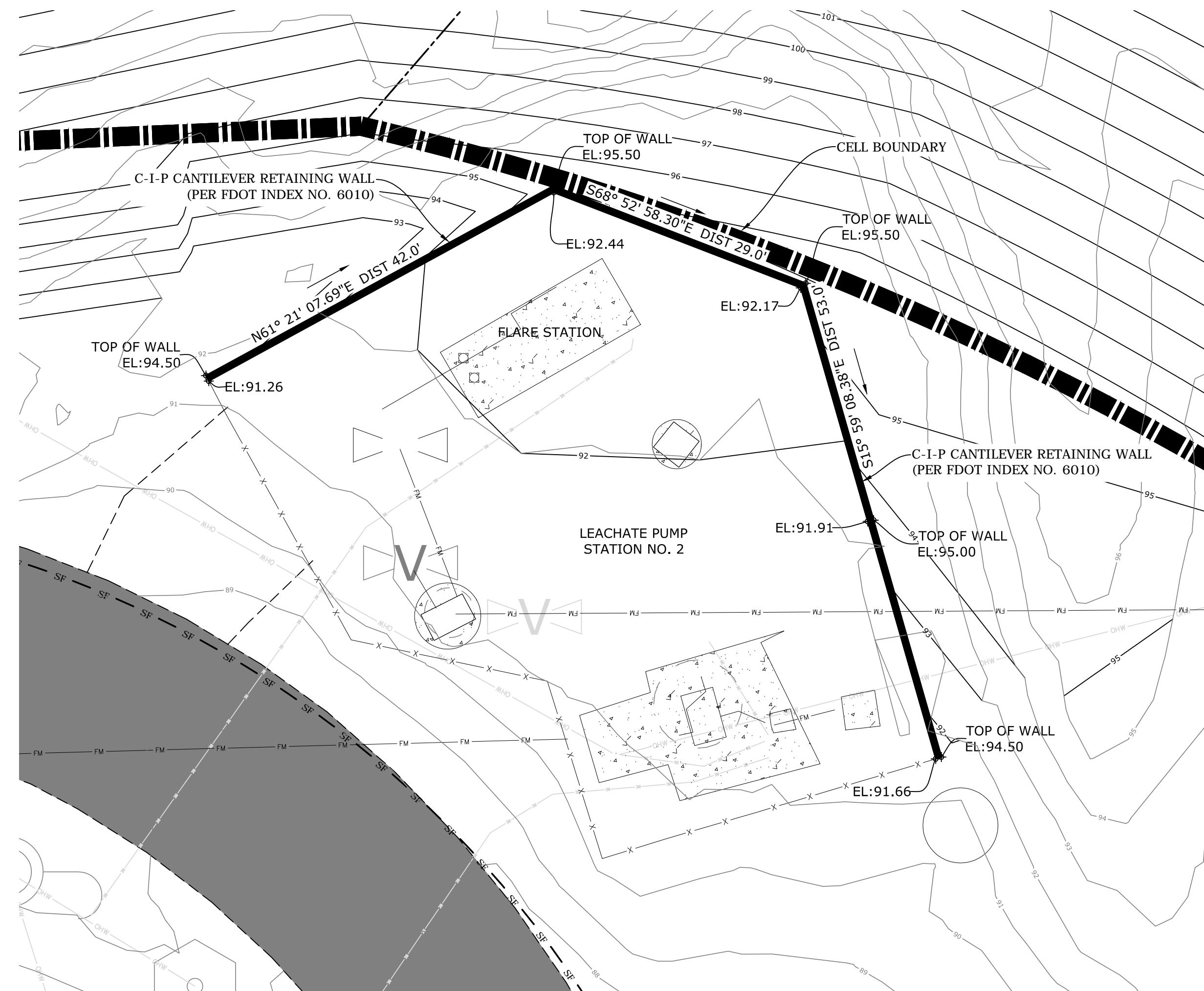
**LEON COUNTY**

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LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

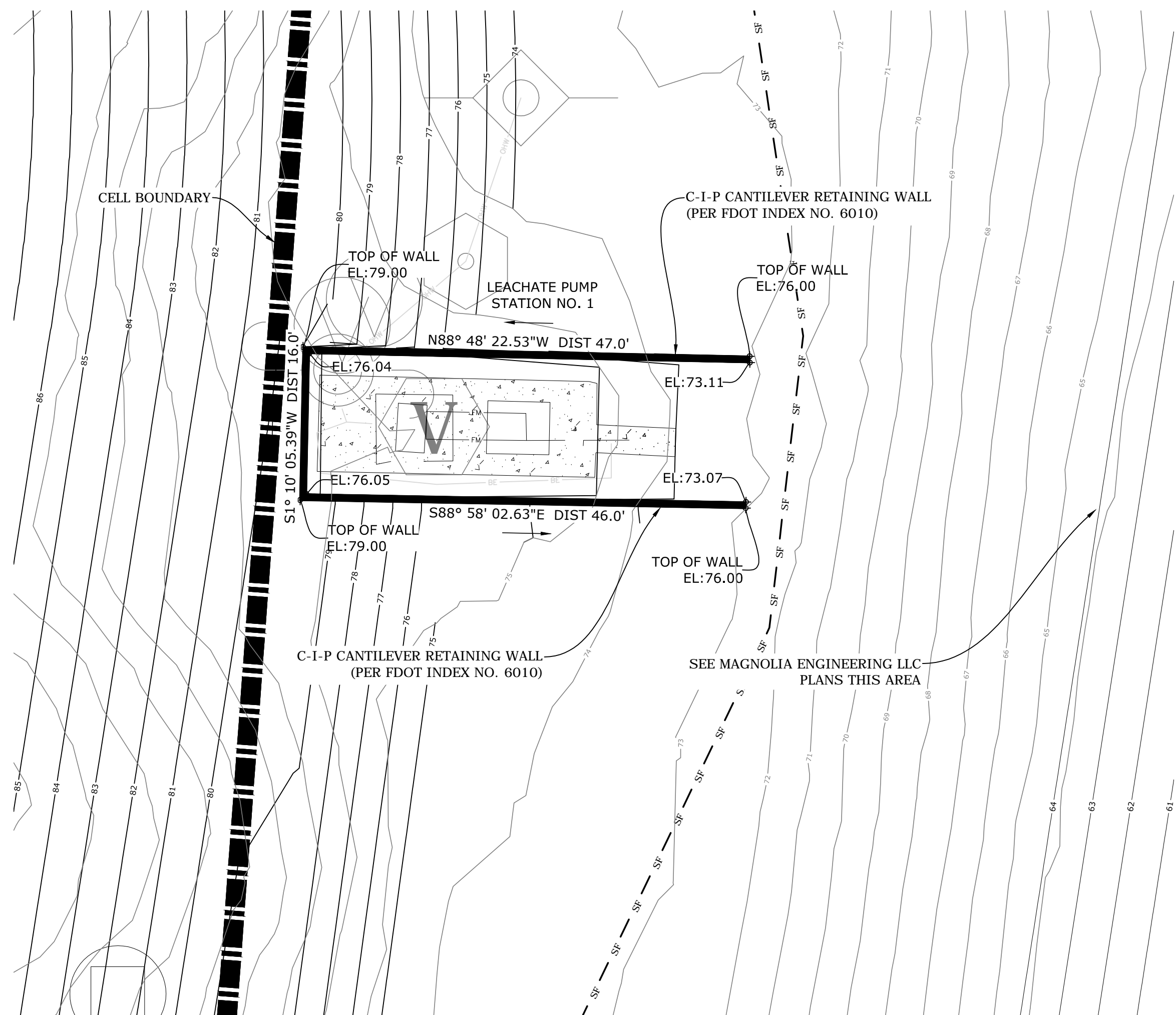
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	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

SHEET TITLE:  
**DETAILED GRADING PLAN**

PROJECT NO.:	07000-173-15
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LEACHATE PUMP STATION NO. 2



LEACHATE PUMP STATION NO. 1

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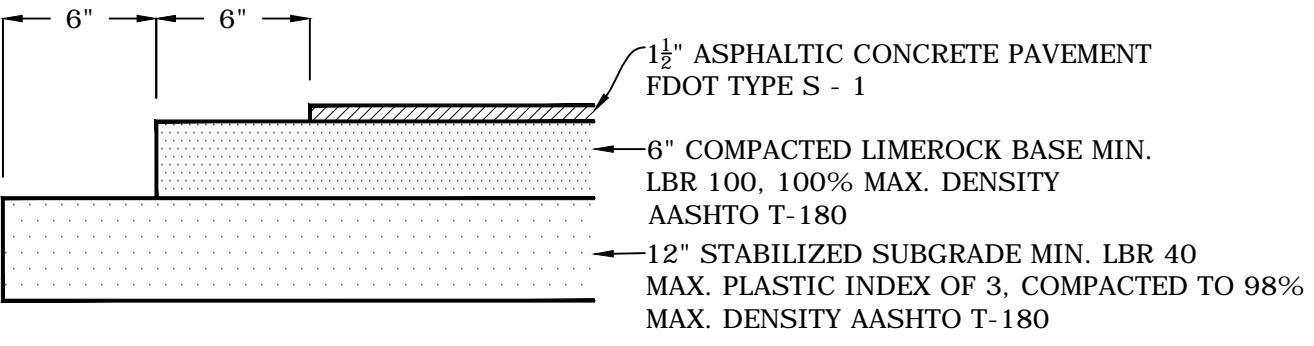
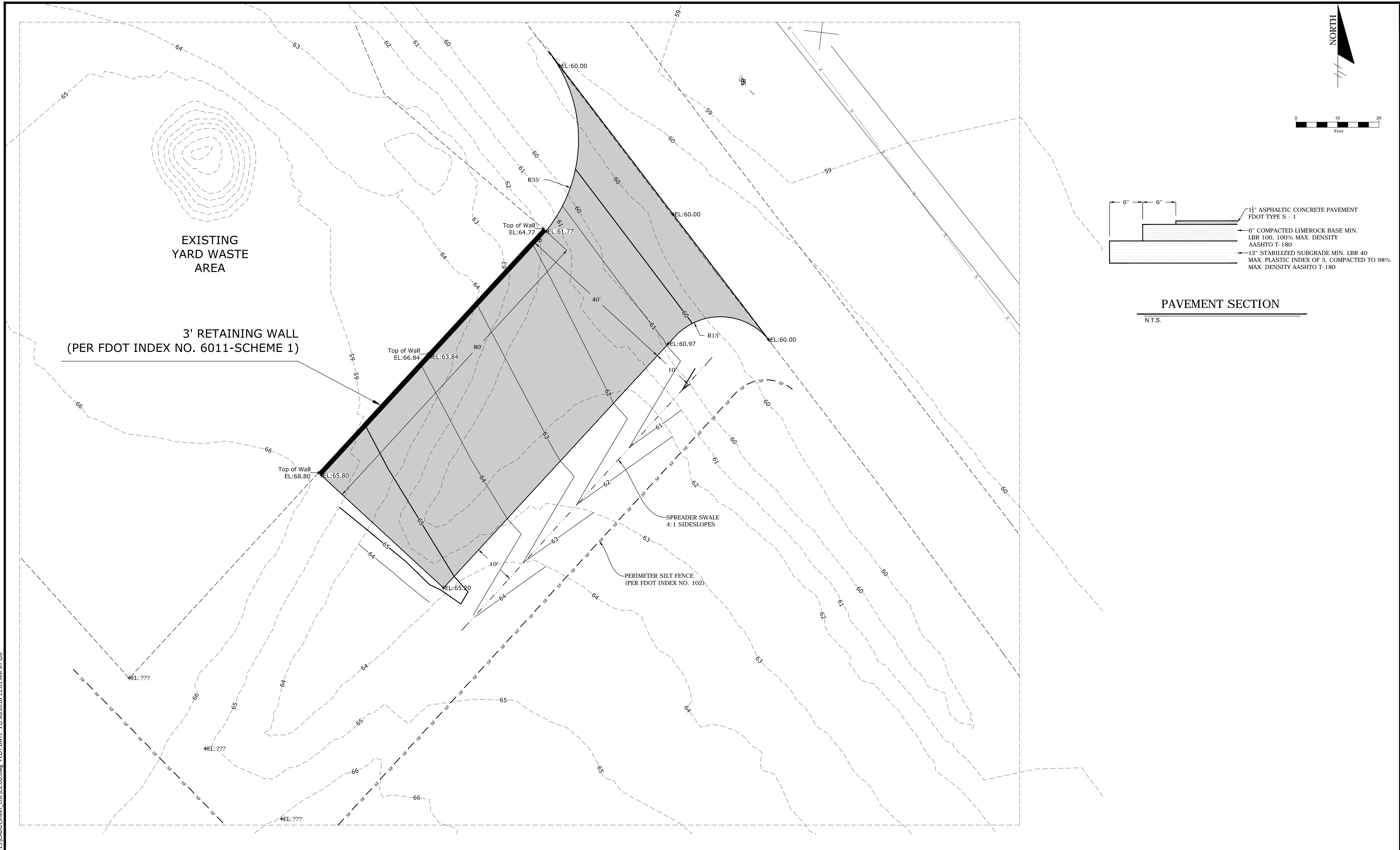


PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

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	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
LEACHATE PUMP STATIONS NO. 1 AND NO. 2  
DETAILED GRADING PLAN

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
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**PAVEMENT SECTION**

N.T.S.


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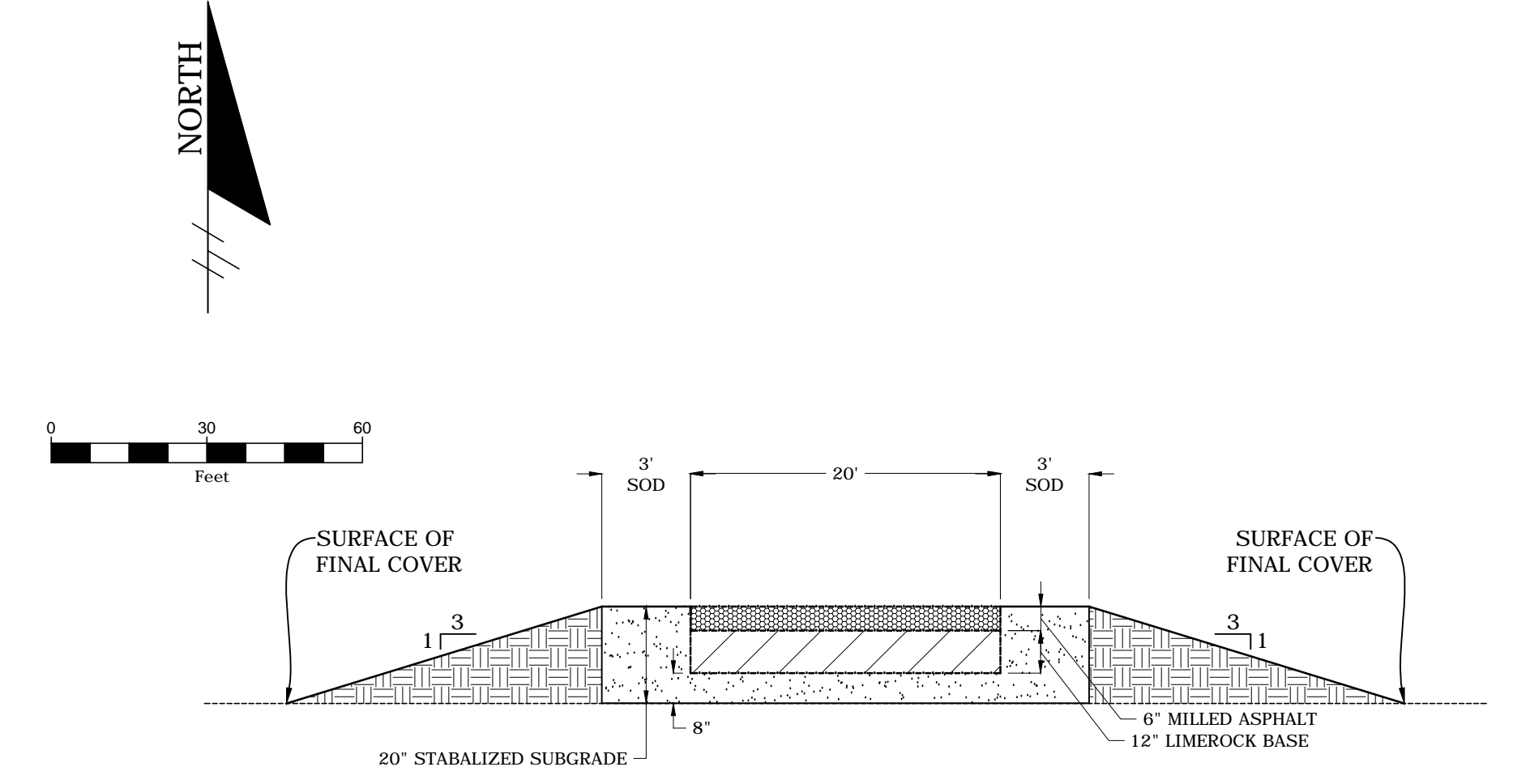
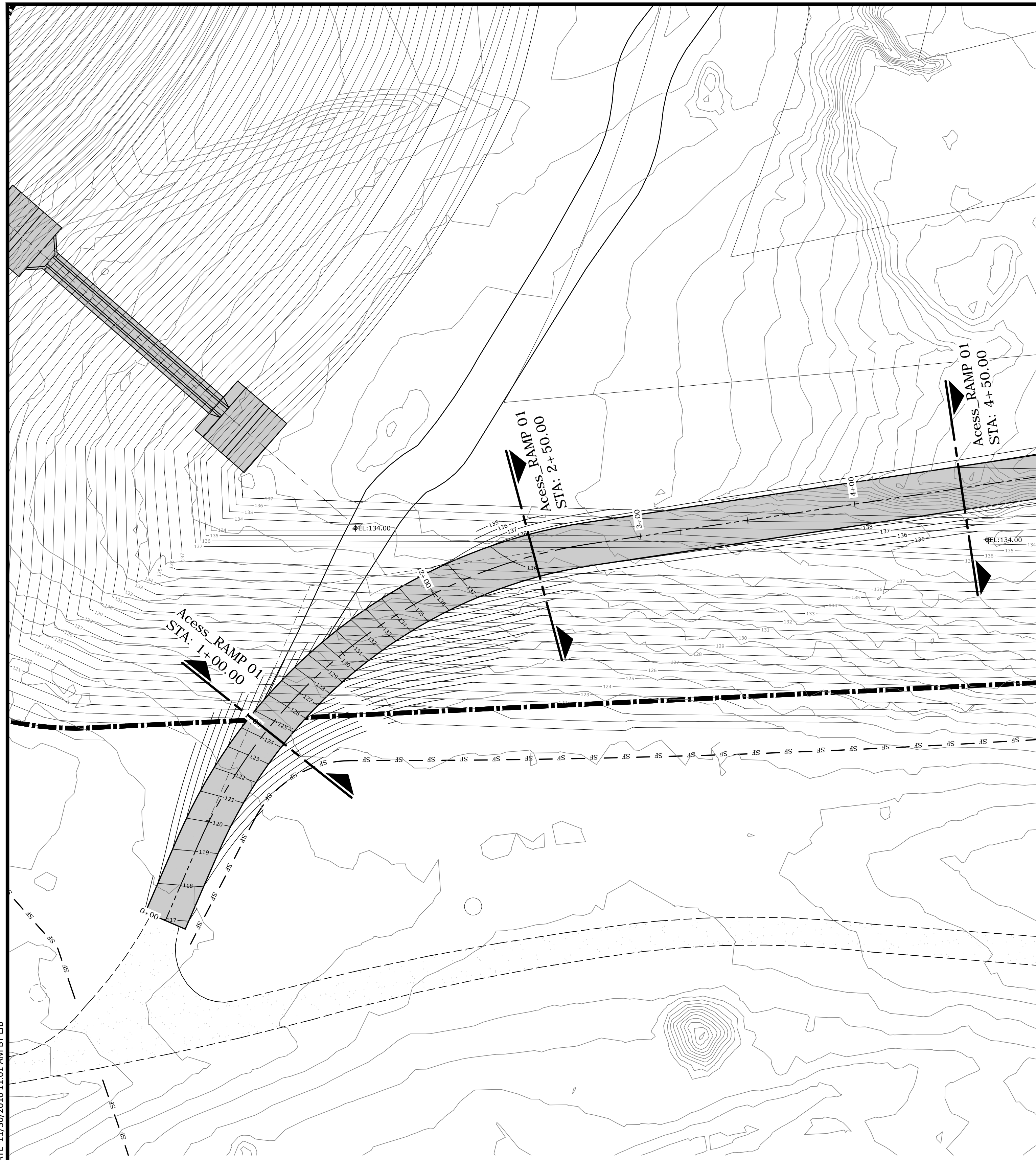
**LEON COUNTY**

PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

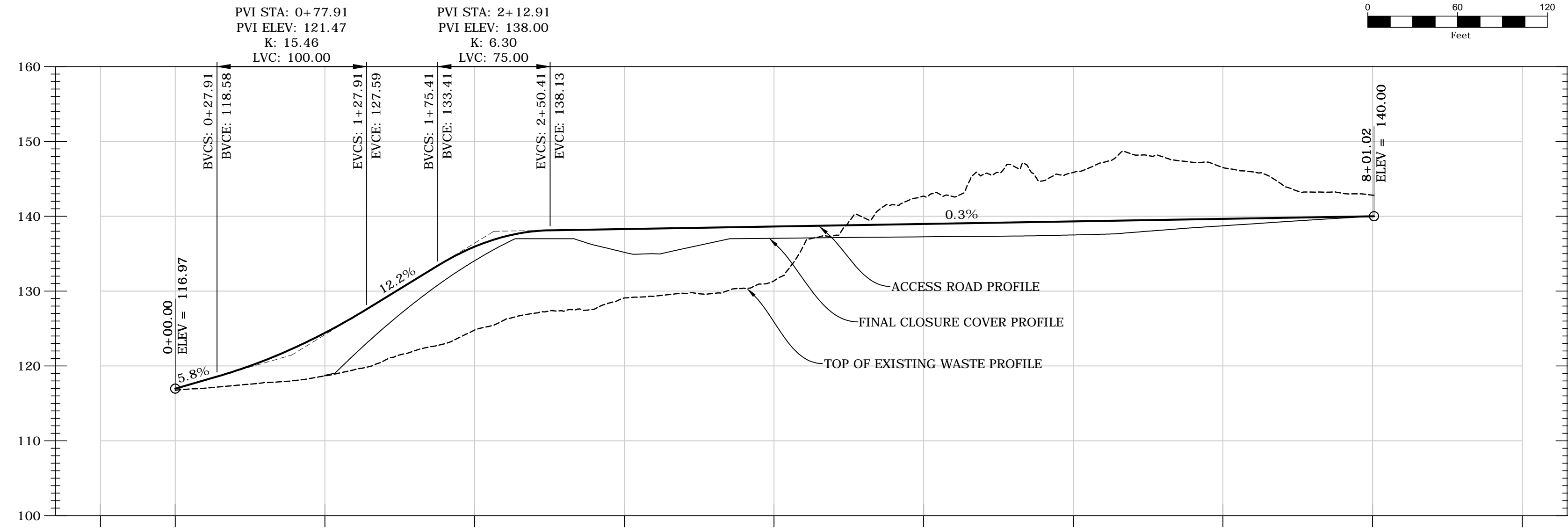
LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
**YARD WASTE AREA DETAILED GRADING PLAN**

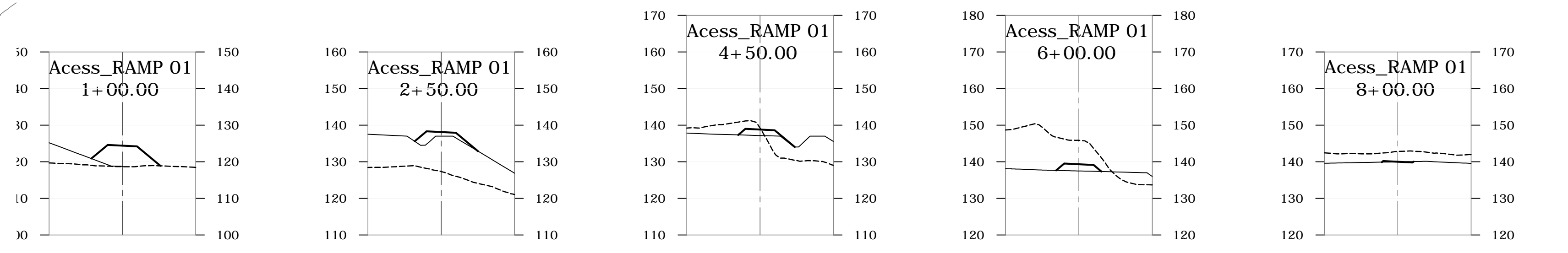
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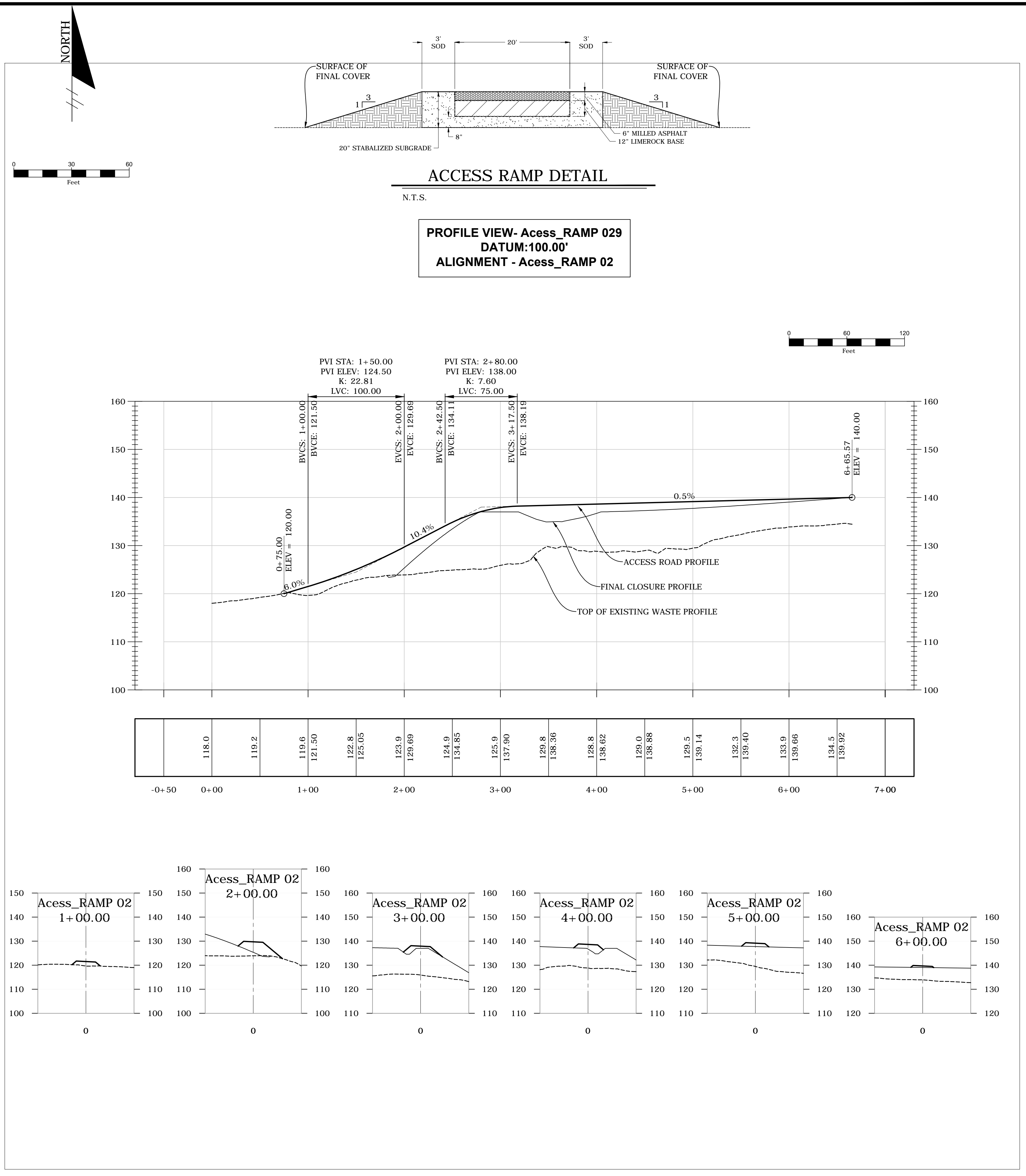
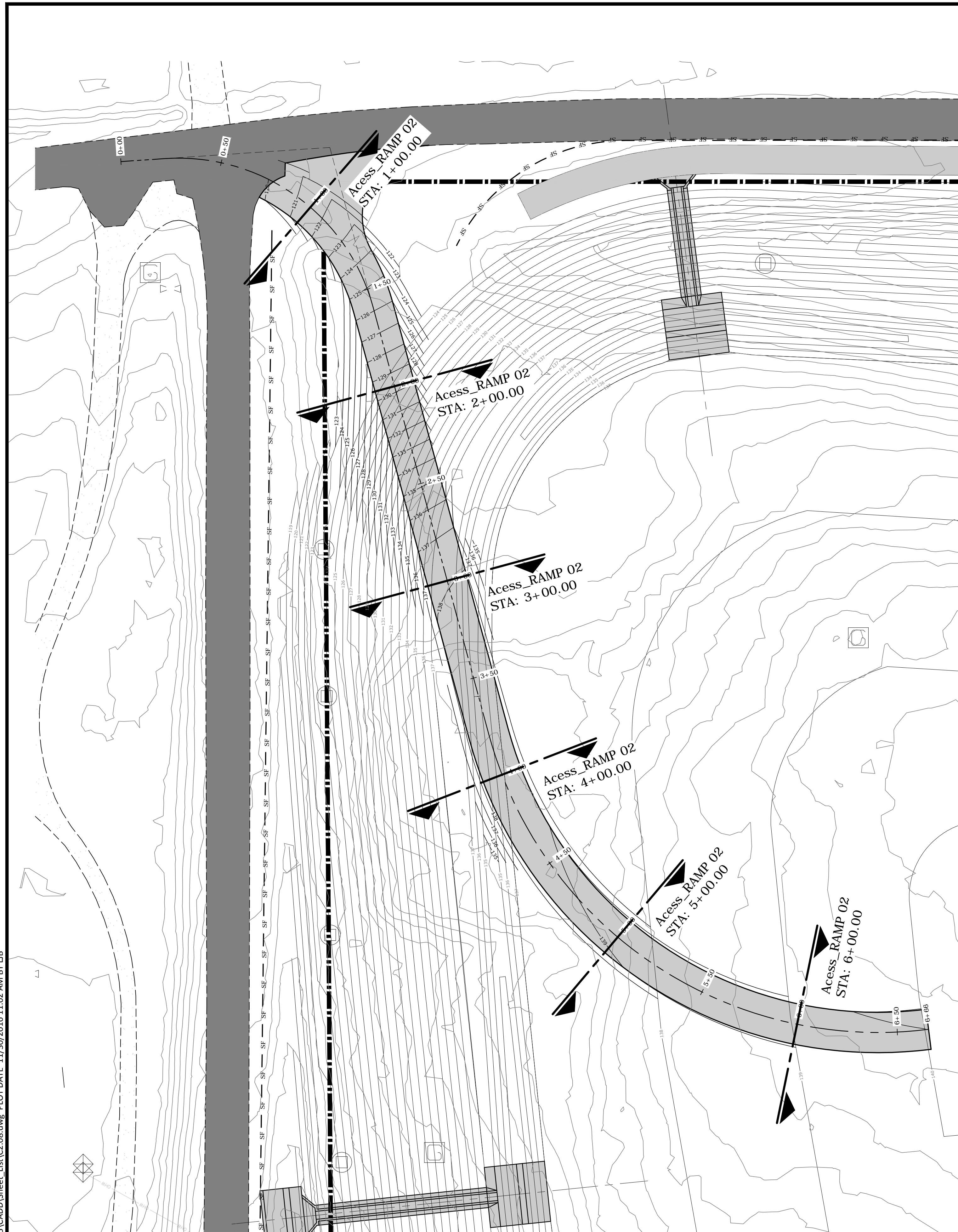
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 TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER  
 DESIGNED BY: LJB  
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 APPROVED BY: LJB  
 FL PE NO. 74652

**SHEET TITLE:**  
 ACCESS RAMP NO. 1 PLAN, PROFILE AND SECTIONS

**PROJECT NO.:**  
 07000-173-15  
**SCALE:**  
 AS SHOWN  
**DATE:**  
 NOVEMBER 2016  
**DRAWING:**  
 C2.07



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NO.	DATE	REVISION DESCRIPTION	BY

**Locklear & Associates**

4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066

**LEON COUNTY**

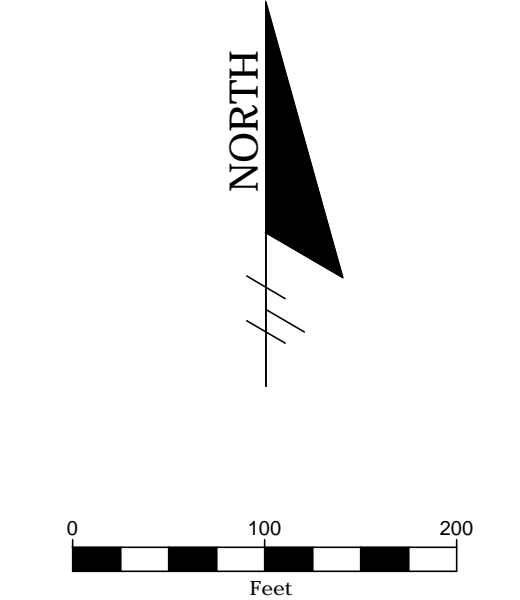
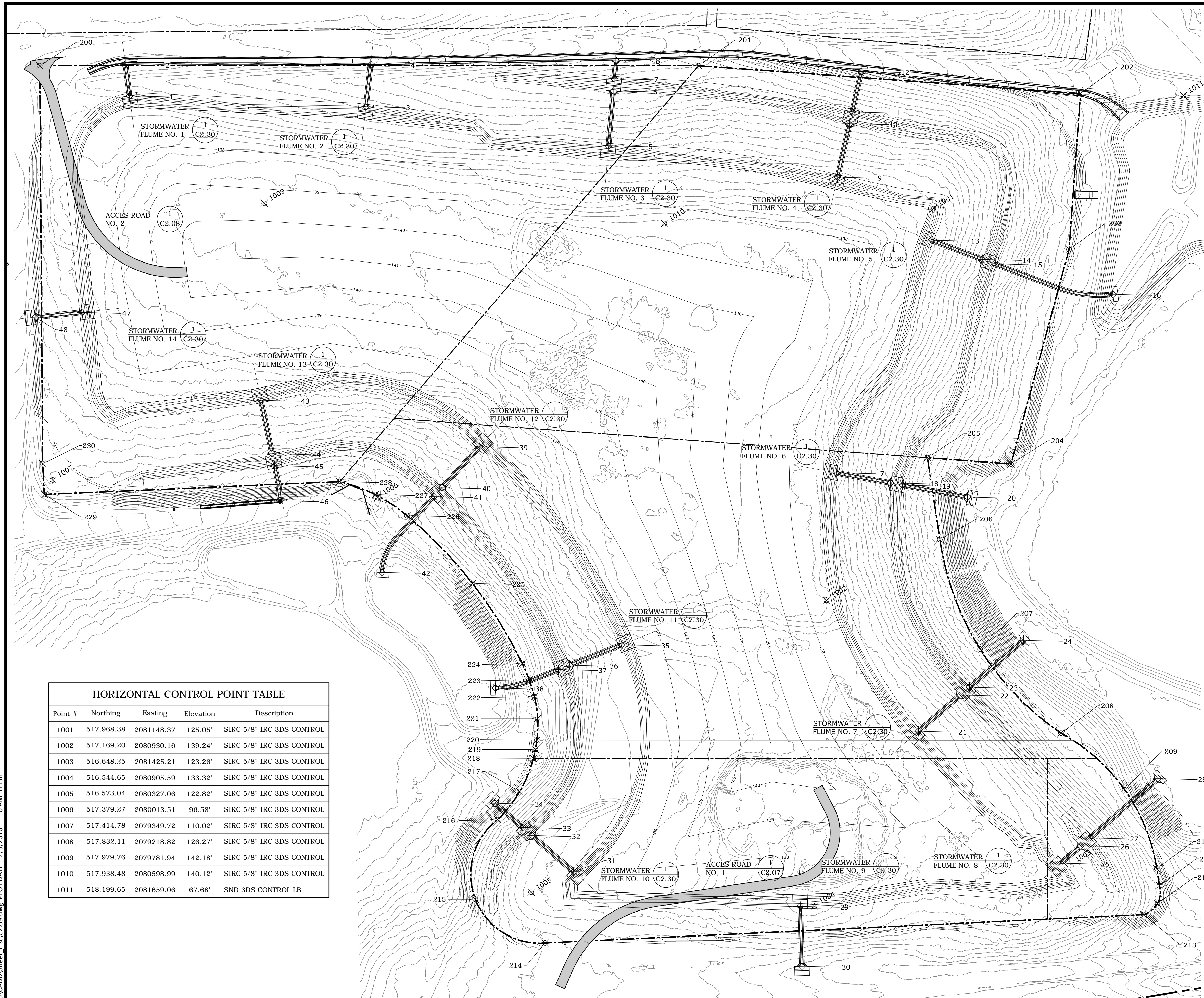
PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER  
DESIGNED BY: LIB  
DRAWN BY: MAF  
CHECKED BY: JDL  
APPROVED BY: LIB  
FL PE NO. 74652

SHEET TITLE:  
ACCESS RAMP NO. 2 PLAN, PROFILE AND SECTIONS

PROJECT NO.: 07000-173-15  
SCALE: AS SHOWN  
DATE: NOVEMBER 2016  
DRAWING: C2.08





STORMWATER FLUME LOCATION POINT TABLE			
Point #	Northing	Easting	Final Closure Grade
1	518,198.73	2079506.91	137.00'
2	518,263.41	2079498.40	122.03'
3	518,176.71	2079989.66	137.00'
4	518,263.16	2079999.23	116.82'
5	518,096.93	2080485.08	137.00'
6	518,209.04	2080494.58	110.00'
7	518,233.95	2080496.69	110.00'
8	518,271.70	2080499.88	104.38'
9	518,033.15	2080952.77	137.00'
10	518,141.93	2080977.19	110.00'
11	518,166.32	2080982.67	110.00'
12	518,248.66	2081001.26	90.73'
13	517,904.44	2081144.04	137.00'
14	517,864.84	2081249.14	110.00'
15	517,856.02	2081272.54	110.00'
16	517,793.69	2081515.14	59.00'
17	517,429.29	2080949.98	137.00'
18	517,408.70	2081060.94	110.00'
19	517,404.14	2081085.52	110.00'
20	517,379.58	2081217.91	77.95'
21	516,901.80	2081117.93	137.00'
22	516,975.63	2081203.28	110.00'
23	516,991.98	2081222.19	110.00'
24	517,087.41	2081332.52	71.12'
25	516,632.69	2081409.06	137.00'
26	516,667.71	2081449.37	125.00'
27	516,684.11	2081468.25	125.00'
28	516,805.06	2081607.46	70.57'
29	516,544.11	2080876.67	137.00'
30	516,421.94	2080879.91	113.97'
31	516,614.87	2080413.61	137.00'
32	516,688.82	2080328.61	110.00'
33	516,705.23	2080309.75	110.00'
34	516,754.70	2080252.91	91.92'
35	517,078.08	2080510.81	137.00'
36	517,036.72	2080405.82	110.00'
37	517,027.56	2080382.56	110.00'
38	516,990.23	2080254.07	78.46'
39	517,482.45	2080221.22	137.00'
40	517,399.07	2080145.17	110.00'
41	517,380.60	2080128.33	110.00'
42	517,225.90	2080021.75	78.00'
43	517,577.61	2079775.14	137.00'
44	517,468.35	2079798.00	110.00'
45	517,443.88	2079803.12	110.00'
46	517,372.58	2079814.04	89.63'
47	517,757.05	2079410.03	137.00'
48	517,747.07	2079314.05	114.51'

CELL BOUNDARY LOCATION POINT TABLE		
Point #	Northing	Easting
200	518,260.46	2079323.53
201	518,260.46	2080668.93
202	518,203.70	2081449.05
203	517,885.22	2081425.51
204	517,447.44	2081307.09
205	517,460.06	2081136.33
206	517,293.08	2081161.80
207	517,069.46	2081243.97
208	516,897.80	2081409.17
209	516,782.21	2081539.25
210	516,621.00	2081604.75
211	516,586.29	2081610.27
212	516,550.25	2081606.25
213	516,527.43	2081578.07
214	516,469.39	2080355.73
215	516,558.95	2080213.07
216	516,721.20	2080258.32
217	516,778.71	2080303.55
218	516,846.32	2080331.52
219	516,864.90	2080335.67
220	516,883.72	2080338.49
221	516,928.19	2080340.50
222	516,972.19	2080333.78
223	517,006.76	2080323.07
224	517,040.07	2080308.92
225	517,203.46	2080207.09
226	517,342.11	2080073.54
227	517,384.85	2080008.75
228	517,411.26	2079935.78
229	517,385.16	2079332.74
230	517,447.70	2079329.45

HORIZONTAL CONTROL POINT TABLE				
Point #	Northing	Easting	Elevation	Description
1001	517,968.38	2081148.37	125.05'	SIRC 5/8" IRC 3DS CONTROL
1002	517,169.20	2080930.16	139.24'	SIRC 5/8" IRC 3DS CONTROL
1003	516,648.25	2081425.21	123.26'	SIRC 5/8" IRC 3DS CONTROL
1004	516,544.65	2080905.59	133.32'	SIRC 5/8" IRC 3DS CONTROL
1005	516,573.04	2080327.06	122.82'	SIRC 5/8" IRC 3DS CONTROL
1006	517,379.27	2080013.51	96.58'	SIRC 5/8" IRC 3DS CONTROL
1007	517,414.78	2079349.72	110.02'	SIRC 5/8" IRC 3DS CONTROL
1008	517,832.11	2079218.82	126.27'	SIRC 5/8" IRC 3DS CONTROL
1009	517,979.76	2079781.94	142.18'	SIRC 5/8" IRC 3DS CONTROL
1010	517,938.48	2080598.99	140.12'	SIRC 5/8" IRC 3DS CONTROL
1011	518,199.65	2081659.06	67.68'	SND 3DS CONTROL LB

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NO.	DATE	REVISION DESCRIPTION	BY

**Locklear & Associates**

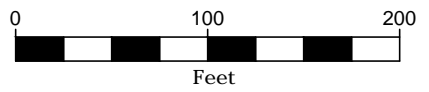
4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066

PROJECT TITLE:  
**LEON COUNTY SOLID WASTE MANAGEMENT FACILITY CLASS I AND CLASS III LANDFILL CLOSURE**  
TALLAHASSEE, LEON COUNTY, FLORIDA

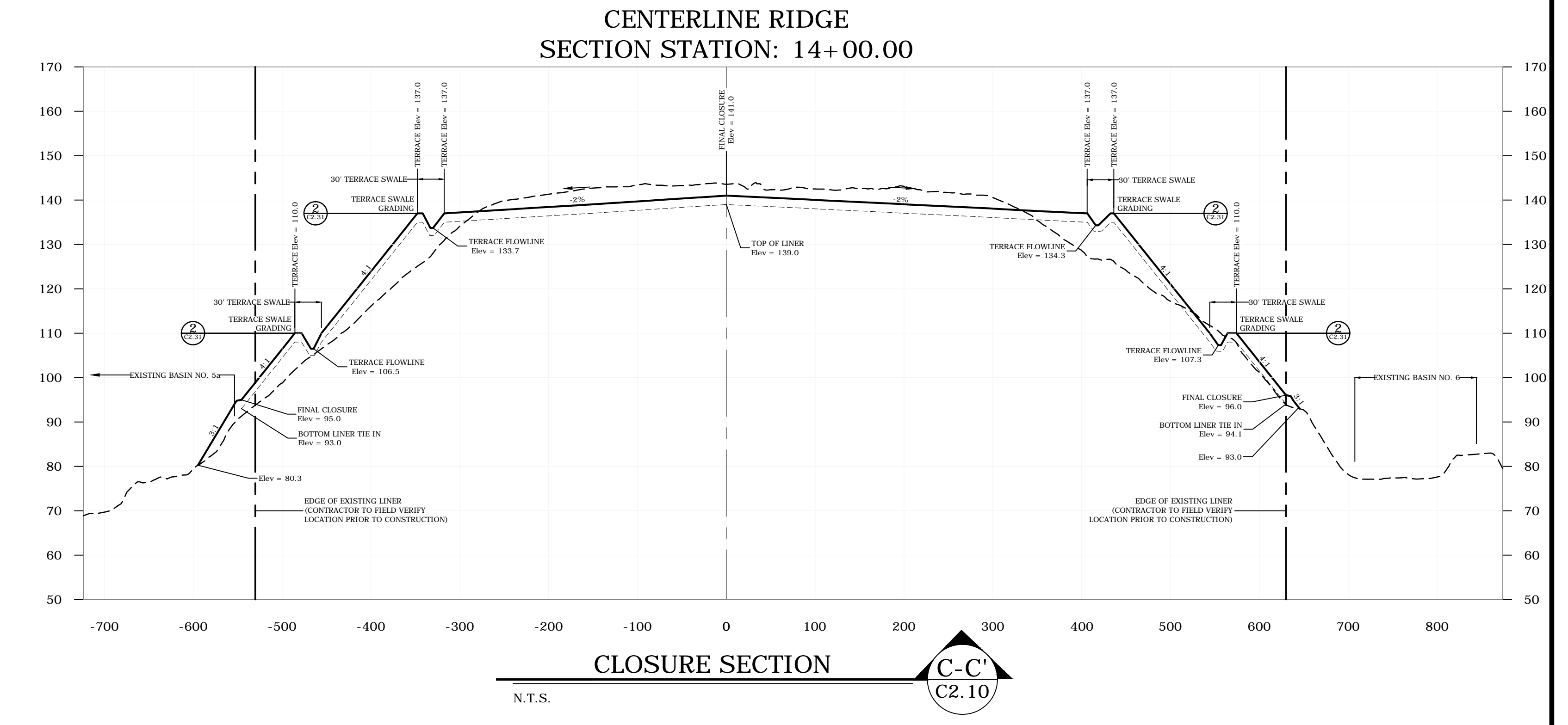
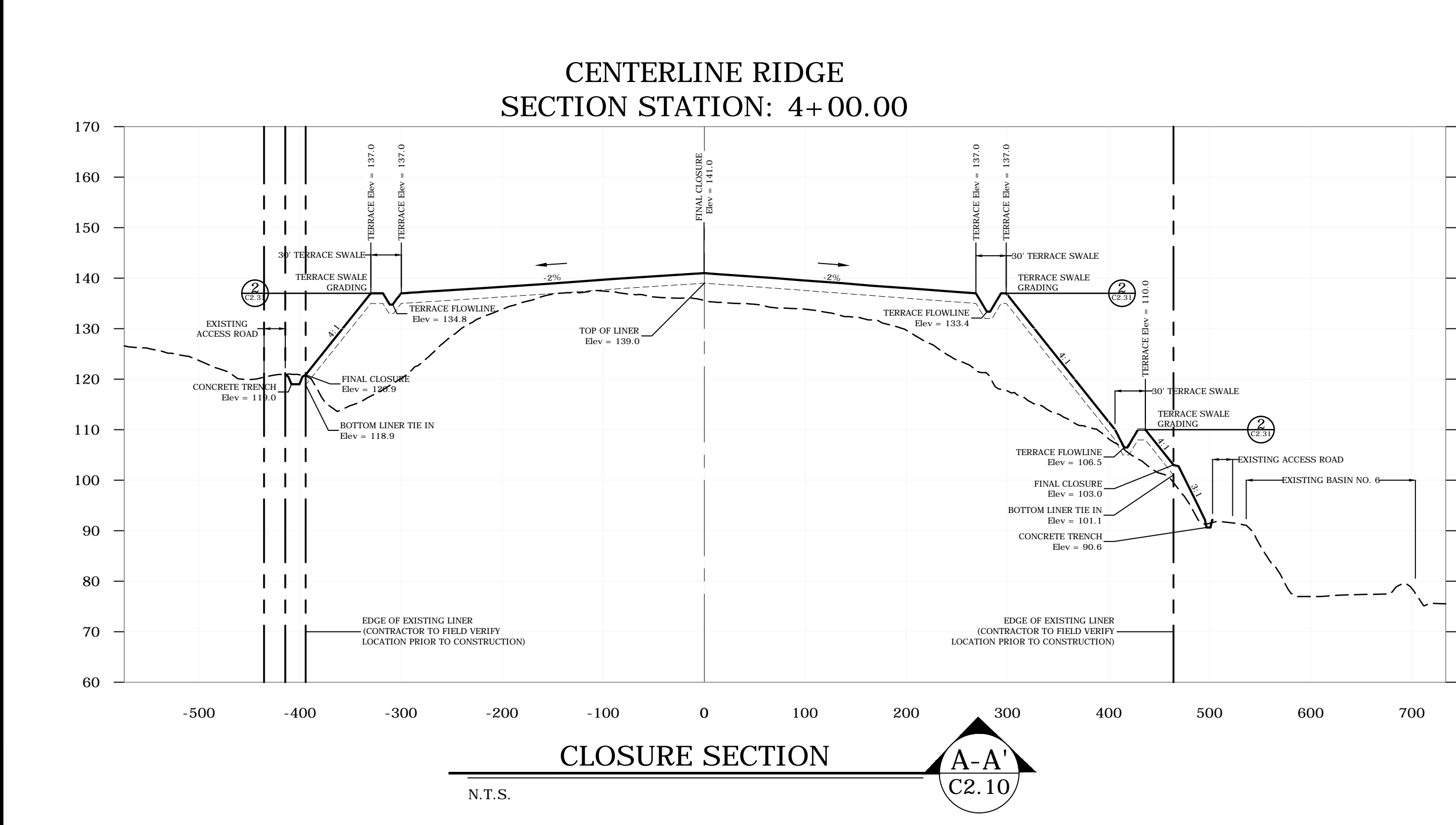
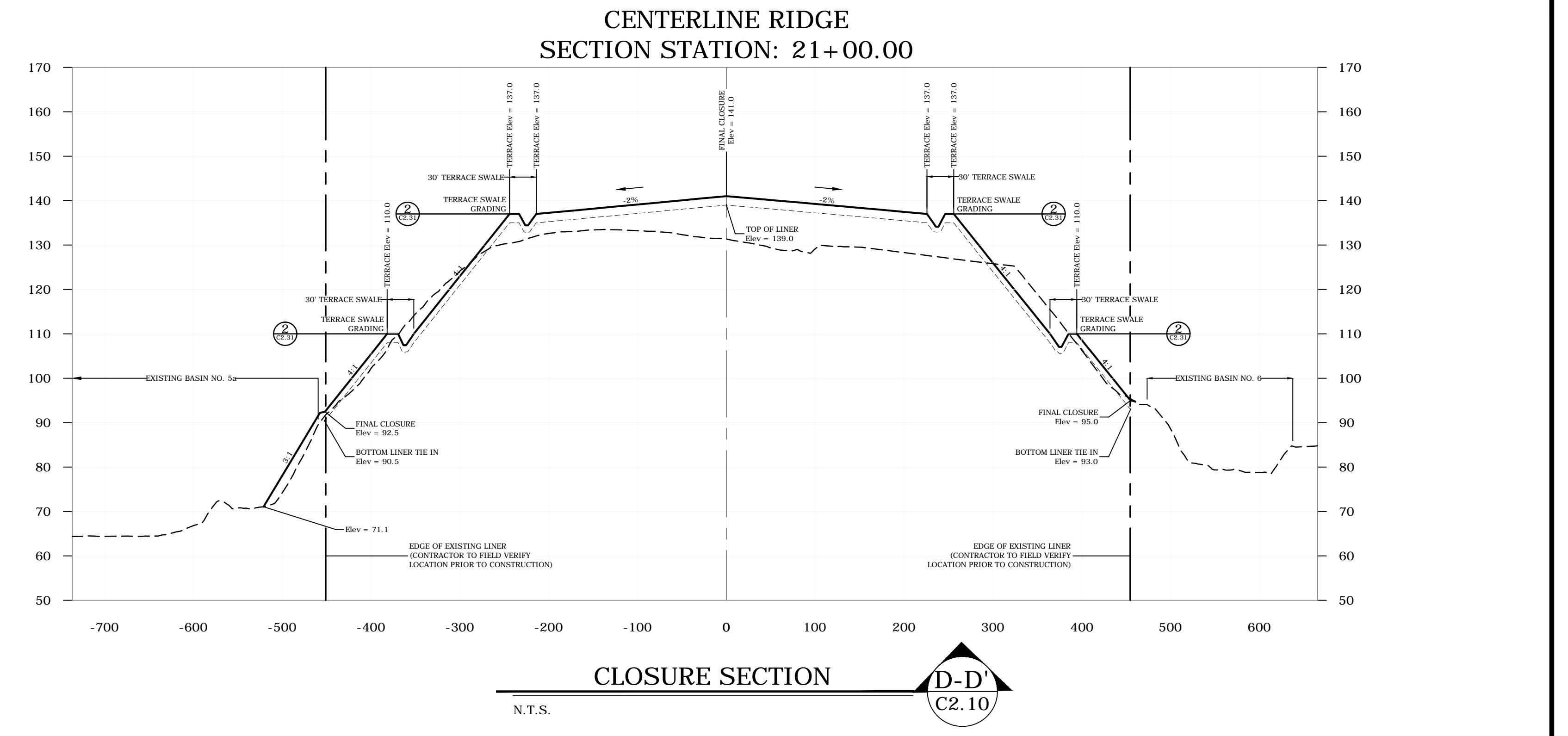
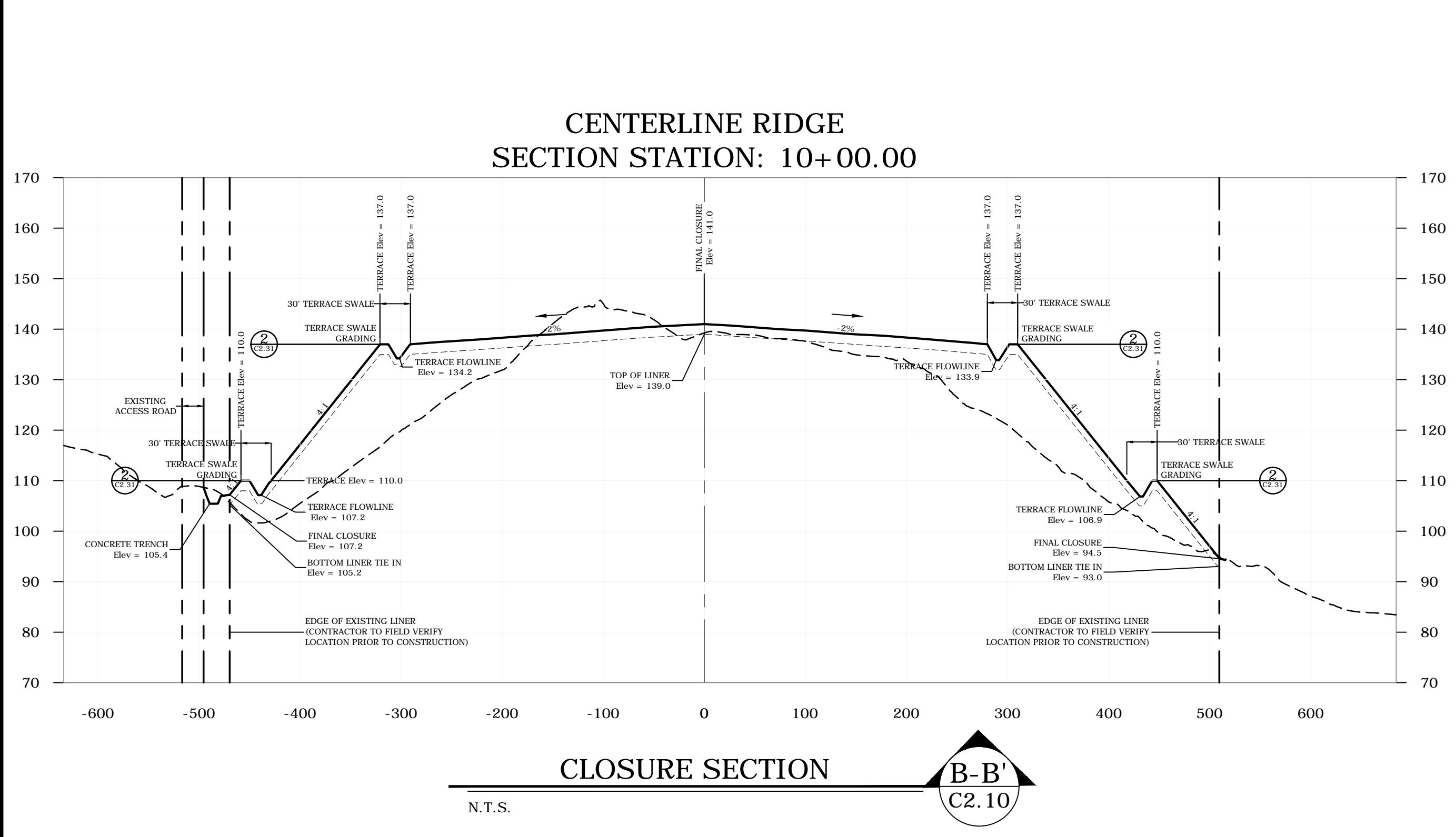
LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

SHEET TITLE: <b>STORMWATER FLUME HORIZONTAL CONTROL PLAN</b>	
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PROJECT NO.: 07000-173-15
SCALE: AS SHOWN
DATE: NOVEMBER 2016
DRAWING: C2.09



PROFILE SCALES:  
HORIZONTAL 1"=100'  
VERTICAL 1"= 20'



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NO.	DATE	REVISION DESCRIPTION	BY

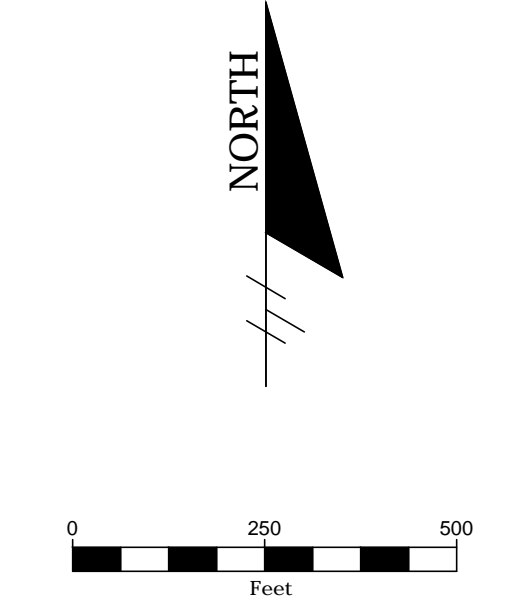
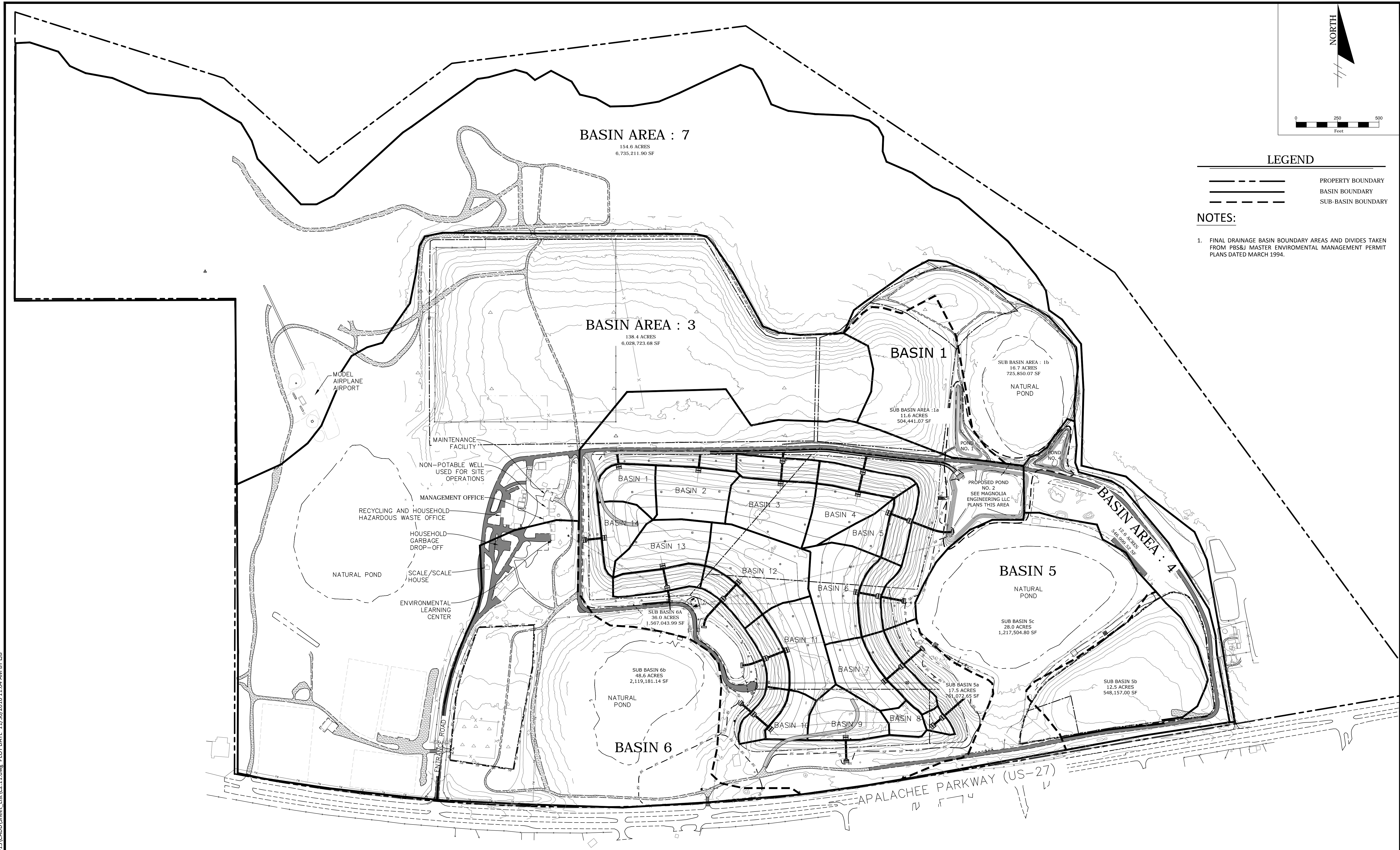
**Locklear & Associates**  
4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066

**PROJECT TITLE:**  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

**SHEET TITLE:**  
FINAL CLOSURE GRADING CROSS SECTIONS

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C2.10



**LEGEND**

- PROPERTY BOUNDARY
- BASIN BOUNDARY
- SUB-BASIN BOUNDARY

**NOTES:**


1. FINAL DRAINAGE BASIN BOUNDARY AREAS AND DIVIDES TAKEN FROM PBS&J MASTER ENVIRONMENTAL MANAGEMENT PERMIT PLANS DATED MARCH 1994.

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NO.	DATE	REVISION DESCRIPTION	BY



4140 NW 37th Place, Suite A  
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Phone: 352.672.6867 Fax: 352.692.5390  
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**PROJECT TITLE:**  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

**SHEET TITLE:**  
FINAL CLOSURE GRADING PLAN DRAINAGE  
DIVIDE

**PROJECT NO.:**  
07000-173-15  
**SCALE:**  
AS SHOWN  
**DATE:**  
NOVEMBER 2016  
**DRAWING:**  
C2.11

Leon County Solid Waste Management Facility Closure Certification of Inactive Landfill Cells				
Point #	Depth of Cover	Notes From Class III West Borings	Northing	Easting
1	24"	WENT TO 24" HIT CLASS 3 III WASTE	517113.37	2078690.26
2	12"	WENT TO 12" HIT CLASS 3 III WASTE	516915.60	2078660.50
3	20"	WENT TO 20" HIT CLASS 3 III WASTE	516717.82	2078630.74
4	25"	WENT TO 25" HIT CLASS 3 III WASTE	516520.05	2078600.98
5	30"	WENT TO 30" HIT CLASS 3 III WASTE	517083.61	2078888.04
6	24"	WENT TO 24" HIT CLASS 3 III WASTE	516885.84	2078858.28
7	24"	WENT TO 24" HIT CLASS 3 III WASTE	516688.06	2078828.52
8	10"	WENT TO 10" HIT CLASS 3 III WASTE	516489.21	2078805.91

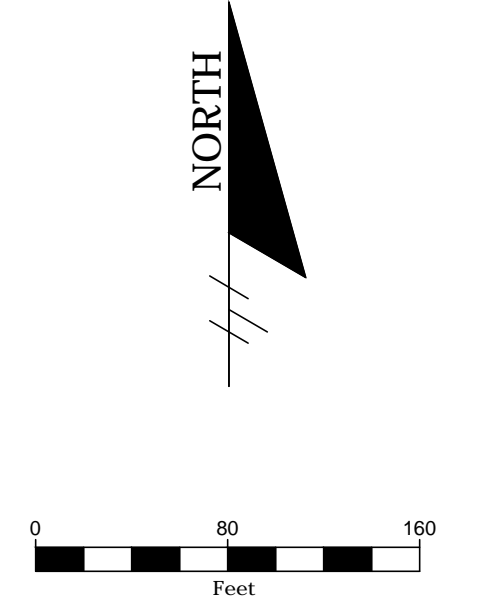
**REFERRAL NOTES**

- SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.

**CLASS III WEST NOTES:**

- TOPOGRAPHIC SURVEY WAS PROVIDED BY PICKETT SURVEYING AND PHOTOGRAMMETRY ON JUNE 24, 2014.
- THE COUNTY PERFORMED AN EVALUATION OF THE FINAL COVER SYSTEM BY PERFORMING 8 BORINGS OVER THE 7.6 ACRES OF THE CLASS III WEST CELL. THE RESULTS OF THESE BORINGS ARE PROVIDED IN THE TABLE ABOVE.
- THICKNESS OF THE EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. THE FINAL COVER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600, F.A.C.
- FINAL COVER SHALL BE PLACED OVER THE ENTIRE SURFACE OF THE CLASS III WEST CELL. THE FINAL COVER SHALL BE VEGETATED TO CONTROL EROSION AND WITH A SPECIES THAT IS DROUGHT RESISTANT.
- TOP GRADIENTS OF THE FINAL COVER SYSTEM SHALL BE GRADED TO MAXIMIZE RUNOFF AND MINIMIZE EROSION AND SHALL BE DESIGNED TO PREVENT PONDING OR LOW SPOTS.
- FINAL COVER SYSTEM SHALL BE GRADED TO MAINTAIN EXISTING DRAINAGE PATTERNS WITH NO SLOPES GREATER THAN 3H:1V.

HORIZONTAL CONTROL POINT TABLE				
Point #	Northing	Easting	Elevation	Description
1001	517.968.38	2081148.37	125.05'	SIRC 5/8" IRC 3DS CONTROL
1002	517.169.20	2080930.16	139.24'	SIRC 5/8" IRC 3DS CONTROL
1003	516.648.25	2081425.21	123.26'	SIRC 5/8" IRC 3DS CONTROL
1004	516.544.65	2080905.59	133.32'	SIRC 5/8" IRC 3DS CONTROL
1005	516.573.04	2080327.06	122.82'	SIRC 5/8" IRC 3DS CONTROL
1006	517.379.27	2080013.51	96.58'	SIRC 5/8" IRC 3DS CONTROL
1007	517.414.78	2079349.72	110.02'	SIRC 5/8" IRC 3DS CONTROL
1008	517.832.11	2079218.82	126.27'	SIRC 5/8" IRC 3DS CONTROL
1009	517.979.76	2079781.94	142.18'	SIRC 5/8" IRC 3DS CONTROL
1010	517.938.48	2080598.99	140.12'	SIRC 5/8" IRC 3DS CONTROL
1011	518.199.65	2081659.06	67.68'	SND 3DS CONTROL LB



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NO.	DATE	REVISION DESCRIPTION	BY

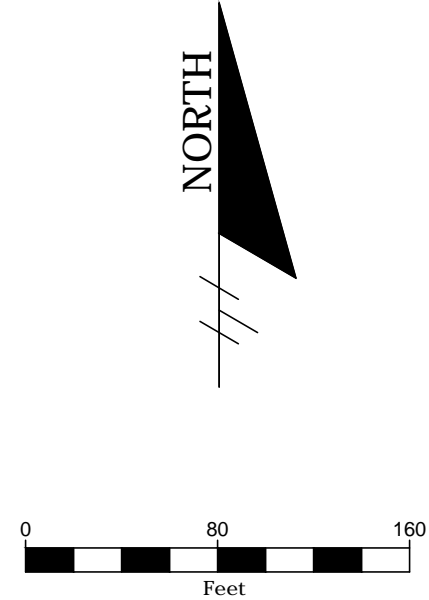
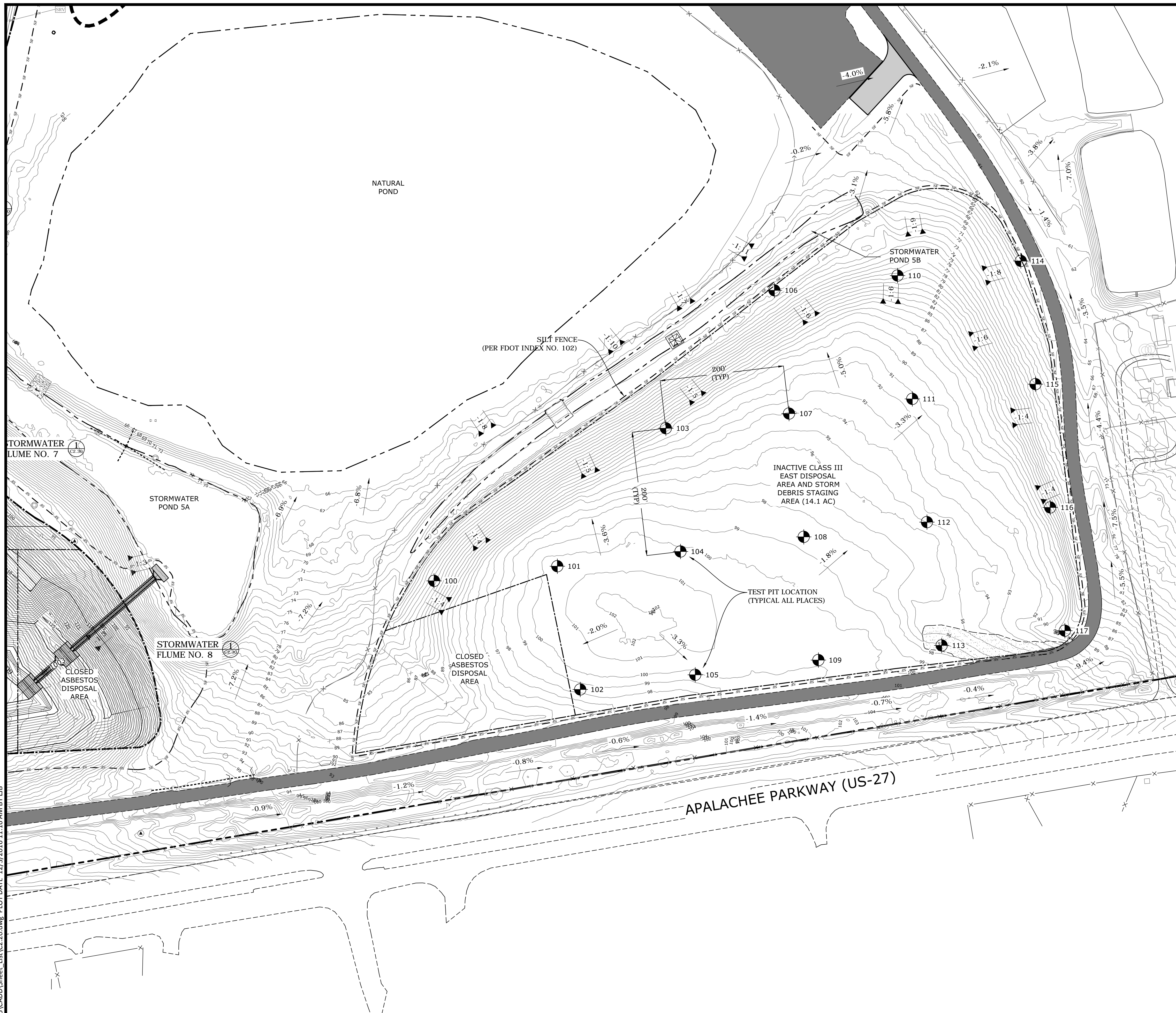
**Locklear & Associates**  
 4140 NW 37th Place, Suite A  
 Gainesville, Florida 32606  
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**LEON COUNTY**  
 PROJECT TITLE:  
 LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
 CLASS I AND CLASS III LANDFILL CLOSURE  
 TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
**CLASS III WEST DISPOSAL AREA TO BE CLOSED**

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C2.20



Leon County Solid Waste Management Facility  
Closure Certification of Inactive Landfill Cells

Point #	Depth of Cover	Notes From Class III East Borings	Northing	Easting
100	32"	WENT TO 32" ALL CLEAN SOIL	516795.64	2082052.88
101	29"	WENT TO 29" ALL CLEAN SOIL	516819.30	2082251.48
102	29"	WENT TO 29" ALL CLEAN SOIL	516620.70	2082288.48
103	29"	WENT TO 29" ALL CLEAN SOIL	517041.56	2082426.41
104	28"	WENT TO 28" ALL CLEAN SOIL	516842.96	2082450.07
105	26"	WENT TO 26" ALL CLEAN SOIL	516644.37	2082473.73
106	27"	WENT TO 27" ALL CLEAN SOIL	517263.81	2082601.34
107	30"	WENT TO 30" ALL CLEAN SOIL	517065.22	2082625.00
108	28"	WENT TO 28" ALL CLEAN SOIL	516866.62	2082648.67
109	26"	WENT TO 26" ALL CLEAN SOIL	516668.03	2082672.33
110	30"	WENT TO 30" ALL CLEAN SOIL	517287.48	2082799.94
111	31"	WENT TO 31" ALL CLEAN SOIL	517088.88	2082823.60
112	29"	WENT TO 29" ALL CLEAN SOIL	516890.29	2082847.26
113	25"	WENT TO 25" HIT CLASS III WASTE	516691.69	2082870.92
114	27"	WENT TO 27" HIT CLASS III WASTE	517311.14	2082998.53
115	30"	WENT TO 30" HIT CLASS III WASTE	517112.54	2083022.19
116	27"	WENT TO 27" HIT CLASS III WASTE	516913.95	2083045.86
117	24"	WENT TO 24" HIT CLASS III WASTE	516715.35	2083069.52

**REFERRAL NOTES**

- SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.

**CLASS III EAST NOTES:**

- TOPOGRAPHIC SURVEY WAS PROVIDED BY PICKETT SURVEYING AND PHOTOGRAMMETRY ON JUNE 24, 2014.
- THE COUNTY PERFORMED AN EVALUATION OF THE FINAL COVER SYSTEM BY PERFORMING 18 BORINGS OVER THE 14.1 ACRES OF THE CLASS III EAST CELL. THE RESULTS OF THESE BORINGS ARE PROVIDED IN THE TABLE ABOVE.
- THICKNESS OF THE EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. THE FINAL COVER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600, F.A.C.
- FINAL COVER SHALL BE PLACED OVER THE ENTIRE SURFACE OF THE CLASS III EAST CELL. THE FINAL COVER SHALL BE VEGETATED TO CONTROL EROSION AND WITH A SPECIES THAT IS DROUGHT RESISTANT.
- TOP GRADIENTS OF THE FINAL COVER SYSTEM SHALL BE GRADED TO MAXIMIZE RUNOFF AND MINIMIZE EROSION AND SHALL BE DESIGNED TO PREVENT PONDING OR LOW SPOTS.
- FINAL COVER SYSTEM SHALL BE GRADED TO MAINTAIN EXISTING DRAINAGE PATTERNS WITH NO SLOPES GREATER THAN 3H:1V.

HORIZONTAL CONTROL POINT TABLE


Point #	Northing	Easting	Elevation	Description
1001	517,968.38	2081148.37	125.05'	SIRC 5/8" IRC 3DS CONTROL
1002	517,169.20	2080930.16	139.24'	SIRC 5/8" IRC 3DS CONTROL
1003	516,648.25	2081425.21	123.26'	SIRC 5/8" IRC 3DS CONTROL
1004	516,544.65	2080905.59	133.32'	SIRC 5/8" IRC 3DS CONTROL
1005	516,573.04	2080327.06	122.82'	SIRC 5/8" IRC 3DS CONTROL
1006	517,379.27	2080013.51	96.58'	SIRC 5/8" IRC 3DS CONTROL
1007	517,414.78	2079349.72	110.02'	SIRC 5/8" IRC 3DS CONTROL
1008	517,832.11	2079218.82	126.27'	SIRC 5/8" IRC 3DS CONTROL
1009	517,979.76	2079781.94	142.18'	SIRC 5/8" IRC 3DS CONTROL
1010	517,938.48	2080598.99	140.12'	SIRC 5/8" IRC 3DS CONTROL
1011	518,199.65	2081659.06	67.68'	SND 3DS CONTROL LB

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NO.	DATE	REVISION DESCRIPTION	BY



4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066

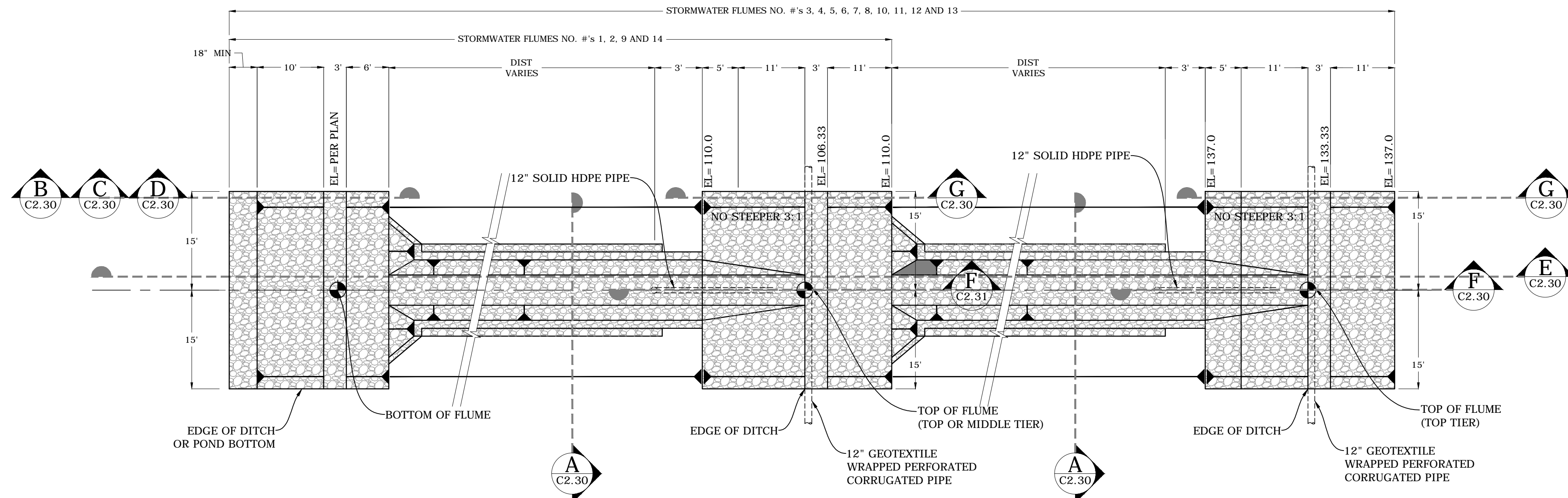


PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER  
DESIGNED BY LIB  
DRAWN BY MAF  
CHECKED BY JDL  
APPROVED BY LIB  
FL PE NO. 74652

SHEET TITLE:  
**CLASS III EAST DISPOSAL AREA TO BE CLOSED**

PROJECT NO.: 07000-173-15  
SCALE: AS SHOWN  
DATE: NOVEMBER 2016  
DRAWING: C2.21



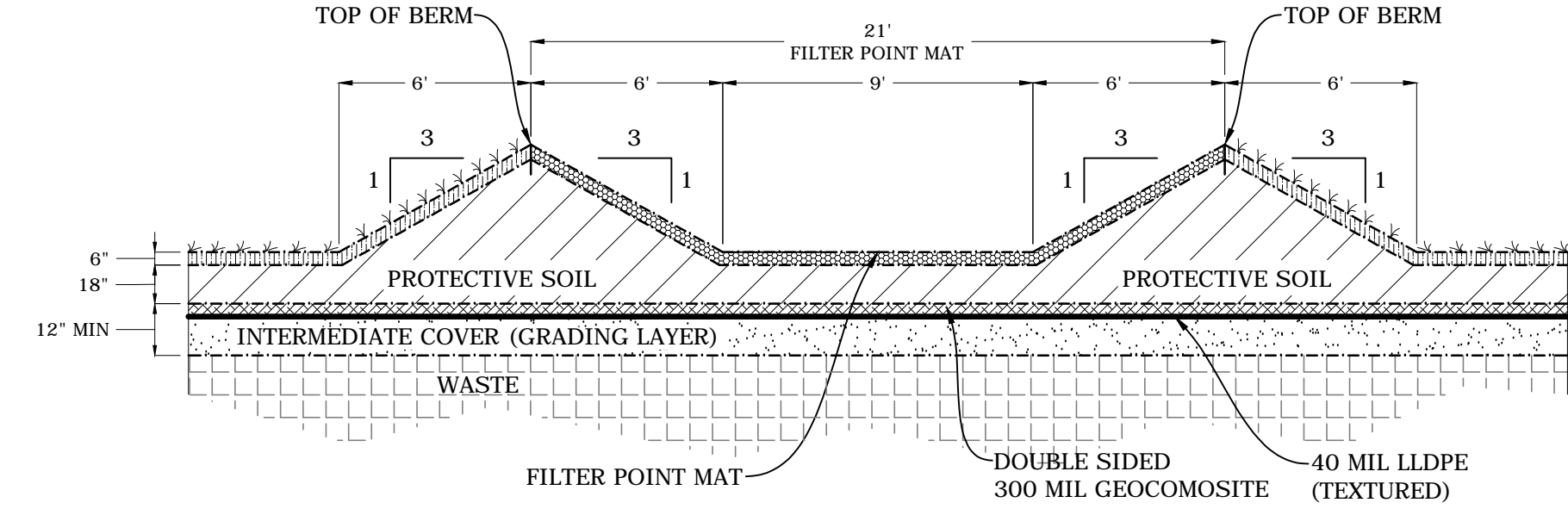
- NOTES:  
 1. UNLESS OTHERWISE NOTED FILTER POINT MAT SHALL BE PLACED ON SURFACE OF FINAL COVER AND ALL SLOPES SHALL CONFORM WITH SLOPES ON WHICH THE FILTER POINT MAT IS PLACED.  
 2. GEOTEXTILE WRAPPED PERFORATED CORRUGATED PIPE REQUIRED ON ALL STORMWATER CONTROL BERMS AND AT FLUMES.

STORMWATER FLUME PLAN VIEW

N.T.S.

1  
C2.30

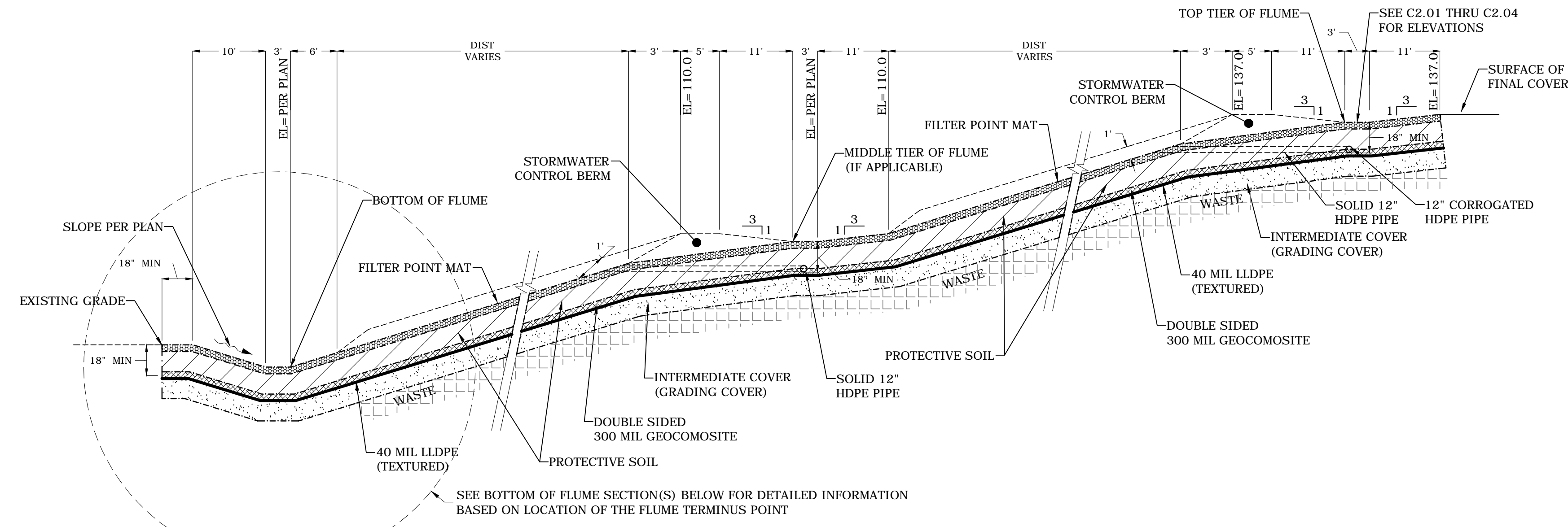
NOTE:  
 FPM = FILTER POINT MAT



DOWNCHUTE CROSS SECTION

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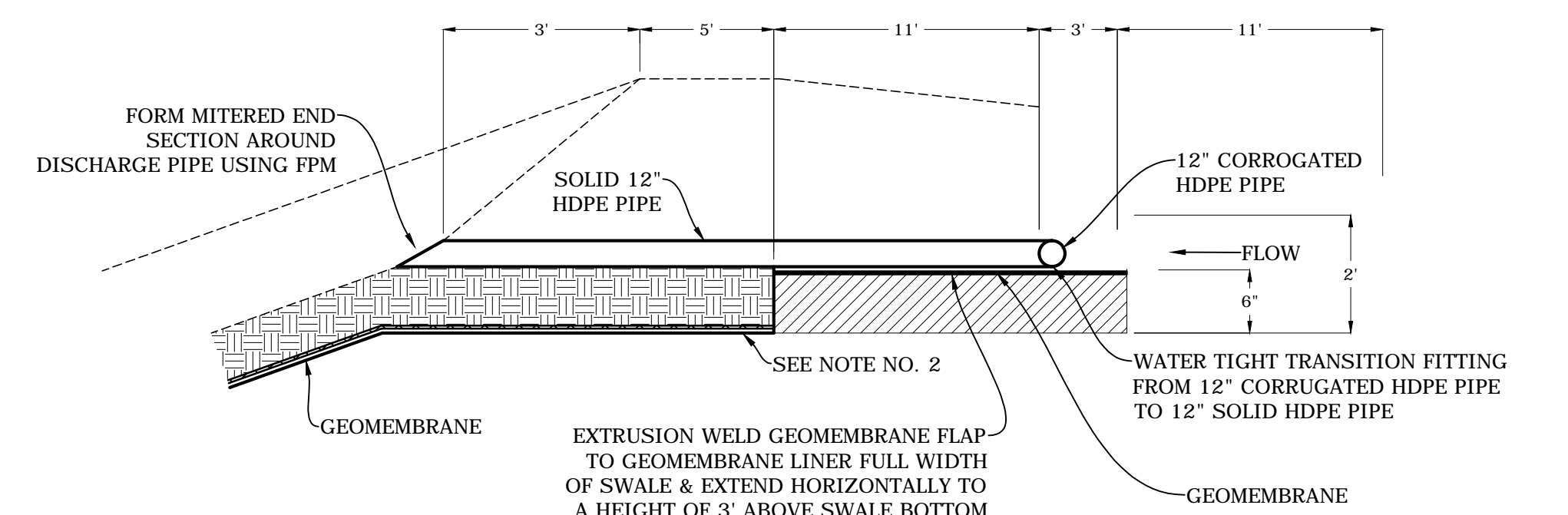
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STORMWATER FLUME PROFILE VIEW

N.T.S.

E  
C2.30

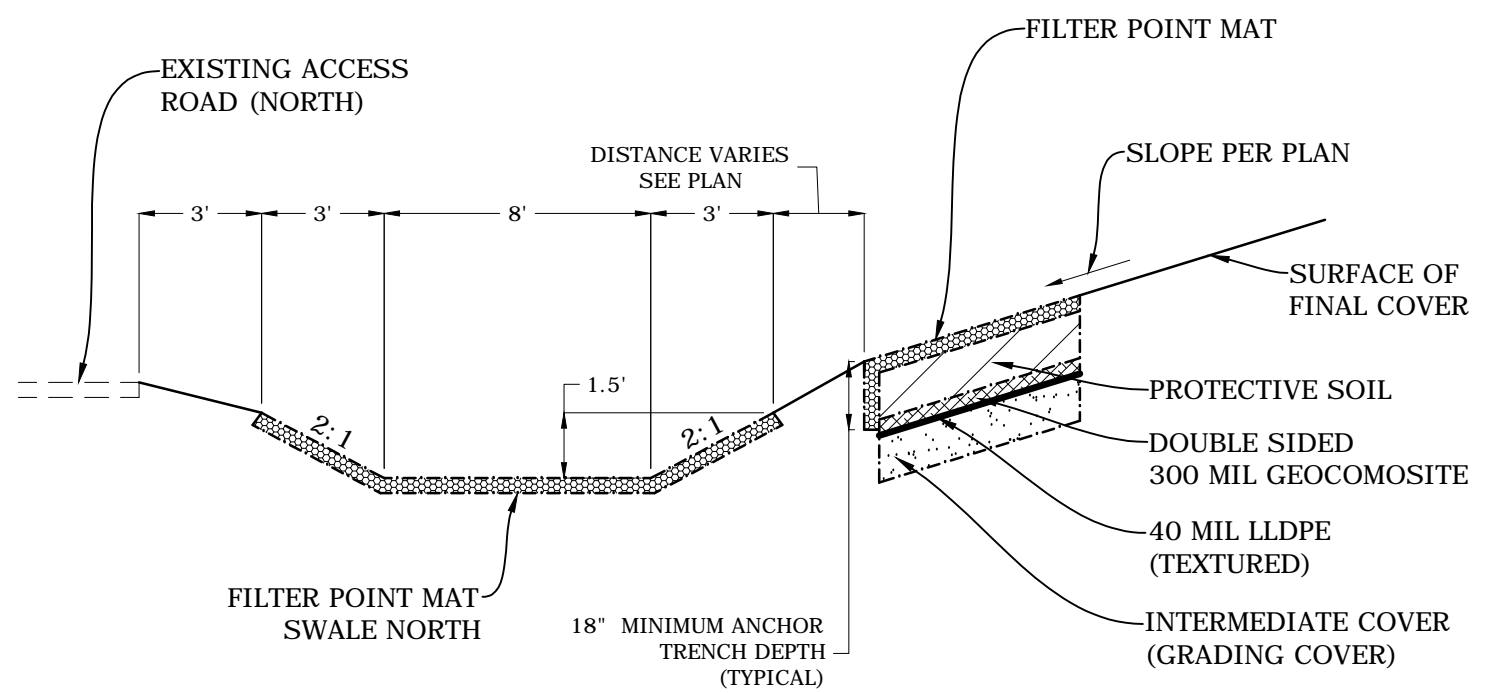


TERRACE SWALE TYPICAL INFILTRATION COLLECTION SYSTEM OUTLET SECTION

N.T.S.

F  
C2.30

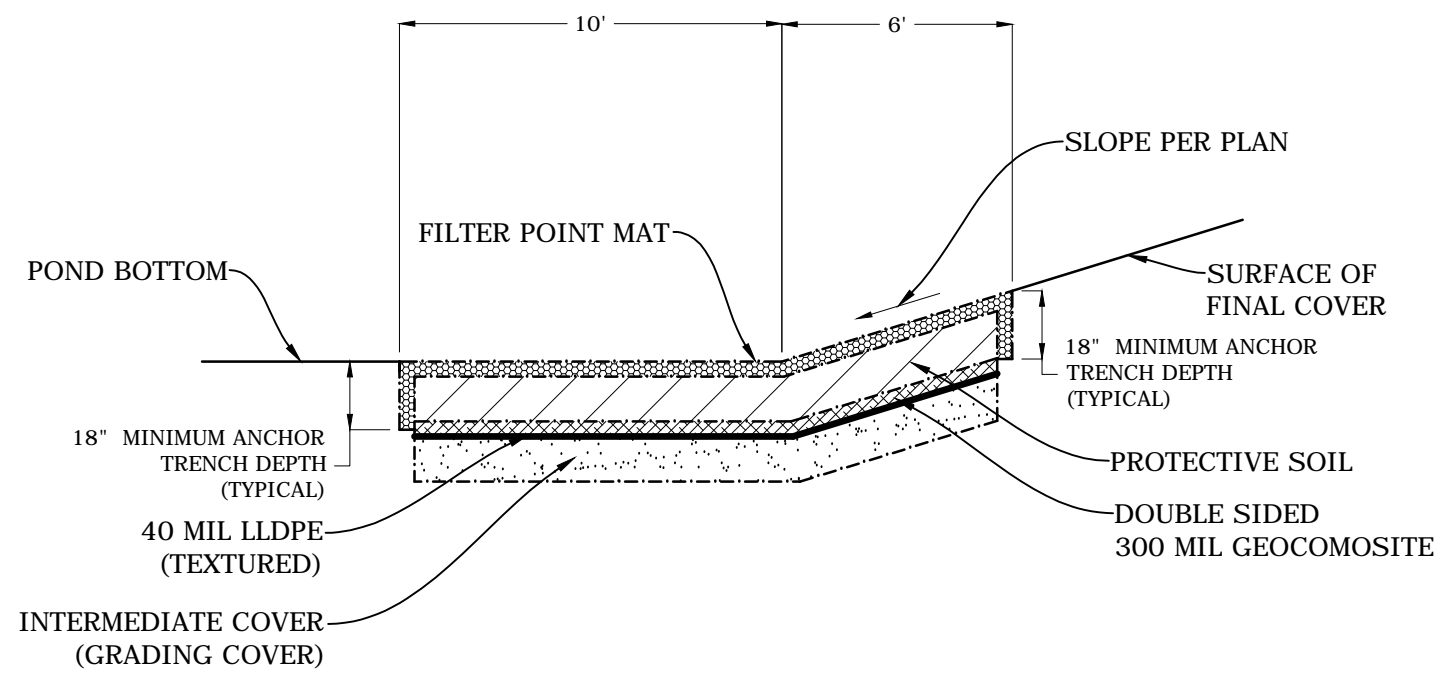
- NOTES:  
 1. DETAIL TYPICAL FOR ALL INFILTRATION COLLECTION SYSTEM OUTLETS.  
 2. PLACE GEOTEXTILE PAD BETWEEN FPM ANCHOR TRENCH BOTTOM AND GEOMEMBRANE ALONG FULL LENGTH AND WIDTH.



BOTTOM FLUME SECTION LOCATED AT FPM SWALE NORTH

N.T.S.

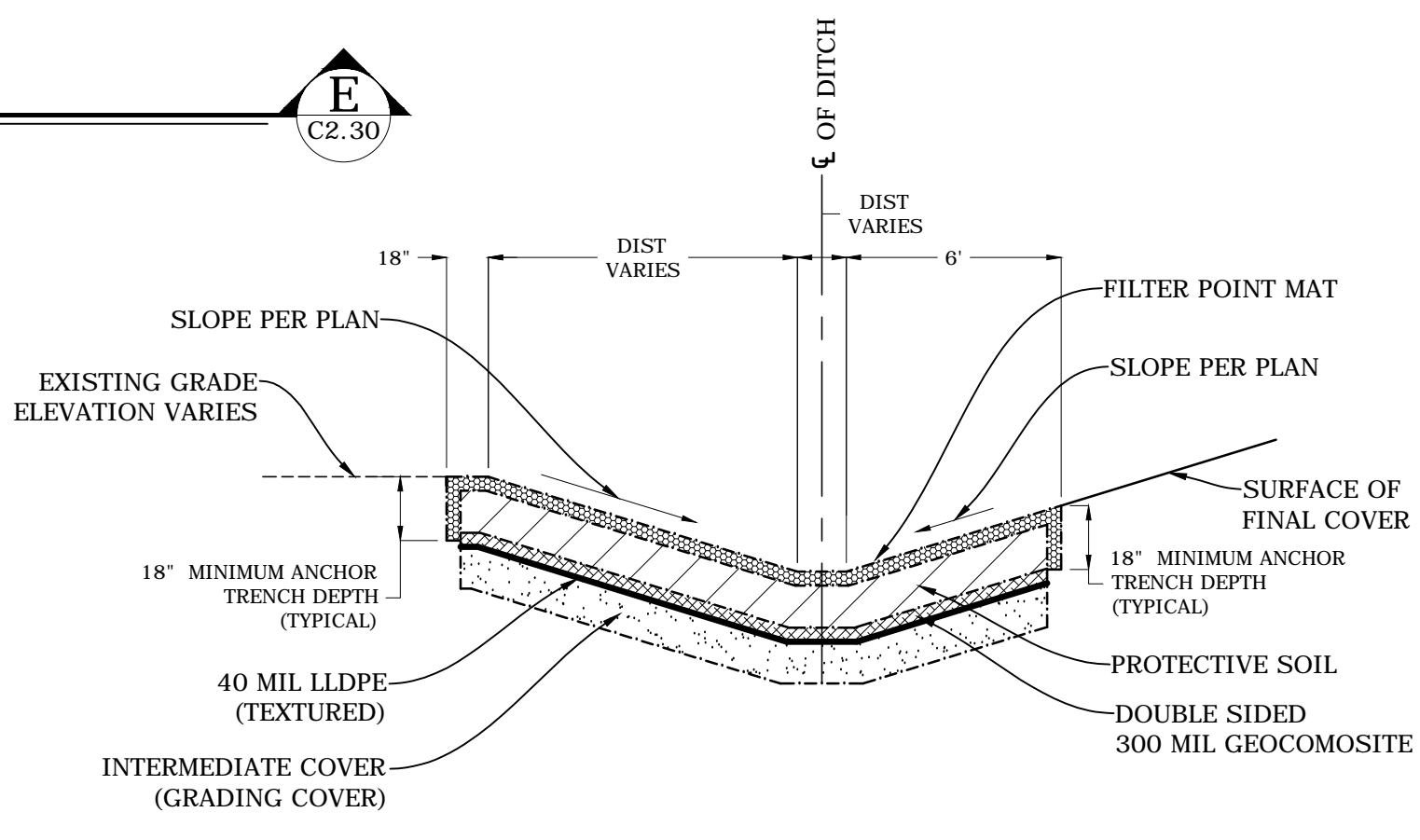
B  
C2.30



BOTTOM FLUME SECTION LOCATED AT POND BOTTOM

N.T.S.

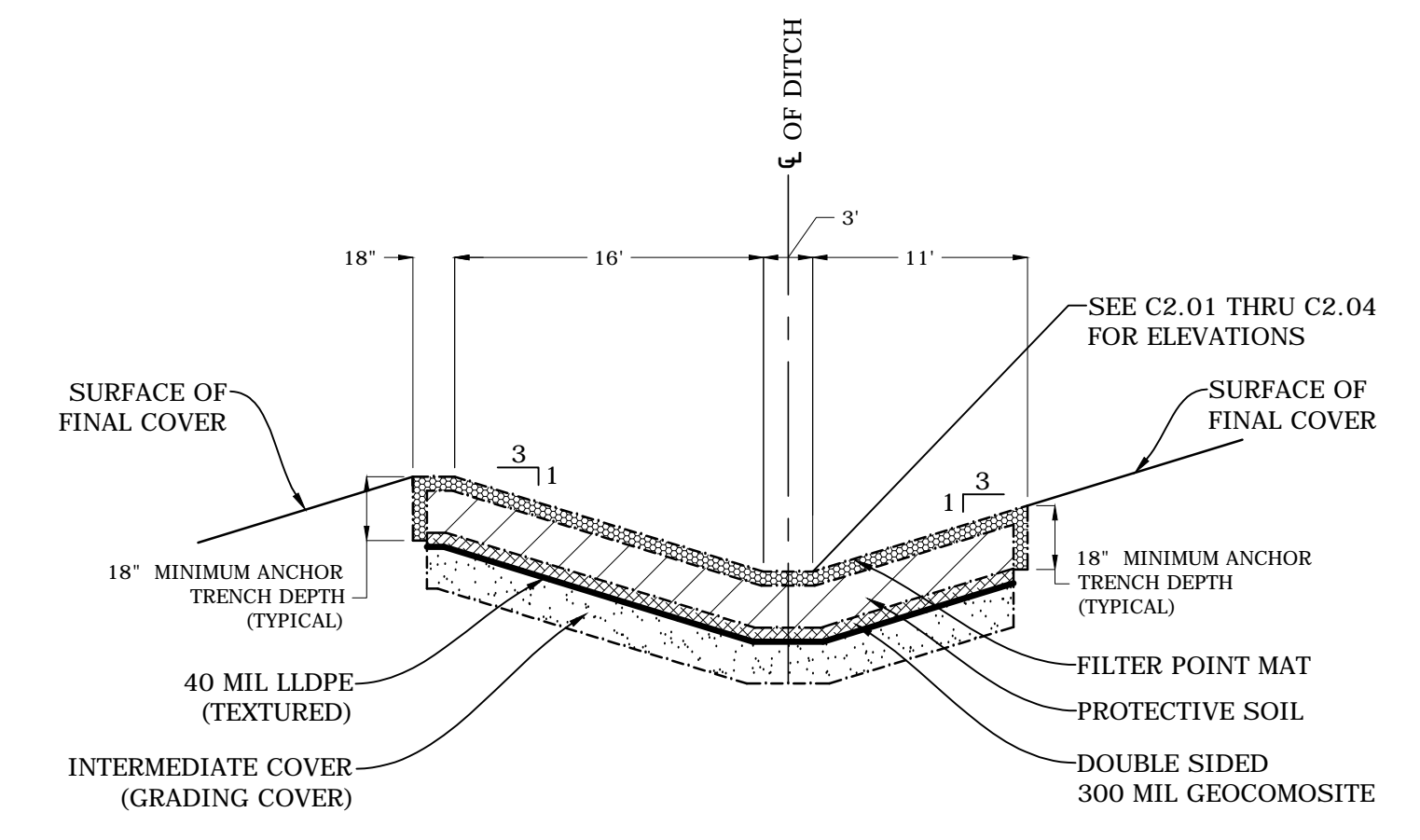
C  
C2.30



BOTTOM FLUME SECTION LOCATED AT EXISTING SWALE

N.T.S.

D  
C2.30



TOP TIER FLUME / INTERMEDIATE TIER SECTION

N.T.S.

G  
C2.30

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NO.	DATE	REVISION DESCRIPTION	BY

4140 NW 37th Place, Suite A  
 Gainesville, Florida 32606  
 Phone: 352.672.6867 Fax: 352.692.5390  
 Certificate of Authorization No. 30066

PROJECT TITLE:  
 LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
 CLASS I AND CLASS III LANDFILL CLOSURE  
 TALLAHASSEE, LEON COUNTY, FLORIDA

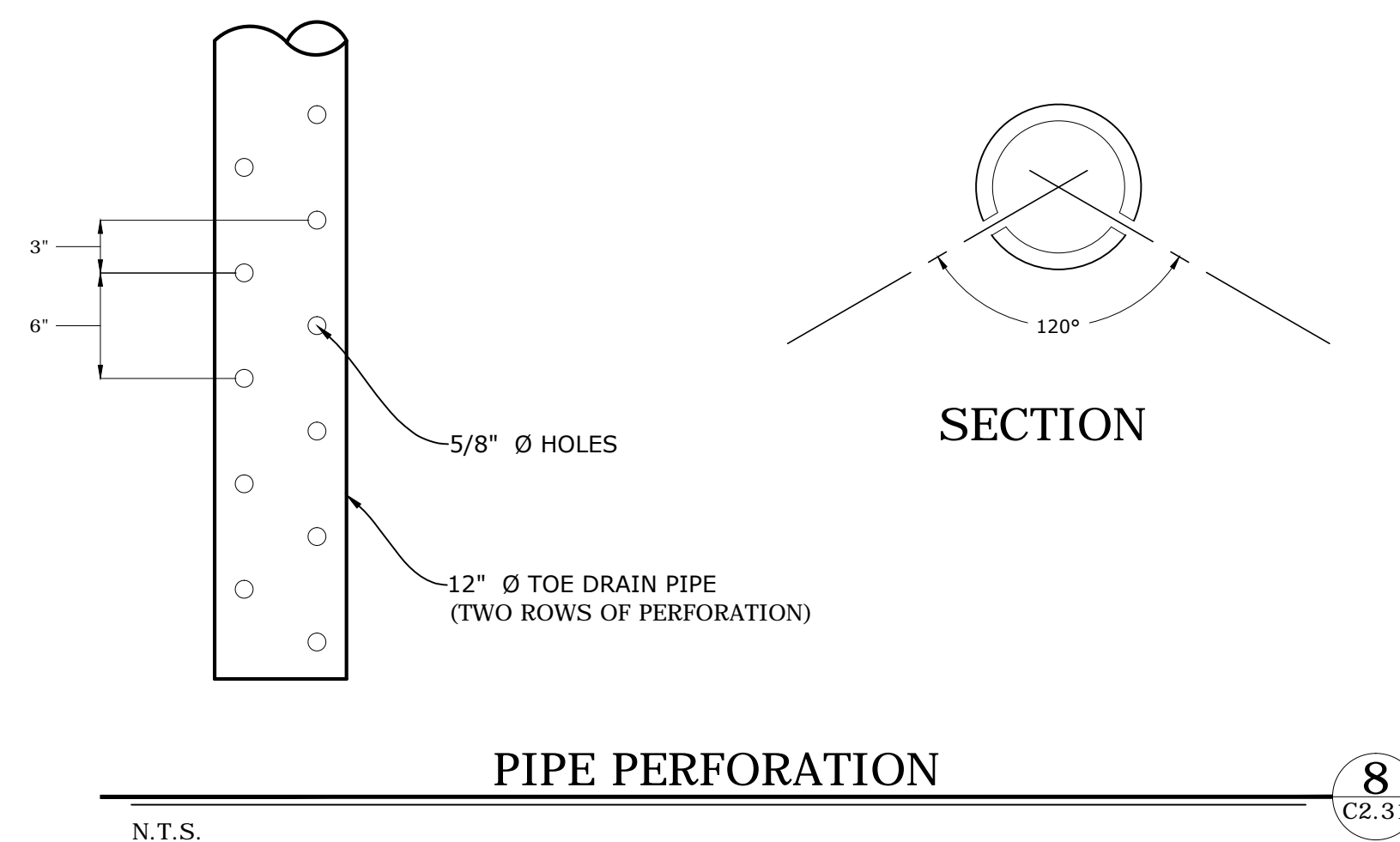
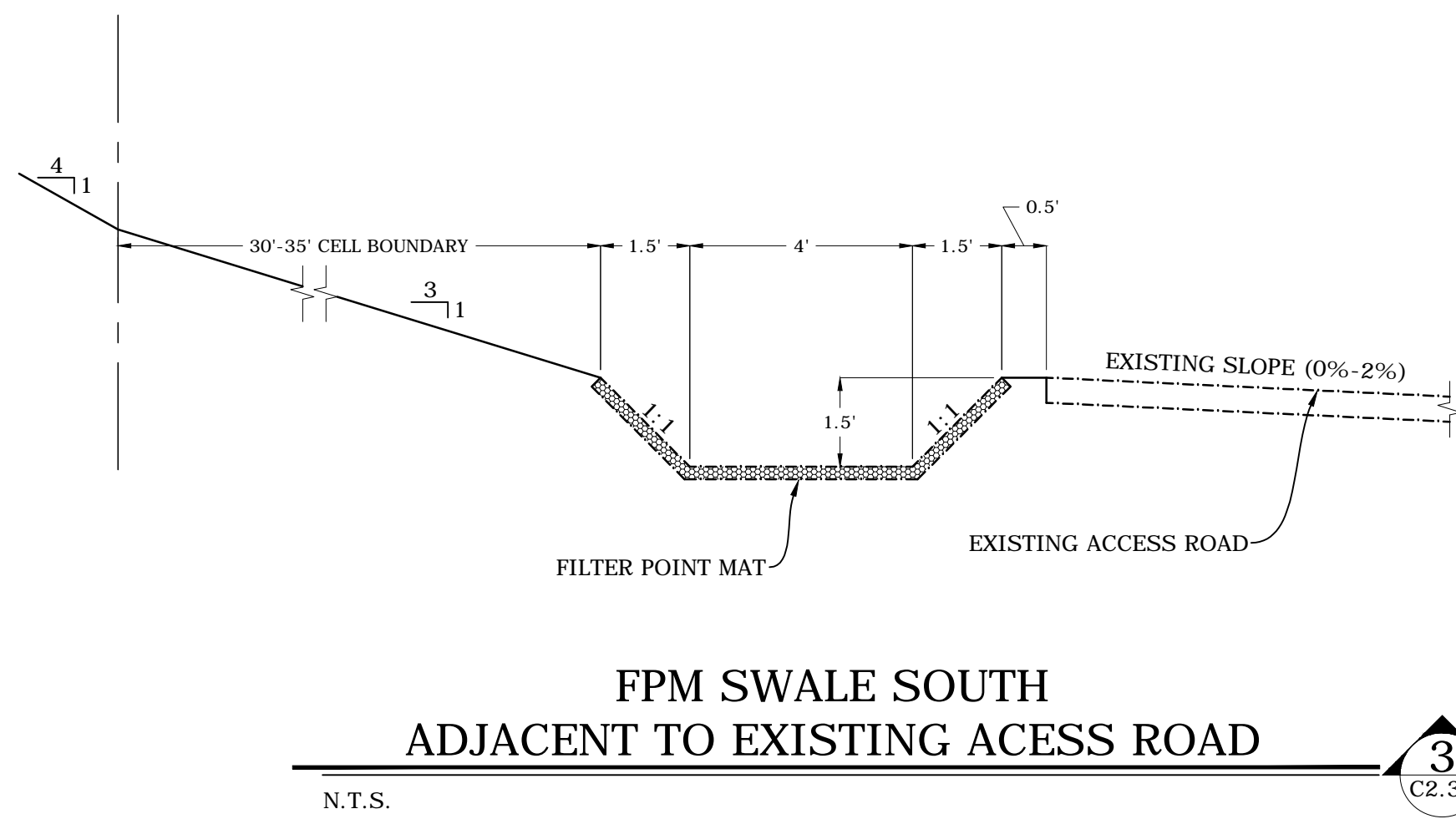
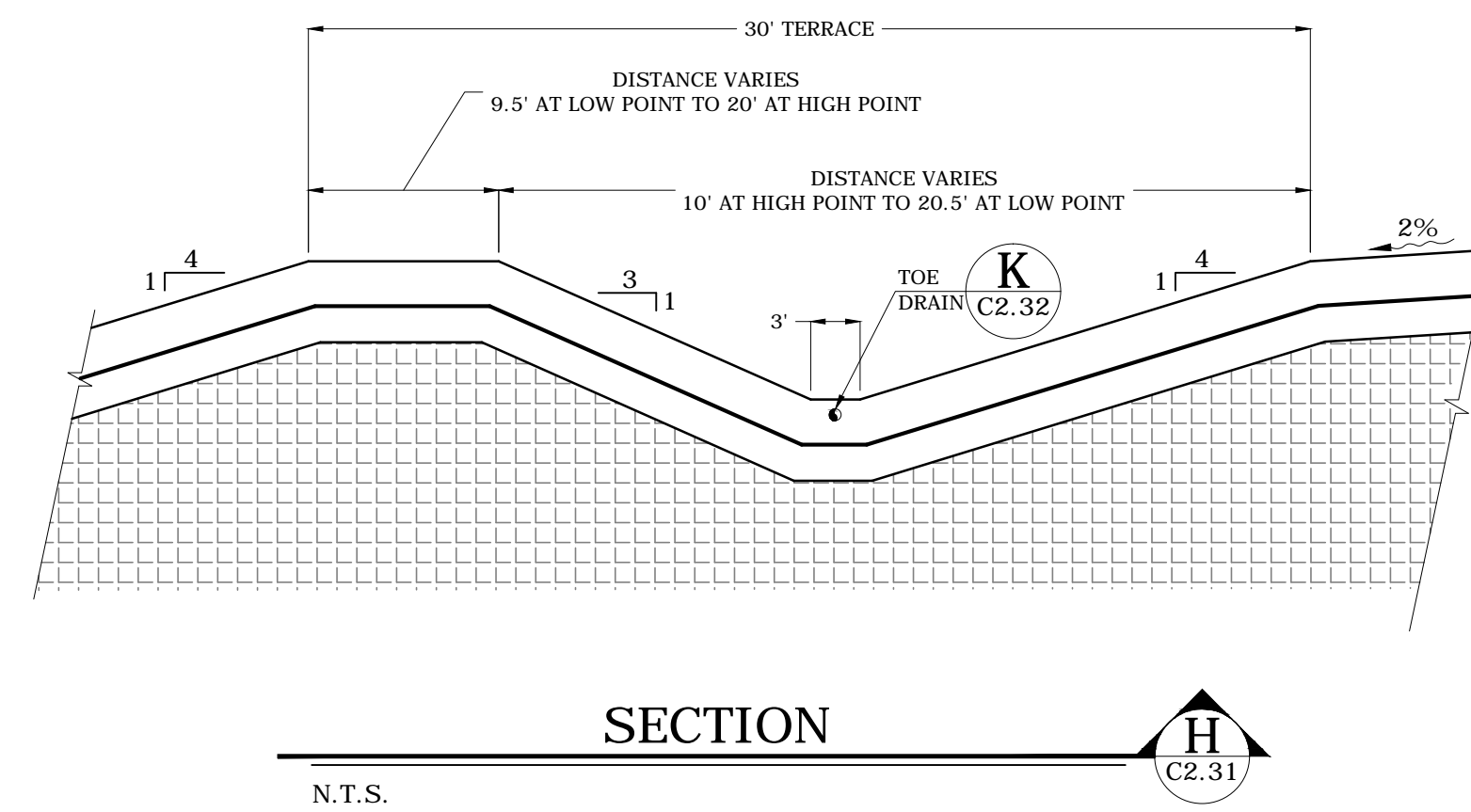
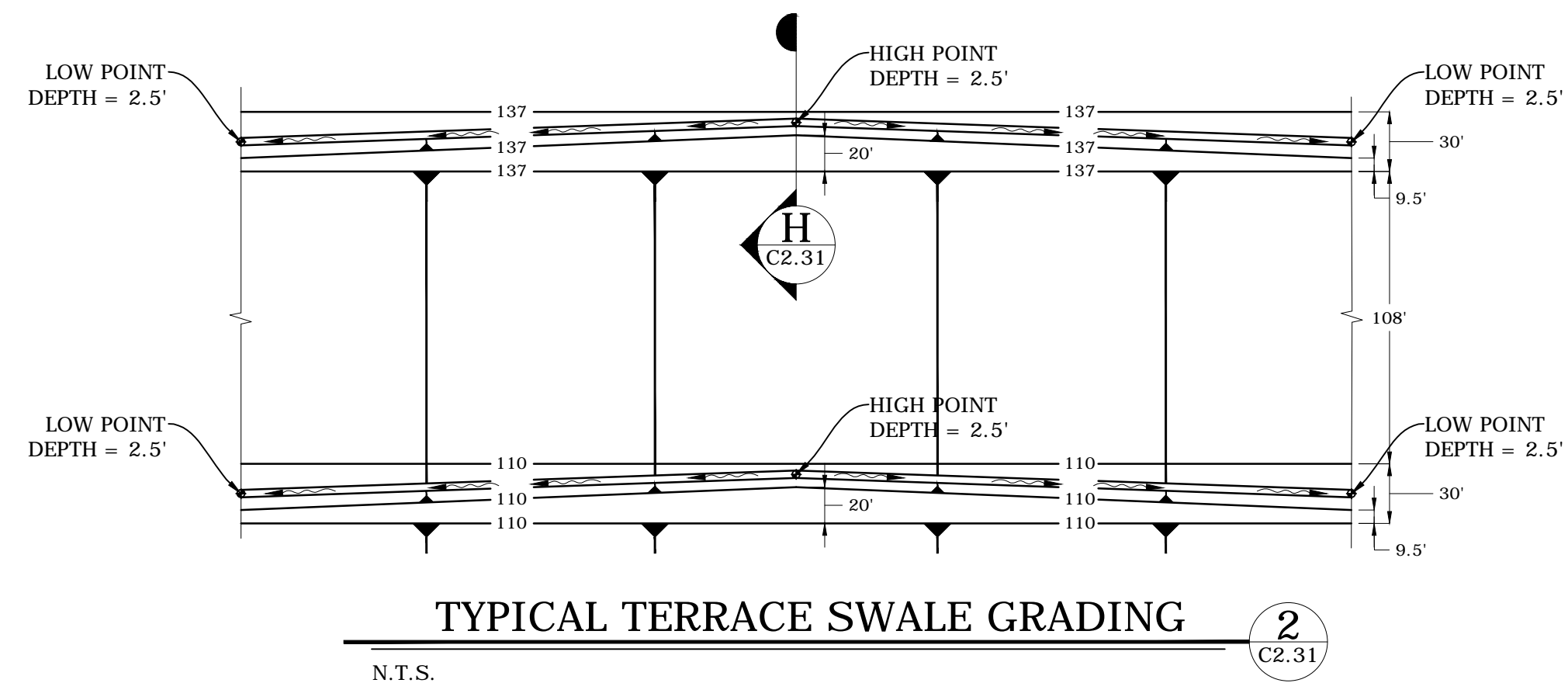
LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
**DRAINAGE CONSTRUCTION DETAILS**

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C2.30

**NOTE:**

FPM = FILTER POINT MAT



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4140 NW 37th Place, Suite A  
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Certificate of Authorization No. 30066



PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

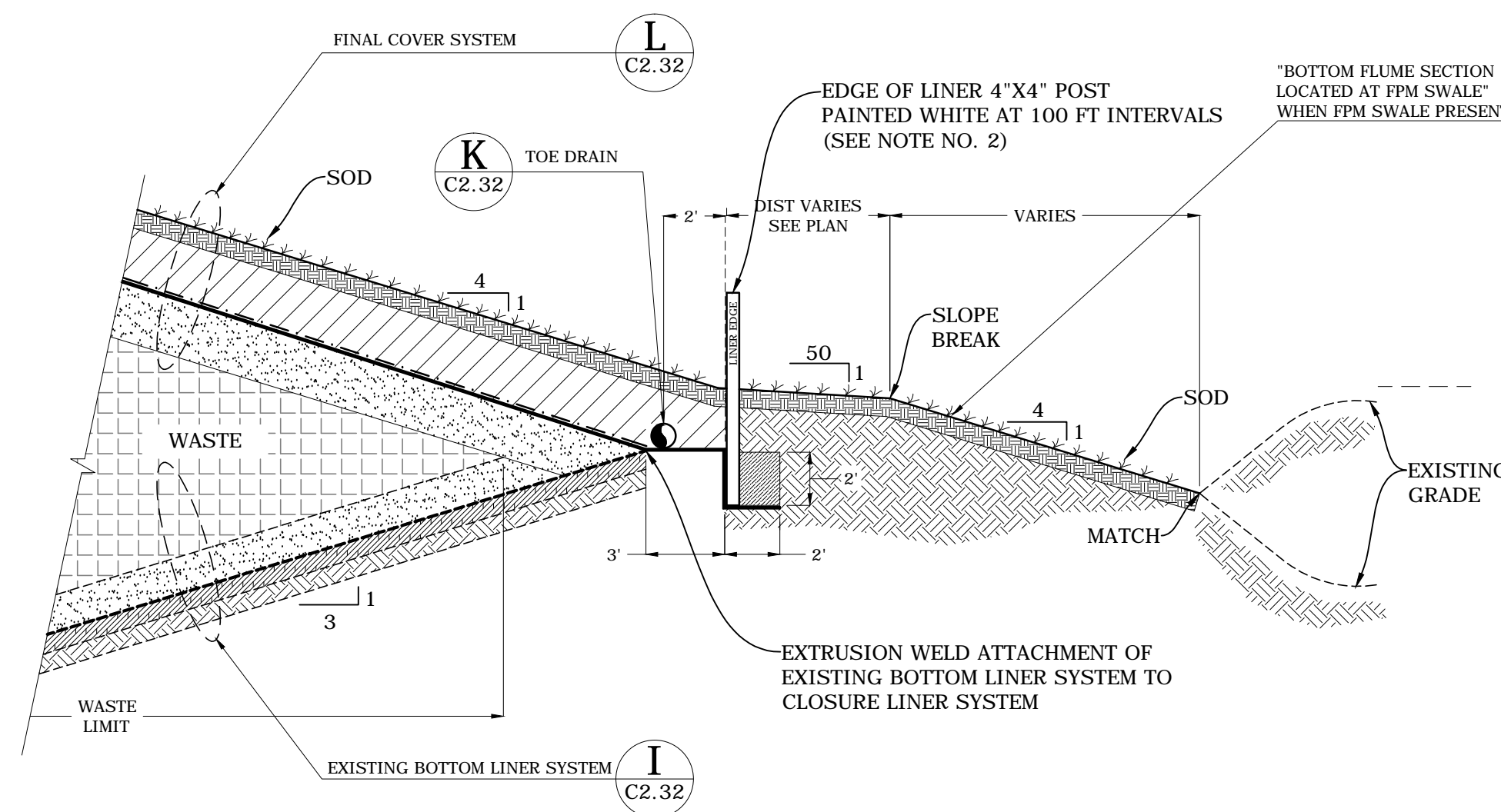
LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:	
DRAINAGE CONSTRUCTION DETAILS	

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C2.31

NOTE:

FPM = FILTER POINT MAT

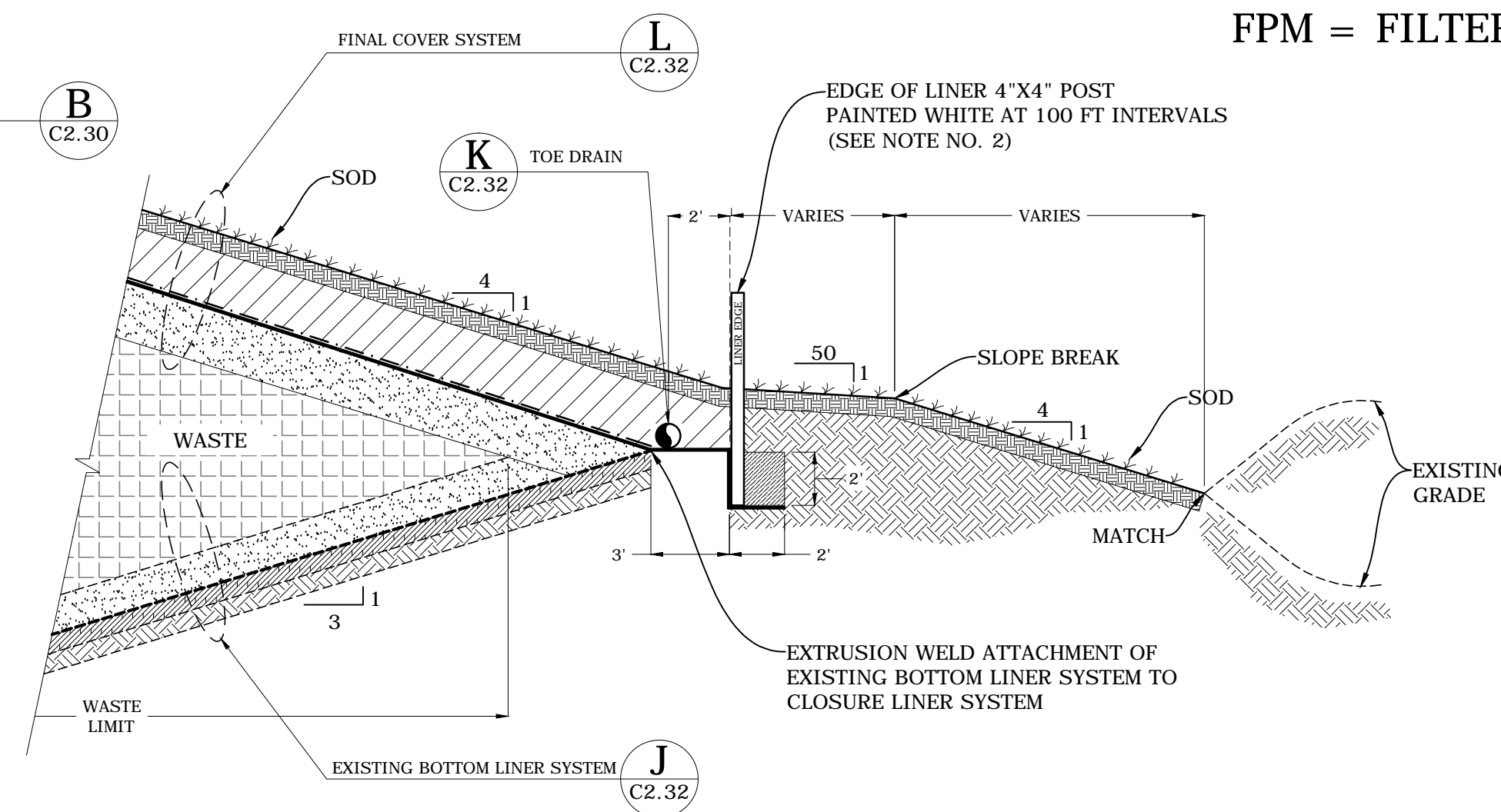


- NOTES:
- CAREFULLY LOCATE AND EXPOSE BOTTOM LINER SYSTEM BY HAND AND EXTRUSION WELD FINAL COVER LINER. DO NOT CUT THE PRIMARY GEOMEMBRANE.
  - LINER LIMIT MARKER SHALL NOT PUNCTURE GEOSYNTHETIC COMPONENTS AND EXTEND AT LEAST 4 FEET ABOVE FINAL GRADE. MARKERS SHALL BE STURDY AND PLUMB.

CELL II B AND CELL IIC FINAL COVER / BOTTOM LINER TIE-IN

N.T.S.

4  
C2.32

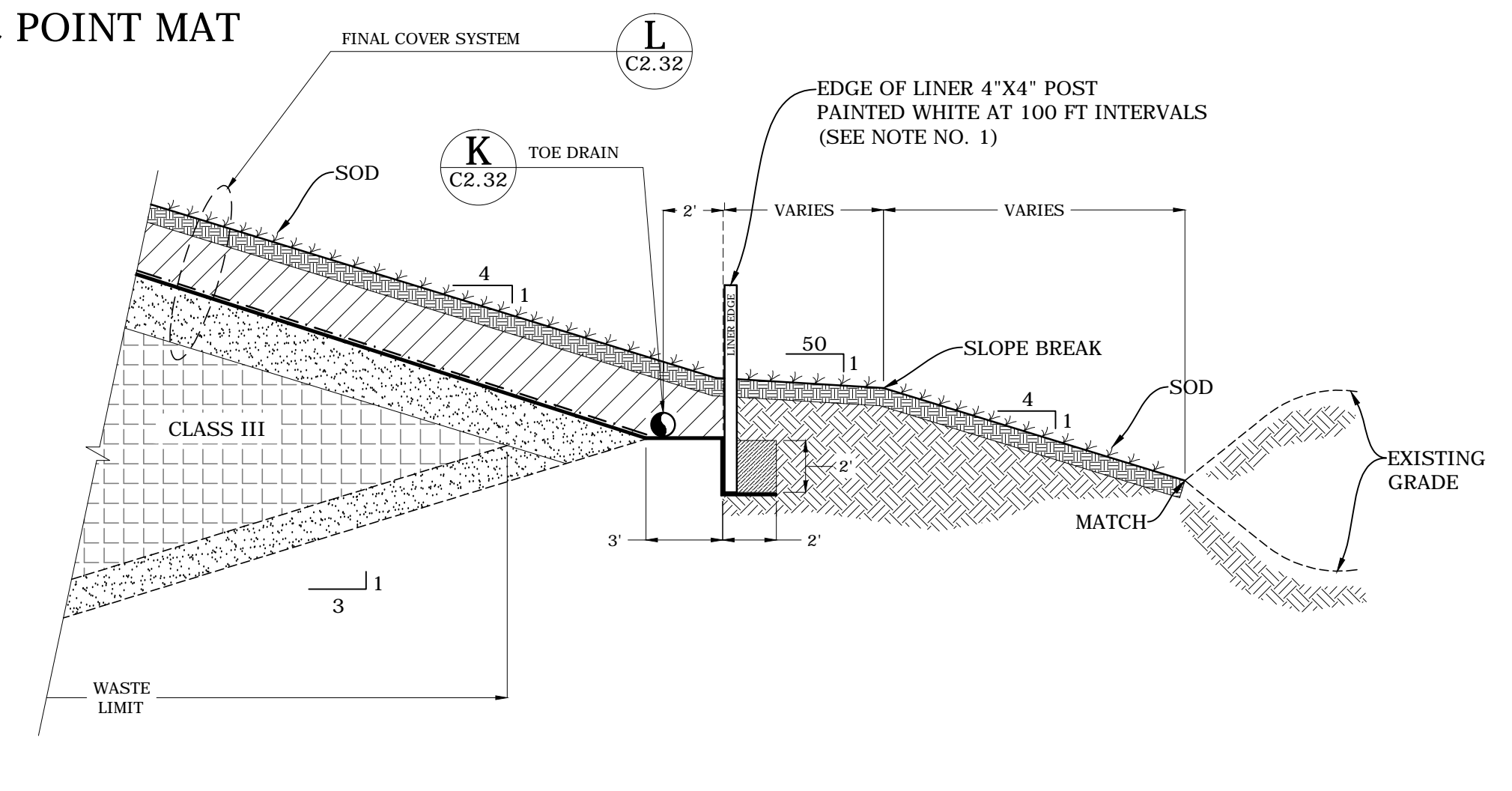


- NOTES:
- CAREFULLY LOCATE AND EXPOSE BOTTOM LINER SYSTEM BY HAND AND EXTRUSION WELD FINAL COVER LINER. DO NOT CUT THE PRIMARY GEOMEMBRANE.
  - LINER LIMIT MARKER SHALL NOT PUNCTURE GEOSYNTHETIC COMPONENTS AND EXTEND AT LEAST 4 FEET ABOVE FINAL GRADE. MARKERS SHALL BE STURDY AND PLUMB.

CELL IID FINAL COVER / BOTTOM LINER TIE-IN

N.T.S.

5  
C2.32

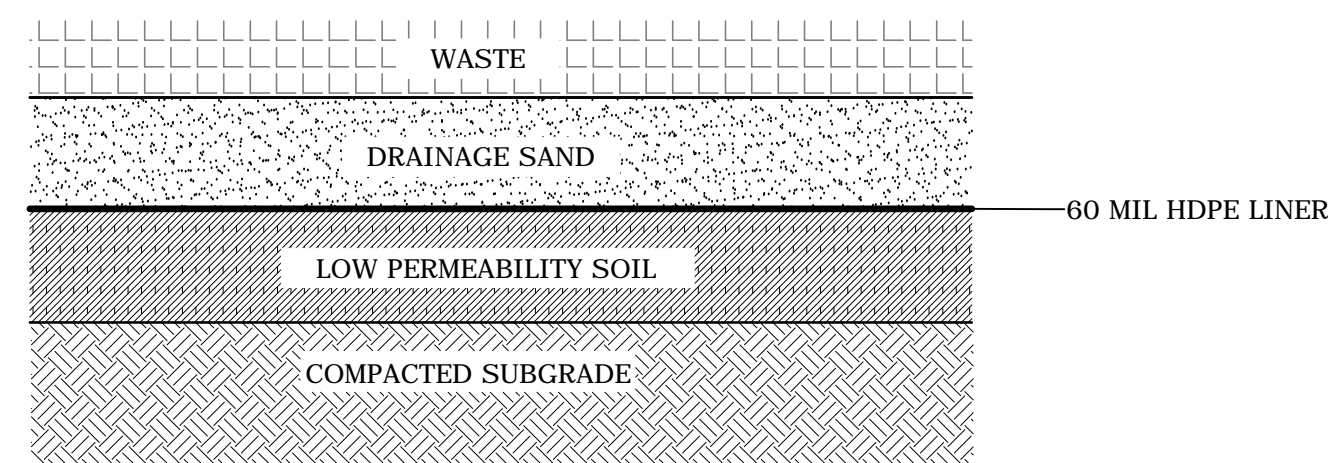


- NOTES:
- CAREFULLY LOCATE AND EXPOSE BOTTOM LINER SYSTEM BY HAND AND EXTRUSION WELD FINAL COVER LINER. DO NOT CUT THE PRIMARY GEOMEMBRANE.
  - LINER LIMIT MARKER SHALL NOT PUNCTURE GEOSYNTHETIC COMPONENTS AND EXTEND AT LEAST 4 FEET ABOVE FINAL GRADE. MARKERS SHALL BE STURDY AND PLUMB.

CLASS III SOUTH (NO BOTTOM LINER) FINAL COVER

N.T.S.

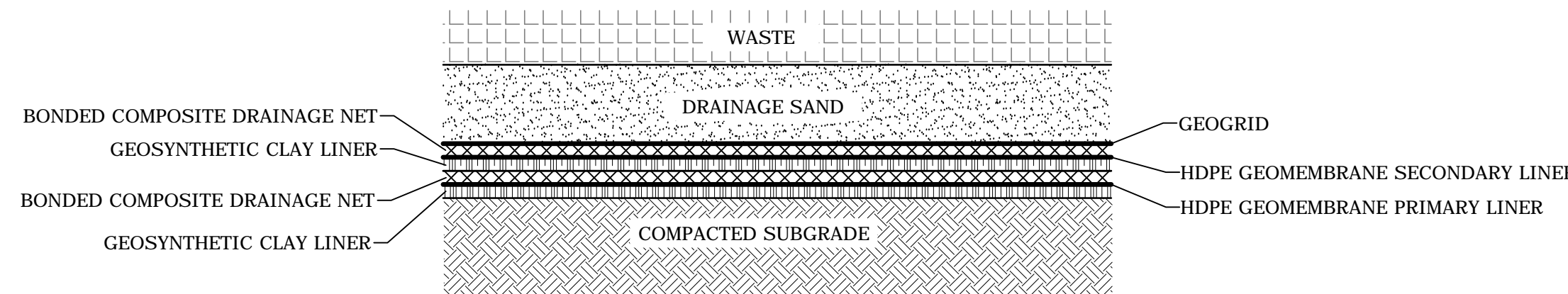
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EXISTING BOTTOM LINER SYSTEM

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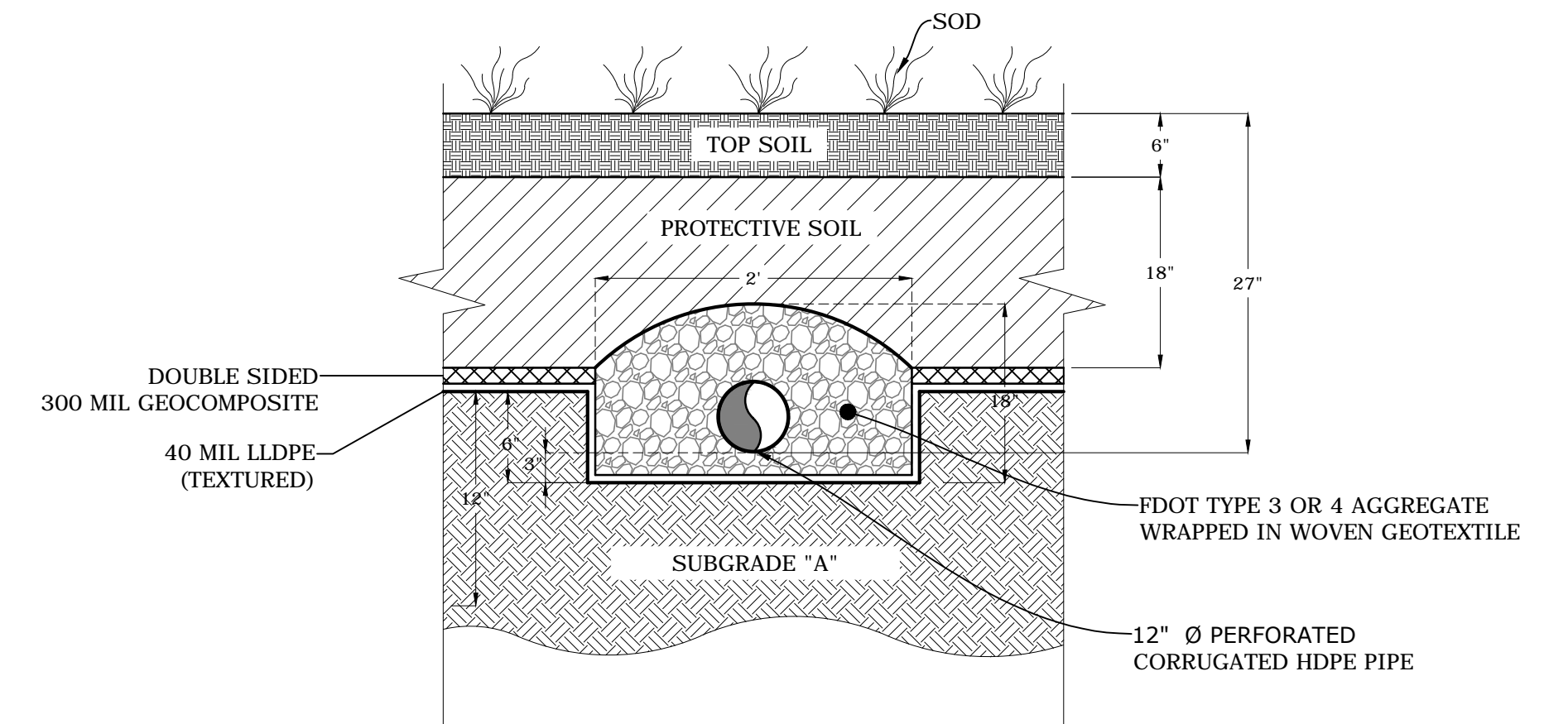
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EXISTING BOTTOM LINER SYSTEM

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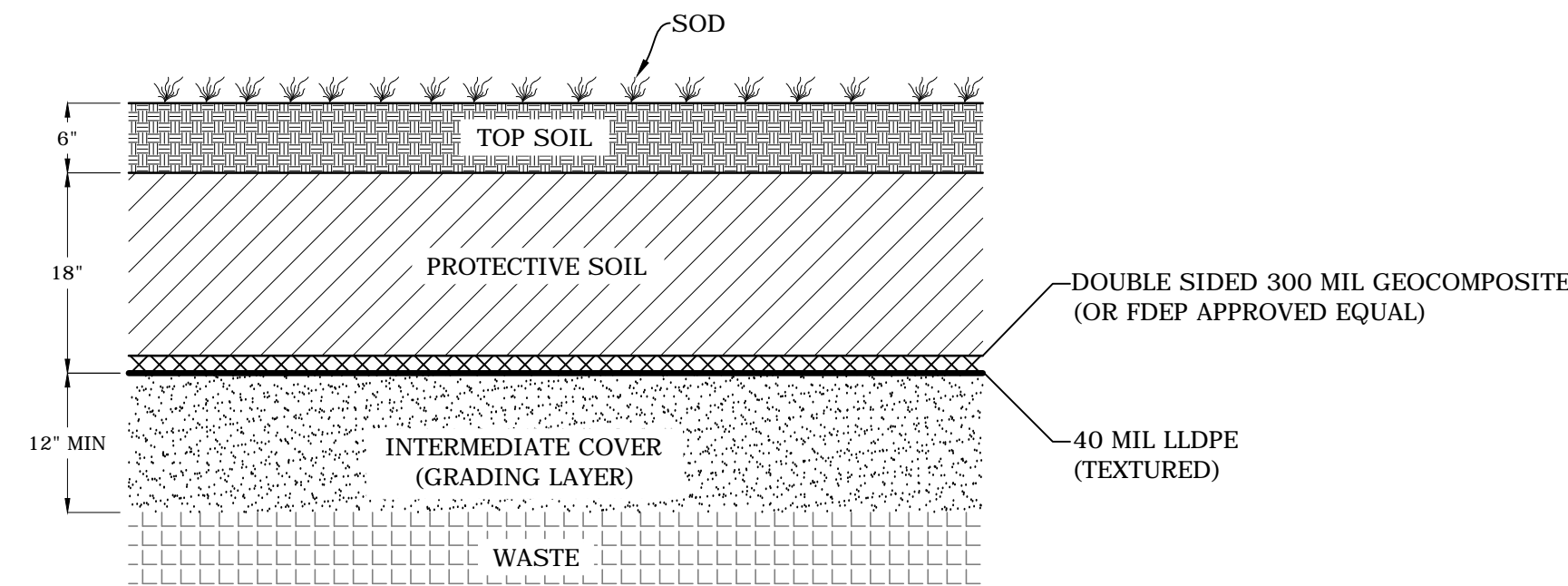
J  
C2.32



TOE DRAIN

N.T.S.

K  
C2.31



FINAL COVER SYSTEM

N.T.S.

L  
C2.32

- NOTES:
- GRADING LAYER SHALL BE APPROVED BY ENGINEER PRIOR TO LINER INSTALLATION.
  - PROTECTIVE SOIL LAYER SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF TOP SOIL.

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NO.	DATE	REVISION DESCRIPTION	BY



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Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066



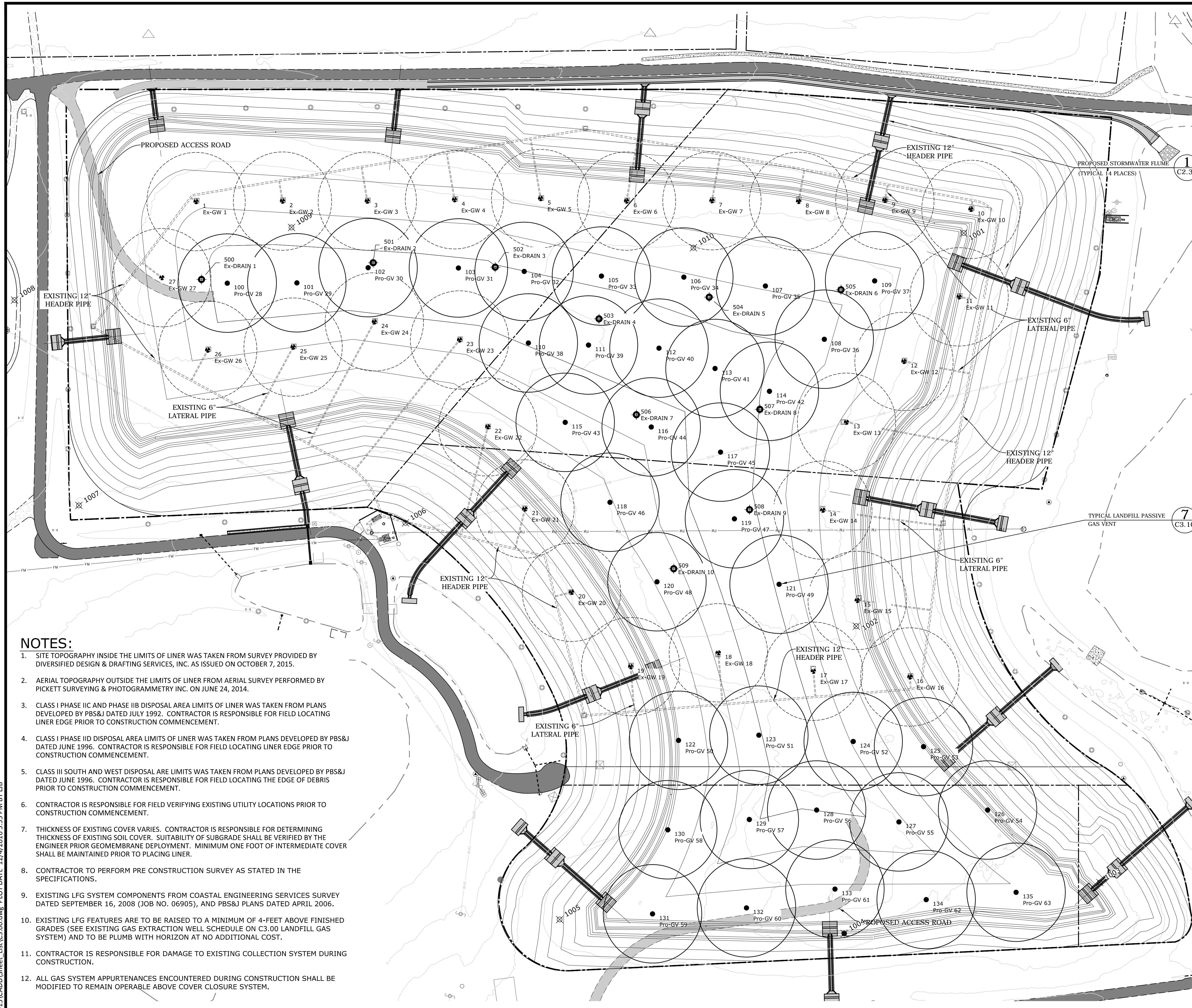
PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
CLOSURE CONSTRUCTION DETAILS

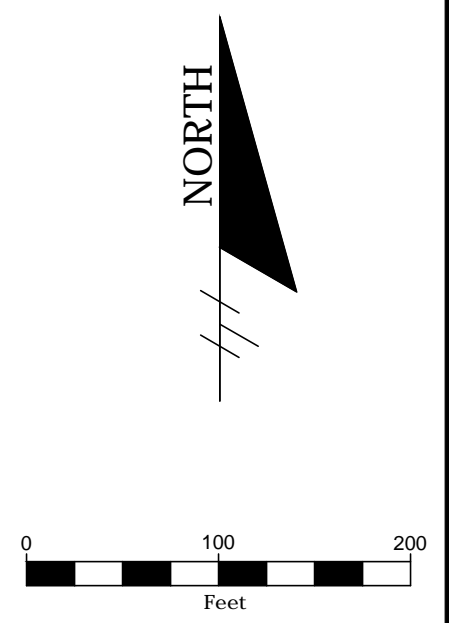
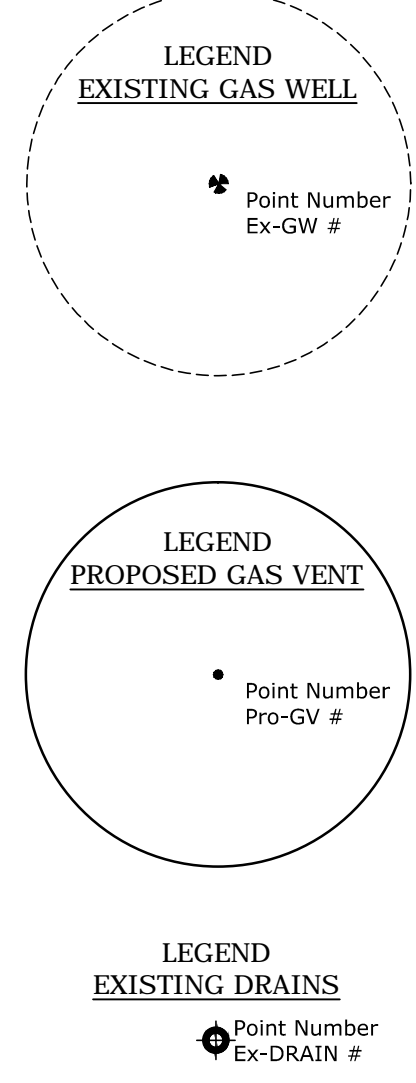
PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C2.32





EXISTING GAS EXTRACTION WELL SCHEDULE				EXISTING GAS EXTRACTION RISER SCHEDULE		
Point #	Description	Northing	Easting	Existing Grade Elevation	Description	Final Closure Grade
1	Ex-GW 1	518032.36	2079587.85	135.26'	Ex-GW 1	138.80
2	Ex-GW 2	518033.38	2079763.53	135.90'	Ex-GW 2	138.68
3	Ex-GW 3	518033.34	2079935.95	134.05'	Ex-GW 3	138.53
4	Ex-GW 4	518036.10	2080113.26	131.74'	Ex-GW 4	138.55
5	Ex-GW 5	518038.50	2080288.33	128.13'	Ex-GW 5	137.78
6	Ex-GW 6	518033.42	2080462.97	127.09'	Ex-GW 6	137.51
7	Ex-GW 7	518034.09	2080636.64	128.21'	Ex-GW 7	137.28
8	Ex-GW 8	518032.71	2080812.76	127.03'	Ex-GW 8	137.06
9	Ex-GW 9	518034.79	2080988.21	125.82'	Ex-GW 9	135.90
10	Ex-GW 10	518016.57	2081163.19	121.90'	Ex-GW 10	132.34
11	Ex-GW 11	517838.80	2081139.14	123.98'	Ex-GW 11	135.11
12	Ex-GW 12	517707.54	2081027.05	131.34'	Ex-GW 12	137.46
13	Ex-GW 13	517583.93	2080910.20	140.06'	Ex-GW 13	137.85
14	Ex-GW 14	517405.19	2080862.14	140.09'	Ex-GW 14	137.89
15	Ex-GW 15	517221.69	2080931.96	135.47'	Ex-GW 15	136.81
16	Ex-GW 16	517066.14	2081039.06	129.22'	Ex-GW 16	131.28
17	Ex-GW 17	517077.72	2080843.04	134.49'	Ex-GW 17	139.40
18	Ex-GW 18	517115.23	2080649.61	134.00'	Ex-GW 18	139.20
19	Ex-GW 19	517087.18	2080471.39	124.33'	Ex-GW 19	130.06
20	Ex-GW 20	517238.21	2080351.12	121.09'	Ex-GW 20	123.68
21	Ex-GW 21	517407.63	2080256.49	118.44'	Ex-GW 21	131.16
22	Ex-GW 22	517574.43	2080180.85	125.19'	Ex-GW 22	137.40
23	Ex-GW 23	517751.10	2080123.63	136.91'	Ex-GW 23	139.45
24	Ex-GW 24	517787.90	2079950.31	135.73'	Ex-GW 24	139.70
25	Ex-GW 25	517736.55	2079785.11	133.22'	Ex-GW 25	139.01
26	Ex-GW 26	517730.44	2079611.51	131.10'	Ex-GW 26	139.25
27	Ex-GW 27	517877.77	2079518.21	132.74'	Ex-GW 27	138.48

PROPOSED GAS EXTRACTION WELL SCHEDULE				
Point #	Description	Northing	Easting	Finish Grade Elevation
100	Pro-GV 28	517866.49	2079651.34	140.51'
101	Pro-GV 29	517867.15	2079792.83	140.99'
102	Pro-GV 30	517898.05	2079937.61	140.53'
103	Pro-GV 31	517897.40	2080121.22	140.29'
104	Pro-GV 32	517890.44	2080254.98	140.01'
105	Pro-GV 33	517880.96	2080412.00	139.64'
106	Pro-GV 34	517878.86	2080579.56	139.13'
107	Pro-GV 35	517860.78	2080745.39	138.92'
108	Pro-GV 36	517752.50	2080865.14	139.17'
109	Pro-GV 37	517871.23	2080967.44	138.37'
110	Pro-GV 38	517744.94	2080263.44	140.09'
111	Pro-GV 39	517740.73	2080385.69	140.69'
112	Pro-GV 40	517734.41	2080529.01	140.86'
113	Pro-GV 41	517693.13	2080642.92	140.88'
114	Pro-GV 42	517646.80	2080753.57	139.79'
115	Pro-GV 43	517583.63	2080338.36	138.68'
116	Pro-GV 44	517574.15	2080513.30	139.42'
117	Pro-GV 45	517523.09	2080654.10	140.99'
118	Pro-GV 46	517421.16	2080429.40	137.93'
119	Pro-GV 47	517387.53	2080682.35	140.78'
120	Pro-GV 48	517259.53	2080524.93	138.10'
121	Pro-GV 49	517254.51	2080773.17	139.80'
122	Pro-GV 50	516937.16	2080568.69	137.00'
123	Pro-GV 51	516947.81	2080732.05	139.89'
124	Pro-GV 52	516934.95	2080923.91	138.91'
125	Pro-GV 53	516924.44	2081066.82	137.00'
126	Pro-GV 54	516795.60	2081197.11	134.44'
127	Pro-GV 55	516771.48	2081016.86	139.18'
128	Pro-GV 56	516795.60	2080849.48	140.02'
129	Pro-GV 57	516776.30	2080712.69	139.62'
130	Pro-GV 58	516755.40	2080546.92	137.02'
131	Pro-GV 59	516584.50	2080515.86	137.25'
132	Pro-GV 60	516596.73	2080706.87	137.39'
133	Pro-GV 61	516634.88	2080886.78	137.81'
134	Pro-GV 62	516613.50	2081072.29	137.38'
135	Pro-GV 63	516628.40	2081255.00	137.68'



HORIZONTAL CONTROL POINT TABLE				
Point #	Northing	Easting	Elevation	Description
1001	517.968.38	2081148.37	125.05'	SIRC 5/8" IRC 3DS CONTROL
1002	517.169.20	2080930.16	139.24'	SIRC 5/8" IRC 3DS CONTROL
1003	516.648.25	2081425.21	123.26'	SIRC 5/8" IRC 3DS CONTROL
1004	516.544.65	2080905.59	133.32'	SIRC 5/8" IRC 3DS CONTROL
1005	516.573.04	2080327.06	122.82'	SIRC 5/8" IRC 3DS CONTROL
1006	517.379.27	2080013.51	96.58'	SIRC 5/8" IRC 3DS CONTROL
1007	517.414.78	2079349.72	110.02'	SIRC 5/8" IRC 3DS CONTROL
1008	517.832.11	2079218.82	126.27'	SIRC 5/8" IRC 3DS CONTROL
1009	517.979.76	2079781.94	142.18'	SIRC 5/8" IRC 3DS CONTROL
1010	517.938.48	2080598.99	140.12'	SIRC 5/8" IRC 3DS CONTROL
1011	518.199.65	2081659.06	67.68'	SND 3DS CONTROL LB

EXISTING DRAINS SCHEDULE				EXISTING DRAINS SCHEDULE RISER SCHEDULE		
Point #	Description	Northing	Easting	Existing Grade Elevation	Description	Final Closure Grade
500	Ex-DRAIN 1	517874.00	2079599.00	135.10'	Ex-DRAIN 1	139.72'
501	Ex-DRAIN 2	517908.00	2079948.00	137.76'	Ex-DRAIN 2	140.37'
502	Ex-DRAIN 3	517899.00	2080196.00	136.51'	Ex-DRAIN 3	140.07'
503	Ex-DRAIN 4	517794.00	2080407.00	141.99'	Ex-DRAIN 4	140.69'
504	Ex-DRAIN 5	517838.00	2080631.00	143.06'	Ex-DRAIN 5	139.46'
505	Ex-DRAIN 6	517853.00	2080899.00	142.11'	Ex-DRAIN 6	138.69'
506	Ex-DRAIN 7	517599.00	2080483.00	142.02'	Ex-DRAIN 7	139.54'
507	Ex-DRAIN 8	517610.00	2080734.00	143.32'	Ex-DRAIN 8	139.97'
508	Ex-DRAIN 9	517406.00	2080713.00	142.33'	Ex-DRAIN 9	140.21'
509	Ex-DRAIN 10	517286.00	2080559.00	141.09'	Ex-DRAIN 10	138.78'

- NOTES:**
- SITE TOPOGRAPHY INSIDE THE LIMITS OF LINER WAS TAKEN FROM SURVEY PROVIDED BY DIVERSIFIED DESIGN & DRAFTING SERVICES, INC. AS ISSUED ON OCTOBER 7, 2015.
  - AERIAL TOPOGRAPHY OUTSIDE THE LIMITS OF LINER FROM AERIAL SURVEY PERFORMED BY PICKETT SURVEYING & PHOTOGRAMMETRY INC. ON JUNE 24, 2014.
  - CLASS I PHASE IIC AND PHASE IIB DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JULY 1992. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.
  - CLASS I PHASE IID DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JUNE 1996. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.
  - CLASS III SOUTH AND WEST DISPOSAL AREA LIMITS WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JUNE 1996. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE EDGE OF DEBRIS PRIOR TO CONSTRUCTION COMMENCEMENT.
  - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
  - THICKNESS OF EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. SUITABILITY OF SUBGRADE SHALL BE VERIFIED BY THE ENGINEER PRIOR GEOMEMBRANE DEPLOYMENT. MINIMUM ONE FOOT OF INTERMEDIATE COVER SHALL BE MAINTAINED PRIOR TO PLACING LINER.
  - CONTRACTOR TO PERFORM PRE CONSTRUCTION SURVEY AS STATED IN THE SPECIFICATIONS.
  - EXISTING LFG SYSTEM COMPONENTS FROM COASTAL ENGINEERING SERVICES SURVEY DATED SEPTEMBER 16, 2008 (JOB NO. 06905), AND PBS&J PLANS DATED APRIL 2006.
  - EXISTING LFG FEATURES ARE TO BE RAISED TO A MINIMUM OF 4-FEET ABOVE FINISHED GRADES (SEE EXISTING GAS EXTRACTION WELL SCHEDULE ON C3.00 LANDFILL GAS SYSTEM) AND TO BE PLUMB WITH HORIZON AT NO ADDITIONAL COST.
  - CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING COLLECTION SYSTEM DURING CONSTRUCTION.
  - ALL GAS SYSTEM APPURTENANCES ENCOUNTERED DURING CONSTRUCTION SHALL BE MODIFIED TO REMAIN OPERABLE ABOVE COVER CLOSURE SYSTEM.

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NO.	DATE	REVISION DESCRIPTION	BY

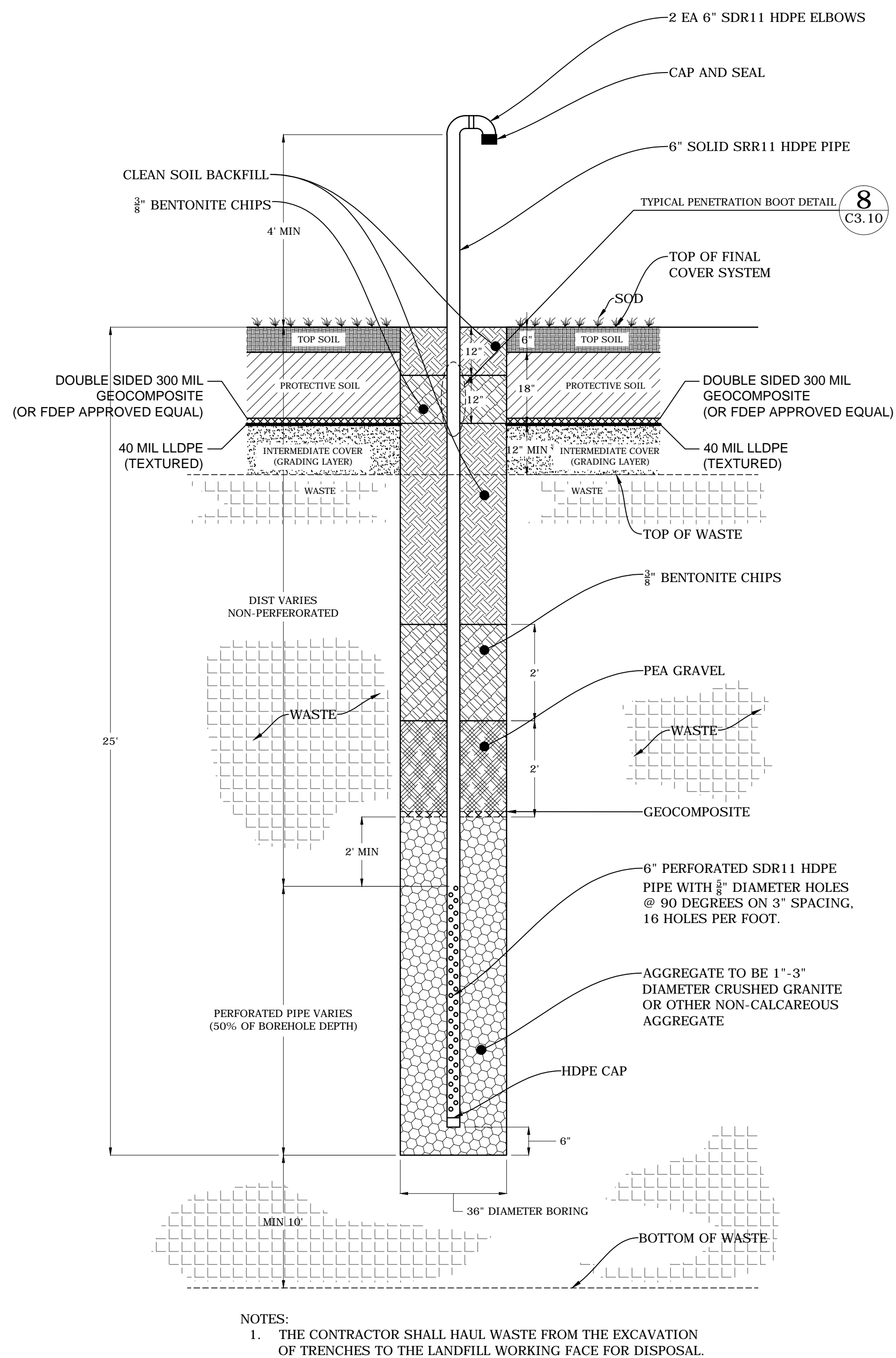
4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066

PROJECT TITLE:  
**LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE**  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER  
DESIGNED BY  
DRAWN BY  
CHECKED BY  
APPROVED BY

SHEET TITLE:  
**LANDFILL GAS SYSTEM**

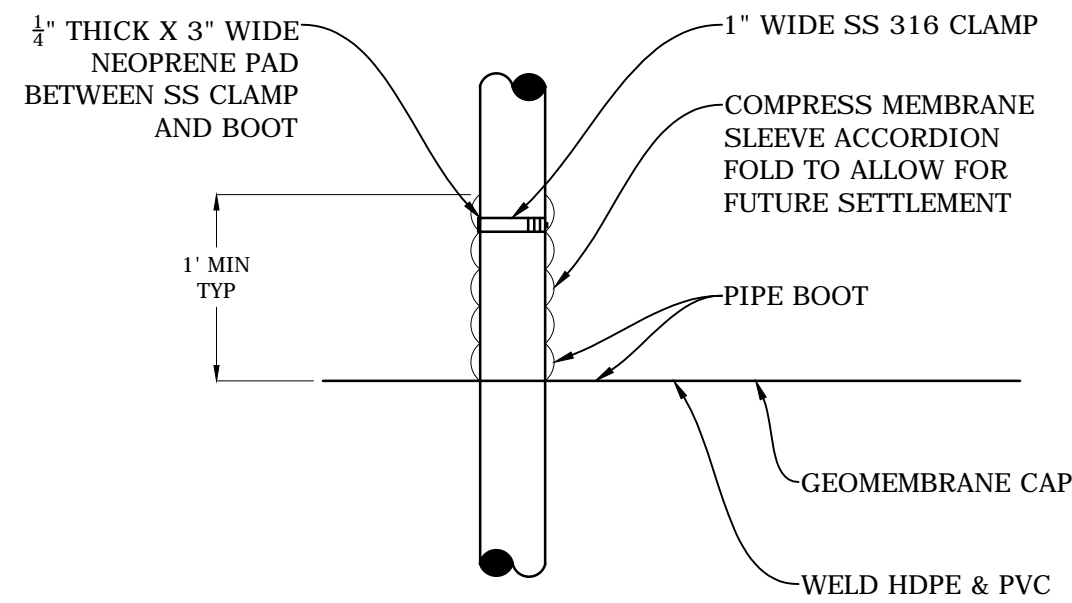
PROJECT NO.:  
07000-173-15  
SCALE:  
AS SHOWN  
DATE:  
NOVEMBER 2016  
DRAWING:  
C3.00



TYPICAL LANDFILL PASSIVE GAS WELL

N.T.S.

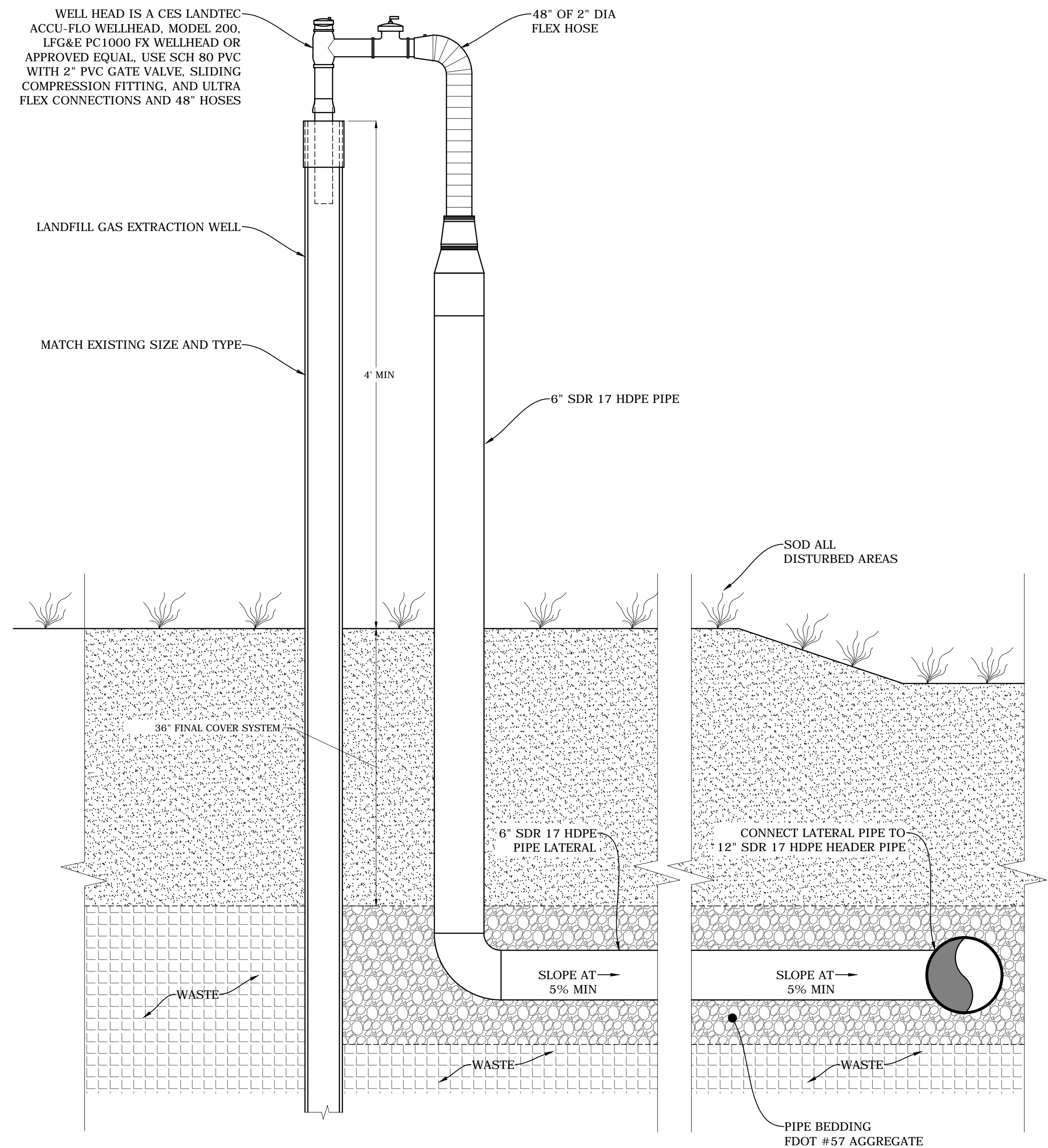
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TYPICAL PENETRATION BOOT DETAIL

N.T.S.

8 C3.10



TYPICAL VERTICAL GAS EXTRACTION WELL EXTENSION

N.T.S.

M C3.10

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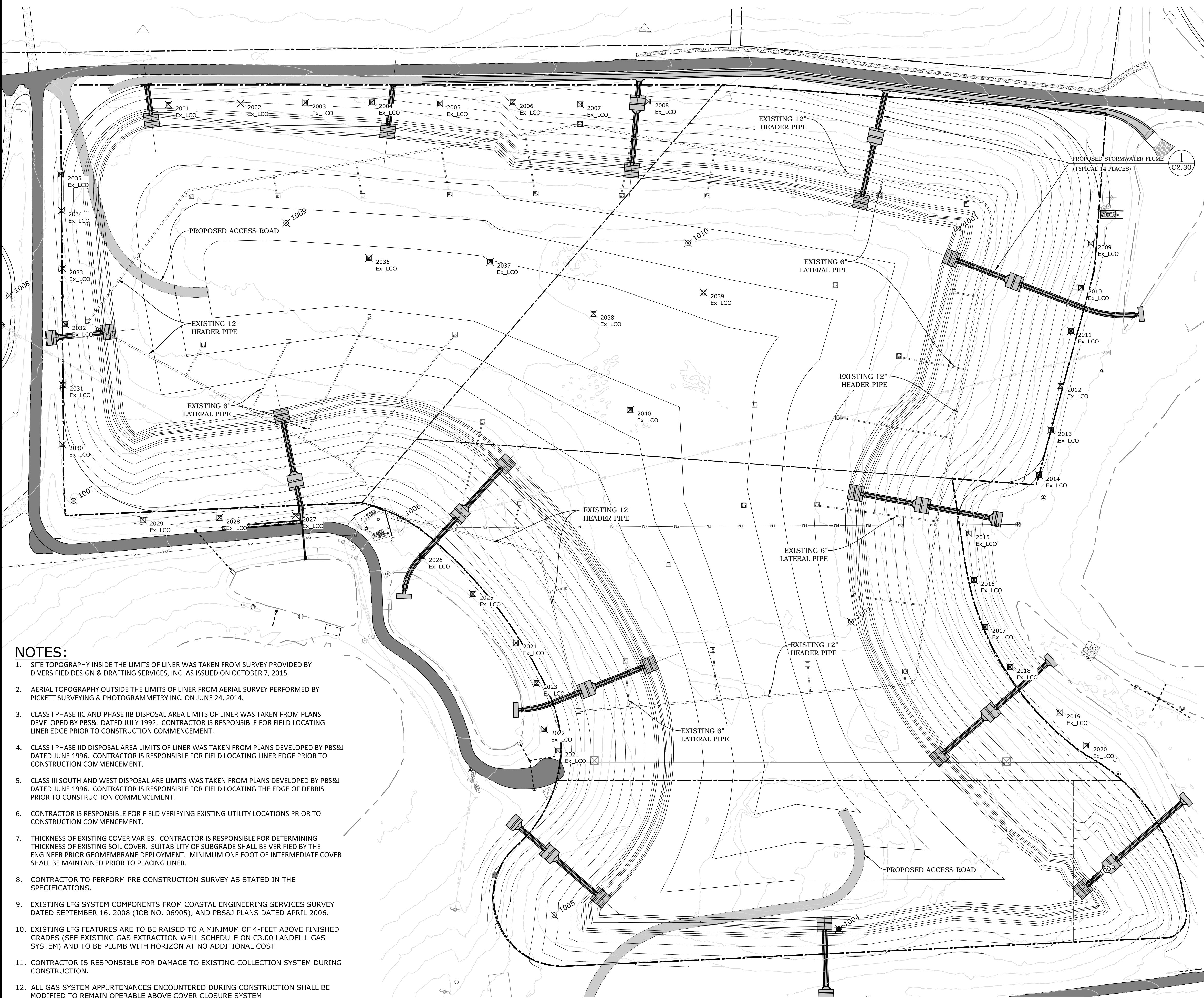
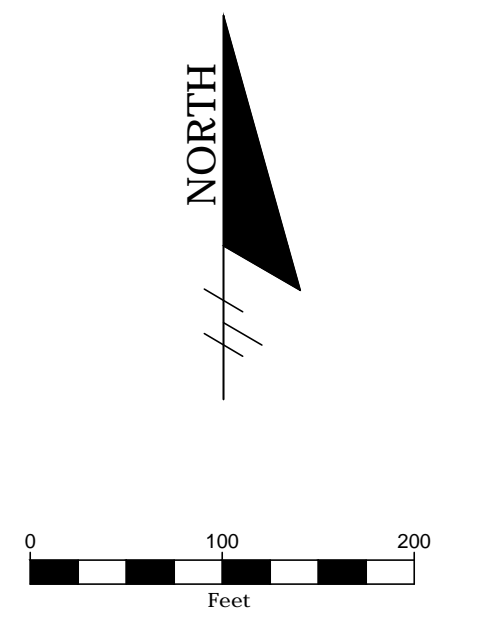


PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

SHEET TITLE:	
LANDFILL GAS SYSTEM CONSTRUCTION DETAILS	
PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C3.10

HORIZONTAL CONTROL POINT TABLE				
Point #	Northing	Easting	Elevation	Description
1001	517968.38	2081148.37	125.05'	SIRC 5/8" IRC 3DS CONTROL
1002	517169.20	2080930.16	139.24'	SIRC 5/8" IRC 3DS CONTROL
1003	516648.25	2081425.21	123.26'	SIRC 5/8" IRC 3DS CONTROL
1004	516544.65	2080905.59	133.32'	SIRC 5/8" IRC 3DS CONTROL
1005	516573.04	2080327.06	122.82'	SIRC 5/8" IRC 3DS CONTROL
1006	517379.27	2080013.51	96.58'	SIRC 5/8" IRC 3DS CONTROL
1007	517414.78	2079349.72	110.02'	SIRC 5/8" IRC 3DS CONTROL
1008	517832.11	2079218.82	126.27'	SIRC 5/8" IRC 3DS CONTROL
1009	517979.76	2079781.94	142.18'	SIRC 5/8" IRC 3DS CONTROL
1010	517938.48	2080598.99	140.12'	SIRC 5/8" IRC 3DS CONTROL
1011	518199.65	2081659.06	67.68'	SND 3DS CONTROL LB



EXISTING LEACHATE CLEANOUTS SCHEDULE					EXISTING LEACHATE CLEANOUTS RISER SCHEDULE	
Point #	Description	Northing	Easting	Existing Grade Elevation	Description	Final Closure Elevation
2001	Ex-LCO 1	518219.91	2079542.84	117.49'	Ex-LCO 1	133.10'
2002	Ex-LCO 2	518222.33	2079689.27	115.15'	Ex-LCO 2	130.74'
2003	Ex-LCO 3	518224.01	2079820.66	112.13'	Ex-LCO 3	128.76'
2004	Ex-LCO 4	518224.82	2079956.31	109.96'	Ex-LCO 4	127.01'
2005	Ex-LCO 5	518222.18	2080094.42	106.88'	Ex-LCO 5	123.99'
2006	Ex-LCO 6	518224.98	2080242.38	104.23'	Ex-LCO 6	114.03'
2007	Ex-LCO 7	518220.65	2080379.79	101.97'	Ex-LCO 7	110.00'
2008	Ex-LCO 8	518226.41	2080517.82	100.27'	Ex-LCO 8	110.00'
2009	Ex-LCO 9	517937.83	2081418.00	80.26'	Ex-LCO 9	81.54'
2010	Ex-LCO 10	517848.07	2081398.24	79.32'	Ex-LCO 10	80.91'
2011	Ex-LCO 11	517759.99	2081377.57	78.89'	Ex-LCO 11	80.11'
2012	Ex-LCO 12	517648.61	2081356.19	78.19'	Ex-LCO 12	79.51'
2013	Ex-LCO 13	517558.36	2081337.09	77.95'	Ex-LCO 13	79.46'
2014	Ex-LCO 14	517467.33	2081312.79	77.55'	Ex-LCO 14	80.00'
2015	Ex-LCO 15	517348.54	2081169.96	89.07'	Ex-LCO 15	89.82'
2016	Ex-LCO 16	517254.19	2081180.38	88.96'	Ex-LCO 16	89.77'
2017	Ex-LCO 17	517158.59	2081203.26	90.78'	Ex-LCO 17	92.21'
2018	Ex-LCO 18	517077.32	2081253.25	91.36'	Ex-LCO 18	92.51'
2019	Ex-LCO 19	516984.55	2081354.70	91.64'	Ex-LCO 19	91.64'
2020	Ex-LCO 20	516917.56	2081408.62	92.68'	Ex-LCO 20	92.68'
2021	Ex-LCO 21	516907.27	2080334.69	94.27'	Ex-LCO 21	94.27'
2022	Ex-LCO 22	516950.75	2080306.52	92.15'	Ex-LCO 22	92.15'
2023	Ex-LCO 23	517044.51	2080291.17	93.20'	Ex-LCO 23	92.94'
2024	Ex-LCO 24	517126.67	2080249.51	91.75'	Ex-LCO 24	95.20'
2025	Ex-LCO 25	517225.76	2080161.27	92.63'	Ex-LCO 25	92.63'
2026	Ex-LCO 26	517302.44	2080057.94	92.15'	Ex-LCO 26	92.15'
2027	Ex-LCO 27	517384.80	2079800.97	93.28'	Ex-LCO 27	95.21'
2028	Ex-LCO 28	517380.63	2079646.09	96.02'	Ex-LCO 28	101.71'
2029	Ex-LCO 29	517376.49	2079490.31	101.55'	Ex-LCO 29	103.30'
2030	Ex-LCO 30	517529.93	2079326.89	111.43'	Ex-LCO 30	111.43'
2031	Ex-LCO 31	517650.70	2079327.64	114.33'	Ex-LCO 31	115.39'
2032	Ex-LCO 32	517774.01	2079332.76	118.35'	Ex-LCO 32	119.40'
2033	Ex-LCO 33	517886.76	2079327.03	119.56'	Ex-LCO 33	120.94'
2034	Ex-LCO 34	518005.19	2079325.30	120.86'	Ex-LCO 34	123.52'
2035	Ex-LCO 35	518078.06	2079323.95	121.52'	Ex-LCO 35	123.78'
2036	Ex-LCO 36	517908.14	2079950.23	137.72'	Ex-LCO 36	140.37'
2037	Ex-LCO 37	517900.76	2080196.56	136.46'	Ex-LCO 37	140.04'
2038	Ex-LCO 38	517795.03	2080406.79	142.07'	Ex-LCO 38	140.68'
2039	Ex-LCO 39	517838.29	2080630.59	143.07'	Ex-LCO 39	139.46'
2040	Ex-LCO 40	517599.89	2080481.65	142.02'	Ex-LCO 40	139.54'

**LEGEND**  
**EXISTING LEACHATE CLEANOUTS**  
 Point Number  
 Ex-LCO #

- NOTES:**
- SITE TOPOGRAPHY INSIDE THE LIMITS OF LINER WAS TAKEN FROM SURVEY PROVIDED BY DIVERSIFIED DESIGN & DRAFTING SERVICES, INC. AS ISSUED ON OCTOBER 7, 2015.
  - AERIAL TOPOGRAPHY OUTSIDE THE LIMITS OF LINER FROM AERIAL SURVEY PERFORMED BY PICKETT SURVEYING & PHOTOGRAMMETRY INC. ON JUNE 24, 2014.
  - CLASS I PHASE IIC AND PHASE IIB DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JULY 1992. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.
  - CLASS I PHASE IID DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JUNE 1996. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.
  - CLASS III SOUTH AND WEST DISPOSAL ARE LIMITS WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JUNE 1996. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE EDGE OF DEBRIS PRIOR TO CONSTRUCTION COMMENCEMENT.
  - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
  - THICKNESS OF EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. SUITABILITY OF SUBGRADE SHALL BE VERIFIED BY THE ENGINEER PRIOR GEOMEMBRANE DEPLOYMENT. MINIMUM ONE FOOT OF INTERMEDIATE COVER SHALL BE MAINTAINED PRIOR TO PLACING LINER.
  - CONTRACTOR TO PERFORM PRE CONSTRUCTION SURVEY AS STATED IN THE SPECIFICATIONS.
  - EXISTING LFG SYSTEM COMPONENTS FROM COASTAL ENGINEERING SERVICES SURVEY DATED SEPTEMBER 16, 2008 (JOB NO. 06905), AND PBS&J PLANS DATED APRIL 2006.
  - EXISTING LFG FEATURES ARE TO BE RAISED TO A MINIMUM OF 4- FEET ABOVE FINISHED GRADES (SEE EXISTING GAS EXTRACTION WELL SCHEDULE ON C3.00 LANDFILL GAS SYSTEM) AND TO BE PLUMB WITH HORIZON AT NO ADDITIONAL COST.
  - CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING COLLECTION SYSTEM DURING CONSTRUCTION.
  - ALL GAS SYSTEM APPURTENANCES ENCOUNTERED DURING CONSTRUCTION SHALL BE MODIFIED TO REMAIN OPERABLE ABOVE COVER CLOSURE SYSTEM.

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NO.	DATE	REVISION DESCRIPTION	BY

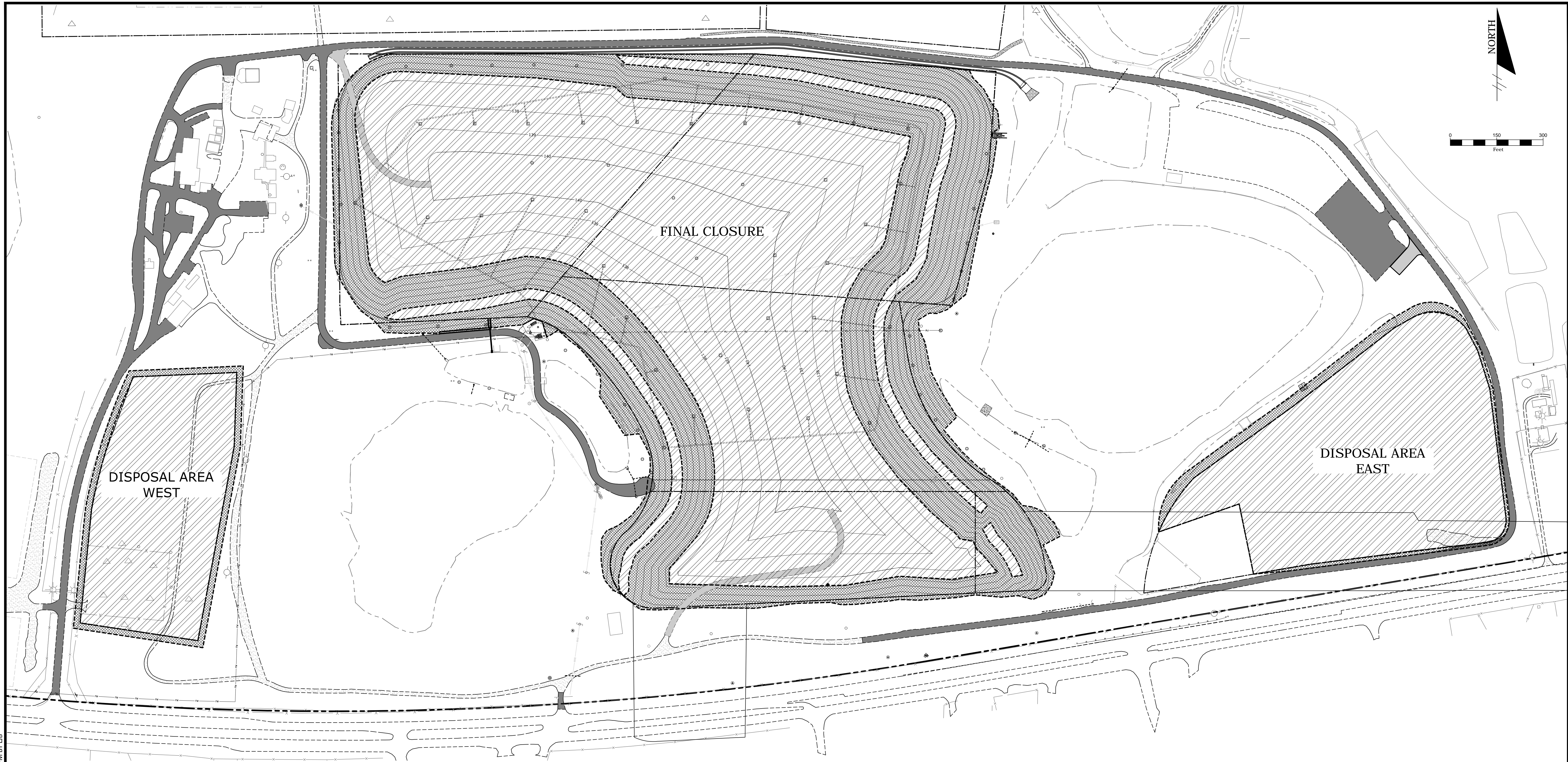
4140 NW 37th Place, Suite A  
 Gainesville, Florida 32606  
 Phone: 352.672.6867 Fax: 352.692.5390  
 Certificate of Authorization No. 30066

PROJECT TITLE:  
**LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
 CLASS I AND CLASS III LANDFILL CLOSURE**  
 TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LJB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LJB

SHEET TITLE:  
**EXISTING LEACHATE CLEANOUT LOCATIONS**

PROJECT NO.:	07000-173-15
SCALE:	AS SHOWN
DATE:	NOVEMBER 2016
DRAWING:	C4.00



DISPOSAL AREA WEST		FINAL CLOSURE		DISPOSAL AREA EAST	
332,400 S.F. HYDROSEED	50,000 S.F. SOD	1,795,800 S.F. HYDROSEED	1,085,000 S.F. SOD	547,800 S.F. HYDROSEED	53,400 S.F. SOD

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NO.	DATE	REVISION DESCRIPTION	BY



4140 NW 37th Place, Suite A  
Gainesville, Florida 32606  
Phone: 352.672.6867 Fax: 352.692.5390  
Certificate of Authorization No. 30066



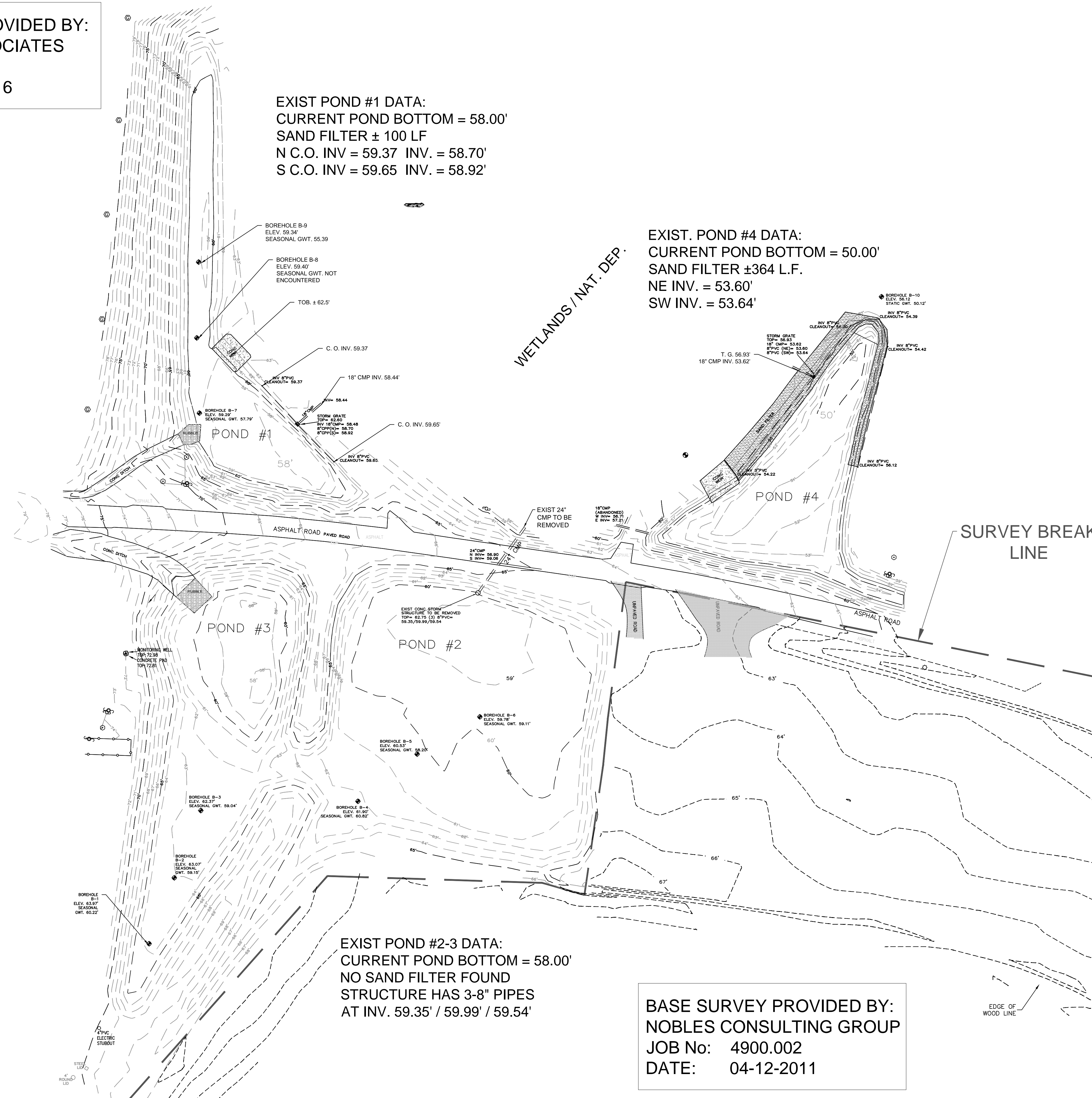
PROJECT TITLE:  
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY  
CLASS I AND CLASS III LANDFILL CLOSURE  
TALLAHASSEE, LEON COUNTY, FLORIDA

LISA J. BAKER	DESIGNED BY	LIB
	DRAWN BY	MAF
	CHECKED BY	JDL
FL PE NO. 74652	APPROVED BY	LIB

SHEET TITLE:  
**SOD AND HYDROSEED STABILIZATION  
PLAN AND QUANTITIES**

PROJECT NO.:  
07000-173-15  
SCALE:  
AS SHOWN  
DATE:  
NOVEMBER 2016  
DRAWING:  
C5.00

BASE SURVEY PROVIDED BY:  
A.D. PLATT & ASSOCIATES  
JOB No: 12134  
DATE: 03-28-2016

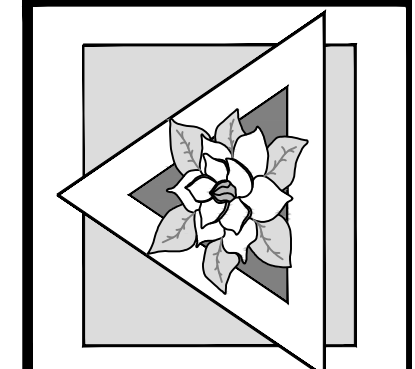


**NOTE:**  
ANY EXCESS FILL MATERIAL TO BE STOCKPILED ON SITE AS DIRECTED BY LEON COUNTY.

**LEGEND**

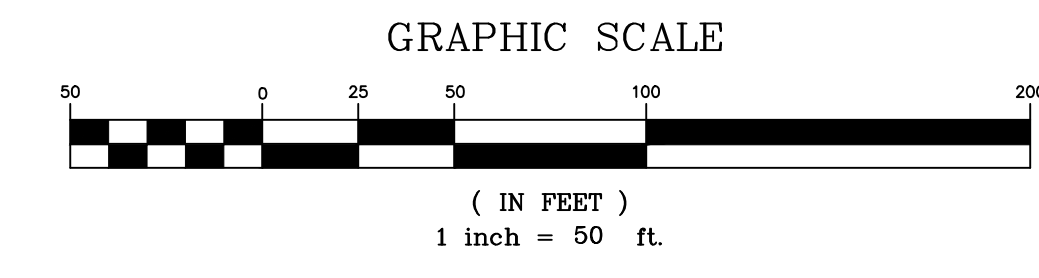
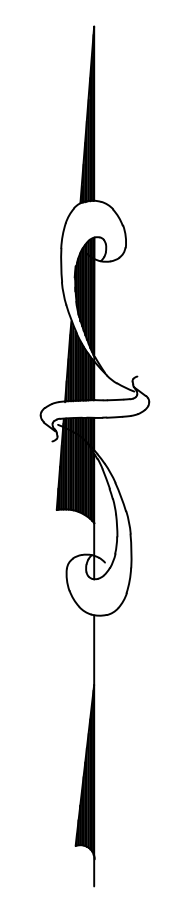
- EXISTING A.D. PLATT CONTOUR (2016)
- EXISTING NOBLES CONTOUR (2011)
- SURVEY BREAK LINE
- BORING LOCATION
- EXISTING RIPRAP
- EXISTING CONCRETE
- EXISTING SAND FILTER

**Magnolia Engineering LLC**  
3551 BLAIR STONE ROAD, SUITE 128-275  
TALLAHASSEE, FLORIDA 32301  
PHONE (850) 385-0203  
FLA. CA NO. 29844 / GA. CA NO. 006756  
WWW.MAGNOLIAENGINEERING.COM



REVISED BY	DATE	COMMENTS
1		
2		
3		
4		
5		
6		
7		
8		

PROJECT	LEON COUNTY LANDFILL
TITLE	EXISTING CONDITIONS
CLIENT	LEON COUNTY
DESIGNED BY	SWK
DRAWN BY	SWK
CHECKED BY	CBG
DATE	06-29-2016
SCALE	1" = 50'

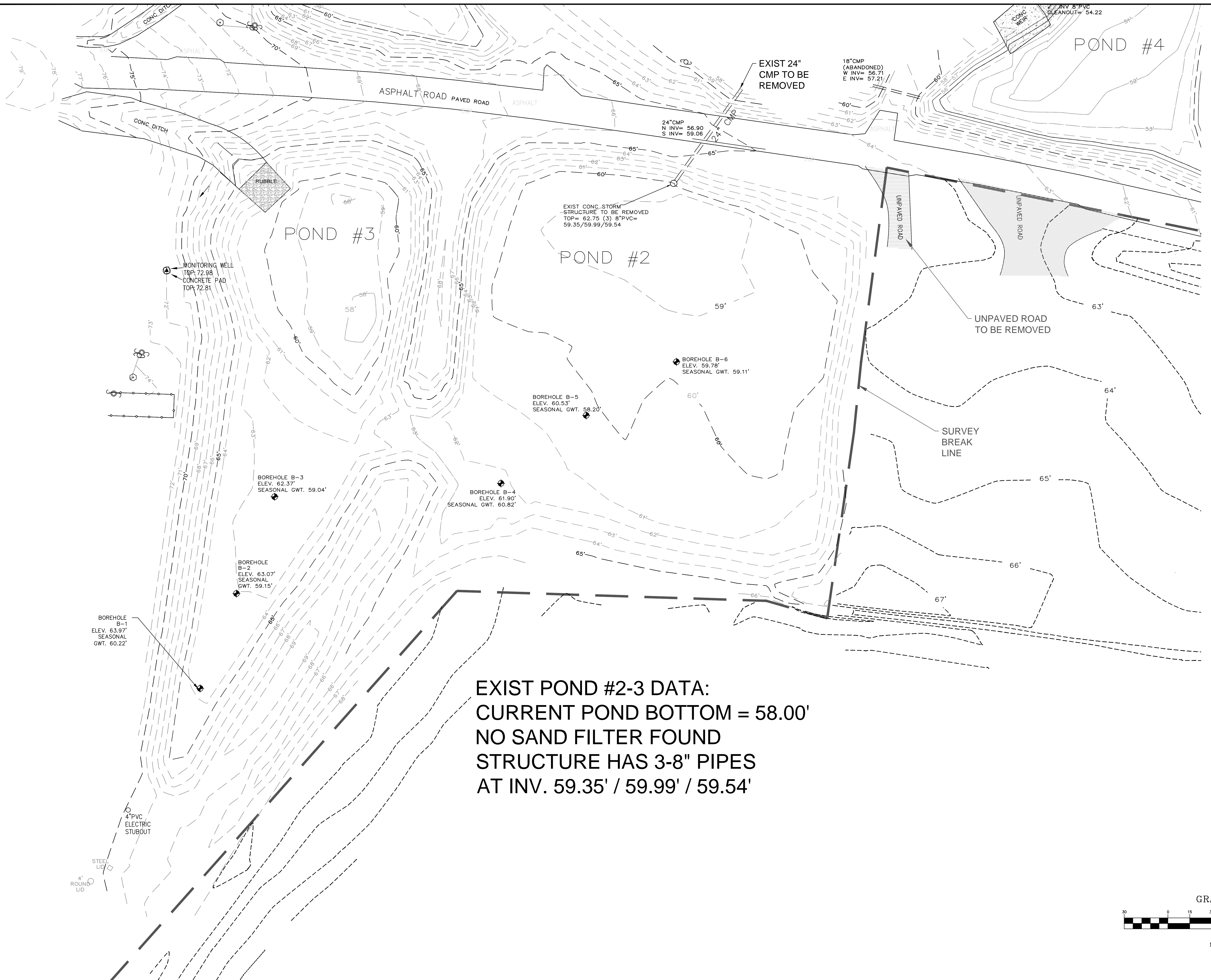


BASE SURVEY PROVIDED BY:  
NOBLES CONSULTING GROUP  
JOB No: 4900.002  
DATE: 04-12-2011

Courtesy of the Florida Department of Transportation, State of Florida  
FLA. PE. NO. 44969 / GA. PE. NO. 51823

**PROJECT NUMBER**  
ME14015  
**SHEET NUMBER**  
C - 1

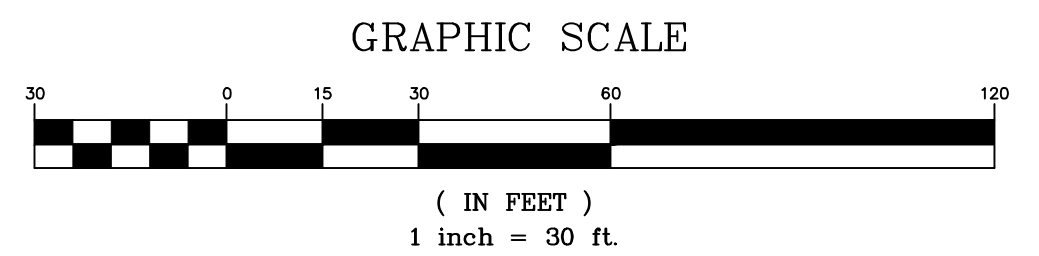
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**LEGEND**

- EXISTING A.D. PLATT CONTOUR (2016)
- EXISTING NOBLES CONTOUR (2011)
- SURVEY BREAK LINE
- BORING LOCATION
- EXISTING RIPRAP
- EXISTING CONCRETE
- EXISTING SAND FILTER
- EXISTING UNPAVED ROAD

**EXIST POND #2-3 DATA:**  
 CURRENT POND BOTTOM = 58.00'  
 NO SAND FILTER FOUND  
 STRUCTURE HAS 3-8" PIPES  
 AT INV. 59.35' / 59.99' / 59.54'



**Magnolia Engineering LLC**

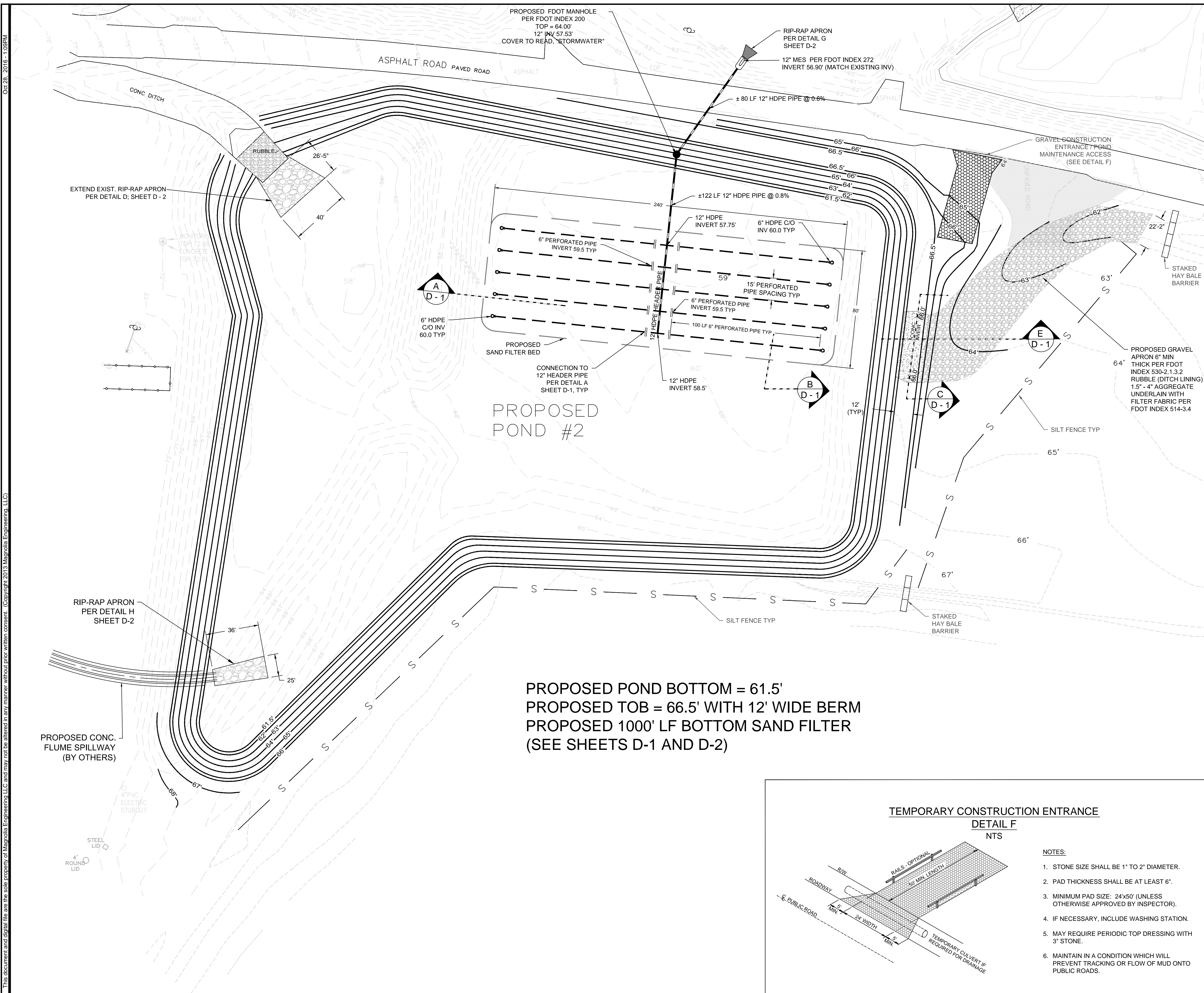
3551 BLAIR STONE ROAD, SUITE 128-275  
 TALLAHASSEE, FLORIDA 32301  
 PHONE (850) 385-0203  
 FLA. CA NO. 29844 / GA. CA NO. 006756  
 WWW.MAGNOLIAENGINEERING.COM

REVISED BY	DATE	COMMENTS

PROJECT	LEON COUNTY LANDFILL
TITLE	EXISTING PONDS 2 & 3
CLIENT	LEON COUNTY
DESIGNED BY	SWK
DRAWN BY	SWK
CHECKED BY	CBG
DATE	06-29-2016
SCALE	1" = 30'

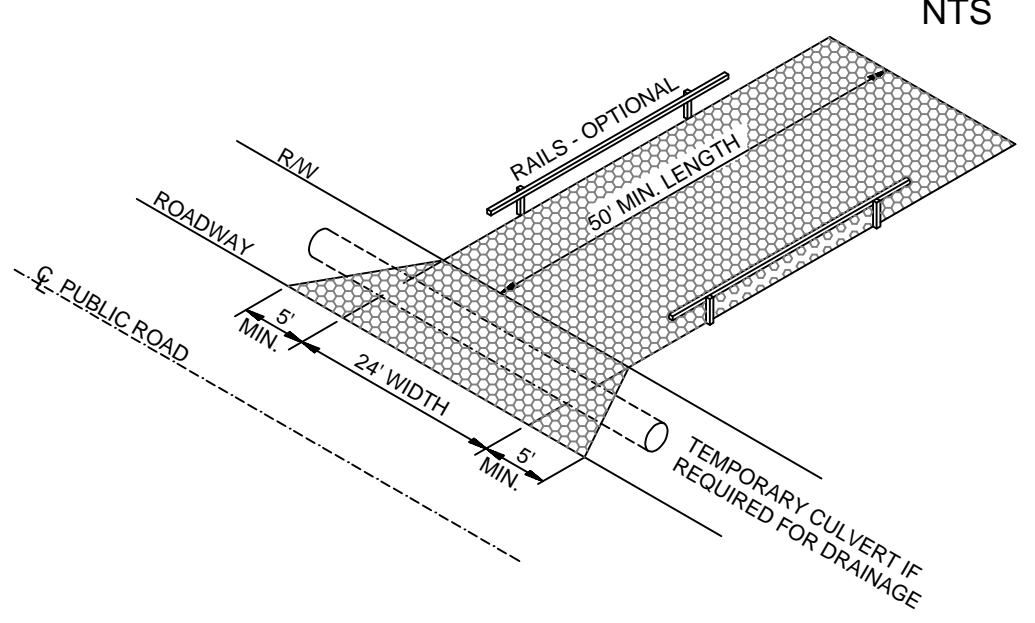
COUNTY OF LEON, FLORIDA  
 FLA. P.E. NO. 44969 (GA. P.E. NO. 31823)  
 Magnolia Engineering, LLC  
 FLA. CA. NO. 29844 / GA. CA. NO. 006756

PROJECT NUMBER	ME14015
SHEET NUMBER	C - 2



PROPOSED POND BOTTOM = 61.5'  
 PROPOSED TOB = 66.5' WITH 12' WIDE BERM  
 PROPOSED 1000' LF BOTTOM SAND FILTER  
 (SEE SHEETS D-1 AND D-2)

TEMPORARY CONSTRUCTION ENTRANCE  
 DETAIL F  
 NTS



- NOTES:**
- STONE SIZE SHALL BE 1" TO 2" DIAMETER.
  - PAD THICKNESS SHALL BE AT LEAST 6".
  - MINIMUM PAD SIZE: 24'x50' (UNLESS OTHERWISE APPROVED BY INSPECTOR).
  - IF NECESSARY, INCLUDE WASHING STATION.
  - MAY REQUIRE PERIODIC TOP DRESSING WITH 3" STONE.
  - MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.

INSPECTIONS AND SEQUENCE OF CONSTRUCTION

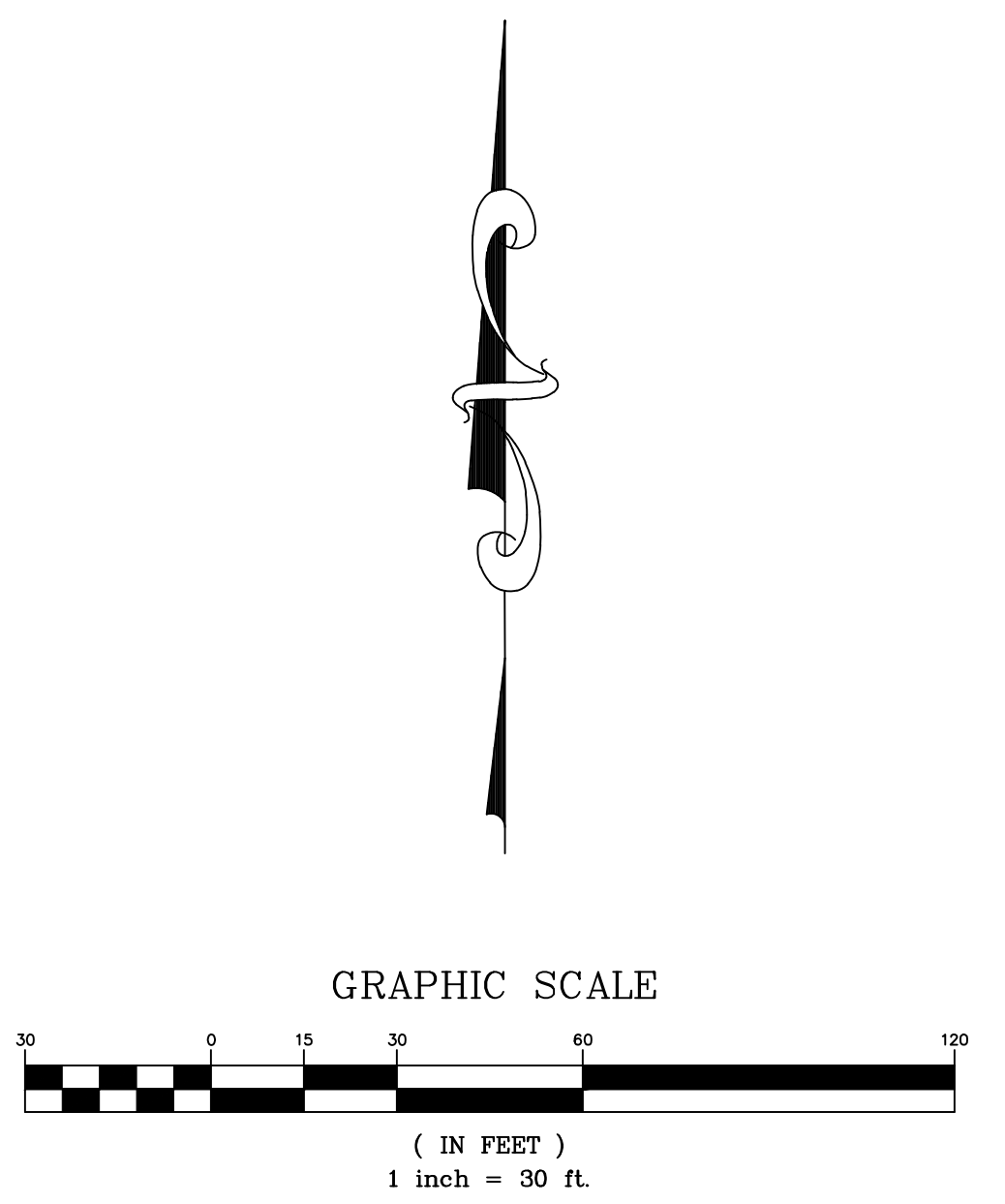
- THE SEQUENCE OF CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY, SUBJECT TO THE FOLLOWING REQUIREMENTS, AND ANY SPECIAL PERMIT CONDITIONS:
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD AT THE SITE WITH THE COUNTY INSPECTOR AND ENGINEER PRIOR TO ANY CLEARING OR CONSTRUCTION.
  - PRIOR TO CLEARING THE SITE, THE CONTRACTOR SHALL CONSTRUCT THE SEDIMENTATION/EROSION CONTROLS. CLEARING SHALL NOT COMMENCE UNTIL EROSION CONTROL DEVICES HAVE BEEN INSPECTED AND APPROVED BY THE LOCAL PERMITTING AUTHORITY. THE INSPECTOR MAY REQUIRE ADDITIONAL CONTROLS AT ANY TIME DURING CONSTRUCTION TO ENSURE THAT SEDIMENTS ARE ADEQUATELY CONTROLLED.
  - THE CONTRACTOR SHALL PROTECT THE POND DURING CONSTRUCTION, AND USE BEST MANAGEMENT PRACTICES TO PREVENT SEDIMENTS AND FINES FROM CLOGGING THE POND BOTTOM AND SAND FILTERS. THESE MAY INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCING AND HAY BALE BARRIERS WHERE RUNOFF ENTERS THE POND, AND PROVIDING A POLYETHYLENE BARRIER OR SIMILAR COVER OVER THE SAND FILTER. ANY DAMAGE TO THE PONDS DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - THE CONTRACTOR SHALL USE ANY MEANS NECESSARY TO ENSURE THAT EROSION AND SEDIMENTATION CONTROLS FUNCTION PROPERLY. THIS MAY INCLUDE THE INSTALLATION OF DIVERSION BERMS OR CHANNELS TO DIRECT RUNOFF TO THE SILTATION BASIN. CONTROLS SHALL BE INSPECTED AND MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD.
  - WHEN ALL GRADING AND COMPACTION WORK IS COMPLETE AND THE FACILITIES HAVE BEEN CONSTRUCTED, ALL DISTURBED AREAS WILL BE STABILIZED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
  - THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIVE SETS OF AS-BUILT DRAWINGS FOR THE PURPOSE OF FILING THE AS-BUILT COMPLIANCE REPORT. THE AS-BUILT DRAWINGS SHALL SHOW THE IMPROVEMENTS IN SUFFICIENT DETAIL TO DETERMINE COMPLIANCE WITH THE PERMITS, INCLUDING CONTOURS AND SPOT ELEVATIONS AS NECESSARY. THE ENGINEER SHALL VERIFY THAT THE POND MEETS THE PERMIT REQUIREMENTS. IF THERE IS INSUFFICIENT VOLUME IN THE POND, OR IF THE POND DOES NOT MEET THE PERMIT REQUIREMENTS FOR ANY OTHER REASON, IT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

**LEGEND**

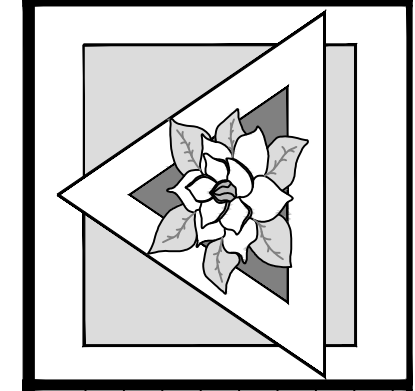
---	EXISTING A.D. PLATT CONTOUR (2016)
---	EXISTING NOBLES CONTOUR (2011)
---	PROPOSED CONTOUR
---	PROPOSED 6" PERF. PIPE
---	PROPOSED 12" NON PERF. PIPE
S	SILT FENCE
[Symbol]	HAY BALES
[Symbol]	EXISTING UNPAVED ROAD
[Symbol]	EXISTING RIPRAP
[Symbol]	PROPOSED SAND FILTER
[Symbol]	PROPOSED CONCRETE
[Symbol]	PROPOSED RIPRAP
[Symbol]	PROPOSED CONSTRUCTION ENTRANCE

GENERAL CONSTRUCTION NOTES:

- ALL MATERIAL REMOVED FROM POND SHALL BE STOCKPILED IN AN AREA DESIGNATED BY THE OWNER. IF STOCKPILES ARE TO REMAIN LONGER THAN 14 DAYS THEY SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH.
- CONTRACTOR SHALL COOPERATE WITH OTHER TRADES WORKING ON SITE AS NEEDED TO ENSURE THAT ALL WORK REQUIRED FOR CLOSURE OF THE LANDFILL IS SATISFACTORILY COMPLETED.



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 FLA. CA NO. 29844 / GA. CA NO. 006756  
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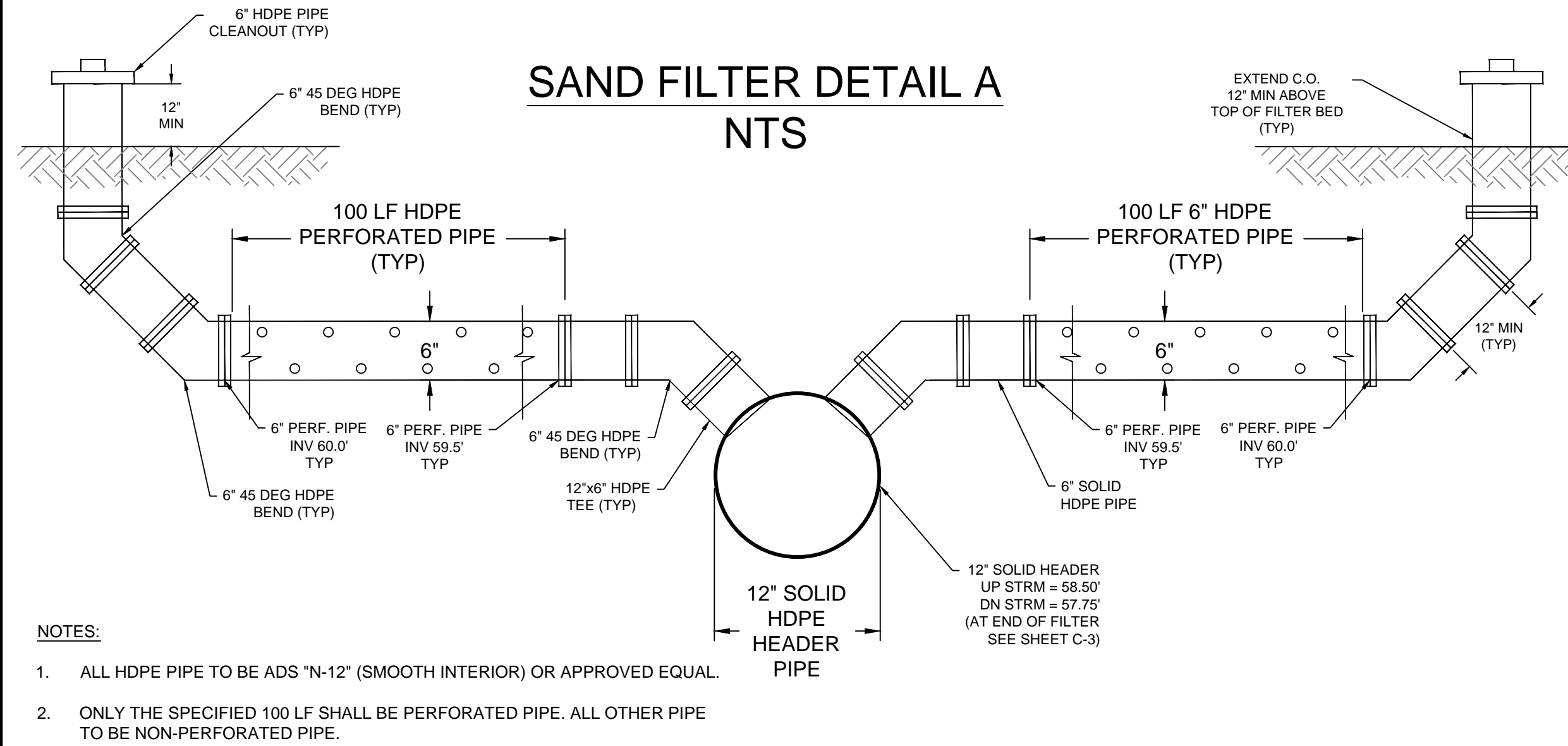


REVISED BY	DATE	COMMENTS
1 SWK	10-29-2016	PER COUNTY COMMENTS
2		
3		
4		
5		
6		

PROJECT	LEON COUNTY LANDFILL
TITLE	PROPOSED POND 2
CLIENT	LEON COUNTY
DESIGNED BY	SWK
DRAWN BY	SWK
CHECKED BY	CBG
DATE	06-29-2016
SCALE	1" = 30'
PROJECT NUMBER	ME14015
SHEET NUMBER	C-3

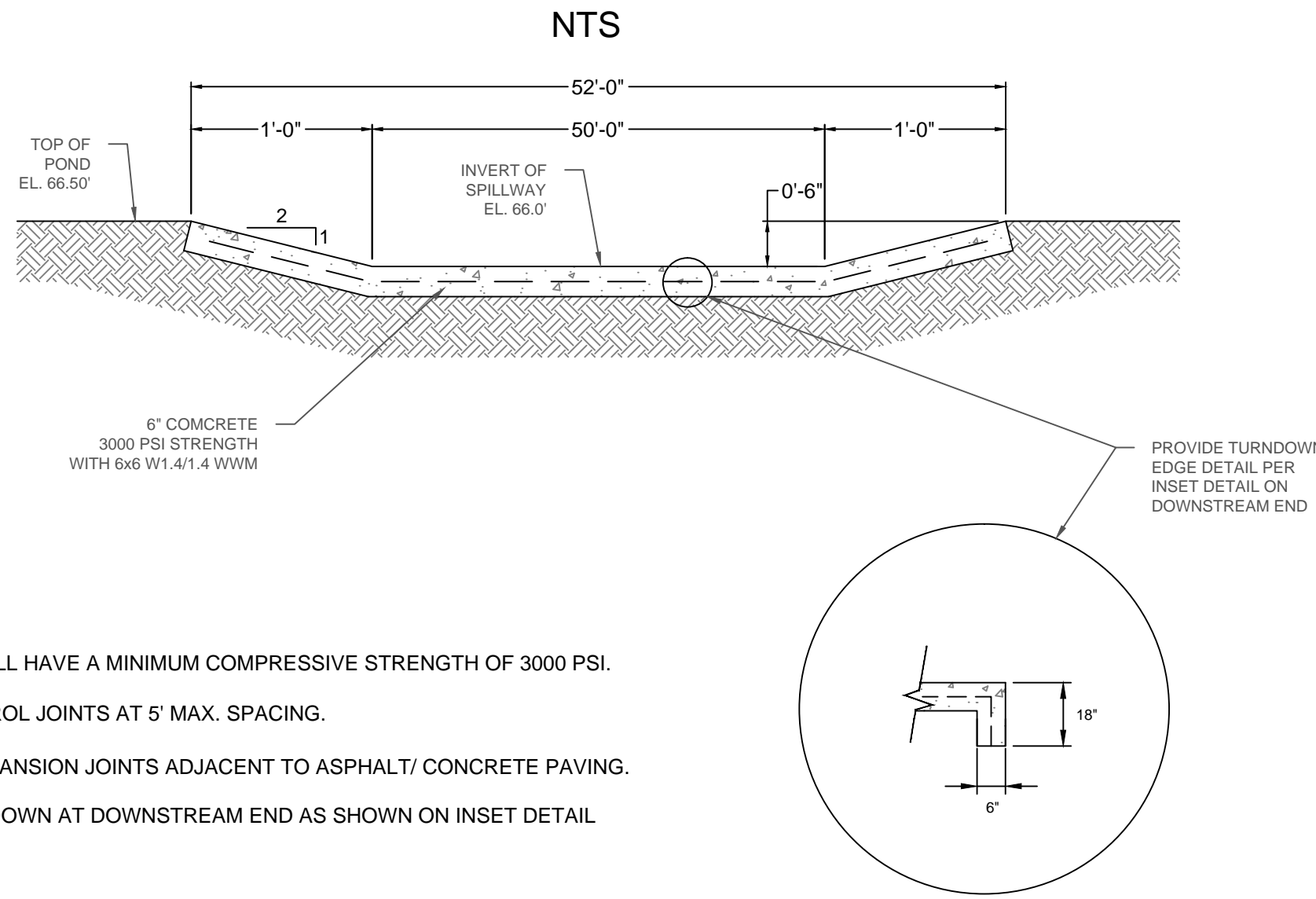
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 Oct 28, 2016 - 1:09PM

Oct 28, 2016 - 1:03PM



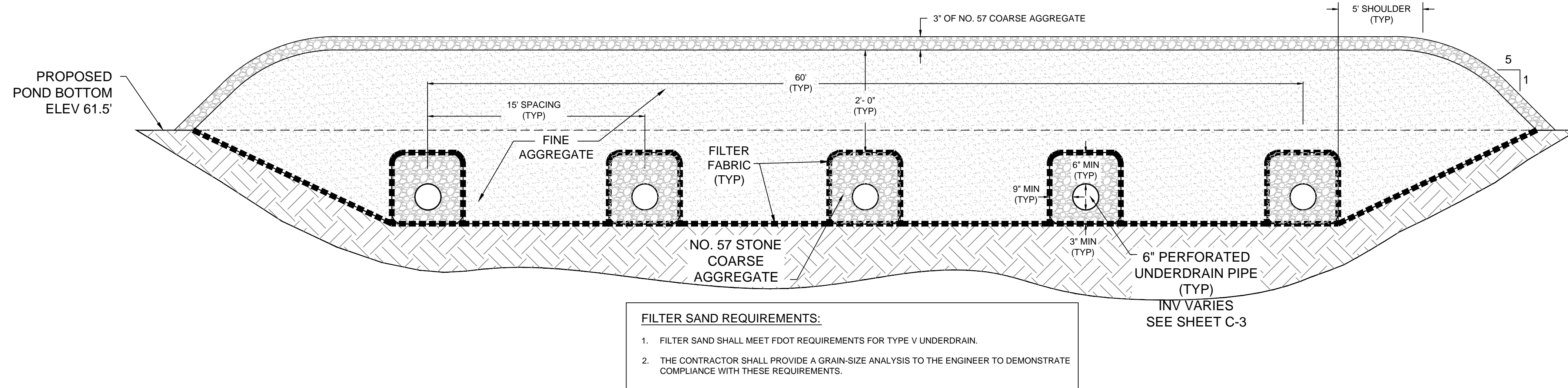
- NOTES:**
- ALL HDPE PIPE TO BE ADS "N-12" (SMOOTH INTERIOR) OR APPROVED EQUAL.
  - ONLY THE SPECIFIED 100 LF SHALL BE PERFORATED PIPE. ALL OTHER PIPE TO BE NON-PERFORATED PIPE.

### OVERFLOW SPILLWAY TYPICAL SECTION C



- NOTES:**
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - PROVIDE CONTROL JOINTS AT 5' MAX. SPACING.
  - PROVIDE 1/2" EXPANSION JOINTS ADJACENT TO ASPHALT/ CONCRETE PAVING.
  - PROVIDE TURNDOWN AT DOWNSTREAM END AS SHOWN ON INSET DETAIL.

### SAND FILTER DETAIL B NTS



#### SAND FILTER - GENERAL NOTES

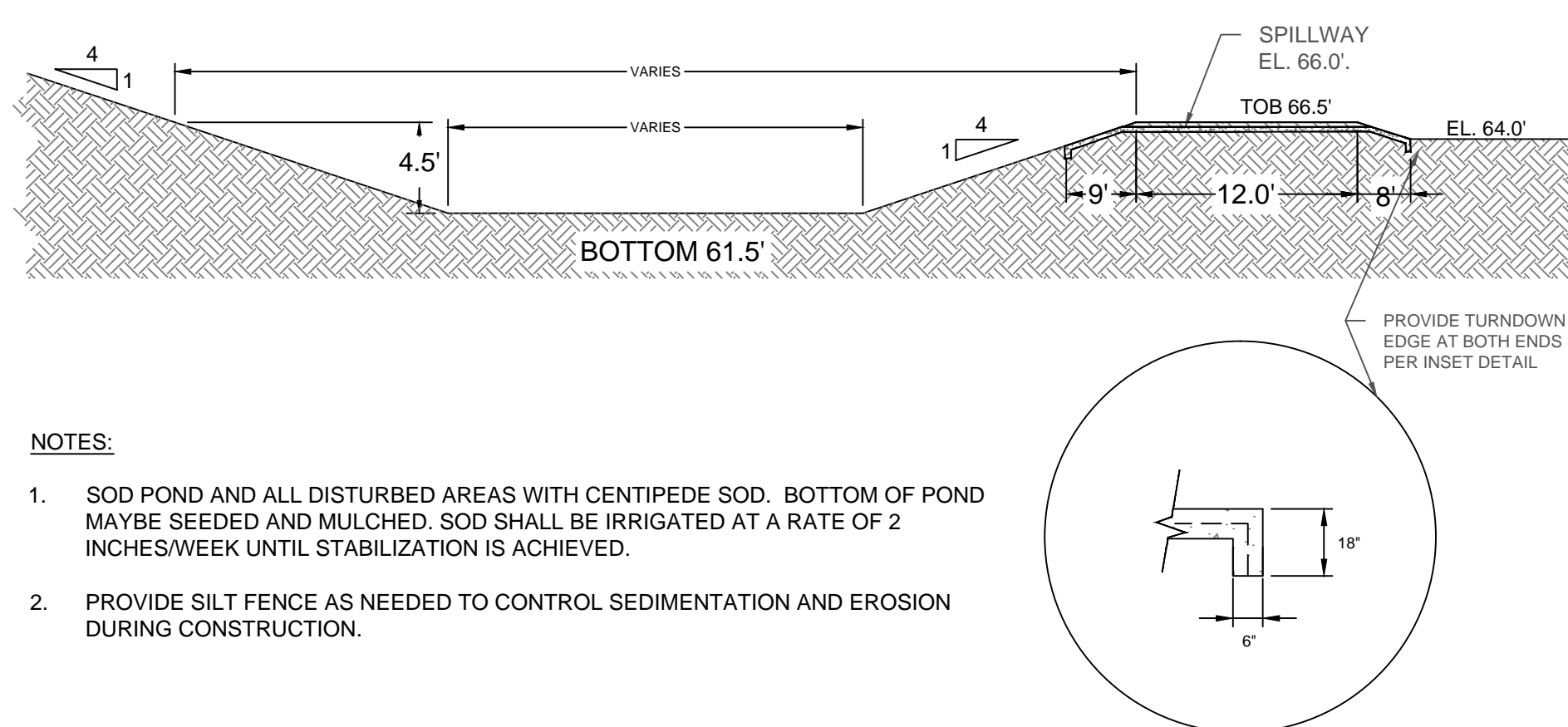
- THE UNDERDRAIN PIPE SHALL BE PERFORATED 6" DIAMETER SMOOTH WALL HDPE PIPE MEETING AASHTO M252 UNLESS OTHERWISE SHOWN IN THE PLANS.
- FINE AGGREGATE SHALL BE QUARTZ SAND MEETING THE REQUIREMENTS OF SECTIONS 902-4 OF THE FDOT STANDARD SPECIFICATIONS. CONTRACTOR SHALL PROVIDE GRAIN-SIZE ANALYSIS FOR PROPOSED SAND FILTER TO THE REGISTERED PROFESSIONAL ENGINEER PRIOR TO INSTALLATION.
- COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF FDOT SECTIONS 901-2 OR 901-3. THE GRADATION SHALL MEET SECTION 901, GRADES 4, 467, 5, 56, OR 57 STONE UNLESS OTHERWISE SHOWN ON THE PLANS.
- CONSTRUCTION OF SAND FILTERS SHALL MEET THE APPLICABLE REQUIREMENTS OF FDOT SECTION 440.
- FILTER FABRIC SHALL BE TYPE D-3 PER FDOT INDEX NO. 199. THE INTERNAL FILTER FABRIC OF TYPE V UNDERDRAINS SHALL HAVE A PERMITTIVITY OF 0.7/SEC AND AN A.O.S. OF # 40 SIEVE.
- ALL FILTER FABRIC JOINTS SHALL OVERLAP A MINIMUM OF 1'. THE INTERNAL FILTER FABRIC OF THE SAND FILTER SHALL OVERLAP INTO THE COARSE AGGREGATE OR THE FINE AGGREGATE A MINIMUM OF 1'.
- UNDERDRAIN OUTLET PIPES SHALL BE NON-PERFORATED AND ALL BENDS SHALL BE MADE USING 1/8 (45 DEG.) ELBOWS. 90 DEG BENDS SHALL BE CONSTRUCTED WITH TWO 1/8 ELBOWS SEPARATED BY A LEAST 1' OF STRAIGHT PIPE.
- THE CONTRACTOR SHALL PROVIDE A GRAIN-SIZE ANALYSIS TO THE ENGINEER TO DEMONSTRATE COMPLIANCE WITH THESE REQUIREMENTS.

#### STORM WATER MAINTENANCE

THE FOLLOWING ARE MINIMUM MAINTENANCE REQUIREMENTS FOR THE STORM WATER MANAGEMENT FACILITIES. A DETAILED MAINTENANCE PLAN SHALL BE PROVIDED BY THE ENGINEER AT THE TIME OF AS-BUILT CERTIFICATION. THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE STORM WATER FACILITIES IN ACCORDANCE WITH THE OPERATING PERMIT AND THE MAINTENANCE PLAN.

- ALL GRASSED AREAS SHALL BE MOVED EVERY TWO WEEKS DURING THE GROWING SEASON, OR AS NEEDED. PONDS SHALL BE MAINTAINED FREE OF WEEDS AND OTHER UNDESIRABLE VEGETATION. IF THE POND HAS BEEN LANDSCAPED, CARE SHALL BE TAKEN TO PRESERVE THE LANDSCAPE VEGETATION.
- ALL SLOPES, DITCHES AND SWALES SHALL BE PERIODICALLY INSPECTED FOR EROSION, INCLUDING AFTER EACH MAJOR RAINFALL EVENT. AT A MINIMUM, THE SITE SHALL BE CHECKED ON A QUARTERLY BASIS, AND ANY NEEDED REPAIRS MADE. ANY WASHED-OUT OR ERODED AREAS SHALL BE REPAIRED BY REPLACING AND COMPACTING FILL AS REQUIRED TO RETURN THEM TO THEIR ORIGINAL CONDITION. FOLLOWING COMPACTION, THESE AREAS SHALL BE SODDED. IF NECESSARY, THE SOD SHALL BE STAKED. PERSISTENT WASHOUTS MAY REQUIRE THE INSTALLATION OF AN EROSION CONTROL BLANKET OR OTHER MEANS TO ACHIEVE STABILIZATION.
- STORM WATER GRATES, PIPES, CULVERTS, AND OTHER CONVEYANCES SHALL BE CHECKED AFTER EACH MAJOR STORM EVENT FOR BLOCKAGE, AND CLEARED IF NECESSARY.
- ALL TRASH, SEDIMENTS, LEAF LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM PONDS, SWALES AND OTHER STORM WATER FACILITIES ON A QUARTERLY BASIS, OR AS NEEDED AFTER EACH MAJOR RAINFALL EVENT.
- SEDIMENTS SHALL BE REMOVED FROM CONVEYANCES, INCLUDING PIPES AND DITCHES, AT LEAST ONCE A YEAR, TAKING CARE NOT TO DAMAGE ANY LANDSCAPE PLANTINGS.
- THE PERCOLATION AREA (BOTTOM) OF PONDS AND SWALES SHALL BE CHECKED PERIODICALLY. FOLLOWING THE REMOVAL OF SEDIMENTS AND FINES, THE POND BOTTOM MAY BE SCARIFIED TO OPEN VOIDS IN THE SOIL AND ENHANCE PERCOLATION. IF THE POND DOES NOT DRAIN AS DESIGNED, CONTACT THE ENGINEER FOR ADDITIONAL SOLUTIONS.
- SAND FILTERS SHALL BE INSPECTED PERIODICALLY. IF THE POND IS NOT DRAINING AS DESIGNED, THE SAND FILTER MAY BE CLOGGED. SAND FILTERS SHALL BE REPLACED AS NEEDED TO KEEP THE POND FUNCTIONING IN ACCORDANCE WITH THE PERMIT REQUIREMENTS.

### STORMWATER POND TYPICAL SECTION E NTS



- NOTES:**
- SOD POND AND ALL DISTURBED AREAS WITH CENTIPEDE SOD. BOTTOM OF POND MAYBE SEEDED AND MULCHED. SOD SHALL BE IRRIGATED AT A RATE OF 2 INCHES/ WEEK UNTIL STABILIZATION IS ACHIEVED.
  - PROVIDE SILT FENCE AS NEEDED TO CONTROL SEDIMENTATION AND EROSION DURING CONSTRUCTION.

#### GENERAL NOTES

- THESE DRAWINGS AND ANY RELATED SPECIFICATIONS SHALL BE CONSIDERED PRELIMINARY UNTIL ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED.
- ALL MATERIALS, PRODUCTS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE SPECIFIED HEREIN.
- ALL WORK SHALL BE PERFORMED BY CONTRACTORS LICENSED IN THE STATE OF FLORIDA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THESE DRAWINGS AND ALL APPLICABLE PERMITS AND LICENSES.
- CONSTRUCTION SHALL BEGIN WHEN AUTHORIZED BY THE OWNER, AND WHEN ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ANY SCHEDULES SET FORTH IN THE PERMITS OR REQUIRED BY THE OWNER.
- ON-SITE SAFETY SHALL BE THE CONTRACTOR'S RESPONSIBILITY. OPEN EXCAVATIONS AND OTHER ON-SITE HAZARDS SHALL BE PROPERLY MARKED WITH WARNING BARRICADES, FENCES AND OTHER MEANS AS NECESSARY TO PREVENT A SAFETY HAZARD. COMPLY WITH ALL REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTION. THE FINAL LAYOUT AND ALIGNMENT OF ALL BUILDINGS, ROADS, PARKING AREAS AND OTHER FACILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE ENGINEER SHALL BE CONTACTED REGARDING ANY NEEDED CLARIFICATIONS PRIOR TO BEGINNING CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LAYOUT AND ALIGNMENT OF FACILITIES AFTER CONSTRUCTION HAS COMMENCED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY ENTRANCE FOR USE BY CONSTRUCTION VEHICLES. THE ENTRANCE SHALL CONSIST OF GRAVEL AS SHOWN ON THE DETAILS. TRACKING OF DIRT AND DEBRIS ONTO ANY CITY, COUNTY OR STATE ROADS IS PROHIBITED.
- PRIOR TO CLEARING THE SITE, EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND PERMIT REQUIREMENTS. CONTROLS SHALL BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. COMPLY WITH THE REQUIREMENTS OF THE NPDES POLLUTION PREVENTION PLAN, IF APPLICABLE.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY REGARDING ANY APPARENT CONFLICTS, DISCREPANCIES OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE PROPOSED IMPROVEMENTS BASED ON FIELD CONDITIONS IF NECESSARY.
- THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES RESPONSIBLE FOR WATER, SEWER, STORM WATER AND ELECTRICAL UTILITIES AS REQUIRED BY PERMIT TO COORDINATE UTILITY WORK. FOR WORK IN MUNICIPAL, COUNTY AND STATE RIGHT-OF-WAYS, THE RESPONSIBLE AUTHORITY SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL FLORIDA" AT (800) 432-4770 TO LOCATE UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- THE LIMITS OF CONSTRUCTION SHOWN ON THE DRAWINGS SHALL BE STRICTLY OBSERVED. ALL INGRESS, EGRESS, MATERIALS LAYOUT AND STORAGE, AND CONSTRUCTION ACTIVITIES SHALL BE WITHIN THE LIMITS OF CONSTRUCTION.
- UNLESS OTHERWISE SPECIFIED, ALL CONSTRUCTION SHALL COMPLY WITH FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, LATEST EDITION.
- THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, MAILBOXES, DRAINAGE CULVERTS, FENCES, LANDSCAPING, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THIS INFORMATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE ENGINEER SHALL BE CONTACTED IMMEDIATELY REGARDING ANY CONFLICTS OR CONDITIONS NOT SHOWN ON THE DRAWINGS. THESE SHALL NOT CONSTITUTE EXTRA WORK, UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ENGINEER AND THE OWNER.
- THE INFORMATION IN THE DRAWINGS AND SPECIFICATIONS, AND ANY RELATED DOCUMENTS SUCH AS SOILS REPORTS, IS PROVIDED SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE SCOPE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. PRIOR TO BIDDING, ALL CONTRACTORS SHALL CONDUCT WHATEVER INVESTIGATIONS THEY FEEL ARE NECESSARY REGARDING THE ACTUAL CONDITIONS AT THE SITE, UPON WHICH THEIR BIDS SHALL BE BASED.
- THE GRADING PLAN PROVIDED DOES NOT NECESSARILY REPRESENT A "BALANCED SITE". ANY EXCESS MATERIAL SHALL BE STOCKPILED ON SITE AT A LOCATION DESIGNATED BY THE OWNER.
- UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THE DRAWINGS MAY BE ENLARGED IN SCALE FOR CLARITY. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AS NOTED ABOVE. PIPE LENGTHS SHOWN ON THE DRAWINGS SHALL BE ASSUMED TO BE APPROXIMATE, AND SHALL BE ADJUSTED IN THE FIELD AS NECESSARY.
- COMMON FILL SHALL BE CLASSIFIED AS A-1, A-2, A-3 PER AASHTO DESIGNATION M 145, AND SHALL BE FREE OF VEGETATION, STONES, ORGANIC MATTER, AND ANY FOREIGN MATERIAL. NO MORE THAN 20 PERCENT OF THE FILL, BY WEIGHT, SHALL PASS THE NO. 200 SIEVE. MATERIALS CLASSIFIED AS A-2.5, A-2.6, A-2.7, A-4, A-5, A-6, A-7 AND A-8 SHALL BE CONSIDERED UNSATISFACTORY FOR USE AS FILL. UNDER NO CIRCUMSTANCES SHALL MATERIALS WITH GREATER THAN 20 PERCENT PASSING THE NO. 200 SIEVE, BY WEIGHT, BE USED AS FILL MATERIAL FOR STORM WATER PONDS, UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.
- COMPACTION OF FILL SHALL COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. SOILS AND COMPACTION TESTING SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
- ALL CONSTRUCTIONS MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS OTHERWISE STATED IN THE DRAWINGS AND SPECIFICATIONS, OR DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS SHALL BE STABILIZED FOLLOWING CONSTRUCTION. THIS SHALL BE ACCOMPLISHED BY SODDING WITH CENTIPEDE SOD UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL SEEDED AND SODDED AREAS UNTIL SATISFACTORY STABILIZATION IS ACHIEVED. ANY ERODED OR WASHED-OUT AREAS SHALL BE REPAIRED AND RE-SODDED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ENGINEER AS NEEDED TO ENSURE ACCEPTANCE OF THE "AS-BUILT" PROJECT BY PERMITTING AUTHORITIES. STORM WATER FACILITIES MUST BE IN COMPLIANCE WITH ALL PERMIT REQUIREMENTS. IF APPLICABLE, THE OWNER OR OWNER'S REPRESENTATIVE SHALL APPLY FOR A STORM WATER OPERATION AND MAINTENANCE PERMIT PRIOR TO OCCUPYING THE NEW FACILITIES.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- THE ENGINEER MAY PROVIDE LIMITED CONSTRUCTION OBSERVATION SERVICES TO ENSURE GENERAL COMPLIANCE WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, IN ACCORDANCE WITH THE ENGINEER'S CONTRACT WITH THE OWNER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DAY-TO-DAY INSPECTION OF THE WORK, OR FOR ENSURING COMPLIANCE WITH PERMITS AND REGULATIONS.
- THE DRAWINGS AND SPECIFICATIONS HAVE BEEN ENGINEERED SPECIFICALLY FOR THIS PROJECT. THEY SHALL NOT BE REUSED FOR ANY OTHER SITE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER.

#### TESTING AND COMPACTION REQUIREMENTS

- FILL AND BACKFILL SHALL BE TESTED BY AN APPROVED AASHTO TESTING METHOD TO DETERMINE THE MODIFIED PROCTOR DRY DENSITY AND/OR GRAIN SIZE.
- TEST RESULTS SHALL BE PROVIDED TO THE CITY INSPECTOR AND THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE, STRUCTURES, BUILDING FOUNDATIONS, PAVEMENTS, OR OTHER MATERIALS.
- THIS SPECIFICATION SETS FORTH THE MINIMUM TESTING REQUIREMENTS. ADDITIONAL TESTS MAY BE REQUIRED BY THE ENGINEER OR INSPECTOR TO DEMONSTRATE COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- IF ADDITIONAL TESTING IS REQUIRED BY THE PLANS, SPECIFICATIONS, OR GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT, THE MOST RESTRICTIVE TESTING REQUIREMENTS SHALL GOVERN.
- STRUCTURES: A MINIMUM OF THREE COMPACTION TESTS PER EACH 2000 FT2 OF FILL LIFT SHALL BE REQUIRED UNDER STRUCTURES, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR INSPECTOR. A FILL LIFT SHALL BE A MAXIMUM OF 12 INCHES IN THICKNESS.
- OTHER AREAS: A MINIMUM OF ONE TEST PER EACH 2500 FT2 OF FILL LIFT SHALL BE REQUIRED, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR INSPECTOR. A FILL LIFT SHALL BE A MAXIMUM OF 12 INCHES IN THICKNESS.
- UTILITIES: PROVIDE ONE TEST FOR EVERY 400 LF OF PIPELINE AND 12' LIFT OF FILL ALONG PIPELINE AND UTILITY TRENCHES.
- MANHOLES: PROVIDE ONE TEST FOR EACH 12 INCH LIFT AT EACH MANHOLE.
- EXCEPTIONS:
- A COMPACTION TEST WILL NOT BE REQUIRED WHEN THE FILL IS LESS THAN 12 INCHES IN DEPTH, UNLESS SPECIFICALLY REQUIRED BY THE INSPECTOR OR ENGINEER.
- WHEN THE FILL IS 12" TO 18" IN DEPTH, COMPACTION TESTS WILL BE REQUIRED IF DEEMED NECESSARY BY THE INSPECTOR OR ENGINEER.
- WHEN THE DEPTH OF FILL IS 18 INCHES IN DEPTH OR MORE, COMPACTION TESTING WILL BE REQUIRED FOR EACH LIFT OF FILL.

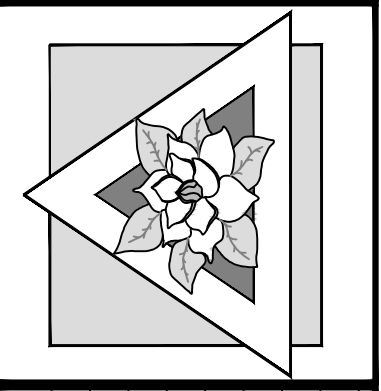
#### COMPACTION REQUIREMENTS

- UNLESS OTHERWISE SPECIFIED, SOIL SHALL BE COMPACTED TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH AASHTO T-180 (MODIFIED PROCTOR). MAXIMUM THICKNESS OF FILL LIFTS SHALL BE 12 INCHES.
- STRUCTURES: COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL TO AT LEAST 95 PERCENT MAXIMUM DRY DENSITY. THIS REQUIREMENT SHALL APPLY TO A DISTANCE OF 6' OUTSIDE OF THE PERIMETER OF BUILDINGS.
  - ASPHALT AND CONCRETE PAVEMENTS: COMPACT SUBGRADE TO 98 PERCENT MAXIMUM DRY DENSITY. COMPLY WITH THE BEARING REQUIREMENTS SHOWN ON THE DETAILS.
  - RETAINING WALLS: COMPACTION REQUIREMENTS SHALL BE AS INDICATED ON THE RETAINING WALL DETAILS, BUT IN NO CASE LESS THAN 95 PERCENT MAXIMUM DRY DENSITY.
  - SIDEWALKS, STEPS AND WALKWAYS: COMPACT SUBGRADE TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY.
  - LAWNS, UNPAVED, AND NON-STRUCTURAL AREAS: COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL TO A MINIMUM OF 90 PERCENT MAXIMUM DRY DENSITY.
  - UTILITIES: COMPACTION AND TESTING FOR PIPING FOR THE CITY OF TALLAHASSEE, TALQUIN ELECTRIC COOPERATIVE, AND OTHER UTILITIES SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THAT UTILITY AUTHORITY.
  - OTHER PIPING: COMPACTION FOR PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. AT A MINIMUM, COMPACTION FOR SEWER AND STORM WATER PIPES SHALL MEET THE FOLLOWING REQUIREMENTS:
    - IN SITU DENSITY AT PIPE ENVELOPE: 95%
    - BACKFILL (OUTSIDE OF PAVEMENT AREAS): TO A DENSITY EQUAL TO THAT OF THE SURROUNDING SOIL (90% MIN).

#### FILL MATERIAL

- SATISFACTORY MATERIALS: COMMON FILL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2.4 PER AASHTO DESIGNATION M 145 AND SHALL BE FREE OF VEGETATION AND ORGANIC MATTER. NOT MORE THAN 20 PERCENT BY WEIGHT SHALL PASS THE NUMBER 200 SIEVE.
- UNSATISFACTORY MATERIALS: MATERIALS CLASSIFIED AS A-2.5, A-2.6, A-2.7, A-4, A-5, A-6, A-7, AND A-8 PER AASHTO DESIGNATION M 145 SHALL BE CONSIDERED AS UNSATISFACTORY FOR USE AS FILL MATERIAL. UNDER NO CIRCUMSTANCES SHALL MATERIALS WITH GREATER THAN 20 PERCENT BY WEIGHT PASSING THE NUMBER 200 SIEVE BE USED AS FILL IN STORM WATER PONDS UNLESS OTHERWISE SPECIFIED.
- UNUSABLE MATERIALS: ANY ORGANIC MATTER, CLAY SOILS OR OTHER UNSUITABLE MATERIALS UNDER A PIPE, FOUNDATION OR STRUCTURE SHALL BE REMOVED PRIOR TO CONSTRUCTION, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR INSPECTOR.

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REVISED BY	DATE	COMMENTS
1	10-28-16	PER COUNTY COMMENTS
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PROJECT	LEON COUNTY LANDFILL
TITLE	NOTE AND DETAIL SHEET (1/2)
CLIENT	LEON COUNTY
DESIGNED BY	SWK
CHECKED BY	CBG
DRAWN BY	SWK
DATE	06-29-2016
SCALE	NTS
PROJECT NUMBER	ME14015
SHEET NUMBER	D - 1

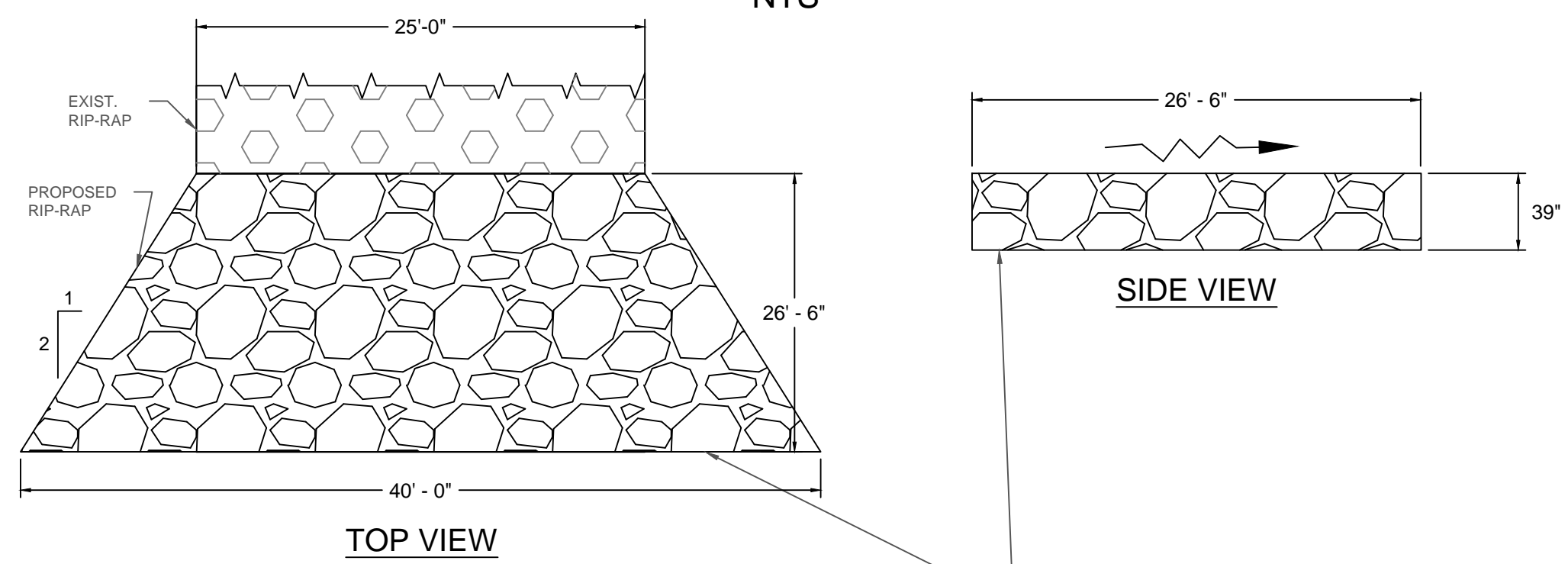
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Oct 28, 2016 - 1:04PM

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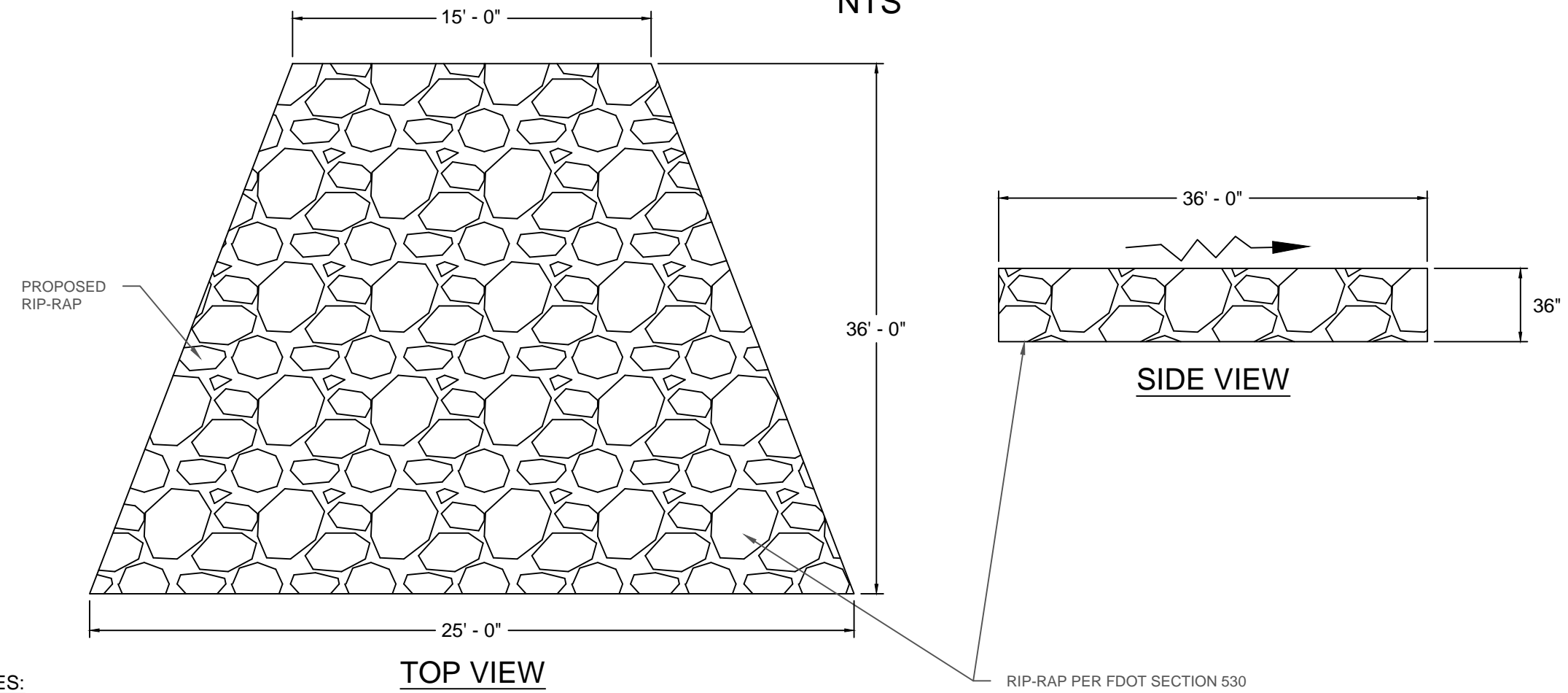
### RIP-RAP PAD DETAIL D NTS



**NOTES:**

- EXIST. RIP-RAP APRON TO BE EXTENDED APPROX. 26' - 6" AS SHOWN. REPAIR / REPLACE ANY PORTION OF EXIST. RIP-RAP APRON DISTURBED DURING CONSTRUCTION AS NEEDED.
- RIP-RAP SHALL BE CONCRETE RUBBLE OR BROKEN STONE MEETING THE REQUIREMENTS OF FDOT SECTION 530-2.1.3.1 RUBBLE (BANK AND SHORE PROTECTION).
- THICKNESS OF RIP-RAP APRON SHALL BE AT LEAST 39".
- RIP-RAP TO BE UNDERLAIN BY FILTER FABRIC PER FDOT INDEX 514-3.4

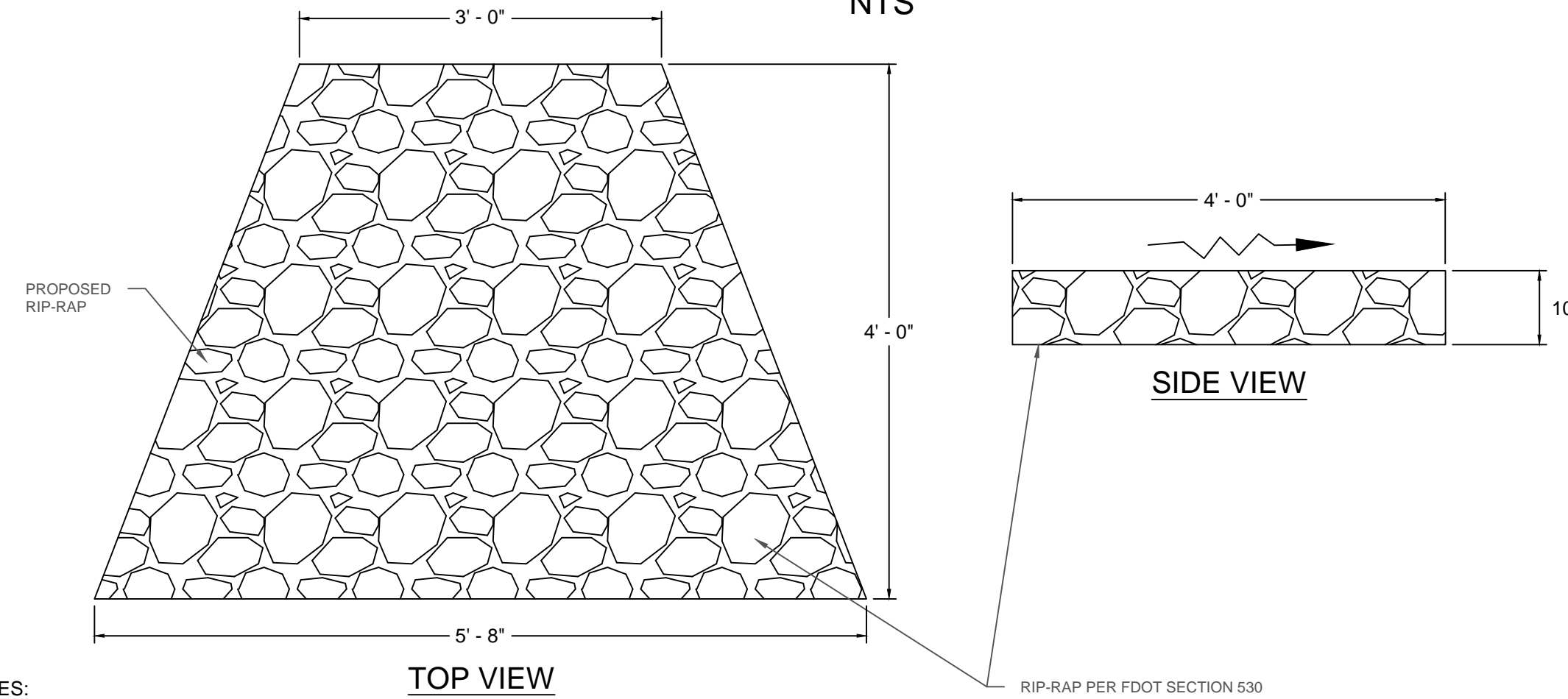
### RIP-RAP PAD DETAIL H NTS



**NOTES:**

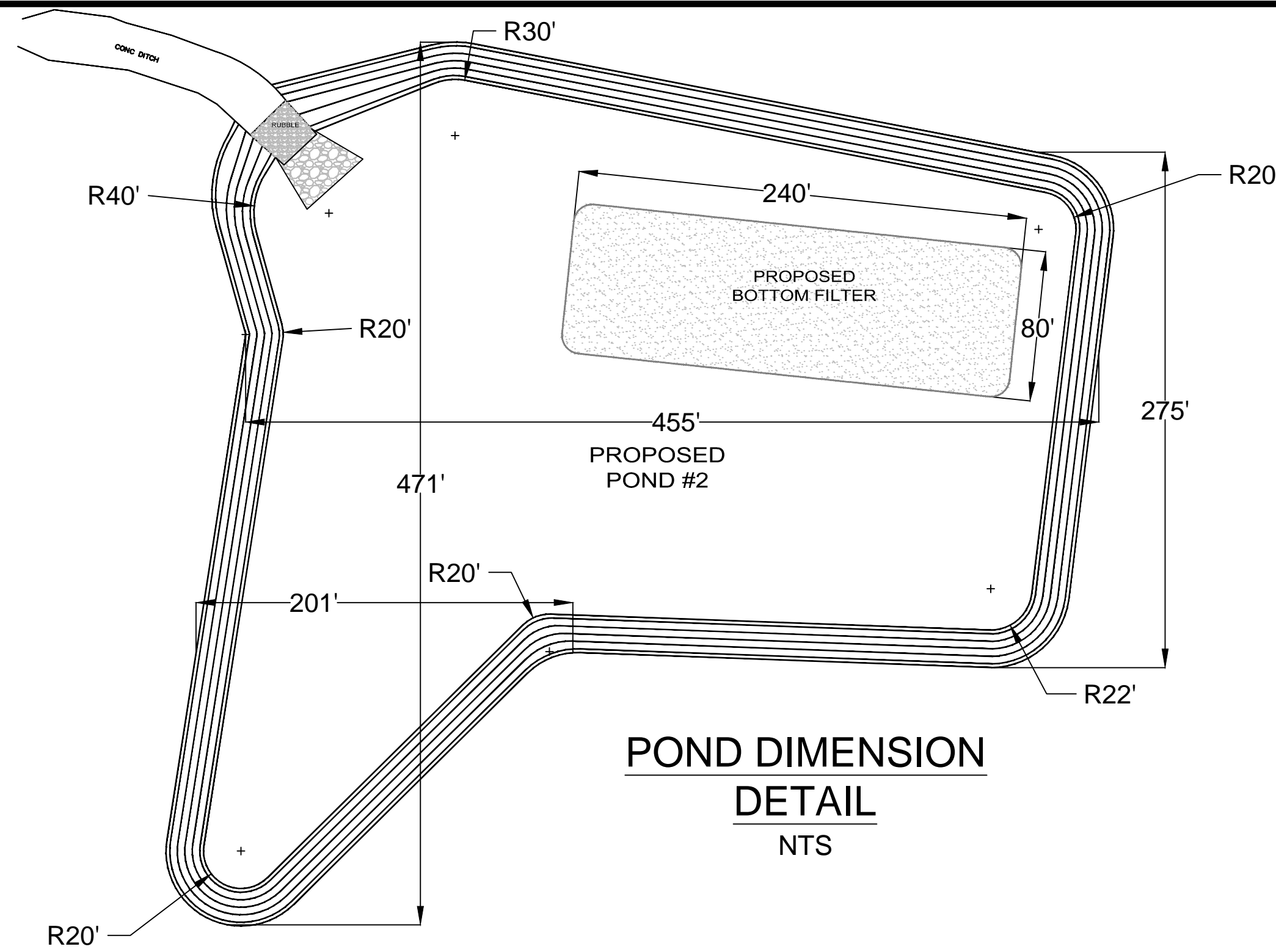
- RIP-RAP APRON TO BE 36' - 0" LONG AND 25' - 0" WIDE AS SHOWN.
- RIP-RAP SHALL BE CONCRETE RUBBLE OR BROKEN STONE MEETING THE REQUIREMENTS OF FDOT SECTION 530-2.1.3.1 RUBBLE (BANK AND SHORE PROTECTION).
- THICKNESS OF RIP-RAP APRON SHALL BE AT LEAST 36".
- RIP-RAP TO BE UNDERLAIN BY FILTER FABRIC PER FDOT INDEX 514-3.4

### RIP-RAP PAD DETAIL G NTS



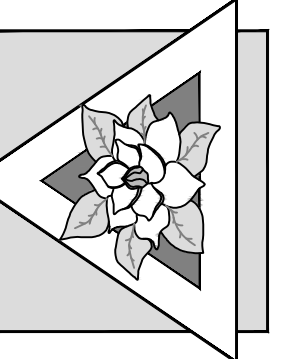
**NOTES:**

- RIP-RAP APRON TO BE 4' - 0" LONG AND 5' - 8" WIDE AS SHOWN.
- RIP-RAP SHALL BE CONCRETE RUBBLE OR BROKEN STONE MEETING THE REQUIREMENTS OF FDOT SECTION 530-2.1.3.2 RUBBLE (DITCH LINING).
- THICKNESS OF RIP-RAP APRON SHALL BE AT LEAST 10".
- RIP-RAP TO BE UNDERLAIN BY FILTER FABRIC PER FDOT INDEX 514-3.4



## Magnolia Engineering LLC

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REVISED BY DATE COMMENTS

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PROJECT LEON COUNTY LANDFILL  
TITLE NOTE AND DETAIL SHEET (2/2)  
CLIENT LEON COUNTY

DESIGNED BY SWK  
DRAWN BY SWK  
CHECKED BY CBG  
DATE 10-28-2016  
SCALE NTS

PROJECT NUMBER ME14015  
SHEET NUMBER D - 2