

10. PERMIT DRAWINGS

GEORGIA POWER COMPANY

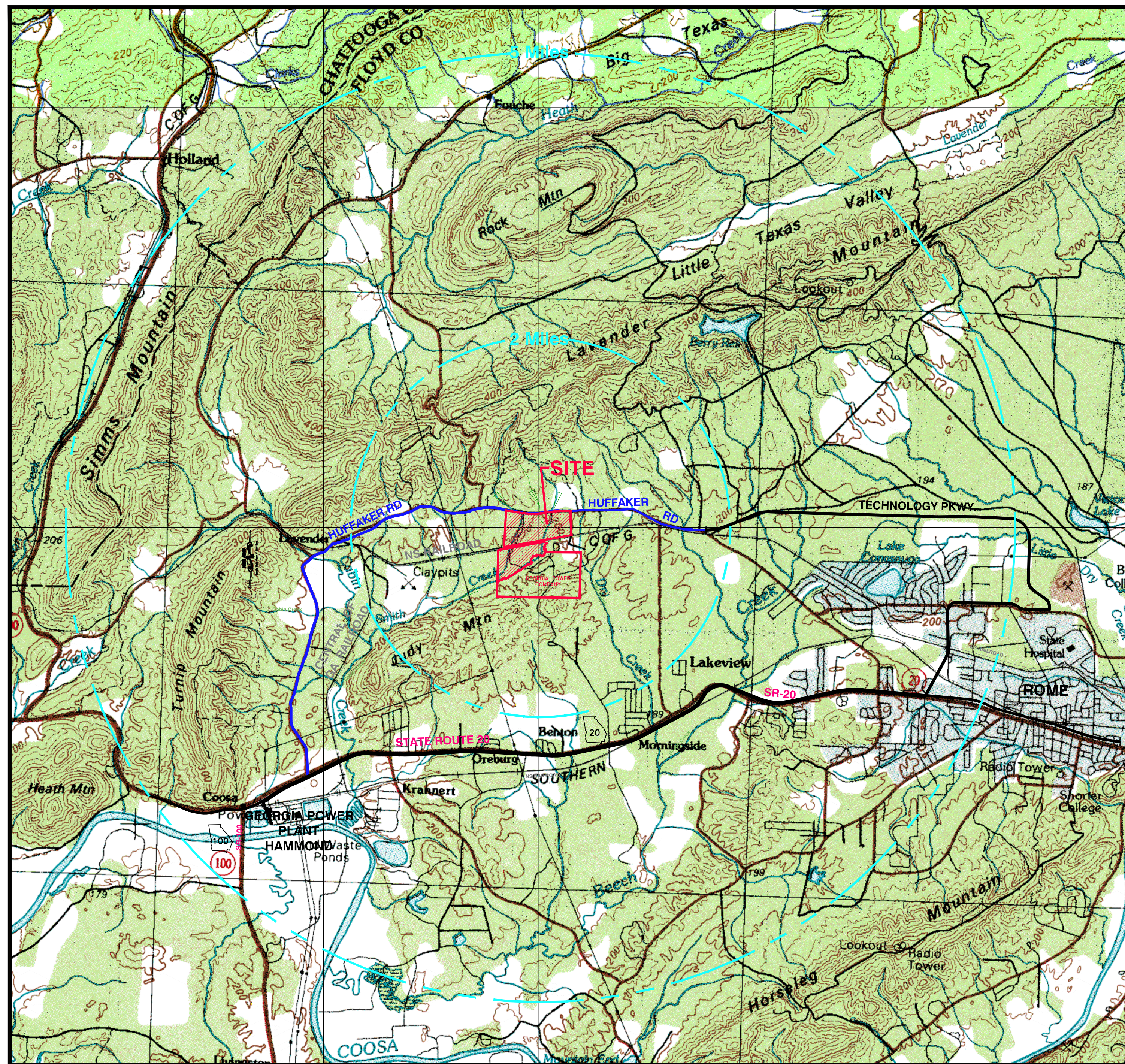
PLANT HAMMOND - HUFFAKER ROAD

COAL COMBUSTION BY- PRODUCTS DISPOSAL FACILITY

DRAWING INDEX

ROME, FLOYD COUNTY, GEORGIA 30165
CCR PERMIT APPLICATION - NOVEMBER 2018
PERMIT DRAWINGS

DWG#	REV#	TITLE
H9130	3	LOCATION MAP, DRAWING INDEX & CONTACT INFORMATION
H9131	2	EXIST. SITE TOPOGRAPHIC MAP & BORING/PIEZOMETER LOCATIONS
S1800	0	PARCELS C & D EXISTING CONDITIONS
H9132	3	FLOOD ZONE MAP
H9133	6	GENERAL SITE DEVELOPMENT LAYOUT
H9134	5	PARCELS A & B SITE DEVELOPMENT PLAN
H9135	4	PARCELS A & B INITIAL STACKING PLAN
H9136	3	PARCELS A & B FINAL STACKING PLAN
S1801	0	PARCELS C & D LINER SUBGRADE PLAN
S1802	0	PARCELS C & D LINER PLAN
S1803	0	PARCELS C & D LEACHATE COLLECTION SYSTEM PLAN
S1804	0	PARCELS C & D DRAINAGE LAYER / PROTECTIVE COVER PLAN
S1805	0	PARCELS C & D CAP GEOMEMBRANE LIMITS PLAN
H9140	2	PARCEL E SITE DEVELOPMENT PLAN
H9141	2	PARCEL E FINAL STACKING PLAN
H9142	3	PARCELS A & B DOWN DRAIN PLAN
S1806	0	PARCELS C & D DOWN DRAIN PLAN
H9144	2	PARCEL E DOWN DRAIN PLAN
H9145	2	PARCELS A & B LONGITUDINAL SECTION A-A
H9146	2	PARCELS A & B LONGITUDINAL SECTION B-B
H9147	2	PARCELS A & B TRANSVERSE SECTION C-C
S1807	0	PARCELS C & D FINAL GRADE PLAN
S1808	0	PARCELS C & D CROSS SECTIONS
S1809	0	PARCELS C & D CROSS SECTIONS
H9151	2	PARCEL E LONGITUDINAL & TRANSVERSE SECTIONS G-G, H-H & J-J
H9152	3	GRADING, DRAINAGE & COVER DETAILS
H9153	2	DIVERSION BERM & DOWN-DRAIN DETAILS
H9154	4	EROSION CONTROL SECTIONS & DETAILS
H9155	5	EROSION CONTROL SECTIONS & DETAILS
H9156	3	EROSION CONTROL SECTIONS & DETAILS
H9157	3	GRADING, SITE DEVELOPMENT & GENERAL NOTES
H9158	5	DESIGN, CONSTRUCTION & OPERATING NOTES, SHEET 1 OF 2 - MOVED ²
H11528	1	DESIGN, CONSTRUCTION & OPERATING NOTES, SHEET 2 OF 2 - MOVED ²
H9159	4	CLOSURE & POST CLOSURE PROCEDURES - MOVED ²
H9160	4	GROUNDWATER MONITORING PLAN - NARRATIVE - MOVED ²
H9161	2	GEOLOGIC CROSS SECTIONS A-A
H9162	2	GEOLOGIC CROSS SECTIONS B-B
H9163	2	GROUNDWATER POTENTIOMETRIC SURFACE SEPT. 17, 2003
H9164	2	GROUNDWATER POTENTIOMETRIC SURFACE MAY 11, 2004
H9165	3	PARCELS A AND B COMPLIANCE MONITORING NETWORK
H9166	3	PARCELS C AND D COMPLIANCE MONITORING NETWORK
H9167	3	PARCEL E COMPLIANCE MONITORING NETWORK
H9168	1	LEGAL DESCRIPTION OF PROPERTY
H-628-10	2	PROPERTY PLAT AND CLOSURE STATEMENT
H9223	3	PARCELS A AND B LANDSCAPING WITHIN BUFFER ZONE
H9224	3	PARCELS C AND D LANDSCAPING WITHIN BUFFER ZONE
H9225	1	PARCEL E LANDSCAPING WITHIN BUFFER ZONE
H9226	2	GENERAL NOTES, SCOPE OF WORK, EROSION CONTROL SECTIONS & DETAILS LANDSCAPING WITHIN BUFFER ZONE
H9227	1	MISC.DETAILS AND EROSION CONTROL SECTIONS & DETAILS LANDSCAPING WITHIN BUFFER ZONE
H11522	1	PARCELS A & B GRADING, DRAINAGE & COVER DETAILS
H11523	0	PARCELS A & B GRADING, DRAINAGE & COVER DETAILS
H11524	0	PARCELS A & B SECTIONS AND DETAILS
H11525	0	PARCELS A & B SECTIONS AND DETAILS
H11526	0	PARCELS A & B SECTIONS AND DETAILS
H11527	0	PARCELS A & B SECTIONS AND DETAILS
H11529	1	CONSTRUCTION QUALITY ASSURANCE PLAN, SHEET 1 OF 2 - MOVED ²
H11530	0	CONSTRUCTION QUALITY ASSURANCE PLAN, SHEET 2 OF 2 - MOVED ²
S1810	0	PARCELS C & D DETAILS
S1811	0	PARCELS C & D DETAILS
S1812	0	PARCELS C & D DETAILS
S1813	0	PARCELS C & D DETAILS
S1814	0	PARCELS C & D DETAILS



SITE LOCATION MAP
SCALE: 1" = 4,000'

CONTACT INFORMATION

RESPONSIBLE OFFICAL

GENERAL MANAGER
 GEORGIA POWER ENVIRONMENTAL AFFAIRS
 241 RALPH MCGILL BLVD. NE
 ATLANTA, GEORGIA 30308
 (404) 506-6505

PROPERTY OWNER

GEORGIA POWER COMPANY
 241 RALPH MCGILL BLVD.
 ATLANTA, GEORGIA 30308

CONSULTANT

STANTEC CONSULTING SERVICES INC.
 WAREHOUSE ROW NORTH 1110 MARKET STREET
 SUITE 214A
 CHATTANOOGA, TN 37402
 TEL: (423) 800-5350
 FAX: (423) 800-5351

- NOTES:**
- THIS DISPOSAL UNIT OPERATED UNDER SOLID WASTE PERMIT NO. 057-022D(LI) ISSUED BY THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) ON MAY 26, 2006. THE MOST RECENT DESIGN AND OPERATION PLANS WERE APPROVED BY EPD ON APRIL 15, 2014. VARIOUS DRAWINGS WERE REVISED FOR SUBMITTAL WITH THE CCR PERMIT APPLICATION REQUIRED BY GEORGIA SOLID WASTE REGULATION 391-3-4-10. THIS DRAWING SET INCLUDES BOTH THE REVISED DRAWINGS AND THE 2014 EPD-APPROVED DRAWINGS, AS APPROPRIATE, AND COLLECTIVELY SERVE AS THE PERMIT DRAWINGS.
 - INFORMATION CONTAINED ON DRAWINGS H9158, H11528, H9159, H9160, H11529, H11530 WAS MOVED TO APPLICABLE SECTIONS OF THE CCR PERMIT APPLICATION.

DELETED DRAWINGS		
DWG#	REV#	TITLE
H9137	3	PARCELS C & D SITE DEVELOPMENT PLAN
H9138	3	PARCELS C & D INITIAL STACKING PLAN
H9139	3	PARCELS C & D FINAL STACKING PLAN
H9143	3	PARCELS C & D DOWN DRAIN PLAN
H9148	2	PARCELS C & D LONGITUDINAL SECTION D-D
H9149	2	PARCELS C & D LONGITUDINAL SECTION E-E
H9150	2	PARCELS C & D LONGITUDINAL SECTION F-F

REV. 3 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY JONI A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
3	11/16/2018	2	08/19/2013	1	09/15/2005	0	09/27/2004
ISSUED FOR CCR PERMIT APPLICATION		ISSUED FOR MINOR MODIFICATION		RE-ISSUED FOR PERMIT		ISSUED FOR PERMIT	
BY: SCC	CHK'D: JRC	CIVL APPR: JAS	ELECT APPR: []	U/C APPR: []	MECH APPR: []	DISC APPR: []	
BY: CRU	CHK'D: MHL	CIVL APPR: LHB	ELECT APPR: []	U/C APPR: []	MECH APPR: []	DISC APPR: []	
BY: JDM	CHK'D: GHM	CIVL APPR: ELM	ELECT APPR: []	U/C APPR: []	MECH APPR: []	DISC APPR: []	
BY: JDM	CHK'D: KKF	CIVL APPR: GHM	ELECT APPR: HP	U/C APPR: []	MECH APPR: []	DISC APPR: []	

Stantec Consulting Services Inc.

FOR

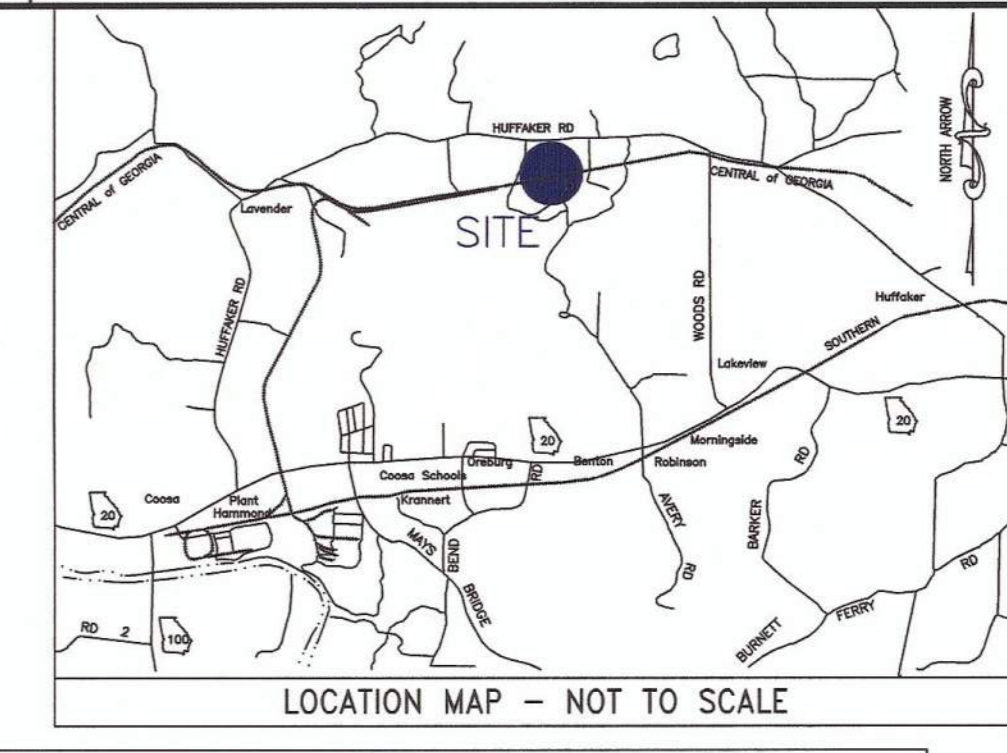
GEORGIA POWER COMPANY

PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 LOCATION MAP
 DRAWING INDEX
 CONTACT INFORMATION

SCALE	DRAWING NUMBER	SHEET	CONTD	REV
NONE	H9130	1	FINAL	3



- MONUMENTATION LEGEND**
- DEPICTS IRON PIN SET
 - DEPICTS IRON PIN FOUND
 - DEPICTS MONUMENT SET
 - DEPICTS MONUMENT FOUND
- PLAT ABBREVIATIONS**
- IPF - IRON PIN FOUND
 - IPS - IRON PIN SET
 - FPS - FENCE POST SET
 - OTP - OPEN TOP PIPE
 - CTP - CRIMP TOP PIPE
 - CONC. - CONCRETE
 - ALUMN. - ALUMINUM
 - P/L - PROPERTY LINE
 - R/W - RIGHT OF WAY
 - C/L - CENTERLINE
 - F/L - FENCE LINE



BORING/PIEZOMETER LOCATIONS

WELL	NORTHING	EASTING	TOP OF WELL ELEV.	GROUND ELEV.
HUF-1	1,565,636.59	1,955,343.10	658.23	654.22
HUF-2	1,565,628.99	1,954,534.65	657.09	652.68
HUF-3	1,565,527.00	1,953,737.00	657.97	654.01
HUF-4	1,565,635.78	1,952,691.18	682.44	677.39
HUF-5	1,565,855.95	1,952,059.23	702.10	698.17
HUF-6	1,564,312.96	1,951,970.99	668.07	663.57
HUF-7	1,563,563.99	1,951,603.19	656.81	652.01
HUF-8	1,562,095.36	1,951,605.29	619.39	614.79
HUF-9	1,562,839.92	1,952,975.37	643.53	639.83
HUF-10	1,563,850.61	1,953,859.87	644.02	639.62
HUF-11	1,564,403.31	1,955,447.23	650.84	645.24
HUF-12	1,565,125.98	1,954,937.95	652.18	647.88
HUF-13	1,564,498.98	1,954,473.95	646.97	641.77
HUF-14	1,564,857.87	1,953,968.52	649.78	646.28
HUF-15	1,564,546.52	1,953,146.59	655.96	651.46
HUF-16	1,563,691.60	1,952,568.52	655.46	650.96
HUF-17	1,562,780.07	1,952,040.18	628.46	626.86
HUF-18	1,565,100.44	1,952,489.85	NONE	655.02
HUF-19	1,563,317.00	1,953,388.91	641.54	638.54

- LEGEND:**
- HUF-1 BORING/TEMPORARY PIEZOMETER LOCATION
 - P/L PROPERTY LINE
 - DISPOSAL SITE BOUNDARY
 - BUFFER LINE
 - EXIST. GROUND CONTOURS
 - DISTRIBUTION POST (ELECTRICAL)
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - GEODETIC MARKER

PROPERTY LINE TABLE

LINE	BEARING	LENGTH
L1	S80°41'37"E	969.07'
L2	S87°41'59"E	377.98'
L3	N79°10'28"E	363.51'
L4	S89°44'27"E	235.27'
L5	S87°13'01"E	138.72'

SITE BOUNDARY LINE TABLE

LINE	BEARING	LENGTH
SL1	S81°17'01"E	437.51'
SL2	S88°20'57"E	360.74'
SL3	N79°04'50"E	257.26'
SL4	S89°09'42"E	543.06'

PROPERTY CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C1	2000.00'	244.56'	S84°11'48"E	244.41'
C2	1500.00'	343.63'	N85°44'14"E	342.88'
C3	3675.00'	710.98'	N84°43'00"E	709.87'
C4	5000.00'	220.25'	S88°28'44"E	220.24'

SITE BOUNDARY CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
SC1	5075'	384.93'	S79°06'39"E	384.83'
SC2	2595'	320.01'	S84°48'59"E	319.81'
SC3	2558'	561.20'	N85°21'56"E	560.08'
SC4	3428'	703.47'	N84°57'34"E	702.24'
SC5	7987'	37.54'	S89°17'46"E	37.53'

BUFFER LINE TABLE

LINE	BEARING	LENGTH
BL1	S81°17'01"E	437.51'
BL2	S88°20'57"E	360.74'
BL3	N79°04'50"E	257.26'
BL4	S89°09'42"E	381.53'

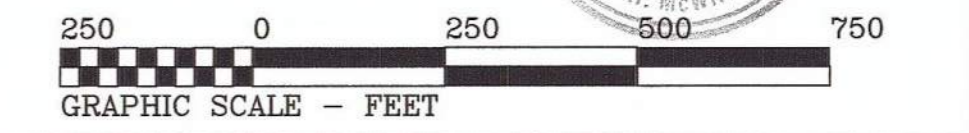
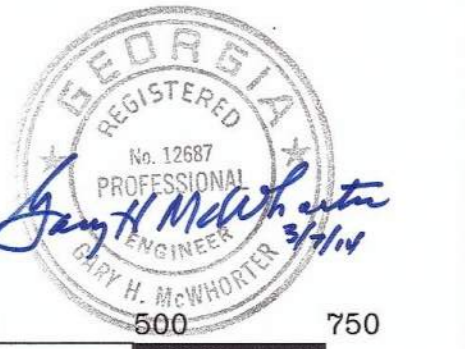
BUFFER CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
BC1	5275'	163.15'	S80°23'51"E	163.15'
BC2	2795'	344.67'	S84°48'59"E	344.46'
BC3	2758'	605.08'	N85°21'56"E	603.87'
BC4	3228'	662.43'	N84°57'34"E	661.27'

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 0510220115
APPROVED BY: *R. Saji* DATE: 11/5/2014

- NOTES:**
- ALL COORDINATES ARE GEORGIA STATE PLANE - WEST ZONE NAD83(94) ALL ELEVATIONS SHOWN ARE NAVD88.
 - WETLANDS SHOWN ON THIS PLAN ARE UNDER THE JURISDICTION OF THE US ARMY CORPS OF ENGINEERS. LOT OWNERS MAY BE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE WETLAND AREAS WITHOUT PROPER AUTHORIZATION.
 - DISPOSAL SITE BOUNDARY COINCIDES WITH PROPERTY LINE EXCEPT WHERE INDICATED.

REFERENCES
FOR A COMPLETE DRAWING LIST SEE SHEET H9130



REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION	DATE	REVISION	DATE	REVISION	DATE
2	05/15/2013	1	09/15/2005	0	09/27/2004
ISSUED FOR MINOR MODIFICATION		RE-ISSUED FOR PERMIT		ISSUED FOR PERMIT	
MWO: GPC232851,55,56,58 GPC232870,74,76,77		RE: HM01208		EWO: 3158CG	
BY: CRU	CHKD: MHL	CIVL APPR: LHB	ELECT APPR: KAM	MECH APPR: JDM	MGR APPR: GHM
BY: JDM	CHKD: GHM	CIVL APPR: ELM	ELECT APPR: JDM	MECH APPR: GHM	MGR APPR: HP

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
EXISTING SITE TOPOGRAPHIC MAP AND
BORING/PIEZOMETER LOCATIONS

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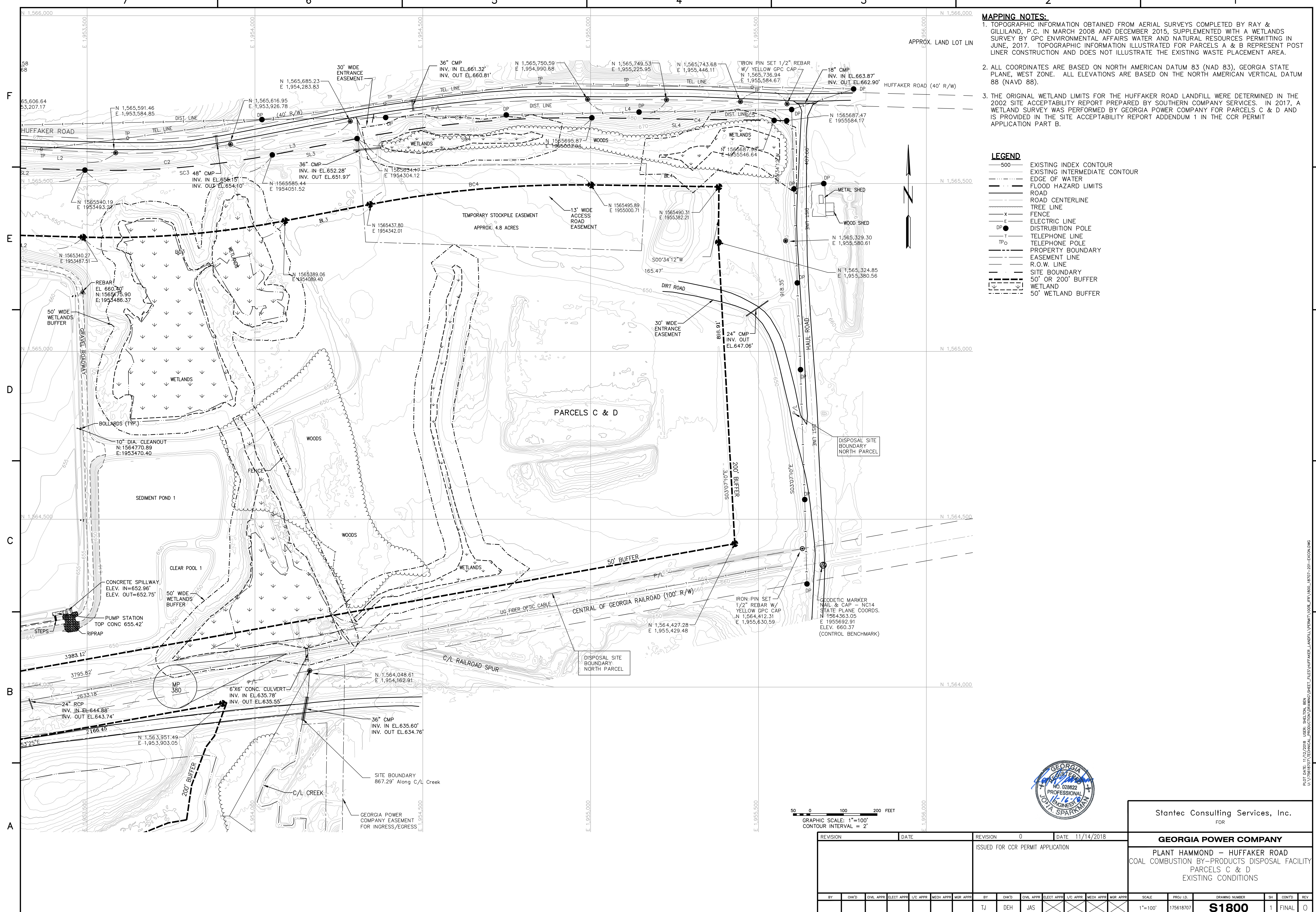
SCALE: 1"=250'

DRAWING NUMBER: **H9131**

SH: 1

CONT'D: FINAL

REV: 2

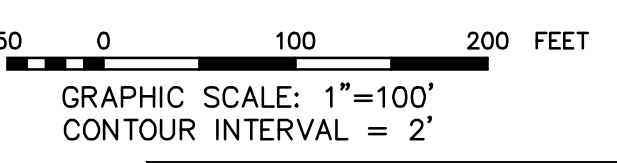


MAPPING NOTES:

1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
3. THE ORIGINAL WETLAND LIMITS FOR THE HUFFAKER ROAD LANDFILL WERE DETERMINED IN THE 2002 SITE ACCEPTABILITY REPORT PREPARED BY SOUTHERN COMPANY SERVICES. IN 2017, A WETLAND SURVEY WAS PERFORMED BY GEORGIA POWER COMPANY FOR PARCELS C & D AND IS PROVIDED IN THE SITE ACCEPTABILITY REPORT ADDENDUM 1 IN THE CCR PERMIT APPLICATION PART B.

LEGEND

	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	FLOOD HAZARD LIMITS
	ROAD
	ROAD CENTERLINE
	TREE LINE
	FENCE
	ELECTRIC LINE
	DISTRIBUTION POLE
	TELEPHONE LINE
	TELEPHONE POLE
	PROPERTY BOUNDARY
	EASEMENT LINE
	R.O.W. LINE
	SITE BOUNDARY
	50' OR 200' BUFFER
	WETLAND
	50' WETLAND BUFFER



Stantec Consulting Services, Inc. FOR	
GEORGIA POWER COMPANY	
PLANT HAMMOND – HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS C & D EXISTING CONDITIONS	
REVISION	DATE
0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION	
BY	CHK'D
TJ	DEH
CIVIL APPR	ELECT APPR
JAS	JAS
SCALE	PROJ. I.D.
1"=100'	175618707
DRAWING NUMBER	SHEET
S1800	1
CONTD.	REV
	FINAL

PLOT DATE: 11/17/2018 USER: SHELTON, BEN
 U:\175618707\TECHNICAL DRAWINGS\DRAWING\PLANS\HAMMOND\HUFFAKER\LANDFILL\EXISTING CONDITIONS.dwg



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
 The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

ZONE AE
 No Base Flood Elevations determined.
 Base Flood Elevations determined.
 Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AH
 Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AO
 Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AO indicates that the former flood control system is being restricted to provide protection from the 1% annual chance or greater flood.

ZONE AR
 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE A99
 Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE V
 Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE
 Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE
 The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X
 Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS
ZONE X
 Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D
 Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)
 CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
 0.2% annual chance floodplain boundary
 Floodway boundary
 Zone D boundary
 Zone X boundary
 CBRS and OPA boundary
 Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities
 Base Flood Elevation line and value, elevation in feet
 (EL 987)
 Base Flood Elevation value where uniform within zone; elevation in feet
 *Referenced to the North American Vertical Datum of 1988
 Cross section line
 Transact line
 40° 02' 08" 93° 02' 12" 12"
 499000 FT
 1983 datum
 Georgia State Plane coordinate system, West zone (FIPS Zone 1303), Transverse Mercator
 1" = 1" N
 1000 meter Universal Transverse Mercator grid values, zone 18
 DMS15N
 Bench mark (see explanation in Notes to Users section of the FIRMA panel)
 FT1000
 River Station

MAP REPOSITORY
 Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
 August 9, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
 September 25, 2009 - to change Base Flood Elevations, to add Special Flood Hazard Areas, roads and road names; to update corporate limits and map format; and to reflect updated topographic information.

For Community map revision history prior to countywide mapping, refer to the community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6623

MAP SCALE 1" = 1000'

- REFERENCES:**
1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
 2. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 3. MAP TAKEN FROM FEMA FLOOD INSURANCE RATE MAP - SEPTEMBER, 2009.



Stantec Consulting Services Inc.

FOR

GEORGIA POWER COMPANY

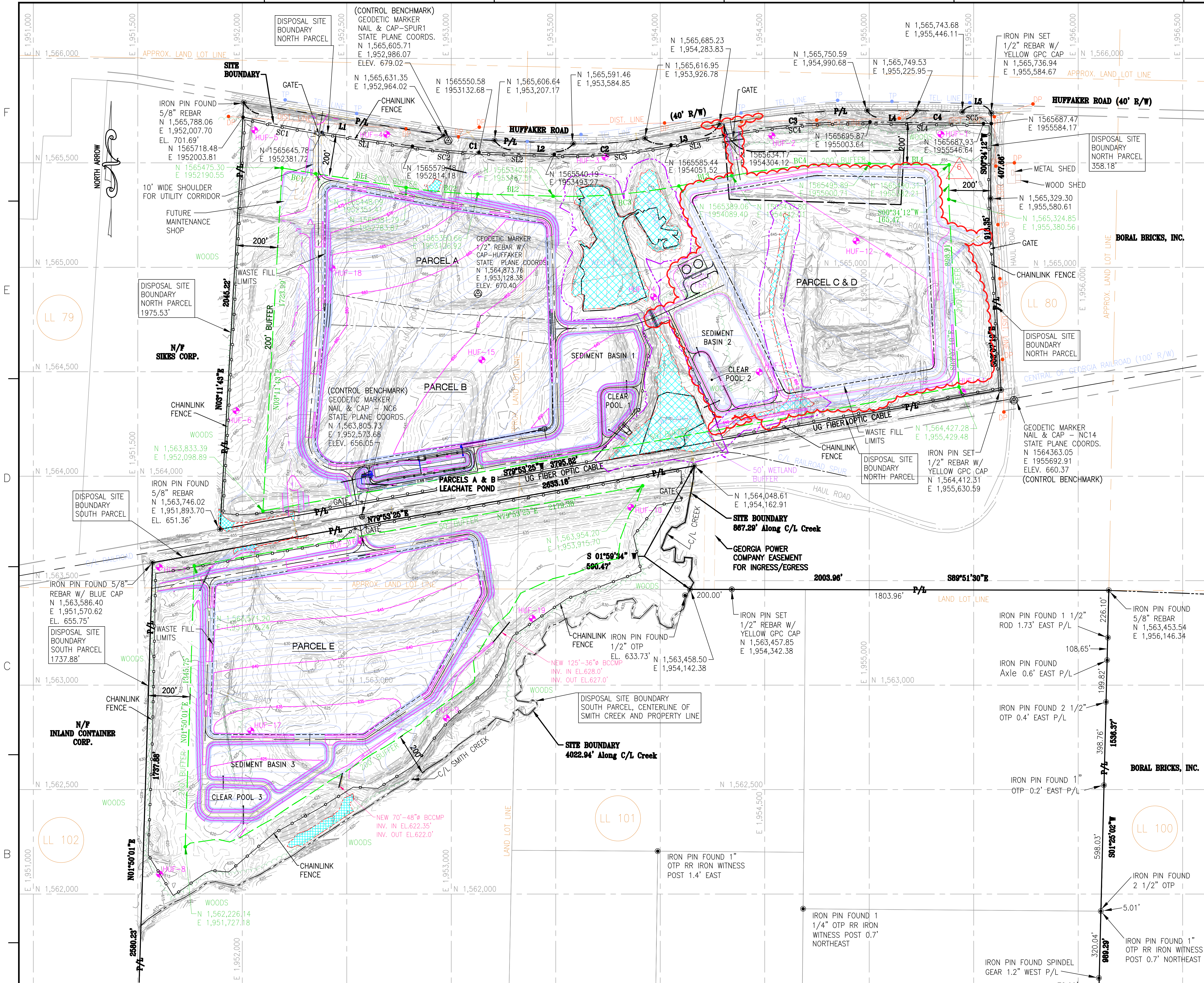
PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY

FLOOD ZONE MAP

REV. 3 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622

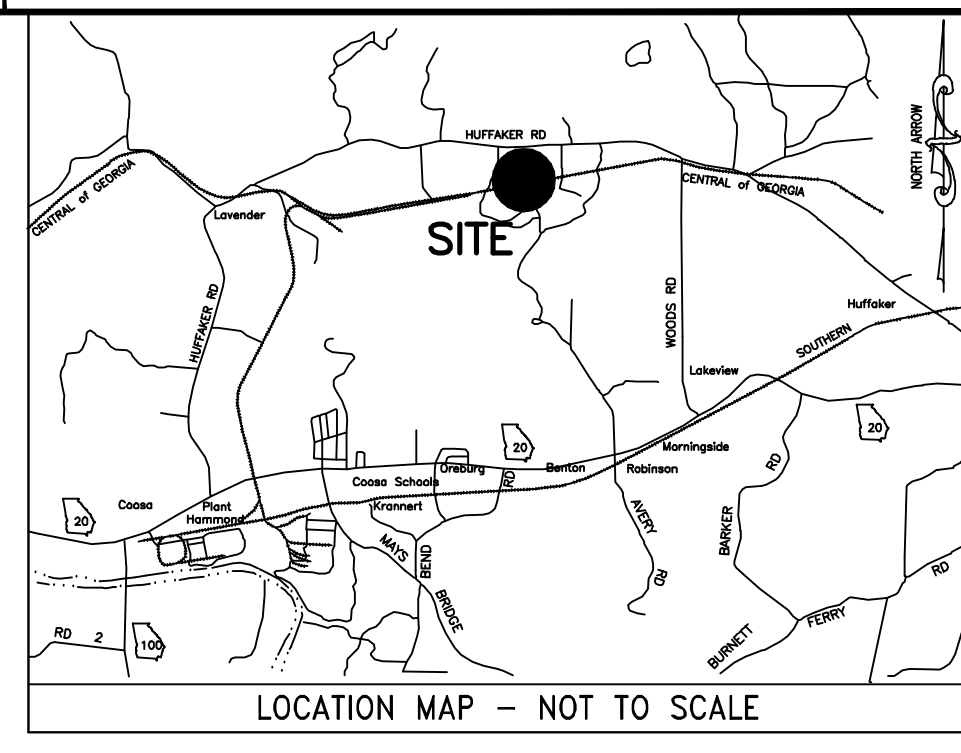
REVISION	3	DATE	11/16/2018	REVISION	2	DATE	08/16/2013	REVISION	1	DATE	09/15/2005	REVISION	0	DATE	09/27/04													
ISSUED FOR CCR PERMIT APPLICATION					ISSUED FOR MINOR MODIFICATION					RE-ISSUED FOR PERMIT					ISSUED FOR PERMIT													
				MWO: GPC232851,55,56,58 GPC232870,74,76,77	HAMMOND UNITS 1-4 MATS PROJECT				REA: HMO1208				EWO: 3158CG				REA: HMO1208				EWO: 3158CG							
BY	CHKD	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	MGR APPR	BY	CHKD	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	MGR APPR	BY	CHKD	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	MGR APPR	BY	CHKD	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	MGR APPR	
SCC	JRC	JAS					CRU	MHL	LHB					KAM	JDM	GHM	ELM				JDM	KKF	GHM	HP				

SCALE	PROJ ID	DRAWING NUMBER	SH	CONTD	REV
NONE		H9132	1	FINAL	3



LEGEND:

- HUF-1 BORING/TEMPORARY PIEZOMETER LOCATION
- P/L PROPERTY LINE
- DISPOSAL SITE BOUNDARY
- BUFFER LINE
- 50' WETLAND BUFFER
- EXIST. GROUND CONTOURS
- 50' FINAL GRADE CONTOURS
- CHAINLINK FENCE
- DP DISTRIBUTION POST (ELECTRICAL)
- IP TELEPHONE POST
- JURISDICTIONAL WETLAND BOUNDARY
- NON-JURISDICTIONAL WETLAND BOUNDARY
- GEODETIC MARKER
- WASTE FILL LIMITS



PLAT ABBREVIATIONS

- IPF - IRON PIN FOUND
- IPS - IRON PIN SET
- FPS - FENCE POST SET
- OTP - OPEN TOP PIPE
- CTP - CRIMP TOP PIPE
- R/W - RIGHT OF WAY
- C/L - CENTERLINE
- F/L - FENCE LINE

SITE BOUNDARY LINE TABLE

LINE	BEARING	LENGTH
SL1	S81°17'01"E	437.51'
SL2	S88°20'57"E	360.74'
SL3	N79°04'50"E	257.26'
SL4	S89°09'42"E	543.06'

SITE BOUNDARY CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
SC1	5075'	384.93'	S79°06'39"E	384.83'
SC2	2595'	320.01'	S84°48'59"E	319.81'
SC3	2558'	561.20'	N85°21'56"E	560.08'
SC4	3428'	703.47'	N84°57'34"E	702.24'
SC5	7987'	37.53'	S89°17'46"E	37.54'

BUFFER LINE TABLE

LINE	BEARING	LENGTH
BL1	S81°17'01"E	437.51'
BL2	S88°20'57"E	360.74'
BL3	N79°04'50"E	257.26'
BL4	S89°09'42"E	381.53'

BUFFER CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
BC1	5275'	163.15'	S80°23'51"E	163.15'
BC2	2795'	344.67'	S84°48'59"E	344.46'
BC3	2758'	605.08'	N85°21'56"E	603.87'
BC4	3228'	662.43'	N84°57'34"E	661.27'

WASTE FILL LIMIT ACREAGE (UNIT: ACRE)

PARCEL(S)	ACREAGE	REFERENCE DWG.
A	13.15	H9135
A+B	29.14	H9136
C	10.32	H9138
C+D	21.52	H9139
E	21.13	H9141

- NOTE:**
- SEE DRAWING H9157 FOR GENERAL NOTES.
 - FOR BUFFER LINE LOCATION INFORMATION SEE DWG. H9131.
 - CHAIN LINK FENCE DETAILS SEE DWG. H9152.
 - PIEZOMETER WILL BE ABANDONED IN ACCORDANCE W/ GEORGIA WATER WELL STANDARDS ACT. SEE DWG. H9160 ITEM 8 FOR ABANDONMENT PROCEDURES.
 - FOR DISPOSAL SITE BOUNDARY AND BUFFER ZONE PIN AND MARKER TYPICAL DETAIL, SEE DRAWING H9152, DETAIL H.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

REFERENCES
FOR A COMPLETE DRAWING LIST SEE SHEET H9130



Stantec Consulting Services Inc.
FOR

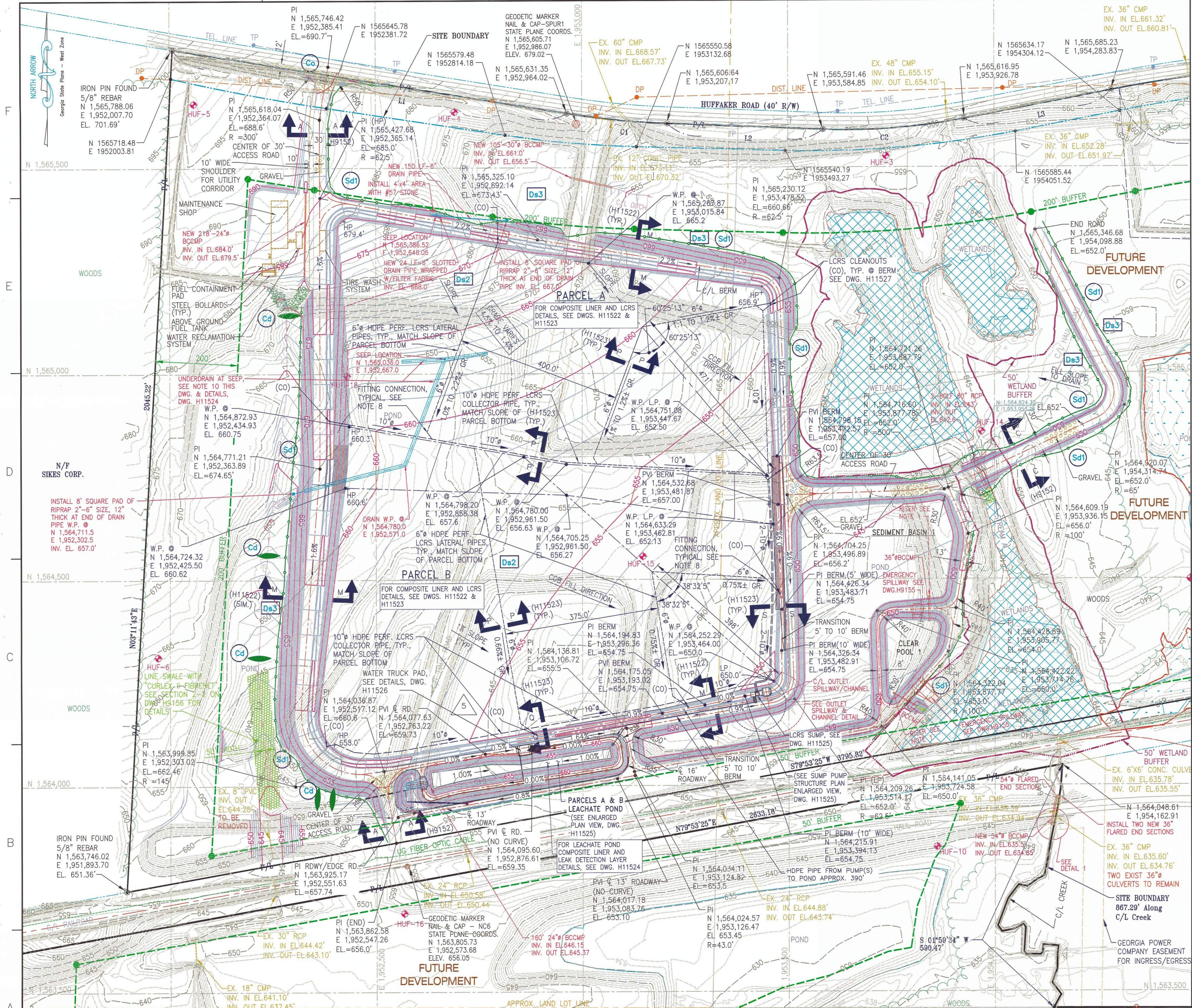
REV. 6 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622

NOTE:
ALL COORDINATES ARE GEORGIA STATE PLAN--WEST ZONE NAD83.
ALL ELEVATIONS SHOWN ARE NAVD88.

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVIL APPR.	ELECTRICAL APPR.	MECH APPR.	MGR APPR.
6	11/16/2018	ISSUED FOR CCR PERMIT APPLICATION	JAS	JRC	JAS			
5	08/19/2013	ISSUED FOR MINOR MODIFICATION	LHB	MHL	CRU			
4	09/12/2006	a. (D7) RELOCATED CHAIN LINK FENCE DUE TO WIDENING OF HUFFAKER RD.	ELM	GHM	JDM			
3	09/07/2006	a. RELOCATED CHAIN LINK FENCE DUE TO WIDENING OF HUFFAKER RD. b. RELOCATED CHAIN LINK FENCE AROUND NEWLY DESIGNATED WETLAND. c. ADDED NEW JURISDICTIONAL WETLANDS.	ELM	GHM	JDM			
2	02/15/2006	a. MODIFIED DRAINAGE DITCH.	ELM	GHM	JDM			
1	09/15/2005	RE-ISSUED FOR PERMIT	ELM	GHM	JDM			
0	09/27/2004	ISSUED FOR PERMIT	HP	KKF	JDM			

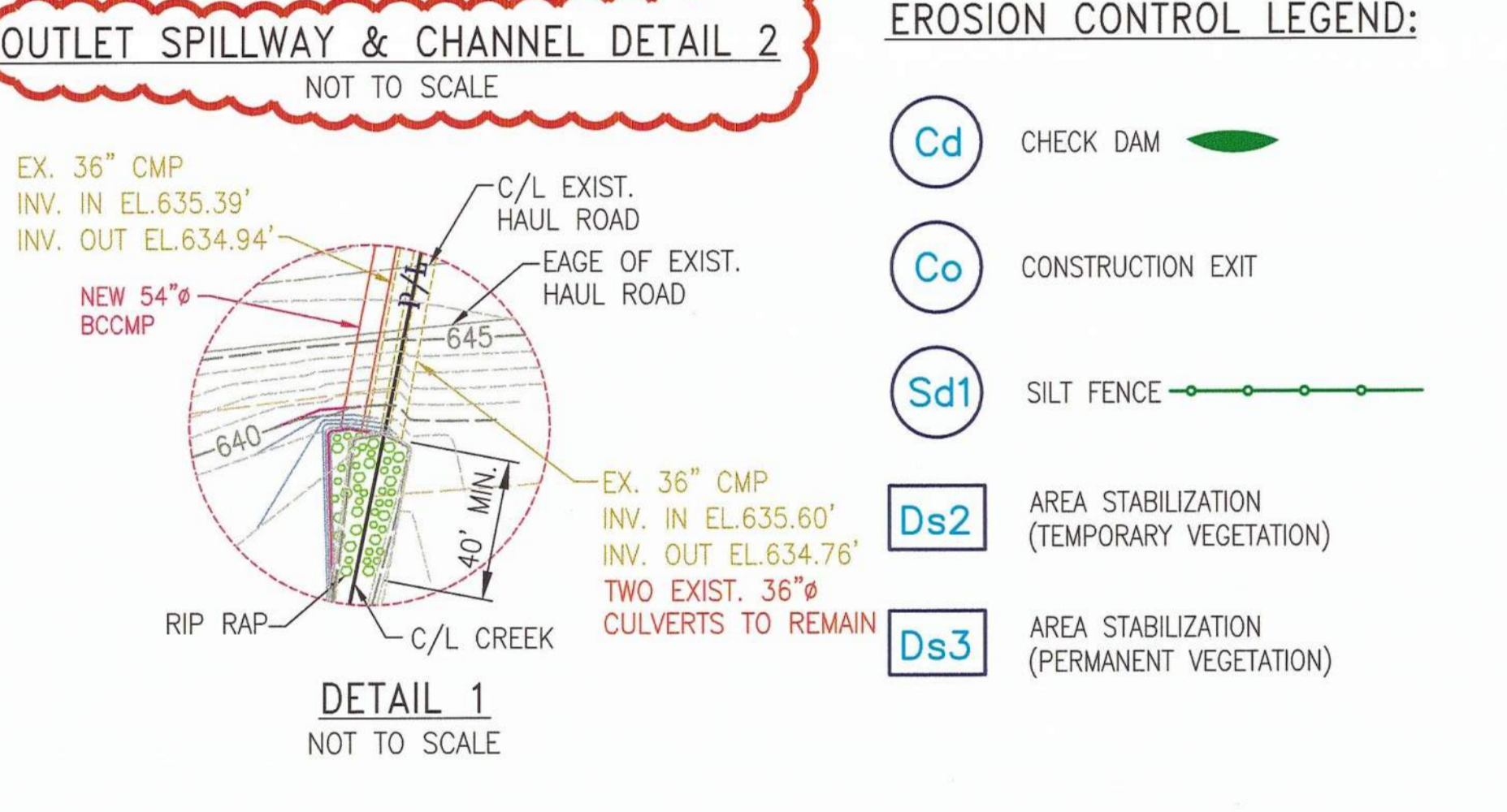
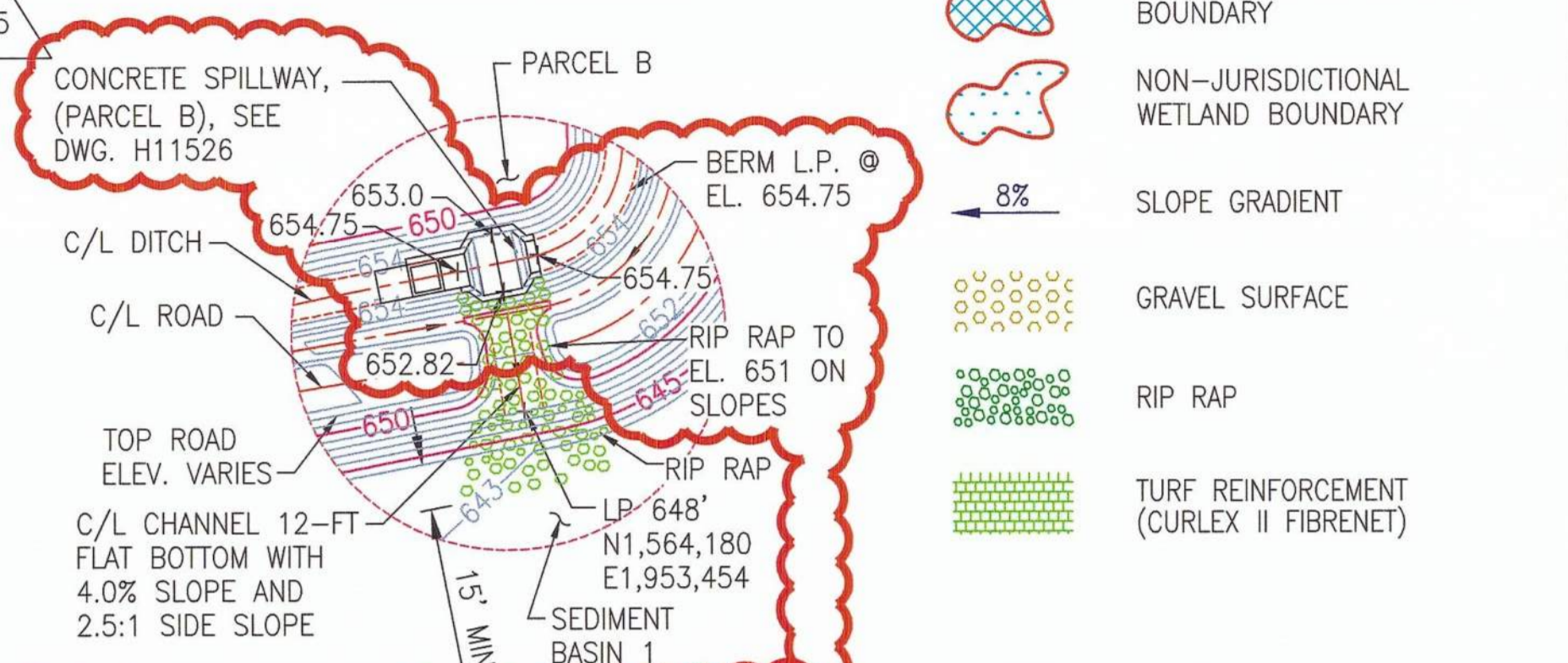
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
GENERAL SITE DEVELOPMENT LAYOUT

SCALE: 1"=200'
DRAWING NUMBER: **H9133**
SHEET: 1 OF 1
DATE: FINAL



LEGEND:

- HUF-1 BORING/TEMPORARY PIEZOMETER LOCATION
- P/L PROPERTY LINE
- DISPOSAL SITE BOUNDARY
- BUFFER LINE
- 50' WETLAND BUFFER
- EXIST. GROUND CONTOURS
- 50' FINISH GRADING CONTOURS
- GEODETIC MARKER
- DP DISTRIBUTION POST (ELECTRICAL)
- TP TELEPHONE POST
- JURISDICTIONAL WETLAND BOUNDARY
- NON-JURISDICTIONAL WETLAND BOUNDARY
- 8% SLOPE GRADIENT
- GRAVEL SURFACE
- RIP RAP
- TURF REINFORCEMENT (CURLEX II FIBRENET)



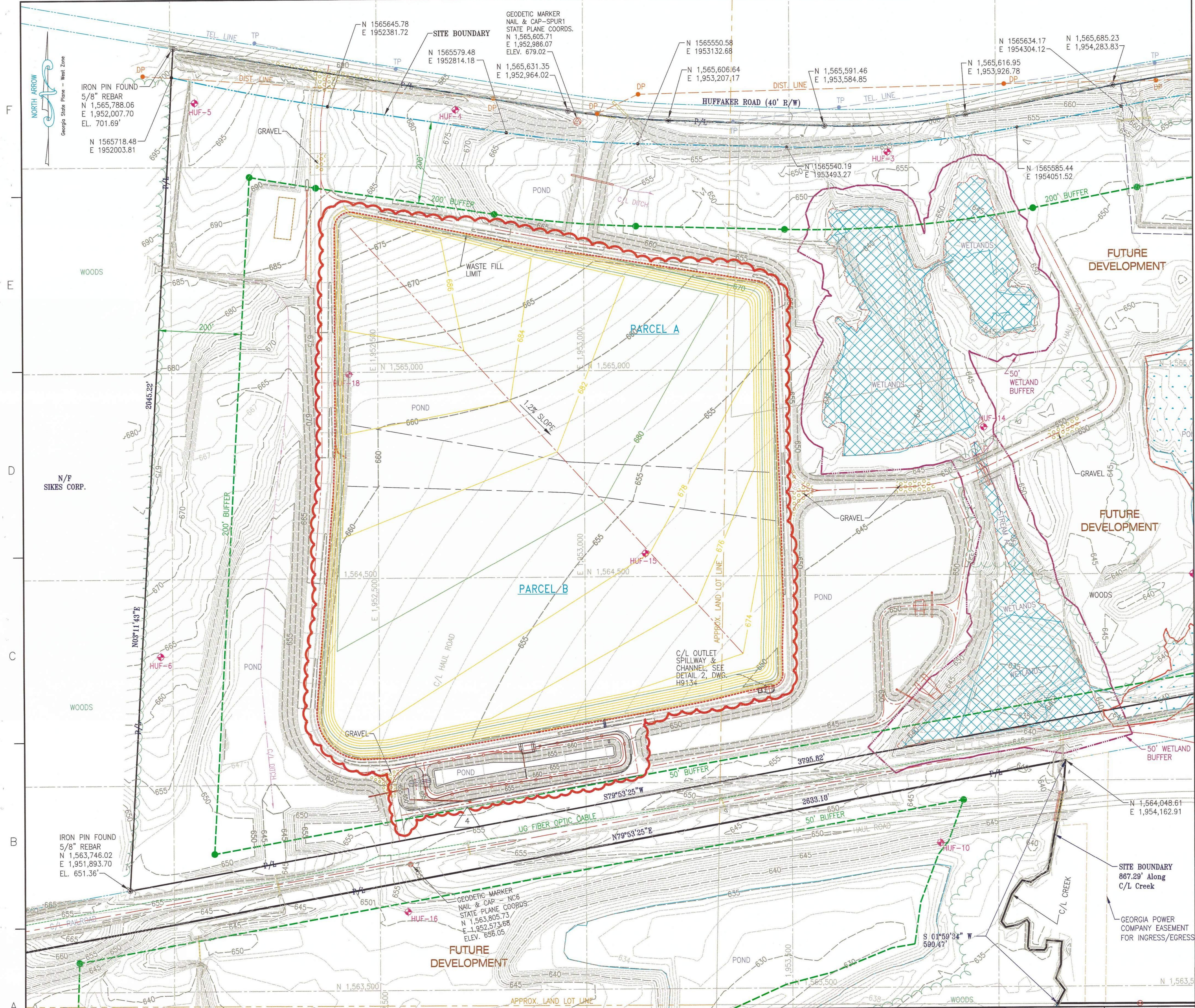
- NOTES**
- FOR PROFILES OF RISERS & OUTLET PIPES, AND OTHER SEDIMENT BASIN AND CLEAR POOL INFORMATION, SEE DRAWING H9155.
 - ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.22g.
 - FOR ALL CULVERT PIPE MATERIALS AND PIPE BEDDING DETAILS SEE DWG. H9153.
 - PONDS WITHIN CELL CONSTRUCTION AREA WILL BE DRAINED PRIOR TO START OF CONSTRUCTION.
 - SEDIMENT BASIN ARE DESIGNED TO HANDLE HYDRAULIC LOADING FOR 100 YEARS, 24 HOURS STORM AND SEDIMENT LOAD FOR LIFE OF SITE.
 - ALL LANDSCAPING IN BUFFER ZONES WILL BE PERFORMED CONCURRENT WITH PARCEL A & B DEVELOPMENT.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.
 - CONTRACTOR SHALL USE A COMBINATION OF TEE'S AND OTHER FITTINGS AS WELL AS ALLOWABLE PIPE/JOINT DEFLECTIONS AT PIPE INTERSECTIONS AND BENDS TO CONSTRUCT NETWORK SHOWN. PIPE SYSTEM SHALL BE A CONTIGUOUS NETWORK.
 - FINISH GRADE CONTOURS SHOWN ON THIS PLAN REPRESENT TOP OF CLAY LINER IN PARCELS AND PONDS, TOP OF STONE AT PERIMETER ROADS/LINED DITCHES, AND TOP OF SOIL COVER (TOPSOIL) WHERE GRASSED.
 - CONSTRUCT UNDERDRAIN BENEATH PARCEL AS SHOWN EXTENDING DRAIN AT SEEP POINT "T" IN DIRECTIONS AS NEEDED TO INTERCEPT ALL FLOW PATHS VISIBLE WHEN EXCAVATED.

REFERENCES

- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
- SEE H9157 FOR GENERAL NOTES.
- SEE H-9223 THRU H-9227 FOR LANDSCAPE PLANS.

100 0 100 200 300
GRAPHIC SCALE - FEET

REVISION 5 DATE 02/21/2014 ISSUED FOR MINOR MODIFICATION REV. 5 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687 MWO: GPC232851,55,56,58 HAMMOND UNITS 1-4 GPC232870,74,76,77 MATS PROJECT	REVISION 4 DATE 06/14/2007 α. ADDED TIRE WASH SYSTEM, ABOVE GROUND FUEL TANK AND FRENCH DRAIN REV. 4 OF THIS DRAWING WAS SEALED BY JOHN DAVID MERRITT, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 13010 REA: HM01208 EWO: 3158CG	REVISION 3 DATE 09/07/2006 α. (C4) MODIFIED 36" BCCMP, ADDED RIPRAP. REV. 3 OF THIS DRAWING WAS SEALED BY JOHN DAVID MERRITT, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 13010 REA: HM01208 EWO: 3158CG	REVISION 2 DATE 01/26/2006 α. MINOR GRADING CHANGE AT FUTURE MAINTENANCE SHOP. REA: HM01208 EWO: 3158CG	REVISION 1 DATE 09/15/2005 RE-ISSUED FOR PERMIT REA: HM01208 EWO: 3158CG	REVISION 0 DATE 09/27/2004 ISSUED FOR PERMIT REA: HM01208 EWO: 3158CG
Southern Company Services, Inc. FOR GEORGIA POWER COMPANY PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A AND B SITE DEVELOPMENT PLAN					
SCALE: 1"=100' DRAWING NUMBER: H9134 SH: 1 CONT'D: 5 REV: 5					

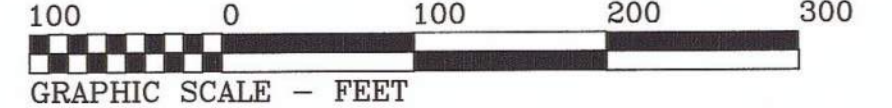
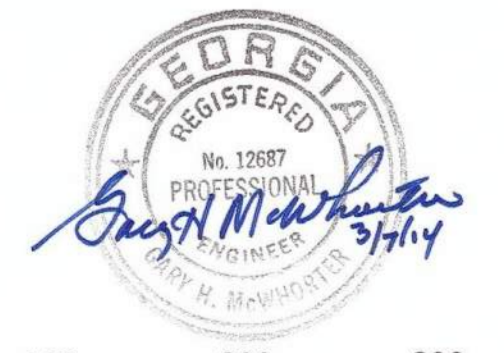


- LEGEND:**
- BORING/TEMPORARY PIEZOMETER LOCATION
 - PROPERTY LINE
 - DISPOSAL SITE BOUNDARY
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - 50' EXIST. GROUND CONTOURS
 - 50' FINISH GRADING CONTOURS
 - GEODETIC MARKER
 - DISTRIBUTION POST (ELECTRICAL)
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - 8% SLOPE GRADIENT
 - GRAVEL SURFACE
 - RIP RAP
 - TURF REINFORCEMENT (CURLEX II FIBRENET)
 - WASTE FILL LIMITS

- NOTES**
1. FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 2. FOR DESIGN, CONSTRUCTION AND OPERATION NOTES, INCLUDING VEGETATION SCHEDULE, SEE H9158.
 3. FOR DOWNDRAINS SEE DWG. H9142. DOWNDRAINS TO BE INSTALLED PROGRESSIVELY AS EACH LIFT REACHES FINAL GRADE.
 4. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

REFERENCES
FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057022D(11)
APPROVED BY: *R. Wojcik* DATE: 11/15/2014

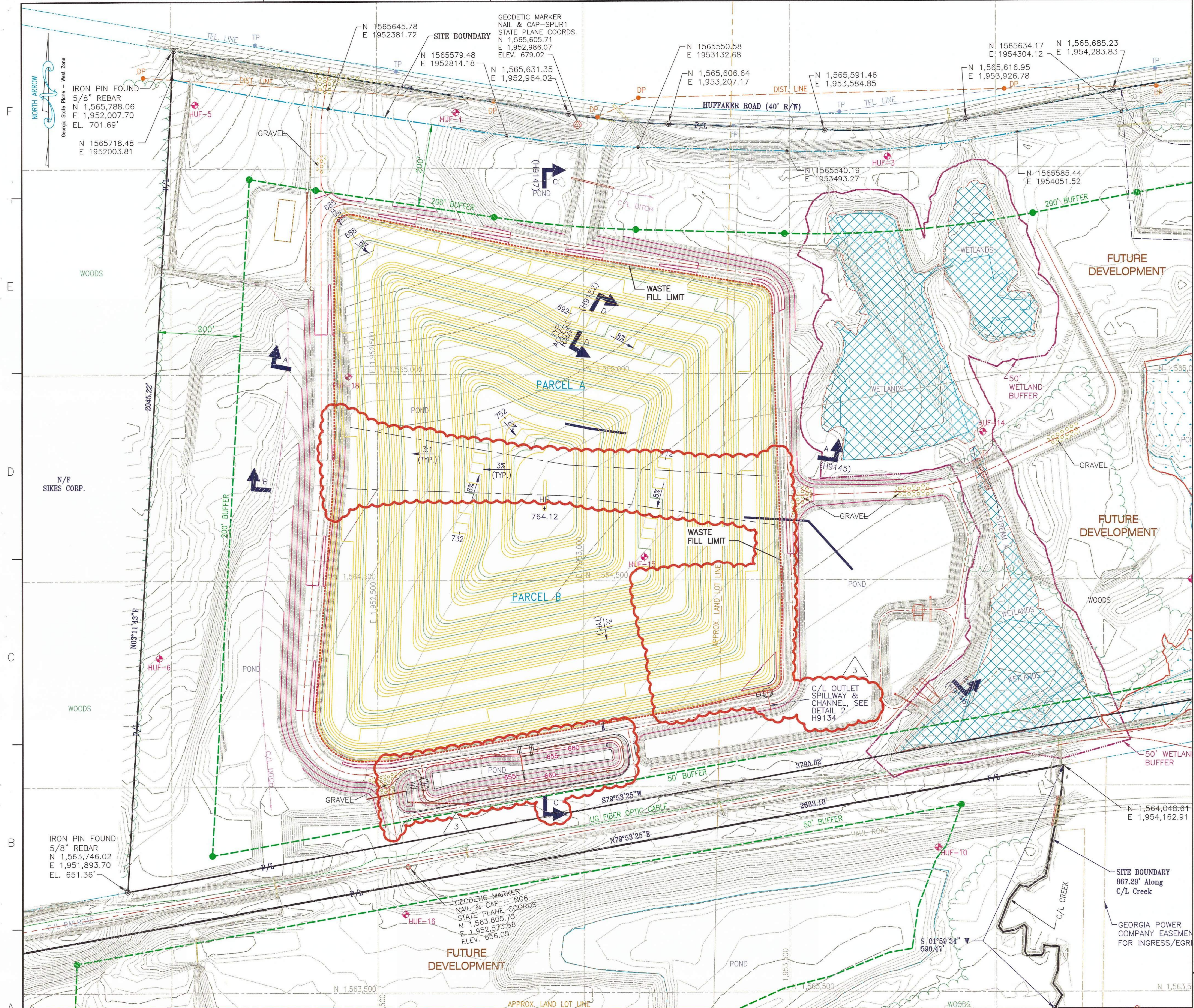


REV. 4 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION	DATE	DESCRIPTION
4	08/19/2013	ISSUED FOR MINOR MODIFICATION
3	01/26/2006	a. MODIFIED CONTOURS AT FUTURE MAINTENANCE SHOP.
2	01/17/2006	REVISED FOR PERMIT a. CHANGED CALL-OUT.
1	09/15/2005	RE-ISSUED FOR PERMIT
0	09/27/2004	ISSUED FOR PERMIT

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS A AND B
INITIAL STACKING PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONT'D	REV
1"=100'		H9135	1	FINAL	4



LEGEND:

- BORING/TEMPORARY PIEZOMETER LOCATION
- PROPERTY LINE
- DISPOSAL SITE BOUNDARY
- BUFFER LINE
- 50' WETLAND BUFFER
- EXIST. GROUND CONTOURS
- 50' FINISH GRADING CONTOURS
- GEODETIC MARKER
- DISTRIBUTION POST (ELECTRICAL)
- TELEPHONE POST
- JURISDICTIONAL WETLAND BOUNDARY
- NON-JURISDICTIONAL WETLAND BOUNDARY
- 8% SLOPE GRADIENT
- GRAVEL SURFACE
- RIP RAP
- TURF REINFORCEMENT (CURELX II FIBRENET)
- WASTE FILL LIMITS

- NOTES**
- FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 - FOR DESIGN, CONSTRUCTION AND OPERATION NOTES, INCLUDING VEGETATION SCHEDULE, SEE H9158.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

- REFERENCES**
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 - FOR DOWNDRAINS, SEE DRAWING H9142.

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program
 MINOR MODIFICATION APPROVAL
 SOLID WASTE PERMIT NO. 057.022D(LS)
 APPROVED BY: *R. Raji* DATE: 4/15/2014

GARY H. MCWHORTER
 PROFESSIONAL ENGINEER
 STATE OF GEORGIA

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 GRAPHIC SCALE - FEET

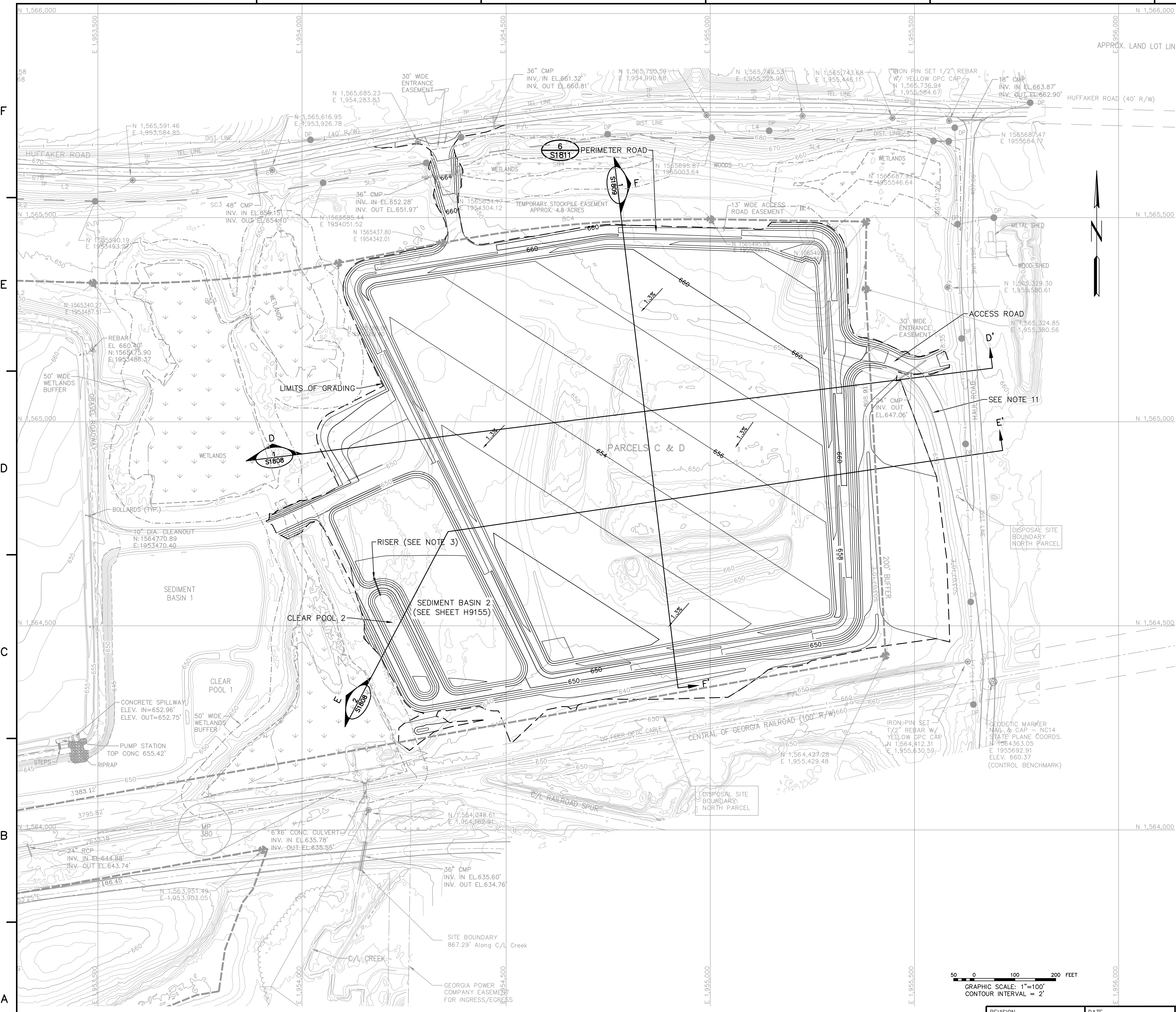
REV. 3 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION	DATE	DESCRIPTION
3	08/19/2013	ISSUED FOR MINOR MODIFICATION
2	01/26/2006	MODIFIED CONTOURS AT FUTURE MAINTENANCE SHOP.
1	09/15/2005	RE-ISSUED FOR PERMIT
0	09/27/2004	ISSUED FOR PERMIT

BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	MGR APPR	REVISION	DATE	DESCRIPTION
CRU	MHL	LHB				KAM	3	08/19/2013	ISSUED FOR MINOR MODIFICATION
JDM	GHM	ELM				JDM	2	01/26/2006	MODIFIED CONTOURS AT FUTURE MAINTENANCE SHOP.
JDM	GHM	ELM				JDM	1	09/15/2005	RE-ISSUED FOR PERMIT
JDM	GHM	HP				JDM	0	09/27/2004	ISSUED FOR PERMIT

Southern Company Services, Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 PARCELS A AND B
 FINAL STACKING PLAN

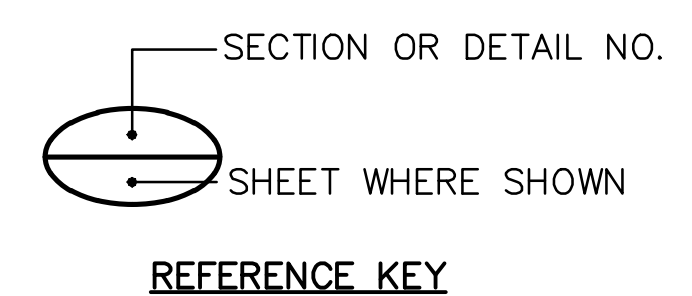
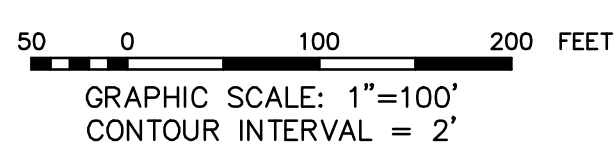
SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONT'D	REV
1"=100'		H9136	1		3



- MAPPING NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLULAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 3. FOR PROFILES OF RISERS & OUTLET PIPES, AND OTHER SEDIMENT BASIN AND CLEAR POOL INFORMATION, SEE DRAWING H9155.
 4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.24g.
 5. FOR ALL CULVERT PIPE MATERIALS AND PIPE BEDDING DETAILS SEE DWG. H9153.
 6. PONDS WITHIN PARCEL CONSTRUCTION AREA WILL BE DRAINED PRIOR TO START OF CONSTRUCTION.
 7. SEDIMENT BASIN IS DESIGNED TO HANDLE HYDRAULIC LOADING FOR 100 YEARS, 24 HOURS STORM AND SEDIMENT LOAD FOR LIFE OF SITE.
 8. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.
 9. PRIOR TO ANY DISTURBANCE OF WETLANDS, APPROPRIATE PERMITS WILL BE OBTAINED.
 10. STORMWATER IS TO BE COLLECTED IN A TEMPORARY STORMWATER SUMP AND PUMPED TO SEDIMENT BASIN 2.
 11. EXISTING ACCESS ROAD IS TO BE ABANDONED, GRADED TO DRAIN BASED ON ENCOUNTERED FIELD CONDITIONS, AND REVEGETATED.

LEGEND

	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	FLOOD HAZARD LIMITS
	ROAD
	ROAD CENTERLINE
	TREE LINE
	FENCE
	DISTRIBUTION POLE
	TELEPHONE LINE
	TELEPHONE POLE
	PROPERTY BOUNDARY
	EASEMENT LINE
	R.O.W. LINE
	SITE BOUNDARY
	BUFFER
	WETLAND
	50' WETLANDS BUFFER
	PROPOSED TOP OF LINER SUBGRADE INDEX CONTOUR
	PROPOSED TOP OF LINER SUBGRADE INTERMEDIATE CONTOUR



REVISION		DATE		REVISION		DATE	
				0		11/14/2018	
ISSUED FOR CCR PERMIT APPLICATION							
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	
BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	
TJ	DEH	JAS					

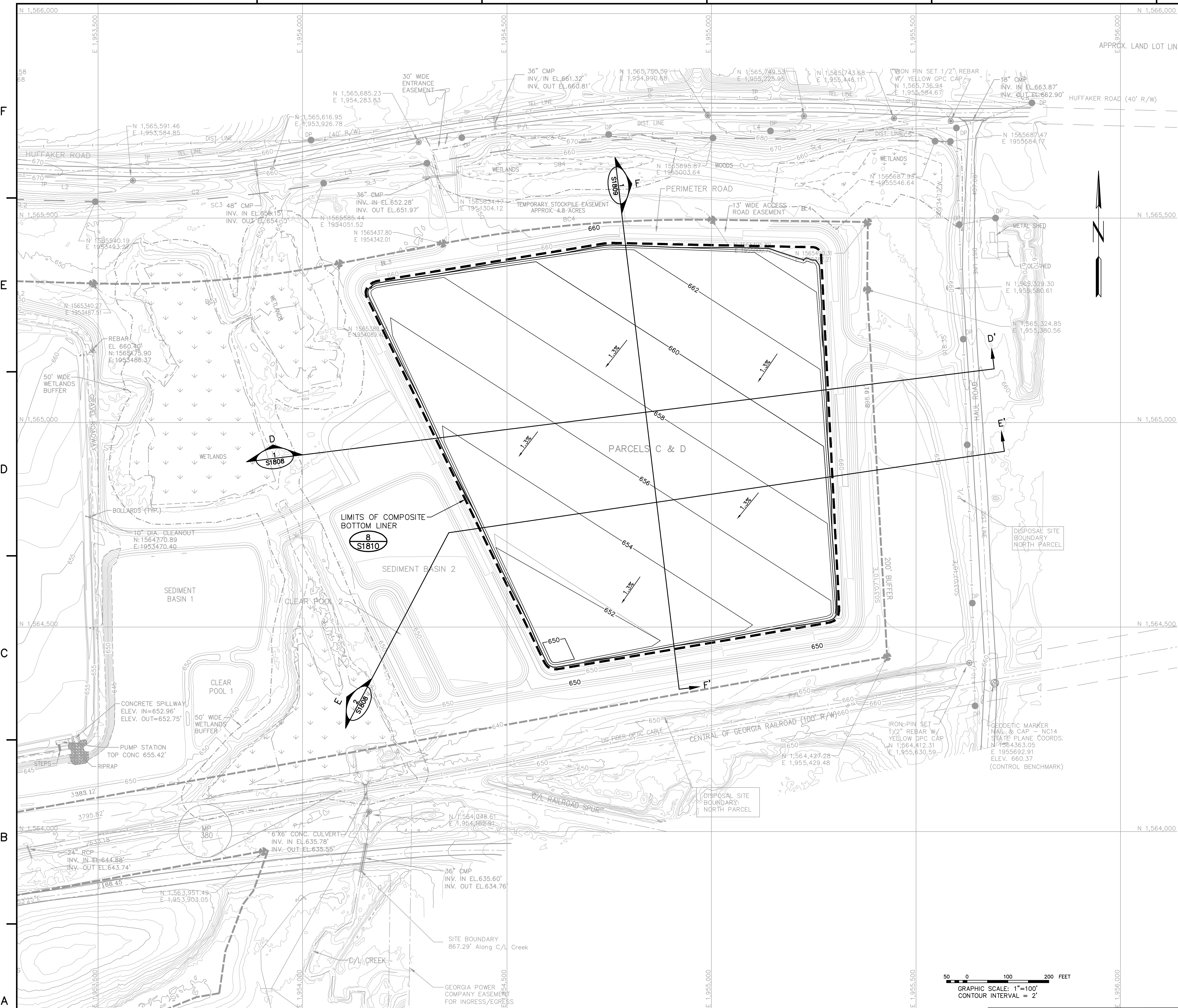
Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
LINER SUBGRADE PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SHT	CONTO	REV
1"=100'	175618707	S1801	1	FINAL	0

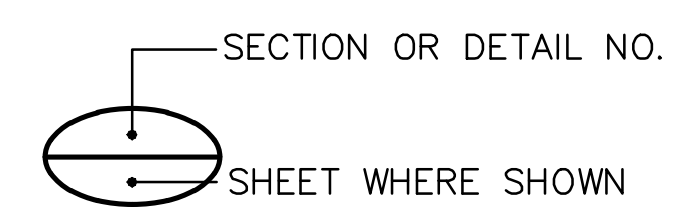
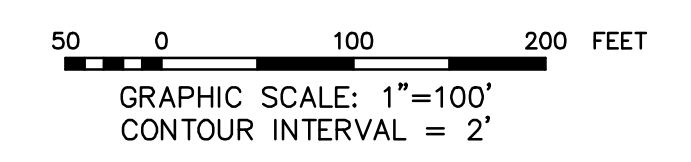
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- MAPPING NOTES:**
- TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 - ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 - FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

LEGEND

	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	FLOOD HAZARD LIMITS
	ROAD
	ROAD CENTERLINE
	TREE LINE
	FENCE
	ELECTRIC LINE
	DISTRIBUTION POLE
	TELEPHONE LINE
	TELEPHONE POLE
	PROPERTY BOUNDARY
	EASEMENT LINE
	R.O.W. LINE
	SITE BOUNDARY
	BUFFER
	WETLAND
	50' WETLAND BUFFER
	PROPOSED TOP OF LINER INDEX CONTOUR
	PROPOSED TOP OF LINER INTERMEDIATE CONTOUR
	LIMITS OF COMPOSITE BOTTOM LINER



REFERENCE KEY

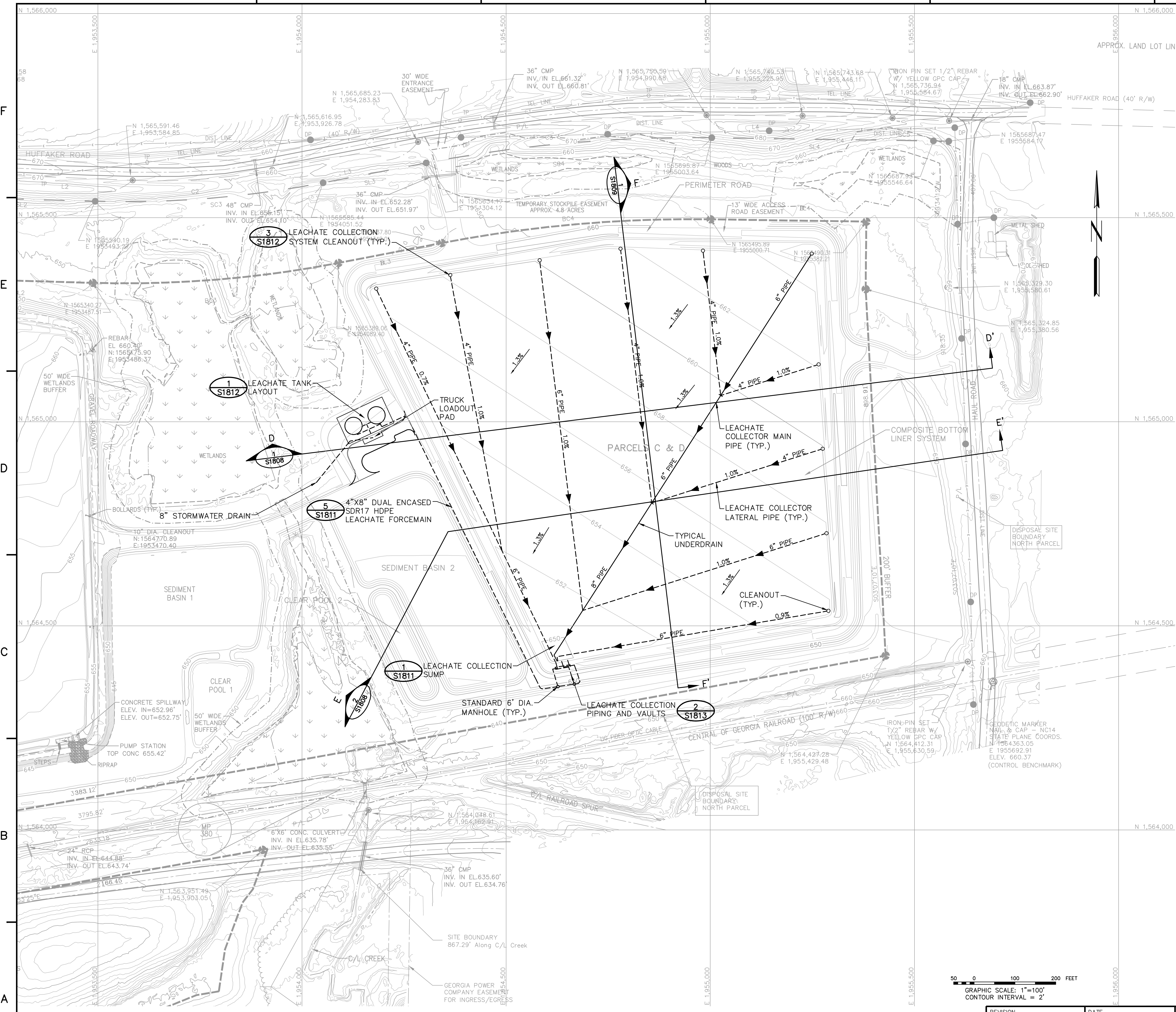
REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVL APPR	ELECT APPR
TJ	DEH	JAS	

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
LINER PLAN

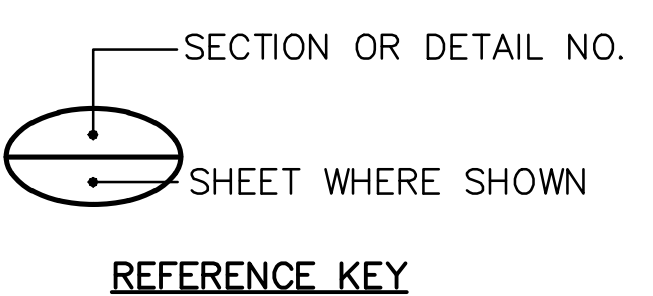
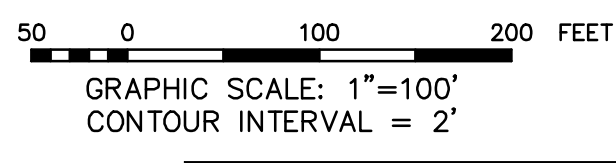
SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTOUR	REV
1"=100'	175618707	S1802	1	FINAL	0



- MAPPING NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 3. FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 4. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

LEGEND

	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	FLOOD HAZARD LIMITS
	ROAD
	ROAD CENTERLINE
	TREE LINE
	FENCE
	ELECTRIC LINE
	DISTRIBUTION POLE
	TELEPHONE LINE
	TELEPHONE POLE
	PROPERTY BOUNDARY
	EASEMENT LINE
	R.O.W. LINE
	SITE BOUNDARY
	BUFFER
	WETLAND
	50' WETLAND BUFFER



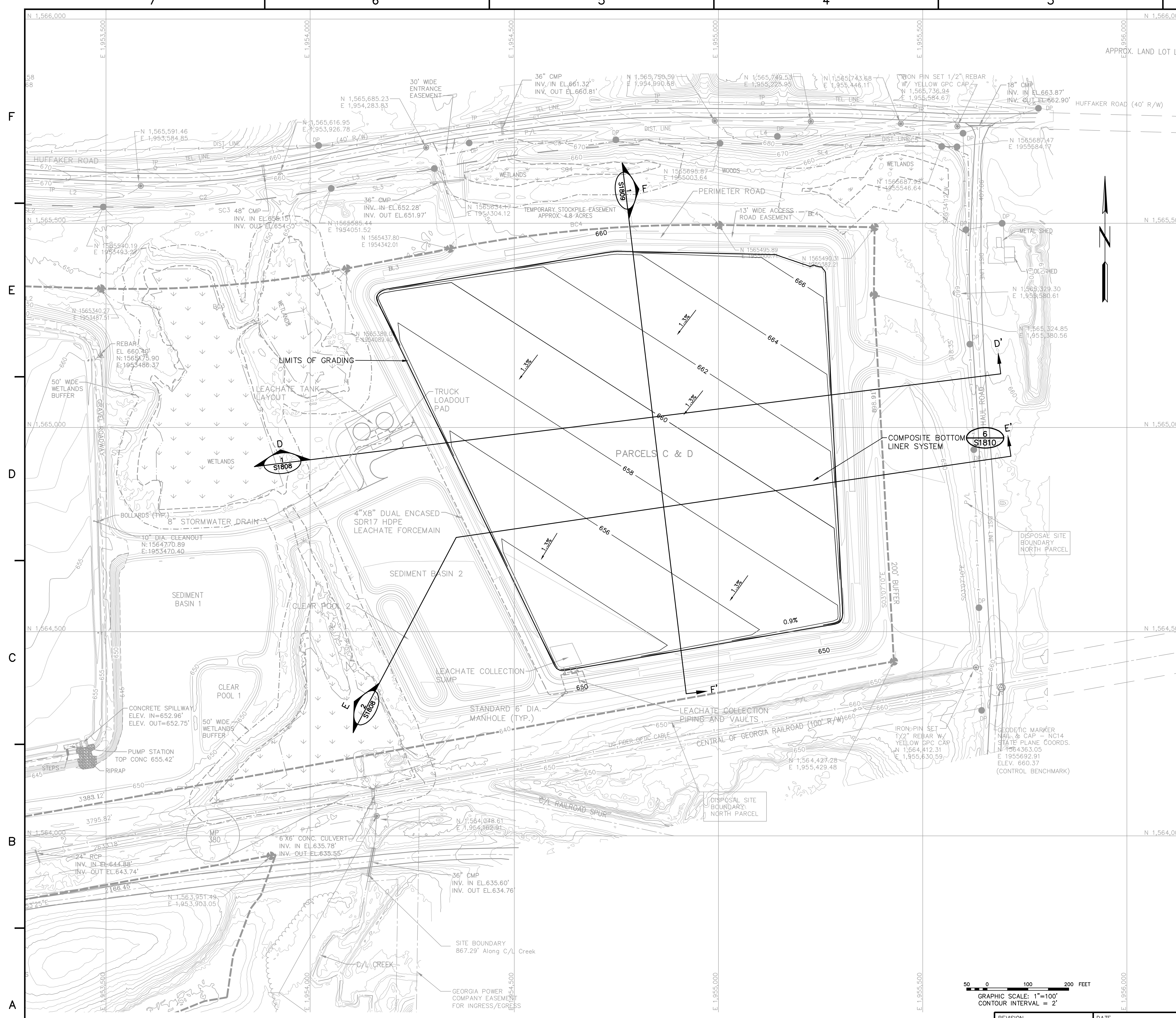
REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVL APPR	ELECT APPR
TJ	DEH	JAS	

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
LEACHATE COLLECTION SYSTEM PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTO	REV
1"=100'	175618707	S1803	1	FINAL	0



- MAPPING NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 3. A TEMPORARY STORMWATER FLAP SHALL BE USED DURING FILLING OPERATIONS TO REDUCE THE VOLUME OF STORMWATER DISCHARGE INTO THE LEACHATE COLLECTION SYSTEM.
 4. FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 5. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

LEGEND

	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	FLOOD HAZARD LIMITS
	ROAD
	ROAD CENTERLINE
	TREE LINE
	FENCE
	ELECTRIC LINE
	DISTRIBUTION POLE
	TELEPHONE LINE
	TELEPHONE POLE
	PROPERTY BOUNDARY
	EASEMENT LINE
	R.O.W. LINE
	SITE BOUNDARY
	BUFFER
	WETLAND
	50' WETLAND BUFFER
	PROPOSED DRAINAGE LAYER / PROTECTIVE COVER INDEX CONTOUR
	PROPOSED DRAINAGE LAYER / PROTECTIVE COVER INTERMEDIATE CONTOUR



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
SHEET WHERE SHOWN
REFERENCE KEY

REVISION	DATE	REVISION 0	DATE 11/14/2018
		ISSUED FOR CCR PERMIT APPLICATION	
BY	CHK'D	CIVL APPR	ELECT APPR
TJ	DEH	JAS	

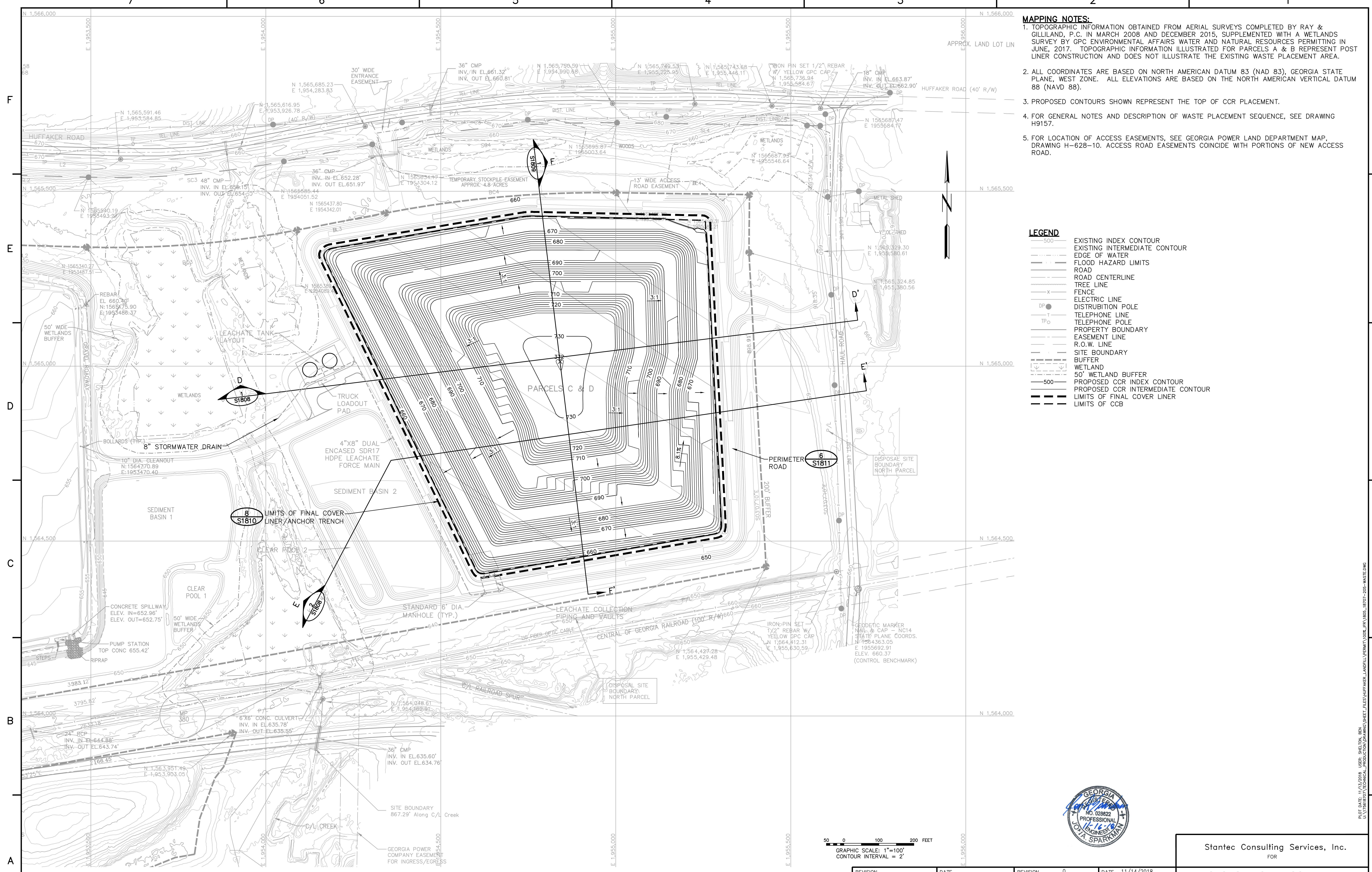
Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
DRAINAGE LAYER / PROTECTIVE COVER PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SHT	CONTO	REV
1"=100'	175618707	S1804	1	FINAL	0

PLOT DATE: 11/17/2018 USER: SHELTON, BEN U:\175618707\TECHNICAL\DRAWING\DRAWING_SHEET_PLETS\HUFFAKER_LANDFILL\PERMITS_DRAWING_SHEET_S1804-0107-246-01.DWG



- MAPPING NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 3. PROPOSED CONTOURS SHOWN REPRESENT THE TOP OF CCR PLACEMENT.
 4. FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 5. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

- LEGEND**
- EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EDGE OF WATER
 - FLOOD HAZARD LIMITS
 - ROAD
 - ROAD CENTERLINE
 - TREE LINE
 - FENCE
 - ELECTRIC LINE
 - DISTRIBUTION POLE
 - TELEPHONE LINE
 - TELEPHONE POLE
 - PROPERTY BOUNDARY
 - EASEMENT LINE
 - R.O.W. LINE
 - SITE BOUNDARY
 - BUFFER
 - WETLAND
 - 50' WETLAND BUFFER
 - PROPOSED CCR INDEX CONTOUR
 - PROPOSED CCR INTERMEDIATE CONTOUR
 - LIMITS OF FINAL COVER LINER
 - LIMITS OF CCB



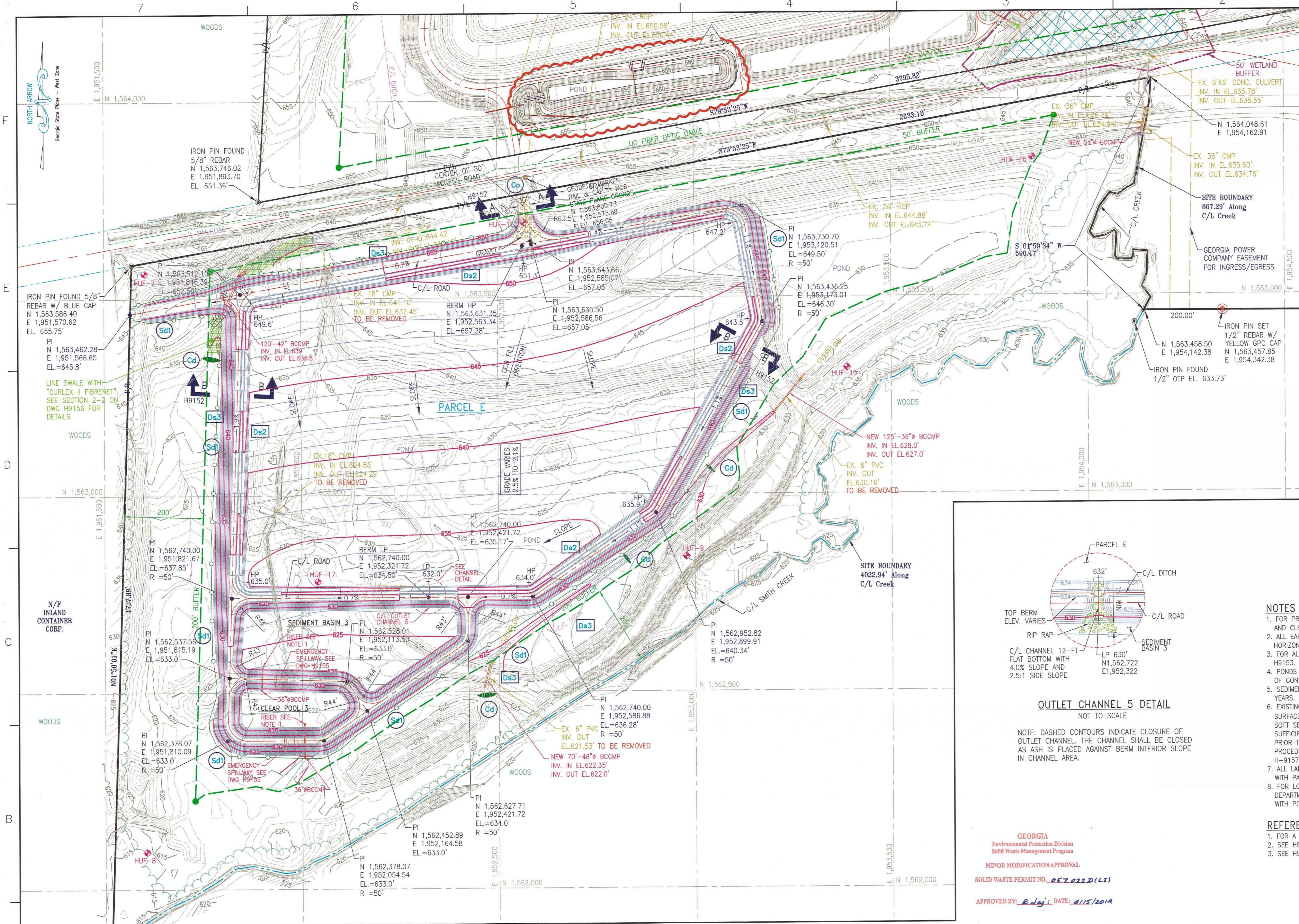
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

SECTION OR DETAIL NO.
SHEET WHERE SHOWN
REFERENCE KEY

REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVIL APPR	ELECT APPR
		I/C APPR	MECH APPR
		MGR APPR	
TJ	DEH	JAS	

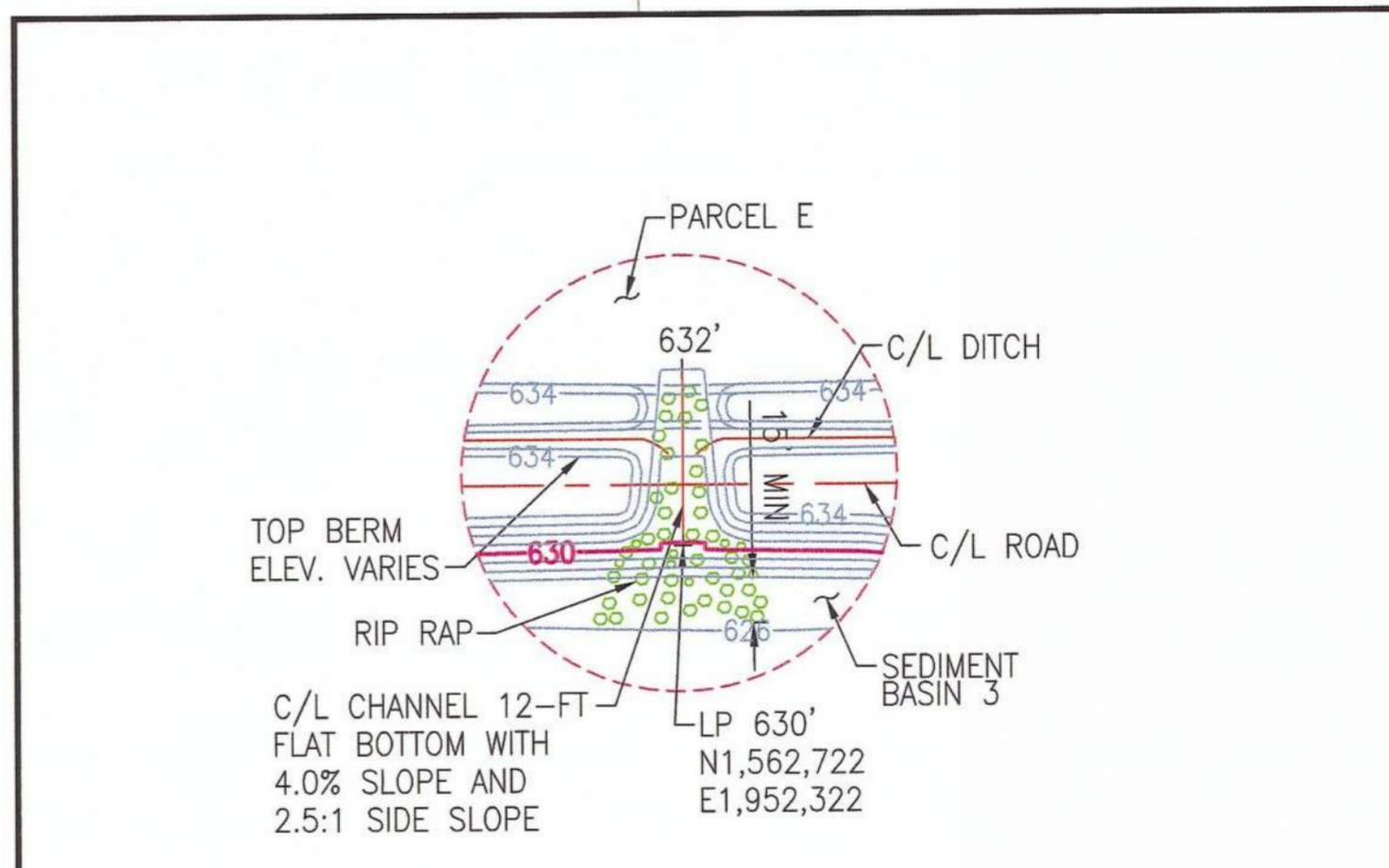
Stantec Consulting Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND – HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCEL C & D
CAP GEOMEMBRANE LIMITS PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTO	REV
1"=100'	175618707	S1805	1	FINAL	0



- LEGEND:**
- BORING/TEMPORARY PIEZOMETER LOCATION
 - PROPERTY LINE
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - EXIST. GROUND CONTOURS
 - FINISH GRADING CONTOURS
 - GEODETIC MARKER
 - DISTRIBUTION POST (ELECTR.)
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - 8% SLOPE GRADIENT
 - DISPOSAL SITE BOUNDARY
 - GRAVEL SURFACE
 - TURF REINFORCEMENT (CURLEX II FIBRENET)
 - RIP RAP

- EROSION CONTROL LEGEND:**
- CHECK DAM
 - CONSTRUCTION EXIT
 - SILT FENCE
 - AREA STABILIZATION (TEMPORARY VEGETATION)
 - AREA STABILIZATION (PERMANENT VEGETATION)



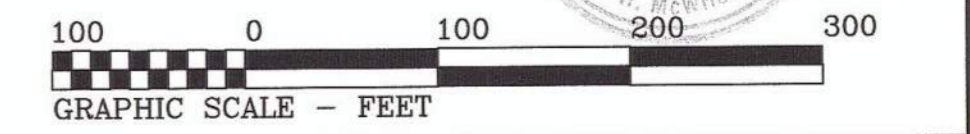
OUTLET CHANNEL 5 DETAIL
NOT TO SCALE

NOTE: DASHED CONTOURS INDICATE CLOSURE OF OUTLET CHANNEL. THE CHANNEL SHALL BE CLOSED AS ASH IS PLACED AGAINST BERM INTERIOR SLOPE IN CHANNEL AREA.

- NOTES**
- FOR PROFILES OF RISERS & OUTLET PIPES, AND OTHER SEDIMENT BASIN AND CLEAR POOL INFORMATION, SEE DRAWING H9155.
 - ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A MAXIMUM HORIZONTAL ACCELERATION OF 0.22g.
 - FOR ALL CULVERT PIPE MATERIALS AND PIPE BEDDING DETAILS SEE DWG. H9153.
 - PONDS WITHIN CELL CONSTRUCTION AREA WILL BE DRAINED PRIOR TO START OF CONSTRUCTION.
 - SEDIMENT BASIN ARE DESIGNED TO HANDLE HYDRAULIC LOADING FOR 100 YEARS, 24 HOURS STORM AND SEDIMENT LOAD FOR LIFE OF SITE.
 - EXISTING PONDS WITHIN AREAS TO BE GRADED WILL BE DRAINED AND ANY SURFACE WATER IN-FLOWS ROUTED AWAY FROM THE POND/FILL AREAS. ANY SOFT SEDIMENTS WILL BE REMOVED AND THE SURGRADE ALLOWED TO DRY SUFFICIENTLY TO ALLOW PROOF-ROLLING OPERATIONS TO BE PERFORMED PRIOR TO FILLING OPERATIONS. PROOF-ROLLING WILL FOLLOW THE PROCEDURES FOR FOUNDATION PREPARATION SPECIFIED ON DRAWING H-9157, GENERAL NOTE 13.
 - ALL LANDSCAPING IN BUFFER ZONES WILL BE PERFORMED CONCURRENT WITH PARCELS A AND B DEVELOPMENT.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

- REFERENCES**
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 - SEE H9157 FOR GENERAL NOTES.
 - SEE H9223 THROUGH H9227 FOR LANDSCAPE PLANS.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057.022D(L1)
APPROVED BY: *R. Jay* DATE: 4/15/2014

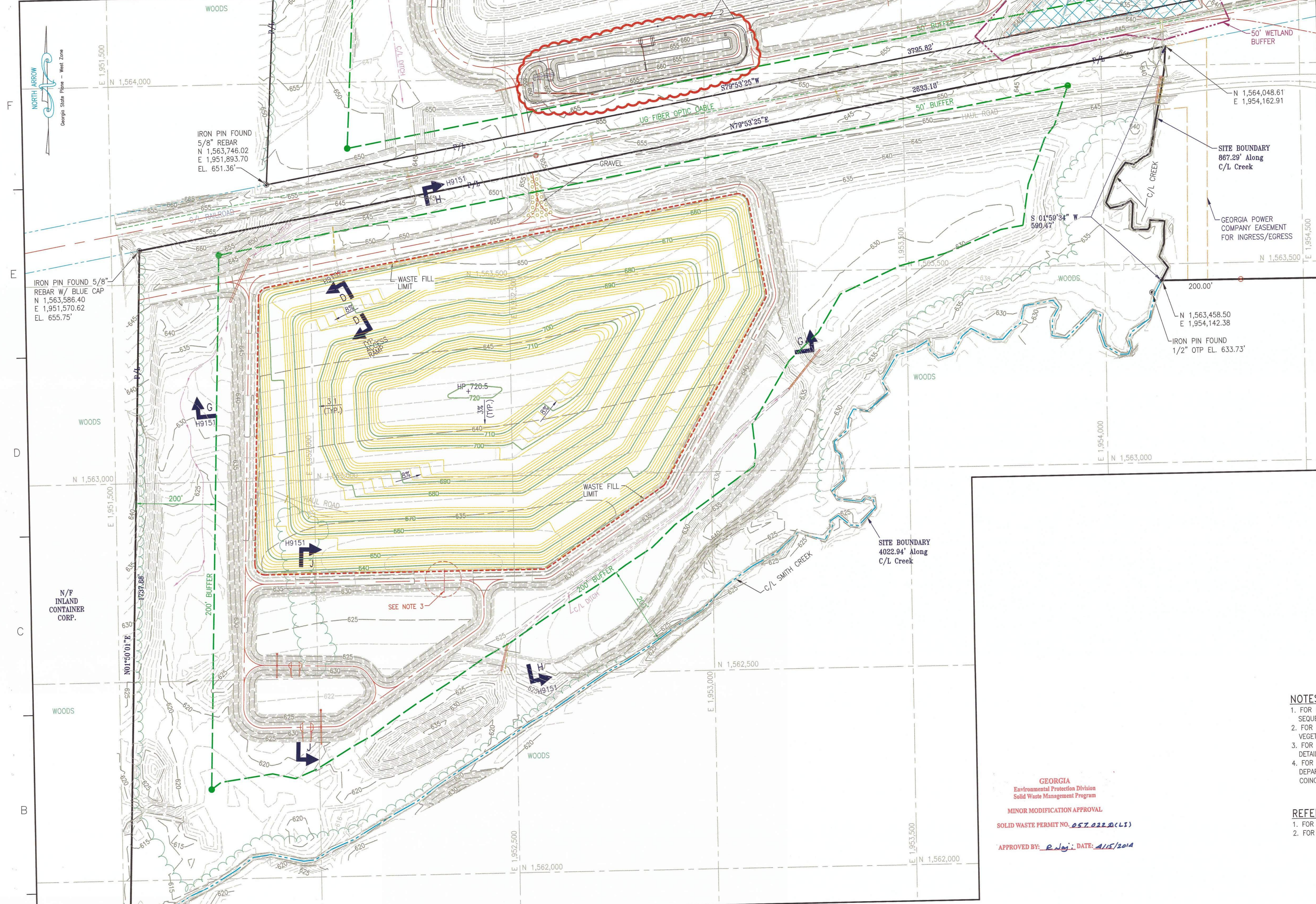


REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PED12687

REVISION	DATE	REVISION	DATE	REVISION	DATE
2	08/19/2013	1	09/15/2005	0	09/27/04
ISSUED FOR MINOR MODIFICATION		RE-ISSUED FOR PERMIT		ISSUED FOR PERMIT	
MWO: GPC232851,55,56,58 GPC232870,74,76,77	HAMMOND UNITS 1-4 MATS PROJECT	REA: HM01208	EWO: 3158CG	REA: HM01208	EWO: 3158CG
BY: CRU CHK'D: MHL CIVIL APPR: LHB ELECT APPR: LVC APPR: MECH APPR: KAM MGR APPR: KAM	BY: JDM CHK'D: GHM CIVIL APPR: ELM ELECT APPR: LVC APPR: MECH APPR: MGR APPR: JDM	BY: JDM CHK'D: GHM CIVIL APPR: ELM ELECT APPR: LVC APPR: MECH APPR: MGR APPR: JDM	BY: JDM CHK'D: GHM CIVIL APPR: ELM ELECT APPR: LVC APPR: MECH APPR: MGR APPR: JDM	BY: JDM CHK'D: GHM CIVIL APPR: ELM ELECT APPR: LVC APPR: MECH APPR: MGR APPR: JDM	BY: JDM CHK'D: GHM CIVIL APPR: ELM ELECT APPR: LVC APPR: MECH APPR: MGR APPR: JDM

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCEL E
SITE DEVELOPMENT PLAN

SCALE: 1"=100'
DRAWING NUMBER: **H9140**
SHEET: 1 OF 1
DATE: FINAL



- LEGEND:**
- BORING/TEMPORARY PIEZOMETER LOCATION
 - PROPERTY LINE
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - EXIST. GROUND CONTOURS
 - 50' FINISH GRADING CONTOURS
 - GEODETIC MARKER
 - DISTRIBUTION POST (ELECTRICAL)
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - 8% SLOPE GRADIENT
 - DISPOSAL SITE BOUNDARY
 - WASTE FILL LIMITS

- NOTES**
- FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 - FOR DESIGN, CONSTRUCTION AND OPERATION NOTES, INCLUDING VEGETATION SCHEDULE, SEE H9158.
 - FOR DRAINAGE OUTLET CHANNEL CLOSURE, SEE OUTLET CHANNEL 5 DETAIL ON H9140.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

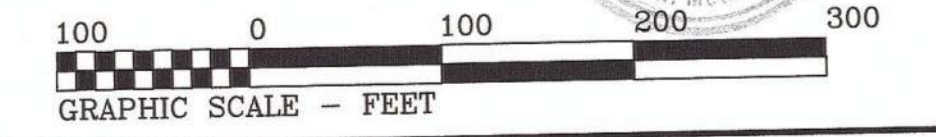
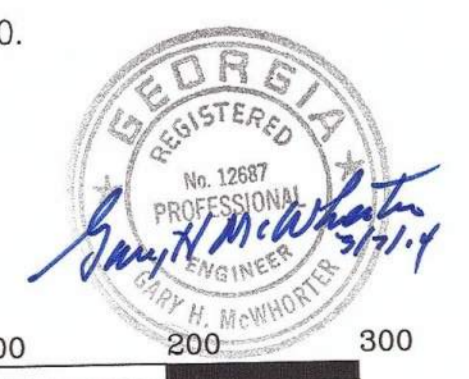
- REFERENCES**
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 - FOR DOWNDRAINS, SEE DRAWING H9144.

GEORGIA
Environmental Protection Division
Solid Waste Management Program

MINOR MODIFICATION APPROVAL

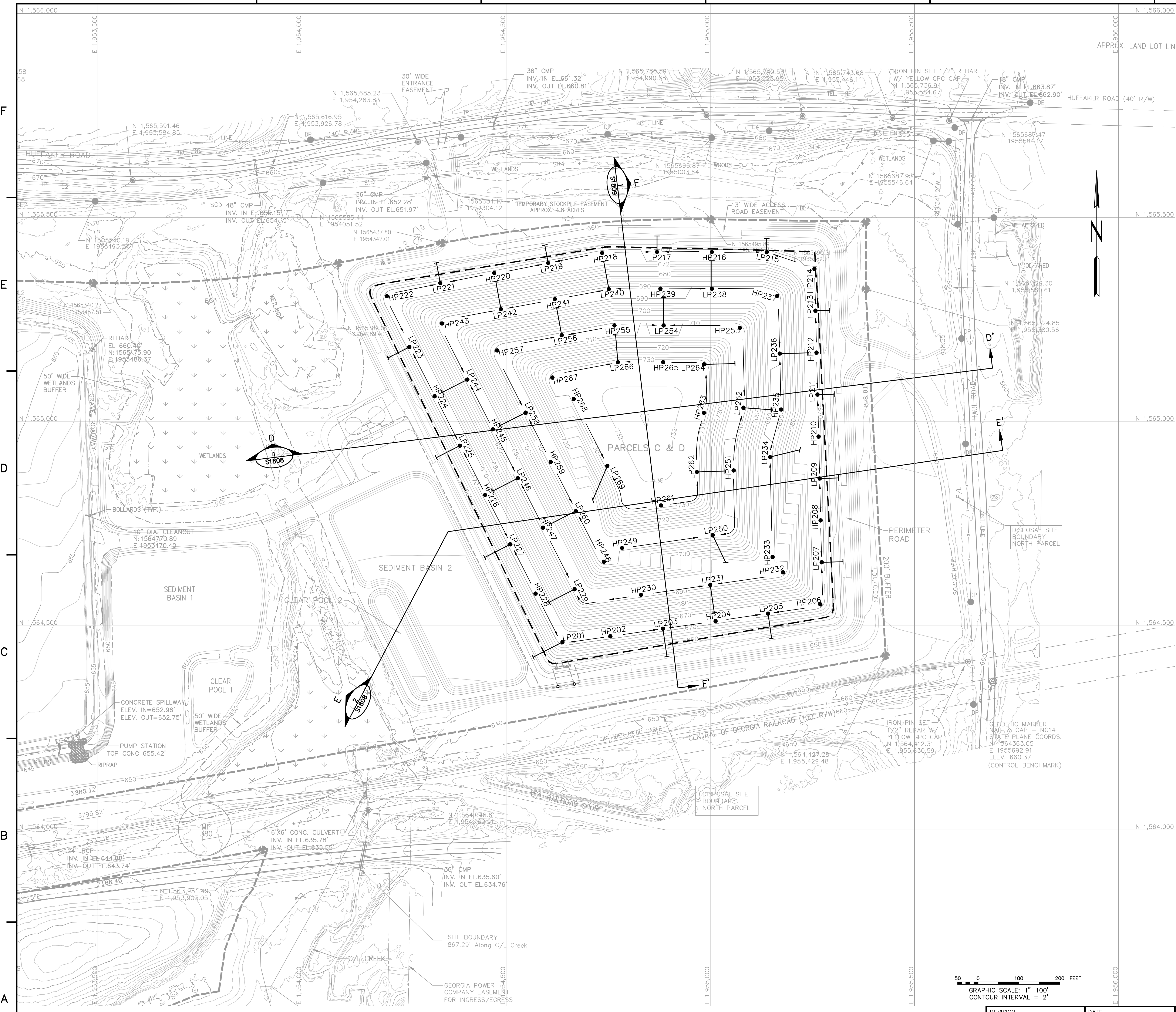
SOLID WASTE PERMIT NO. 057-0220(LTS)

APPROVED BY: R. Negi DATE: 4/15/2014



REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION 2 DATE 08/19/2013 ISSUED FOR MINOR MODIFICATION		REVISION 1 DATE 09/15/2005 RE-ISSUED FOR PERMIT		REVISION 0 DATE 09/27/04 ISSUED FOR PERMIT		Southern Company Services, Inc. FOR GEORGIA POWER COMPANY PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCEL E FINAL STACKING PLAN	
MWO: GPC232851,55,56,58 GPC232870,74,76,77 HAMMOND UNITS 1-4 MATS PROJECT		REA: HM01208		EWO: 3158CG		EWO: 3158CG	
BY: CRU	CHK'D: MHL	CIVL APPR: LHB	ELECT APPR:	L/C APPR:	MECH APPR:	MGR APPR: KAM	BY: JDM
							CHK'D: SHM
							CIVL APPR: RKF
							ELECT APPR: HP
							L/C APPR:
							MECH APPR:
							MGR APPR:
SCALE: 1"=100'		PROJ. I.D.:		DRAWING NUMBER: H9141		SH: 1	
						CONTD: FINAL	
						REV: 2	



- MAPPING NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 3. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

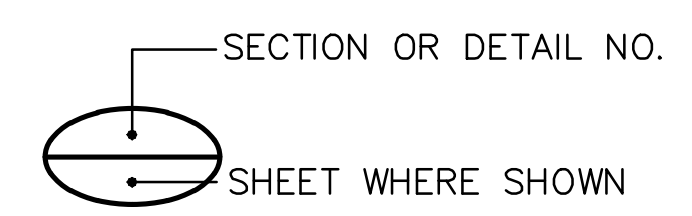
- LEGEND**
- 500- EXISTING INDEX CONTOUR
 - 600- EXISTING INTERMEDIATE CONTOUR
 - - - - - EDGE OF WATER
 - - - - - FLOOD HAZARD LIMITS
 - == ROAD
 - == ROAD CENTERLINE
 - - - - - TREE LINE
 - x- FENCE
 - E- ELECTRIC LINE
 - DP DISTRIBUTION POLE
 - T- TELEPHONE LINE
 - TP- TELEPHONE POLE
 - - - - - PROPERTY BOUNDARY
 - - - - - EASEMENT LINE
 - - - - - R.O.W. LINE
 - - - - - SITE BOUNDARY
 - - - - - BUFFER
 - - - - - WETLAND
 - - - - - 50' WETLAND BUFFER
 - 500- PROPOSED FINAL GRADE INDEX CONTOUR
 - 600- PROPOSED FINAL GRADE INTERMEDIATE CONTOUR
 - - - - - LIMITS OF WASTE
 - - - - - DOWNDRAIN
 - - - - - SURFACE RUNOFF DIRECTION
 - HP210 ● HIGH POINT
 - LP205 ● LOW POINT

TABLE OF DRAIN POINTS COORDINATES

POINT	NORTHING	EASTING	ELEVATION (FEET)	POINT	NORTHING	EASTING	ELEVATION (FEET)
LP201	1,564,460.25	1,954,637.97	668.0	LP236	1,565,167.03	1,955,170.04	688.0
HP202	1,564,474.32	1,954,755.36	669.5	HP237	1,565,308.40	1,955,163.85	689.5
LP203	1,564,493.16	1,954,883.99	668.5	LP238	1,565,325.73	1,955,003.71	688.0
HP204	1,564,511.44	1,955,012.70	669.5	HP239	1,565,325.92	1,954,878.02	689.5
LP205	1,564,530.00	1,955,141.37	668.0	LP240	1,565,325.01	1,954,751.44	688.0
HP206	1,564,552.82	1,955,269.43	669.5	HP241	1,565,300.45	1,954,619.29	689.5
LP207	1,564,655.68	1,955,272.76	668.0	LP242	1,565,275.90	1,954,487.13	688.0
HP208	1,564,758.40	1,955,270.23	669.5	HP243	1,565,240.83	1,954,342.76	689.5
LP209	1,564,861.12	1,955,267.70	668.0	LP244	1,565,103.49	1,954,404.89	688.0
HP210	1,564,963.84	1,955,265.17	669.5	HP245	1,564,981.39	1,954,467.30	689.5
LP211	1,565,066.56	1,955,262.63	668.0	LP246	1,564,861.58	1,954,528.54	688.0
HP212	1,565,169.28	1,955,260.10	669.5	HP247	1,564,740.88	1,954,590.24	689.5
LP213	1,565,272.00	1,955,257.57	668.0	HP248	1,564,657.00	1,954,739.18	709.5
HP214	1,565,374.38	1,955,255.04	669.5	HP249	1,564,690.81	1,954,783.77	709.5
LP215	1,565,415.53	1,955,138.28	668.0	LP250	1,564,722.14	1,955,005.74	708.0
HP216	1,565,415.73	1,955,003.88	669.5	HP251	1,564,880.60	1,955,057.23	709.5
LP217	1,565,415.93	1,954,869.48	668.0	LP252	1,565,034.35	1,955,081.34	708.0
HP218	1,565,413.51	1,954,734.94	669.5	HP253	1,565,230.17	1,955,072.49	709.5
LP219	1,565,388.93	1,954,602.81	668.0	LP254	1,565,235.91	1,954,885.65	708.0
HP220	1,565,364.38	1,954,470.67	669.5	HP255	1,565,235.97	1,954,765.37	709.5
LP221	1,565,339.82	1,954,338.53	668.0	LP256	1,565,212.01	1,954,635.98	708.0
HP222	1,565,307.68	1,954,207.80	669.5	HP257	1,565,174.82	1,954,478.19	709.5
LP223	1,565,183.20	1,954,262.76	668.0	LP258	1,565,022.42	1,954,547.41	708.0
HP224	1,565,062.35	1,954,324.59	669.5	HP259	1,564,901.59	1,954,609.17	709.5
LP225	1,564,941.49	1,954,386.42	668.0	LP260	1,564,781.26	1,954,670.68	708.0
HP226	1,564,820.64	1,954,448.25	669.5	HP261	1,564,794.98	1,954,879.04	729.5
LP227	1,564,699.79	1,954,510.07	668.0	LP262	1,564,877.01	1,954,967.29	728.0
HP228	1,564,578.93	1,954,571.90	669.5	HP263	1,565,021.82	1,954,984.42	729.5
LP229	1,564,589.66	1,954,667.54	688.0	LP264	1,565,140.60	1,954,984.38	728.0
HP230	1,564,576.05	1,954,830.22	689.5	HP265	1,565,145.91	1,954,884.69	729.5
LP231	1,564,600.53	1,954,999.95	688.0	LP266	1,565,145.96	1,954,773.62	728.0
HP232	1,564,631.12	1,955,178.51	689.5	HP267	1,565,108.38	1,954,613.23	729.5
LP233	1,564,668.71	1,955,152.38	689.5	HP268	1,565,055.65	1,954,665.40	729.5
LP234	1,564,913.60	1,955,146.46	688.0	LP269	1,564,891.90	1,954,747.81	728.0
HP235	1,565,030.06	1,955,173.47	689.5				



GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'



REFERENCE KEY

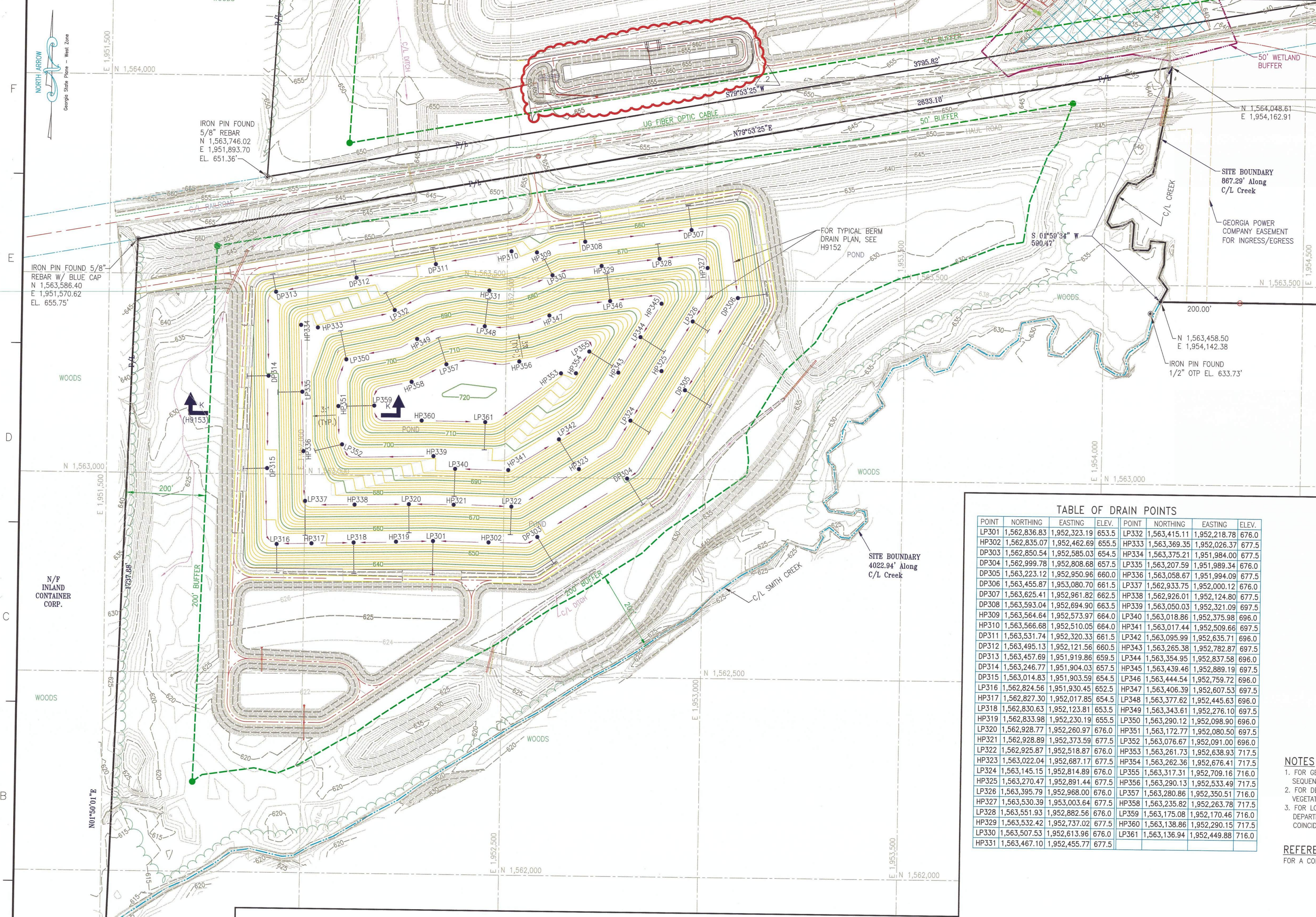
REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVL APPR	ELECT APPR
TJ	DEH	JAS	

Stantec Consulting Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
DOWNDRAIN PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTO	REV
1"=100'	175618707	S1806	1	FINAL	0



- LEGEND:**
- DOWNDRAIN (FOR PIPE SIZE SEE DWG. H9153)
 - SURFACE RUNOFF DIRECTION
 - HP309 HIGH POINT
 - LP316 LOW POINT
 - DP303 DRAIN POINT
 - ⊕ HUF-1 BORING/TEMPORARY PIEZOMETER LOCATION
 - P/L PROPERTY LINE
 - DISPOSAL SITE BOUNDARY
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - 50' EXIST. GROUND CONTOURS
 - 50' STACKING CONTOURS
 - ⊙ GEODETIC MARKER
 - ⊙ DP DISTRIBUTION POST (ELECTRICAL)
 - ⊙ TP TELEPHONE POST
 - ⊞ JURISDICTIONAL WETLAND BOUNDARY
 - ⊞ NON-JURISDICTIONAL WETLAND BOUNDARY

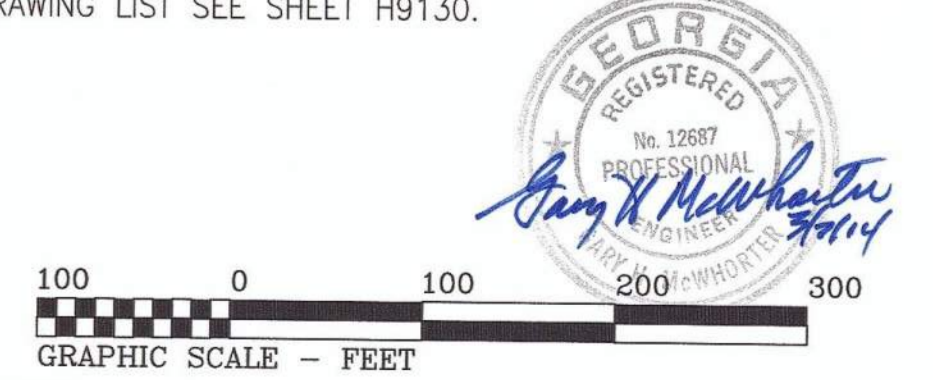
TABLE OF DRAIN POINTS

POINT	NORTHING	EASTING	ELEV.	POINT	NORTHING	EASTING	ELEV.
LP301	1,562,836.83	1,952,323.19	653.5	LP332	1,563,415.11	1,952,218.78	676.0
HP302	1,562,835.07	1,952,462.69	655.5	HP333	1,563,369.35	1,952,026.37	677.5
DP303	1,562,850.54	1,952,585.03	654.5	HP334	1,563,375.21	1,951,984.00	677.5
LP304	1,562,999.78	1,952,808.68	657.5	LP335	1,563,207.59	1,951,989.34	676.0
DP305	1,563,223.12	1,952,950.96	660.0	HP336	1,563,058.67	1,951,994.09	677.5
DP306	1,563,455.87	1,953,080.70	661.5	LP337	1,562,933.75	1,952,000.12	676.0
DP307	1,563,625.41	1,952,961.82	662.5	HP338	1,562,926.01	1,952,124.80	677.5
DP308	1,563,593.04	1,952,694.90	663.5	HP339	1,563,050.03	1,952,321.09	697.5
HP309	1,563,564.64	1,952,573.97	664.0	LP340	1,563,018.86	1,952,375.98	696.0
HP310	1,563,566.68	1,952,510.05	664.0	HP341	1,563,017.44	1,952,509.66	697.5
DP311	1,563,531.74	1,952,320.33	661.5	LP342	1,563,095.99	1,952,635.71	696.0
DP312	1,563,495.13	1,952,121.56	660.5	HP343	1,563,265.38	1,952,782.87	697.5
DP313	1,563,457.69	1,951,919.86	659.5	LP344	1,563,354.95	1,952,837.58	696.0
DP314	1,563,246.77	1,951,904.03	657.5	HP345	1,563,439.46	1,952,889.19	697.5
DP315	1,563,014.83	1,951,903.59	654.5	LP346	1,563,444.54	1,952,759.72	696.0
LP316	1,562,824.56	1,951,930.45	652.5	HP347	1,563,406.39	1,952,607.53	697.5
HP317	1,562,827.30	1,952,017.85	654.5	LP348	1,563,377.62	1,952,445.63	696.0
LP318	1,562,830.63	1,952,123.81	653.5	HP349	1,563,343.61	1,952,276.10	697.5
HP319	1,562,833.98	1,952,230.19	655.5	LP350	1,563,290.12	1,952,098.90	696.0
LP320	1,562,928.77	1,952,260.97	676.0	HP351	1,563,172.77	1,952,080.50	697.5
HP321	1,562,928.89	1,952,373.59	677.5	LP352	1,563,076.67	1,952,091.00	696.0
LP322	1,562,925.87	1,952,518.87	676.0	HP353	1,563,261.73	1,952,638.93	717.5
HP323	1,563,022.04	1,952,687.17	677.5	LP354	1,563,262.36	1,952,676.41	717.5
LP324	1,563,145.15	1,952,814.89	676.0	LP355	1,563,317.31	1,952,709.16	716.0
HP325	1,563,270.47	1,952,891.44	677.5	HP356	1,563,290.13	1,952,533.49	717.5
LP326	1,563,395.79	1,952,968.00	676.0	LP357	1,563,280.86	1,952,350.51	716.0
HP327	1,563,530.39	1,953,003.64	677.5	HP358	1,563,235.82	1,952,263.78	717.5
LP328	1,563,551.93	1,952,882.56	676.0	LP359	1,563,175.08	1,952,170.46	716.0
HP329	1,563,532.42	1,952,737.02	677.5	HP360	1,563,138.86	1,952,290.15	717.5
LP330	1,563,507.53	1,952,613.96	676.0	LP361	1,563,136.94	1,952,449.88	716.0
HP331	1,563,467.10	1,952,455.77	677.5				

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-022-D(L1)
APPROVED BY: *R. Naji* DATE: 4/15/2014

- NOTES**
- FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 - FOR DESIGN, CONSTRUCTION AND OPERATION NOTES, INCLUDING VEGETATION SCHEDULE, SEE H9158.
 - FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

REFERENCES
FOR A COMPLETE DRAWING LIST SEE SHEET H9130.



REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PED12687

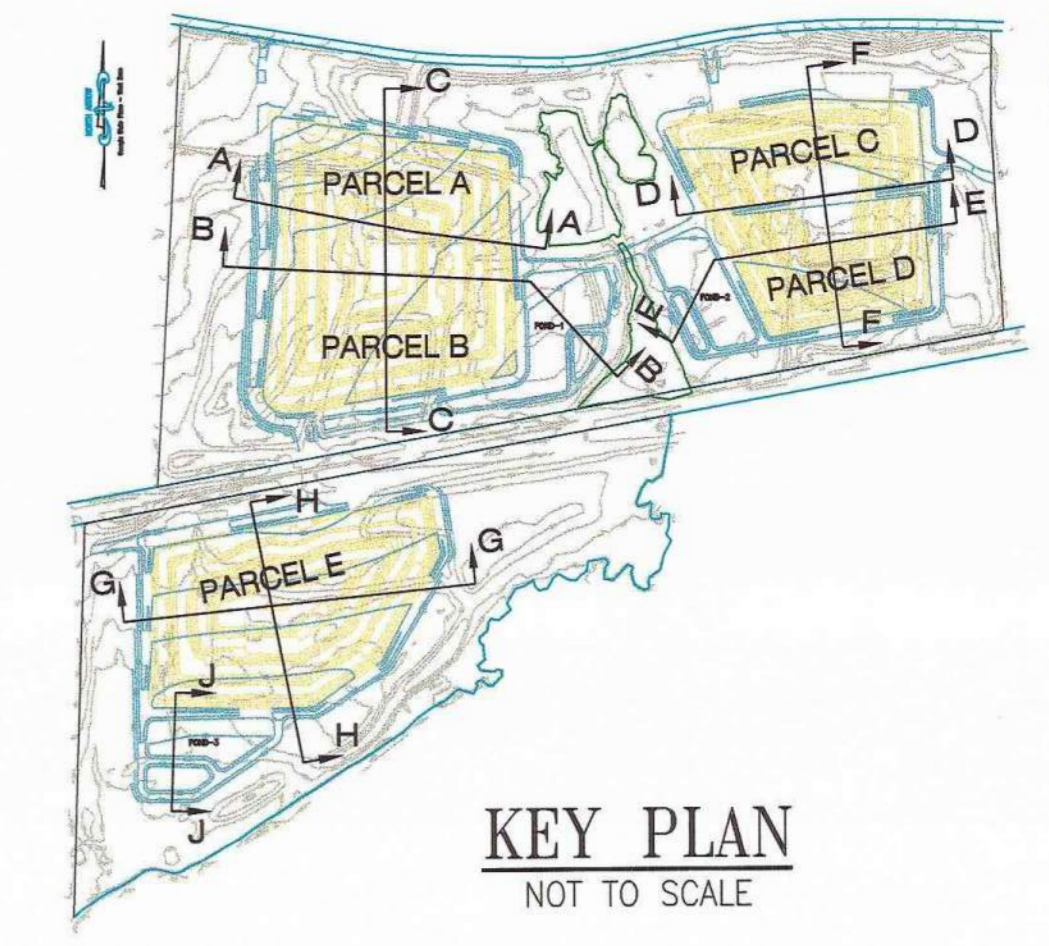
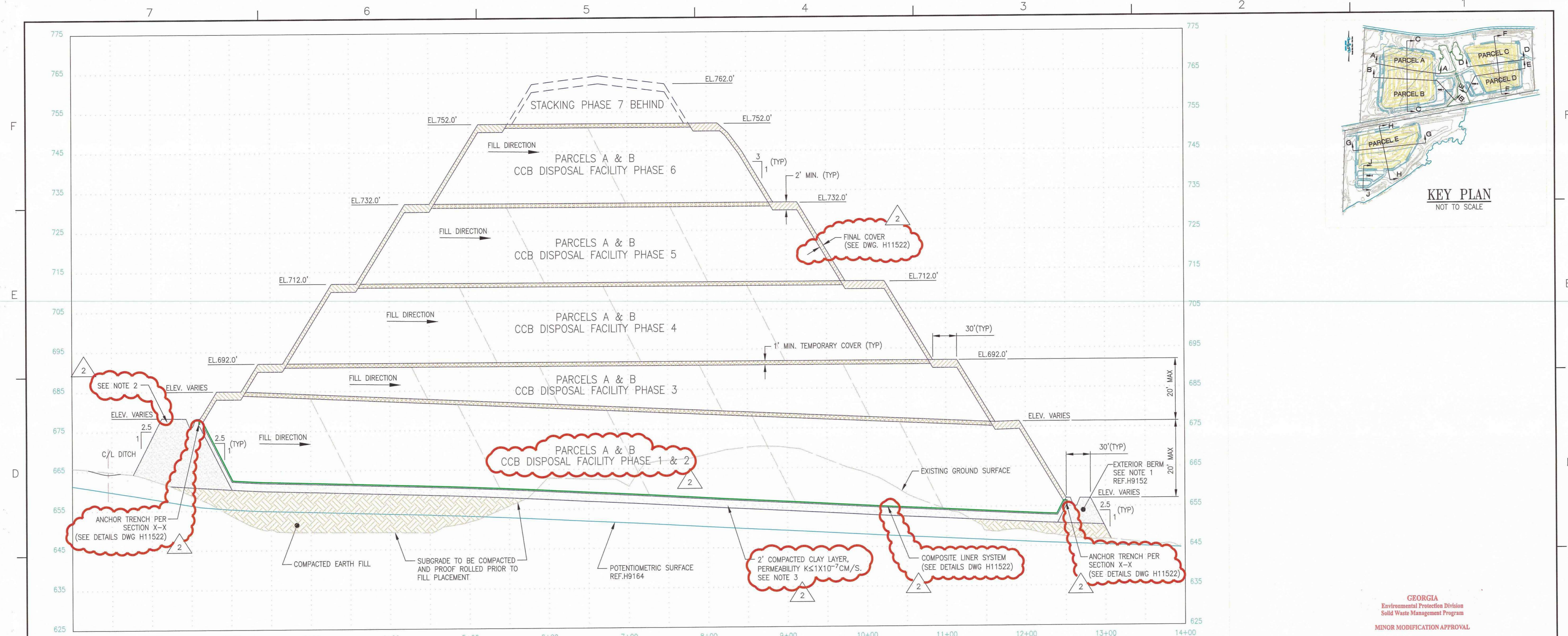
REVISION 2 ISSUED FOR MINOR MODIFICATION MWO: GPC232851,55,56,58 GPC232870,74,76,77	DATE 08/19/2013	REVISION 1 RE-ISSUED FOR PERMIT	DATE 09/15/2005	REVISION 0 ISSUED FOR PERMIT	DATE 09/27/04
BY: CRU CHK'D: MHL CIVIL APPR: LHB ELECT APPR: [X] I/C APPR: [X] MECH APPR: [X] MGR APPR: KAM	DATE: 08/19/2013	BY: JDM CHK'D: GHM CIVIL APPR: ELM ELECT APPR: [X] I/C APPR: [X] MECH APPR: [X] MGR APPR: [X]	DATE: 09/15/2005	BY: JDM CHK'D: GHM CIVIL APPR: HP ELECT APPR: [X] I/C APPR: [X] MECH APPR: [X] MGR APPR: [X]	DATE: 09/27/04
PROJECT: HAMMOND UNITS 1-4 MATS PROJECT	PROJECT: HAMMOND UNITS 1-4 MATS PROJECT	PROJECT: HAMMOND UNITS 1-4 MATS PROJECT	PROJECT: HAMMOND UNITS 1-4 MATS PROJECT	PROJECT: HAMMOND UNITS 1-4 MATS PROJECT	PROJECT: HAMMOND UNITS 1-4 MATS PROJECT
RE: HM01208	RE: HM01208	RE: HM01208	RE: HM01208	RE: HM01208	RE: HM01208
EWO: 3158CG	EWO: 3158CG	EWO: 3158CG	EWO: 3158CG	EWO: 3158CG	EWO: 3158CG

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Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCEL E
DOWNDRAIN PLAN

SCALE: 1"=100'
PROJ. I.D.:
DRAWING NUMBER: **H9144**
SH: 1
CONT'D: FINAL
REV: 2

ANSI F: 28x40
Acad2004

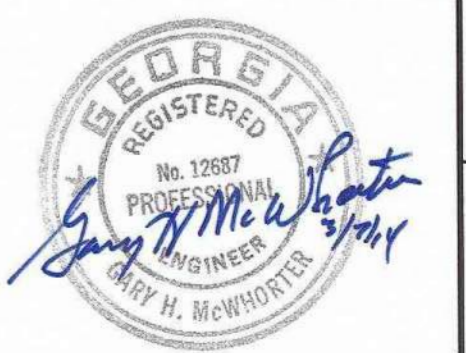


LONGITUDINAL SECTION A-A
 (FOR TRANSVERSE VIEW, SEE SECTION C-C, DWG. H9147)
 SCALE: H: 1"=50' V: 1"=10'

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program
 MINOR MODIFICATION APPROVAL
 SOLID WASTE PERMIT NO. 057 022 D(13)
 APPROVED BY: R. Saji DATE: 11/5/2014

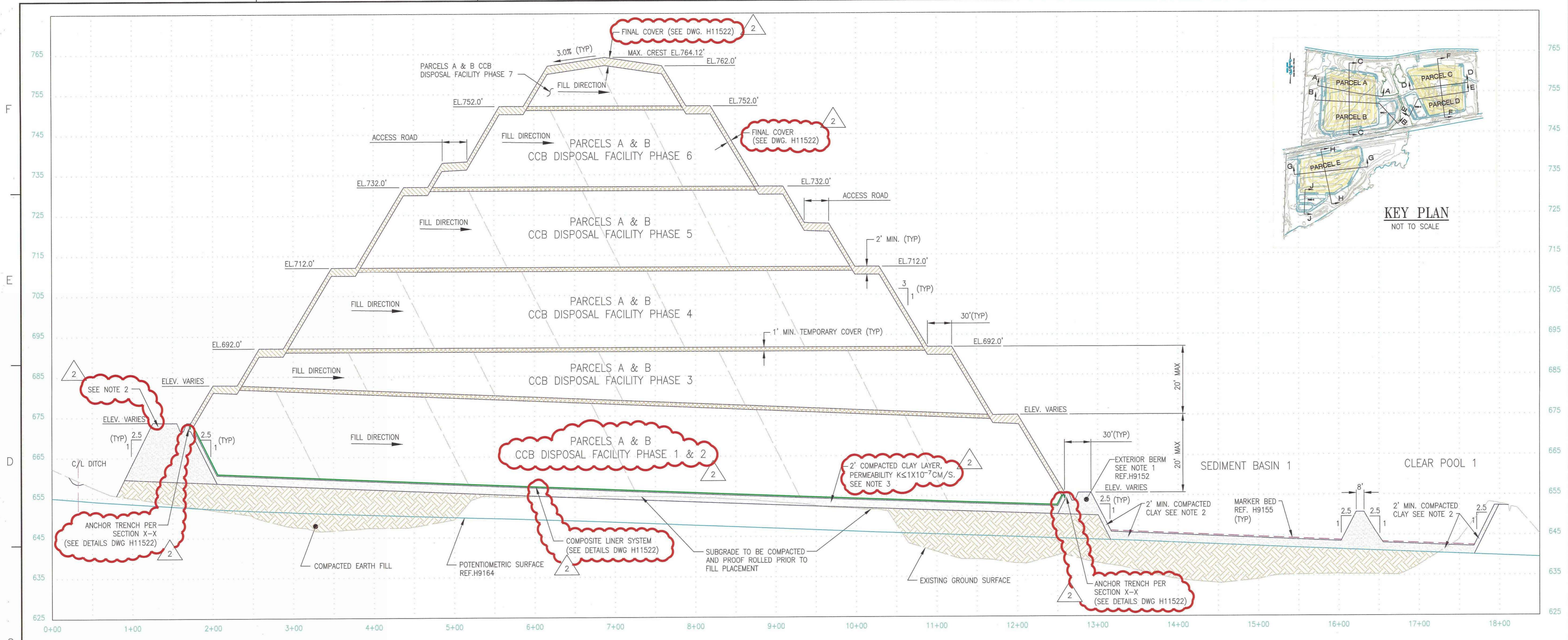
- NOTES**
1. ALL EXTERIOR BERMS AND DITCHES SHALL BE CONSTRUCTED OF APPROVED SANDY CLAY/CLAYEY SAND FILL.
 2. THE UPPER 2 FEET OF SOIL OF PERIMETER BERMS AND WITHIN ALL SEDIMENT PONDS AND CLEAR PONDS SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-6} CM/SEC.
 3. FOR PARCELS A & B THE UPPER 2 FEET OF SOIL WITHIN THE STACKING PARCELS, INTERIOR SLOPES OF THE PERIMETER BERMS, AND THE LEACHATE POND SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-7} CM/SEC.

- REFERENCES**
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 2. SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.



REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION 2 DATE 08/19/2013 ISSUED FOR MINOR MODIFICATION MWO: GPC232851,55,56,58 HAMMOND UNITS 1-4 MATS PROJECT GPC232870,74,76,77		REVISION 1 DATE 09/15/2005 RE-ISSUED FOR PERMIT REA: HM01208 EWO: 3158CG		REVISION 0 DATE 09/27/04 ISSUED FOR PERMIT REA: HM01208 EWO: 3158CG		Southern Company Services, Inc. FOR GEORGIA POWER COMPANY PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A AND B LONGITUDINAL SECTION A-A																				
BY: CRU	CHK'D: MHL	CIVIL APPR: LHB	ELECT APPR:	L/C APPR:	MECH APPR:	MGR APPR: KAM	BY: JDM	CHK'D: GHM	CIVIL APPR: ELM	ELECT APPR:	L/C APPR:	MECH APPR:	MGR APPR:	BY: JDM	CHK'D: KKF	CIVIL APPR: GHM	ELECT APPR: HP	L/C APPR:	MECH APPR:	MGR APPR:	SCALE: AS SHOWN	PROJ. I.D.:	DRAWING NUMBER: H9145	SH: 1	CONTD: FINAL	REV: 2

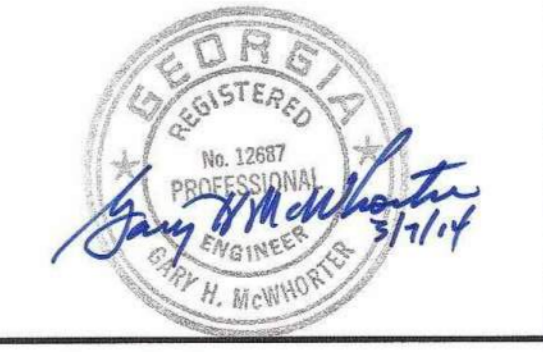


LONGITUDINAL SECTION B-B
 (FOR TRANSVERSE VIEW, SEE SECTION C-C, DWG. H9147)
 SCALE: H: 1"=50' V: 1"=10'

- NOTES**
1. ALL EXTERIOR BERMS AND DITCHES SHALL BE CONSTRUCTED OF APPROVED SANDY CLAY/CLAYEY SAND FILL.
 2. THE UPPER 2 FEET OF SOIL OF PERIMETER BERMS AND WITHIN ALL SEDIMENT PONDS AND CLEAR PONDS SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-6} CM/SEC.
 3. FOR PARCELS A & B THE UPPER 2 FEET OF SOIL WITHIN THE STACKING PARCELS, INTERIOR SLOPES OF THE PERIMETER BERMS, AND THE LEACHATE POND SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-7} CM/SEC.

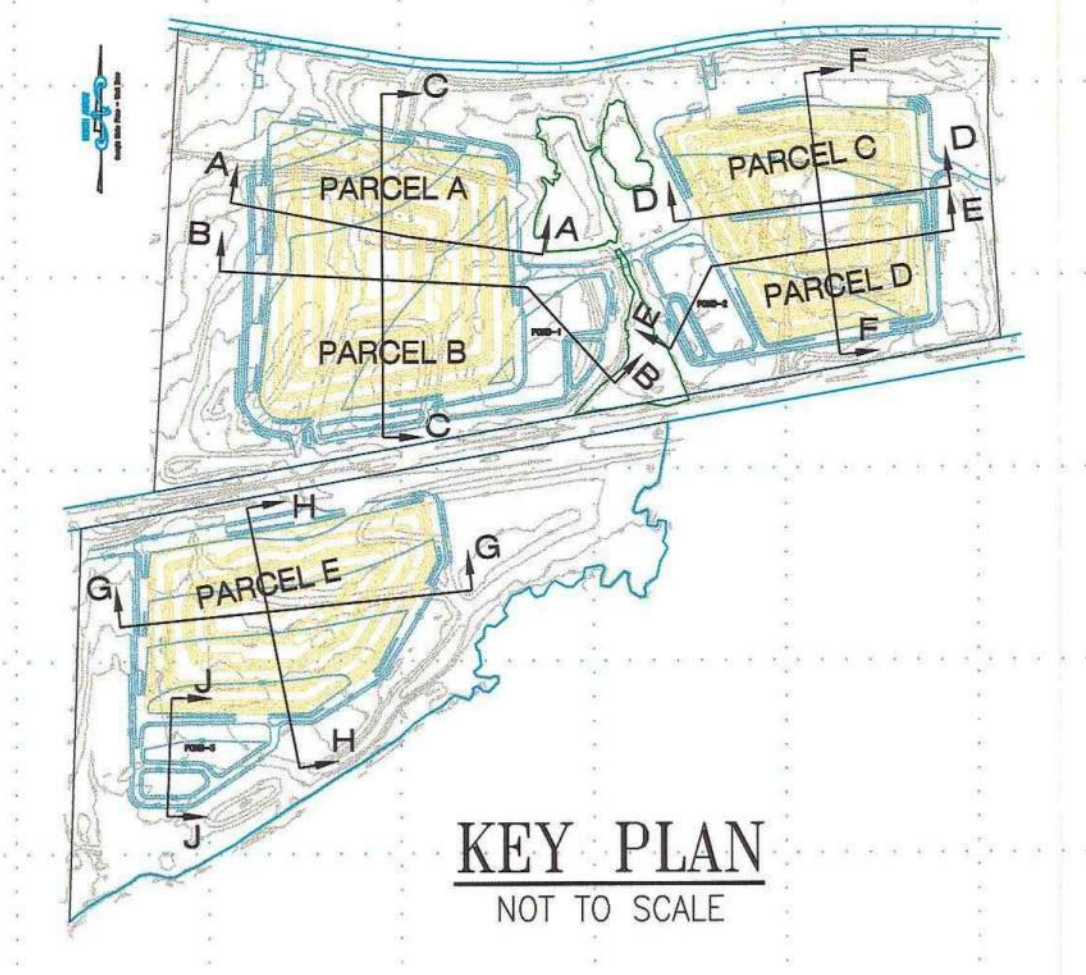
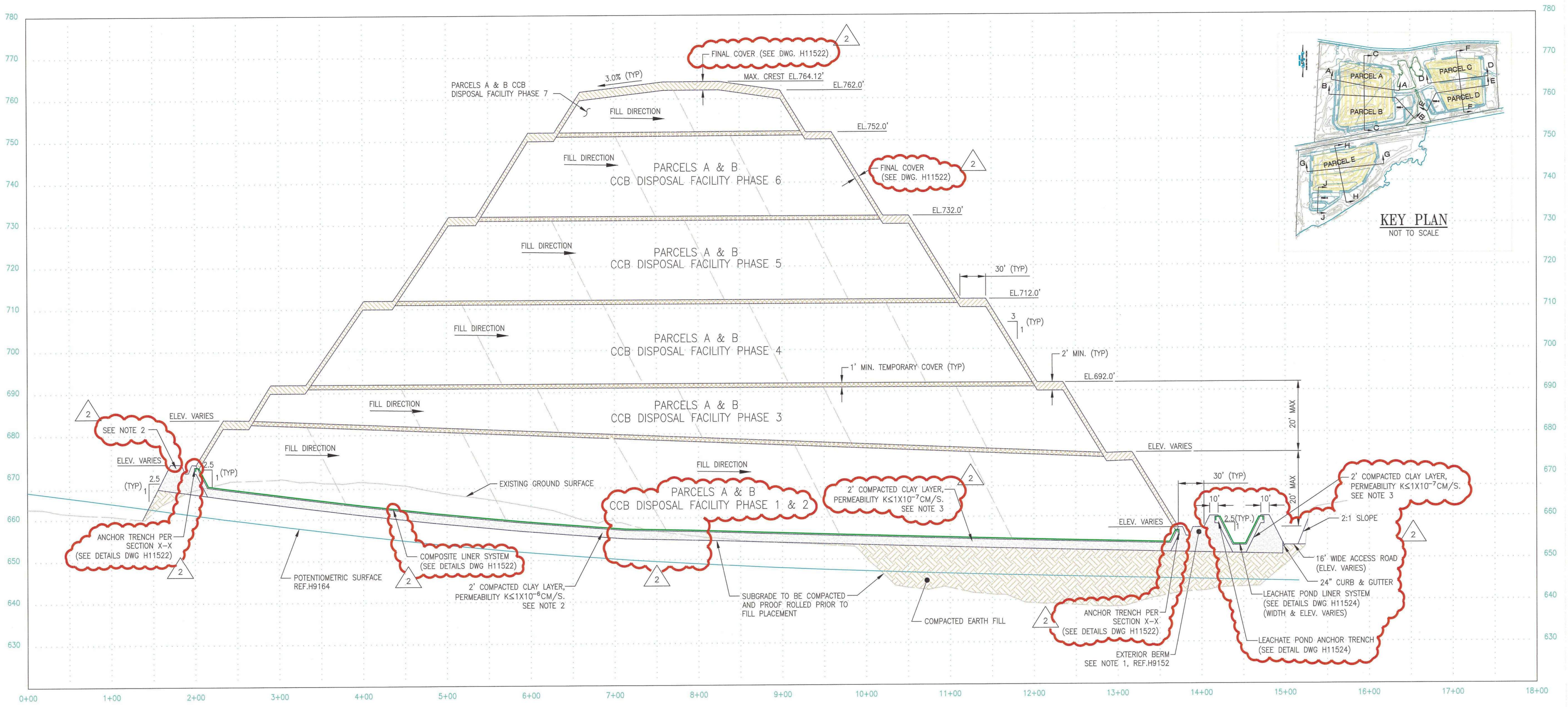
- REFERENCES**
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 2. SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program
 MINOR MODIFICATION APPROVAL
 SOLID WASTE PERMIT NO. 057.022 D(L1)
 APPROVED BY: *R. L. [Signature]* DATE: 4/15/2014



REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION 2 DATE 08/19/2013 ISSUED FOR MINOR MODIFICATION MWO: GPC232851,55,56,58 HAMMOND UNITS 1-4 GPC232870,74,76,77 MATS PROJECT		REVISION 1 DATE 09/15/2005 RE-ISSUED FOR PERMIT REA: HMO1208 EWO: 3158CG		REVISION 0 DATE 09/27/04 ISSUED FOR PERMIT REA: HMO1208 EWO: 3158CG		Southern Company Services, Inc. FOR GEORGIA POWER COMPANY PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A AND B LONGITUDINAL SECTION B-B																				
BY: CRU	CHK'D: MHL	CIVIL APPR: LHB	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: KAM	BY: JDM	CHK'D: GHM	CIVIL APPR: ELM	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: [X]	BY: JDM	CHK'D: KKF	CIVIL APPR: HP	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: [X]	SCALE: AS SHOWN	PROJ. I.D.: H9146	DRAWING NUMBER: 1	SH: FINAL	CONT'D: 2	REV: 2



TRANSVERSE SECTION C-C

(FOR TRANSVERSE VIEWS, SEE SECTIONS A-A, DWG. H9145 & B-B, DWG. H9146)
SCALE H: 1"=50' V: 1"=10'

NOTES

- ALL EXTERIOR BERMS AND DITCHES SHALL BE CONSTRUCTED OF APPROVED SANDY CLAY/CLAYEY SAND FILL.
- THE UPPER 2 FEET OF SOIL OF PERIMETER BERMS AND WITHIN ALL SEDIMENT PONDS AND CLEAR POOLS SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-6} CM/SEC.
- FOR PARCELS A & B THE UPPER 2 FEET OF SOIL WITHIN THE STACKING PARCELS, INTERIOR SLOPES OF THE PERIMETER BERMS, AND THE LEACHATE POND SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-7} CM/SEC.

REFERENCES

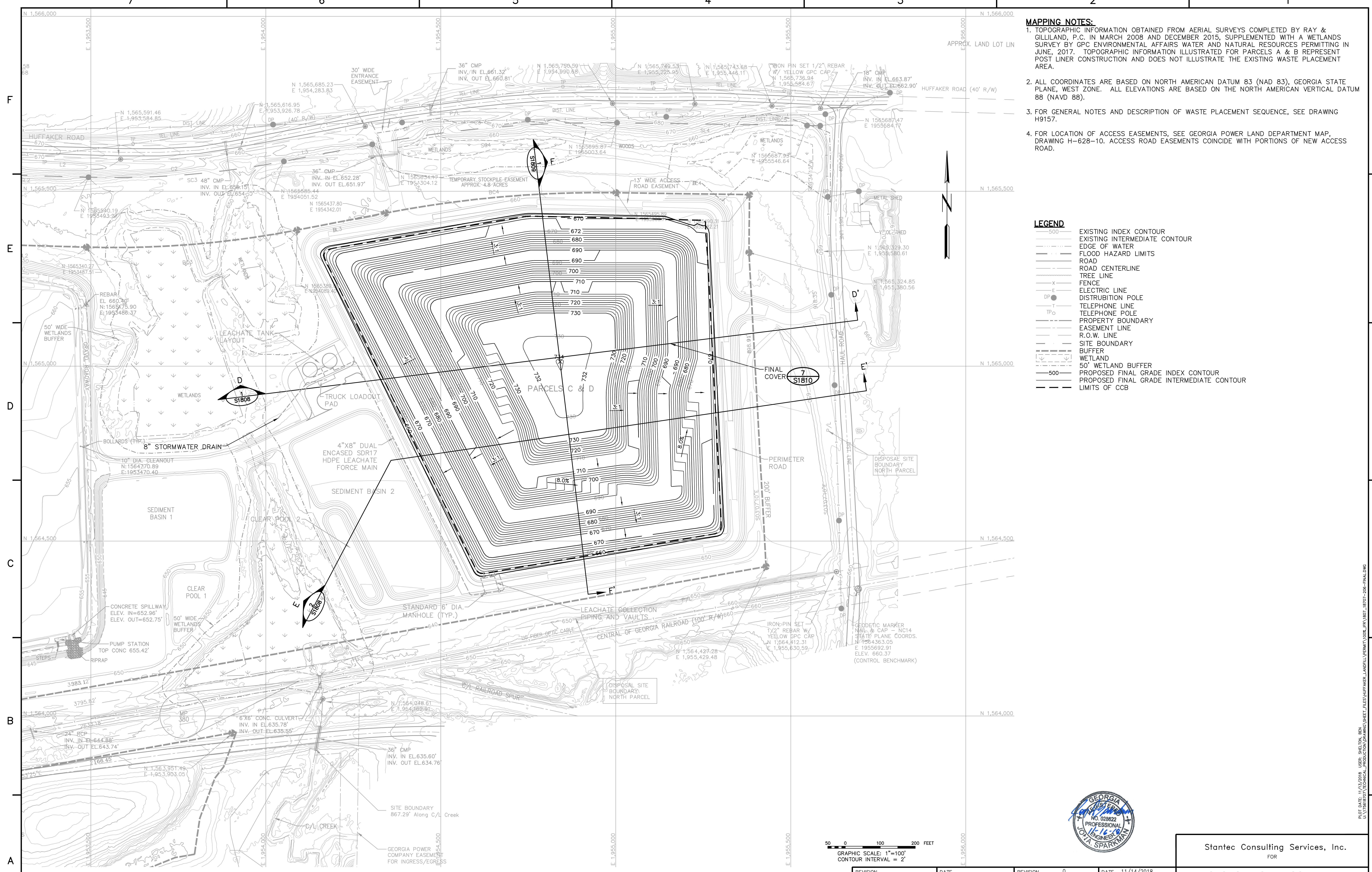
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
- SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057.022 D(L1)
APPROVED BY: R. W. J. DATE: 4/15/2014



REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

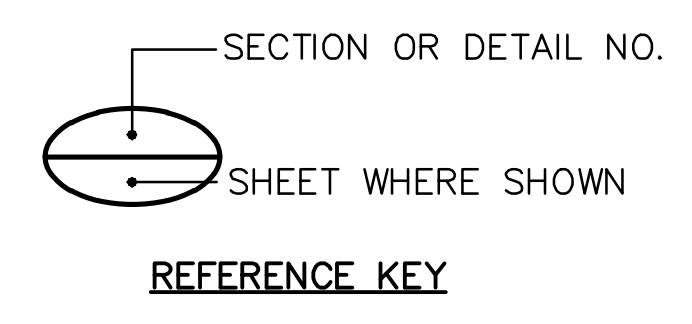
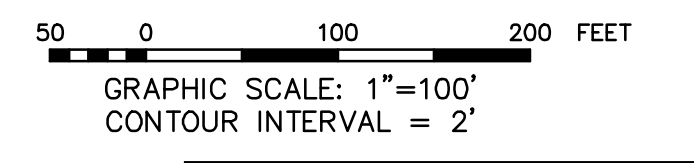
© Copyright, 2013, Southern Company Services, Inc. All Rights Reserved.												Southern Company Services, Inc. FOR														
REVISION 2 DATE 08/19/2013												REVISION 1 DATE 09/15/2005			REVISION 0 DATE 09/27/04											
ISSUED FOR MINOR MODIFICATION												RE-ISSUED FOR PERMIT			ISSUED FOR PERMIT											
MWO: GPC232851,55,56,58 HAMMOND UNITS 1-4 GPC232870,74,76,77 MATS PROJECT												REA: HM01208			EWO: 3158CG			REA: HM01208			EWO: 3158CG					
BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	MGR APPR	BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	MGR APPR	SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONTD	REV
CRU	MHL	LHB				KAM	JDM	GHM	ELM					JDM	KKE	GHM	HP				AS SHOWN		H9147	1	FINAL	2



- MAPPING NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM AERIAL SURVEYS COMPLETED BY RAY & GILLILAND, P.C. IN MARCH 2008 AND DECEMBER 2015, SUPPLEMENTED WITH A WETLANDS SURVEY BY GPC ENVIRONMENTAL AFFAIRS WATER AND NATURAL RESOURCES PERMITTING IN JUNE, 2017. TOPOGRAPHIC INFORMATION ILLUSTRATED FOR PARCELS A & B REPRESENT POST LINER CONSTRUCTION AND DOES NOT ILLUSTRATE THE EXISTING WASTE PLACEMENT AREA.
 2. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
 3. FOR GENERAL NOTES AND DESCRIPTION OF WASTE PLACEMENT SEQUENCE, SEE DRAWING H9157.
 4. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10. ACCESS ROAD EASEMENTS COINCIDE WITH PORTIONS OF NEW ACCESS ROAD.

LEGEND

	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	FLOOD HAZARD LIMITS
	ROAD
	ROAD CENTERLINE
	TREE LINE
	FENCE
	ELECTRIC LINE
	DISTRIBUTION POLE
	TELEPHONE LINE
	TELEPHONE POLE
	PROPERTY BOUNDARY
	EASEMENT LINE
	R.O.W. LINE
	SITE BOUNDARY
	BUFFER
	WETLAND
	50' WETLAND BUFFER
	PROPOSED FINAL GRADE INDEX CONTOUR
	PROPOSED FINAL GRADE INTERMEDIATE CONTOUR
	LIMITS OF CCB



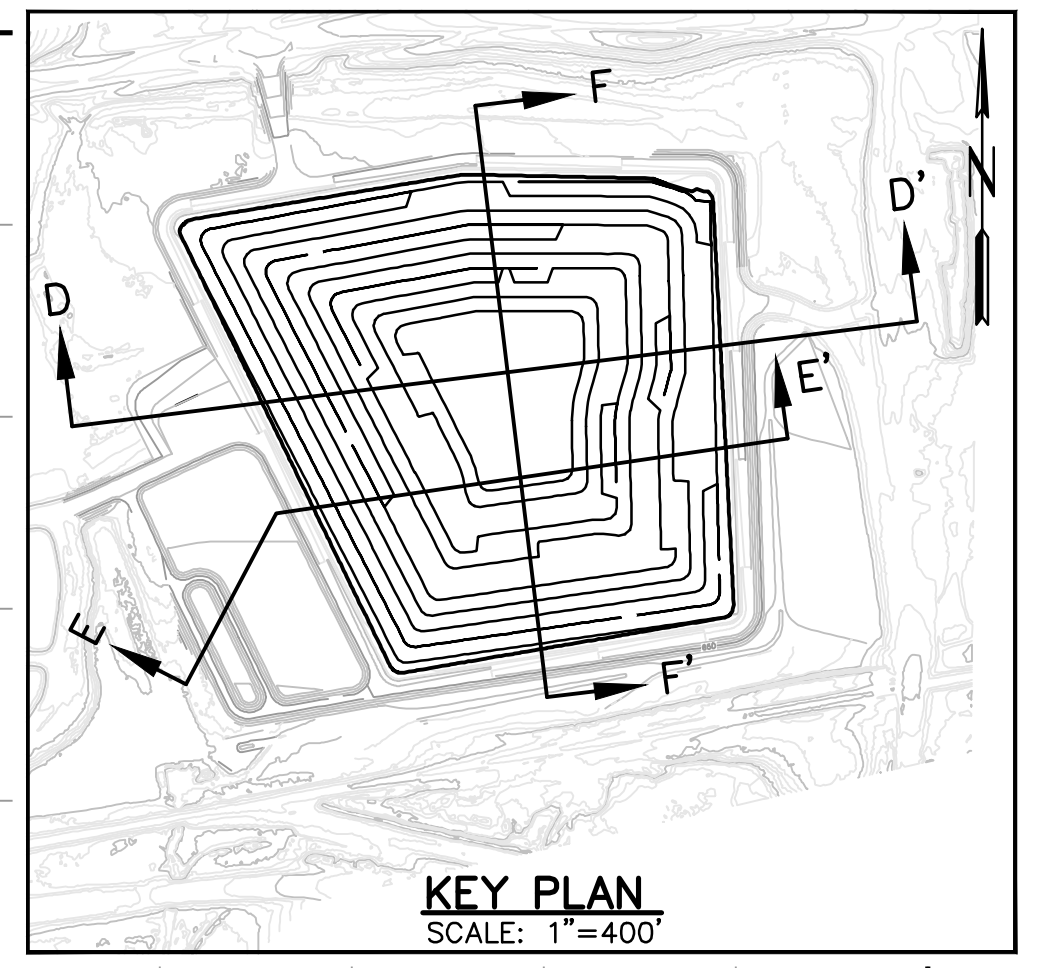
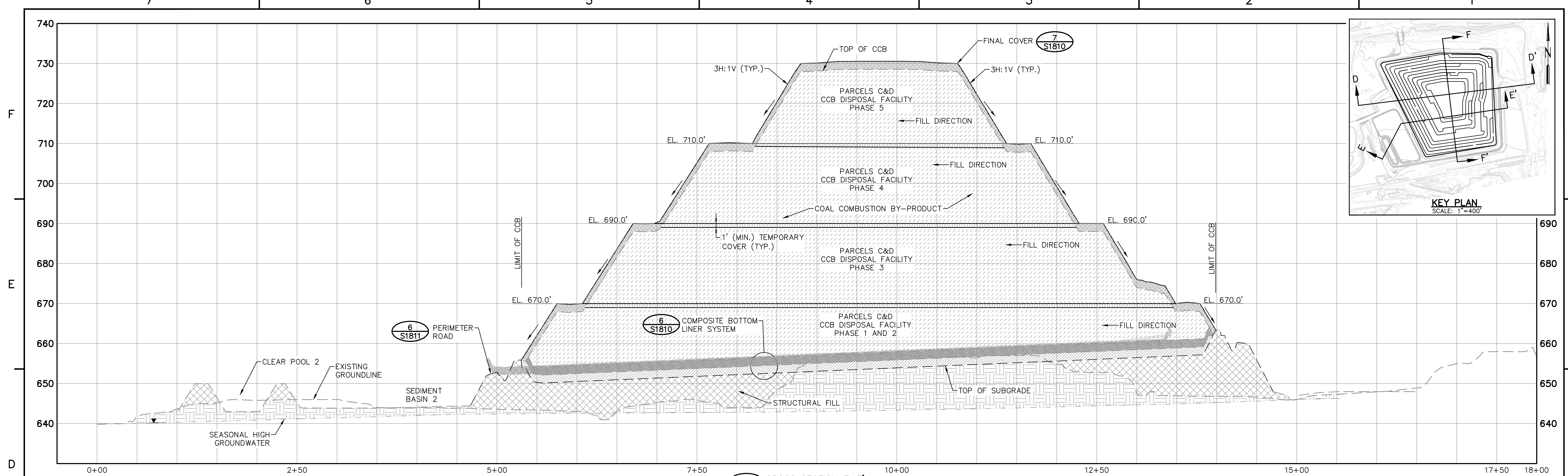
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		ISSUED FOR CCR PERMIT APPLICATION	
BY	CHK'D	CIVL APPR	ELECT APPR
BY	CHK'D	CIVL APPR	ELECT APPR
TJ	DEH	JAS	

Stantec Consulting Services, Inc.
FOR

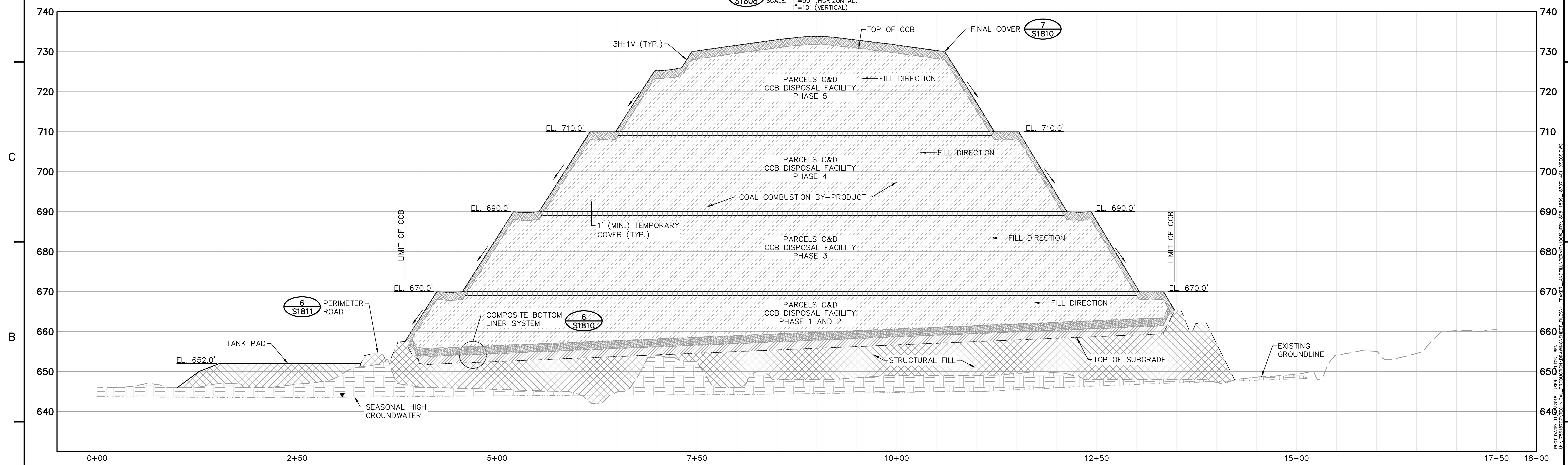
GEORGIA POWER COMPANY

PLANT HAMMOND — HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
FINAL GRADE PLAN

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTOUR	REV
1"=100'	175618707	S1807	1	FINAL	0



2 CROSS SECTION E-E'
 SCALE: 1"=50' (HORIZONTAL)
 1"=10' (VERTICAL)



1 CROSS SECTION D-D'
 SCALE: 1"=50' (HORIZONTAL)
 1"=10' (VERTICAL)



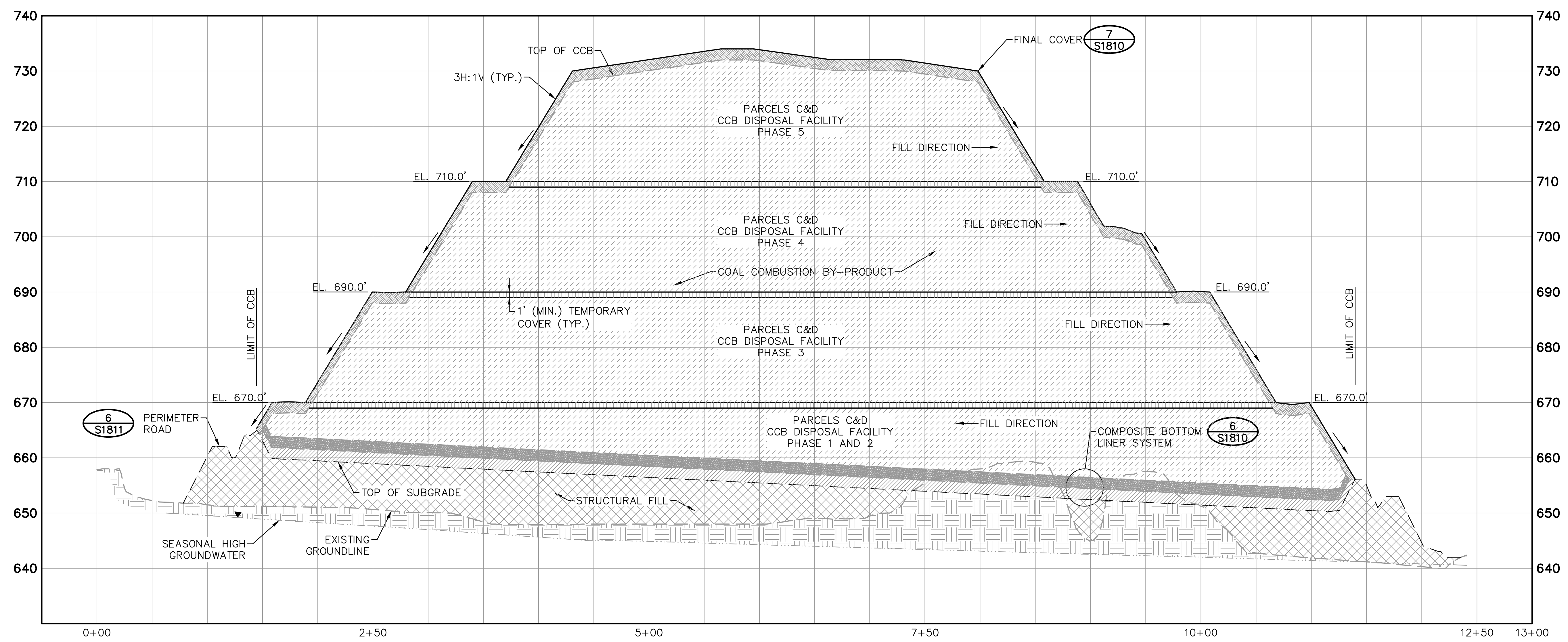
SECTION OR DETAIL NO.
 SHEET WHERE SHOWN

REFERENCE KEY

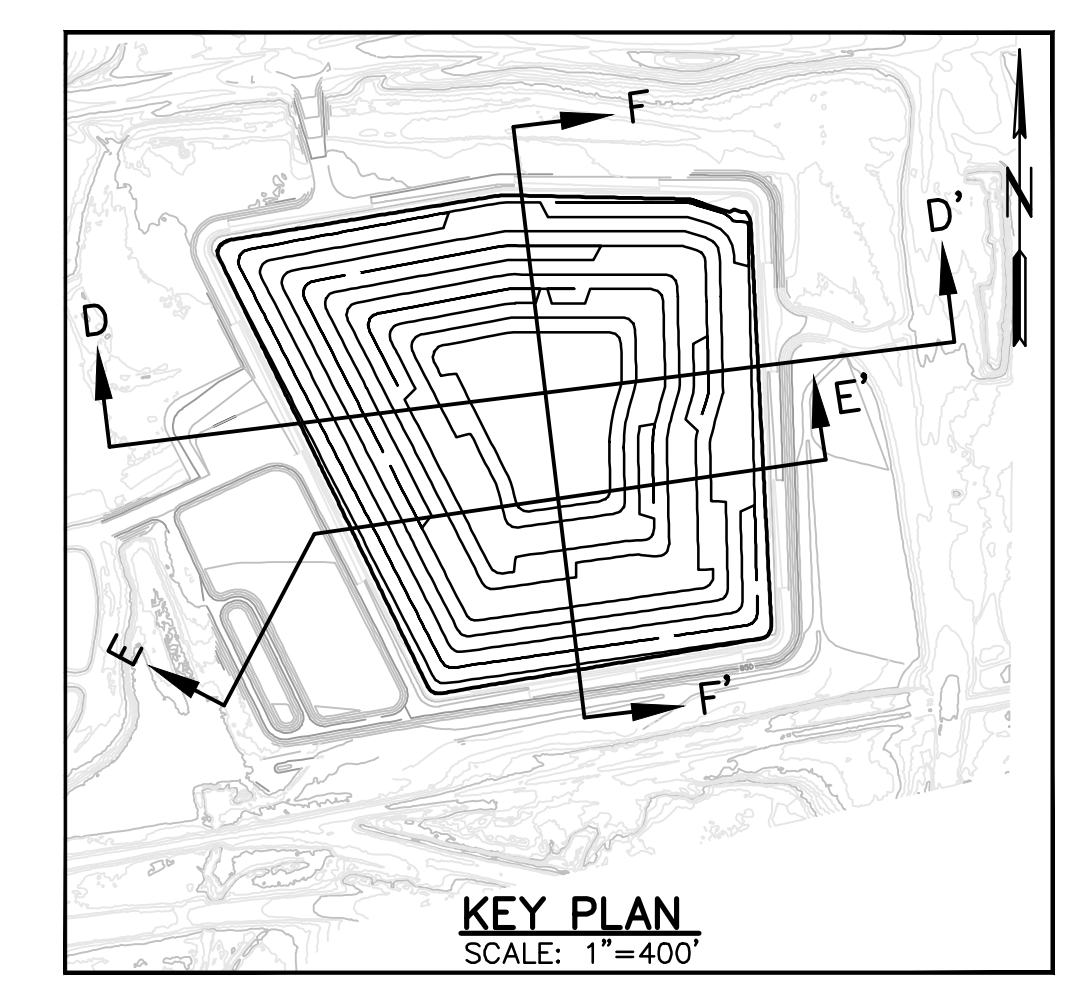
REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVIL APPR	ELECT APPR
TJ	DEH	JAS	

Stantec Consulting Services, Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND – HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 PARCELS C & D
 CROSS SECTIONS

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONTD.	REV.
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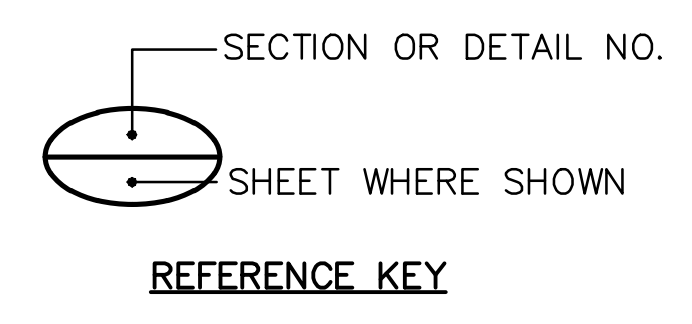


1
S1809 CROSS SECTION F-F'
 SCALE: 1"=50' (HORIZONTAL)
 1"=10' (VERTICAL)

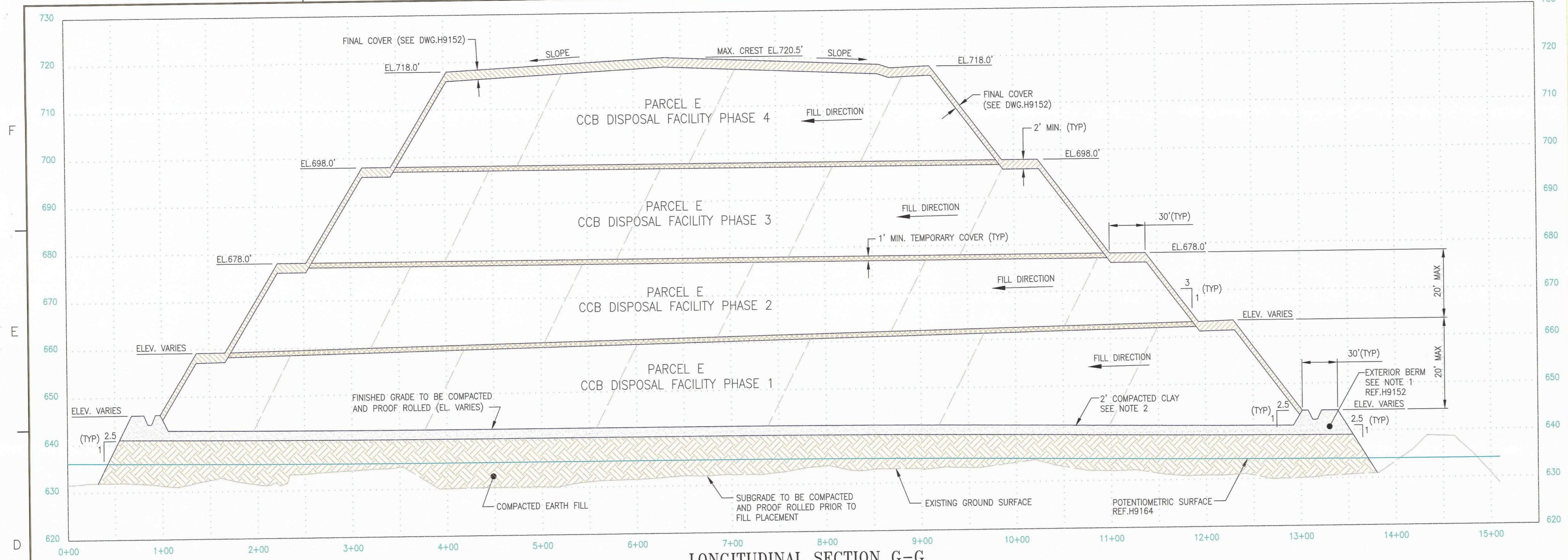


Stantec Consulting Services, Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND – HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 PARCELS C & D
 CROSS SECTIONS

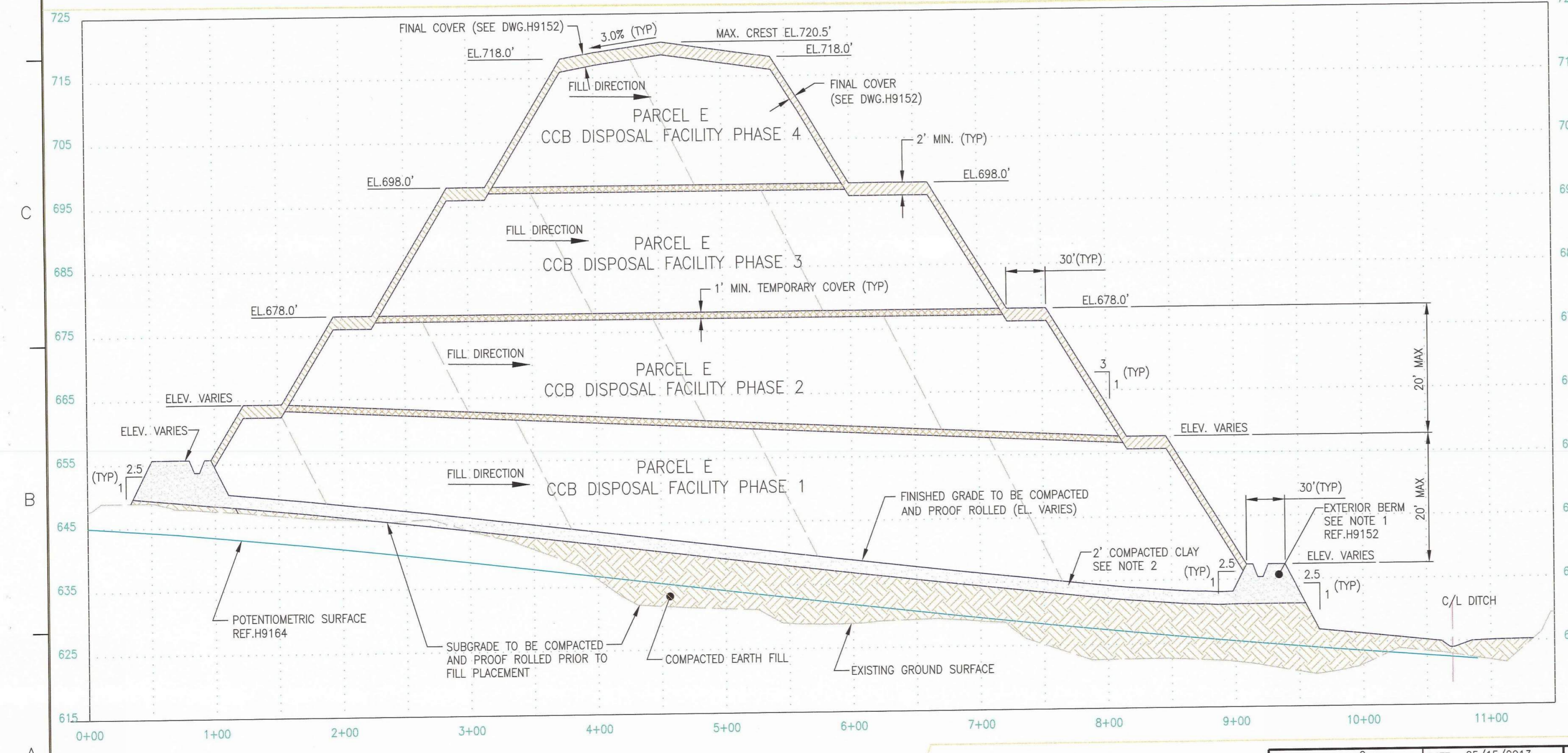
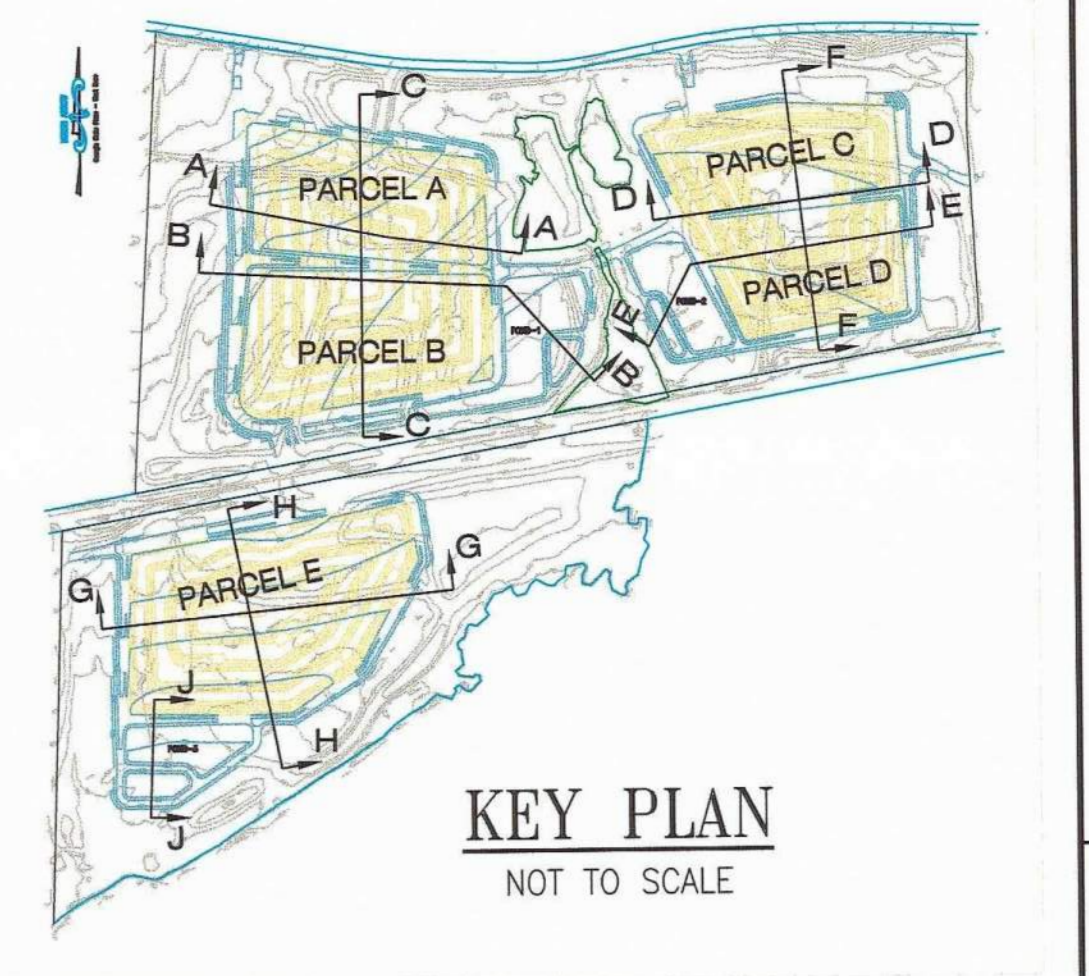
REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVL APPR	ELECT APPR
		I/C APPR	MECH APPR
		MGR APPR	
TJ	DEH	JAS	



SCALE	PROJ. I.D.	DRAWING NUMBER	SHT	CONTO	REV
AS SHOWN	175618707	S1809	1	FINAL	0

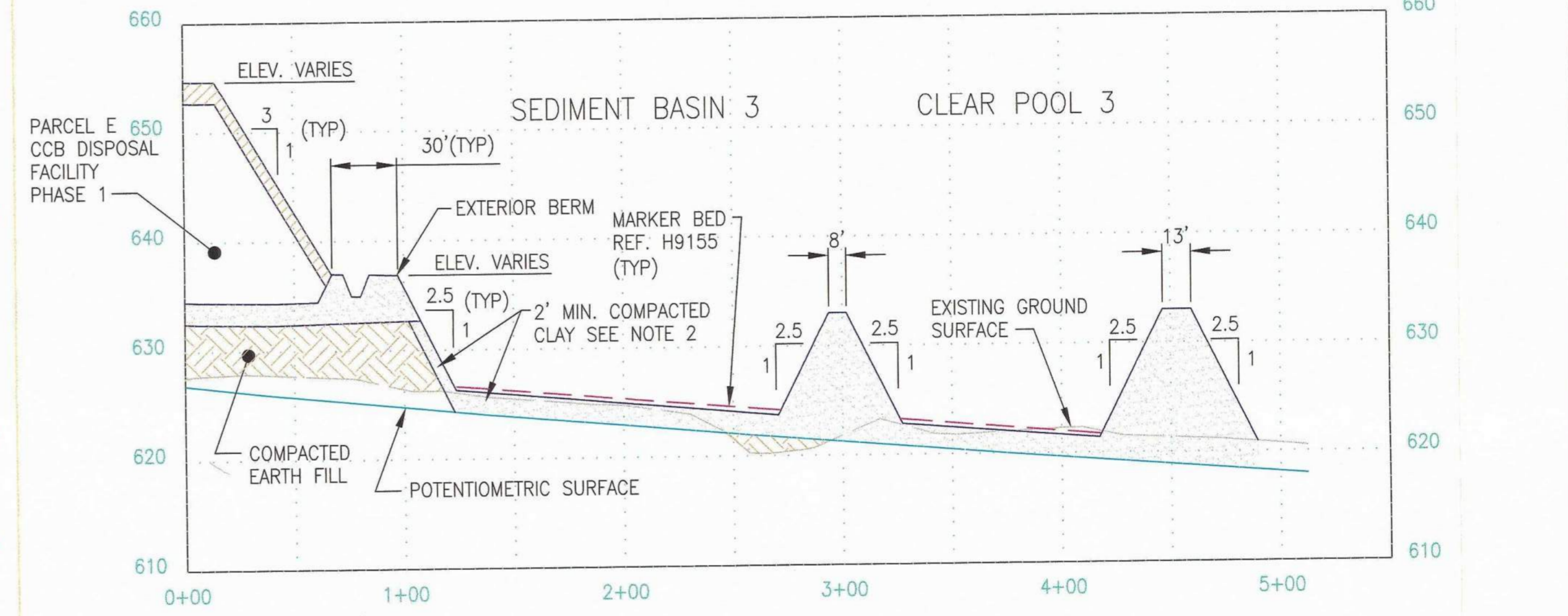


LONGITUDINAL SECTION G-G
 (FOR TRANSVERSE VIEW, SEE SECTION H-H, THIS DWG.)
 SCALE H: 1"=50' V: 1"=10'



TRANSVERSE SECTION H-H
 (FOR TRANSVERSE VIEW, SEE SECTION G-G, THIS DWG.)
 SCALE H: 1"=50' V: 1"=10'

REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687



SECTION J-J
 SCALE H: 1"=50' V: 1"=10'

- NOTES**
1. ALL EXTERIOR BERMS AND DITCHES SHALL BE CONSTRUCTED OF APPROVED SANDY CLAY/CLAYEY SAND FILL.
 2. THE UPPER 2 FEET OF SOIL WITHIN THE STACKING PARCEL DRAINAGE BERM, PERIMETER BERMS AND WITHIN ALL SEDIMENT PONDS AND CLEAR POOLS SHALL BE CLAYEY SOILS WITH PERMEABILITY NOT GREATER THAN 1×10^{-6} CM/SEC.
- REFERENCES**
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 2. SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.

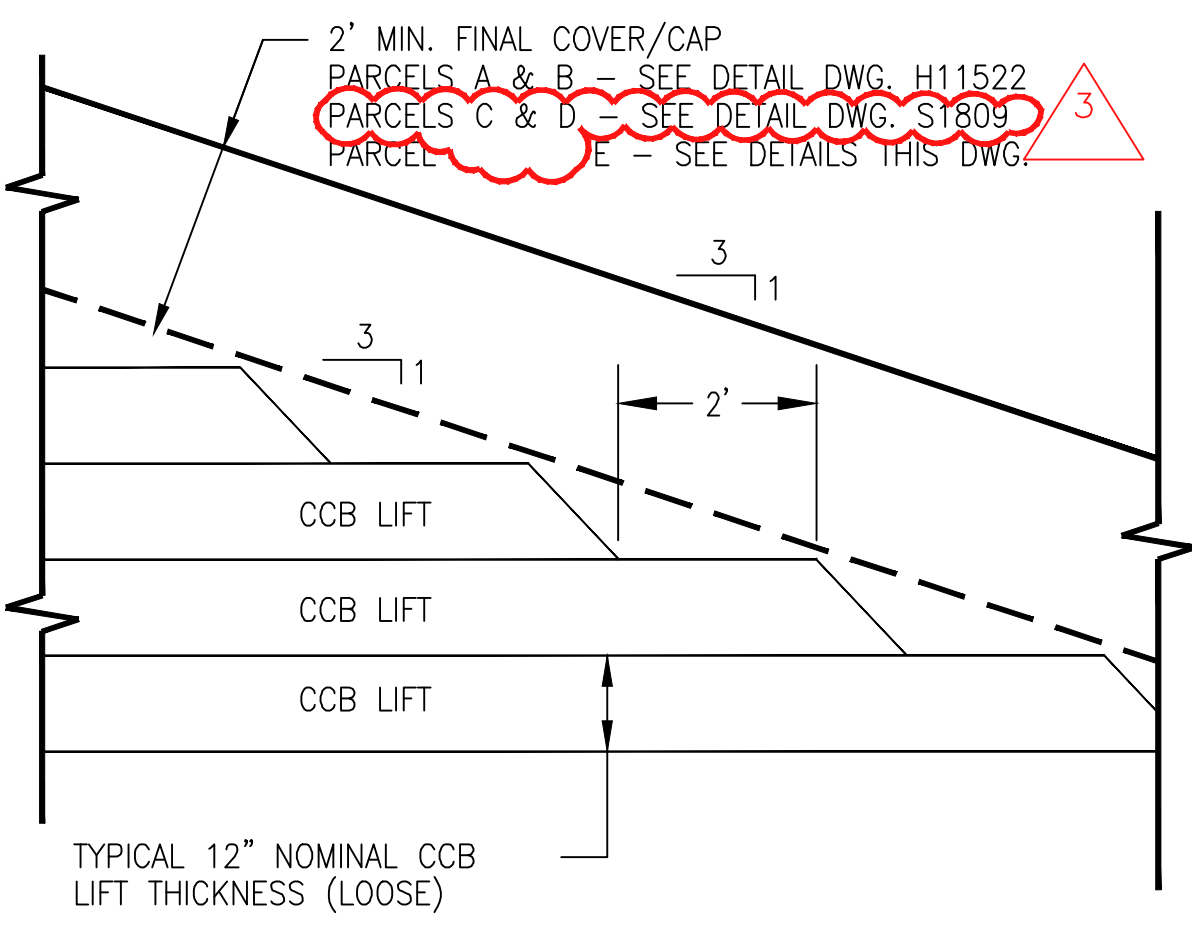
GEORGIA Environmental Protection Division
 Solid Waste Management Program
 MINOR MODIFICATION APPROVAL
 SOLID WASTE PERMIT NO. 057.022.D(1.1)
 APPROVED BY: *[Signature]* DATE: 4/15/2014

REVISION 2 DATE 05/15/2013 ISSUED FOR MINOR MODIFICATION		REVISION 1 DATE 09/15/2005 RE-ISSUED FOR PERMIT		REVISION 0 DATE 09/27/04 ISSUED FOR PERMIT	
MWO: GPC232851,55,56,58 GPC232870,74,76,77 HAMMOND UNITS 1-4 MATS PROJECT		REA: HM01208		EWO: 3158CG REA: HM01208 EWO: 3158CG	
BY: CRU	CHK'D: MHL	CIVL APPR: LHB	ELECT APPR: []	L/C APPR: []	MECH APPR: []
BY: JDM	CHK'D: GHM	CIVL APPR: ELM	ELECT APPR: []	L/C APPR: []	MECH APPR: []

Southern Company Services, Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 PARCEL E
 LONGITUDINAL & TRANSVERSE SECTIONS
 G-G, H-H, AND J-J

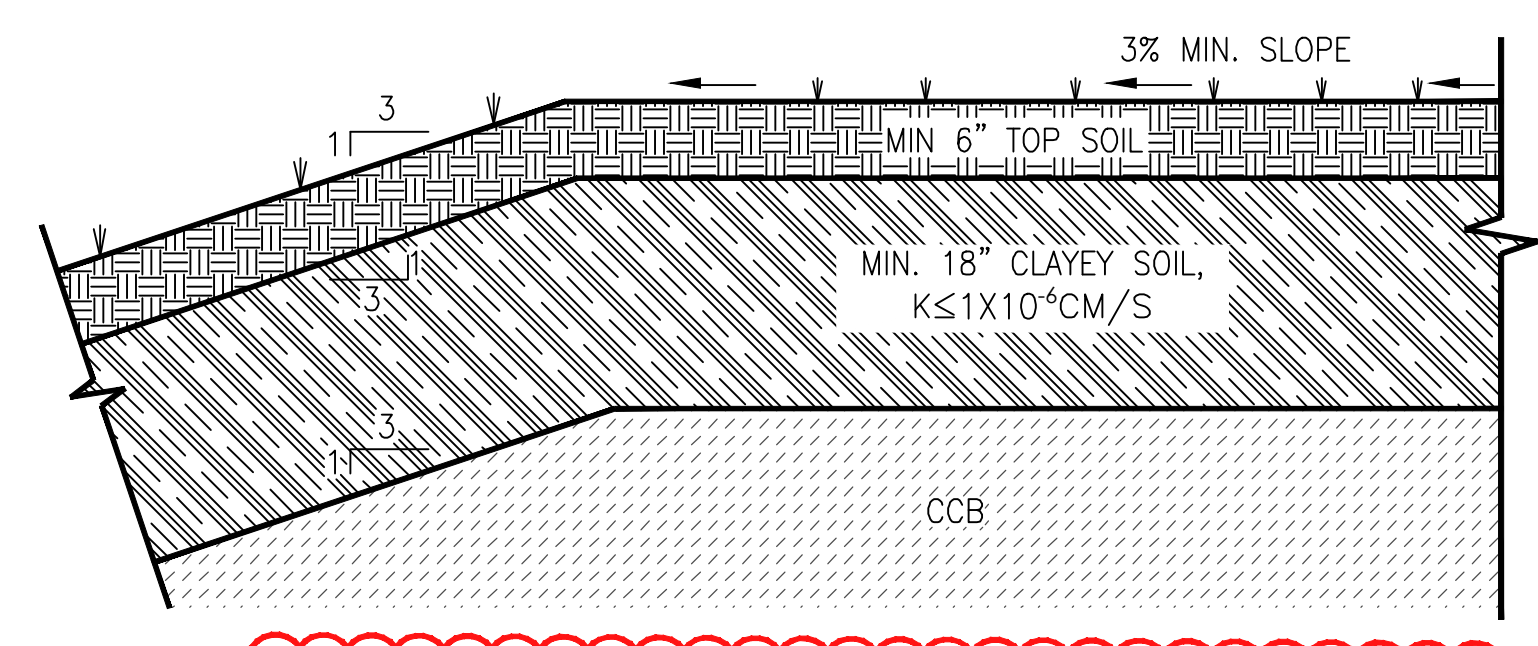
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SCALE: AS SHOWN
 PROJ. I.D.:
 DRAWING NUMBER: **H9151**
 SHEET: 1
 CONT'D: FINAL
 REV: 2



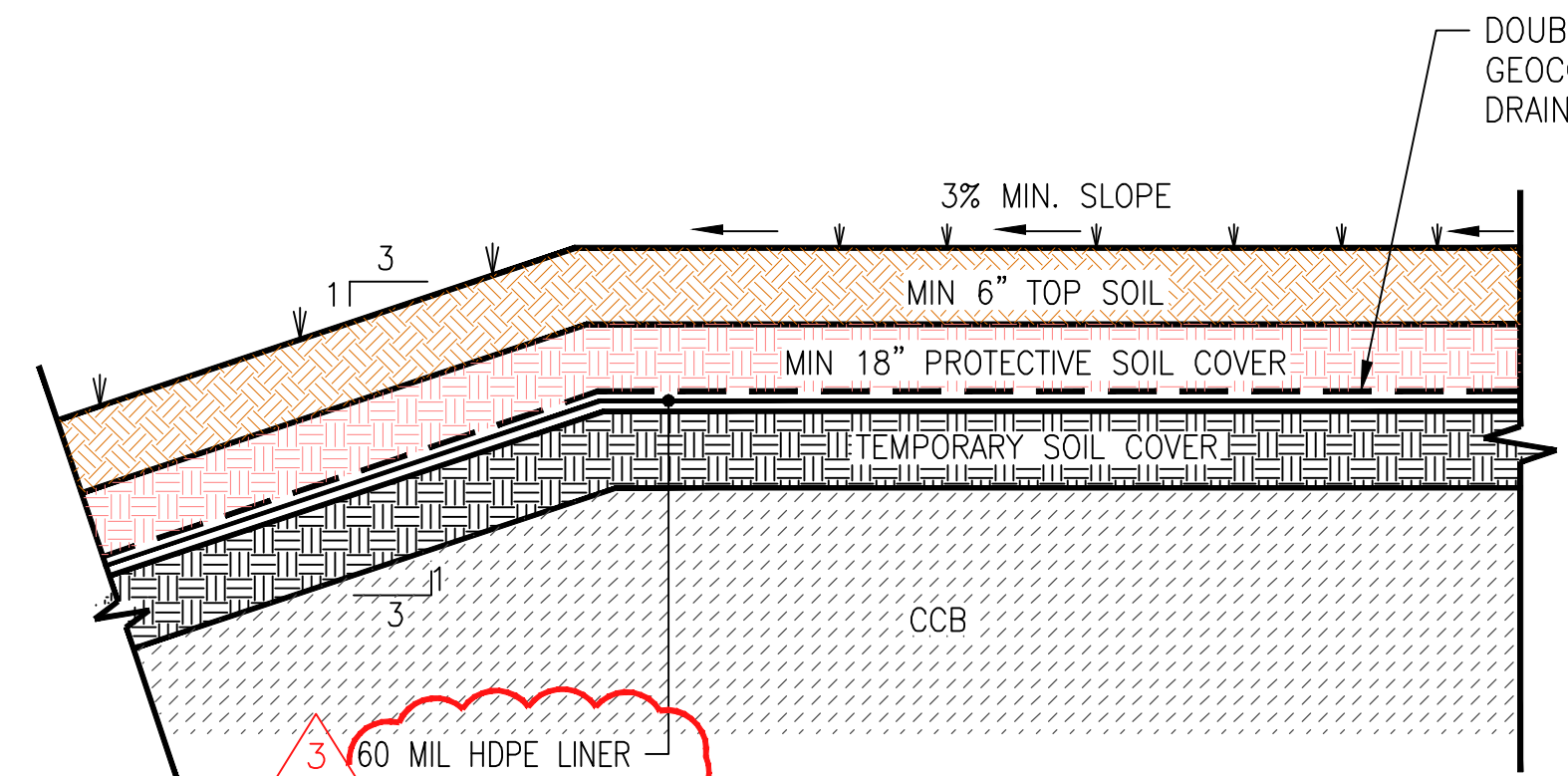
NOTE:
1. CCB SLOPE SURFACE TO BE STEPPED AS SHOWN OR SURFACE ROUGHENED TO MINIMIZE EROSION

DETAIL L
TYPICAL CCB FILL SLOPE
NOT TO SCALE



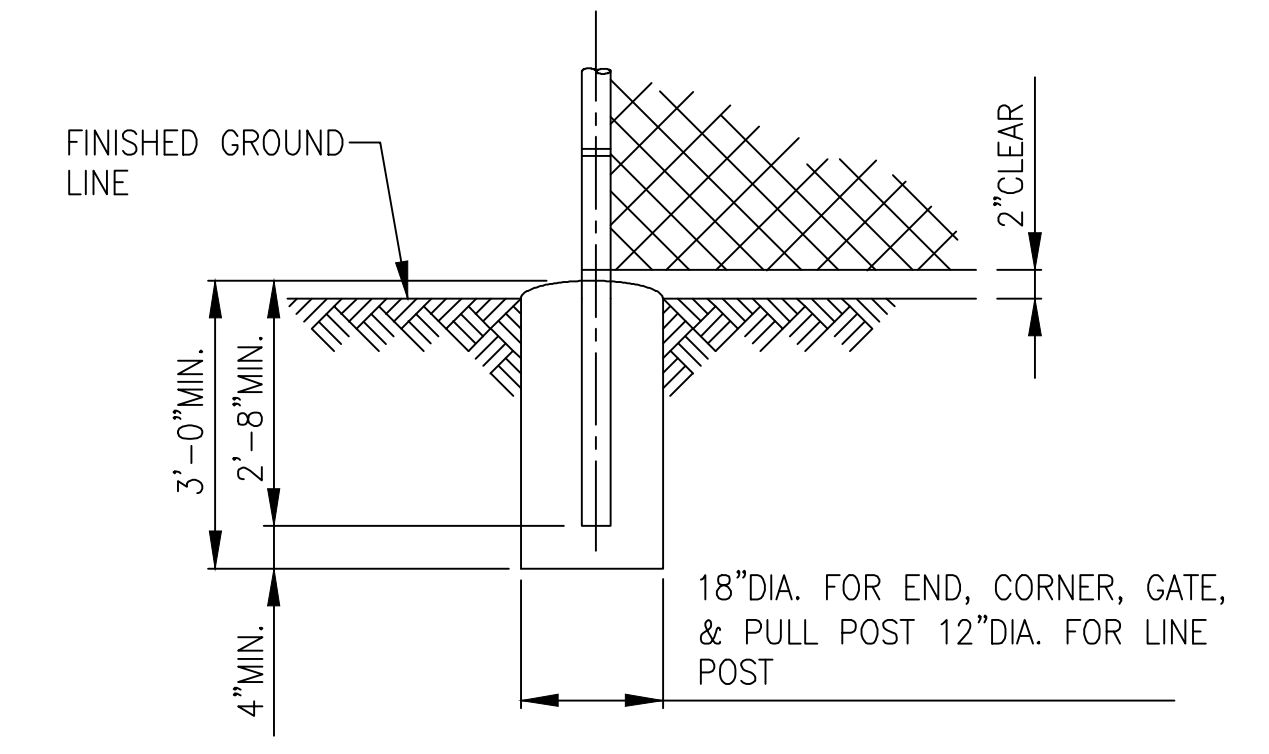
1. REFERENCE OPERATION PLAN AND CLOSURE PLAN IN CCR PERMIT APPLICATION FOR VEGETATION SCHEDULE AND FINAL COVER SPECIFICATIONS, RESPECTIVELY.

DETAIL M
FINAL COVER TYPICAL SECTION
(PARCEL E)
NOT TO SCALE



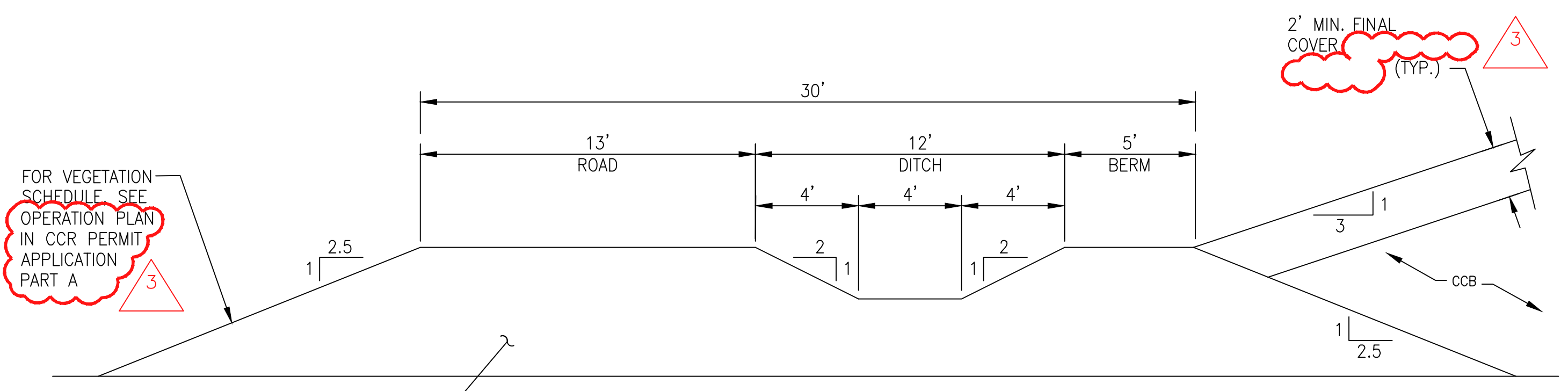
1. REFERENCE OPERATION PLAN AND CLOSURE PLAN IN CCR PERMIT APPLICATION FOR VEGETATION SCHEDULE AND FINAL COVER SPECIFICATIONS, RESPECTIVELY.

DETAIL M
ALTERNATIVE FINAL COVER TYPICAL SECTION
(PARCEL E)
NOT TO SCALE

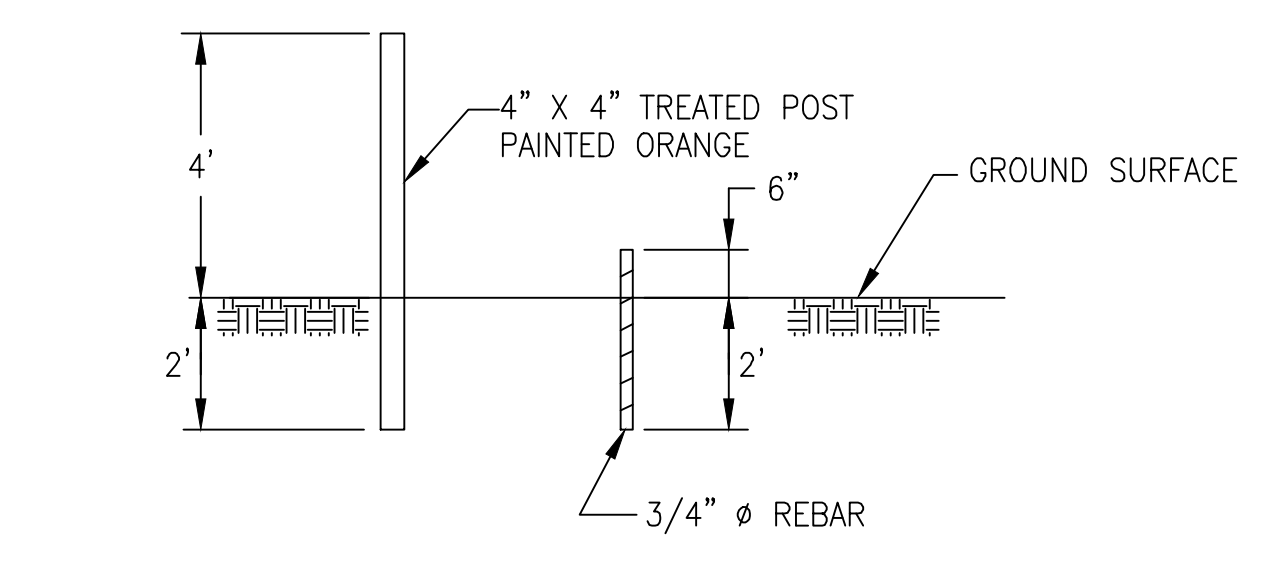


NOTE:
CONCRETE FOOTINGS WILL BE REQUIRED FOR ALL LINE, CORNER, GATE, END AND PULL POSTS.

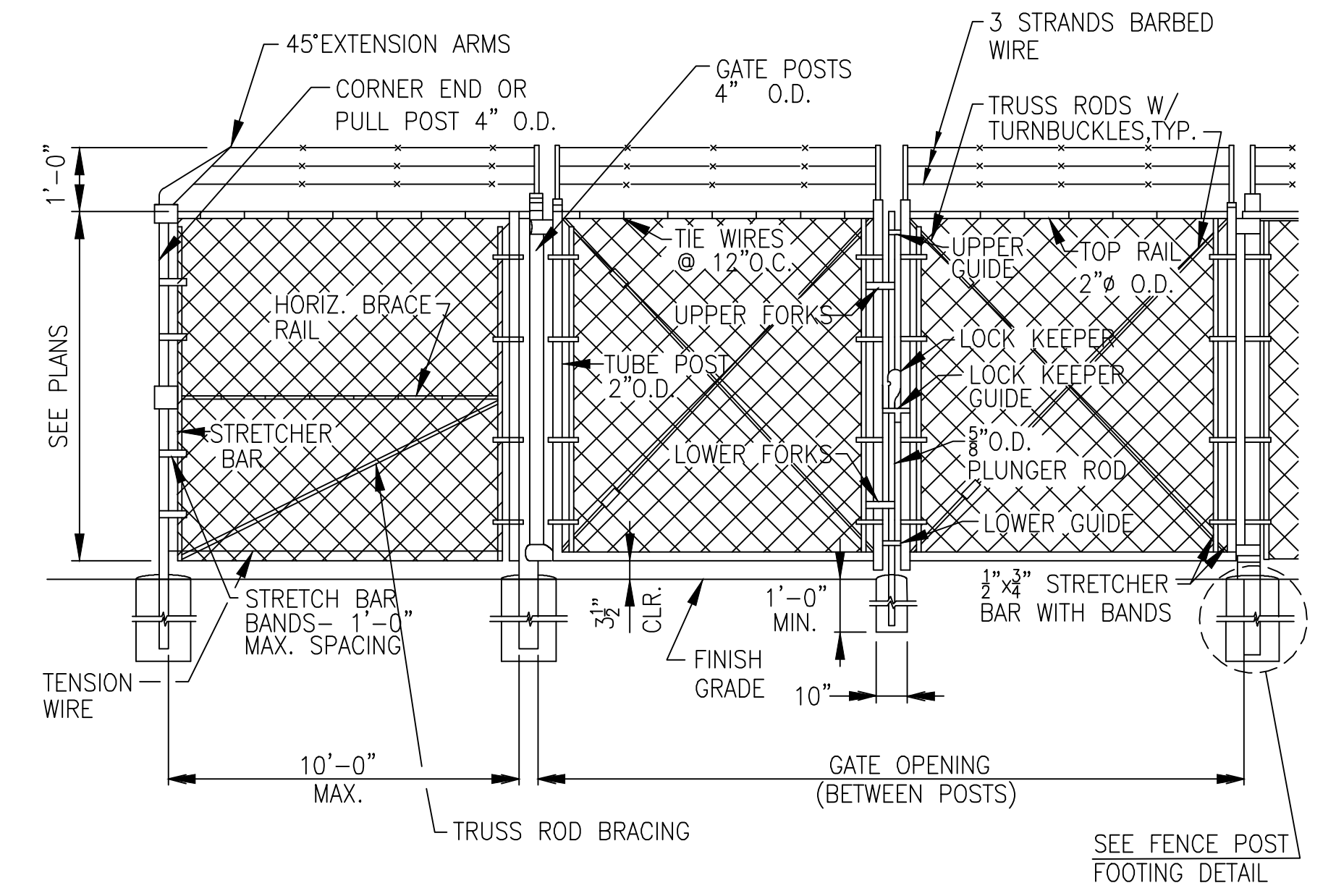
FENCE POST FOOTING
NOT TO SCALE



TYPICAL EXTERIOR BERM
SECTION B-B
(PARCELS C, D & E)
NOT TO SCALE

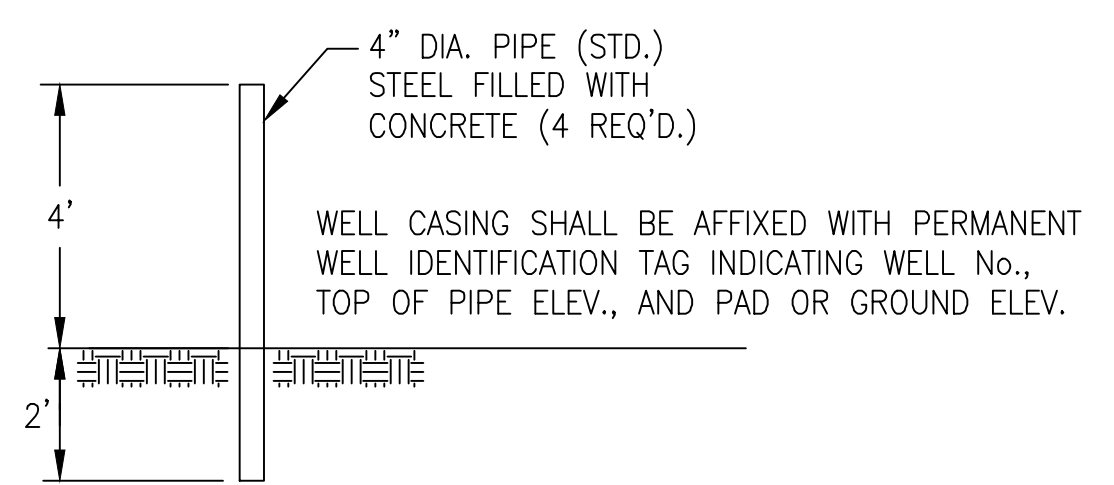


DETAIL H
TYPICAL DISPOSAL SITE BOUNDARY
AND BUFFER ZONE PIN AND MARKER DETAIL
NOT TO SCALE

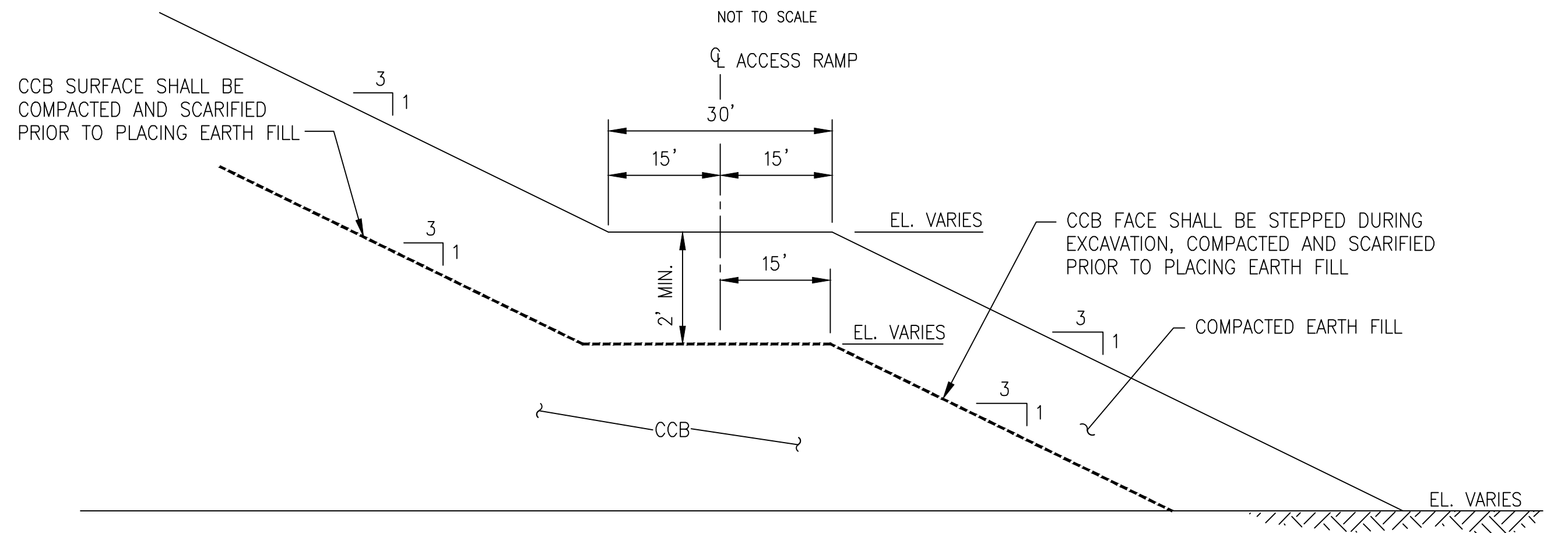


NOTE:
HORIZ. BRACE RAILS AND TRUSS ROD BRACING SHALL BE INSTALLED AT ALL CORNER, END AND PULL POSTS. FABRIC SHALL BE FASTENED TO LINE POSTS AT NO MORE THAN 14\"/>

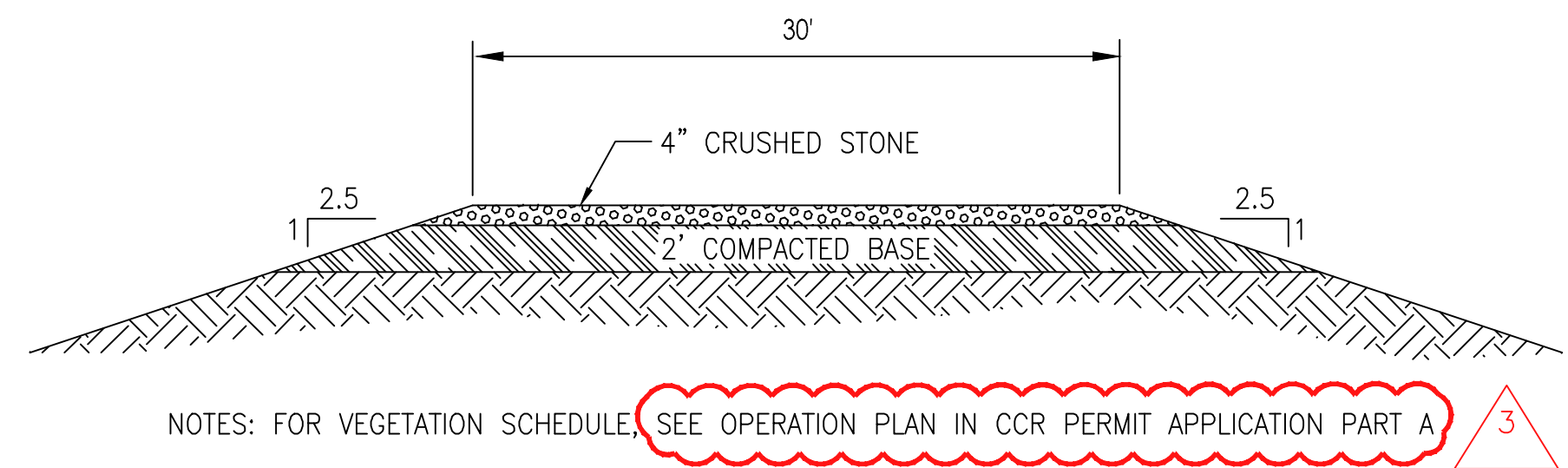
SECURITY FENCE & DOUBLE SWING GATE
NOT TO SCALE



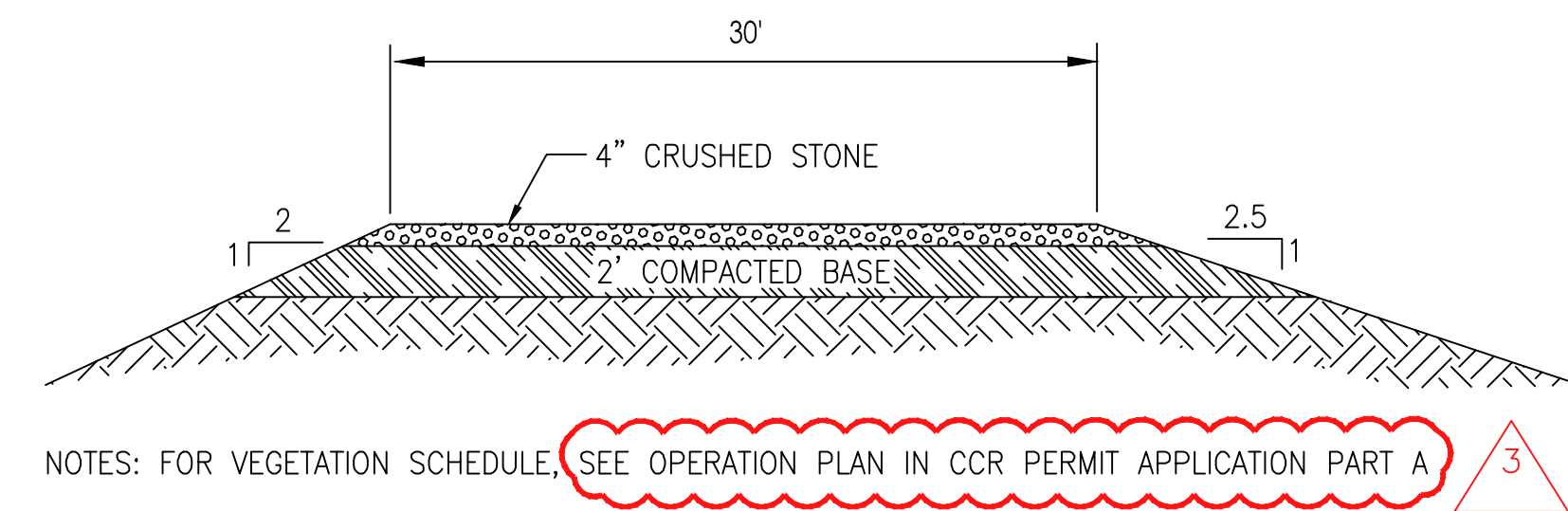
DETAIL K
TYPICAL GROUNDWATER MONITORING WELL
MARKER PROTECTION PIPES
NOT TO SCALE



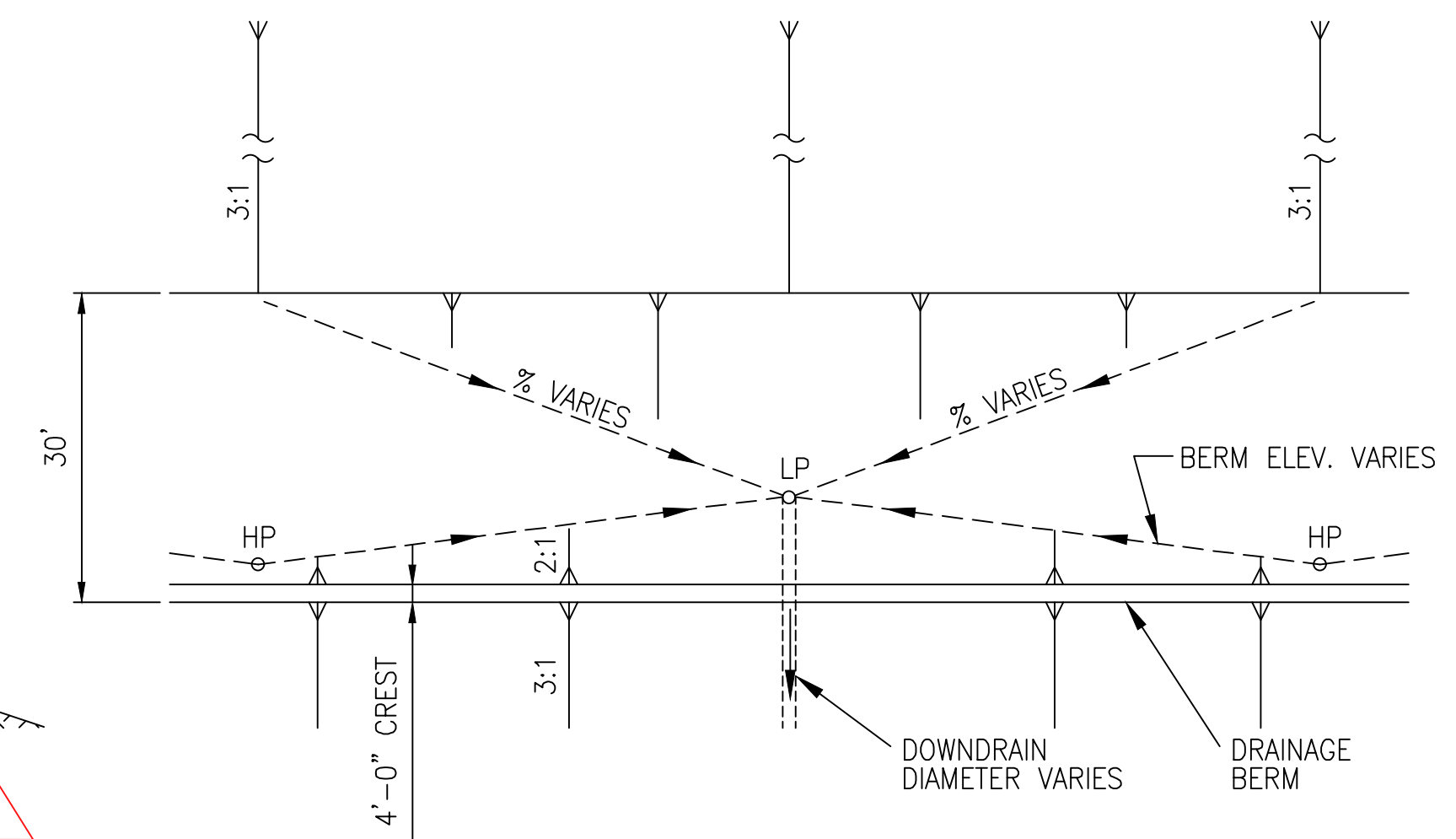
ACCESS RAMP TYPICAL SECTION
SECTION D-D
NOT TO SCALE



TYPICAL ACCESS ROAD
SECTION A-A
NOT TO SCALE



TYPICAL ACCESS ROAD
SECTION C-C
NOT TO SCALE



TYPICAL BERM DRAIN PLAN
TYPICAL PLAN ALONG 30' BERM
N.T.S.

- REFERENCES:**
- MANUAL FOR EROSION & SEDIMENT CONTROL. IN GEORGIA, LATEST EDITION.
 - FOR A COMPLETE DRAWING LIST SEE SHEET H9130.



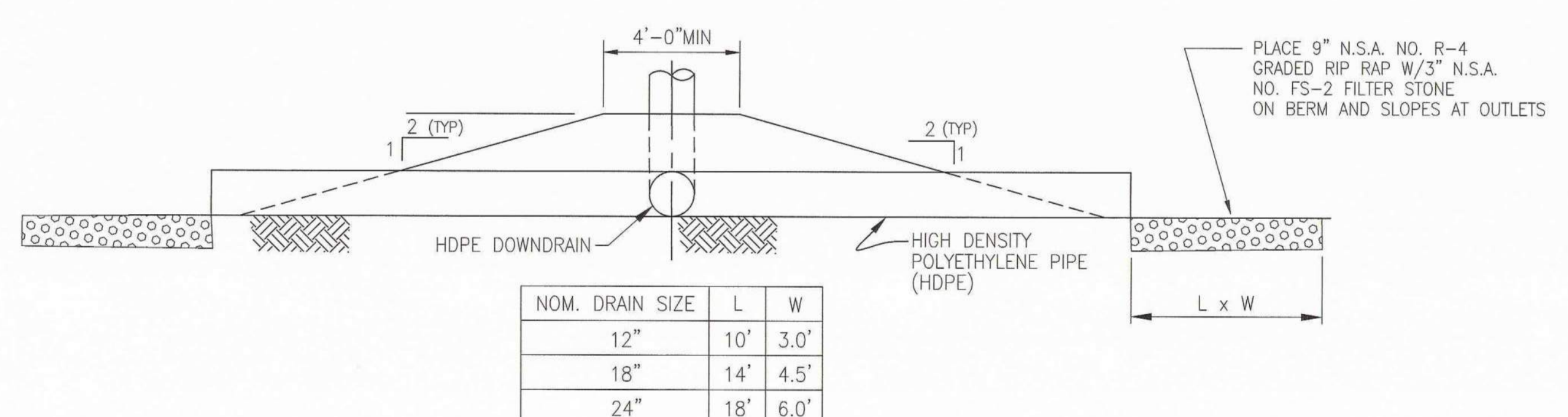
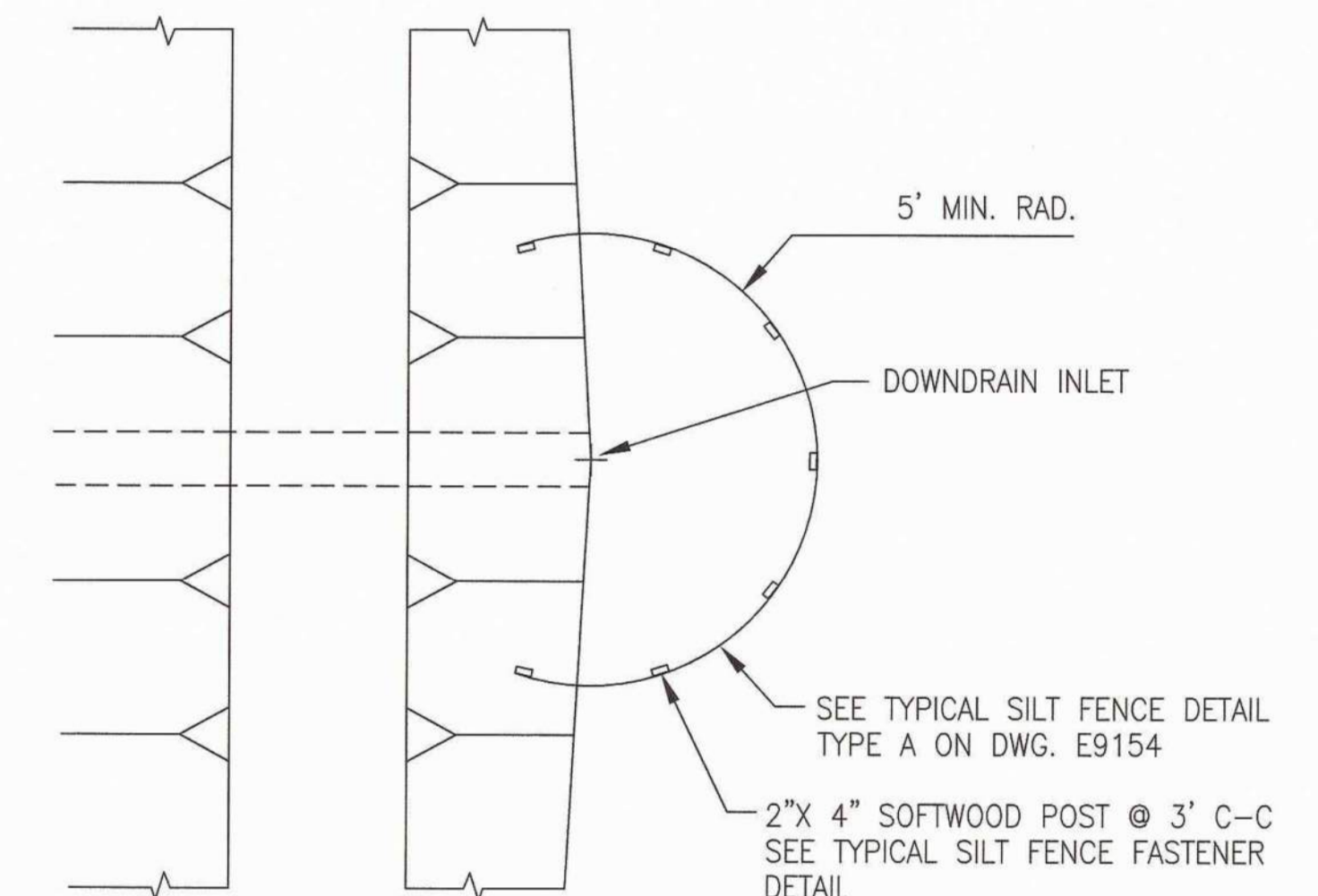
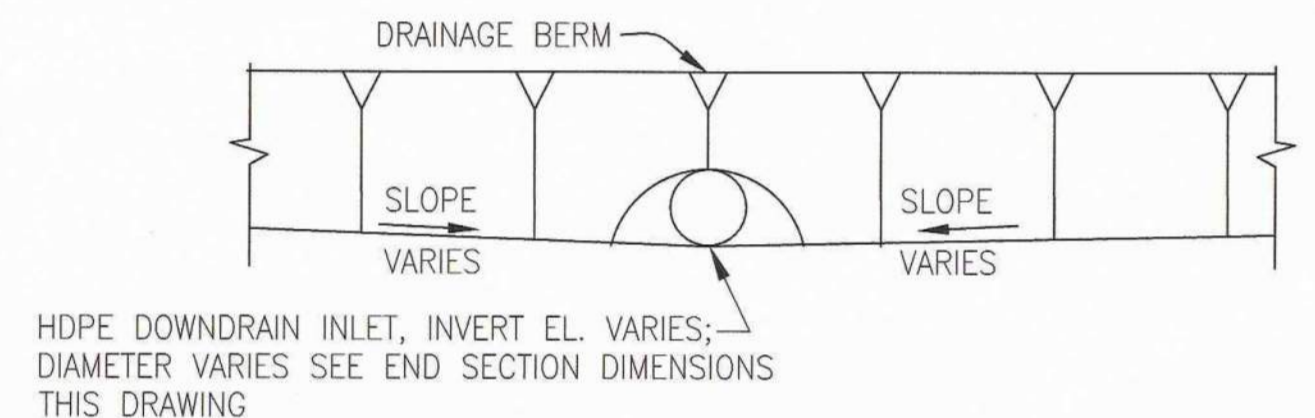
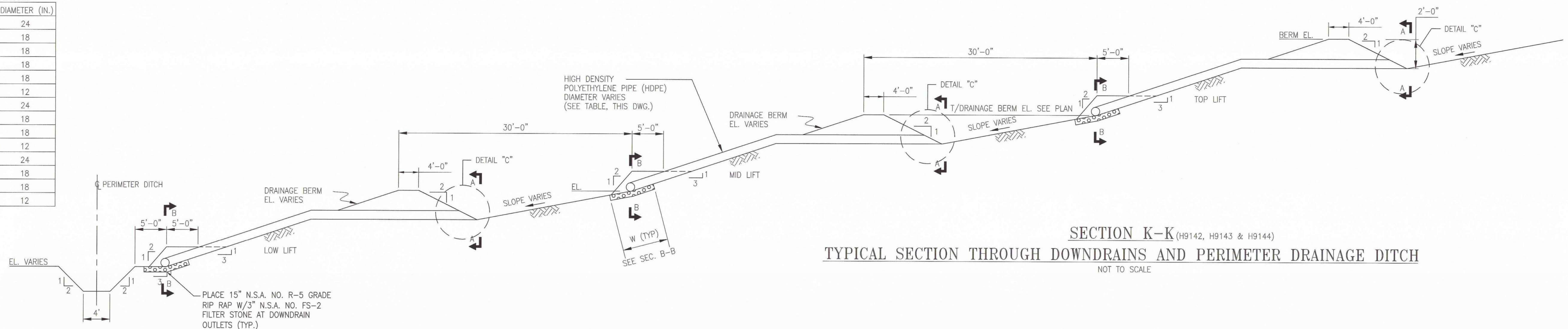
REV. 3 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE											
				3	11/16/2018	2	08/19/2013	1	09/15/2005	0	09/27/2004															
				ISSUED FOR CCR PERMIT APPLICATION		ISSUED FOR MINOR MODIFICATION		RE-ISSUED FOR PERMIT		ISSUED FOR PERMIT																
BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVIL APPR	ELECT APPR	U/C APPR	MECH APPR	DISC MGR	SCALE	DRAWING NUMBER	SHEET	CONTD	REV	
							SCC	JRC	JAS													NONE	H9152	1	FINAL	3

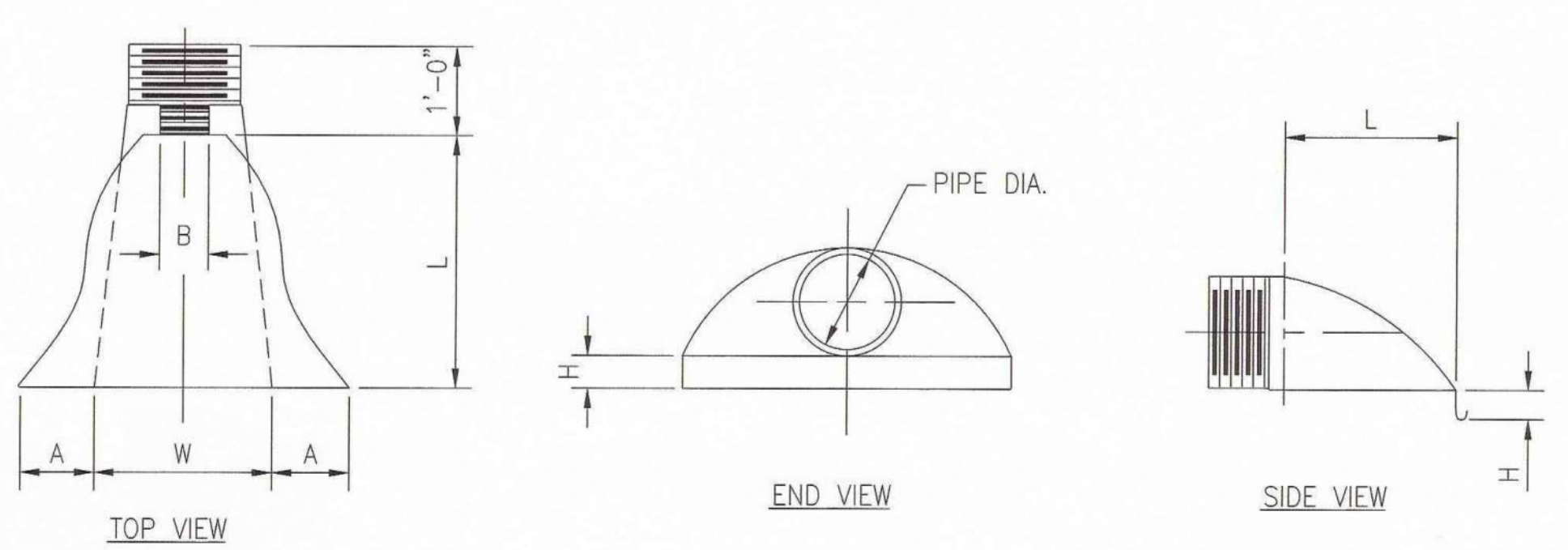
Stantec Consulting Services Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
GRADING, DRAINAGE AND COVER DETAILS

TABLE 3 - DOWNDRAINS

PARCEL	LIFT	DIAMETER (IN.)
A & B	LOW	24
	MID	18
	MID	18
	MID	18
	MID	18
C & D	TOP	12
	LOW	24
	MID	18
E	MID	18
	MID	18
	TOP	12
	LOW	24



NOM. DRAIN SIZE	L	W
12"	10'	3.0'
18"	14'	4.5'
24"	18'	6.0'



PIPE DIAMETER	A (1±)	B MAX	H (1±)	L (1/2±)	W (2±)
12"	6.5	10	6.5	25	29
18"	7.5	15	6.5	32	35
24"	7.5	18	6.5	36	45

ALL DIMENSION ARE IN INCHES

END SECTION DIMENSIONS-ADS PIPES
NOT TO SCALE

REV. 2 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

NOTES:

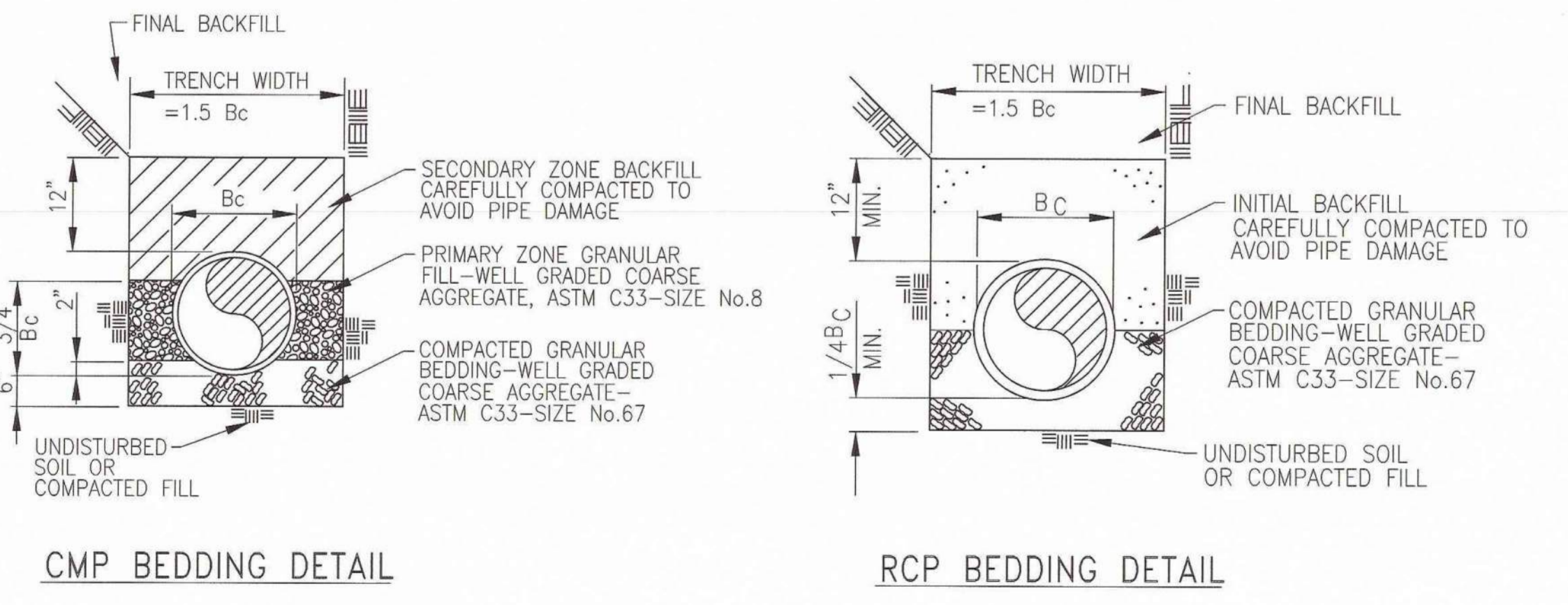
- CORRUGATED STEEL PIPE SIZE SHALL BE AS INDICATED ON DESIGN DRAWINGS, WITH 2 3/8" CORRUGATION, 14 GAGE THICKNESS, AND SHALL BE FORMED FROM GALVANIZED STEEL SHEET CONFORMING TO ASTM A929 AND MANUFACTURED TO THE REQUIREMENTS OF ASTM A760.
- FIELD JOINTS SHALL BE MADE UP WITH COUPLING BANDS CONFORMING TO ASTM A760, IF REQUIRED, AND SHALL BE EQUIPPED WITH GASKETS TO LIMIT INFILTRATION.
- A DOUBLE HOT-DIP COATING OF BITUMINOUS MATERIAL SHALL BE APPLIED OVER THE BASIC GALVANIZING TO AN APPROXIMATE THICKNESS OF .05 IN. MEASURED ON THE CREST OF BOTH INSIDE AND OUTSIDE CORRUGATIONS
- PIPE SHALL BE INSTALLED AS PER "CMP BEDDING DETAIL" THROUGHOUT THE ENTIRE LENGTH OF THE PIPE.
- PIPE SHALL BE LAID TRUE (+ 1/8 INCH) TO THE ESTABLISHED LINE AND GRADE. SEPARATE SECTIONS OF PIPE SHALL BE JOINED FIRMLY TOGETHER WITH THE STEEL COUPLING BANDS DRAWN TIGHT TO ENSURE TIGHT JOINTS. CORRUGATIONS IN COUPLING BANDS SHALL MATCH THE CORRUGATIONS IN THE PIPES.
- CARE SHALL BE EXERCISED IN HAULING AND HANDLING PIPE TO AVOID DAMAGE TO THE PROTECTIVE COATING. ANY DAMAGE TO THE PROTECTIVE COATING SHALL BE REPAIRED BY CONTRACTOR USING AN ACCEPTABLE TOUCH-UP COATING MATERIAL.
- BACKFILL SHALL BE PLACED AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE FOR ITS FULL LENGTH. BACKFILL SHALL BE SELECT SAND MATERIAL, IT SHALL BE PLACED AND COMPACTED IN 9 INCH UNCOMPACTED LAYERS AND THEN COMPACTED TO A MINIMUM OF 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM D698.
- NO CONSTRUCTION VEHICLES SHALL BE PERMITTED ON THE PIPE UNTIL 4 FEET OF BACKFILL COVER IS IN PLACE.
- REINFORCED CONCRETE PIPES (RCP) SIZE SHALL BE AS INDICATED ON DESIGN DRAWING, AND SHALL CONFORM TO ASTM A76. ALL RCP SHALL BE CLASS III, UNLESS NOTED OTHERWISE. RCP SHALL BE INSTALLED AS PER "RCP BEDDING DETAIL".
- ALL DOWN DRAIN PIPES AND FITTINGS SHALL BE CORRUGATED POLYETHYLENE PIPE WITH SMOOTH INTERIOR WALL AND CORRUGATED EXTERIOR WALL. ALL PIPES SHALL BE TYPE N-12 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS (ADS), INC. OR APPROVED ALTERNATE.

REFERENCES

- MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

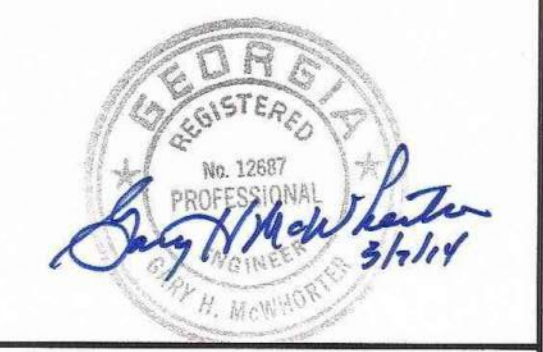
GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057.022.D(1.1)

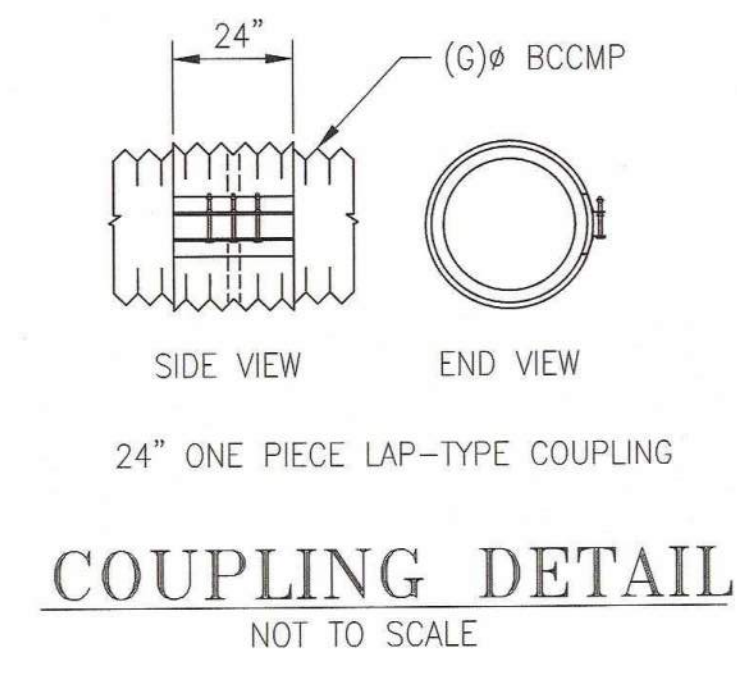
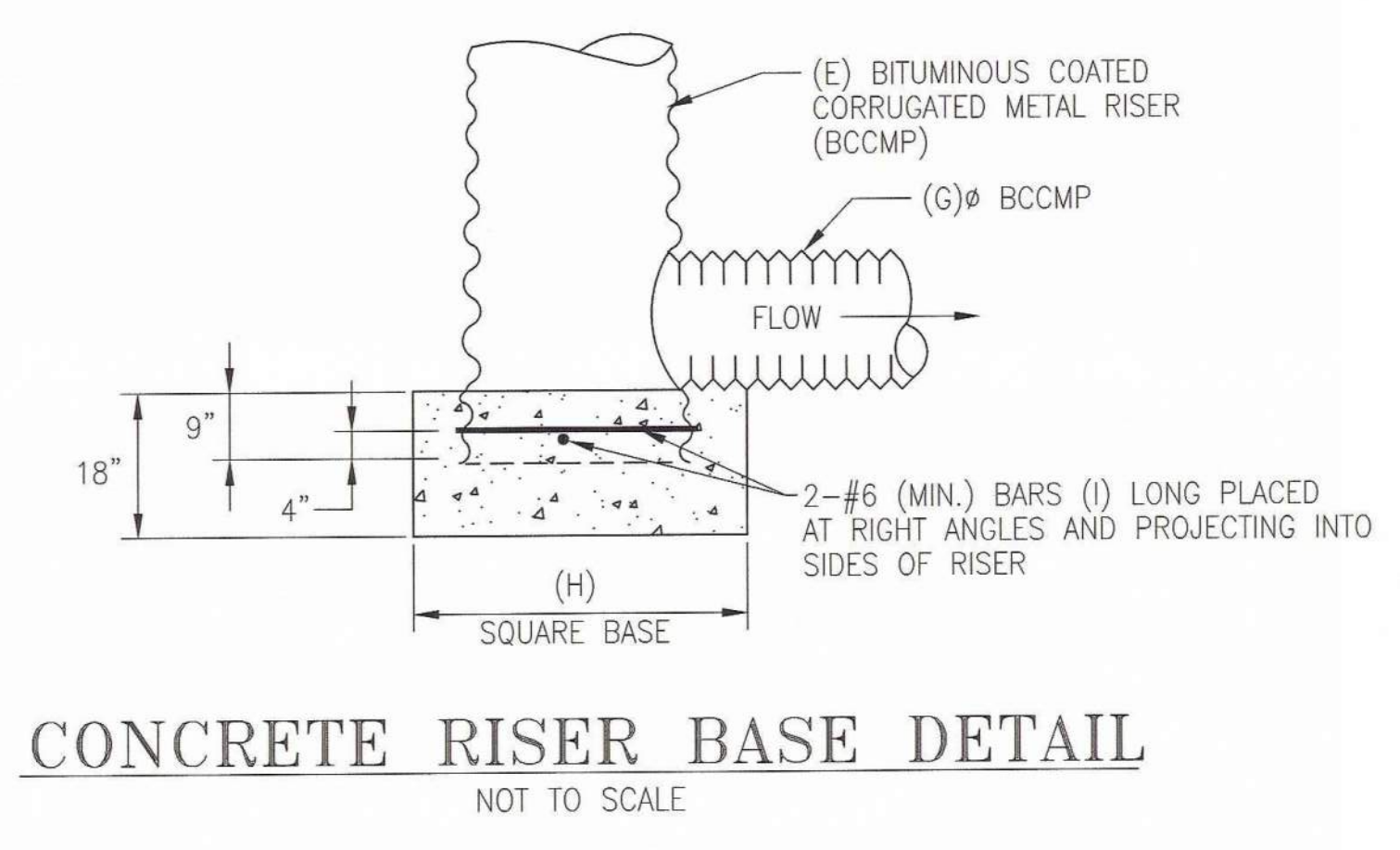
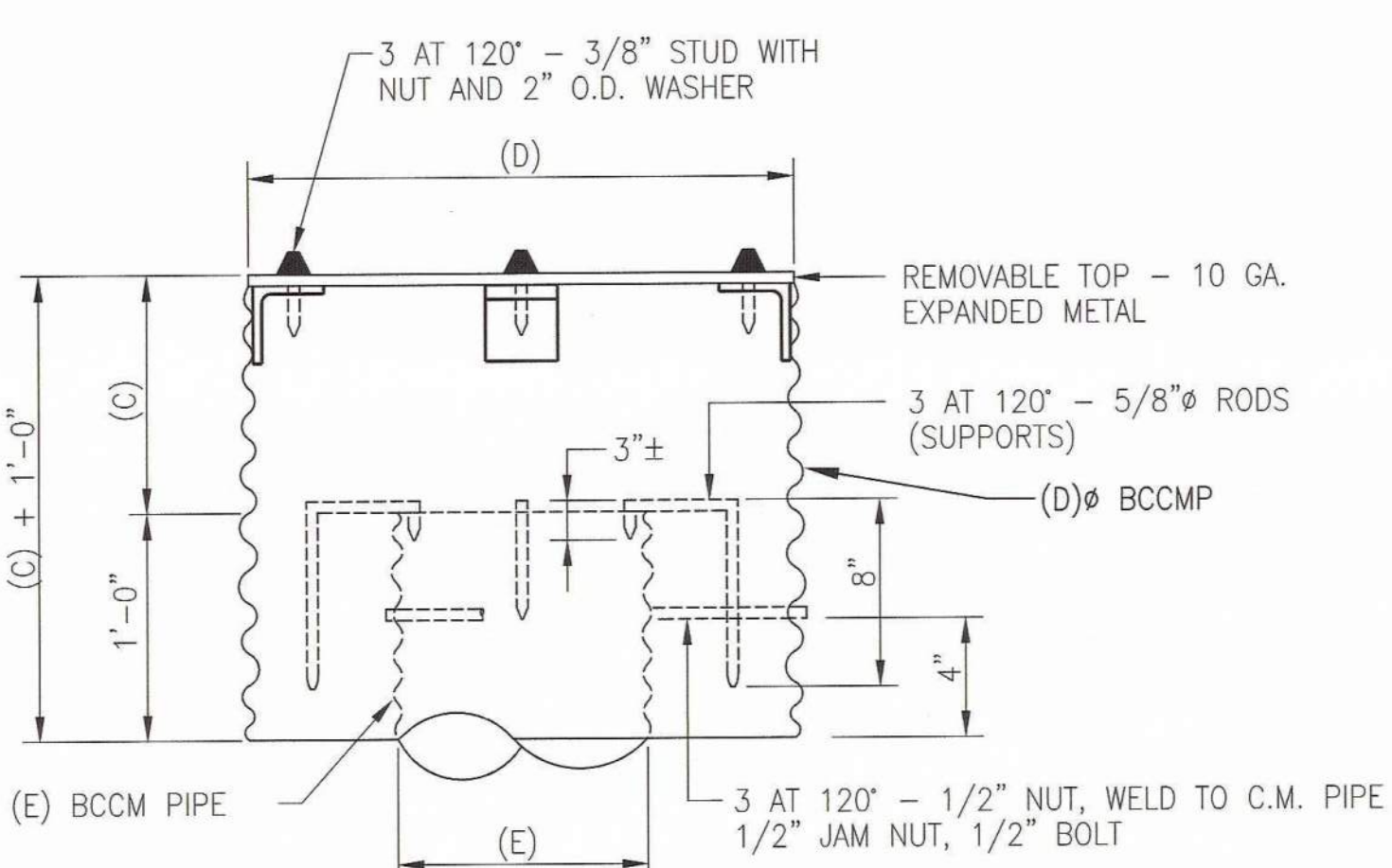
APPROVED BY: *e. Neji* DATE: 4/15/2014



PIPE BEDDING DETAILS
NOT TO SCALE

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REVISION	2	DATE	05/15/2013	REVISION	1	DATE	09/15/2005	REVISION	0	DATE	09/27/2004																																																				
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SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONTD.	REV																																																										
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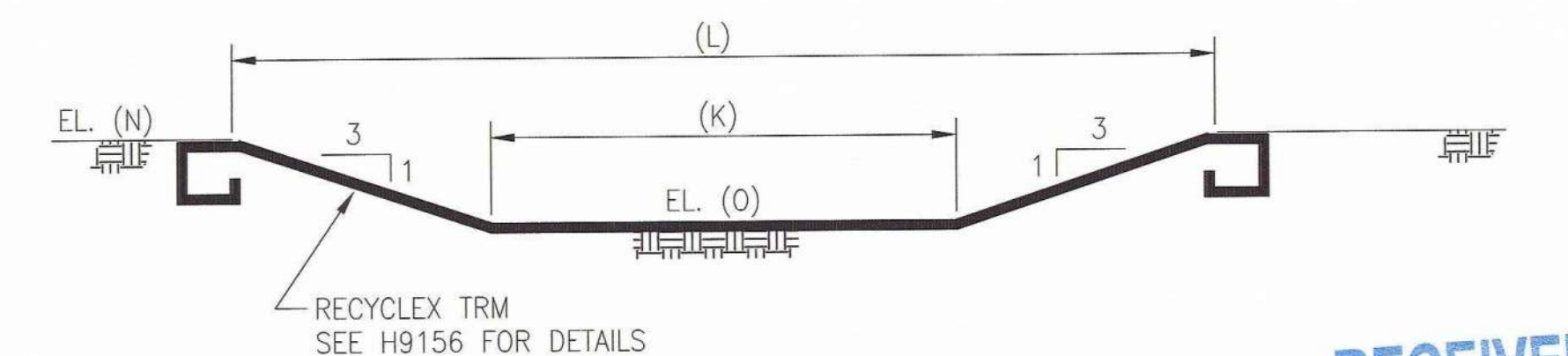
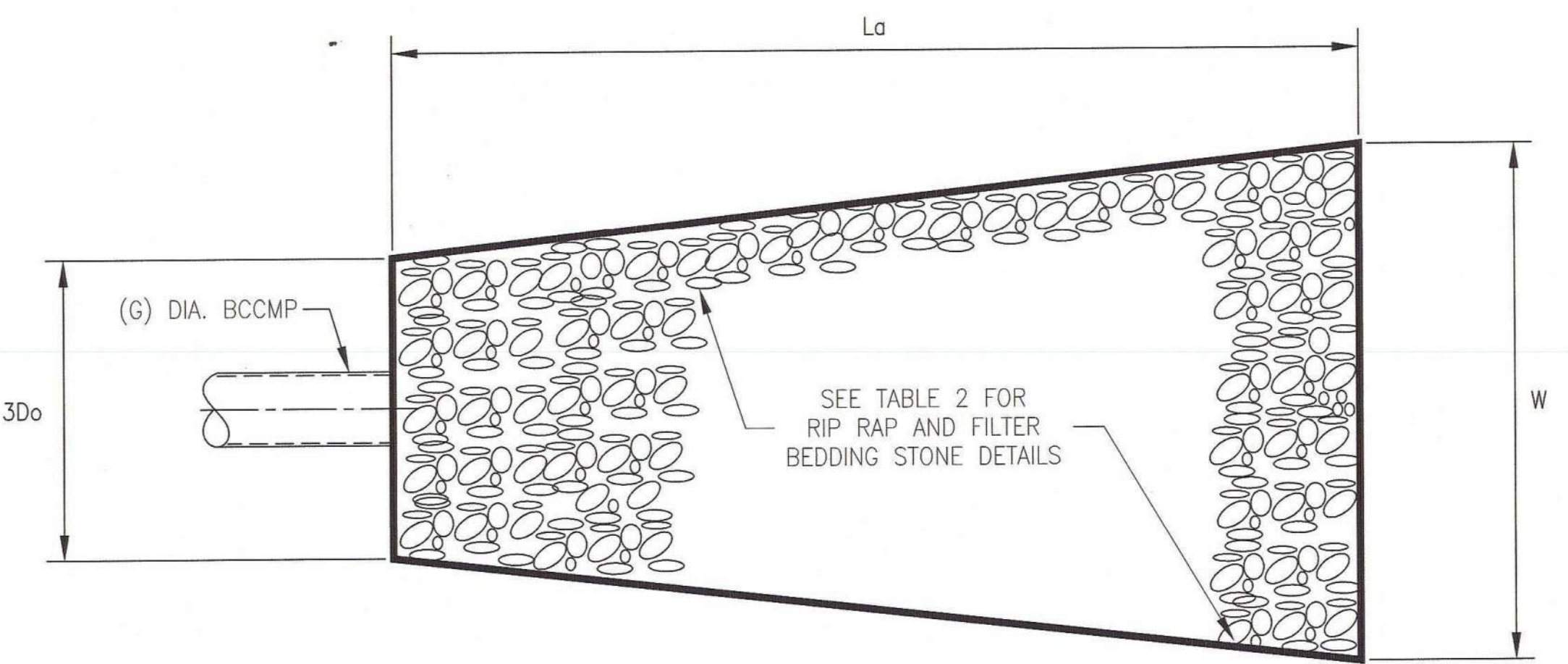
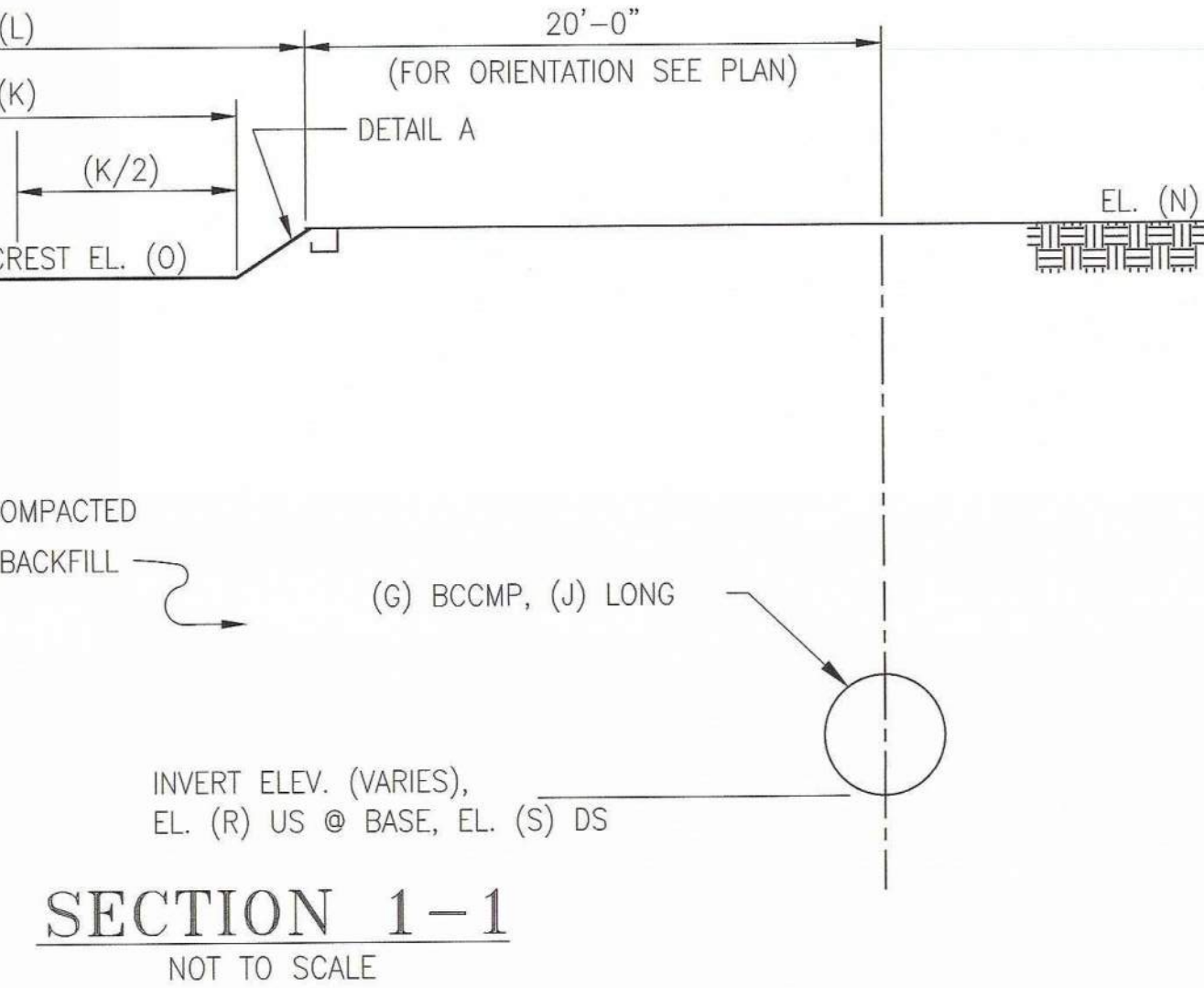
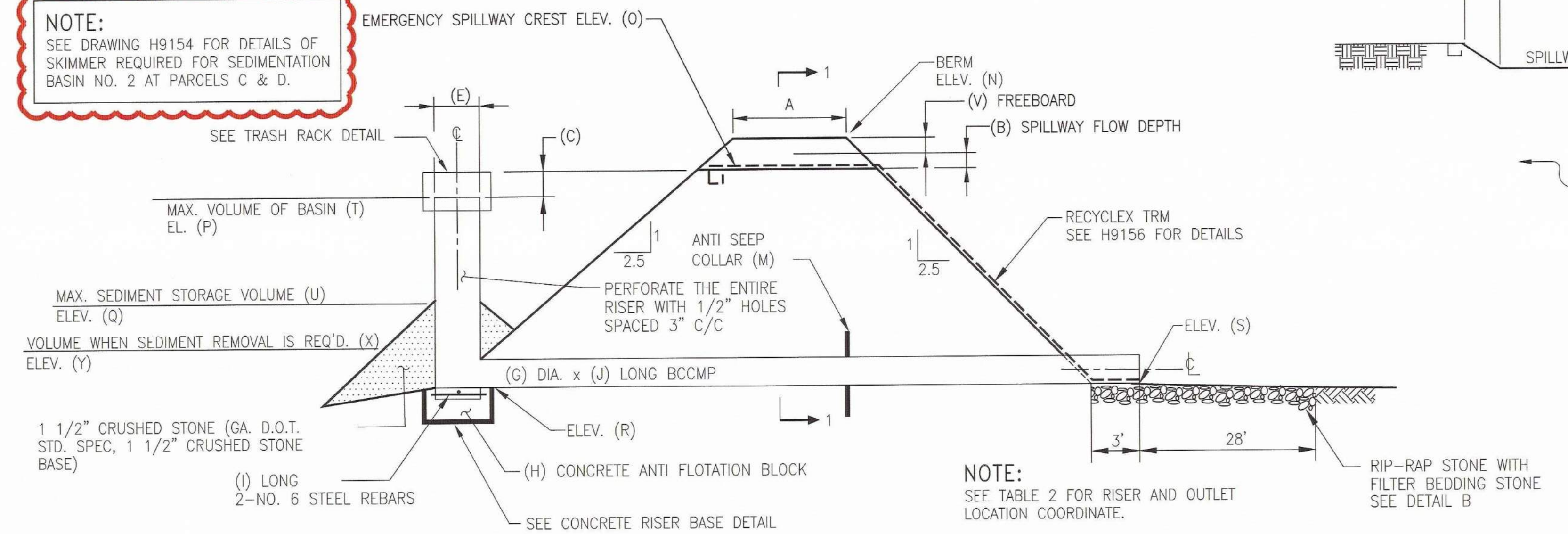




CULVERT OUTLET RIPRAP DETAILS (@ NEW CULVERT ONLY)

Pipe Diam.	Pipe Type	La	3Do	W	Rip Rap	Thick.	Filter Bedding Stone
12"	BCCMP	12'	3'	13'	N.S.A. #R-4	18"	N.S.A. #FS-2
24"	BCCMP	20'	6'	22'	N.S.A. #R-5	27"	N.S.A. #FS-2
30"	BCCMP	22'	7.5'	25'	N.S.A. #R-5	27"	N.S.A. #FS-2
36"	BCCMP	24'	9'	27'	N.S.A. #R-5	27"	N.S.A. #FS-2
42"	BCCMP	26'	10.5'	30'	N.S.A. #R-5	27"	N.S.A. #FS-2
48"	BCCMP	28'	12'	32'	N.S.A. #R-6	36"	N.S.A. #FS-3
60"	RCP	32'	15'	37'	N.S.A. #R-6	36"	N.S.A. #FS-3

NOTE:
SEE DRAWING H9154 FOR DETAILS OF SKIMMER REQUIRED FOR SEDIMENTATION BASIN NO. 2 AT PARCELS C & D.



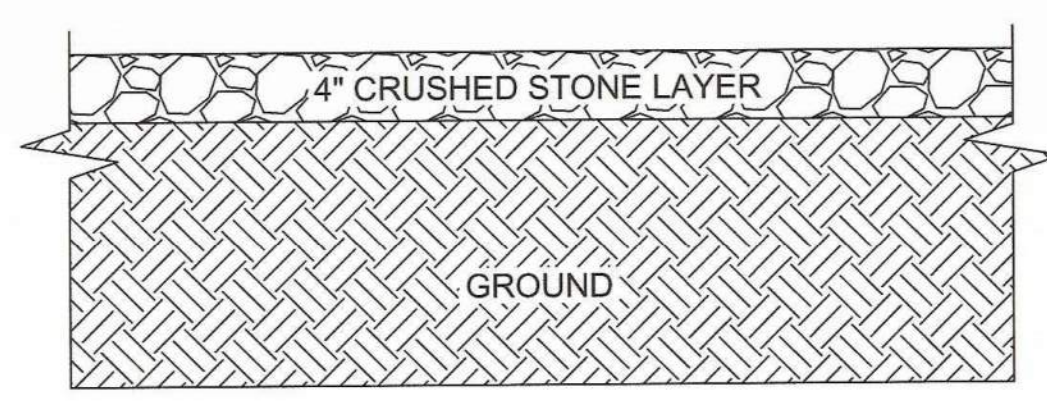
TYPICAL RISER & OUTLET PIPE PROFILE SEDIMENT BASINS & CLEAR POOLS NOT TO SCALE

TABLE 2 - RISER AND OUTLET LOCATION COORDINATES

	RISER CENTER		OUTLET DISCHARGE	
	NORTHING	EASTING	NORTHING	EASTING
SEDIMENT BASIN 1	1,564,456.00	1,953,839.00	1,564,396.00	1,953,839.00
CLEAR POOL 1	1,564,221.98	1,953,755.03	1,564,189.86	1,953,811.59
SEDIMENT BASIN 2	1,564,614.75	1,954,174.68	1,564,574.44	1,954,189.65
CLEAR POOL 2	1,564,361.64	1,954,282.61	1,564,328.51	1,954,210.08
SEDIMENT BASIN 3	1,562,563.49	1,951,908.82	1,562,504.24	1,951,909.33
CLEAR POOL 3	1,562,420.36	1,952,005.71	1,562,334.36	1,952,005.57

TABLE 1 - SEDIMENTATION POND AND CLEAR POOL DETAILS

	SEDIMENT BASIN 1	CLEAR POOL 1	SEDIMENT BASIN 2	CLEAR POOL 2	SEDIMENT BASIN 3	CLEAR POOL 3
TOP WIDTH OF BERM	A 8'	13'	8'	13'	8'	13'
EMERGENCY SPILLWAY FLOW DEPTH	B 0.5'	0.5'	0.5'	0.5'	0.5'	0.5'
STORAGE LEVEL - DIFFERENCE BETWEEN RISER AND EMER. SPILLWAY	C 0.5'	1.0'	1.0'	2.0'	1.0'	2.0'
TRASH RACK DIAMETER	D 66"	66"	66"	66"	66"	66"
RISER DIAMETER	E 48"	48"	48"	48"	48"	48"
RISER LENGTH (INCLUDES 9" INTO ANTI-FLOTATION BLOCK)	F 5'-9"	5'-9"	4'-3"	4'-9"	6'-9"	7'-9"
PRINCIPAL SPILLWAY PIPE DIAMETER	G 36"	36"	36"	36"	36"	36"
CONCRETE ANTI-FLOTATION BLOCK	H 84"x 84"x 18"	84"x 84"x 18"	84"x 84"x 18"	84"x 84"x 18"	84"x 84"x 18"	84"x 84"x 18"
LENGTH OF RISER ANCHORING BARS (REBAR)	I 78"	78"	78"	78"	78"	78"
LENGTH OF PRINCIPAL SPILLWAY PIPE	J 50'	65'	50'	80'	60'	86'
EMERGENCY SPILLWAY BOTTOM WIDTH	K 20'	20'	20'	20'	20'	20'
EMERGENCY SPILLWAY TOP WIDTH	L 29'	32'	32'	32'	32'	32'
ANTISEEP COLLAR	M 72" x 72"	72" x 72"	72" x 72"	72" x 72"	72" x 72"	72" x 72"
ELEVATION OF TOP OF BERM, FT MSL	N 650.0 ft	650.0 ft	650.0 ft	650.0 ft	633.0 ft	633.0 ft
ELEVATION OF EMERGENCY SPILLWAY CREST, FT MSL	O 648.5 ft	648.0 ft	648.0 ft	648.0 ft	631.0 ft	631.0 ft
ELEVATION OF TOP OF RISER, FT MSL	P 648.0 ft	647.0 ft	647.0 ft	646.0 ft	630.0 ft	629.0 ft
MAXIMUM SEDIMENT STORAGE ELEV., FT MSL	Q 644.25 ft	643.0 ft	644.0 ft	643.0 ft	626.0 ft	625.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT INLET, FT MSL (BOTTOM POND EL.)	R 643.0 ft	642.0 ft	643.5 ft	642.0 ft	624.0 ft	622.0 ft
ELEVATION OF PRINCIPAL SPILLWAY AT OUTLET, FT MSL	S 642.7 ft	641.35 ft	643.2 ft	641.5 ft	623.7 ft	620.0 ft
MAXIMUM VOLUME OF BASIN, CUBIC YARDS	T 24,575	2,989	13,826	1,330	16,794	6,917
MAXIMUM SEDIMENT STORAGE VOLUME, CUBIC YARDS	U 3,353	259	2,198	137	3,460	2,428
FREEBOARD	V 1'	1.5'	1.5'	1.5'	1.5'	1.5'
CLEAN OUT VOLUME, CUBIC YARDS	X 877	86	630	45	596	809
ELEVATION WHEN CLEANOUT REQUIRED	Y 643.3	642.3	643.2	642.3	624.5	623.3



GENERAL NOTES:

1. THE AREA TO RECEIVE THE PIPE SHALL BE HAND COMPACTED AND ANY SOFT OR UNSUITABLE MATERIAL REMOVED, THE AREA BACKFILLED, AND COMPACTED.
2. THE PIPE AND RISER SHALL BE PLACED ON FIRM, SMOOTH FOUNDATION.
3. THE BACKFILL MATERIAL SHALL BE CLEAN SOIL, FREE OF ROOTS, VEGETATION, OVERSIZED ROCKS, STONES OR OTHER OBJECTIONABLE MATERIAL.
4. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO FILL PLACEMENT.
5. FILL MATERIAL SHALL BE CONDITIONED, PLACED AND COMPACTED IN ACCORDANCE WITH THE CONSTRUCTION QUALITY CONTROL/QUALITY ASSURANCE PLAN AND THE SPECIFICATIONS FOR EARTH FILL ON DRAWING H9157.
6. THE RISER SHALL BE SECURELY ATTACHED TO THE PIPE OR STUB BY WELDING THE FULL CIRCUMFERENCE MAKING A WATERTIGHT STRUCTURAL CONNECTION.
7. THE CONNECTION BETWEEN THE RISER AND THE RISER BASE SHALL BE WATERTIGHT.
8. ALL CONNECTIONS BETWEEN PIPE SECTIONS SHALL BE WATERTIGHT, ACHIEVED BY APPROVED WATERTIGHT BAND ASSEMBLIES.
9. THE FILL MATERIAL AROUND THE PIPE SHALL BE PLACED IN 4 INCH LAYERS AND HAND COMPACTED UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT FILL MATERIAL.
10. CARE MUST BE TAKEN TO NOT RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.
11. A MINIMUM DEPTH OF 2 FT. OF HAND COMPACTED FILL SHALL BE PLACE OVER THE PIPE BEFORE PLACING AND COMPACTING FILL WITH CONSTRUCTION EQUIPMENT.
12. TRASH RACK NUTS, BOLTS, THREADS AND RODS SHALL BE BITUMINOUS COATED AFTER INSTALLATION.
13. ALL DISTURBED SOIL AREAS SHALL BE GRASSED UPON REACHING FINAL GRADE IN ACCORDANCE WITH THE VEGETATION SCHEDULE, DRAWING H9158.

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057022D(11)

APPROVED BY: *R. Naji* DATE: 4/15/2014

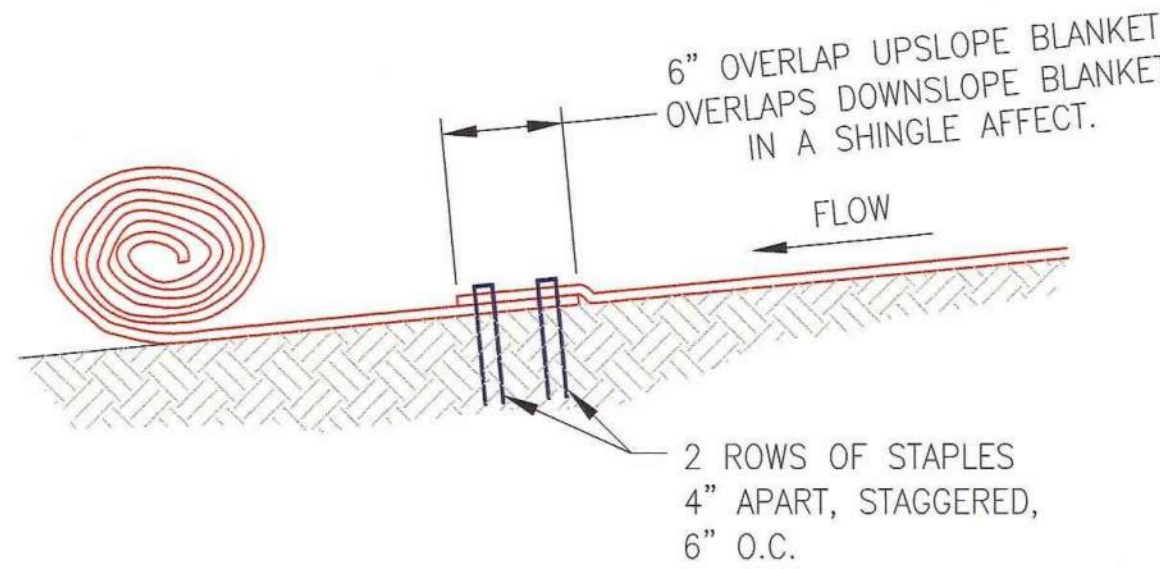
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APR -4 2014
SOLID WASTE
MANAGEMENT PROGRAM



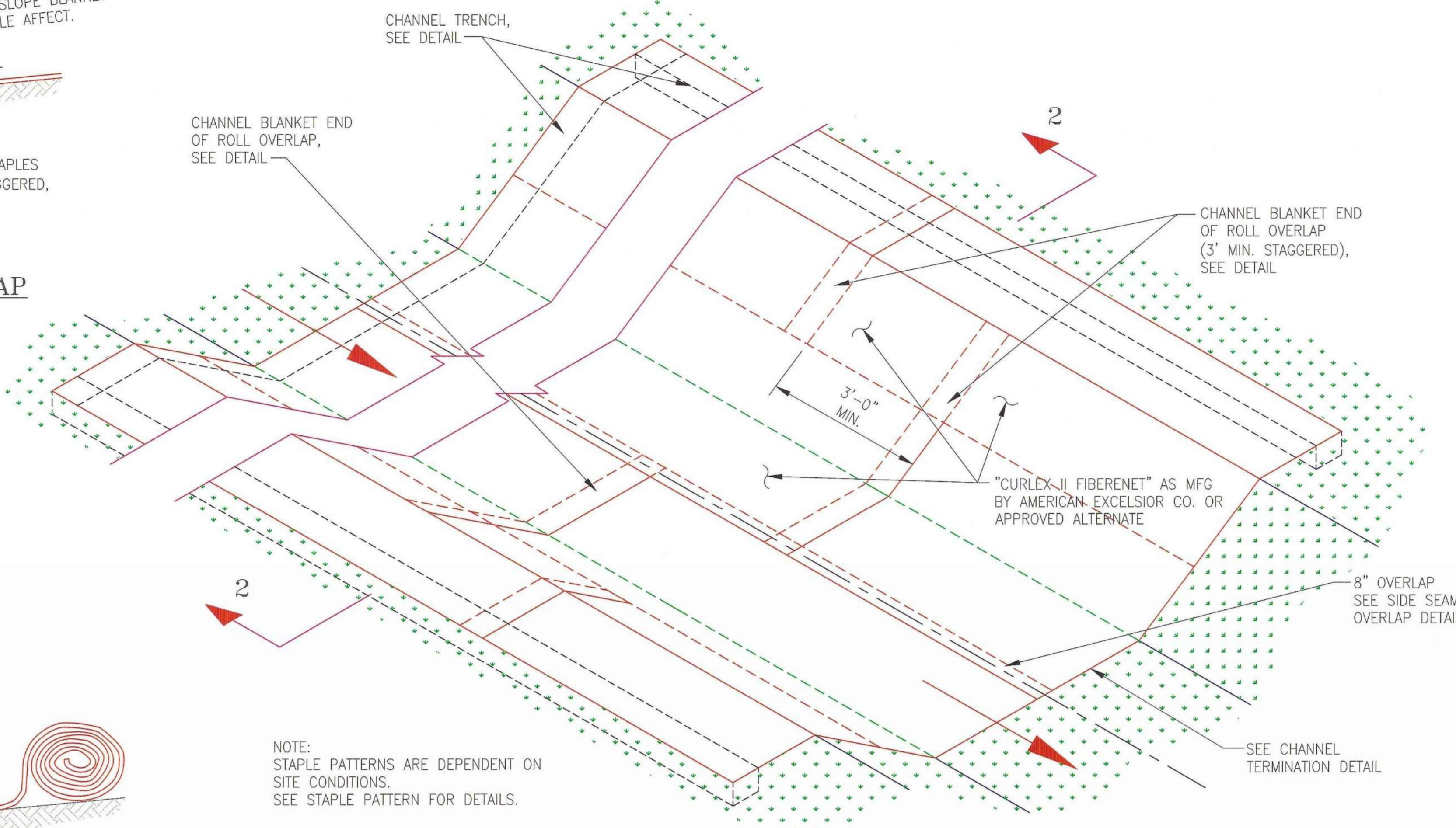
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ISSUED FOR MINOR MODIFICATION	ISSUED FOR PERMIT/CONSTRUCTION	ISSUED FOR PERMIT	ISSUED FOR PERMIT	ISSUED FOR PERMIT	ISSUED FOR PERMIT	ISSUED FOR PERMIT
REV. 5 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. FE012087	a. (C3) MODIFIED COORDINATES. b. (B6) MODIFIED TABLE 1 PIPE LENGTH & INV. ELEV.	a. MODIFIED TABLE OF DETAIL B. b. MODIFIED TABLE 2.				
MWO: GPC232851,55,56,58 GPC232870,74,76,77	REA: HM01208 EWO: 3158CG	REA: HM01208 EWO: 3158CG	REA: HM01208 EWO: 3158CG	REA: HM01208 EWO: 3158CG	REA: HM01208 EWO: 3158CG	REA: HM01208 EWO: 3158CG
BY: CRU CHK'D: GHM CIVIL APPR: MHL ELECT APPR: LHB MECH APPR: KAM	BY: JDM CHK'D: GHM CIVIL APPR: ELM	BY: JDM CHK'D: GHM CIVIL APPR: ELM	BY: JDM CHK'D: GHM CIVIL APPR: ELM	BY: JDM CHK'D: GHM CIVIL APPR: ELM	BY: JDM CHK'D: GHM CIVIL APPR: ELM	BY: JDM CHK'D: GHM CIVIL APPR: HP
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SH: 1	SH: 1	SH: 1	SH: 1	SH: 1	SH: 1	SH: 1
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REV: 5	REV: 5	REV: 5	REV: 5	REV: 5	REV: 5	REV: 5

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
EROSION CONTROL SECTIONS & DETAILS

NOTE:
STAPLE PATTERNS ARE DEPENDENT
ON SITE CONDITIONS. SEE STAPLE
PATTERN FOR DETAILS.

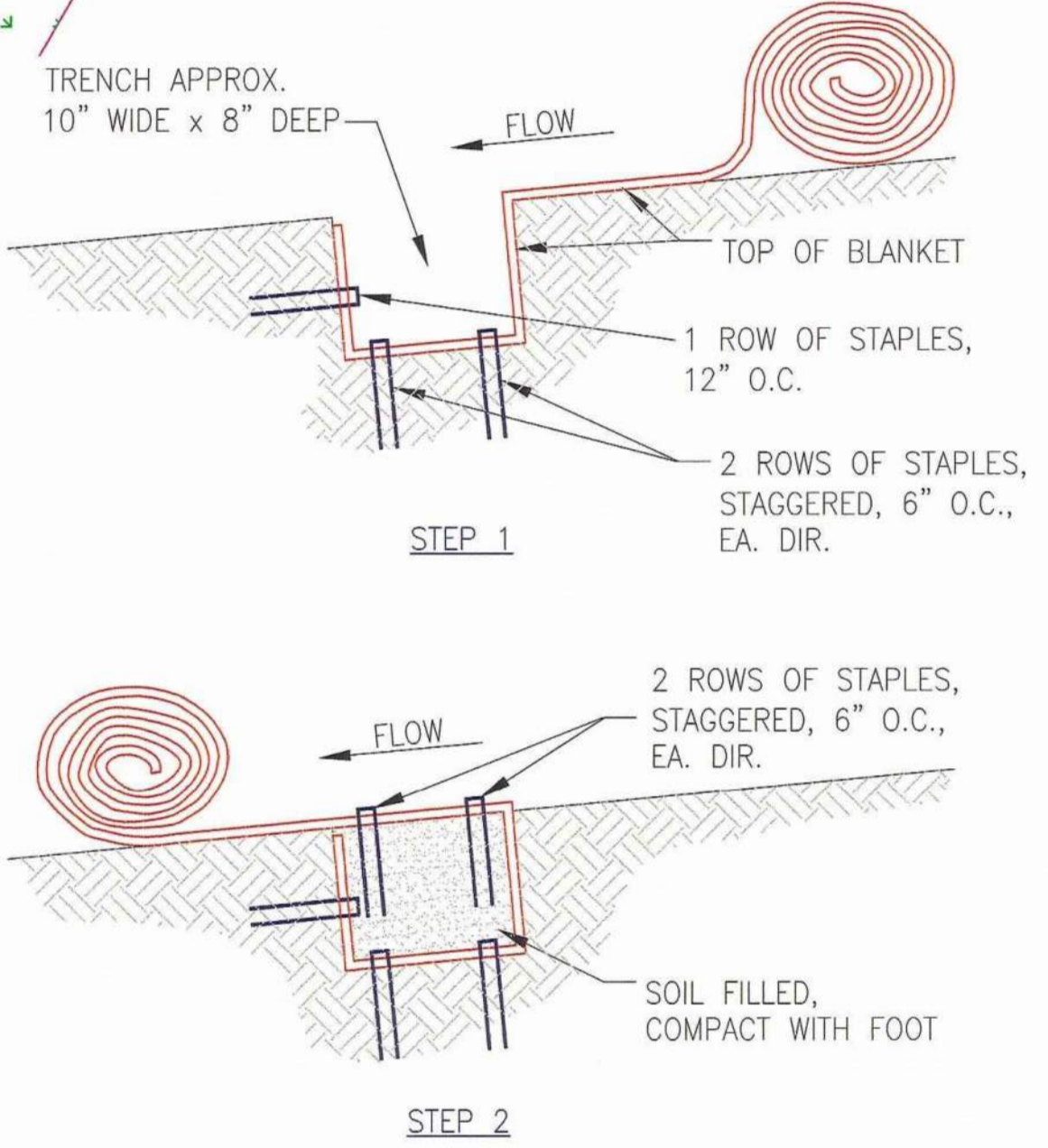


**CHANNEL BLANKET
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NOT TO SCALE

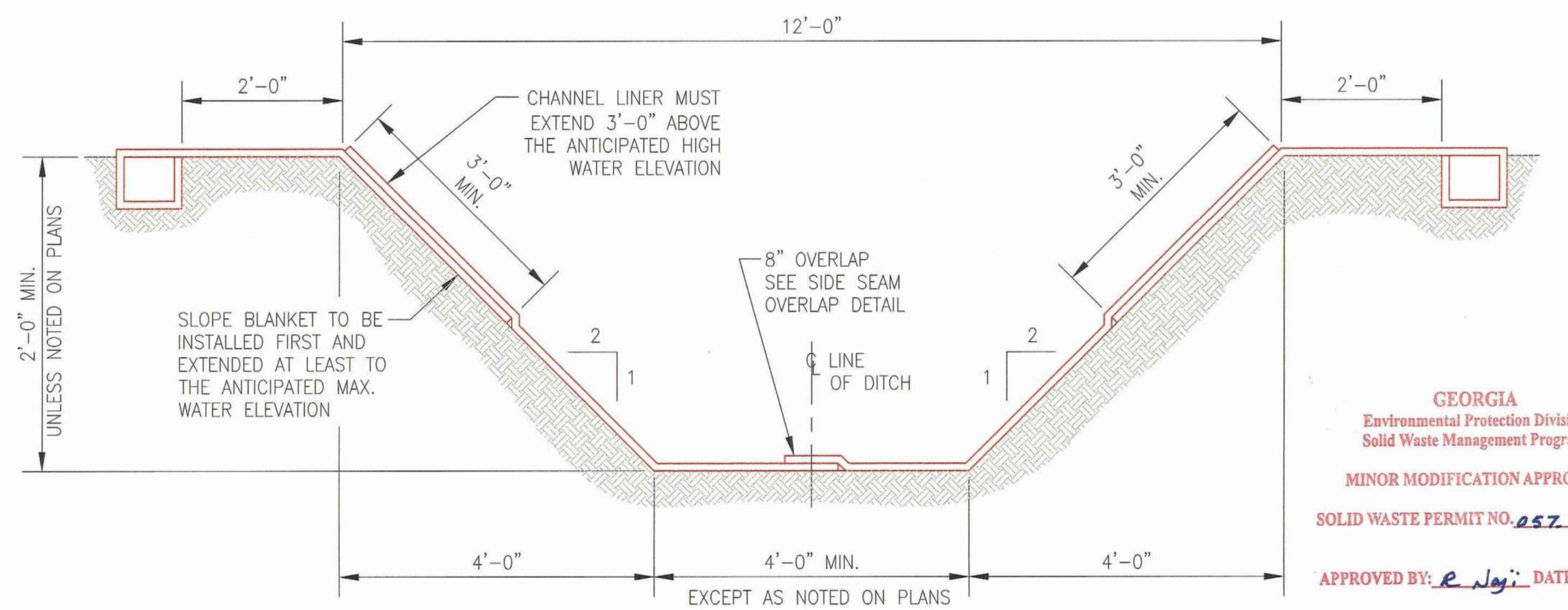


PERIMETER DITCH LINER DETAIL
NOT TO SCALE

NOTE:
STAPLE PATTERNS ARE DEPENDENT ON
SITE CONDITIONS.
SEE STAPLE PATTERN FOR DETAILS.



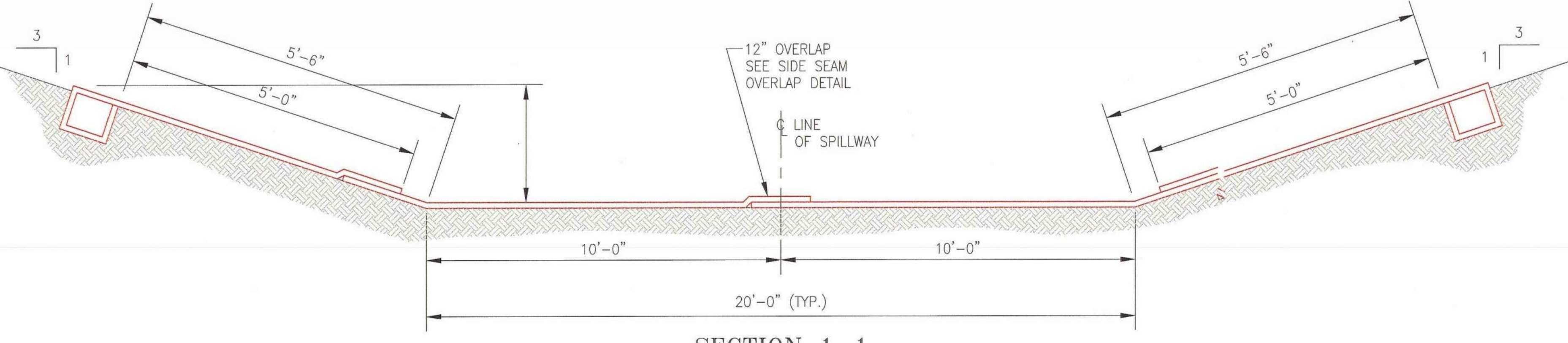
SLOPE TRENCH
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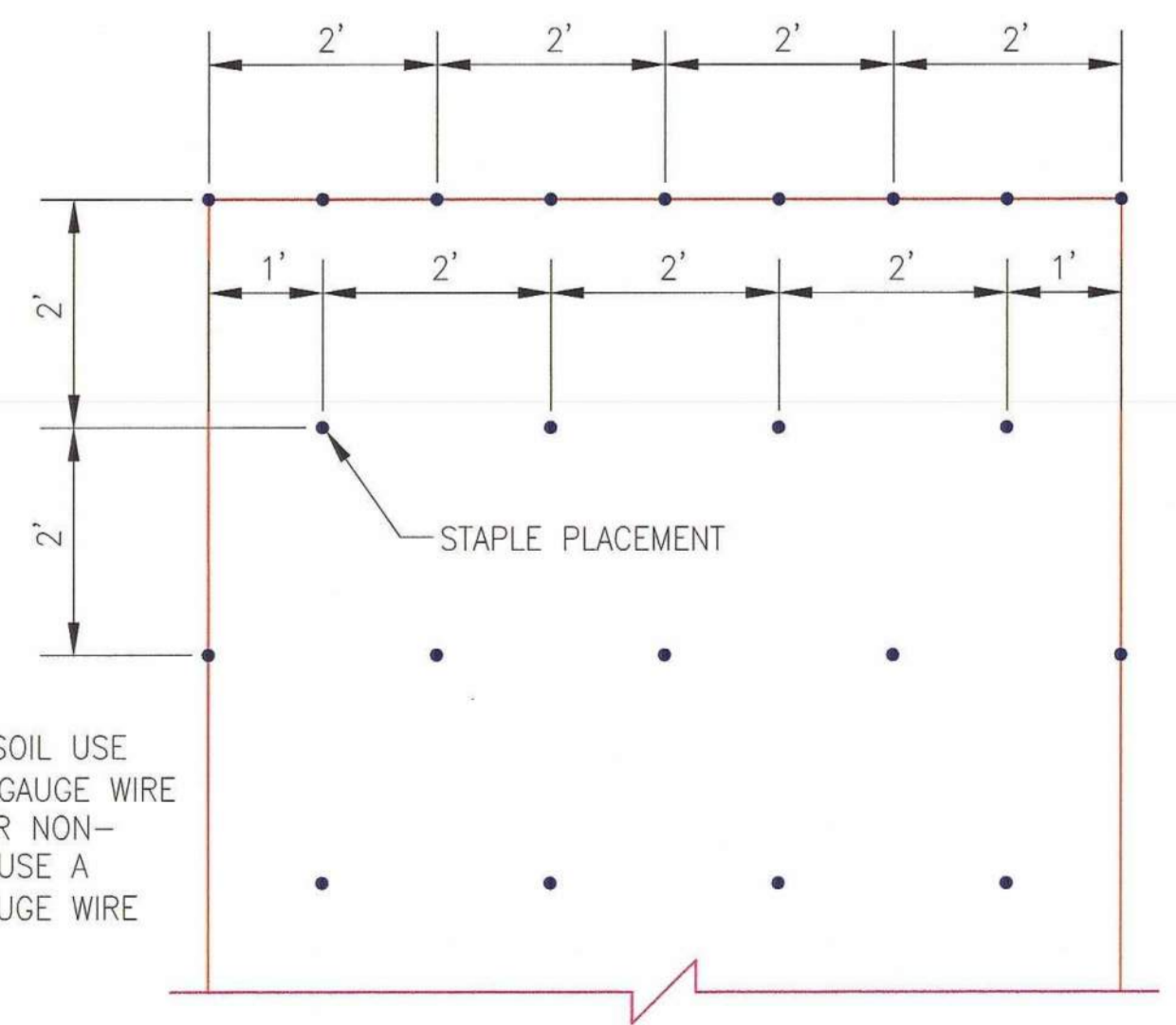
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NOT TO SCALE

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-0220113
APPROVED BY: *R. Jay* DATE: 4/15/2014

EMERGENCY SPILLWAY LINER DETAIL
NOT TO SCALE

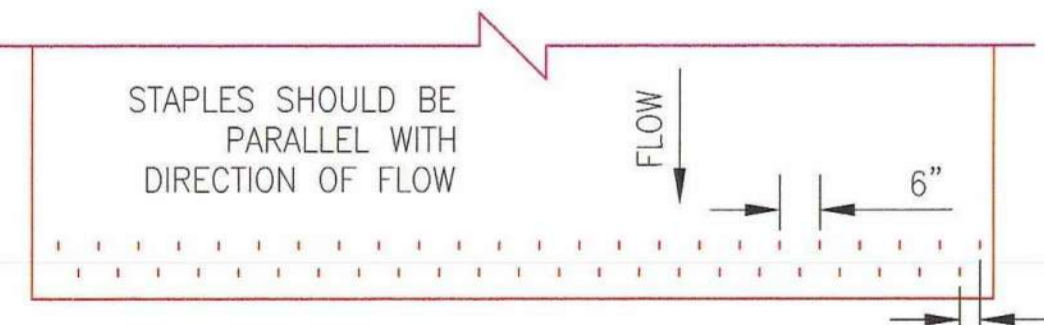


SECTION 1-1
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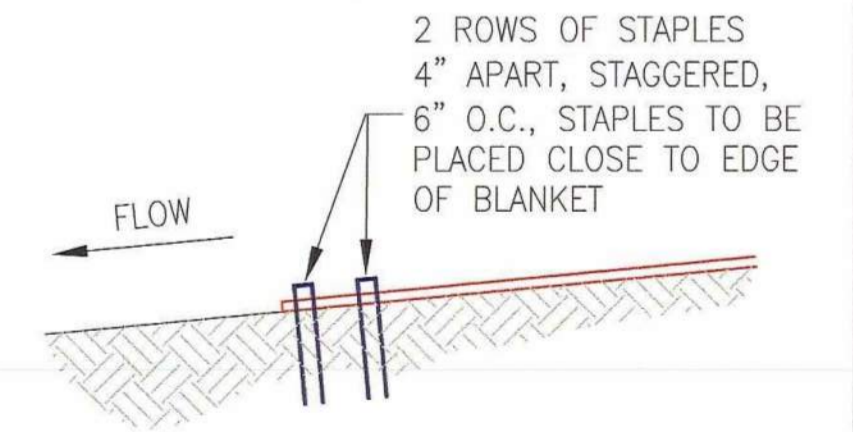


STAPLE PATTERN
NOT TO SCALE

NOTE:
FOR COHESIVE SOIL USE
A 6"x1"x6" 11 GAUGE WIRE
STAPLE AND FOR NON-
COHESIVE SOIL USE A
8"x2"x8" 11 GAUGE WIRE
STAPLE.



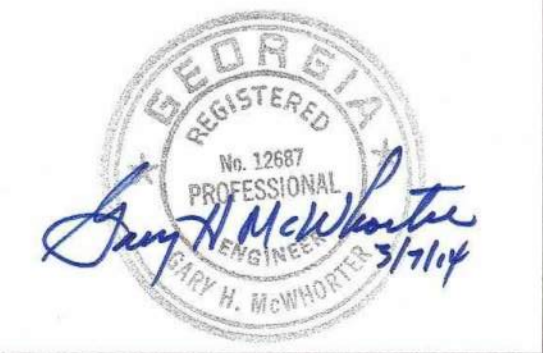
CHANNEL TERMINATION PLAN
NOT TO SCALE



CHANNEL TERMINATION
NOT TO SCALE

REFERENCES:

1. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
2. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.



REV. 3 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	
CRU	MHL	LHB				KAM	
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	
JDM	GHM	ELM				JDM	
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	
JDM	GHM	ELM				JDM	

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Southern Company Services, Inc.
FOR

GEORGIA POWER COMPANY

PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY

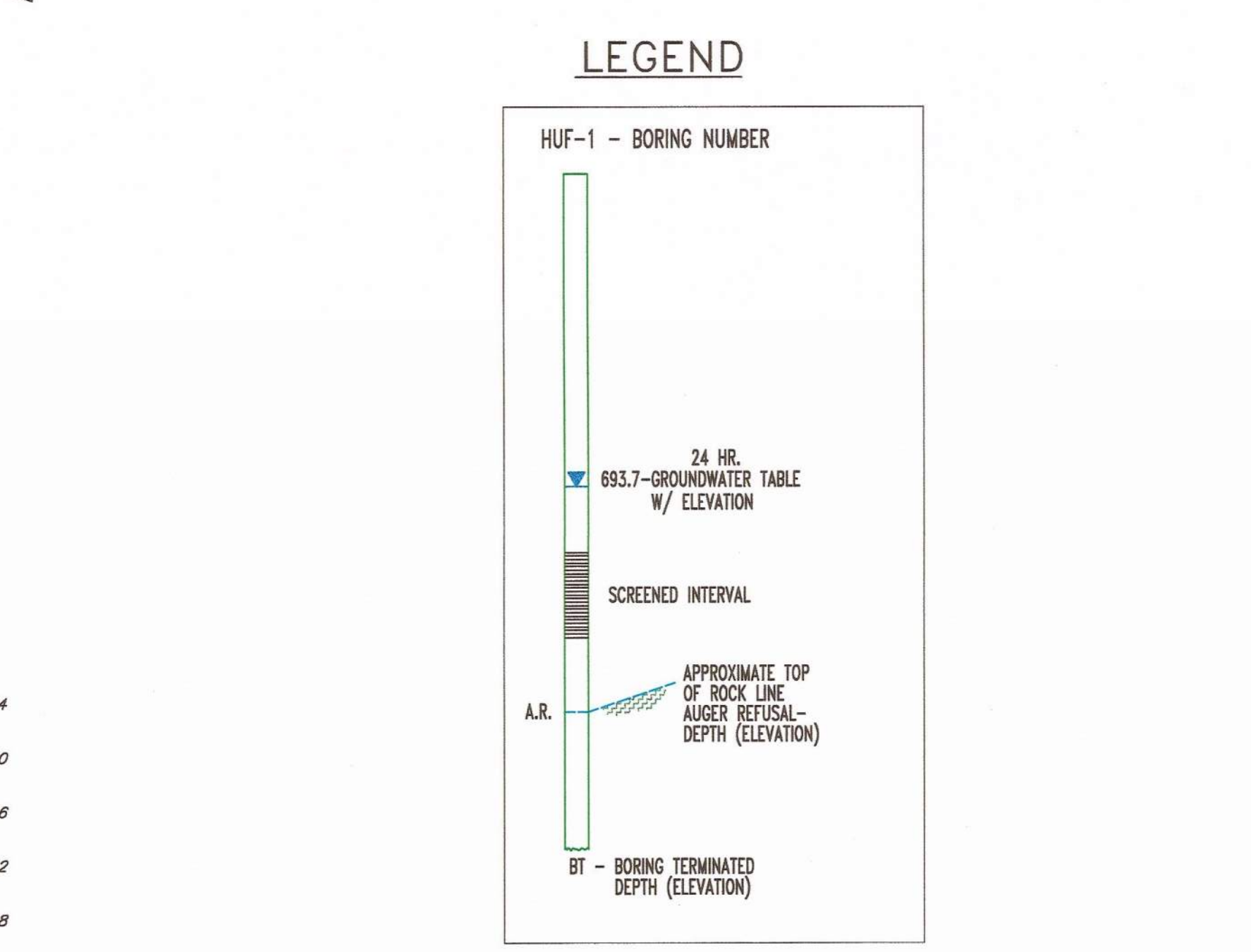
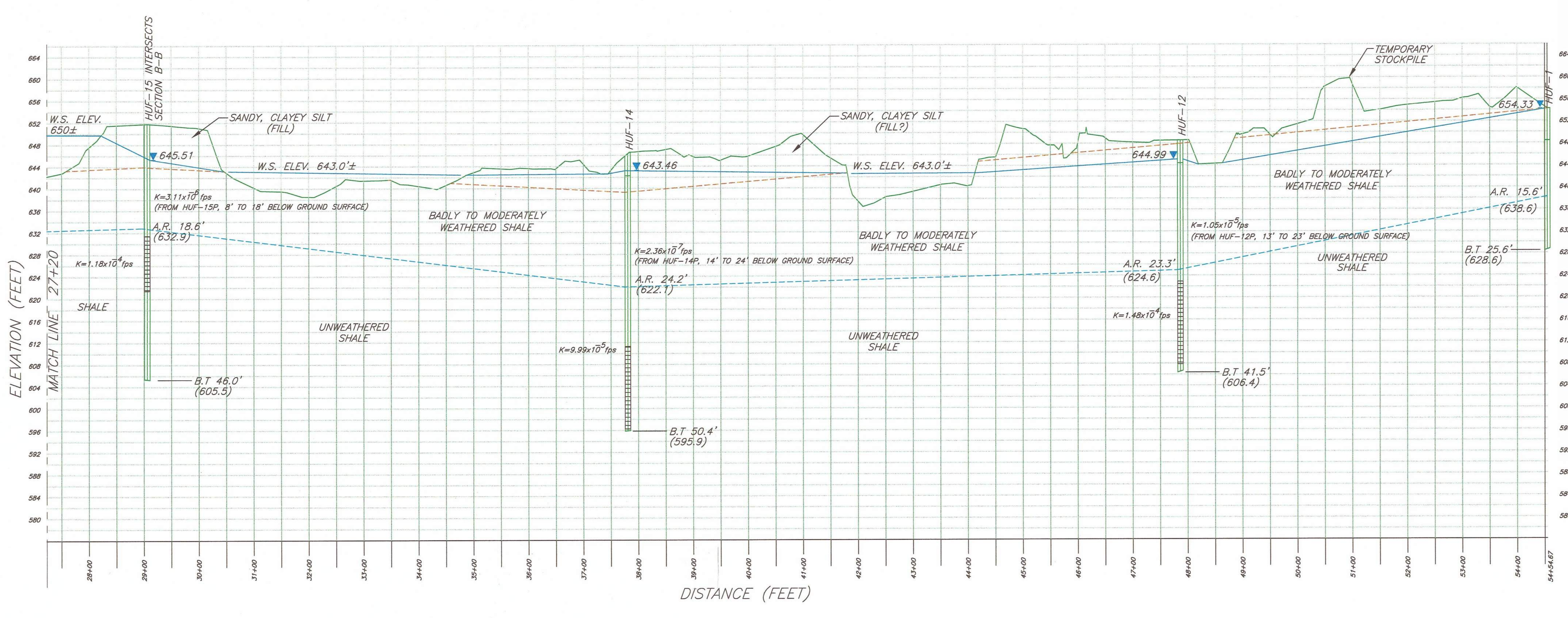
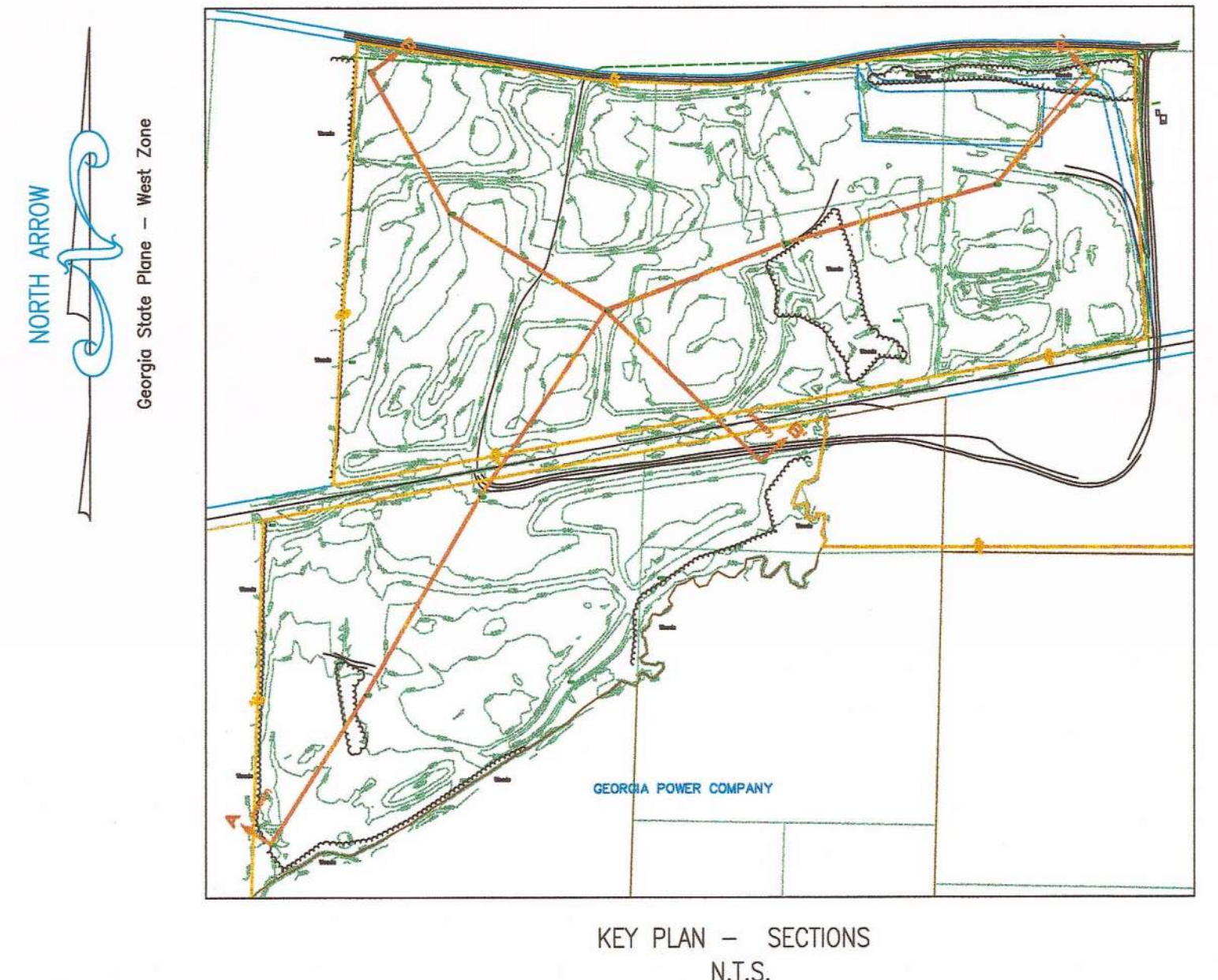
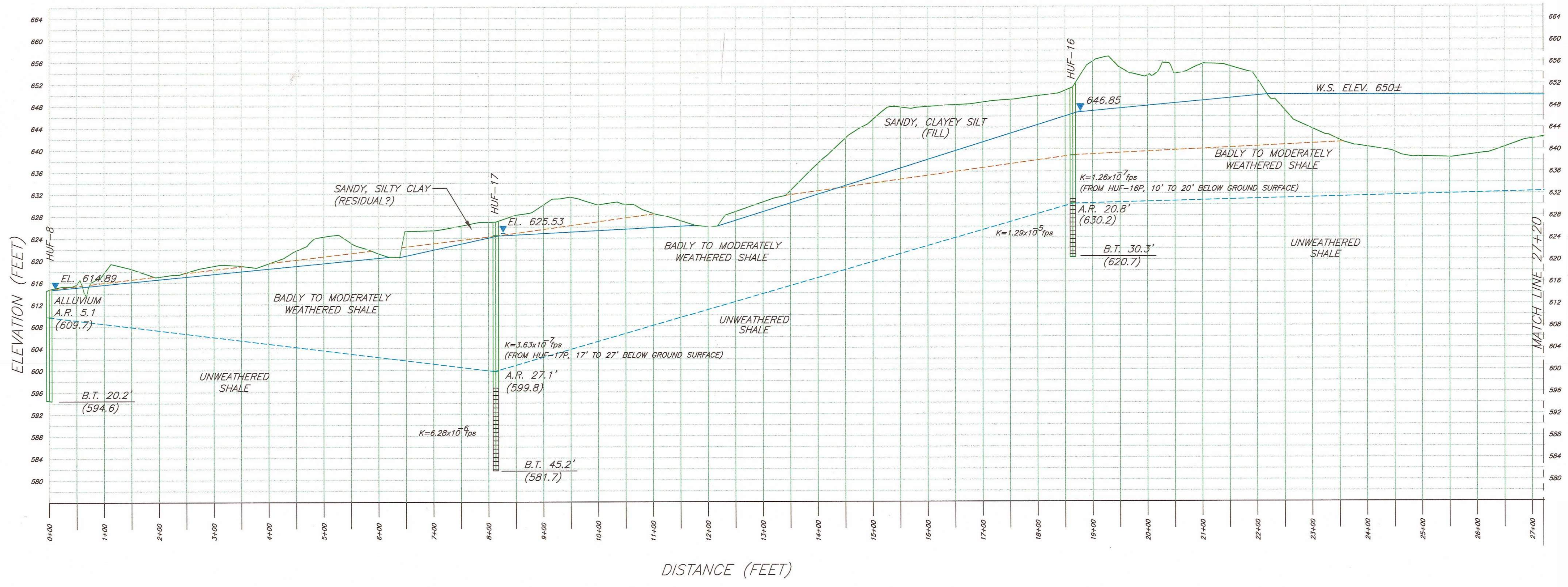
EROSION CONTROL SECTIONS & DETAILS

SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONT'D	REV
NONE		H9156	1	FINAL	3

END OF ROLL OVERLAP
NOT TO SCALE

**SIDE SEAM OVERLAP
STAPLE DETAIL**
NOT TO SCALE

BOTTOM OF SLOPE TERMINATION
NOT TO SCALE



- NOTES:**
- THIS DRAWING WAS PREPARED FOR THE "HUFFAKER ROAD SITE ACCEPTABILITY REPORT, COAL COMBUSTION BY-PRODUCTS STORAGE SITE, PLANT HAMMOND UNITS 1-4."
 - INTERPRETATIONS OF OVERBURDEN, RESIDUAL SOILS, ROCK TYPES, ROCK CHARACTERISTICS AND DEGREE OF WEATHERING ARE TRUE ONLY AT THE BORING LOCATION. PROFESSIONAL JUDGEMENT HAS BEEN USED TO EVALUATE THE DATA COLLECTED. ANY INTERPOLATION OF CONDITIONS BETWEEN BORINGS IS CONJECTURE AND THE ACCURACY OF SUCH INTERPOLATION IS NOT GUARANTEED. THE LINES DESIGNATING THE INTERFACES BETWEEN VARIOUS STRATA ARE APPROXIMATE ONLY, AS TRANSITIONS BETWEEN MATERIALS MAY BE GRADUAL. GROUND WATER LEVELS FLUCTUATE SEASONALLY AND WITH CLIMATIC CONDITIONS, THEREFORE, GROUND WATER CONDITIONS ENCOUNTERED AT OTHER TIMES MAY VARY FROM THOSE SHOWN.
 - GROUNDWATER ELEVATIONS MEASURED JAN. 28, 2002.
 - HYDRAULIC CONDUCTIVITY VALUES (K) WERE OBTAINED FROM SLUG TESTING.

REFERENCE DRAWINGS

GPC LAND DEPARTMENT MAP FILE NO. H-628-10 ASH MONOFILL SITE
 GPC LAND DEPARTMENT MAP FILE NO. H-628-11 SITE TOPOGRAPHIC MAP

FOR COMPLETE DRAWING REFERENCES SEE H-9130

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program

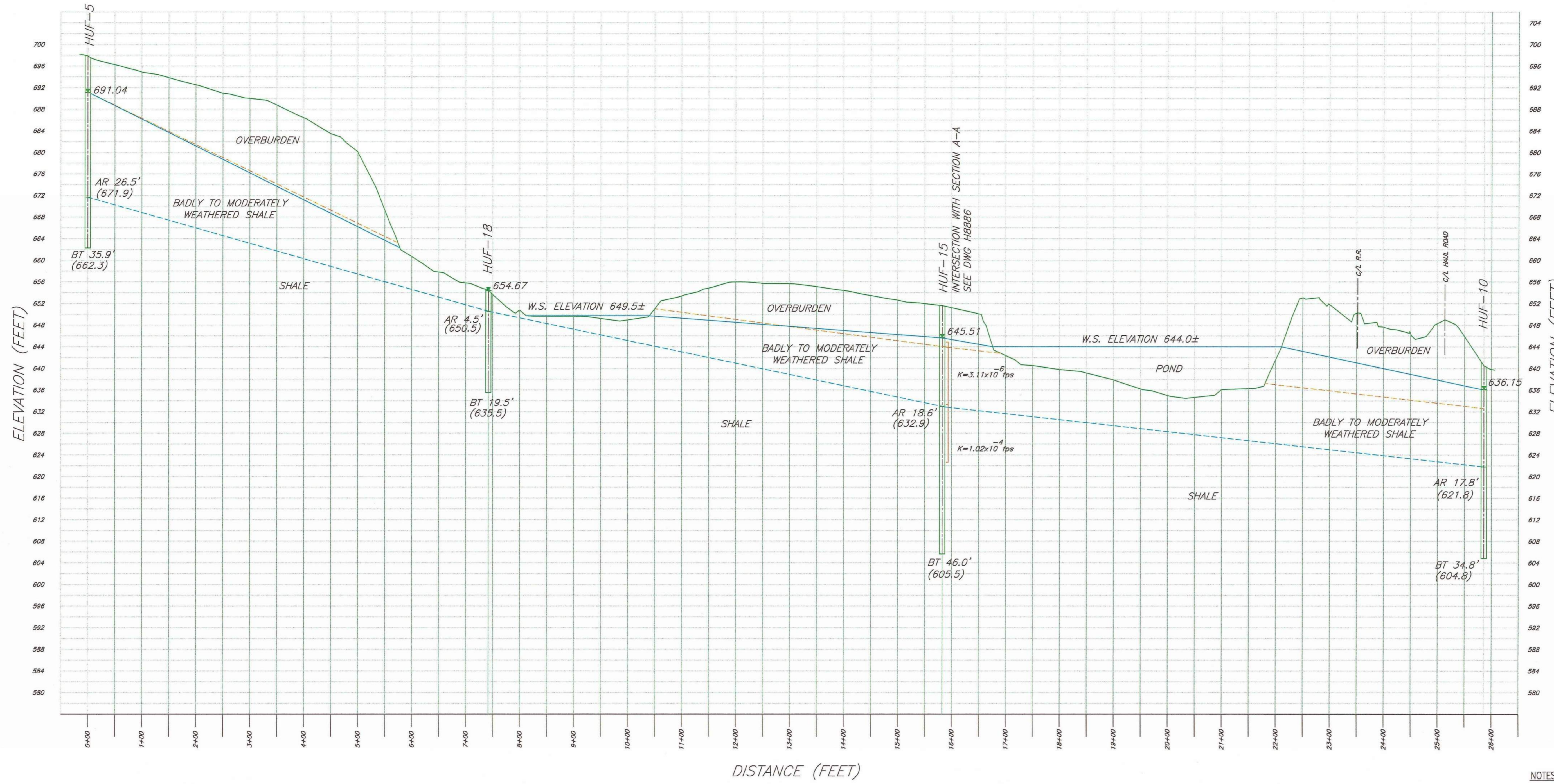
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 SOLID WASTE PERMIT NO. 057,022 D(13)

APPROVED BY: *R. Jogi* DATE: 4/15/2014

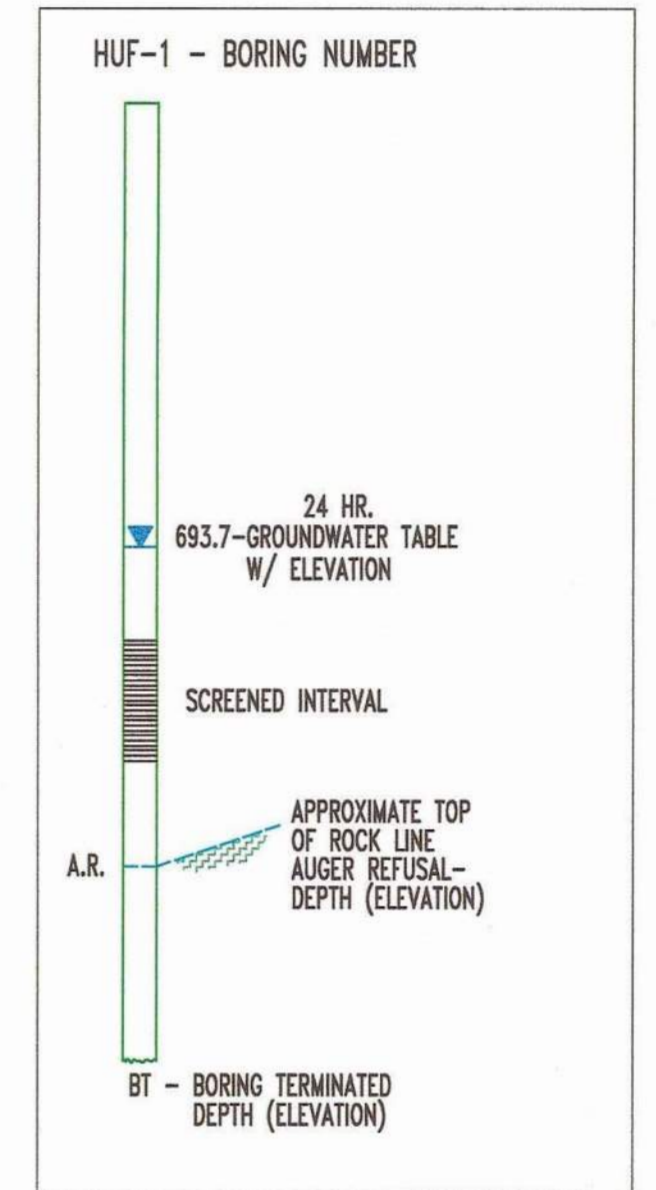
REV. 2 OF THIS DRAWING WAS SEALED BY
 JOHN D. PUGH, GEORGIA REGISTERED
 PROFESSIONAL GEOLOGIST NO. 1954

SECTION A-A'
 1"=100' (HORIZONTAL)
 1"=10' (VERTICAL)

REVISION 2 DATE 05/15/2013			REVISION 1 DATE 09/15/2005			REVISION 0 DATE 9/01/2004		
ISSUED FOR MINOR MODIFICATION			RE-ISSUED FOR PERMIT			ISSUED FOR PERMIT		
MWO: GPC232851,55,56,58 MWO: GPC232870,74,76,77			HAMMOND UNITS 1-4 MATS PROJECT			EWO: 3158CG		
BY: AMH THH JDP			BY: ASF JCR JDM			BY: ASF RDA HP		
CHK'D: THH JDP			CHK'D: JCR JDM			CHK'D: RDA HP		
CIVIL APPR: JDP			CIVIL APPR: JCR			CIVIL APPR: RDA		
ELECT APPR: JDP			ELECT APPR: JCR			ELECT APPR: RDA		
I/C APPR: JDP			I/C APPR: JCR			I/C APPR: RDA		
MECH APPR: JDP			MECH APPR: JCR			MECH APPR: RDA		
MGR APPR: JDP			MGR APPR: JCR			MGR APPR: RDA		
SCALE: NONE			PROJ. I.D.: 10301			DRAWING NUMBER: H-9161		
SHEET: 1			CONT'D: 2			REV: FINAL		



LEGEND



GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057.022.D(11)
APPROVED BY: *R.M.J.* DATE: 11/1/2014

- NOTES:**
- THIS DRAWING WAS PREPARED FOR THE "HUFFAKER ROAD SITE ACCEPTABILITY REPORT, COAL COMBUSTION BY-PRODUCTS STORAGE SITE, PLANT HAMMOND UNITS 1-4."
 - INTERPRETATIONS OF OVERBURDEN, RESIDUAL SOILS, ROCK TYPES, ROCK CHARACTERISTICS AND DEGREE OF WEATHERING ARE TRUE ONLY AT THE BORING LOCATION. PROFESSIONAL JUDGEMENT HAS BEEN USED TO EVALUATE THE DATA COLLECTED. ANY INTERPOLATION OF CONDITIONS BETWEEN BORINGS IS CONJECTURE AND THE ACCURACY OF SUCH INTERPOLATION IS NOT GUARANTEED. THE LINES DESIGNATING THE INTERFACES BETWEEN VARIOUS STRATA ARE APPROXIMATE ONLY, AS TRANSITIONS BETWEEN MATERIALS MAY BE GRADUAL. GROUND WATER LEVELS FLUCTUATE SEASONALLY AND WITH CLIMATIC CONDITIONS, THEREFORE, GROUND WATER CONDITIONS ENCOUNTERED AT OTHER TIMES MAY VARY FROM THOSE SHOWN.
 - GROUNDWATER ELEVATIONS MEASURED JAN. 28, 2002.
 - HYDRAULIC CONDUCTIVITY VALUES (K) WERE OBTAINED FROM SLUG TESTING.

REFERENCE DRAWINGS

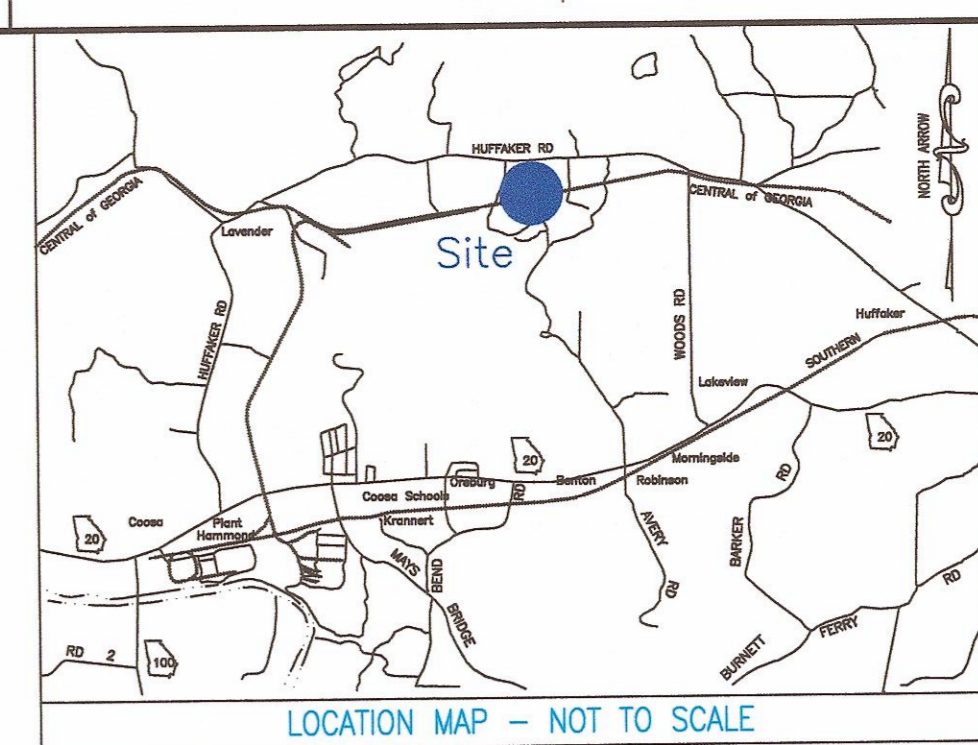
GPC LAND DEPARTMENT MAP FILE NO. H-628-10 ASH MONOFILL SITE
GPC LAND DEPARTMENT MAP FILE NO. H-628-11 SITE TOPOGRAPHIC MAP
FOR COMPLETE DRAWING REFERENCES SEE H-9130

SECTION B-B'
1"=100' (HORIZONTAL)
1"=10' (VERTICAL)



REV. 2 OF THIS DRAWING WAS SEALED BY
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PROFESSIONAL GEOLOGIST NO. 1954

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GEORGIA POWER COMPANY		PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY GEOLOGICAL CROSS-SECTION B-B'	
REVISION 2	DATE 05/15/2013	REVISION 1	DATE 09/15/2005
ISSUED FOR MINOR MODIFICATION		RE-ISSUED FOR PERMIT	
REVISION 0	DATE 9/01/2004	ISSUED FOR PERMIT	
MWO: GPC232851,55,56,58 MWO: GPC232870,74,76,77	HAMMOND UNITS 1-4 MATS PROJECT	REA: HM01208	EWO: 3158CG
BY: AMH	CHK'D: THH	CIVIL APPR: JDP	ELECT APPR: JDP
BY: ASF	CHK'D: JCR	CIVIL APPR: JDM	ELECT APPR: JDM
BY: ASF	CHK'D: RDA	CIVIL APPR: HP	ELECT APPR: HP
SCALE: NONE	PROJ. I.D.: 10301	DRAWING NUMBER: H-9162	SH: 1
			CONTD: FINAL
			REV: 2



UTILITY LEGEND

- Electric Manhole
- Electric Meter
- Gas Manhole
- Gas Valve
- Gas Meter
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- Storm Sewer Manhole
- Telephone Manhole
- Water Manhole
- Water Valve
- Water Meter
- Fire Hydrant
- Well
- Power Pole
- Transmission Tower
- Guy Wire

PLAT ABBREVIATIONS

- IPF - Iron Pin Found
- IPS - Iron Pin Set
- FPS - Fence Post Set
- OTF - Open Top Pipe
- CTP - Crimp Top Pipe
- Alum. - Aluminum
- Conc. - Concrete
- P/L - Property Line
- R/W - Right of Way
- C/L - Centerline
- F/L - Fence Line
- T/L - Transmission Line
- N/F - Now or Formerly
- DB - Dead Book
- PB - Plot Book
- MF - Map File No.

MONUMENTATION LEGEND

- Iron Pin Set
- Iron Pin Found
- Monument Set
- Monument Found

GEORGIA
Environmental Protection Division
Solid Waste Management Program

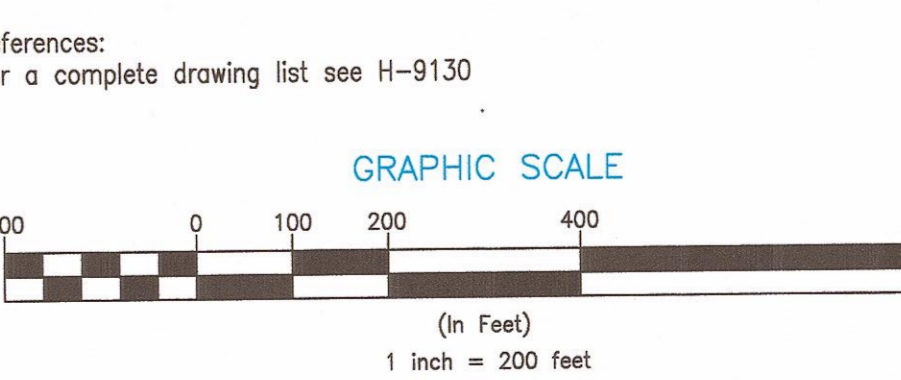
MINOR MODIFICATION APPROVAL

SOLID WASTE PERMIT NO. 057-022(D/L1)

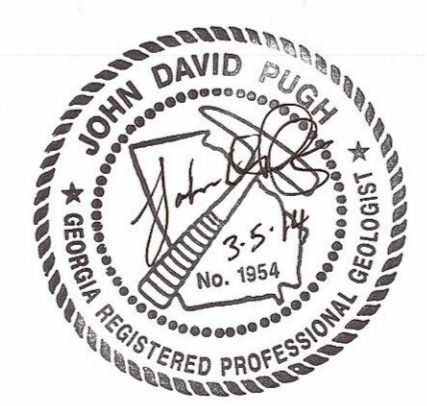
APPROVED BY: P. Neji DATE: 11/5/2014

Notes:

- 1) For property information, see GPC Land Dept. Map File No. H-628-10.
- 2) All horizontal control shown is Georgia State Plane - West Zone NAD83/94.
- 3) All vertical control shown is NAVD83.
- 4) For location of access easements see Georgia Power Land Department Map drawing H-628-10.
- 5) For general plan legend see drawing H9165.

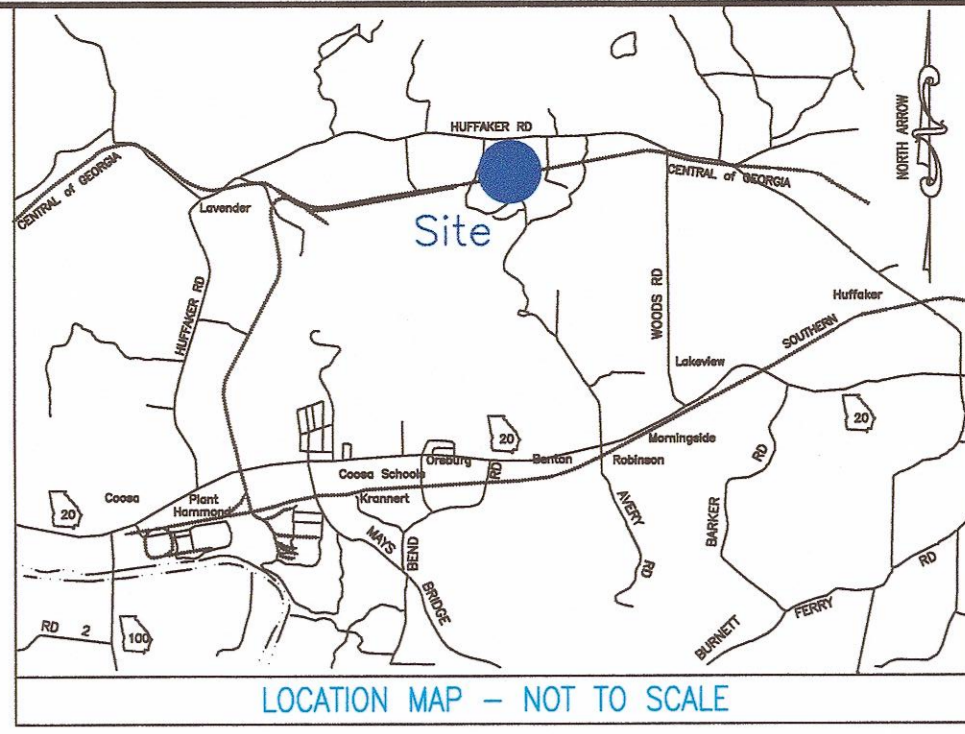
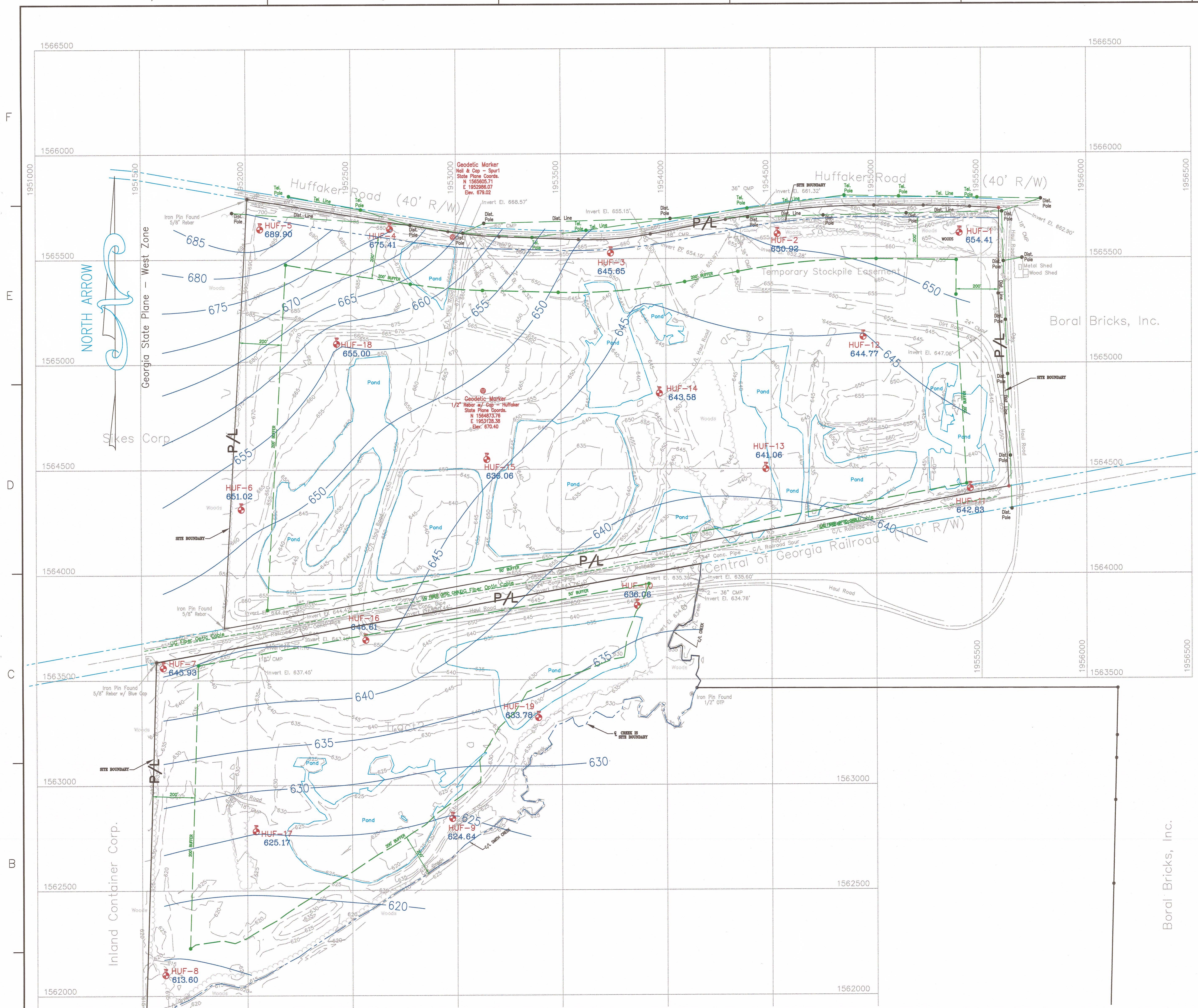


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GEORGIA POWER COMPANY		PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY	
GROUNDWATER POTENTIOMETRIC SURFACE SEPTEMBER 17, 2003		SCALE: 1" = 200'	
PROJ. ID.	DRAWING NUMBER	SH.	CONTO.
	H9163	1	FINAL
REV.			2

REVISION 2	DATE 05/15/2013	ISSUED FOR MINOR MODIFICATION
REVISION 1	DATE 09/15/2005	RE-ISSUED FOR PERMIT
REVISION 0	DATE 9/01/2004	ISSUED FOR PERMIT
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BY: AMH	CHK'D: THH	CIVIL APPR: JDP
BY: ASF	CHK'D: JCR	CIVIL APPR: JDM
BY: ASF	CHK'D: RDA	CIVIL APPR: HP



UTILITY LEGEND

- ⊕ Electric Manhole
- ⊕ Electric Meter
- ⊕ Gas Manhole
- ⊕ Gas Valve
- ⊕ Gas Meter
- ⊕ Sanitary Sewer Manhole
- ⊕ Sanitary Sewer Cleanout
- ⊕ Storm Sewer Manhole
- ⊕ Telephone Manhole
- ⊕ Water Manhole
- ⊕ Water Valve
- ⊕ Water Meter
- ⊕ Fire Hydrant
- ⊕ Well
- ⊕ Power Pole
- ⊕ Transmission Tower
- ⊕ Guy Wire

PLAT ABBREVIATIONS

- IPF - Iron Pin Found
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- OTF - Open Top Pipe
- CTP - Clamp Top Pipe
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- Alumn. - Aluminum
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- R/W - Right of Way
- C/L - Centerline
- F/L - Fence Line
- T/L - Transmission Line
- N/F - Now or Formerly
- DB - Deed Book
- P/B - Plat Book
- MF - Map File No.

MONUMENTATION LEGEND

- ⊕ Iron Pin Set
- ⊕ Iron Pin Found
- ⊕ Monument Set
- ⊕ Monument Found

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program

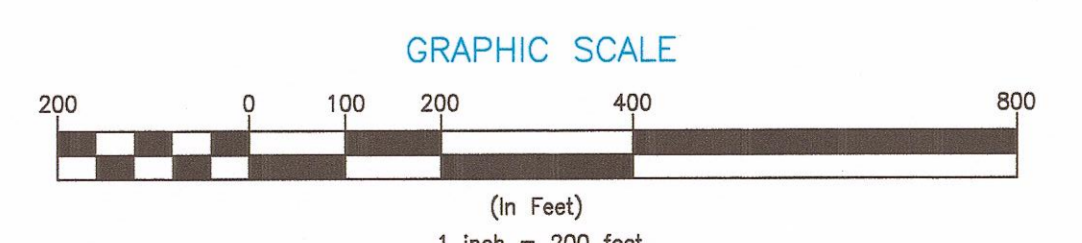
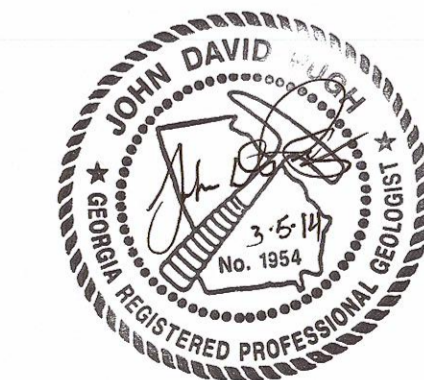
MINOR MODIFICATION APPROVAL

SOLID WASTE PERMIT NO. **057.022D(15)**

APPROVED BY: *[Signature]* DATE: **4/15/2014**

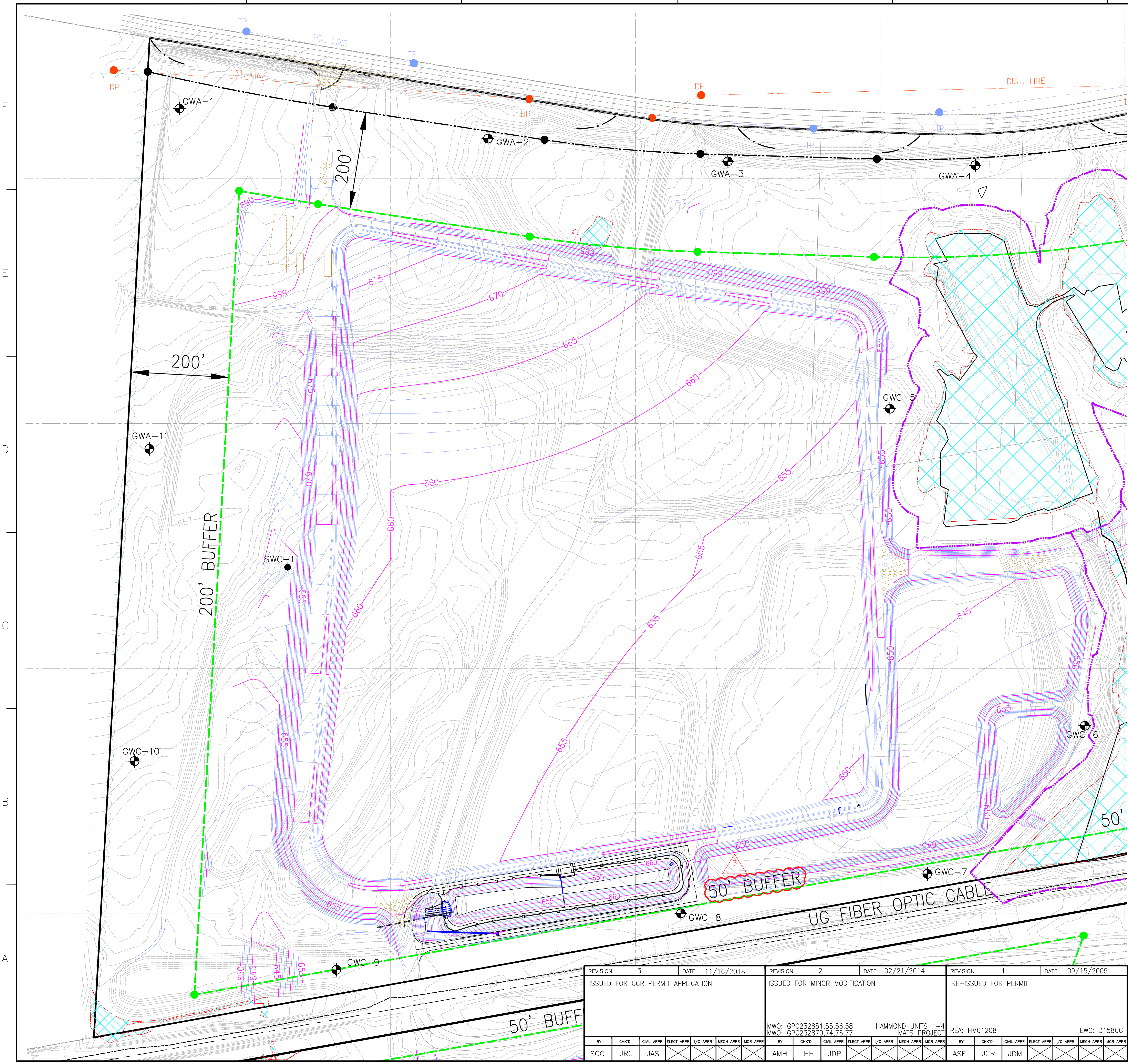
- Notes:
- 1) For property information, see GPC Land Dept. Map File No. H-628-10.
 - 2) All Horizontal control shown is Georgia State Plane - West Zone NAD83/94.
 - 3) All Vertical control shown is NAVD88.
 - 4) For location of access easements see Georgia Power Land Department Map drawing H-628-10.
 - 5) For general plan legend see drawing H9165.

References:
 For a complete drawing list see H-9130



REV. 2 OF THIS DRAWING WAS SEALED BY
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 PROFESSIONAL GEOLOGIST NO. 1954

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REVISION 2 DATE 05/15/2013				REVISION 1 DATE 09/15/2005				REVISION 0 DATE 9/01/2004			
ISSUED FOR MINOR MODIFICATION				RE-ISSUED FOR PERMIT				ISSUED FOR PERMIT			
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MWO: GPC232870.74,76,77 MATS PROJECT				BY: AMH CHK'D: THH CIVIL APPR: JDP				BY: ASF CHK'D: RDA CIVIL APPR: HP			
SCALE: 1" = 200'				PROJ. ID.:				DRAWING NUMBER: H9164			
SH: 1				CON'TD: FINAL				REV: 2			



- LEGEND:**
- GWA-12 UPGRADIENT MONITORING WELL
 - GWA-14 DOWNGRADIENT MONITORING WELL
 - SWC-1 SAMPLE LOCATION
 - PROPERTY LINE
 - SITE BOUNDARY
 - 200' BUFFER
 - 50' WETLAND BUFFER
 - EXIST. GROUND CONTOURS
 - FINISH GRADING CONTOURS
 - FINAL STACKING CONTOURS
 - DISTRIBUTION POST (ELECTRICAL)
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY

MONITORING WELL LOCATION TABLE

INSTRUMENT	NORTHING	EASTING	ELEVATION (FEET)
GWA-1	1,565,643.23	1,952,068.06	698.21
GWA-2	1,565,589.74	1,952,641.00	678.80
GWA-3	1,565,519.19	1,953,199.71	656.00
GWA-4	1,565,518.65	1,953,686.93	653.80
GWA-5	1,565,158.40	1,953,566.09	646.35
GWC-6	1,564,396.99	1,953,919.43	653.56
GWC-7	1,564,078.74	1,953,595.62	653.92
GWC-8	1,564,000.11	1,953,095.59	653.68
GWC-9	1,563,875.99	1,952,393.22	656.66
GWA-10	1,564,307.60	1,951,975.60	663.71
GWA-11	1,564,945.85	1,952,008.14	679.38

- NOTES:**
- FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10.
- REFERENCES**
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 - SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.



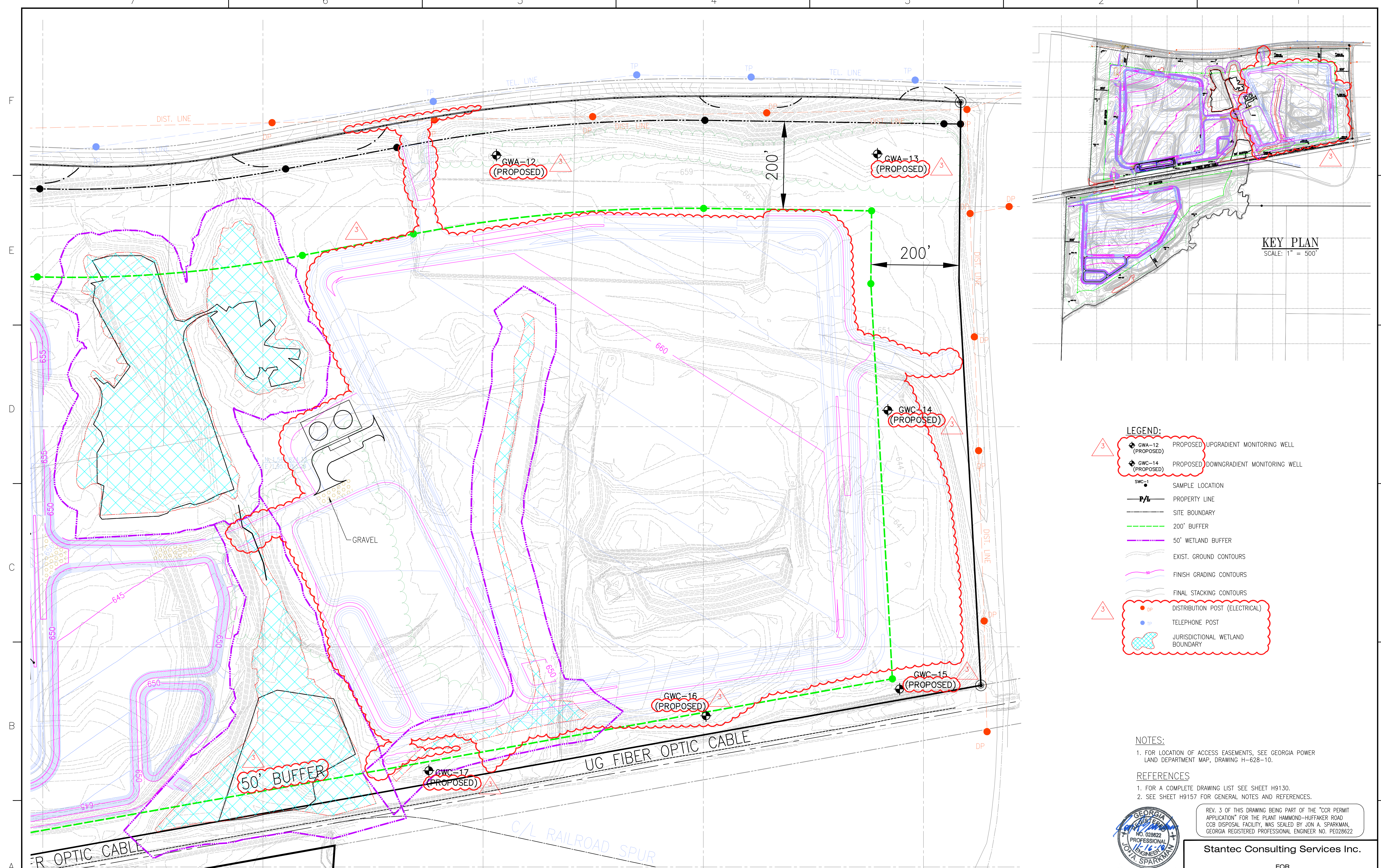
REV. 3 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD COAL DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622

Stantec Consulting Services Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS A AND B
COMPLIANCE MONITORING NETWORK

REVISION	DATE	DESCRIPTION	BY	CHK'D	CIVL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR
3	11/16/2018	ISSUED FOR CCR PERMIT APPLICATION	SCC	JRC	JAS				
2	02/21/2014	ISSUED FOR MINOR MODIFICATION	AMH	THH	JDP				
1	09/15/2005	RE-ISSUED FOR PERMIT	ASF	JCR	JDM				
0	09/01/04	ISSUED FOR PERMIT	ASF	RDA	HP				

MWO: GPC232851,55,56,58
MWO: GPC232870,74,76,77
HAMMOND UNITS 1-4 MATS PROJECT
REA: HM01208
EWO: 3158CG
REA: HM01208
EWO: 3158CG

SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONT'D	REV
1" = 80'	10201	H9165	1	FINAL	3



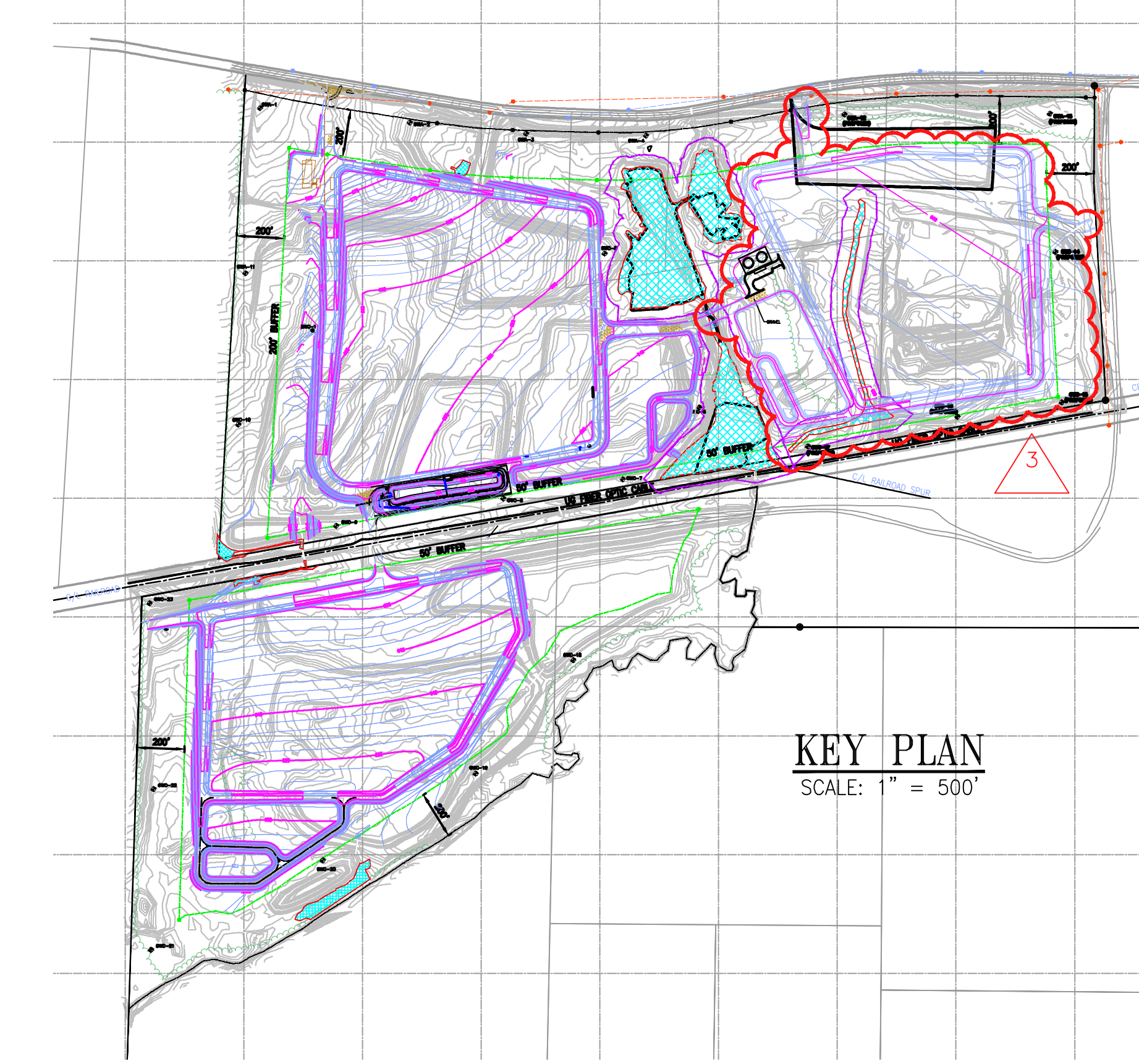
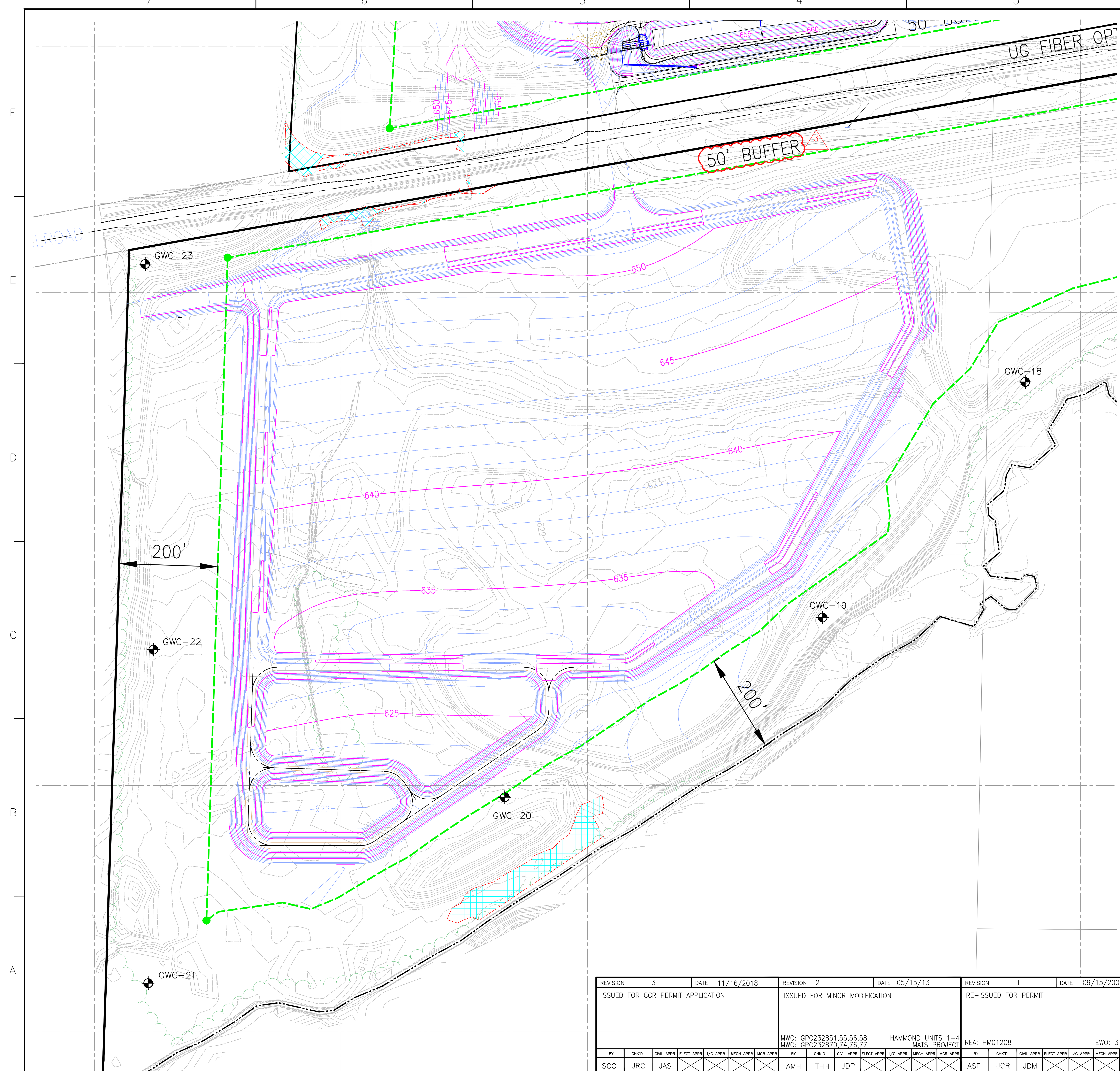
- LEGEND:**
- GWA-12 (PROPOSED) PROPOSED UPGRADIENT MONITORING WELL
 - GWC-14 (PROPOSED) PROPOSED DOWNGRADIENT MONITORING WELL
 - SWC-1 SAMPLE LOCATION
 - P/L PROPERTY LINE
 - SITE BOUNDARY
 - 200' BUFFER
 - 50' WETLAND BUFFER
 - EXIST. GROUND CONTOURS
 - FINISH GRADING CONTOURS
 - FINAL STACKING CONTOURS
 - DP DISTRIBUTION POST (ELECTRICAL)
 - TP TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY

- NOTES:**
- FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10.
- REFERENCES**
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 - SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.



Stantec Consulting Services Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 PARCELS C AND D
 COMPLIANCE MONITORING NETWORK

REVISION	3	2	1	0																							
DATE	11/16/2018	05/15/13	09/15/2005	09/01/04																							
ISSUED FOR CCR PERMIT APPLICATION	ISSUED FOR MINOR MODIFICATION	RE-ISSUED FOR PERMIT	ISSUED FOR PERMIT																								
MWO: GPC232851,55,56,58 MWO: GPC232870,74,76,77		HAMMOND UNITS 1-4 MATS PROJECT	REA: HM01208	EWO: 3158CG REA: HM01208 EWO: 3158CG																							
BY: SCC	CHK'D: JRC	CIVIL APPR: JAS	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: [X]	BY: AMH	CHK'D: THH	CIVIL APPR: JDP	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: [X]	BY: ASF	CHK'D: JCR	CIVIL APPR: JDM	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: [X]	BY: ASF	CHK'D: RDA	CIVIL APPR: HP	ELECT APPR: [X]	I/C APPR: [X]	MECH APPR: [X]	MGR APPR: [X]



- LEGEND:**
- 50' BUFFER
 - GWC-14 DOWNGRADIENT MONITORING WELL
 - SWC-1 SAMPLE LOCATION
 - P/L PROPERTY LINE
 - SITE BOUNDARY
 - 200' BUFFER
 - 50' WETLAND BUFFER
 - EXIST. GROUND CONTOURS
 - FINISH GRADING CONTOURS
 - FINAL STACKING CONTOURS
 - DP DISTRIBUTION POST (ELECTRICAL)
 - TP TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY

MONITORING WELL LOCATION TABLE

INSTRUMENT	NORTHING	EASTING	ELEVATION (FEET)
GWC-18	1,563,319.48	1,953,391.01	638.51
GWC-19	1,562,842.42	1,952,979.50	640.18
GWC-20	1,562,472.09	1,952,332.09	622.80
GWC-21	1,562,098.80	1,951,612.93	614.04
GWC-22	1,562,778.11	1,951,618.87	621.60
GWC-23	1,563,557.96	1,951,605.45	651.86

- NOTES:**
- FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER AND DEPARTMENT MAP DRAWING H-628-10.
 - SEE DRAWING H9165 FOR UPGRADIENT MONITORING WELLS.

- REFERENCES**
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.
 - SEE SHEET H9157 FOR GENERAL NOTES AND REFERENCES.



REV. 3 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622

Stantec Consulting Services Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 PARCEL E
 COMPLIANCE MONITORING NETWORK

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
3	11/16/2018	2	05/15/13	1	09/15/2005	0	09/01/04
ISSUED FOR CCR PERMIT APPLICATION		ISSUED FOR MINOR MODIFICATION		RE-ISSUED FOR PERMIT		ISSUED FOR PERMIT	
BY: SCC		BY: AMH		BY: ASF		BY: ASF	
CHK'D: JRC		CHK'D: THH		CHK'D: JCR		CHK'D: RDA	
CIVIL APPR: JAS		CIVIL APPR: THH		CIVIL APPR: JCR		CIVIL APPR: HP	
ELECT APPR: [X]		ELECT APPR: [X]		ELECT APPR: [X]		ELECT APPR: [X]	
I/C APPR: [X]		I/C APPR: [X]		I/C APPR: [X]		I/C APPR: [X]	
MECH APPR: [X]		MECH APPR: [X]		MECH APPR: [X]		MECH APPR: [X]	
MGR APPR: [X]		MGR APPR: [X]		MGR APPR: [X]		MGR APPR: [X]	
MWO: GPC232851,55,56,58		MWO: GPC232870,74,76,77		RE: HMO1208		EWO: 3158CG	
HAMMOND UNITS 1-4		MATS PROJECT		EWO: 3158CG		RE: HMO1208	
BY: [X]		BY: [X]		BY: [X]		BY: [X]	
CHK'D: [X]		CHK'D: [X]		CHK'D: [X]		CHK'D: [X]	
CIVIL APPR: [X]		CIVIL APPR: [X]		CIVIL APPR: [X]		CIVIL APPR: [X]	
ELECT APPR: [X]		ELECT APPR: [X]		ELECT APPR: [X]		ELECT APPR: [X]	
I/C APPR: [X]		I/C APPR: [X]		I/C APPR: [X]		I/C APPR: [X]	
MECH APPR: [X]		MECH APPR: [X]		MECH APPR: [X]		MECH APPR: [X]	
MGR APPR: [X]		MGR APPR: [X]		MGR APPR: [X]		MGR APPR: [X]	
SCALE: 1" = 80'		PROJ. I.D.: 10201		DRAWING NUMBER: H9167		SH: 1	
						CONTD: 3	
						REV: FINAL	

SITE BOUNDARY LEGAL DESCRIPTION

PARCEL 1

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 79, 80, 101 AND 102, OF THE 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE TRUE POINT OF BEGINNING, BEGIN AT A 3/8" REBAR FOUND AT THE CORNER COMMON TO LAND LOTS 80, 81, 100 AND 101, SAID DISTRICT, SECTION AND COUNTY (SAID CORNER HAVING STATE PLANE COORDINATES [NAD83(94) WEST ZONE] OF NORTH 1,563,453.54 FEET AND EAST 1,956,146.34 FEET); THENCE RUN NORTH 89 DEGREES 51 MINUTES 30 SECONDS WEST A DISTANCE OF 1803.96 FEET TO 1/2" REBAR WITH YELLOW GPC CAP SET (SAID REBAR HAVING STATE PLANE COORDINATES OF NORTH 1,563,457.85 FEET AND EAST 1,954,342.38 FEET); THENCE RUN NORTH 89 DEGREES 51 MINUTES 30 SECONDS WEST A DISTANCE OF 200.00 FEET TO A POINT IN THE CENTERLINE OF SMITH CREEK (SAID POINT HAVING STATE PLANE COORDINATES OF NORTH 1,563,458.50 FEET AND EAST 1,954,142.38 FEET), WHICH POINT IS THE TRUE POINT OF BEGINNING. FROM THE TRUE POINT OF BEGINNING AS THUS ESTABLISHED, THENCE RUNNING GENERALLY NORTHERLY ALONG SAID CENTERLINE OF SMITH CREEK AND FOLLOWING THE MEANDERINGS THEREOF A DISTANCE OF 867.29 FEET, MORE OR LESS, TO AN IRON PIN FOUND (SAID IRON PIN FOUND HAVING STATE PLANE COORDINATES OF NORTH 1,564,048.61 AND EAST 1,954,162.91 FEET AND BEING LOCATED NORTH 01 DEGREES 59 MINUTES 34 SECONDS EAST A DISTANCE OF 590.47 FEET FROM THE TRUE POINT OF BEGINNING); THENCE RUNNING SOUTH 79 DEGREES 53 MINUTES 25 SECONDS WEST A DISTANCE OF 2,633.18 FEET TO A 3/8" REBAR WITH BLUE CAP FOUND (SAID REBAR HAVING STATE PLANE COORDINATES OF NORTH 1,563,586.40 FEET AND EAST 1,951,570.62 FEET); THENCE RUNNING SOUTH 01 DEGREES 50 MINUTES 01 SECONDS WEST ALONG THE BOUNDARY OF PROPERTY NOW OR FORMERLY OWNED BY INLAND CONTAINER CORP. A DISTANCE OF 1,737.88 FEET TO A POINT LOCATED IN THE CENTERLINE OF SMITH CREEK; THENCE RUNNING GENERALLY NORTHEASTERLY ALONG THE CENTERLINE OF SMITH CREEK AND FOLLOWING THE MEANDERINGS THEREOF A DISTANCE OF 4022.49 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING; SAID TRACT BEING DESIGNATED DISPOSAL SITE BOUNDARY SOUTH PARCEL, ALL AS SHOWN ON DRAWING H9131 DATED SEPTEMBER 27, 2004, LAST REVISED SEPTEMBER 15, 2005, PREPARED BY SOUTHERN COMPANY SERVICES, INC. FOR GEORGIA POWER COMPANY.

PARCEL 2

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 79 AND 80, OF THE 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 1/2" REBAR WITH YELLOW GPC CAP SET (SAID REBAR HAVING STATE PLANE COORDINATES [NAD 83 (94) WEST ZONE] OF NORTH 1,564,412.31 FEET AND EAST 1,955,630.59 FEET); THENCE RUNNING NORTH 03 DEGREES 07 MINUTES 10 SECONDS WEST A DISTANCE OF 918.35 FEET TO AN IRON PIN FOUND (SAID IRON PIN FOUND HAVING STATE PLANE COORDINATES OF NORTH 1,565,329.30 FEET AND EAST 1,955,580.61 FEET); THENCE RUNNING NORTH 00 DEGREES 43 MINUTES 12 SECONDS EAST A DISTANCE OF 358.18 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,687.47 FEET AND EAST 1,955,584.17 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE LEFT AN ARC DISTANCE OF 37.54 FEET (SAID CURVE HAVING A RADIUS OF 7,987 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 89 DEGREES 17 MINUTES 46 SECONDS WEST A CHORD DISTANCE OF 37.53 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,687.93 FEET AND EAST 1,955,546.64 FEET; THENCE RUNNING NORTH 89 DEGREES 09 MINUTES 42 SECONDS WEST A DISTANCE OF 543.06 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,695.87 FEET AND EAST 1,955,003.64 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE LEFT AN ARC DISTANCE OF 703.47 FEET (SAID CURVE HAVING A RADIUS OF 3,428 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING SOUTH 84 DEGREES 57 MINUTES 34 SECONDS WEST A CHORD DISTANCE OF 702.24 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,634.17 FEET AND EAST 1,954,304.12 FEET; THENCE RUNNING SOUTH 79 DEGREES 04 MINUTES 50 SECONDS WEST A DISTANCE OF 257.28 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,585.44 FEET AND EAST 1,954,051.52 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE RIGHT AN ARC DISTANCE OF 561.20 FEET (SAID CURVE HAVING A RADIUS OF 2,558 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING SOUTH 85 DEGREES 21 MINUTES 56 SECONDS WEST A CHORD DISTANCE OF 560.08 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,540.19 FEET AND EAST 1,953,493.27 FEET; THENCE RUNNING NORTH 88 DEGREES 20 MINUTES 57 SECONDS WEST A DISTANCE OF 360.74 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,550.58 FEET AND EAST 1,953,132.68 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE RIGHT AN ARC DISTANCE OF 320.01 FEET (SAID CURVE HAVING A RADIUS OF 2,595 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 84 DEGREES 48 MINUTES 59 SECONDS WEST A CHORD DISTANCE OF 319.81 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,579.48 FEET AND EAST 1,952,814.18 FEET; THENCE RUNNING NORTH 81 DEGREES 17 MINUTES 01 SECONDS WEST A DISTANCE OF 437.51 FEET TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,645.78 FEET AND EAST 1,952,381.72 FEET; THENCE RUNNING ALONG THE ARC OF A CURVE TO THE RIGHT AN ARC DISTANCE OF 384.93 FEET (SAID CURVE HAVING A RADIUS OF 5,075 FEET AND SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 79 DEGREES 06 MINUTES 39 SECONDS WEST A CHORD DISTANCE OF 384.83 FEET) TO A POINT HAVING STATE PLANE COORDINATES OF NORTH 1,565,718.48 FEET AND EAST 1,952,003.81 FEET; THENCE RUNNING SOUTH 03 DEGREES 11 MINUTES 43 SECONDS WEST ALONG THE BOUNDARY OF PROPERTY NOW OR FORMERLY OWNED BY SIKES CORP. A DISTANCE OF 1,975.53 FEET TO A 5/8" REBAR FOUND (SAID REBAR HAVING STATE PLANE COORDINATES OF NORTH 1,563,746.02 FEET AND EAST 1,951,893.70 FEET); THENCE RUNNING NORTH 79 DEGREES 53 MINUTES 25 SECONDS EAST A DISTANCE OF 3,795.82 FEET TO A 1/2" REBAR WITH YELLOW GPC CAP SET AND THE POINT OF BEGINNING; SAID TRACT BEING DESIGNATED DISPOSAL SITE BOUNDARY NORTH PARCEL, ALL AS SHOWN ON DRAWING H9131 DATED SEPTEMBER 27, 2004, LAST REVISED SEPTEMBER 15, 2005, PREPARED BY SOUTHERN COMPANY SERVICES, INC. FOR GEORGIA POWER COMPANY.

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program

MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-02220(LF)

 APPROVED BY: *R. J. J.* DATE: 11/5/2014

THE LEGAL DESCRIPTION OF SITE BOUNDARY CONTAINED ON THIS DRAWING IS AS PROVIDED BY TROUTMAN-SANDERS, LLP, 600 PEACHTREE STREET, SUITE 5200, ATLANTA, GEORGIA 30308, ATTN: A.C. BAXTER.

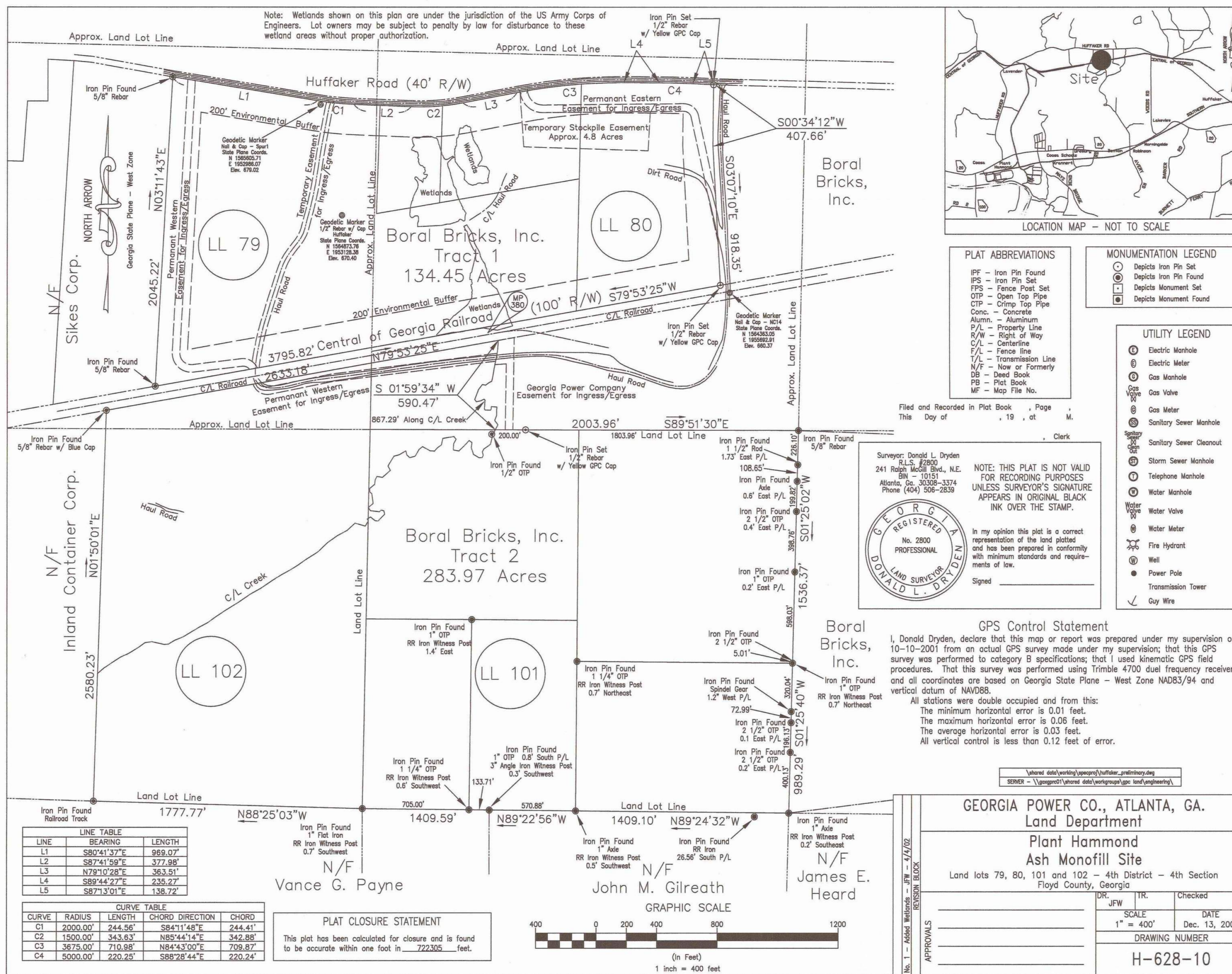


REV. 1 OF THIS DRAWING WAS SEALED BY GARY H. McWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 12687

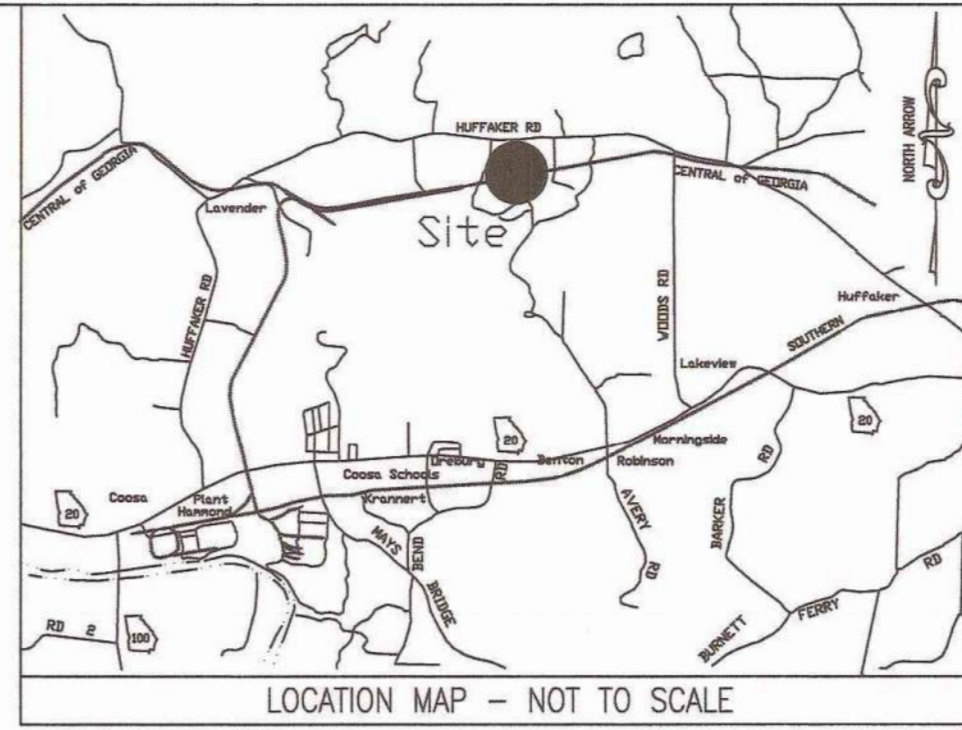
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Southern Company Services, Inc.
FOR

REVISION	DATE	REVISION	DATE							
1	05/15/2013	0	09/15/2005	GEORGIA POWER COMPANY PLANT HAMMOND – HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LEGAL DESCRIPTION OF SITE BOUNDARY						
ISSUED FOR MINOR MODIFICATION		ISSUED FOR PERMIT								
MWO: GPC232851,55,56,58 HAMMOND UNITS 1-4 MWO: GPC232870,74,76,77 MATS PROJECT		REA: HM01208 EWO: 3158CG								
BY	CHKD	CIVL APPR	ELECT APPR	MGR APPR	SCALE	PROJ. I.D.	DRAWING NUMBER	SH	CONT'D	REV
AMH	THH	JCP			NONE	10201	H9168	1	FINAL	1



Note: Wetlands shown on this plan are under the jurisdiction of the US Army Corps of Engineers. Lot owners may be subject to penalty by law for disturbance to these wetland areas without proper authorization.



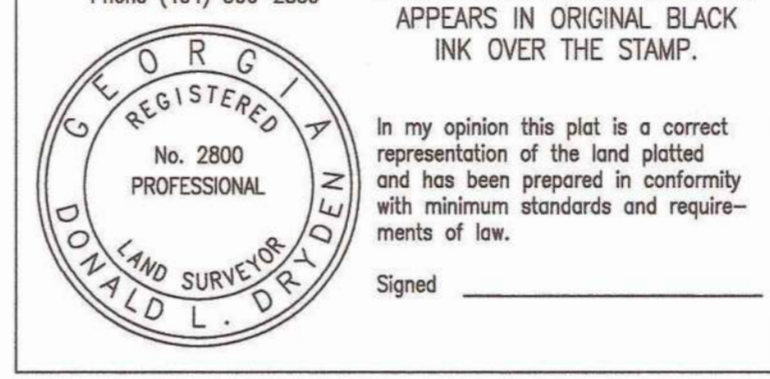
PLAT ABBREVIATIONS
IPF - Iron Pin Found
IFS - Iron Pin Set
FPS - Fence Post Set
OTF - Open Top Pipe
CTP - Crimp Top Pipe
Conc. - Concrete
Alum. - Aluminum
P/L - Property Line
R/W - Right of Way
C/L - Centerline
F/L - Fence line
T/L - Transmission Line
N/F - New or Formerly
DB - Dead Book
PB - Plat Book
MF - Map File No.

MONUMENTATION LEGEND
○ Depicts Iron Pin Set
● Depicts Iron Pin Found
□ Depicts Monument Set
■ Depicts Monument Found

UTILITY LEGEND
⊕ Electric Manhole
⊖ Electric Meter
⊕ Gas Manhole
⊖ Gas Meter
⊕ Gas Valve
⊖ Sanitary Sewer Manhole
⊕ Storm Sewer Manhole
⊖ Telephone Manhole
⊕ Water Manhole
⊖ Water Valve
⊕ Water Meter
⊖ Fire Hydrant
⊕ Well
⊖ Power Pole
⊕ Transmission Tower
⊖ Guy Wire

Filed and Recorded in Plat Book , Page . , at . M.
This Day of . , 19 . , at .
Clerk

Surveyor: Donald L. Dryden
R.L.S. #2800
241 North McGill Blvd., N.E.
Atlanta, Ga. 30308-3374
Phone (404) 508-2839



NOTE: THIS PLAT IS NOT VALID FOR RECORDING PURPOSES UNLESS SURVEYOR'S SIGNATURE APPEARS IN ORIGINAL BLACK INK OVER THE STAMP.
In my opinion this plat is a correct representation of the land plotted and has been prepared in conformity with minimum standards and requirements of law.
Signed _____

GPS Control Statement
I, Donald Dryden, declare that this map or report was prepared under my supervision on 10-10-2001 from an actual GPS survey made under my supervision; that this GPS survey was performed to category B specifications; that I used kinematic GPS field procedures. That this survey was performed using Trimble 4700 dual frequency receivers and all coordinates are based on Georgia State Plane - West Zone NAD83/94 and vertical datum of NAVD83.
All stations were double occupied and from this:
The minimum horizontal error is 0.01 feet.
The maximum horizontal error is 0.06 feet.
The average horizontal error is 0.03 feet.
All vertical control is less than 0.12 feet of error.

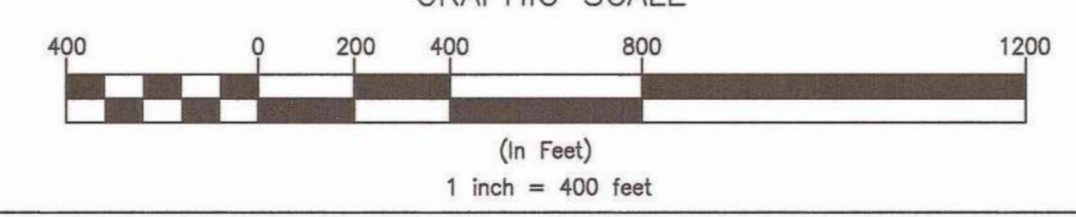
LINE TABLE

LINE	BEARING	LENGTH
L1	S80°41'37"E	859.07'
L2	S87°41'59"E	377.98'
L3	N79°10'28"E	363.91'
L4	S89°44'27"E	235.22'
L5	S87°13'01"E	138.72'

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C1	2000.00'	244.56'	S84°11'48"E	244.41'
C2	1500.00'	343.63'	N85°44'14"E	342.88'
C3	3675.00'	710.98'	N84°43'00"E	709.87'
C4	5000.00'	220.25'	S88°28'44"E	220.24'

PLAT CLOSURE STATEMENT
This plat has been calculated for closure and is found to be accurate within one foot in .722305 feet.

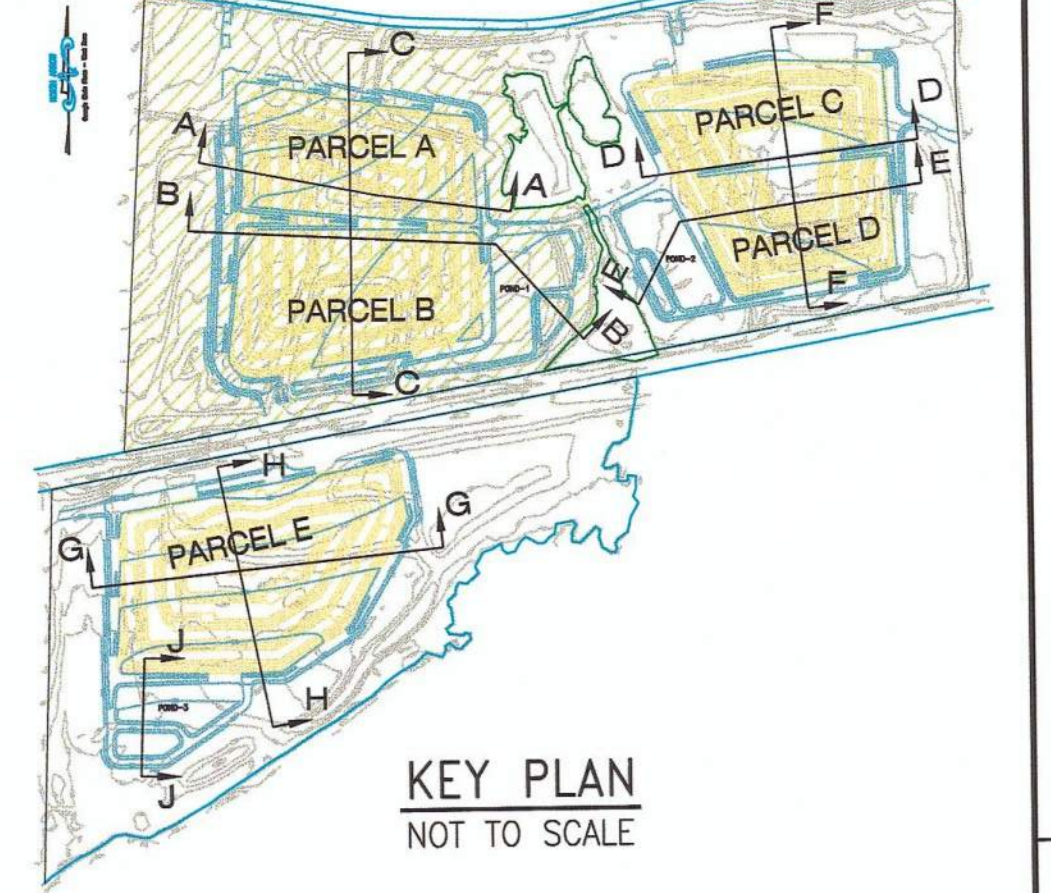
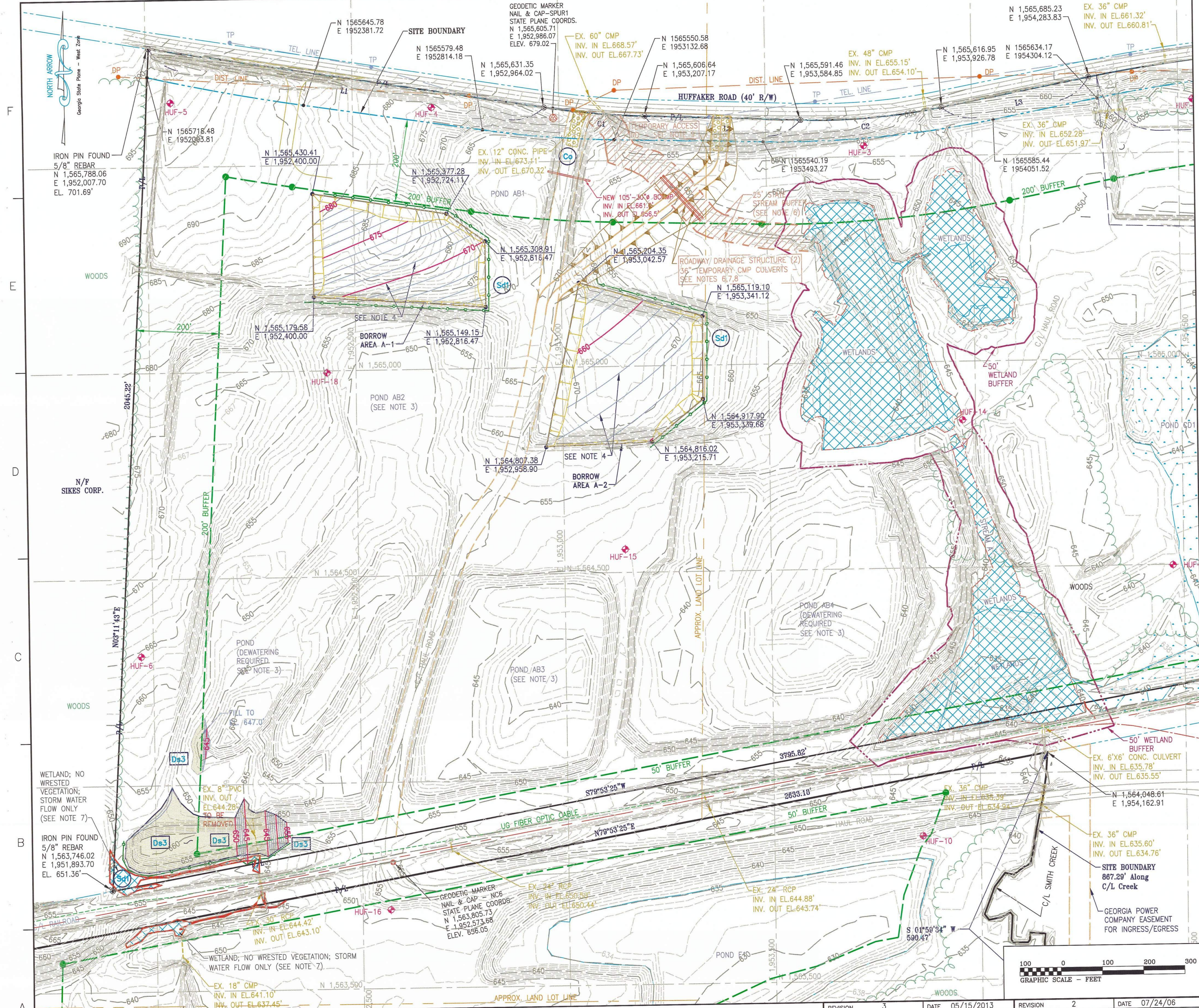


GEORGIA POWER CO., ATLANTA, GA.
Land Department
Plant Hammond
Ash Monofill Site
Land lots 79, 80, 101 and 102 - 4th District - 4th Section
Floyd County, Georgia

DWT: JFW, TR: []
SCALE: 1" = 400'
DATE: Dec. 13, 2001
DRAWING NUMBER: H-628-10



GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-022-2(L1)
APPROVED BY: R. Laji DATE: 11/5/2014



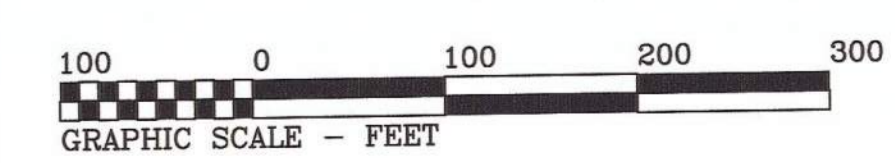
- LEGEND:**
- BORING/TEMPORARY PIEZOMETER LOCATION
 - PROPERTY LINE
 - DISPOSAL SITE BOUNDARY
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - EXIST GROUND CONTOURS
 - FINISH GRADING CONTOURS
 - GEODETIC MARKER
 - DISTRIBUTION POST
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - EARTH WORK (CUT/FILL) AREA

- EROSION CONTROL LEGEND:**
- CONSTRUCTION EXIT
 - CHECK DAM
 - SILT FENCE
 - AREA STABILIZATION (TEMPORARY VEGETATION) SEE NOTES 11 & 12 ON DWG. H9226
 - AREA STABILIZATION (PERMANENT VEGETATION) SEE NOTES 11 & 12 ON DWG. H9226

- NOTE:**
1. SEE DRAWING H9226 FOR GENERAL NOTES AND SCOPE OF LANDSCAPING WORK.
 2. FOR TYPICAL CULVERT OUTLET PROTECTION RIPRAP DETAIL, SEE DRAWING H9226.
 3. POND DEWATERING WILL BE REQUIRED OR WILL OCCUR AS A RESULT OF DEWATERING AN INTER-CONNECTED POND. SEE NOTES 6, 7 AND 13, DWG. H9226.
 4. PROPOSED CONTOURS SHOWN IN BORROW AREAS REPRESENT LOWEST PERMISSIBLE EXCAVATION ELEVATION. SIDES OF BORROW AREA SHALL SLOPE UP TO EXISTING GRADE NOT STEEPER THAN 3H:1V. TOP OF SLOPE TO REMAIN WITHIN BOUNDARY INDICATED BY COORDINATES.
 5. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10.
 6. NO WORK IS ALLOWED IN THE 25-FOOT STATE STREAM BUFFER (EXCEPT FOR CONSTRUCTION OF DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE) UNTIL A STATE STREAM BUFFER VARIANCE IS RECEIVED FROM THE GEORGIA EPD. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS.
 7. NO WORK IS ALLOWED IN WETLAND AREA UNTIL A SECTION 404 PERMIT IS RECEIVED FROM THE U.S. ARMY CORPS OF ENGINEERS. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS.
 8. TEMPORARY ACCESS ROAD FILL AND CULVERTS SHALL BE REMOVED AS SOON AS CONSTRUCTION SEQUENCE PERMITS. DISTURBED AREAS SHALL BE VEGETATED WITH PERMANENT GRASS SEEDING.

GEORGIA
 Environmental Protection Division
 Solid Waste Management Program
 MINOR MODIFICATION APPROVAL
 SOLID WASTE PERMIT NO. **057-022-P(11)**
 APPROVED BY: *E. Wojcik* DATE: **4/15/2014**

- REFERENCES**
- H9224 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCELS C AND D
 - H9225 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCEL E
 - H9226 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN GENERAL NOTES, SCOPE OF WORK, EROSION CONTROL SECTIONS & DETAILS
 - H9227 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN MISC. DETAILS AND EROSION CONTROL SECTIONS & DETAILS



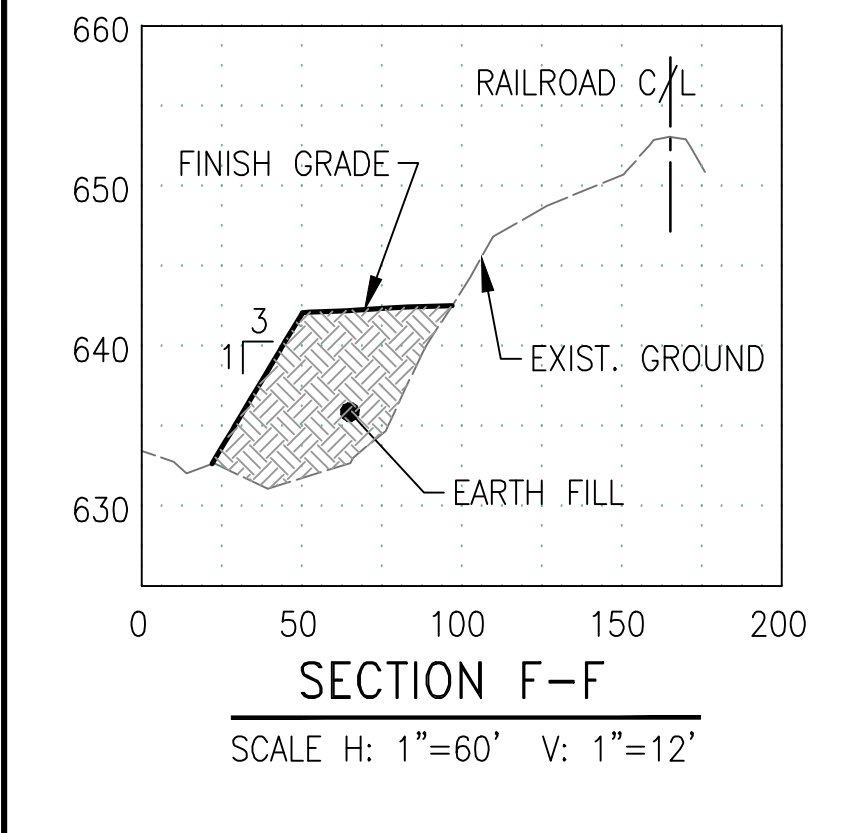
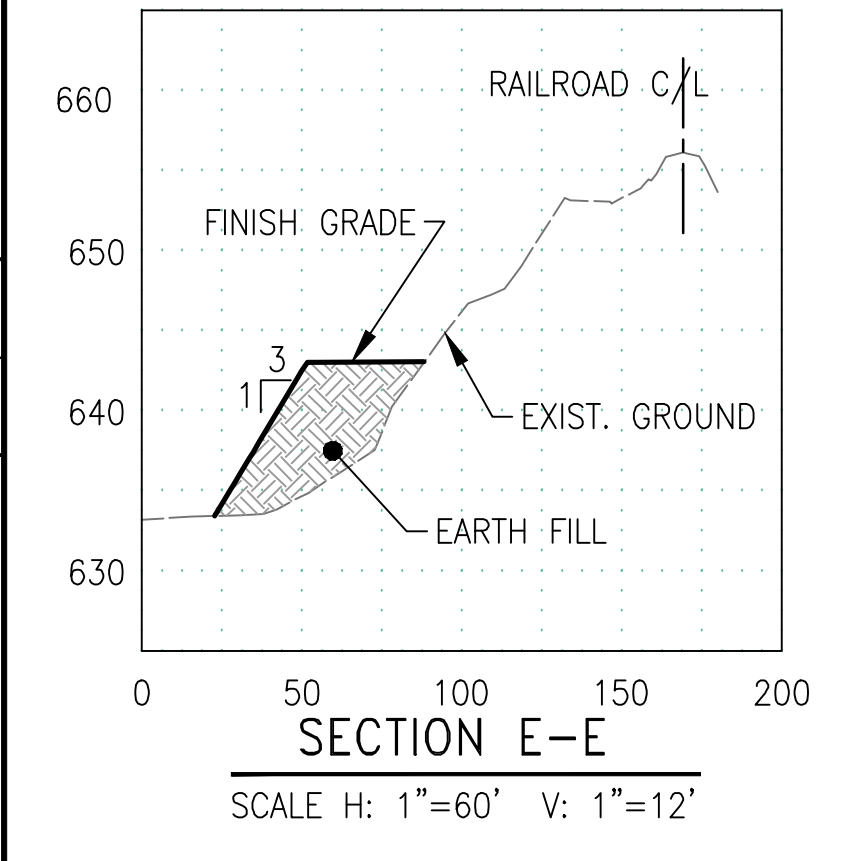
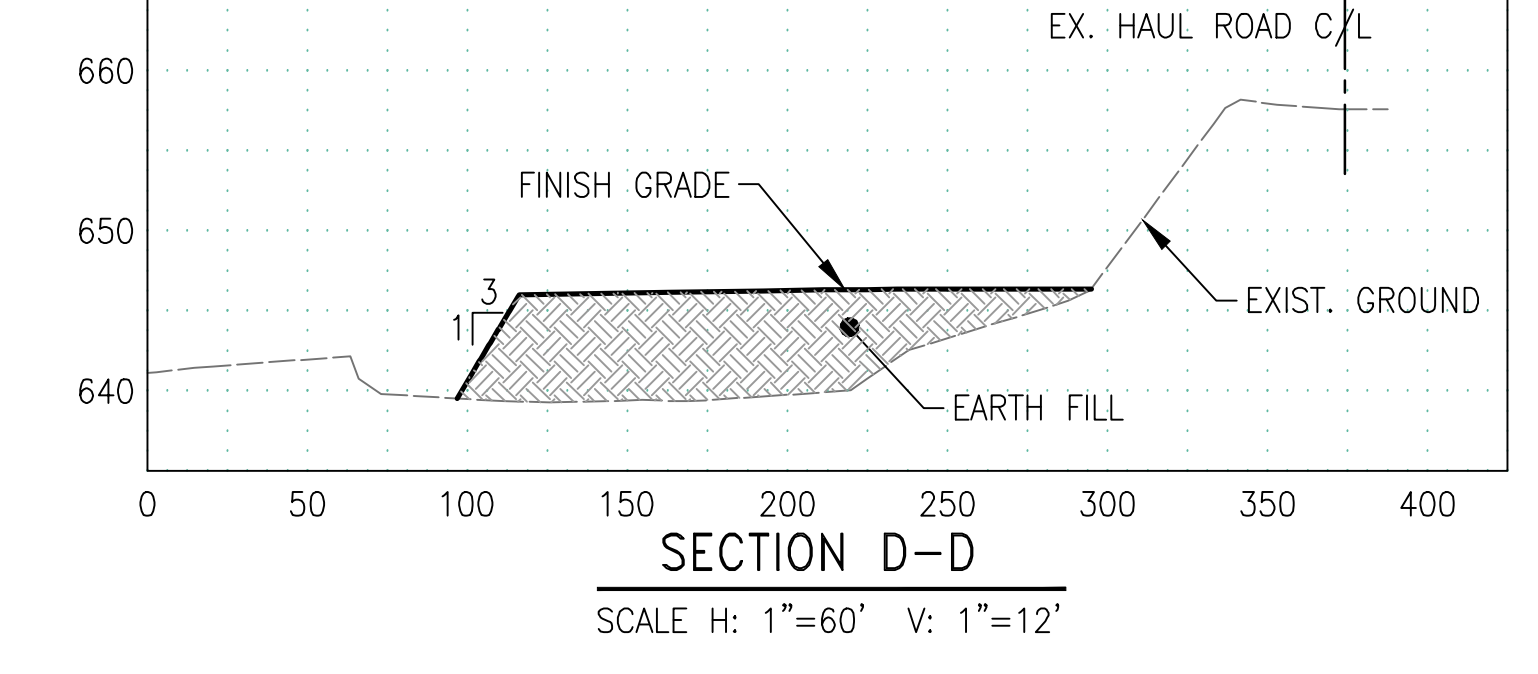
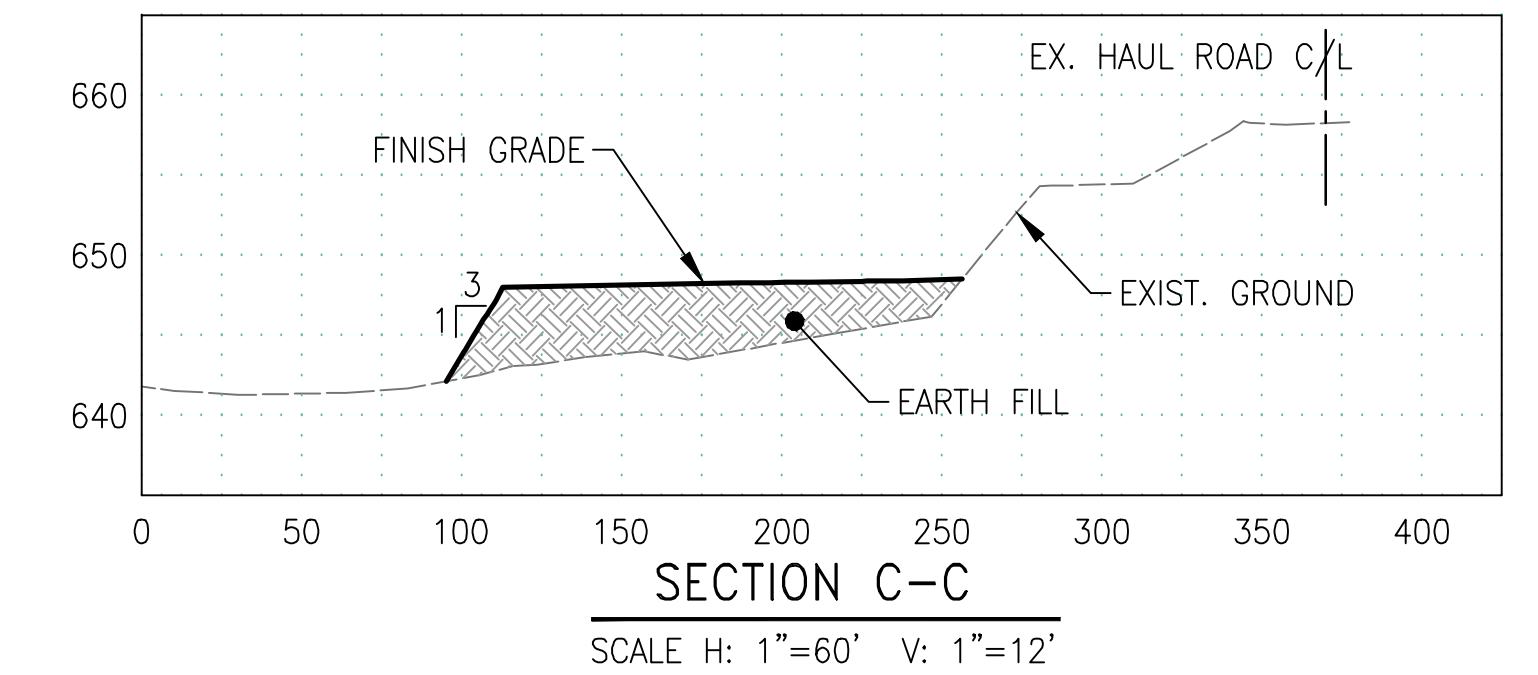
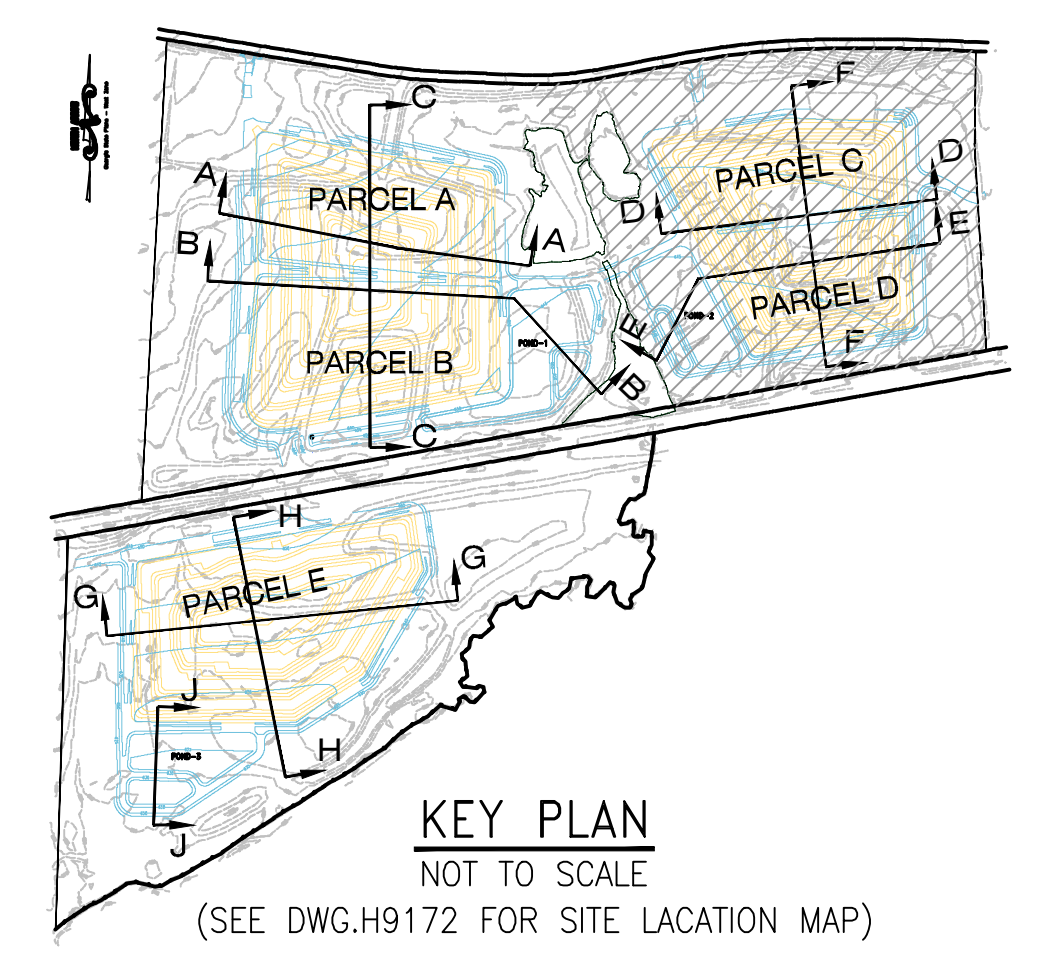
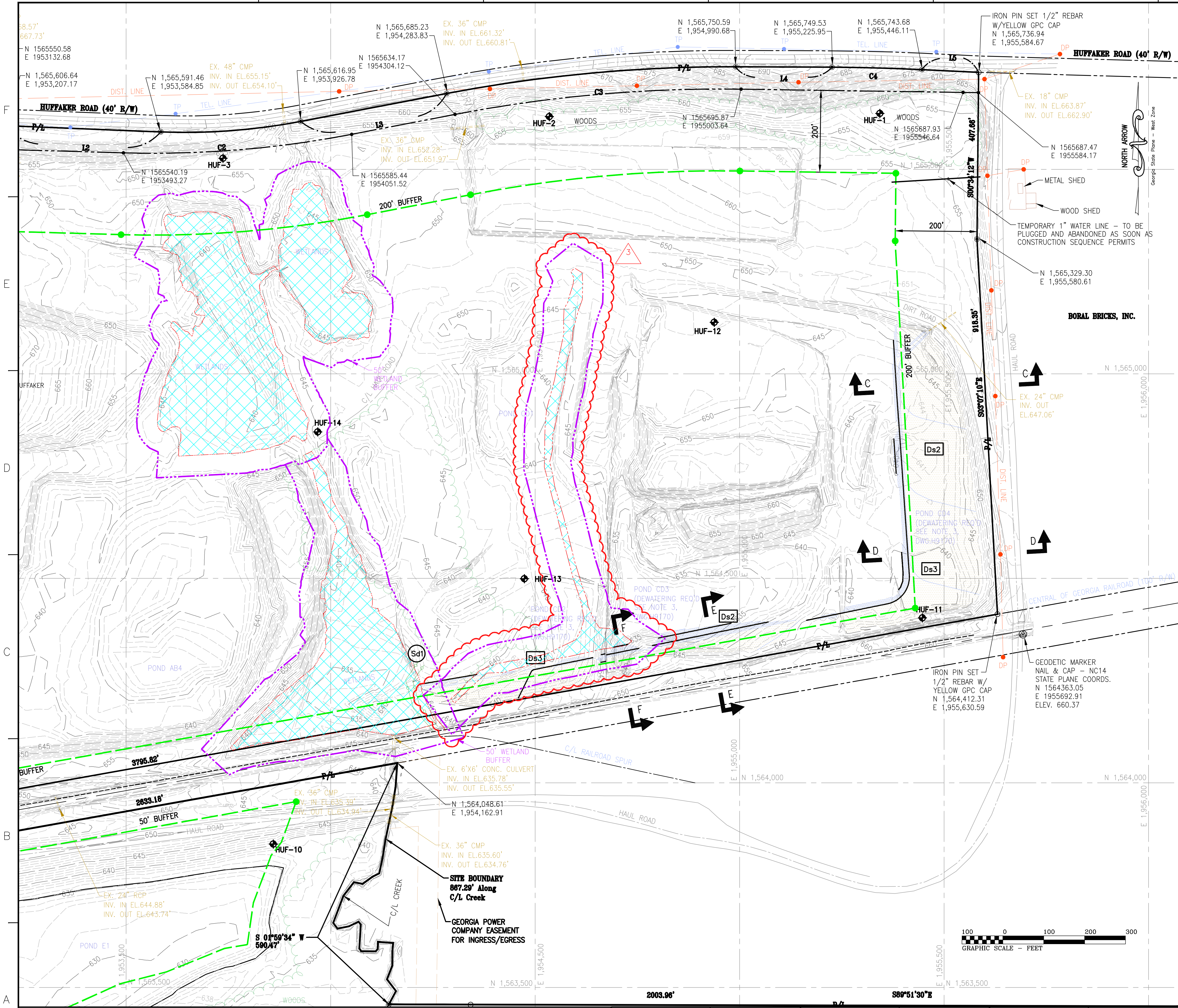
REV. 3 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

REVISION 3 DATE 05/15/2013 ISSUED FOR MINOR MODIFICATION		REVISION 2 DATE 07/24/06 ISSUED FOR MINOR PERMIT MODIFICATION a (E3) REMOVED TEMP POWER POLE & WTR LINE b (C1) DELETED NOTE 9		REVISION 1 DATE 07/07/06 ISSUED FOR MINOR PERMIT MODIFICATION a (F5) ADDED TEMP ROAD & STREAM CROSSING b (A6) ADDED WETLANDS DESIGNATION c (C1) ADDED NOTES 6 THRU 9. d (E3) ADDED TEMP POWER POLE & WATER LINE LOC'S.	
MWO: GPC232851,55,56,58 GPC232870,74,76,77 HAMMOND UNITS 1-4 MATS PROJECT		REA: HM01208 EWO: 3158CG		REA: HM01208 EWO: 3158CG	
BY: CRU	CHK'D: MHL	CIVL APPR: LHB	ELECT APPR: LHB	U/C APPR: LHB	MECH APPR: LHB
BY: JDM	CHK'D: GHM	CIVL APPR: ELM	ELECT APPR: ELM	U/C APPR: ELM	MECH APPR: ELM
SCALE: AS SHOWN			PROJ. I.D.: H9223		
SHEET: 1			CONT'D: FINAL		
DRAWING NUMBER: H9223			SHEET: 1 OF 3		

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Southern Company Services, Inc.
FOR

GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
LANDSCAPE PLAN
PARCELS A AND B



- LEGEND:**
- BORING/TEMPORARY PIEZOMETER LOCATION
 - PROPERTY LINE
 - DISPOSAL SITE BOUNDARY
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - EXIST. GROUND CONTOURS
 - FINISH GRADING CONTOURS
 - GEODETIC MARKER
 - DISTRIBUTION POST
 - TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - EARTH WORK (CUT/FILL) AREA

- EROSION CONTROL LEGEND:**
- CHECK DAM
 - SILT FENCE
 - AREA STABILIZATION (TEMPORARY VEGETATION) SEE NOTES 11 & 12 ON DWG. H9173
 - AREA STABILIZATION (PERMANENT VEGETATION) SEE NOTES 11 & 12 ON DWG. H9173

NOTES:
 1. SEE DRAWING H9173 FOR GENERAL NOTES AND SCOPE OF WORK.
 2. FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10.



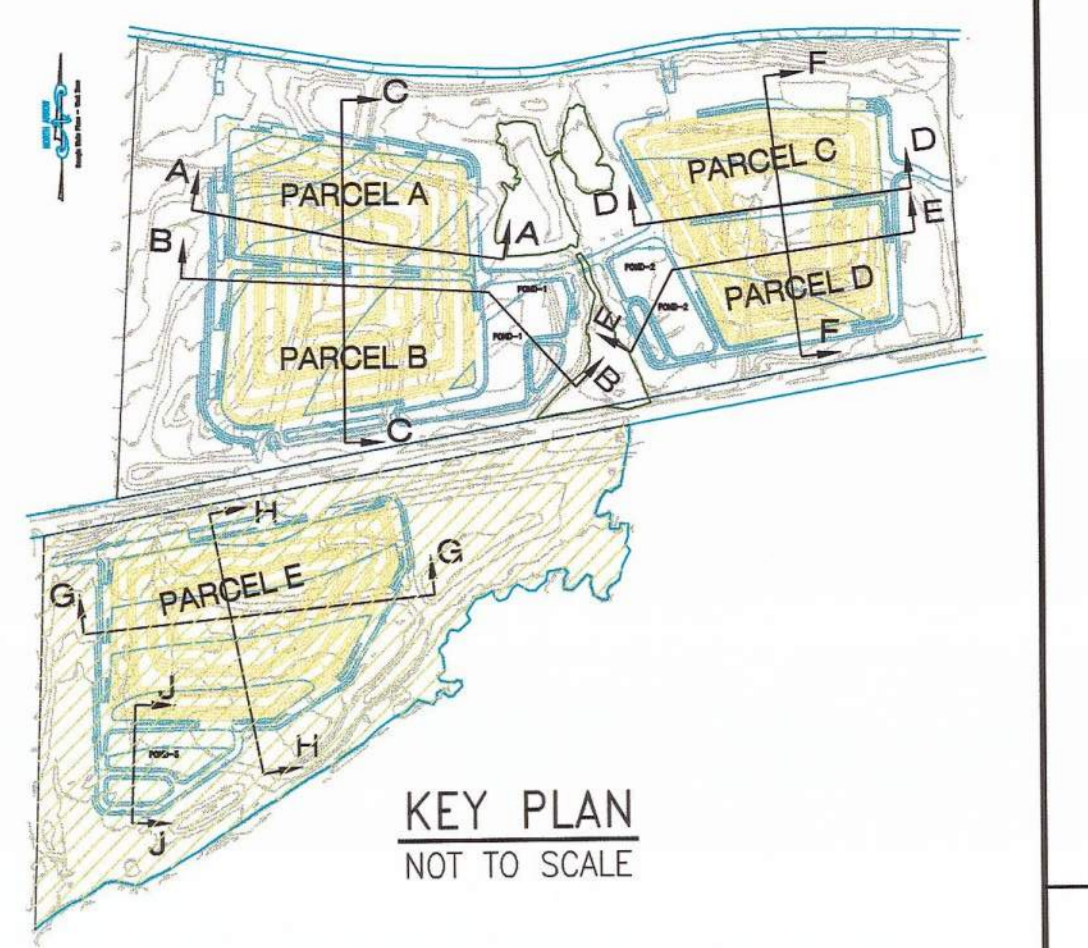
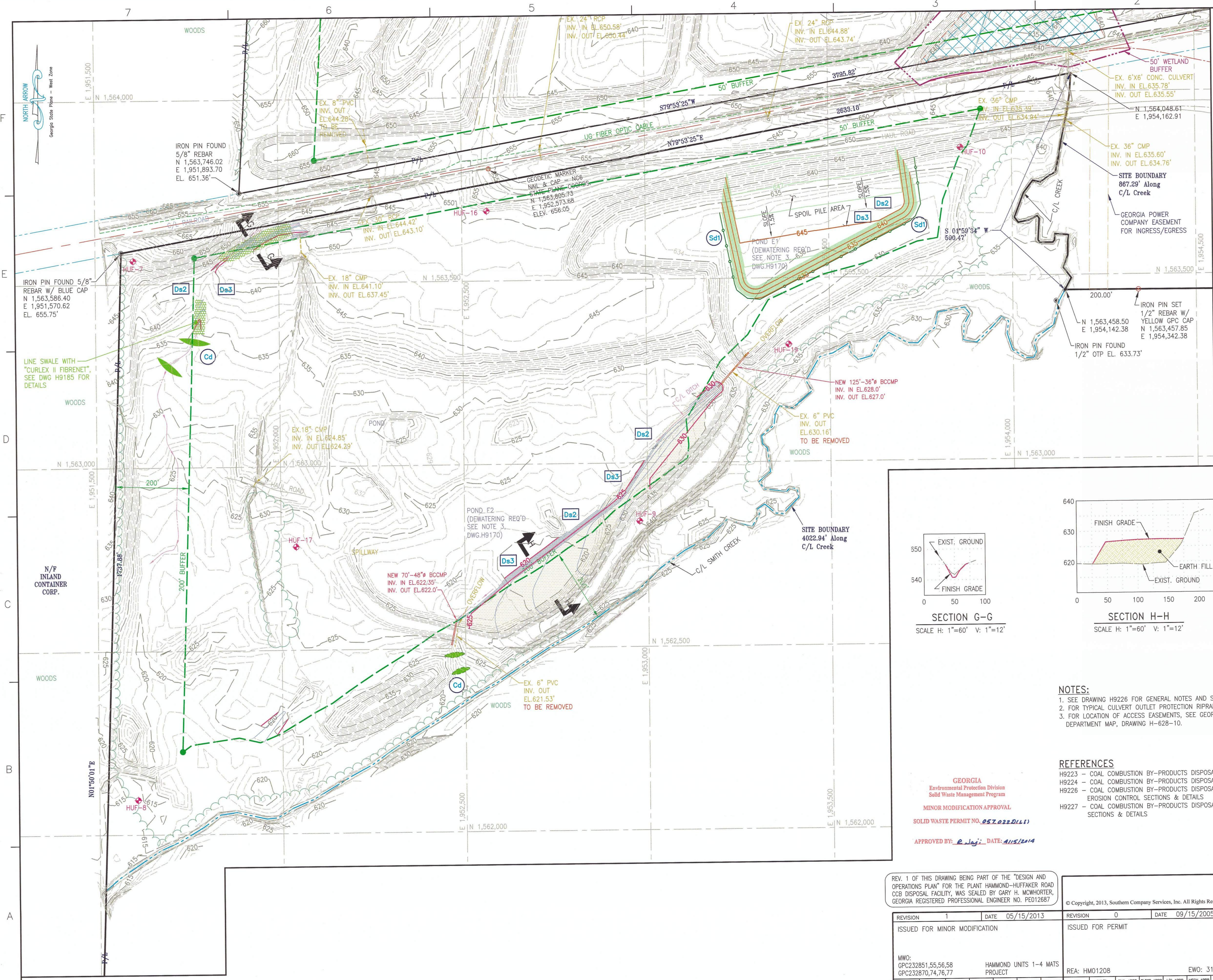
Stantec Consulting Services Inc.
 FOR
GEORGIA POWER COMPANY
 PLANT HAMMOND - HUFFAKER ROAD
 COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
 LANDSCAPE PLAN
 PARCELS C AND D

REFERENCES
 H9223 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCELS A AND B
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 H9227 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN MISC. DETAILS AND EROSION CONTROL SECTIONS & DETAILS

REV. 3 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622

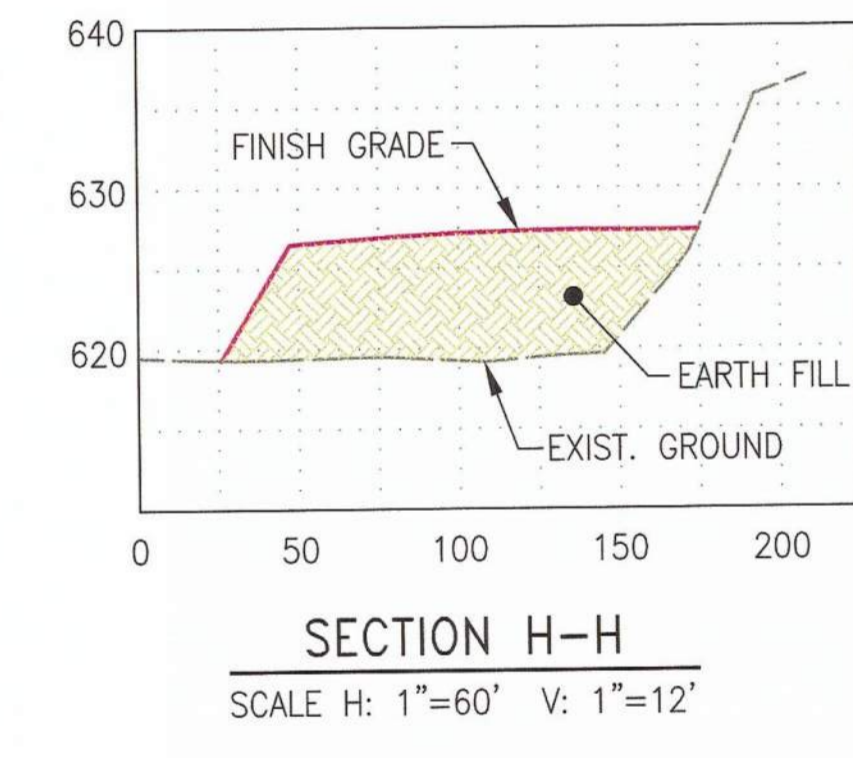
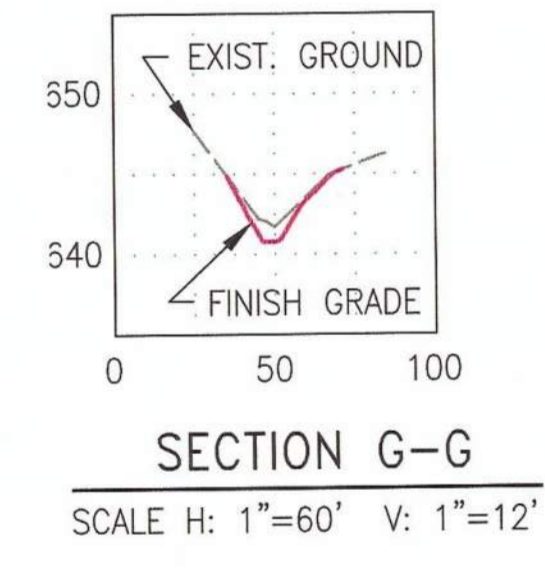
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DATE 11/16/2018	DATE 05/15/2013	DATE 07/24/2006	DATE 09/15/2005	
BY: SCC, CHK'D: JRC, CIVIL APPR: JAS, ELECT APPR: [X], I/C APPR: [X], MECH APPR: [X], MGR APPR: [X]	BY: CRU, CHK'D: MHL, CIVIL APPR: LHB, ELECT APPR: [X], I/C APPR: [X], MECH APPR: [X], MGR APPR: [X]	BY: JDM, CHK'D: GHM, CIVIL APPR: ELM, ELECT APPR: [X], I/C APPR: [X], MECH APPR: [X], MGR APPR: [X]	BY: JDM, CHK'D: GHM, CIVIL APPR: ELM, ELECT APPR: [X], I/C APPR: [X], MECH APPR: [X], MGR APPR: [X]	
PROJECT: GPC232851,55,56,58, GPC232870,74,76,77	PROJECT: HAMMOND UNITS 1-4 MATS PROJECT	PROJECT: REA: HMO1208	PROJECT: REA: HMO1208	
		PROJECT: EWO: 3158CG	PROJECT: EWO: 3158CG	

SCALE	PROJ. ID.	DRAWING NUMBER	SH.	CONT'D.	REV.
AS SHOWN		H9224	1	FINAL	3



- LEGEND:**
- BORING/TEMPORARY PIEZOMETER LOCATION
 - PROPERTY LINE
 - DISPOSAL SITE BOUNDARY
 - BUFFER LINE
 - 50' WETLAND BUFFER
 - EXIST GROUND CONTOURS
 - 50' FINISH GRADING CONTOURS
 - GEODETIC MARKER
 - DP DISTRIBUTION POST (ELECTRICAL)
 - TP TELEPHONE POST
 - JURISDICTIONAL WETLAND BOUNDARY
 - NON-JURISDICTIONAL WETLAND BOUNDARY
 - EARTH WORK (CUT/FILL) AREA
 - TURF REINFORCEMENT (CURLEX II FIBRENET)

- EROSION CONTROL LEGEND:**
- CHECK DAM
 - SILT FENCE
 - AREA STABILIZATION (TEMPORARY VEGETATION) SEE NOTES 11 & 12 ON DWG. H9173
 - AREA STABILIZATION (PERMANENT VEGETATION) SEE NOTES 11 & 12 ON DWG. H9173



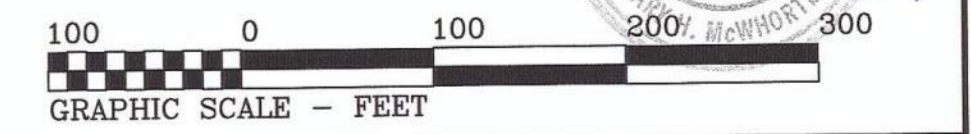
NOTES:

- SEE DRAWING H9226 FOR GENERAL NOTES AND SCOPE OF WORK.
- FOR TYPICAL CULVERT OUTLET PROTECTION RIPRAP DETAIL, SEE DWG.H9226.
- FOR LOCATION OF ACCESS EASEMENTS, SEE GEORGIA POWER LAND DEPARTMENT MAP, DRAWING H-628-10.

REFERENCES

- H9223 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCELS A AND B
- H9224 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCELS C AND D
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GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057.022D(L11)
APPROVED BY: *R. Jaji* DATE: 4/15/2014



REV. 1 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687

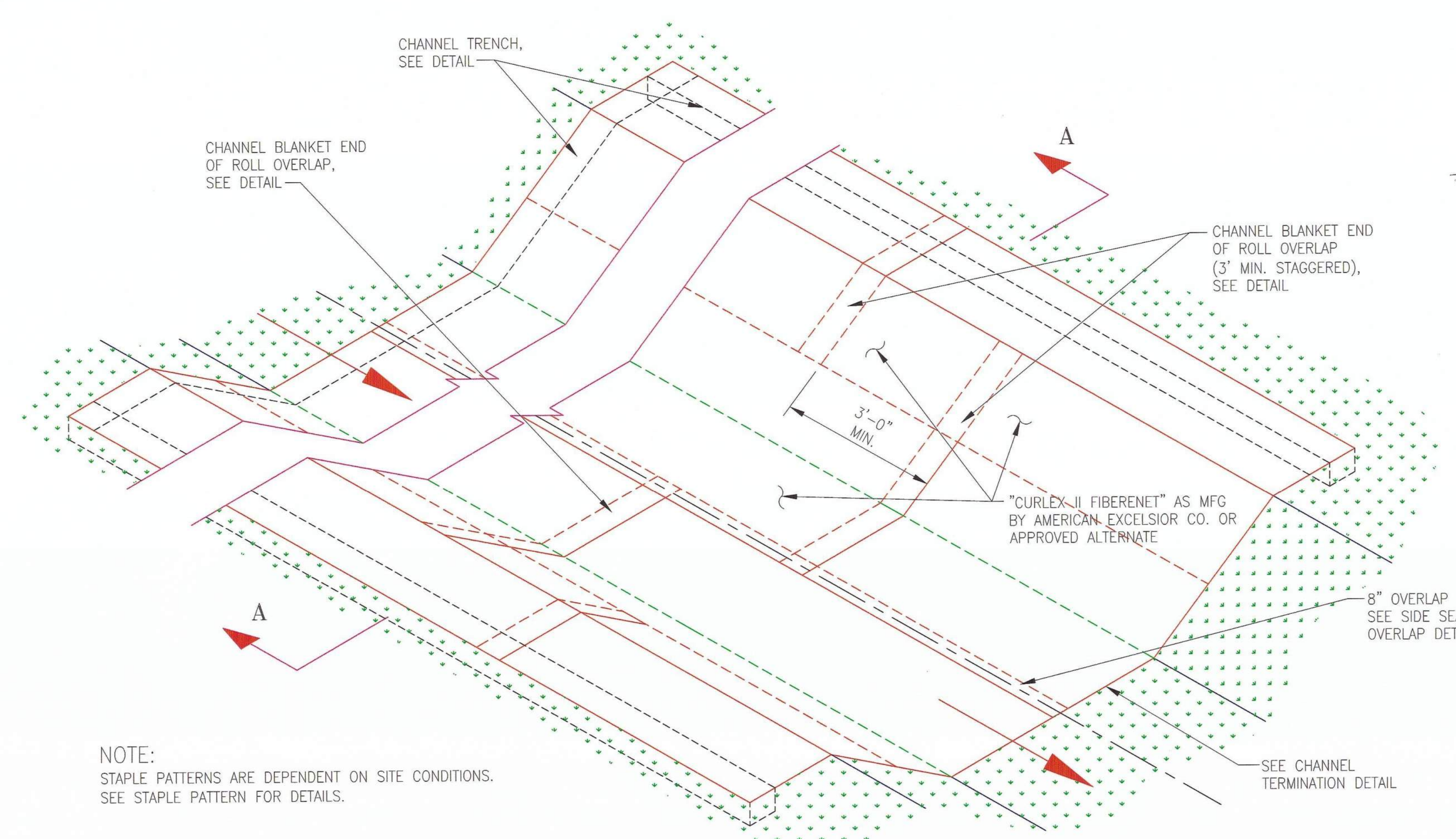
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Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
LANDSCAPE PLAN
PARCEL E

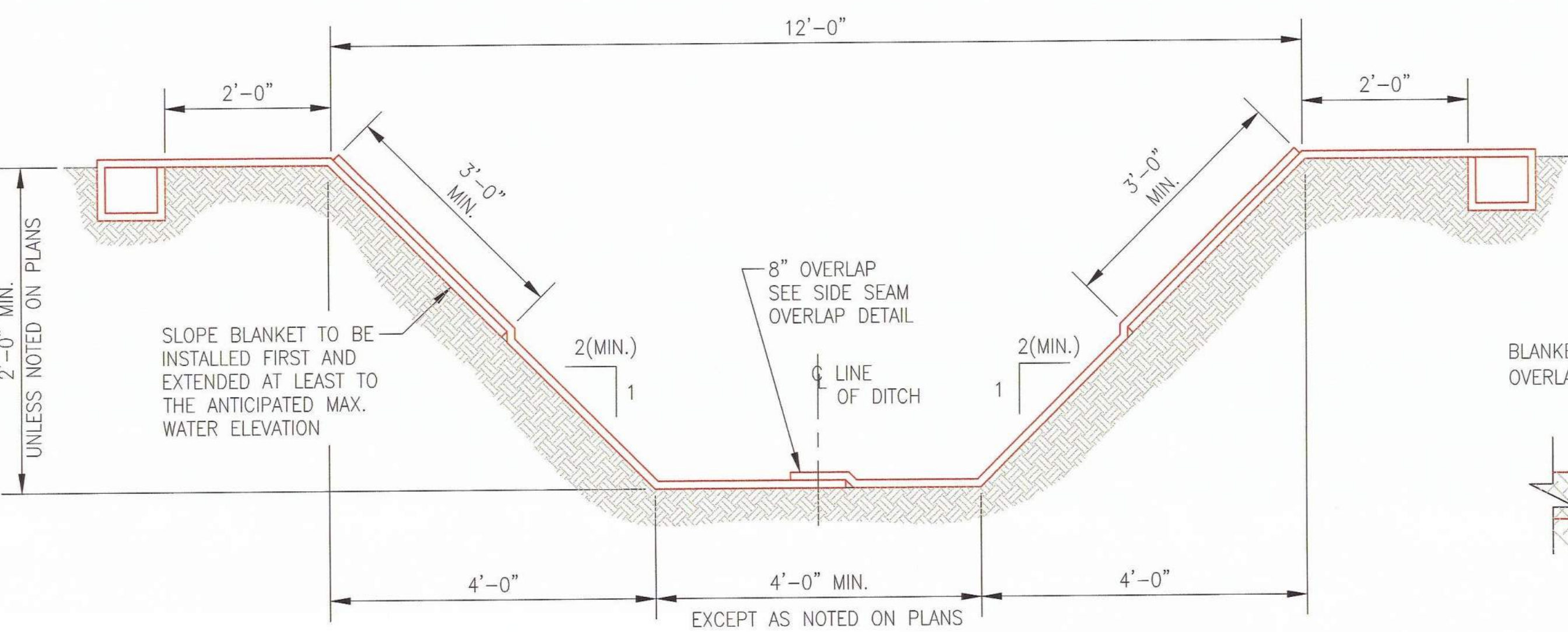
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CRU	MHL	LHB	KAM

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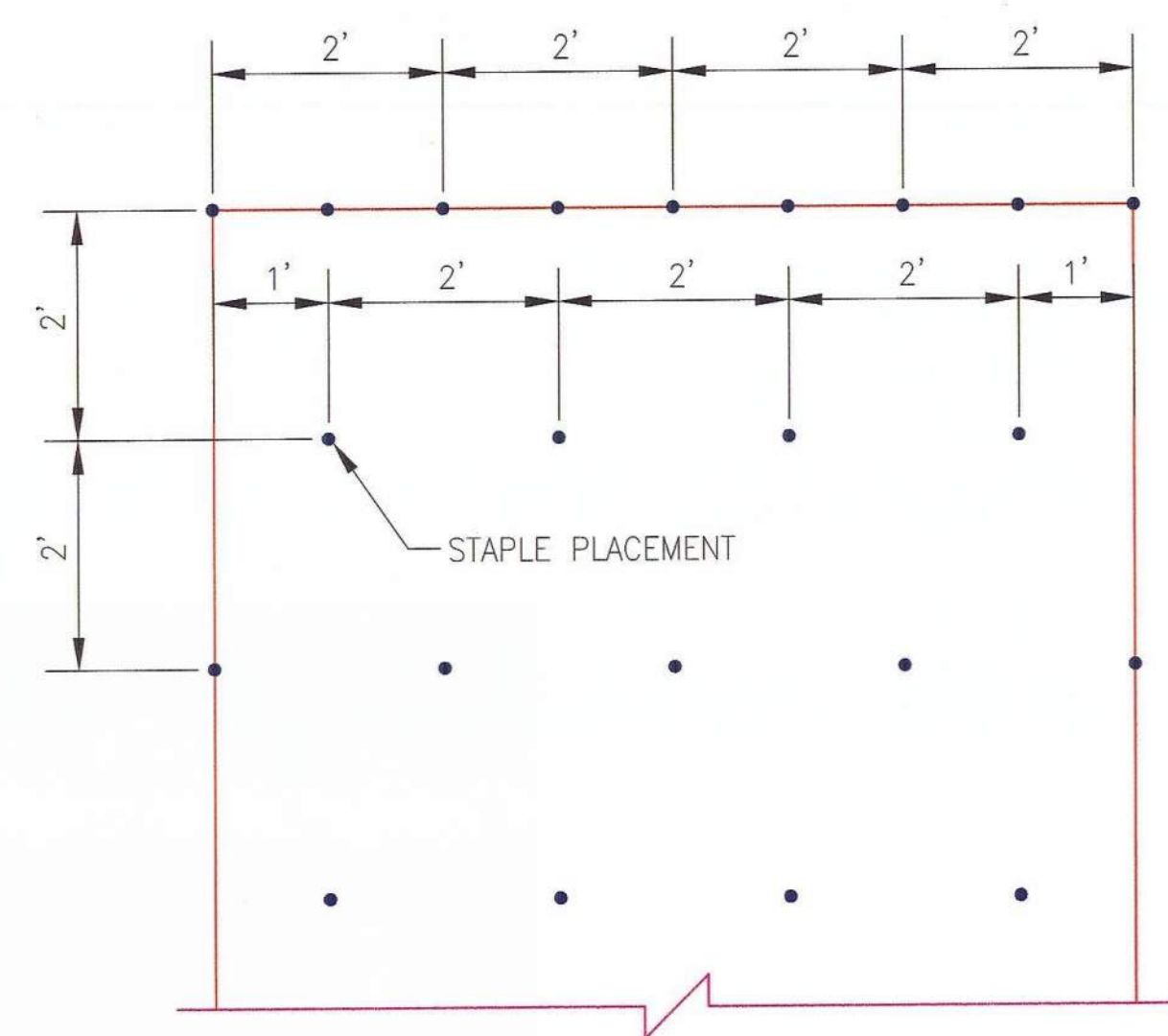
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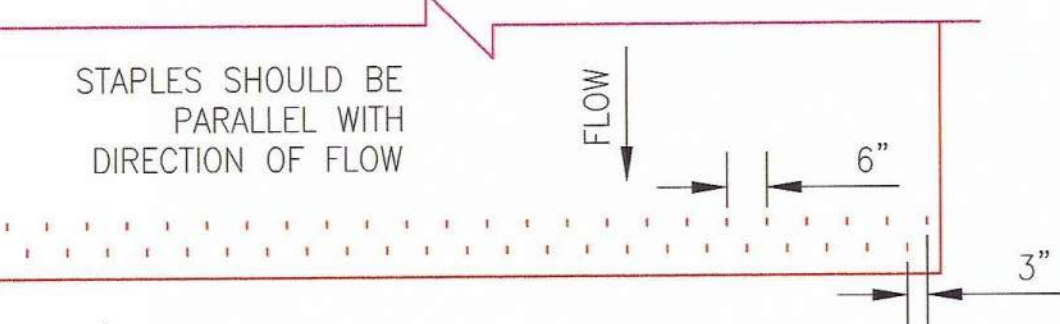
DITCH LINER DETAIL
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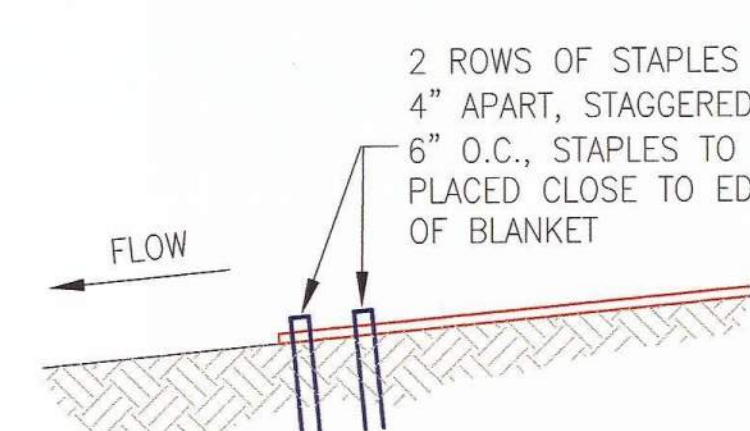
SECTION A-A
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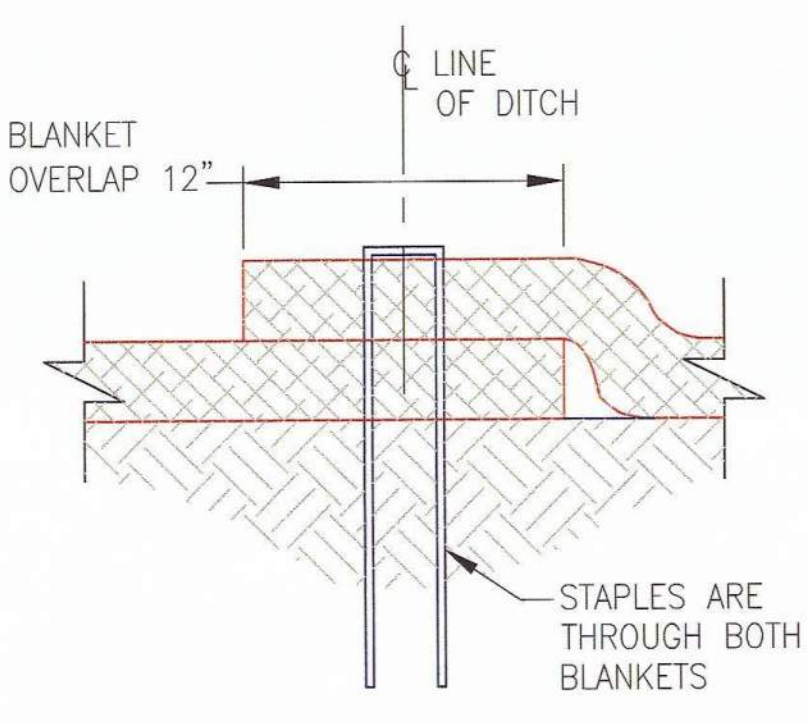
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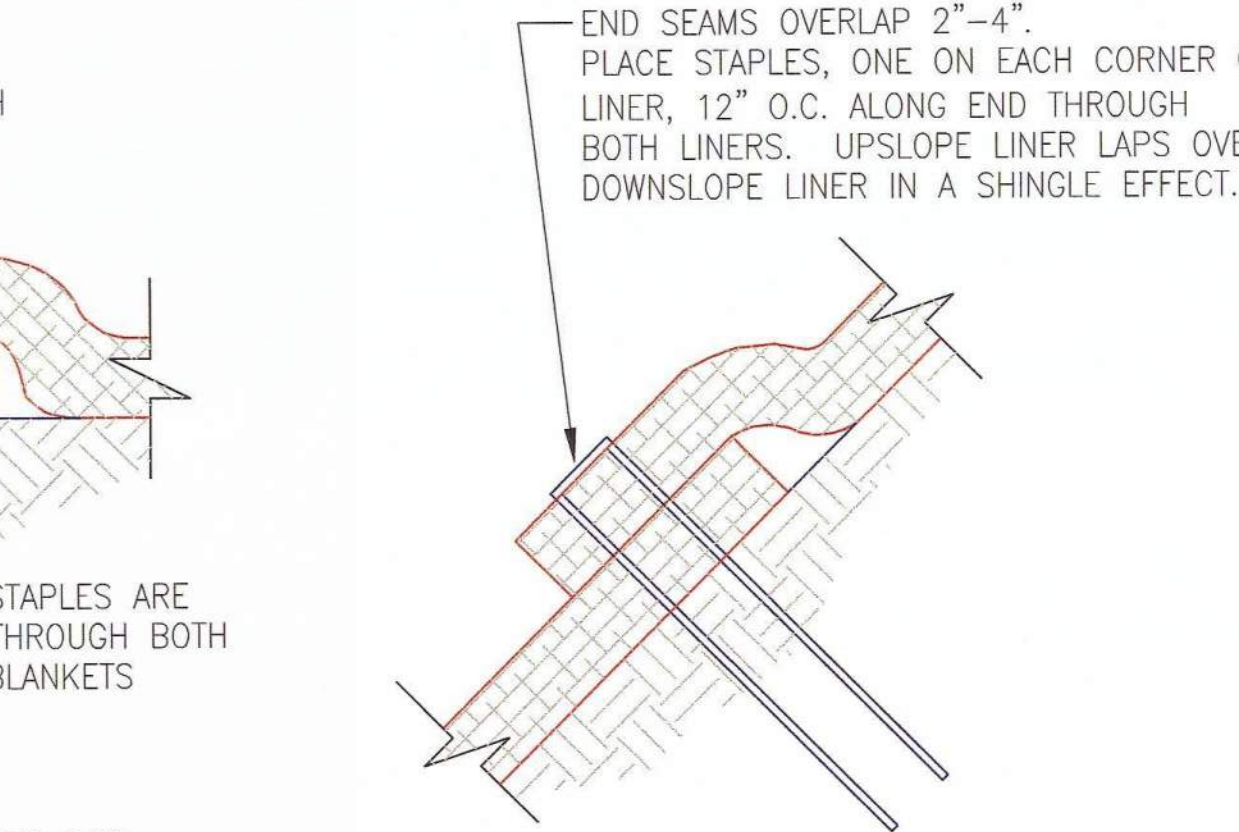
CHANNEL TERMINATION PLAN
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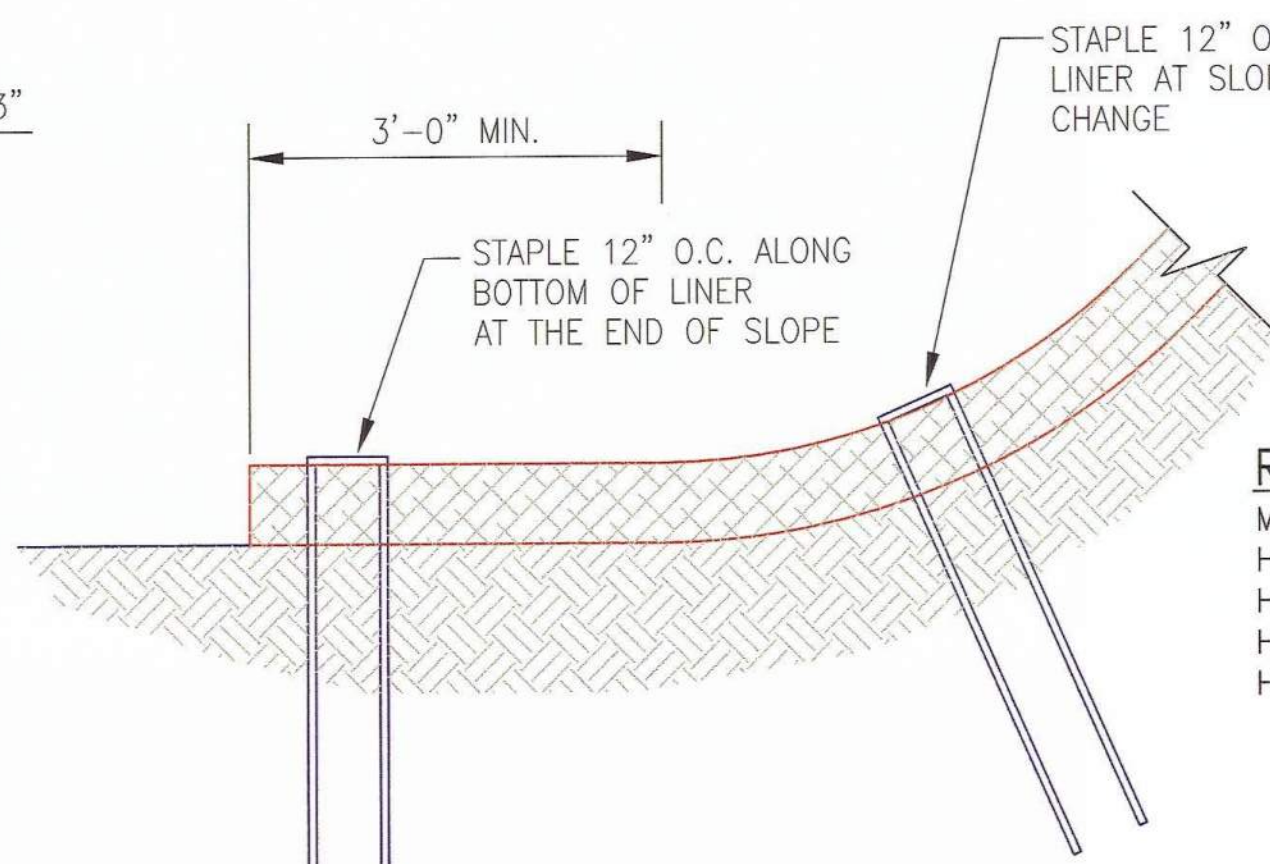
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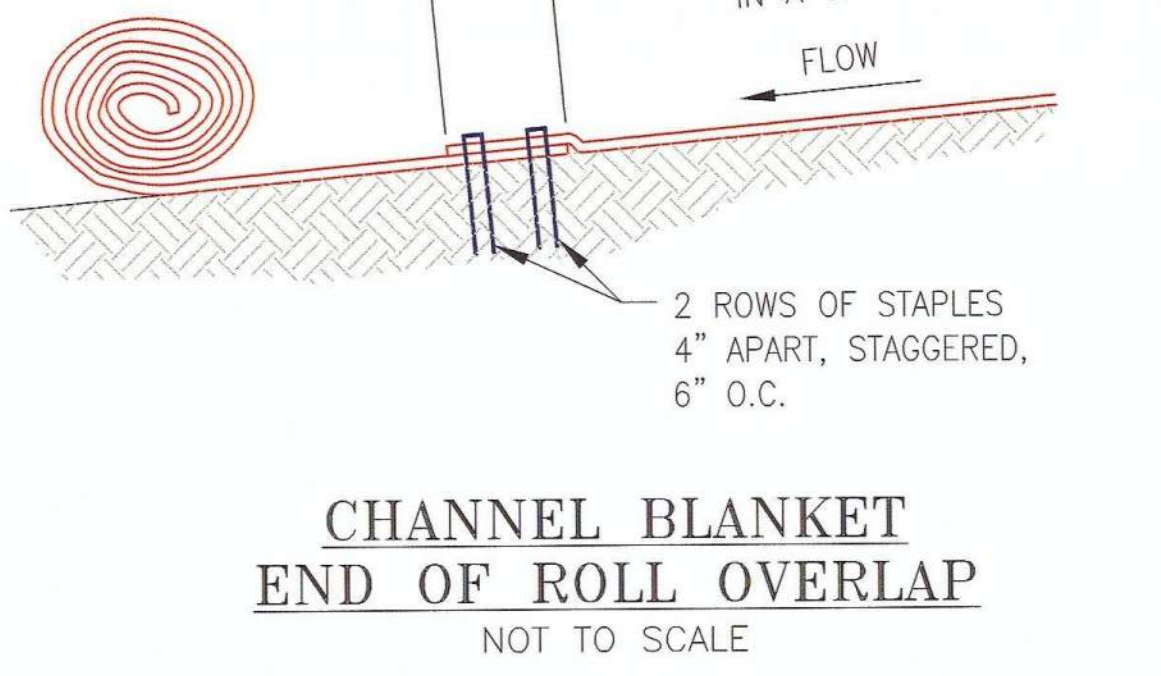
SIDE SEAM OVERLAP STAPLE DETAIL
NOT TO SCALE



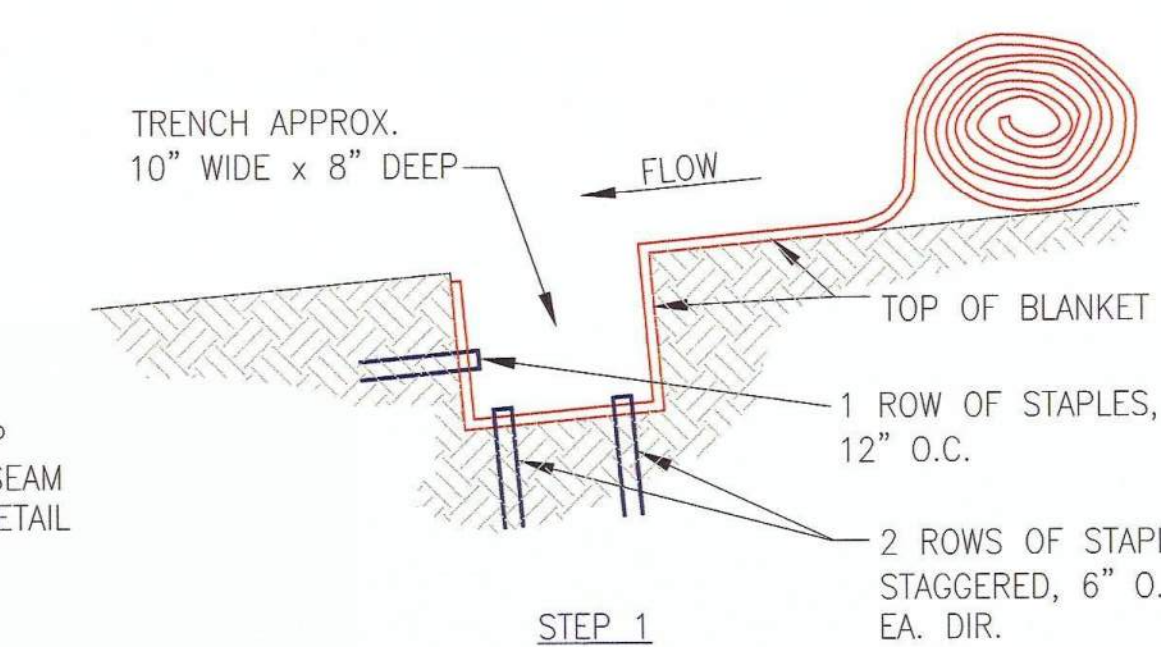
END OF ROLL OVERLAP
NOT TO SCALE



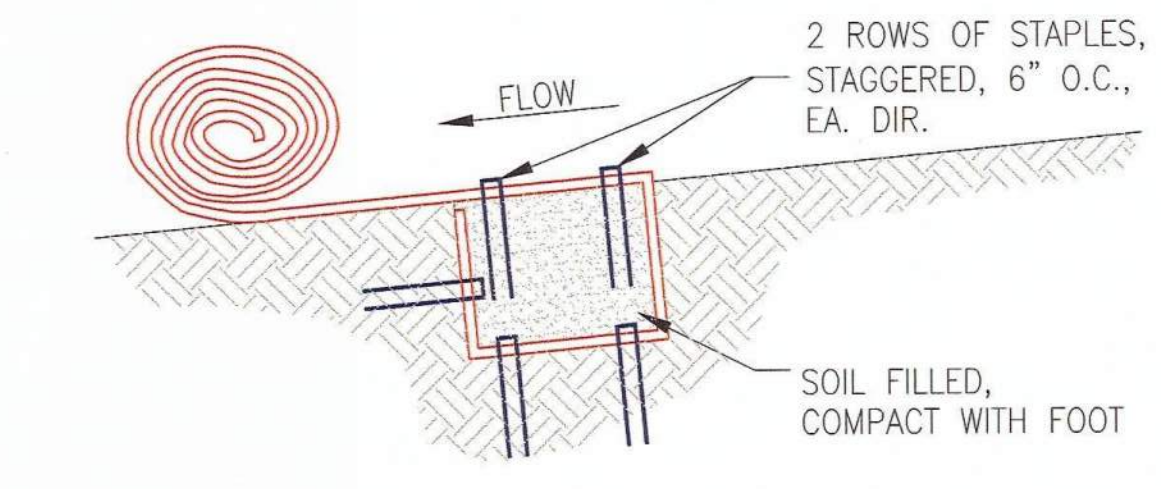
BOTTOM OF SLOPE TERMINATION
NOT TO SCALE



CHANNEL BLANKET END OF ROLL OVERLAP
NOT TO SCALE

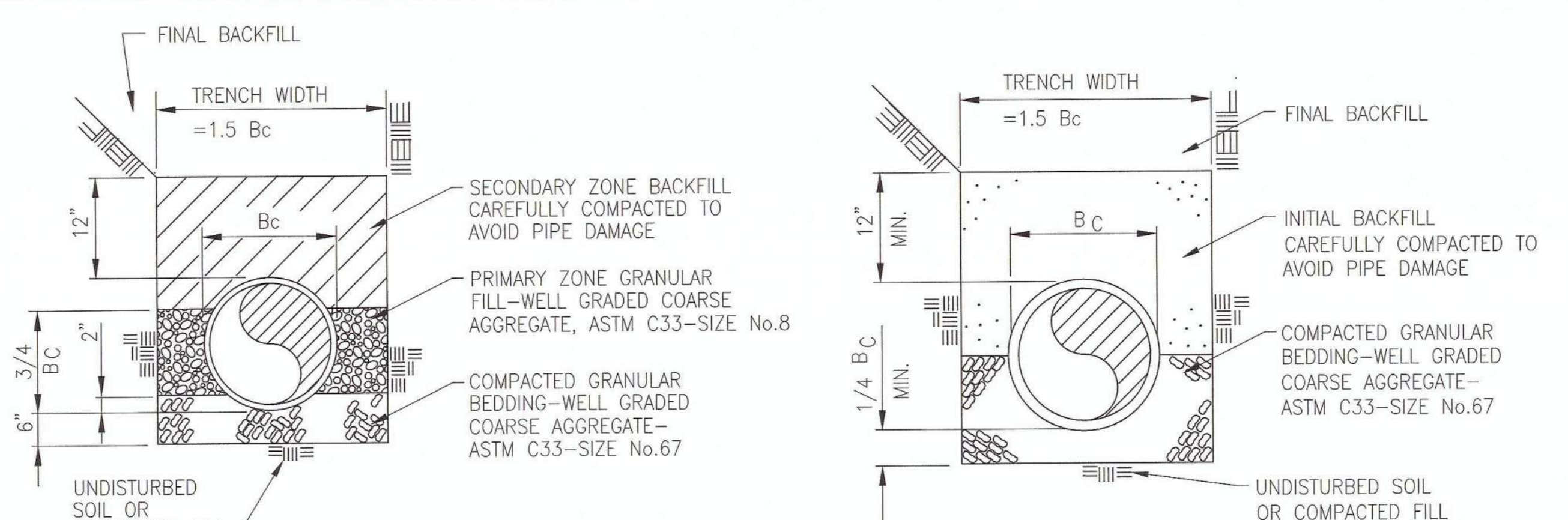


STEP 1



STEP 2

SLOPE TRENCH
NOT TO SCALE



CMP BEDDING DETAIL
PIPE BEDDING DETAILS
RCP BEDDING DETAIL
NOT TO SCALE

TABLE C-3
GRADED RIP-RAP STONE

G.D.O.T. ¹ NO.	SIZE, INCHES (SQ. OPENING)			COMMON USES
	MAX.	AVG. ²	MIN. ³	
TYPE 3	12	9	5	CREEK BANKS, PIPE OUTLETS
TYPE 1	24	12	7	LAKES, SHORELINES, & RIVERS

1. GEORGIA DEPARTMENT OF TRANSPORTATION
2. AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN LISTED SIZE.
3. 85-100% OF THE INDIVIDUAL STONE PARTICLES MAY BE LESS THAN LISTED SIZE.

DESIGN CRITERIA:
STRUCTURALLY LINED APRONS AT THE OUTLETS OF PIPES AND PAVED CHANNEL SECTIONS SHALL BE DESIGNED ACCORDING TO THE FOLLOWING CRITERIA:

CAPACITY:
PEAK STORMFLOW FROM THE 25-YEAR, 24-HOUR FREQUENCY STORM OR THE STORM SPECIFIED IN TITLE 12-7-1 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED OR THE DESIGN DISCHARGE OF THE WATER CONVEYANCE STRUCTURE, WHICHEVER IS GREATER.

TAILWATER DEPTH:
THE DEPTH OF THE TAILWATER IMMEDIATELY BELOW THE PIPE OUTLET MUST BE DETERMINED FOR THE DESIGN CAPACITY OF THE PIPE. MANNING'S EQUATION MAY BE USED TO DETERMINE TAILWATER DEPTH. IF THE TAILWATER DEPTH IS LESS THAN HALF THE DIAMETER OF THE OUTLET PIPE, IT SHALL BE CLASSIFIED AS A MINIMUM TAILWATER CONDITION. IF THE TAILWATER DEPTH IS GREATER THAN HALF THE PIPE DIAMETER, IT SHALL BE CLASSIFIED AS A MAXIMUM TAILWATER CONDITION. PIPES WHICH OUTLET ONTO FLAT AREAS WITH NO DEFINED CHANNEL MAY BE ASSUMED TO HAVE A MINIMUM TAILWATER CONDITION.

APRON LENGTH AND THICKNESS:
THE APRON LENGTH AND d_{50} STONE MEDIAN SIZE, SHALL BE DETERMINED FROM THE CURVES ACCORDING TO TAILWATER CONDITIONS:

MINIMUM TAILWATER - USE FIGURE 6-34.1 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION
MAXIMUM TAILWATER - USE FIGURE 6-34.2 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION
MAXIMUM STONE SIZE = $1.5 \times d_{50}$
APRON THICKNESS = $1.5 \times d_{max}$

APRON WIDTH:
IF THE PIPE DISCHARGES DIRECTLY INTO A WELL-DEFINED CHANNEL, THE APRON SHALL EXTEND ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION ONE FOOT ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS). IF THE PIPE DISCHARGES ONTO A FLAT AREA WITH NO DEFINED CHANNEL, THE WIDTH OF THE APRON SHALL BE DETERMINED AS FOLLOWS:
A. THE UPSTREAM END OF THE APRON, ADJACENT TO THE PIPE, SHALL HAVE A WIDTH THREE TIMES THE DIAMETER OF THE OUTLET PIPE.
B. FOR A MINIMUM TAILWATER CONDITION, THE DOWNSTREAM END OF THE APRON SHALL HAVE A WIDTH EQUAL TO THE PIPE DIAMETER PLUS THE LENGTH OF THE APRON. REFER TO FIGURE 6-24.1 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
C. FOR A MAXIMUM TAILWATER CONDITION, THE DOWN STREAM END SHALL HAVE A WIDTH EQUAL TO THE PIPE DIAMETER PLUS 0.4 TIMES THE LENGTH OF THE APRON. REFER TO FIGURE 6-24.2 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

BOTTOM GRADE:
THE APRON SHALL BE CONSTRUCTED WITH NO SLOPE ALONG ITS LENGTH (0.0% GRADE). THE INVERT ELEVATION OF THE DOWNSTREAM END OF THE APRON SHALL BE EQUAL TO THE ELEVATION OF THE INVERT OF THE RECEIVING CHANNEL. THERE SHALL BE NO OVERFALL AT THE END OF THE APRON.

SIDE SLOPE:
IF THE PIPE DISCHARGES INTO A WELL-DEFINED CHANNEL, THE SIDE SLOPES OF THE CHANNEL SHALL NOT BE STEEPER THAN 2:1.

ALIGNMENT:
THE APRON SHALL BE LOCATED SO THAT THERE ARE NO BENDS IN THE HORIZONTAL ALIGNMENT.

STORM DRAIN OUTLET PROTECTION NOTES, CONT.

GEOTEXTILE:
GEOTEXTILES SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE, AND THE ABUTMENTS. THE GEOTEXTILES WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SPECIFIED ON ACCORDANCE WITH AASHTO M288-96 SECTION 7.5, PERMANENT EROSION CONTROL RECOMMENDATIONS. THE GEOTEXTILE SHOULD BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS.

MATERIALS:
THE APRON MAY BE LINED WITH RIPRAP, GROUDED RIPRAP, OR CONCRETE. THE MEDIAN SIZED STONE FOR RIPRAP, d_{50} , SHALL BE DETERMINED FROM THE CURVES, FIGURES 6-34.1 AND 6-34.2, ACCORDING TO THE TAILWATER CONDITION. THE GRADATION, QUALITY AND PLACEMENT OF RIPRAP SHALL CONFORM TO APPENDIX C.

REFER TO FIGURE 6-34.3, FOR ALTERNATIVE STRUCTURES TO ACHIEVING ENERGY DISSIPATION AT AN OUTLET. FOR INFORMATION REGARDING THE SELECTION AND DESIGN OF THESE ALTERNATIVE ENERGY DISSIPATORS, REFER TO:

FHWA STANDARD (REF. HYDRAULIC DESIGN OF ENERGY DISSIPATORS FOR CULVERTS AND CHANNELS; HEC NO. 14, FHWA, AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402.

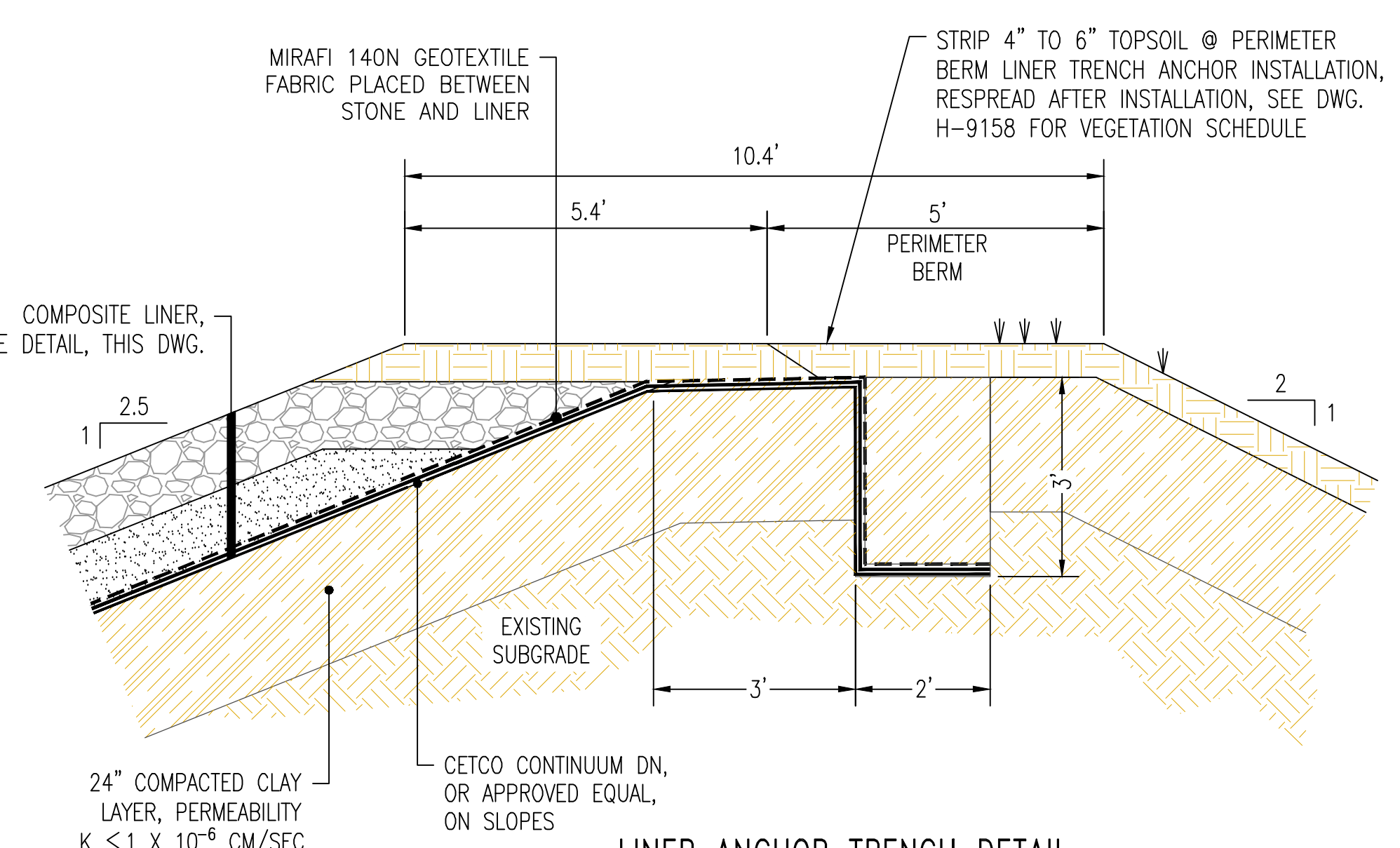
- CONSTRUCTION SPECIFICATIONS:**
- ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
 - THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
 - GEOTEXTILE MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.
 - RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.
 - THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
 - CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
 - ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
 - IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.
 - STONE QUALITY - SELECT STONE FOR RIPRAP FROM FIELD STONE OR QUARRY STONE. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHOULD BE AT LEAST 2.5.
 - INSTALL A FILTER TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN THE RIPRAP. THE FILTER SHOULD CONSIST OF A GRADED GRAVEL LAYER OR A SYNTHETIC FILTER CLOTH. SEE APPENDIX C; P. C-1 IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

MAINTENANCE:
INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

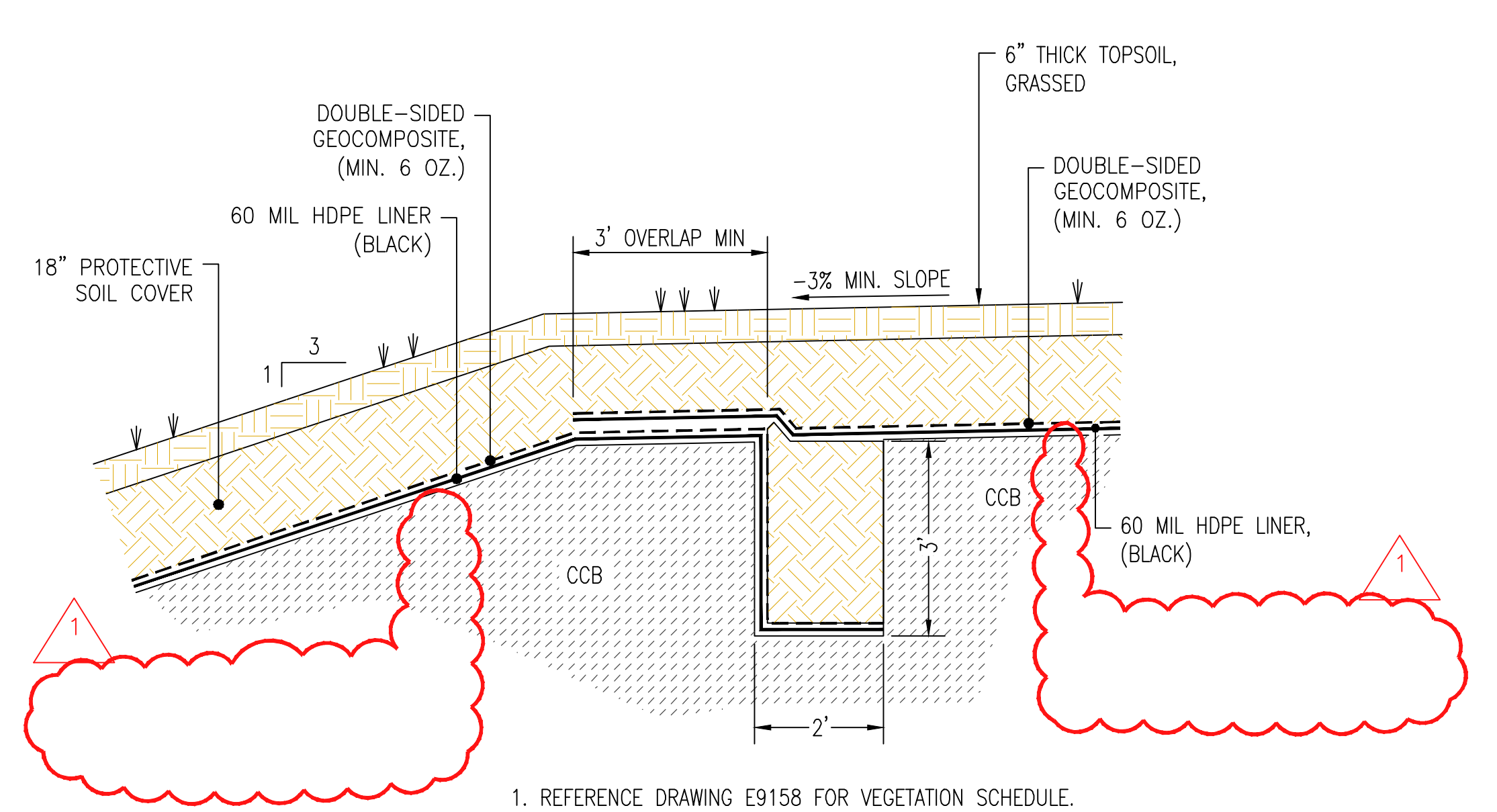
REFERENCES:
MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
H9223 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCELS A AND B
H9224 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCELS C AND D
H9225 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN PARCEL E
H9226 - COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN GENERAL NOTES, SCOPE OF WORK, EROSION CONTROL SECTIONS & DETAILS



REVISION 1		DATE 03/24/2014		REVISION 0		DATE 09/15/2005	
ISSUED FOR MINOR MODIFICATION				ISSUED FOR PERMIT			
REV. 1 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCKINSTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER, NO. 12887.							
MWO: GPC232851,55,56,58		HAMMOND UNITS 1-4 MATS PROJECT		REA: HM01208		EWO: 3158CG	
APPROVED BY: R. Wojcik DATE: 03/24/14 MINOR MODIFICATION APPROVAL SOLID WASTE PERMIT NO. 0570220, 010							
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Southern Company Services, Inc. FOR APR-4-2014 GEORGIA POWER COMPANY PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY LANDSCAPE PLAN MISC. DETAILS AND EROSION CONTROL SECTIONS & DETAILS							
BY: CRU		CHK'D: GHM	CIVL APPR: MHL	ELECT APPR: LHB	I/C APPR: KAM	MECH APPR: JDM	MGR APPR: GHM
SCALE: AS SHOWN		PROJ. I.D.		DRAWING NUMBER: H9227		SH: 1	CONT'D: FINAL

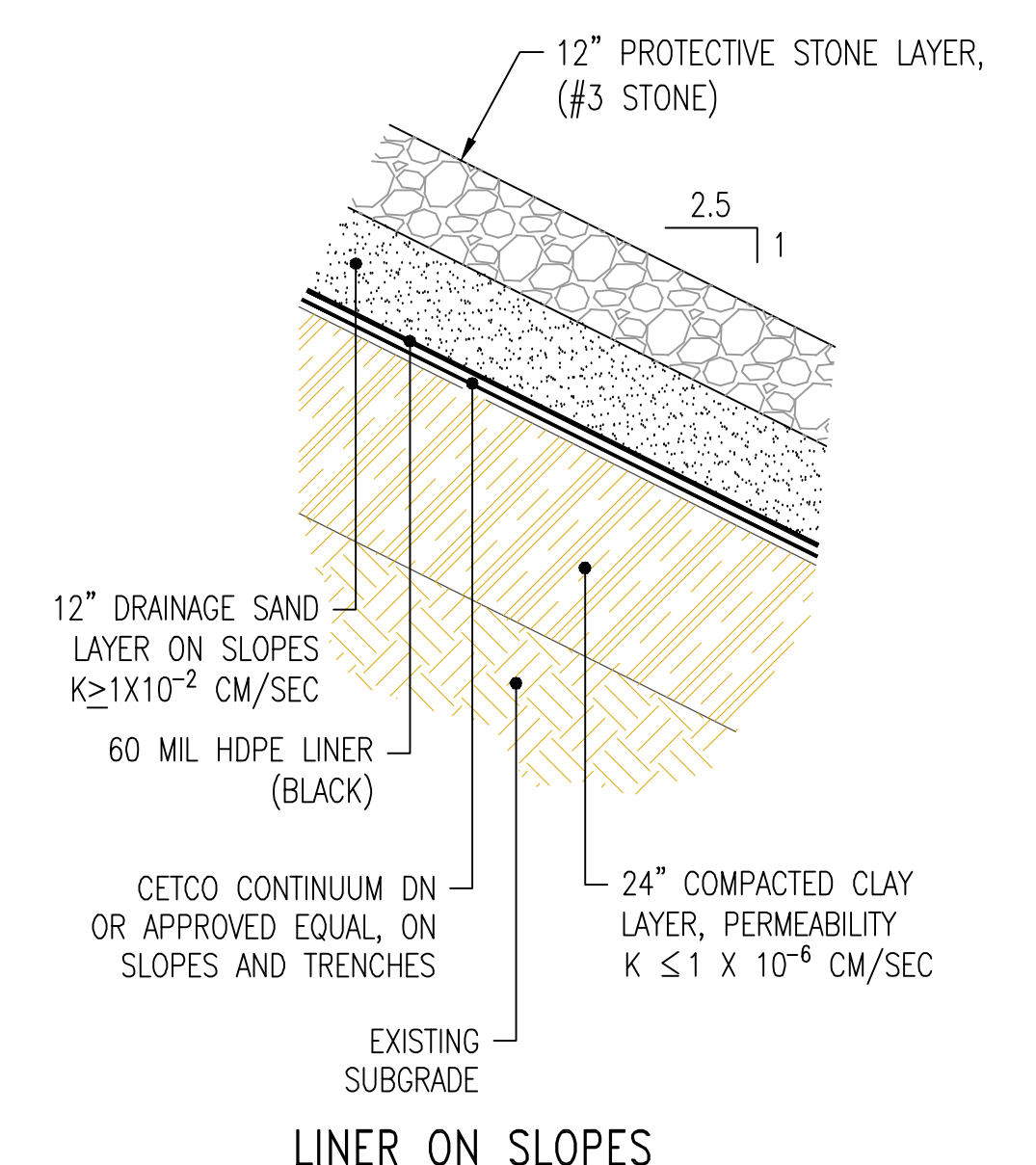


**LINER ANCHOR TRENCH DETAIL
(PARCELS A & B)**
NOT TO SCALE
(H9134, H9145, H9146, H9147, H11525)

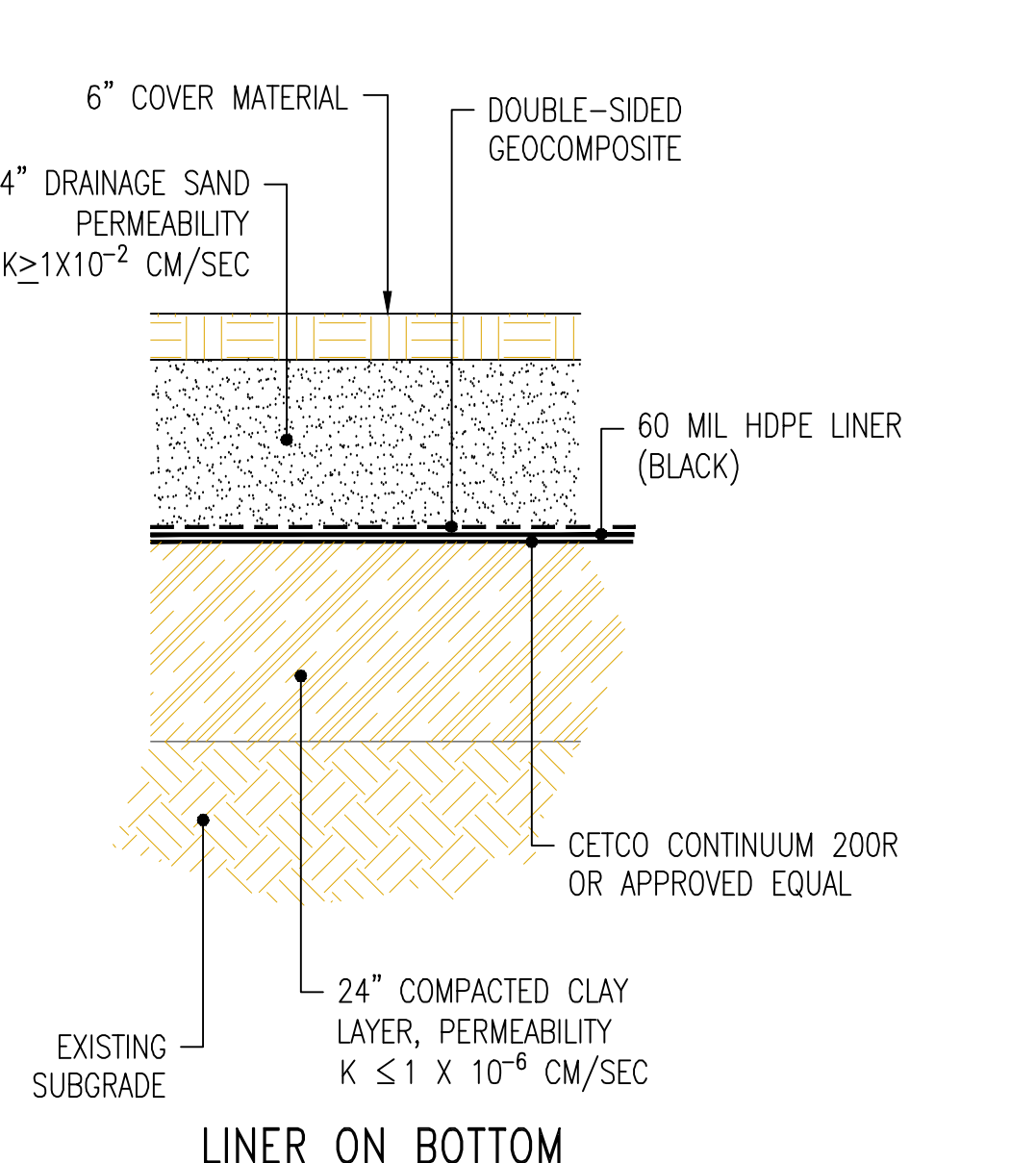


1. REFERENCE DRAWING E9158 FOR VEGETATION SCHEDULE.
2. REFERENCE DRAWING H9159 FOR FINAL COVER TECHNICAL SPECIFICATIONS.

**FINAL COVER WITH TOP-OF-SLOPE
ANCHOR TRENCH TYPICAL SECTION
(PARCELS A & B)**
NOT TO SCALE
(H9136, H9145, H9146, H9147)

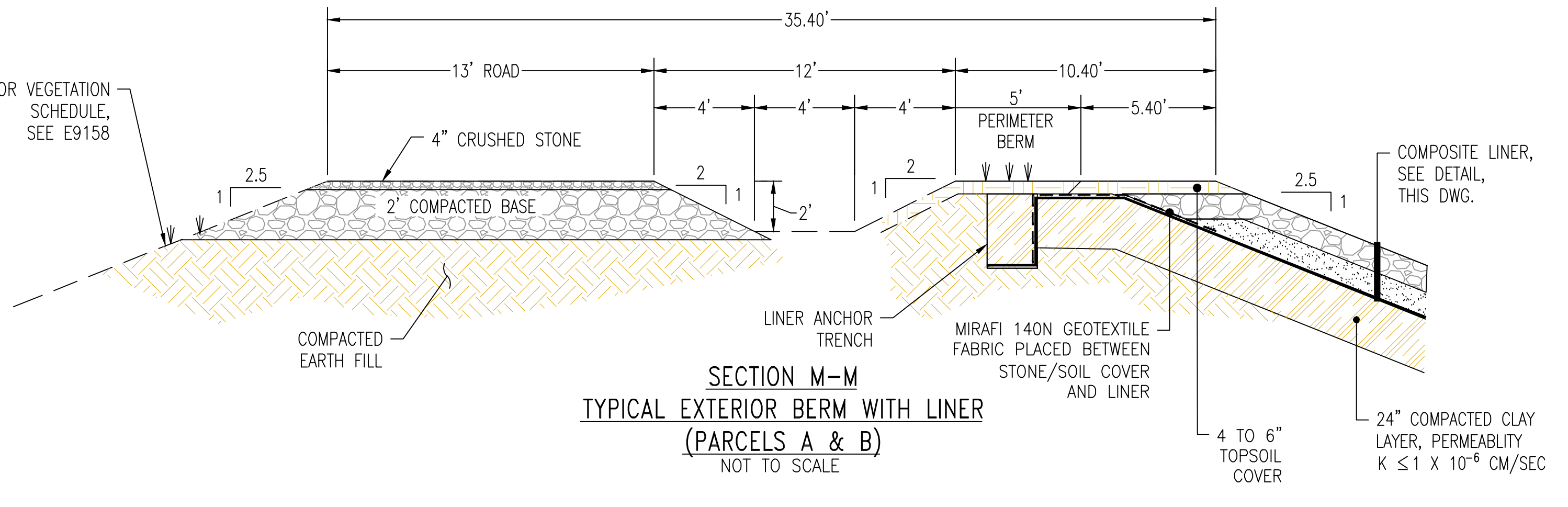


LINER ON SLOPES

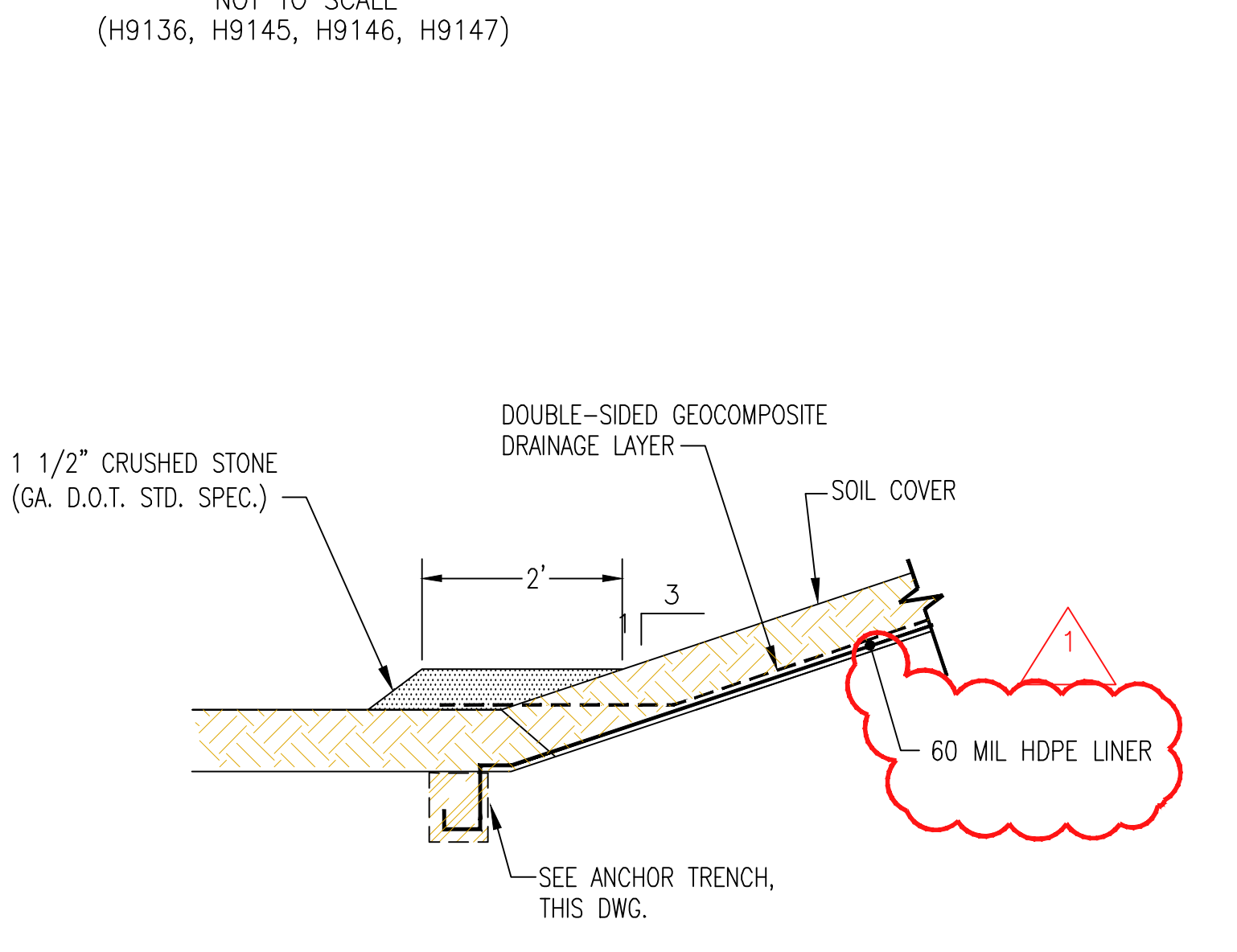


LINER ON BOTTOM

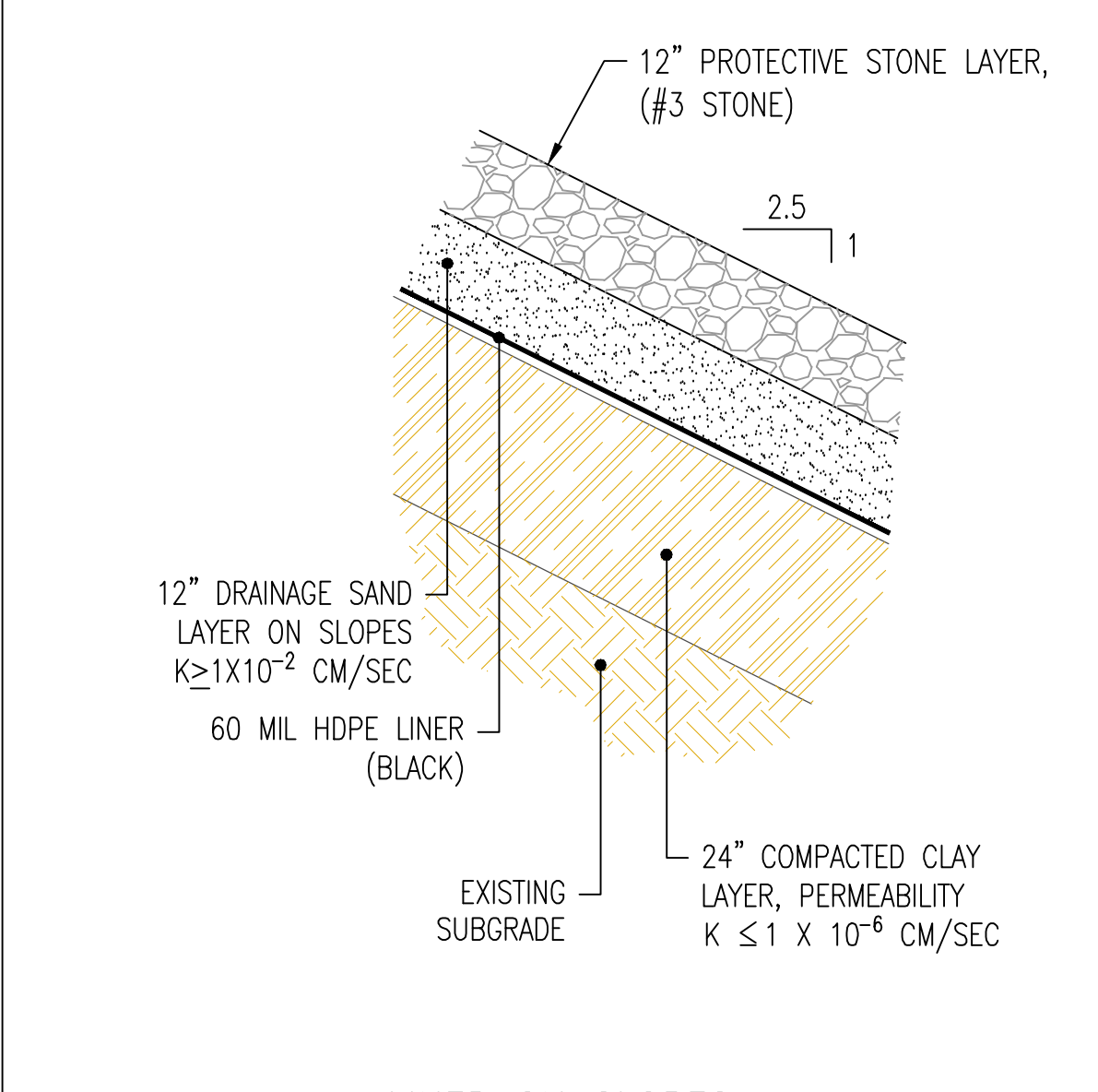
**COMPOSITE LINER SYSTEM DETAIL
(PARCELS A & B)**
NOT TO SCALE
(H9134, H9145, H9146, H9147, H11525)



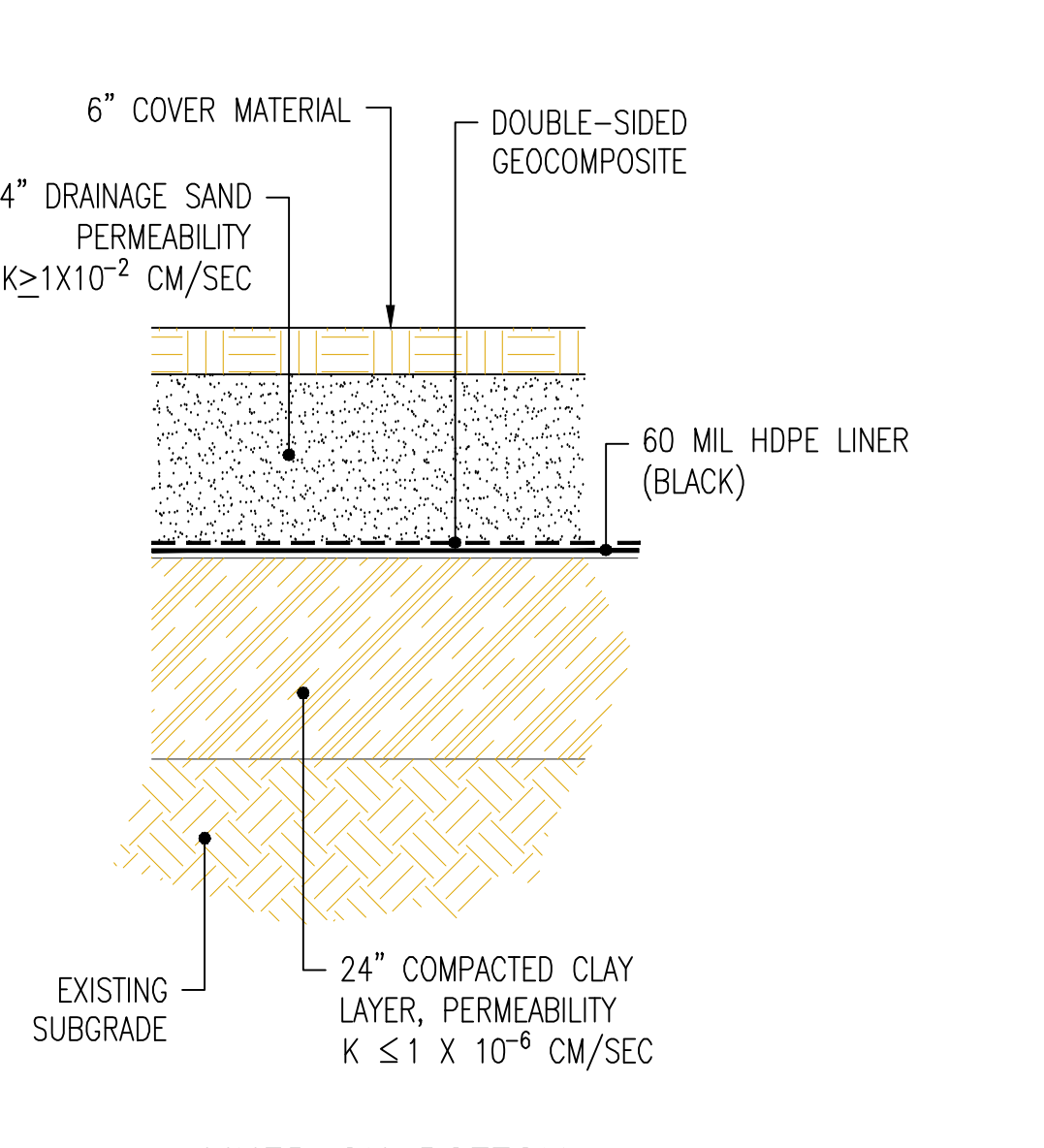
**SECTION M-M
TYPICAL EXTERIOR BERM WITH LINER
(PARCELS A & B)**
NOT TO SCALE



**DETAIL 3
FINAL COVER GEOCOMPOSITE TOE DRAIN DETAIL**
NOT TO SCALE
(THIS DWG.)

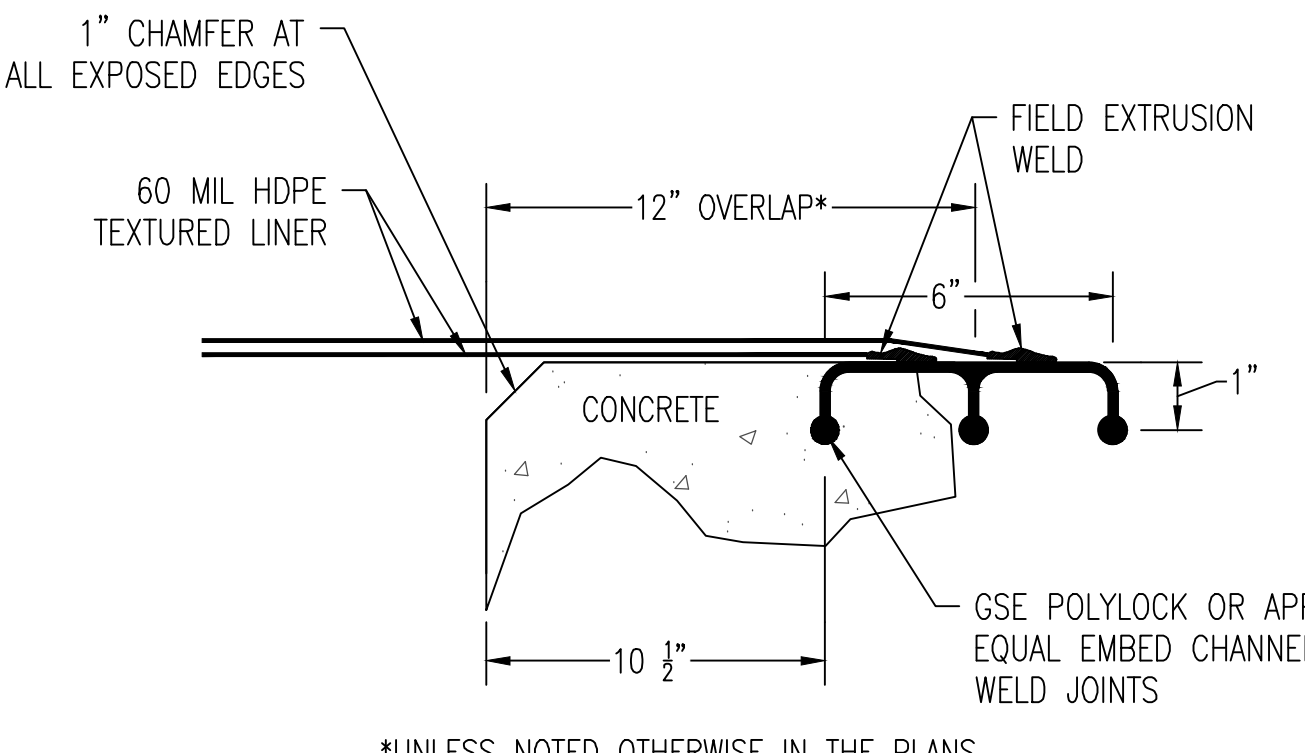


LINER ON SLOPES

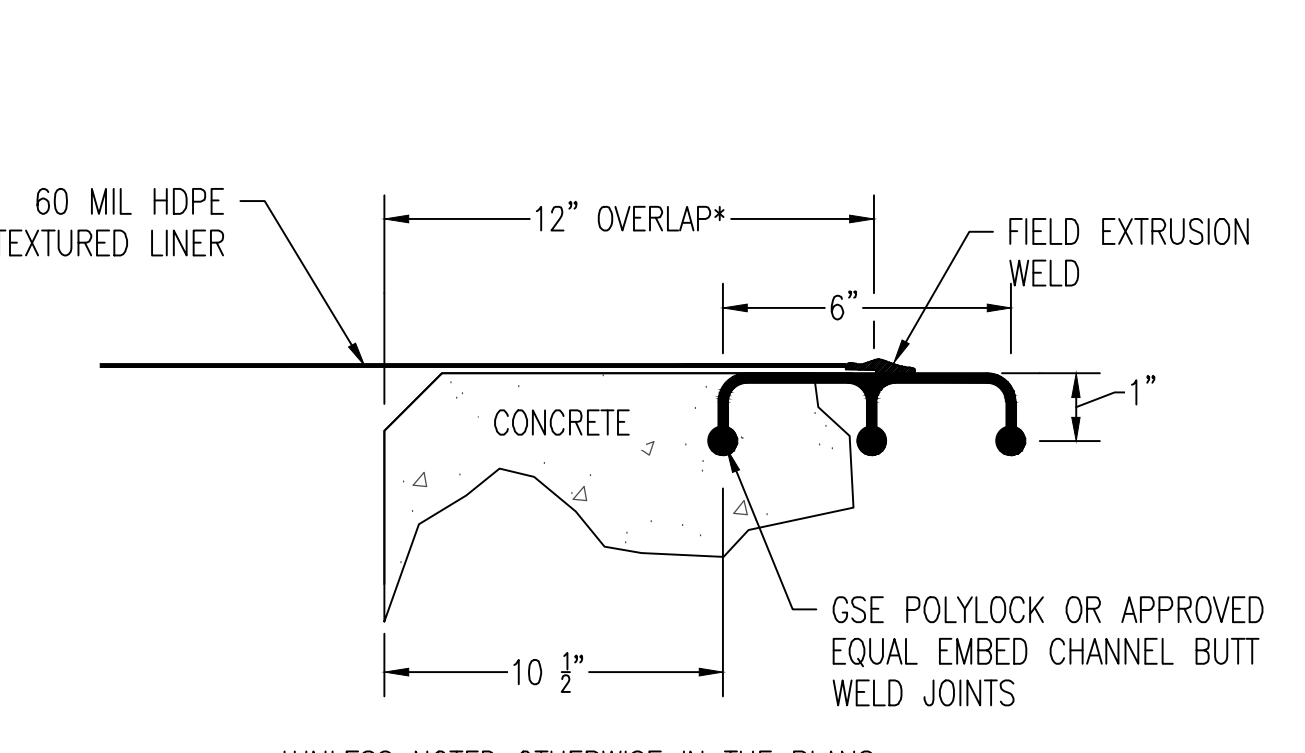


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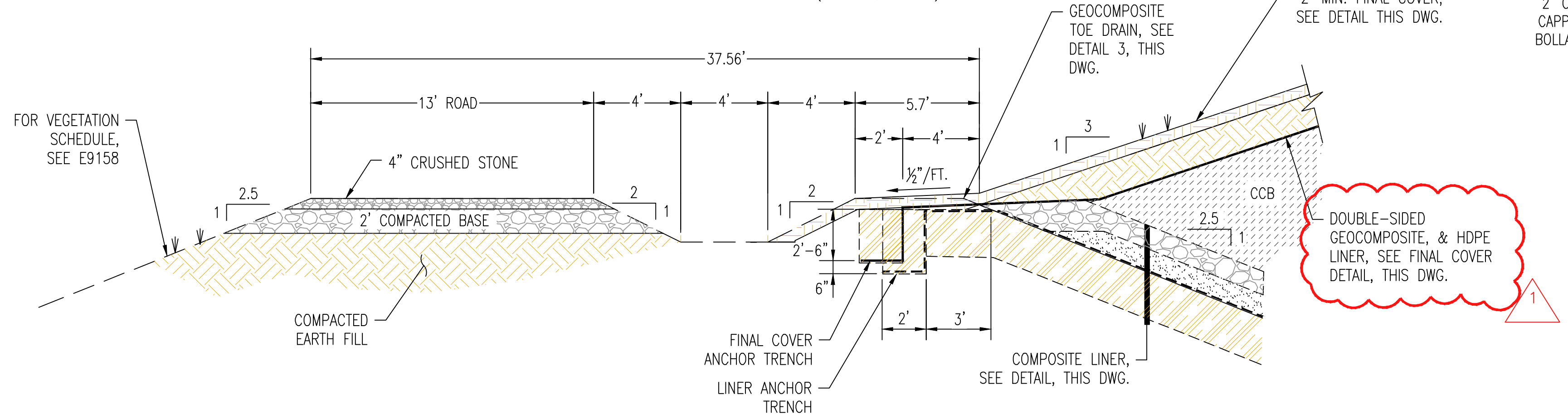
**ALTERNATIVE COMPOSITE LINER SYSTEM DETAILS
(PARCELS A & B)**
NOT TO SCALE
(H9134, H9145, H9146, H9147, H11525)



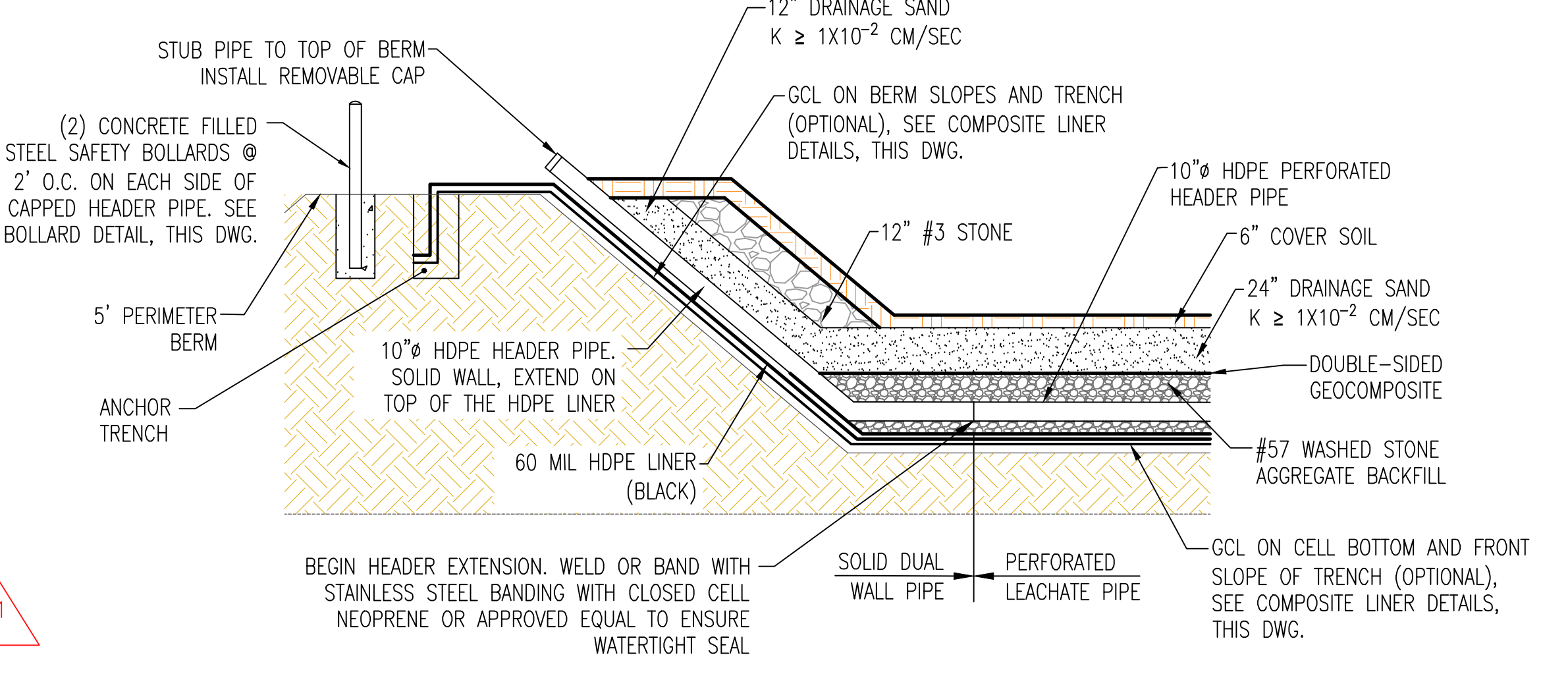
**EMBED CHANNEL DETAIL 2
DOUBLE HDPE LINER ATTACHMENT**
NOT TO SCALE
(H11524, H1525)



**EMBED CHANNEL DETAIL 1
SINGLE HDPE LINER ATTACHMENT**
NOT TO SCALE
(H11523, H1526)



**TYPICAL EXTERIOR BERM WITH COVER/CAP
(PARCELS A & B)**
NOT TO SCALE
(H9136, H9145, H9146, H9147)



**LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
CAPPED HEADER SECTION**
NOT TO SCALE
(H9134)

- REFERENCES:**
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

REV. 1 OF THIS DRAWING BEING PART OF THE "CCR PERMIT APPLICATION" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY JON A. SPARKMAN, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE028622



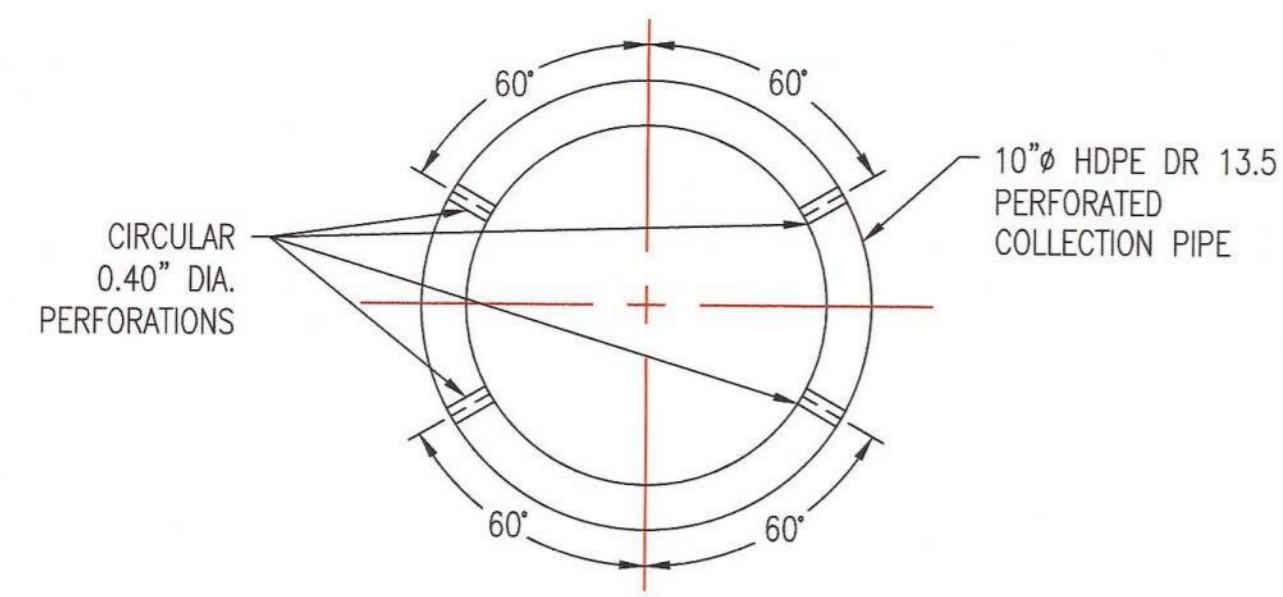
Stantec Consulting Services Inc.

FOR

GEORGIA POWER COMPANY
PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS A & B
GRADING, DRAINAGE AND COVER DETAILS

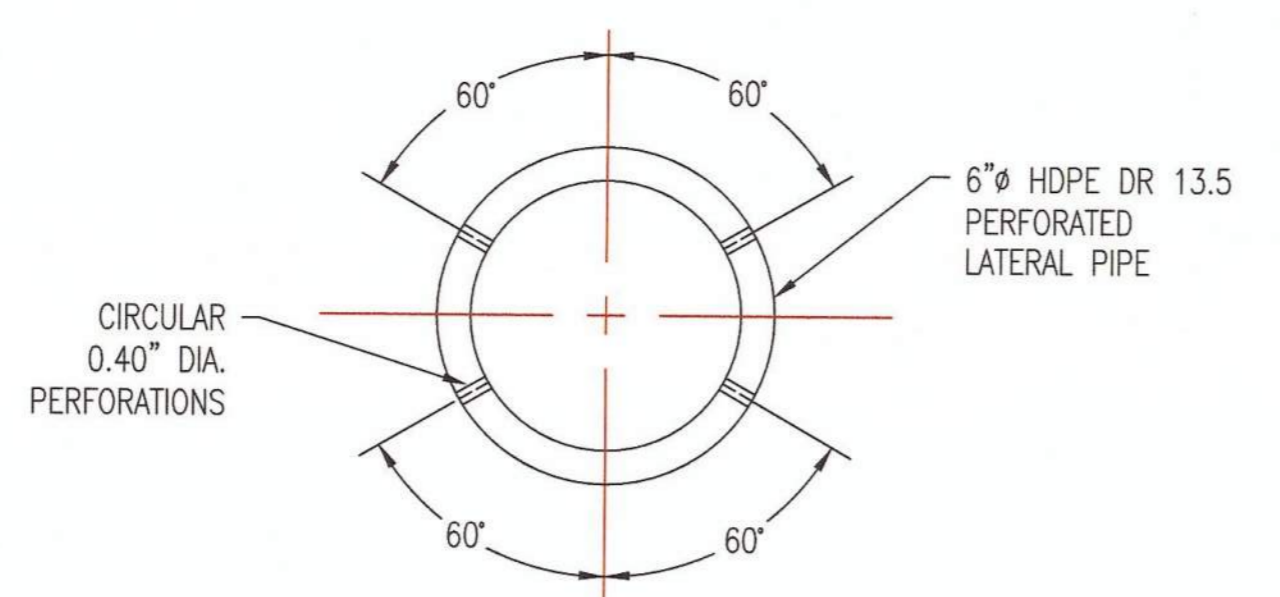
REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
1	11/16/2018	0	08/19/2013										
ISSUED FOR CCR PERMIT APPLICATION										ISSUED FOR MINOR MODIFICATION			
BY	CHK'D	CIVL APPR	ELECT APPR	1/C APPR	MECH APPR	DISC MGR	BY	CHK'D	CIVL APPR	ELECT APPR	1/C APPR	MECH APPR	DISC MGR
SCC	JRC	JAS					CRU	MHL	LHB				KAM

SCALE	DRAWING NUMBER	SHEET	CONTD	REV
NONE	H11522	1	FINAL	1



NOTE: AASHTO CLASS 1 PERFORATION FOR 10" PIPE-6 ROWS OF PERFORATIONS REQ'D PER FT.-OF-PIPE (TOTAL 24 PER FT OF PIPE. EACH PERFORATION 0.4" CIRCULAR.)

COLLECTOR PIPE

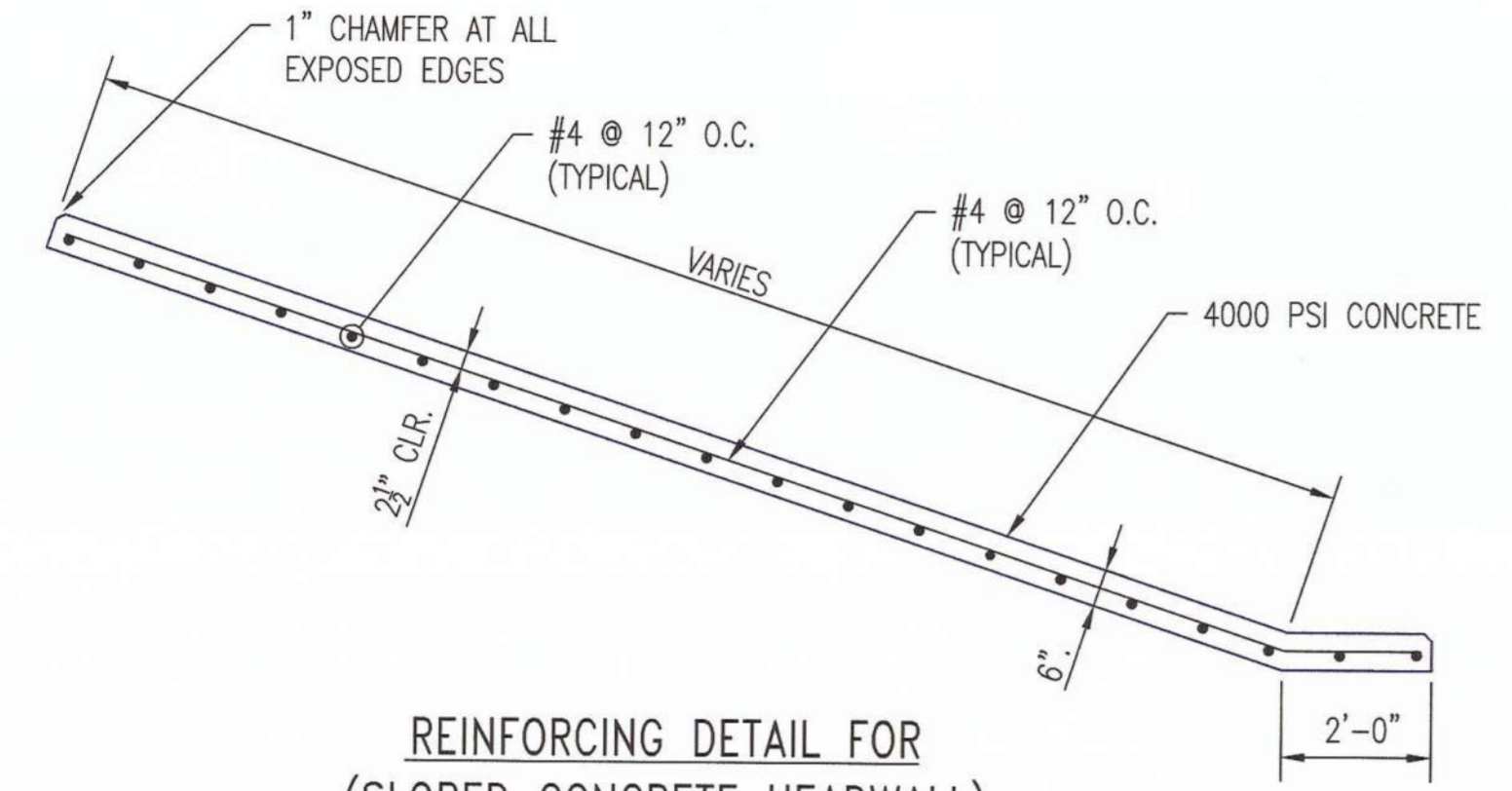


NOTE: AASHTO CLASS 1 PERFORATION FOR 6" PIPE-6 ROWS OF PERFORATIONS REQ'D PER FT.-OF-PIPE (TOTAL 24 PER FT OF PIPE. EACH PERFORATION 0.4" CIRCULAR.)

LATERAL PIPE

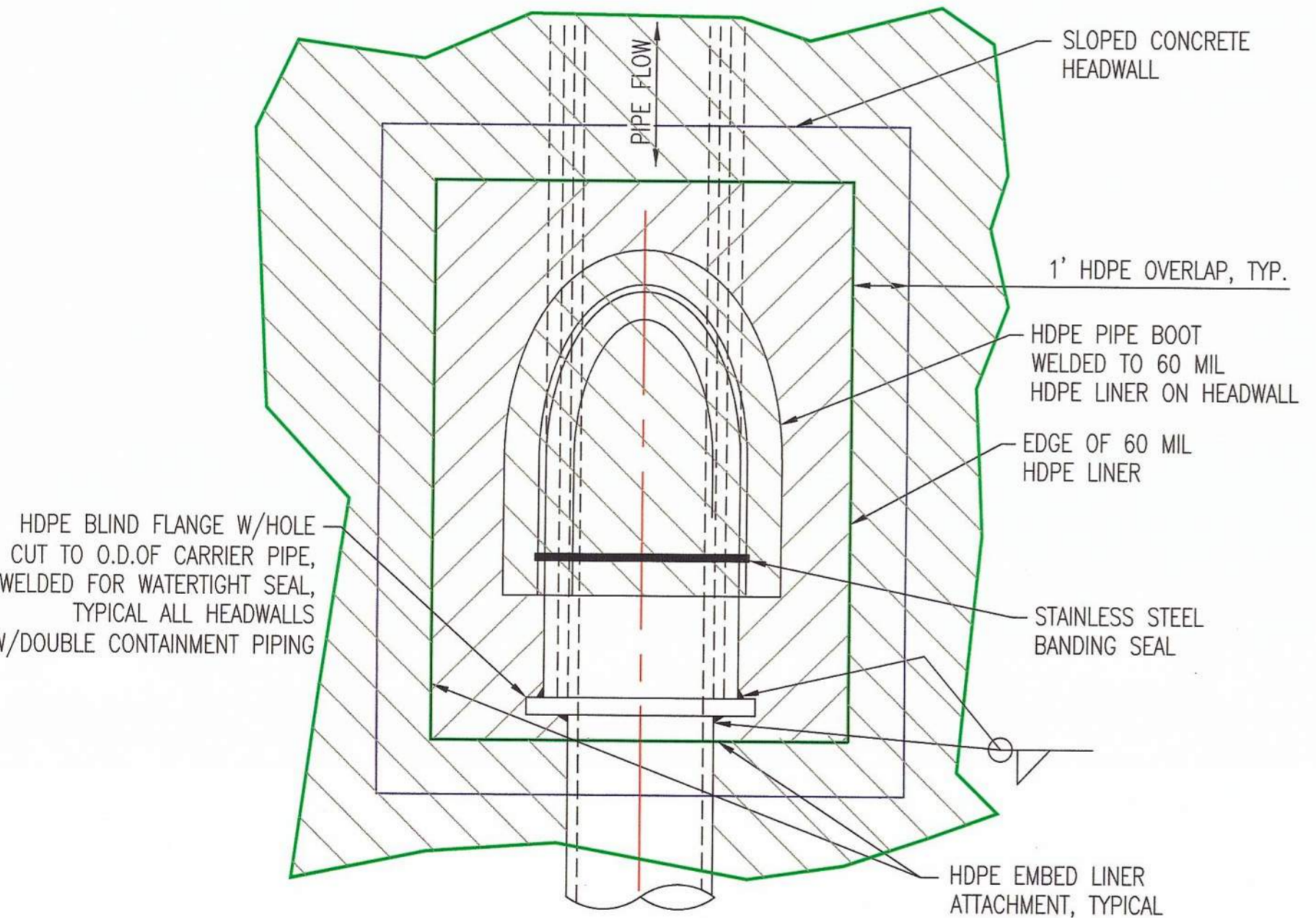
LEACHATE PERFORATED PIPE DETAILS

NOT TO SCALE (THIS DWG.)

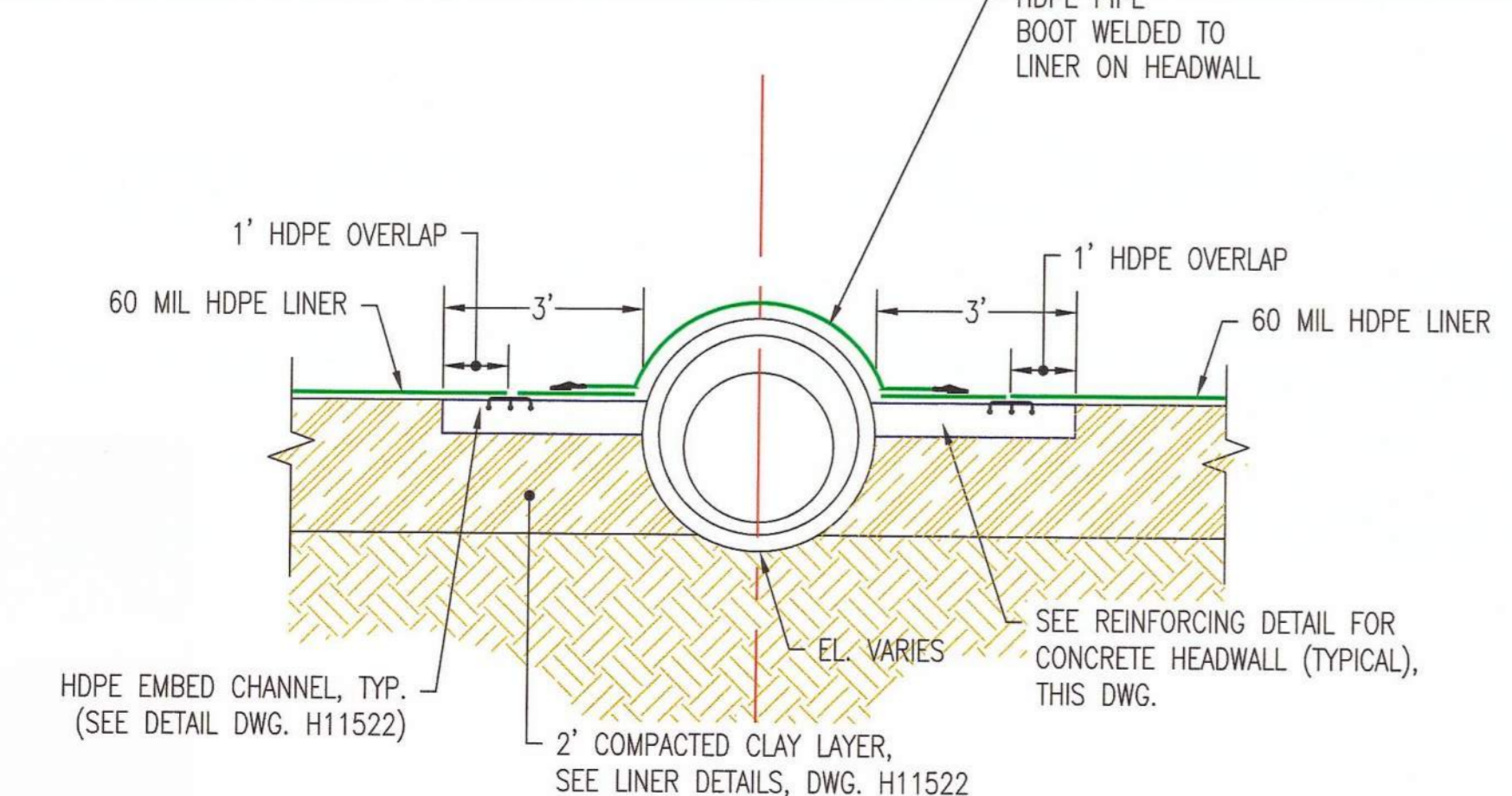


REINFORCING DETAIL FOR (SLOPED CONCRETE HEADWALL)

NOT TO SCALE (H9134, H11525, THIS DWG.)

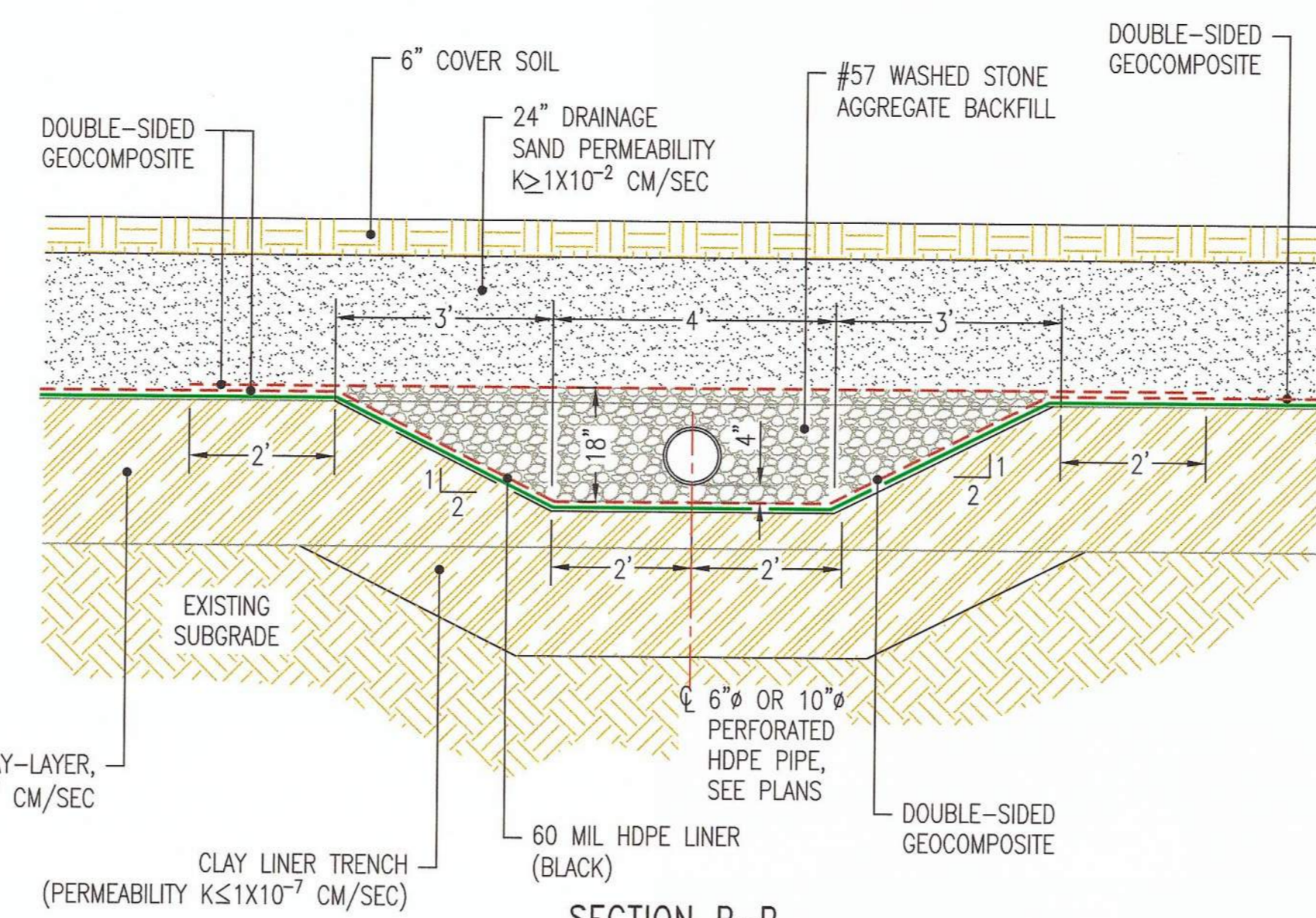


PLAN VIEW NOT TO SCALE



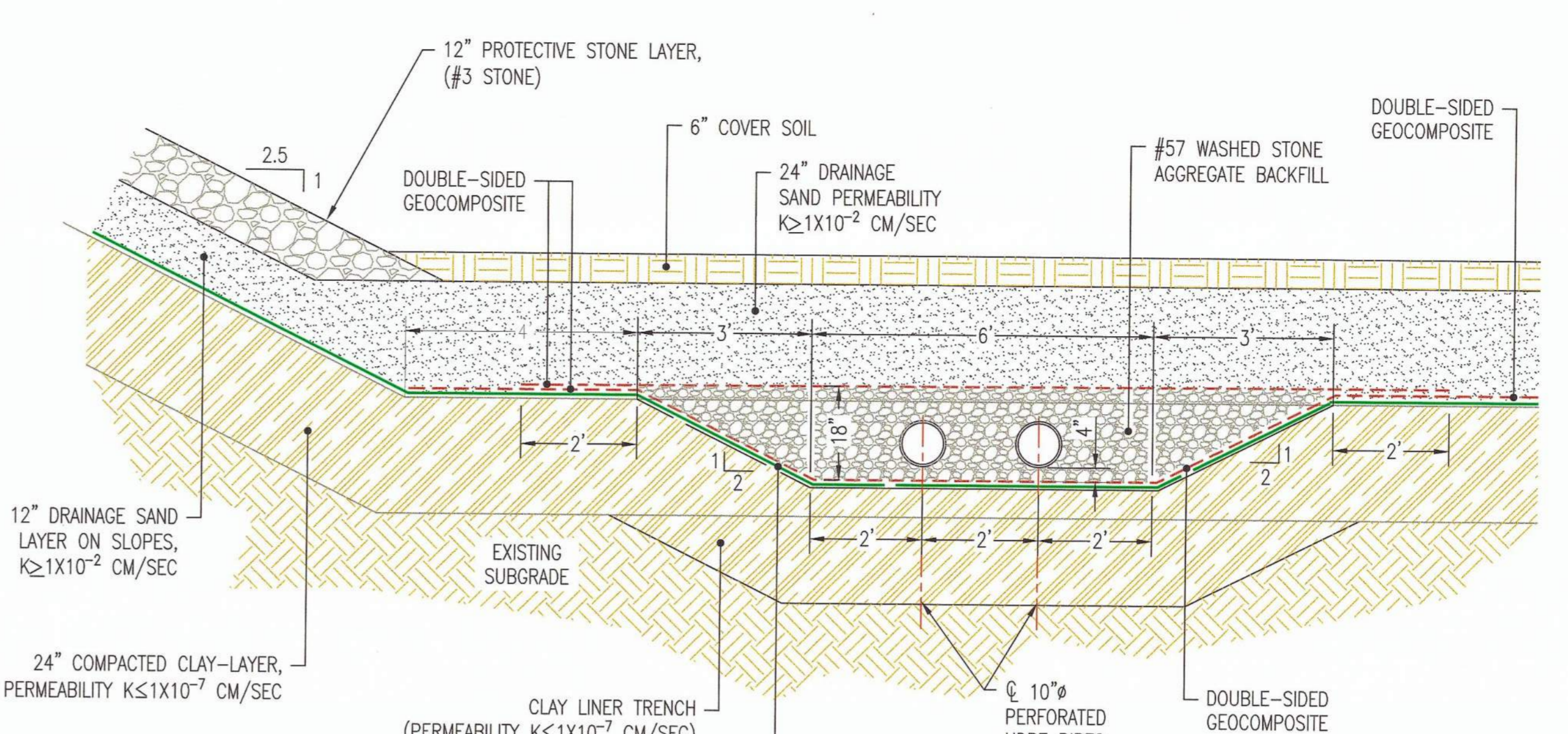
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) SINGLE PIPE HEADWALL DETAIL

NOT TO SCALE (H9134, H11525, THIS DWG.)



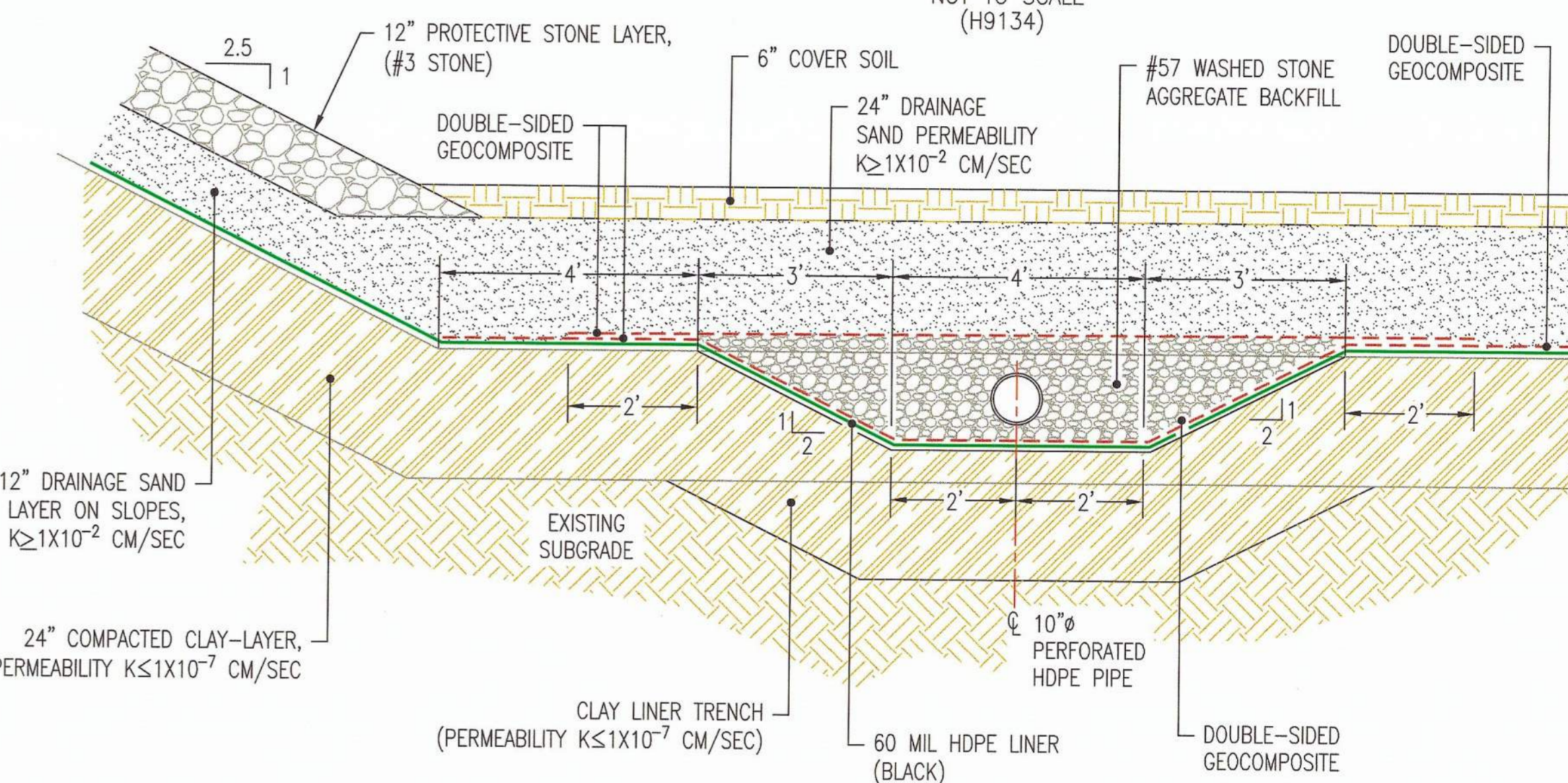
SECTION P-P LEACHATE LATERAL TRENCH DETAIL (PARCELS A & B)

NOT TO SCALE (H9134)



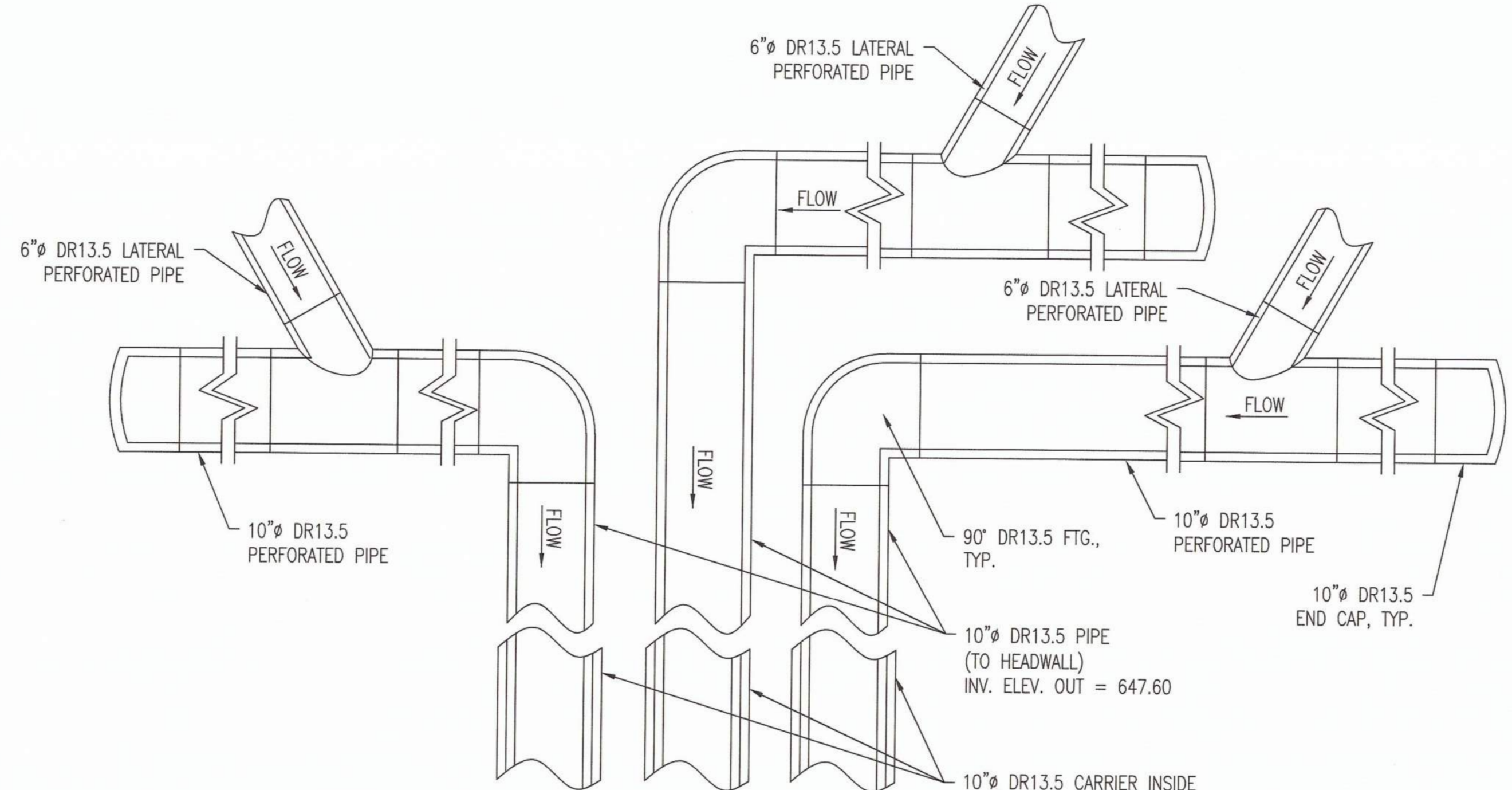
SECTION S-S LEACHATE COLLECTOR TRENCH DOUBLE PIPE DETAIL (PARCELS A & B)

NOT TO SCALE (H9134)



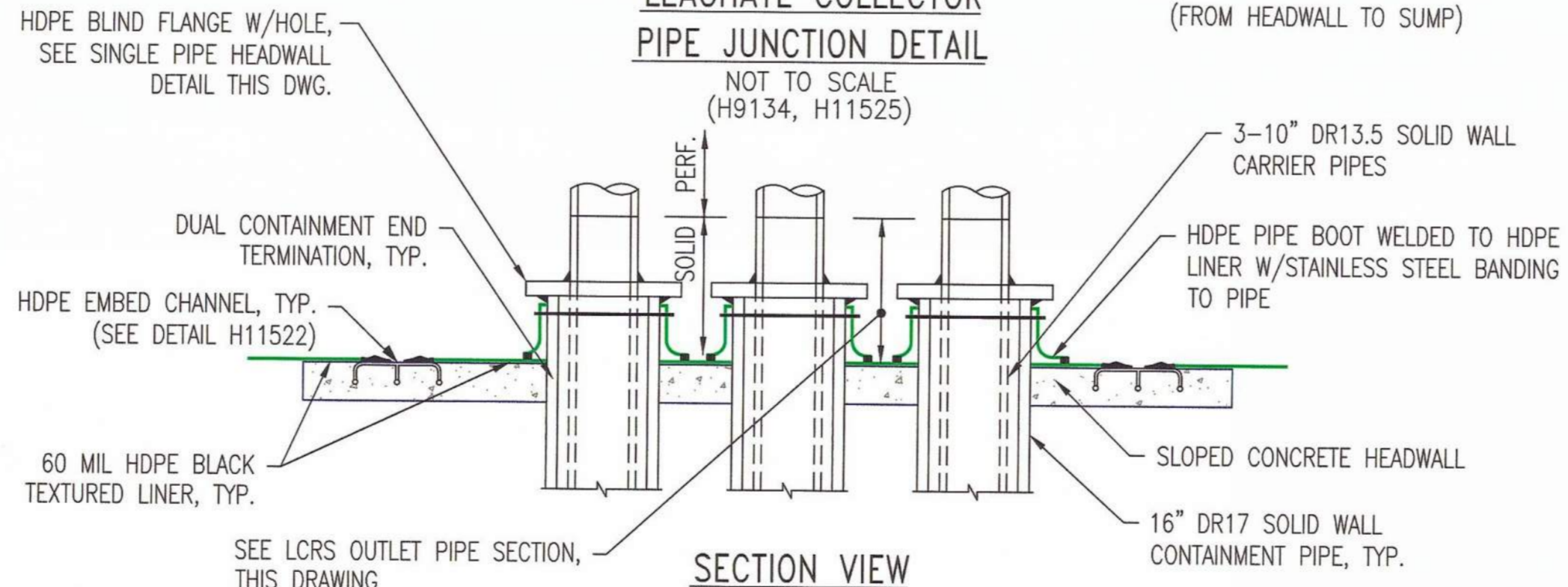
SECTION Q-Q LEACHATE COLLECTOR TRENCH SINGLE PIPE DETAIL (PARCELS A & B)

NOT TO SCALE (H9134)

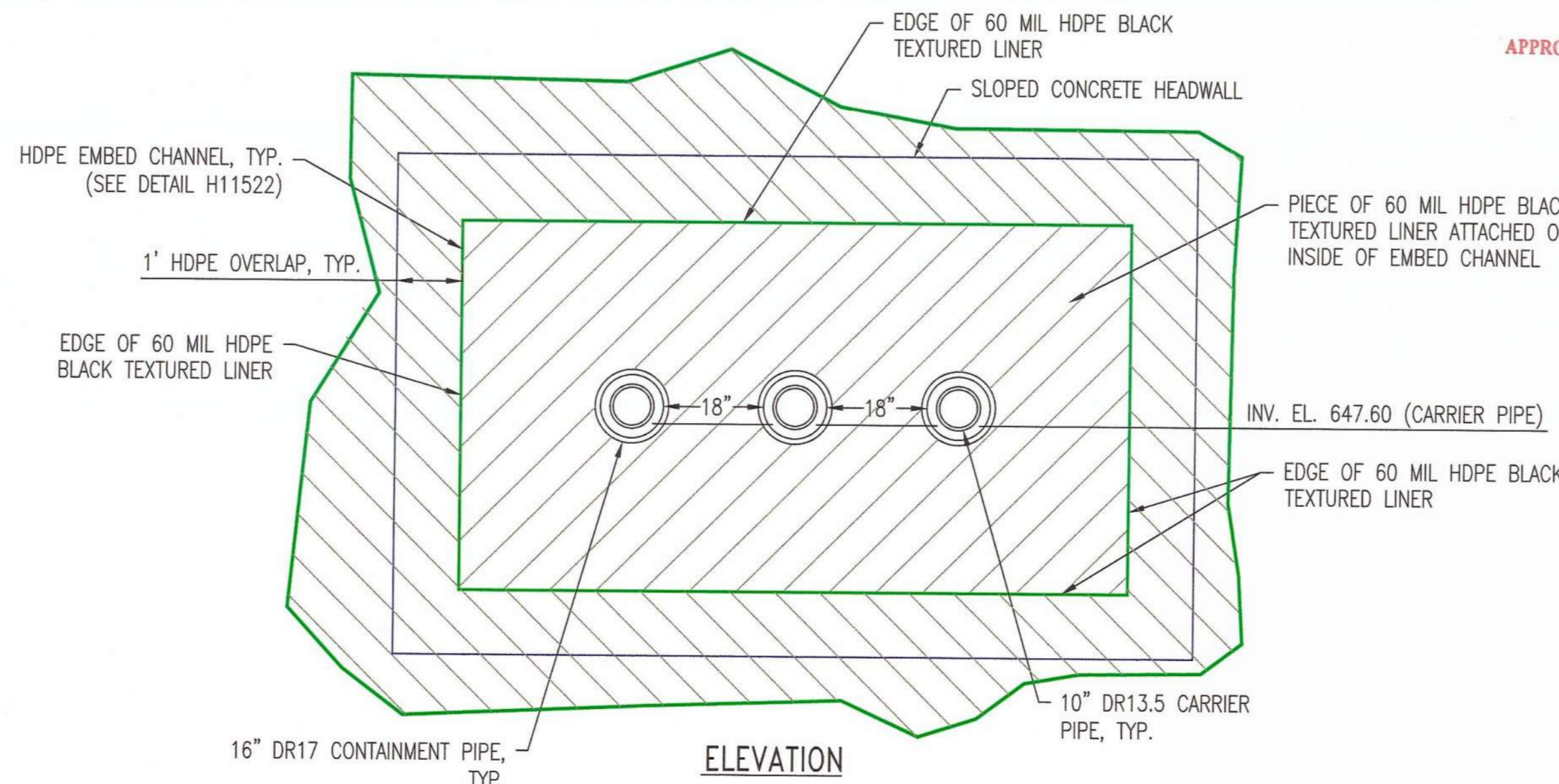


LEACHATE COLLECTOR PIPE JUNCTION DETAIL

NOT TO SCALE (H9134, H11525)



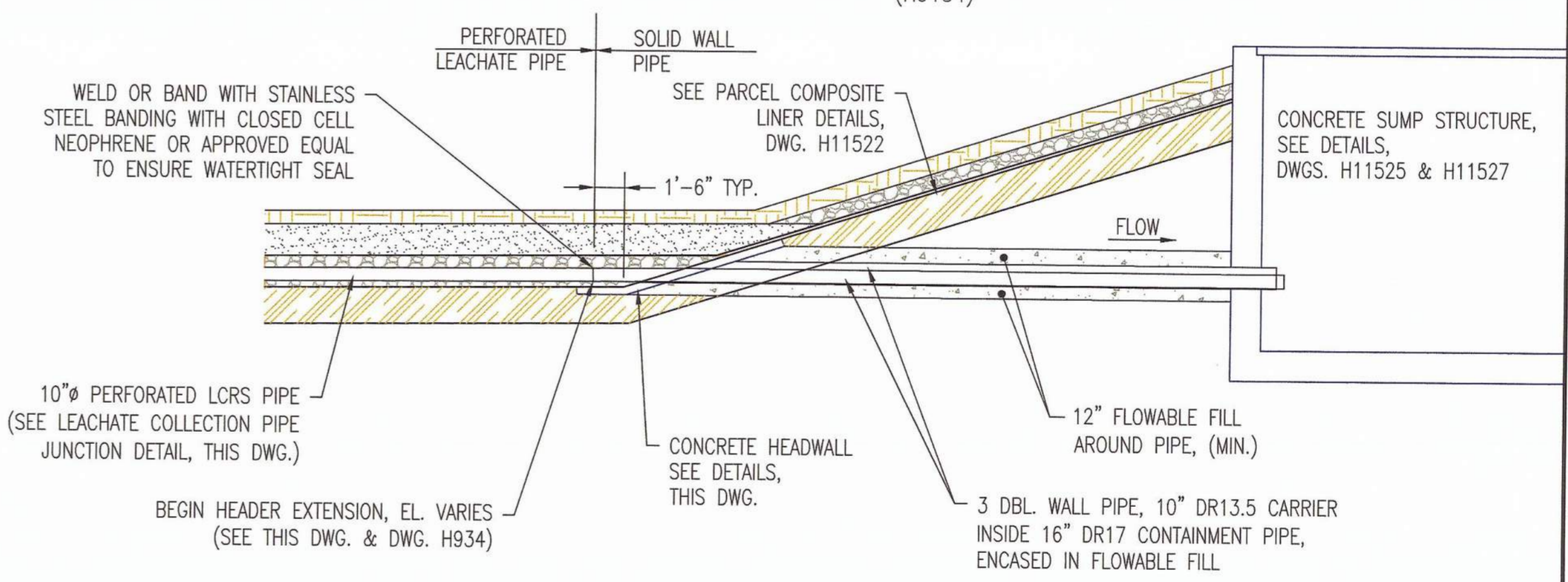
SECTION VIEW



LEACHATE COLLECTION PIPE HEADWALL DETAIL

NOT TO SCALE (H9134, H11525, THIS DWG.)

GEORGIA Environmental Protection Division Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-0222(L11)
APPROVED BY: *R. Naji* DATE: 1/15/2014



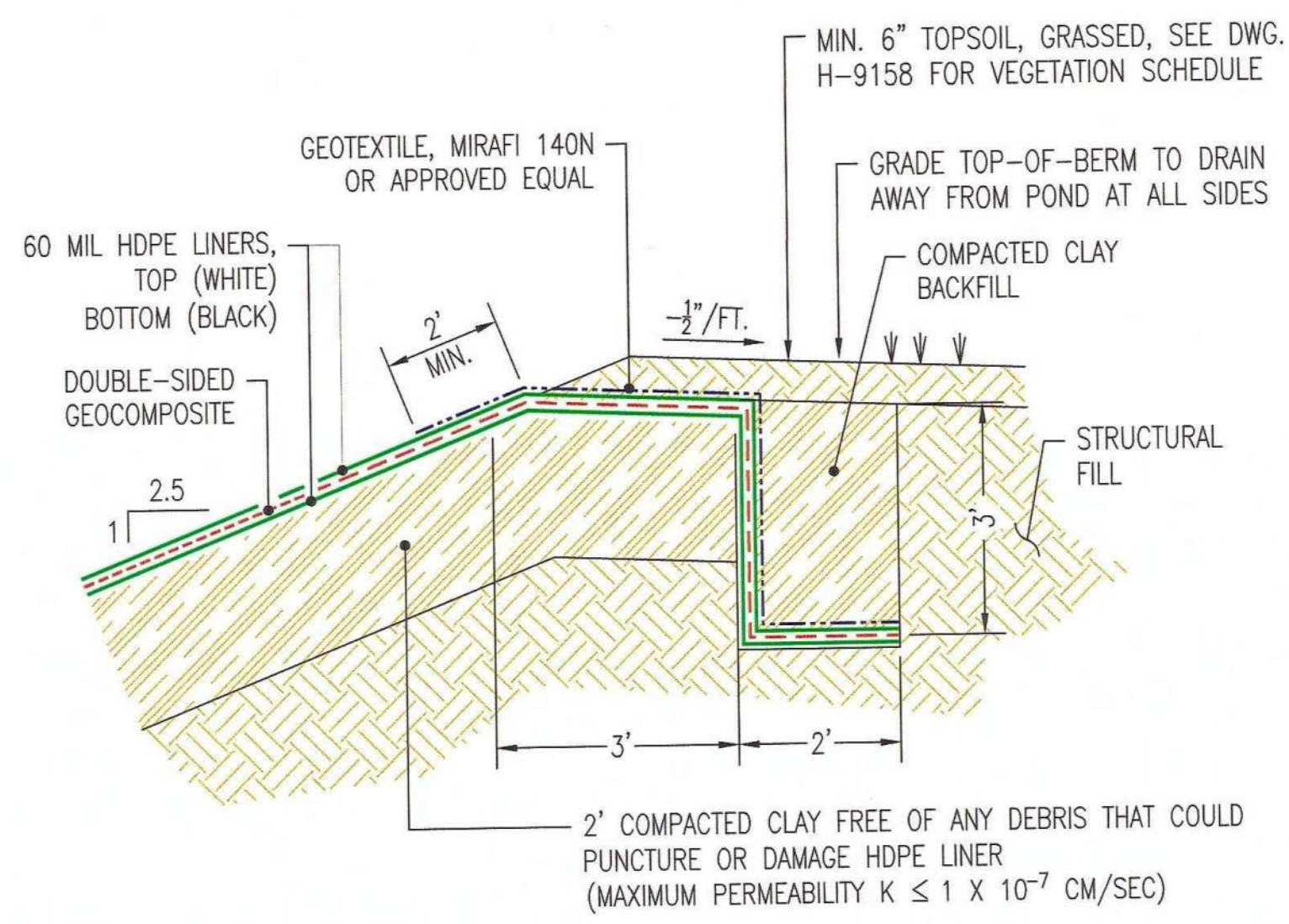
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) OUTLET PIPE SECTION

NOT TO SCALE (H9134, H11525, H11527)

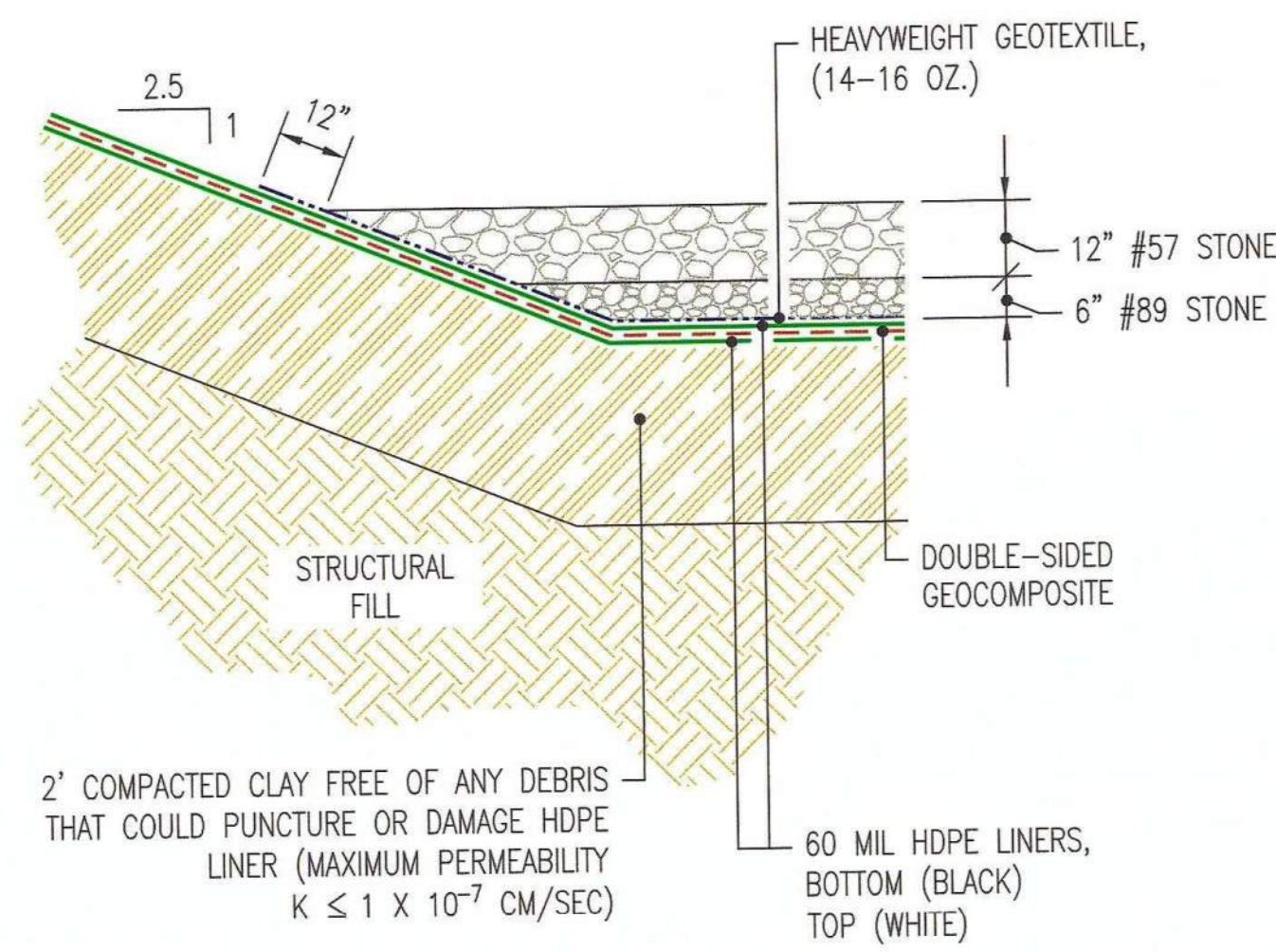
REFERENCES:
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

REVISION		DATE		REVISION		DATE	
				0		08/19/2013	
ISSUED FOR MINOR MODIFICATION							
REV. D OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COAL DISPOSAL FACILITY, WAS SEALED BY GARY H. MONROE, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687							
MWO: GPC232851.55,56,58				HAMMOND UNITS 1-4 MATS PROJECT			
GPC232870.74,76,77							
BY	CHK'D	CIVL APPR	ELECT APPR	V/C APPR	MECH APPR	MGR APPR	
CRU	GHM	MHL	LHB			KAM	
Southern Company Services, Inc. FOR							
GEORGIA POWER COMPANY							
PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A & B GRADING, DRAINAGE AND COVER DETAILS							
SCALE	PROJ. LD.	DRAWING NUMBER	SH	CONTD	REV		
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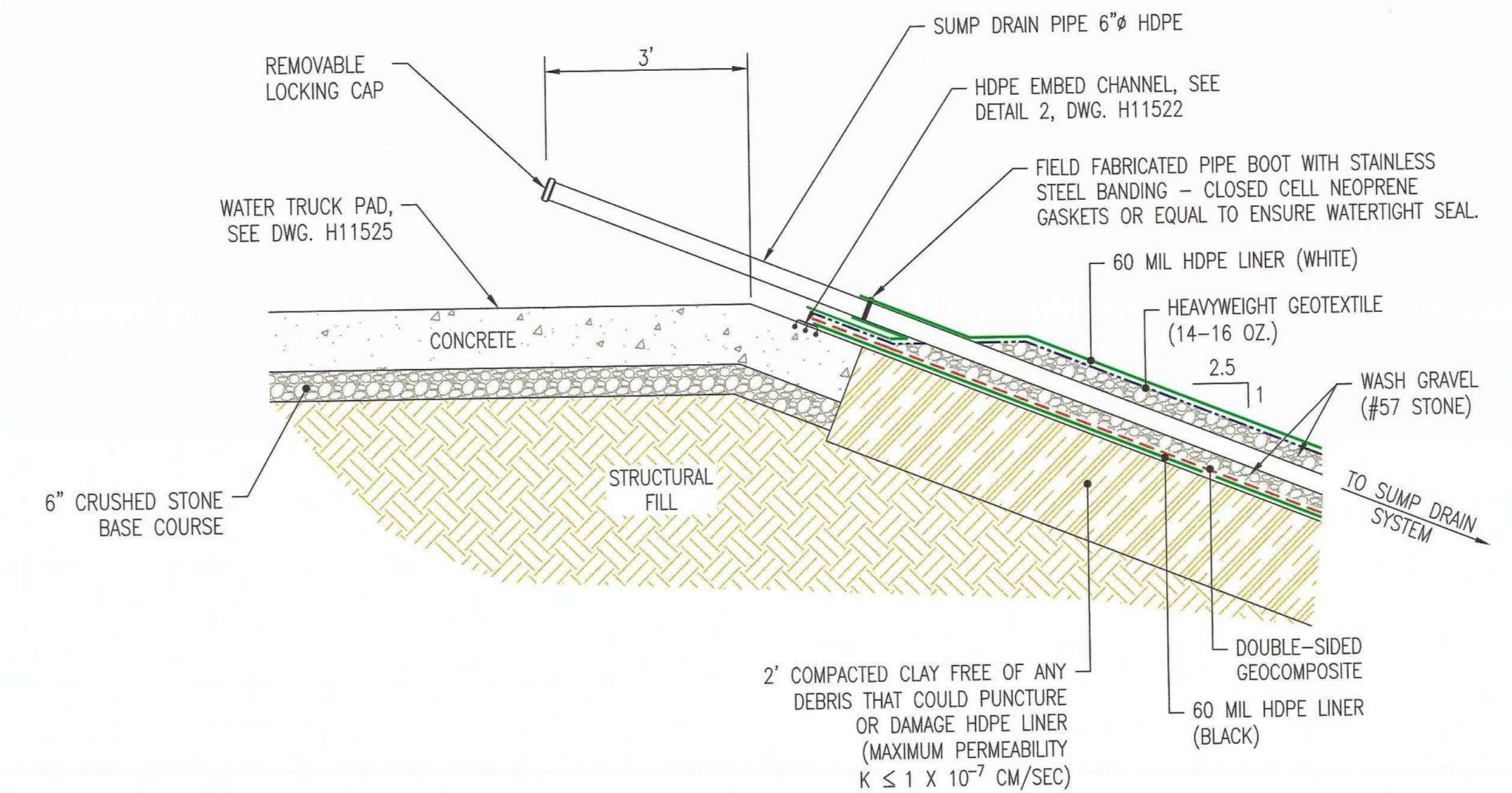




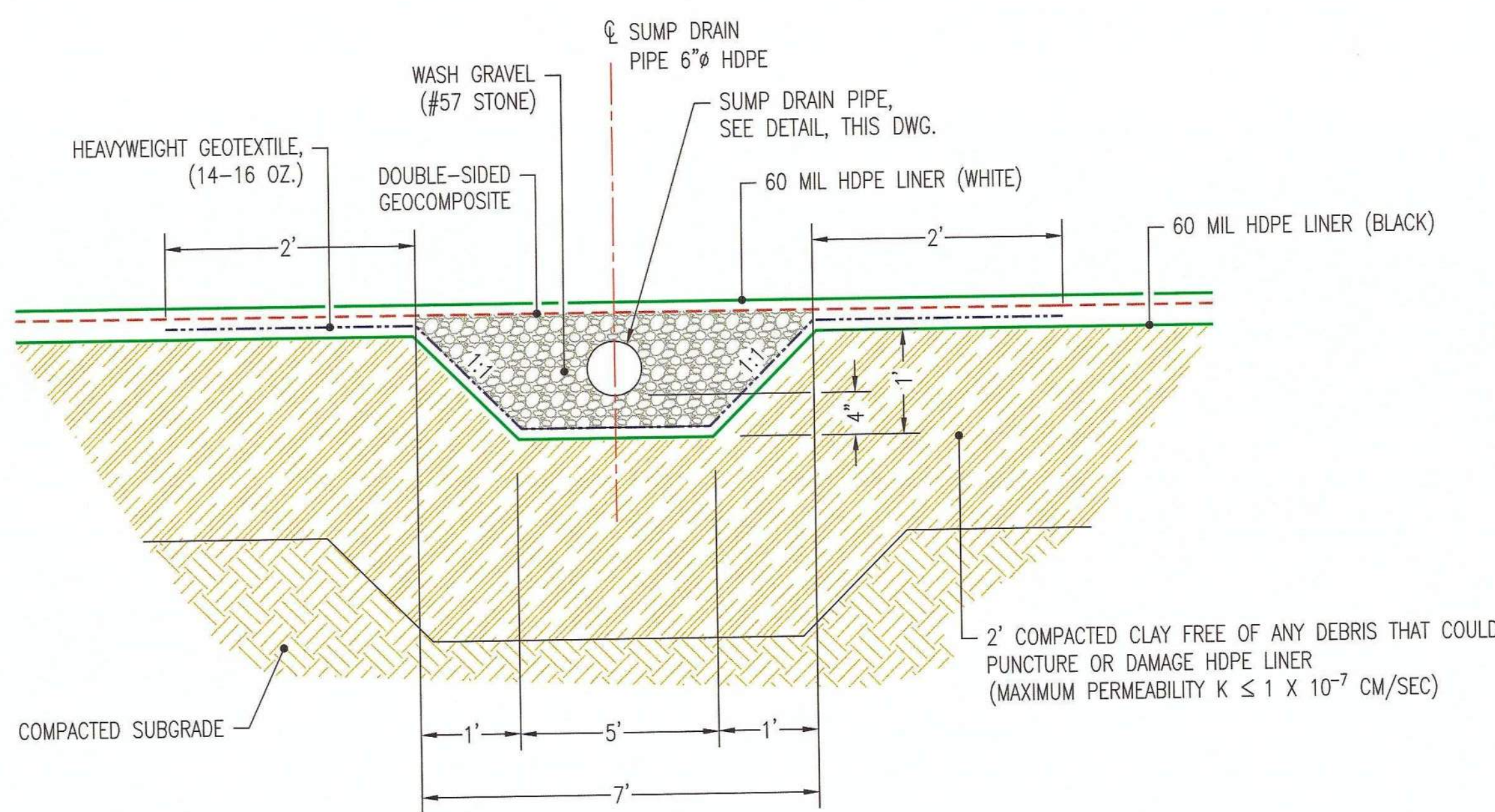
ANCHOR TRENCH DETAIL (LEACHATE POND)
NOT TO SCALE
(H9134, H9147, H11525)



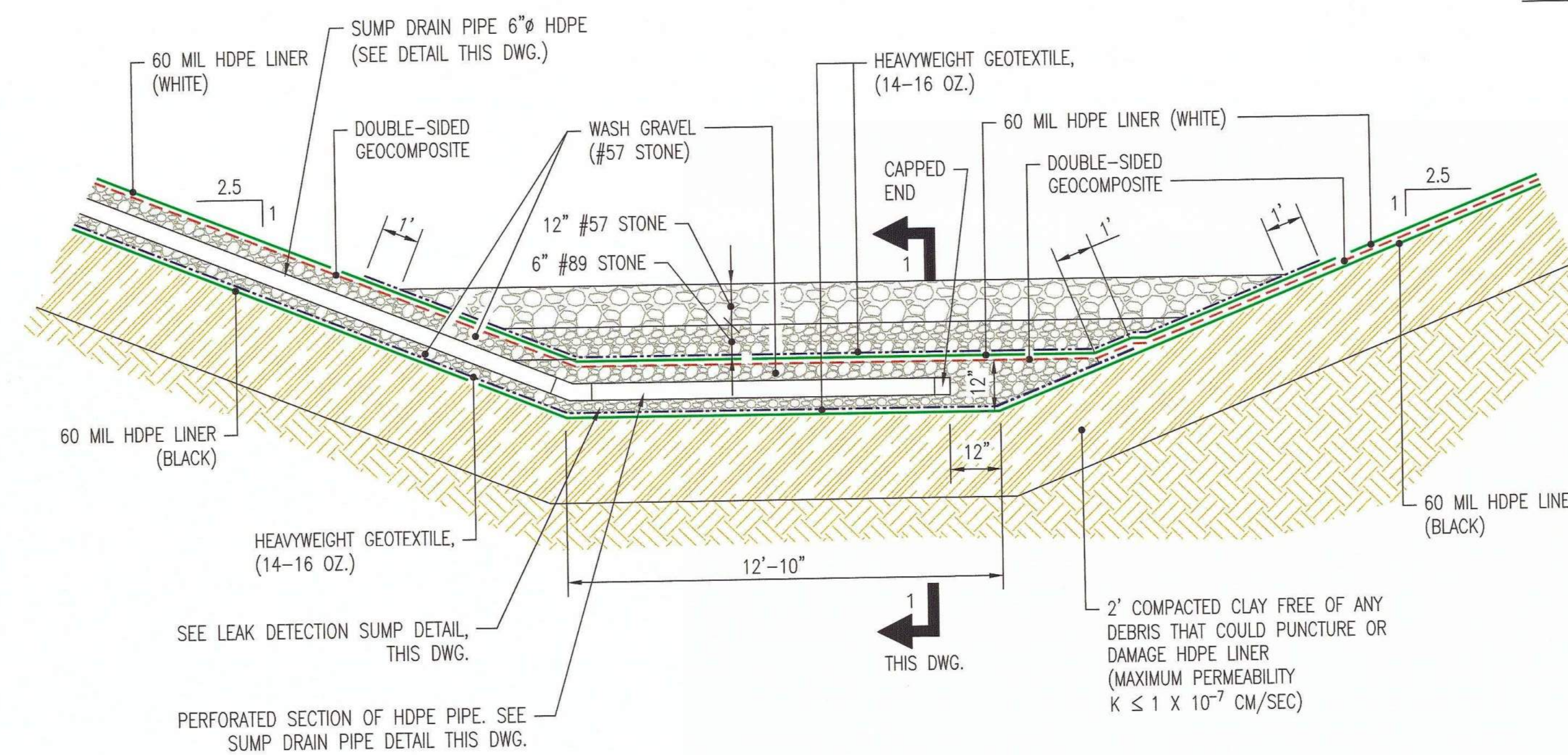
COMPOSITE LINER DETAIL (LEACHATE POND)
NOT TO SCALE
(H9134, H9147, H11525)



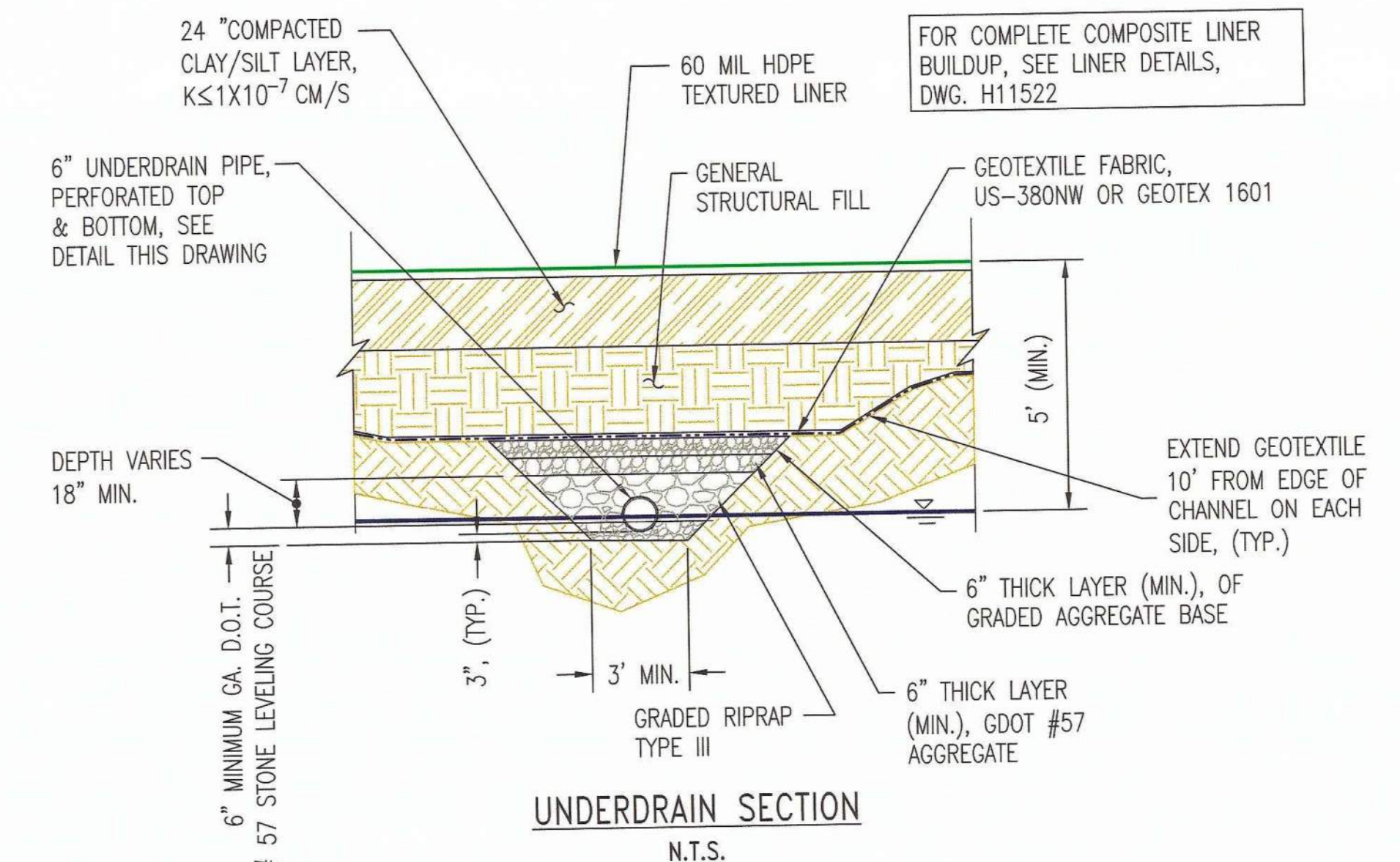
TYPICAL POND ANCHOR TRENCH WITH SUMP RISER PIPE DETAIL (LEACHATE POND)
NOT TO SCALE
(H9134, H11525, THIS DWG.)



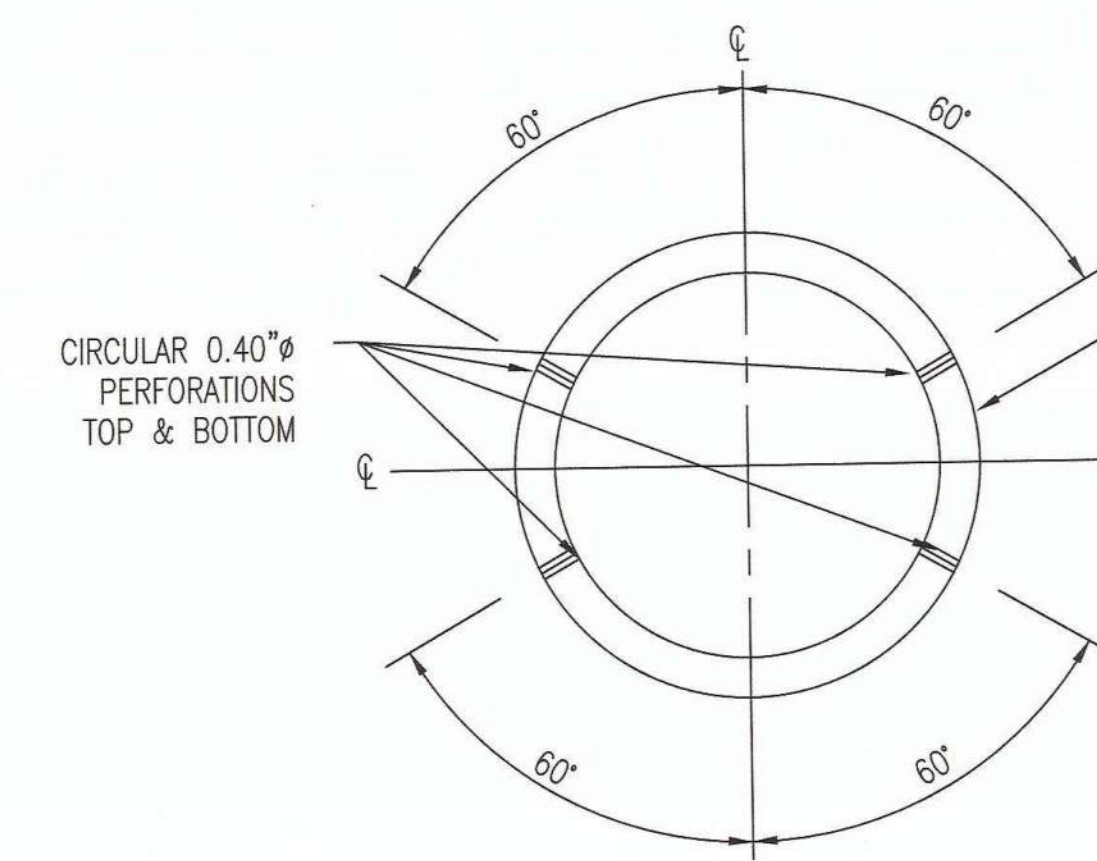
SECTION 1-1 LEAK DETECTION SUMP DETAIL (LEACHATE POND)
NOT TO SCALE
(H9134, H11525, THIS DWG.)



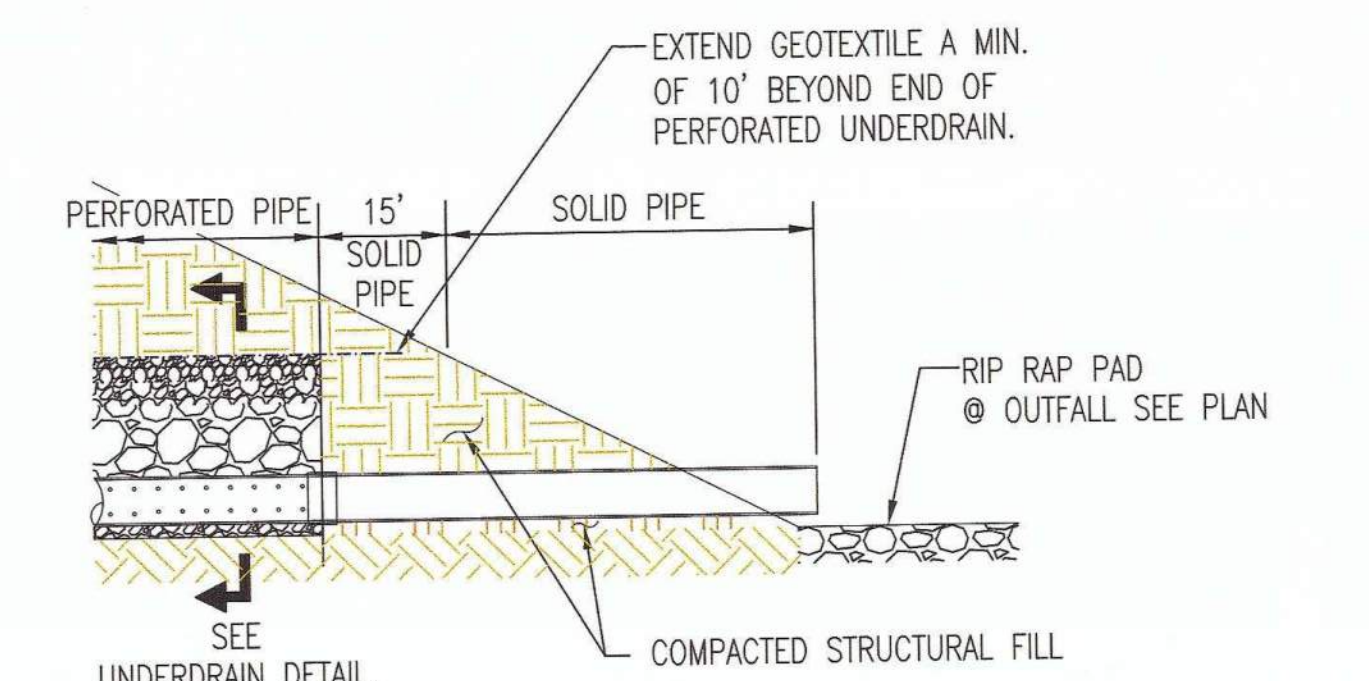
TYPICAL LEAKAGE DETECTION SUMP DETAIL (LEACHATE POND)
NOT TO SCALE
(H9134, H11525, THIS DWG.)



UNDERDRAIN SECTION
N.T.S.

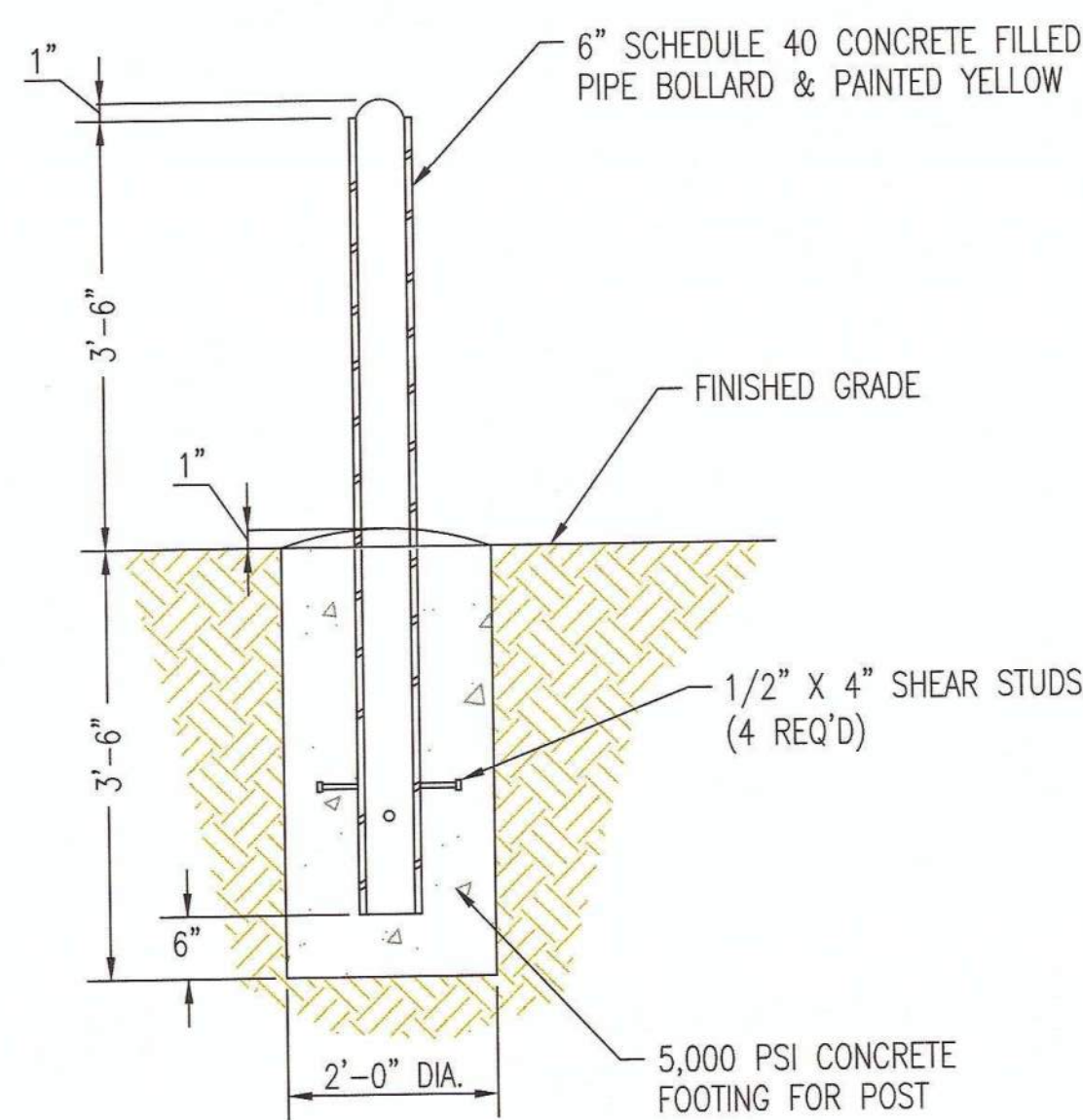


PERFORATED PIPE DETAIL FOR UNDERDRAIN
N.T.S.

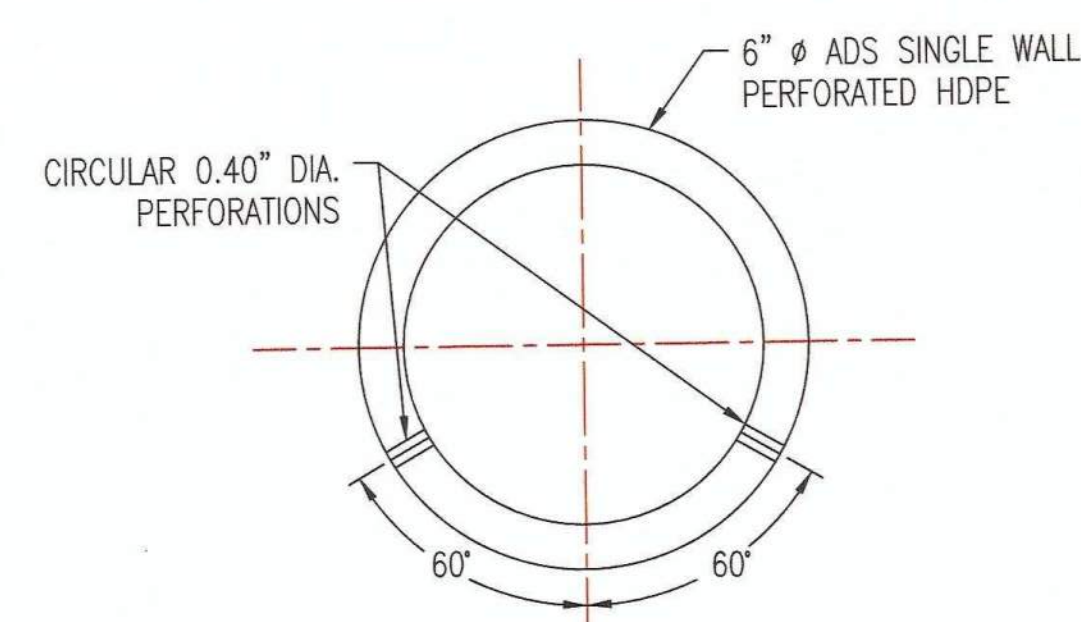


UNDERDRAIN OUTLET DETAIL
N.T.S.

UNDERDRAIN DETAILS FOR SEEP IN PARCEL
N.T.S.

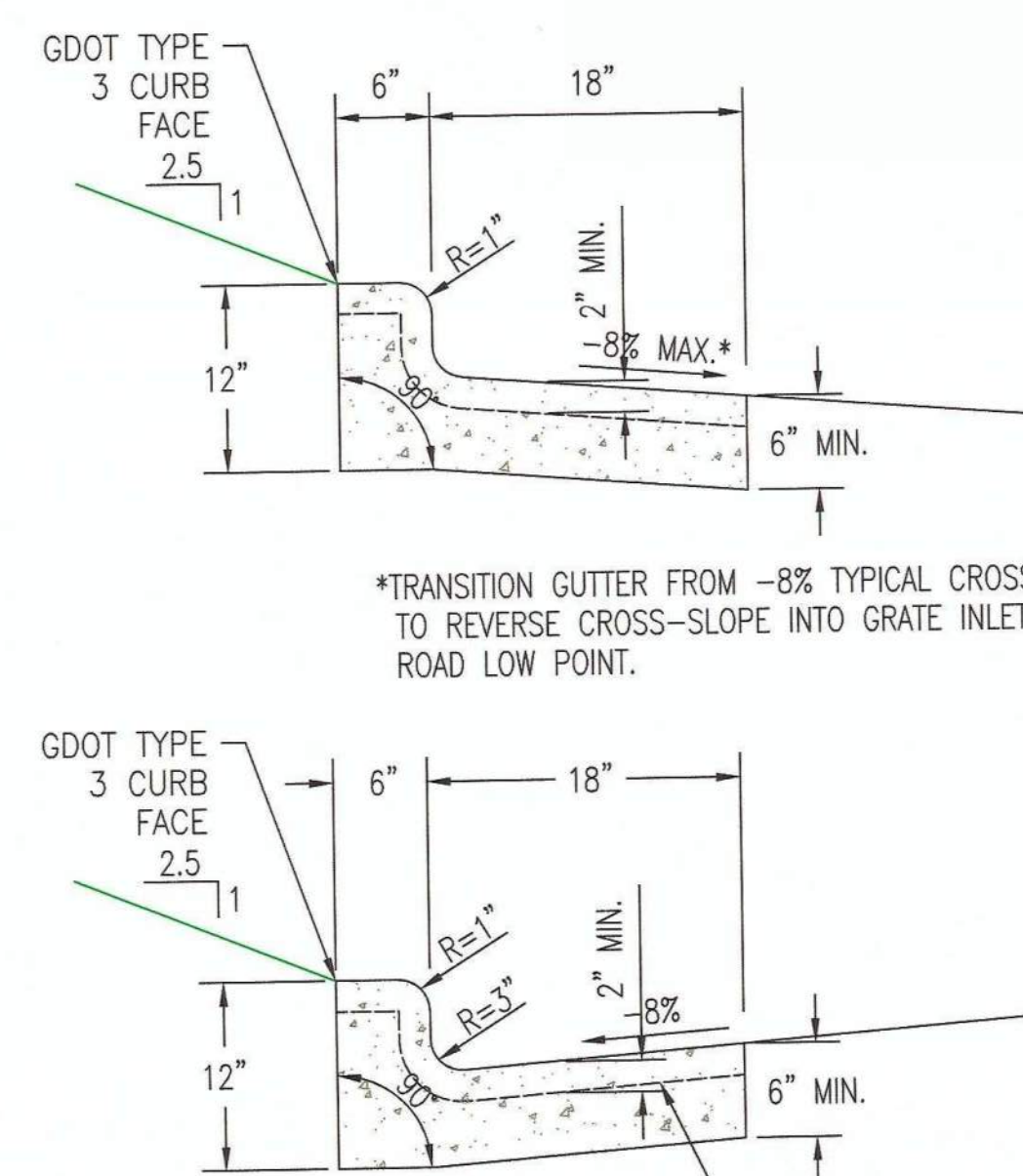


BOLLARD DETAIL
NOT TO SCALE
(H11525, THIS DWG.)



NOTE: AASHTO CLASS 1 PERFORATION FOR 6" PIPE-6 ROWS OF PERFORATIONS REQ'D PER FT-OF-PIPE (TOTAL 24 PER FT OF PIPE. EACH PERFORATION 0.4" CIRCULAR.)

SUMP DRAIN PIPE DETAIL
NOT TO SCALE
(THIS DWG.)



2' CURB & GUTTER DETAIL
NOT TO SCALE
(H11525)

GEORGIA Environmental Protection Division Solid Waste Management Program

MINOR MODIFICATION APPROVAL

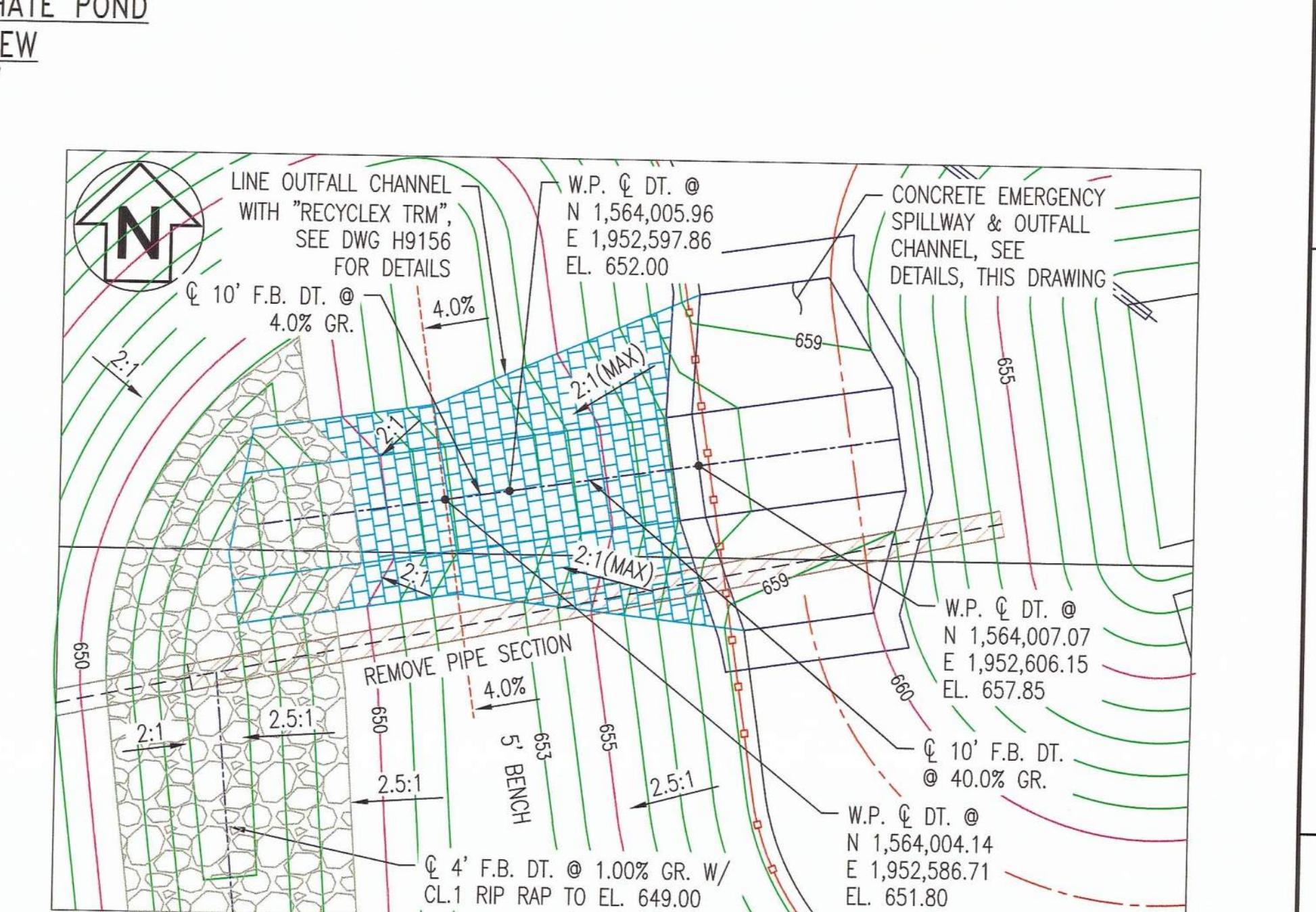
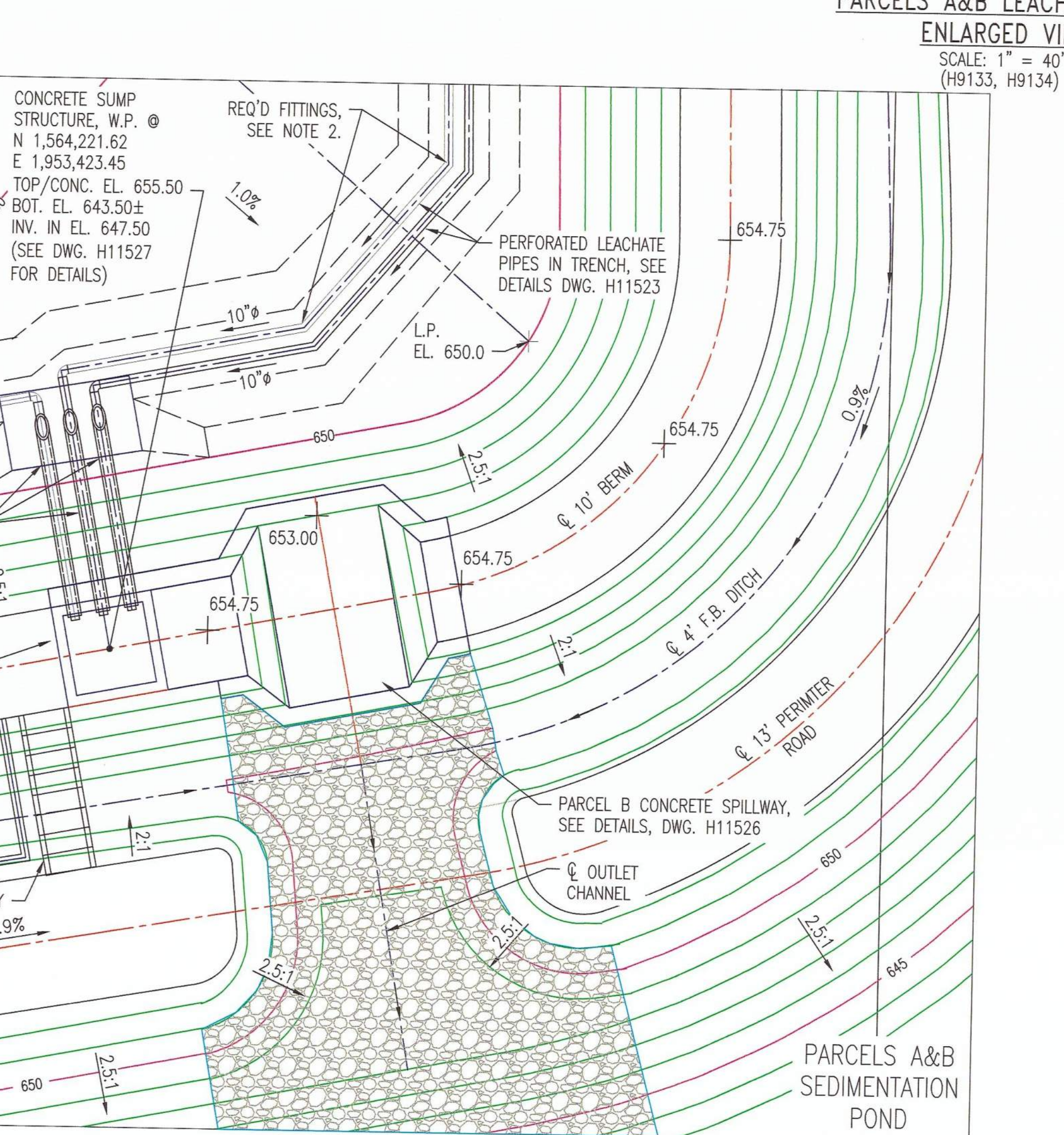
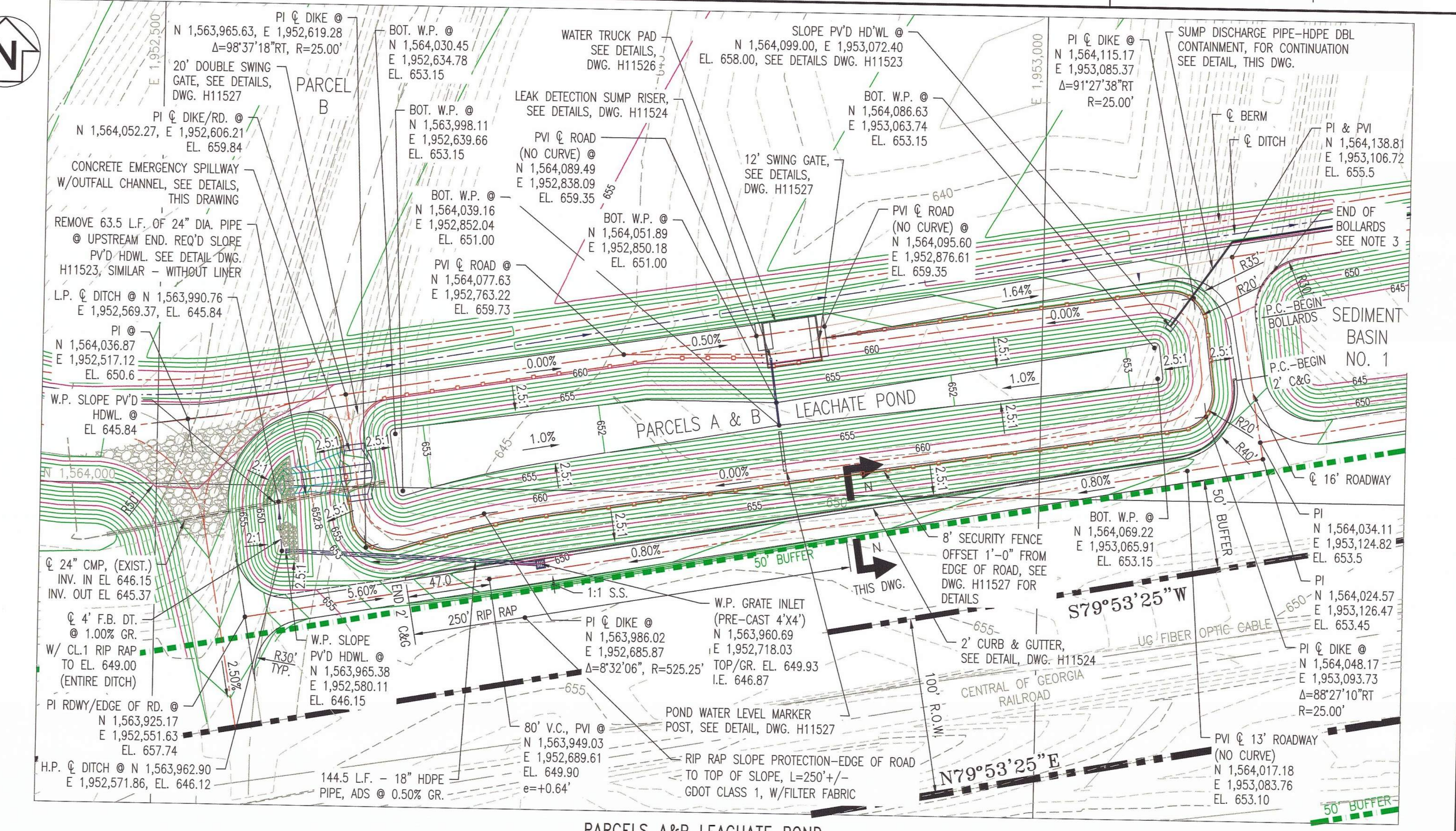
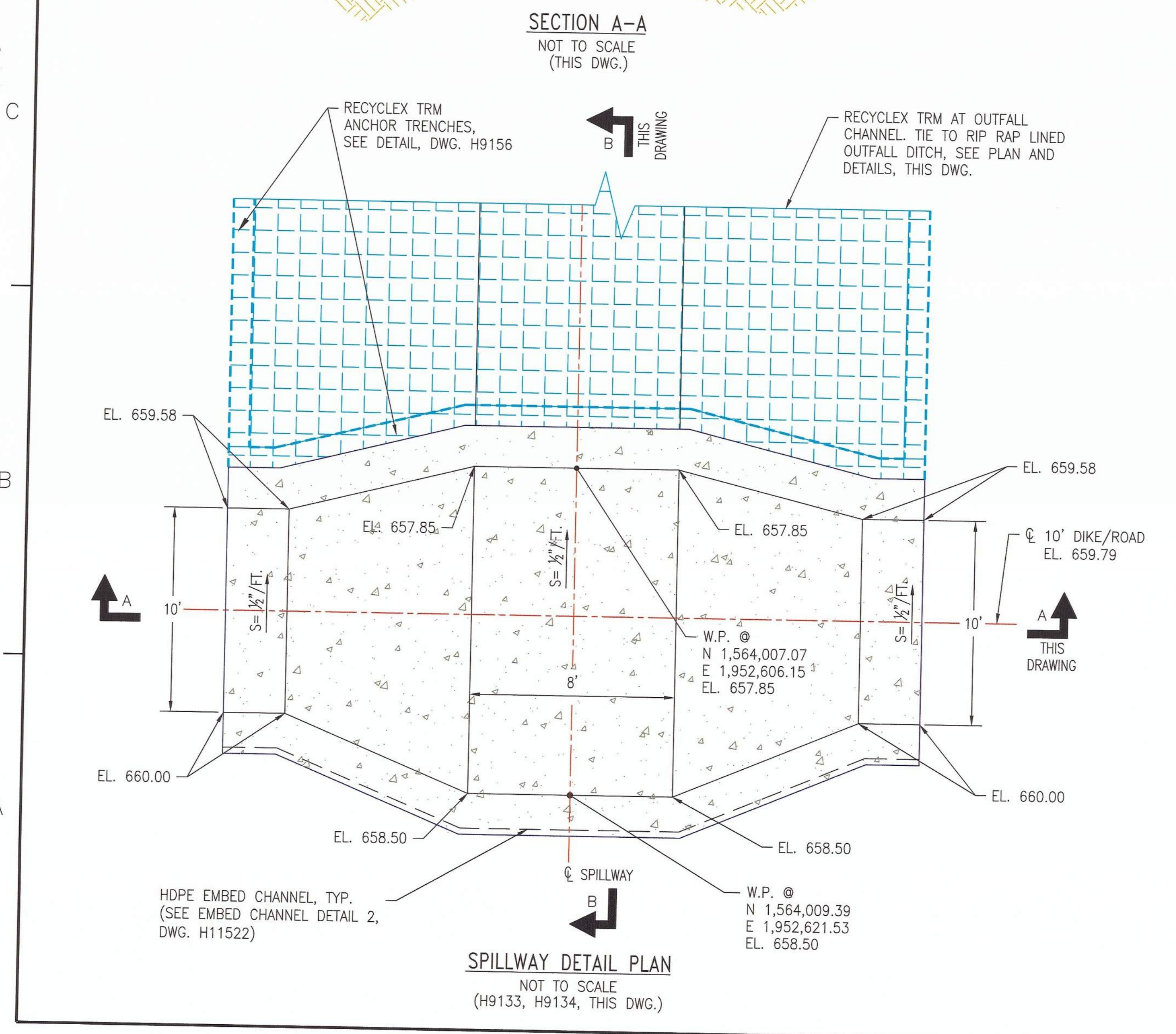
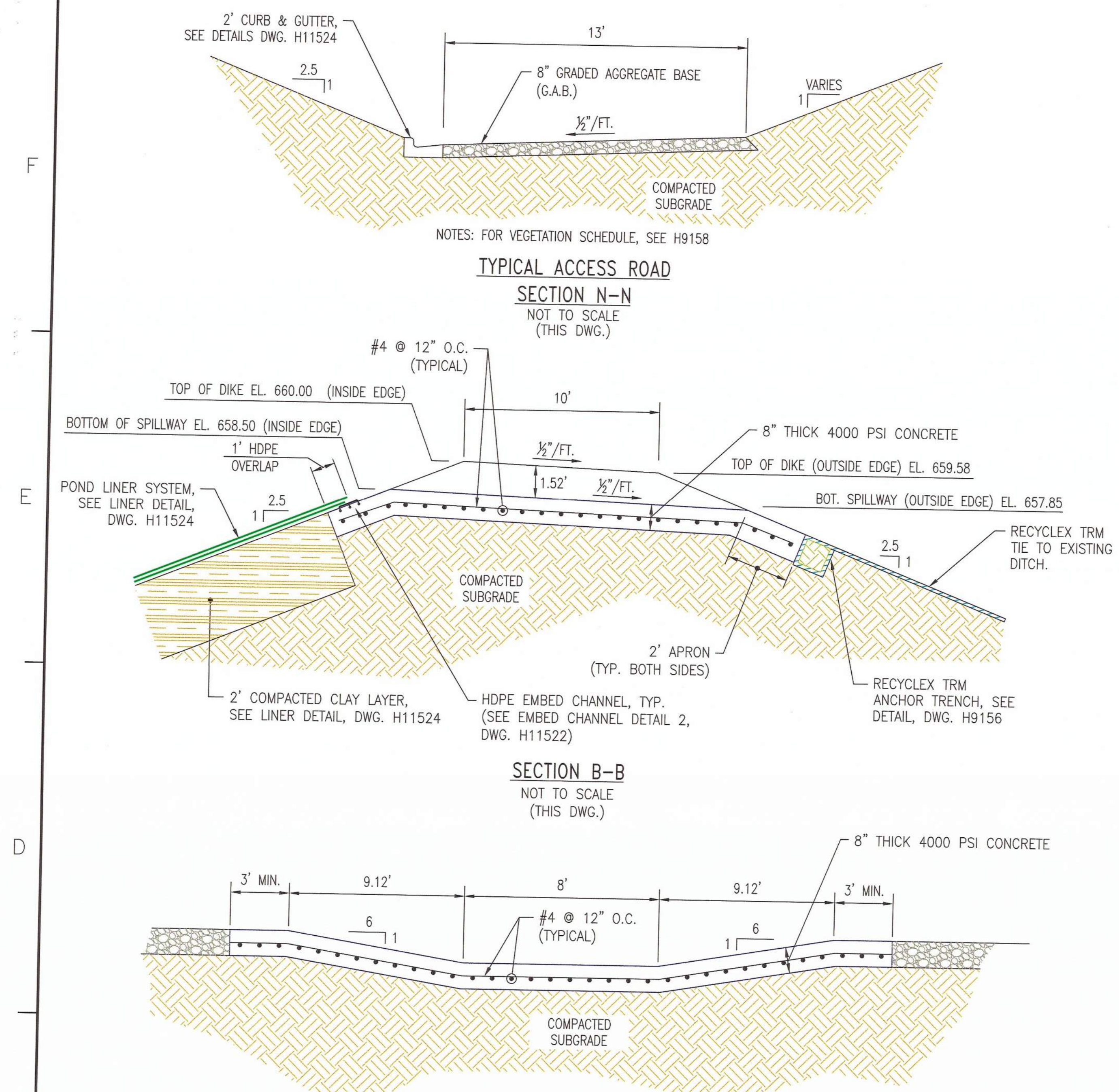
SOLID WASTE PERMIT NO. 257,922 D(L1)

APPROVED BY: R. Naji DATE: 11/5/2014

REFERENCES:
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.



REVISION		DATE		REVISION		DATE		Southern Company Services, Inc. FOR			
				0		02/21/2014		GEORGIA POWER COMPANY			
ISSUED FOR MINOR MODIFICATION								PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A & B SECTIONS AND DETAILS			
REV. 0 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWHORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012887.								SCALE			
MWO: GPC232851,55,56,58 HAMMOND UNITS 1-4 MATS PROJECT GPC232870,74,76,77								PROJ. I.D.			
BY: CRU, GHM, MHL, LHB								DRAWING NUMBER			
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NOTES:

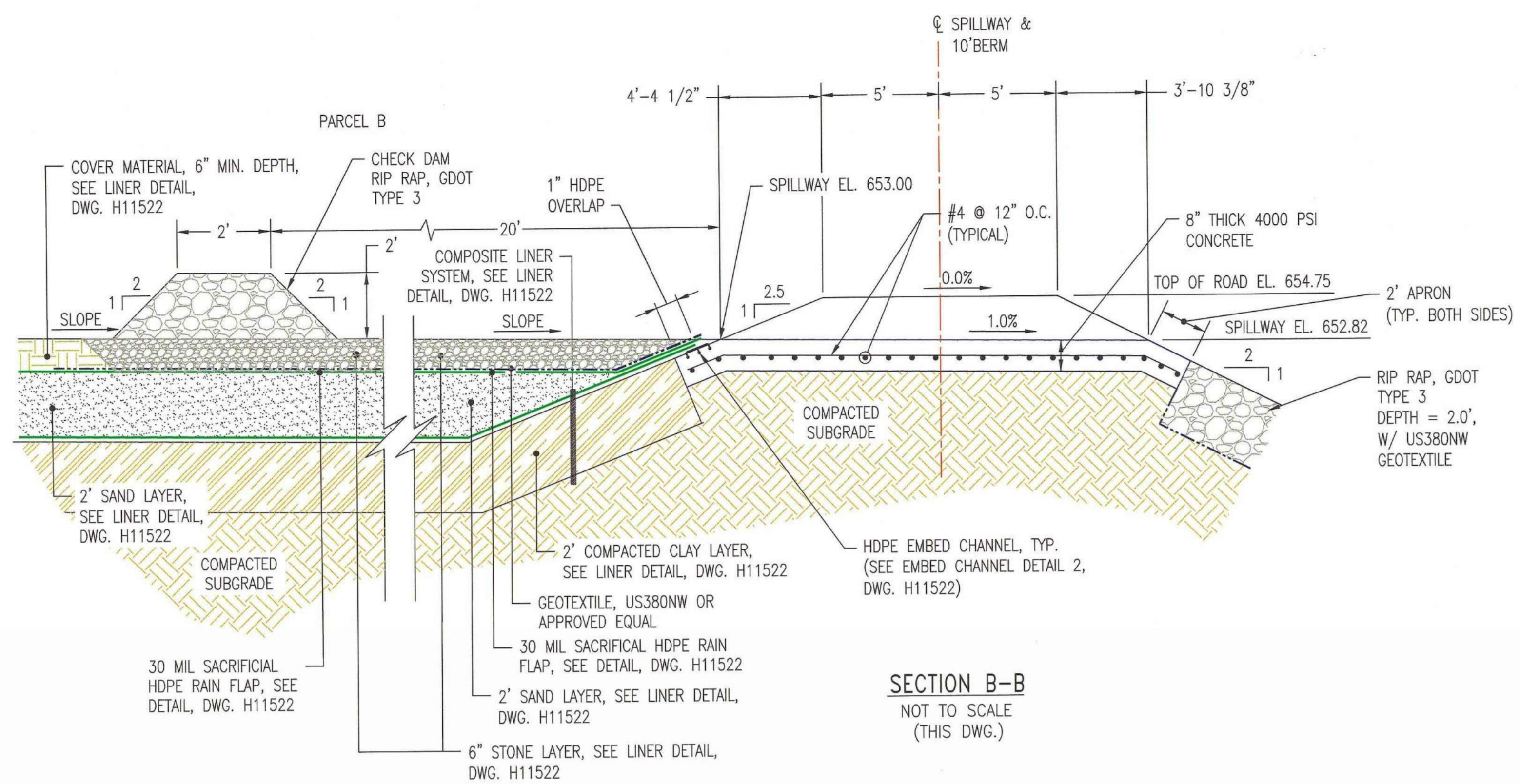
- PIPE FROM SUMP PUMPS TO LEACHATE POND TO BE BURIED AND DOUBLE CONTAINMENT.
- CONTRACTOR SHALL USE A COMBINATION OF TEE'S AND OTHER FITTINGS AS WELL AS ALLOWABLE PIPE/JUNCTION DEFLECTIONS AT PIPE INTERSECTIONS AND BENDS TO CONSTRUCT LCRS NETWORK SHOWN. PIPE SYSTEM SHALL BE A CONTIGUOUS NETWORK.
- BOLLARDS SPACED AT 4 FOOT C/C, BEGINNING AT PC OF TURNOUT AT EDGE OF ROAD. 8 TOTAL REQUIRED. SEE DETAIL DWG. H11524.

REFERENCES:

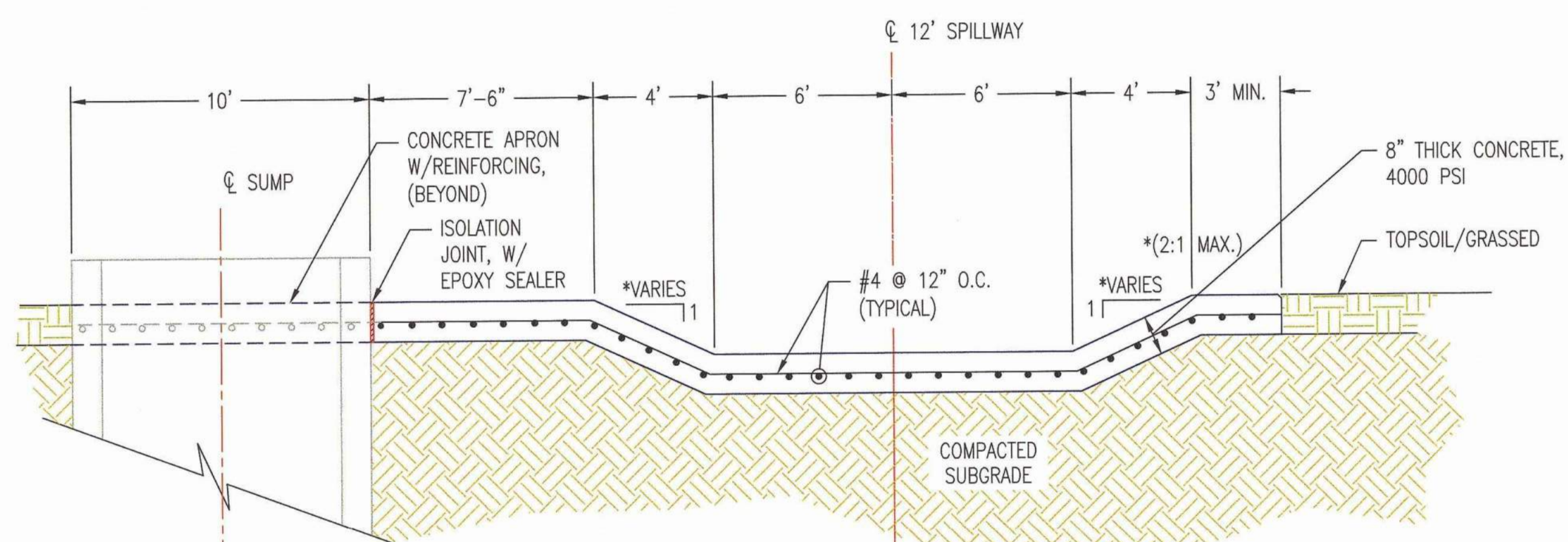
- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-022-D(LF)
APPROVED BY: *R. Naji* DATE: 4/15/2014

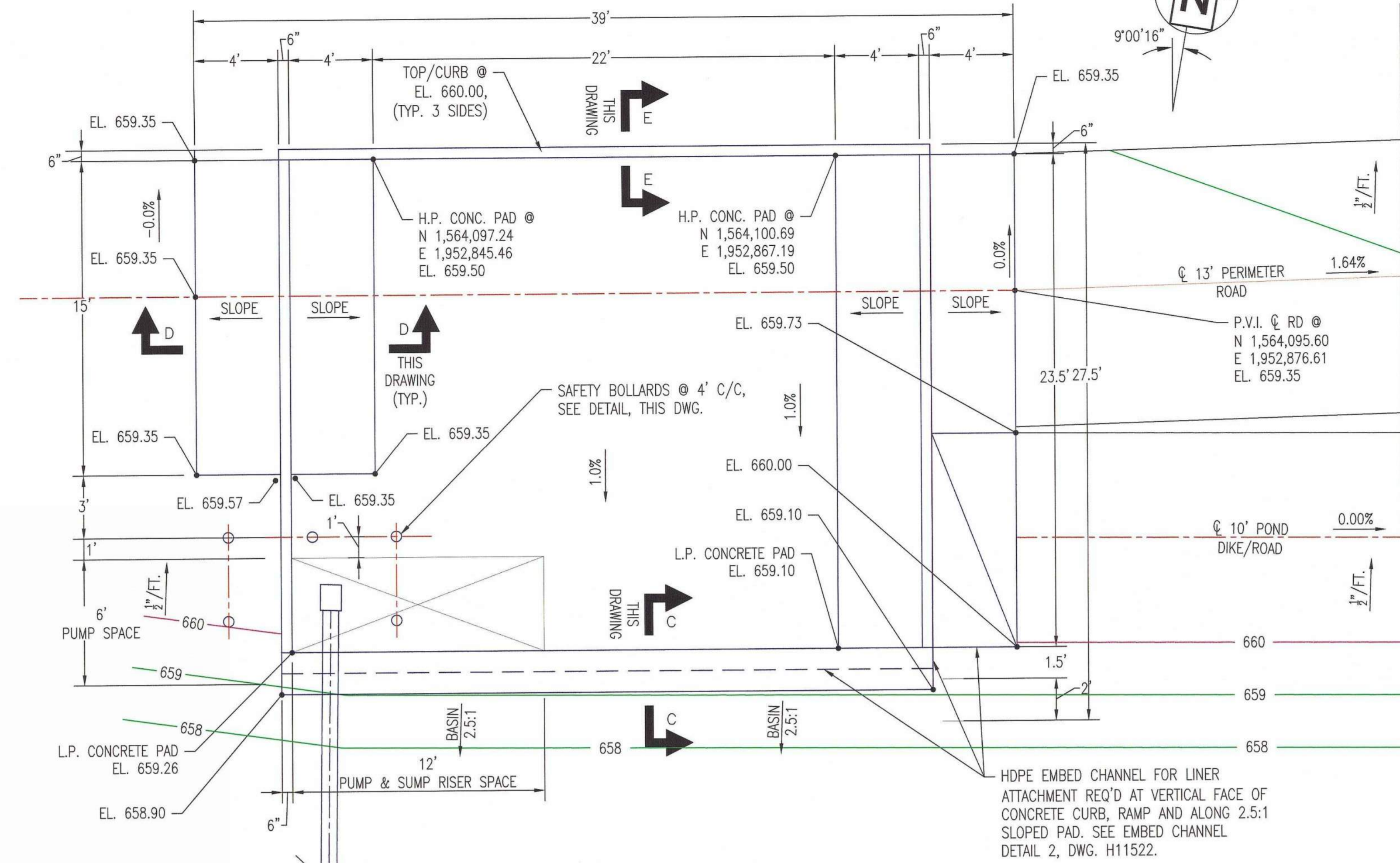
REVISION 0 DATE 02/21/2014 ISSUED FOR MINOR MODIFICATION (REV. 0 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COAL DISPOSAL FACILITY, WAS SEALED BY GARY H. MCKWORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PED12887) MWO: GPC232851,55,56,58 GPC232870,74,76,77 HAMMOND UNITS 1-4 MATS PROJECT		Southern Company Services, Inc. FOR GEORGIA POWER COMPANY PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A & B SECTIONS AND DETAILS	
BY: CRU CHK'D: GHM/MHL CIVIL APPR: LHB ELECT APPR: [] V/C APPR: [] MECH APPR: [] MGR APPR: []	BY: [] CHK'D: [] CIVIL APPR: [] ELECT APPR: [] V/C APPR: [] MECH APPR: [] MGR APPR: []	SCALE: NONE PROJ. ID.: [] DRAWING NUMBER: H11525 SH: 1 CONT'D: FINAL REV: 0	© Copyright, 2013, Southern Company Services, Inc. All Rights Reserved. No. 12687 PROFESSIONAL ENGINEER Gary H. McKworter State of Georgia



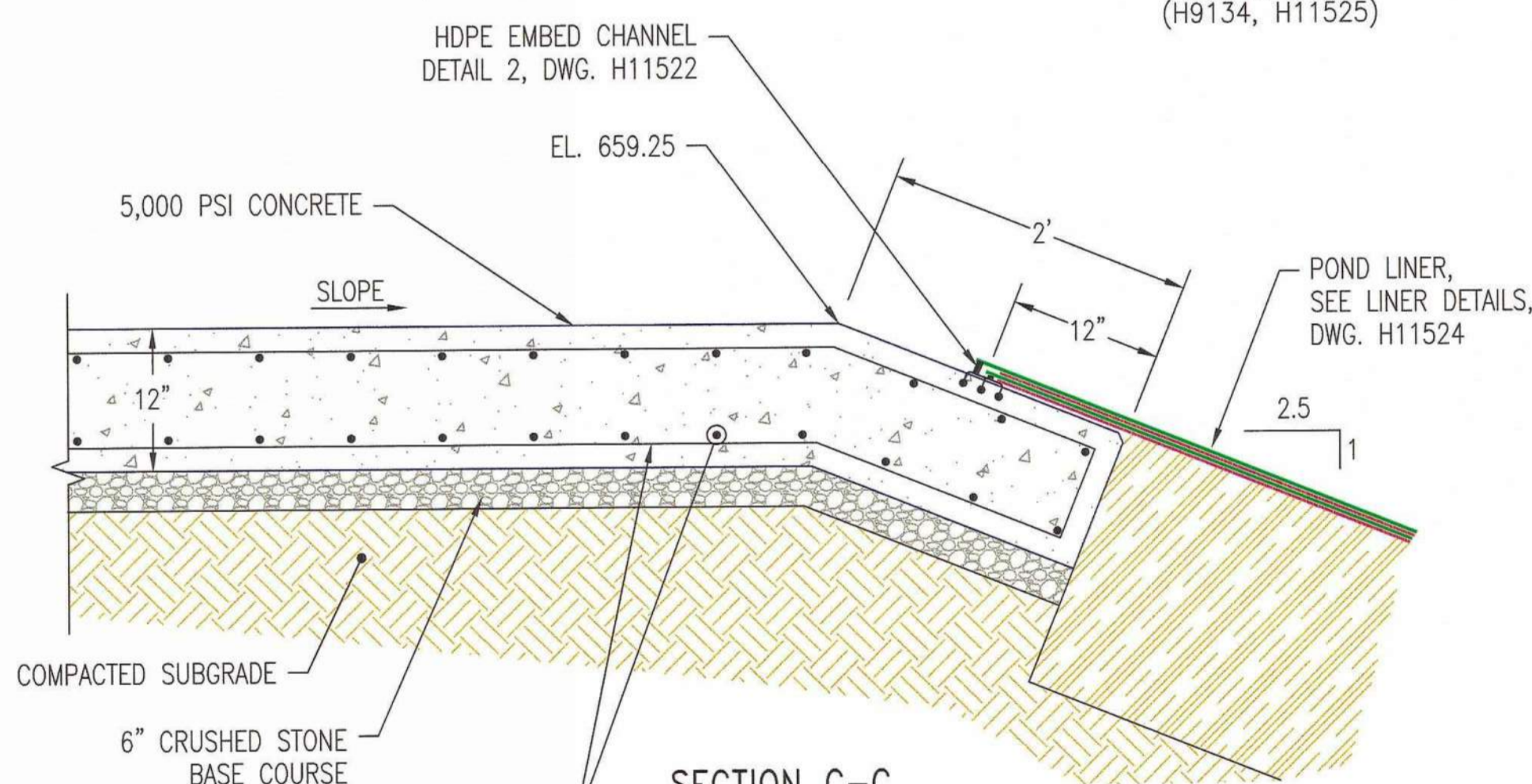
SECTION B-B
NOT TO SCALE
(THIS DWG.)



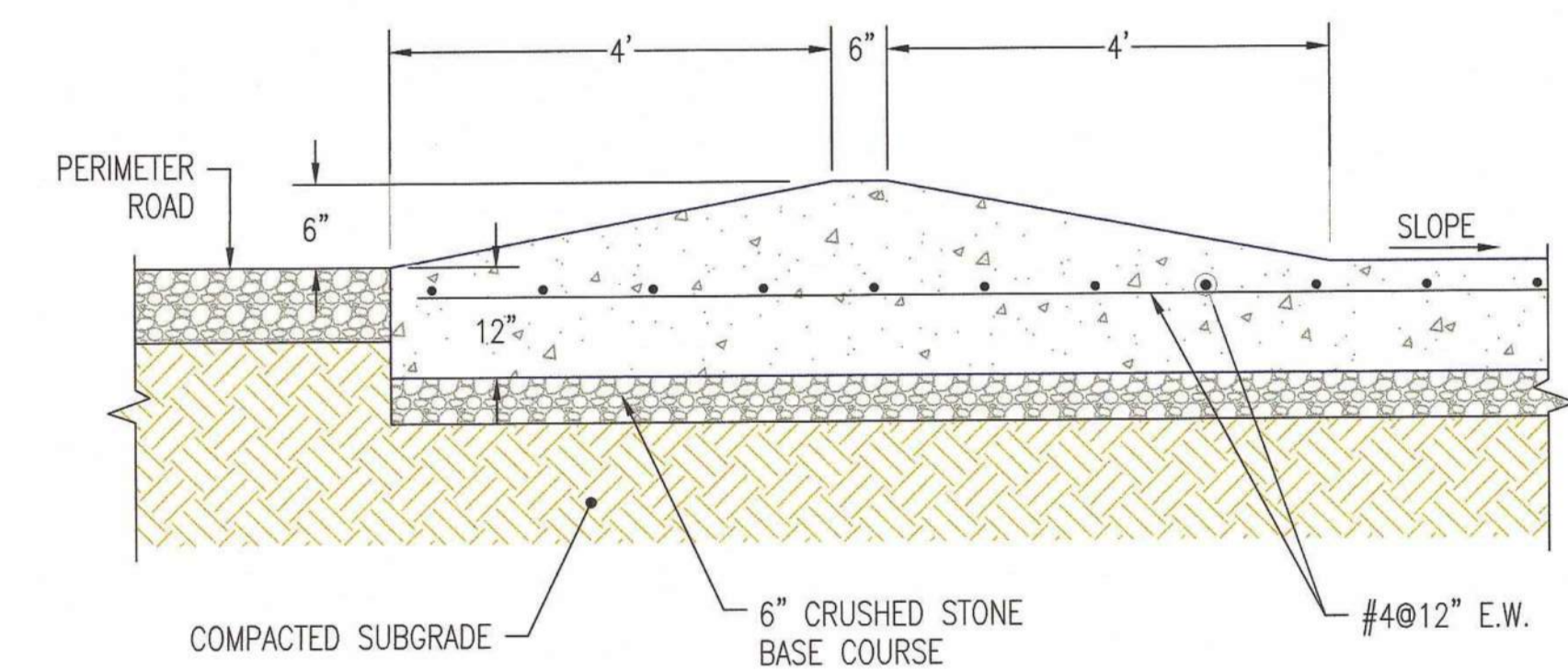
SECTION A-A
NOT TO SCALE
(THIS DWG.)



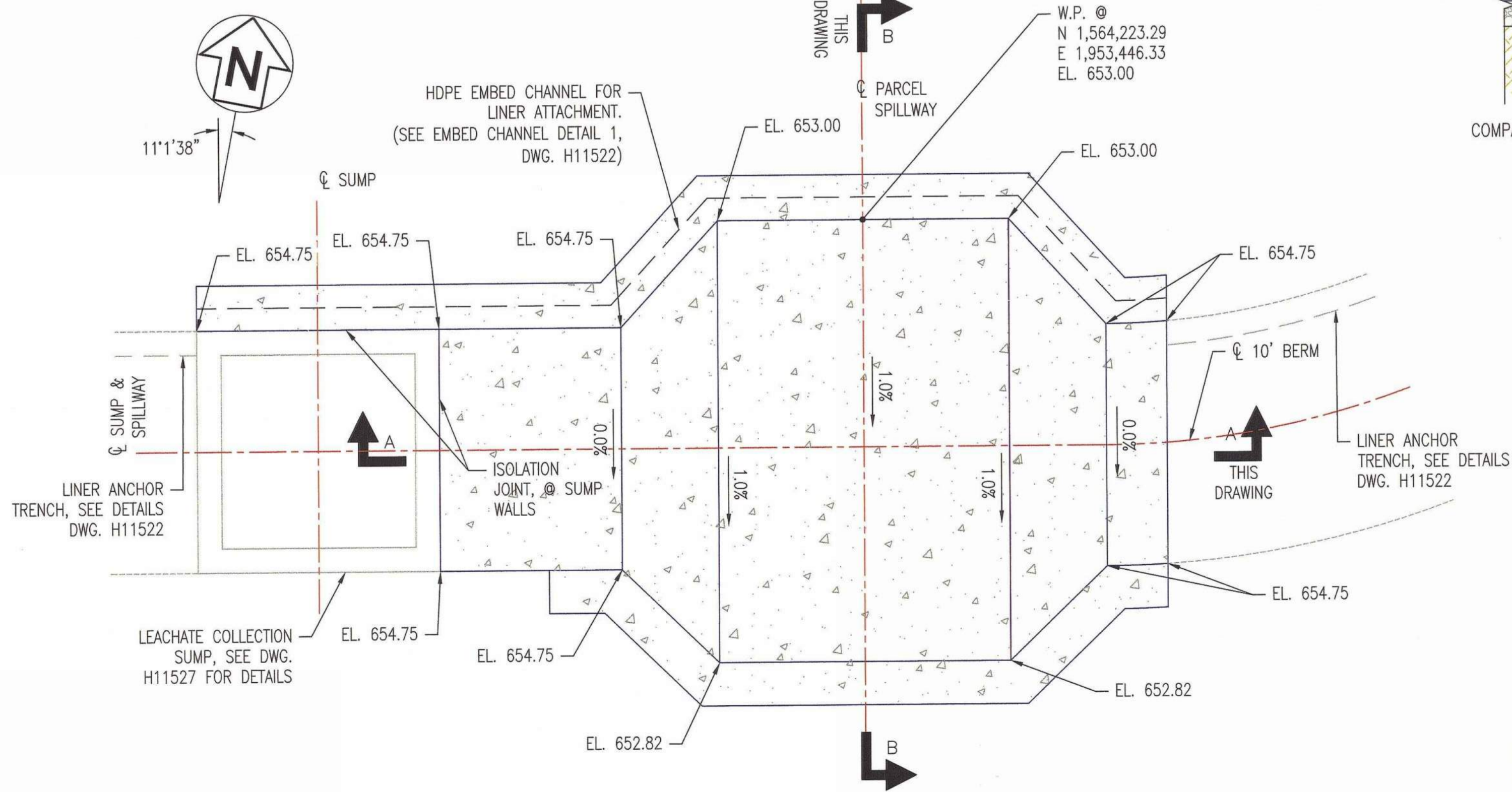
**WATER TRUCK PAD DETAIL PLAN
(LEACHATE POND)**
NOT TO SCALE
(H9134, H11525)



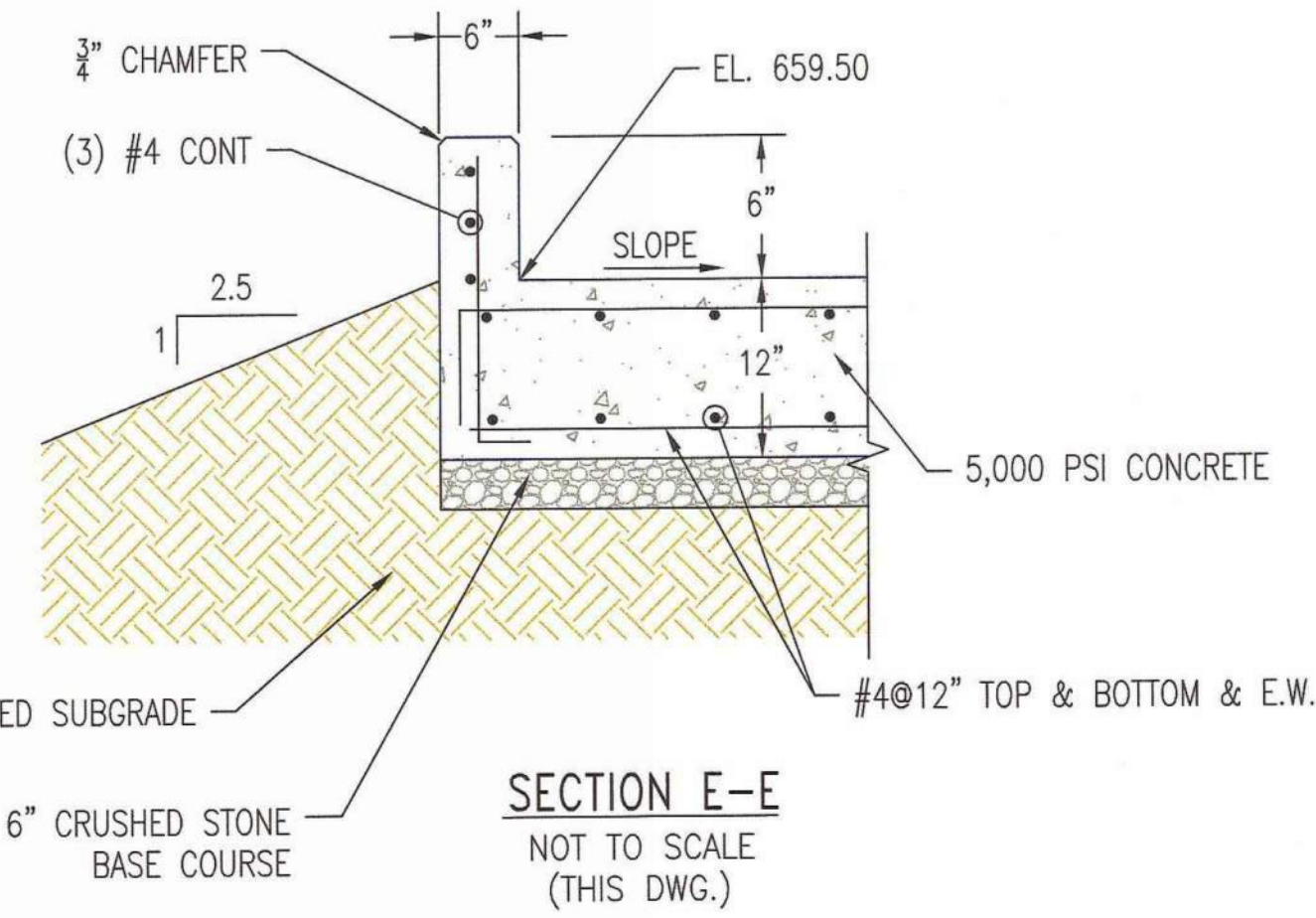
SECTION C-C
NOT TO SCALE
(THIS DWG.)



SECTION D-D
NOT TO SCALE
(THIS DWG.)



PARCEL B SPILLWAY DETAIL PLAN
NOT TO SCALE
(H9134, H11525)



SECTION E-E
NOT TO SCALE
(THIS DWG.)

NOTES:

1. OUTLET CHANNEL FROM SPILLWAY TO SEDIMENTATION BASIN #1 TO BE REGRADED AND LINED WITH RIP RAP. SEE DWG. H11525 FOR ENLARGED PLAN.

REFERENCES:

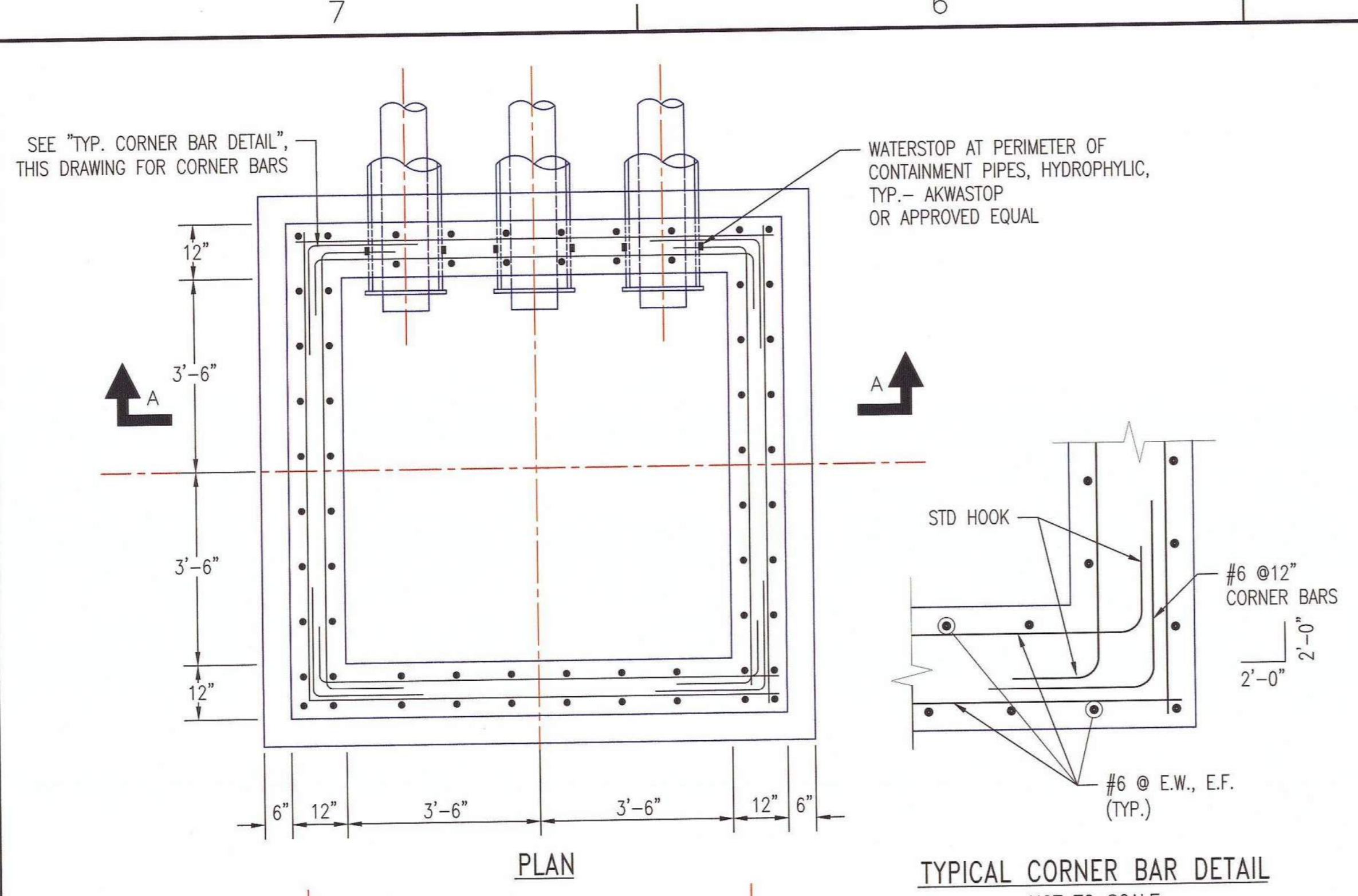
1. FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

GEORGIA
Environmental Protection Division
Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057.022D(L1)

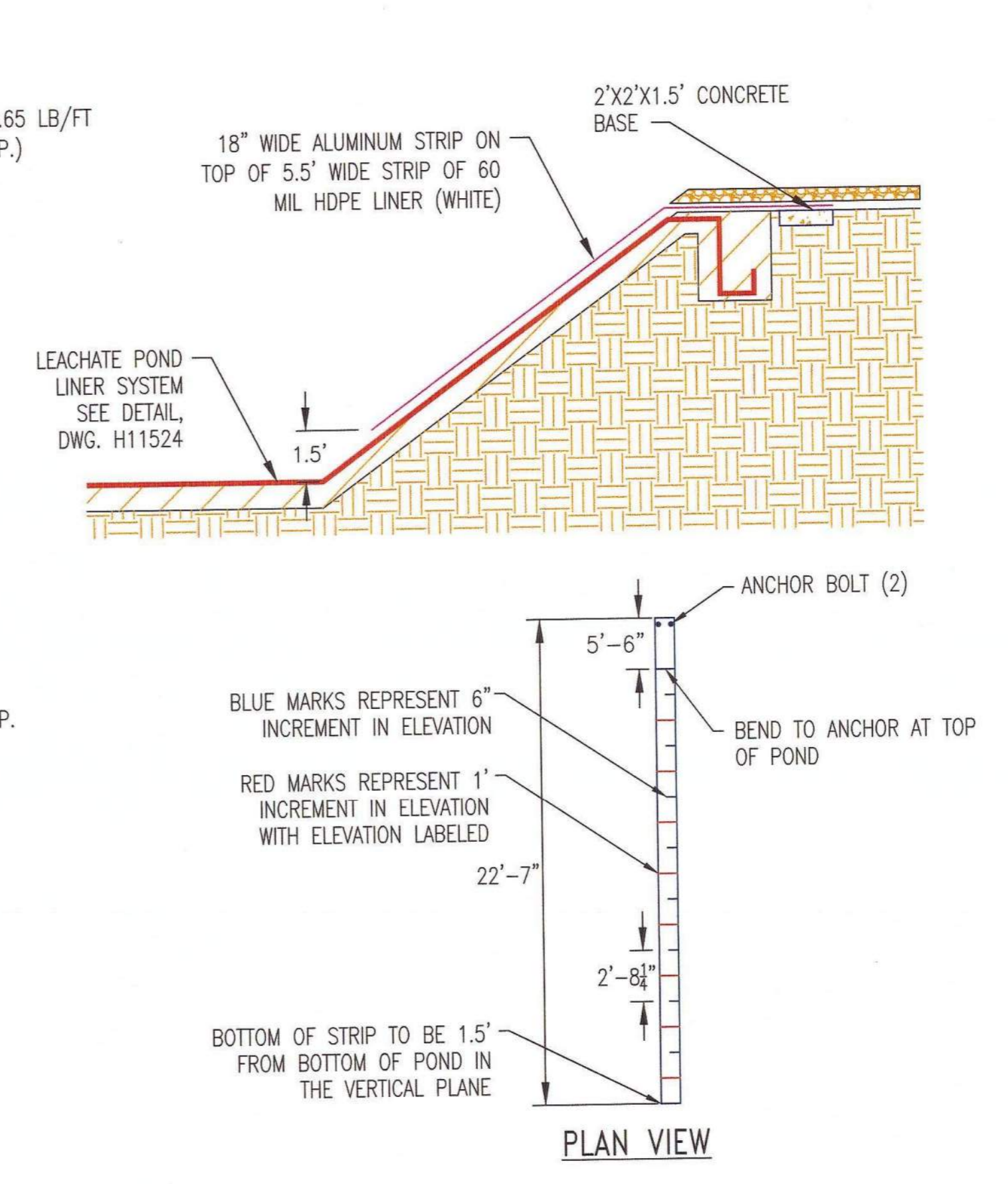
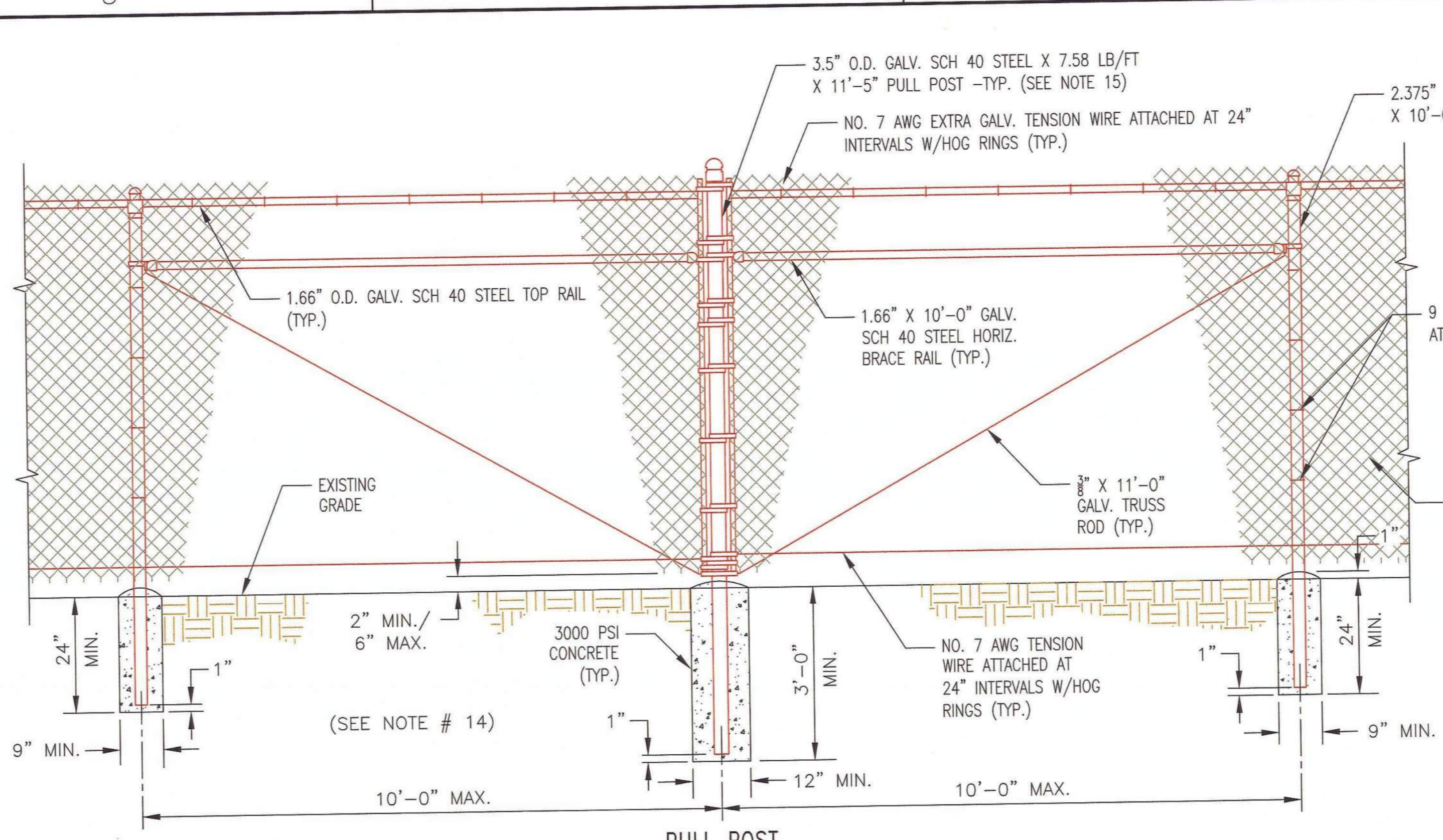
APPROVED BY: *R. Saji* DATE: 4/15/2014



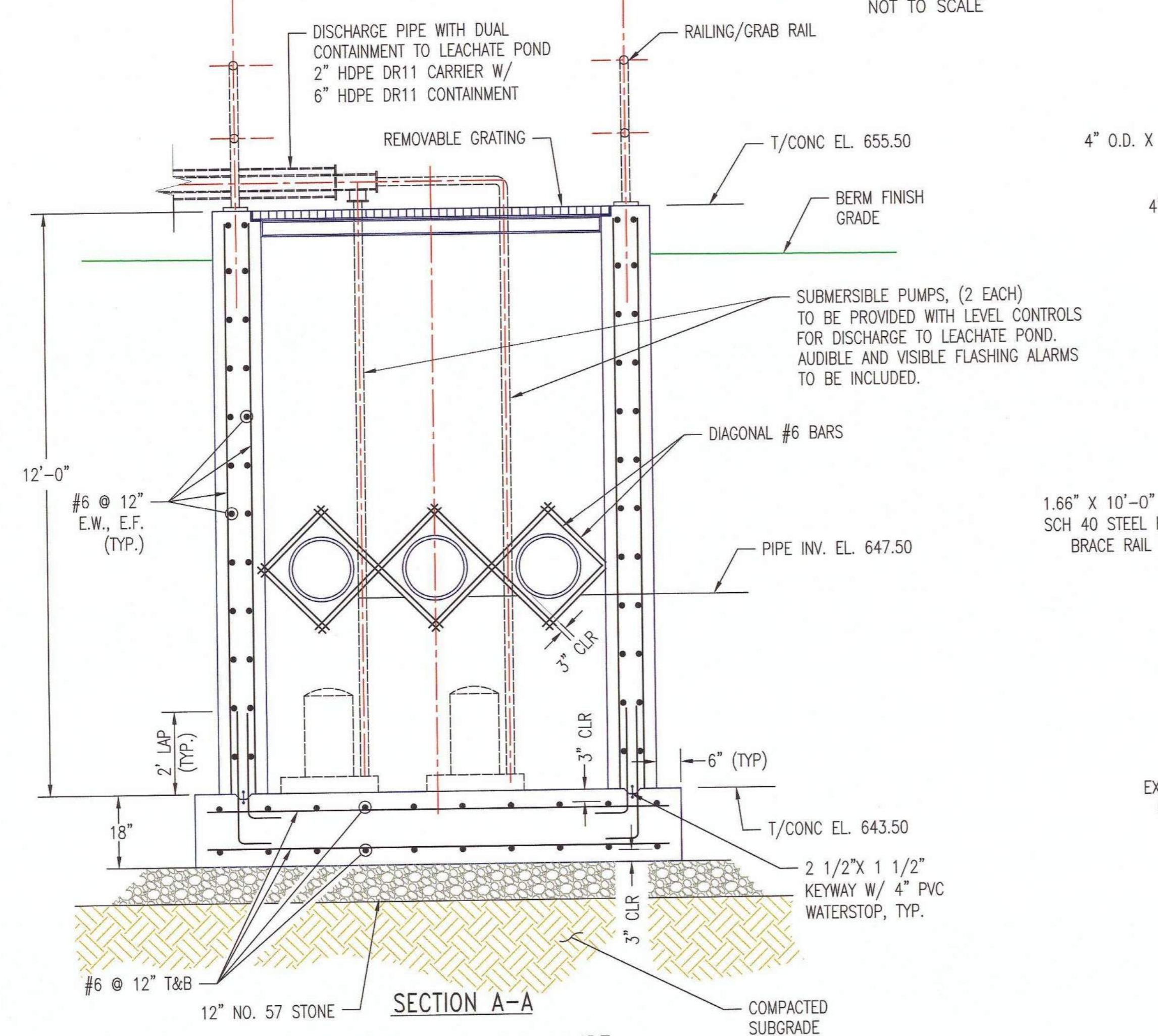
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ISSUED FOR MINOR MODIFICATION				GEORGIA POWER COMPANY			
REV. 0 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD COB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCWORTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PED12687				PLANT HAMMOND - HUFFAKER ROAD COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY PARCELS A & B SECTIONS AND DETAILS			
MWO: GPC232851,55,56,58 GPC232870,74,76,77				HAMMOND UNITS 1-4 MATS PROJECT			
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	MGR APPR	SCALE
CRU	GHM	MHL	LHB	X	X	KAM	NONE
REVISION	DATE	REVISION	DATE	DRAWING NUMBER			
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				SH	CONTD	REV	
				1	FINAL	0	



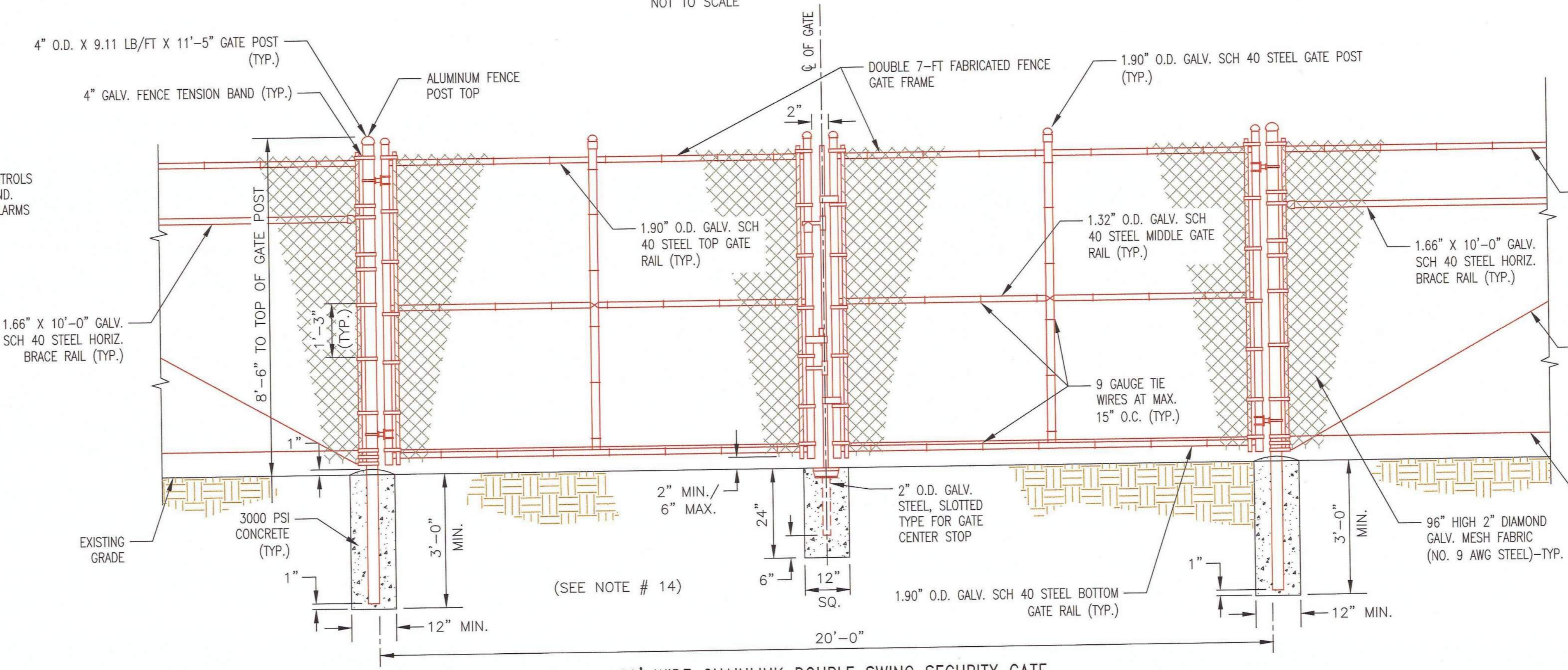
TYPICAL CORNER BAR DETAIL
NOT TO SCALE



WATER LEVEL MARKER POST DETAIL (LEACHATE POND)
NOT TO SCALE (H9134, H11525)



CONCRETE SUMP STRUCTURE (LEACHATE COLLECTION SYSTEM)
NOT TO SCALE (H9134, H11525)



20' WIDE CHAINLINK DOUBLE SWING SECURITY GATE
NOT TO SCALE

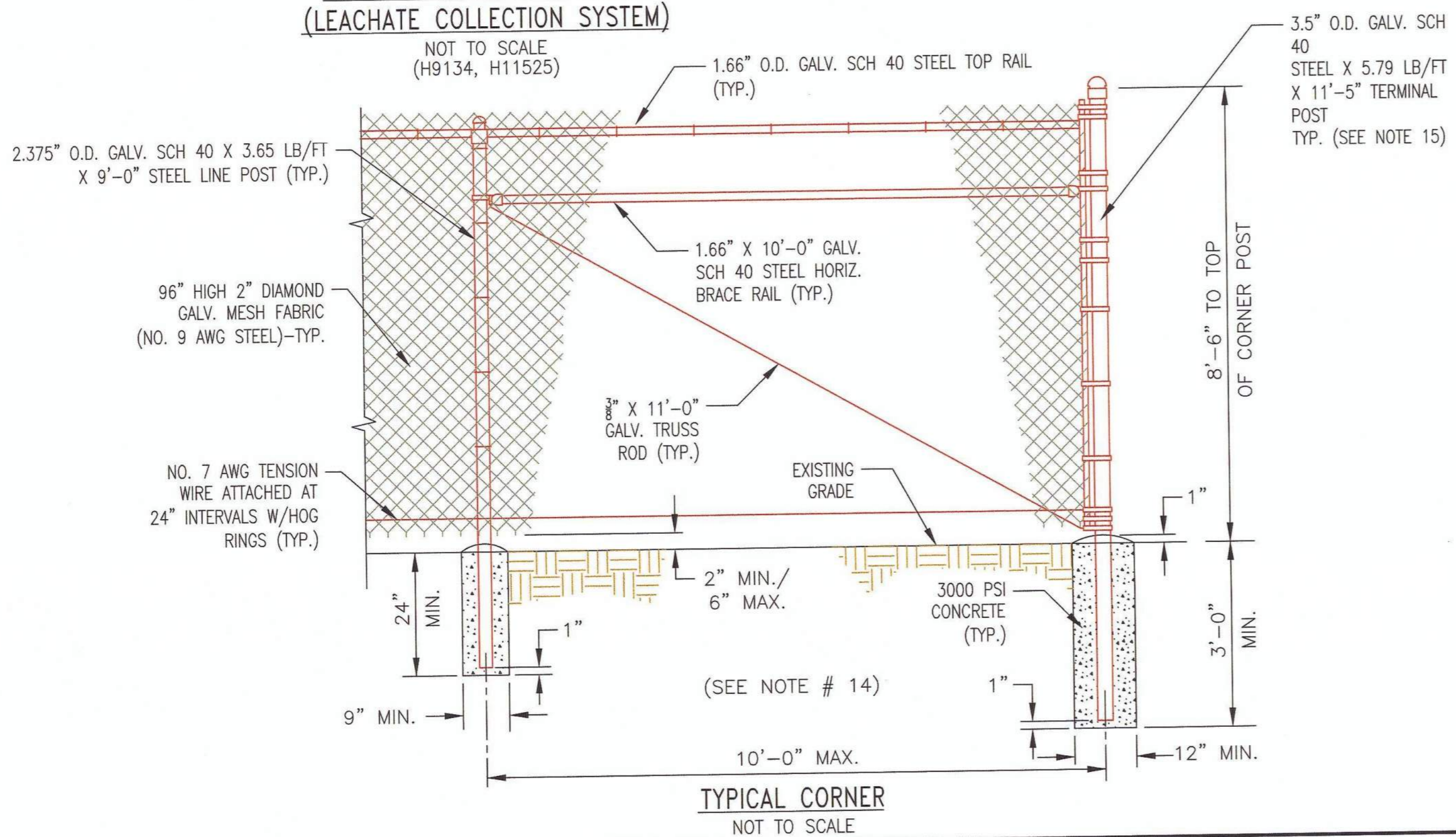
- FENCE NOTES:**
- FENCE MATERIALS AND ERECTION SHALL BE IN ACCORDANCE WITH THE SOUTHERN COMPANY GENERAL PROVISIONS FOR CHAIN LINK FENCE SPECIFICATION 32 31 13.
 - TIE FENCE FABRIC TO SPIRALED TENSION WIRE BETWEEN POSTS WITH GALVANIZED STEEL HOG RINGS TOP AND BOTTOM AT INTERVALS OF TWO FEET.
 - LIMIT TENSION IN FABRIC AND WIRE TO PREVENT BENDING OF GATE POSTS AND CORNER POSTS.
 - WHEN GATE PANEL IS INSTALLED ON A CORNER POST, THE LATCH SHOULD BE INSTALLED ON THE OPPOSITE PANEL.
 - PULL POSTS WILL BE INSTALLED AT APPROXIMATELY MID-SPAN WHERE SPACING BETWEEN CORNER POSTS OR TERMINAL POSTS EXCEEDS 100 FEET TO PROVIDE GROUNDING POINT PER NESC, OR WHERE IT IS NECESSARY TO TERMINATE THE FENCE DUE TO A CHANGE IN GRADE. MATERIAL FOR PULL POSTS TO BE SAME AS CORNER POSTS.
 - HINGE TO BE INSTALLED WITH GALVANIZED STEEL BOLT WITH TWO NUTS OR A PREFERRED SELF-LOCKING TYPE NUT TO LOCK BOLT IN PLACE.
 - CHAIN FOR GATE TO BE ONE PIECE; 3/4" GALVANIZED STEEL, WELDED, SIZE 5/0, INSERTED BETWEEN GATE FRAME AND TENSION BAR, SUCH THAT A TIGHT FIT IS OBTAINED WITH LOCK INSTALLED FROM OUTSIDE GATE. EXCESS LINKS SHOULD BE REMOVED.
 - FENCE FABRIC TO BE INSTALLED WITH TWIST SELVAGES AT BOTTOM.
 - GATE HINGE TO BE INSTALLED FOR 1/4" OR LESS GAP BETWEEN GATE POST AND FRAME TO PREVENT ACCESS WHEN CLOSED AND TO ALLOW APPROX. 180-DEGREES INWARD OPENING.
 - GATE KEEPER TO BE INSTALLED FOR EACH PANEL OF DOUBLE GATES AT MAXIMUM OPEN POSITION.
 - TRUSS RODS ARE NOT REQUIRED WHEN ONLY ONE LINE POST IS IN A CONTINUOUS SPAN OF FABRIC.
 - BOTTOM OF CHAIN LINK FABRIC TO BE INSTALLED A MINIMUM OF 2" TO A MAXIMUM OF 6" ABOVE FINISHED GRADE.
 - USE 3/4" O.D. X 11'-5" POST FOR CORNER AND PULL POSTS REQUIRING BARBED WIRE TO BE HELD BY 45-DEGREE ARMS, CUT 12" OFF POST FOR A HEIGHT OF 10'-5".
 - DOUBLE DRIVE GATES TO BE INSTALLED TO MINIMIZE OPENING TO 2" MAXIMUM. (CHAIN SHOULD NOT BE SLACK.)
 - CONCRETE TO BE POURED WITH A 1" DOME TO PREVENT PUDDLING NEAR POST.

NOTES:

- CONCRETE AND METAL SURFACES INSIDE SUMP STRUCTURE SHALL BE COATED WITH CHEMPURF 2410 LINING SYSTEM OR AN APPROVED EQUAL.

REFERENCES:

- FOR A COMPLETE DRAWING LIST SEE SHEET H9130.

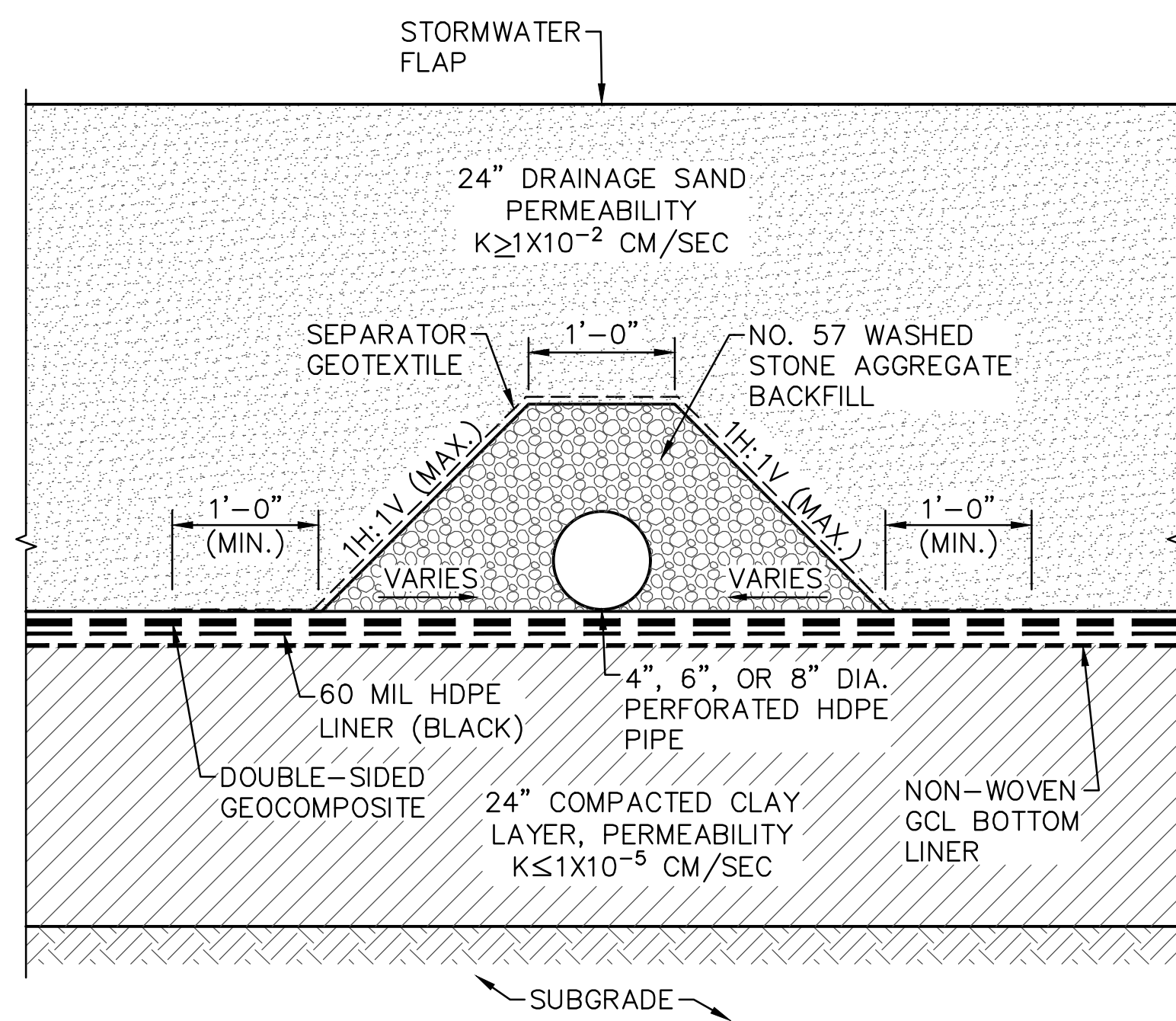


TYPICAL CORNER
NOT TO SCALE

GEORGIA Environmental Protection Division Solid Waste Management Program
MINOR MODIFICATION APPROVAL
SOLID WASTE PERMIT NO. 057-022D(LF)
APPROVED BY: R. Day DATE: 4/15/2014



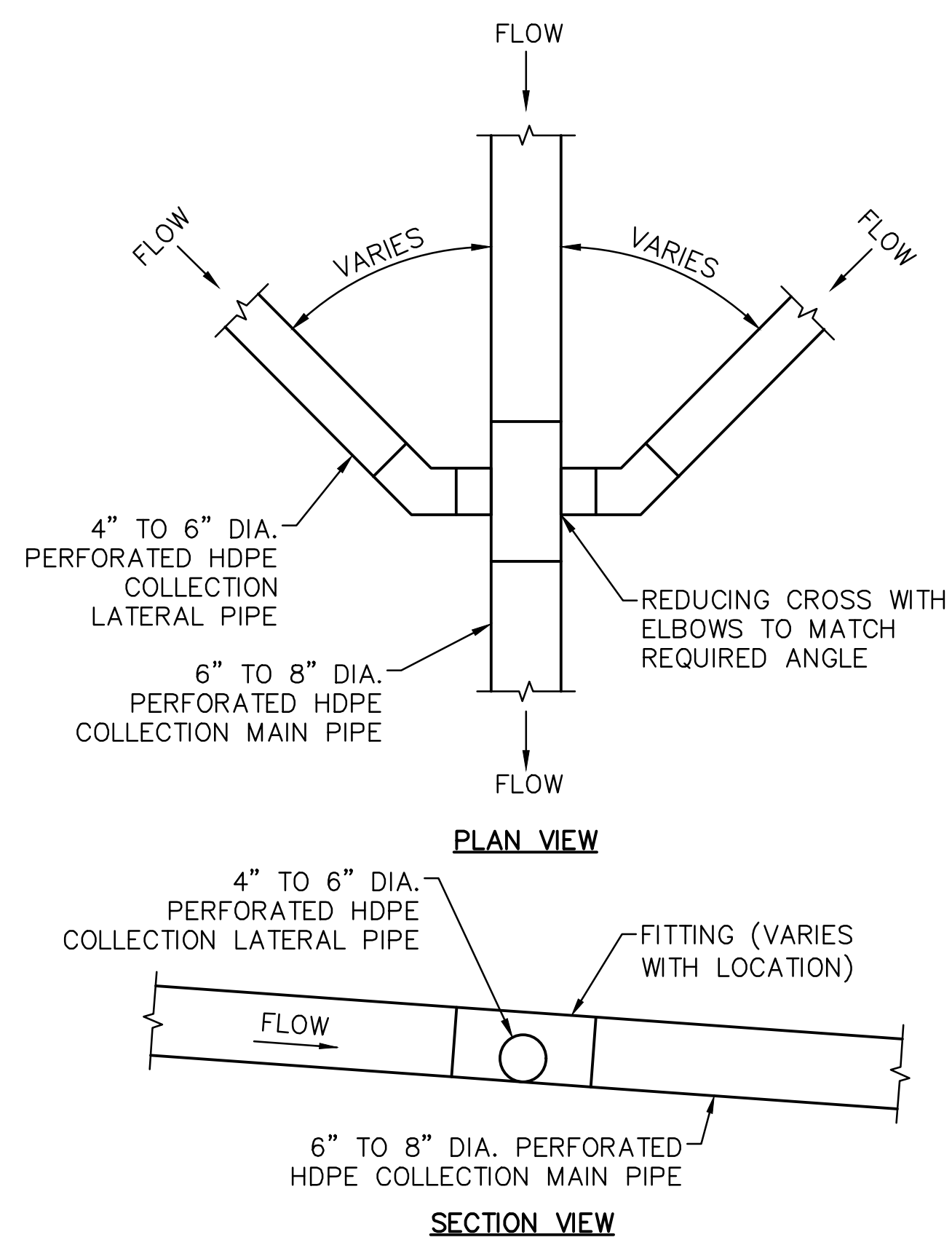
Southern Company Services, Inc. FOR				GEORGIA POWER COMPANY			
PLANT HAMMOND - HUFFAKER ROAD				COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY			
PARCELS A & B				SECTIONS AND DETAILS			
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ISSUED FOR MINOR MODIFICATION				REV. 0 OF THIS DRAWING BEING PART OF THE "DESIGN AND OPERATIONS PLAN" FOR THE PLANT HAMMOND-HUFFAKER ROAD CCB DISPOSAL FACILITY, WAS SEALED BY GARY H. MCHARTER, GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE012687			
MWO: GPC232851,55,56,58 GPC232870,74,76,77				HAMMOND UNITS 1-4 MATS PROJECT			
BY	CHK'D	CIVIL APPR	ELECT APPR	L/C APPR	MECH APPR	MGR APPR	SCALE
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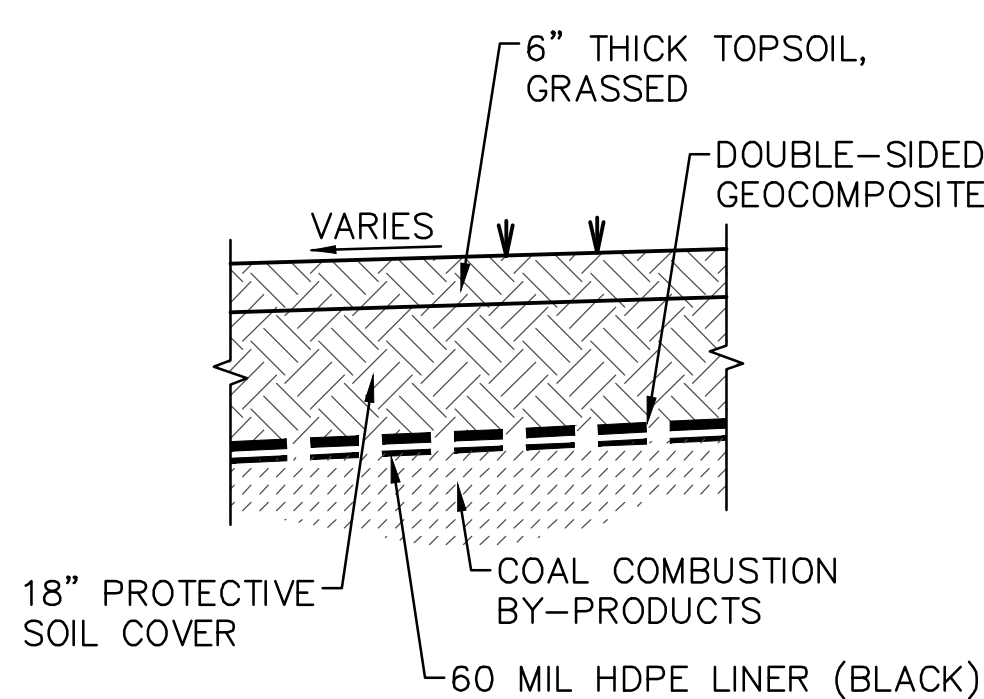
NOTES:

- HEAT BOND SEPARATOR GEOTEXTILE TO GEOCOMPOSITE AT OVERLAP OVER STONE AGGREGATE BACKFILL.
- TOP OF COMPACTED CLAY LAYER WILL SLOPE TOWARD THE HDPE PIPE FROM BOTH DIRECTIONS FOR THE LEACHATE COLLECTOR LATERAL PIPES LOCATED ALONG THE SOUTHERN AND WESTERN LIMITS OF THE SUBGRADE. THE TOP OF COMPACTED CLAY LAYER SLOPES IN ONE DIRECTION FOR ALL OTHER LEACHATE COLLECTOR PIPES.
- CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF $K \leq 1 \times 10^{-7}$ CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER.

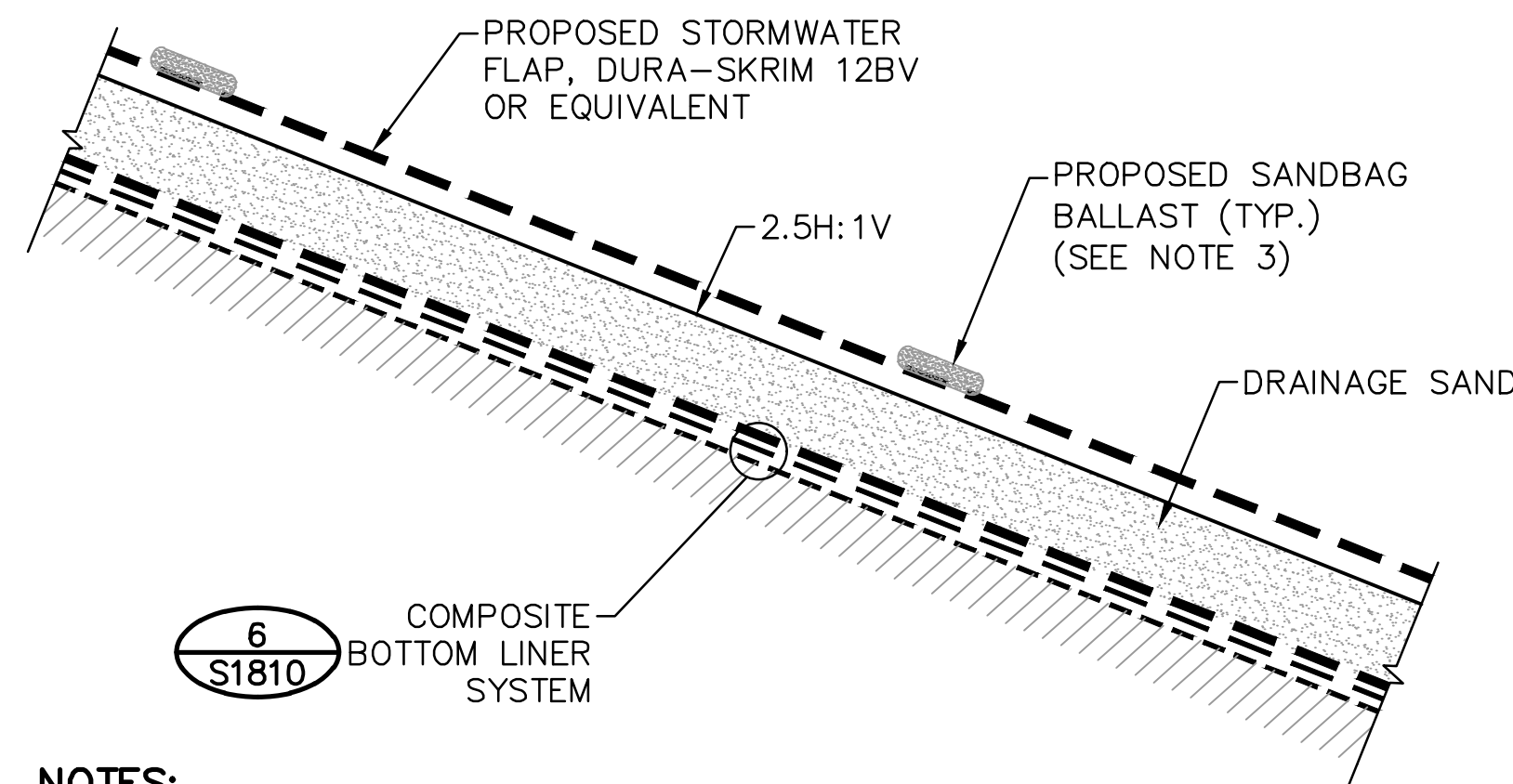
1 DETAIL - TYPICAL LEACHATE COLLECTION SYSTEM PIPING
SCALE: 1"=1'-0"



4 DETAIL - LATERAL COLLECTION MAIN PIPE CONNECTIONS
SCALE: 1"=1'-0"



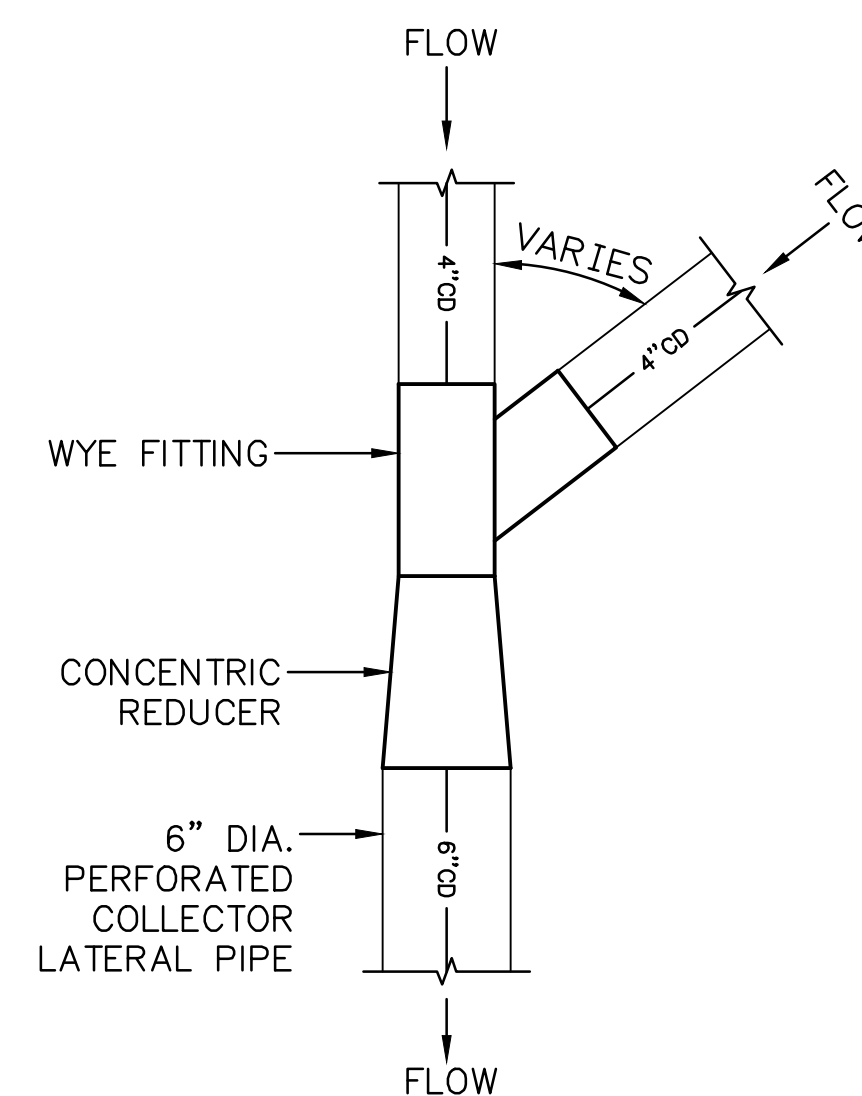
7 DETAIL - FINAL COVER
SCALE: 1/2"=1'-0"



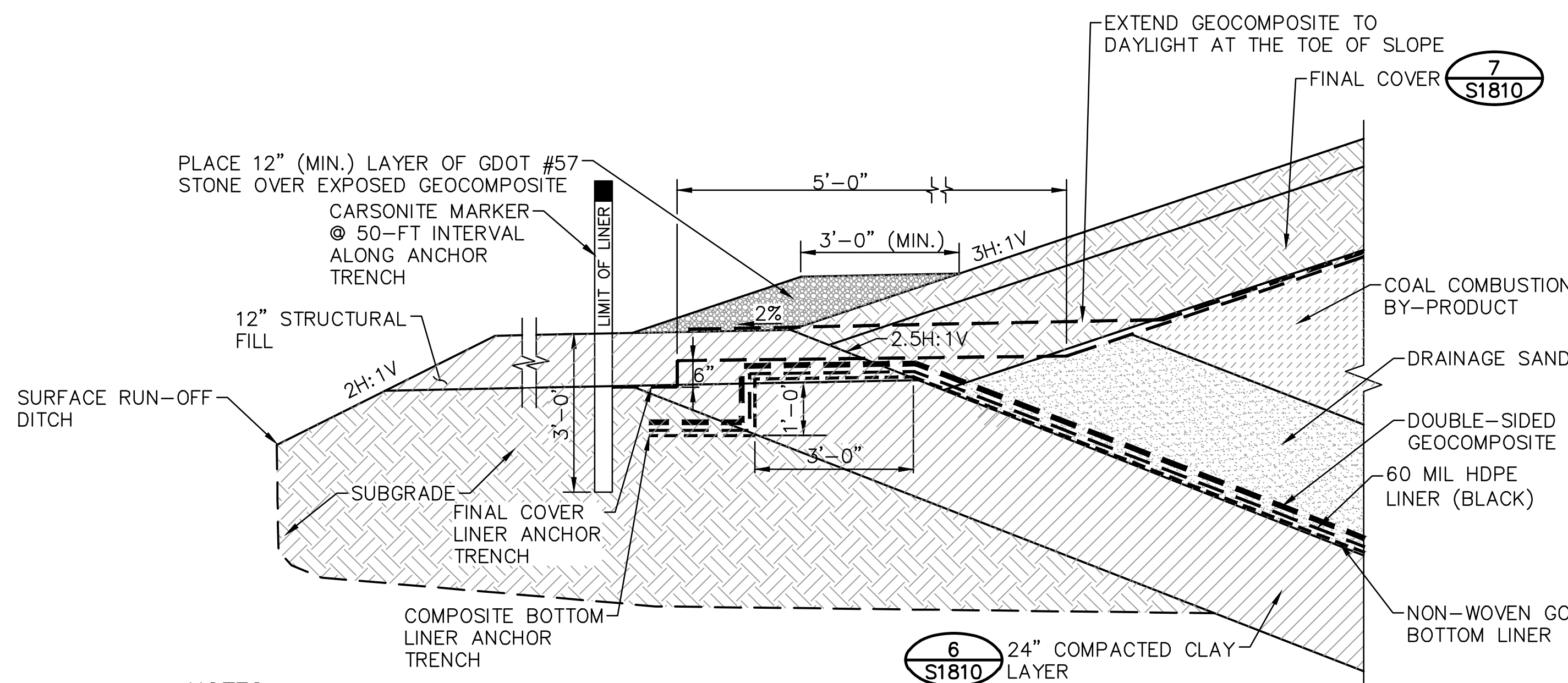
NOTES:

- STORMWATER FLAPS TO BE INSTALLED ON AREAS NOT ACTIVELY RECEIVING WASTE.
- STORMWATER FLAP SEAMS TO BE WELDED.
- THIRTY POUND SANDBAGS SHALL BE PLACED AT TEN FEET INTERVALS LATERALLY ALONG THE STORMWATER FLAP AT THE LOCATIONS SHOWN ON THE DETAIL.
- A TEMPORARY STORMWATER FLAP SHALL BE USED DURING FILLING OPERATIONS TO REDUCE THE VOLUME OF STORMWATER DISCHARGE INTO THE LEACHATE COLLECTION SYSTEM.

2 DETAIL - STORMWATER FLAPS
SCALE: 1/4"=1'-0"



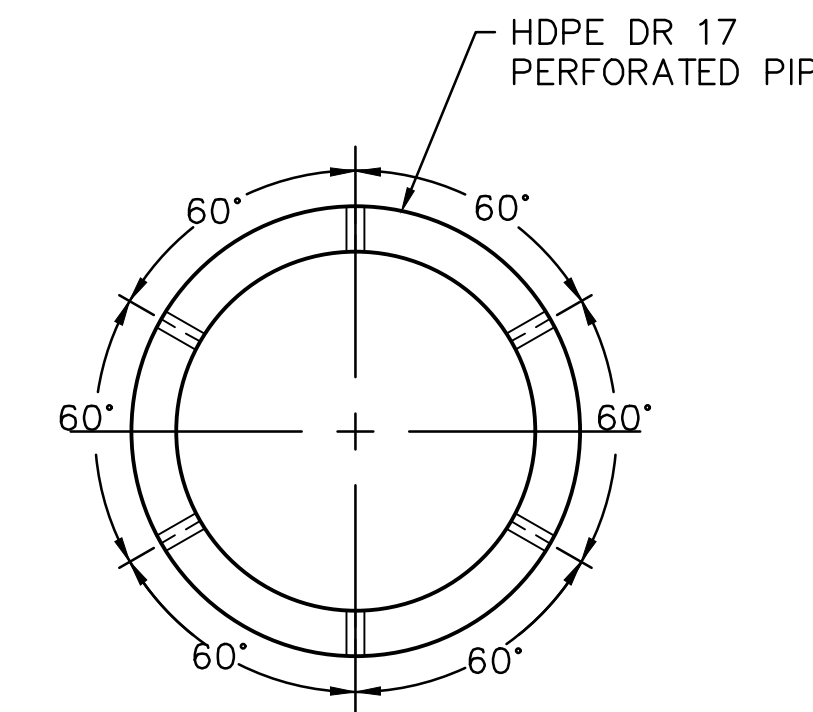
5 DETAIL - LATERAL COLLECTION LATERAL WYE
SCALE: 1"=1'-0"



NOTES:

- INSTALL MARINE GRADE PLYWOOD (MINIMUM 5/8" THICK) OVER BOTTOM LINER FOR PROTECTION WHERE FUTURE INSTALLATION OF TOP LINER WILL OCCUR. REMOVE PLYWOOD DURING INSTALLATION OF FINAL COVER SYSTEM.
- PLACE AND TAMP A WEDGE OF COVER SOIL AT THE INTERSECTION OF THE DRAINAGE SAND AND PERIMETER BERM AS NECESSARY TO PROVIDE A SMOOTH AND LEVEL SURFACE FOR THE CAP LINER.
- CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF $K < 1 \times 10^{-7}$ CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER.
- LINERS ARE SHOWN AS OFFSETS FOR CLARITY. ACTUAL LINER PLACEMENT WILL BE FLUSH WITH TOP OF SUBGRADE.

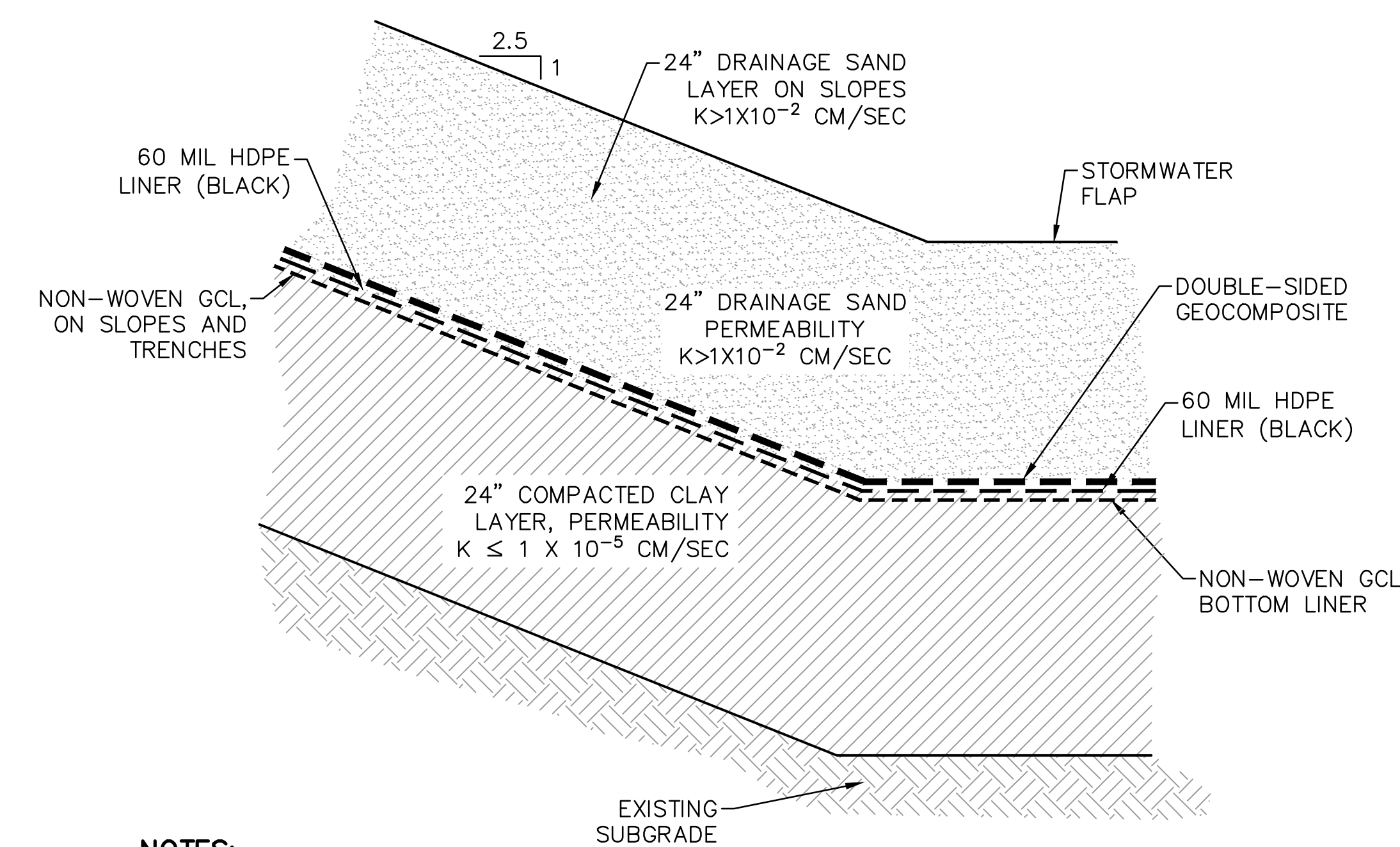
8 DETAIL - PERIMETER ANCHOR TRENCH
SCALE: 1/2"=1'-0"



NOTE:

AASHTO CLASS I PERFORATION FOR 4" TO 24" PIPE-6 PERFORATIONS REQ'D PER SIX INCH LENGTH OF PIPE (TOTAL 12 PER FT OF PIPE. EACH PERFORATION 0.25" Ø CIRCULAR.)

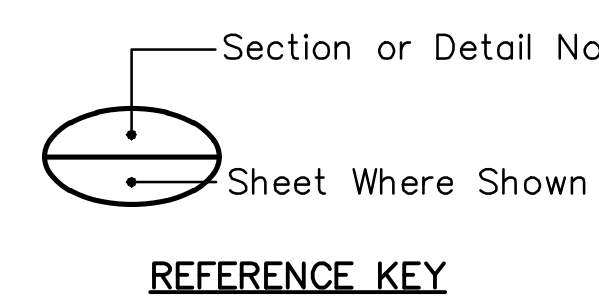
3 DETAIL - LEACHATE PERFORATED PIPE
NOT TO SCALE



NOTES:

- SEPARATOR GEOTEXTILE SHALL BE USED ON TOP OF SAND/COAL COMBUSTION BY-PRODUCTS INTERFACE IF TESTING RESULTS INDICATE FILTER CRITERIA NOT MET.
- CONTRACTOR MAY OMIT THE NON-WOVEN GCL BOTTOM LINER IF A PERMEABILITY OF $K \leq 1 \times 10^{-7}$ CM/SEC CAN BE ACHIEVED FOR THE COMPACTED CLAY LAYER.

6 DETAIL - COMPOSITE BOTTOM LINER SYSTEM
SCALE: 1"=1'-0"

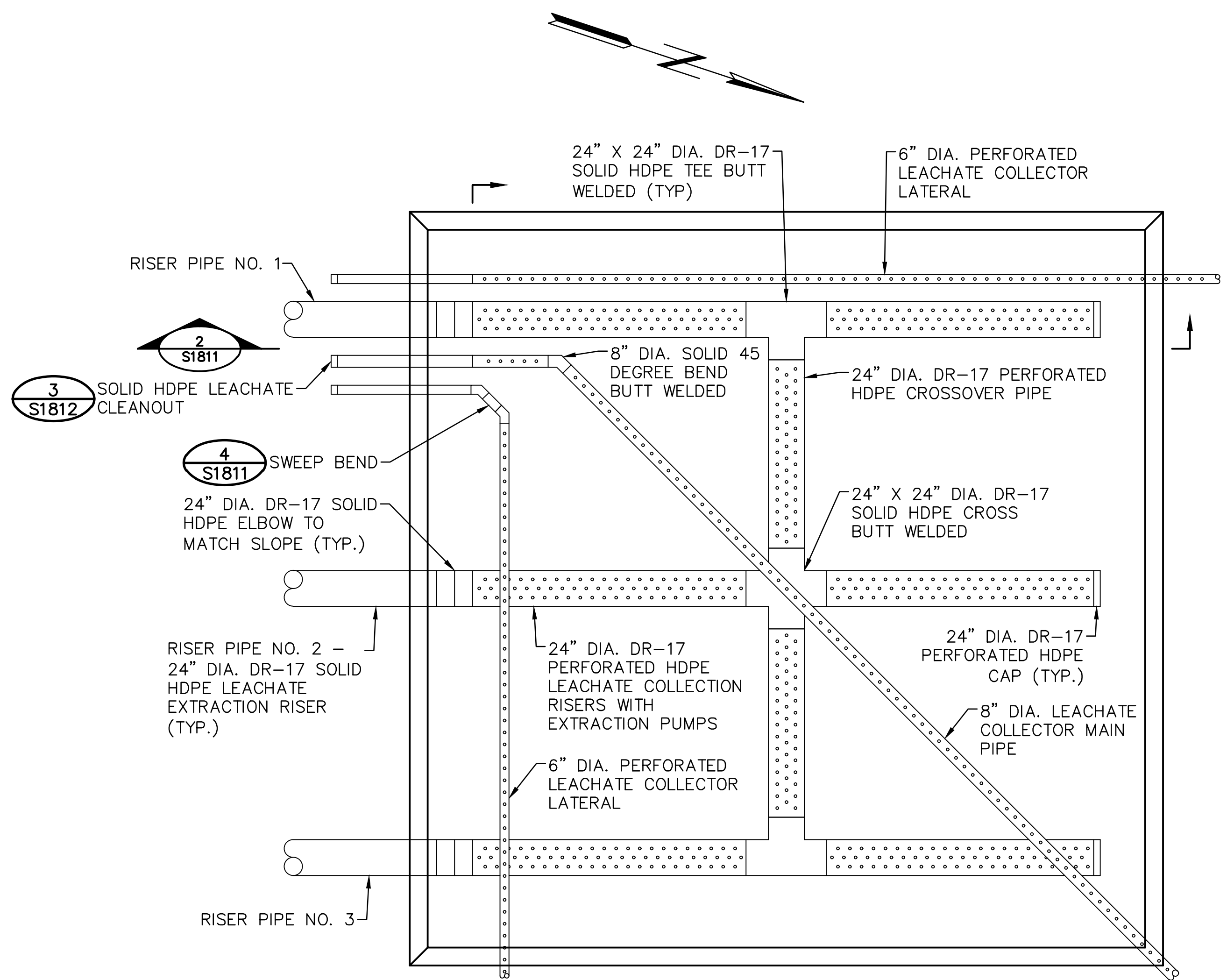


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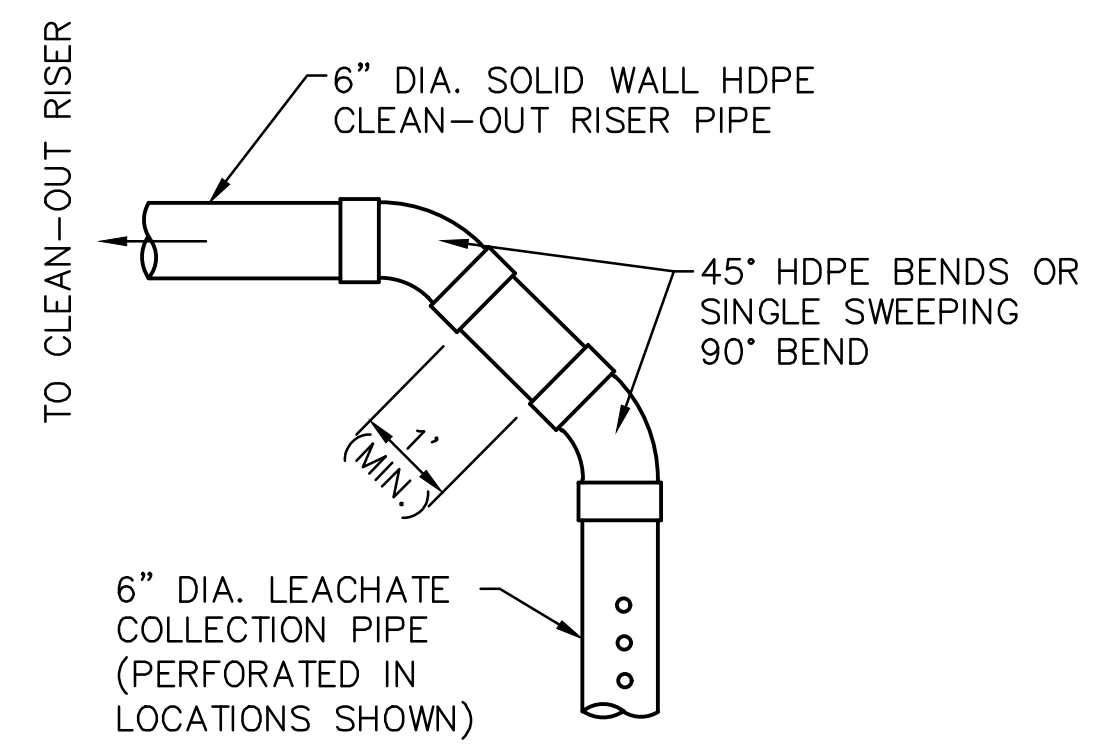
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FOR
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PLANT HAMMOND - HUFFAKER ROAD
COAL COMBUSTION BY-PRODUCTS DISPOSAL FACILITY
PARCELS C & D
DETAILS

REVISION	DATE	REVISION	DATE
		0	11/14/2018
ISSUED FOR CCR PERMIT APPLICATION			
BY	CHK'D	CIVIL APPR	ELECT APPR
TJ	DEH	JAS	
SCALE: AS SHOWN			
PROJ. I.D.: 175618707			
DRAWING NUMBER: S1810			
SHEET: 1			
CONTD: 0			
REV: 0			

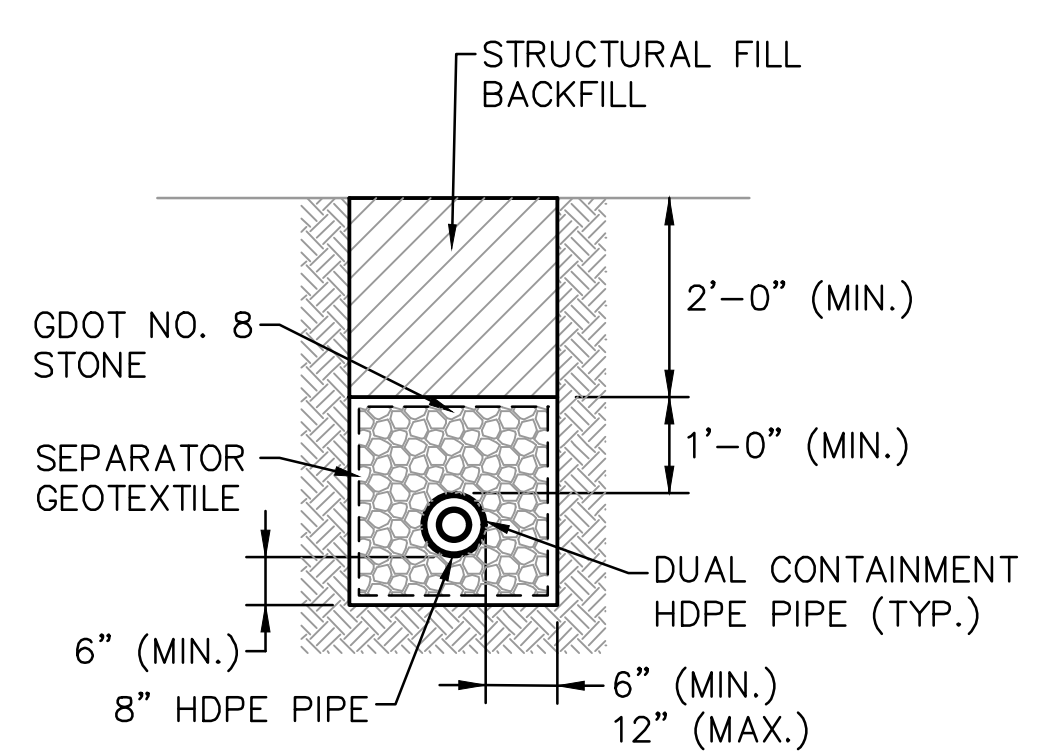


- NOTES:**
- ORIENTATION OF SUMP SHOWN FOR ILLUSTRATIVE PURPOSES. SEE GRADING PLANS AND LEACHATE PIPE LOCATION DRAWINGS FOR PROPOSED LOCATIONS.
 - BOTTOM SURFACE AREA OF SUMP TO BE A MINIMUM OF 1600 SF.
 - SLOPES OF SUMP SIDES, RISERS, AND CLEANOUTS TO BE PER PLAN.

1 PLAN VIEW - LEACHATE COLLECTION SUMP
S1811 SCALE: 1"=5'

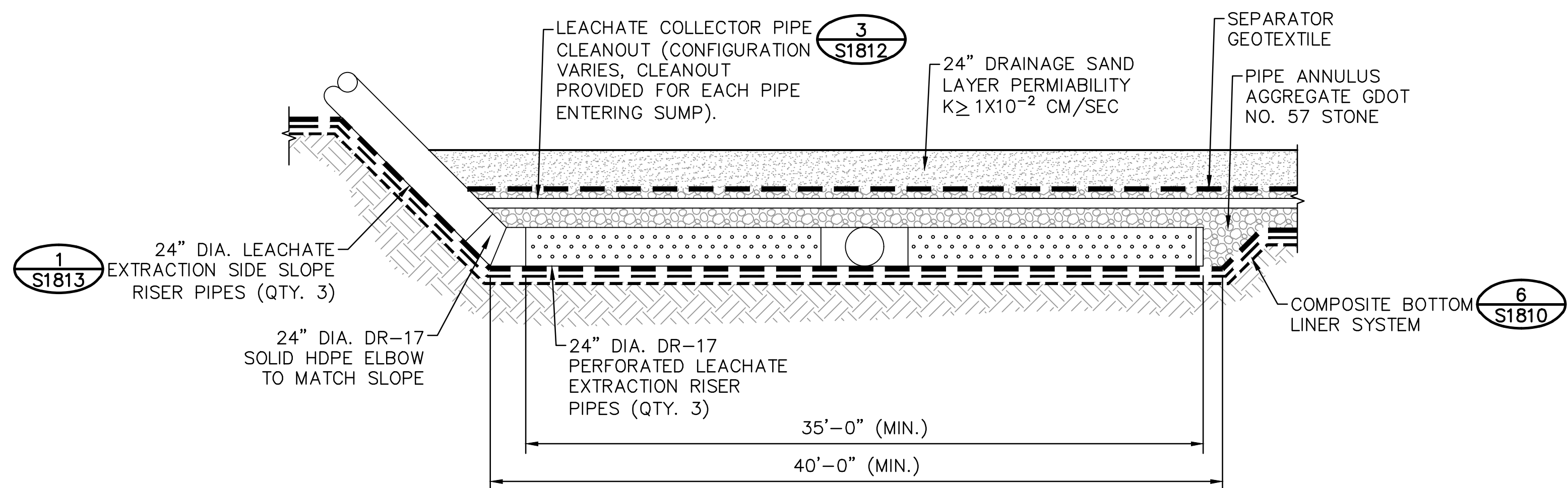


4 DETAIL - SWEEP BEND
S1811 NOT TO SCALE



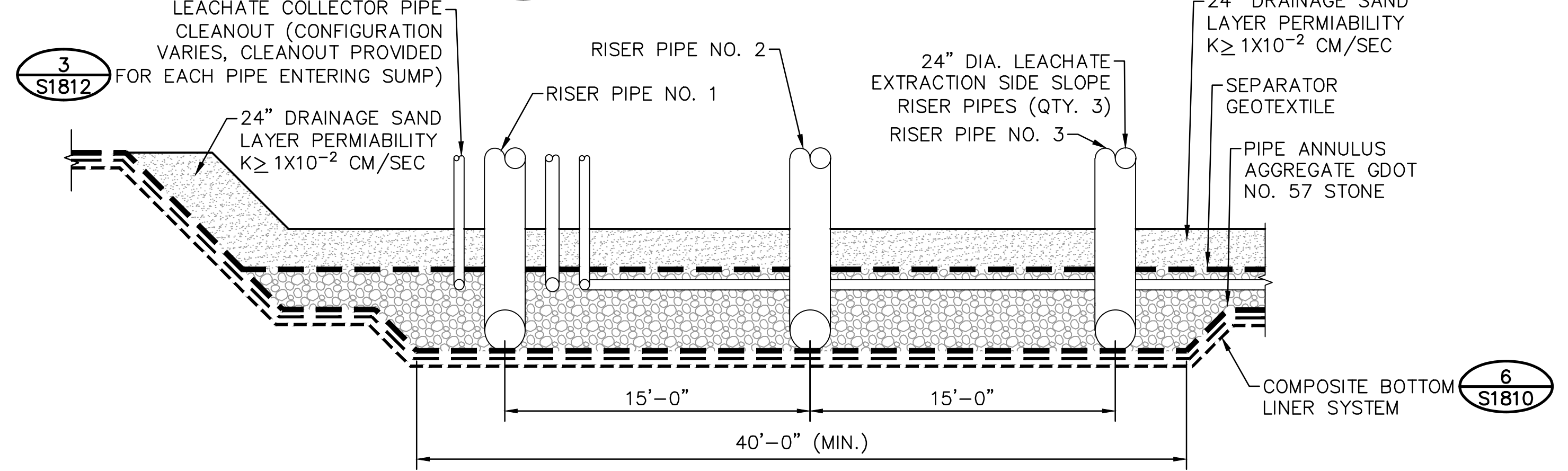
- NOTES:**
- HDPE PIPING AND FITTINGS SHALL BE DR17.
 - INSTALL UNDERGROUND MARKING TAPE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE ALL NECESSARY SHORING OR TRENCH BOXES.

5 DETAIL - LEACHATE FORCE MAIN TRENCH
S1811 SCALE: 1/2"=1'-0"



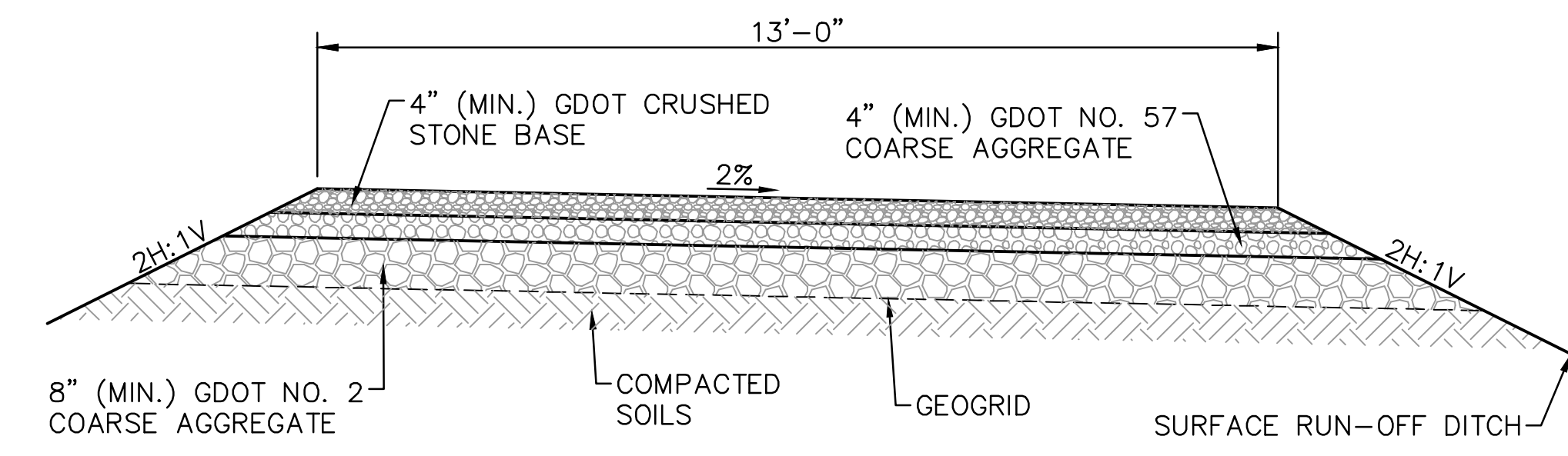
- NOTES:**
- INSTALL SEPARATOR GEOTEXTILE BENEATH 24" DIAMETER RISER PIPES TO PROTECT UNDERLYING GEOSYNTHETICS.
 - LENGTH OF PERFORATED 24" HDPE AND CROSS OR TEE SHALL BE LESS THAN 35".
 - GECOMPOSITES DO NOT EXTEND UP THE SIDE SLOPES.

2 SECTION - LEACHATE COLLECTION SUMP
S1811 SCALE: 1"=5'

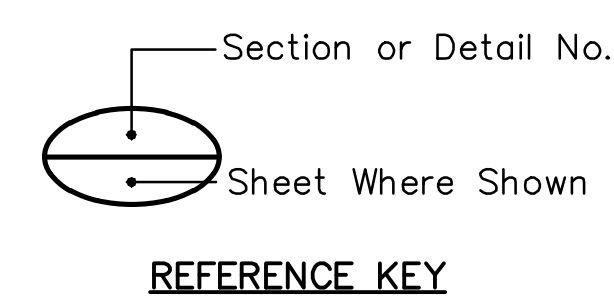


- NOTES:**
- INSTALL SEPARATOR GEOTEXTILE BENEATH 24" DIAMETER RISER PIPES TO PROTECT UNDERLYING GEOSYNTHETICS.
 - GECOMPOSITES DO NOT EXTEND UP THE SIDE SLOPES.

3 SECTION - LEACHATE COLLECTION SUMP
S1811 SCALE: 1"=5'



6 DETAIL - PERIMETER ROAD
S1811 SCALE: 1/2"=1'-0"



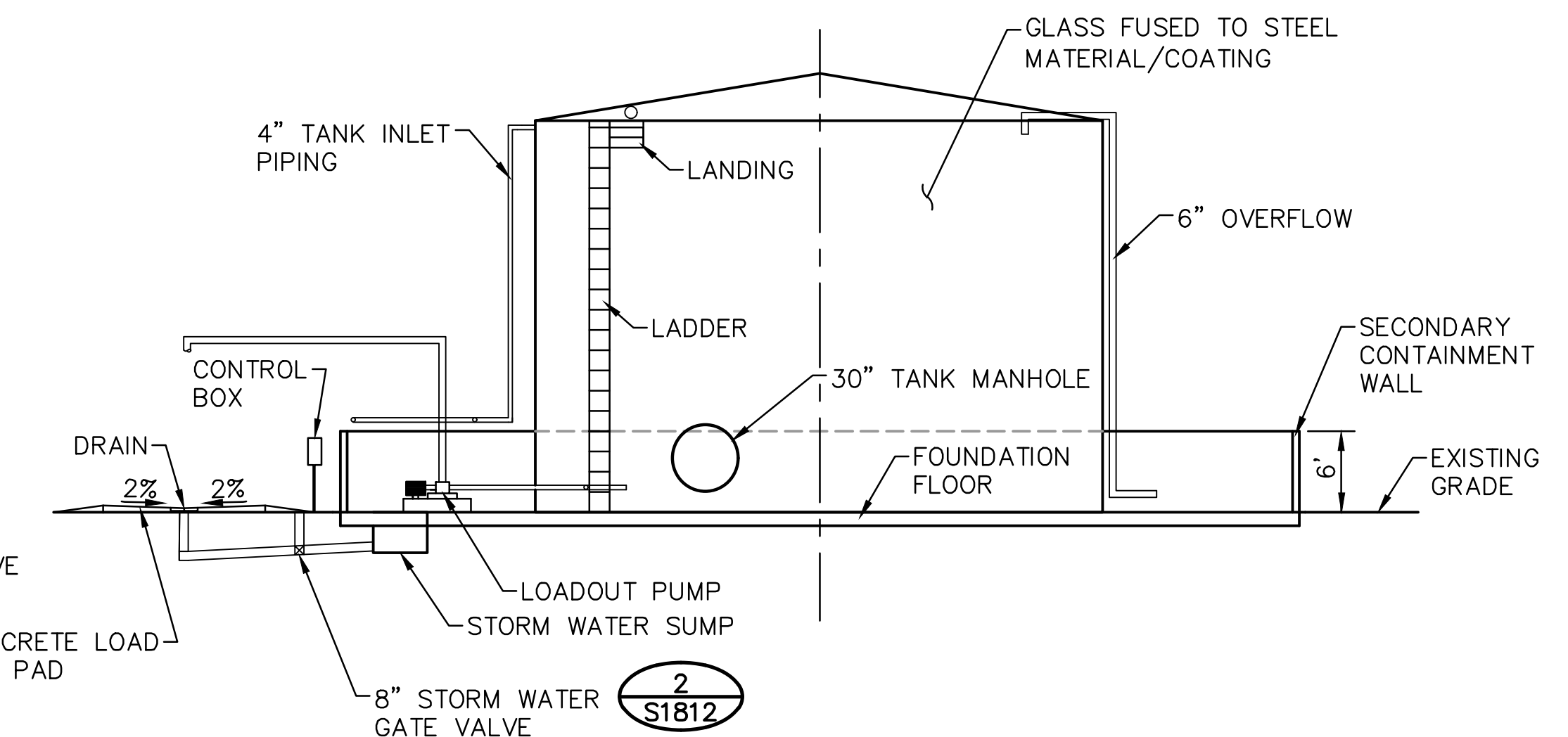
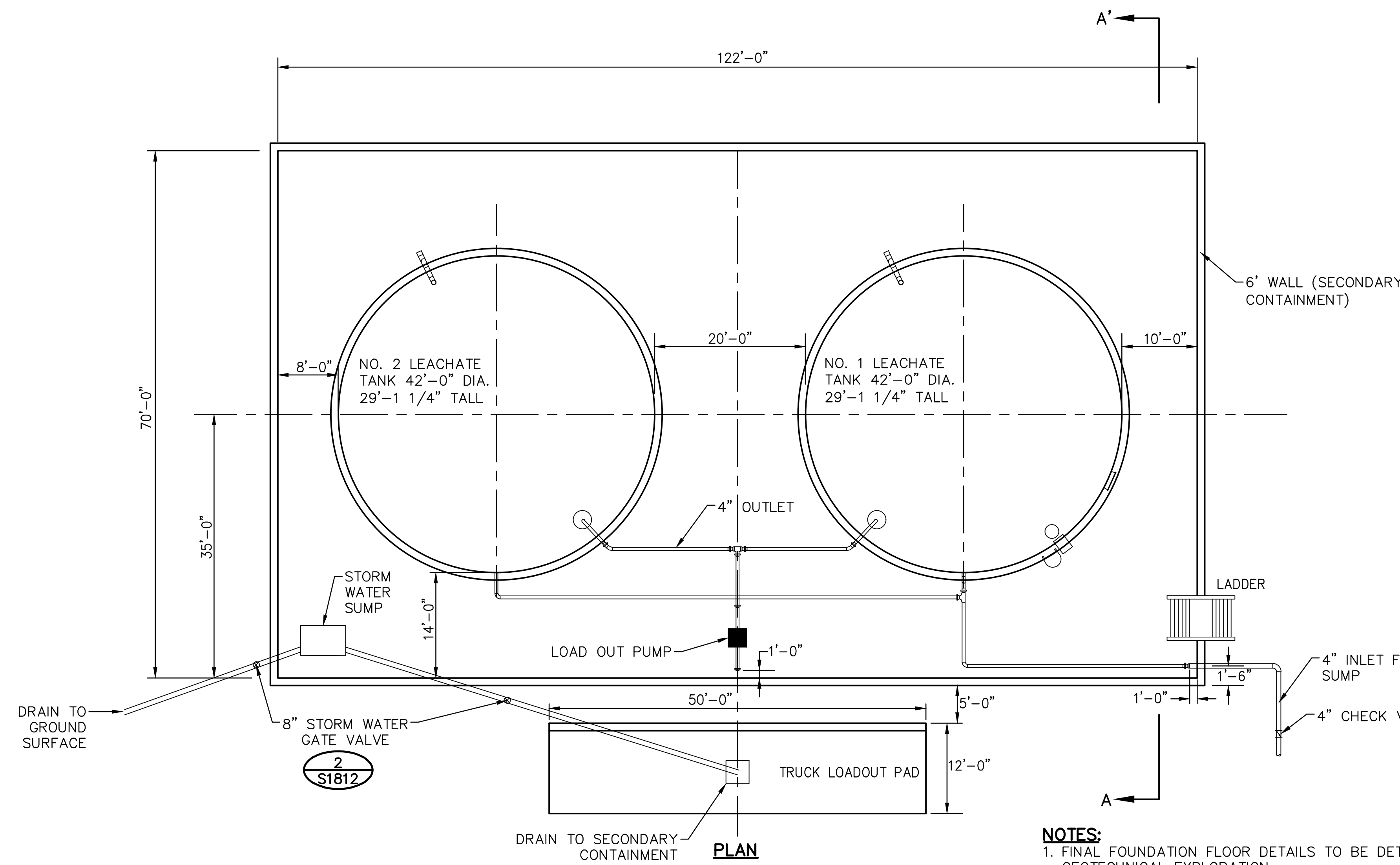
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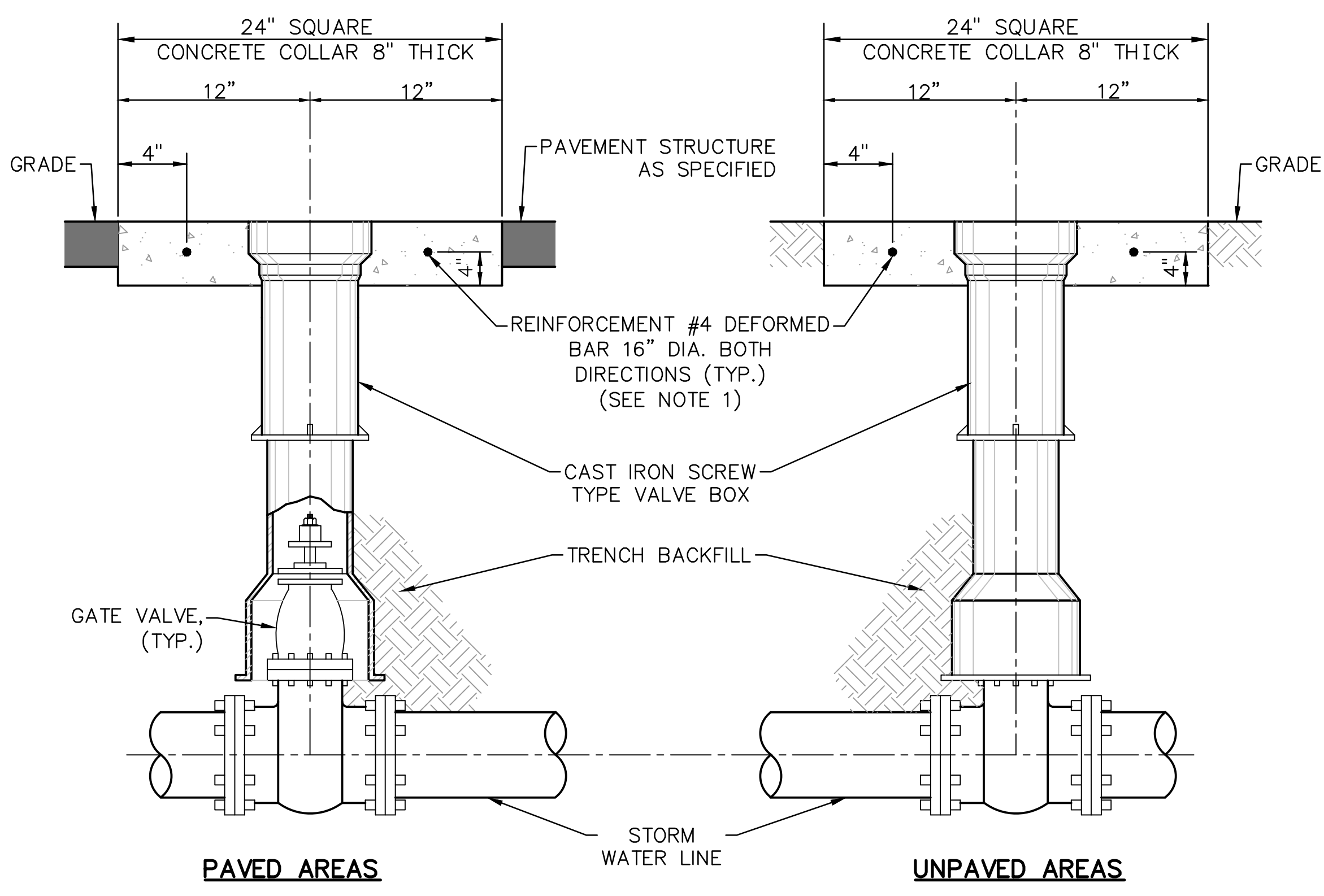
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BY	CHK'D	CIVL APPR	ELECT APPR
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SCALE	PROJ. I.D.	DRAWING NUMBER	SHT	CONTD.	REV
AS SHOWN	175618707	S1811	1	FINAL	0



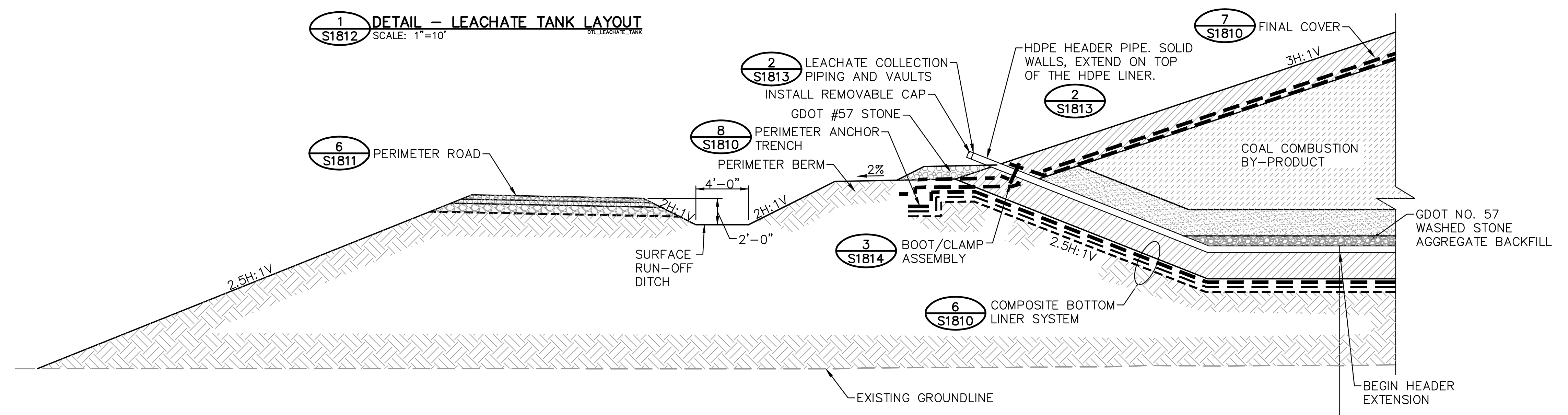
NOTES:
 1. FINAL FOUNDATION FLOOR DETAILS TO BE DETERMINED UPON COMPLETION OF GEOTECHNICAL EXPLORATION.
 2. TWO LEACHATE TANKS TO BE INSTALLED. GLASS FUSED TO STEEL MATERIAL. EACH TANK HAS A DIAMETER OF 42'-0" AND IS 29'-1 1/4" TALL. EACH TANK HAS A CAPACITY OF 290,750 GALLONS. A CONCRETE FLOOR SECONDARY CONTAINMENT HAS BEEN SIZED FOR 110% OF THE VOLUME FOR ONE TANK AND FOR 6 FEET OF STORAGE IN THE SECOND TANK. SECONDARY CONTAINMENT IS 6 FEET TALL.

1 DETAIL - LEACHATE TANK LAYOUT
 S1812 SCALE: 1"=10'

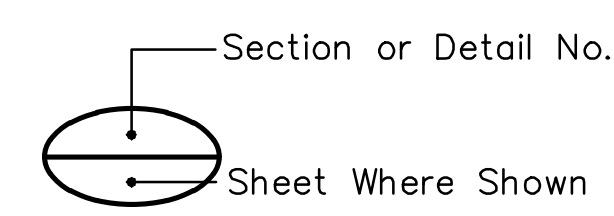


NOTES:
 1. TOP OF VALVE BOX AND CONCRETE COLLAR TO BE 1/4" BELOW FINAL STREET GRADE.
 2. IF TOP OF VALVE NUT IS MORE THAN 4' DEEP THEN VALVE STEM EXTENSION IS REQUIRED PER DETAIL.
 3. CONCRETE COLLAR TO BE MINIMUM 4,000 PSI.

2 DETAIL - STORM WATER VALVE BOX DETAIL
 S1812 NOT TO SCALE



3 DETAIL - LEACHATE COLLECTION SYSTEM CLEANOUT
 S1812 SCALE: 1"=5'



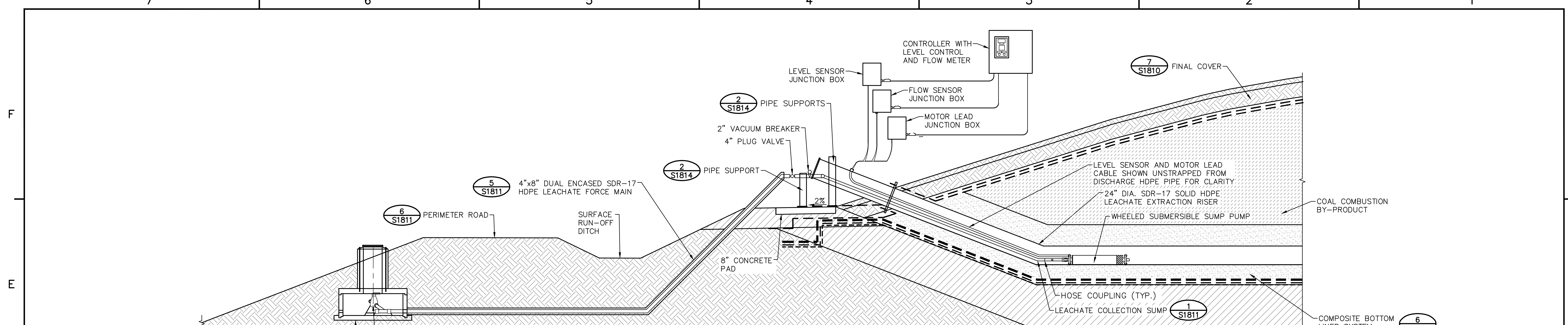
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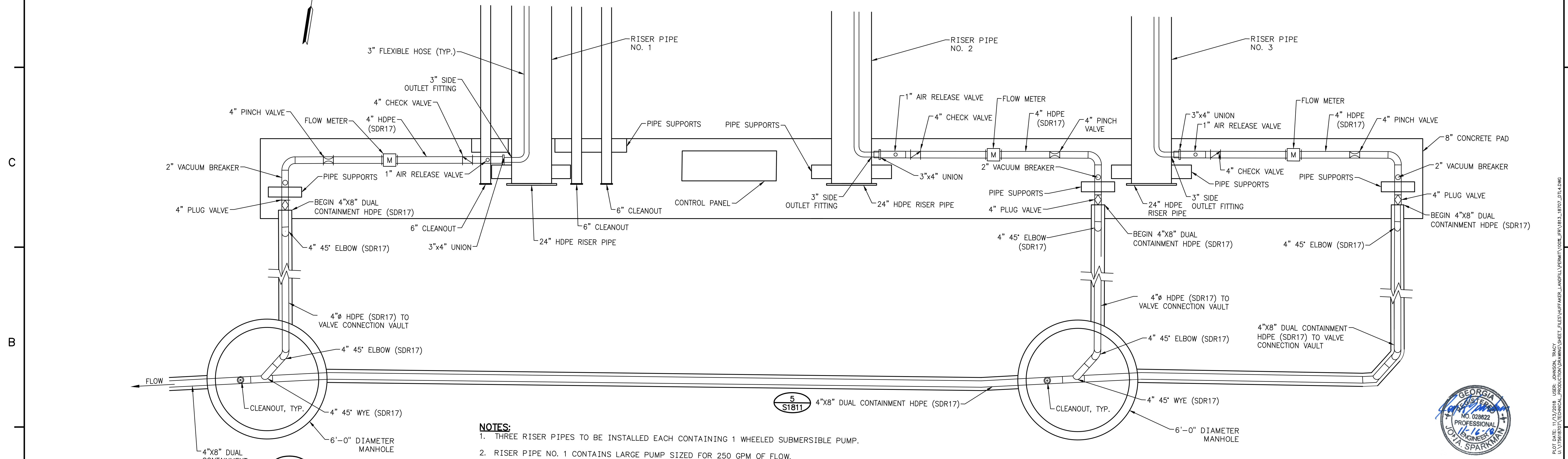
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TJ	DEH	JAS	

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AS SHOWN	175618707	S1812	1	FINAL	0



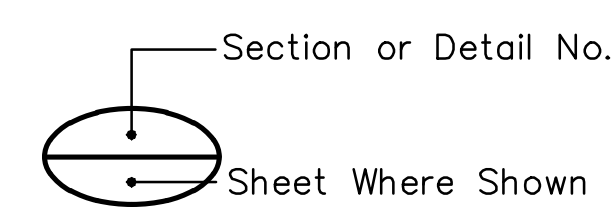
- NOTES:**
1. CONTROLLER SHALL BE MOUNTED A MINIMUM OF 15 FEET FROM RISER OR AS STIPULATED BY PUMP MANUFACTURER.
 2. CONTROLLER SHALL BE MOUNTED A MINIMUM OF 3 FEET ABOVE GRADE.
 3. INSTALL ALL LEACHATE PUMPS DURING THE INITIAL PHASE OF CONSTRUCTION.
 4. DUAL ENCASED PIPE TO MAINTAIN MINIMUM COVER OF 36 INCHES.
 5. DUAL ENCASED PIPE TO MAINTAIN POSITIVE DRAINAGE TOWARDS MANHOLE AT ALL TIMES.

1 S1813 **DETAIL - LEACHATE EXTRACTION PUMP SIDE SLOPE RISER**
SCALE: 1/2"=1'-0"



- NOTES:**
1. THREE RISER PIPES TO BE INSTALLED EACH CONTAINING 1 WHEELED SUBMERSIBLE PUMP.
 2. RISER PIPE NO. 1 CONTAINS LARGE PUMP SIZED FOR 250 GPM OF FLOW.
 3. RISER PIPE NO. 2 AND NO. 3 CONTAINS SMALLER PUMPS SIZED FOR 85 GPM OF FLOW.
 4. PUMPS WILL PUMP DIRECTLY TO LEACHATE TANKS.
 5. INSTALL DUAL CONTAINMENT TERMINATION FITTINGS ON EACH PIPE AS IT ENTERS THE MANHOLES.
 6. PIPE PENETRATIONS IN MANHOLE ARE TO BE MADE WITH BOOTS OR ENGINEER APPROVED EQUAL.

2 S1813 **DETAIL - LEACHATE COLLECTION PIPING AND VAULTS**
SCALE: 1/2"=1'-0"



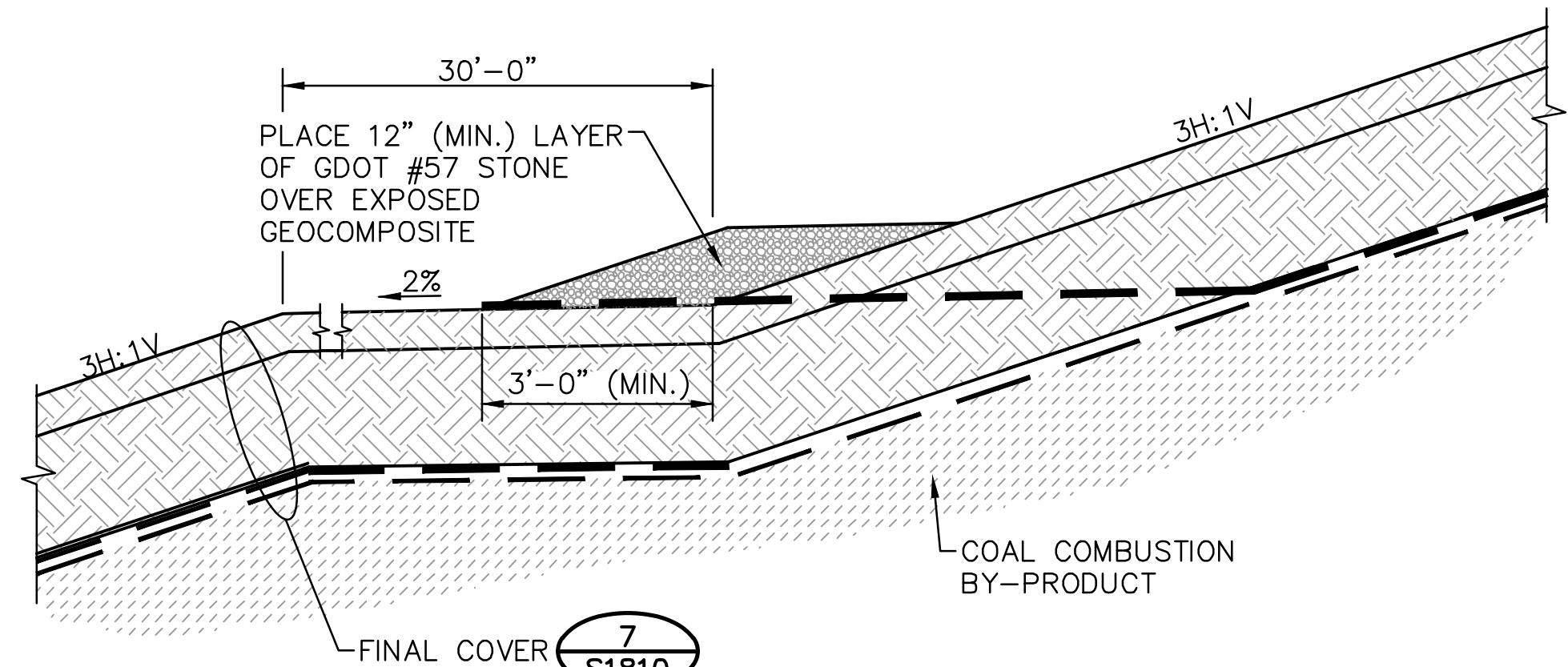
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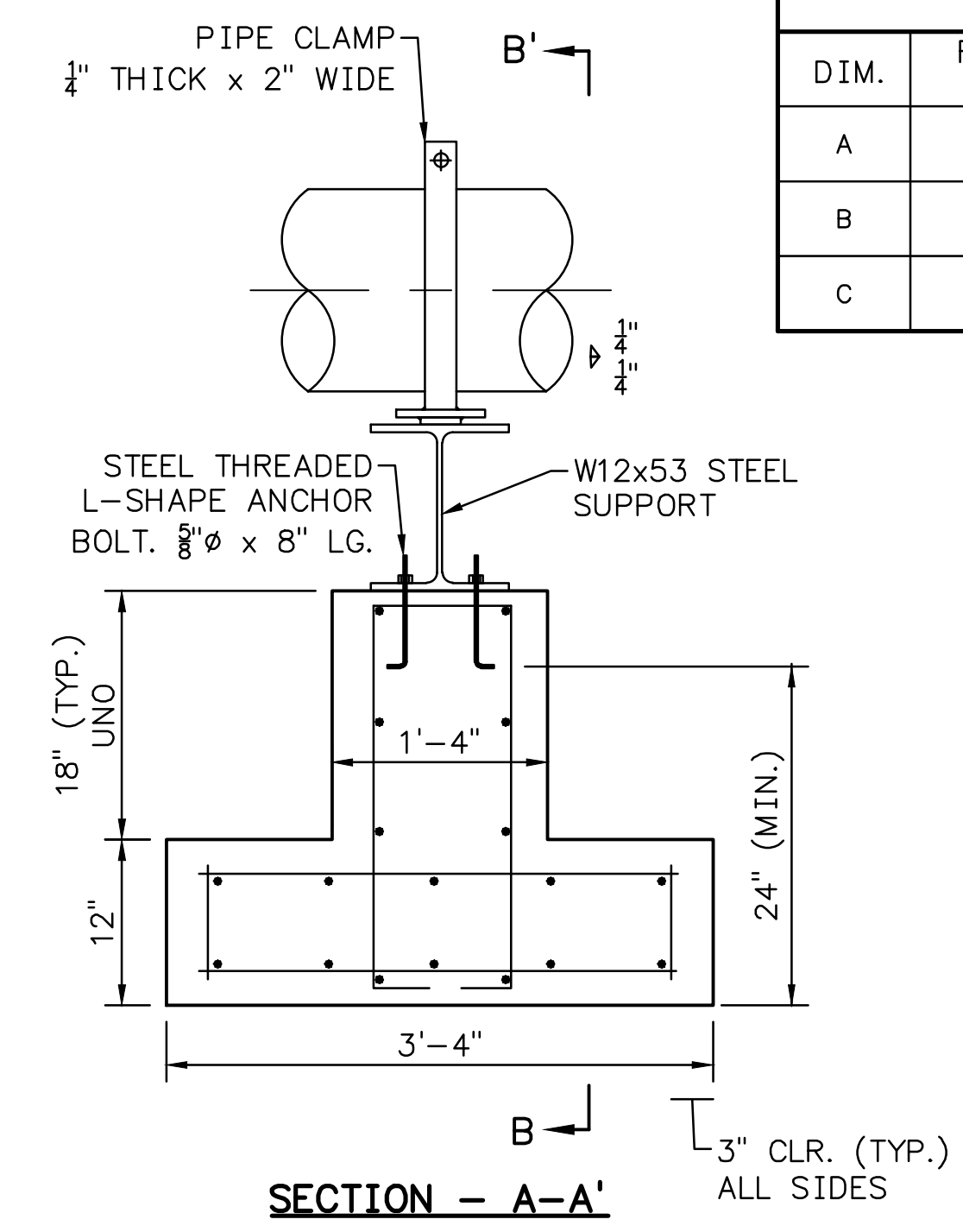
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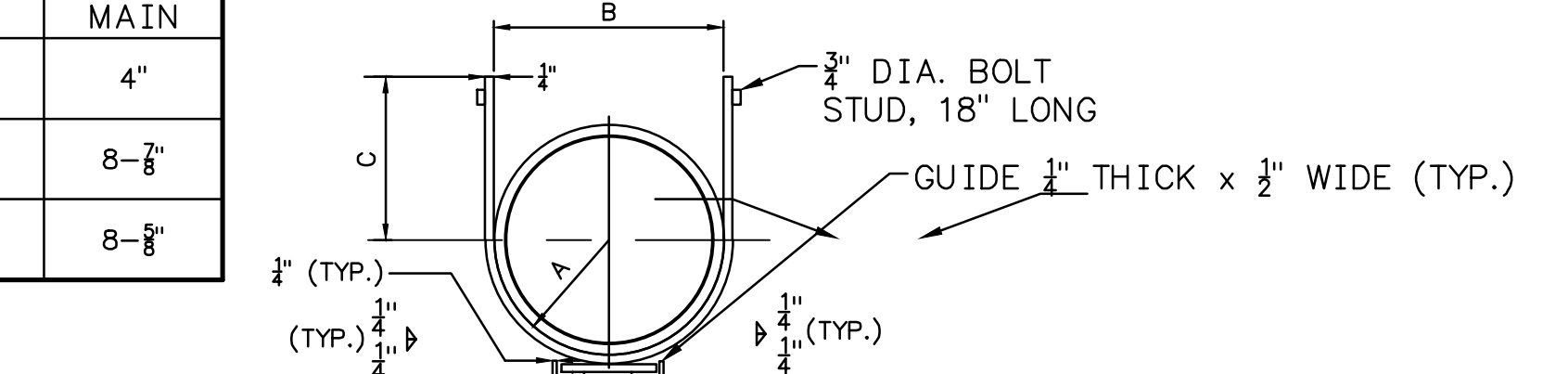
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1 DETAIL - GEOCOMPOSITE DAYLIGHT ON BENCH
 S1814 SCALE: 1/2"=1'-0"



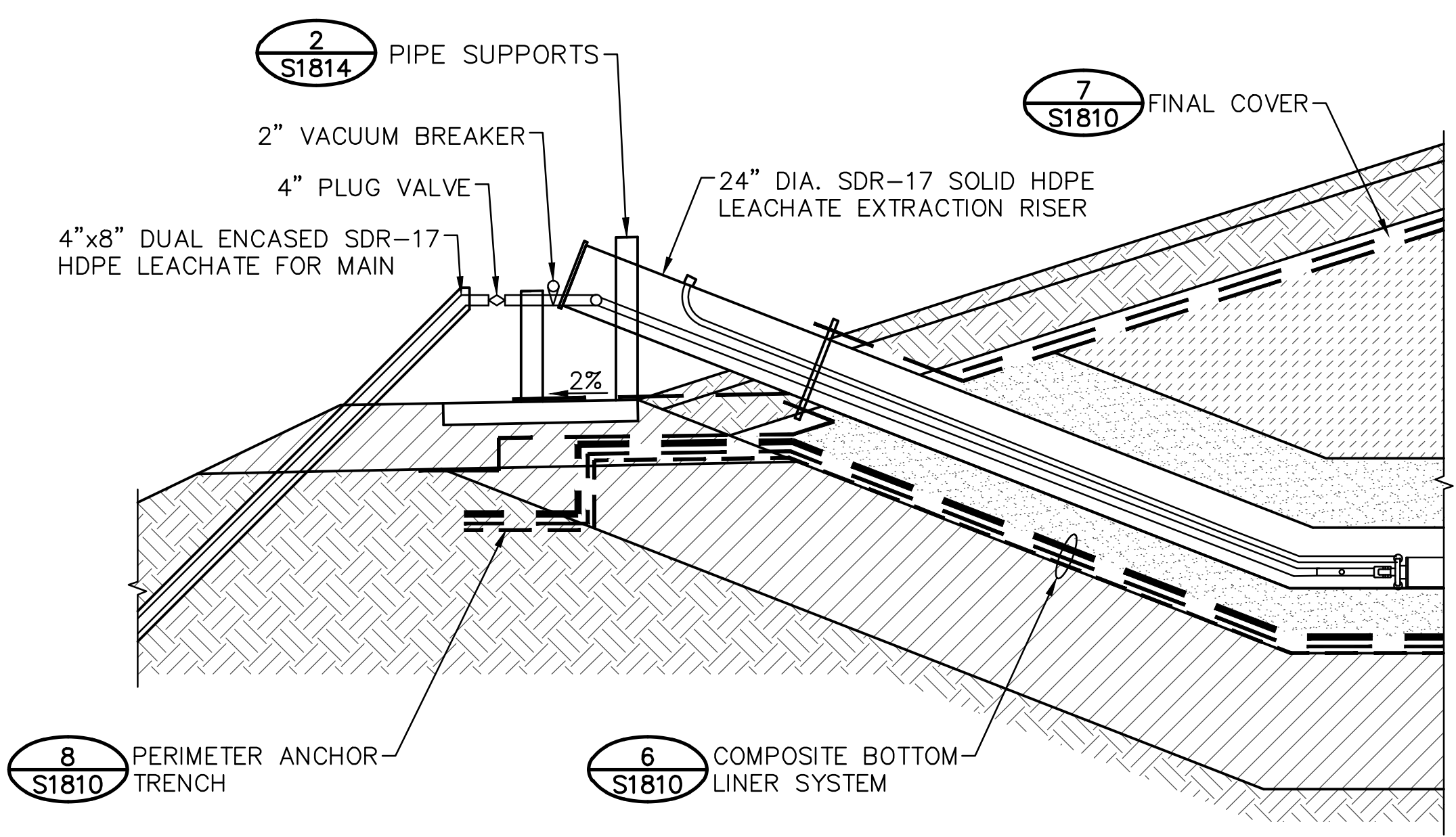
PIPE SUPPORT DIMENSION TABLE		
DIM.	RISER PIPE	FORCE MAIN
A	24"	4"
B	24-7/8"	8-5/8"
C	18-5/8"	8-5/8"



NOTE:
 ALL REBAR TO BE #5'S @ 8" O.C. UNLESS NOTED OTHERWISE

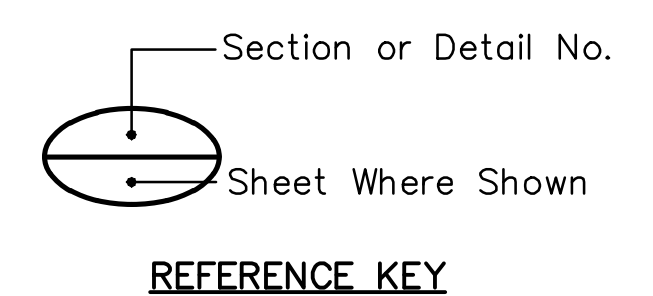
NOTE:
 ONLY ONE FORCE MAIN SHOWN FOR CLARITY.

2 DETAIL - PIPE SUPPORT
 S1814 SCALE: 1"=1'-0"



NOTE:
 LINER BOOT/CLAMP ASSEMBLY TO BE COMPRISED OF HDPE SKIRT AND BOOT EXTRUSION WELDED TO THE HDPE GEOMEMBRANE. SKIRT SHALL EXTEND NO LESS THAN 24 INCHES IN ALL DIRECTIONS FROM THE PIPE.

3 DETAIL - LINER BOOT/CLAMP ASSEMBLY
 S1814 SCALE: 1/2"=1'-0"



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SCALE	PROJ. I.D.	DRAWING NUMBER	SHT	CONTD	REV
AS SHOWN	175618707	S1814	1	FINAL	0