GEORGIA POWER COMPANY

PLANT SCHERER

COAL COMBUSTION RESIDUALS (CCR) LANDFILL

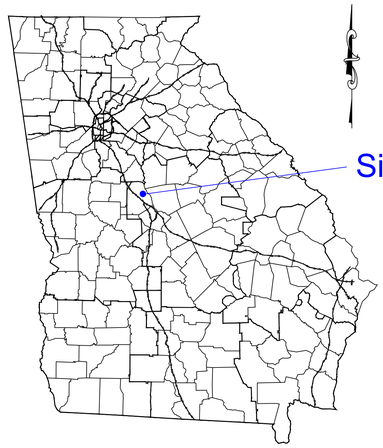
PERMIT DRAWINGS

MONROE COUNTY, GEORGIA

OCTOBER 2022

DRAWING INDEX:

LOCATION MAP
SCALE AS SHOWN



MONROE COUNTY
GEORGIA

LEGEND:

COAL COMBUSTION RESIDUALS LANDFILL AREA

RESPONSIBLE OFFICIAL	CONSULTANT	ADDRESS
DIRECTOR ENVIRONMENTAL AFFAIRS GEORGIA POWER COMPANY BIN 10221 241 RALPH MCGILL BLVD. ATLANTA, GEORGIA 30308 (404) 506–6505	SOUTHERN COMPANY GENERATION GARY McWHORTER BIN 10160 241 RALPH McGILL BLVD. ATLANTA, GEORGIA 30308 TEL: (404) 506–7291	PLANT SCHERER 10986 GEORGIA 87 JULIETTE, GA 31046

PROPERTY OWNER	CCR LANDFILL PERMIT APPLICATION CONSULTANT
GEORGIA POWER COMPANY 241 RALPH McGILL BLVD. ATLANTA, GEORGIA 30308	HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. [HHNT, INC.] 3920 ARKWRIGHT ROAD, SUITE 101 MACON, GEORGIA 31210 TEL: (478) 743–7175

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 10:13:44 -04'00'

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY M. McWHORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

NOTES:
1. COAL COMBUSTION BY–PRODUCTS AND COAL COMBUSTION RESIDUALS SHALL HAVE THE SAME MEANING IN THESE PERMIT DRAWINGS.
2. PERMIT REVISION HISTORY: THE ORIGINAL PERMIT DRAWINGS FOR THE PLANT SCHERER CCR LANDFILL WERE PREPARED BY SOUTHERN COMPANY GENERATION ENGINEERING AND CONSTRUCTION SERVICES (SCGECS). THESE PERMIT DRAWINGS WERE REVIEWED BY GEORGIA EPD AND APPROVED IN SEPTEMBER 2009 AS PART OF THE FACILITY'S SOLID WASTE HANDLING PERMIT WITH SUBSEQUENT REVISIONS TO THE DRAWINGS APPROVED BY GEORGIA EPD THROUGH PERMIT MODIFICATIONS. HODGES, HARBIN, NEWBERRY, AND TRIBBLE INC. (HHNT) HAS ASSISTED GEORGIA POWER COMPANY IN PREPARATION OF THE CCR LANDFILL PERMIT AS REQUIRED BY THE NEW SOLID WASTE RULE 391–4–.10(9)(a) FOR COAL COMBUSTION RESIDUAL UNITS. MINOR PLAN REVISIONS AND UPDATES HAVE BEEN MADE AS PART OF THE NEW CCR LANDFILL PERMITTING PROCESS AND ARE INCLUDED HEREIN. AT THE REQUEST OF GEORGIA EPD AND AS PART OF THE NEW CCR PERMIT PROCESS, ALL PREVIOUS PLAN REVISION NOTES FOR THE FACILITY'S ORIGINAL SOLID WASTE HANDLING PERMIT HAVE BEEN REMOVED.

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

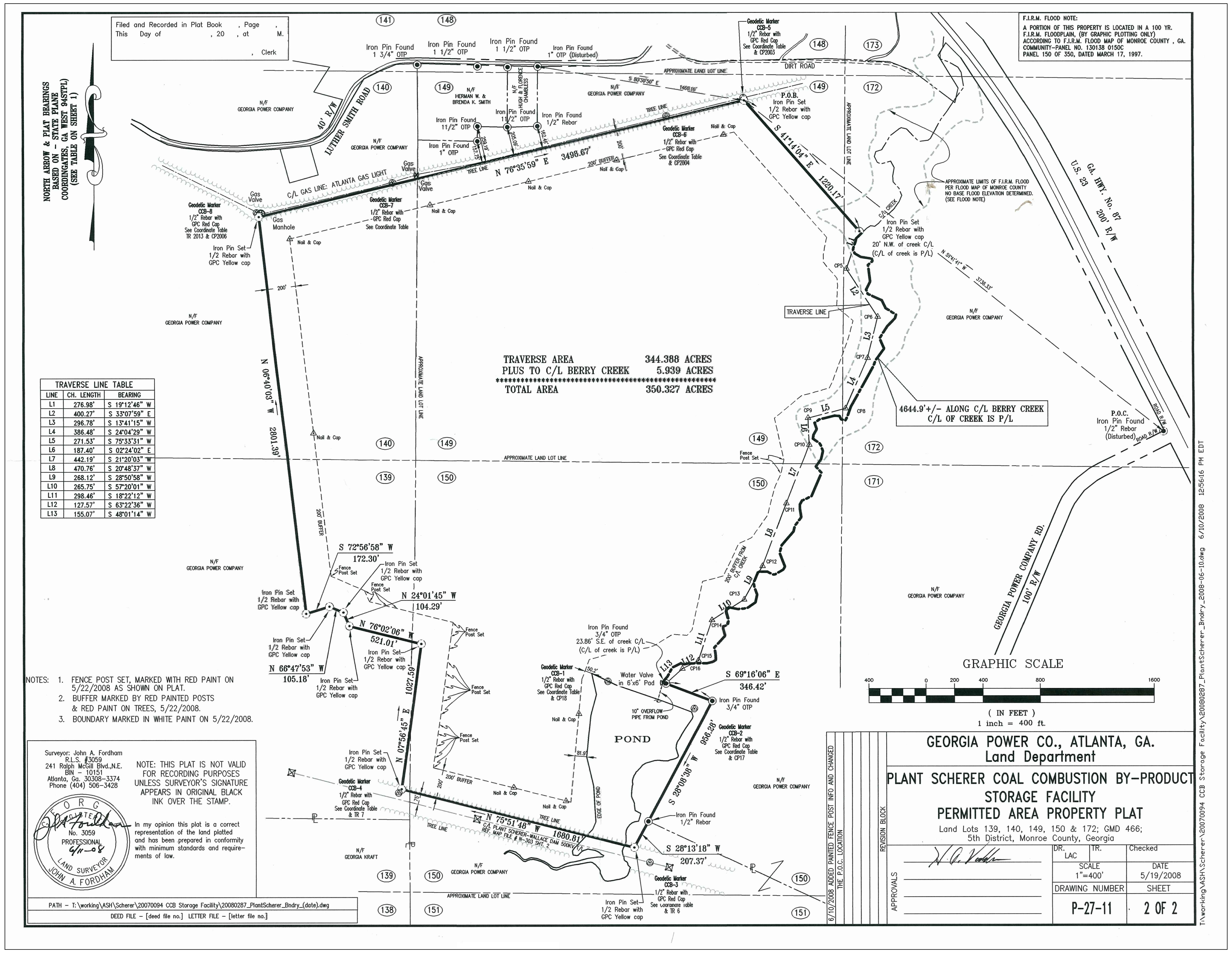
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
TITLE SHEET AND DRAWING INDEX

REVISION	DATE
0	10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CH'KD	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11000	1	FINAL	0

ANSI F: 40x28 Acad2008



TRAVERSE LINE TABLE		
LINE	CH. LENGTH	BEARING
L1	276.98'	S 19°12'46" W
L2	400.27'	S 33°07'59" E
L3	296.78'	S 13°41'15" W
L4	386.48'	S 24°04'29" W
L5	271.53'	S 75°33'31" W
L6	187.40'	S 02°24'02" E
L7	442.19'	S 21°20'03" W
L8	470.76'	S 20°48'37" W
L9	268.12'	S 28°50'58" W
L10	265.75'	S 57°20'01" W
L11	298.46'	S 18°22'12" W
L12	127.57'	S 63°22'36" W
L13	155.07'	S 48°01'14" W

Legal Description for Plant Scherer Coal Combustion By-Product Storage Facility Permitted Area Property Plat
GPC Map File No: P-27-11

Commence at a found ½" rebar marking the intersection of the westerly right of way of Georgia Highway Number Eighty Seven (87) and the northerly right of way of Georgia Power Company Road, said ½" rebar has state plane coordinates (Georgia West – NAD 83 (1994)) of x = 2413766.98 feet and y = 1119284.47 feet; thence North 51°41'41" West along a grid bearing for a distance of 3736.33 feet to set ½" rebar with yellow cap marked GPC, said ½" rebar with yellow cap being also the Point of Beginning of the parcel described hereon; thence South 41°14'04" East for a distance of 1220.17 feet to a set ½" rebar with yellow cap marked GPC; thence continue along said bearing for a distance of 20.00 feet to the centerline of Berry Creek; thence southeasterly and southwesterly along said centerline of Berry Creek for a distance of ±4645 feet to a point; thence South 69°16'06" East for a distance of 23.86 feet to a found ¾" open top pipe; thence continue along said bearing for a distance of 346.42 feet to a found ¾" open top pipe; thence South 28°08'38" West for a distance of 956.28 feet to a found ½" rebar; thence South 28°13'18" West for a distance of 207.37 feet to a set ½" rebar with yellow cap marked GPC; thence North 75°51'48" West for a distance of 1680.81 feet to a set ½" rebar with yellow cap marked GPC; thence North 07°56'45" East for a distance of 1027.59 feet to a set ½" rebar with yellow cap marked GPC; thence North 76°02'06" West for a distance of 521.01 feet to a set ½" rebar with yellow cap marked GPC; thence North 24°01'45" West for a distance of 104.29 feet to a set ½" rebar with yellow cap marked GPC; thence North 66°47'53" West for a distance of 105.18 feet to a set ½" rebar with yellow cap marked GPC; thence South 72°56'58" West for a distance of 172.30 feet to a set ½" rebar with yellow cap marked GPC; thence North 06°40'03" West for a distance of 2801.39 feet to a set ½" rebar with yellow cap marked GPC; thence North 76°35'59" East for a distance of 3498.67 feet to the point of beginning and containing 350.33 acres, more or less.

GEORGIA Department of Natural Resources
Environmental Protection Division
Approved
Solid Waste Management Program
Approved By: Keith Stevens

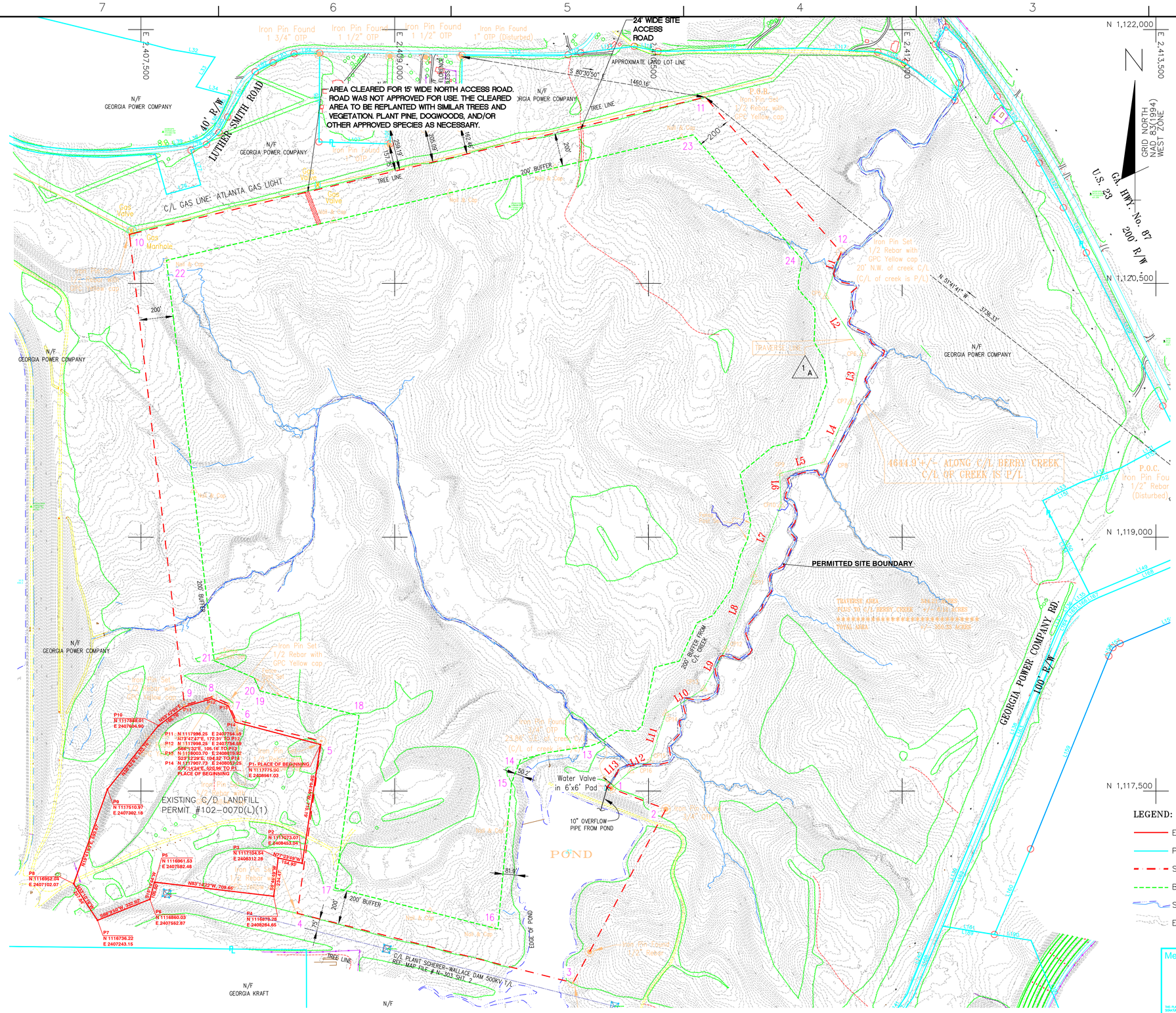
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

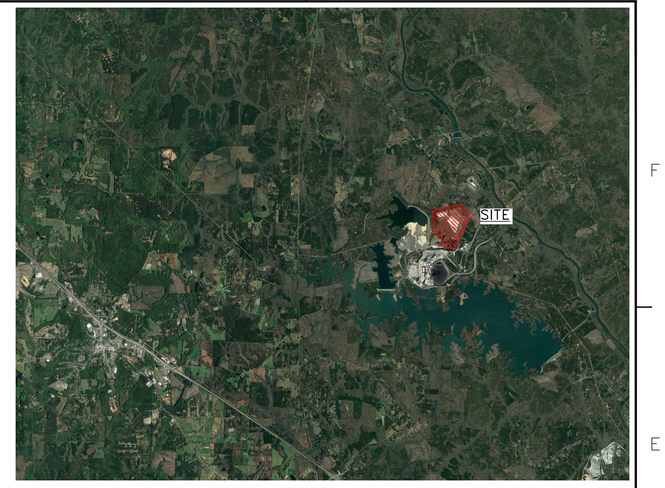
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PERMITTED SITE BOUNDARY
PLAT AND LEGAL DESCRIPTION

REVISION	DATE
REVISION 0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL	AS SHOWN	010505	H1C11001	1	FINAL	0

ANSI F: 40x28 Acad2008





LOCATION MAP
SCALE AS SHOWN

MONROE COUNTY
GEORGIA

BOUNDARY		
POINT	NORTHING	EASTING
1	1117515.58	2410279.34
2	1117392.95	2410603.32
3	1116367.02	2410054.20
4	1116777.54	2408424.29
5	1117795.27	2408566.34
6	1117921.00	2408060.73
7	1118016.25	2408018.26
8	1118057.69	2407921.58
9	1118007.17	2407756.86
10	1120789.67	2407431.81
11	1121600.44	2410835.01
12	1120682.85	2411639.28
BUFFER		
13	1117765.62	2410153.37
14	1117683.84	2409743.47
15	1117545.78	2409690.11
16	1116685.16	2409609.92
17	1116928.73	2408647.68
18	1117945.91	2408789.31
19	1118091.55	2408203.67
20	1118169.22	2408169.04
21	1118270.40	2407933.01
22	1120636.27	2407650.89
23	1121377.95	2410764.08
24	1120639.92	2411410.99

TRAVERSE LINE TABLE		
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GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

NOTES:

1) Ninety (90) percent of the elevations determined from the solid line contours of this topographic map have an accuracy with respect to true elevation of one-half (1/2) contour interval or better and the remaining ten (10) percent of such elevations are not in error of more than one contour interval. In densely wooded areas where heavy brush or tree cover fully obscures the ground, the contours are shown as dashed lines. All contours have been processed utilizing digital terrain modeling methods from the stereoscopic model. All spot elevations are measured in places where the ground is visible.
2) This map was compiled by Metro Engineering & Surveying Co., Inc. using analytical photogrammetric methods. Contours portrayed as dashed lines should be considered approximate. This map has not been field verified. Prior to use as a basis for design and or construction, it should be field verified.
3) The survey plat of the site boundary indicates buffer limits resulting from tangent intersections corresponding to 200 ft. offsets along Berry Creek. These intersections, flagged/marked during the ground survey, resulted in a buffer greater than 200 ft. at these intersection points. The actual buffer limits indicated on the topo maps and site design drawings uses curved connections centered along Berry Creek that correspond to the minimum 200 ft. buffer requirement. The buffer limits corresponding to these curved connections will be resurveyed prior to construction.

LEGEND:
- EXISTING C&D LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- STREAM OR CREEK
- EXISTING CONTOURS

GRAPHIC SCALE
250 125 0 125 250 375 500 625 750
(IN FEET)
1 inch = 250 ft.

Metro Engineering & Surveying Co., Inc.
Engineers • Surveyors • Photogrammetrist
Clayton / Tara Airport
186 Selfridge Road • Hampton, GA 30228
Phone: 770-707-0777
Fax: 770-707-0755
www.metro-engineering.com
THIS PLAT IS NOT VALID UNLESS SURVEYOR'S SIGNATURE APPEARS IN BLACK INK.
"QUALITY SERVICE SINCE 1957"

GEORGIA REGISTERED No. 12997 PROFESSIONAL Engineer — GARY N. McWHORTER — 10/25/22

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER — R. BRANT LANE — 10/25/22

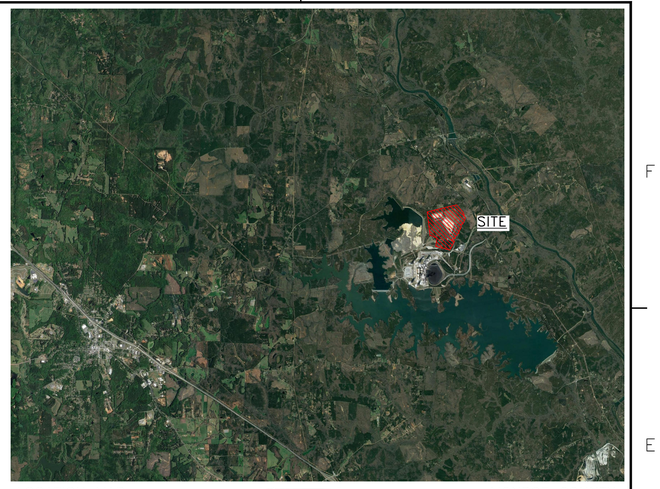
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 0	DATE 10-24-2022	ANR		RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
SITE TOPOGRAPHIC SURVEY

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	010505	H1C11002	1	FINAL	0

ANSI F: 40x28 Acad2008



LOCATION MAP
SCALE AS SHOWN

MONROE COUNTY
GEORGIA

LEGEND:

- EXISTING C&D LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- 25' WETLAND & STREAM BUFFER
- LIMITS OF WASTE
- STREAM OR CREEK
- EXISTING CONTOURS
- WETLAND
- 100 YEAR FLOOD ZONE
- PIEZOMETER LOCATION

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Approved By: _____

NOTE:

1. UPDATED WETLAND AND STREAM INFORMATION FOR PROPOSED CELL 3 IS PROVIDED IN CELL 3 DESIGN PLANS, SHEETS H1C1056–H1C1060, PREPARED BY HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. DATED JUNE 11, 2018.

GRAPHIC SCALE
(IN FEET)
1 inch = 250 ft.

Metro Engineering & Surveying Co., Inc.
Engineers • Surveyors • Photogrammetrist
Clayton / Tara Airport
186 Selfridge Road • Hampton, GA 30228
Phone: 770-707-0777
Fax: 770-707-0755
www.metro-engineering.com
THIS PLAT IS NOT VALID UNLESS SURVEYOR'S SIGNATURE APPEARS IN BLACK INK.
"QUALITY SERVICE SINCE 1967"

GEORGIA REGISTERED No. 12087 PROFESSIONAL Engineer — JOHN N. MCWHORTER — 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER — R. BRANT LANE — 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

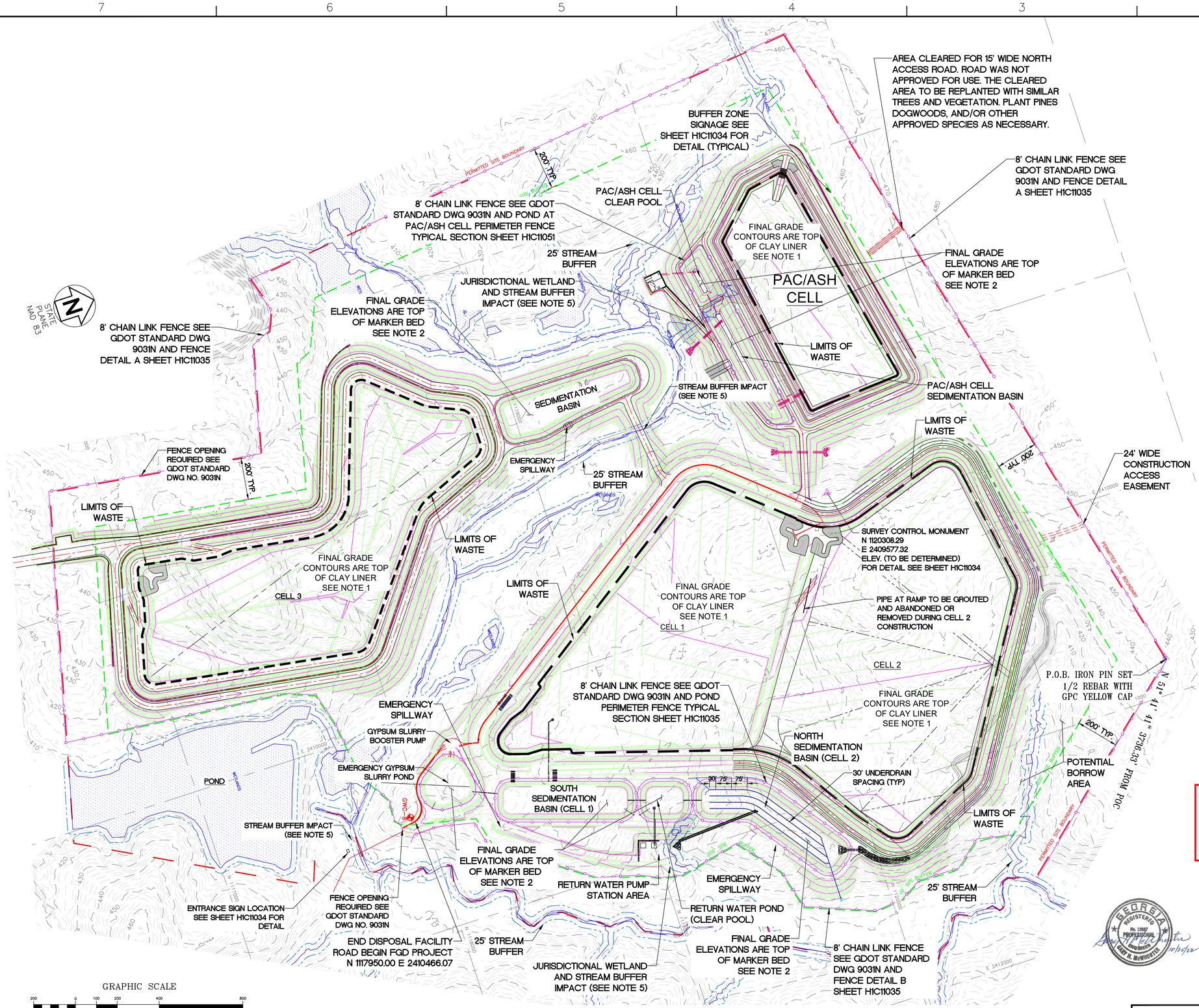
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
WETLAND BOUNDARIES, 100' FLOOD PLAIN
STREAM BUFFERS AND BORING LOCATIONS

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
AMC		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	010505	H1C11003	1	FINAL	0

ANSI F: 40x28 Acad2008



NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER.
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL LAND DISTURBING ACTIVITIES SHALL CONFORM TO THE MINIMUM REQUIREMENTS FOR CONSERVATION AND ENGINEERING PRACTICES AS PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN THE LATEST EDITION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA AND THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN THAT WILL BE PREPARED FOR CONSTRUCTION ACTIVITIES.
8. THE RETURN WATER POND AND SEDIMENTATION BASINS ARE DESIGNED TO RETAIN THE SURFACE STORM WATER RUN–OFF FROM A 100 YEAR/24 HOUR EVENT IN ADDITION TO APPROXIMATELY 3 DAYS OF RETURN WATER STORAGE. THE 3 DAYS OF RETURN WATER STORAGE ARE NOT APPLICABLE TO THE PAC/ASH CELL SINCE IT IS A DRY STORAGE FACILITY.
9. THE 8' CHAIN LINK FENCE SHALL BE 8' TALL WITH NO BARBED WIRE. REFER TO THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECS SECTION 894 AND SECTION 643.

SURVEY POINT OF CONTROL – CONCRETE MONUMENT WITH BRASS PLATE
NORTHING 1120308.29
EASTING 2409577.32
ELEV. (TO BE DETERMINED)
REFERENCE DRAWING H1C11034

REFERENCE DWGS:
H1C11000 – TITLE SHEET AND DRAWING INDEX

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- CONCRETE CONTROL MONUMENT
- 25' STREAM AND WETLAND BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- PIEZOMETER LOCATION
- LIMITS OF WASTE
- POINT OF BEGINNING
- ROCK DRAIN
- SLOPE PROTECTION

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12987 GARY W. McWHORTER 10/19/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
GENERAL SITE DEVELOPMENT
CELL LAYOUT

REVISION	DATE
0	10–24–2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=200'	010505	H1C11004	1	FINAL	0

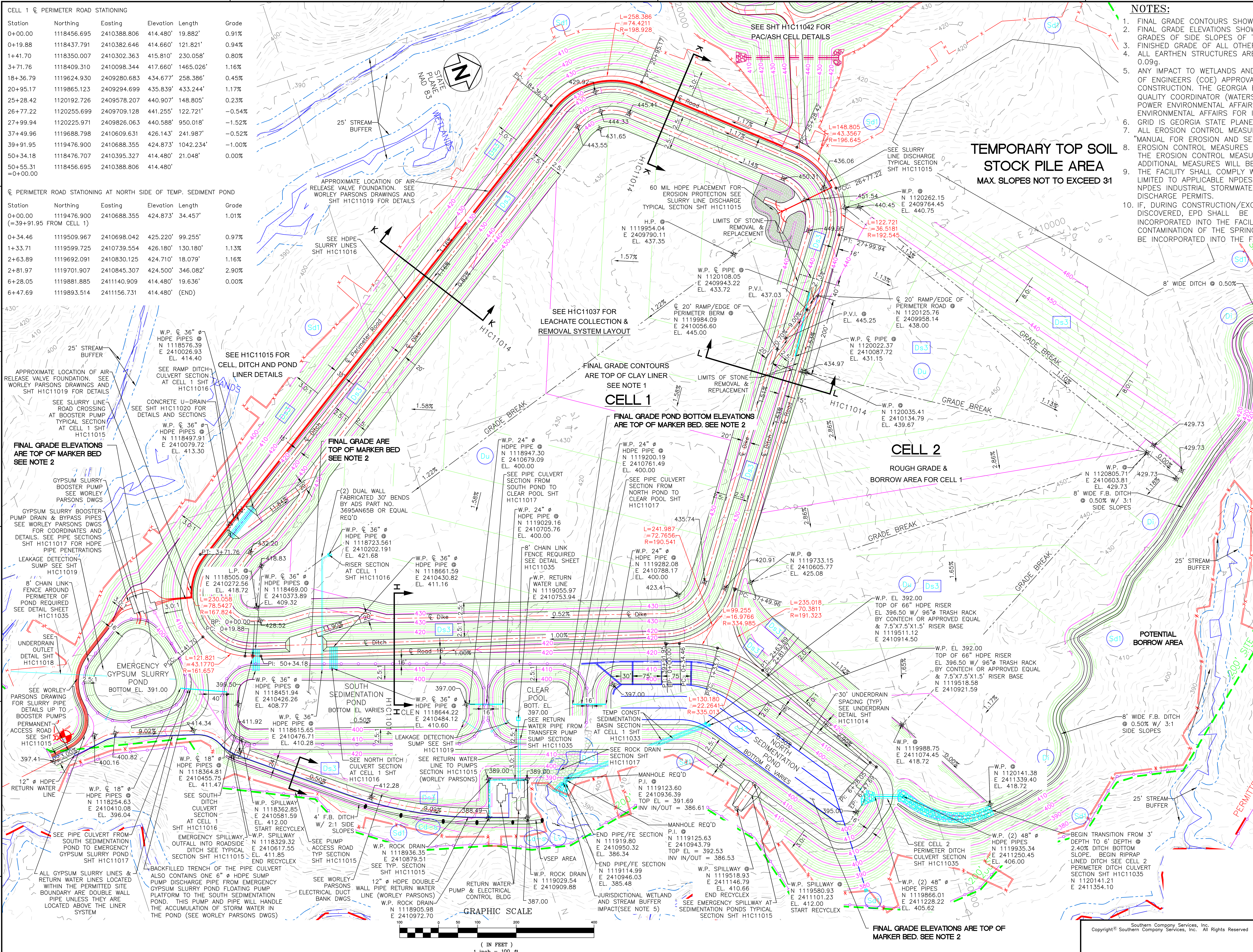
ANSI F: 40x28 Acad2008

CELL 1 ℄ PERIMETER ROAD STATIONING

Station	Northing	Easting	Elevation	Length	Grade
0+00.00	1118456.695	2410388.806	414.480'	19.882'	0.91%
0+19.88	1118437.791	2410382.646	414.660'	121.821'	0.94%
1+41.70	1118350.007	2410302.363	415.810'	230.058'	0.80%
3+71.76	1118409.310	2410098.344	417.660'	1465.026'	1.16%
18+36.79	1119624.930	2409280.683	434.677'	258.386'	0.45%
20+95.17	1119865.123	2409294.699	435.839'	433.244'	1.17%
25+28.42	1120192.726	2409578.207	440.907'	148.805'	0.23%
26+77.22	1120255.699	2409709.128	441.255'	122.721'	−0.54%
27+99.94	1120225.971	2409826.063	440.588'	950.018'	−1.52%
37+49.96	1119688.798	2410609.631	426.143'	241.987'	−0.52%
39+91.95	1119476.900	2410688.355	424.873'	1042.234'	−1.00%
50+34.18	1118476.707	2410395.327	414.480'	21.048'	0.00%
50+55.31 =0+00.00	1118456.695	2410388.806	414.480'		

℄ PERIMETER ROAD STATIONING AT NORTH SIDE OF TEMP. SEDIMENT POND

Station	Northing	Easting	Elevation	Length	Grade
0+00.00 (=39+91.95 FROM CELL 1)	1119476.900	2410688.355	424.873'	34.457'	1.01%
0+34.46	1119509.967	2410698.042	425.220'	99.255'	0.97%
1+33.71	1119599.725	2410739.554	426.180'	130.180'	1.13%
2+63.89	1119692.091	2410830.125	424.710'	18.079'	1.16%
2+81.97	1119701.907	2410845.307	424.500'	346.082'	2.90%
6+28.05	1119881.885	2411140.909	414.480'	19.636'	0.00%
6+47.69	1119893.514	2411156.731	414.480'	(END)	



NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
9. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.
10. IF, DURING CONSTRUCTION/EXCAVATION OF THE SITE, ANY SPRINGS OR SEEPS ARE DISCOVERED, EPD SHALL BE IMMEDIATELY NOTIFIED AND PROTECTIVE MEASURES SHALL BE INCORPORATED INTO THE FACILITY'S DESIGN AND OPERATIONS PLANS TO PREVENT CONTAMINATION OF THE SPRING OR SEEP. SAMPLING OF THE SPRING OR SEEP SHALL ALSO BE INCORPORATED INTO THE FACILITY'S GROUNDWATER SAMPLING PLAN.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM AND WETLAND BUFFER
- FENCE
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

- Sd1 — SILT FENCE (SEE H1C11033)
- Di — DIVERSION (SEE H1C11033)
- Lv — LEVEL SPREADER (SEE H1C11033)
- Du — DUST CONTROL
- Cd-s — STONE CHECK DAM (2"–10" STONE)
- Sd3 — TEMPORARY SEDIMENT BASIN

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11014 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11015 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11017 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11018 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11019 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11021 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11035 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Approved By:

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 GARY R. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REVISION 0 DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

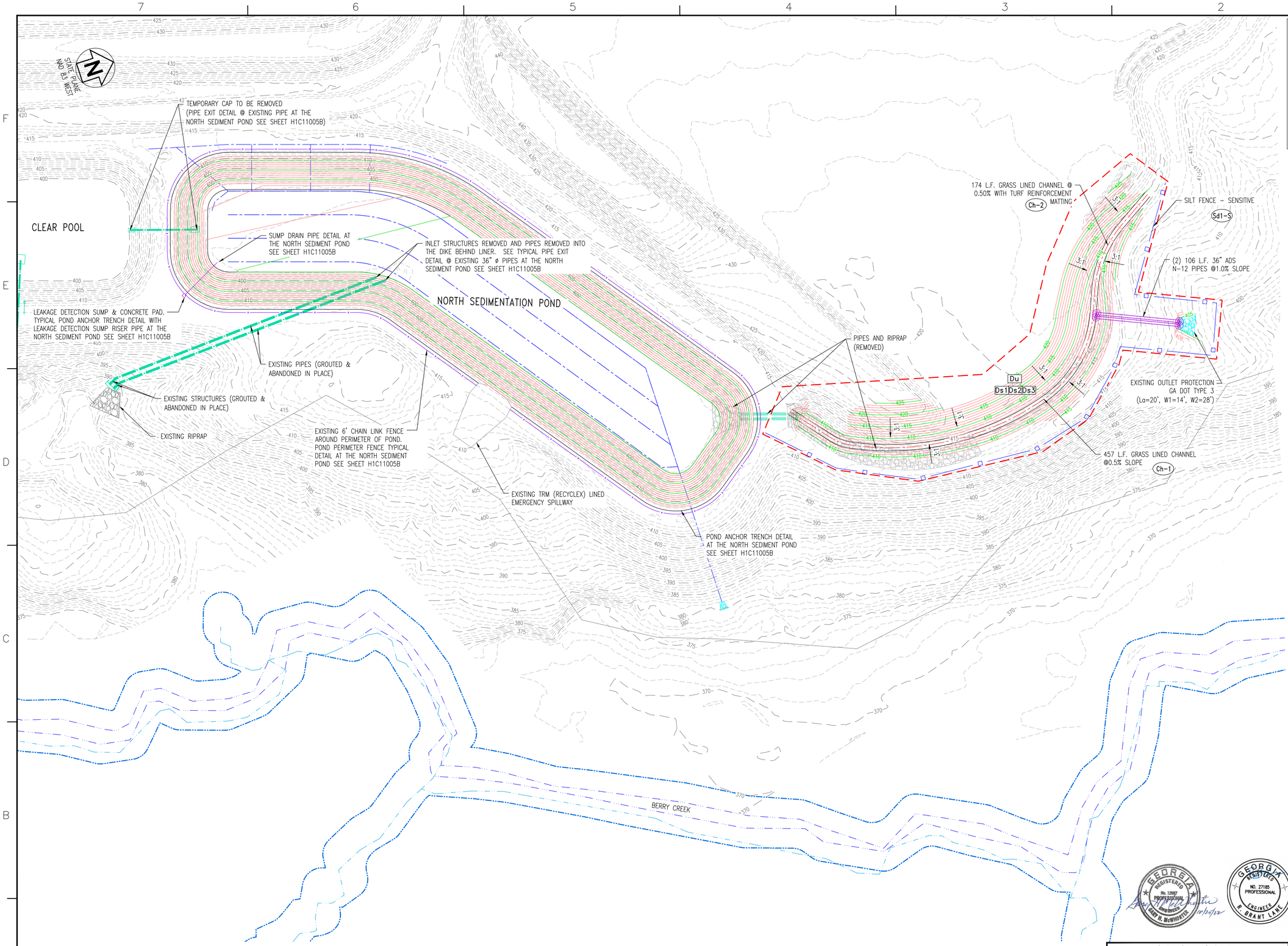
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO.1 SITE DEVELOPMENT
BASE GRADING PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11005	1	FINAL	0

ANSI F: 40x28 Acad2008



LEGEND:

- LIMITS OF DISTURBANCE
- 700 EXISTING GROUND CONTOURS
- EDGE OF WATER
- WATER BUFFER
- EXISTING FENCE
- EXISTING PIPE
- 700 FINAL GRADE CONTOURS
- PROPOSED DITCH ℄
- PROPOSED PIPE

EROSION CONTROL LEGEND:

Ds1	DIST. AREA WITH MULCH
Ds2	DIST. AREA WITH TEMPORARY COVER
Ds3	DIST. AREA WITH PERMANENT COVER
Du	DUST CONTROL
Sd1-S	SILT FENCE - SENSITIVE (SEE H1C11033)
Ch-1	CHANNEL STABILIZATION - VEGETATION
Ch-2	CHANNEL STABILIZATION - TRM

NOTES:

1. THIS SHEET REPRESENTS FINAL POND GRADES AND GRADING MODIFICATIONS NECESSARY TO COMPLETE THE DOUBLE LINER SYSTEM FOR THE NORTH SEDIMENTATION POND.
2. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC., 1469 HWY 20 WEST, MCDONOUGH, GA 30253, PROJECT NO. 12967, DATE OF CAPTURE: 10-06-2010.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
4. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

GEORGIA REGISTERED No. 12967 PROFESSIONAL ENGINEER GRANT H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 10:13:08 -04'00'

REVISION	DATE
0	10-24-2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

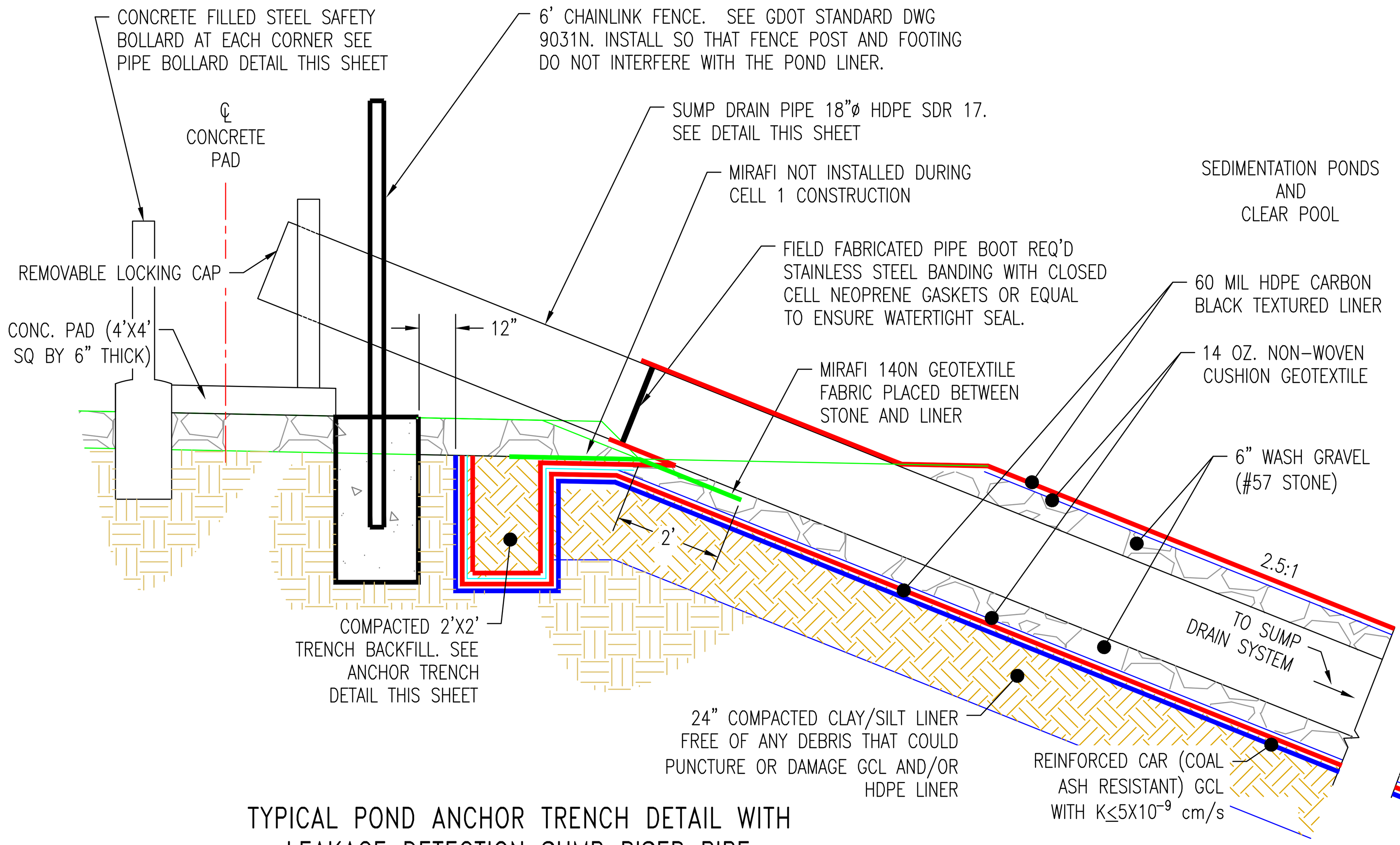
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
NORTH SEDIMENTATION POND
DOUBLE LINER SYSTEM COMPLETION

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=50'	010505	H1C11005A	1	FINAL	0

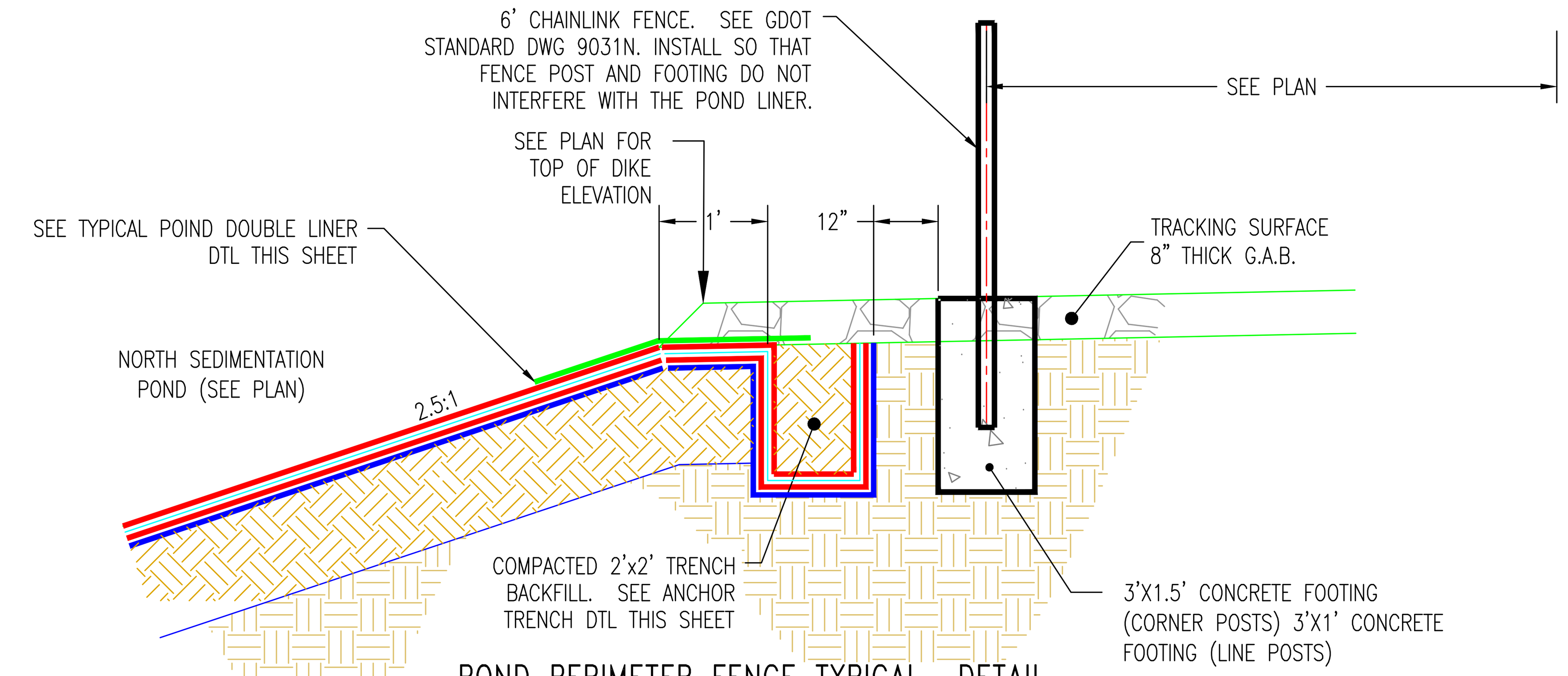
ANSI F: 40x28 Acad2004



TYPICAL POND ANCHOR TRENCH DETAIL WITH LEAKAGE DETECTION SUMP RISER PIPE AT THE NORTH SEDIMENT POND

N.T.S.

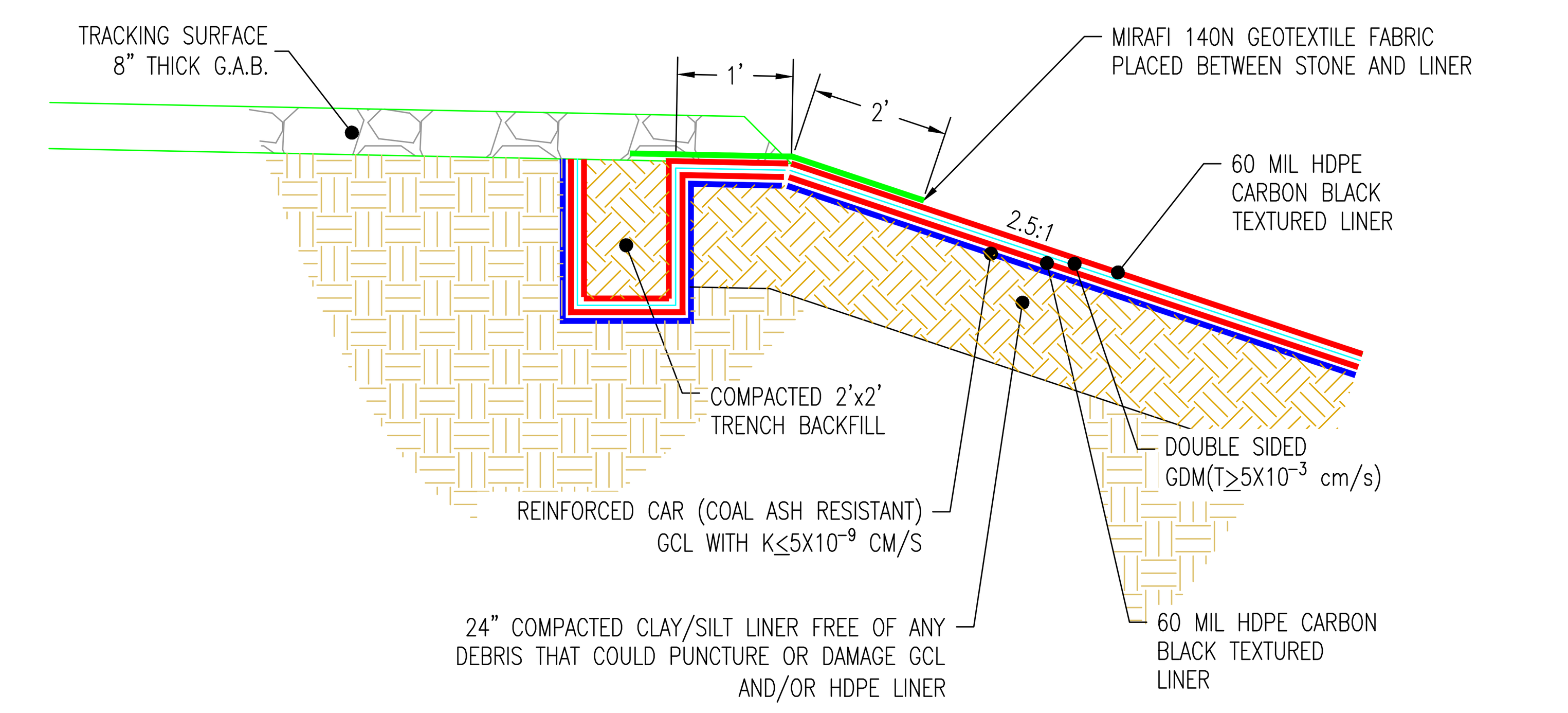
H1C11004, H1C11005, H1C11005A, H1C11006, H1C11007, H1C11008



POND PERIMETER FENCE TYPICAL DETAIL AT THE NORTH SEDIMENT POND

N.T.S.

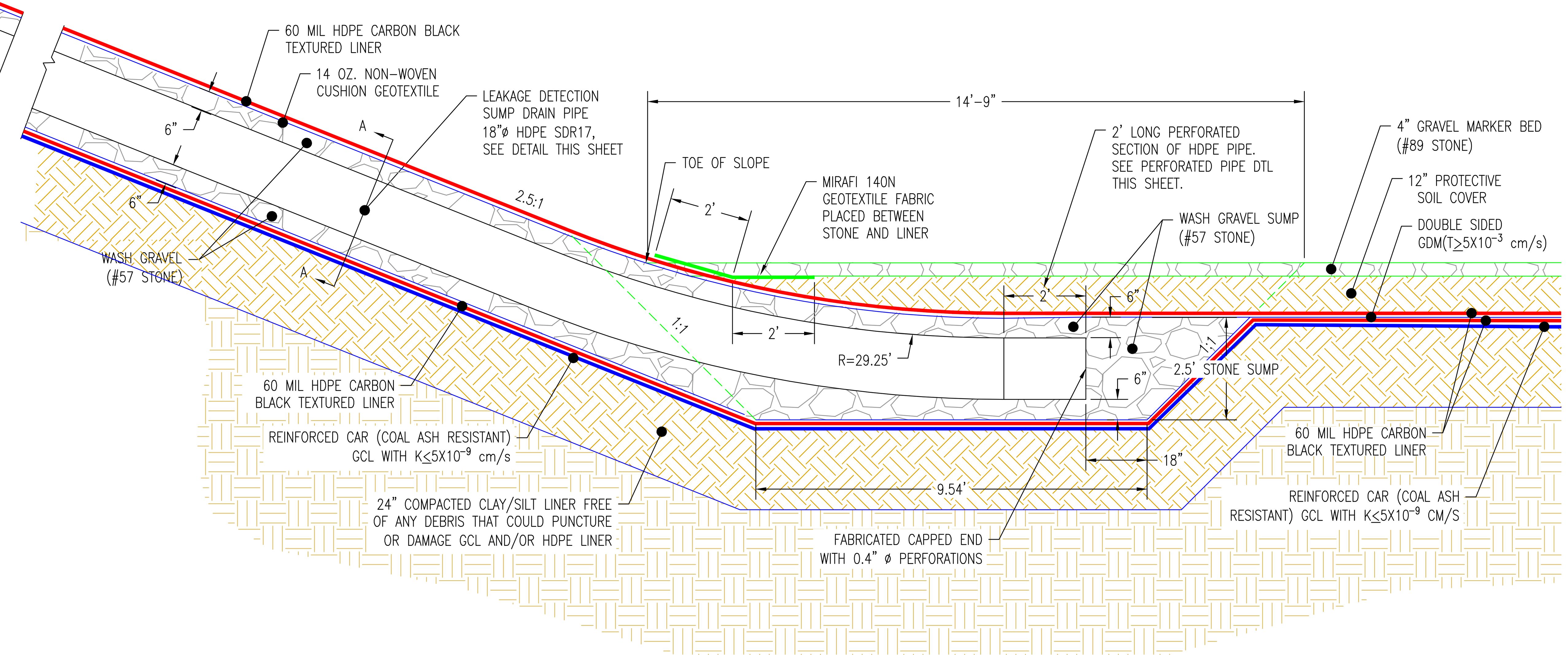
H1C11004, H1C11005, H1C11005A, H1C11007, H1C11008

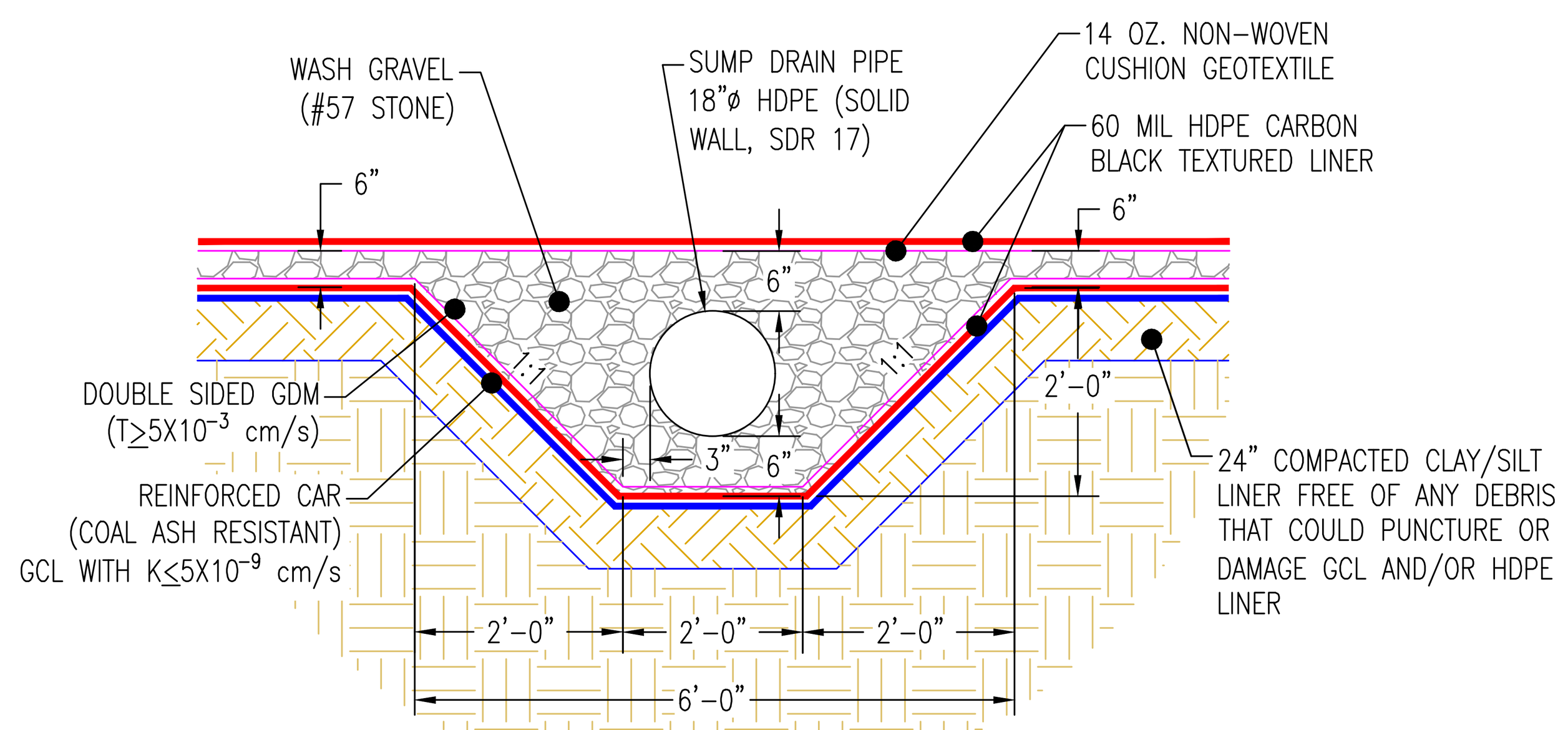


POND ANCHOR TRENCH DETAIL AT THE NORTH SEDIMENT POND

N.T.S.

H1C11004, H1C11005, H1C11005A, H1C11006, H1C11007, H1C11008





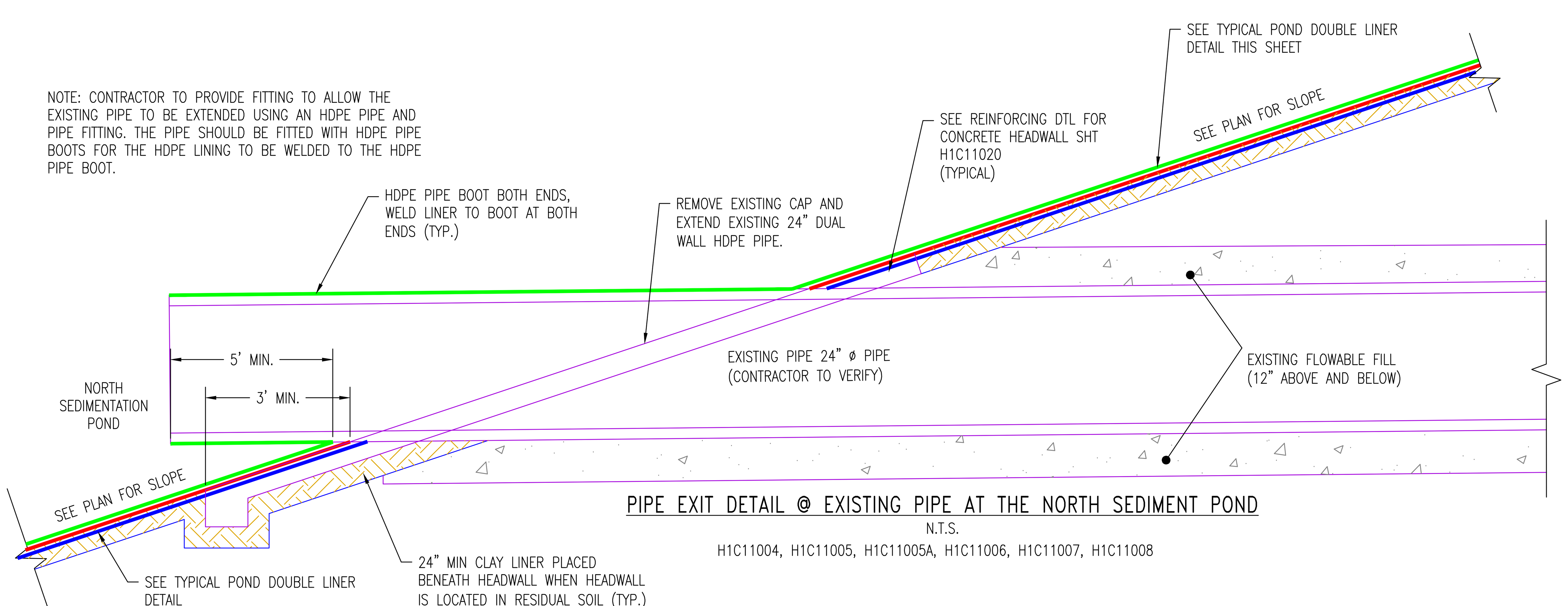
A–A

SUMP DRAIN PIPE DETAIL AT THE NORTH SEDIMENT POND

N.T.S.

H1C11004, H1C11005, H1C11005A, H1C11006, H1C11007, H1C11008

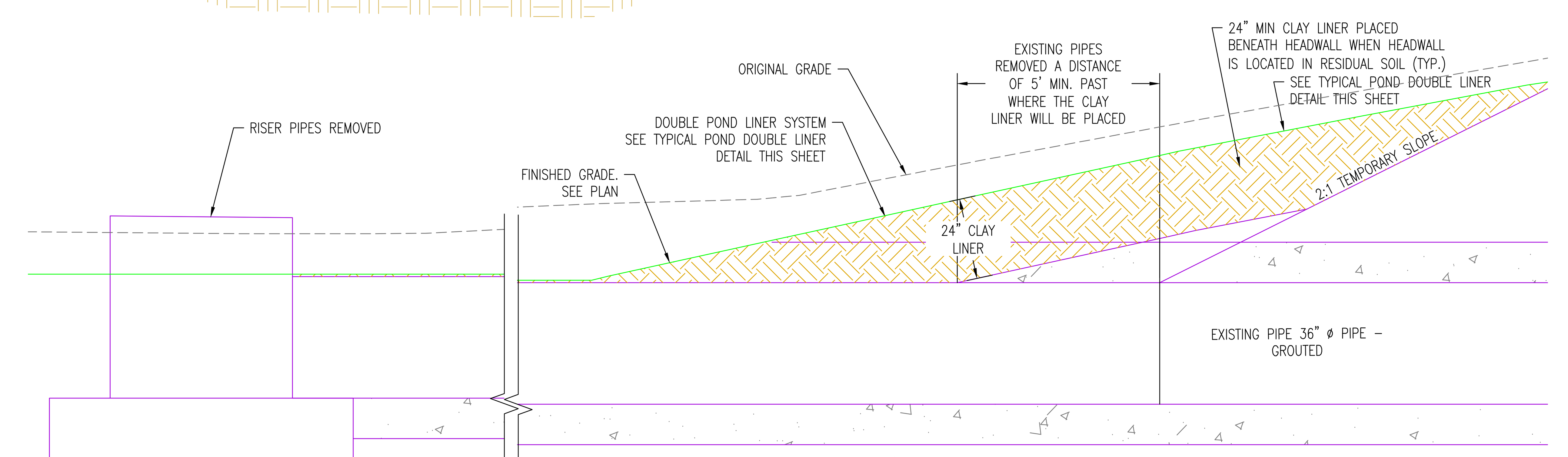
NOTE: CONTRACTOR TO PROVIDE FITTING TO ALLOW THE EXISTING PIPE TO BE EXTENDED USING AN HDPE PIPE AND PIPE FITTING. THE PIPE SHOULD BE FITTED WITH HDPE PIPE BOOTS FOR THE HDPE LINING TO BE WELDED TO THE HDPE PIPE BOOT.



PIPE EXIT DETAIL @ EXISTING PIPE AT THE NORTH SEDIMENT POND

N.T.S.

H1C11004, H1C11005, H1C11005A, H1C11006, H1C11007, H1C11008



TYPICAL PIPE EXIT DETAIL @ EXISTING 36" ø PIPES AT THE NORTH SEDIMENT POND

N.T.S.

H1C11004, H1C11005, H1C11005A, H1C11006, H1C11007, H1C11008

GEORGIA Department of Natural Resources, Environmental Protection Division
Approved
Solid Waste Management Program
Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12887 GARY H. McWHORTER 10/25/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 10/25/22

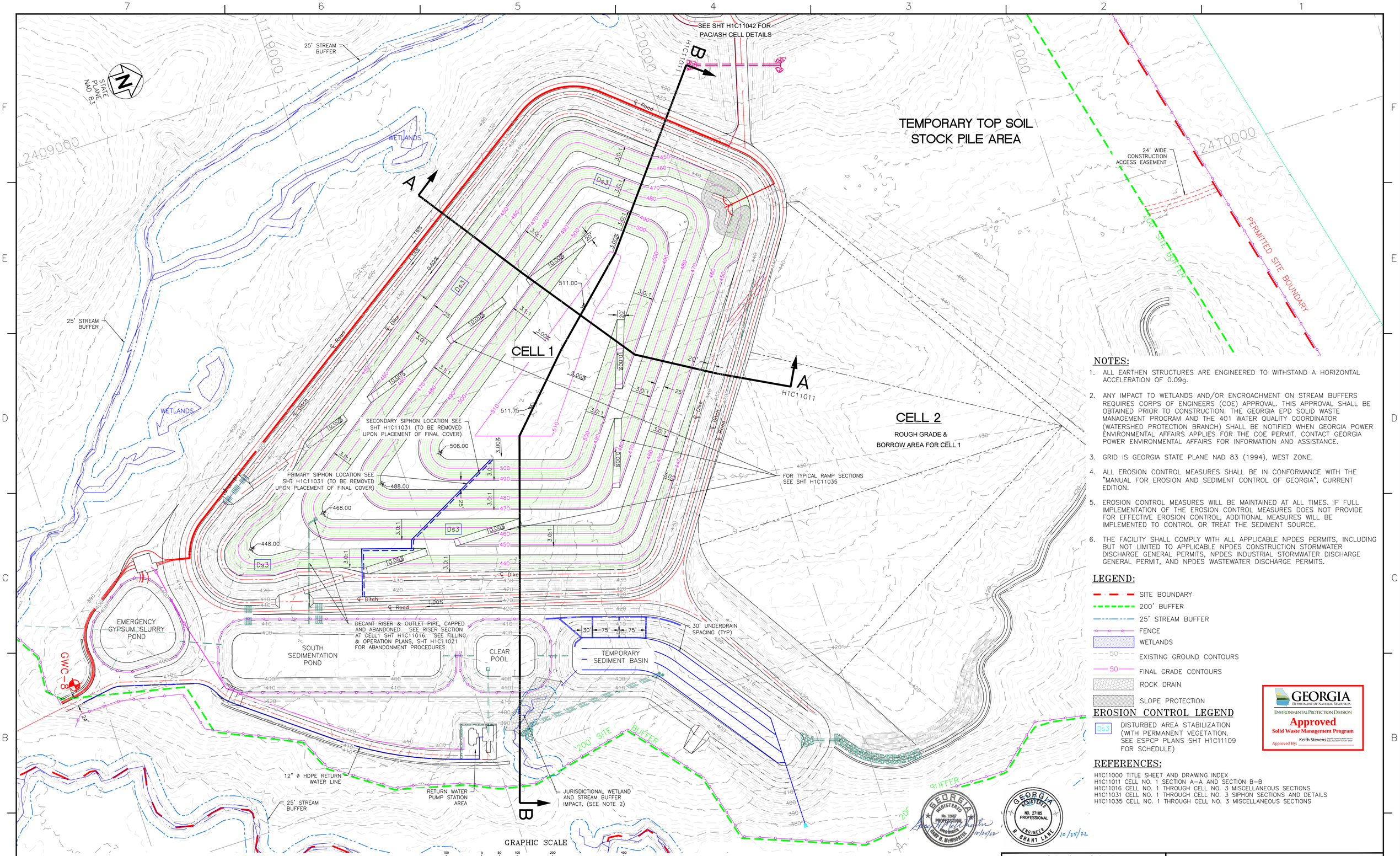
Southern Company Generation Engineering and Construction Services FOR Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
NORTH SEDIMENT POND
MISCELLANEOUS SECTIONS

REVISION	DATE	DESCRIPTION	BY	CHK'D
0	10-24-2022	CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	ANR	RBL

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11005B	1	FINAL	0

ANSI F: 40x28 Acad2004



NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA", CURRENT EDITION.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM BUFFER
- FENCE
- WETLANDS
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

Ds3 — DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11011 CELL NO. 1 SECTION A–A AND SECTION B–B
H1C11016 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11031 CELL NO. 1 THROUGH CELL NO. 3 SIPHON SECTIONS AND DETAILS
H1C11035 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 12997 PROFESSIONAL ENGINEER — GARY H. McWHORTER — 10/25/22
GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER — R. BRANT LANE — 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

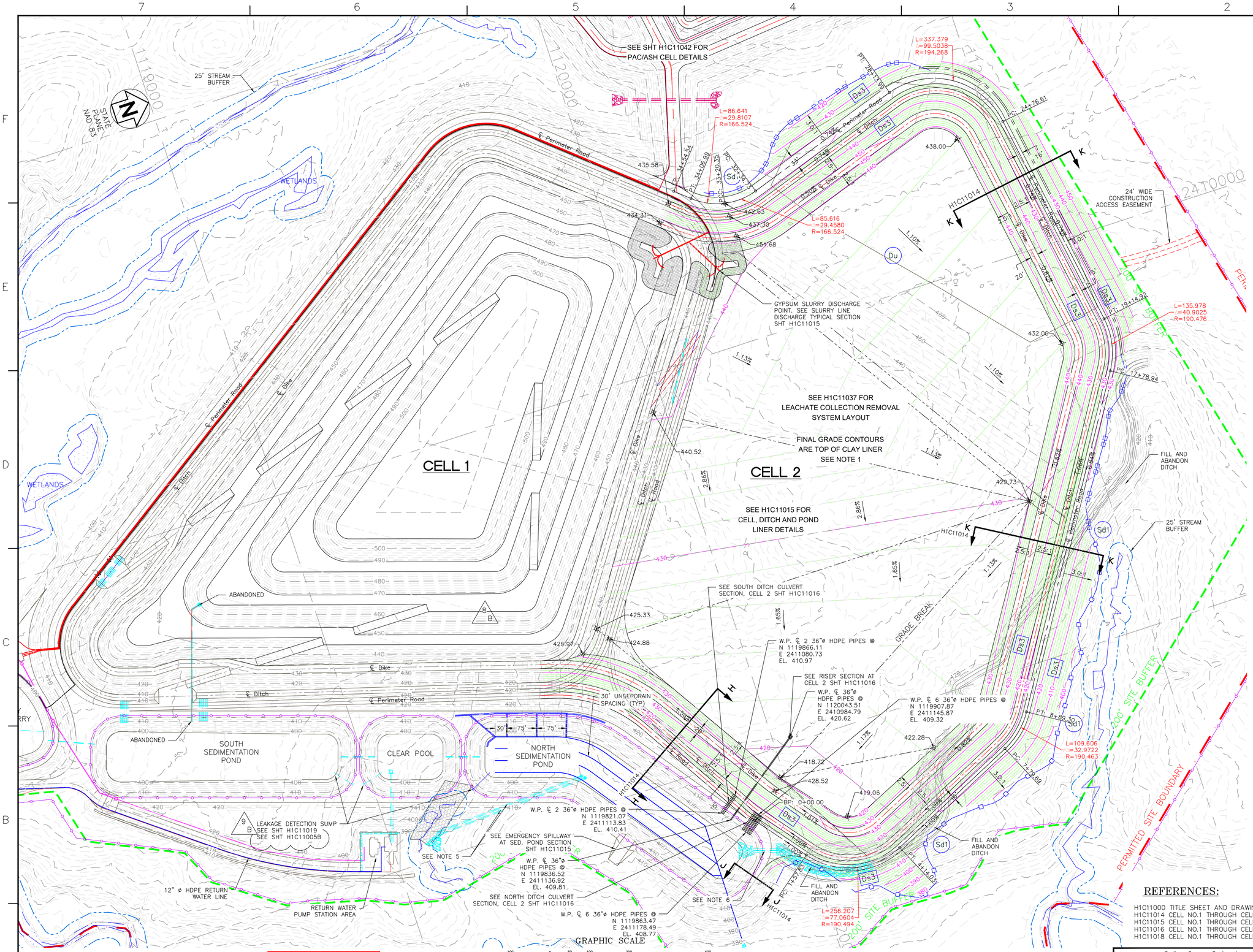
PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO.1
FINAL STACKING PLAN

REVISION	DATE
0	10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	**H1C11006**	1	FINAL	0

ANSI F: 40x28 Acad2004



CELL 2 ℄ PERIMETER ROAD STATIONING

Station	Northing	Easting	Elevation	Length	Grade
0+00.00	1119893.586	2411156.830	414.480'	34.601'	1.00%
1+57.83	1119990.828	2411281.142	416.057'	256.207'	1.03%
4+14.03	1120221.700	2411336.123	418.690'	153.776'	1.00%
7+79.69	1120552.724	2411180.787	422.345'	109.606'	0.82%
8+89.30	1120633.481	2411108.927	423.244'	417.237'	0.84%
17+78.94	1121102.896	2410353.207	430.700'	135.978'	0.71%
19+14.92	1121129.105	2410222.704	431.671'	561.690'	0.74%
24+76.61	1121040.148	2409668.104	435.811'	337.379'	0.90%
28+13.99	1120789.624	2409509.420	438.845'	420.747'	0.74%
32+34.73	1120390.167	2409641.566	441.958'	85.616'	0.79%
33+20.35	1120305.659	2409646.903	442.633'	65.841'	−1.34%
34+06.99	1120228.677	2409609.319	441.467'	47.544'	−1.18%
34+54.54	1120192.726	2409578.207	440.907'	(END)	

NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE"MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
8. RISER REMOVED UPON CONVERSION OF TEMPORARY SEDIMENT POND TO PROCESS POND AND OUTLET PIPE PLUGGED AND ABANDONED.
9. TEMPORARY DITCH CULVERT REMOVED UPON CONVERSION OF TEMPORARY SEDIMENT POND TO PROCESS POND AND OUTLET PIPE PLUGGED AND ABANDONED.
10. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
11. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.
12. IF, DURING CONSTRUCTION/EXCAVATION OF THE SITE, ANY SPRINGS OR SEEPS ARE DISCOVERED, EPD SHALL BE IMMEDIATELY NOTIFIED AND PROTECTIVE MEASURES SHALL BE INCORPORATED INTO THE FACILITY'S DESIGN AND OPERATIONS PLANS TO PREVENT CONTAMINATION OF THE SPRING OR SEEP. SAMPLING OF THE SPRING OR SEEP SHALL ALSO BE INCORPORATED INTO THE FACILITY'S GROUNDWATER SAMPLING PLAN.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

- Sd1 SILT FENCE (SEE H1C11033)
- Du DUST CONTROL
- Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11014 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11015 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11018 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER JOHN N. MCWHORTER 10/18/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 11:17:24 -04'00'

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	0	DATE	10−24−2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

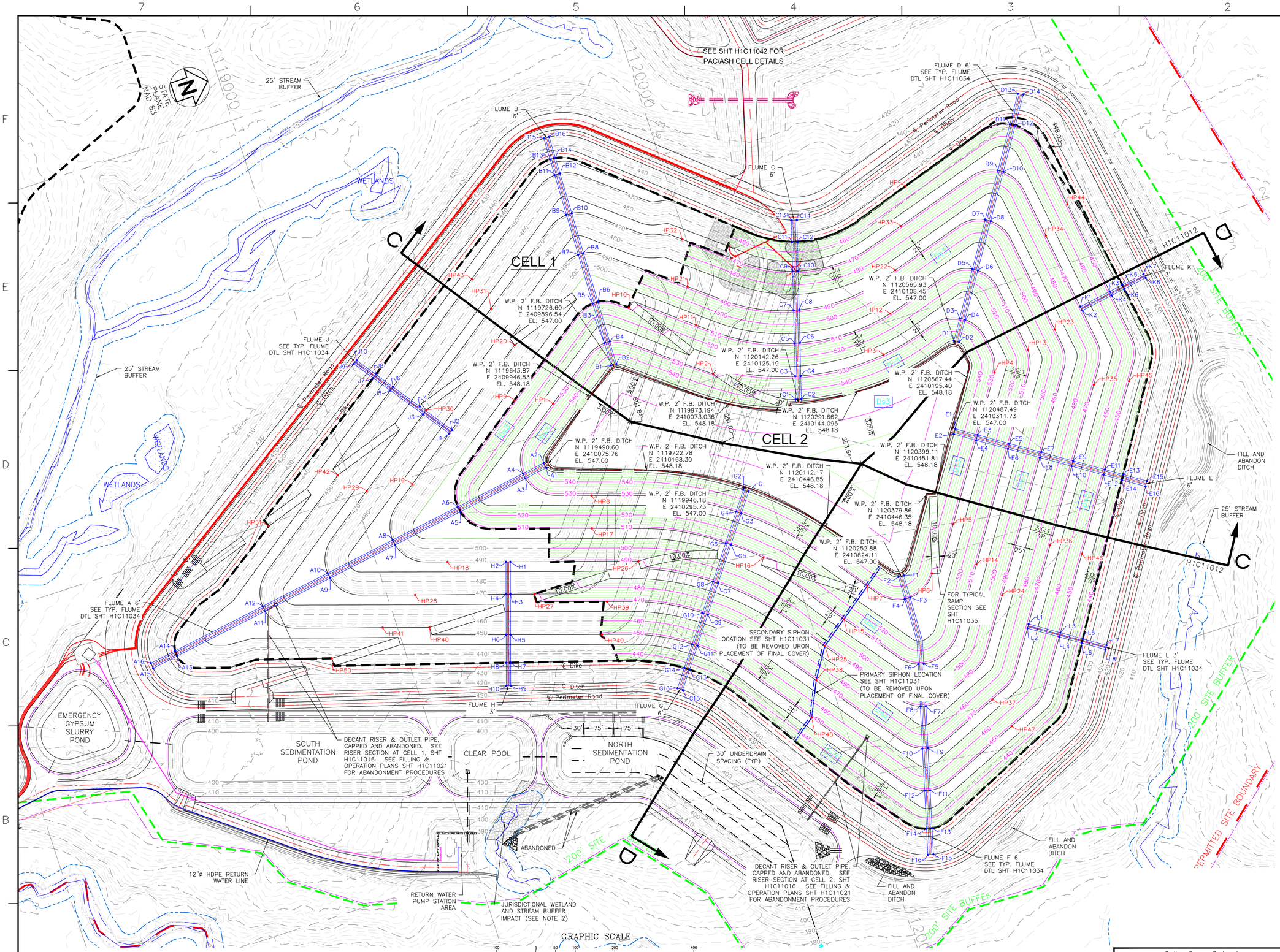
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY−PRODUCT DISPOSAL FACILITY
CELL NO.2 SITE DEVELOPMENT
BASE GRADING PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	**H1C11007**	1	FINAL	0

ANSI F: 40x28 Acad2004



CLOSURE AREA NOTES:

CELL 1 CLOSURE AREA = 16.7 ACRES
CELL 2 CLOSURE AREA = 43.1 ACRES
CELL 3 CLOSURE AREA = 25.7 ACRES

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION & SEDIMENT CONTROL OF GEORGIA," CURRENT EDITION.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
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LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- FENCE
- 25' STREAM BUFFER
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- CLOSURE AREA
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND:

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION. SEE ESPCP PLANS SHT H1C11109 FOR SCHEDULE)

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11012 CELL NO. 2 SECTION C-C AND AND SECTION D-D
H1C11031 CELL NO.1 THROUGH CELL NO. 3 SIPHON SECTIONS AND DETAILS
H1C11034 CELL NO.1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS AND DETAILS
H1C11036 FLUME COORDINATION DATA

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12582 PROFESSIONAL Engineer — CORY N. McWHORTER — 10/25/22

GEORGIA REGISTERED No. 27185 PROFESSIONAL ENGINEER — R. BRANT LANE — 10/25/22

REVISION	DATE
0	10-24-2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

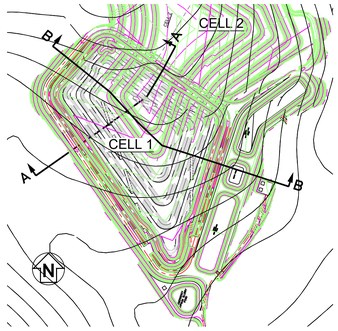
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

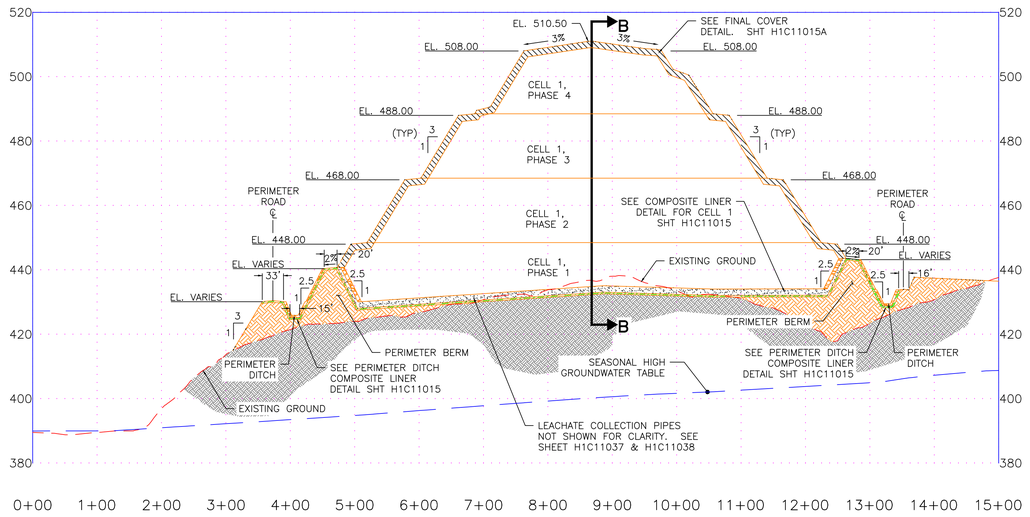
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 AND CELL NO. 2
FINAL STACKING PLAN

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	**H1C11008**	1	FINAL	0

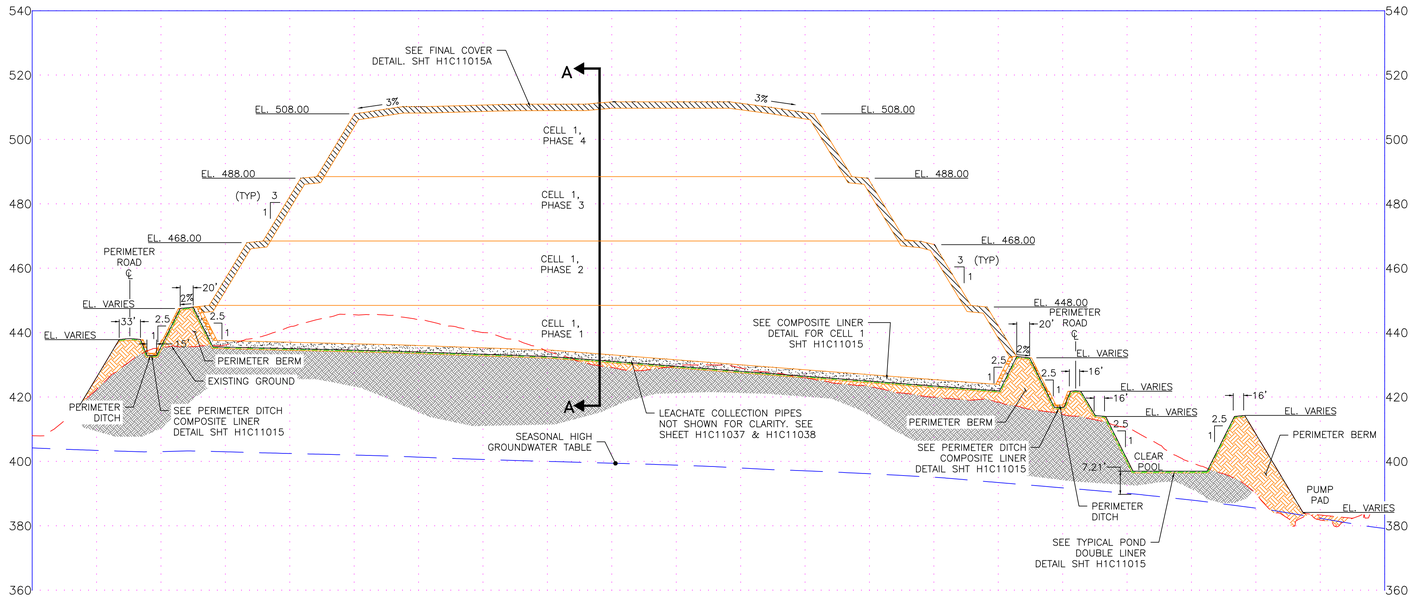
ANSI F: 40x28 Acad2004



KEY PLAN
NOT TO SCALE



CELL 1
SECTION A-A
SCALE H: 1"=100' V: 1"=20'



CELL 1
SECTION B-B
SCALE H: 1"=100' V: 1"=20'

NOTES:

1. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
2. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
3. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
4. GRADES SHOWN ON THIS SHEET REFLECT FINAL GRADE OF CELL 1 ONLY. SEE SHEET H1C11012 FOR CELL 2 AND CELL 1 FINAL GRADE.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens (digitally signed by Keith Stevens Date: 2022.10.27 09:12:44 -04'00')

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY R. MCWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11006 CELL NO. 1 FINAL STACKING PLAN
H1C11014 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS

REVISION	DATE
0	10-24-2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

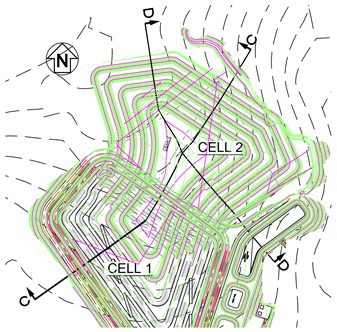
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 1 SECTION A-A AND SECTION B-B
PERIMETER DIKE THROUGH FINAL STACK

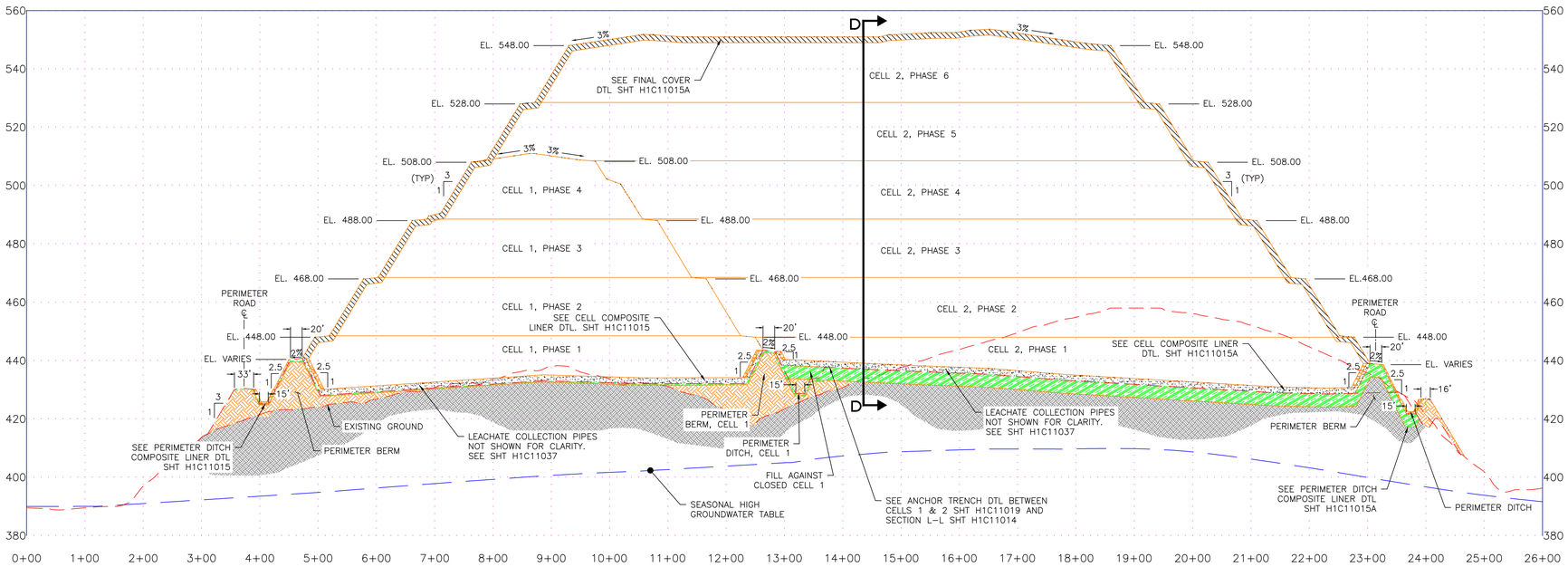
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	**H1C11011**	1	FINAL	0

ANSI F: 40x28 Acad2004



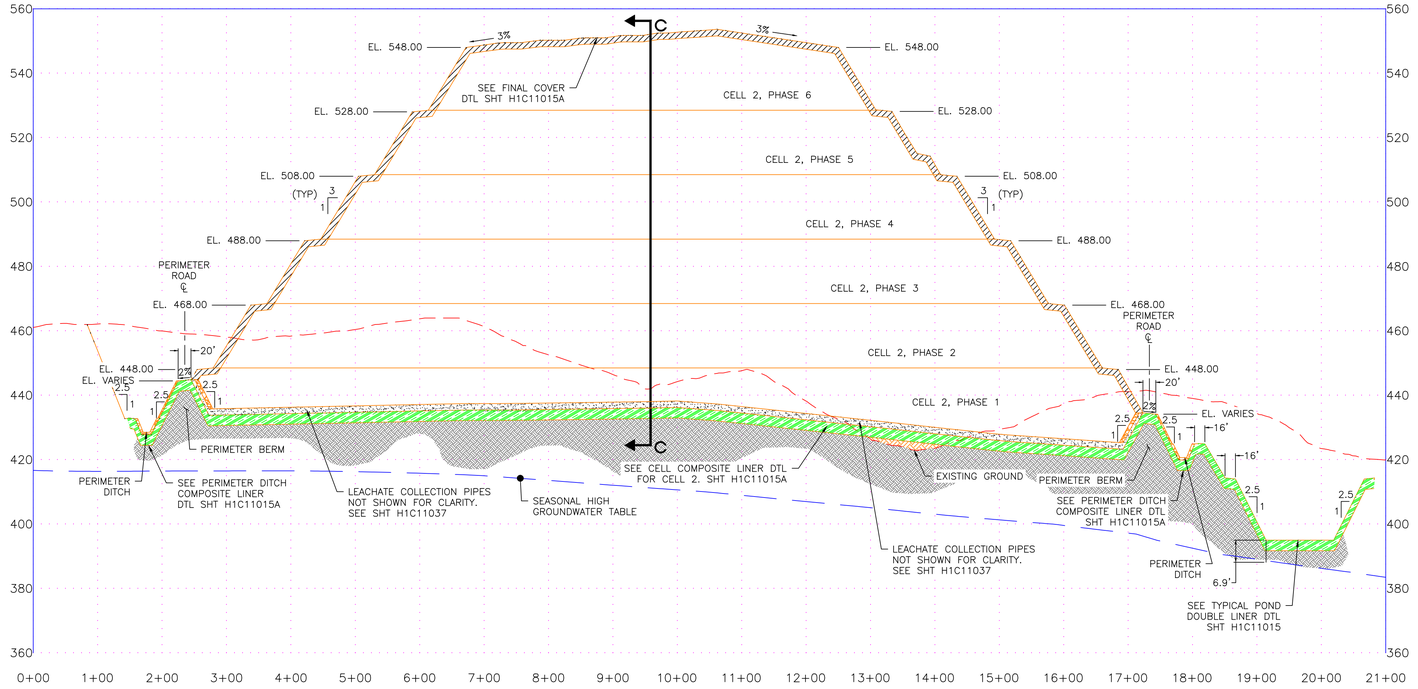
KEY PLAN

N.T.S.



CELL 2
SECTION C-C

SCALE H: 1"=100' V: 1"=20'



CELL 2
SECTION D-D

SCALE H: 1"=100' V: 1"=20'

NOTES:

1. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
2. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
3. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Approved By: _____

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11008 CELL NO. 1 AND CELL NO. 2 FINAL STACKING PLAN
H1C11014 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11016 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 12997 PROFESSIONAL ENGINEER KEARY N. McMINNIMEE 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

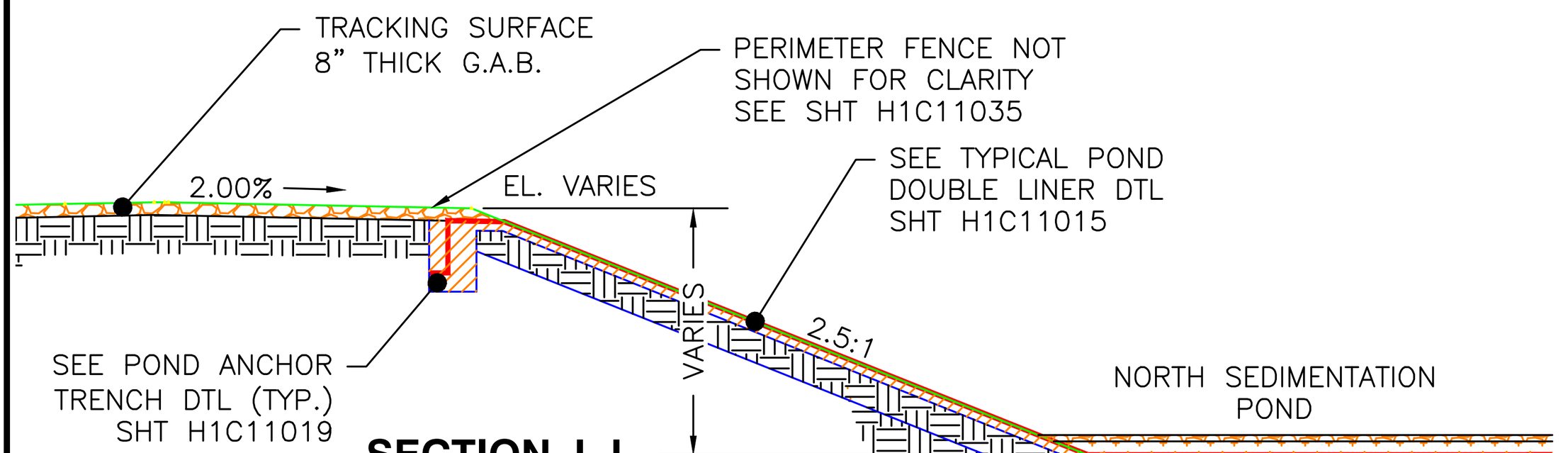
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL 2 SECTION C-C AND SECTION D-D
PERIMETER DIKE THROUGH FINAL STACK

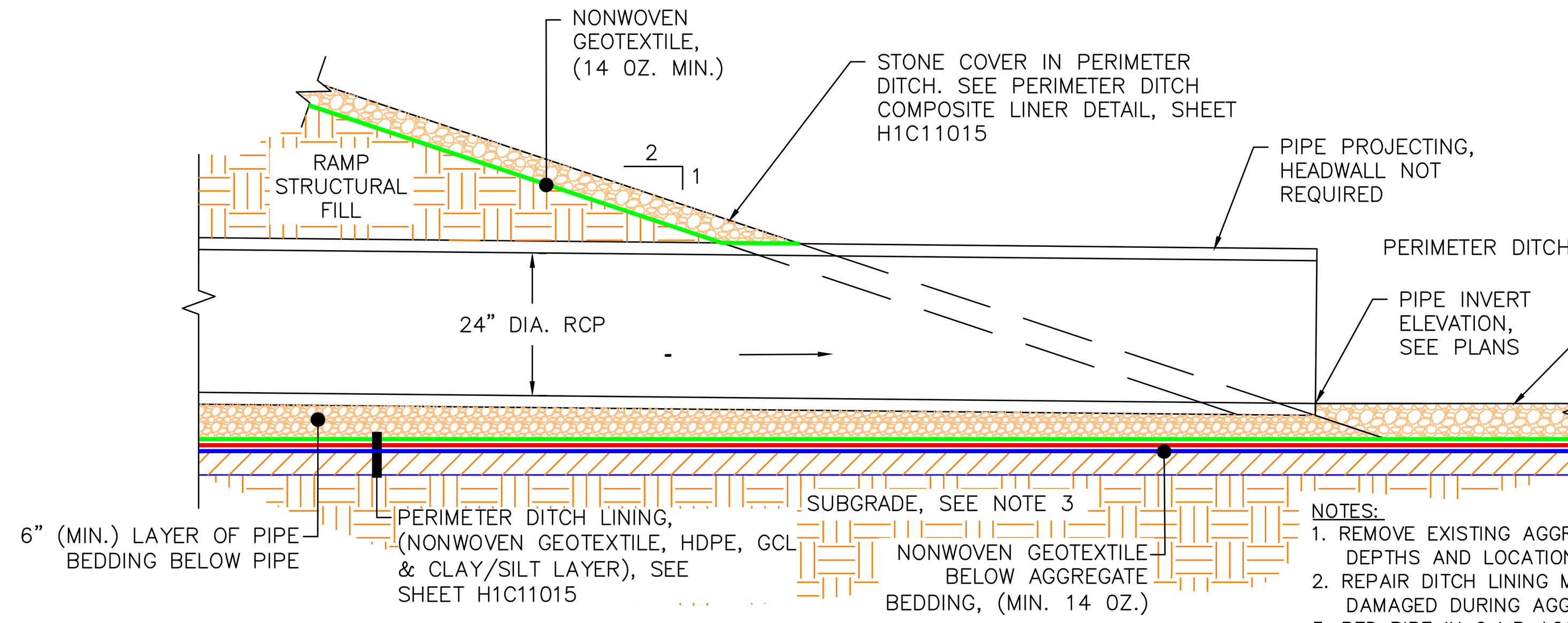
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	**H1C11012**	1	FINAL	0

ANSI F: 40x28 Acad2004

7 6 5 4 3 2 1

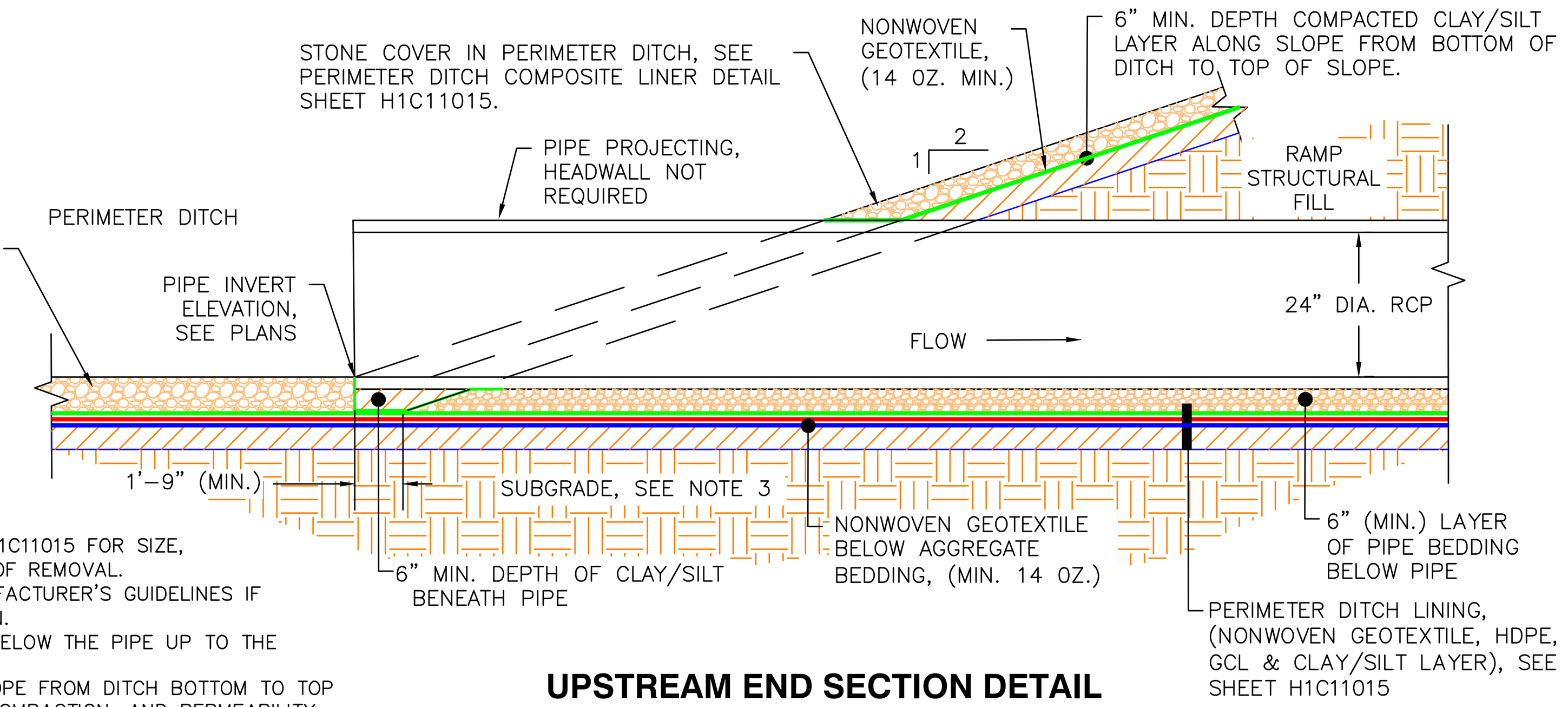


SECTION J-J
SCALE: 1" = 10'
(H1C11007)

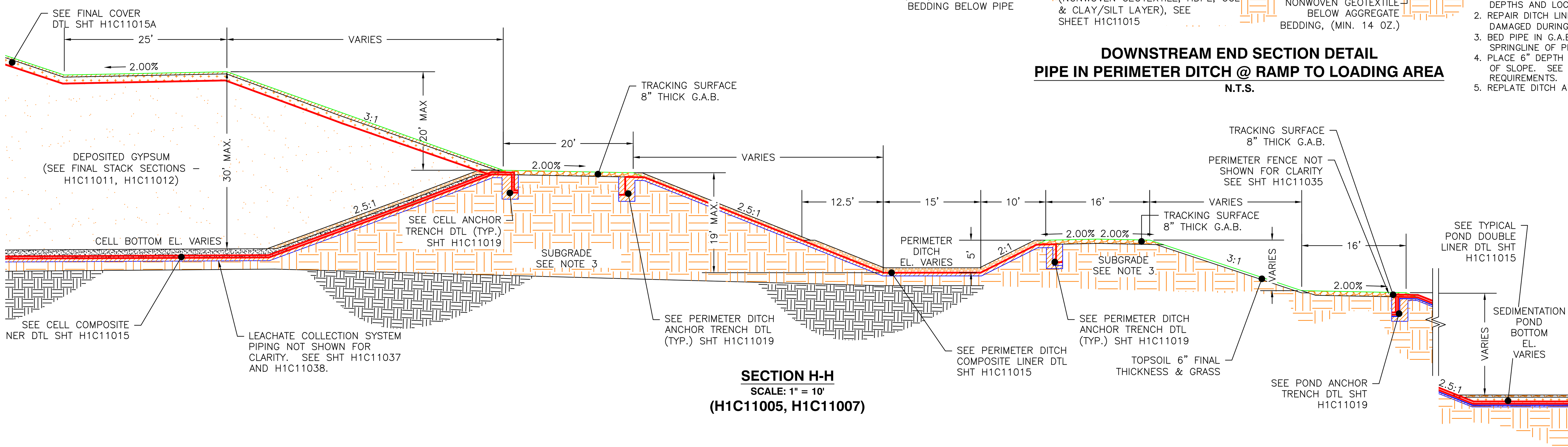


DOWNSTREAM END SECTION DETAIL
PIPE IN PERIMETER DITCH @ RAMP TO LOADING AREA
N.T.S.

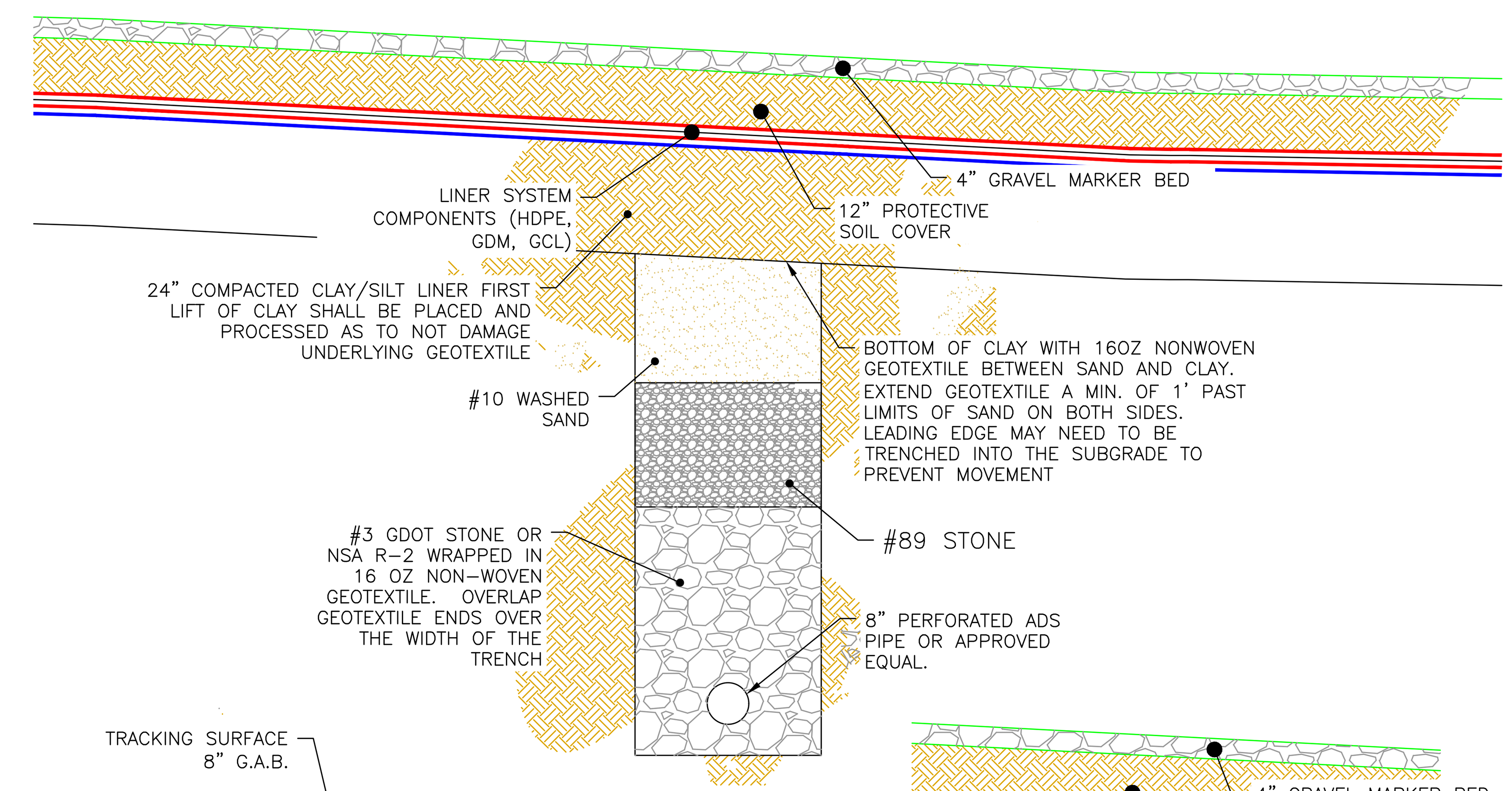
NOTES:
1. REMOVE EXISTING AGGREGATE ARMOR IN DITCH (SEE SHEET H1C11015 FOR SIZE, DEPTHS AND LOCATIONS). SEE SHEET H1C11005 FOR LIMITS OF REMOVAL.
2. REPAIR DITCH LINING MATERIALS IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES IF DAMAGED DURING AGGREGATE REMOVAL/RAMP CONSTRUCTION.
3. BED PIPE IN G.A.B AGGREGATE WITH MINIMUM OF 6" DEPTH BELOW THE PIPE UP TO THE SPRINGLINE OF PIPE.
4. PLACE 6" DEPTH LAYER OF CLAY/SILT ALONG UPSTREAM SLOPE FROM DITCH BOTTOM TO TOP OF SLOPE. SEE PROJECT SPECIFICATIONS FOR MATERIALS, COMPACTION, AND PERMEABILITY REQUIREMENTS.
5. REPLATE DITCH AT INLET AND OUTLET ENDS USING STOCKPILED AGGREGATE.



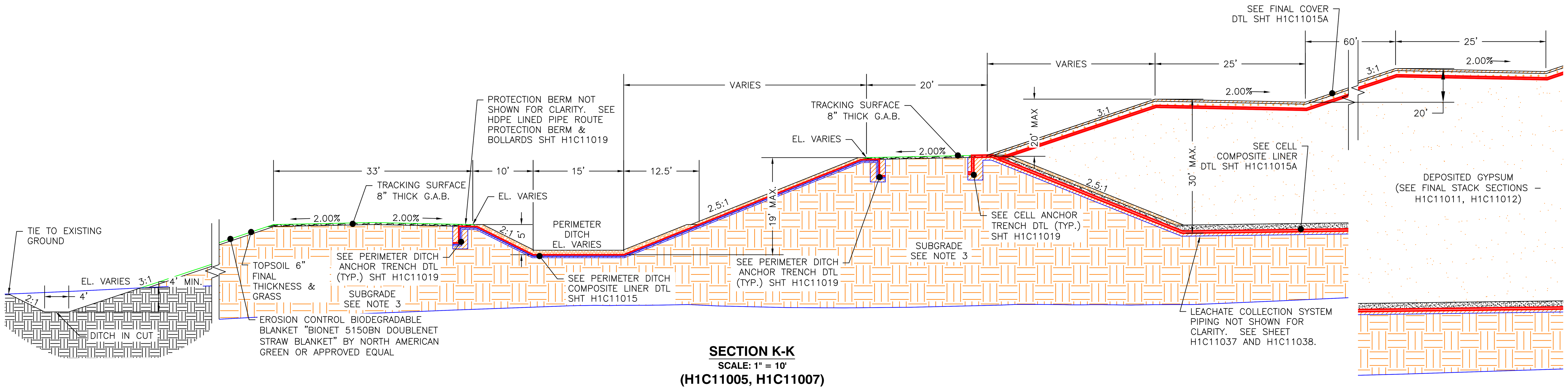
UPSTREAM END SECTION DETAIL
PIPE IN PERIMETER DITCH @ RAMP TO LOADING AREA
N.T.S.



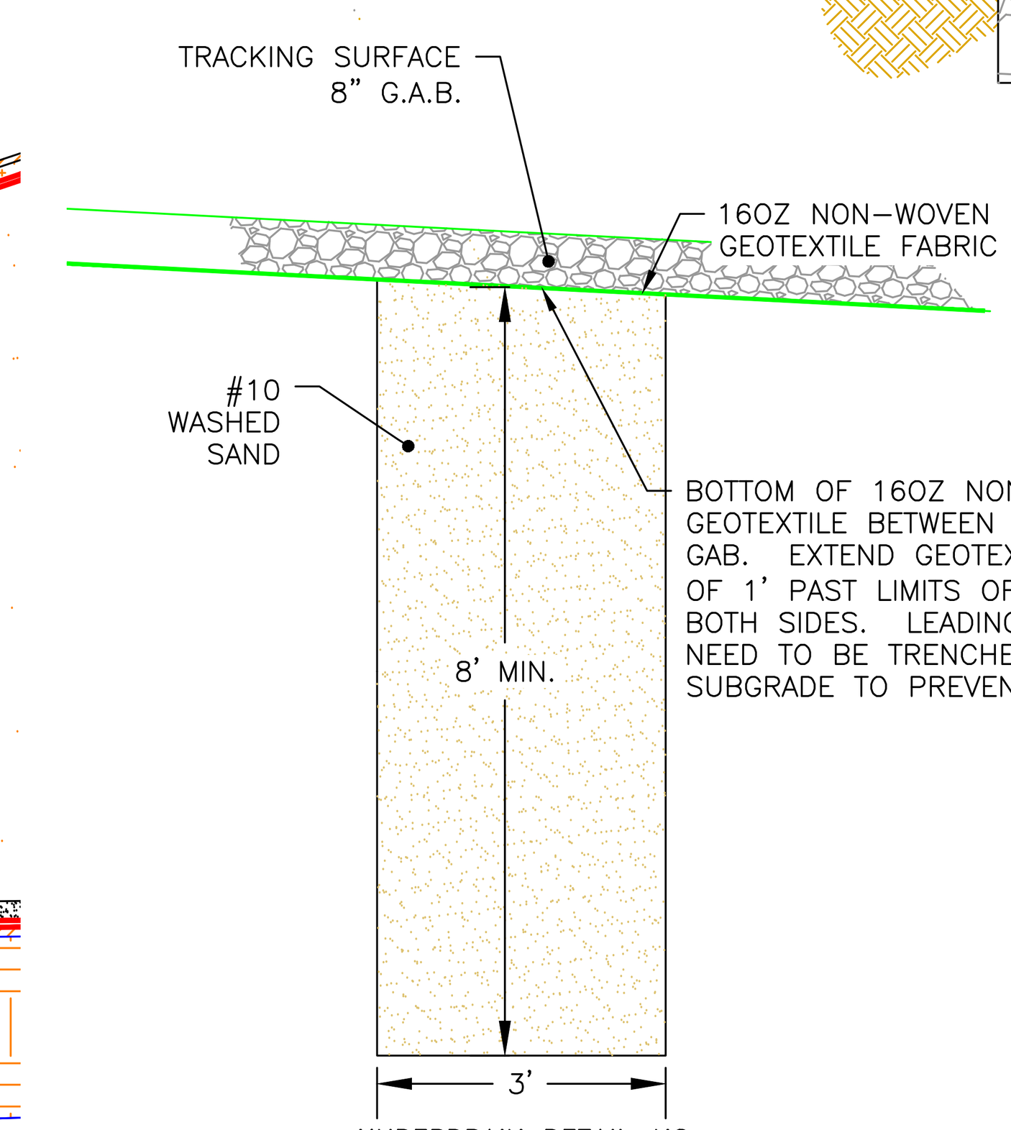
SECTION H-H
SCALE: 1" = 10'
(H1C11005, H1C11007)



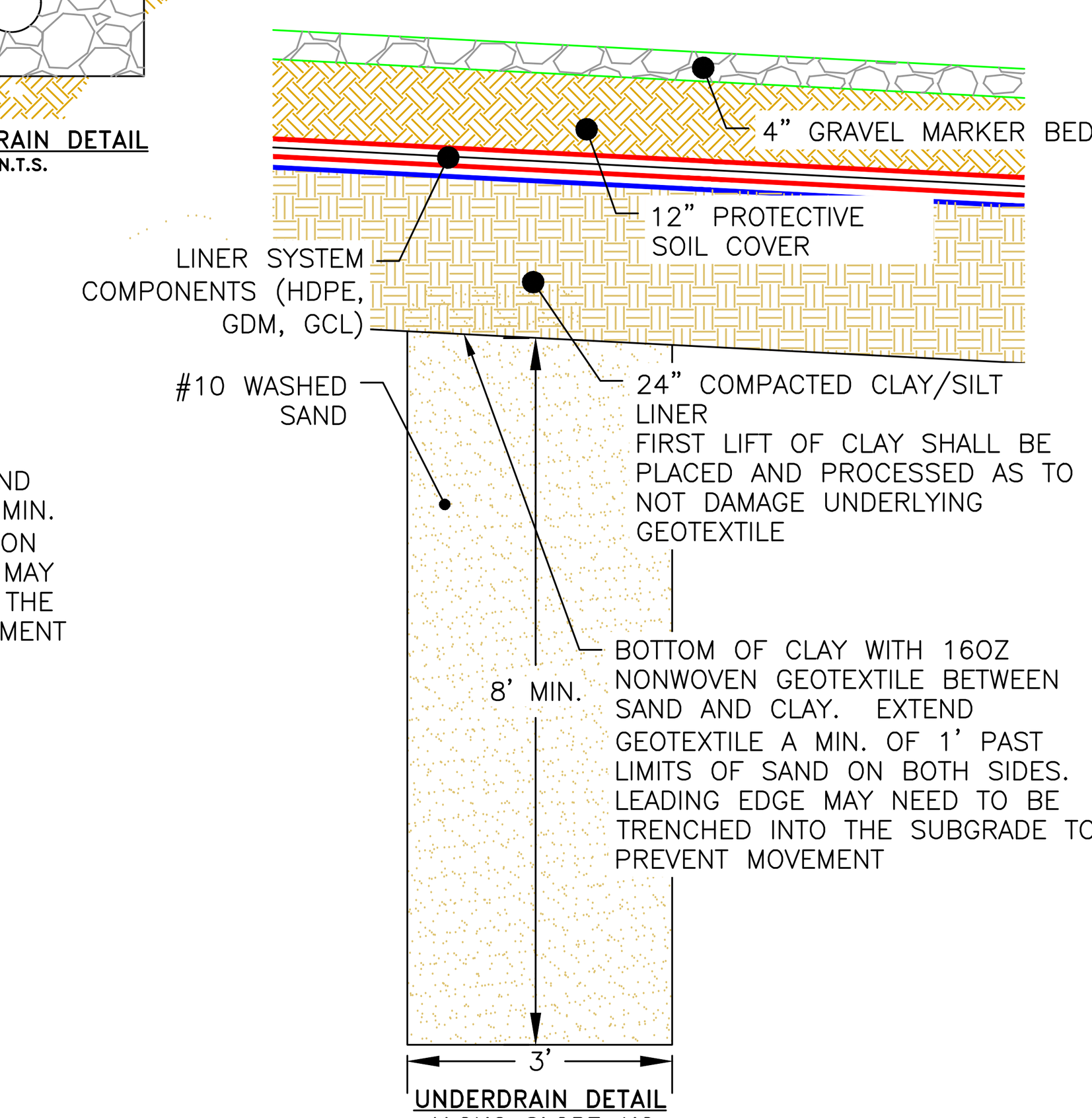
UNDERDRAIN DETAIL
N.T.S.



SECTION K-K
SCALE: 1" = 10'
(H1C11005, H1C11007)



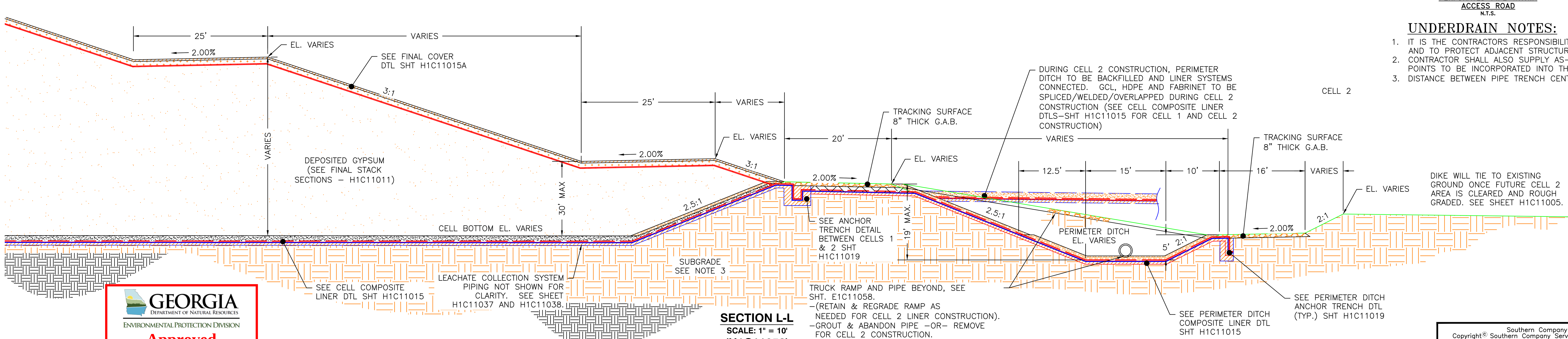
UNDERDRAIN DETAIL–NO PERFORATED PIPE WITHIN ACCESS ROAD
N.T.S.



UNDERDRAIN DETAIL ALONG SLOPE–NO PERFORATED PIPE
N.T.S.

UNDERDRAIN NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AND MAINTAIN SAFE SHORING AND/OR STABLE TRENCH SIDE SLOPES FOR SAFETY AND TO PROTECT ADJACENT STRUCTURES OR EXISTING SLOPES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
2. CONTRACTOR SHALL ALSO SUPPLY AS-BUILT SURVEY OF THE TOP OF THE PIPE AND BOTTOM OF CLAY EVERY 50 L.F. AND AT BREAK POINTS TO BE INCORPORATED INTO THE SUBGRADE AS-BUILT.
3. DISTANCE BETWEEN PIPE TRENCH CENTERLINES SHALL BE 30'. MINIMUM GRADES REQUIRED FOR EACH SHALL BE 0.50%.



SECTION L-L
SCALE: 1" = 10'
(H1C11058)

NOTES:

1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
3. CELLS 2 SOIL LINER THICKNESS IS 24". CELL 1 SOIL LINER THICKNESS IS 6".
4. LEACHATE COLLECTION SYSTEM PIPING NOT SHOWN FOR CLARITY.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11004 GENERAL SITE DEVELOPMENT AND CELL LAYOUT
H1C11005 CELL NO. 1 - SITE DEVELOPMENT BASE GRADING SHEET
H1C11007 CELL NO. 2 - SITE DEVELOPMENT BASE GRADING SHEET
H1C11011 CELL 1 SECTION A-A AND SECTION B-B PERIMETER DIKE THROUGH FINAL STACK
H1C11012 CELL 2 SECTION C-C AND SECTION D-D PERIMETER DIKE THROUGH FINAL STACK
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11035 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS AND DETAILS

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

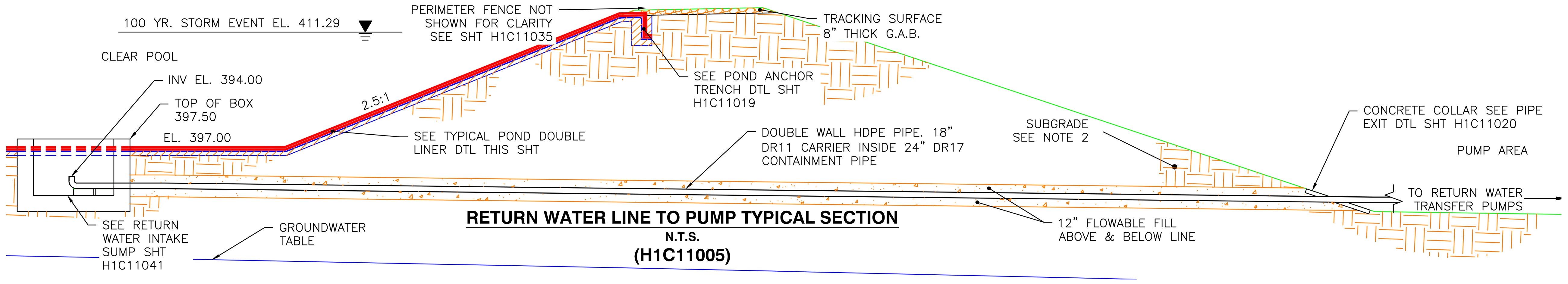
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS SECTIONS
SHEET 1

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
								0	10-24-2022
								CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

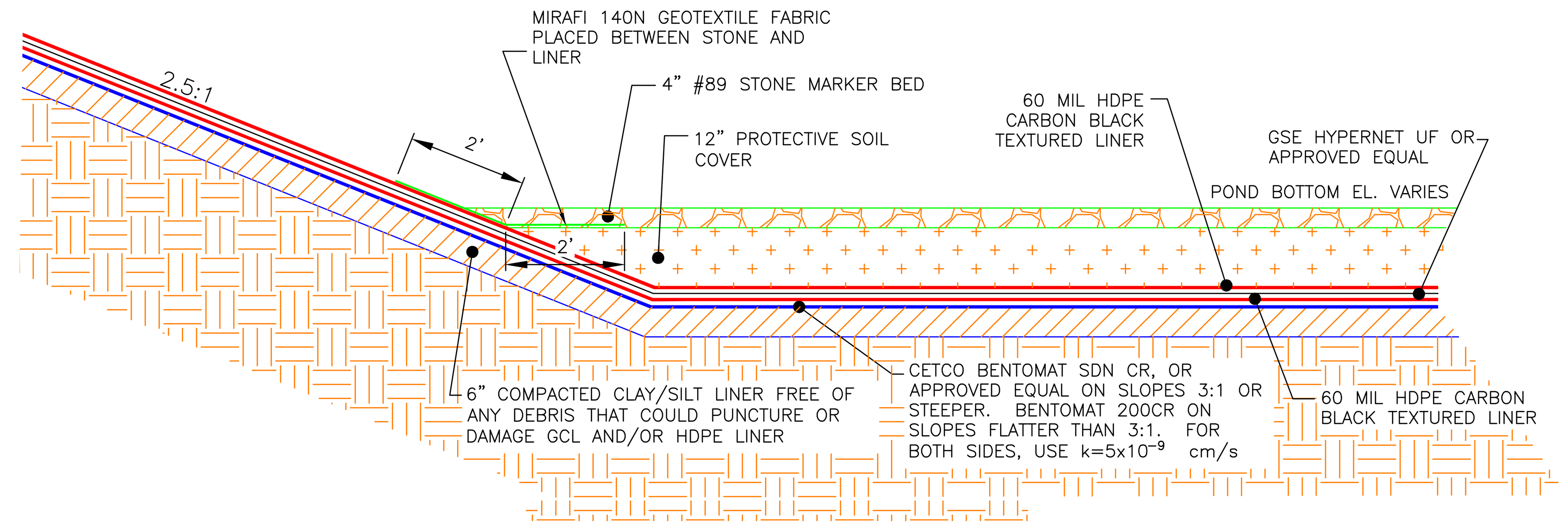
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11014	1	FINAL	0

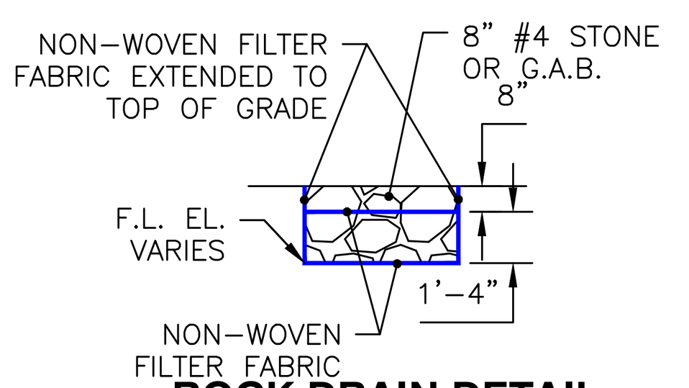
ANSI F: 40x28 Acad2004



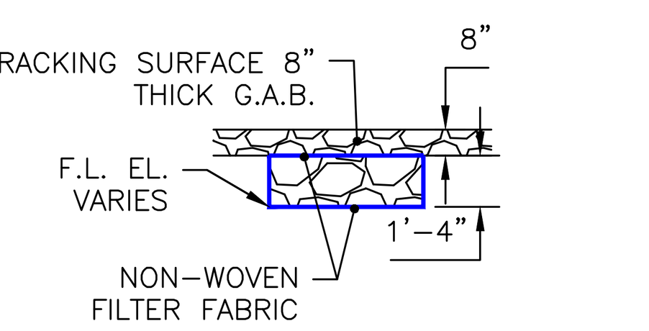
RETURN WATER LINE TO PUMP TYPICAL SECTION
N.T.S.
(H1C11005)



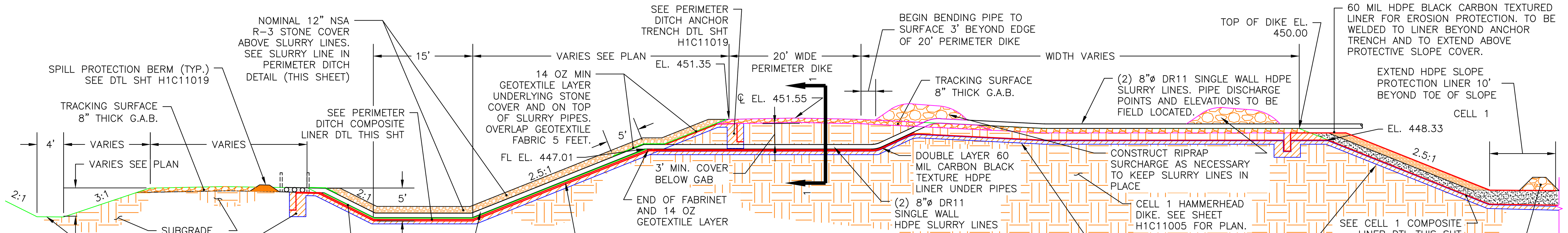
CELL 1 (SOUTH BASIN) TYPICAL POND DOUBLE LINER DETAIL
N.T.S.



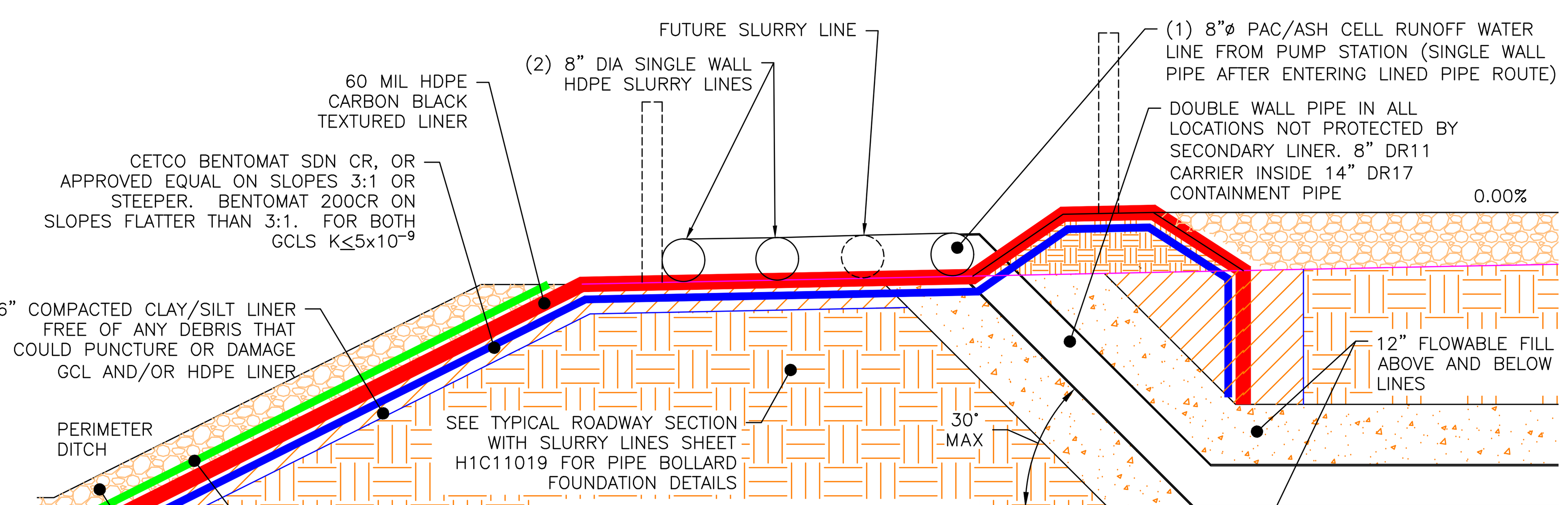
ROCK DRAIN DETAIL
N.T.S.



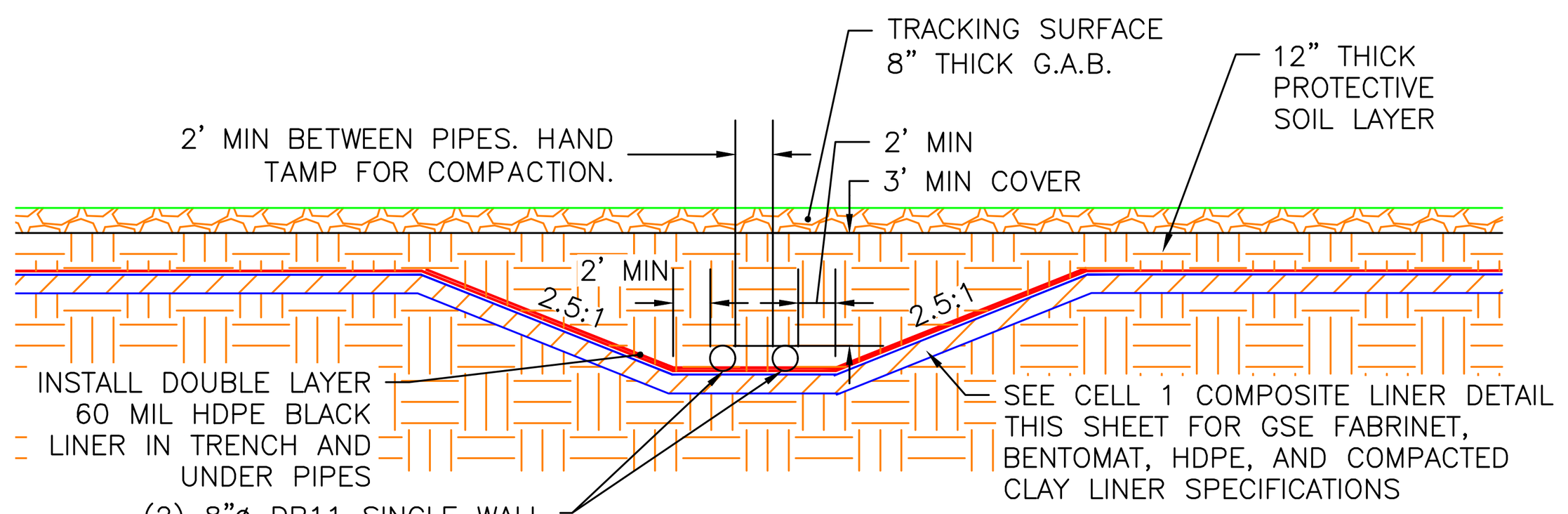
ROCK DRAIN DETAIL @ ACCESS ROAD
N.T.S.



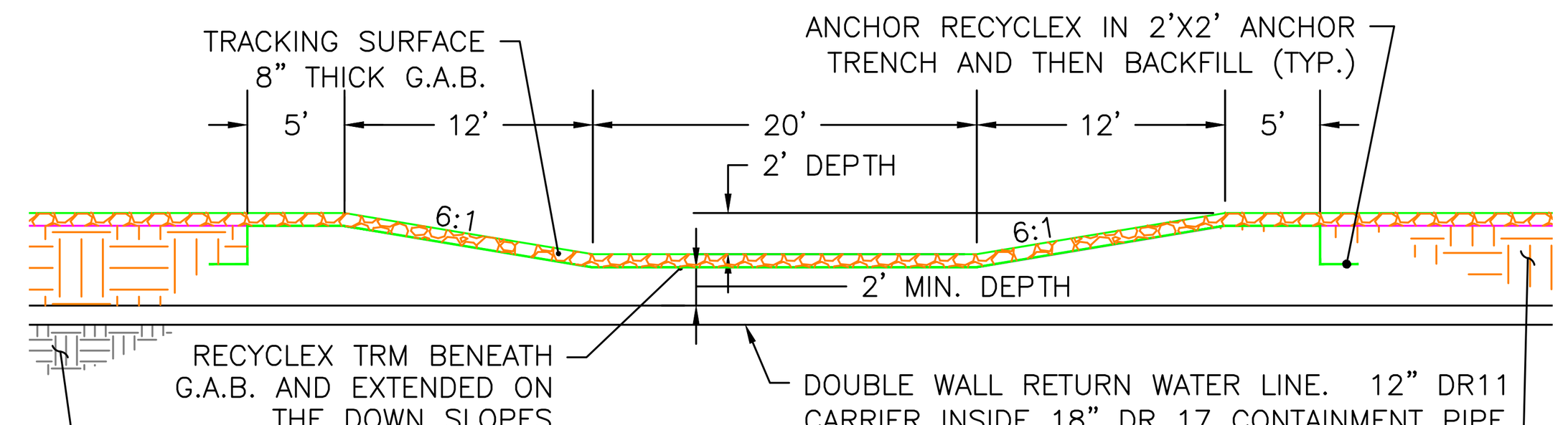
CELL 1 SLURRY LINE DISCHARGE TYPICAL SECTION
SCALE: N.T.S.
(H1C11005 & H1C11007)



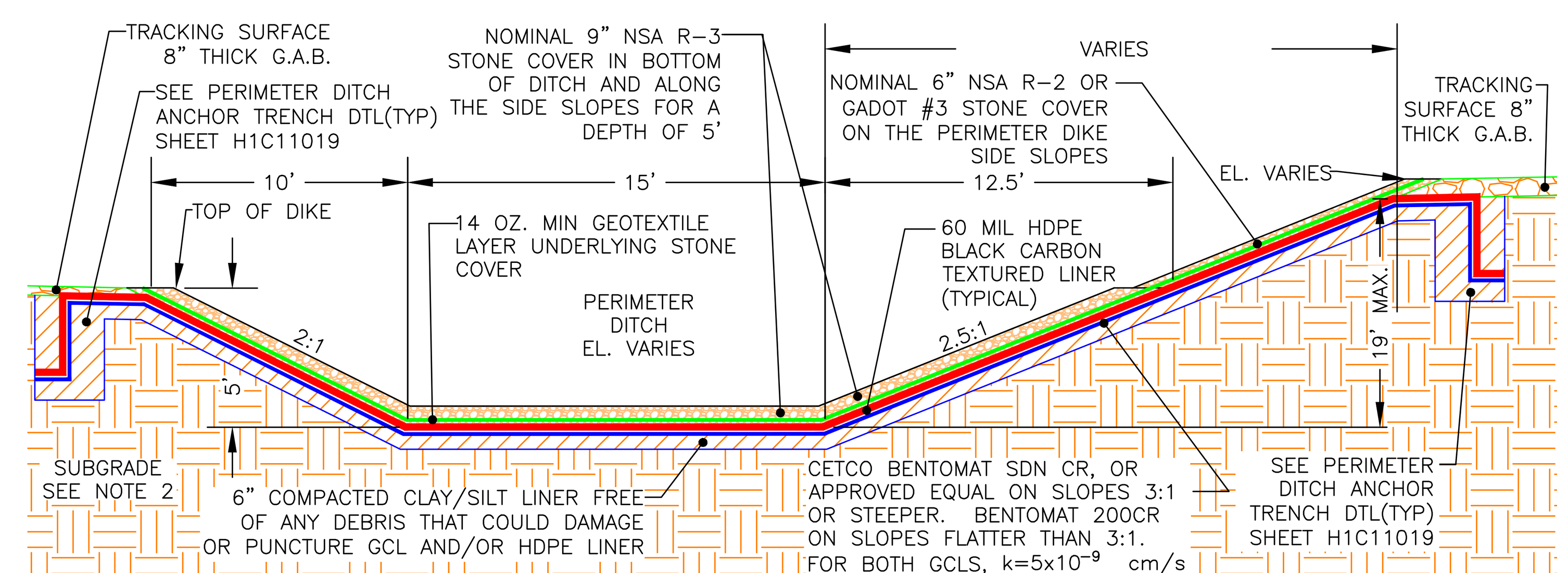
SPILL PROTECTION BERM AT SLURRY LINE CROSSINGS TYPICAL SECTION
N.T.S.



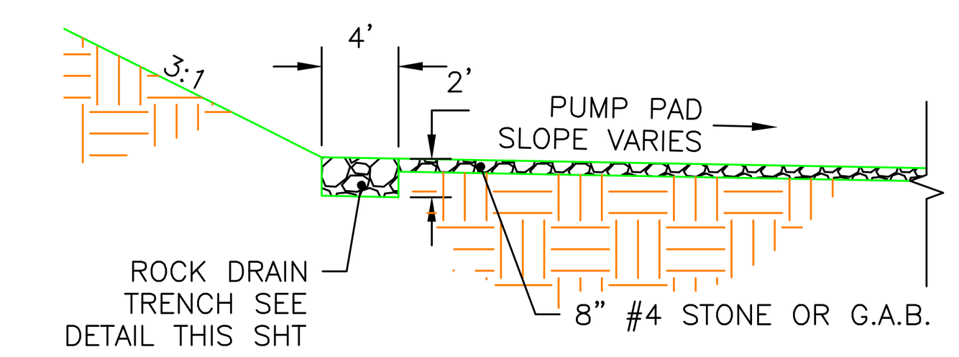
SECTION 1-1
SLURRY LINE DISCHARGE DETAIL
SCALE: N.T.S.



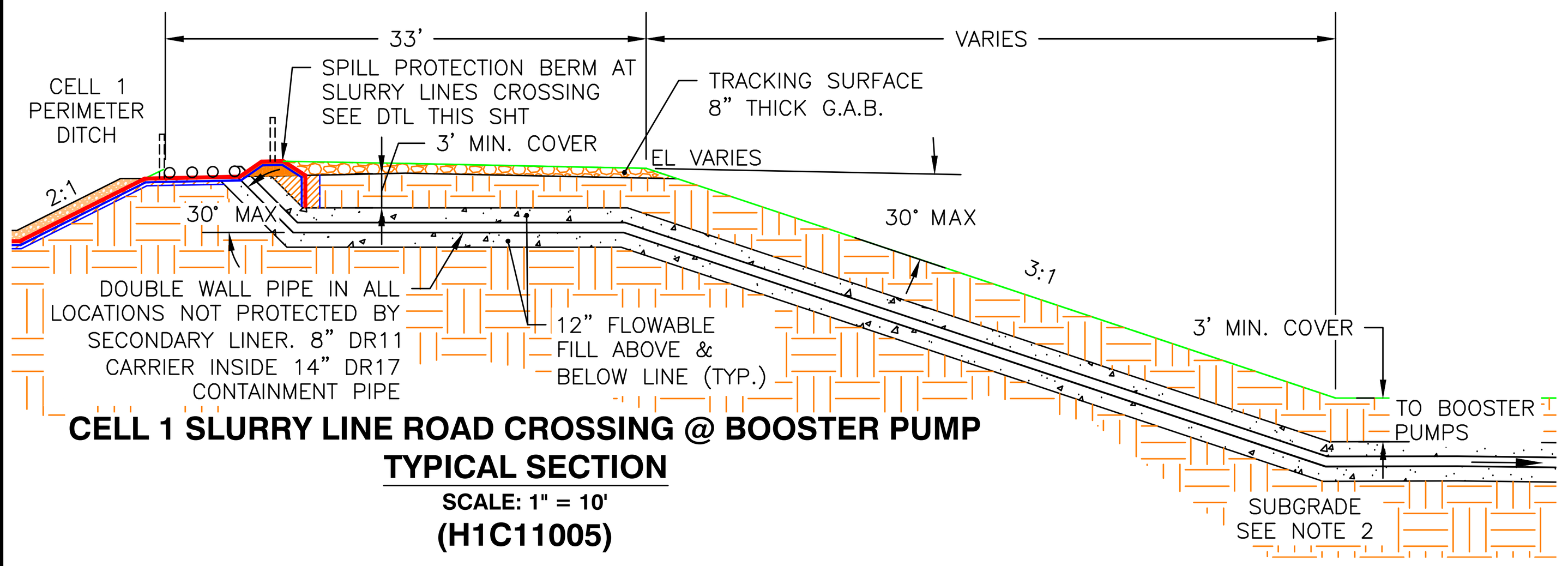
EMERGENCY SPILLWAY SEDIMENTATION POND TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



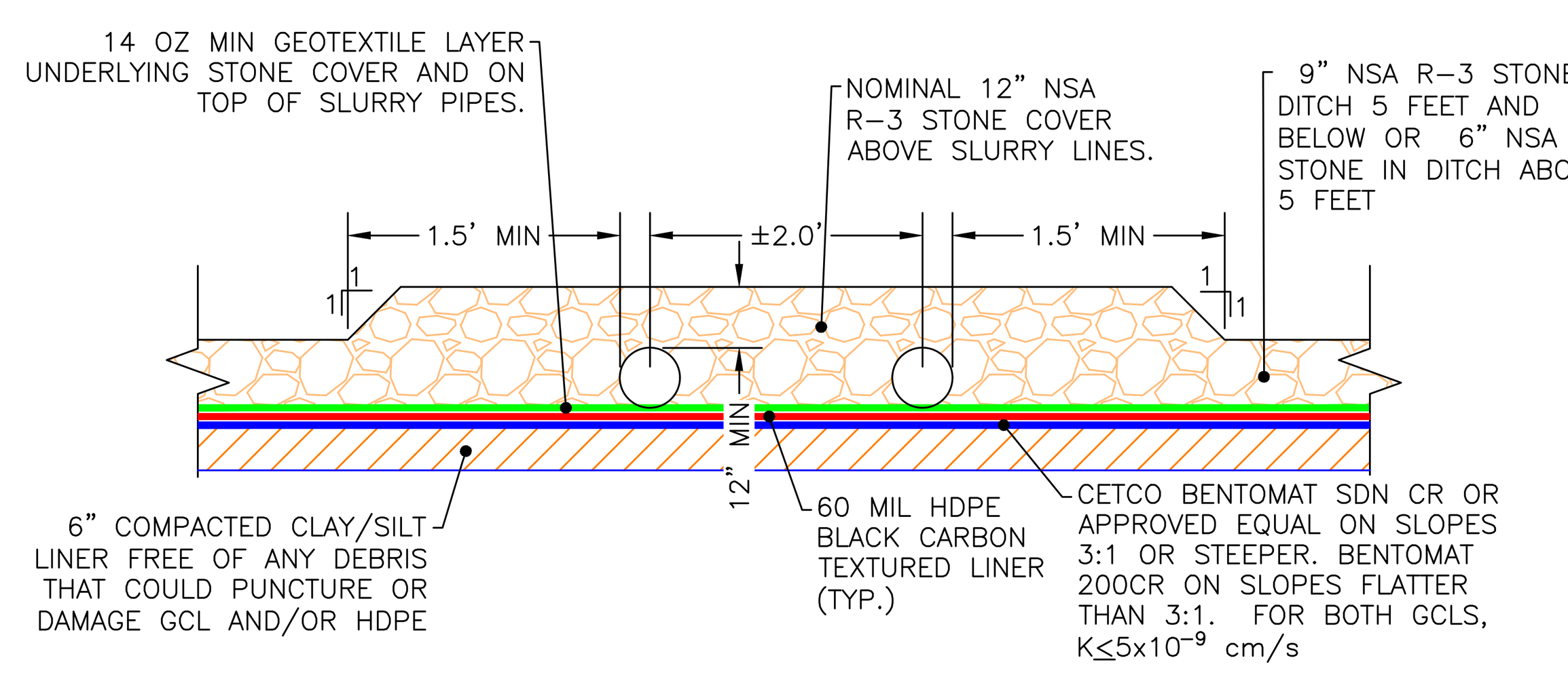
PERIMETER DITCH COMPOSITE LINER DETAIL
CELL 1
NTS



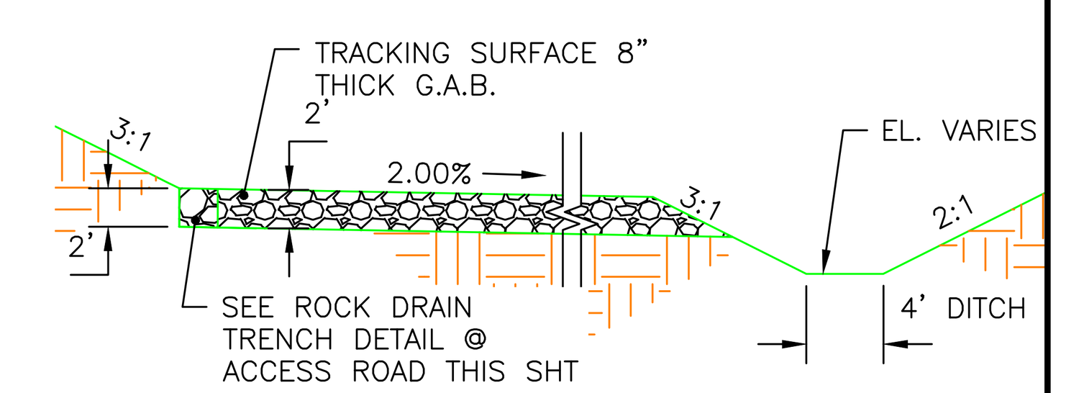
PUMP PAD ROCK DRAIN TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



CELL 1 SLURRY LINE ROAD CROSSING @ BOOSTER PUMP TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)



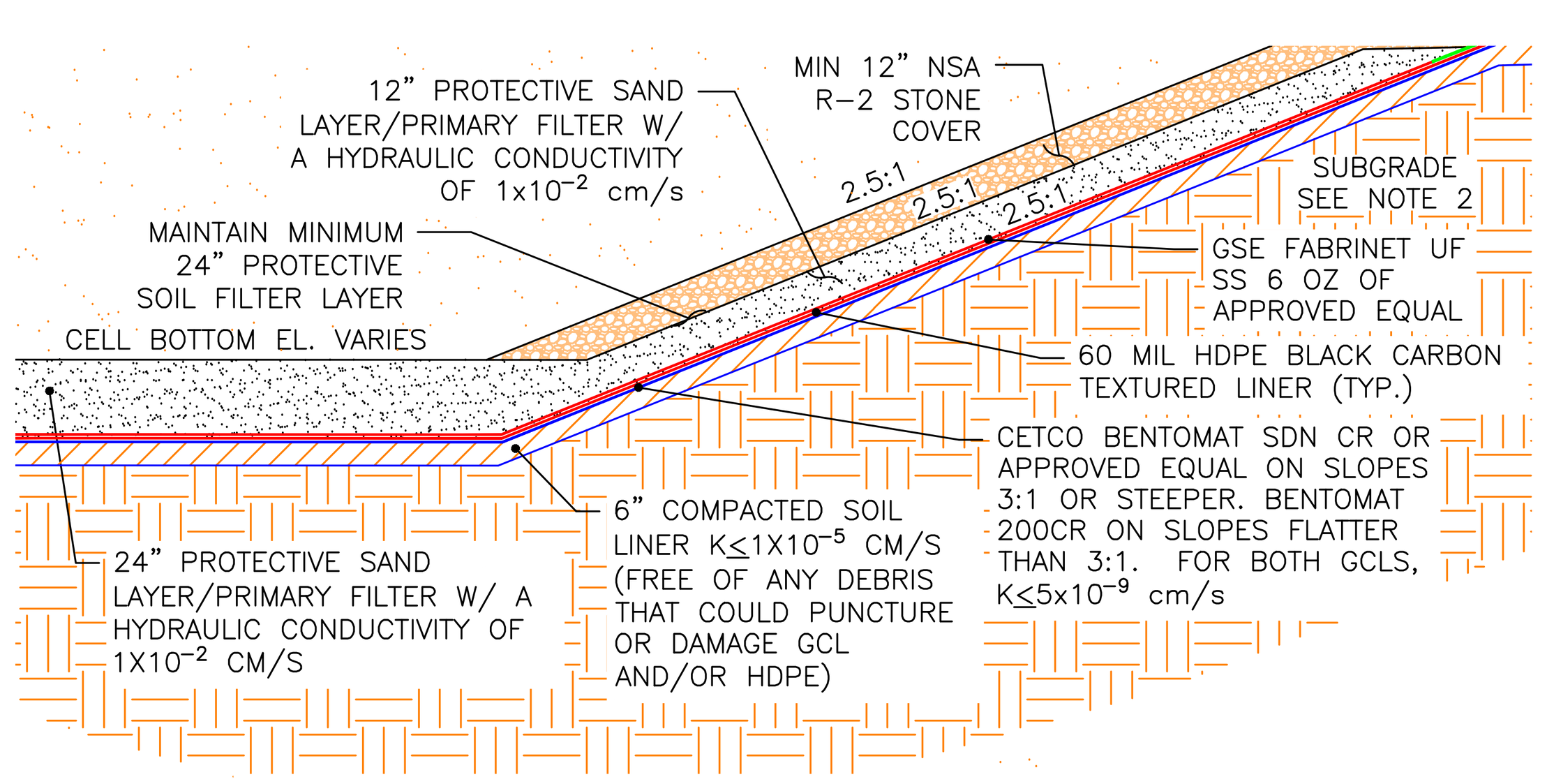
CELL 1 SLURRY LINE IN PERIMETER DITCH DETAIL
SCALE: NTS



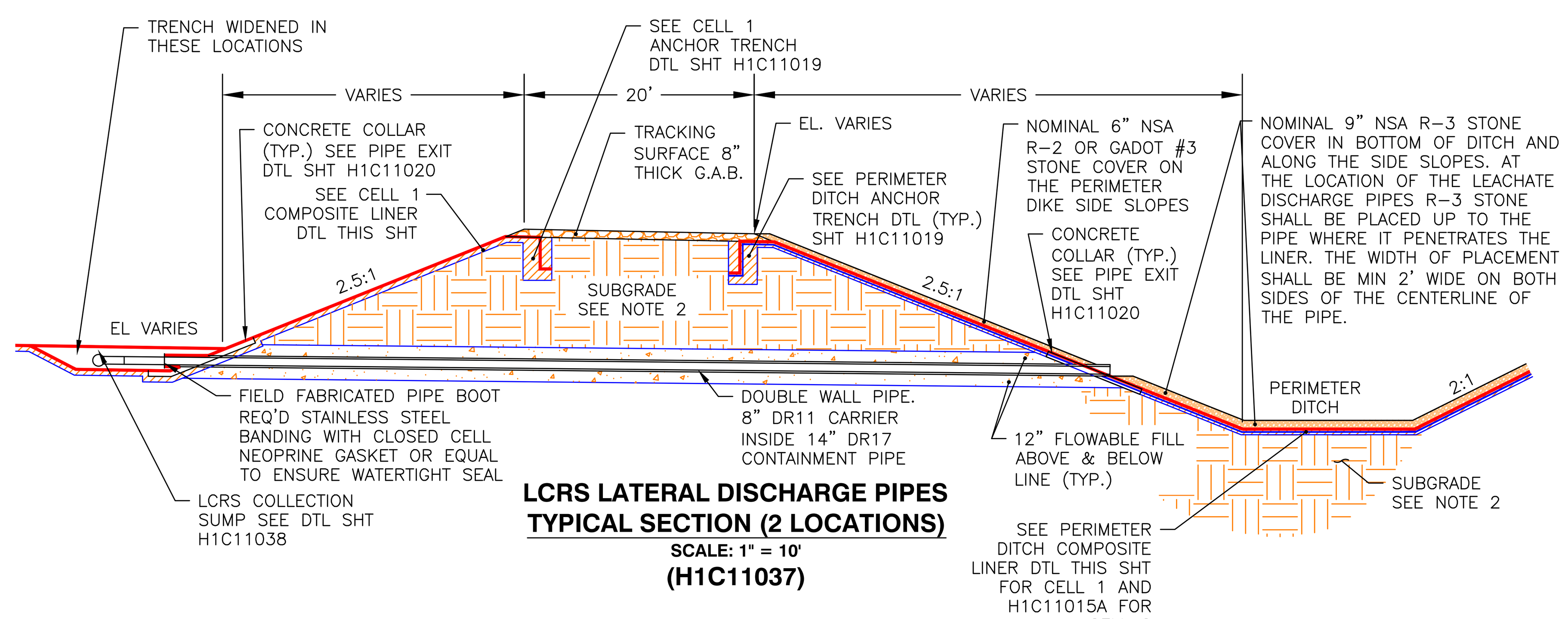
PUMP PAD ROCK DRAIN @ ACCESS ROAD TYPICAL SECTION
SCALE: 1" = 10'
(H1C11005)

NOTES:

1. G.A.B WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
3. CELL 2 SOIL LINER THICKNESS IS 24". CELL 1 SOIL LINER THICKNESS IS 6".



CELL 1 COMPOSITE LINER DETAIL
NTS



LCRS LATERAL DISCHARGE PIPES TYPICAL SECTION (2 LOCATIONS)
SCALE: 1" = 10'
(H1C11037)

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11005 CELL NO. 1 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11007 CELL NO. 2 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11014 CELL NO. 1 AND CELL NO. 2 DIKE SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11035 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS AND DETAILS
H1C11037 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT
H1C11038 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM DETAILS
H1C11041 CELL NO. 1 THROUGH CELL NO. 3 CLEAR POOL RETURN WATER INTAKE PLAN AND SECTIONS

GEORGIA
Department of Natural Resources
Environmental Protection Division
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12667 GARY N. McWHORTER 10/25/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

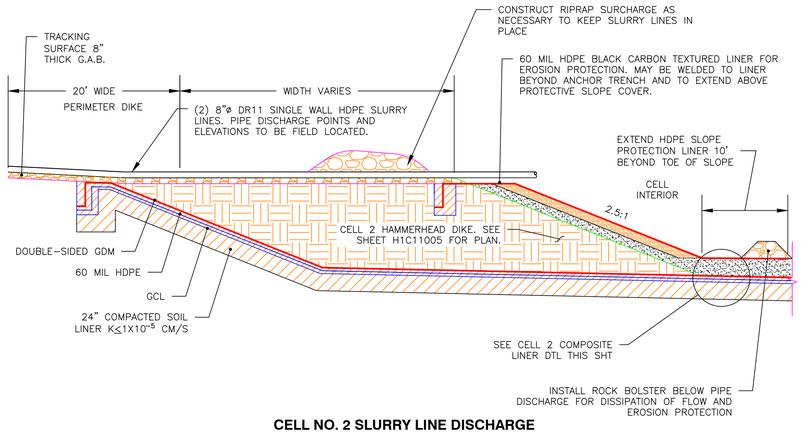
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

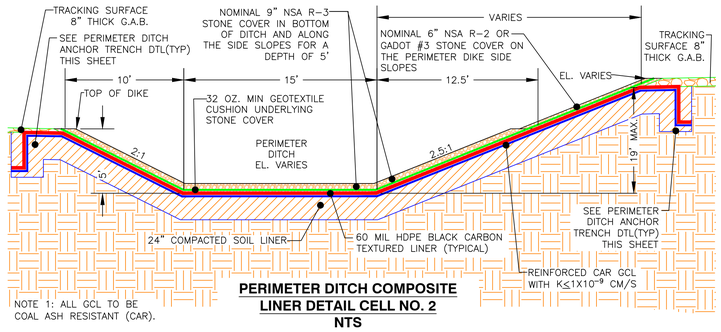
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11015	1	FINAL	0

ANSI F: 40x28 Acad2004

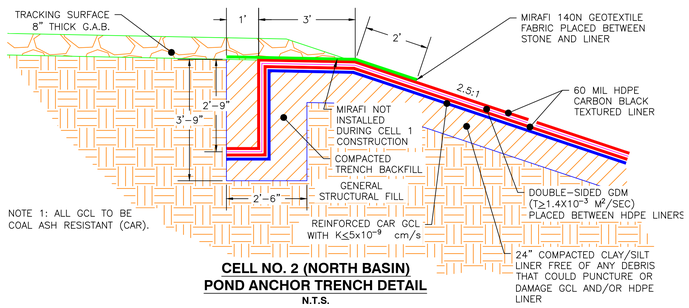


CELL NO. 2 SLURRY LINE DISCHARGE
TYPICAL SECTION
NTS
(H1C11005 & H1C11007)



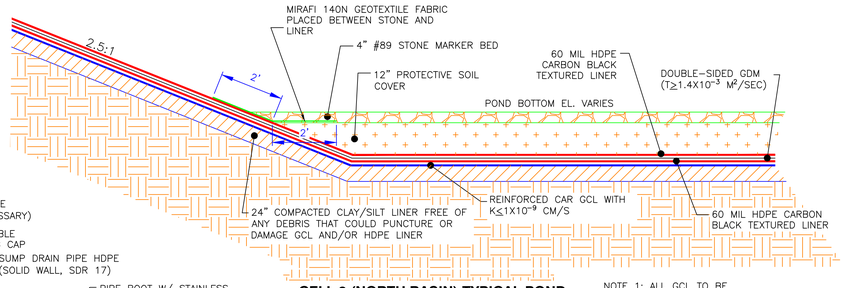
NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

PERIMETER DITCH COMPOSITE LINER DETAIL CELL NO. 2
NTS



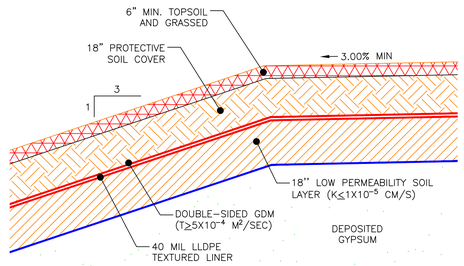
NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

CELL NO. 2 (NORTH BASIN)
POND ANCHOR TRENCH DETAIL
N.T.S.

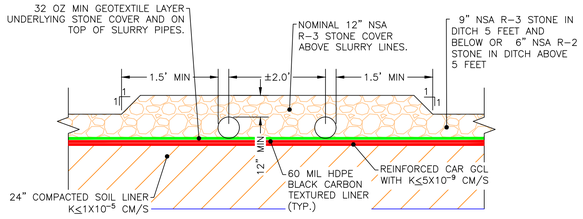


CELL 2 (NORTH BASIN) TYPICAL POND
DOUBLE LINER DETAIL
N.T.S.

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

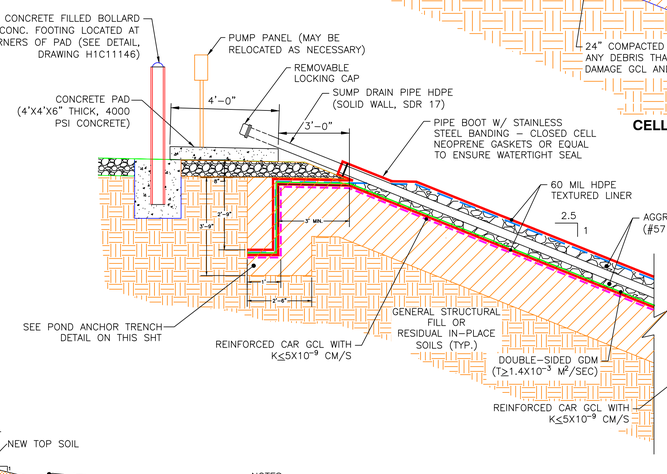


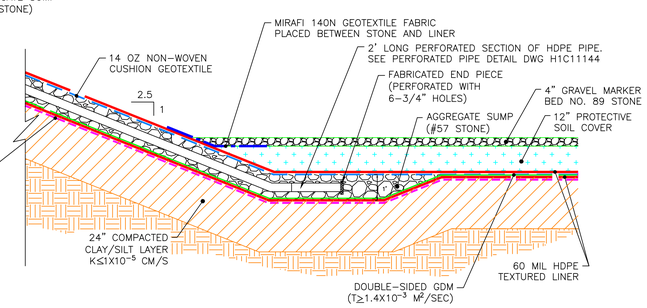
FINAL COVER DETAIL CELLS 1, 2
N.T.S.



CELL 2 SLURRY LINE IN PERIMETER DITCH DETAIL
SCALE: NTS

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

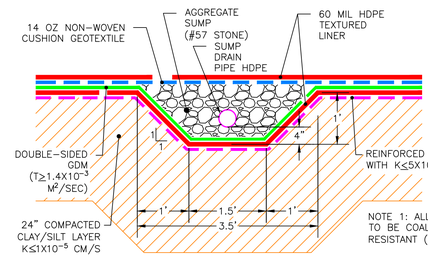




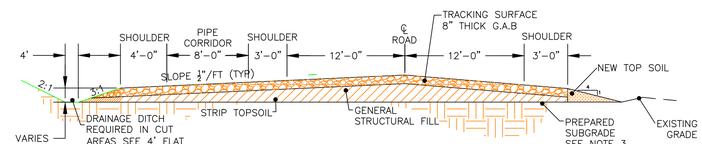
NOTES:

1. CLEAR POOL HAS AN 8" DIA SUMP DRAIN PIPE.
2. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
3. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.
4. ALL GCL TO BE COAL ASH RESISTANT (CAR).

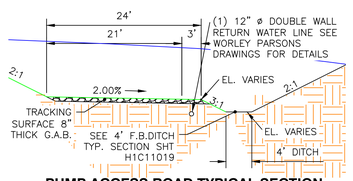
TYPICAL CELL NO. 2 POND (NORTH BASIN)
LEAKAGE DETECTION SUMP DETAIL
N.T.S.



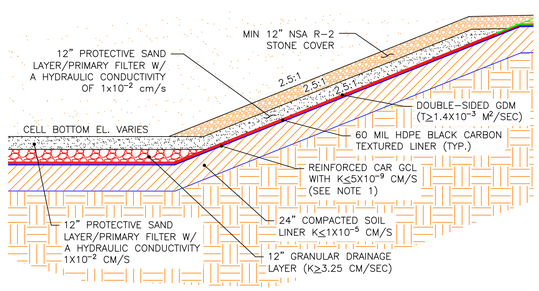
CELL 2 (NORTH BASIN) TYPICAL LEAKAGE DETECTION
SUMP DRAIN PIPE DETAIL
N.T.S.



PERMANENT ACCESS ROAD
TYPICAL SECTION CELL 1 AND CELL 2
NTS
(H1C11005)

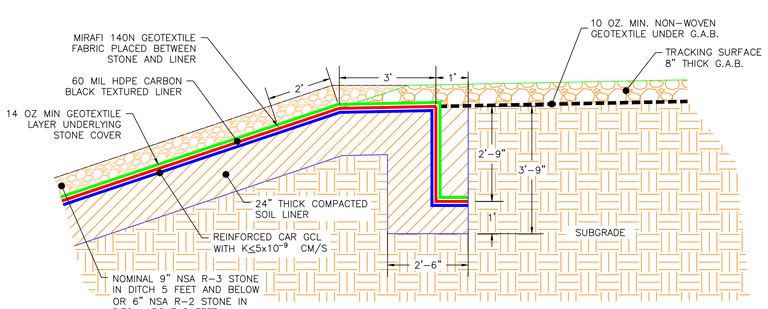


PUMP ACCESS ROAD TYPICAL SECTION
(H1C11005)
NTS



CELL 2 COMPOSITE LINER DETAIL
NTS

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).



NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

PERIMETER DITCH ANCHOR TRENCH DETAIL
FOR CELL 2
NTS

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 15:15:44 -04'00'
Approved By: _____

NOTES:

1. G.A.B WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
3. CELL 2 SOIL LINER THICKNESS IS 24". CELL 1 SOIL LINER THICKNESS IS 6".

REFERENCES:

H1C11007 CELL NO. 2 – SITE DEVELOPMENT BASE GRADING SHEET
H1C11008 CELL NO. 1 AND CELL NO. 2 – FINAL STACKING PLAN
H1C11012 CELL 2 – SECTION C-C AND SECTION D-D PERIMETER DIKE THROUGH FINAL STACK
H1C11014 CELL NO. 1 AND CELL NO. 2 DIKE SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS

GEORGIA REGISTERED No. 12967 PROFESSIONAL ENGINEER GARY M. McWHORTER 10/19/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

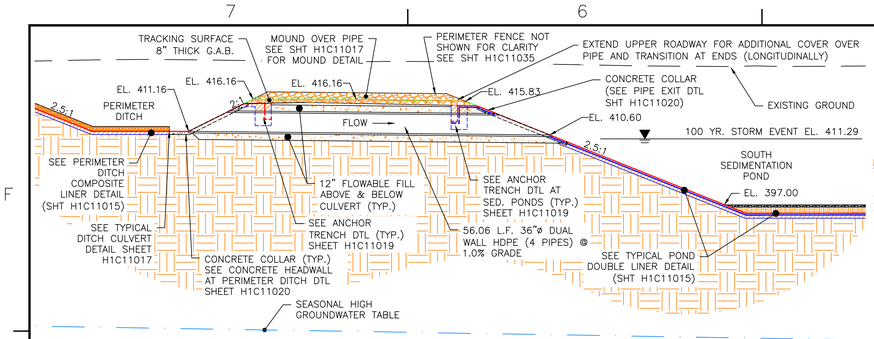
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

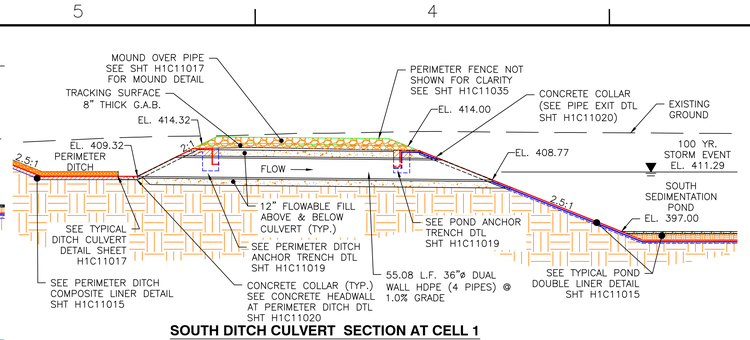
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'T'D	REV
AS NOTED	010505	H1C11015A	1	FINAL	0

ANSI F: 40x28 Acad2004



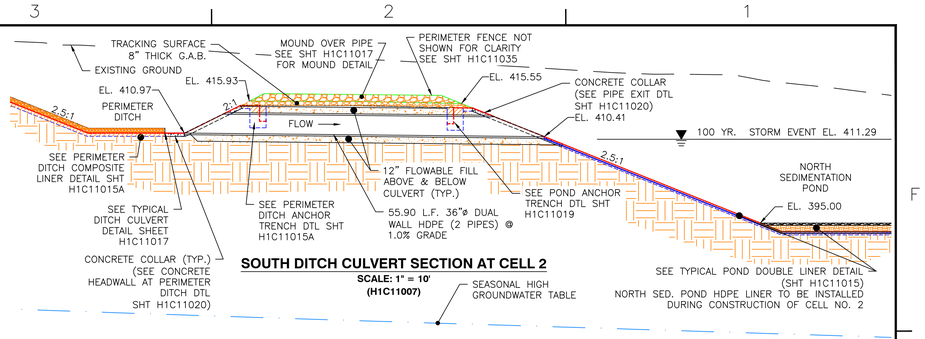
NORTH DITCH CULVERT SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)



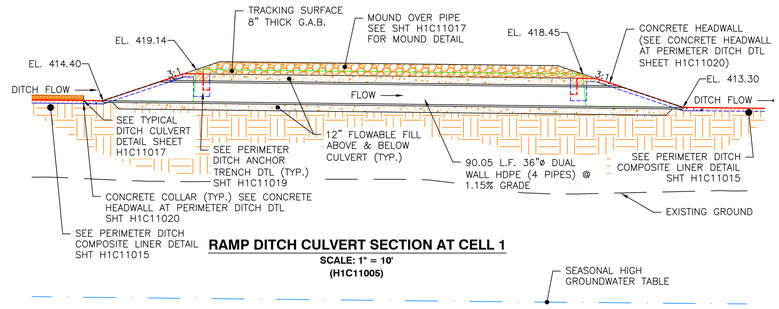
SOUTH DITCH CULVERT SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)



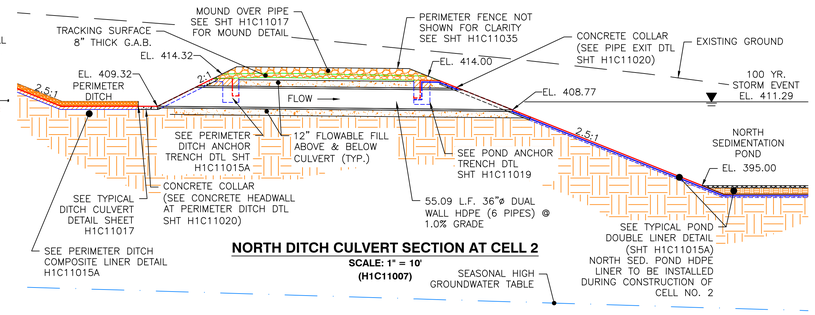
SOUTH DITCH CULVERT SECTION AT CELL 2

SCALE: 1" = 10'
(H1C11007)



RAMP DITCH CULVERT SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)

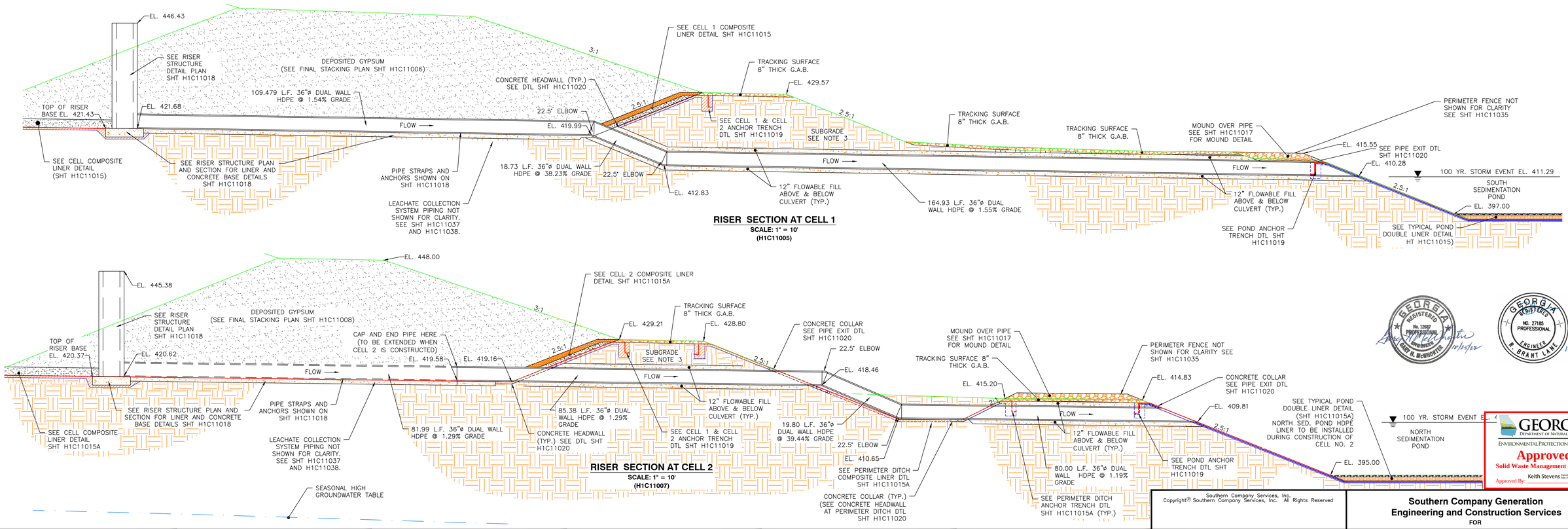


NORTH DITCH CULVERT SECTION AT CELL 2

SCALE: 1" = 10'
(H1C11007)

NOTE:
1. DECANT PIPES AND DITCH CULVERT PIPES SHALL BE HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE.
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:
H1C11006 CELL NO. 1 FINAL STACKING PLAN
H1C11008 CELL NO. 1 AND CELL NO. 2 FINAL STACKING PLAN
H1C11011 CELL NO. 1 SECTION A-A AND SECTION B-B PERIMETER DIKE THROUGH FINAL STACK
H1C11012 CELL NO. 2 SECTION C-C AND SECTION D-D PERIMETER DIKE THROUGH FINAL STACK
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11018 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS DETAILS
H1C11035 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS AND DETAILS
H1C11037 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT
H1C11038 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM DETAILS



RISER SECTION AT CELL 1

SCALE: 1" = 10'
(H1C11005)

RISER SECTION AT CELL 2

SCALE: 1" = 10'
(H1C11007)

REVISION	DATE
REVISION 0	10-24-2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

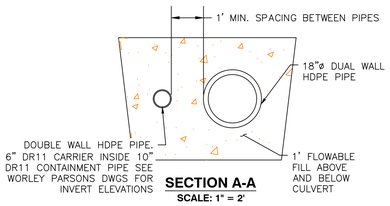
Southern Company Generation
Engineering and Construction Services
FOR

Georgia Power Company

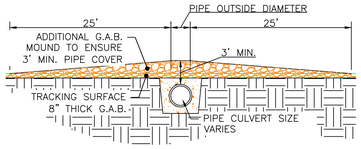
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11016	1	FINAL	0

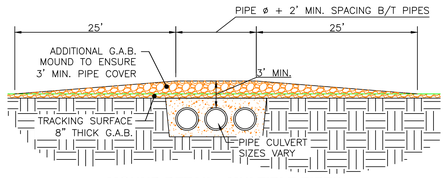
ANSI F: 40x28 Acad2004



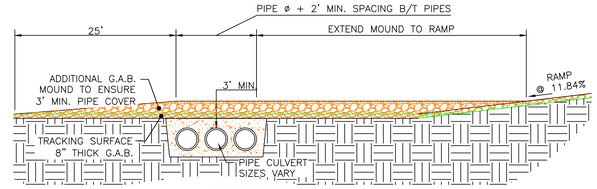
SECTION A-A
SCALE: 1" = 2'



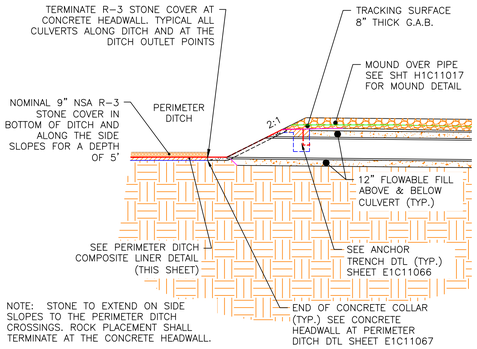
MOUND DETAIL-SINGLE PIPE
SCALE: 1" = 10'
(H1C11016 & H1C11017)



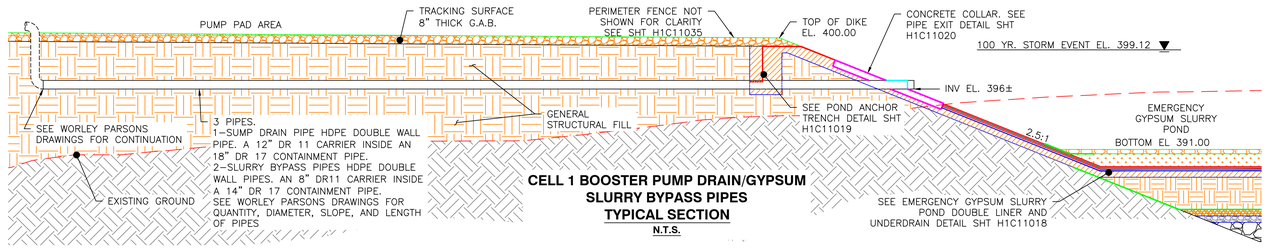
MOUND DETAIL - MULTIPLE PIPES
SCALE: 1" = 10'
(H1C11016 & H1C11017)



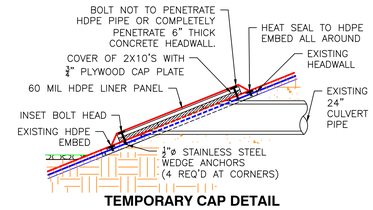
MOUND DETAIL @ RAMP - MULTIPLE PIPES
SCALE: 1" = 10'
(H1C11016 & H1C11017)



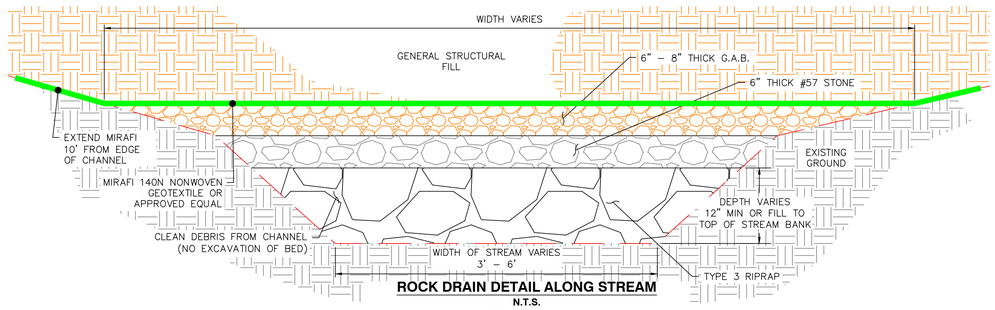
TYPICAL DITCH CULVERT DETAIL AT CELL 1 (4 LOCATIONS)
SCALE: 1" = 10'
(H1C11005)



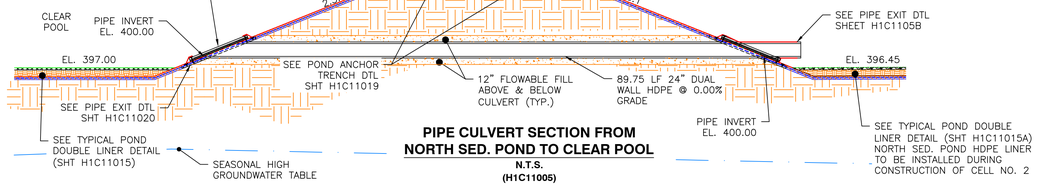
CELL 1 BOOSTER PUMP DRAIN/GYPSUM SLURRY BYPASS PIPES TYPICAL SECTION
N.T.S.



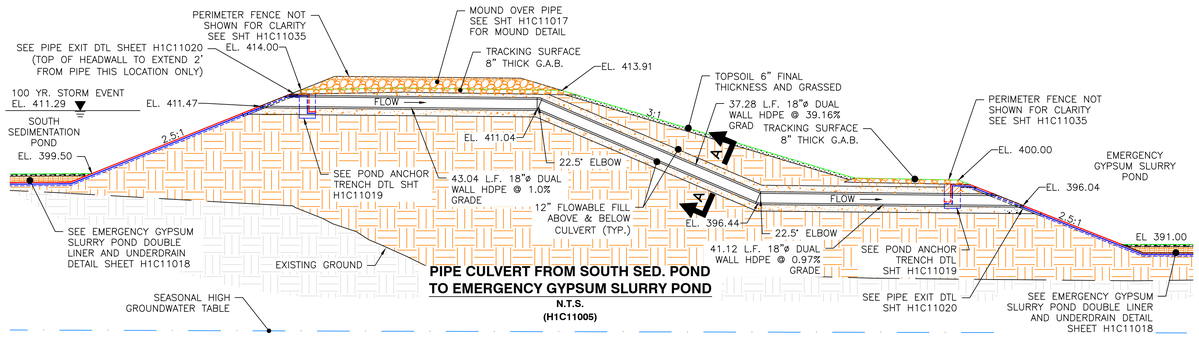
TEMPORARY CAP DETAIL TYP. FOR EACH END OF CULVERT BETWEEN NORTH SED. POND AND CLEAR POOL
N.T.S.



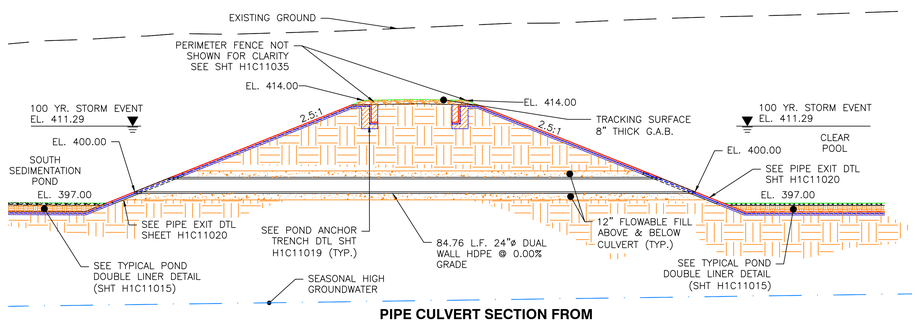
ROCK DRAIN DETAIL ALONG STREAM
N.T.S.
H1C11005



PIPE CULVERT SECTION FROM NORTH SED. POND TO CLEAR POOL
N.T.S.
(H1C11005)



PIPE CULVERT FROM SOUTH SED. POND TO EMERGENCY GYPSUM SLURRY POND
N.T.S.
(H1C11005)



PIPE CULVERT SECTION FROM SOUTH SED. POND TO CLEAR POOL
N.T.S.
(H1C11005)

NOTES:
1. DECANT PIPES AND DITCH CULVERT PIPES SHALL BE HANCOR BLUE SEAL OR ADS DUAL WALL/N-12 WT 1B HDPE PIPE
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Approved By:

GEORGIA REGISTERED No. 12887 PROFESSIONAL ENGINEER GARY H. McMORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. GRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS SECTIONS

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11017	1	FINAL	0

ANSI F: 40x28 Acad2004

NOTES:
1. FOR CORRESPONDING ELEVATIONS, PIPE LENGTHS AND SLOPES FOR EACH RISER STRUCTURE FOR CELLS 1 & 2 SEE SHEET H1C11016.
2. ALL CONCRETE AND METAL THAT WILL BE EXPOSED TO OR IN CONTACT WITH GYPSUM AND/OR GYPSUM SLURRY WATER SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS & CHEMICALS, INC. OR APPROVED EQUAL.
3. RISER STRUCTURE REINFORCEMENT SCHEDULE TO BE PROVIDED IN CONSTRUCTION DRAWINGS
4. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

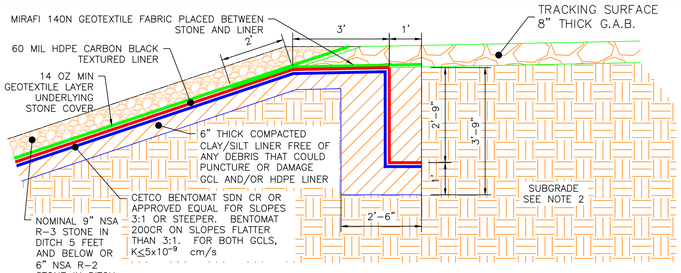
Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

REVISION 0 DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

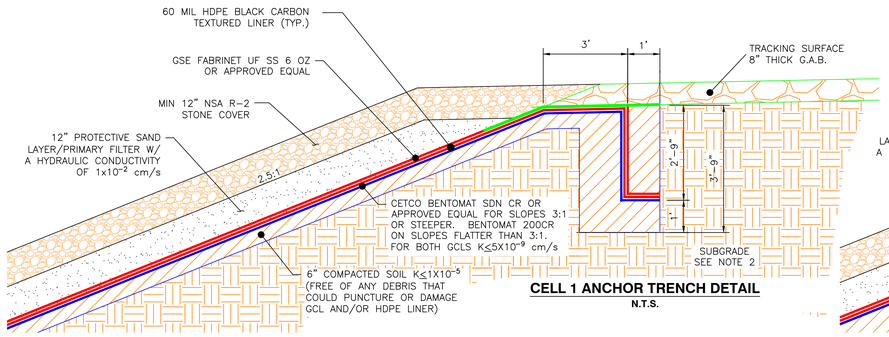
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS DETAILS

BY	CHK'D	SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL	AS NOTED	010505	H1C11018	1	FINAL	0

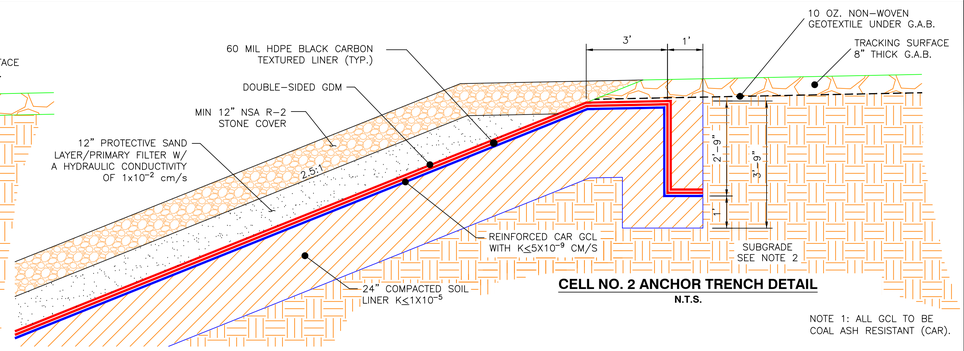
ANSI F: 40x28 Acad2004



PERIMETER DITCH ANCHOR TRENCH DETAIL FOR CELL 1
N.T.S.

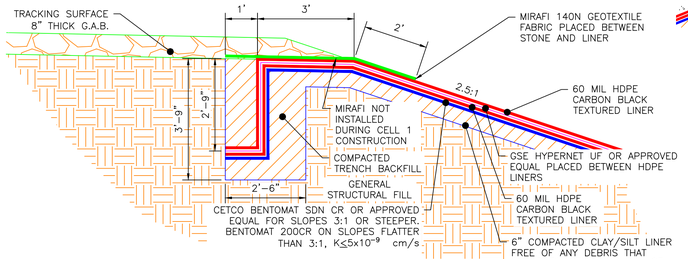


CELL 1 ANCHOR TRENCH DETAIL
N.T.S.

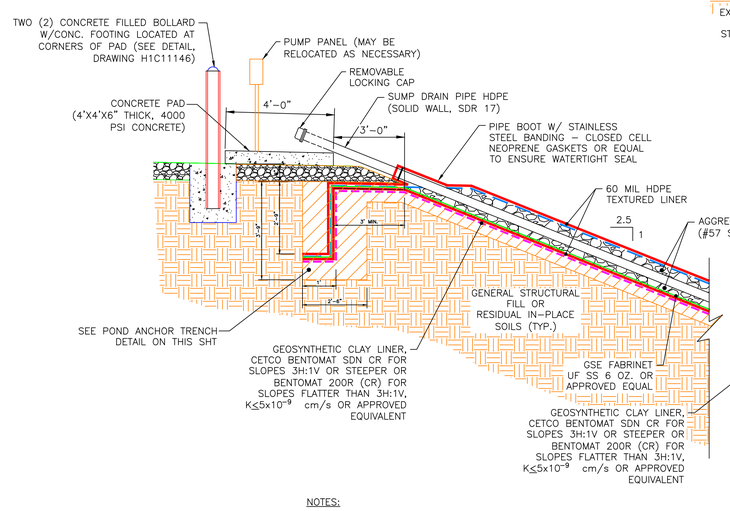


CELL NO. 2 ANCHOR TRENCH DETAIL
N.T.S.

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).



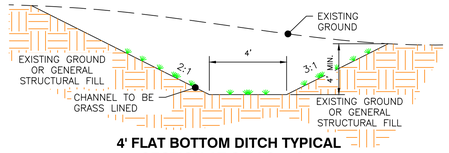
CELL NO. 1 (SOUTH BASIN) AND PAC/ASH PONDS ANCHOR TRENCH DETAIL
N.T.S.



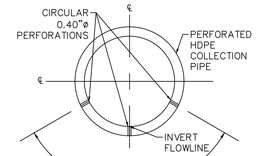
NOTES:

1. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
2. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.

TYPICAL CELL NO. 1 AND NO. 2 (SOUTH BASIN) AND PAC/ASH PONDS LEAKAGE DETECTION SUMP DETAIL
N.T.S.

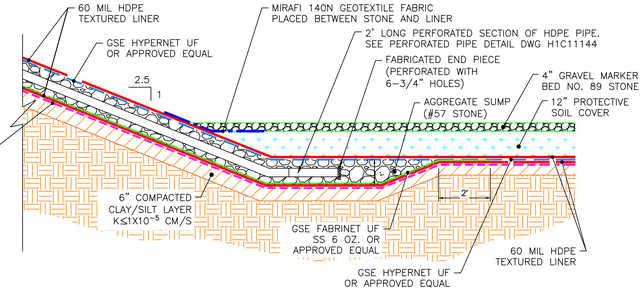


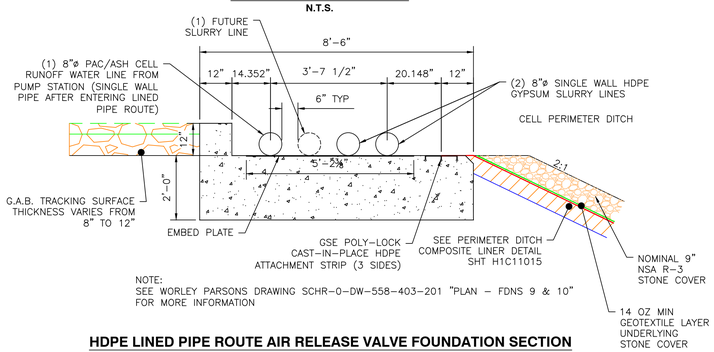
4' FLAT BOTTOM DITCH TYPICAL SECTION AT CELLS 1, & 2
N.T.S.



NOTE: AASHTO CLASS I PERFORATION FOR 18"ø PIPE–6 ROWS OF PERFORATIONS REQ'D PER FT–OF–PIPE (18 PER LF OF PIPE OR 36 TOTAL FOR 2' LONG PERFORATED SECTION)

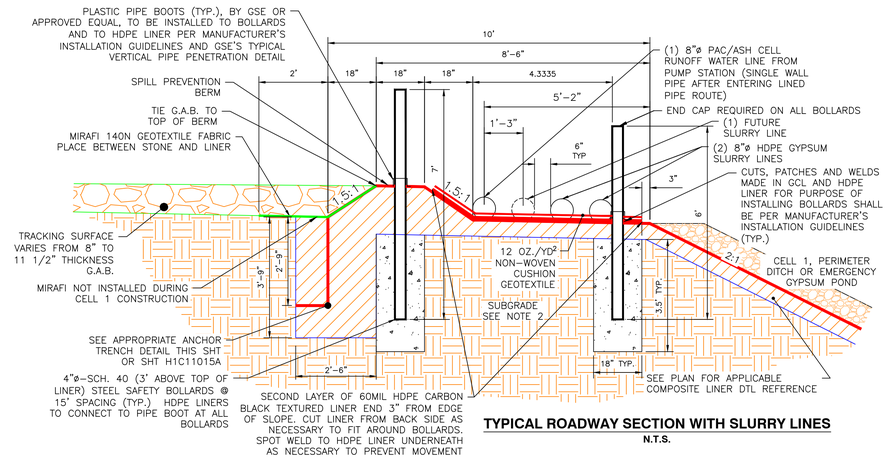
PERFORATED PIPE DETAIL
N.T.S.



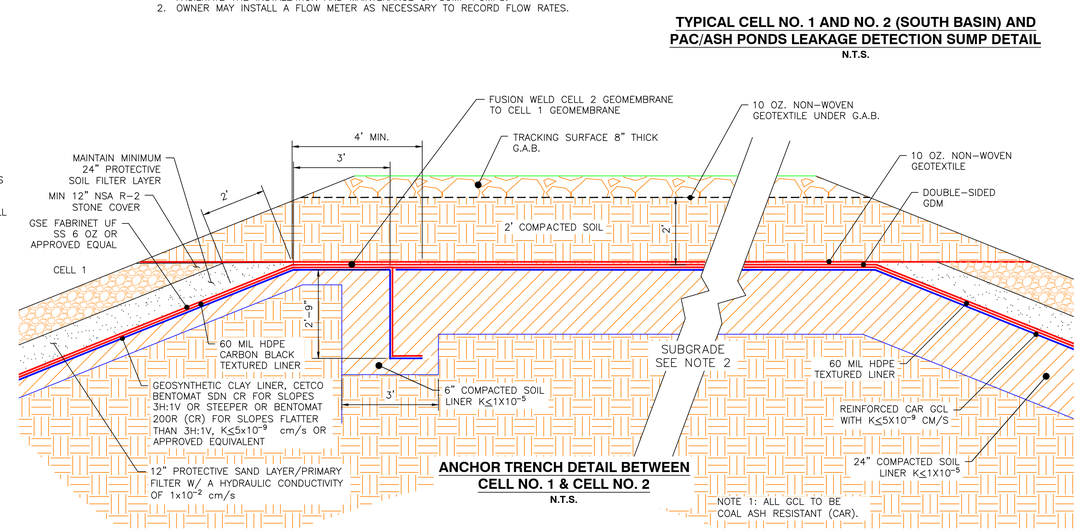


NOTE:
SEE WORLEY PARSONS DRAWING SCHR-0-DW-558-403-201 "PLAN – FDNS 9 & 10" FOR MORE INFORMATION

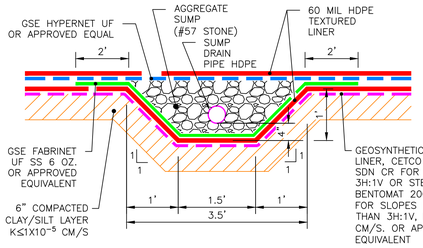
HDPE LINED PIPE ROUTE AIR RELEASE VALVE FOUNDATION SECTION
N.T.S.



TYPICAL ROADWAY SECTION WITH SLURRY LINES
N.T.S.



ANCHOR TRENCH DETAIL BETWEEN CELL NO. 1 & CELL NO. 2
N.T.S.



TYPICAL LEAKAGE DETECTION SUMP DRAIN PIPE DETAIL (CELL 1 AND PAC/ASH PONDS)
N.T.S.

NOTE:
1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN–PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF–ROLLING CRITERIA FOR IN–PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA REGISTERED No. 12087 PROFESSIONAL ENGINEER GARY W. MCWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

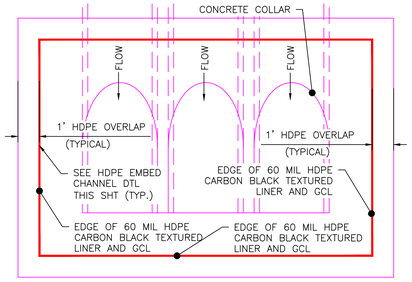
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANEOUS DETAILS

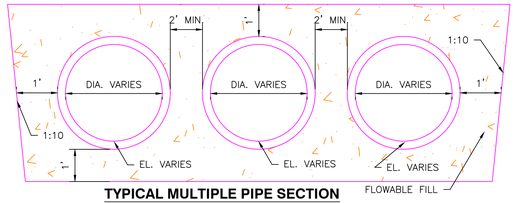
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 0	10-24-2022	ANR		RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11019	1	FINAL	0

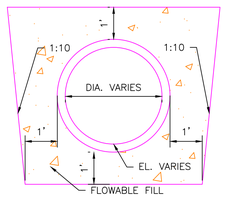
ANSI F: 40x28 Acad2004



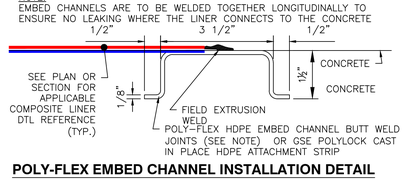
MULTIPLE PIPES HEADWALL TYPICAL PLAN
N.T.S.



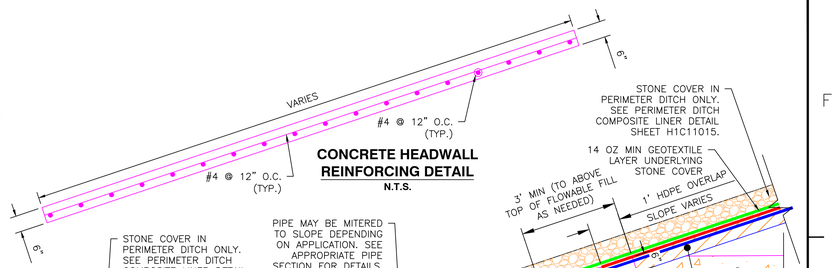
TYPICAL MULTIPLE PIPE SECTION
N.T.S.



TYPICAL SINGLE PIPE SECTION
N.T.S.

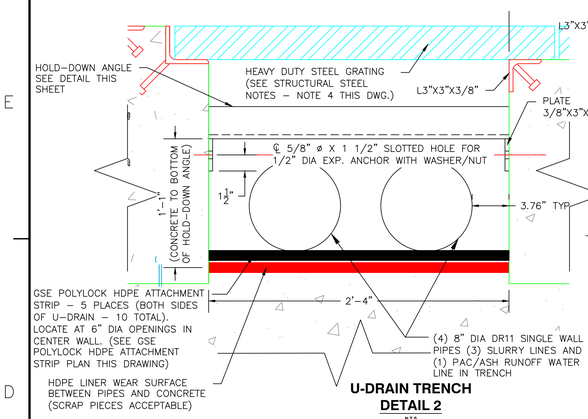


POLY-FLEX EMBED CHANNEL INSTALLATION DETAIL
N.T.S.



CONCRETE HEADWALL REINFORCING DETAIL
N.T.S.

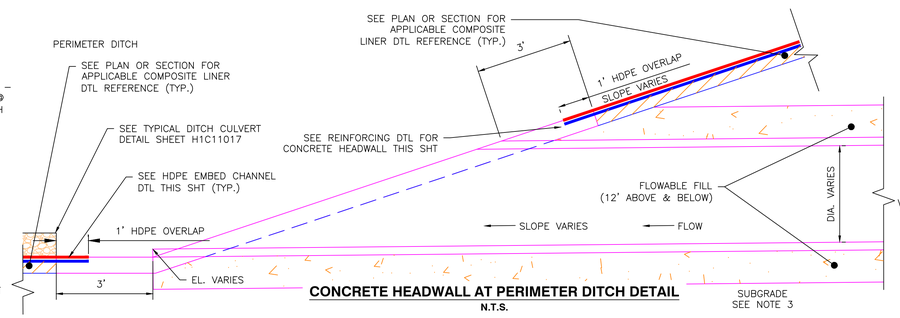
PIPE EXIT DETAIL
N.T.S.



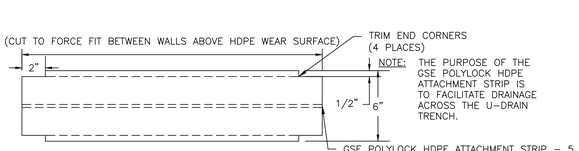
U-DRAIN TRENCH DETAIL 2
N.T.S

NOTES:
1. MEASURE WIDTH OF U–DRAIN TRENCH AT EACH LOCATION OF HOLD–DOWN ANGLE PRIOR TO FABRICATION OF HOLD–DOWN ANGLE.
2. HOLD–DOWN ANGLES TO BE INSTALLED (HAND–TIGHTENED) AND THEN REMOVED AND INSTALLED AGAIN AFTER INSTALLATION OF 4 SLURRY/WATER LINES.

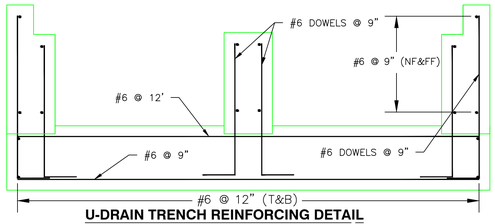
HOLD-DOWN ANGLE DETAIL
N.T.S



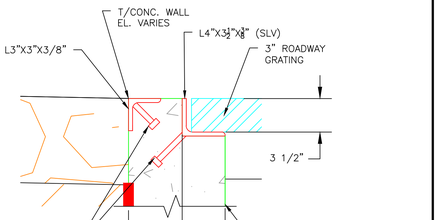
CONCRETE HEADWALL AT PERIMETER DITCH DETAIL
N.T.S.



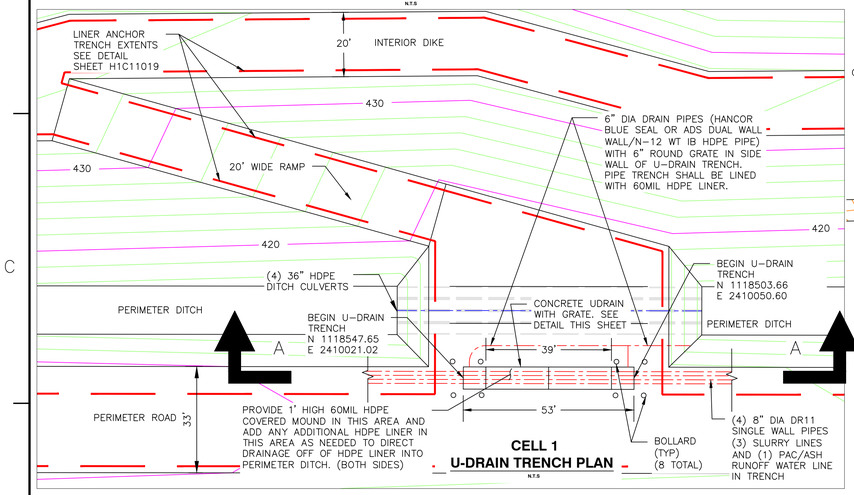
GSE POLYLOCK HDPE ATTACHMENT STRIP PLAN
N.T.S



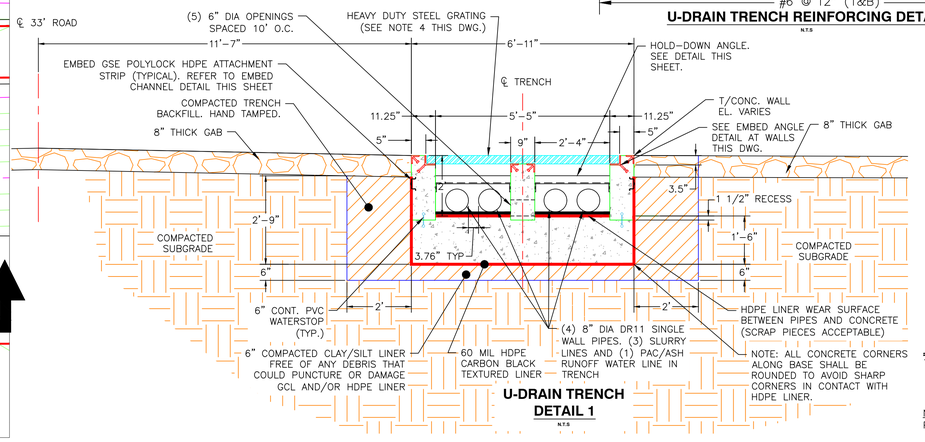
U-DRAIN TRENCH REINFORCING DETAIL
N.T.S



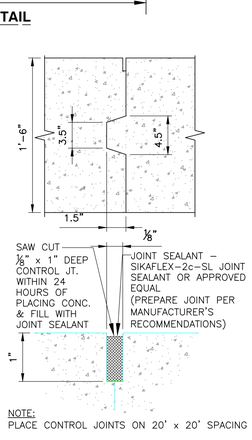
U-DRAIN TRENCH EMBED ANGLE DETAIL @ GRATING & WALL EDGES
N.T.S



CELL 1
U-DRAIN TRENCH PLAN
N.T.S

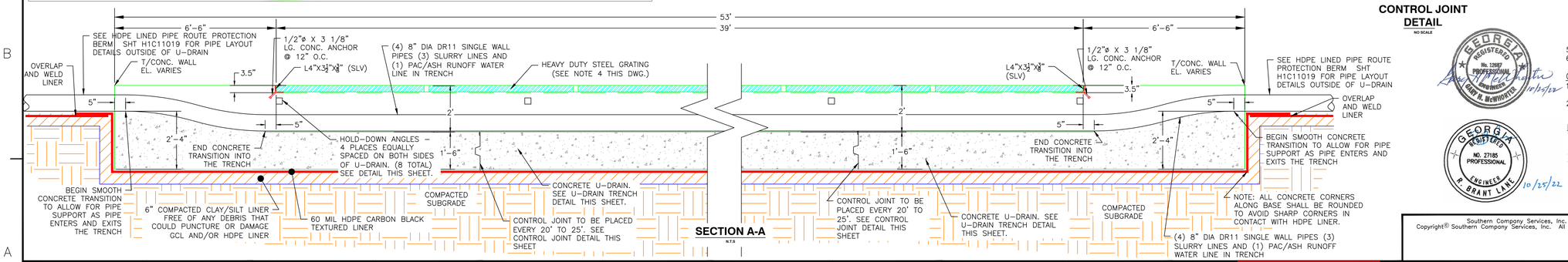


U-DRAIN TRENCH DETAIL 1
N.T.S



NOTE:
PLACE CONTROL JOINTS ON 20' x 20' SPACING

CONTROL JOINT DETAIL
NO SCALE



SECTION A-A
N.T.S

GEORGIA REGISTERED No. 12987 PROFESSIONAL ENGINEER BRIAN R. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3
MISCELLANEOUS DETAILS
SHEET 3

CONCRETE NOTES:
1. IF READY–MIX CONCRETE IS TO BE USED FROM AN APPROVED SUPPLIER, ALL CONC. SHALL BE IN PLACE WITHIN 1 1/2 HOURS AFTER MIXING, UNLESS LONGER TIME IS PERMITTED BY THE PURCHASER.
2. ALL CONCRETE SHOWN ON THIS DRAWING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 28 DAYS.
3. ALL REINFORCING SHALL HAVE 2" MINIMUM COVER OF CONCRETE WHERE FORMS ARE USED AND 3" MIN– IMUM COVER WHEN POURED AGAINST THE GROUND.
4. CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH THE FOLLOWING:
   BASE SLAB SURFACE – SMOOTH FINISH
   FORMED SURFACE – SMOOTH FORM
5. BEVEL EXPOSED EDGES OF CONC. 3/4", UNLESS NOTED. 6. ALL REINFORCING SHALL CONFORM TO ASTM SPEC. A615, GRADE 60. 7. CONTROL JOINTS SHALL BE INSTALLED EVERY 20 TO 25 FEET

STRUCTURAL STEEL NOTES:
1. STRUCTURAL STEEL SHALL BE A.S.T.M. A36.
2. (a) DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE A.I.S.C. SPECIFICATIONS, NINTH EDITION AND THE CODE OF STANDARD PRACTICE.
3. THE STEEL FABRICATOR SHALL OBTAIN APPROVAL OF HIS DETAIL DRAWINGS PRIOR TO BEGINNING OF FABRICATION OF DETAILED ITEMS.
4. STEEL GRATING SHALL BE IKG INDUSTRIES RIVETED ROADWAY GRATING TYPE R/W–14B (GALVANIZED) OR APPROVED EQUAL. THE GRATING MATERIAL SHALL CONFORM TO ASTM A588 STEEL SPECS. FOR THE MAIN BEARING BARS. MAIN BARS TO BE 3" DEEP BY 5/16" THICK, SPACED AT 25/16" CENTERS. THE CRIMP BAR MATERIAL TO BE MILD STEEL SPECIFICATION AND SHALL BE 1½"×3/16", RIVETED TO THE MAIN BARS ON 5" CENTERS WITH 3/8" DIAMETER RIVETS. THE MAXIMUM GRATING SPAN BETWEEN SUPPORTS SHALL BE 2'–4" AND SHALL SATISFY THE AASHTO REQUIREMENTS FOR H20 LOADINGS.
5. STEEL GRATE SHALL BE HS20 LOADING WITH A MAXIMUM 80,000 LB LOAD
6. ALL MISCELLANEOUS STEEL TO BE GALVANIZED.

GENERAL NOTES:
1. FOR DESCRIPTION AND CLASSIFICATION OF GENERAL STRUCTURAL FILL, SELECT STRUCTURAL FILL AND CLAY LINER MATERIAL SEE TECHNICAL SPECIFICATIONS.
2. LINER SHALL BE TRANSITIONED FROM THE DITCH TO THE CONCRETE BOXES IN A MANNER THAT ENSURES THE DITCH AND BOX TO BE WATERTIGHT.

NOTES:
1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09G.
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN–PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF–ROLLING CRITERIA FOR IN–PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REVISION	DATE
REVISION 0	DATE 10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11020	1	FINAL	0

ANSI F: 40x28 Acad2004

PLANT SCHERER COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
DESCRIPTION OF GENERAL CELL FILLING OPERATIONS

1. FILLING OPERATIONS BEGIN WITH THE DISCHARGE OF GYPSUM SLURRY INTO ONE SIDE OF THE DIVERSION BERM. THE SLURRY WILL BE DIRECTED ALONG ONE SIDE OF THE CELL'S PERIMETER DIKE SLOPE TOWARD THE FAR DOWNSTREAM END OF THE CELL (PHASE 1). THE GYPSUM WILL SETTLE OUT AS THE SLURRY FLOWS ALONG THE PERIMETER SLOPE. THIS SETTLING MAY BE FACILITATED BY PLACING CHECK BERMS OF SOIL OR GYPSUM ALONG THE FLOW PATH.
2. WHEN THE SETTLED GYPSUM HAS PROGRESSED IN DISTANCE ALONG THE PERIMETER DIKE, THE SLURRY DISCHARGE CAN BE DIRECTED TO THE OTHER SIDE OF THE DIVERSION BERMS TO BEGIN THE FILLING ALONG THE OPPOSITE SIDE OF THE CELL (PHASE 2). THIS WILL ALLOW THE EXCAVATION OF THE RIM DITCH ALONG THE PREVIOUS PHASE 1 SIDE.
3. THE PHASE 1 RIM DITCH WILL BE INITIALLY EXCAVATED BY A TRACKED EXCAVATOR LOCATED ON THE PERIMETER BERM. AS THE RIM DITCH IS EXCAVATED, THE GYPSUM WILL BE CAST AND STACKED ON THE NEAR SIDE AS WELL AS THE FAR SIDE OF THE RIM DITCH AS THE EXCAVATOR TRAVELS ALONG THE DIKE. THE SLOPE OF THE INVERT OF THE RIM DITCH SHOULD BE KEPT APPROXIMATELY 0.5% TO FACILITATE THE SETTLING OF GYPSUM.
4. THE RIM DITCH MAY BE BLOCKED/DAMMED AT ANY POINT SO THAT THE FUTURE GYPSUM SLURRY MAY BE DIRECTED TOWARD THE INTERIOR OF THE CELLS IN LATERAL DITCHES.
5. ONCE THE RIM DITCH IS EXCAVATED SUCH THAT FLOW WILL BE IN THE DESIRED DIRECTION, THE SLURRY DISCHARGE MAY BE DIRECTED INTO THE PHASE 1 RIM DITCH OR INTO A NEW PHASE 3 AREA WHERE SETTLED GYPSUM IS DESIRED.
6. THE PHASE 2 RIM DITCH IS EXCAVATED IN THE SECOND AREA OF SETTLED GYPSUM.
7. THE CAST GYPSUM EXCAVATED FROM THE RIM DITCHES WILL BE SPREAD BY TRACKED DOZERS, ALONG THE DIRECTION OF THE RIM DITCHES AND ON BOTH SIDES, TO PROVIDE WORKING PADS FOR EXCAVATION OF FUTURE RIM DITCHES AS WELL AS SECTIONS FOR RAISING THE GYPSUM STACK.
8. THIS METHOD OF ALLOWING GYPSUM SETTLEMENT AND RIM AND LATERAL DITCH EXCAVATION IN PHASES WILL BE UTILIZED FOR FILLING TO THE FINAL STACK ELEVATIONS.
9. AS FILLING OF THE FIRST LIFT PROGRESSES, SLURRY WATER AND STORM WATER ARE DIRECTED TO THE LOW END OF THE CELL TOWARDS THE RISER AND DISCHARGE PIPE.
10. AS THE RIM DITCHES ARE EXCAVATED, A MINIMUM OF 3 FEET OF GYPSUM SHALL BE LEFT IN PLACE ABOVE THE DRAINAGE SYSTEM TO PROVIDE A PROTECTIVE LAYER.
11. THE RISER AND DISCHARGE ASSEMBLY MAY BE USED AS LONG AS PRACTICAL TO PROVIDE DRAINAGE FROM WITHIN THE CELL TO THE SEDIMENTATION BASIN. HOWEVER, IT IS ANTICIPATED THAT THE USE OF THIS ASSEMBLY WILL BE TERMINATED AFTER FILLING OF THE FIRST 20 FT. LIFT ABOVE THE PERIMETER BERM. AT THAT TIME THE SIPHON DISCHARGE SYSTEM WILL BE INSTALLED FOR USE AND THE RISER/DISCHARGE ASSEMBLY WILL BE ABANDONED IN PLACE.
12. THE SIPHON SPILLWAY, DISCHARGING TO THE PERIMETER DITCH, WILL BE UTILIZED FOR CONTROLLING THE LEVEL OF SLURRY AND STORM WATER DURING FILLING AND RAISING OF EACH 20 FT. LIFT. A SECOND SIPHON WILL BE INSTALLED AND BE OPERABLE FOR THE SUBSEQUENT 20 FT. LIFT BEFORE MOVING THE PREVIOUS SIPHON.
13. FOR EACH SUBSEQUENT LEVEL OF GYPSUM SLUICING AND GYPSUM DIKE AND RIM DITCH CONSTRUCTION, THE SAME CONSTRUCTION TECHNIQUES AND OPERATIONS WILL APPLY. GYPSUM SLUICE LINES WILL BE PROGRESSIVELY EXTENDED UP THE GYPSUM SLOPES TO THE NEXT LEVEL AS FILLING PROGRESSES.
14. GYPSUM SLOPES WILL BE MAINTAINED UNTIL THE FINAL COVER SYSTEM IS PLACED.
15. THE CELLS WILL BE CLOSED IN ACCORDANCE WITH THE CLOSURE PLAN.

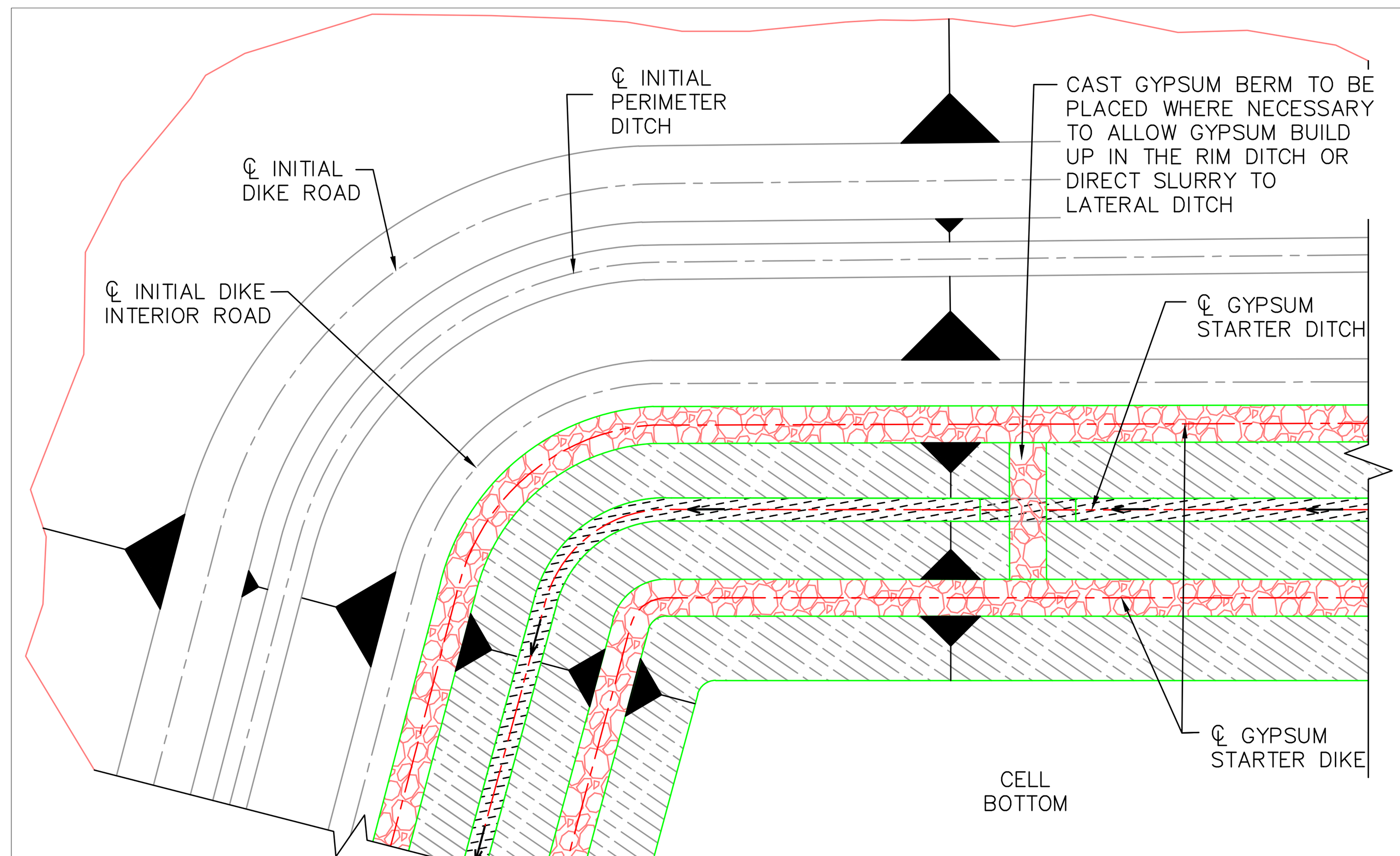
ABANDONMENT PROCEDURES
RISER STRUCTURE AND DECANT PIPE ASSEMBLY
THE CELL 1 AND CELL 2 RISER STRUCTURE AND DECANT PIPE ASSEMBLE WILL BE ABANDONED IN PLACE ONCE THE RESPECTIVE STRUCTURE HAS REACHED ITS INTENDED SERVICE LIFE, TYPICALLY, AS THE DEPOSITED GYPSUM REACHES OR APPROACHES THE UPPER ELEVATIONS DEFINED BY THE PERIMETER BERM OR ELEVATION OF THE RISER STRUCTURE.

ABANDONMENT OF THE CONCRETE RISER STRUCTURE AND HDPE DECANT PIPE ASSEMBLY WILL BE ACCOMPLISHED BY COMPLETELY FILLING THE DECANT PIPE AND THE LOWER PORTION OF THE RISER STRUCTURE WITH A SELF-LEVELING, LOW STRENGTH, NON-SHRINK, FLOWABLE FILL, GROUT, OR LIGHTWEIGHT CELLULAR CONCRETE IN GENERAL ACCORDANCE WITH THE FOLLOWING PROCEDURES.

1. THE DECANT PIPE UPSTREAM OPENING IN THE RISER STRUCTURE SHALL BE BLOCKED/SEALED WITH A STEEL BULKHEAD. A GROUT INJECTION PORT SHALL BE PROVIDED IN THE TOP PORTION OF THE BULKHEAD, EXTENDING INTO THE HDPE DECANT PIPE. THE UPSTREAM END OF THE INJECTION PORT SHALL BE AFFIXED WITH A 90 ° ELBOW AND PIPE EXTENSION TO RECEIVE THE VERTICAL GROUT PIPE FROM INSIDE THE RISER STRUCTURE. THE VERTICAL PIPE FROM THE INJECTION PORT SHALL EXTEND TO ABOVE THE LEVEL OF CONCRETE POURED TO PLUG THE BOTTOM OF THE RISER (SEE #4 BELOW).
2. A VERTICAL GROUT PIPE SHALL BE THREADED ONTO THE INJECTION PORT EXTENSION AFFIXED TO THE STEEL BULKHEAD AND EXTEND UPWARD TO THE TOP OF THE RISER STRUCTURE.
3. THE VERTICAL GROUT PIPE SHALL BE EQUIPPED WITH A BLEED VALVE AND PRESSURE GAGE ASSEMBLY BELOW THE GROUT NOZZLE ATTACHMENT POINT.
4. THE BOTTOM OF THE RISER STRUCTURE SHALL BE FILLED WITH CONCRETE TO A HEIGHT OF 1.5 TIMES THE DIAMETER OF THE DECANT PIPE.
5. THE DOWNSTREAM OUTLET OF THE DECANT PIPE SHALL BE SEALED WITH A BULKHEAD OR CONCRETE PLUG.
6. THE DECANT PIPE SHALL BE FILLED WITH A FLOWABLE, SELF-LEVELING GROUT OR CONCRETE.
7. THE GROUT OR FLOWABLE CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ABANDONMENT.
8. THE REMAINING VERTICAL PORTION OF THE RISER STRUCTURE MAY EITHER BE FILLED WITH CONCRETE OR BACKFILLED WITH GYPSUM FROM THE DISPOSAL CELL.

EMERGENCY DISCHARGE POND OPERATION & MAINTENANCE
1. THE EMERGENCY DISCHARGE POND WILL BE EQUIPPED WITH A STAFF GAGE FOR MONITORING THE POND WATER ELEVATION. A FLOATING SUMP PUMP IS PROVIDED TO MAINTAIN THE WATER LEVEL WITHIN THE POND BELOW ELEV. 391. PROVISIONS ARE PROVIDED IN THE DESIGN FOR THE LIQUIDS PUMPED FROM THE EMERGENCY DISCHARGE POND TO DISCHARGE INTO THE SOUTH SEDIMENTATION BASIN.
2. THE WATER ELEVATION IN THE EMERGENCY DISCHARGE POND SHALL BE MONITORED ON A WEEKLY BASIS AND THE PUMP ENERGIZED AS REQUIRED TO MAINTAIN A NORMAL POND ELEVATION OF 388.
3. AN ACCESS RAMP INTO THE POND SHALL BE PROVIDED AND MAINTAINED FOR INGRESS AND EGRESS DURING CLEAN-OUT OPERATIONS. THE RAMP MAY BE CONSTRUCTED OF DEPOSITED OR HAULED GYPSUM, SOIL, OR A MIX OF BOTH MATERIALS. SPECIAL PRECAUTIONS SHALL BE TAKEN DURING CONSTRUCTION OF THE RAMP TO ENSURE THE INTEGRITY OF THE LINING SYSTEM.
4. A LIMIT OF EXCAVATION SHALL BE ESTABLISHED AND MONITORED DURING CLEAN-OUT OPERATIONS TO ENSURE THE LINER SYSTEM IS NOT DAMAGED.
5. EXCAVATED GYPSUM SHALL BE TRANSPORTED AND PLACED IN THE ACTIVE GYPSUM DISPOSAL CELL.

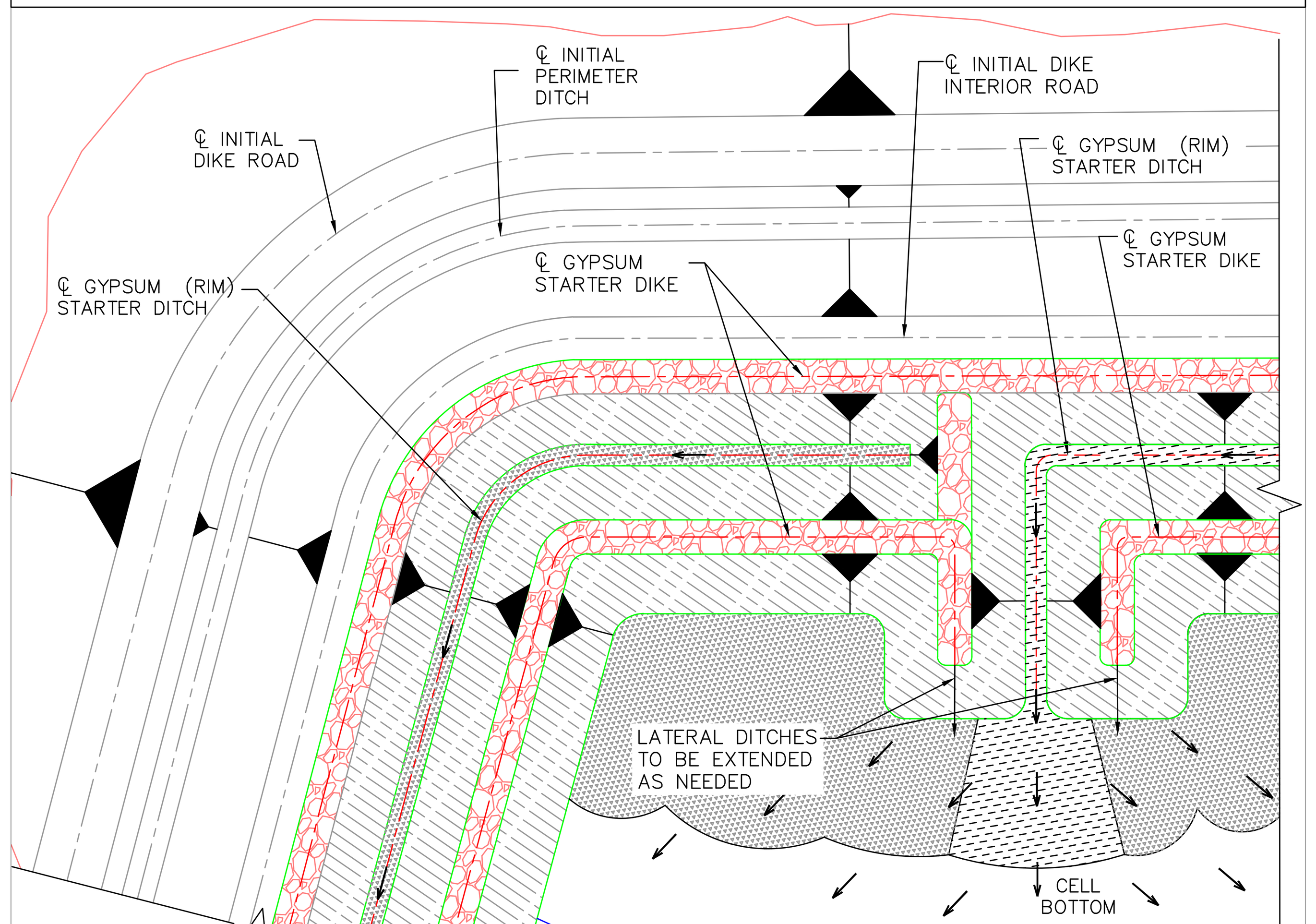
MATERIAL RECLAMATION FOR MARKET
1. ANY DRYING AND TEMPORARY STORAGE OF GYPSUM FOR POSSIBLE REUSE WILL BE ACCOMPLISHED WITHIN THE FOOTPRINT OF THE CELL. AN AREA, OR AREAS, CAN BE PROVIDED WITHIN THE CELL BY DIRECTING SLURRY AWAY FROM THE STORAGE/DRYING AREA SUCH THAT THE AREA AND STOCKPILES CAN BE WORKED APPROPRIATELY.



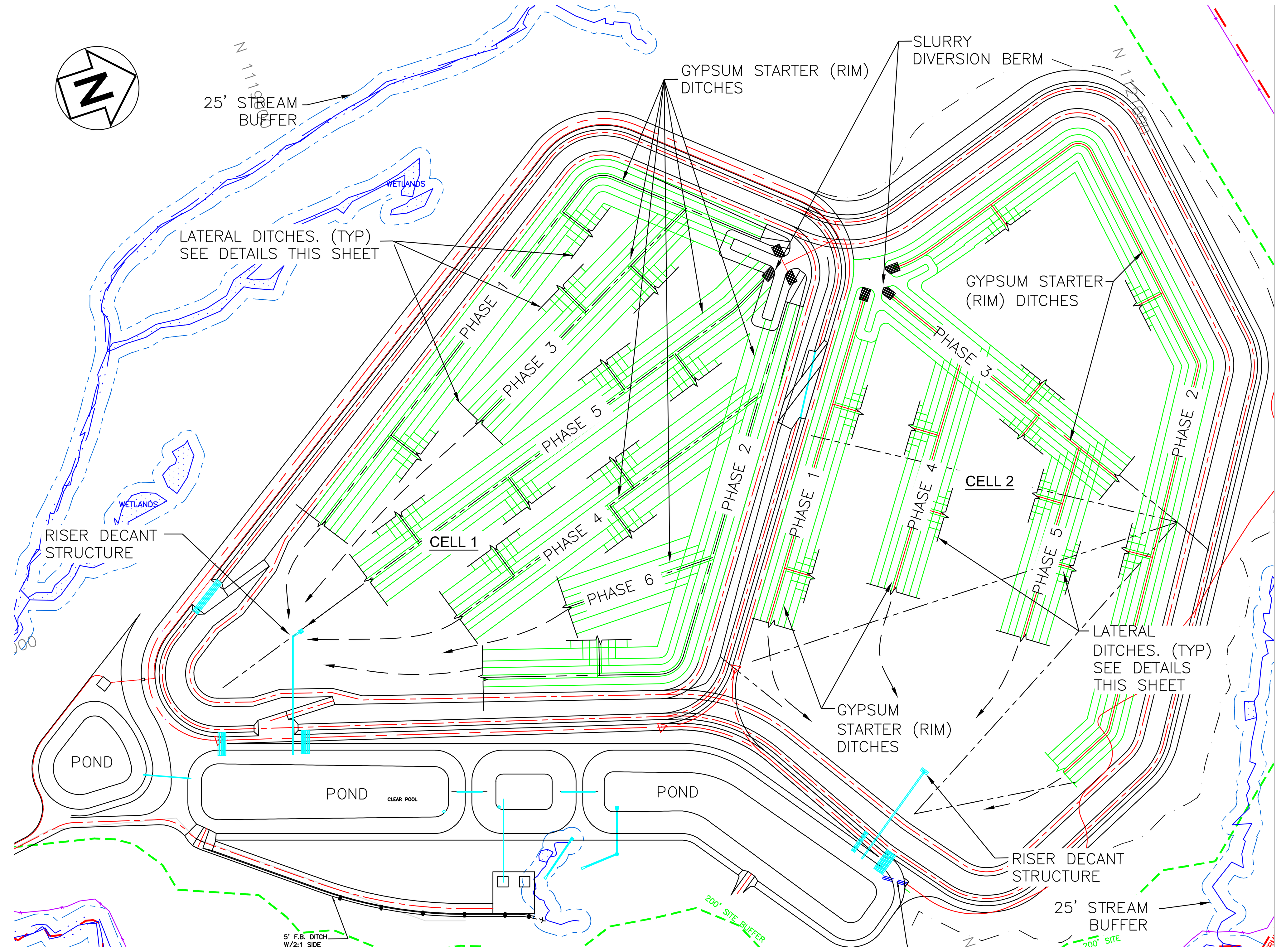
TYPICAL GYPSUM STARTER (RIM) DITCH DETAIL
(NTS)

LEGEND:

- CAST GYPSUM DIKE
- CAST GYPSUM DIKE SLOPES (3:1)
- SLUICED GYPSUM
- SETTLED GYPSUM
- WATER PONDING



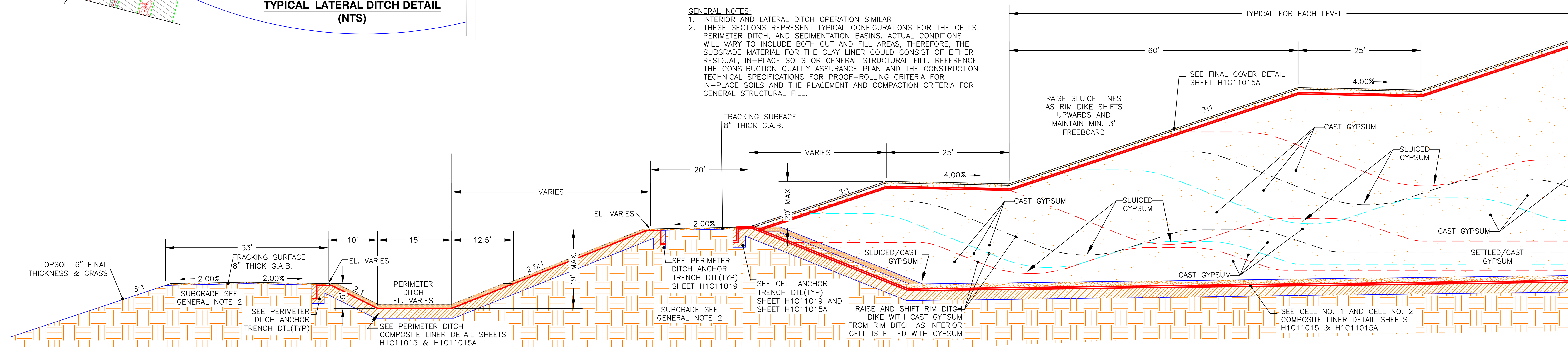
TYPICAL LATERAL DITCH DETAIL
(NTS)



GYPSUM STARTER (RIM) DITCH & LATERAL DITCH TYPICAL PLAN
NTS

NOTE:
ACTUAL RIM STARTER DITCH AND LATERAL DITCH ARRANGEMENT MAY VARY BASED ON OPERATION

GENERAL NOTES:
1. INTERIOR AND LATERAL DITCH OPERATION SIMILAR
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.



TYPICAL GYPSUM STACK DEVELOPMENT
(NTS)

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. GRANT LANE 10/25/22

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

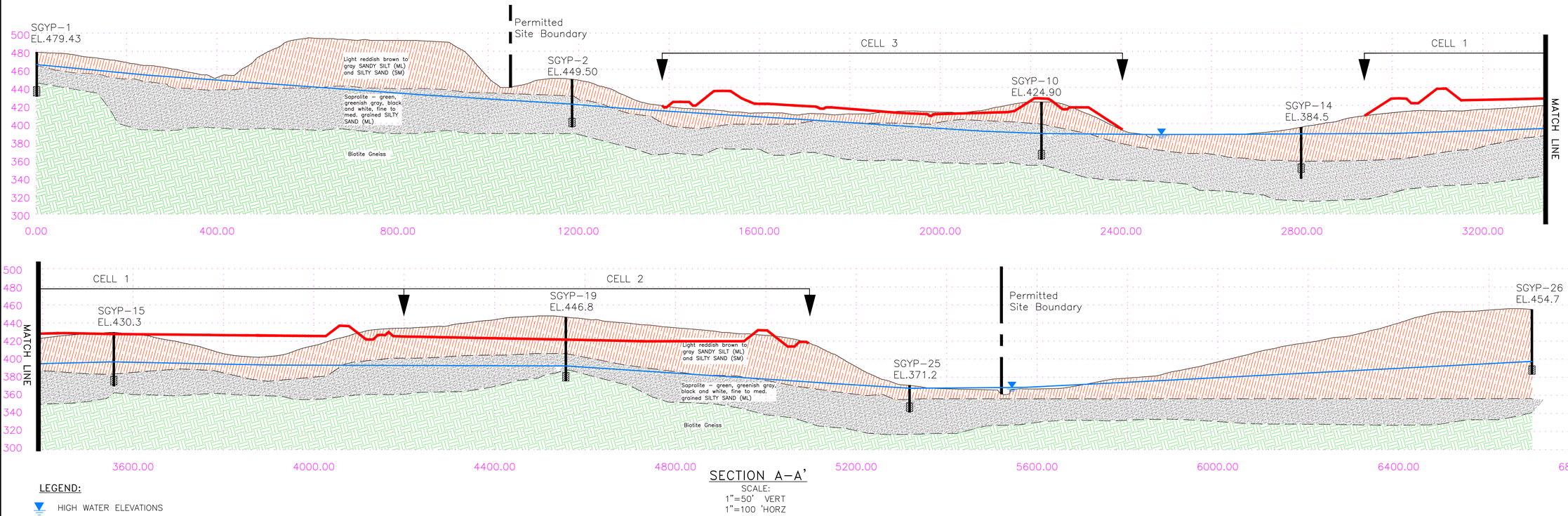
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
FILLING AND OPERATION PLAN

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 10-24-2022
								CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11021	1	FINAL	0

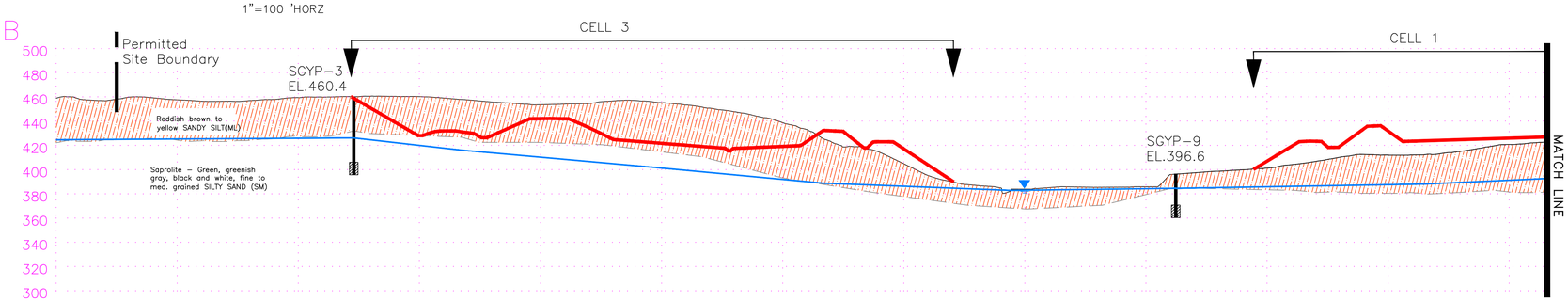
ANSI F: 40x28 Acad2008

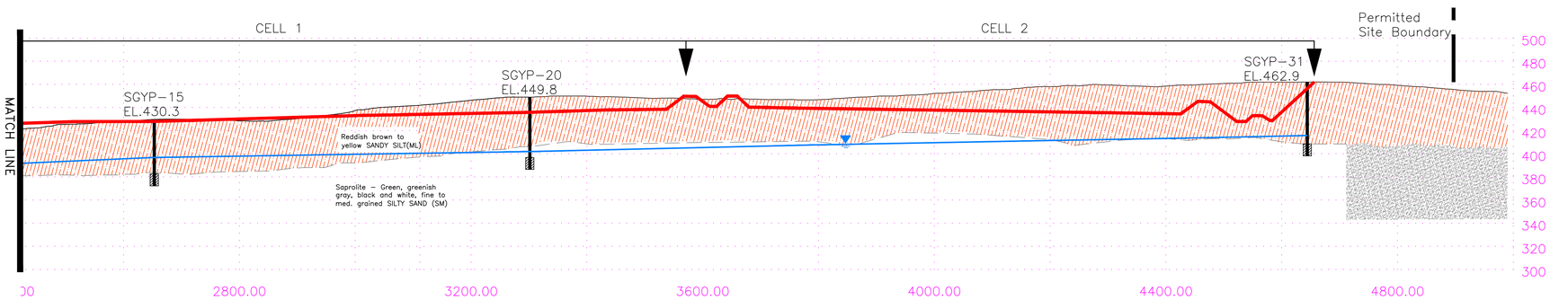


SECTION A–A'

SCALE:
1"=50' VERT
1"=100 'HORZ

B–B





SECTION B–B'

SCALE:
1"=50' VERT
1"=100 'HORZ

LEGEND:

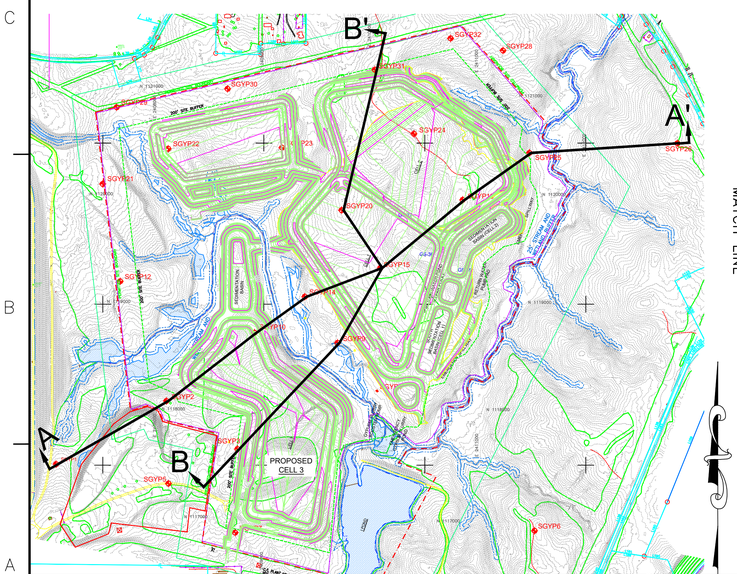
- HIGH WATER ELEVATIONS
- BASE GRADE (TOP OF SOIL LINER) OF WASTE DISPOSAL CELLS

GRAPHIC SCALE

600 0 300 600 1200 1800

(IN FEET)
1 inch = 600 ft.

NOTES:
1. PAC/ASH GEOLOGIC SECTIONS SHOWN ON H1C11054.



The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in December 2008 in support of the Industrial Solid Waste Permit 102-009D(LI). The drawing was subsequently modified with final approval from EPD occurring in May 2011. All noted submittals were sealed by a professional engineer and professional geologist licensed in the state of Georgia. The information on this sheet is provided for reference only and has not been amended by Hodges, Harbin, Newberry and Tribble, Inc. or Bunnell Lammons Engineering, Inc.

ANDREW W. ALEXANDER No.1485 GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
GEOLOGIC SECTIONS A–A' AND B–B'

REVISION	DATE
0	10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	H1C11026	1	FINAL	0

ANSI F: 40x28 Acad2008

LOCATION MAP
SCALE AS SHOWN

MONROE COUNTY
GEORGIA

GRID NORTH
NAD 83(1994)
WEST ZONE

SGYP33 369.55
SGYP32 397.56
SGYP28 379.88
SGYP31 415.77
SGYP30 424.59
SGYP29 437.79
SGYP24 404.49
SGYP23 405.60
SGYP22 423.59
SGYP25 364.37
SGYP26 397.20
SGYP21 435.85
SGYP19 391.72
SGYP20 402.15
SGYP37
SGYP34 NS
SGYP36
SGYP15 392.24
SGYP12 417.54
SGYP35
SGYP14 384.56
SGYP 0 386.45
SGYP9 382.81
SGYP4 NS
SGYP2 419.51
SGYP 422.86
SGYP1 460.59
SGYP5 NS
SGYP7 420.01
SGYP6 417.44

25' STREAM AND WETLAND BUFFER

PERMITTED SITE BOUNDARY

200' SITE BUFFER

EXISTING C/D LANDFILL
PERMIT #102-0070(L)(1)

LEGEND:
- LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- 25' WETLAND & STREAM BUFFER
- GROUNDWATER CONTOUR
- FLOW ARROW
- STREAM OR CREEK
- EXISTING CONTOURS
- WETLAND
- PIEZOMETER LOCATION

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Beverly Tipton

The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in December 2008 in support of the Industrial Solid Waste Permit 102-009D(LI). The drawing was subsequently modified with final approval from EPD occurring in May 2011. All noted submittals were sealed by a professional engineer and professional geologist licensed in the state of Georgia. The information on this sheet is provided for reference only and has not been amended by Hodges, Harbin, Newberry and Tribble, Inc. or Bunnell Lammons Engineering, Inc.

ANDREW W. ALEXANDER No.1485 REGISTERED PROFESSIONAL GEOLOGIST GEORGIA

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE

10/25/22

GRAPHIC SCALE
250 125 0 125 250 375 500 625 750
(IN FEET)
1 inch = 250 ft.

REVISION	DATE

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION	DATE

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR

REVISION 0	DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

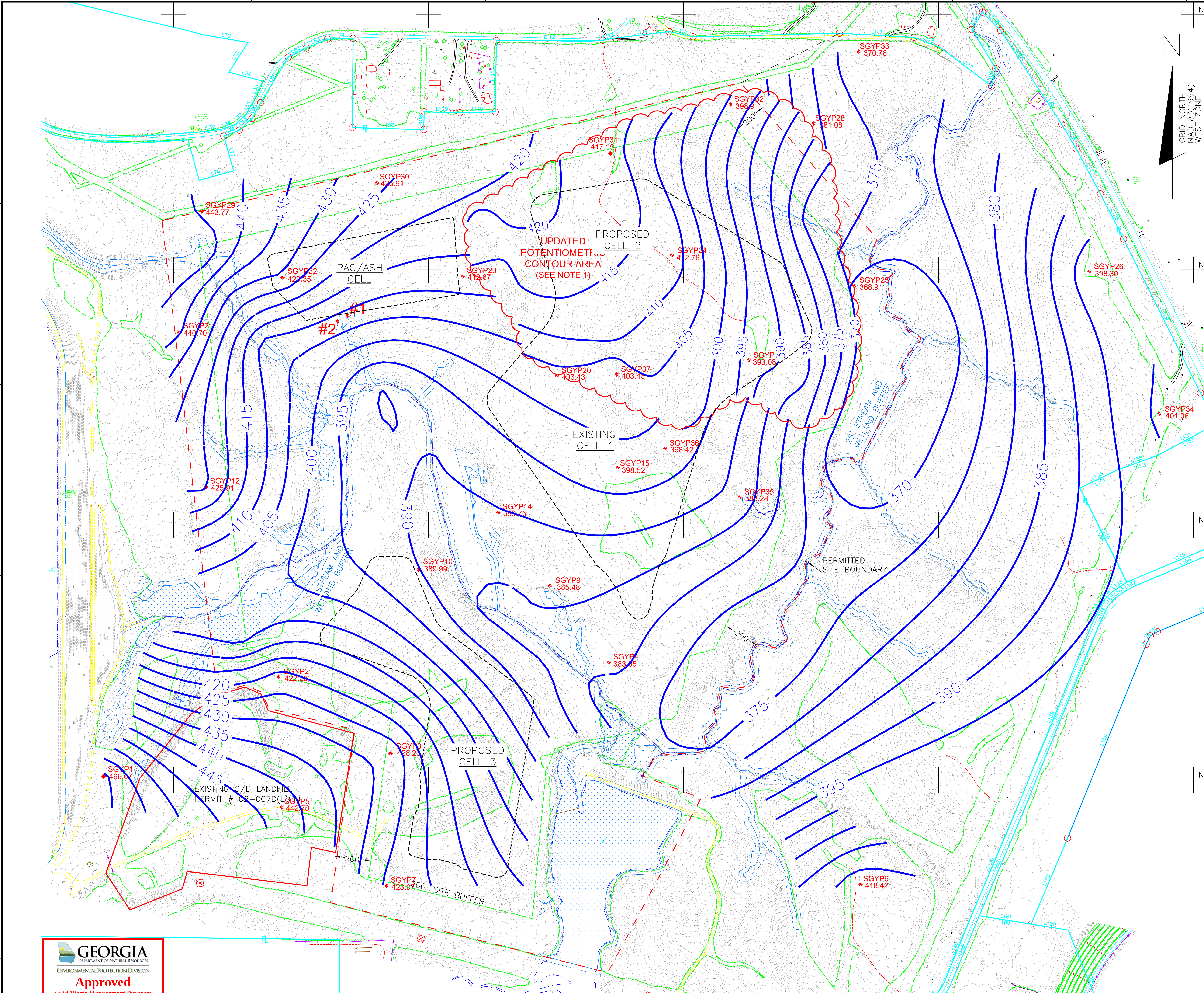
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

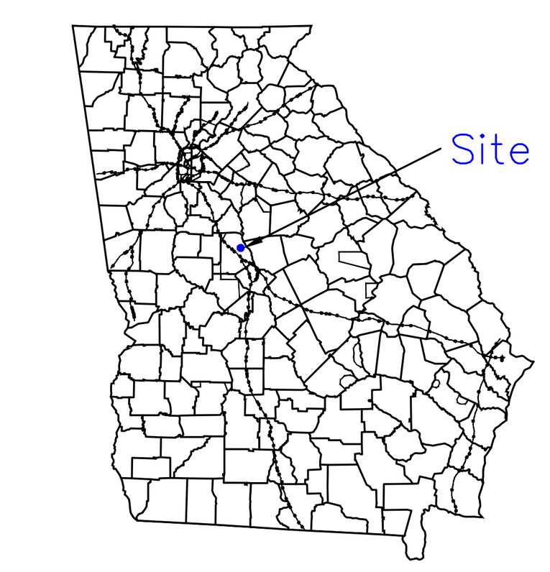
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
POTENTIOMETRIC SURFACE MAP 10/25/2007

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	010505	**H1C11027**	1	FINAL	0

ANSI F: 40x28





MONROE COUNTY GEORGIA

LEGEND:

- LANDFILL BOUNDARY
- PROPERTY LINE
- SITE BOUNDARY
- BUFFER BOUNDARY
- 25' WETLAND & STREAM BUFFER
- LIMITS OF WASTE
- GROUNDWATER CONTOUR
- FLOW ARROW
- STREAM OR CREEK
- EXISTING CONTOURS
- WETLAND
- PIEZOMETER LOCATION
- REVISED GROUNDWATER CONTOUR

NOTE:

1. POTENTIOMETRIC CONTOURS WERE TAKEN FROM A DRAWING TITLED "UPDATED SEASONAL HIGH POTENTIOMETRIC SURFACE ELEVATION CONTOUR MAP – PROPOSED CELL 2" PREPARED BY BUNNELL-LAMMONS ENGINEERING, INC. DATED 07-05-2017.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Beverly Tipton — Digitally signed by Beverly Tipton Date: 2023.03.17 11:13:19 -04'00'

I hereby certify that I am a qualified groundwater scientist, in accordance with the Rules of Solid Waste Management, and 40 CFR Part 258.50(g). A qualified groundwater scientist is a scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields as may be demonstrated by State registration, professional Certifications, or completion of accredited university programs that enable individuals to make sound professional judgements regarding groundwater monitoring, contaminant fate and transport, and corrective action. I hereby certify that the design of this groundwater monitoring system was developed in accordance with the Rules of Solid Waste Management, Chapter 391-3-4.

Signature: AW Alexander

Date: 2022-10-25

ANDREW W. ALEXANDER — GEORGIA REGISTERED PROFESSIONAL GEOLOGIST — No.1485

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GRAPHIC SCALE
(IN FEET)
1 inch = 250 ft.

REVISION	DATE
REVISION 0	DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

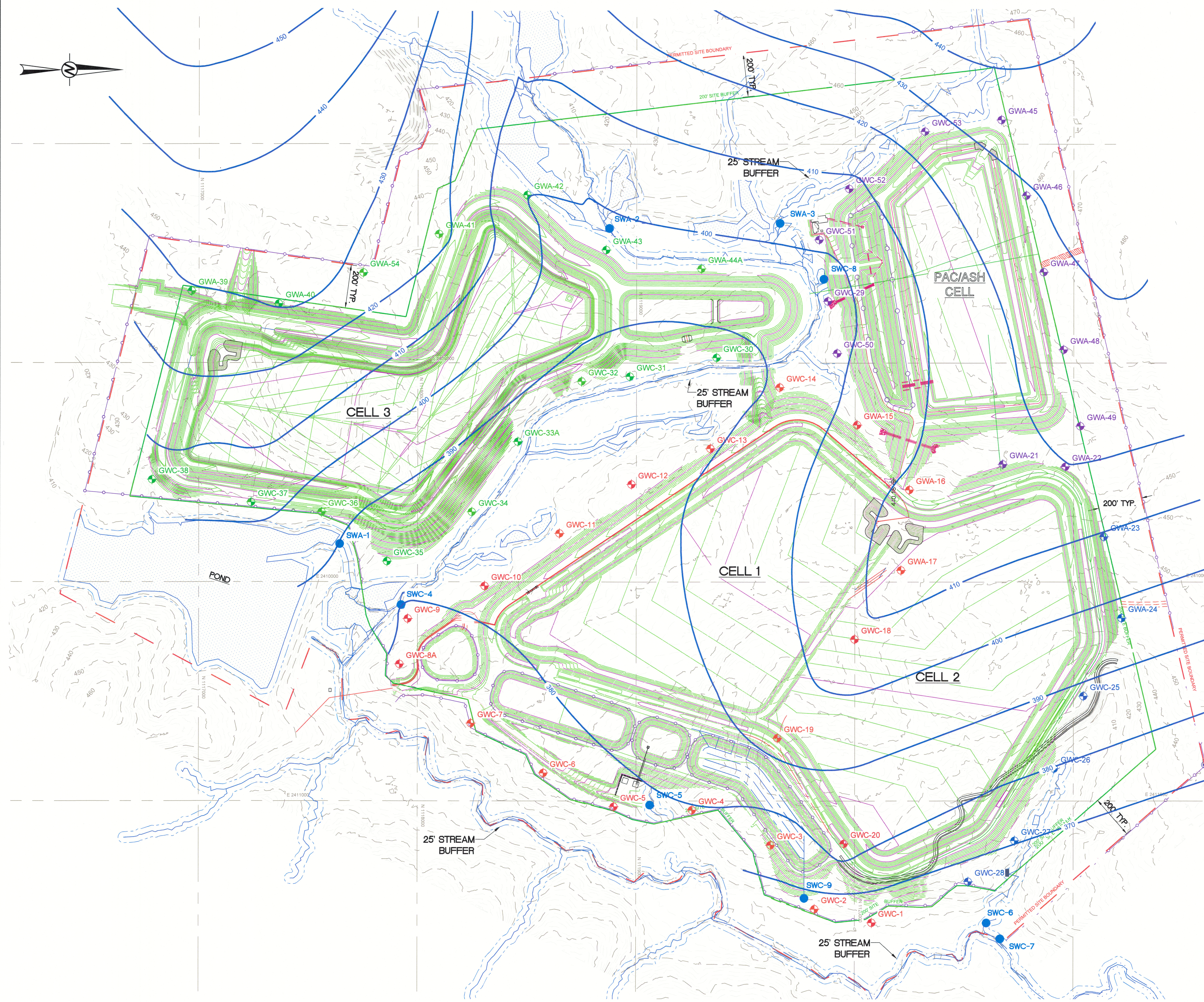
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
COMPOSITE SEASONAL HIGH GROUNDWATER MAP

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1" = 250'	10505	H1C11028	1	FINAL	0

ANSI F: 40x28 Acad2008



LEGEND

- GWA-13 — EXISTING CELL 1 GROUNDWATER MONITORING WELLS
- GWA-13 — FUTURE CELL 2 GROUNDWATER MONITORING WELLS
- GWA-13 — EXISTING CELL 3 GROUNDWATER MONITORING WELLS
- GWA-13 — EXISTING PAC/ASH CELL GROUNDWATER MONITORING WELLS
- SWC-4 — SURFACE WATER MONITORING LOCATION
- 410 — INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT-NAVD 88) AUGUST 2021

NOTE

REFER TO DRAWING H1C11034 FOR MONITORING WELL SIGNAGE REQUIREMENTS.

REFERENCES

1. DRAWING TAKEN FROM SOUTHERN COMPANY SERVICES, INC. CCR LANDFILL PERMIT APPLICATION (BY HHNT, INC.), DATED 6-30-2022. DELIVERED IN .DWG FORMAT, H1C11029-Compliance Network.dwg.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL LOCATIONS PROVIDED BY JORDAN ENGINEERING.

I hereby certify that I am a qualified groundwater scientist, in accordance with the Rules of Solid Waste Management, and 40 CFR Par 258.50(g). A qualified groundwater scientist is a scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields as may be demonstrated by State registration, professional Certifications, or completion of accredited university programs that enable individuals to make sound professional judgements regarding groundwater monitoring, contaminant fate and transport, and corrective action. I hereby certify that the design of this groundwater monitoring system was developed in accordance with the Rules of Solid Waste Management, Chapter 391-3-4.

Signature: Rachel Kirkman

Date: 10-25-22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By Beverly Tipton

SEAL: RACHEL P. KIRKMAN, GEORGIA REGISTERED PROFESSIONAL GEOLOGIST, No. PG001755

REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
1	2022-09-29	ADD POTENTIOMETRIC SURFACE CONTOURS	DLP	DJC		
0	2022-07-05	CCR LANDFILL PERMIT APPLICATION (BY HHNT, INC.) DRAWING NO. H1C11029 PREPARED BY GOLDER ASSOCIATES USA, INC.	DLP	DJC		

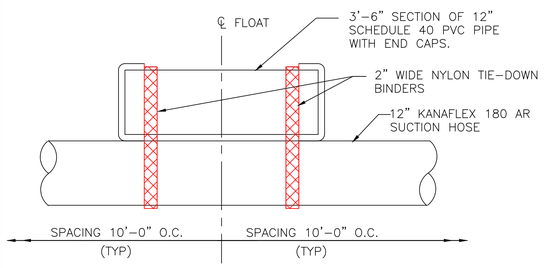
CLIENT
SOUTHERN COMPANY GENERATION ENGINEERING AND CONSTRUCTION SERVICES

CONSULTANT
WSP GOLDER

PROJECT
GEORGIA POWER COMPANY
PLANT SCHERER

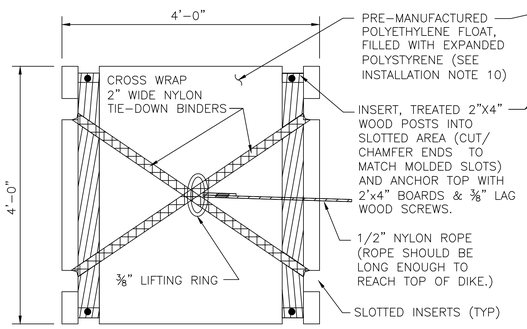
TITLE
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
COMPLIANCE NETWORK SHEET

PROJECT NO. 166235021 CONTROL 1662350I001.dwg REV. 0 1 of 1 FIGURE H1C11029

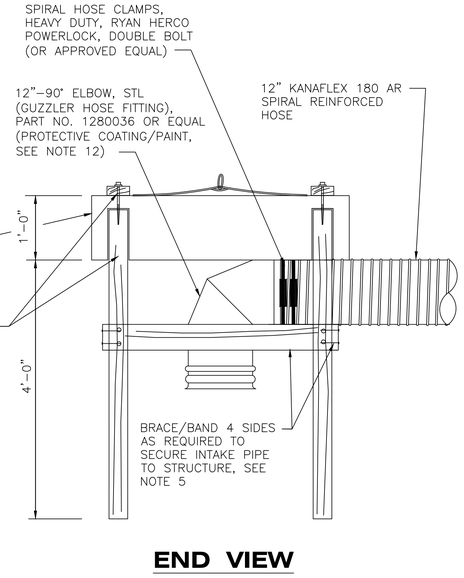


SUCTION HOSE FLOAT

N.T.S.



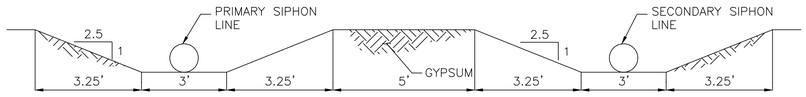
TOP VIEW



END VIEW

POLYETHYLENE 4'X4'X1' FLOTATION INTAKE

N.T.S.



SECTION A-A

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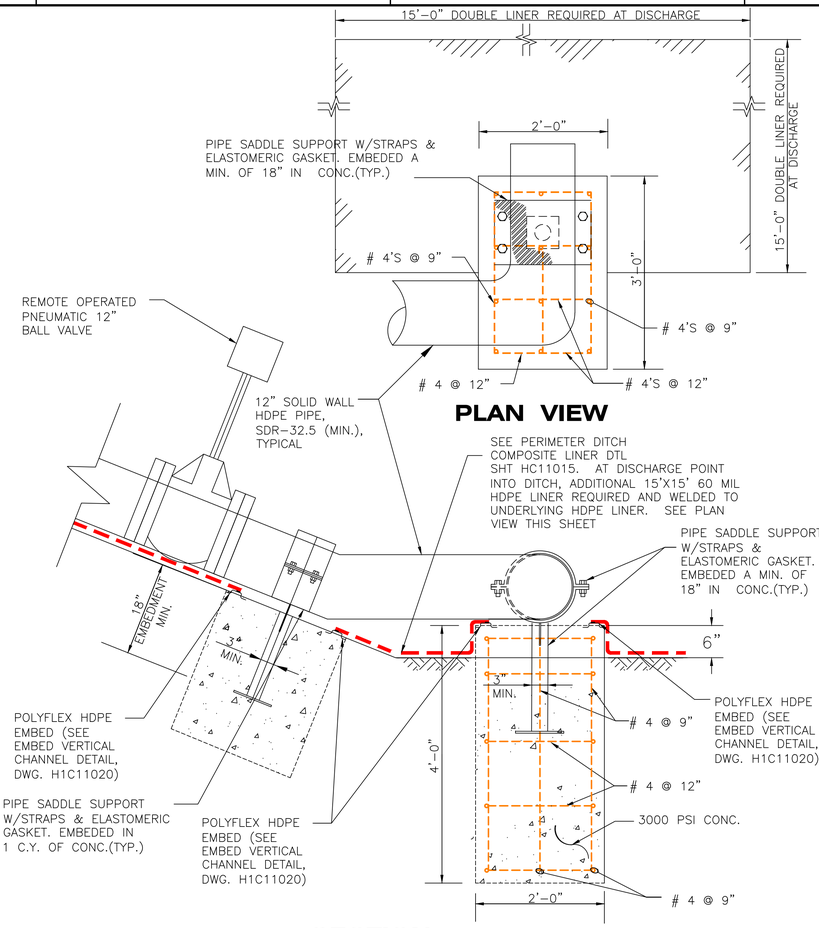
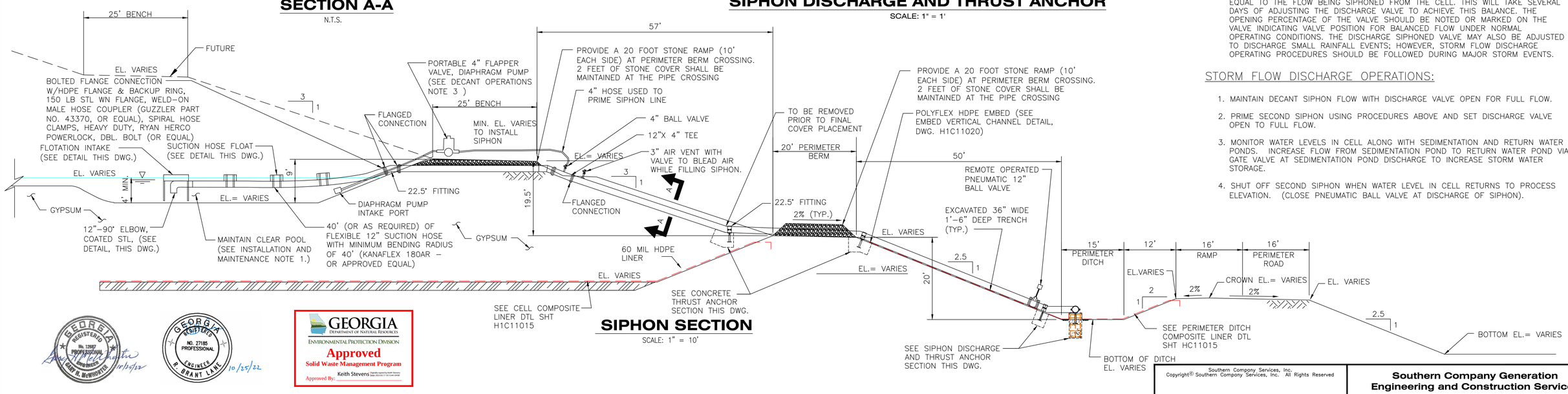


PLAN VIEW

SECTION
SIPHON DISCHARGE AND THRUST ANCHOR

SCALE: 1" = 1'



SIPHON SECTION

SCALE: 1" = 10'

SIPHON INSTALLATION AND OPERATION NOTES:

INSTALLATION AND MAINTENANCE:

1. MAINTAIN CLEAR POOL AREA AT SIPHON INTAKE OF SUFFICIENT DEPTH DURING DECANT OPERATIONS OF CELL. (5' SUGGESTED DEPTH, 3' MINIMUM DEPTH– WILL LOOSE SIPHON AT 2' DEPTH).
2. SECOND SIPHON SHOULD BE CAREFULLY MAINTAINED, TESTED, AND SHOULD BE IN POSITION FOR USE AS REQUIRED DURING STORM EVENTS. THE SECOND SIPHONS INTAKE POINT SHOULD BE POSITIONED 50' OR MORE FROM PRIMARY INTAKE SIPHON.
4. FLAG/PROTECT VALVES AND APPURTENANCES OF SIPHON TO PREVENT DAMAGE FROM TRAFFIC AT TOP OF DIKES.
5. SIPHON MUST BE MAINTAINED AIRTIGHT TO PREVENT LOSS OF SUCTION DURING OPERATIONS.
6. WATER SUPPLY INTO SIPHON MAY BE PUMPED FROM CELL OR PLANT WATER.
7. UPPER SECTION OF SIPHON AT TOP–OF–DIKE SHOULD BE COVERED WITH A MINIMUM OF 2 FEET OF COMPACTED COVER ABOVE PIPE SUPPORTS. UPPER FOOT OF COVER SHOULD BE CRUSHED AGGREGATE BASE MATERIAL.
8. TO REMOVE ANY ACCUMULATED HARDENED GYPSUM FROM INSIDE SURFACE OF PIPE, OPERATOR MAY PERIODICALLY USE HAND–HELD RUBBER HAMMER STRIKING OUTSIDE SURFACE OF MAIN SIPHON LINE. CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO SIPHON VALVES/APPURTENANCES. MOTOR OPERATED EQUIPMENT SHALL NOT BE USED TO STRIKE SIPHON.
9. A PRE MANUFACTURED 4'X4'X12" POLYETHYLENE DOCK FLOAT SECTION, WITH EXPANDED POLYSTYRENE FILL, MAY BE ACQUIRED AT WWW.PROTATCH.COM OR EQUAL SUPPLIER.
10. PRIMARY AND SECONDARY SIPHONS ARE TO RUN APPROXIMATELY 5 FEET APART AND PARALLEL WITH EACH OTHER UP TO EACH LIFT TO FINAL LIFT CONSTRUCTION. WHEN EACH LIFT IS CONSTRUCTED, A TEMPORARY EXTENSION OF THE SECONDARY SIPHON IS TO BE RUN AT A MINIMUM DISTANCE OF 75 FEET FROM THE PRIMARY SIPHON TO FACILITATE CONSTRUCTION OF THE NEXT BERM LIFT. ONCE THE BERM IS COMPLETE, THE SIPHONS CAN CONTINUE TO BE PLACED PARALLEL WITH EACH OTHER UP THE SLOPE TO THE NEXT LEVEL.

DECANT OPERATIONS:

1. INSURE POOL ELEVATION OF GYPSUM CELL IS OF SUFFICIENT DEPTH TO ALLOW DRAWDOWN.
2. CLOSE GATE VALVE AT PIPE DISCHARGE END. VALVE SHOULD BE A PNEUMATICALLY OPERATED BALL VALVE WHICH CAN BE OPERATED FROM THE TOP OF DIKE AREA TO FACILITATE SEQUENCE OF OPERATION/FILLING OF SIPHON.
3. OPEN AIR VENT VALVE AND OPEN WATER SUPPLY VALVE AT TOP OF SIPHON/DIKE AND FILL DISCHARGE PIPE FROM DOWNSTREAM BALL VALVE UNTIL WATER DISCHARGES FROM AIR VENT. (A 4" FLAPPER VALVE, DIAPHRAGM PUMP WITH A 25' VERTICAL LIFT AND A FLOW RATE OF 160 GALLONS PER MINUTE WILL FILL A 136' SECTION OF 12" PIPE IN 5 MINUTES.)
4. TURN OFF WATER SUPPLY WHEN DOWNSTREAM PIPE IS FILLED AND CLOSE AIR VENT VALVE.
5. OPEN DISCHARGE VALVE (PNEUMATIC BALL VALVE) TO START SIPHON.
6. REGULATE FLOW FROM CELL BY DISCHARGE VALVE. FOR CONTINUOUS OPERATION, IT IS NECESSARY FOR THE FLOWS BEING DISCHARGED INTO THE CELL TO BE EQUAL TO THE FLOW BEING SIPHONED FROM THE CELL. THIS WILL TAKE SEVERAL DAYS OF ADJUSTING THE DISCHARGE VALVE TO ACHIEVE THIS BALANCE. THE OPENING PERCENTAGE OF THE VALVE SHOULD BE NOTED OR MARKED ON THE VALVE INDICATING VALVE POSITION FOR BALANCED FLOW UNDER NORMAL OPERATING CONDITIONS. THE DISCHARGE SIPHONED VALVE MAY ALSO BE ADJUSTED TO DISCHARGE SMALL RAINFALL EVENTS; HOWEVER, STORM FLOW DISCHARGE OPERATING PROCEDURES SHOULD BE FOLLOWED DURING MAJOR STORM EVENTS.

STORM FLOW DISCHARGE OPERATIONS:

1. MAINTAIN DECANT SIPHON FLOW WITH DISCHARGE VALVE OPEN FOR FULL FLOW.
2. PRIME SECOND SIPHON USING PROCEDURES ABOVE AND SET DISCHARGE VALVE OPEN TO FULL FLOW.
3. MONITOR WATER LEVELS IN CELL ALONG WITH SEDIMENTATION AND RETURN WATER PONDS. INCREASE FLOW FROM SEDIMENTATION POND TO RETURN WATER POND VIA GATE VALVE AT SEDIMENTATION POND DISCHARGE TO INCREASE STORM WATER STORAGE.
4. SHUT OFF SECOND SIPHON WHEN WATER LEVEL IN CELL RETURNS TO PROCESS ELEVATION. (CLOSE PNEUMATIC BALL VALVE AT DISCHARGE OF SIPHON).

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER MARY H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER P. GRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

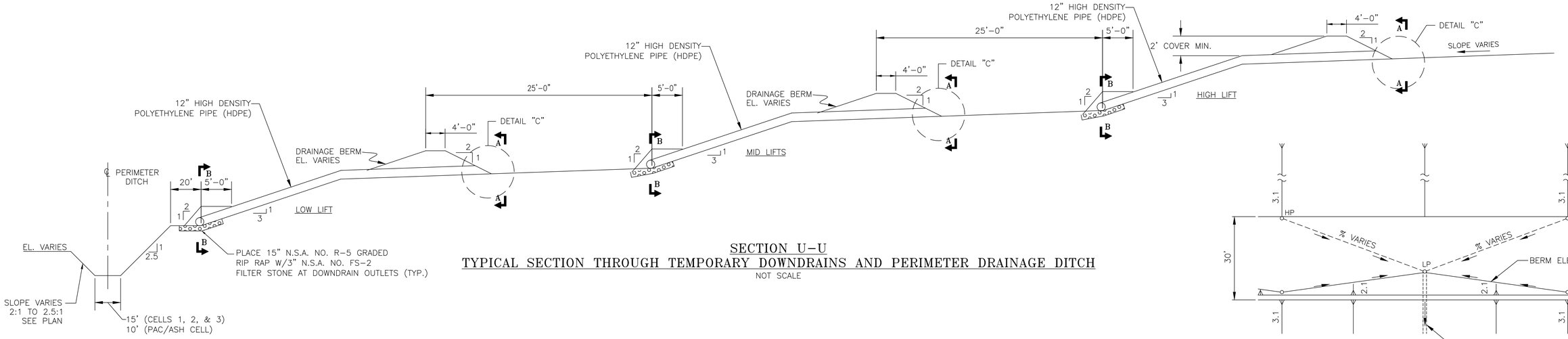
PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL 1 THROUGH CELL 3
SIPHON SECTIONS AND DETAILS

REVISION	DATE
0	10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

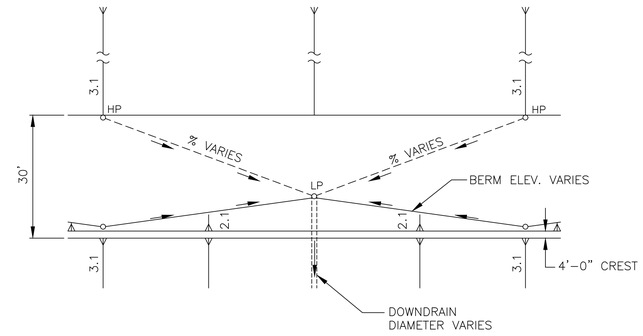
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11031	1	FINAL	0

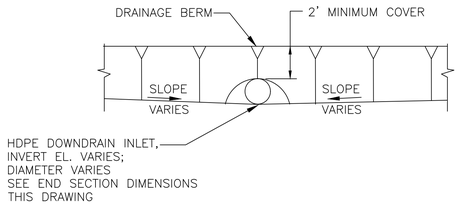
ANSI F: 40x28 Acad2004



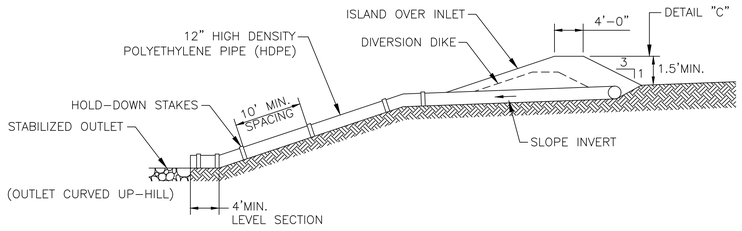
SECTION U-U
TYPICAL SECTION THROUGH TEMPORARY DOWNDRAINS AND PERIMETER DRAINAGE DITCH
NOT SCALE

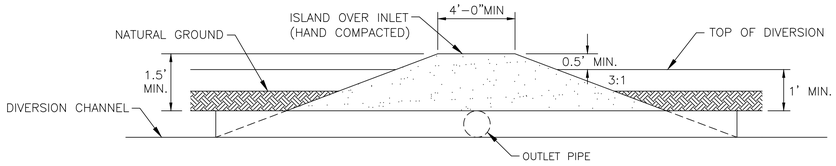


TYPICAL BERM DRAIN PLAN
NOT TO SCALE
TYPICAL PLAN ALONG 30' BERM

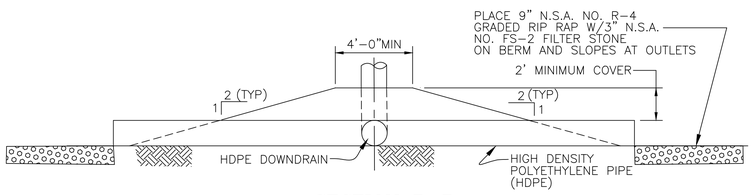


SECTION A-A
NOT TO SCALE

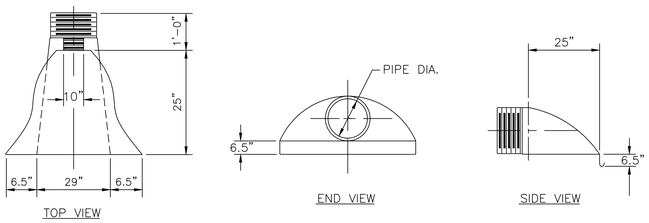




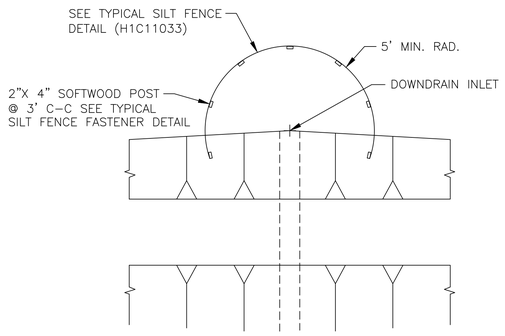
TEMPORARY DOWNDRAIN AND INLET DETAILS
NOT TO SCALE
(FOR EXCAVATION PHASE)



SECTION B-B
NOT TO SCALE



END SECTION DIMENSIONS
NOT TO SCALE



DETAIL "C" TYPICAL DOWNDRAIN INLET PROTECTION
NOT TO SCALE

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12987 PROFESSIONAL ENGINEER GARY W. McWHORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER P. GRANT LANE 10/25/22

NOTES:

1. PLACE SLOPE DRAINS ON UNDISTURBED SOIL OR WELL-COMPACTED FILL AT LOCATIONS AND ELEVATIONS SHOWN ON THE PLAN.
2. SLIGHTLY SLOPE THE SECTION OF PIPE UNDER THE DIKE TOWARDS ITS OUTLET.
3. HAND TAMP THE SOIL UNDER AND AROUND THE ENTRANCE SECTION IN LIFTS NOT TO EXCEED 6 INCHES.
4. ENSURE THAT FILL OVER THE DRAIN AT THE TOP OF THE SLOPE HAS MINIMUM DIMENSIONS SHOWN.
5. ENSURE THAT ALL SLOPE DRAIN CONNECTIONS ARE WATER-TIGHT.
6. ENSURE THAT ALL FILL MATERIAL IS WELL COMPACTED. SECURELY FASTEN THE EXPOSED SECTION OF THE DRAIN WITH GROMMETS OR STAKES SPACED NO MORE THAN 10 FEET APART.
7. PLACE THE DRAIN SLIGHTLY DIAGONALLY ACROSS THE SLOPE, EXTENDING THE DRAIN BEYOND THE TOE OF THE SLOPE. CURVE THE OUTLET UPHILL AND ADEQUATELY PROTECT THE OUTLET FROM EROSION.
8. DIRECT ALL FLOWS INTO A SEDIMENT TRAP OR SEDIMENT BASIN.
9. MAKE THE SETTLED, COMPACTED DIKE RIDGE NO LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE AT EVERY POINT.
10. IMMEDIATELY STABILIZE ALL DISTURBED AREAS FOLLOWING CONSTRUCTION.
11. INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS.
12. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED AND THE PERMANENT STORMWATER DISPOSAL SYSTEM IS FULLY FUNCTIONAL, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.
13. FOR A COMPLETE DRAWING LIST SEE SHEET H1C11000.
14. SEE SHEET H1C1004 FOR GENERAL NOTES AND REFERENCES.

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3 & PAC/ASH CELL
EROSION CONTROL SECTIONS & DETAILS

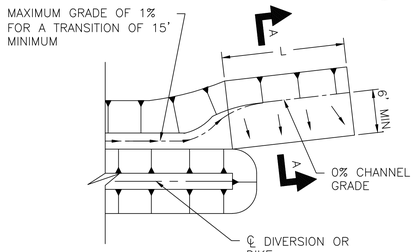
REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

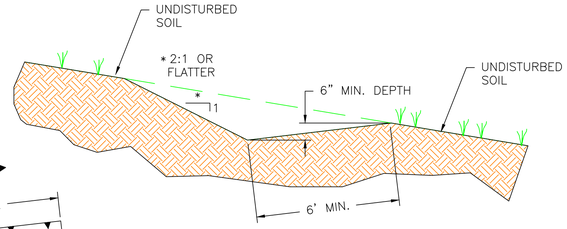
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11032	1	FINAL	0

ANSI F: 40x28 Acad2004

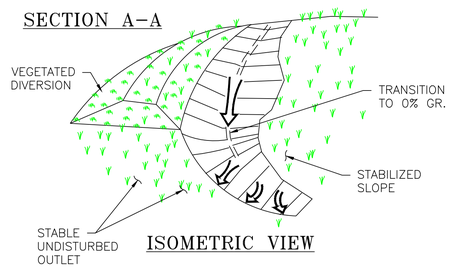
DESIGNED Q10/24 (CFS)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50



PLAN



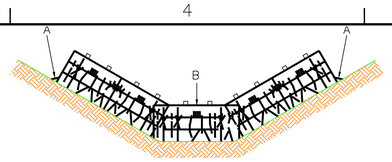
SECTION A–A



ISOMETRIC VIEW

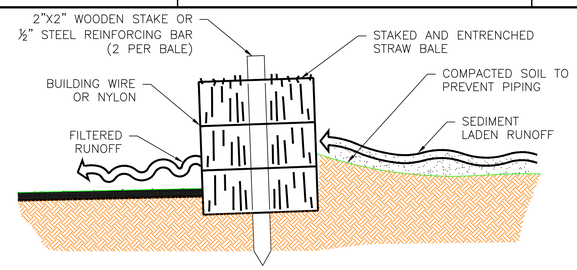
NOTES:
1. GRADE OF CHANNEL FOR LAST 15 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
2. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL.

TYPICAL LEVEL SPREADER DETAIL (Lv)
N.T.S.



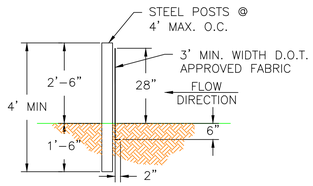
NOTES:
1. POINTS "A" SHOULD BE HIGHER THAN POINT "B".
2. EMBED HAY BALES A MINIMUM OF 4 INCHES.
3. HAY BALES ARE TO BE BOUND WITH WIRE OR NYLON.
4. EACH BALE SHALL BE CONSTRAINED BY TWO 2"x 2" WOODEN STAKES OR TWO 1/2" ø STEEL REINFORCING BARS EMBEDDED 2 FT. IN THE GROUND.
5. HAY BALE CHECK DAMS SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED.
6. SEDIMENT BEHIND CHECK DAM SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE–HALF THE ORIGINAL DEPTH OF CHECK DAM OR BEFORE.

PLACEMENT OF HAY BALE BARRIER IN DRAINAGE WAY (Sd1–Hb)
N.T.S.



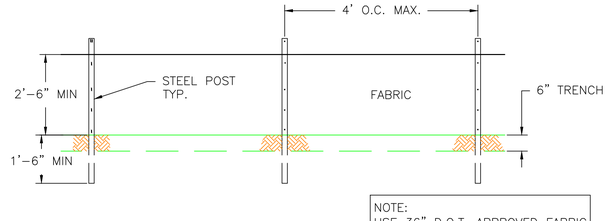
NOTE: EMBED HAY BALE A MINIMUM OF 4 INCHES

CROSS SECTION OF INSTALLED HAY BALE (Sd1–Hb)
N.T.S.



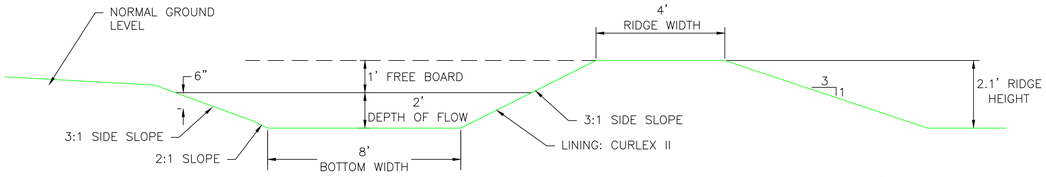
NOTE:
THE SILT FENCE SHALL BE INSPECTED PERIODICALLY AND PROMPTLY REPAIRED OR REPLACED AS REQUIRED. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE FABRIC

TYPICAL SILT FENCE DETAIL TYPE "C" (Sd1–C)
SCALE: 1"=2'



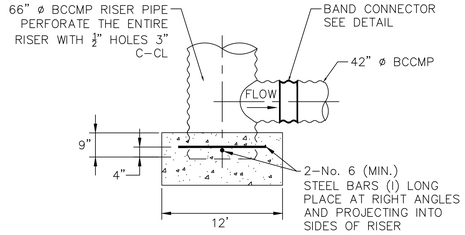
NOTE:
USE 36" D.O.T. APPROVED FABRIC
USE STEEL POLES

TYPICAL SILT FENCE FRONT VIEW (Sd1–C)
SCALE: 1"=2'

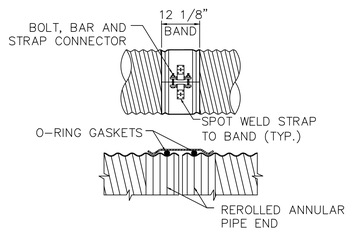


NOTES:
1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. ALL FILLS SHALL BE MACHINE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
5. DIVERSION CHANNEL SHALL BE STABILIZED TO PREVENT MIGRATION OF SOIL FROM DITCH AND/OR BERM.

DIVERSION DETAIL (EXCAVATION PHASE) (Di)
SCALE: 1"=2'



CONCRETE RISER BASE DETAIL
NOT TO SCALE

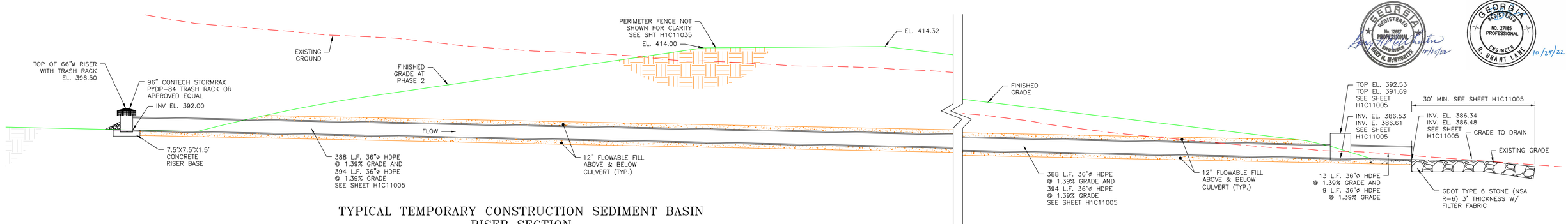


BAND CONNECTOR DETAIL
NOT TO SCALE

TOP VIEW

TYPICAL SILT FENCE TYPE C– OVERLAP DETAIL (Sd1–C)
SCALE: 1"=2'

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Approved By: _____



TYPICAL TEMPORARY CONSTRUCTION SEDIMENT BASIN RISER SECTION
NOT TO SCALE
(H1C11005)

GEORGIA REGISTERED No. 12007 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER P. GRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

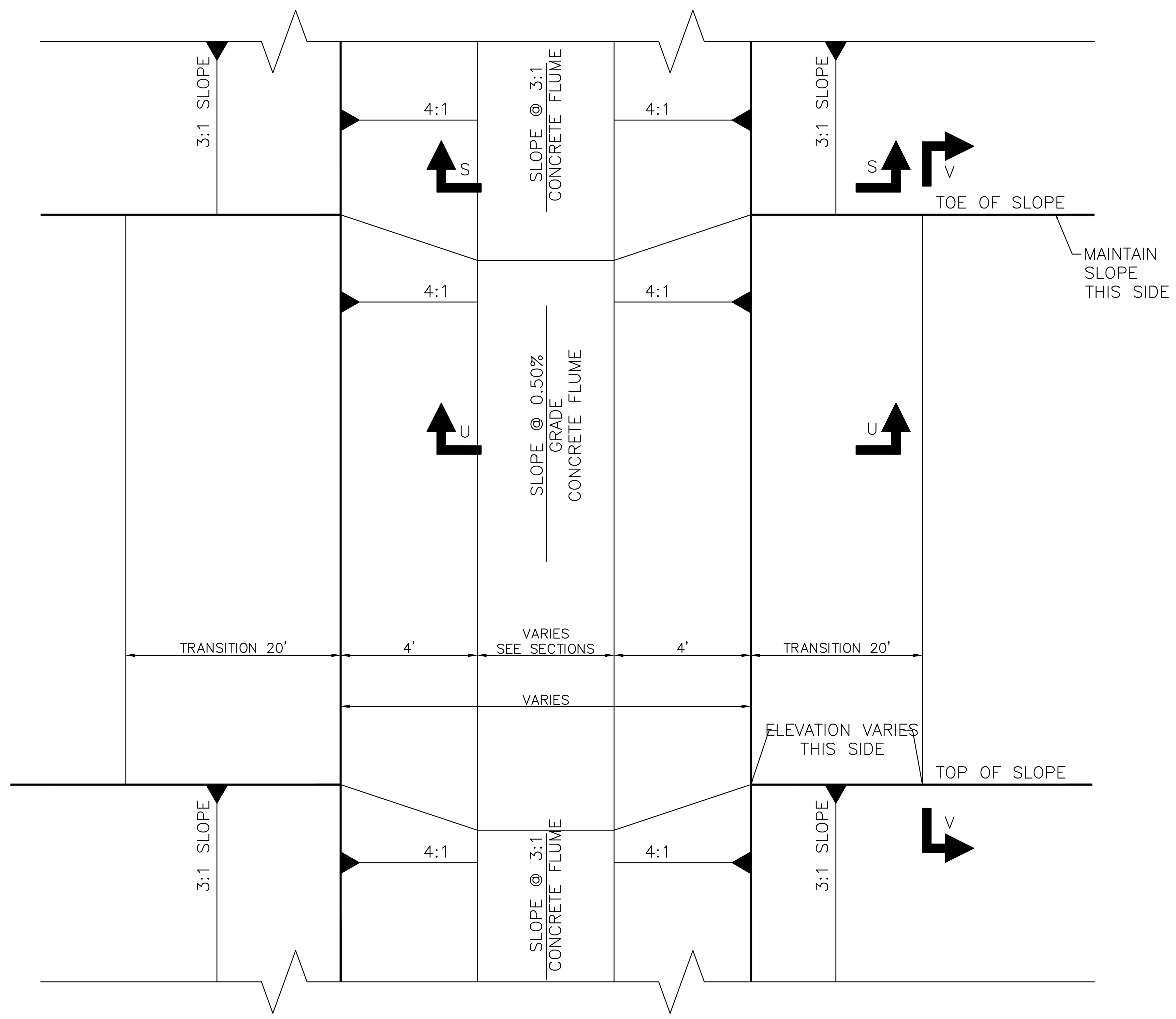
PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL CO. 3 & PAC/ASH CELL
EROSION CONTROL SECTIONS & DETAILS

REVISION	DATE
0	10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

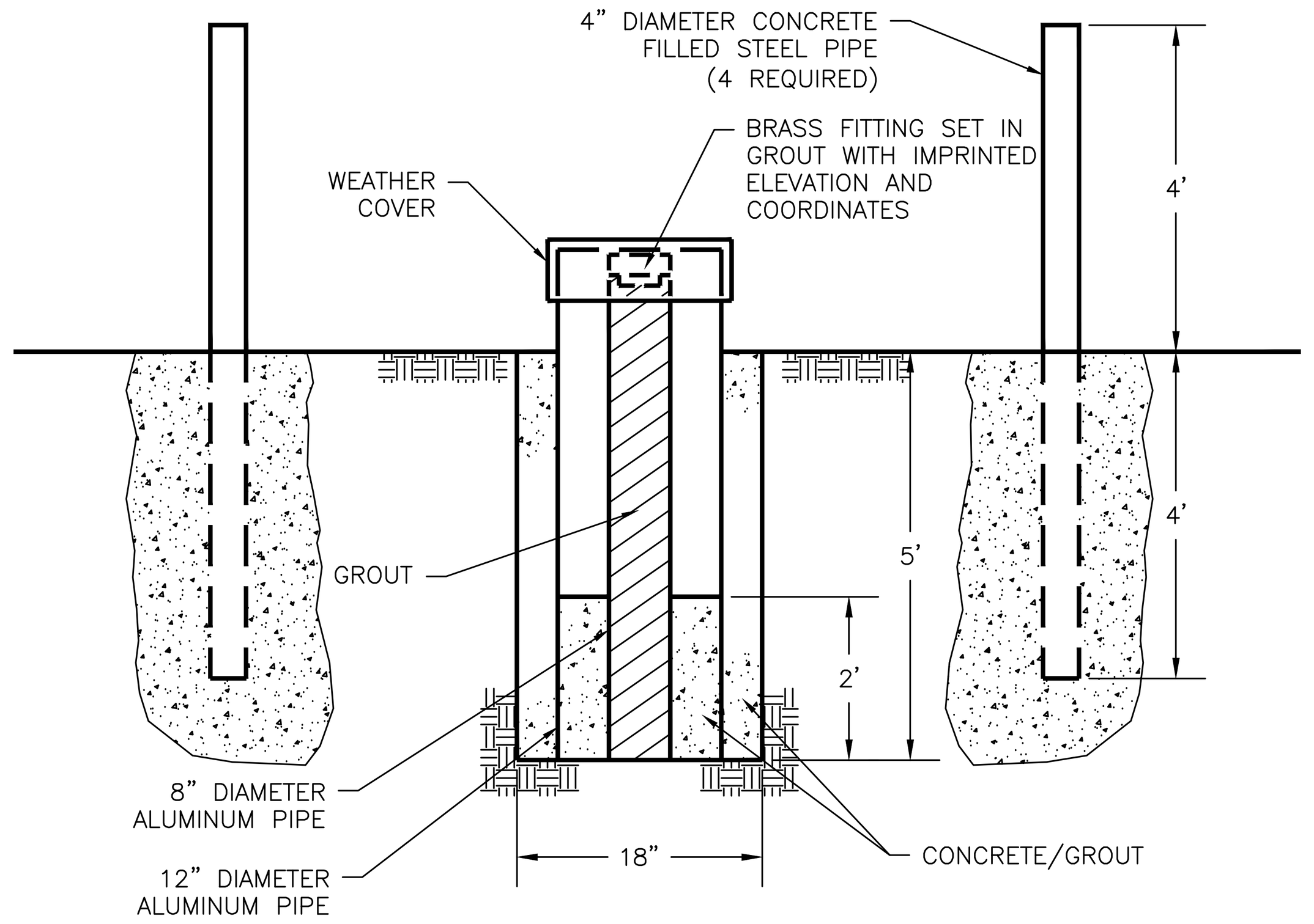
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'T'D	REV
AS NOTED	010505	H1C11033	1	FINAL	0

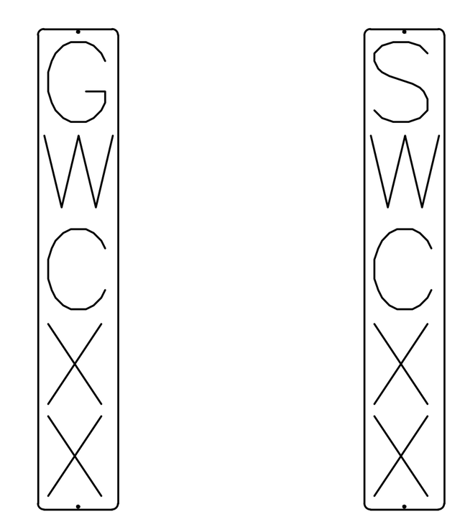
ANSI F: 40x28 Acad2004



BERM TRANSITION AT FLUME DETAIL
PLAN VIEW
N.T.S.



SURVEY CONTROL MONUMENT
NOT TO SCALE



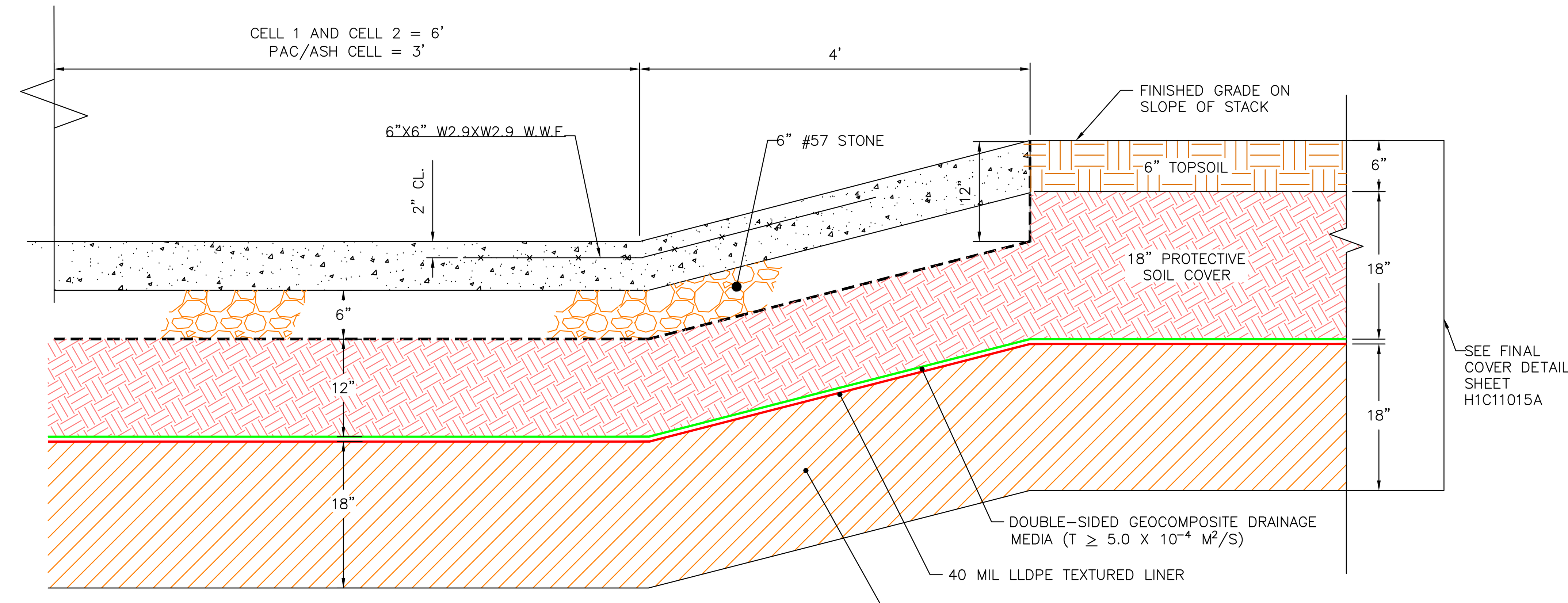
GROUND WATER & SURFACE WATER MONITORING POINT SIGNAGE
WHITE BACKGROUND WITH RED LETTERING 4" X 24"

BUFFER ZONE	PLANT SCHERER COAL COMBUSTION RESIDUALS DISPOSAL FACILITY
THE BUFFER ZONE SHALL NOT BE DISTURBED EXCEPT FOR DIRECT SITE INGRESS/EGRESS AND FOR GROUNDWATER MONITORING WELL INSTALLATION	THIS DISPOSAL FACILITY WILL ACCEPT ONLY COAL COMBUSTION RESIDUALS. ANY OTHER WASTES ARE PROHIBITED.

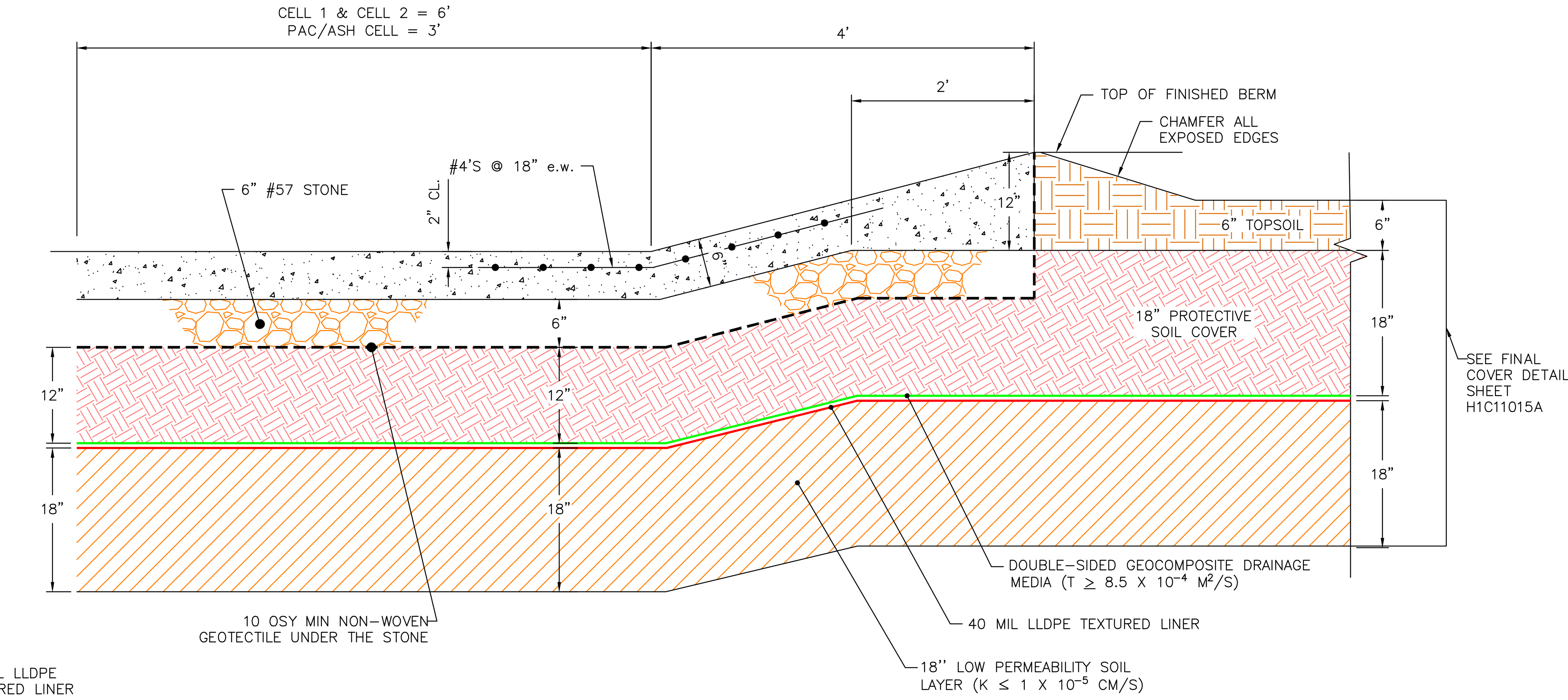
BUFFER ZONE SIGNAGE
YELLOW BACKGROUND WITH BLACK LETTERING 18" X 24"

ENTRANCE SIGNAGE
WHITE BACKGROUND WITH BLACK LETTERING 4' X 6'

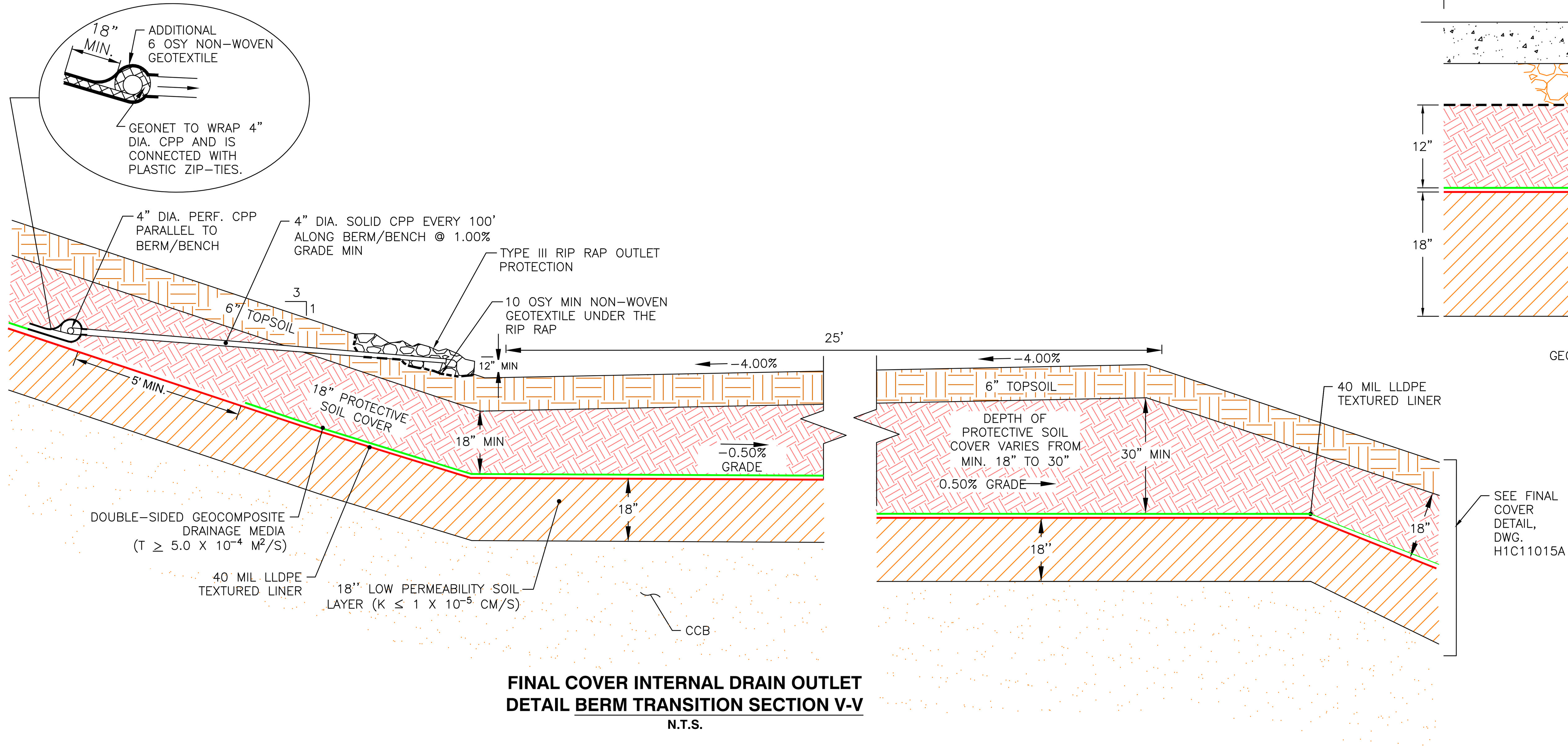
SIGNAGE
NOT TO SCALE



CONCRETE FLUME SECTION S-S
3:1 SIDE SLOPE AREA
N.T.S.



CONCRETE FLUME SECTION U-U AT CENTERLINE OF BERM
N.T.S.



FINAL COVER INTERNAL DRAIN OUTLET DETAIL BERM TRANSITION SECTION V-V
N.T.S.

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1, CELL NO. 2 & PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS

REVISION	DATE
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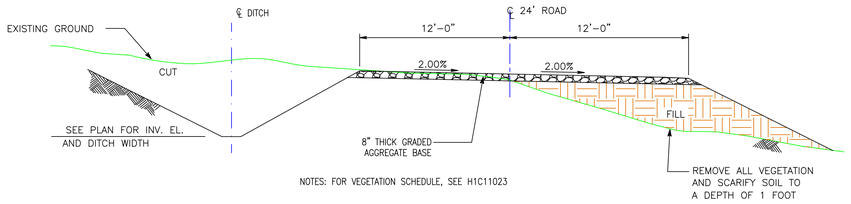
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11034	1	FINAL	0

ANSI F: 40x28 Acad2004

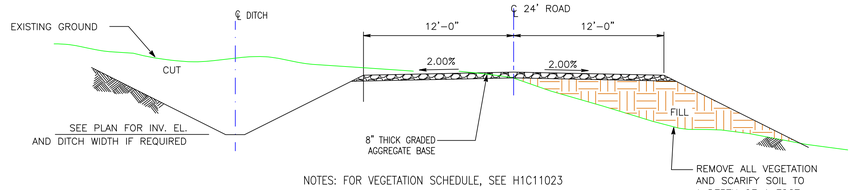


NOTES: FOR VEGETATION SCHEDULE, SEE H1C11023

PUMP ACCESS ROAD
TYPICAL SECTION

NOT TO SCALE

(H1C11005, H1C11006, H1C11007, & H1C11008)

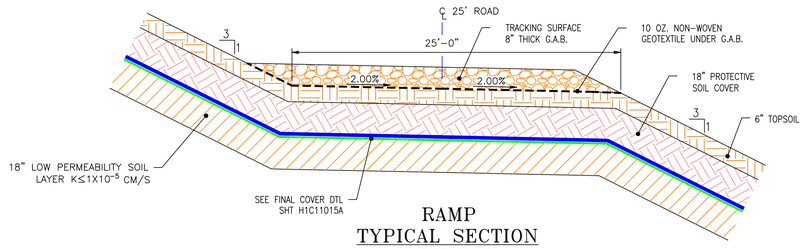


NOTES: FOR VEGETATION SCHEDULE, SEE H1C11023

ACCESS ROAD
TYPICAL SECTION

NOT TO SCALE

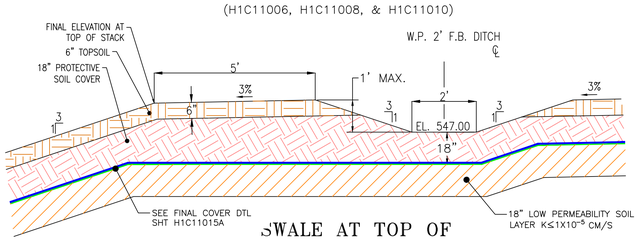
(H1C11005, H1C11006, H1C11007, & H1C11008)



RAMP
TYPICAL SECTION

NOT TO SCALE

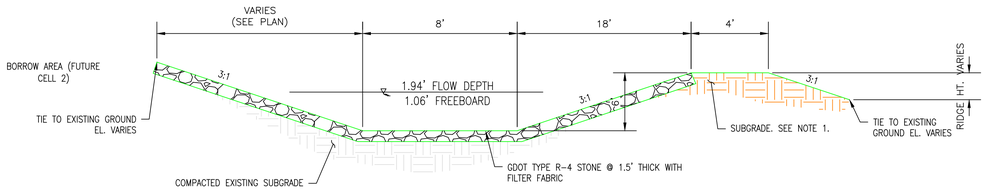
(H1C11006, H1C11008, & H1C11010)



SWALE AT TOP OF STACK
DETAIL

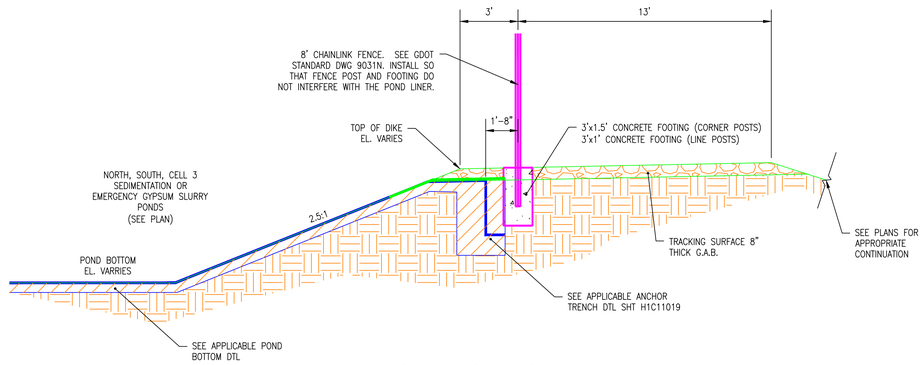
NOT TO SCALE

(H1C11006, H1C11008, & H1C11010)



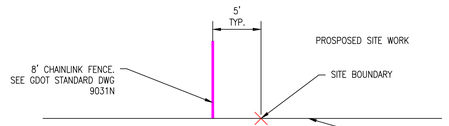
CELL 2 TEMPORARY PERIMETER DITCH
TYPICAL SECTION–RIPRAP LINING

N.T.S.



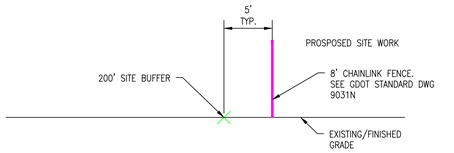
POND PERIMETER FENCE
TYPICAL SECTION

N.T.S.



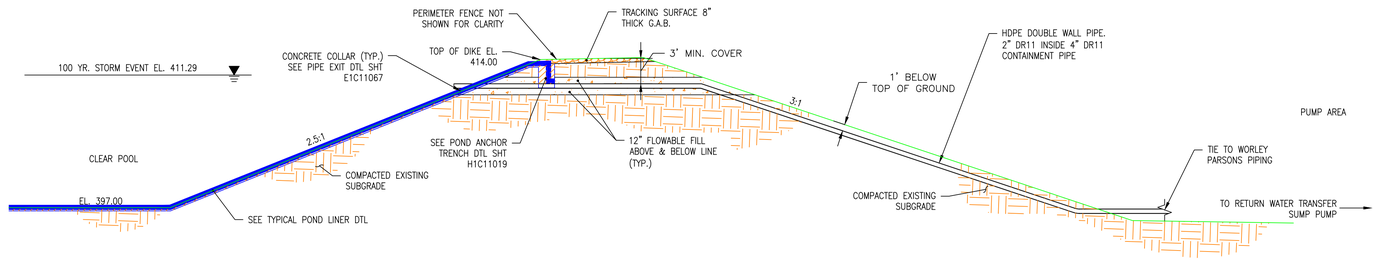
TYPICAL FENCE SECTION A

N.T.S.



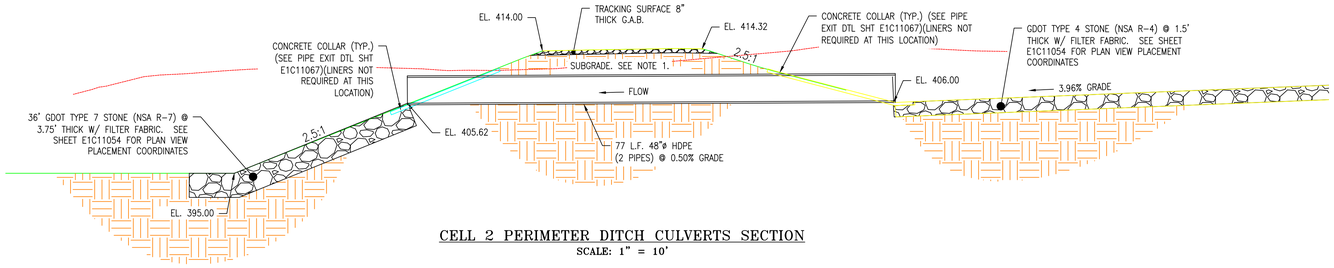
TYPICAL FENCE SECTION B

N.T.S.



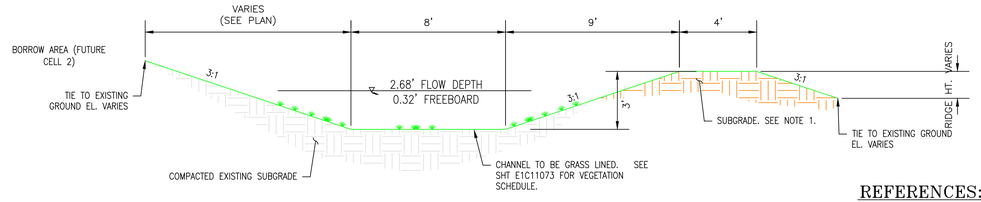
RETURN WATER PIPE FROM TRANSFER SUMP PUMP
SECTION AT CLEAR POOL

SCALE: 1" = 10'



CELL 2 PERIMETER DITCH CULVERTS SECTION

SCALE: 1" = 10'



CELL 2 TEMPORARY PERIMETER DITCH
TYPICAL SECTION–VEGETATED LINING

N.T.S.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11005 CELL NO. 1 SITE DEVELOPMENT BASE GRADING PLAN
H1C11006 CELL NO. 1 FINAL STACKING PLAN
H1C11007 CELL NO. 2 SITE DEVELOPMENT BASE GRADING PLAN
H1C11008 CELL NO. 1 AND CELL NO. 2 FINAL STACKING PLAN
H1C11014 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11016 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11017 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 13067 PROFESSIONAL Engineer OMAR N. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GENERAL NOTES:

1.THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
MISCELLANOUS SECTIONS AND DETAILS

REVISION	DATE
0	10-24-2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
N.T.S.	010505	H1C11035	1	FINAL	0

ANSI F: 40x28 Acad2004

CELL NO. 1 AND CELL NO. 2

FLUME A			
POINT NO.	NORTHING	EASTING	ELEVATION
A1	1119483.584	2410083.960	548.00
A2	1119481.397	2410070.000	548.00
A3	1119425.174	2410093.193	526.98
A4	1119422.988	2410079.365	526.98
A5	1119241.794	2410122.180	506.25
A6	1119239.658	2410108.344	506.25
A7	1119059.305	2410151.027	487.21
A8	1119057.159	2410137.192	487.21
A9	1118876.817	2410179.873	466.79
A10	1118874.659	2410166.040	466.79
A11	1118694.326	2410208.720	446.42
A12	1118692.155	2410194.889	446.42
A13	1118447.121	2410247.796	430.80
A14	1118446.490	2410233.722	430.80
A15	1118379.012	2410251.475	410.94
A16	1118380.024	2410258.402	410.94

FLUME B			
POINT NO.	NORTHING	EASTING	ELEVATION
B1	1119719.827	2409888.115	548.00
B2	1119733.820	2409888.546	548.00
B3	1119721.445	2409829.154	526.98
B4	1119735.439	2409829.551	526.98
B5	1119724.318	2409724.470	506.41
B6	1119738.313	2409724.821	506.41
B7	1119727.854	2409595.593	486.61
B8	1119741.850	2409595.943	486.61
B9	1119730.735	2409490.592	466.46
B10	1119744.731	2409490.957	466.46
B11	1119733.617	2409385.575	446.31
B12	1119747.612	2409385.953	446.31
B13	1119734.759	2409343.967	444.66
B14	1119748.735	2409345.036	444.66
B15	1119736.283	2409288.418	429.96
B16	1119750.269	2409289.117	429.96

FLUME C			
POINT NO.	NORTHING	EASTING	ELEVATION
C1	1120138.063	2410114.761	548.00
C2	1120151.616	2410118.305	548.00
C3	1120154.791	2410058.677	526.91
C4	1120168.369	2410062.133	526.91
C5	1120178.667	2409978.625	506.72
C6	1120192.283	2409981.955	506.72
C7	1120202.543	2409898.573	486.61
C8	1120216.196	2409901.778	486.61
C9	1120230.819	2409803.769	466.54
C10	1120244.258	2409807.692	466.54
C11	1120252.062	1120252.062	451.70
C12	1120265.414	2409736.758	451.70
C13	1120267.902	2409679.436	437.13
C14	1120281.239	2409683.700	437.13

FLUME D			
POINT NO.	NORTHING	EASTING	ELEVATION
D1	1120564.443	2410097.764	548.00
D2	1120576.246	2410105.295	548.00
D3	1120596.201	2410047.991	526.91
D4	1120608.069	2410055.569	526.91
D5	1120665.486	2409939.249	506.78
D6	1120677.425	2409946.867	506.78
D7	1120734.913	1120734.913	486.38
D8	1120746.782	2409838.164	486.38
D9	1120804.198	2409721.844	466.54
D10	1120816.138	2409729.462	466.54
D11	1120869.104	2409620.268	448.74
D12	1120881.116	2409627.469	448.74
D13	1120912.156	2409552.792	432.34
D14	1120924.956	2409558.759	432.34

FLUME E			
POINT NO.	NORTHING	EASTING	ELEVATION
E1	1120498.853	2410310.815	548.00
E2	1120491.170	2410322.519	548.00
E3	1120547.757	2410342.918	526.90
E4	1120540.075	2410354.622	526.90
E5	1120617.561	2410388.740	506.48
E6	1120609.878	2410400.444	506.48
E7	1120687.365	2410434.562	486.19
E8	1120679.682	2410446.266	486.19
E9	1120757.169	2410480.384	466.96
E10	1120749.486	2410492.088	466.96
E11	1120826.973	2410526.206	446.84
E12	1120819.290	2410537.910	446.84
E13	1120867.052	2410552.516	440.35
E14	1120859.657	2410564.408	440.35
E15	1120919.047	2410586.647	423.07
E16	1120911.657	2410598.544	423.07

FLUME F			
POINT NO.	NORTHING	EASTING	ELEVATION
F1	1120259.903	2410623.637	548.00
F2	1120245.912	2410623.144	548.00
F3	1120257.820	2410681.460	526.90
F4	1120243.829	2410680.953	526.90
F5	1120238.305	2410852.247	506.48
F6	1120224.791	2410848.590	506.48
F7	1120210.397	2410955.391	486.19
F8	1120196.884	2410951.734	486.19
F9	1120182.490	2411058.535	466.39
F10	1120168.976	2411054.877	466.39
F11	1120154.589	2411161.654	446.28
F12	1120141.077	2411157.989	446.28
F13	1120129.490	2411254.421	431.21
F14	1120115.825	2411251.319	431.21
F15	1120112.144	2411318.528	412.31
F16	1120098.495	2411315.369	412.31

FLUME G			
POINT NO.	NORTHING	EASTING	ELEVATION
G1	1119951.800	2410299.910	548.00
G2	1119940.548	2410291.580	548.00
G3	1119917.339	2410346.704	526.15
G4	1119906.061	2410338.410	526.15
G5	1119867.946	2410413.777	506.29
G6	1119856.547	2410405.646	506.29
G7	1119806.831	2410496.768	486.42
G8	1119795.507	2410488.535	486.42
G9	1119757.316	2410564.005	466.39
G10	1119745.985	2410555.782	466.39
G11	1119707.801	2410631.242	446.28
G12	1119696.367	2410622.962	446.28
G13	1119670.426	2410681.995	435.23
G14	1119659.152	2410673.695	435.23
G15	1119637.929	2410726.124	420.78
G16	1119626.593	2410717.908	420.78

FLUME H			
POINT NO.	NORTHING	EASTING	ELEVATION
H1	1119323.397	2410281.979	486.78
H2	1119312.930	2410278.597	486.78
H3	1119298.091	2410360.290	466.78
H4	1119287.624	2410356.908	466.78
H5	1119266.549	2410457.899	446.44
H6	1119256.082	2410454.516	446.44
H7	1119244.770	2410525.294	432.72
H8	1119234.251	2410522.075	432.72
H9	1119226.879	2410580.661	417.04
H10	1119216.285	2410577.672	417.04

FLUME J			
POINT NO.	NORTHING	EASTING	ELEVATION
J1	1119277.333	2409925.156	487.07
J2	1119286.253	2409918.717	487.07
J3	1119229.161	2409858.427	466.46
J4	1119227.027	2409836.679	466.46
J5	1119169.118	2409775.257	446.31
J6	1119178.037	2409768.819	446.31
J7	1119137.724	2409731.771	438.45
J8	1119146.642	2409725.332	438.45
J9	1119102.072	2409682.387	421.83
J10	1119111.204	2409676.244	421.83

FLUME K			
POINT NO.	NORTHING	EASTING	ELEVATION
K1	1120895.790	2410114.686	467.00
K2	1120897.288	2410125.587	467.00
K3	1120978.212	2410101.124	446.77
K4	1120979.709	2410112.026	446.77
K5	1121012.703	2410095.450	444.68
K6	1121014.467	2410106.307	444.68
K7	1121073.641	2410085.423	427.58
K8	1121075.427	2410096.277	427.58

FLUME L			
POINT NO.	NORTHING	EASTING	ELEVATION
L1	1120522.022	2410838.600	466.96
L2	1120515.986	2410847.795	466.96
L3	1120591.826	2410884.422	446.67
L4	1120585.790	2410893.617	446.67
L5	1120640.711	2410916.511	436.84
L6	1120634.900	2410925.856	436.84
L7	1120692.880	2410950.758	419.47
L8	1120687.074	2410960.105	419.47

BENCH			
POINT NO.	NORTHING	EASTING	ELEVATION
HP1	1119550.206	2409934.436	528.00
HP2	1119958.767	2409988.521	528.40
HP3	1120384.658	2410075.802	528.00
HP4	1120637.436	2410205.824	528.00
HP5	1120419.247	2410538.687	528.00
HP6	1120329.303	2410640.938	527.75
HP7	1120163.494	2410620.761	528.00
HP8	1119571.110	2410186.124	528.00
HP9	1119460.061	2409896.223	508.00
HP10	1119808.322	2409762.609	507.35
HP11	1119956.345	2409857.312	508.00
HP12	1120432.488	2409982.265	508.00
HP13	1120735.768	2410178.341	508.00
HP14	1120443.384	2410653.936	508.00
HP15	1120081.173	2410681.975	508.00
HP16	1119935.950	2410470.535	507.15
HP17	1119545.908	2410265.659	508.00
HP18	1119172.150	2410233.000	488.00
HP19	1119148.457	2410018.193	488.00
HP20	1119503.852	2409763.106	488.40
HP21	1119965.669	2409757.646	488.00
HP22	1120478.619	2409881.686	488.00
HP23	1120816.114	2410149.174	488.00
HP24	1120481.134	2410748.587	488.00
HP25	1120014.187	2410731.786	488.00
HP26	1119632.115	2410381.069	488.40
HP27	1119355.656	2410378.892	467.51
HP28	1119068.068	2410287.218	468.00
HP29	1119033.034	2409999.136	468.00
HP30	1119239.701	2409850.818	466.91
HP31	1119475.733	2409656.889	468.00
HP32	1119990.530	2409640.265	468.00
HP33	1120526.787	2409779.522	468.00
HP34	1120868.481	2409916.745	468.00
HP35	1120866.746	2410313.289	468.00
HP36	1120635.754	2410665.344	468.00
HP37	1120375.753	2410991.574	468.00
HP38	1119966.733	2410807.260	468.00
HP39	1119524.960	2410453.895	468.00
HP40	1119077.331	2410376.702	447.81
HP41	1118964.244	2410340.598	448.00
HP42	1118975.549	2409938.531	448.40
HP43	1119452.718	2409570.518	448.00
HP44	1120944.784	2409857.699	448.00
HP45	1120954.419	2410332.060	448.00
HP46	1120705.558	2410711.166	448.00
HP47	1120401.299	2411071.513	448.00
HP48	1119926.503	2410893.823	448.00
HP49	1119486.558	2410529.082	448.00
HP50	1118818.114	2410374.662	430.81
HP51	1118769.681	2410006.890	435.04

GEORGIA Department of Natural Resources
Environmental Protection Division
Approved
Solid Waste Management Program
Approved By: Keith Stevens (Digitally signed by Keith Stevens Date: 2023.03.17 10:15:44 -04'00')

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REFERENCE DRAWINGS

H1C11000 TITLE SHEET AND DRAWING INDEX

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

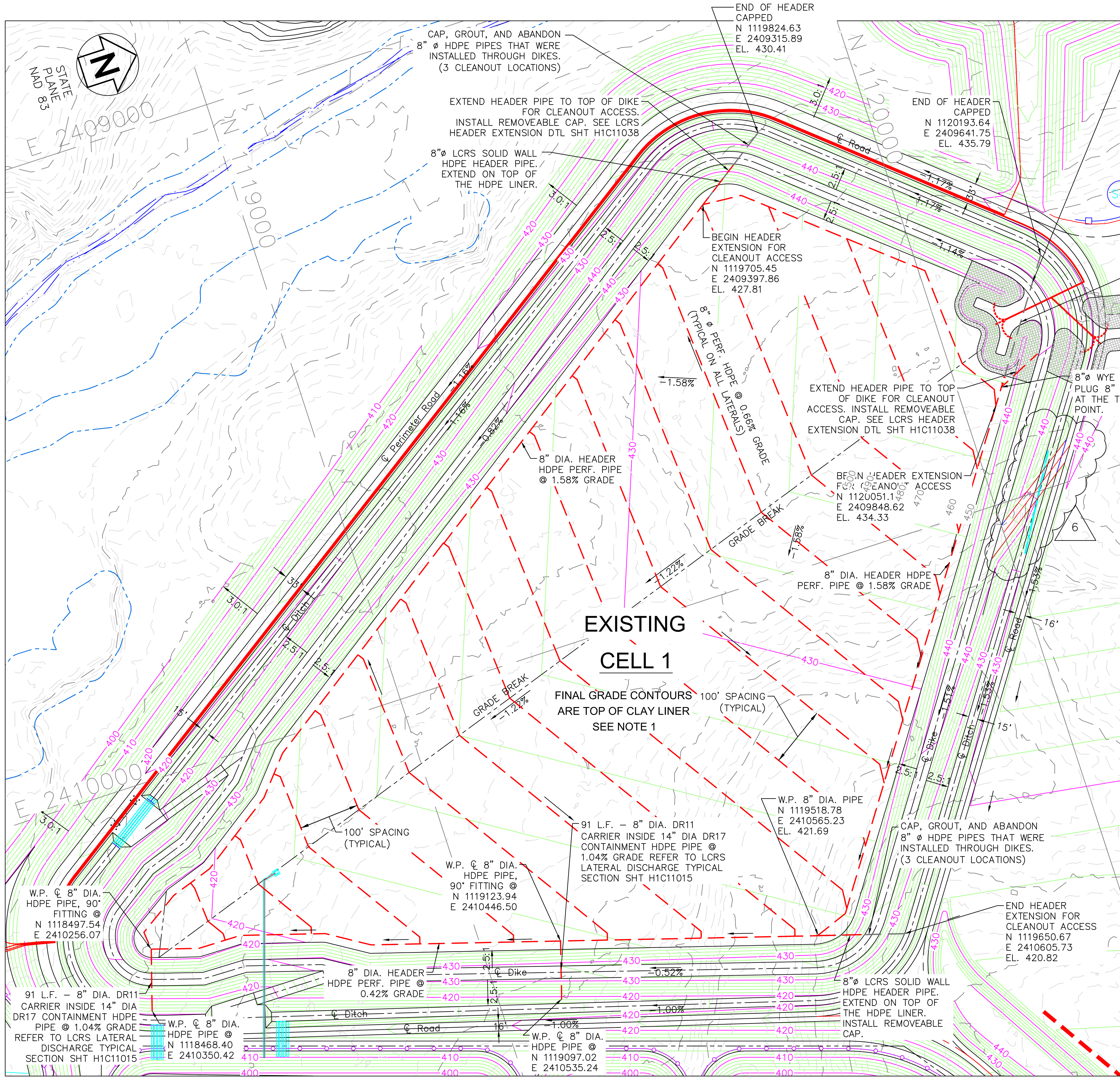
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

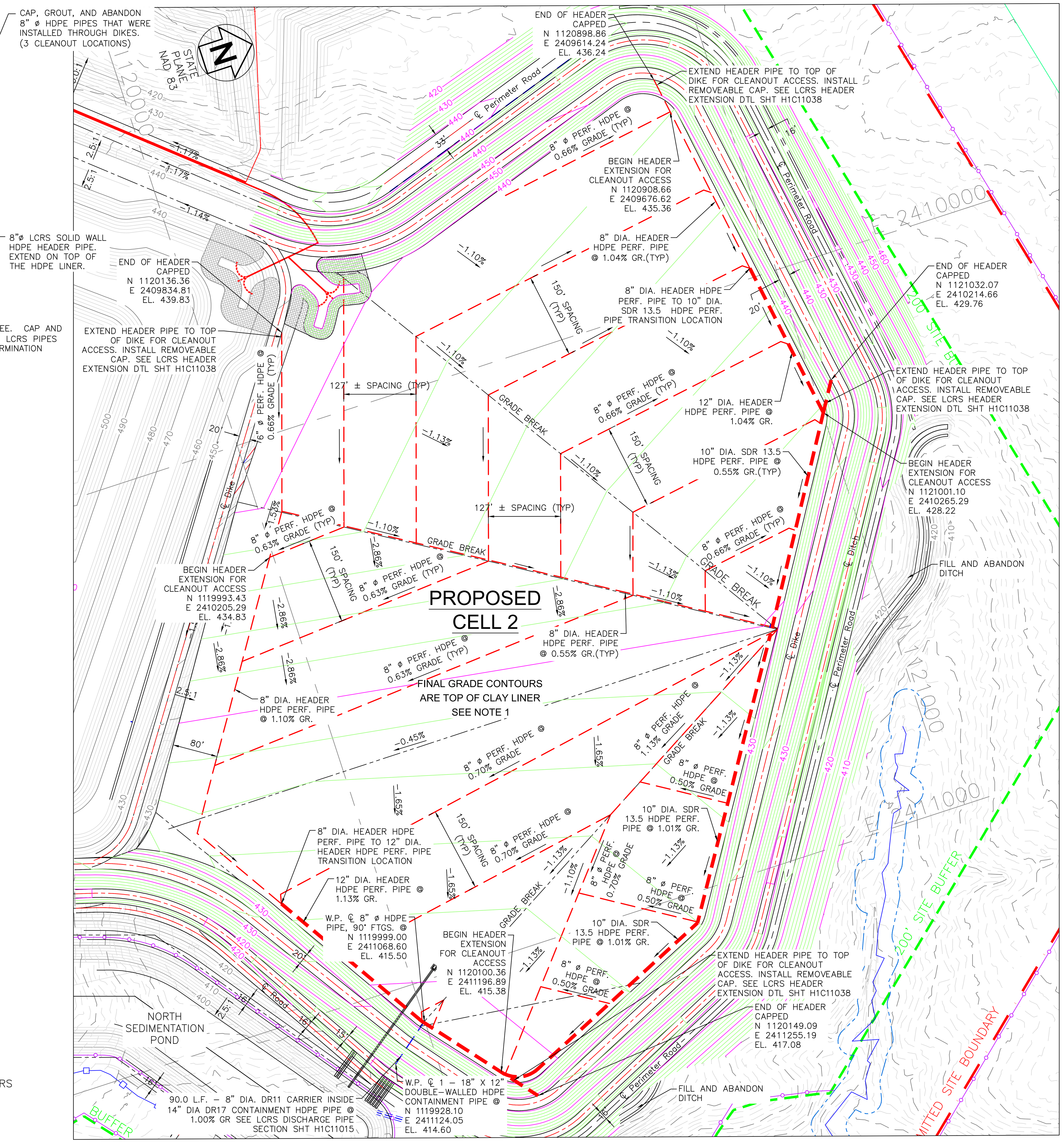
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
FLUME DATA SHEET

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
NONE	010505	H1C11036	1	FINAL	0

ANSI F: 40x28 Acad2004



CELL 1
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
SCALE: 1" = 100'



CELL 2
LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS)
SCALE: 1" = 100'

NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER.
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER.
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
4. SEE DRAWING H1C11038 FOR DETAILS OF LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) PIPES, TRENCHES AND BEDDING.
5. ALL 8" DIA PIPES ASSOCIATED WITH THE LCRS PIPES, HEADER PIPES, AND OUTFALL PIPES, SHALL BE SMOOTH WALL HDPE AND MAXIMUM RATED SDR–13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. OUTFALL PIPES PENETRATING THE LINER AND RUNNING THROUGH DIKE EMBANKMENT SHALL BE DOUBLE WALL HDPE PIPE 12" DIA DR11 CARRIER INSIDE 18" DIA DR17 CONTAINMENT HDPE PIPE.
6. PERFORATIONS SHALL BE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (A TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
7. FOR COMPOSITE LINER DETAIL FOR CELL NO. 1 AND CELL NO. 2 SEE SHEET H1C11015 AND H1C11015A.
8. SEE BASE GRADING PLAN SHEETS FOR GRADE ELEVATIONS, STORM STRUCTURE ELEVATIONS AND RISER STRUCTURE ELEVATIONS.
9. LATERAL PIPES SHALL NOT BE JOINTED AT THE GRADE BREAK RIDGES AND THE TRENCH SHALL BE A CONTINUOUS TRENCH AT THESE LOCATIONS.
10. ALL LINES SHOWN ARE THE CENTERLINE OF THE LATERAL OR HEADER TRENCH.

LEGEND:

- LCRS PIPES/HEADERS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- SLOPE PROTECTION

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11005 CELL NO. 1 SITE DEVELOPMENT BASE GRADE PLAN
H1C11007 CELL NO. 2 SITE DEVELOPMENT BASE GRADE PLAN
H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11015A CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS

GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 GARY H. McWHORTER 10/25/22
GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

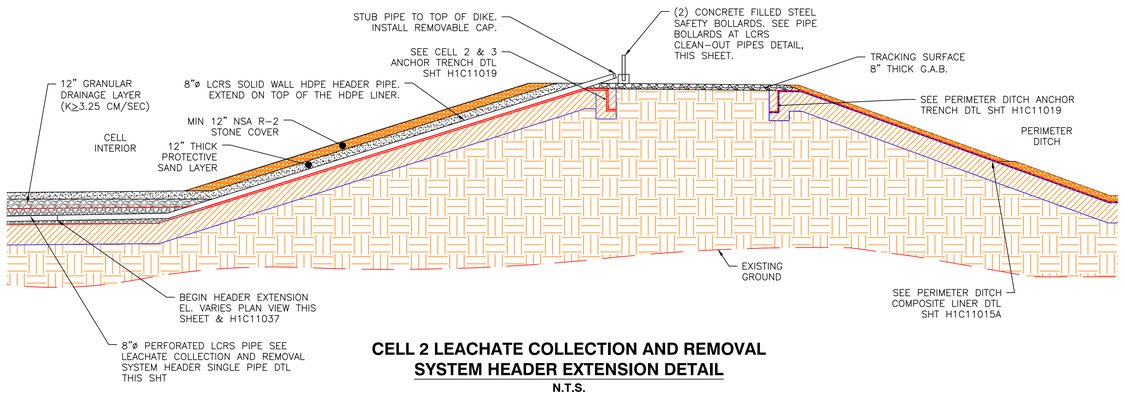
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT

REVISION 0 DATE 10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

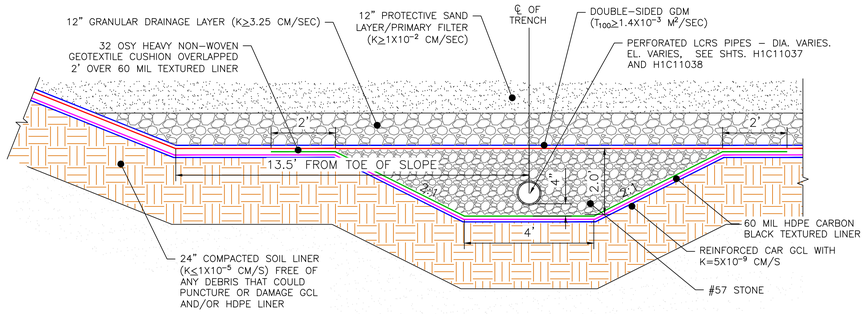
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11037	1	FINAL	0

ANSI F: 40x28 Acad2008



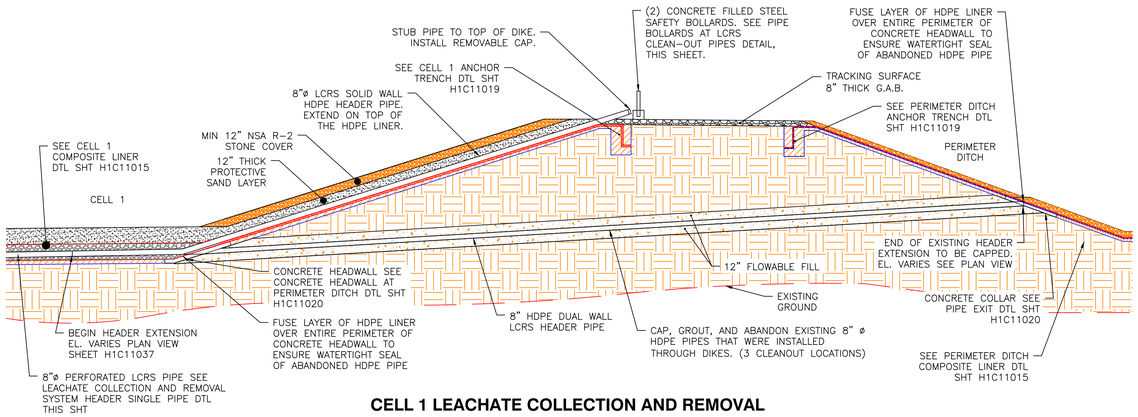
CELL 2 LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER EXTENSION DETAIL

N.T.S.



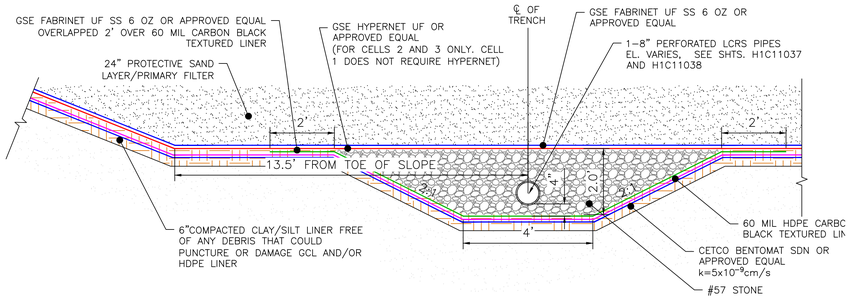
CELL 2
LEACHATE COLLECTION AND REMOVAL
SYSTEM HEADER SINGLE PIPE DETAIL
N.T.S.

NOTE 1: ALL GCL TO BE COAL ASH RESISTANT (CAR).

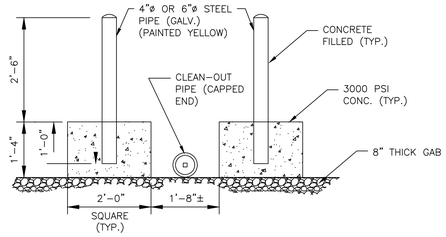


CELL 1 LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER EXTENSION DETAIL

N.T.S.



CELL 1
LEACHATE COLLECTION AND REMOVAL
SYSTEM HEADER SINGLE PIPE DETAIL
N.T.S.



PIPE BOLLARDS AT LCRS
CLEAN-OUT PIPES DETAIL
N.T.S.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 14:13:44 -04'00'

GEORGIA REGISTERED No. 12697 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REFERENCES:

H1C11015 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS SECTIONS
H1C11019 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS
H1C11020 CELL NO. 1 AND CELL NO. 2 MISCELLANEOUS DETAILS, SHEET 3
H1C11037 CELL NO. 1 AND CELL NO. 2 LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT

NOTES:

1. ALL PIPES ASSOCIATED WITH THE LEACHATE COLLECTION AND REMOVAL SYSTEM COLLECTION PIPES, HEADER PIPES, AND OUTFALL PIPES, SHALL BE SMOOTH WALL HDPE AND MAXIMUM RATED SDR-13.5. LATERAL AND HEADER PIPES SHALL BE PERFORATED. OUTFALL PIPES PENETRATING THE LINER AND RUNNING THROUGH DIKE EMBANKMENT SHALL BE DOUBLE WALL HDPE PIPE 8" DIA DR11 CARRIER INSIDE 14" DIA DR17 CONTAINMENT HDPE PIPE.
2. PERFORATIONS SHALL BE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (A TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.
4. FOR COMPOSITE LINER DETAIL FOR CELLS NO. 1 AND CELL NO. 2 SEE SHEET H1C11015 AND H1C11015A.

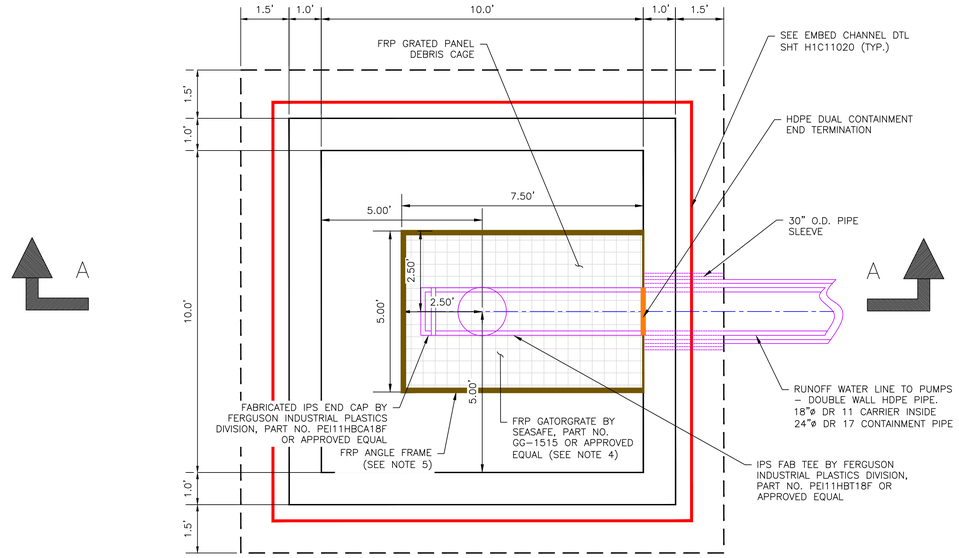
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
CELL NO. 1 AND CELL NO. 2
LEACHATE COLLECTION AND
REMOVAL SYSTEM DETAILS

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	10-24-2022	ANR		RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								

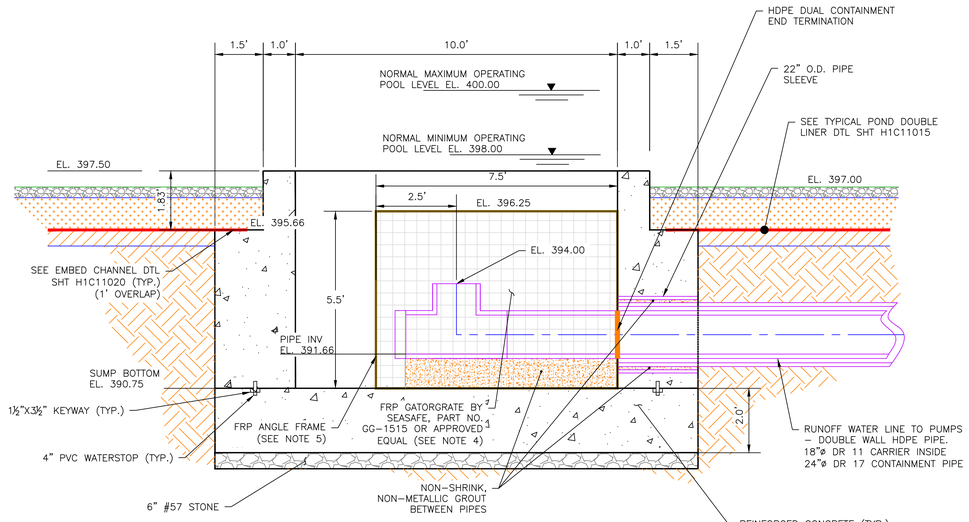
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	**H1C11038**	1	FINAL	0

ANSI F: 40x28 Acad2004



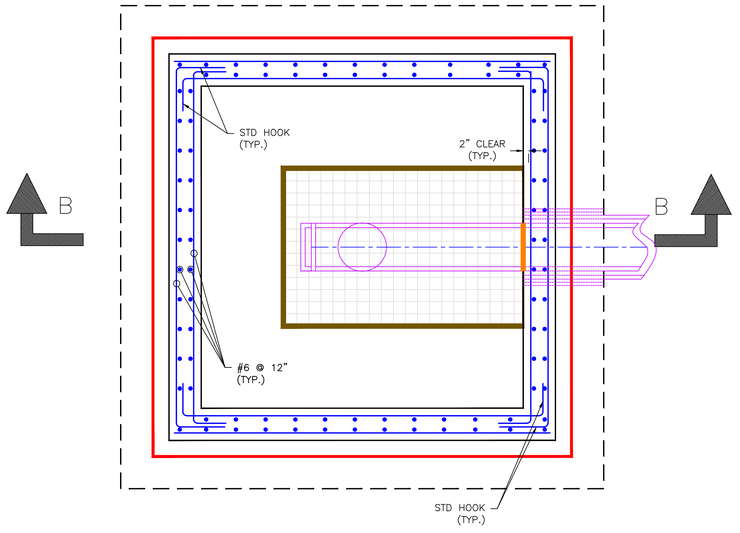
CLEAR POOL RETURN WATER INTAKE SUMP PLAN

1" = 2'



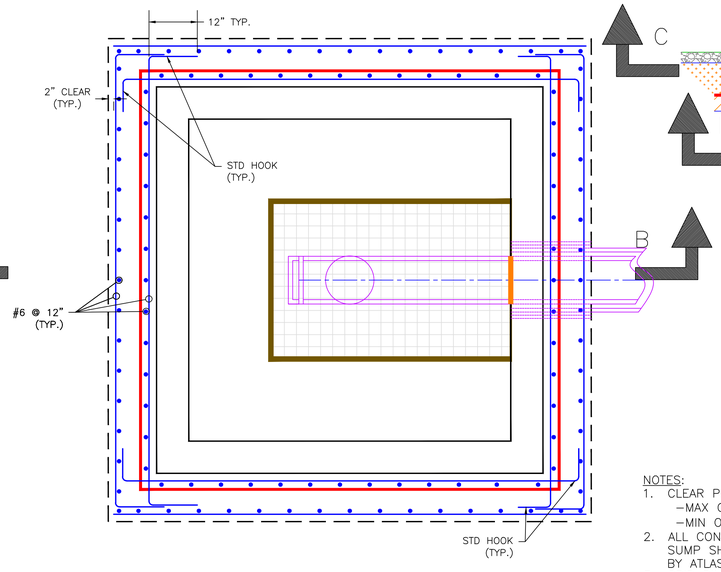
SECTION A-A

1" = 2'



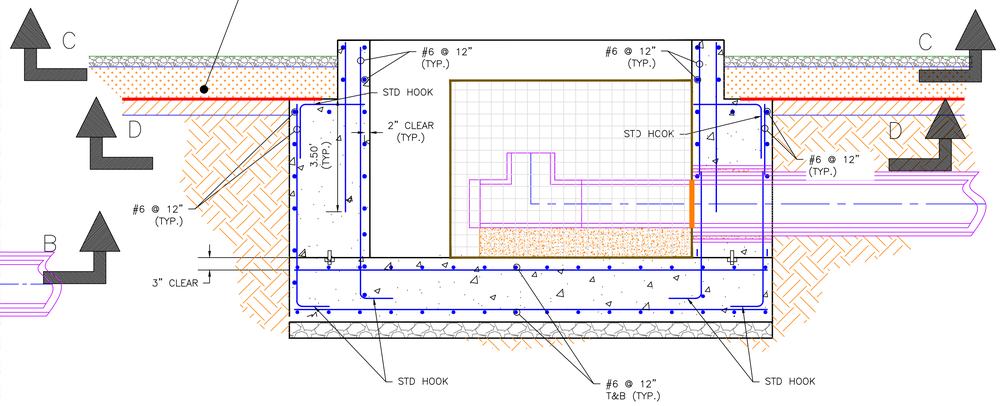
CLEAR POOL RETURN WATER INTAKE SUMP REINFORCEMENT PLAN C-C

1" = 2'



CLEAR POOL RETURN WATER INTAKE SUMP REINFORCEMENT PLAN D-D

1" = 2'



SECTION B-B

1" = 2'

NOTES:

1. CLEAR POOL OPERATING LEVELS
   - –MAX OPERATING LEVEL 400.00 (PUMPS ON)
   - –MIN OPERATING LEVEL 398.00 (PUMPS OFF)
2. ALL CONCRETE AND METAL USED IN RETURN WATER INTAKE SUMP SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS AND CHEMICALS, INC. OR APPROVED EQUAL
3. GRID DIMENSIONS FOR GATORGATE GG-1515 ARE:
   - –1½" THICK, 1½"X1½" SQUARE GRID CENTERLINE TO CENTERLINE
   - –BEARING BARS AND CROSS BARS ¼" THICK
   - –OPEN, CLEAR DIMENSION OF ONE GRID – 1¼"X1¼"
4. DEBRIS CAGE FRAME TO BE CONSTRUCTED WITH FRP 2¼" ANGLES BY SEASAFE. GATORGRATE PANELS TO BE ATTACHED TO FRAME BY STAINLESS STEEL BOLTS AND HARDWARE BY SEASAFE.
5. DEBRIS CAGE TO BE FASTENED TO CONCRETE FLOOR BY STAINLESS STEEL BOLTS AND HARDWARE.

REFERENCES:
H1C11000 – TITLE SHEET AND DRAWING INDEX
H1C11015 – CELL NO. 1 THROUGH CELL NO. 3 MISCELLANEOUS SECTIONS SHEET 2
H1C11020 CELL NO. 1 THROUGH CELL. NO. 3 MISCELLANEOUS DETAILS SHEET 3

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12007 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

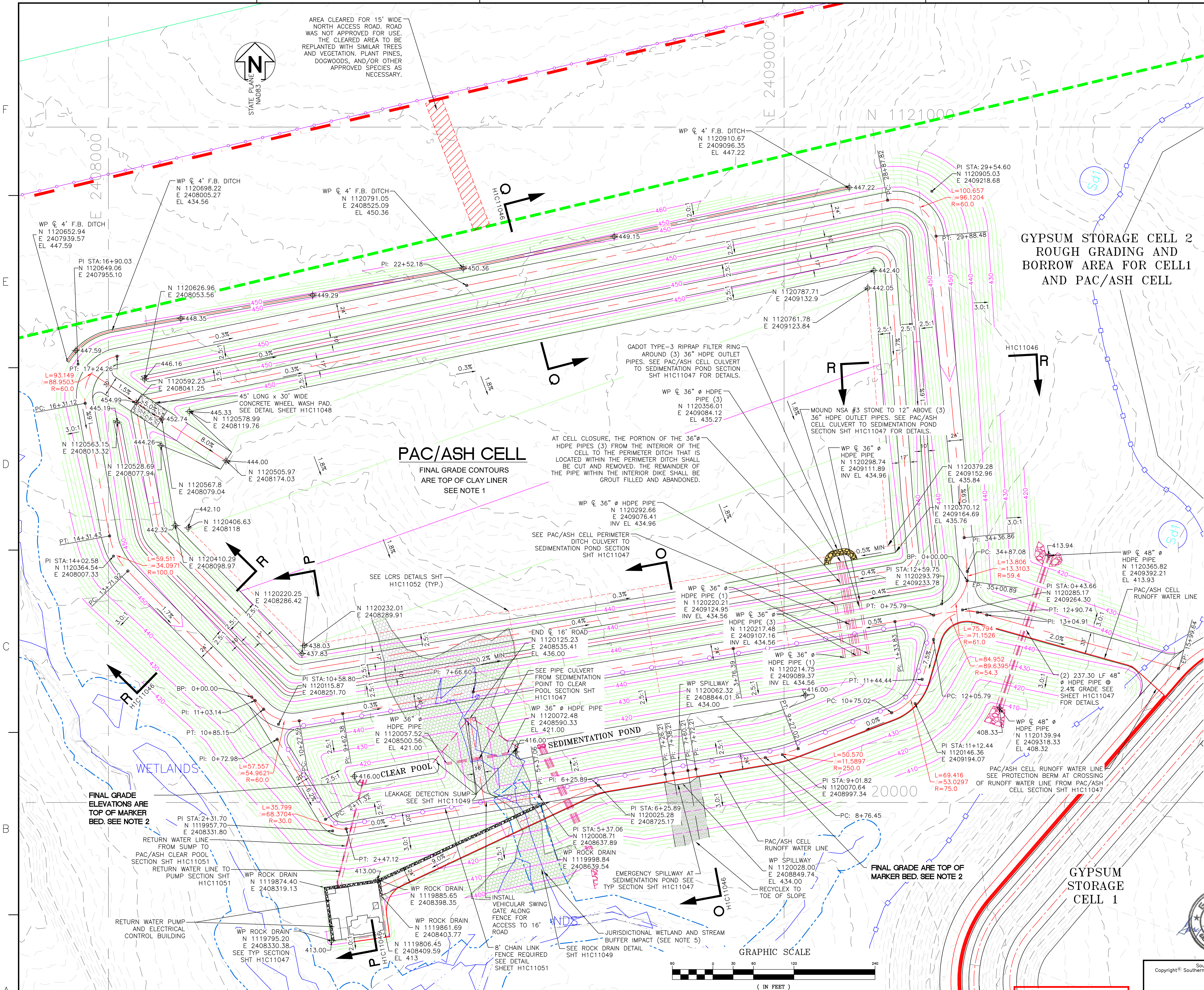
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
CELL NO. 1 THROUGH CELL NO. 3 CLEAR POOL
RETURN WATER INTAKE AND SECTIONS

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11041	1	FINAL	0

ANSI F: 40x28 Acad2004



PAC/ASH CELL ℄ PERIMETER ROAD STATIONING

Station	Northing	Easting	Elevation	Length	Grade
0+00.00	1120328.33	2409270.89	447.290'	75.794'	−0.66%
0+75.79	1120277.46	2409221.33	446.790'	58.032'	−0.52%
1+33.83	1120267.92	2409164.09	446.490'	242.562'	−0.52%
3+76.39	1120228.05	2408924.82	445.240'	390.212'	0.28%
7+66.60	1120163.90	2408539.92	446.348'	195.778'	0.28%
9+62.38	1120131.72	2408346.80	446.904'	65.211'	0.28%
10+27.59	1120121.00	2408282.48	447.089'	28.500'	0.26%
10+85.15	1120138.13	2408229.82	447.240'	17.997'	1.61%
11+03.14	1120150.97	2408217.21	447.531'	268.774'	1.61%
13+71.92	1120342.67	2408028.82	451.870'	59.511'	1.42%
14+31.43	1120394.71	2408001.79	452.715'	199.688'	1.61%
16+31.12	1120591.1	2407965.74	455.939'	23.300'	1.29%
17+24.26	1120660.75	2408012.84	456.180'	89.474'	−0.30%
22+52.18	1120765.57	2408530.24	454.596'	229.354'	−0.30%
28+87.82	1120891.77	2409153.23	452.689'	100.657'	−0.72%
29+88.48	1120838.54	2409224.89	451.963'	448.377'	−0.91%
34+36.86	1120342.10	2409271.22	447.897'	50.225'	−0.91%
34+87.08	1120342.10	2409271.22	447.441'	13.806'	−1.09%
35+00.89 =0+00.00	1120328.33	2409270.89	447.290'		

PAC/ASH CELL ℄ POND ROAD STATIONING

0+00.00	1120119.13	2408234.45	446.872'	29.797'	−2.26%
0+29.80	1120093.62	2408249.84	446.200'	138.341'	−6.16%
1+68.14	1119975.15	2408321.28	437.671'	35.799'	−4.11%
2+03.94	1119961.05	2408351.90	436.200'	289.939'	0.00%
4+93.88	1120008.71	2408637.89	436.200'	88.831'	0.00%
5+82.71	1120025.28	2408725.17	436.240'	92.683'	0.00%
7+37.04	1120066.47	2408972.32	436.240'	96.242'	0.00%
8+33.28	1120079.75	2409021.02	436.240'	50.570'	0.00%
8+83.85	1120132.92	2409159.15	436.240'	148.004'	0.00%
10+31.86	1120182.34	2409204.33	436.240'	69.416'	6.30%
11+01.27	1120241.33	2409221.16	440.615'	61.346'	7.50%
11+62.62	1120241.33	2409221.16	445.217'	10.438'	7.50%
12+47.57	1120277.70	2409299.98	447.034'	14.174'	−2.14%
12+61.74	1120277.70	2409299.98	446.731'	268.119'	−2.17%
15+29.86	1120205.62	2409558.23	440.906'		

NOTES:

1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
4. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
5. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
6. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
7. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
9. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.
10. IF, DURING CONSTRUCTION/EXCAVATION OF THE SITE, ANY SPRINGS OR SEEPS ARE DISCOVERED, EPD SHALL BE IMMEDIATELY NOTIFIED AND PROTECTIVE MEASURES SHALL BE INCORPORATED INTO THE FACILITY'S DESIGN AND OPERATIONS PLANS TO PREVENT CONTAMINATION OF THE SPRING OR SEEP. SAMPLING OF THE SPRING OR SEEP SHALL ALSO BE INCORPORATED INTO THE FACILITY'S GROUNDWATER SAMPLING PLAN.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM AND WETLAND BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

EROSION CONTROL LEGEND

- Sd1 SILT FENCE (SEE H1C11033)
- Di DIVERSION (SEE H1C11033)
- Lv LEVEL SPREADER (SEE H1C11033)
- Du DUST CONTROL
- Cd-s STONE CHECK DAM (2"-10" STONE)
- Sd3 TEMPORARY SEDIMENT BASIN

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11046 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11047 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTION

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens
Approved By:

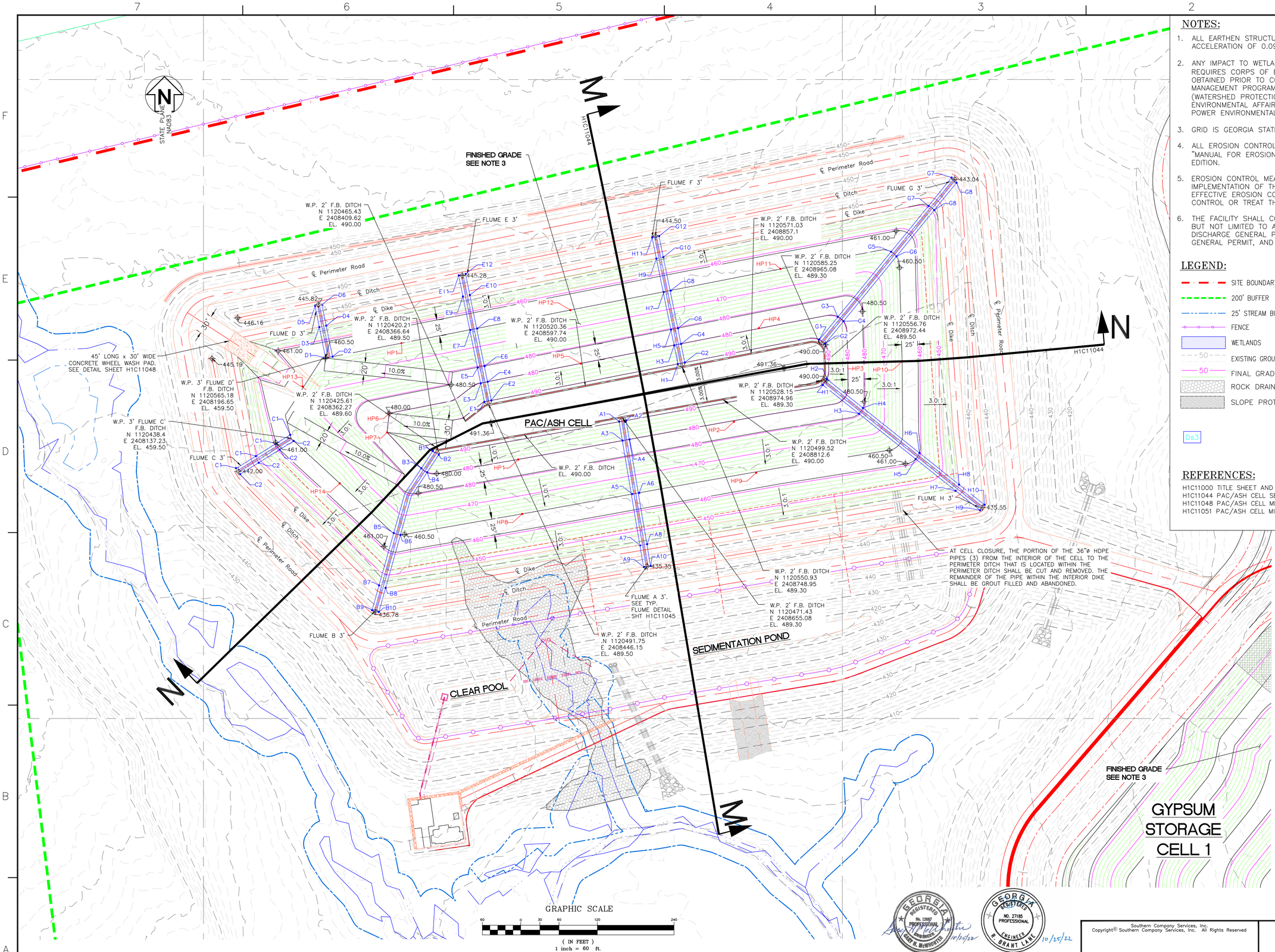
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL SITE DEVELOPMENT
BASE GRADING PLAN

REVISION 0 | DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR	SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
ANR		RBL					1"=60'	010505	H1C11042	1	FINAL	0

ANSI F: 40x28 Acad2008



GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA", CURRENT EDITION.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.

LEGEND:

- SITE BOUNDARY
- 200' BUFFER
- 25' STREAM BUFFER
- FENCE
- WETLANDS
- 50 EXISTING GROUND CONTOURS
- 50 FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

Ds3

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11044 PAC/ASH CELL SECTION A–A AND SECTION B–B
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

CLEAR POOL STAGE STORAGE TABLE

ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
416.000	2,551.56	N/A	N/A	0.00
418.000	4,109.81	2.000	6661.37	6661.37
420.000	5,870.53	2.000	9980.34	16641.71
422.000	7,832.69	2.000	13703.22	30344.93
424.000	10,002.01	2.000	17834.70	48179.63
426.000	12,372.12	2.000	22374.13	70553.76
428.000	14,944.52	2.000	27316.64	97870.41
430.000	17,719.22	2.000	32663.74	130534.15
432.000	20,696.22	2.000	38415.44	168949.59
434.000	23,846.96	2.000	44543.18	213492.77
436.000	27,202.61	2.000	51049.57	264542.34

SED POND STAGE STORAGE TABLE

ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)
416.000	8,566.38	N/A	N/A	0.00
418.000	13,664.58	2.000	22230.95	22230.95
420.000	19,308.27	2.000	32972.85	55203.80
422.000	25,388.25	2.000	44696.53	99900.33
424.000	31,516.07	2.000	56904.33	156804.66
426.000	37,844.03	2.000	69360.11	226164.77
428.000	44,369.06	2.000	82213.09	308377.86
430.000	51,093.17	2.000	95462.23	403840.09
432.000	58,008.21	2.000	109101.39	512941.48
434.000	65,112.76	2.000	123120.97	636062.45
436.000	72,425.94	2.000	137538.70	773601.15

GEORGIA REGISTERED No. 12801 PROFESSIONAL ENGINEER WILLIAM H. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

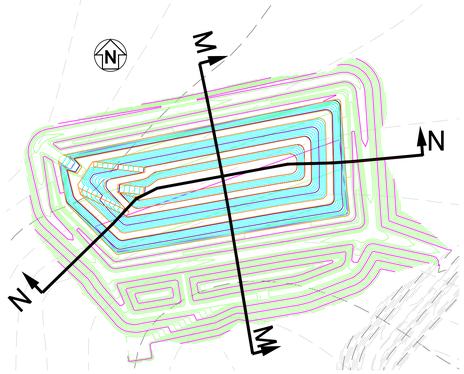
PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
FINAL STACKING PLAN

REVISION	DATE
0	10–24–2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

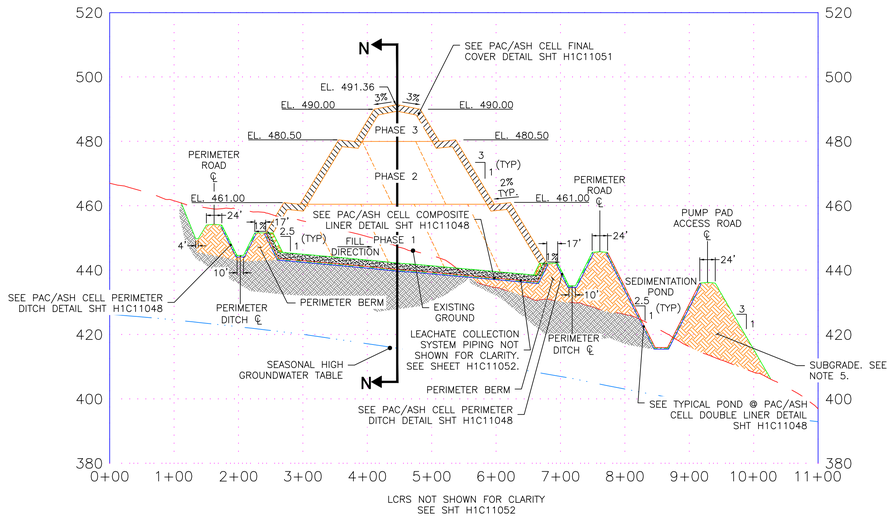
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CON'T'D	REV
1"=60"	010505	H1C11043	1	FINAL	0

ANSI F: 40x28 Acad2004



KEY PLAN

NOT TO SCALE



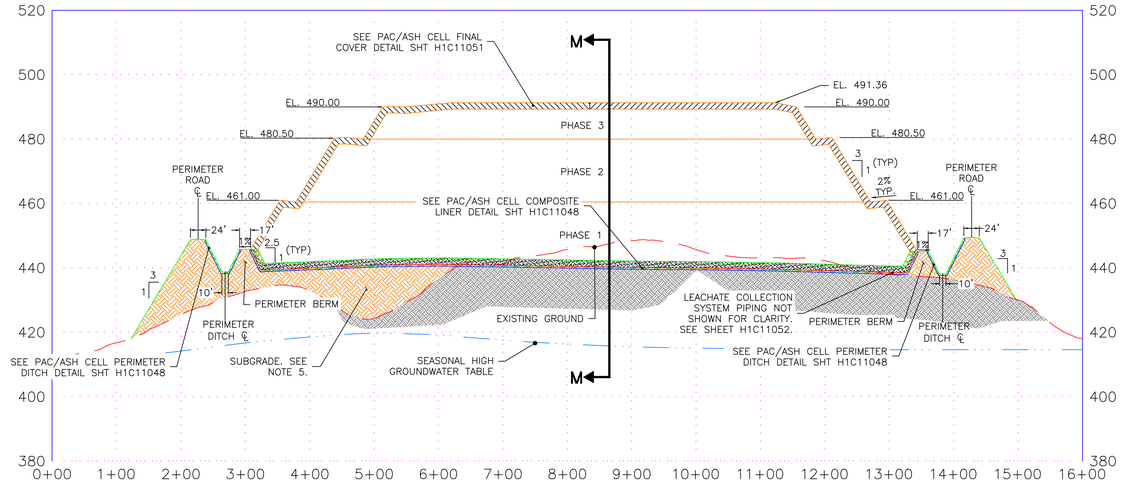
LCRS NOT SHOWN FOR CLARITY
SEE SHT H1C11052

PAC/ASH CELL SECTION M-M

SCALE H: 1"=100' V: 1"=20'
H1C11043

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION AND ASSISTANCE.
3. GRID IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA, CURRENT EDITION.
5. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.



LCRS NOT SHOWN FOR CLARITY
SEE SHT H1C11052

PAC/ASH CELL SECTION N-N

SCALE H: 1"=100' V: 1"=20'
H1C11043

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

GEORGIA REGISTERED No. 12987 PROFESSIONAL ENGINEER GARY H. McWHORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
SECTION M-M AND SECTION N-N
PERIMETER DIKE THROUGH FINAL STACK

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1"=100'	010505	H1C11044	1	FINAL	0

ANSI F: 40x28 Acad2004

PAC/ASH CELL

FLUME A			
POINT NO.	ELEVATION	NORTHING	EASTING
A1	490.00	1120464.50	2408650.68
A2	489.98	1120466.32	2408661.53
A3	480.00	1120434.91	2408656.03
A4	480.00	1120436.73	2408666.88
A5	460.50	1120351.26	2408671.15
A6	460.50	1120353.09	2408682.00
A7	445.39	1120270.96	2408683.58
A8	445.39	1120272.78	2408694.43
A9	445.39	1120236.93	2408689.30
A10	445.39	1120238.75	2408700.14

FLUME B			
POINT NO.	ELEVATION	NORTHING	EASTING
B1	490.01	1120418.88	2408359.09
B2	489.21	1120412.71	2408368.27
B3	480.01	1120391.57	2408341.06
B4	480.12	1120385.40	2408350.24
B5	460.52	1120290.16	2408297.95
B6	460.51	1120287.22	2408308.35
B7	445.39	1120208.30	2408274.87
B8	0.00	1120204.42	2408285.18
B9	890.78	1120169.65	2408263.97
B10	445.39	1120166.57	2408274.56

FLUME C			
POINT NO.	ELEVATION	NORTHING	EASTING
C1	460.50	1120443.99	2408135.81
C2	460.50	1120434.39	2408141.20
C3	472.15	1120410.63	2408082.14
C4	461.00	1120400.36	2408086.46
C5	11.15	1120391.85	2408050.89
C6	461.00	1120382.31	2408057.43

FLUME D			
POINT NO.	ELEVATION	NORTHING	EASTING
D1	460.50	1120564.13	2408191.26
D2	460.50	1120566.24	2408202.05
D3	452.86	1120612.54	2408181.39
D4	452.84	1120614.74	2408192.17
D5	501.15	1120645.60	2408174.93
D6	55.11	1120647.79	2408185.71

FLUME E			
POINT NO.	ELEVATION	NORTHING	EASTING
E1	489.88	1120495.55	2408439.76
E2	489.99	1120497.75	2408450.54
E3	480.12	1120524.67	2408434.06
E4	480.10	1120526.87	2408444.84
E5	460.62	1120608.09	2408417.73
E6	460.60	1120610.28	2408428.50
E7	486.04	1120660.47	2408406.16
E8	40.00	1120662.66	2408416.94
E9	530.65	1120693.52	2408399.70
E10	84.61	1120695.72	2408410.48

FLUME F			
POINT NO.	ELEVATION	NORTHING	EASTING
F1	490.00	1120554.88	2408742.53
F2	489.99	1120557.03	2408753.32
F3	480.12	1120583.96	2408736.84
F4	480.10	1120586.15	2408747.62
F5	460.62	1120667.37	2408720.51
F6	460.60	1120669.57	2408731.28
F7	451.58	1120719.75	2408708.94
F8	451.55	1120721.95	2408719.72
F9	530.65	1120752.80	2408702.48
F10	84.61	1120755.00	2408713.26

FLUME G			
POINT NO.	ELEVATION	NORTHING	EASTING
G1	489.88	1120593.24	2408963.87
G2	489.83	1120586.40	2408973.07
G3	480.00	1120628.58	2408992.70
G4	480.00	1120621.71	2409001.87
G5	460.51	1120730.43	2409076.38
G6	460.50	1120723.16	2409084.68
G7	0.00	1120802.20	2409134.94
G8	−445.39	1120795.63	2409143.78
G9	0.00	1120846.47	2409171.05
G10	−445.39	1120838.46	2409178.71

FLUME H			
POINT NO.	ELEVATION	NORTHING	EASTING
H1	489.62	1120521.99	2408969.42
H2	489.78	1120530.59	2408976.27
H3	480.02	1120497.69	2408999.91
H4	480.01	1120506.38	2409006.65
H5	460.51	1120427.55	2409087.92
H6	460.50	1120437.26	2409093.39
H7	0.00	1120356.27	2409177.16
H8	−445.39	1120366.15	2409182.62
H9	445.39	1120325.94	2409215.40
H10	0.00	1120334.55	2409222.26

BENCH			
POINT NO.	ELEVATION	NORTHING	EASTING
HP1	480.40	1120405.31	2408492.83
HP2	480.40	1120464.41	2408830.31
HP3	480.35	1120556.71	2409008.53
HP4	480.31	1120610.88	2408869.37
HP5	480.38	1120555.41	2408590.84
HP6	480.20	1120477.64	2408290.66
HP7	480.20	1120447.85	2408287.43
HP8	460.93	1120320.09	2408498.89
HP9	460.98	1120384.64	2408865.10
HP10	460.80	1120558.61	2409093.51
HP11	460.93	1120703.69	2408902.92
HP12	460.88	1120639.15	2408574.44
HP13	460.78	1120587.16	2408309.89
HP14	460.65	1120519.68	2408155.14
HP15	460.75	1120367.94	2408213.31

GEORGIA Department of Natural Resources
Environmental Protection Division
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 GARY R. McWHORTER 10/25/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. BRANT LANE 10/25/22

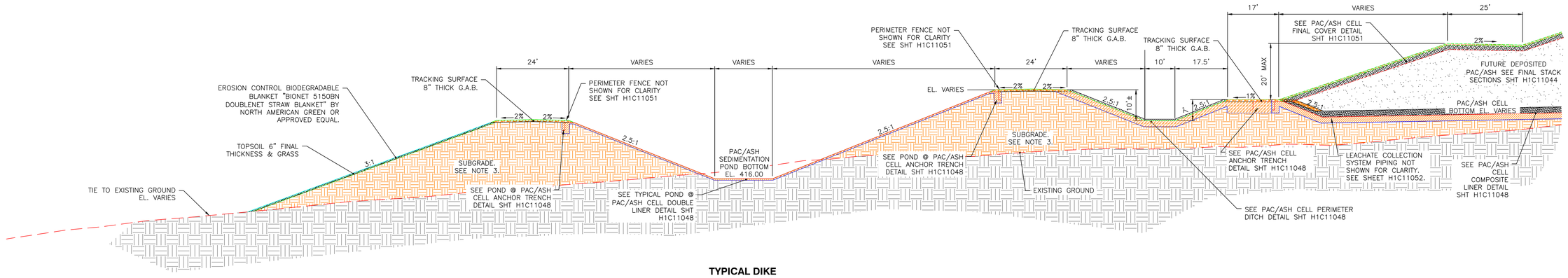
Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

REVISION 0 DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

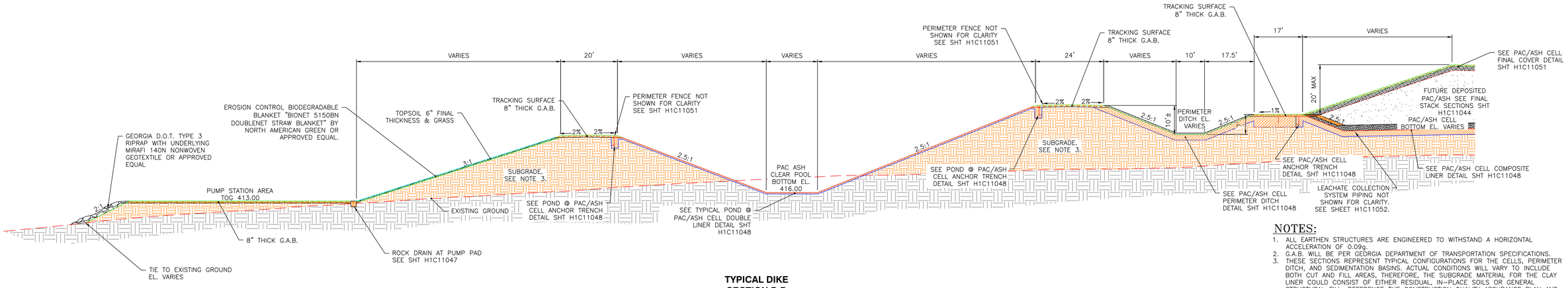
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
FLUME DATA SHEET
SHEET 1

BY	CHK'D	SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
ANR	RBL	AS NOTED	010505	H1C11045	1	FINAL	0

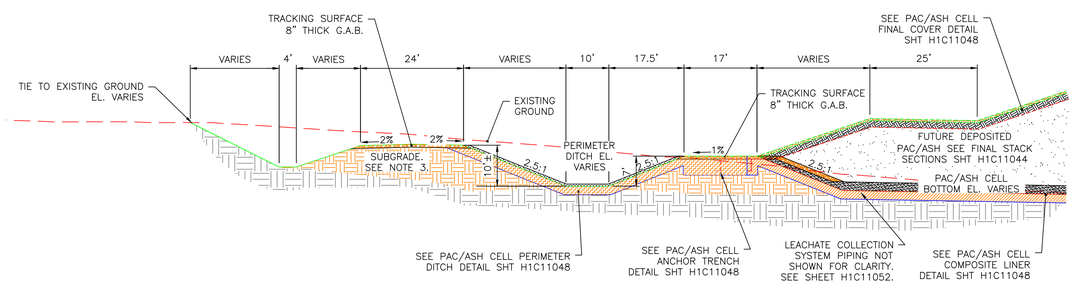
ANSI F: 40x28 Acad2004



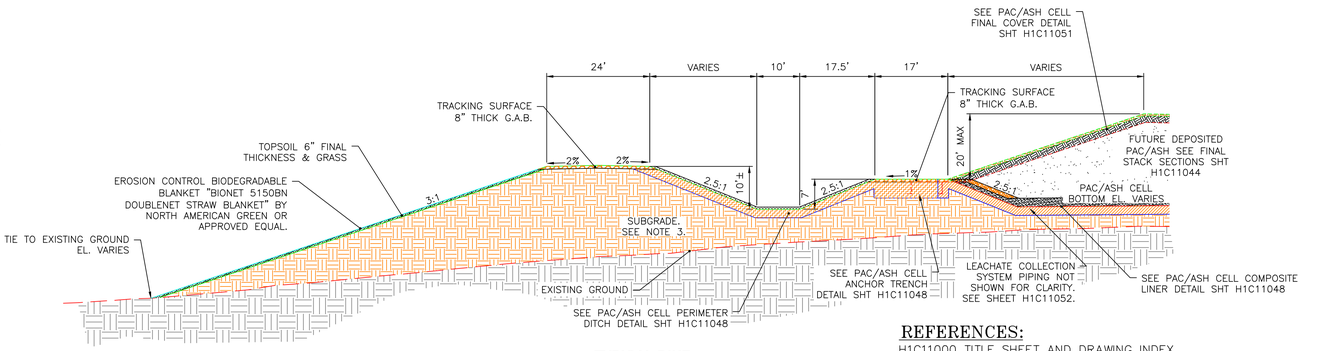
TYPICAL DIKE SECTION O-O
N.T.S.
H1C11042



TYPICAL DIKE SECTION P-P
N.T.S.
H1C11042



TYPICAL DIKE SECTION Q-Q
N.T.S.
H1C11042



TYPICAL DIKE SECTION R-R
N.T.S..
H1C11042

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g.
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11044 PAC/ASH CELL SECTION M-M AND SECTION N-N PERIMETER DIKE THROUGH FINAL STACK
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12687 PROFESSIONAL ENGINEER GENE H. McWHORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

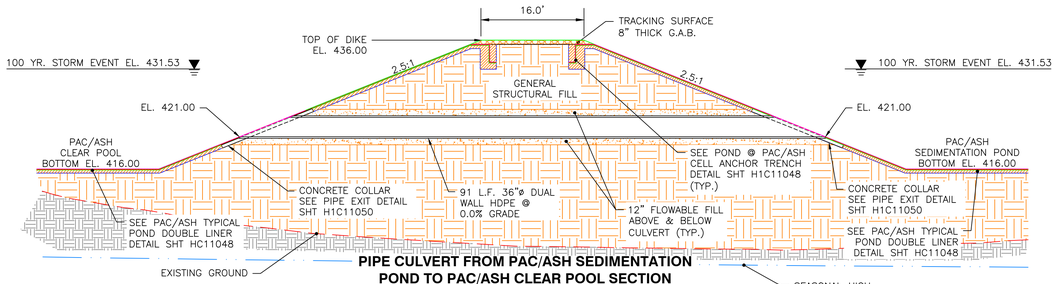
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC ASH CELL
MISCELLANEOUS SECTIONS
SHEET 1

REVISION	DATE
REVISION 0	DATE 10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

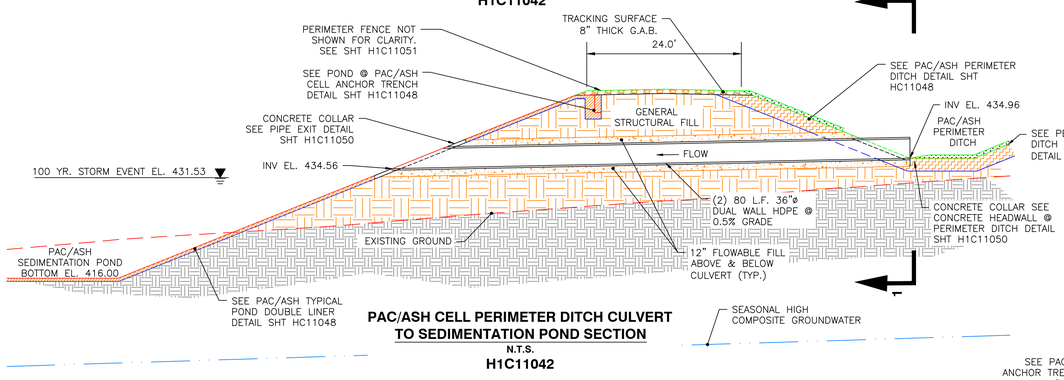
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11046	1	FINAL	0

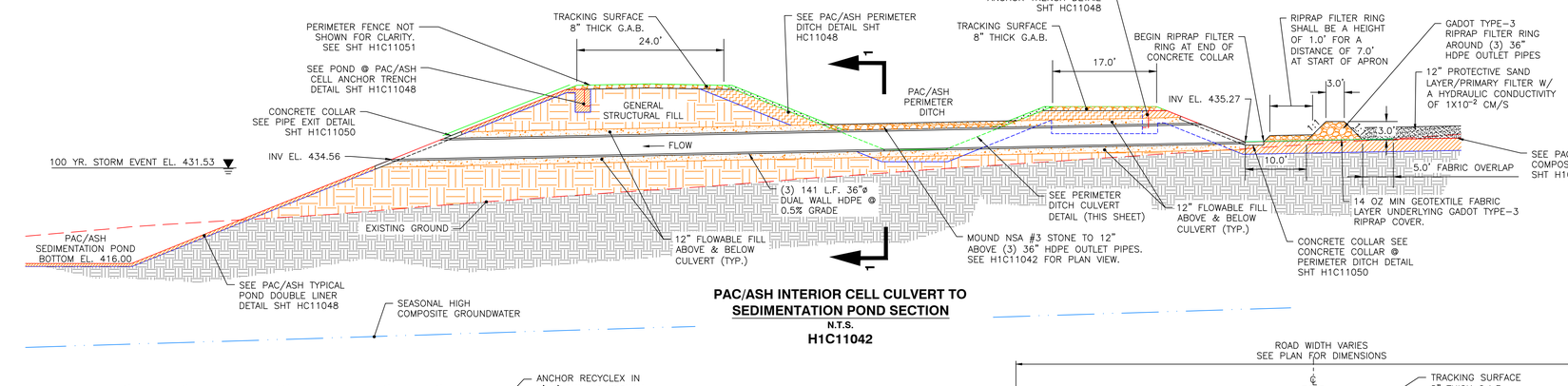
ANSI F: 40x28 Acad2004



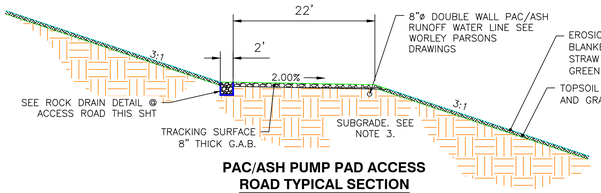
PIPE CULVERT FROM PAC/ASH SEDIMENTATION POND TO PAC/ASH CLEAR POOL SECTION
N.T.S.
H1C11042



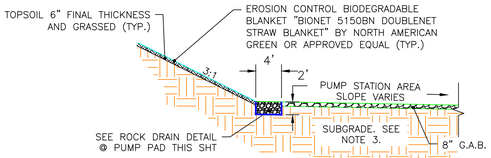
PAC/ASH CELL PERIMETER DITCH CULVERT TO SEDIMENTATION POND SECTION
N.T.S.
H1C11042



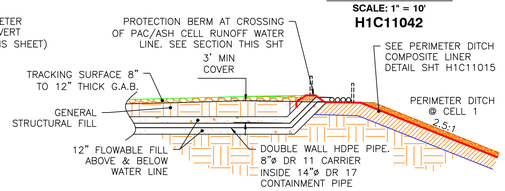
PAC/ASH INTERIOR CELL CULVERT TO SEDIMENTATION POND SECTION
N.T.S.
H1C11042



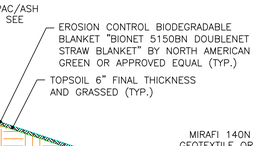
PAC/ASH PUMP PAD ACCESS ROAD TYPICAL SECTION
N.T.S.
H1C11042



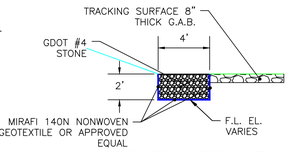
PAC/ASH PUMP PAD ROCK DRAIN TYPICAL SECTION
SCALE: 1" = 10'
H1C11042



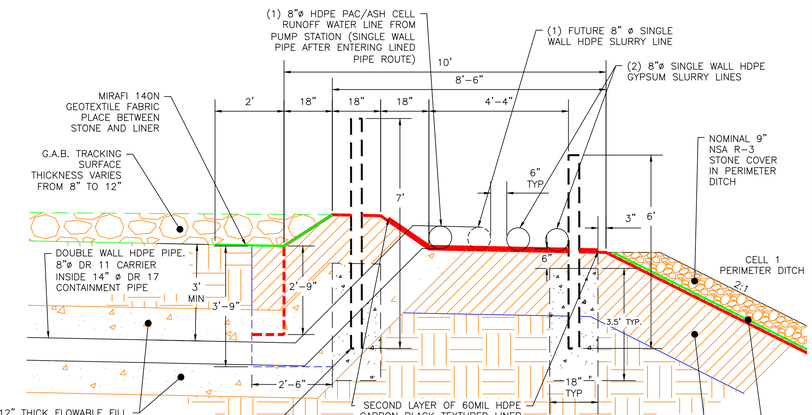
ROAD CROSSING OF PAC/ASH CELL RUNOFF WATER LINE FROM PAC/ASH CELL PUMP STATION SECTION
N.T.S.
H1C11042



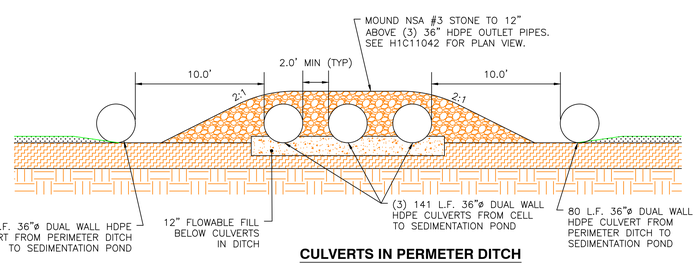
ROCK DRAIN DETAIL @ PAC/ASH ACCESS ROAD
N.T.S.



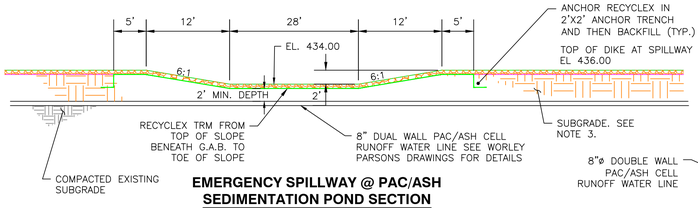
ROCK DRAIN DETAIL @ PAC/ASH PUMP PAD
N.T.S.



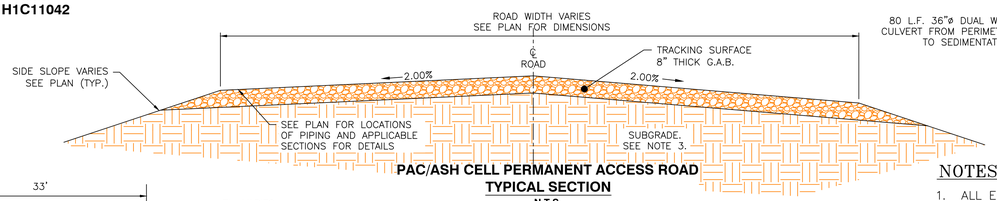
SPILL PROTECTION BERM AT CROSSING OF RUNOFF WATER LINE FROM PAC/ASH CELL TYPICAL SECTION
N.T.S.
H1C11042



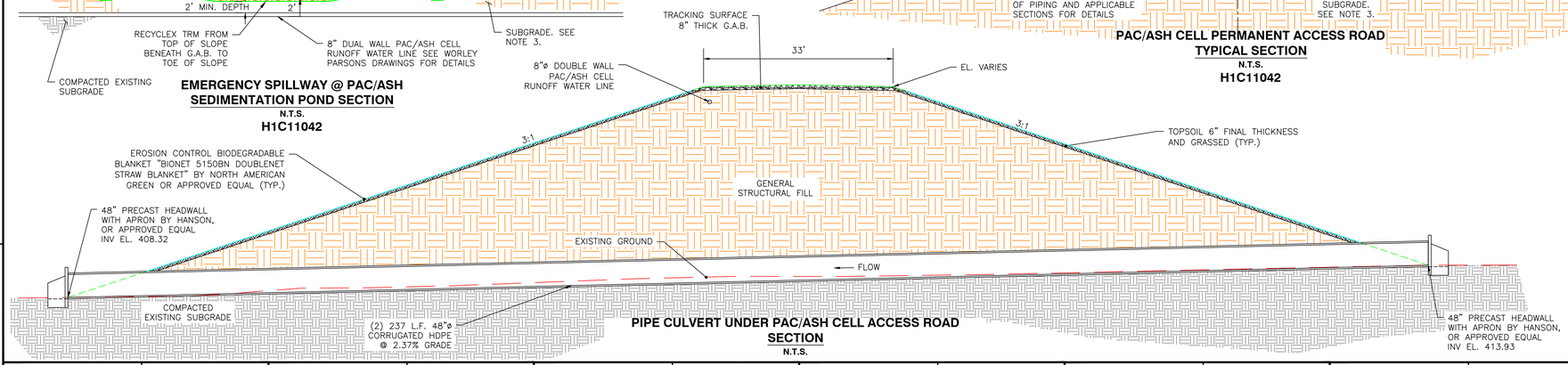
CULVERTS IN PERMETER DITCH SECTION 1-1
N.T.S.



EMERGENCY SPILLWAY @ PAC/ASH SEDIMENTATION POND SECTION
N.T.S.
H1C11042



PAC/ASH CELL PERMANENT ACCESS ROAD TYPICAL SECTION
N.T.S.
H1C11042



PIPE CULVERT UNDER PAC/ASH CELL ACCESS ROAD SECTION
N.T.S.

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11015 CELL NO.1 THOUGH CELL NO. 3 MISCELLANEOUS
H1C11048 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11050 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12057 PROFESSIONAL Engineer GARY M. McWHORTER 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

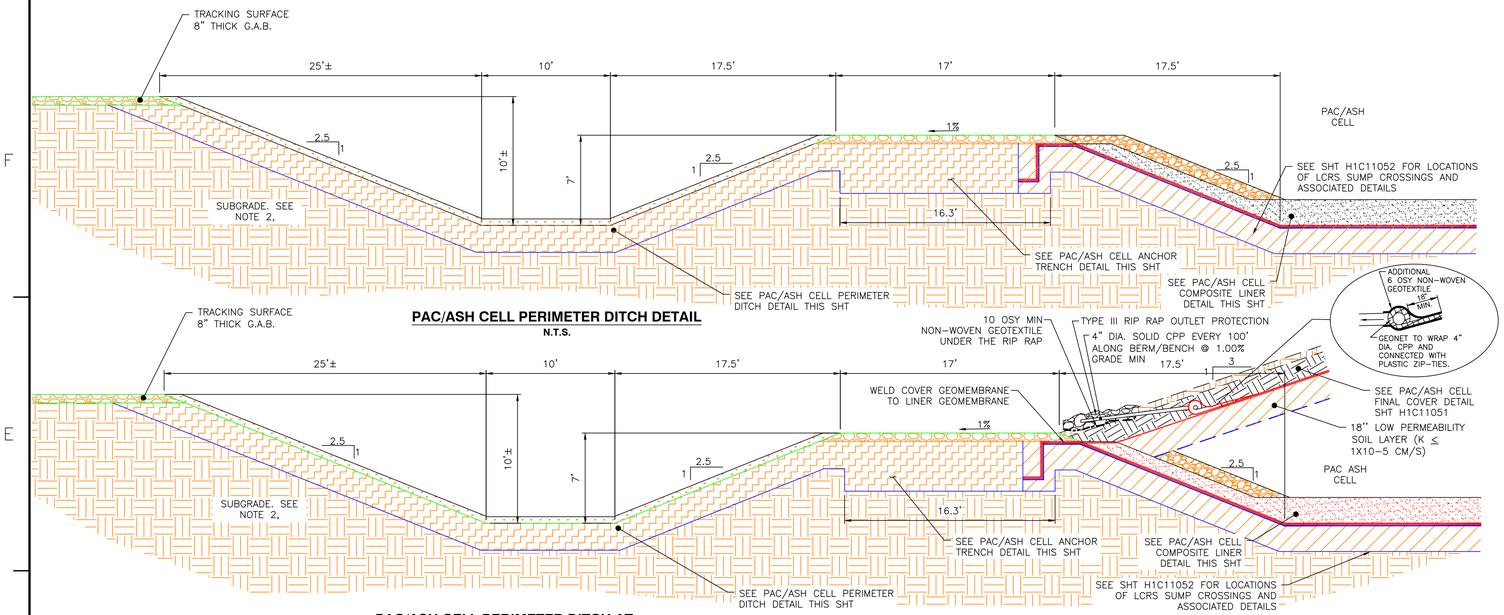
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 2

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

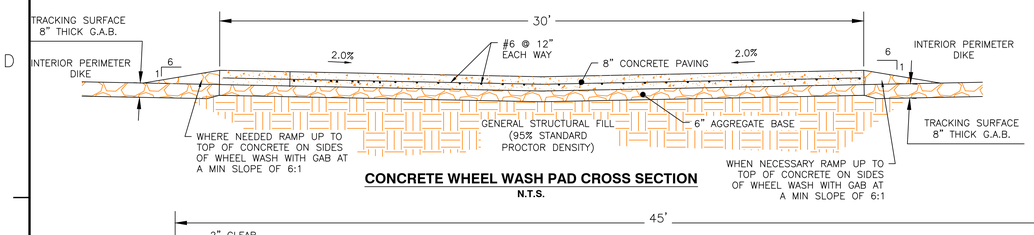
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11047	1	FINAL	0

ANSI F: 40x28 Acad2004

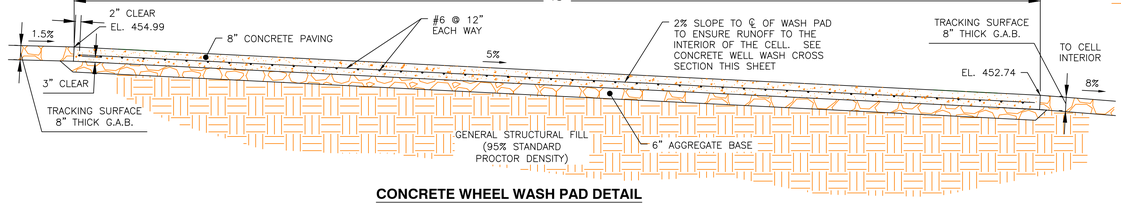


PAC/ASH CELL PERIMETER DITCH DETAIL
N.T.S.

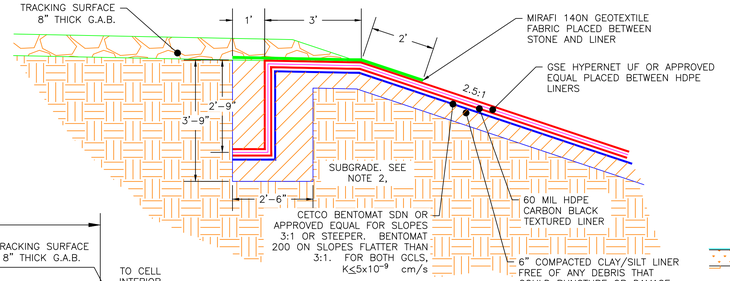
PAC/ASH CELL PERIMETER DITCH AT CLOSURE DETAIL
N.T.S.



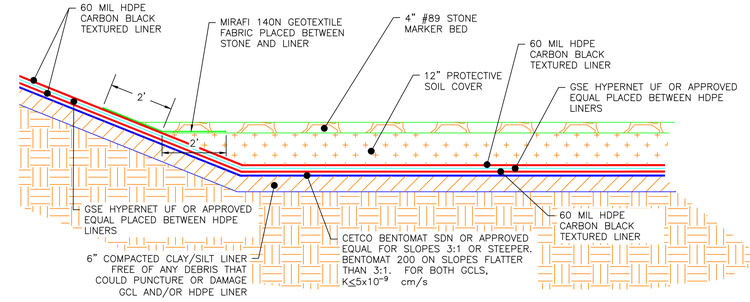
CONCRETE WHEEL WASH PAD CROSS SECTION
N.T.S.



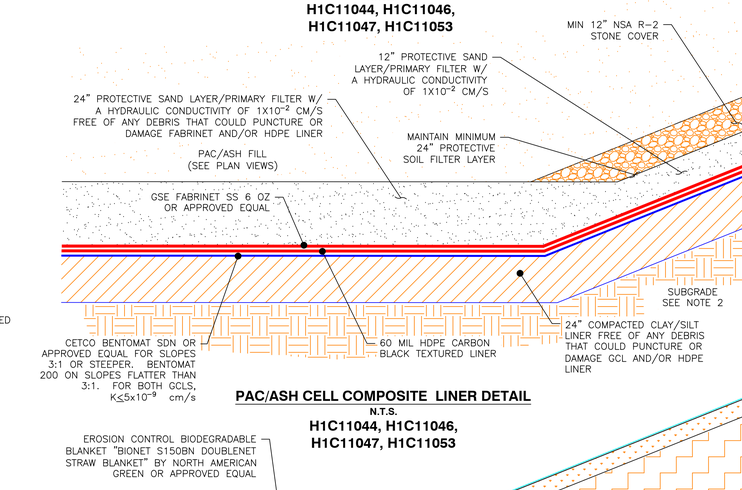
CONCRETE WHEEL WASH PAD DETAIL
N.T.S.



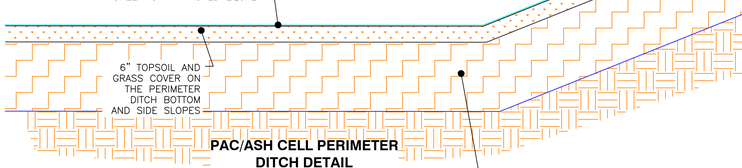
POND @ PAC/ASH CELL ANCHOR TRENCH DETAIL
N.T.S.
H1C11044, H1C11046, H1C11047, H1C11053



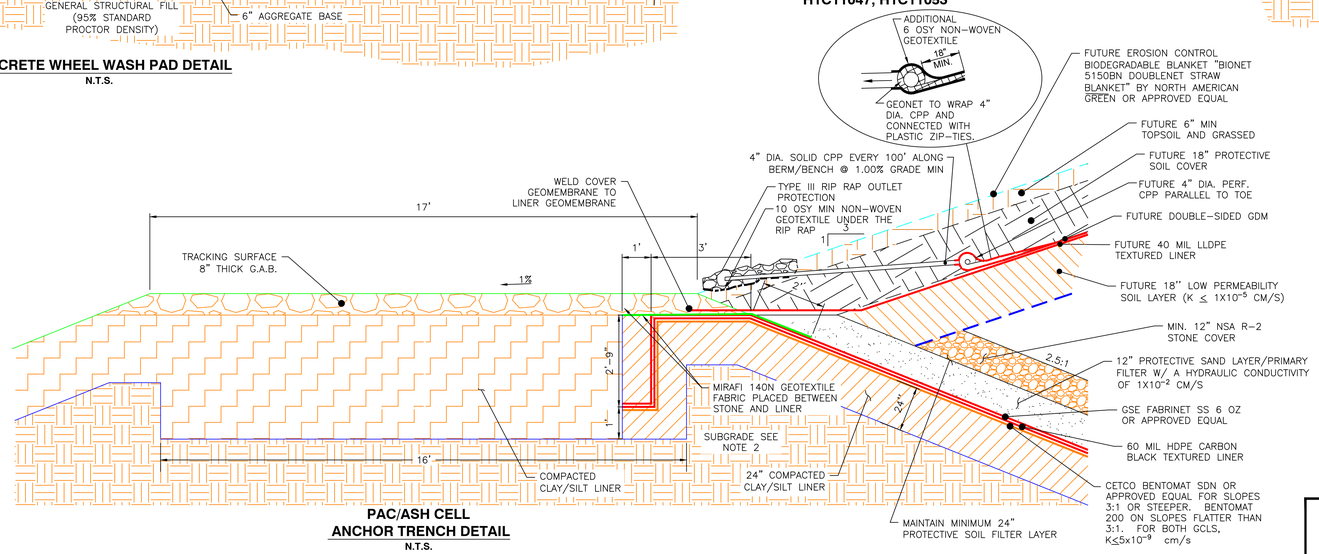
TYPICAL POND @ PAC/ASH CELL DOUBLE LINER DETAIL
N.T.S.
H1C11044, H1C11046, H1C11047, H1C11053



PAC/ASH CELL COMPOSITE LINER DETAIL
N.T.S.
H1C11044, H1C11046, H1C11047, H1C11053



PAC/ASH CELL PERIMETER DITCH DETAIL
N.T.S.
H1C11044, H1C11046, H1C11047, H1C11053



PAC/ASH CELL ANCHOR TRENCH DETAIL
N.T.S.

NOTES:

1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11051 PAC/ASH CELL MISCELLANEOUS SECTIONS
H1C11052 PAC/ASH CELL LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT SHEET 1

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12887 PROFESSIONAL ENGINEER GARY R. McWHORTER 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

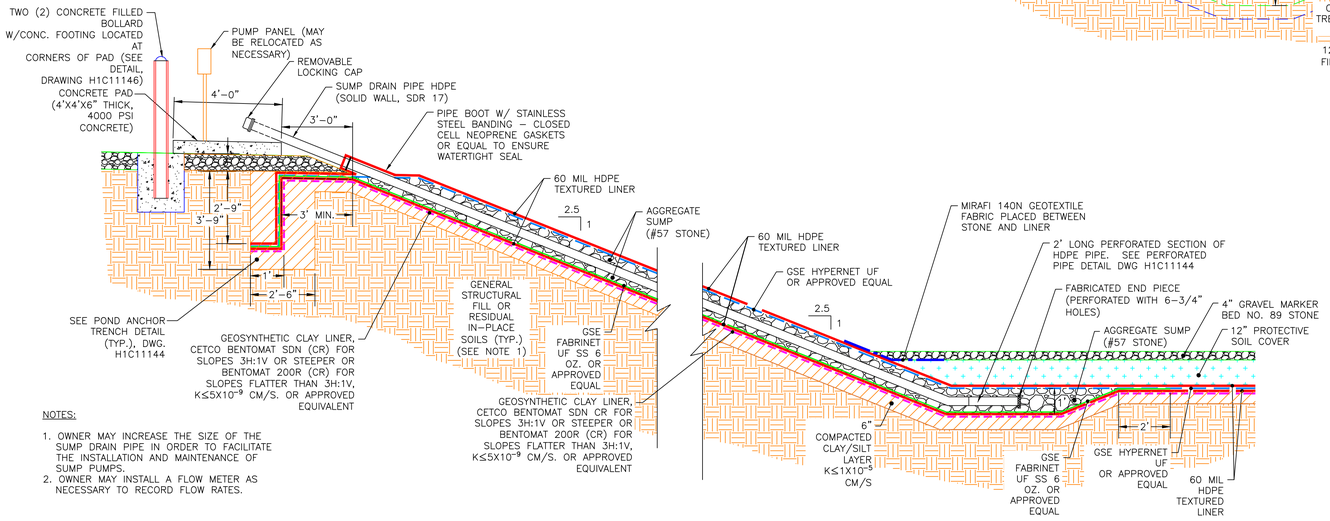
PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 3

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11048	1	FINAL	0

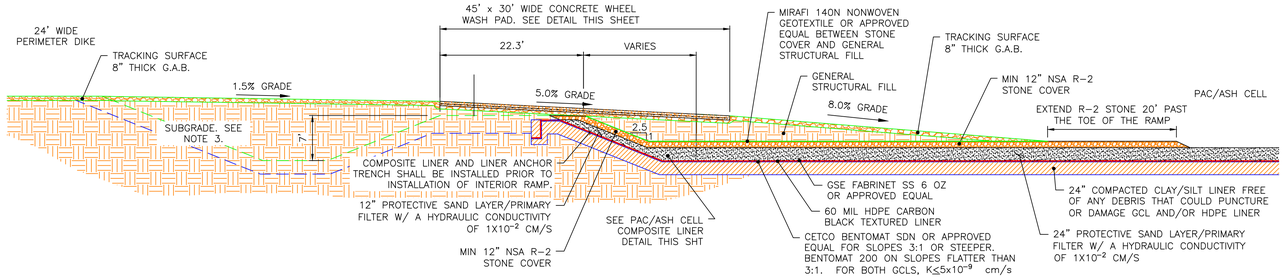
ANSI F: 40x28 Acad2004



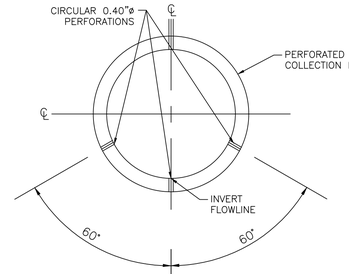
NOTES:

1. OWNER MAY INCREASE THE SIZE OF THE SUMP DRAIN PIPE IN ORDER TO FACILITATE THE INSTALLATION AND MAINTENANCE OF SUMP PUMPS.
2. OWNER MAY INSTALL A FLOW METER AS NECESSARY TO RECORD FLOW RATES.

TYPICAL LEAKAGE DETECTION SUMP DETAIL
N.T.S.
(H1C11042)

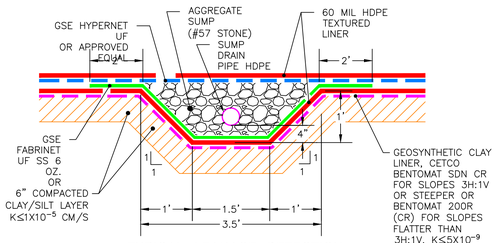


PAC/ASH CELL INTERIOR RAMP PROFILE
N.T.S.

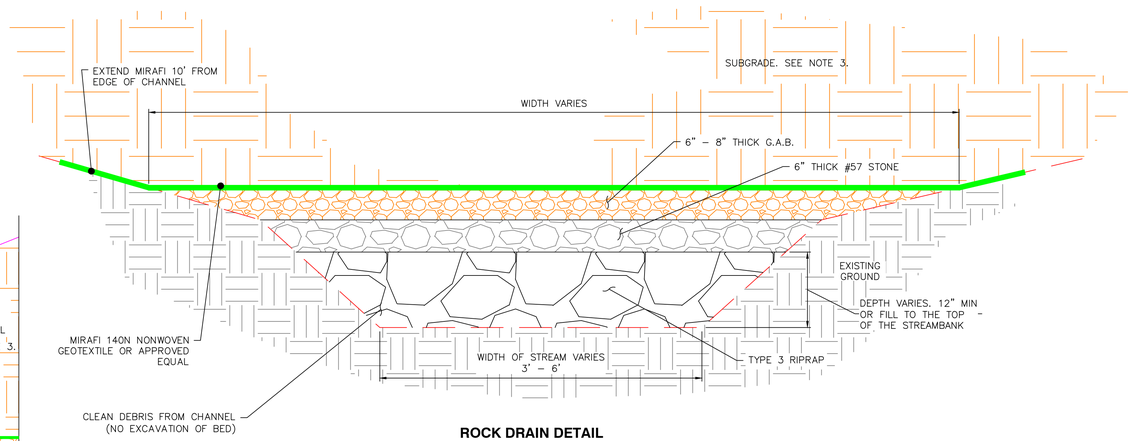


NOTE: AASHTO CLASS I PERFORATION FOR 6"ø PIPE-6 ROWS OF PERFORATIONS REQ'D PER FT-OF-PIPE (18 PER LF OF PIPE OR 36 TOTAL FOR 2' LONG PERFORATED SECTION)

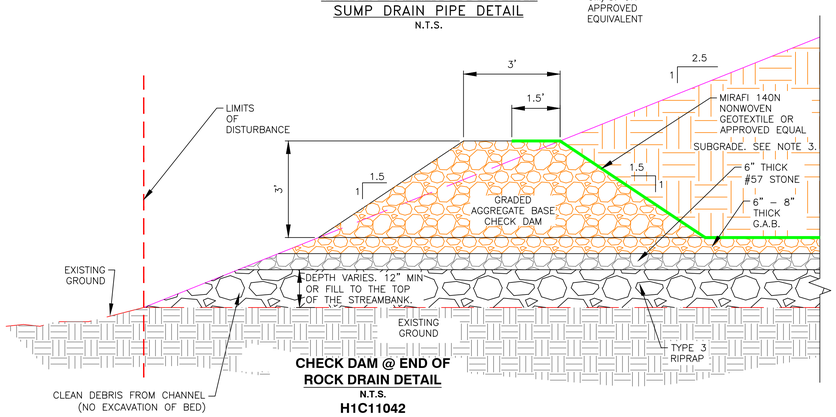
PERFORATED PIPE DETAIL
N.T.S.



TYPICAL LEAKAGE DETECTION SUMP DRAIN PIPE DETAIL
N.T.S.



ROCK DRAIN DETAIL



CHECK DAM @ END OF ROCK DRAIN DETAIL
N.T.S.
H1C11042

NOTES:

1. ALL EARTHEN STRUCTURES ARE ENGINEERED TO WITHSTAND A HORIZONTAL ACCELERATION OF 0.09g
2. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12687 — GARY H. McWHORTER — 10/24/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER — R. BRANT LANE — 10/25/22

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 4

REVISION	DATE
0	10-24-2022

CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11049	1	FINAL	0

ANSI F: 40x28 Acad2004

SEE PLAN OR SHT H1C11048 FOR PERIMETER DITCH DETAIL
EROSION CONTROL BIODEGRADABLE BLANKET "BIONET S150BN DOUBLENET STRAW BLANKET" BY NORTH AMERICAN GREEN OR APPROVED EQUAL
6" TOPSOIL AND GRASS COVER ON THE PERIMETER DITCH BOTTOM AND SIDE SLOPES
2.5:1
36"ø HDPE
FLOW TO SEDIMENTATION POND
PERIMETER DITCH
INV EL. 434.96
FLOWABLE FILL (12' ABOVE & BELOW)
PIPE EXIT @ PERIMETER DITCH DETAIL
N.T.S.
E1C11091
3' MIN (TO ABOVE TOP OF FLOWABLE FILL AS NEEDED)
1' HDPE OVERLAP
SLOPE VARIES
6"
SEE REINFORCING DTL FOR CONCRETE HEADWALL THIS SHT
FLOWABLE FILL (12' ABOVE & BELOW)
DIA. VARIES
SEDIMENTATION POND
3'
1' HDPE OVERLAP
SLOPE VARIES
FLOW
EL. VARIES
SLOPE VARIES
6"
SEE HDPE EMBED CHANNEL DTL THIS SHT (TYP.)
PIPE MAY BE MITERED TO SLOPE DEPENDING ON APPLICATION. SEE APPROPRIATE PIPE SECTION FOR DETAILS.
PIPE EXIT DETAIL
N.T.S.
H1C11047
SEE PLAN OR SECTION FOR APPLICABLE COMPOSITE LINER DTL REFERENCE (TYP.)
SEE PLAN OR SHT H1C11048 FOR APPLICABLE COMPOSITE LINER DTL REFERENCE (TYP.)
2.5:1
1' HDPE OVERLAP
3'
SEE REINFORCING DTL FOR CONCRETE HEADWALL THIS SHT
36"ø HDPE
FLOW TO SEDIMENTATION POND
PAC/ASH CELL INTERIOR
INV EL. 435.27
3'
1' HDPE OVERLAP
FLOWABLE FILL (12' ABOVE & BELOW)
CONCRETE HEADWALL @ PAC/ASH CELL INTERIOR DETAIL
N.T.S.
E1C11091
SEE HDPE EMBED CHANNEL DTL THIS SHT (TYP.)
SEE PLAN OR SHT H1C11047 FOR APPLICABLE COMPOSITE LINER DTL REFERENCE (TYP.)
10'
2' MIN
2' MIN
10'
1:10
36"
36"
36"
36"
36"
1:10
1'
1'
1'
EL. VARIES
EL. VARIES
EL. VARIES
EL. VARIES
EL. VARIES
FLOWABLE FILL
TYPICAL 5 PIPE SECTION
N.T.S.
1' HDPE OVERLAP
EDGE OF CONCRETE HEADWALL
3'
EDGE OF 60 MIL HDPE CARBON BLACK TEXTURED LINER AND GCL
SEE HDPE EMBED CHANNEL DTL THIS SHT (TYP.)
1' HDPE OVERLAP
PIPE FLOW
3'
3'
3'
SINGLE PIPE HEADWALL TYPICAL PLAN @ SEDIMENTATION POND ONLY (2 LOCATIONS)
N.T.S.
1' HDPE OVERLAP
1' HDPE OVERLAP
3'
PIPE FLOW
PIPE FLOW
PIPE FLOW
3'
3'
3'
EDGE OF 60 MIL HDPE CARBON BLACK TEXTURED LINER AND GCL
EDGE OF CONCRETE HEADWALL
1' HDPE OVERLAP
3 PIPE HEADWALL TYPICAL PLAN @ SEDIMENTATION POND
N.T.S.
1'
1:10
DIA. VARIES
1:10
1'
1'
EL. VARIES
FLOWABLE FILL
TYPICAL SINGLE PIPE SECTION
N.T.S.
1' HDPE OVERLAP
1' HDPE OVERLAP
3'
PIPE FLOW
PIPE FLOW
PIPE FLOW
3'
3'
3'
EDGE OF 60 MIL HDPE CARBON BLACK TEXTURED LINER AND GCL
BEND IN CONCRETE HEADWALL @ CELL BOTTOM. SEE CONCRETE HEADWALL @ PAC/ASH CELL INTERIOR DETAIL THIS SHEET.
EDGE OF CONCRETE HEADWALL
1' HDPE OVERLAP
3 PIPE HEADWALL TYPICAL PLAN @ CELL INTERIOR
N.T.S.
6"
CONCRETE
CONCRETE
SEE PLAN OR SECTION FOR APPLICABLE COMPOSITE LINER DTL REFERENCE (TYP.)
FIELD EXTRUSION WELD
GSE POLYLOCK EMBED CHANNEL INSTALLATION DETAIL
N.T.S.
H1C11047 & H1C11053
NOTE:
EMBED CHANNELS ARE TO BE WELDED TOGETHER LONGITUDINALLY TO ENSURE NO LEAKING WHERE THE LINER CONNECTS TO THE CONCRETE.
GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens
VARIES
#4 @ 12" O.C. (TYP.)
#4 @ 12" O.C. (TYP.)
6"
6"
NOTE:
CONTINUE REINFORCEMENT ACROSS FLAT PORTION OF HEADWALL. SEE CONCRETE HEADWALL @ PAC/ASH CELL INTERIOR DETAIL THIS SHEET.
REINFORCING DETAIL FOR CONCRETE HEADWALL
N.T.S.
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27185 R. BRANT LANE
10/25/22

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

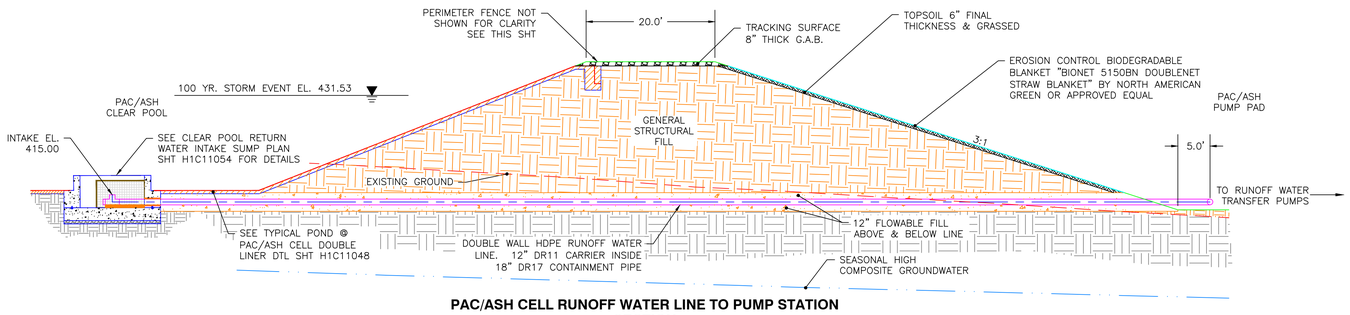
PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 5

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

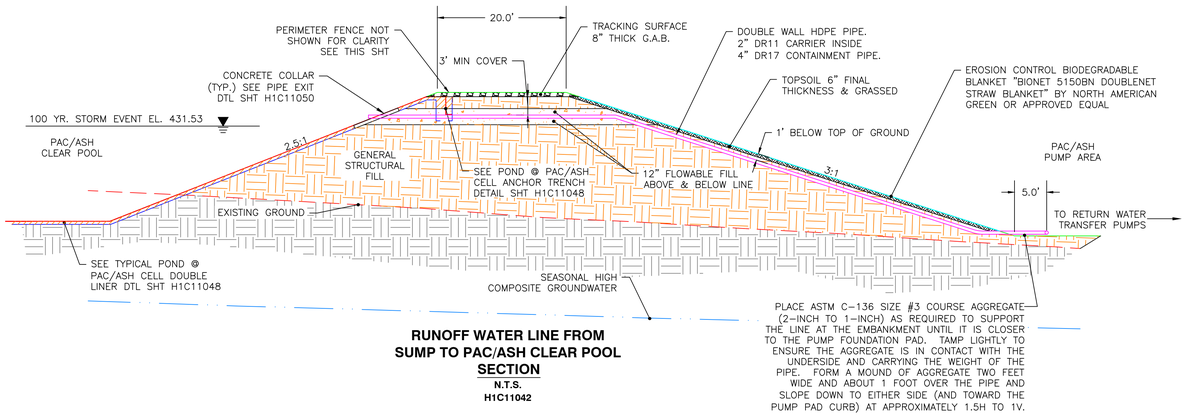
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR	RBL					

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11050	1	FINAL	0

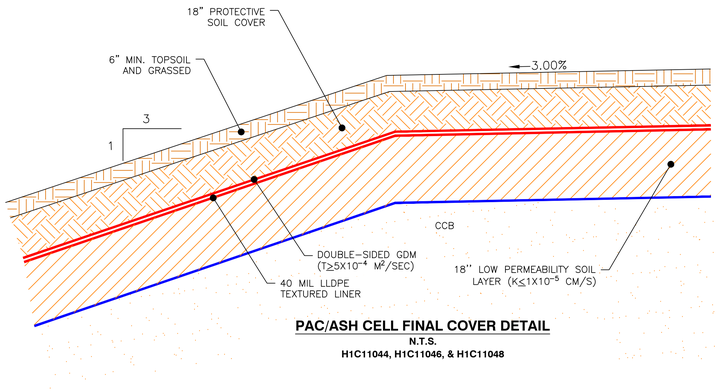
ANSI F: 40x28 Acad2004



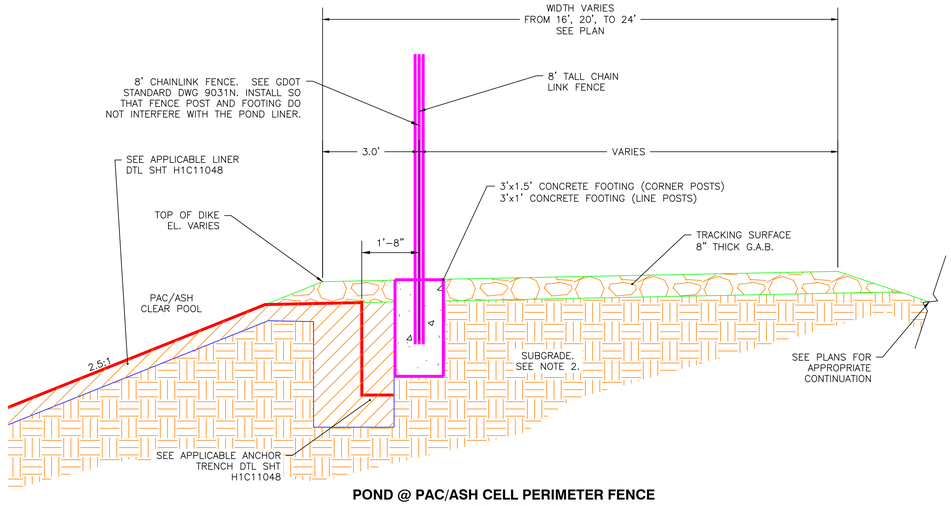
PAC/ASH CELL RUNOFF WATER LINE TO PUMP STATION SECTION
N.T.S.
H1C11042



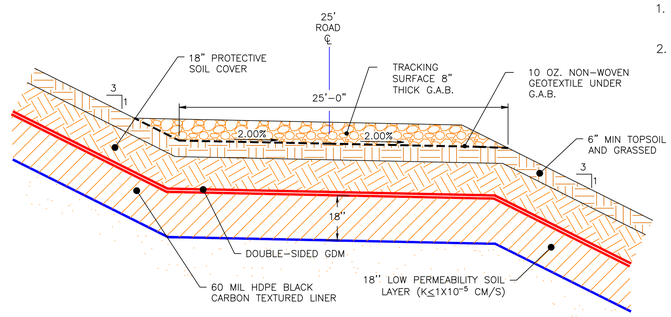
RUNOFF WATER LINE FROM SUMP TO PAC/ASH CLEAR POOL SECTION
N.T.S.
H1C11042



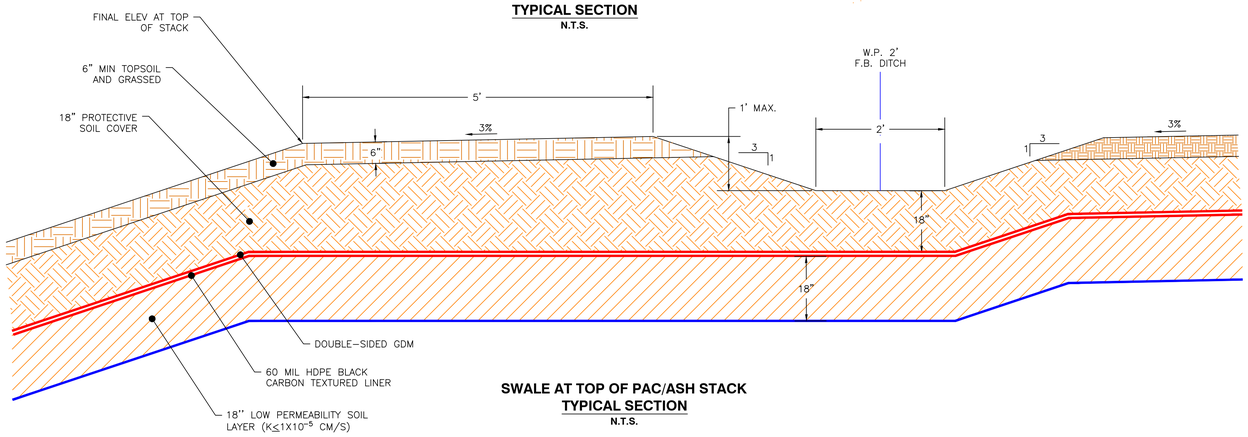
PAC/ASH CELL FINAL COVER DETAIL
N.T.S.
H1C11044, H1C11046, & H1C11048



POND @ PAC/ASH CELL PERIMETER FENCE TYPICAL SECTION
N.T.S.
H1C11042 & H1C11047



RAMP AT PAC/ASH STACK TYPICAL SECTION
N.T.S.



SWALE AT TOP OF PAC/ASH STACK TYPICAL SECTION
N.T.S.

NOTES:

1. G.A.B. WILL BE PER GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. THESE SECTIONS REPRESENT TYPICAL CONFIGURATIONS FOR THE CELLS, PERIMETER DITCH, AND SEDIMENTATION BASINS. ACTUAL CONDITIONS WILL VARY TO INCLUDE BOTH CUT AND FILL AREAS, THEREFORE, THE SUBGRADE MATERIAL FOR THE CLAY LINER COULD CONSIST OF EITHER RESIDUAL, IN-PLACE SOILS OR GENERAL STRUCTURAL FILL. REFERENCE THE CONSTRUCTION QUALITY ASSURANCE PLAN AND THE CONSTRUCTION TECHNICAL SPECIFICATIONS FOR PROOF-ROLLING CRITERIA FOR IN-PLACE SOILS AND THE PLACEMENT AND COMPACTION CRITERIA FOR GENERAL STRUCTURAL FILL.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12067 PROFESSIONAL ENGINEER — 10/26/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE — 10/25/22

REFERENCES
H1C11000 – TITLE SHEET & DRAWING INDEX
H1C11048 – PAC/ASH CELL MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11050 – PAC/ASH CELL MISCELLANEOUS SECTIONS AND DETAILS, SHEET 5
H1C11053 – PAC/ASH CELL RUNOFF WATER INTAKE PLAN & SECTIONS

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PAC/ASH CELL
MISCELLANEOUS SECTIONS & DETAILS
SHEET 6

REVISION	DATE
0	10-24-2022
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11051	1	FINAL	0

ANSI F: 40x28 Acad2004

NOTES:

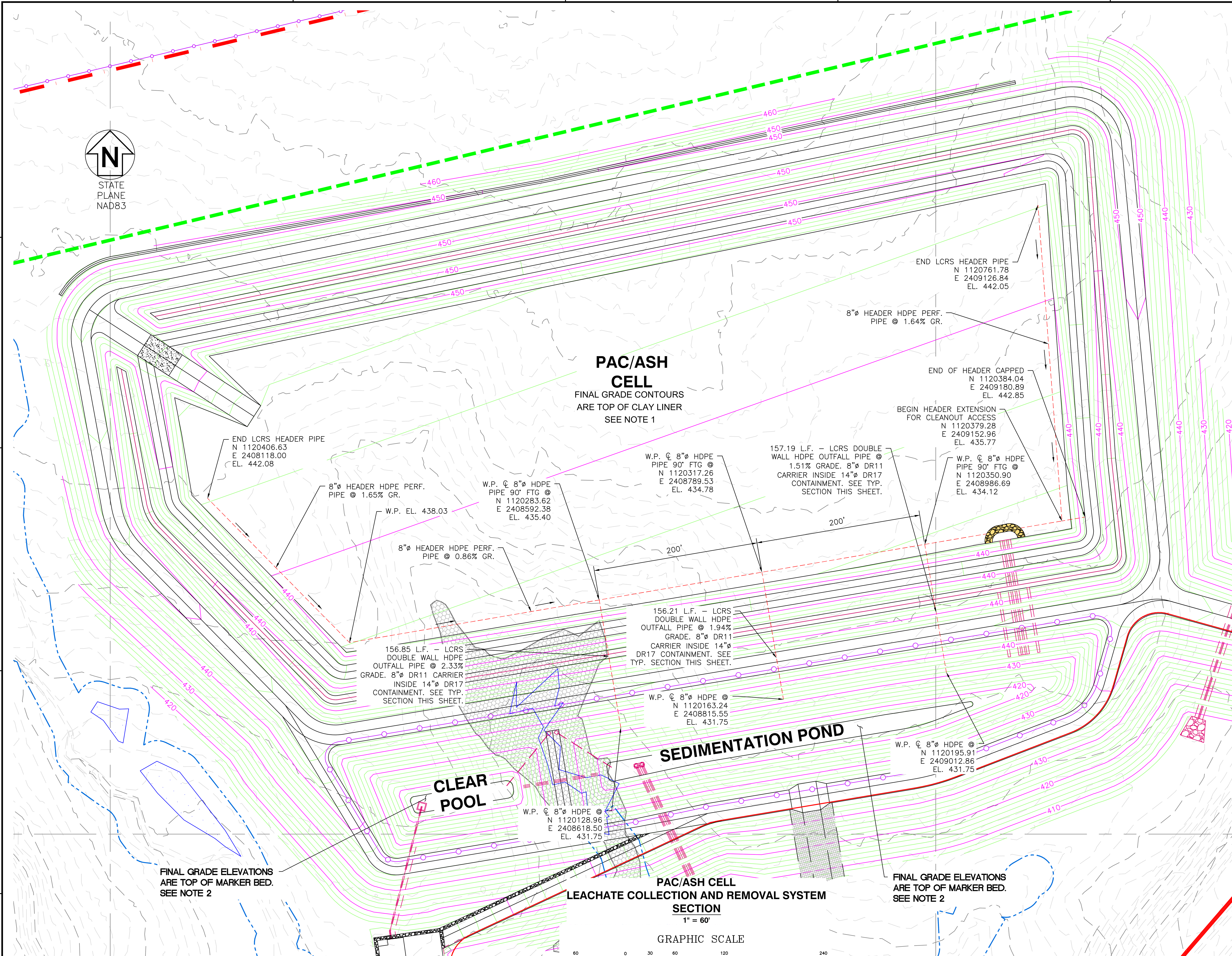
1. FINAL GRADE CONTOURS SHOWN IN CELL AND PERIMETER DITCH ARE TOP OF CLAY LINER
2. FINAL GRADE ELEVATIONS SHOWN IN BOTTOM OF PONDS ARE TOP OF MARKER BED. FINAL GRADES OF SIDE SLOPES OF THE PONDS ARE TOP OF CLAY LINER
3. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS
4. ALL LCRS COLLECTOR AND OUTFALL PIPES SHALL BE SMOOTH WALL HDPE AND MAXIMUM RATED SDR-13.5. COLLECTOR PIPES SHALL BE PERFORATED. OUTFALL PIPES PENETRATING THE LINER AND RUNNING THROUGH DIKE EMBANKMENT SHALL BE DOUBLE WALL HDPE PIPES 8" DIA DR11 CARRIER INSIDE 14" DIA DR17 CONTAINMENT HDPE PIPE.
5. PERFORATIONS SHALL BE AASHTO CLASS 1 PERFORATIONS – 3 ROWS OF PERFORATIONS REQ'D (A TOTAL OF 6 PER FT OF PIPE). EACH PERFORATION SHALL BE 0.4" DIA CIRCULAR AT 60 DEGREES OFF CENTERLINE OF BOTTOM OF PIPE.
6. FOR COMPOSITE LINER DETAIL FOR PAC ASH CELL, SEE SHEET H1C11048.
7. SEE BASE GRADING PLAN SHEET FOR GRADE ELEVATIONS AND STORM INLET STRUCTURE ELEVATIONS
8. ALL PIPE FITTINGS SHALL BE FIELD VERIFIED AND APPROVED BY THE PCM PRIOR TO INSTALLATION
9. ALL LINES SHOW ARE THE CENTERLINE OF THE COLLECTION SUMP

LEGEND:

- LCRS PIPES
- EXISTING GROUND CONTOURS
- FINAL GRADE CONTOURS
- ROCK DRAIN
- SLOPE PROTECTION

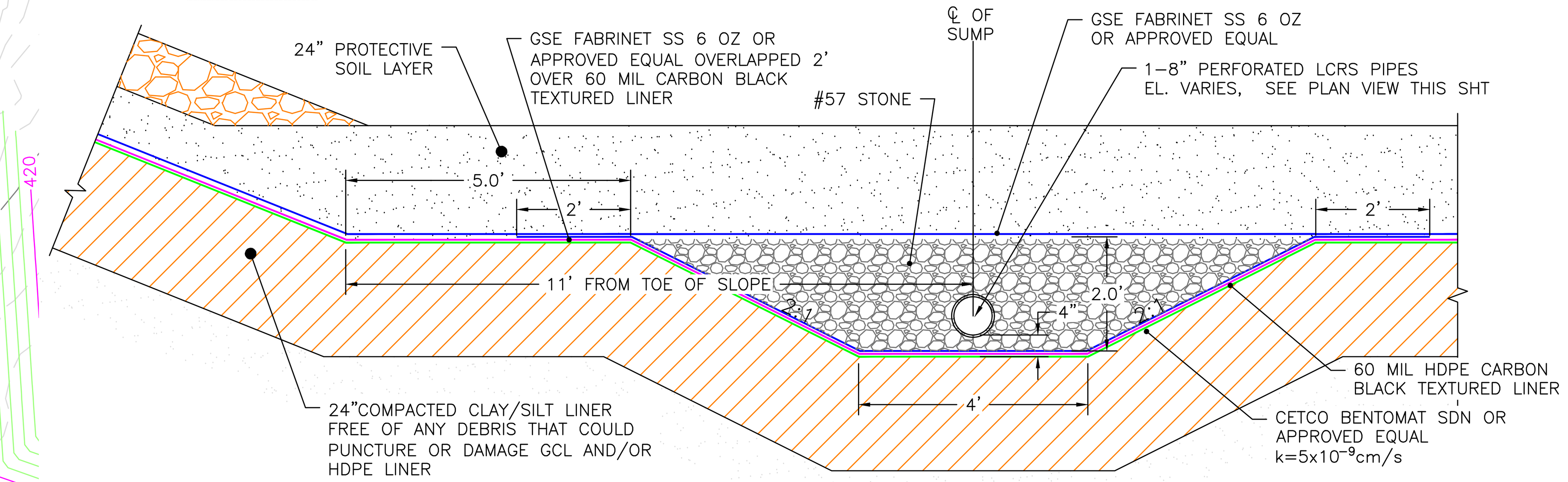
REFERENCES:

H1C11000 TITLE SHEET AND DRAWING INDEX
H1C11048 PAC/ASH CELL, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11050 PAC/ASH CELL, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 5

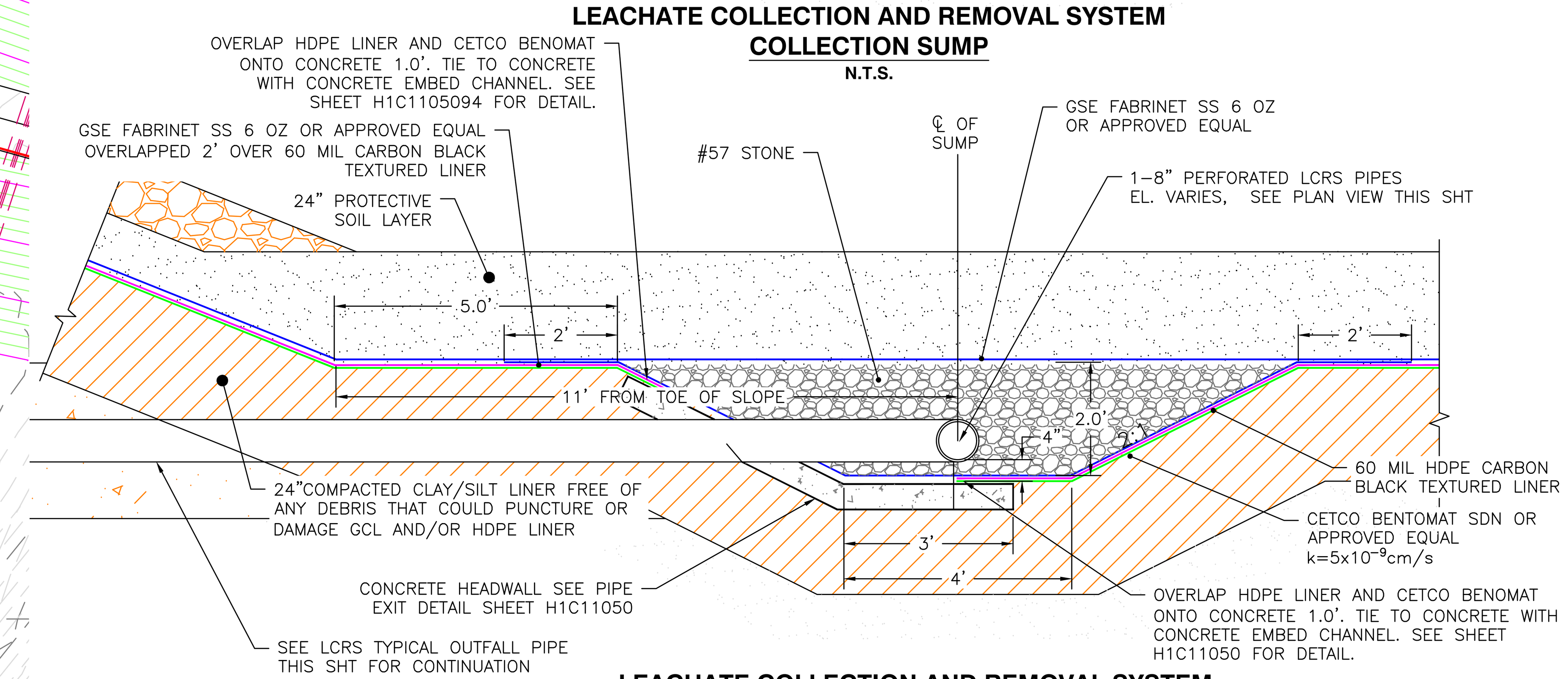


PAC/ASH CELL
LEACHATE COLLECTION AND REMOVAL SYSTEM
SECTION
1" = 60'

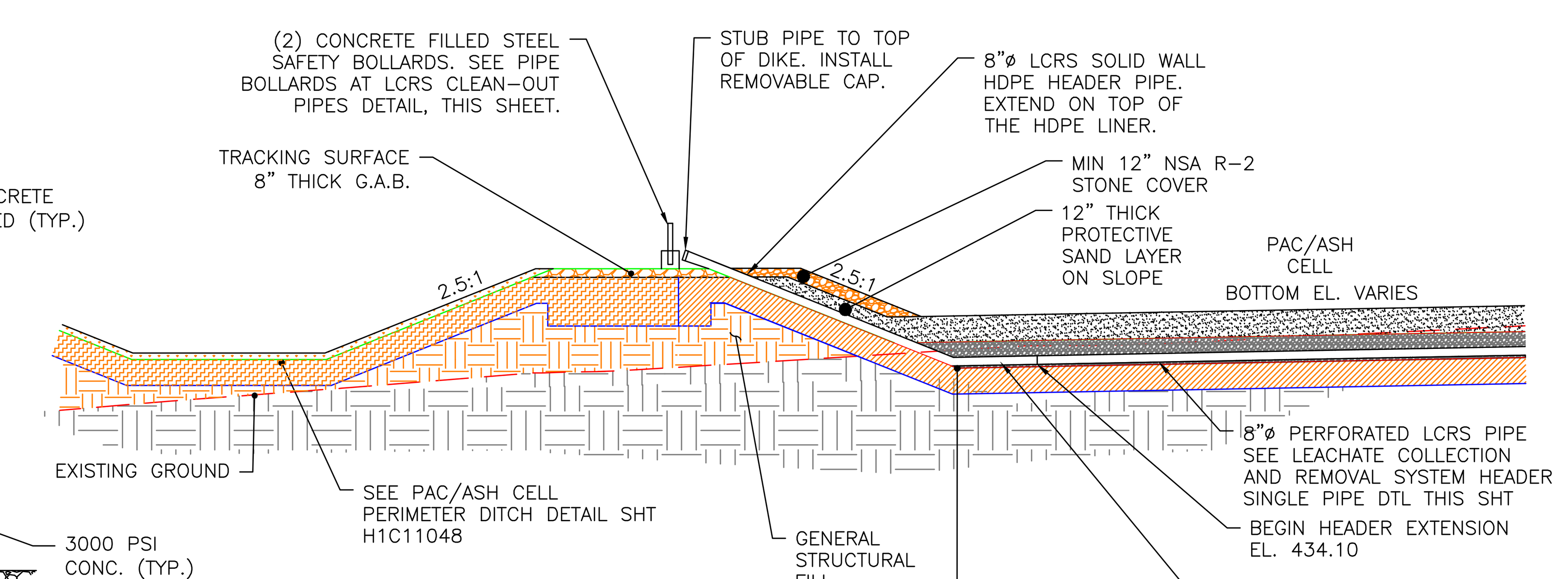
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.



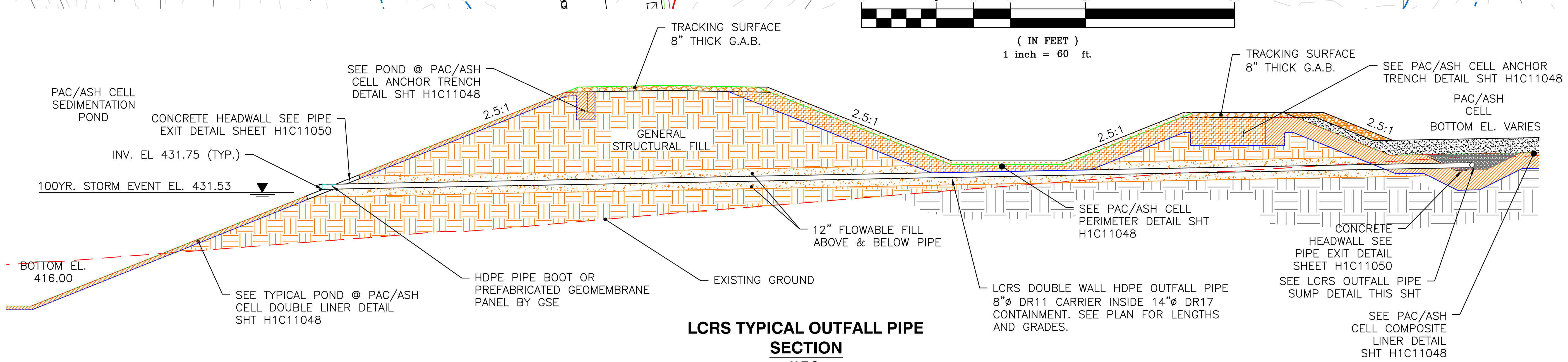
LEACHATE COLLECTION AND REMOVAL SYSTEM
COLLECTION SUMP
N.T.S.



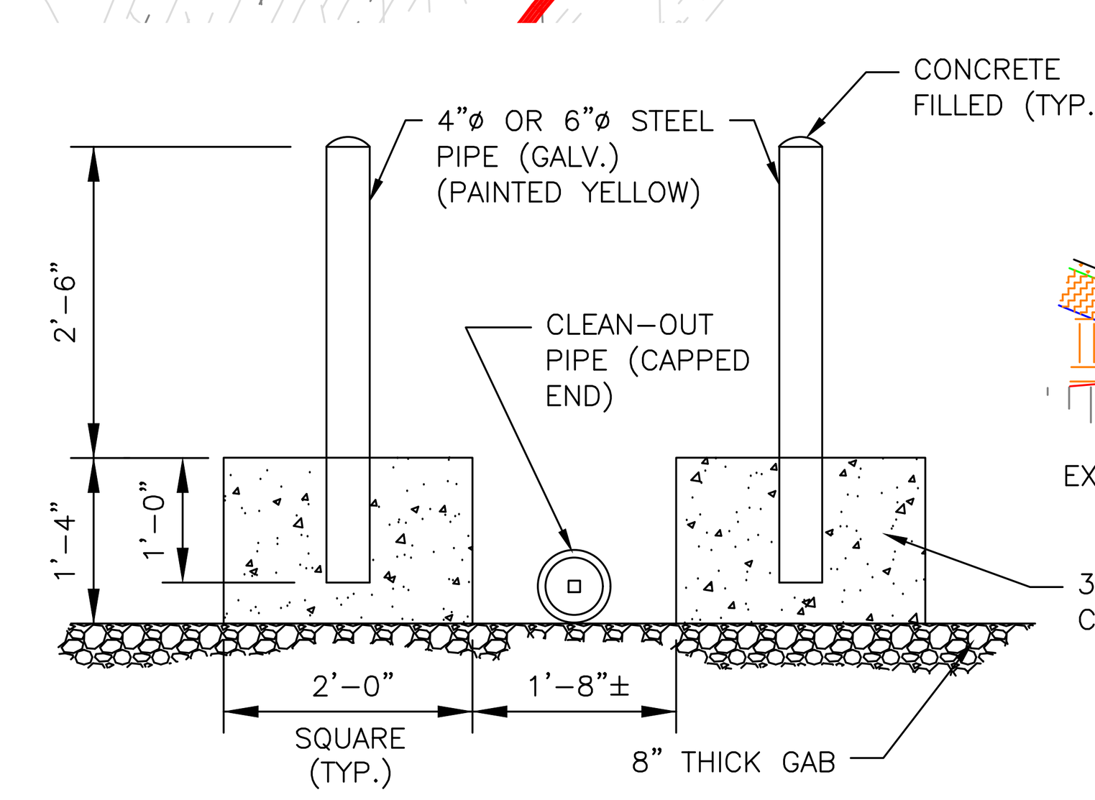
LEACHATE COLLECTION AND REMOVAL SYSTEM
OUTFALL SUMP DETAIL
N.T.S.



LCRS HEADER EXTENSION PIPE
SECTION
N.T.S.



LCRS TYPICAL OUTFALL PIPE
SECTION
N.T.S.



PIPE BOLLARDS AT LCRS CLEAN-OUT PIPES DETAIL
N.T.S.

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 12987 GARY H. McWHORTER 10/25/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27185 R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 10-24-2022
								CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]	

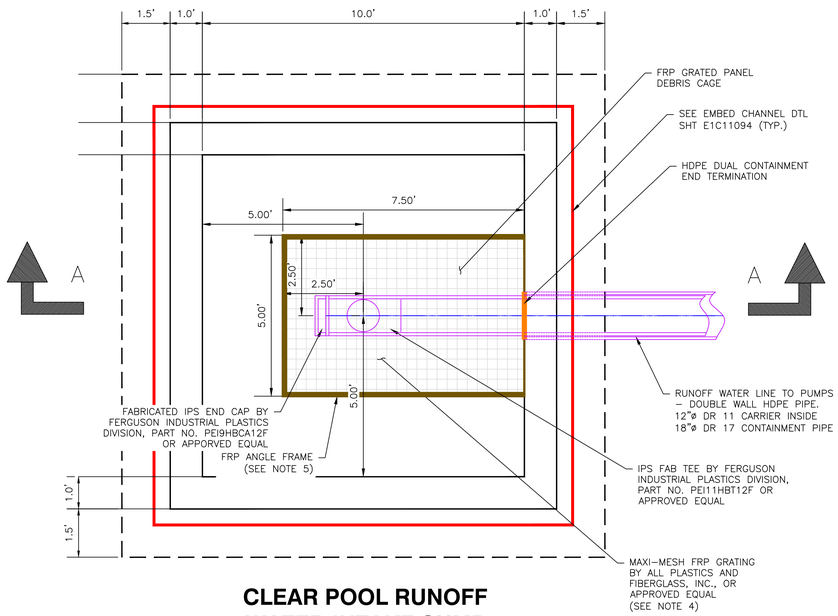
BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
ANR		RBL				

Southern Company Generation Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY-PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
LEACHATE COLLECTION AND REMOVAL SYSTEM LAYOUT

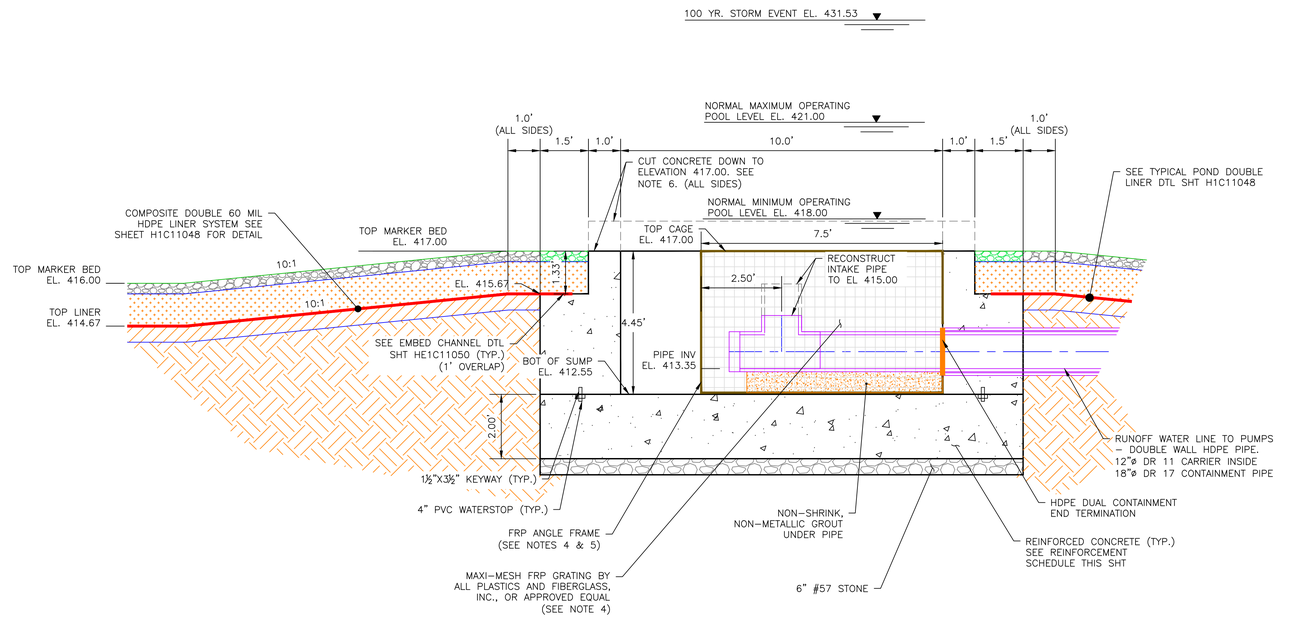
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11052	1	FINAL	0

ANSI F: 40x28 Acad2004



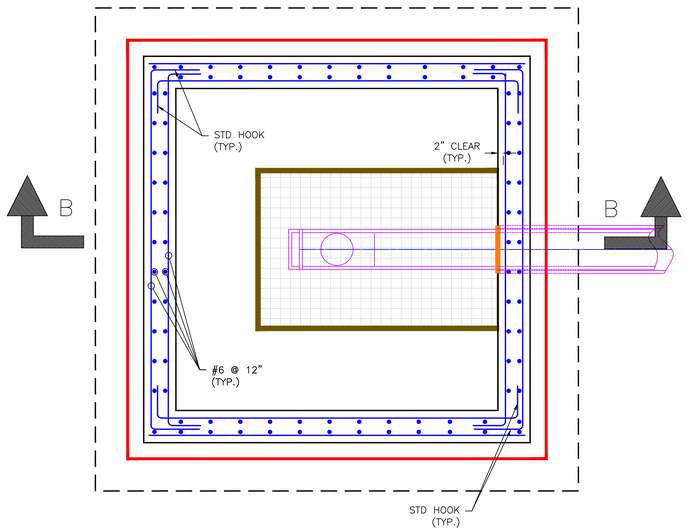
CLEAR POOL RUNOFF WATER INTAKE SUMP PLAN

1" = 2'



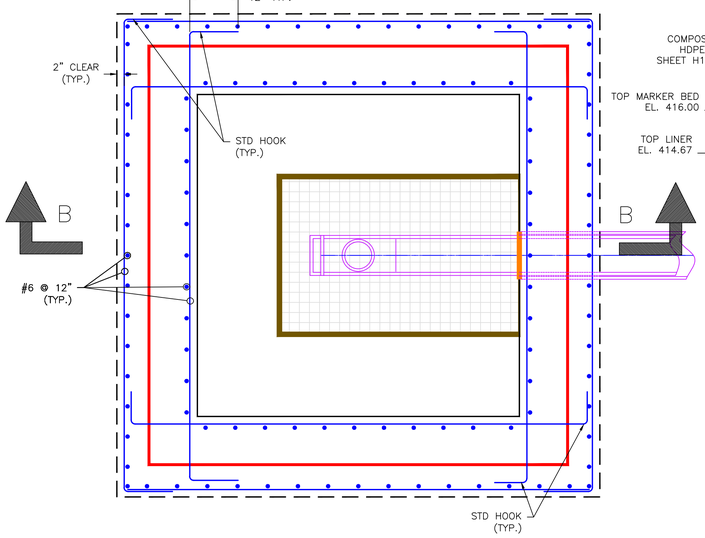
SECTION A-A

1" = 2'



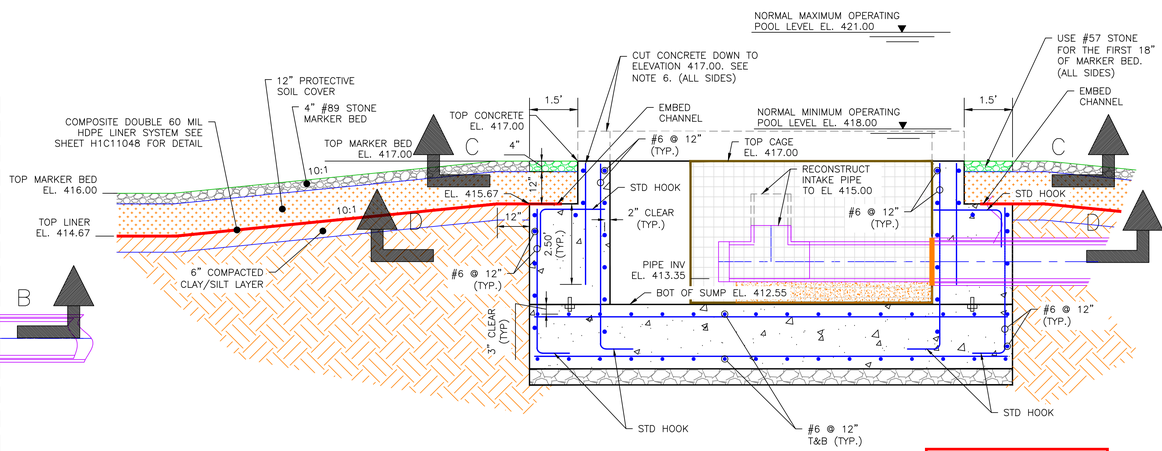
CLEAR POOL RUNOFF WATER INTAKE SUMP WALL REINFORCEMENT PLAN THROUGH SECTION C-C

1" = 2'



CLEAR POOL RUNOFF WATER INTAKE SUMP FOUNDATION REINFORCEMENT PLAN THROUGH SECTION D-D

1" = 2'



SECTION B-B

1" = 2'

NOTES:

1. CLEAR POOL OPERATING LEVELS
   – MAX OPERATING LEVEL 421.00 (PUMPS ON)
   – MIN OPERATING LEVEL 418.00 (PUMPS OFF)
2. ALL CONCRETE AND METAL USED IN RETURN WATER INTAKE SUMP SHALL BE COATED WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS & CHEMICALS, INC. OR APPROVED EQUAL.
3. GRID DIMENSIONS FOR MAXI–MESH FRP GRATING ARE:
   – 1¼" THICK, 1"X1" SQUARE GRID CENTERLINE TO CENTERLINE
   – BEARING BARS AND CROSS BARS ¾" THICK
   – OPEN, CLEAR DIMENSION OF ONE GRID – ¾"x¾"
4. DEBRIS CAGE TO BE CONSTRUCTED WITH FRP GRATING PANELS AND 4"x4"x½" FRP VINYLESTER ANGLES (INSIDE & OUT) BY ALL PLASTICS AND FIBERGLASS, INC. MAXI–MESH PANELS TO BE ATTACHED TO FRAME BY STAINLESS STEEL BOLTS AND HARDWARE AT 18" O.C. GRATING PANELS TO BE JOINED PER MANUFACTURER'S SPECIFICATIONS.
5. DEBRIS CAGE TO BE FASTENED TO CONCRETE FLOOR AND SIDE WALLS BY STAINLESS STEEL BOLTS AND HARDWARE.
6. AFTER CUTTING TOP OF SUMP WALL DOWN TO EL 417.00, RECOAT ALL CUT CONCRETE AND EXPOSED REBAR WITH CHEMPRUF 2410 LINING SYSTEM BY ATLAS MINERALS AND CHEMICALS, INC OR APPROVED EQUAL. PREPARE SURFACE TREATMENT AS REQUIRED BY MANUFACTURER'S GUIDELINES AND INSTRUCTIONS PRIOR TO COATING.

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

GEORGIA REGISTERED No. 12982 PROFESSIONAL Engineer CORY N. McWHORTER 10/18/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REFERENCES
H1C11048 PAC/ASH, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 3
H1C11050 PAC/ASH, MISCELLANEOUS SECTIONS AND DETAILS, SHEET 5

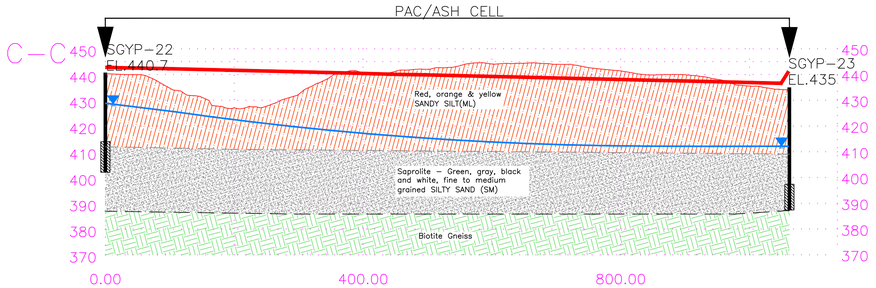
Southern Company Services, Inc.
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL COMBUSTION BY–PRODUCT DISPOSAL FACILITY
PAC/ASH CELL
RUNOFF WATER INTAKE PLAN & SECTIONS

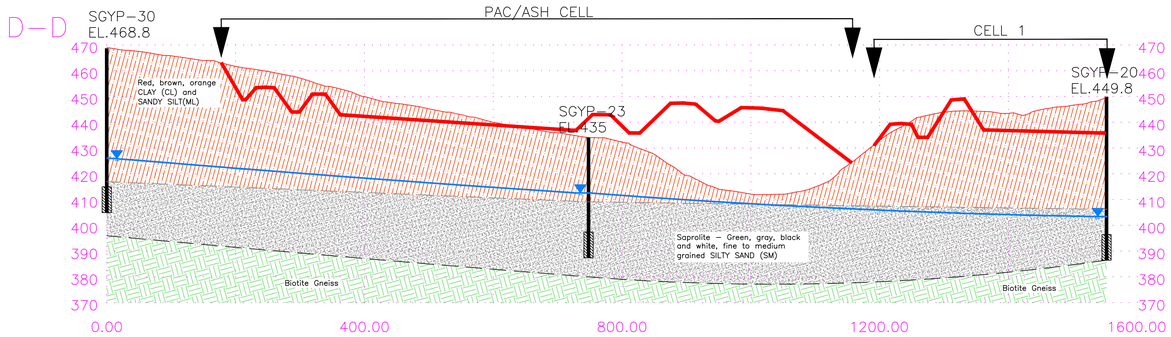
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
0	10–24–2022	ANR		RBL				
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]								

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS NOTED	010505	H1C11053	1	FINAL	0

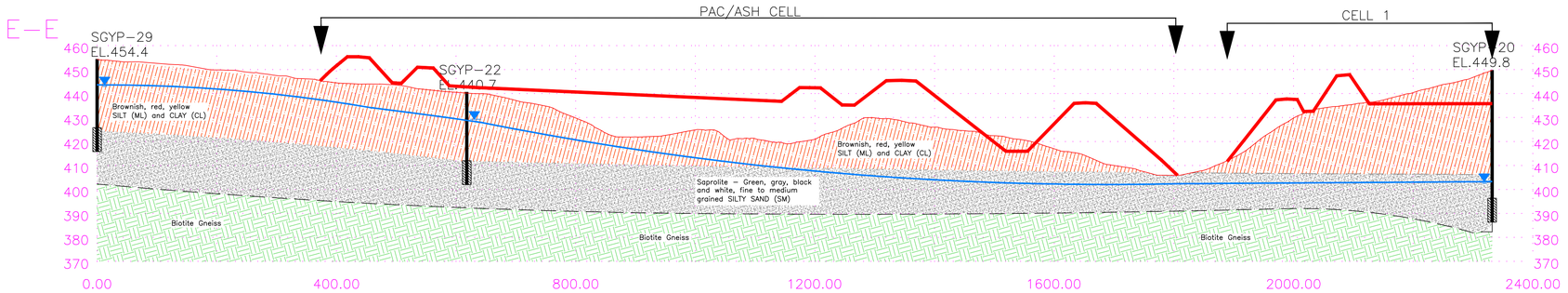
ANSI F: 40x28 Acad2004



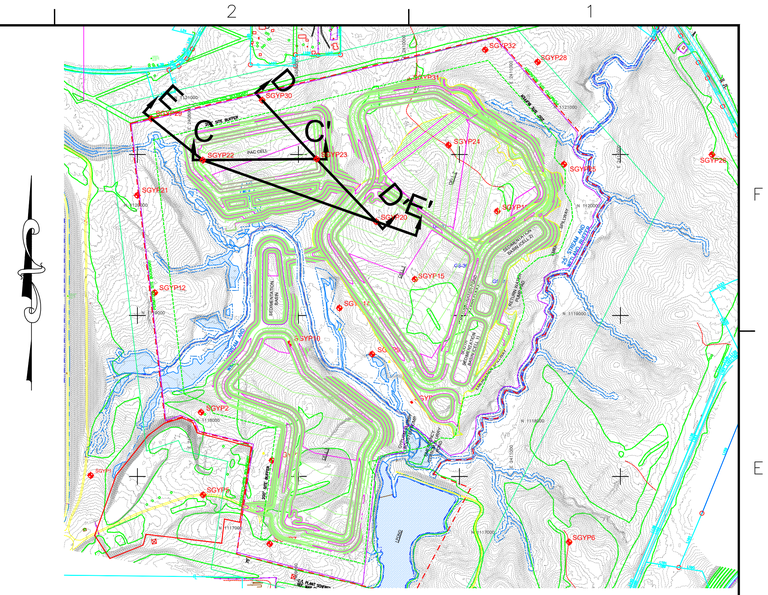
SECTION C–C'
SCALE:
1"=25' VERT
1"=100' HORZ



SECTION D–D'
SCALE:
1"=25' VERT
1"=100' HORZ



SECTION E–E'
SCALE:
1"=25' VERT
1"=100' HORZ



GRAPHIC SCALE
600 0 300 600 1200 1800
(IN FEET)
1 inch = 600 ft.

LEGEND:
HIGH WATER ELEVATIONS
BASE GRADE OF WASTE DISPOSAL CELLS

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 10:13:44 -04'00'

The information provided on this drawing was originally prepared by qualified groundwater scientists at Southern Company Generation Engineering and Construction Services in April 2010 in support of the Industrial Solid Waste Permit 102-009D(LI). The drawing was subsequently modified with final approval from EPD occurring in May 2011. All noted submittals were sealed by a professional engineer and professional geologist licensed in the state of Georgia. The information on this sheet is provided for reference only and has not been amended by Hodges, Harbin, Newberry and Tribble, Inc. or Bunnell Lammons Engineering, Inc.

ANDREW W. ALEXANDER No.1485 GEORGIA REGISTERED PROFESSIONAL GEOLOGIST 10/25/22

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION	DATE	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
REVISION 0	DATE 10-24-2022	BY	CHK'D	CIVIL APPR	ELECT APPR	I/C APPR	MECH APPR	DISC MGR
CCR LANDFILL PERMIT APPLICATION [BY HHNT, INC.]		ANR		RBL				

Southern Company Generation
Engineering and Construction Services
FOR
Georgia Power Company

PLANT SCHERER
COAL PAC/ASH CELL COMBUSTION BY-PRODUCT DISPOSAL FACILITY, GEOLOGIC SECTIONS C-C', D-D' AND E-E'

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
AS SHOWN	010505	**H1C11054**	1	FINAL	0

ANSI F: 40x28 Acad2008

BENCHMARKS			
BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
2429DGPS	1121395.730	2407630.407	454.322
2429FGPS	1121025.679	2413114.358	431.256
2429HGPS	1120155.358	2413549.744	434.150
2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

PERMITTED SITE BOUNDARY

200' BUFFER LINE

100 YEAR FLOODPLAIN (TYP.)

EXISTING PAC/ASH CELL CLEAR POOL

EXISTING PAC/ASH CELL SEDIMENTATION POND

STREAM (TYP.)

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

EXISTING CELL 1

EXISTING I POND

E 1 6

F 1 6

NOTES:

1. TOPOGRAPHIC INFORMATION, PERMITTED SITE BOUNDARY & BUFFER LINE INFORMATION PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. LAST REVISED OCTOBER 15, 2007.
2. LOCATIONS OF STREAMS & WETLANDS WERE PROVIDED BY GEORGIA POWER ON AUGUST 17, 2017 IN A FILE NAMED "PLANT_SCHERER_CELL3.DXF"
3. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION.
4. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED MAY 8, 2015.
5. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA LETTER OF MAP REVISION REQUEST, DATED DECEMBER 21, 2017.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 10:13:48 -04'00'

100 50 0 100 200
GRAPHIC SCALE IN FEET

Georgia Power

EXISTING TOPOGRAPHIC CONDITIONS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-TP	EDIT 06/14/2022
SCALE	1" = 100'	SHEET	H1C11056
DATE	OCTOBER 2022		

BENCHMARKS

BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
2429DGPS	1121395.730	2407630.407	454.322
2429FGPS	1121025.679	2413114.358	431.256
2429HGPS	1120155.358	2413549.744	434.150
2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

DRAINAGE STRUCTURES

PIPE NO.	SIZE	LENGTH	SLOPE	MATERIAL	INLET INV.	OUTLET INV.
101	36"	89'	0.80%	HDPE	430.71	430.00
102	4 - 36"	56'	0.71%	HDPE	413.50	413.10
103	4 - 36"	56'	0.71%	HDPE	413.50	413.10
200	36"	147'	8.84%	HDPE	405.00	392.00

HEADWALL NO.	INVERT
200	392.00

NON-LEACHATE STORMWATER POND DATA

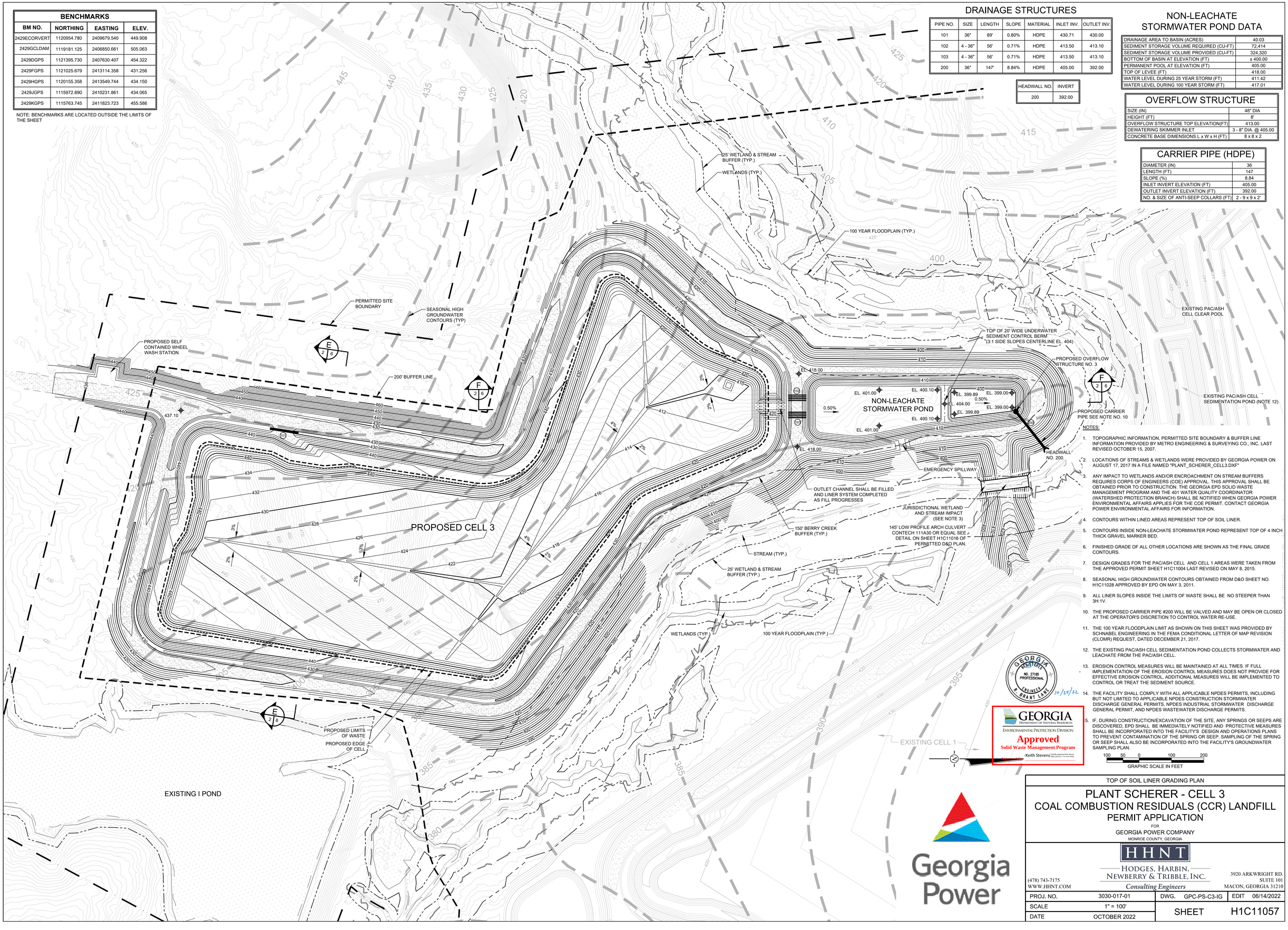
DRAINAGE AREA TO BASIN (ACRES)	40.03
SEDIMENT STORAGE VOLUME REQUIRED (CU-FT)	72,414
SEDIMENT STORAGE VOLUME PROVIDED (CU-FT)	324,320
BOTTOM OF BASIN AT ELEVATION (FT)	± 400.00
PERMANENT POOL AT ELEVATION (FT)	405.00
TOP OF LEVEE (FT)	418.00
WATER LEVEL DURING 25 YEAR STORM (FT)	411.42
WATER LEVEL DURING 100 YEAR STORM (FT)	417.01

OVERFLOW STRUCTURE

SIZE (IN)	48" DIA
HEIGHT (FT)	8'
OVERFLOW STRUCTURE TOP ELEVATION(FT)	413.00
DEWATERING SKIMMER INLET	3 - 8" DIA. @ 405.00
CONCRETE BASE DIMENSIONS L x W x H (FT)	8 x 8 x 2

CARRIER PIPE (HDPE)

DIAMETER (IN)	36
LENGTH (FT)	147
SLOPE (%)	8.84
INLET INVERT ELEVATION (FT)	405.00
OUTLET INVERT ELEVATION (FT)	392.00
NO. & SIZE OF ANTI-SEEP COLLARS (FT)	2 - 9 x 9 x 2'



NOTES:

1. TOPOGRAPHIC INFORMATION, PERMITTED SITE BOUNDARY & BUFFER LINE INFORMATION PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. LAST REVISED OCTOBER 15, 2007.
2. LOCATIONS OF STREAMS & WETLANDS WERE PROVIDED BY GEORGIA POWER ON AUGUST 17, 2017 IN A FILE NAMED "PLANT_SCHERER_CELL3.DXF"
3. ANY IMPACT TO WETLANDS AND/OR ENCROACHMENT ON STREAM BUFFERS REQUIRES CORPS OF ENGINEERS (COE) APPROVAL. THIS APPROVAL SHALL BE OBTAINED PRIOR TO CONSTRUCTION. THE GEORGIA EPD SOLID WASTE MANAGEMENT PROGRAM AND THE 401 WATER QUALITY COORDINATOR (WATERSHED PROTECTION BRANCH) SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR THE COE PERMIT. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR INFORMATION.
4. CONTOURS WITHIN LINED AREAS REPRESENT TOP OF SOIL LINER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED ON MAY 8, 2015.
8. SEASONAL HIGH GROUNDWATER CONTOURS OBTAINED FROM D&O SHEET NO. H1C11028 APPROVED BY EPD ON MAY 3, 2011.
9. ALL LINER SLOPES INSIDE THE LIMITS OF WASTE SHALL BE NO STEEPER THAN 3H:1V.
10. THE PROPOSED CARRIER PIPE #200 WILL BE VALVED AND MAY BE OPEN OR CLOSED AT THE OPERATOR'S DISCRETION TO CONTROL WATER RE-USE.
11. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.
12. THE EXISTING PAC/ASH CELL SEDIMENTATION POND COLLECTS STORMWATER AND LEACHATE FROM THE PAC/ASH CELL.
13. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE EROSION CONTROL MEASURES DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
14. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.
15. IF, DURING CONSTRUCTION/EXCAVATION OF THE SITE, ANY SPRINGS OR SEEPS ARE DISCOVERED, EPD SHALL BE IMMEDIATELY NOTIFIED AND PROTECTIVE MEASURES SHALL BE INCORPORATED INTO THE FACILITY'S DESIGN AND OPERATIONS PLANS TO PREVENT CONTAMINATION OF THE SPRING OR SEEP. SAMPLING OF THE SPRING OR SEEP SHALL ALSO BE INCORPORATED INTO THE FACILITY'S GROUNDWATER SAMPLING PLAN.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Keith Stevens

Georgia Power

TOP OF SOIL LINER GRADING PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-IG	EDIT 06/14/2022
SCALE	1" = 100'	SHEET	H1C11057
DATE	OCTOBER 2022		

BENCHMARKS			
BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
2429DGPS	1121395.730	2407630.407	454.322
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2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

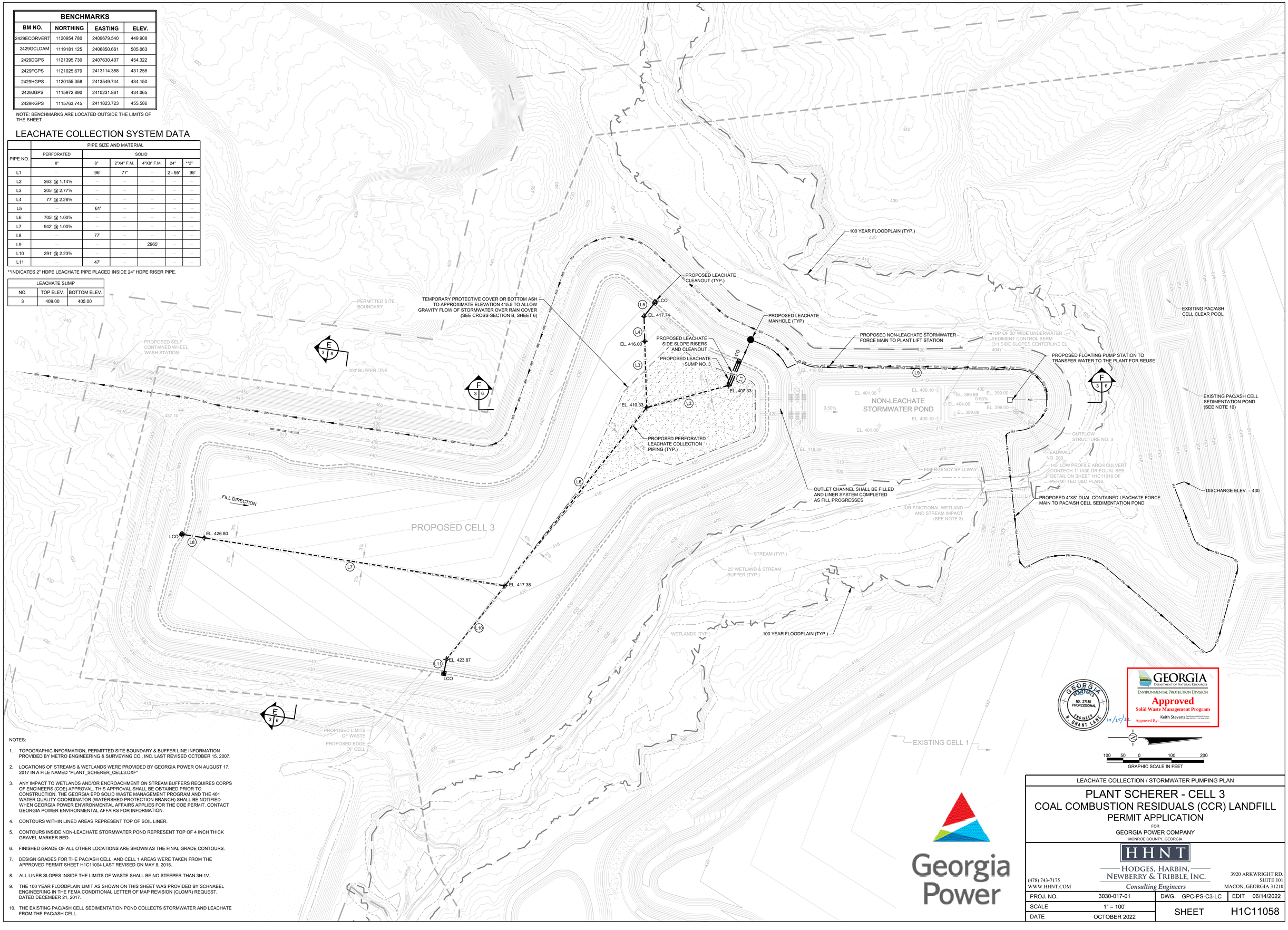
NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

LEACHATE COLLECTION SYSTEM DATA

PIPE NO.	PIPE SIZE AND MATERIAL					
	PERFORATED	SOLID				
	8"	8"	2"X4" F.M.	4"X8" F.M.	24"	**2"
L1	–	96'	77'	–	2 - 95'	95'
L2	263' @ 1.14%	–	–	–	–	–
L3	205' @ 2.77%	–	–	–	–	–
L4	77' @ 2.26%	–	–	–	–	–
L5	–	61'	–	–	–	–
L6	705' @ 1.00%	–	–	–	–	–
L7	942' @ 1.00%	–	–	–	–	–
L8	–	77'	–	–	–	–
L9	–	–	–	2965'	–	–
L10	291' @ 2.23%	–	–	–	–	–
L11	–	47'	–	–	–	–

**INDICATES 2" HDPE LEACHATE PIPE PLACED INSIDE 24" HDPE RISER PIPE.

LEACHATE SUMP		
NO.	TOP ELEV.	BOTTOM ELEV.
3	409.00	405.00



NOTES:

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4. CONTOURS WITHIN LINED AREAS REPRESENT TOP OF SOIL LINER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED ON MAY 8, 2015.
8. ALL LINER SLOPES INSIDE THE LIMITS OF WASTE SHALL BE NO STEEPER THAN 3H:1V.
9. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.
10. THE EXISTING PAC/ASH CELL SEDIMENTATION POND COLLECTS STORMWATER AND LEACHATE FROM THE PAC/ASH CELL.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE
10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2022.10.27 10:13:46 -04'00'

Georgia Power

LEACHATE COLLECTION / STORMWATER PUMPING PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-LC	EDIT 06/14/2022
SCALE	1" = 100'	SHEET	H1C11058
DATE	OCTOBER 2022		

BENCHMARKS			
BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
2429DGPS	1121395.730	2407630.407	454.322
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2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

PERMITTED SITE BOUNDARY

PROPOSED SELF CONTAINED WHEEL WASH STATION

200' BUFFER LINE

100 YEAR FLOODPLAIN (TYP.)

TOP OF 20' WIDE UNDERWATER SEDIMENT CONTROL DIKE (3:1 SIDESLOPES CENTERLINE EL. 404)

FLOATING PUMP STATION MAY BE REMOVED AT THE OPERATORS DISCRETION

EXISTING PAC/ASH CELL CLEAR POOL

EXISTING PAC/ASH CELL SEDIMENTATION POND

NON-LEACHATE STORMWATER POND

EL. 418.00

EL. 401.00

EL. 400.10

EL. 399.89

EL. 404.00

EL. 399.00

0.50%

HEADWALL NO. 200

145' LOW PROFILE ARCH CULVERT CONTECH 111A30 OR EQUAL SEE DETAIL ON SHEET H1C11016 OF PERMITTED D&O PLANS

EMERGENCY SPILLWAY

JURISDICTIONAL WETLAND AND STREAM IMPACT (SEE NOTE 3)

PROPOSED CELL 3

EL. 493

3.00%

25'

STREAM (TYP.)

25' WETLAND & STREAM BUFFER (TYP.)

WETLANDS (TYP.)

100 YEAR FLOODPLAIN (TYP.)

EXISTING I POND

PROPOSED LIMITS OF WASTE

PROPOSED EDGE OF CELL

EXISTING CELL 1

NOTES:

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4. CONTOURS INSIDE EDGE OF CELL REPRESENT TOP OF FINAL COVER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED MAY 8, 2015.
8. ALL FINAL SLOPES SHALL BE NO STEEPER THAN 3H:1V.
9. THE 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE

10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

100 50 0 100 200
GRAPHIC SCALE IN FEET

Georgia Power

FINAL GRADING PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-FG	EDIT 06/14/2022
SCALE	1" = 100'	SHEET	H1C11059
DATE	OCTOBER 2022		

BENCHMARKS

BM NO.	NORTHING	EASTING	ELEV.
2429ECORVERT	1120954.780	2409679.540	449.908
2429GCLDAM	1119181.125	2406850.661	505.063
2429DGPS	1121395.730	2407630.407	454.322
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2429JGPS	1115972.890	2410231.861	434.065
2429KGPS	1115763.745	2411823.723	455.586

NOTE: BENCHMARKS ARE LOCATED OUTSIDE THE LIMITS OF THE SHEET

EROSION CONTROL LEGEND

St	STORM DRAIN OUTLET PROTECTION	Lv	LEVEL SPREADER
Ch-2	TURF REINFORCEMENT MATTING	Cd-S	STONE CHECK DAM
Co	CONSTRUCTION EXIT	Ds1	DIST. AREA W/ MULCH
Ds2	DIST. AREA W/ TEMPORARY COVER	Ds3	DIST. AREA W/ PERMANENT COVER

XX PROPOSED DOUBLE ROW SILT FENCE Sd1-S

RIP-RAP OUTLET PROTECTION

W2, L, St, W1

PIPE NO.	RIP-RAP SIZE	LENGTH(L)	W1	W2
101	6"	14'	9'	9'
102 (4)	9"	20'	36'	92'
103 (4)	9"	20'	36'	92'
200	9"	50'	9'	23'

NOTES:
ALL OUTLET PROTECTION RIP-RAP TO BE GROUTED. ALTERNATIVELY, OUTLET PROTECTION AREA TO BE LINED WITH CONCRETE.

OUTLET PROTECTION FOR CONCRETE DOWN CHUTES

OUTLET PROTECTION FOR CONCRETE DOWN CHUTES SHALL BE CONCRETE DITCH LINING AT THE OUTFALL OF EACH DOWN CHUTE. THE CONCRETE DITCH LINING DIMENSIONS WILL BE 40' X 27' (DITCH WIDTH) CENTERED ON THE DOWN CHUTE.

RIP-RAP LINED DITCH

DITCH NO.	RIP-RAP SIZE	LENGTH	SLOPE
1	NSA R-3	399.0'	0.28%
2	NSA R-3	505.8'	0.81%
3	NSA R-3	353.9'	0.79%
4	NSA R-3	607.9'	0.80%
5	NSA R-3	498.2'	0.76%
6	NSA R-3	264.4'	0.49%
7	NSA R-3	575.3'	0.48%
8	NSA R-3	665.9'	0.74%
9	NSA R-3	952.9'	0.76%
10	NSA R-3	304.4'	0.59%
11	NSA R-3	475.1'	0.49%

PROPOSED CELL 3
NON-LEACHATE STORMWATER POND
PROPOSED CONCRETE DOWN CHUTE (TYP.) (SEE SHEET 12 OF 12 FOR DETAILS)
RIP RAP TO BE PLACED AT THE BASE OF THE SLOPE AND GROUTED IN PLACE TO PROTECT GRAVEL MARKER BED
TOP OF 20' WIDE UNDERWATER SEDIMENT CONTROL BERM (3:1 SIDE SLOPES CENTERLINE EL. 404)
FLOATING PUMP STATION MAY BE REMOVED AT THE OPERATORS DISCRETION
EMERGENCY SPILLWAY
HEADWALL TO 200
4' WIDE FLAT BOTTOM DITCH
200' BUFFER LINE
PERMITTED SITE BOUNDARY
PROPOSED SELF CONTAINED WHEEL WASH STATION
100 YEAR FLOODPLAIN (TYP.)
JURISDICTIONAL WETLAND AND STREAM IMPACT (SEE NOTE 3)
145' LOW PROFILE ARCH CULVERT CONTECH 111A30 OR EQUAL SEE DETAIL ON SHEET H1C11016
STREAM (TYP.)
25' WETLAND & STREAM BUFFER (TYP.)
WETLANDS (TYP.)
EXISTING PAC/ASH CELL CLEAR POOL
EXISTING PAC/ASH CELL SEDIMENTATION POND
EXISTING CELL 1
PROPOSED LIMITS OF WASTE
PROPOSED EDGE OF CELL
BEGINNING/END OF DITCH (TYP)
CDC-1 CDC-2 CDC-3 CDC-4 CDC-5 CDC-6 CDC-7 CDC-8 CDC-9 CDC-10 CDC-11 CDC-12
DITCH 1 DITCH 2 DITCH 3 DITCH 4 DITCH 5 DITCH 6 DITCH 7 DITCH 8 DITCH 9 DITCH 10 DITCH 11

NOTES:

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4. CONTOURS INSIDE EDGE OF CELL REPRESENT TOP OF FINAL COVER.
5. CONTOURS INSIDE NON-LEACHATE STORMWATER POND REPRESENT TOP OF 4 INCH THICK GRAVEL MARKER BED.
6. FINISHED GRADE OF ALL OTHER LOCATIONS ARE SHOWN AS THE FINAL GRADE CONTOURS.
7. DESIGN GRADES FOR THE PAC/ASH CELL AND CELL 1 AREAS WERE TAKEN FROM THE APPROVED PERMIT SHEET H1C11004 LAST REVISED MAY 8, 2015.
8. ALL FINAL SLOPES SHALL BE NO STEEPER THAN 3H:1V.
9. ALL DOWNDRAINS SHALL BE 24" DIA CORRUGATED PLASTIC PIPE. (SMOOTH INTERIOR WALL)
10. THE PROPOSED 100 YEAR FLOODPLAIN LIMIT AS SHOWN ON THIS SHEET WAS PROVIDED BY SCHNABEL ENGINEERING IN THE FEMA CONDITIONAL LETTER OF MAP REVISION (CLOMR) REQUEST, DATED DECEMBER 21, 2017.
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12. THE FACILITY SHALL COMPLY WITH ALL APPLICABLE NPDES PERMITS, INCLUDING BUT NOT LIMITED TO APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMITS, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT, AND NPDES WASTEWATER DISCHARGE PERMITS.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE
10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

100 50 0 100 200
GRAPHIC SCALE IN FEET

Georgia Power

FINAL DRAINAGE AND EROSION CONTROL PLAN

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR
GEORGIA POWER COMPANY
MONROE COUNTY, GEORGIA

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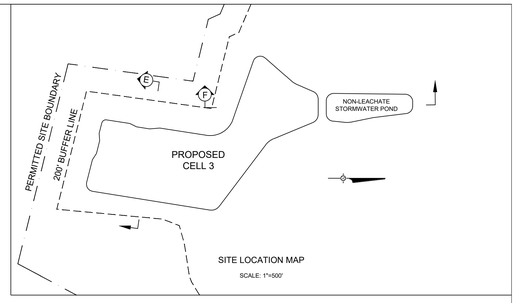
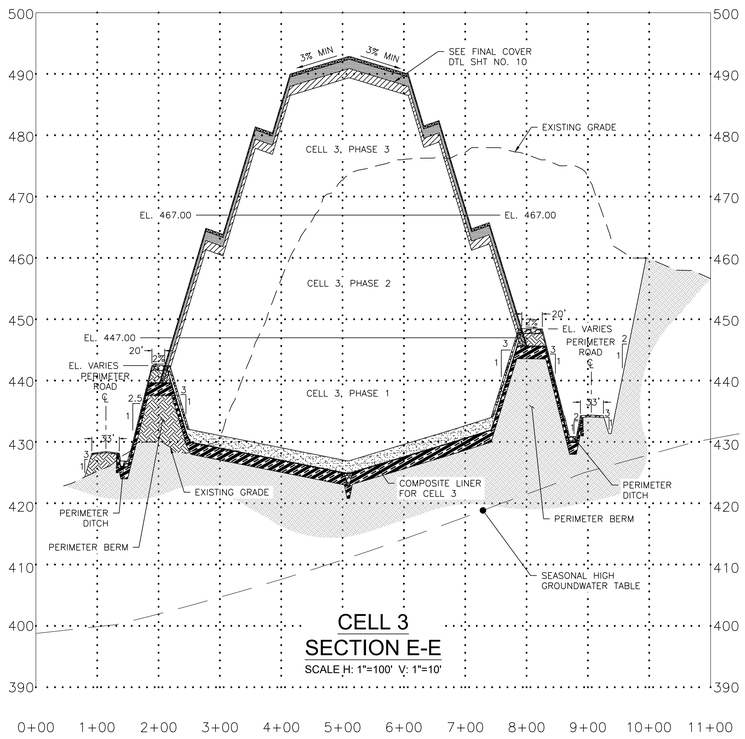
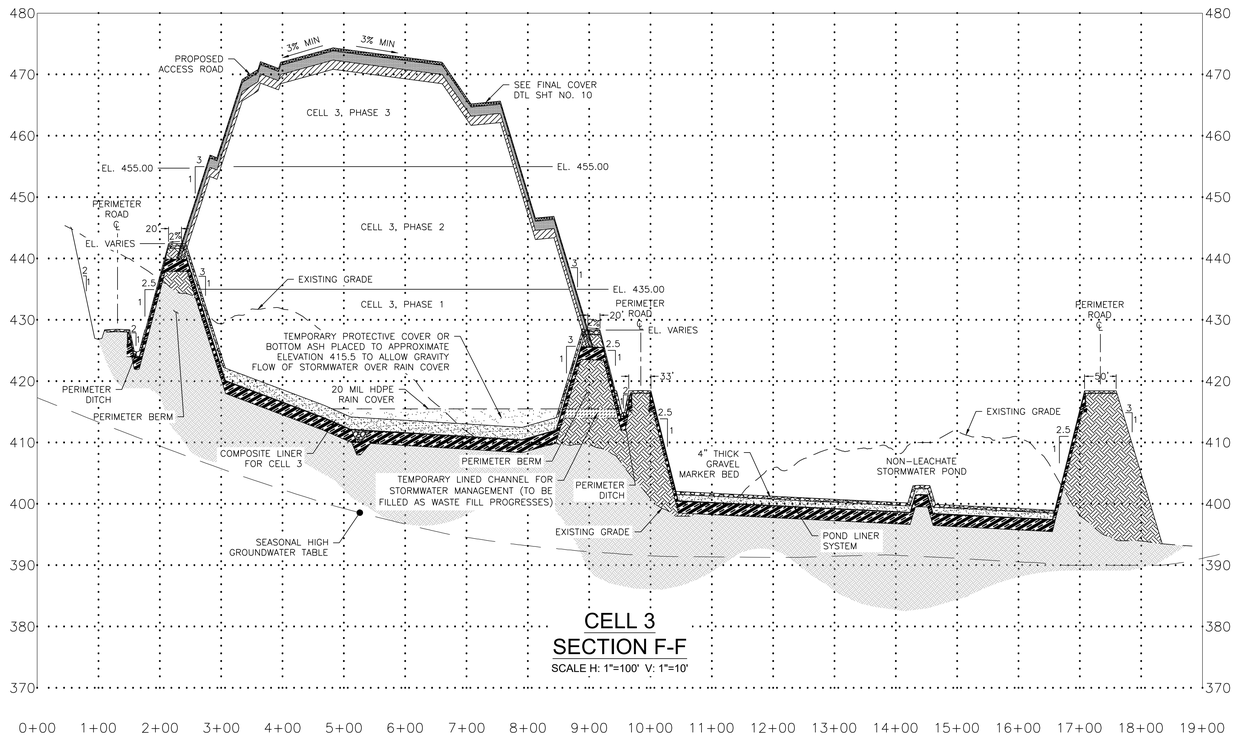
PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-FD	EDIT 06/14/2022
SCALE	1" = 100'	SHEET	H1C11060
DATE	OCTOBER 2022		





CELL 3
SECTION E-E
SCALE H: 1"=100' V: 1"=10'



CELL 3
SECTION F-F
SCALE H: 1"=100' V: 1"=10'

NOTES:

1. TOPOGRAPHIC INFORMATION, PERMITTED SITE BOUNDARY & BUFFER LINE INFORMATION PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. LAST REVISED OCTOBER 15, 2007.
2. SEASONAL HIGH GROUNDWATER CONTOURS OBTAINED FROM D&O SHEET NO. H1C11028 APPROVED BY EPD ON MAY 3, 2011.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE
10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Georgia Power

CROSS SECTIONS E AND F

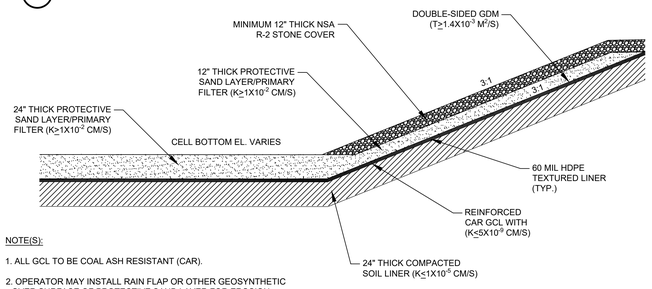
PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR
GEORGIA POWER COMPANY
MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
WWW.HHNT.COM
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-XSEC	EDIT 6-14-2022
SCALE	AS SHOWN	SHEET	H1C11061
DATE	OCTOBER 2022		

1



NOTE(S):

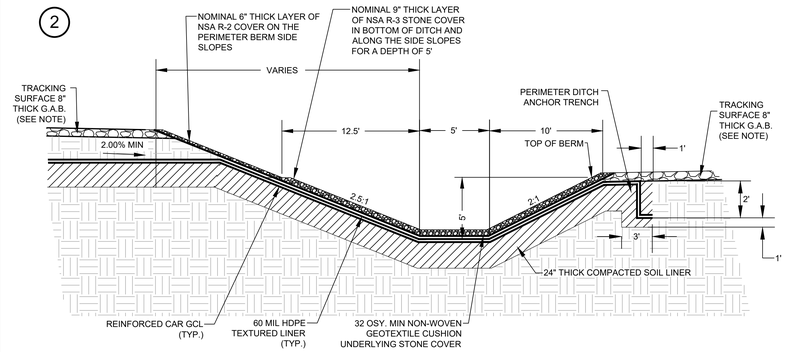
1. ALL GCL TO BE COAL ASH RESISTANT (CAR).

2. OPERATOR MAY INSTALL RAIN FLAP OR OTHER GEOSYNTHETIC OVER SURFACE OF PROTECTIVE SAND LAYER FOR EROSION CONTROL AND STORMWATER MANAGEMENT.

COMPOSITE BOTTOM LINER

NTS

2

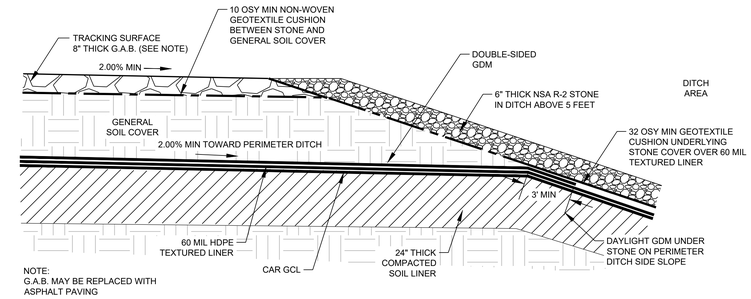


PERIMETER DITCH COMPOSITE LINER

SCALE: N.T.S.

NOTE:
G.A.B. MAY BE REPLACED WITH
ASPHALT PAVING

3

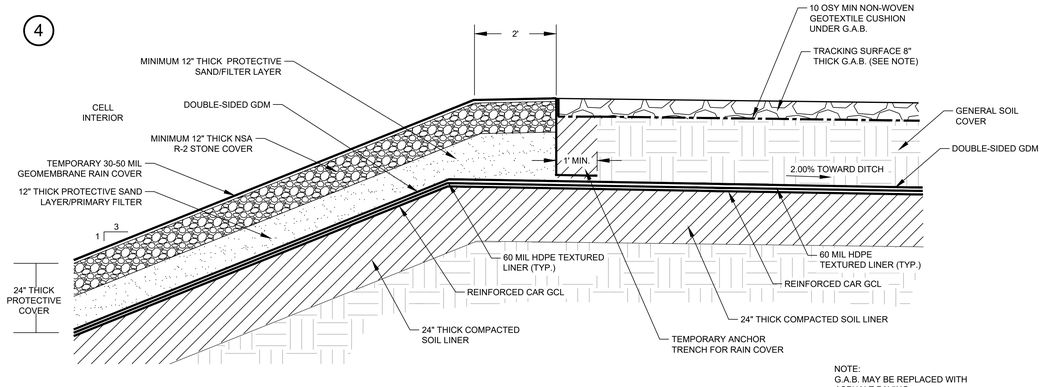


NOTE:
G.A.B. MAY BE REPLACED WITH
ASPHALT PAVING

PERIMETER DITCH AND TOP OF BERM INTERFACE

SCALE: N.T.S.

4

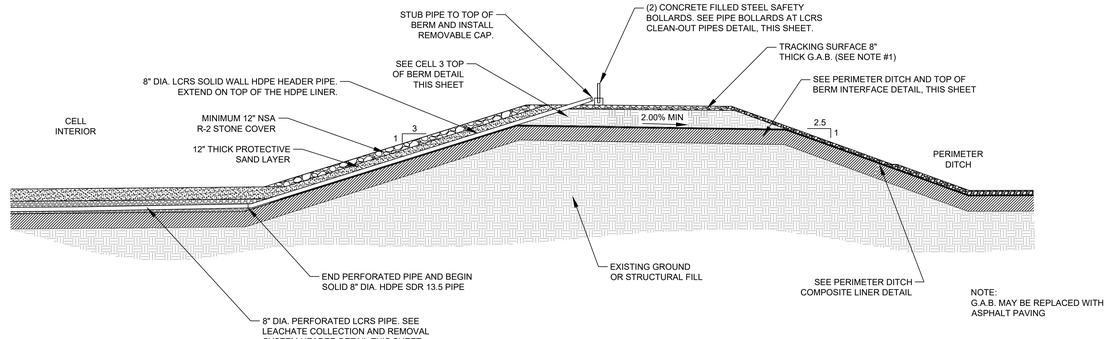


NOTE:
G.A.B. MAY BE REPLACED WITH
ASPHALT PAVING

CELL 3 TOP OF BERM

SCALE: N.T.S.

5



NOTE:
G.A.B. MAY BE REPLACED WITH
ASPHALT PAVING

NOTE(S):

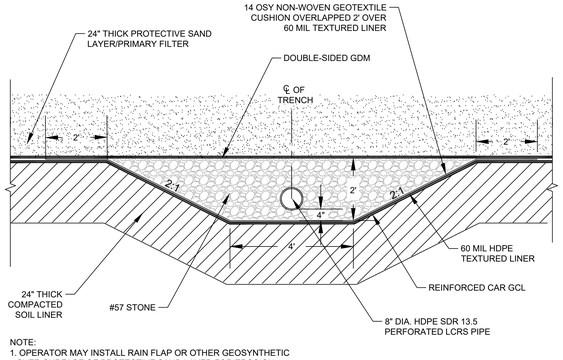
1. G.A.B. MAY BE REPLACED WITH ASPHALT PAVING.

2. OPERATOR MAY INSTALL RAIN FLAP OR OTHER GEOSYNTHETIC OVER SURFACE OF PROTECTIVE SAND LAYER FOR EROSION CONTROL AND STORMWATER MANAGEMENT.

LEACHATE COLLECTION REMOVAL SYSTEM (LCRS) PIPE CLEANOUT

SCALE: N.T.S.

6

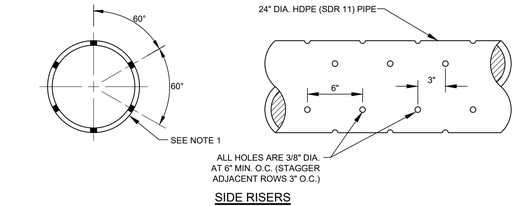


NOTE:
1. OPERATOR MAY INSTALL RAIN FLAP OR OTHER GEOSYNTHETIC OVER SURFACE OF PROTECTIVE SAND LAYER FOR EROSION CONTROL AND STORMWATER MANAGEMENT.

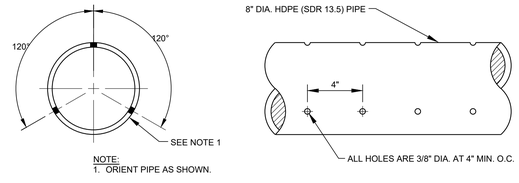
LEACHATE COLLECTION AND REMOVAL SYSTEM HEADER

SCALE: N.T.S.

7



SIDE RISERS



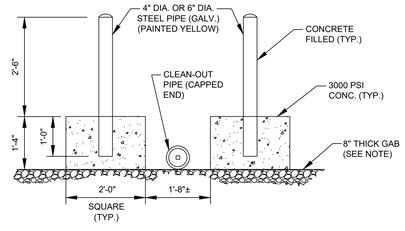
NOTE:
1. ORIENT PIPE AS SHOWN.

LEACHATE COLLECTION PIPING

HDPE LEACHATE PIPE PERFORATIONS

SCALE: N.T.S.

8



NOTE:
G.A.B. MAY BE REPLACED WITH
ASPHALT PAVING

PIPE BOLLARDS AT LCRS CLEAN-OUT PIPES

SCALE: N.T.S.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE
10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
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Approved By: Keith Stevens

Georgia Power

MISCELLANEOUS DETAILS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR
GEORGIA POWER COMPANY
MONROE COUNTY, GEORGIA

HHNT
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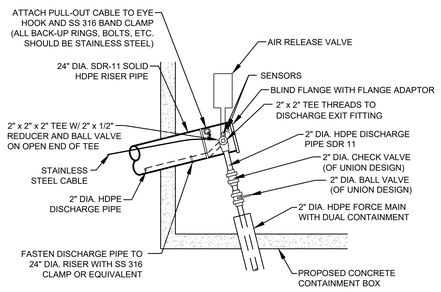
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-D1	EDIT 06/14/2022
SCALE	N.T.S.	SHEET	H1C11062
DATE	OCTOBER 2022		

9

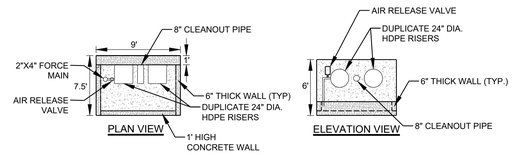


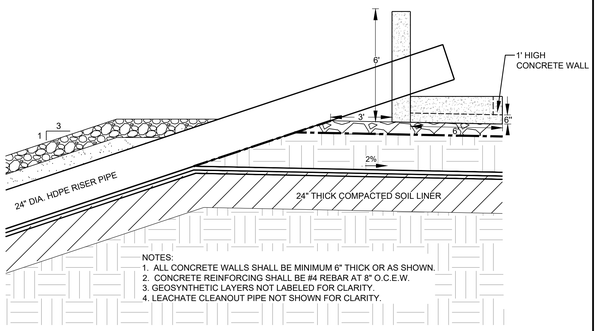
NOTE(S):
1. WRAP DISCHARGE PIPE AND FITTINGS WITH INSULATION AND HEAT TAPE.
2. THE ENDS OF ALL PIPES SHALL BE SEALED.

FORCE MAIN FITTINGS W/ FREEZE PROTECTION

SCALE: NTS

11

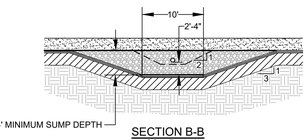




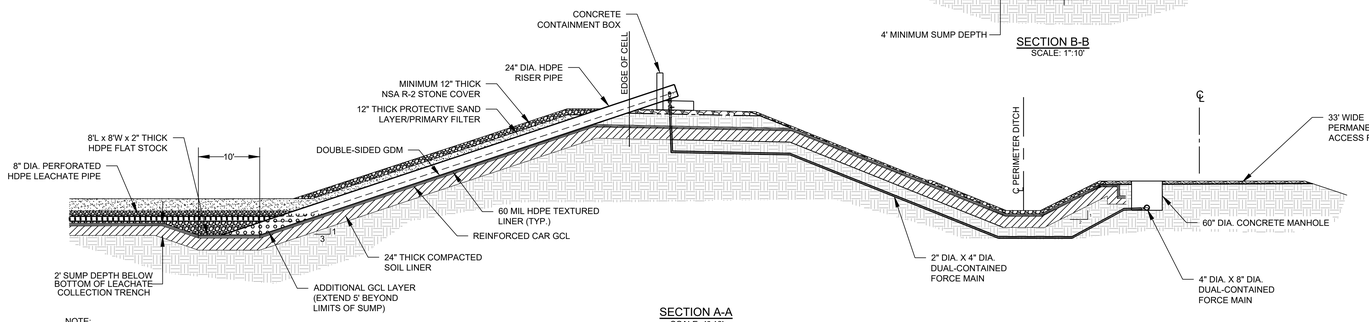
CONCRETE CONTAINMENT BOX

SCALE: NTS

10

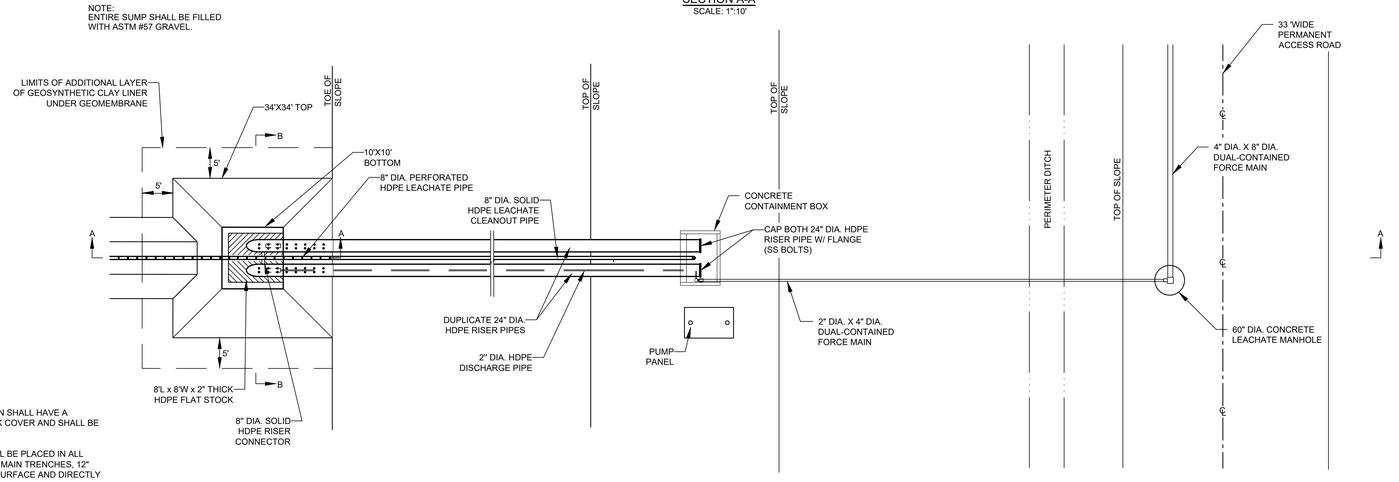


SECTION B-B
SCALE: 1":10'



NOTE:
ENTIRE SUMP SHALL BE FILLED WITH ASTM #57 GRAVEL.

SECTION A-A
SCALE: 1":10'



NOTES:
1. 2" DIA. FORCE MAIN SHALL HAVE A MINIMUM 24" THICK COVER AND SHALL BE DUAL-CONTAINED.
2. TRACE TAPE SHALL BE PLACED IN ALL LEACHATE FORCE MAIN TRENCHES, 12" BELOW GROUND SURFACE AND DIRECTLY ABOVE PIPE

PUMP CONTROLS:
SUMP PUMP SYSTEM SHALL BE EQUIPPED WITH A HIGH WATER ALARM THAT WILL ALERT ONSITE PERSONNEL TO HIGH WATER LEVEL IN SUMP. AT A MINIMUM, 1 SPARE 80 GPM PUMP SHALL BE ONSITE FOR QUICK REPLACEMENT IN CASE OF PUMP FAILURE. PUMPS SHALL BE EQUIPPED WITH PRESSURE TRANSDUCERS FOR AUTOMATIC CONTROL.

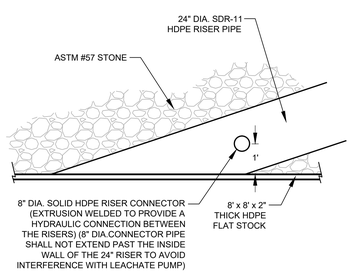
PLAN VIEW
SCALE: NTS

NOTE:
1. ELECTRIC CONDUIT SHALL BE PLACED IN SAME TRENCH WITH FORCE MAIN.

PLAN VIEW
SCALE: NTS

LEACHATE SUMP ASSEMBLY

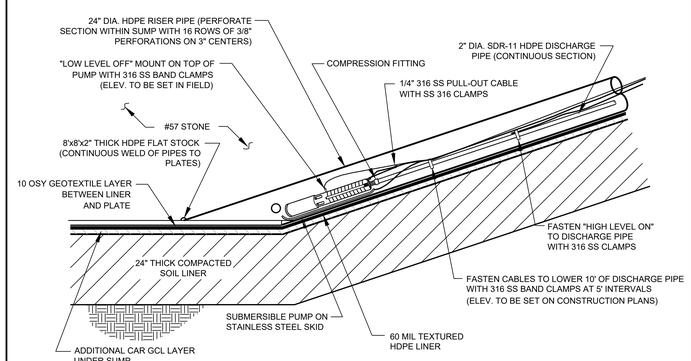
12



8" DIA. SOLID HDPE RISER CONNECTOR

SCALE: 1"=2'

13

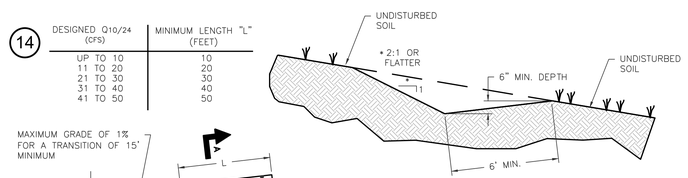


LEACHATE SUMP PUMP

SCALE: N.T.S.

14

DESIGNED Q10/24 (CFS)	MINIMUM LENGTH "L" (FEET)
UP TO 10	10
11 TO 20	20
21 TO 30	30
31 TO 40	40
41 TO 50	50



NOTES:
1. GRADE OF CHANNEL FOR LAST 15 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
2. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL.

TYPICAL LEVEL SPREADER (Lv)

SCALE: N.T.S.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
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Solid Waste Management Program
Approved By: Keith Stevens

Georgia Power

MISCELLANEOUS DETAILS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
3920 ARKWRIGHT RD. SUITE 101
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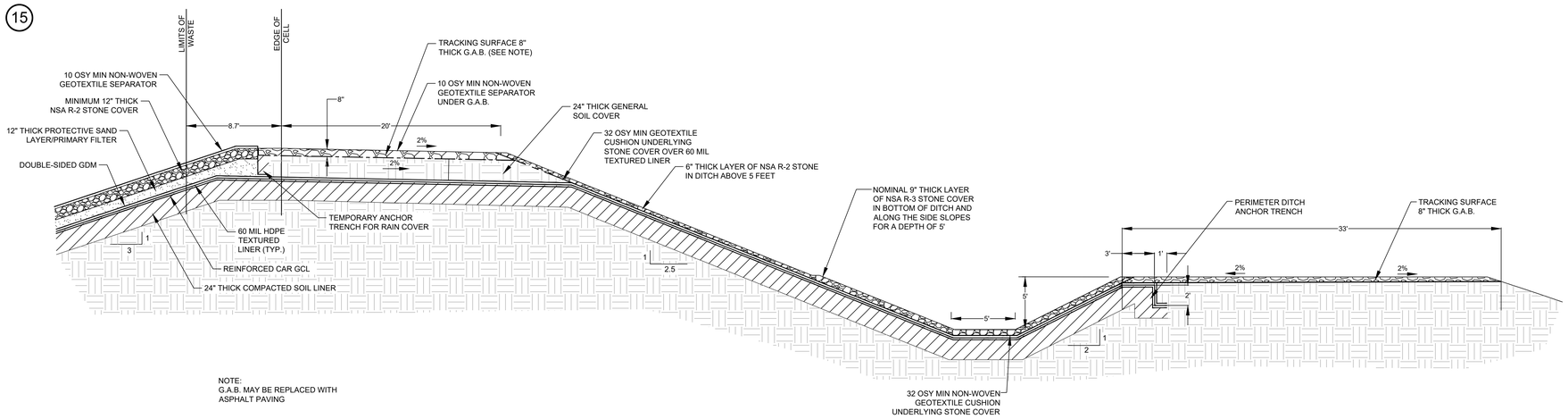
(478) 743-7175
WWW.HHNT.COM

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-D2	EDIT 06/14/2022
SCALE	N.T.S.	SHEET	H1C11063
DATE	OCTOBER 2022		

15

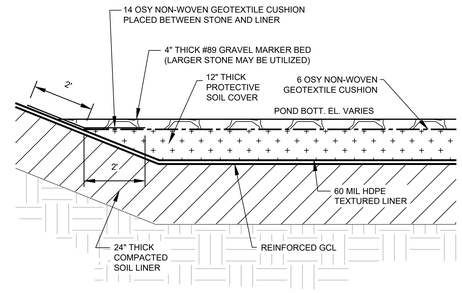


NOTE:
G.A.B. MAY BE REPLACED WITH ASPHALT PAVING

PERMANENT ACCESS ROAD, PERMIETER DITCH, AND BERM TYPICAL SECTION

SCALE: 1" = 5'

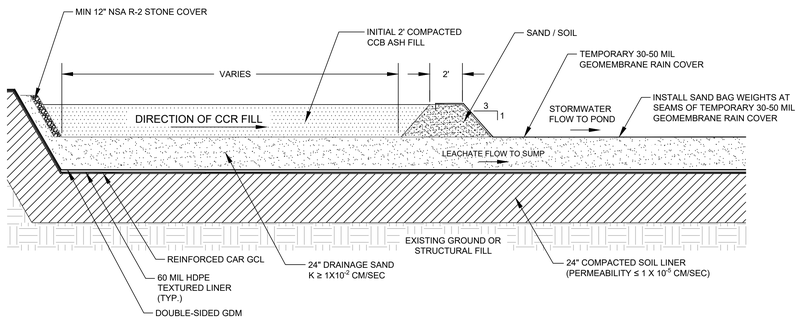
16



TYPICAL POND COMPOSITE LINER

SCALE: N.T.S.

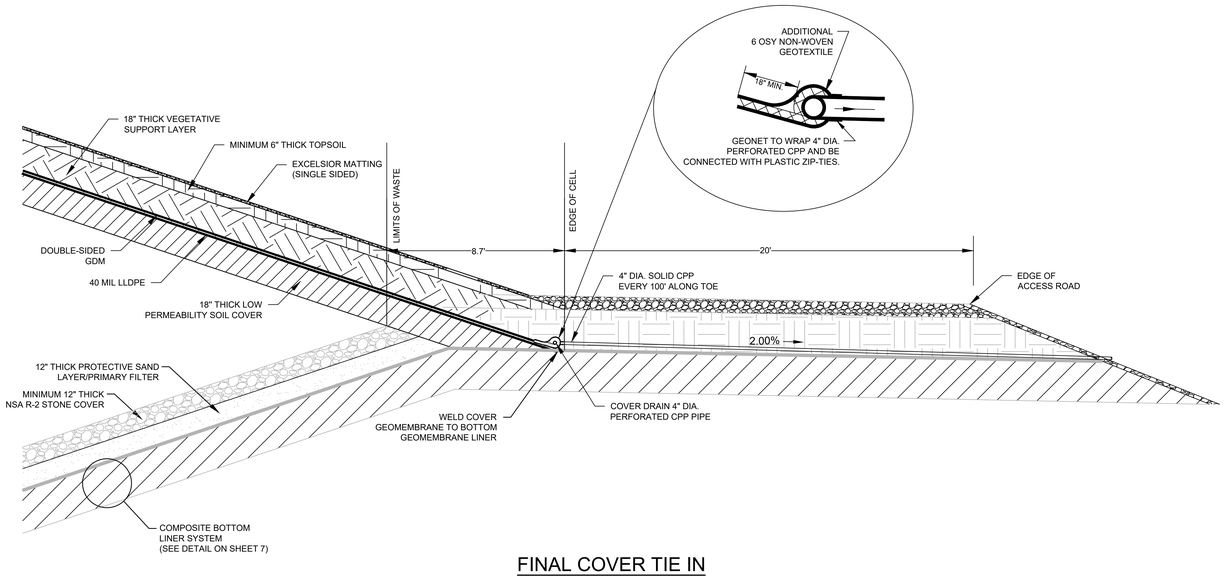
17



RAIN FLAP

SCALE: N.T.S.

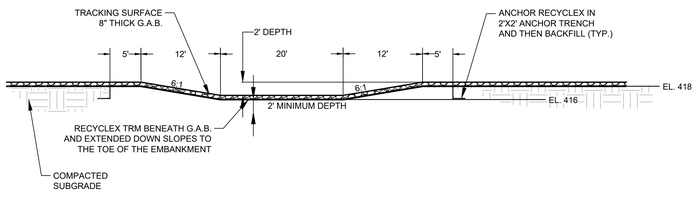
18



FINAL COVER TIE IN

SCALE: 1" = 3'

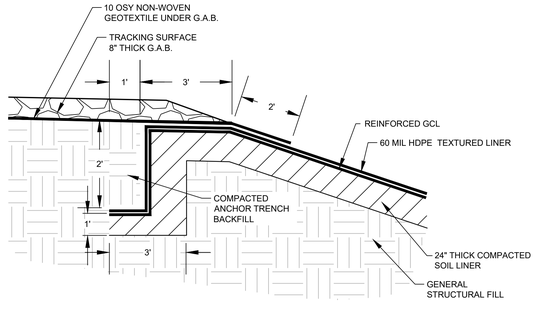
19



EMERGENCY SPILLWAY NON-LEACHATE STORMWATER POND TYPICAL SECTION

SCALE: N.T.S.

20



POND ANCHOR TRENCH

SCALE: N.T.S.

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

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PLANT SCHERER - CELL 3
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MONROE COUNTY, GEORGIA

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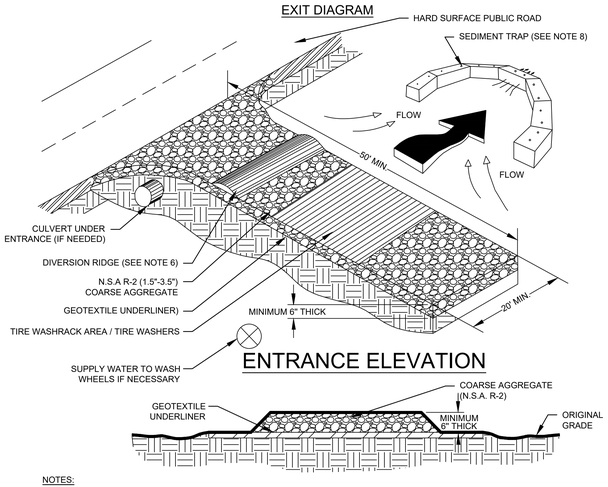
PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-D3	EDIT 06/14/2022
SCALE	N.T.S.	SHEET	H1C11064
DATE	OCTOBER 2022		

21

MAINTENANCE

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

CRUSHED STONE CONSTRUCTION EXIT



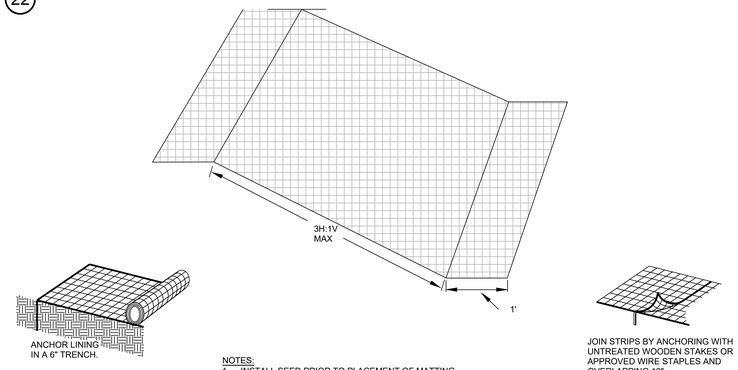
NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5") STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT POND (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.

CONSTRUCTION EXIT (Co)

SCALE: N.T.S

22



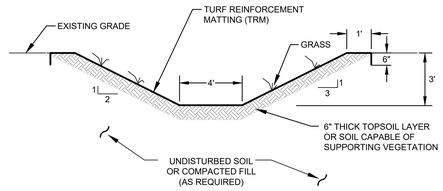
NOTES:

1. INSTALL SEED PRIOR TO PLACEMENT OF MATTING.
2. STAKE ALL MATS AS NEEDED TO PREVENT SHIFTING.
3. INSTALL ALL MATS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. FLEXIBLE GROWTH MEDIUM OR BONDED FIBER MATRIX MAY BE USED ON SLOPES IN PLACE OF EXCELSIOR MATTING.

EXCELSIOR (WOOD FIBER) MATTING (Ss-RECP)

SCALE: 1" = 1'

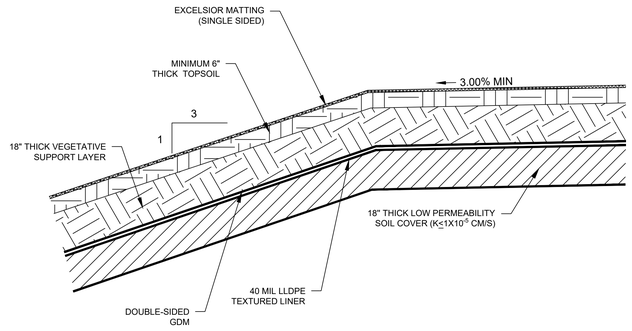
23



4' FLAT BOTTOM DITCH TYPICAL SECTION

SCALE: NTS

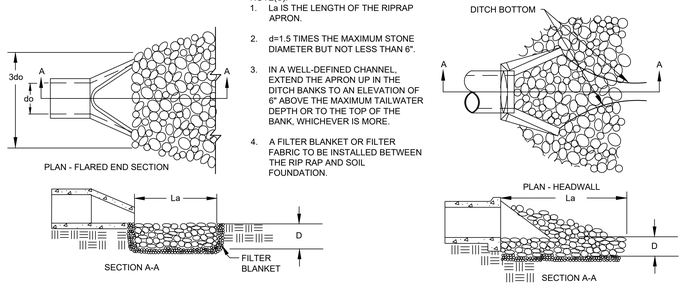
24



FINAL COVER SYSTEM

SCALE: N.T.S.

25



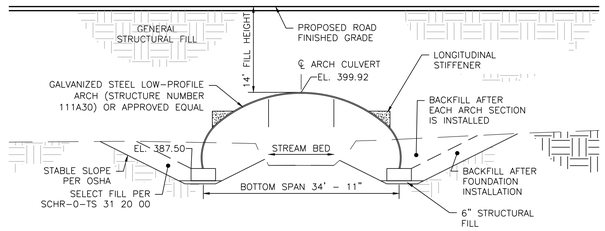
NOTE(S):

1. La IS THE LENGTH OF THE RIPRAP APRON.
2. d=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP IN THE DITCH BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS MORE.
4. A FILTER BLANKET OR FILTER FABRIC TO BE INSTALLED BETWEEN THE RIP RAP AND SOIL FOUNDATION.

OUTLET PROTECTION (St)

SCALE: N.T.S

26



NOTES:

1. FINAL DESIGN TO BE PROVIDED BY ARCH CULVERT MANUFACTURER.

ARCH CULVERT SECTION AT CELL 3

SCALE: 1" = 1'

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE

10/25/22

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Approved By: _____

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MONROE COUNTY, GEORGIA

HHNT
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
Consulting Engineers
(478) 743-7175
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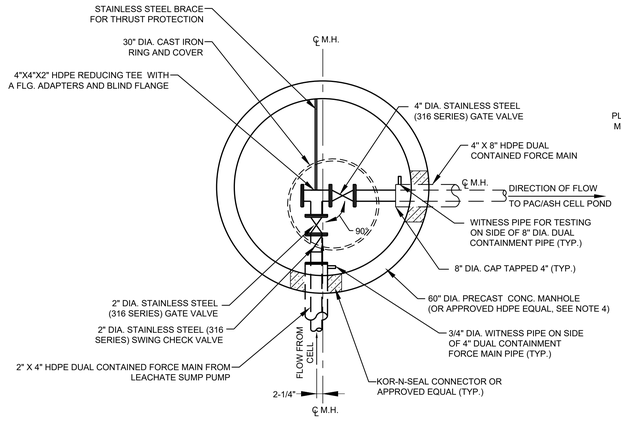
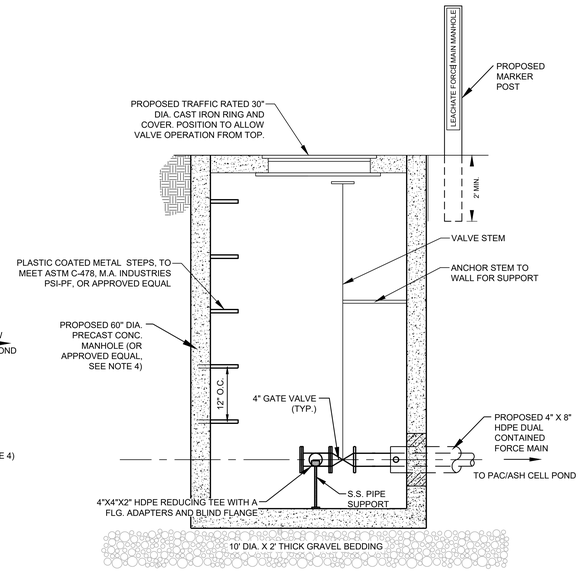
3920 ARKWRIGHT RD. SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	3030-017-01	DWG. GPC-PS-C3-D4	EDIT 06/14/2022
SCALE	N.T.S.	SHEET	H1C11065
DATE	OCTOBER 2022		

27



PLAN VIEW



ELEVATION VIEW

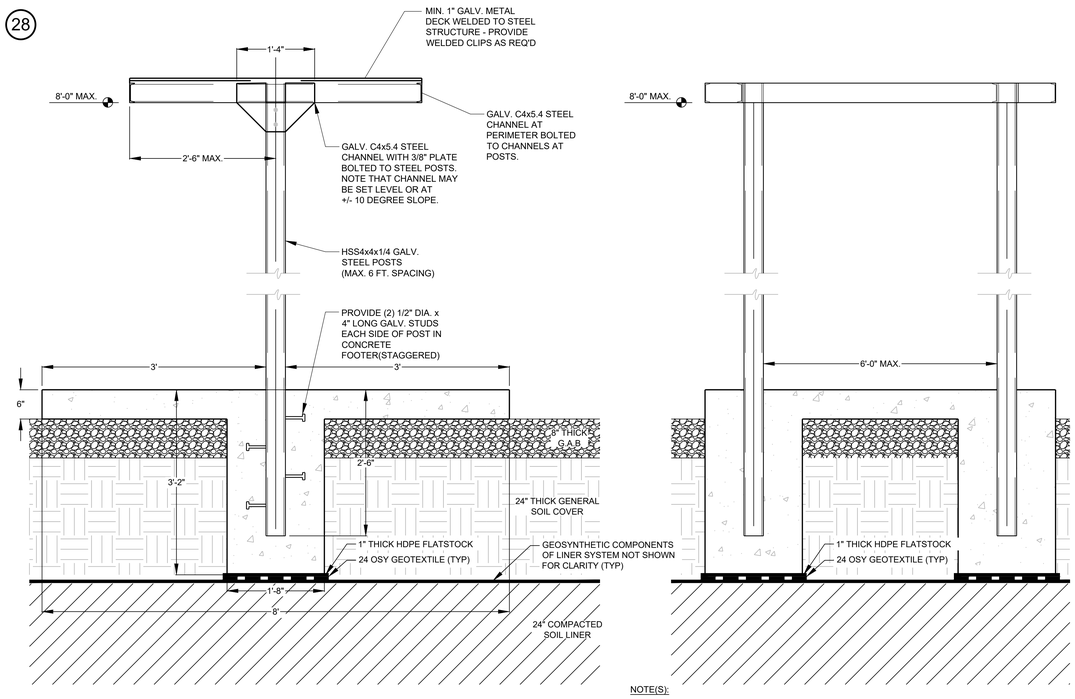
NOTE(S):

1. PROVIDE BOLLARDS ON EITHER SIDE OF MANHOLES TO PROTECT FROM VEHICLE TRAFFIC.
2. 4" VALVES SHALL BE FLANGED.
3. PIPE ENTRANCES INTO MANHOLE SHALL BE GROUTED OR CAST HDPE BOOTS (KOR-N-SEAL) INTO CONCRETE WALLS.
4. DIMENSION OF MANHOLE WILL BE DETERMINED BY CONTRACTOR BASED ON REQUIRED DIAMETER TO ACCOMMODATE VALVES AND FITTINGS.

LEACHATE MANHOLE AND STUB-OUT

SCALE: N.T.S.

28



NOTE(S):

1. PAINT ALL FIELD WELDED LOCATIONS WITH GALV. PAINT. CONTRACTOR MAY USE BOLTED CONNECTIONS WITH ENGINEER'S PRIOR APPROVAL.
2. PROVIDE 1/4" GALV. END CAPS AT ALL STEEL TUBE MEMBERS.
3. VERIFY ACTUAL WIDTH BASED ON CONTROL PANEL SCHEDULE.
4. STRUCTURE SHALL INCLUDE FLUORESCENT LIGHTING AND TWO ELECTRICAL RECEPTACLES

COVERED STRUCTURE FOR PUMP CONTROL PANEL

SCALE: N.T.S.

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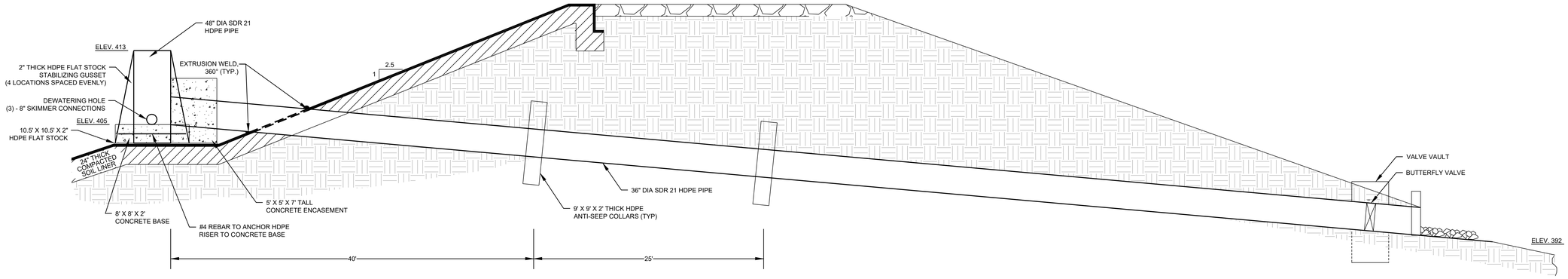

POND OVERFLOW STRUCTURE

SCALE: 1" = 5'

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LANE 10/25/22

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
Approved
Solid Waste Management Program
Approved By: Keith Stevens

Georgia Power

MISCELLANEOUS DETAILS

PLANT SCHERER - CELL 3
COAL COMBUSTION RESIDUALS (CCR) LANDFILL
PERMIT APPLICATION

FOR

GEORGIA POWER COMPANY

MONROE COUNTY, GEORGIA

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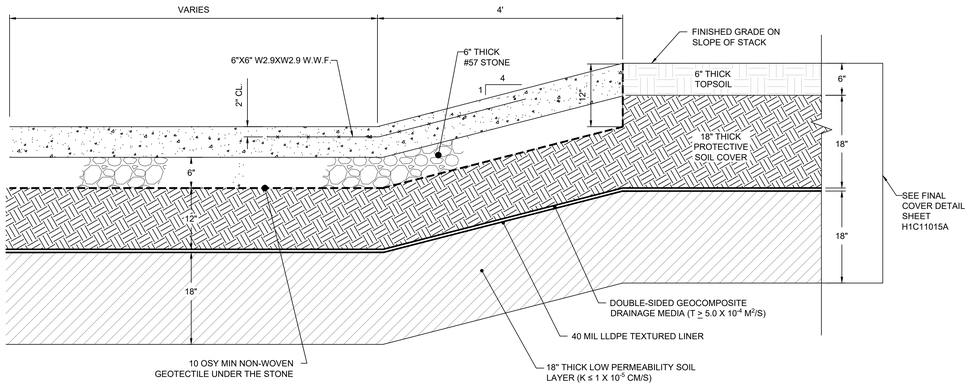
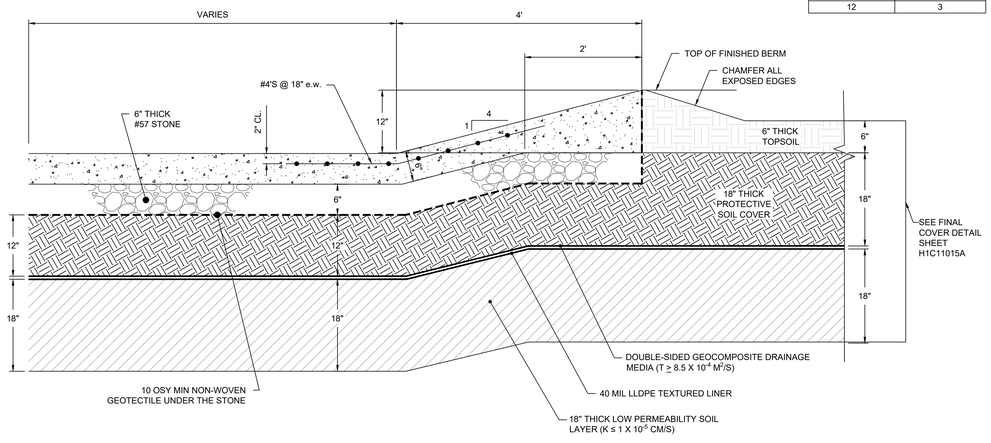


CONCRETE FLUME SECTION S-S
3:1 SIDE SLOPE AREA

SCALE: N.T.S.

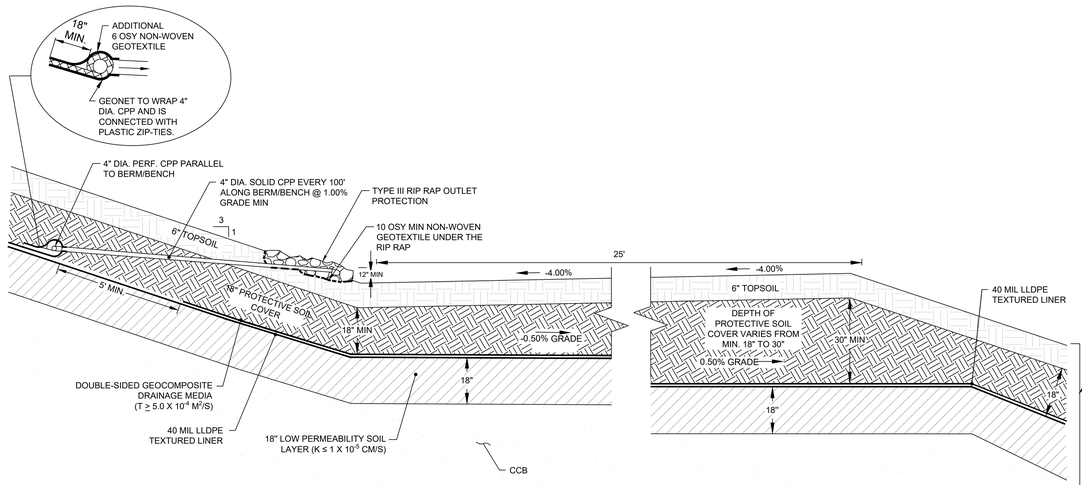
CONCRETE DOWN CHUTE (CDC) DIMENSIONS	
CDC NO.	**BOTTOM WIDTH (FT)**
1	6
2	1
3	1
4	3
5	6
6	6
7	1
8	1
9	3
10	3
11	3
12	3



CONCRETE FLUME SECTION U-U
AT CENTERLINE OF BERM

SCALE: N.T.S.

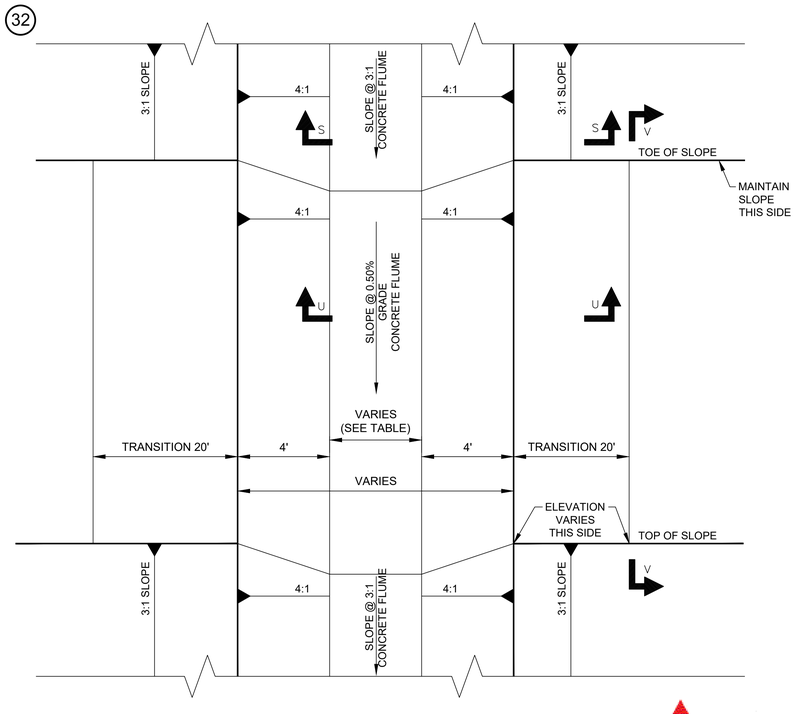
31



FINAL COVER INTERNAL DRAIN OUTLET
DETAIL BERM TRANSITION SECTION V-V

SCALE: N.T.S.

32



BERM TRANSITION AT FLUME DETAIL
PLAN VIEW

SCALE: N.T.S.

Georgia Power

GEORGIA REGISTERED NO. 27185 PROFESSIONAL ENGINEER R. BRANT LAMB
10/25/22

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