CLOSURE DRAWINGS

FOR

GEORGIA POWER

PLANT YATES - ASH MANAGEMENT AREA

COWETA COUNTY, GEORGIA

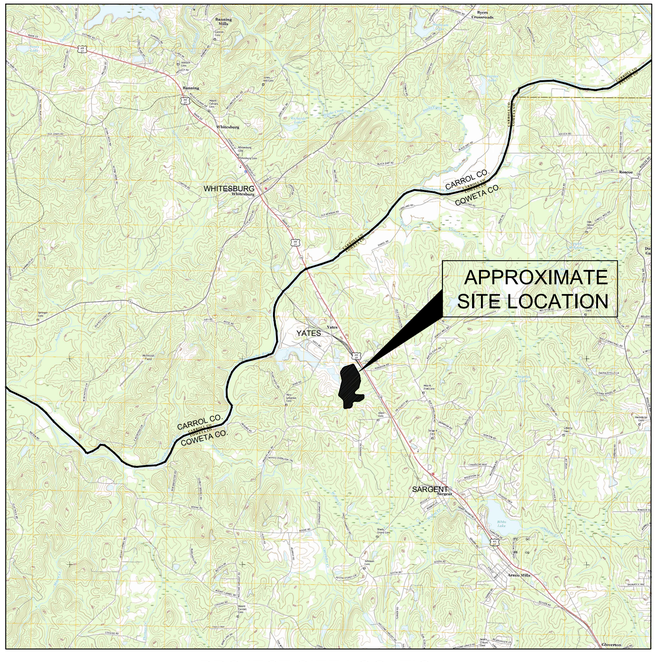
NOVEMBER 2018

PREPARED FOR:

GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD, NE
ATLANTA, GA 30308
TELEPHONE: (404) 506-6505

SITE ADDRESS

PLANT YATES
708 DYER ROAD
NEWNAN, GA30263
(770) 252-0650



PROJECT SITE LOCATION
SCALE: 1" = 1 MILE
SOURCES: USGS QUAD MAP DATED 2017 WHITESBURG, GA
USGS QUAD MAP DATED 2017 NEWNAN NORTH, GA
USGS QUAD MAP DATED 2017 HULETT, GA
USGS QUAD MAP DATED 2017 RICO, GA

REVISION HISTORY

DATE	SHEETS	REQUESTED BY
07/2021	ALL	GEORGIA POWER

INDEX OF DRAWINGS

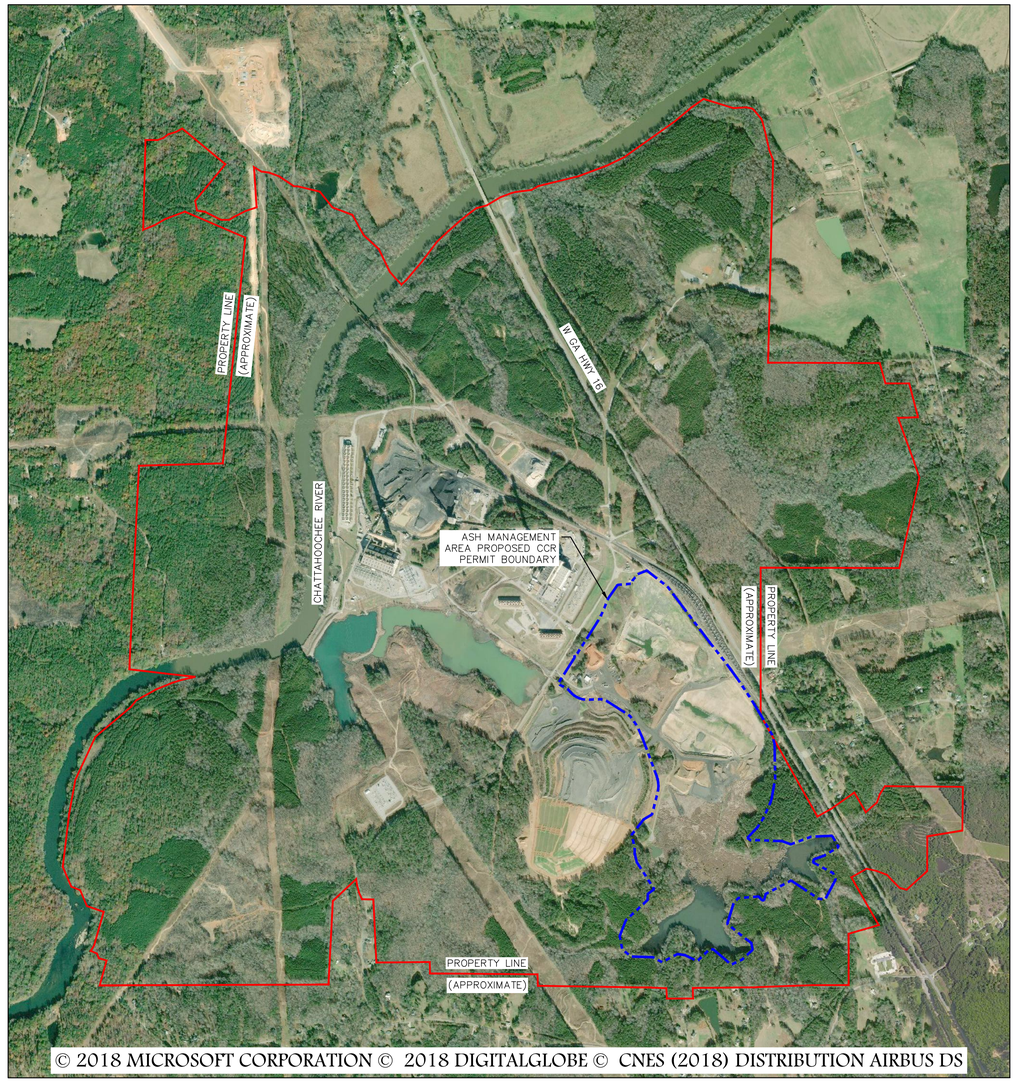
SHEET NO.	DESCRIPTION
1	COVER
2	PROPERTY BOUNDARY & INDEX
3	PERMIT BOUNDARY & LEGAL DESCRIPTION
4	EXISTING CONDITIONS
5	FINAL GRADING PLAN
6	SECTION A
7	SECTION B
8	EROSION & SEDIMENTATION CONTROL PLAN
9	EROSION CONTROL DETAILS
10	CLOSURE DETAILS
11	AEM SUBSURFACE DRAIN DETAILS

Atlantic Coast Consulting, Inc.
1150 Northmeadow Pkwy, Suite 100, Roswell, GA 30076
770-594-5998

GEORGIA — REGISTERED — PROFESSIONAL — ENGINEERS — ELIZABETH YEADWICK — 7-7-21

Georgia Power

P:\Industrial\054-Southern Company\107-Plant Yates CCR Permitting\5 - CCR Permit AAA\1-Drawings\054-107-AAA-001 (Cover).dwg 7/7/21 MATHEU TRUNNELL



SOURCE: BING MAP 2018
SCALE: 1" = 1000'

N

LEGEND

EXISTING	NEW	DESCRIPTION
		APPROXIMATE PROPERTY BOUNDARY
		CCR PERMIT BOUNDARY
10	10	10' CONTOUR
		2' CONTOUR
		PAVED ROAD
		TREE LINE
		RAILROAD
		APPROXIMATE LIMIT OF FORMER POND
		EXTENT OF FINAL COVER
	SD	SUBSURFACE DRAIN
YGWA-43 / PZ-13S		GROUNDWATER MONITORING WELL
		PIEZOMETER
OHP		OVERHEAD POWER LINE
		POWER POLE
		TRANSMISSION LINE TOWER
		PERMANENT IDENTIFICATION MARKER
		INSTALLED CLEANOUT APPROXIMATE LOCATION
		INSTALLED PUMP RISER APPROXIMATE LOCATION

GENERAL NOTES:

1. EXISTING PLANT YATES AERIAL TOPOGRAPHY PROVIDED BY GEORGIA POWER DATED MAY 26, 2017.
2. PROPERTY BOUNDARY SHOWN PROVIDED BY SOUTHERN COMPANY SERVICES IN ELECTRONIC FORMAT AND IS APPROXIMATE.
3. ALL DESIGN BY OTHERS. THESE PLANS ARE A DEPICTION OF THE CLOSURE OF THE ASH MANAGEMENT AREA BY CONSOLIDATION OF CCR AND CLOSURE IN PLACE.
4. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA." STORMWATER CONTROLS AND BEST MANAGEMENT PRACTICES SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
5. STORM WATER DISCHARGES ASSOCIATED WITH CLOSURE ACTIVITIES WILL BE COVERED UNDER THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
6. STATE WATERS BUFFERS SHALL REMAIN UNDISTURBED, EXCEPT WHERE ENCROACHMENT IS REQUIRED TO FACILITATE CLOSURE ACTIVITIES. UNLESS OTHERWISE EXEMPTED BY THE APPROPRIATE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, A STATE WATERS BUFFER VARIANCE SHALL BE OBTAINED FROM GEORGIA EPD'S WATERSHED PROTECTION BRANCH PRIOR TO BUFFER ENCROACHMENT. GEORGIA EPD'S SOLID WASTE MANAGEMENT BRANCH SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR A STATE WATERS BUFFER VARIANCE. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR ASSISTANCE.
7. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES FOR THIS PROJECT, THE PERMITTED BOUNDARY, THE LIMITS OF DISTURBANCE AND ALL WETLANDS AND STATE WATERS BUFFERS WITHIN 200 FEET OF THE LIMITS OF DISTURBANCE OR WITHIN THE PROPERTY BOUNDARY (WHICHEVER IS CLOSER) SHALL BE CLEARLY FLAGGED AND STAKED. THESE MARKINGS SHALL BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION / CLOSURE ACTIVITIES. SHOULD ANY OF THE MARKINGS BE DISTURBED, THE CONTRACTOR SHALL NOTIFY GEORGIA POWER COMPANY IMMEDIATELY. ALL CONSTRUCTION PERSONNEL SHALL BE SHOWN THE LOCATION OF THE LIMITS OF DISTURBANCE, STATE WATER BUFFERS, STATE WATERS AND WETLANDS OUTSIDE THE LIMITS OF DISTURBANCE TO PREVENT HEAVY EQUIPMENT ENCROACHMENT INTO THESE AREAS.

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-7-21

Georgia Power

PROPERTY BOUNDARY & INDEX

CLOSURE DRAWINGS

FOR

GEORGIA POWER
PLANT YATES
ASH MANAGEMENT AREA
COWETA COUNTY, GEORGIA

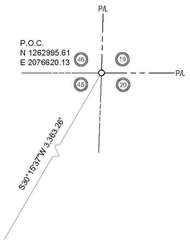
Atlantic Coast Consulting, Inc.
770-594-5998
www.atlcc.net

1150 Northmeadow Pkwy
Suite 100
Roswell, GA 30076

PROJ. NO.	I054-107-AMA	DWG.	EDIT 07/07/21
SCALE	1" = 1,000'	SHEET 2 OF 11	
	NOVEMBER 2018		

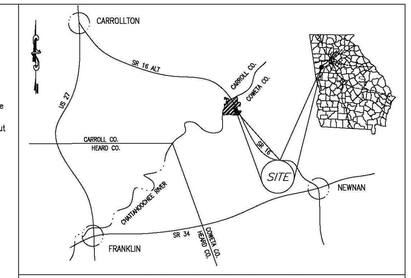
P:\Vulcan\V054-Southern Company\107-Plant Yates CCR Permitting\5 - CCR Permit AAA\1-Drawings\V054-107-AAA-002 (Index).dwg 7/7/21 MATHEU TRUNNELL

NORTH ARROW & PLAT BEARINGS
BASED ON - GEORGIA STATE PLANE
NAD83(2011) WEST



UTILITY LEGEND

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



LOCATION MAP – NOT TO SCALE

PLAT ABBREVIATIONS

IPF – Iron Pin Found
IPS – Iron Pin Set
FPS – Fence Post Set
OTP – Open Top Pipe
CTP – Crimp Top Pipe
Conc. – Concrete
Alumn. – Aluminum
P/L – Property Line
R/W – Right of Way
C/L – Centerline
F/L – Fenceline
T/L – Transmission Line
N/F – Now or Formerly
DB – Deed Book
PB – Plat Book
MF – Map File No.
N.T.S. – Not to Scale
P.O.C.– Point of Commencement
P.O.B.– Point of Beginning
GBH – Geotechnical Bore Hole
UGP – Underground Power
OHU – OverHead Utilities
GPC – Georgia Power Company
(1173) Land Lot
Land Lot Line
Open Water / Ash Pond
Proposed CCR Permit Boundary
Property Line
Railroad
Railroad R/W

MONUMENTATION LEGEND

- Iron Pin Set
- Iron Pin Found
- Monument Set
- Monument Found
- Computed Point
- CP1 / TR1 Control or Traverse Point
- Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

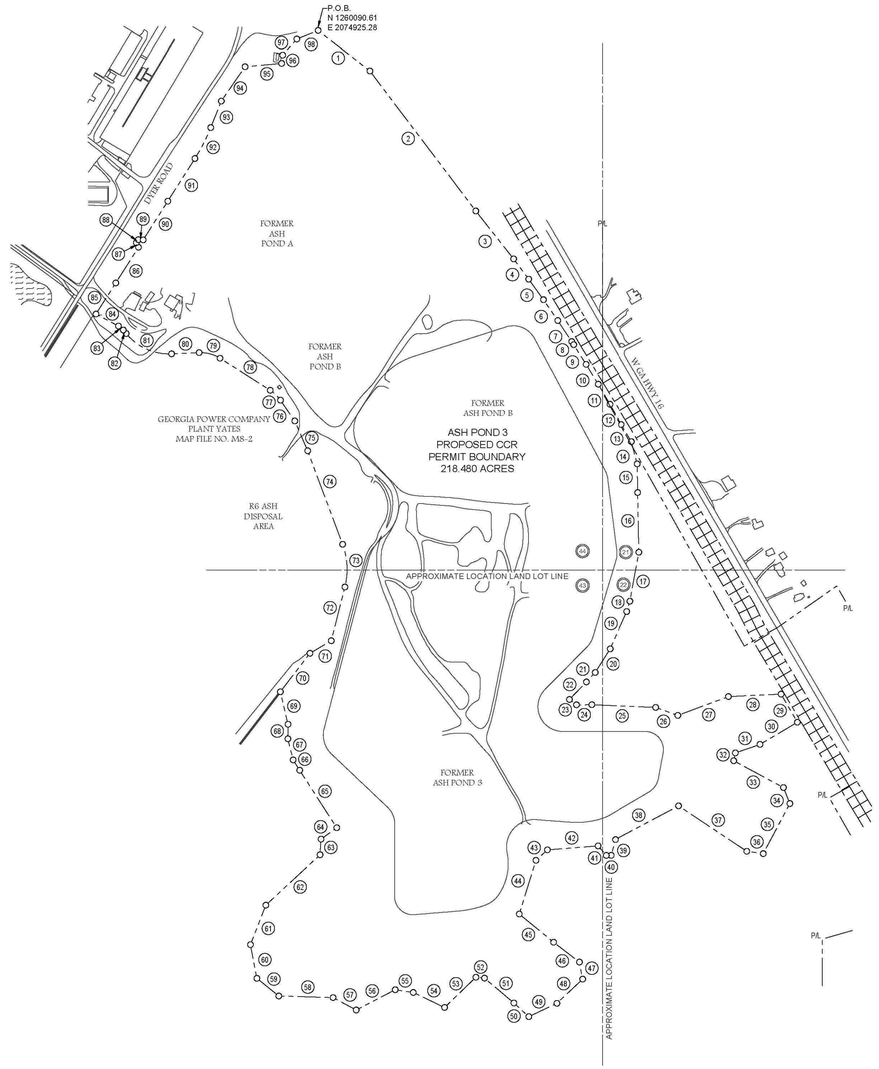
Plant Yates – CCR Permitted Lands – Ash Management Area – Ash Pond 3

All that tract or parcel of land lying and being in land lots 21, 22, 43 and 44 of the 4th District, Coweta County, Georgia and being more particularly described as follows:

BEGINNING at the Land Lot Corner common to Land Lots 19, 20, 45 and 46, having Georgia State Plane, West Zone, NAD83 coordinates of: N 1262995.61 and E 2076620.13; thence leave said common Land Lot Corner and run S30°15'37"W a distance of 3,363.26 feet to a point, said point being the TRUE POINT OF BEGINNING.

FROM THE TRUE POINT OF BEGINNING AS THUS ESTABLISHED, thence run S52°07'18"E a distance of 366.62 feet to a point; thence run S37°06'35"E a distance of 980.75 feet to a point; thence run S38°17'30"E a distance of 341.30 feet to a point; thence run S36°39'43"E a distance of 141.26 feet to a point; thence run S35°36'34"E a distance of 141.26 feet to a point; thence run S34°33'24"E a distance of 141.26 feet to a point; thence run S33°30'14"E a distance of 141.26 feet to a point; thence run S32°55'51"E a distance of 20.43 feet to a point; thence run S32°20'32"E a distance of 130.13 feet to a point; thence run S31°22'23"E a distance of 130.13 feet to a point; thence run S30°24'13"E a distance of 130.13 feet to a point; thence run S29°26'03"E a distance of 130.13 feet to a point; thence run S30°49'25"E a distance of 111.04 feet to a point; thence run S14°42'08"E a distance of 128.97 feet to a point; thence run S00°58'13"E a distance of 159.96 feet to a point; thence run S01°08'28"E a distance of 333.54 feet to a point; thence run S10°22'12"W a distance of 278.35 feet to a point; thence run S17°19'13"W a distance of 60.21 feet to a point; thence run S24°13'32"W a distance of 228.86 feet to a point; thence run S32°24'54"W a distance of 156.33 feet to a point; thence run S43°03'10"W a distance of 72.59 feet to a point; thence run S43°56'52"W a distance of 136.27 feet to a point; thence run S52°40'45"E a distance of 49.05 feet to a point; thence run N89°43'43"E a distance of 86.16 feet to a point; thence run S87°37'50"E a distance of 358.81 feet to a point; thence run S70°10'05"E a distance of 131.77 feet to a point; thence run N69°35'05"E a distance of 301.53 feet to a point; thence run N87°20'24"E a distance of 294.72 feet to a point; thence run S30°07'03"E a distance of 181.67 feet to a point; thence run S59°20'01"W a distance of 243.05 feet to a point; thence run S71°01'07"W a distance of 145.23 feet to a point; thence run S12°25'22"W a distance of 45.06 feet to a point; thence run S61°43'36"E a distance of 316.07 feet to a point; thence run S21°48'37"E a distance of 96.50 feet to a point; thence run S27°59'12"W a distance of 317.39 feet to a point; thence run N81°34'04"W a distance of 92.80 feet to a point; thence run N56°22'27"W a distance of 458.14 feet to a point; thence run S61°57'56"W a distance of 401.33 feet to a point; thence run S15°15'57"W a distance of 91.13 feet to a point; thence run S89°08'36"W a distance of 27.61 feet to a point; thence run N40°41'25"W a distance of 70.40 feet to a point; thence run S85°30'37"W a distance of 284.31 feet to a point; thence run S47°14'49"W a distance of 86.62 feet to a point; thence run S17°17'09"W a distance of 313.88 feet to a point; thence run S50°32'27"E a distance of 248.70 feet to a point; thence run S52°29'01"E a distance of 181.74 feet to a point; thence run S10°37'27"E a distance of 97.21 feet to a point; thence run S46°52'40"W a distance of 197.19 feet to a point; thence run S64°34'39"W a distance of 173.90 feet to a point; thence run N47°27'49"W a distance of 112.86 feet to a point; thence run N49°48'23"W a distance of 215.23 feet to a point; thence run N84°08'48"W a distance of 48.34 feet to a point; thence run S46°02'22"W a distance of 243.24 feet to a point; thence run N64°26'16"W a distance of 194.00 feet to a point; thence run N81°27'49"W a distance of 102.05 feet to a point; thence run S62°32'55"W a distance of 245.57 feet to a point; thence run N61°41'22"W a distance of 147.04 feet to a point; thence run N88°22'00"W a distance of 303.34 feet to a point; thence run N51°09'47"W a distance of 157.52 feet to a point; thence run N10°42'57"W a distance of 191.52 feet to a point; thence run N21°15'34"E a distance of 236.68 feet to a point; thence run N47°05'09"E a distance of 413.95 feet to a point; thence run N03°42'22"E a distance of 87.88 feet to a point; thence run N54°04'35"E a distance of 108.27 feet to a point; thence run N32°48'48"W a distance of 382.07 feet to a point; thence run N32°29'15"W a distance of 68.65 feet to a point; thence run N13°59'32"W a distance of 121.80 feet to a point; thence run N00°38'25"E a distance of 81.06 feet to a point; thence run N13°13'52"W a distance of 186.62 feet to a point; thence run N37°34'43"E a distance of 271.37 feet to a point; thence run N59°23'26"E a distance of 138.03 feet to a point; thence run N14°18'33"E a distance of 309.60 feet to a point; thence run along the arc of a curve to the left, an arc distance of 242.93 feet to a point, having a radius of 400.00 feet, being subtended by a chord bearing N03°05'23"W and a chord distance of 239.22 feet; thence run N20°29'18"W a distance of 558.21 feet to a point; thence run N23°23'48"W a distance of 181.58 feet to a point; thence run N34°30'14"W a distance of 140.86 feet to a point; thence run along the arc of a curve to the left, an arc distance of 80.08 feet to a point, having a radius of 200.00 feet, being subtended by a chord bearing N45°58'29"W and a chord distance of 79.55 feet; thence run N57°26'44"W a distance of 333.23 feet to a point; thence run along the arc of a curve to the left, an arc distance of 122.51 feet to a point, having a radius of 200.00 feet, being subtended by a chord bearing N74°59'37"W and a chord distance of 120.60 feet; thence run S87°27'30"W a distance of 154.40 feet to a point; thence run along the arc of a curve to the right, an arc distance of 288.10 feet to a point, having a radius of 310.00 feet, being subtended by a chord bearing N65°55'05"W and a chord distance of 277.84 feet; thence run N39°17'40"W a distance of 25.49 feet to a point; thence run along the arc of a curve to the left, an arc distance of 35.40 feet to a point, having a radius of 90.00 feet, being subtended by a chord bearing N50°33'42"W and a chord distance of 35.17 feet; thence run N61°49'45"W a distance of 142.20 feet to a point; thence run N32°27'49"E a distance of 205.88 feet to a point; thence run N32°27'49"E a distance of 236.53 feet to a point; thence run N25°11'25"W a distance of 28.00 feet to a point; thence run N32°27'49"E a distance of 20.00 feet to a point; thence run S87°29'44"E a distance of 27.31 feet to a point; thence run N32°27'49"E a distance of 256.54 feet to a point; thence run N32°27'49"E a distance of 282.44 feet to a point; thence run along the arc of a curve to the left, an arc distance of 194.28 feet to a point, having a radius of 1040.08 feet, being subtended by a chord bearing N27°06'45"E and a chord distance of 193.99 feet; thence run N21°40'02"E a distance of 159.68 feet to a point; thence run N34°42'11"E a distance of 233.23 feet to a point; thence run N84°50'41"E a distance of 205.41 feet to a point; thence run N07°06'55"E a distance of 46.61 feet to a point; thence run N41°39'58"E a distance of 118.70 feet to a point; thence run N68°04'31"E a distance of 128.46 feet to a point, said point being the TRUE POINT OF BEGINNING.

Said tract or parcel of land containing 218.480 acres (9,516,990.41 square feet).



Plant Yates CCR Permit Ash Management Area Ash Pond 3
Call Table No. 1

COURSE	BEARING	DISTANCE
1	S52°07'18"E	366.62'
2	S37°06'35"E	980.75'
3	S38°17'30"E	341.30'
4	S36°39'43"E	141.26'
5	S35°36'34"E	141.26'
6	S34°33'24"E	141.26'
7	S33°30'14"E	141.26'
8	S32°55'51"E	20.43'
9	S32°20'32"E	130.13'
10	S31°22'23"E	130.13'
11	S30°24'13"E	130.13'
12	S29°26'03"E	130.13'
13	S30°49'25"E	111.04'
14	S14°42'08"E	128.97'
15	S00°58'13"E	159.96'
16	S01°08'28"E	333.54'
17	S10°22'12"W	278.35'
18	S17°19'13"W	60.21'
19	S24°13'32"W	228.86'
20	S32°24'54"W	156.33'
21	S43°03'10"W	72.59'
22	S43°56'52"W	136.27'
23	S52°40'45"E	49.05'
24	N89°43'43"E	86.16'
25	S87°37'50"E	358.81'
26	S70°10'05"E	131.77'
27	N69°35'05"E	301.53'
28	N87°20'24"E	294.72'
29	S30°07'03"E	181.67'
30	S59°20'01"W	243.05'
31	S71°01'07"W	145.23'
32	S12°25'22"W	45.06'
33	S61°43'36"E	316.07'
34	S21°48'37"E	96.50'
35	S27°59'12"W	317.39'
36	N81°34'04"W	92.80'
37	N56°22'27"W	458.14'
38	S61°57'56"W	401.33'
39	S15°15'57"W	91.13'
40	S89°08'36"W	27.61'
41	N40°41'25"W	70.40'
42	S85°30'37"W	284.31'
43	S47°14'49"W	86.62'
44	S17°17'09"W	313.88'
45	S50°32'27"E	248.70'
46	S52°29'01"E	181.74'
47	S10°37'27"E	97.21'
48	S46°52'40"W	197.19'
49	S64°34'39"W	173.90'
50	N47°27'49"W	112.86'
51	N49°48'23"W	215.23'
52	N84°08'48"W	48.34'

Plant Yates CCR Permit Ash Management Area Ash Pond 3
Call Table No. 2

COURSE	BEARING	DISTANCE
53	S46°02'22"W	243.24'
54	N64°26'16"W	194.00'
55	N81°27'49"W	102.05'
56	S62°32'55"W	245.57'
57	N61°41'22"W	147.04'
58	N88°22'00"W	303.34'
59	N51°09'47"W	157.52'
60	N10°42'57"W	191.52'
61	N21°15'34"E	236.68'
62	N47°05'09"E	413.95'
63	N03°42'22"E	87.88'
64	N54°04'35"E	108.27'
65	N32°48'48"W	382.07'
66	N32°29'15"W	68.65'
67	N13°59'32"W	121.80'
68	N00°38'25"E	81.06'
69	N13°13'52"W	186.62'
70	N37°34'43"E	271.37'
71	N59°23'26"E	138.03'
72	N14°18'33"E	309.60'
73	Rad 400.00'	Arc 242.93'
	Ch Brg N03°05'23"W	Ch 239.22'
74	N20°29'18"W	558.21'
75	N23°23'48"W	181.58'
76	N34°30'14"W	140.86'
77	Rad 200.00'	Arc 80.08'
	Ch Brg N45°58'29"W	Ch 79.55'
78	N57°26'44"W	333.23'
79	Rad 200.00'	Arc 122.51'
	Chrd: N74°59'37" W	120.60'
80	S87°27'30"W	154.40'
81	Rad 310.00'	Arc 288.10'
	Ch Brg N65°55'05"W	Ch 277.84'
82	N39°17'40"W	25.49'
83	Rad 90.00'	Arc 35.40'
	Ch Brg N50°33'42"W	Ch 35.17'
84	N61°49'45"W	142.20'
85	N32°27'49"E	205.88'
86	N32°27'49"E	236.53'
87	N25°11'25"W	28.00'
88	N32°27'49"E	20.00'
89	S87°29'44"E	27.31'
90	N32°27'49"E	256.54'
91	N32°27'49"E	282.44'
92	Rad 1040.08'	Arc 194.28'
	Ch Brg N27°06'45"E	Ch 193.99'
93	N21°40'02"E	159.68'
94	N34°42'11"E	233.23'
95	N84°50'41"E	205.41'
96	N07°06'55"E	46.61'
97	N41°39'58"E	118.70'
98	N68°04'31"E	128.46'

GRAPHIC SCALE
400 0 200 400 800 1600
(IN FEET)
1 INCH = 400 FEET

CCR PERMIT ASH MANAGEMENT AREA
218.48 ACRES 9,516,990 SQ.FT.

NOTE: NO FIELD WORK WAS PERFORMED

NOTE: BACKGROUND IMPROVEMENTS PER YATES CCR BOUNDARIES DRAWING PROVIDED BY GPC, DATED SEPTEMBER 4, 2018

REFERENCES:

1. GPC DRAWING 2021-5 AMA PERMIT BOUNDARY.

2. PROPOSED CCR PERMIT BOUNDARIES BY ATLANTIC COAST CONSULTING, DATED AUGUST 2018.

SURVEYOR: WILLIAM J. DANIEL III
P.L.S. #2257
LOWE ENGINEERS LLC
990 HAMMOND DRIVE SUITE 900
ATLANTA, GA. 30328
PHONE (770) 857-8400

GEORGIA REGISTERED No. 2257 PROFESSIONAL LAND SURVEYOR III WILLIAM J. DANIEL

I hereby certify that this survey has been prepared in conformity with The Technical Standards for Property Surveys in Georgia as set forth in Chapter 180-7 on the Rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in the Georgia Plat Act O.C.G.A. 15-6-67.

And further certify that according to Georgia Code Section 15-6-67(d), this plat is not required to be reviewed by any local governing authorities prior to recording. Per said section, "No approval shall be required if no new streets or roads are created or no new utility improvements are required or no new sanitary sewer or approval of a septic tank is required." No such improvements are required hereon.

Date: June 29, 2021

PERMIT BOUNDARY & LEGAL DESCRIPTION

CLOSURE DRAWINGS

FOR
GEORGIA POWER
PLANT YATES
ASH MANAGEMENT AREA
COWETA COUNTY, GEORGIA

SHEET 3 OF 10

PATH – T:\Working2\Ash\Yates\2018090027 Plant Yates – Ash Pond CCR Permitting – Surveying Support

GEORGIA POWER CO., ATLANTA, GA.
Land Department

Survey of
Plant Yates – Ash Management Area
Permitted Site Boundary
LAND LOTS 21, 22, 43 & 44, 4TH DISTRICT, COWETA COUNTY, GEORGIA

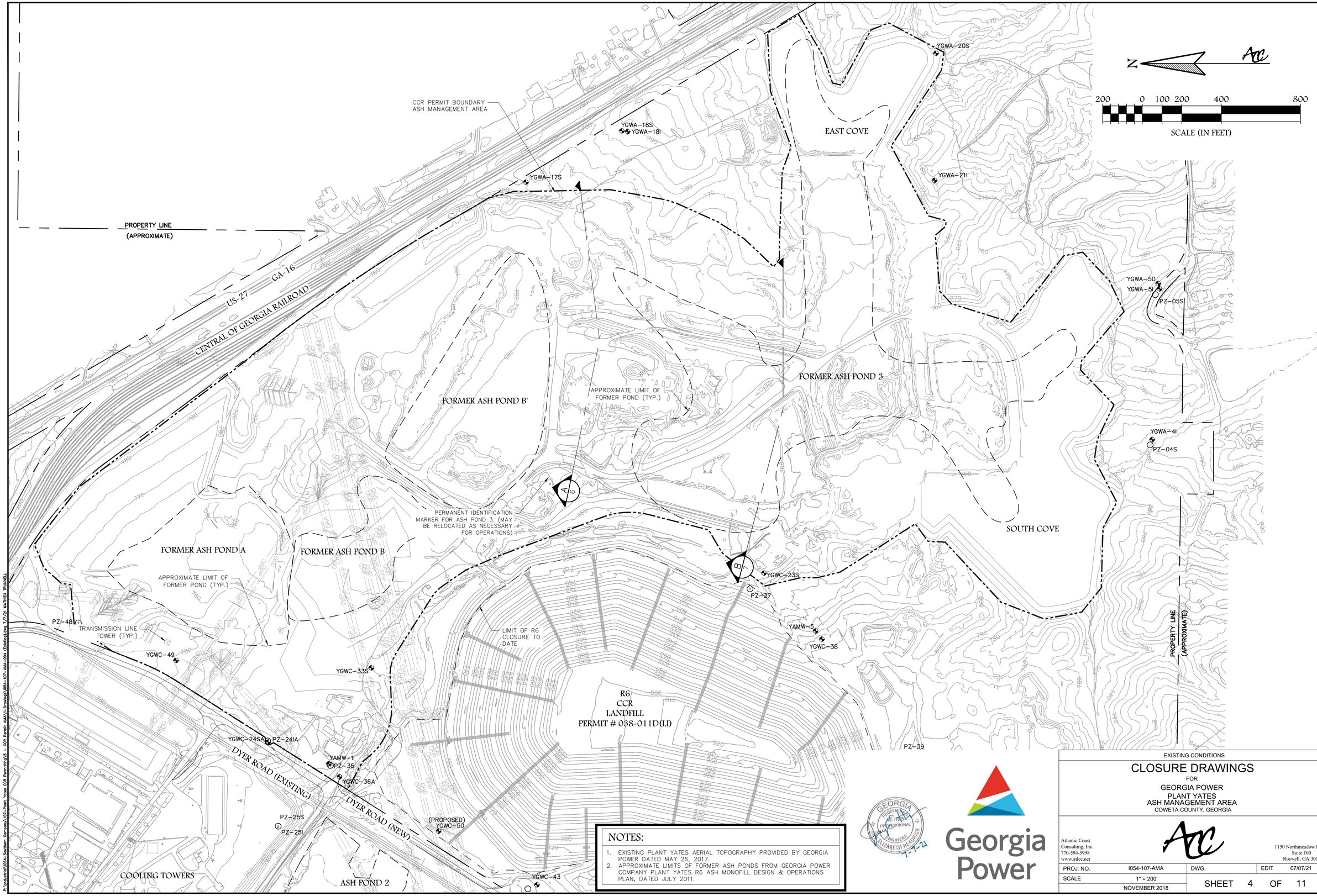
DR.	TR.	Checked
DE		WJDIII
SCALE 1" = 400'		DATE 10.19.2018

DRAWING NUMBER
P469-8(4)

APPROVALS

REVISION BLOCK
06.29.2021 SSHC DATES PER CLIENT REQUEST
08.13.2021 HSH PWTS PER CLIENT

P:\Industrial\GS4-Southern Company\107-Plant Yates CCR Permitting\3 – CCR Permit AMA\1-Drawings\GS4-107-AMA-003 (Boundary).dwg 7/6/21 MATHED TRUNELL



NOTES:

1. EXISTING PLANT YATES AERIAL TOPOGRAPHY PROVIDED BY GEORGIA POWER DATED MAY 26, 2017.
2. APPROXIMATE LIMITS OF FORMER ASH PONDS FROM GEORGIA POWER COMPANY PLANT YATES R6 ASH MONOFILL DESIGN & OPERATIONS PLAN, DATED JULY 2011.

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-1-21

Georgia Power

EXISTING CONDITIONS

CLOSURE DRAWINGS

FOR

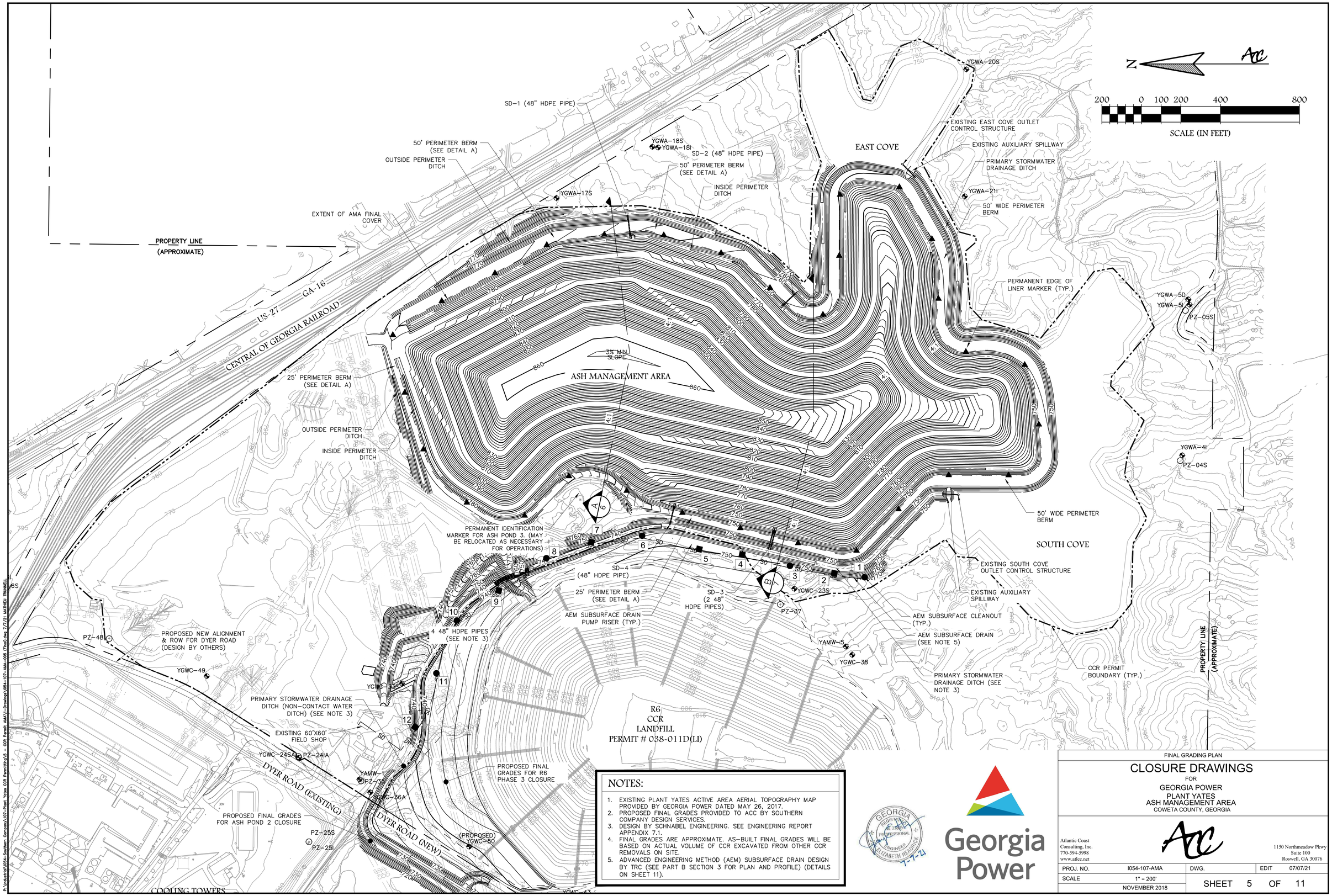
GEORGIA POWER
PLANT YATES
ASH MANAGEMENT AREA
COWETA COUNTY, GEORGIA

Atlantic Coast Consulting, Inc.
770-594-5998
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1150 Northmeadow Pkwy
Suite 100
Roswell, GA 30076

PROJ. NO.	I054-107-AMA	DWG.	EDIT 07/07/21
SCALE	1" = 200'	SHEET 4 OF 11	
	NOVEMBER 2018		

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NOTES:

1. EXISTING PLANT YATES ACTIVE AREA AERIAL TOPOGRAPHY MAP PROVIDED BY GEORGIA POWER DATED MAY 26, 2017.
2. PROPOSED FINAL GRADES PROVIDED TO ACC BY SOUTHERN COMPANY DESIGN SERVICES.
3. DESIGN BY SCHNABEL ENGINEERING. SEE ENGINEERING REPORT APPENDIX 7.1.
4. FINAL GRADES ARE APPROXIMATE. AS-BUILT FINAL GRADES WILL BE BASED ON ACTUAL VOLUME OF CCR EXCAVATED FROM OTHER CCR REMOVALS ON SITE.
5. ADVANCED ENGINEERING METHOD (AEM) SUBSURFACE DRAIN DESIGN BY TRC (SEE PART B SECTION 3 FOR PLAN AND PROFILE) (DETAILS ON SHEET 11).

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-7-21

Georgia Power

FINAL GRADING PLAN

CLOSURE DRAWINGS

FOR

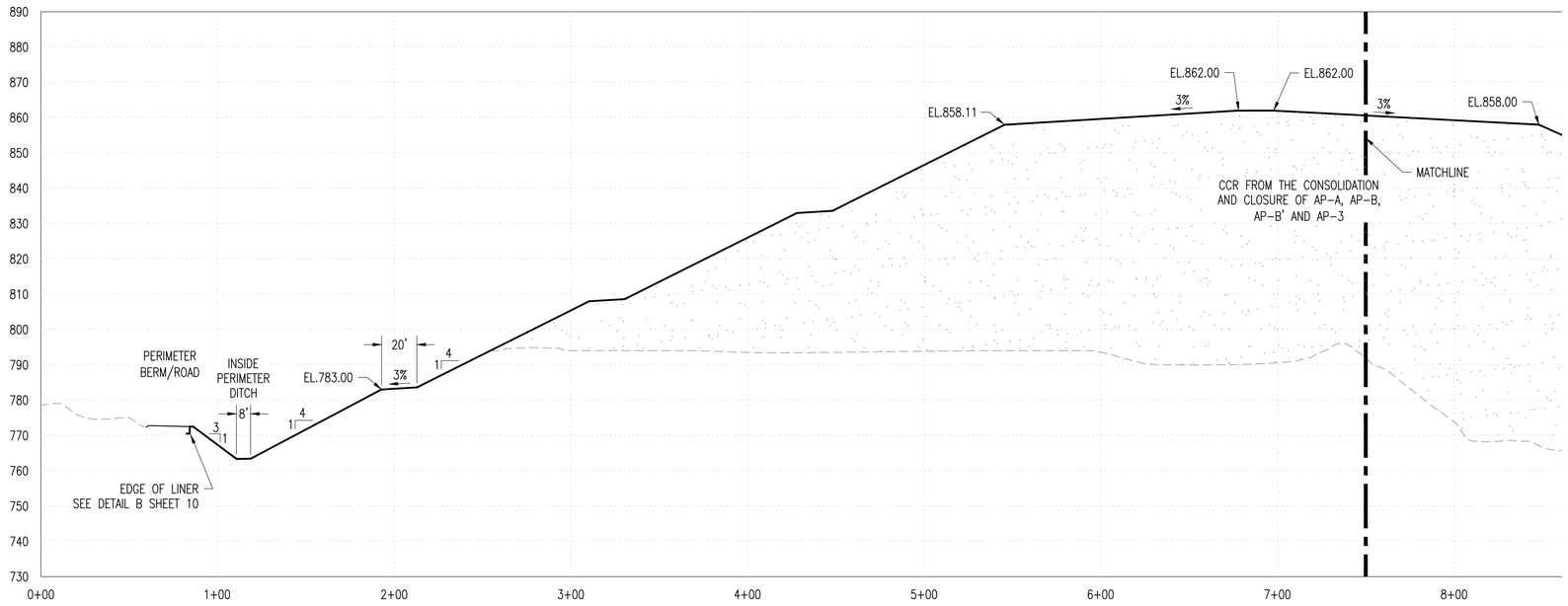
GEORGIA POWER
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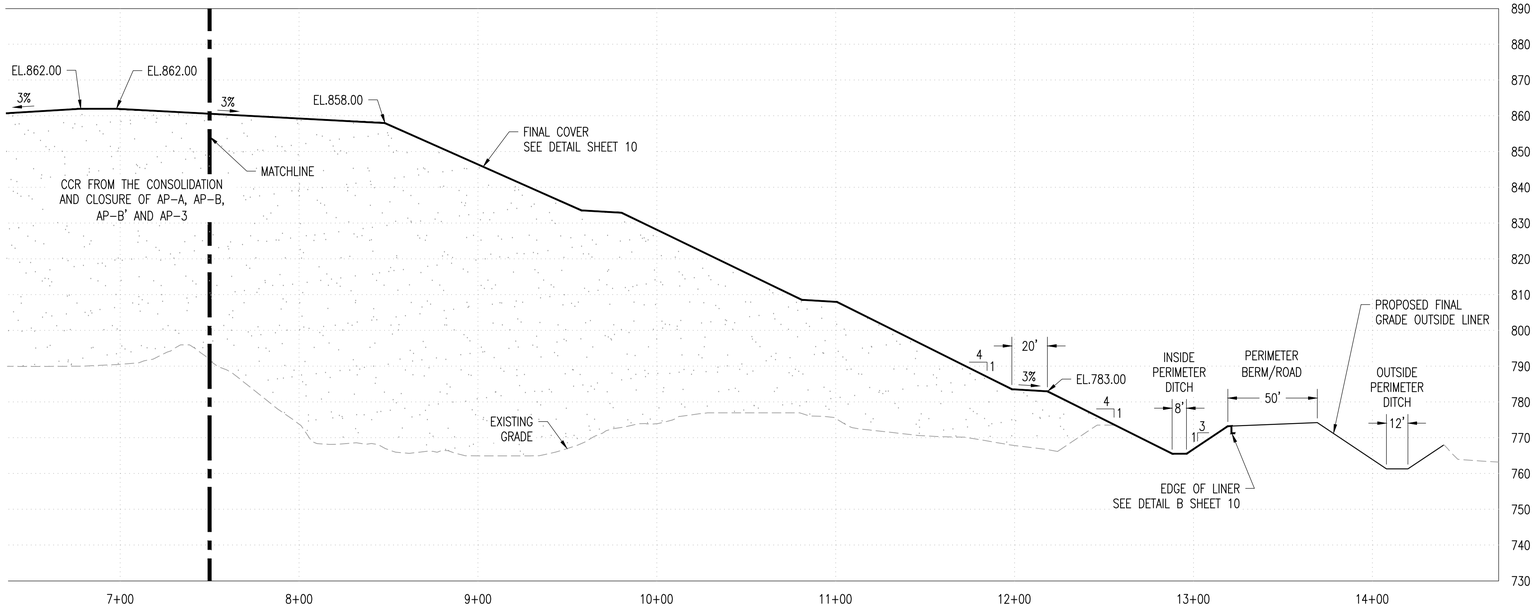
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SCALE	1" = 200'	SHEET 5 OF 11	
NOVEMBER 2018			

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SECTION A

SCALE H: 1"= 40', V: 1"=20'



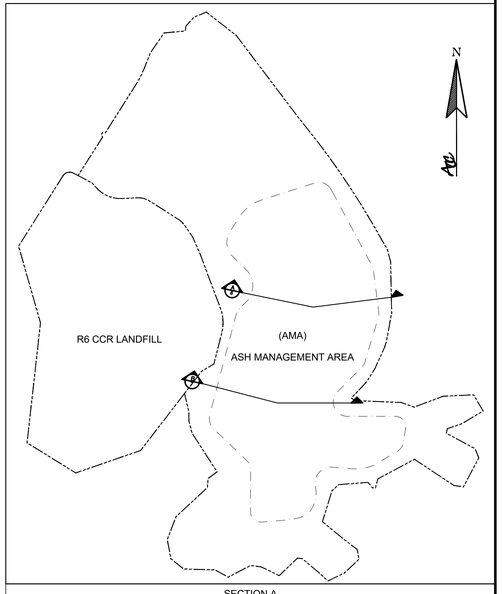
SECTION A

SCALE H: 1"= 40', V: 1"=20'

NOTES:

1. EXISTING GROUND FROM PLANT YATES AERIAL TOPOGRAPHY PROVIDED BY GEORGIA POWER DATED MAY 26, 2017.
2. THE ASH MANAGEMENT AREA IS CURRENTLY BEING CONSOLIDATED AND CLOSED IN PLACE AND CONTAINS CCR FROM ASH POND-1, ASH POND-2, ASH POND-A AND ASH POND-B. THE FINAL CONSOLIDATED FOOTPRINT OF THE ASH MANAGEMENT AREA WILL BE CONFINED BY THE PERIMETER BERM ROAD AND WILL BE CAPPED WITH CLOSURETURF FINAL COVER SYSTEM.

AMA SECTION KEY



SECTION A

CLOSURE DRAWINGS

FOR

GEORGIA POWER
PLANT YATES
ASH MANAGEMENT AREA
COWETA COUNTY, GEORGIA

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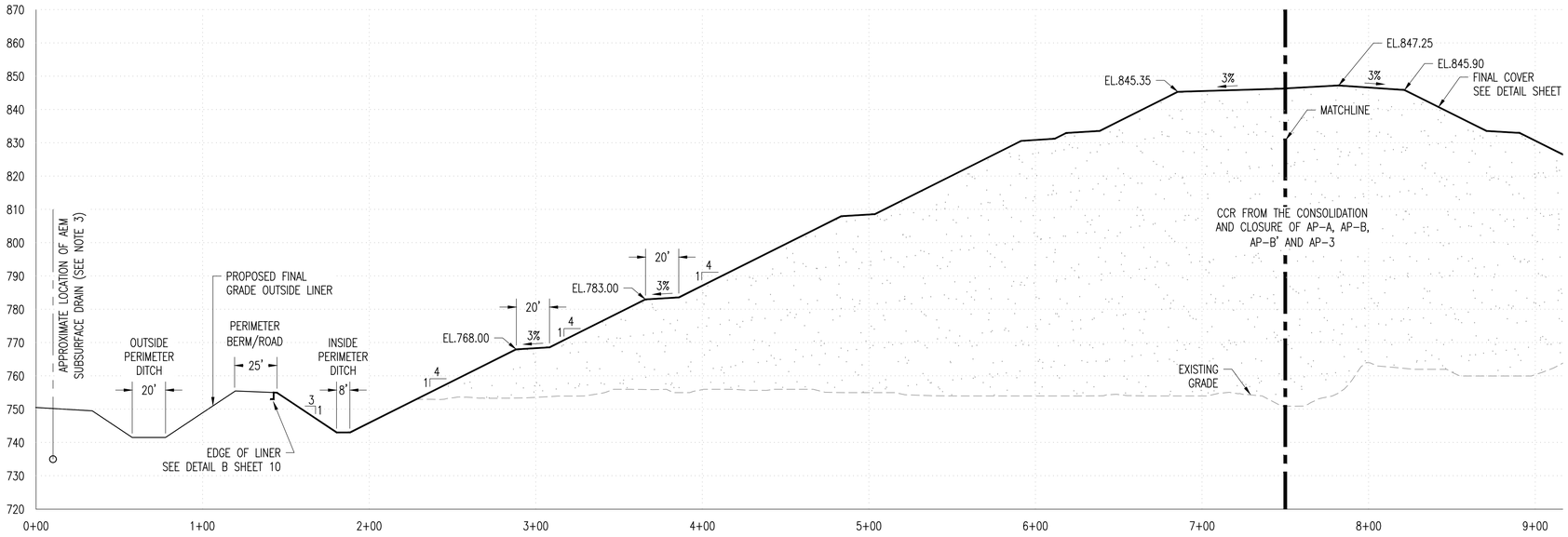
1150 Northmeadow Pkwy
Suite 100
Roswell, GA 30076

PROJ. NO.	I054-107-AMA	DWG.	EDIT 07/07/21
SCALE	N/A	SHEET 6 OF 11	
	NOVEMBER 2018		

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-7-21

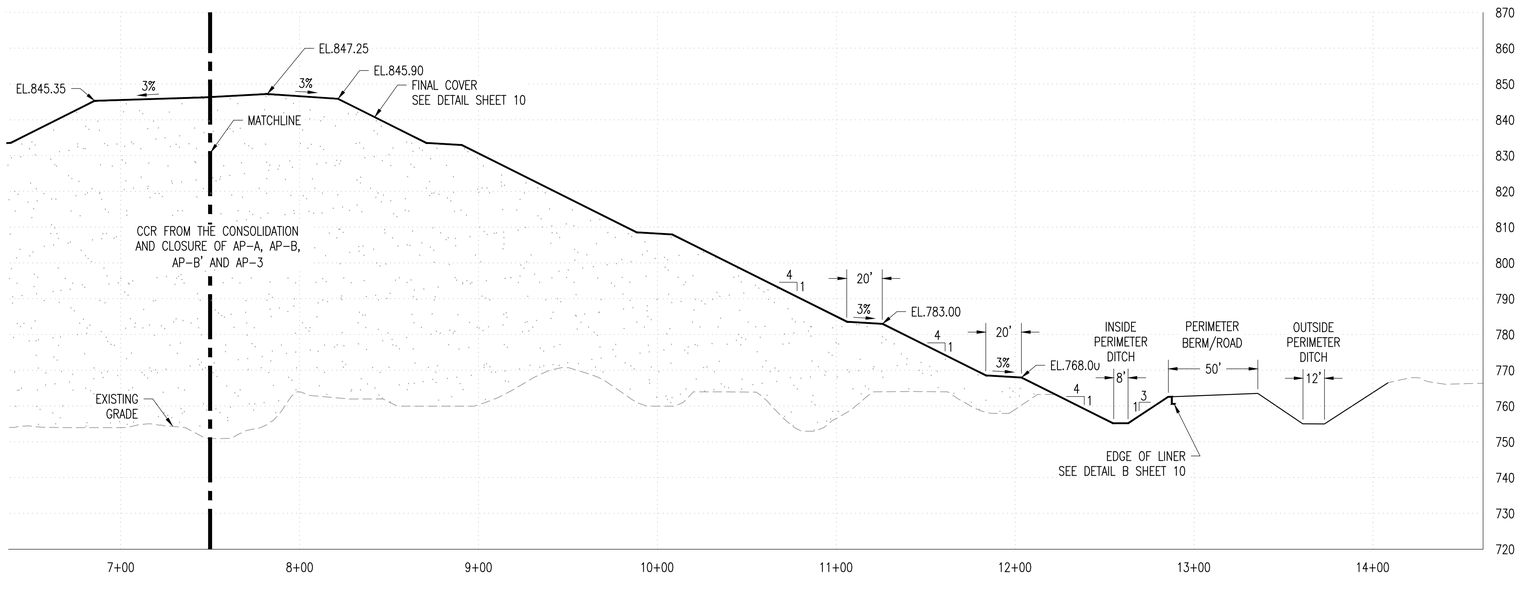
Georgia Power

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SECTION B

SCALE H: 1"= 40', V: 1"=20'



SECTION B

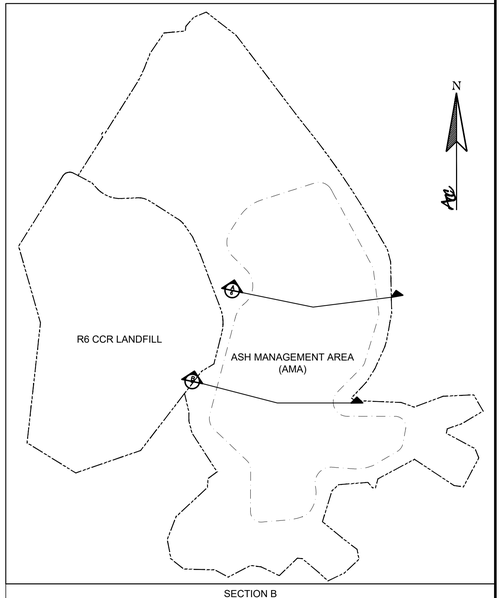
SCALE H: 1"= 40', V: 1"=20'

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NOTES:

1. EXISTING GROUND FROM PLANT YATES AERIAL TOPOGRAPHY PROVIDED BY GEORGIA POWER DATED MAY 26, 2017.
2. THE ASH MANAGEMENT AREA IS CURRENTLY BEING CONSOLIDATED AND CLOSED IN PLACE AND CONTAINS CCR FROM ASH POND-1, ASH POND-2, ASH POND-A AND ASH POND-B. THE FINAL CONSOLIDATED FOOTPRINT OF THE ASH MANAGEMENT AREA WILL BE CONFINED BY THE PERIMETER BERM ROAD AND WILL BE CAPPED WITH CLOSURETURF FINAL COVER SYSTEM.
3. ADVANCED ENGINEERING METHOD (AEM) SUBSURFACE DRAIN DESIGN BY TRC (SEE PART B SECTION 3 FOR PLAN AND PROFILE).

AMA SECTION KEY



SECTION B

CLOSURE DRAWINGS

FOR

GEORGIA POWER

PLANT YATES

ASH MANAGEMENT AREA

COWETA COUNTY, GEORGIA

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Roswell, GA 30076

PROJ. NO.	I054-107-AMA	DWG.	EDIT 07/07/21
SCALE	N/A	SHEET 7 OF 11	
	NOVEMBER 2018		

NOTES:

1. EXISTING PLANT YATES ACTIVE AREA AERIAL TOPOGRAPHY MAP PROVIDED BY GEORGIA POWER DATED MAY 26, 2017.
2. PROPOSED FINAL GRADES PROVIDED BY SOUTHERN COMPANY DESIGN SERVICES.
3. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA." STORMWATER CONTROLS AND BEST MANAGEMENT PRACTICES SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
4. STORM WATER DISCHARGES ASSOCIATED WITH CLOSURE ACTIVITIES WILL BE COVERED UNDER THE APPLICABLE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, NPDES INDUSTRIAL STORMWATER DISCHARGE GENERAL PERMIT AND/OR THE FACILITY'S NPDES INDUSTRIAL WASTEWATER DISCHARGE INDIVIDUAL PERMIT.
5. STATE WATERS BUFFERS SHALL REMAIN UNDISTURBED, EXCEPT WHERE ENCROACHMENT IS REQUIRED TO FACILITATE CLOSURE ACTIVITIES. UNLESS OTHERWISE EXEMPTED BY THE APPROPRIATE NPDES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT, A STATE WATERS BUFFER VARIANCE SHALL BE OBTAINED FROM GEORGIA EPD'S WATERSHED PROTECTION BRANCH PRIOR TO BUFFER ENCROACHMENT. GEORGIA EPD'S SOLID WASTE MANAGEMENT BRANCH SHALL BE NOTIFIED WHEN GEORGIA POWER ENVIRONMENTAL AFFAIRS APPLIES FOR A STATE WATERS BUFFER VARIANCE. CONTACT GEORGIA POWER ENVIRONMENTAL AFFAIRS FOR ASSISTANCE.
6. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES FOR THIS PROJECT, THE PERMITTED BOUNDARY, THE LIMITS OF DISTURBANCE AND ALL WETLANDS AND STATE WATERS BUFFERS WITHIN 200 FEET OF THE LIMITS OF DISTURBANCE OR WITHIN THE PROPERTY BOUNDARY (WHICHEVER IS CLOSER) SHALL BE CLEARLY FLAGGED AND STAKED. THESE MARKINGS SHALL BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION / CLOSURE ACTIVITIES. SHOULD ANY OF THE MARKINGS BE DISTURBED, THE CONTRACTOR SHALL NOTIFY GEORGIA POWER COMPANY IMMEDIATELY. ALL CONSTRUCTION PERSONNEL SHALL BE SHOWN THE LOCATION OF THE LIMITS OF DISTURBANCE, STATE WATER BUFFERS, STATE WATERS AND WETLANDS OUTSIDE THE LIMITS OF DISTURBANCE TO PREVENT HEAVY EQUIPMENT ENCROACHMENT INTO THESE AREAS.

N

200 0 100 200 400 800

SCALE (IN FEET)

Cd CHECK DAM COMPOST FILTER SOCK (TYP.)
50' PERIMETER BERM (SEE DETAIL A)
OUTSIDE PERIMETER DITCH
St STORM OUTLET PROTECTION (TYP.)
EXTENT OF AMA FINAL COVER
Ch-2 CHANNEL STABILIZATION
INSIDE PERIMETER DITCH
YGWA-17S
YGWA-18S
YGWA-18I
YGWA-20S
EAST COVE
Ds3 ALL DISTURBED AREAS
PRIMARY STORMWATER DRAINAGE DITCH
YGWA-21I
50' WIDE PERIMETER BERM
YGWA-5D
YGWA-5I
PZ-05S
YGWA-4I
PZ-04S
US-27
GA-16
CENTRAL OF GEORGIA RAILROAD
Sd1-C SILT FENCE
25' PERIMETER BERM (SEE DETAIL A)
3% MIN. SLOPE
ASH MANAGEMENT AREA
Du
Ds1 Ds2
ALL DISTURBED AREAS
4:1
OUTSIDE PERIMETER DITCH
INSIDE PERIMETER DITCH
Cd CHECK DAM COMPOST FILTER SOCK (TYP.)
PERMANENT IDENTIFICATION MARKER FOR ASH POND 3. (MAY BE RELOCATED AS NECESSARY FOR OPERATIONS)
SOUTH COVE
50' WIDE PERIMETER BERM
25' PERIMETER BERM (SEE DETAIL A)
YGWC-23S
PZ-37
YAMW-5
DRAINAGE WINDOW
YGWC-38
PRIMARY STORMWATER DRAINAGE DITCH (SEE NOTE 3)
CCR PERMIT BOUNDARY (TYP.)
PZ-48
PROPOSED NEW ALIGNMENT & ROW FOR DYER ROAD (DESIGN BY OTHERS)
YGWC-49
YGWC-33S
PRIMARY STORMWATER DRAINAGE DITCH (NON-CONTACT WATER DITCH) (SEE NOTE 3)
EXISTING 60'X60' FIELD SHOP
YGWC-24SA
PZ-24IA
DRAINAGE WINDOW
YAMW-1
PZ-23I
YGWC-36A
Co CONSTRUCTION EXIT
DYER ROAD (EXISTING)
DYER ROAD (NEW)
PROPOSED FINAL GRADES FOR ASH POND 2 CLOSURE
PZ-25S
PZ-25I
(PROPOSED) YGWC-50
YGWC-43
YAMW-3
YGWC-42
YAMW-4
YGWC-41
R6 CCR LANDFILL PERMIT # 038-011D(LI)
PROPOSED FINAL GRADES FOR R6 PHASE 3 CLOSURE
COOLING TOWERS

P:\Industrial\054-Southern Company\107-Plant Yates CCR Permitting\5 - CCR Permit AMA\1-Drawings\054-107-AMA-008 (E&S).dwg 7/7/21 MATHEU TRUNNELL

EROSION & SEDIMENTATION CONTROL PLAN

CLOSURE DRAWINGS

FOR

GEORGIA POWER
PLANT YATES
ASH MANAGEMENT AREA
COWETA COUNTY, GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HOLDRICK 7-7-21

Georgia Power

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Roswell, GA 30076

PROJ. NO.	I054-107-AMA	DWG.	EDIT 07/07/21
SCALE	1" = 200'	SHEET 8 OF 11	
	NOVEMBER 2018		

DEFINITION
APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

REQUIREMENT FOR REGULATORY COMPLIANCE
MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

IF ANY AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2–DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), AND Ds3 – DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING).

SPECIFICATIONS
MULCHING WITHOUT SEEDING:
THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

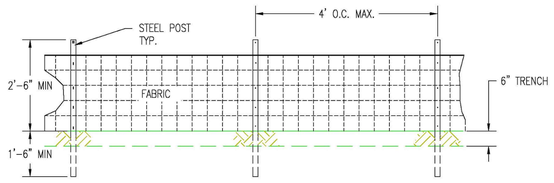
SITE PREPARATION:
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS
SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:
1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC FROM THE CLEARING STAGE OF DEVELOPMENT REMAIN SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE–USED.

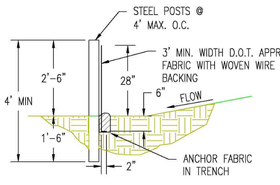
APPLYING MULCH
WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITHPERENNIAL VEGETATION, 20–30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH
1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER–TYPE EQUIPMENT MAY BE ANCHORED. TACKIFERS, BINDERS AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. REFER TO MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, SPECIFICATION TAC–TACKIFERS. PLASTIC MESH OF NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) Ds1

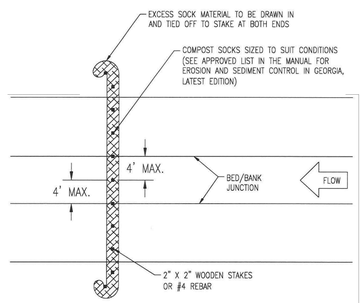


TYPICAL SILT FENCE FRONT VIEW Sd1–C
N.T.S.



MAINTENANCE:
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.

Sd1–C TYPICAL SILT FENCE DETAIL TYPE "C"
N.T.S.

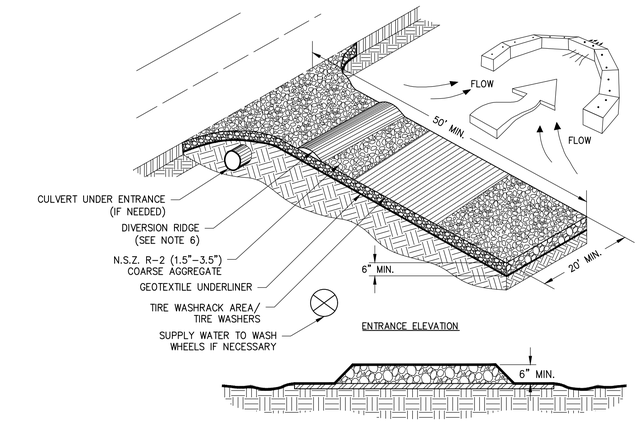


TYPICAL PLAN

NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. PLACE ONE STAKE AT THE CENTER OF THE DITCH/CHANNEL. ALSO PLACE STAKES AT THE BED/BANK JUNCTION AND AT END OF THE DEVICE NOT SPACED MORE THAN 4 FEET APART.
3. CHECK DAMS CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
4. MINIMUM STAKING DEPTH FOR SAND, SILT, AND CLAY SHALL BE 18".

MAINTENANCE
1. PERIODIC INSPECTION AND MAINTENANCE REQUIRED.
2. REMOVE SEDIMENT WHEN IT REACHES A DEPTH OF ONE–HALF THE ORIGINAL DAM HEIGHT.
3. REMOVE AT THE COMPLETION OF ITS USEFUL LIFE.

CHECK DAM - COMPOST SOCKS Cd
N.T.S.



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 BASIN (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 REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CONSTRUCTION EXIT Co
N.T.S.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES BROADCAST	RATES	PLANTING DATES (J F M A M J J A S O N D)	COMMENTS
BARLEY ALONE	144 LBS./AC.		WINTER HARDY, USE ON PRODUCTIVE SOILS
BARLEY IN MIXTURE	24 LBS./AC.		
LESPEDEZA, ANNUAL ALONE	40 LBS./AC.		MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT EL.
LESPEDEZA, ANNUAL IN MIXTURE	10 LBS./AC.		
LOVEGRASS, WEEPING ALONE LOVEGRASS, WEEPING IN MIXTURE	4 LBS./AC. 2 LBS./AC		MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
MILLET, BROWNTOP ALONE	40 LBS./AC		QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
MILLET, BROWNTOP IN MIXTURE	10 LBS./AC		
MILLET, PEARL ALONE	50 LBS./AC		QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
OATS ALONE	128 LBS./AC		USE ON PRODUCTIVE SOILS. NOT AS WINTER HARDY AS RYE OR BARLEY.
OATS IN MIXTURE	32 LBS./AC		
RYE ALONE	168 LBS./AC		QUICK COVER. DROUGHT TOLERANT AND WINTER HARDY.
RYE IN MIXTURE	28 LBS./AC		
RYEGRASS, ANNUAL ALONE	40 LBS./AC		DENSE COVER, VERY COMPETITIVE AND NOT TO BE USED IN MIXTURES.
SUDANGRASS ALONE	60 LBS./AC		GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
TRITICALE ALONE	144 LBS./AC		USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
TRITICALE IN MIXTURE	24 LBS./AC		
WHEAT ALONE	180 LBS./AC		WINTER HARDY.
WHEAT W/OTHER PERENNIALS	30 LBS./AC		

SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2

FERTILIZER REQUIREMENTS

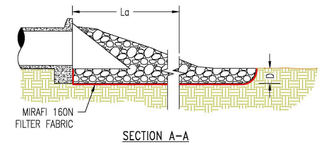
WARM SEASON GRASSES			
YEAR	EQUIVALENT N–P–K	ANALYSIS OR RATE	N TOP DRESSING RATE
FIRST	6–12–12	1500 LBS./AC.	50–100 LBS./AC. 2/6/
SECOND	6–12–12	800 LBS./AC.	50–100 LBS./AC. 2/
MAINTENANCE	10–10–10	400 LBS./AC.	30 LBS./AC.
COOL SEASON GRASSES			
YEAR	EQUIVALENT N–P–K	ANALYSIS OR RATE	N TOP DRESSING RATE
FIRST	6–12–12	1500 LBS./AC.	50 LBS./AC./6/
SECOND	0–10–10	1000 LBS./AC.	-------
MAINTENANCE	0–10–10	400 LBS./AC.	-------

PLANT, PLANTING RATE & PLANTING DATE FOR PERMANENT COVER

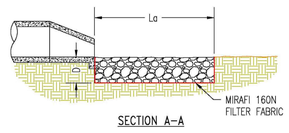
SPECIES	BROADCAST RATES	PLANTING DATES (J F M A M J J A S O N D)	PLANTING DATE REMARKS
LESPEDEZA SERICEA SCARIFIED	60 LBS./AC		WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH COMMON BERMUDA OR TALL FESCUE. INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA SERICEA UNSCARIFIED	75 LBS./AC		MIX WITH TALL FESCUE.
PENSACOLA BAHIA ALONE OR WITH TEMPORARY COVER	60 LBS./AC		LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA.
WILMINGTON BAHIA WITH OTHER PERENNIALS	30 LBS./AC		
TALL FESCUE ALONE	50 LBS./AC		USE ALONE ONLY ON BETTER SITES. MIX WITH PERENNIAL LESPEDEZA OR CROWNVETCH. APPLY TOP DRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
TALL FESCUE WITH OTHER PERENNIALS	30 LBS./AC		
REED CANARY GRASS ALONE	50 LBS./AC		
REED CANARY GRASS WITH OTHER PERENNIALS	30 LBS./AC		GROWS SIMILAR TO TALL FESCUE.
COMMON BERMUDA UNHULLED SEED WITH TEMPORARY COVER	10 LBS./AC		PLANT WITH WINTER ANNUALS
COMMON BERMUDA UNHULLED SEED W/OTHER PERENNIALS	6 LBS./AC		PLANT WITH TALL FESCUE.

SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) Ds3

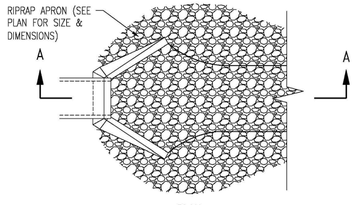


SECTION A–A



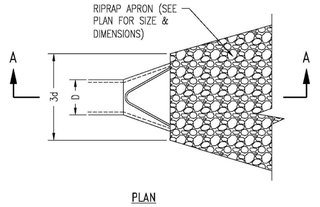
SECTION A–A

NOTES:
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 THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.
5. FOR VELOCITIES UP TO 6.5 FPS, USE GDOT TYPE 3 WITH #57 FILTER BEDDING STONE.
6. FOR VELOCITIES OVER 6.5 FPS, CONSULT TABLE C–1.



PLAN

PIPE OUTLET TO WELL–DEFINED CHANNEL



PLAN

PIPE OUTLET TO FLAT AREA – NO WELL–DEFINED CHANNEL

STORM OUTLET PROTECTION St
N.T.S.

DEFINITION
TACKIFIERS ARE USED AS A TIE–DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS TO FORM A HOMOGENOUS SLURRY.

PURPOSE
TO REDUCE SOIL EROSION FROM WIND AND WATER ON CONSTRUCTION SITES. OTHER BENEFITS INCLUDE SOIL INFILTRATION, SOIL FERTILITY, ENHANCED SEED GERMINATION, INCREASED SOIL COHESION, ENHANCED SOIL STABILIZATION, REDUCED STORMWATER RUNOFF TURBIDITY AND REDUCTION IN LESS OF TOPSOIL.

CONDITIONS
THIS PRACTICE IS INTENDED FOR DIRECT SOIL SURFACE APPLICATION TO SITES WHERE THE TIMELY ESTABLISHMENT OF VEGETATION MAY NOT BE FEASIBLE OR WHERE VEGETATION COVER IS ABSENT OR INADEQUATE. SUCH AREAS INCLUDE CONSTRUCTION AREAS, WHERE PLANT RESIDUES ARE INADEQUATE TO PROTECT THE SOIL SURFACE AND WHERE LAND DISTURBING ACTIVITIES PREVENT THE ESTABLISHMENT OR MAINTENANCE OF A VEGETATIVE COVER.

CRITERIA
TYPE I TACKIFIERS: SYNTHETIC POLYMERS Tac–1
- APPLICATION RATES SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATION.
- ONLY ANIONIC FORMS OF PAM SHALL BE USED. ANIONIC PAMs SHALL BE NO MORE THAN 0.05% ACRYLAMIDE MONOMER BY WEIGHT, AS ESTABLISHED BY THE FOOD AND DRUG ADMINISTRATION AND THE ENVIRONMENTAL PROTECTION AGENCY.
- NOT HARMFUL TO PLANTS, ANIMALS AND AQUATIC LIFE.
- CONTAIN NO GROWTH OR GERMINATION INHIBITING MATERIALS.
- SHALL NOT REDUCE INFILTRATION RATES.

MAINTENANCE
TACKIFIED AREAS SHOULD BE CHECKED AFTER EVERY RAIN EVENT. PERIODIC INSPECTIONS AND REQUIRED MAINTENANCE MUST BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS.

TACKIFIERS Tac

DEFINITION
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

CONDITIONS
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF–SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS
A. TEMPORARY METHODS
MULCHES. SEE STANDARD Ds1 – DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION TAC–TACKIFIERS IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

VEGETATIVE COVER. SEE SPECIFICATION Ds2 – DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

S[RAU–ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO SPECIFICATION TAC–TACKIFIERS IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

DUST CONTROL ON DISTURBED AREAS Du

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING–TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS. SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACES AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS
PERMANENT VEGETATION. SEE SPECIFICATION Ds3 – DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION. EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE SPECIFICATION Tp – TOPSOILING IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr – CONSTRUCTION ROAD STABILIZATION.

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-7-21

Georgia Power

EROSION CONTROL DETAILS

CLOSURE DRAWINGS
FOR
GEORGIA POWER
PLANT YATES
ASH MANAGEMENT AREA
COWETA COUNTY, GEORGIA

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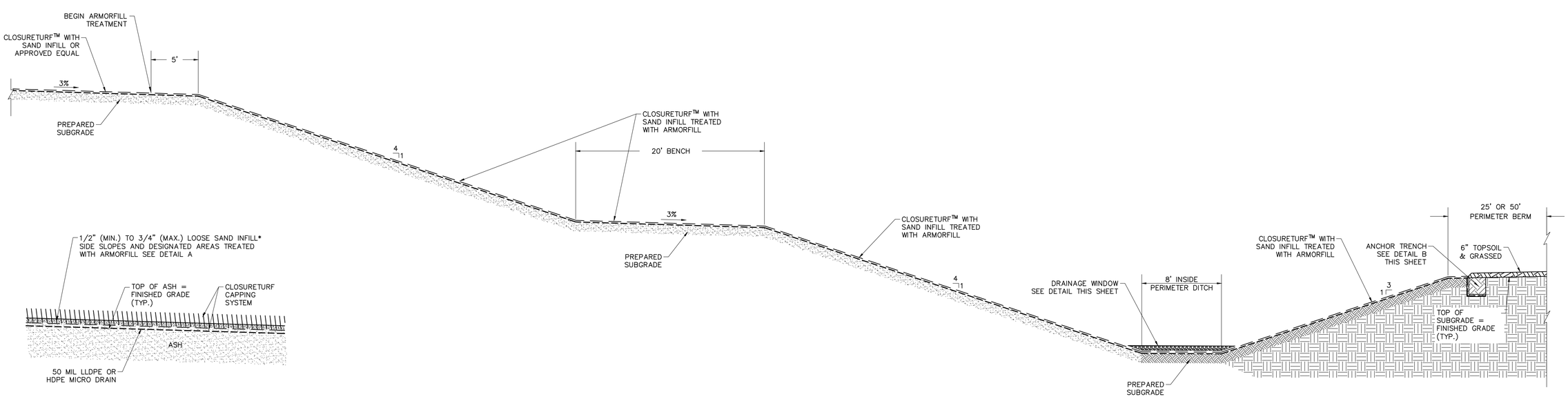
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SCALE	N/A	SHEET 9 OF 11	
	NOVEMBER 2018		

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* INFILL TO BE ASTM C-33 SAND

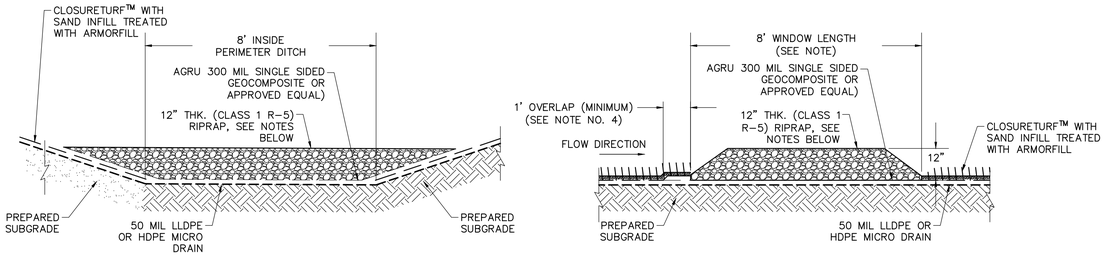
CLOSURE TURF CAPPING SYSTEM DETAIL

N.T.S.



DETAIL A - TYPICAL SLOPE SECTION

N.T.S.



FRONT VIEW

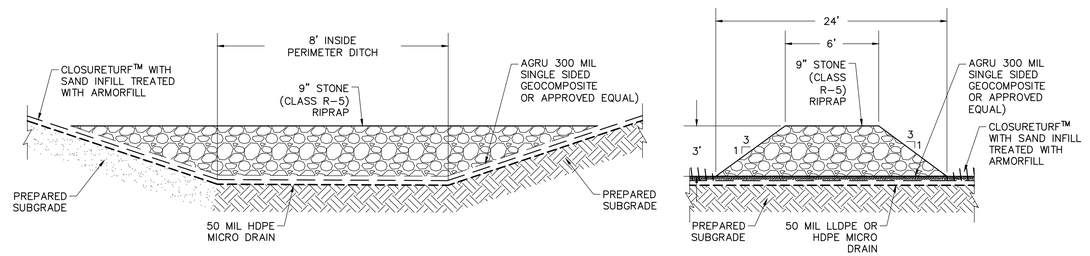
SIDE VIEW

NOTES:

1. DRAINAGE WINDOWS SHALL BE 8' WIDE X 8' LONG, SHALL BE SPACED 200' C.T.C. UNLESS OTHERWISE INDICATED, AND CONSTRUCTED IN THE CHANNEL BOTTOM ONLY.
2. CHANNEL SIDE SLOPES, CLOSURETURF WITH ARMORFILL TREATMENT, AND 50 MIL LLDPE OR HDPE MICRO DRAIN LINER SHALL NOT BE DAMAGED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE PURCHASER'S SATISFACTION.
3. THE SINGLE SIDED GEOCOMPOSITE SHALL BE PLACED WITH THE GEOGRID SIDE DOWN AND THE GEOTEXTILE SIDE UP.
4. CONTRACTOR SHALL ASSURE THAT THE CLOSURETURF WITH ARMORFILL TREATMENT OVERLAPS THE GEOCOMPOSITE BY A MINIMUM OF 1 FOOT ON THE UPSTREAM FACE ONLY.

DRAINAGE WINDOW DETAIL

N.T.S.

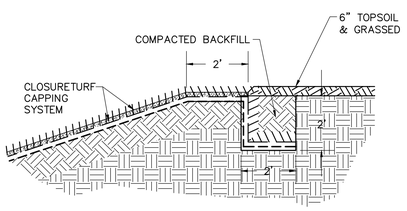


FRONT VIEW

SIDE VIEW

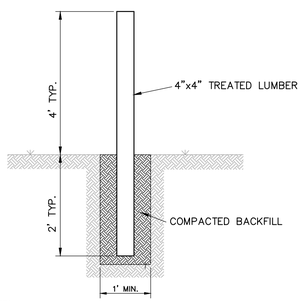
CHECK DAM DETAIL

N.T.S.



DETAIL B ~ ANCHOR TRENCH

N.T.S.



NOTES:

MARKERS SHALL BE SPACE APPROXIMATLEY 300-FEET APART.

LINER EDGE MARKER

N.T.S.

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-1-21

Georgia Power

CLOSURE DETAILS

CLOSURE DRAWINGS

FOR

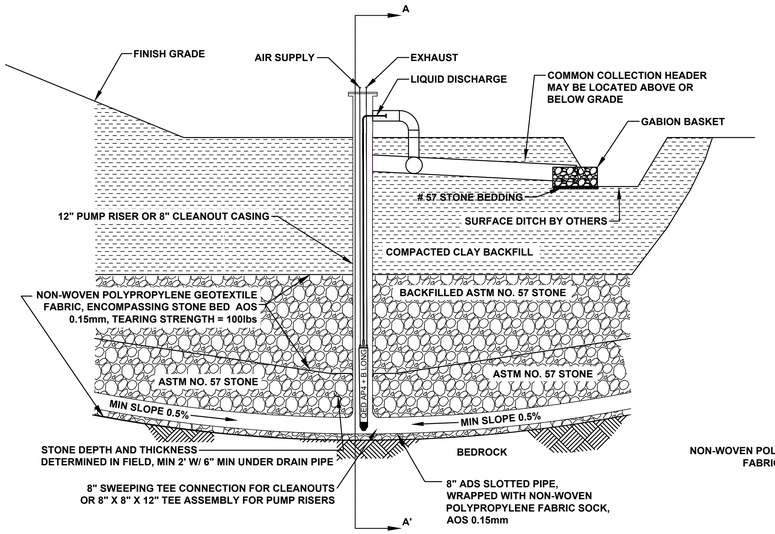
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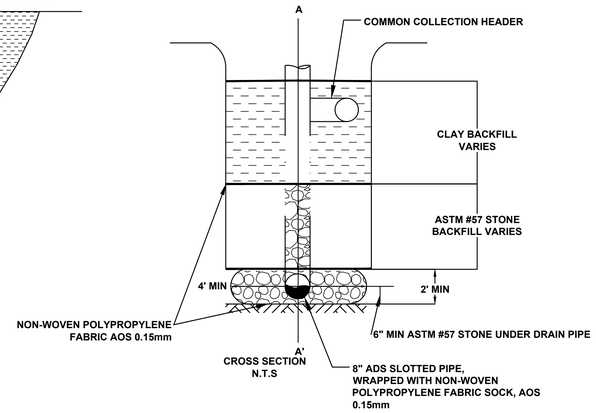
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	NOVEMBER 2018		

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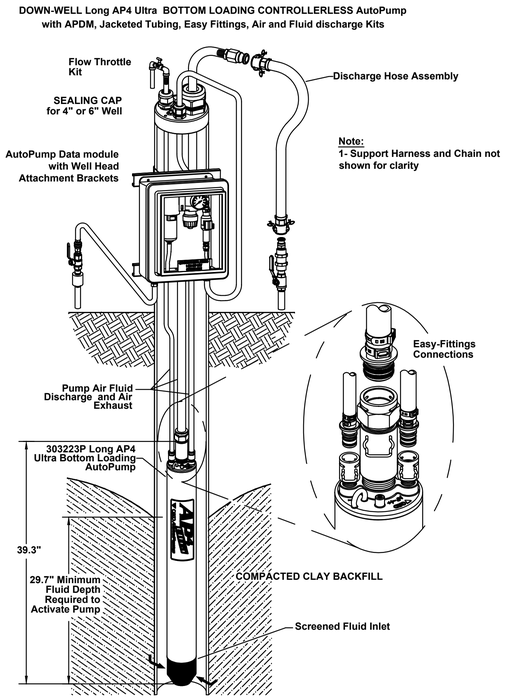


WELL RISER AND COMMON HEADER DETAIL

SCALE = NOT TO SCALE

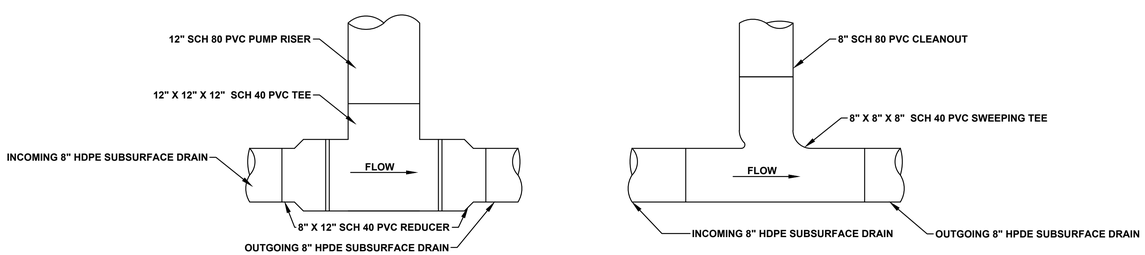


1. RISER WELL HEAD DETAILS NOT SHOWN INCLUDING ENCLOSURES, REGULATOR, CYCLE COUNTER, ETC.
2. CERTAIN 12-INCH RISERS MAY HAVE MULTIPLE PUMPS
3. CERTAIN 8-INCH CLEANOUTS MAY HAVE A PUMP
4. BURIED DISCHARGE LINES MAY BE TERMINATED WITH A TEE DIFFUSER.
5. SIZE OF AIR SUPPLY & PUMP DISCHARGE LINES TBD.



LONG AP4 ULTRA BOTTOM LOADING PUMP QED ENVIRONMENTAL SYSTEMS LTD.

SCALE = NOT TO SCALE



PUMP RISER AND CLEANOUT CONNECTION DETAIL

SCALE = NOT TO SCALE

NOTE:

ADVANCED ENGINEERING METHOD (AEM) SUBSURFACE DRAIN DESIGN AND DETAILS THIS SHEET BY TRC (SEE PART B SECTION 3 FOR PLAN AND PROFILE).

GEORGIA REGISTERED PROFESSIONAL ENGINEER ELIZABETH HEADRICK 7-7-21

Georgia Power

AEM SUBSURFACE DRAIN DETAILS

CLOSURE DRAWINGS

FOR

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