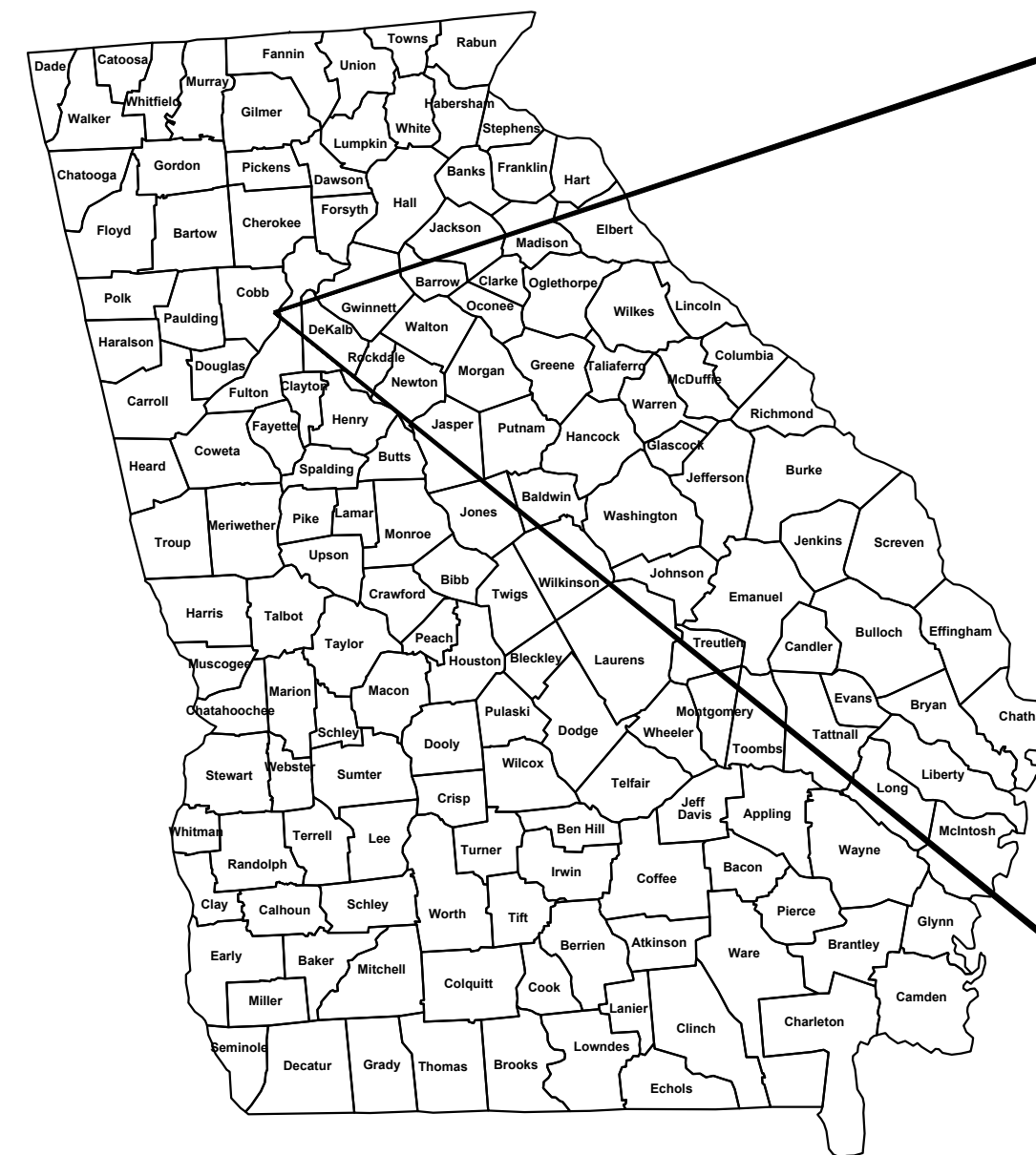
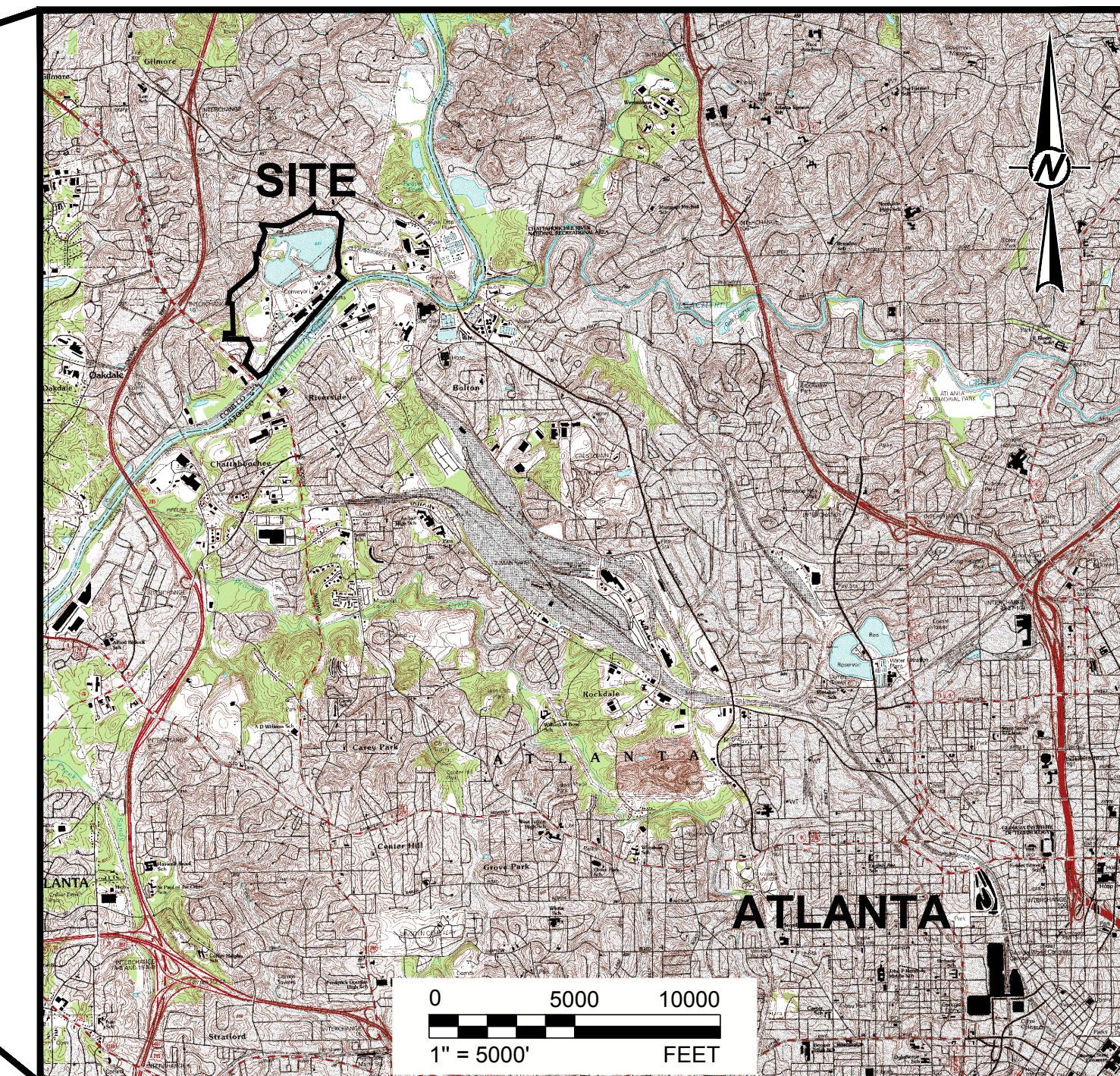


GEORGIA POWER COMPANY PLANT MCDONOUGH - ATKINSON INACTIVE SURFACE IMPOUNDMENT ASH PONDS NO. 2, 3 & 4 CLOSURE DRAWINGS COBB COUNTY, GEORGIA NOVEMBER 2021



SITE VICINITY MAP



REF: USGS 7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE:
MABLETON, GA 1992 & NORTHWEST ATLANTA, GA 1993

SITE LOCATION MAP

FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION

LIST OF SHEETS			
SHEET	SHEET TITLE	REVISION #	REVISION DATE
1	TITLE SHEET AND DRAWING INDEX	0	2021-NOV
2	PRE-CLOSURE CONDITIONS SITE MAP	0	2021-NOV
ASH POND 3 AND ASH POND 4 CLOSURE			
3	PRE-CLOSURE CONDITIONS AND ASH EXCAVATION	0	2021-NOV
4	ESTIMATED BOTTOM OF CCR PLAN	0	2021-NOV
5	PERMIT BOUNDARY AP-2, 3, 4	0	2021-NOV
6	FINAL COVER GRADING PLAN AND SURFACE WATER MANAGEMENT PLAN	0	2021-NOV
7	FINAL COVER ARMORING DELINEATION PLAN	0	2021-NOV
8	UNDER SLOPE DRAINAGE SYSTEM PLAN & DETAILS	0	2021-NOV
9	UNDER SLOPE DRAINAGE SYSTEM DETAILS	0	2021-NOV
10	SITE SECTIONS - SHEET 1 OF 2	0	2021-NOV
11	SITE SECTIONS - SHEET 2 OF 2	0	2021-NOV
12	PHASE 1 DEVELOPMENT PLAN	0	2021-NOV
13	PHASE 2 DEVELOPMENT PLAN	0	2021-NOV
14	PHASE 3 DEVELOPMENT PLAN	0	2021-NOV
15	PHASE 4 DEVELOPMENT PLAN	0	2021-NOV
16	PHASE 5 DEVELOPMENT PLAN	0	2021-NOV
17	PHASE 6 DEVELOPMENT PLAN	0	2021-NOV
18	CHANNEL PROFILE 1 OF 3	0	2021-NOV
19	CHANNEL PROFILE 2 OF 3	0	2021-NOV
20	CHANNEL PROFILE 3 OF 3	0	2021-NOV
21	DETENTION POND 1 DETAILS	0	2021-NOV
22	DETENTION POND 2 DETAILS	0	2021-NOV
23	DETENTION POND 3 DETAILS	0	2021-NOV
24	NORTH PERIMETER CHANNEL DETAILS	0	2021-NOV
25	NORTH AND SOUTH DOWNSLOPE CHANNEL PLANS	0	2021-NOV
26	SOUTH DOWNSLOPE CHANNEL PROFILE	0	2021-NOV
27	NORTH DOWNSLOPE CHANNEL PROFILE	0	2021-NOV
28	CLOSURE DETAILS - SHEET 1 OF 2	0	2021-NOV
29	CLOSURE DETAILS - SHEET 2 OF 2	0	2021-NOV
30	SURFACE WATER MANAGEMENT DETAILS - SHEET 1 OF 5	0	2021-NOV
31	SURFACE WATER MANAGEMENT DETAILS - SHEET 2 OF 5	0	2021-NOV
32	SURFACE WATER MANAGEMENT DETAILS - SHEET 3 OF 5	0	2021-NOV
33	SURFACE WATER MANAGEMENT DETAILS - SHEET 4 OF 5	0	2021-NOV
34	SURFACE WATER MANAGEMENT DETAILS - SHEET 5 OF 5	0	2021-NOV
35	CONTACT WATER MANAGEMENT AND INSTRUMENTATION PLAN	0	2021-NOV
36A	POST CLOSURE SOLAR DEVELOPMENT	0	2021-NOV
36B	GENERAL ARRANGEMENT AND CABLE TRAY LAYOUT	0	2021-NOV
36C	SOLAR FACILITY SECTION AND DETAILS - SHEET 1	0	2021-NOV
36D	SOLAR FACILITY SECTION AND DETAILS - SHEET 2	0	2021-NOV
36E	POST CLOSURE SOLAR DEVELOPMENT	0	2021-NOV
ASH POND 2 CLOSURE			
37	PRECLOSURE CONDITIONS	0	2021-NOV
38	EXISTING CONDITIONS - AP-2 CLOSURE	0	2021-NOV
39	POTENTIAL FUTURE DEVELOPMENT AP-2	0	2021-NOV
40	AP-2 DETAILS AND SECTIONS	0	2021-NOV
41	COMPLIANCE MONITORING WELL NETWORK	0	2021-NOV
PERMIT BOUNDARY SURVEY			
P470-5(2)	ASH POND 2, 3, AND 4 PERMIT BOUNDARY SURVEY (1 OF 2)	0	2021-NOV
P470-5(3)	ASH POND 2, 3, AND 4 PERMIT BOUNDARY SURVEY (2 OF 2)	0	2021-NOV

CONTACT INFORMATION

CONSULTANT

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TELEPHONE: 770-496-1893
PREPARED BY:



RESPONSIBLE OFFICIAL

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ENVIRONMENTAL AFFAIRS
GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD
BIN 10221
ATLANTA, GA 30308
TELEPHONE: 404-506-6505

PROPERTY OWNER

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

PREPARED FOR:



CLIENT
GEORGIA POWER COMPANY

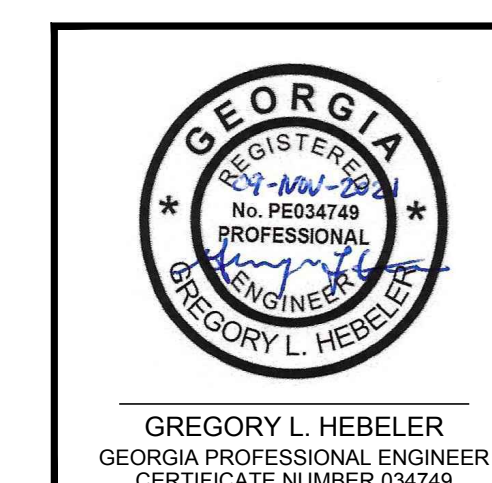


PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

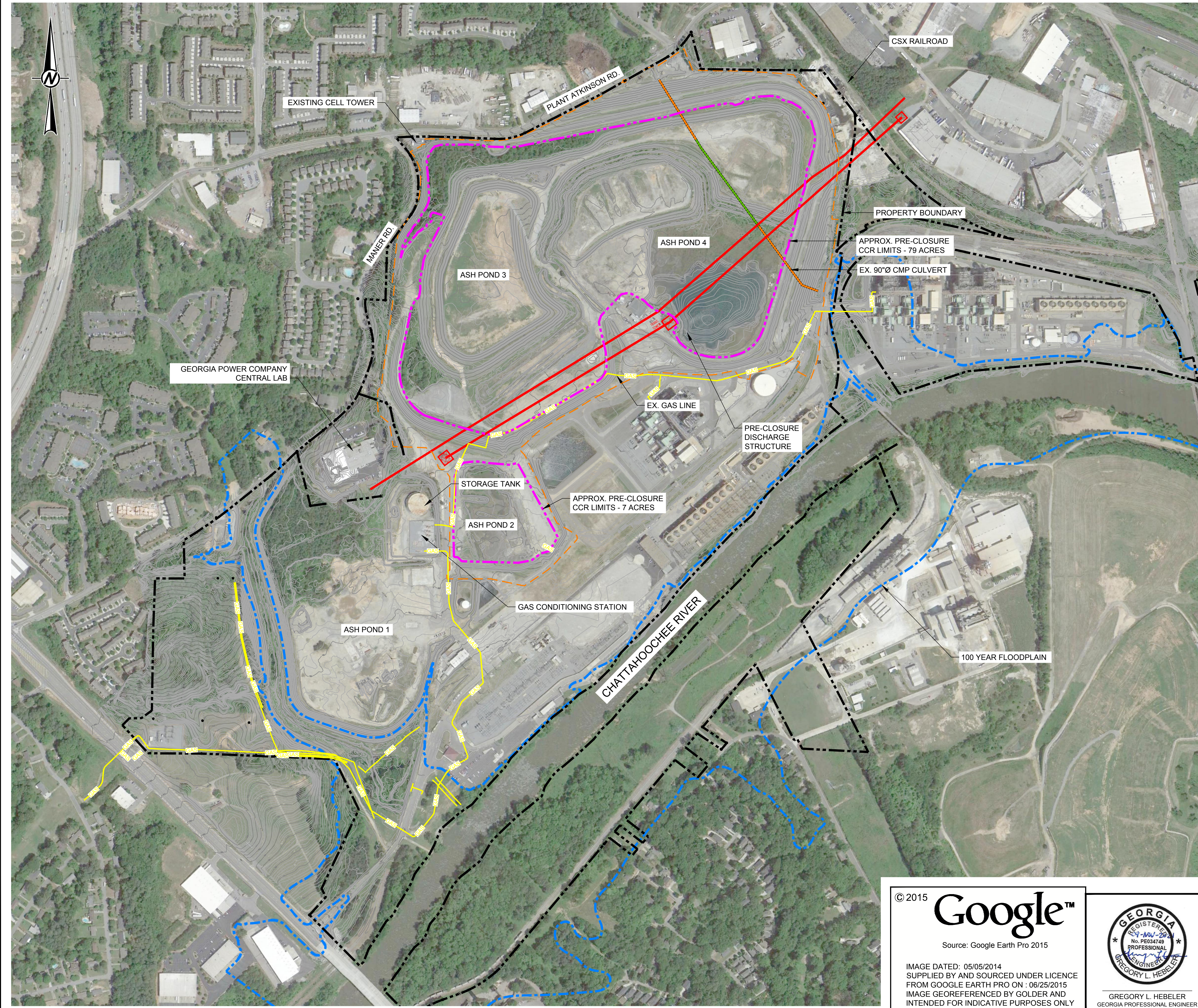
TITLE
TITLE SHEET AND DRAWING INDEX

CONSULTANT	YYYY-MMM	2021-NOV
GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. 1777449 REV. 0 SHEET 1



Path: \\atlantia\cadd\Southern Company\1777449 Plant McDonough\Permitting\AP-3&4-AP-2\AP-3&4-AP-2\AP-3&4-AP-2\PRE-CLOSURE COND-AERIAL.dwg



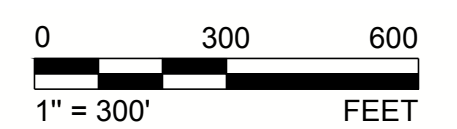
LEGEND

- PRE-CLOSURE CONTOURS
- PROPERTY BOUNDARY MARKERS/LIMITS
- EXISTING STREAM DIVERSION CULVERT UNDER EMBANKMENTS
- EXISTING STREAM DIVERSION CULVERT-CONCRETE ENCASED SECTION
- EXISTING OVERHEAD ELECTRIC LINES TO REMAIN & TO BE PROTECTED
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- EXISTING GAS LINE
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
- 100 YEAR FLOODPLAIN

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO. INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.
3. IMAGE TAKEN FROM GOOGLE EARTH PRO ON JUNE 25, 2015. IMAGE DATED MAY 05, 2014.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
PRE-CLOSURE CONDITIONS SITE MAP

CONSULTANT	DATE	BY
GOLDER MEMBER OF WSP	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

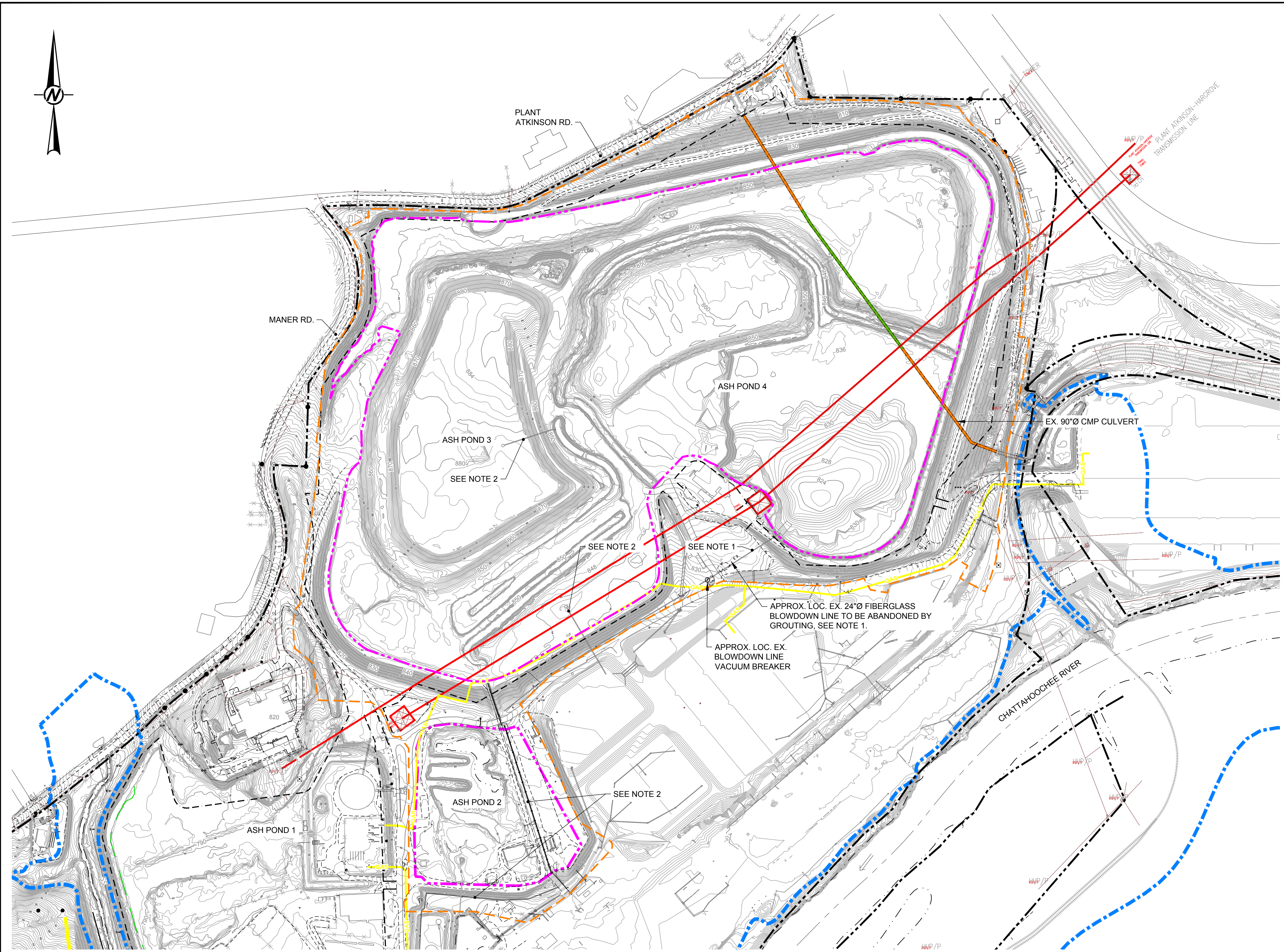
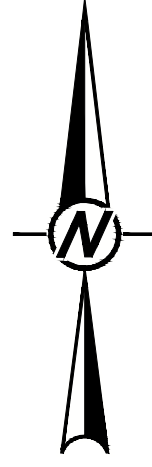
PROJECT NO. **1777449** REV. **0** SHEET **2**

© 2015 **Google™**
Source: Google Earth Pro 2015





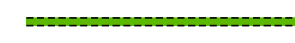




IMAGE DATED: 05/05/2014
SUPPLIED BY AND SOURCED UNDER LICENCE FROM GOOGLE EARTH PRO ON : 06/25/2015
IMAGE GEOREFERENCED BY GOLDER AND INTENDED FOR INDICATIVE PURPOSES ONLY

GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D



LEGEND

-  PRE-CLOSURE CONTOURS
-  PROPERTY BOUNDARY MARKERS/LIMITS
-  EXISTING STREAM DIVERSION CULVERT UNDER EMBANKMENTS
-  EXISTING STREAM DIVERSION CULVERT-CONCRETE ENCASED SECTION
-  EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
-  APPROXIMATE PRE-CLOSURE CCR LIMITS
-  EXISTING GAS LINE
-  PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
-  100 YEAR FLOODPLAIN

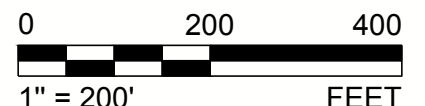
NOTES

1. AP-4 SPILLWAY OUTLET STRUCTURE TO BE DEMOLISHED AND COVERED WITH SOIL FILL 3 FEET MINIMUM BELOW CLOSURE COVER SYSTEM. EXISTING BLOWDOWN LINE TO BE ABANDONED BY GROUTING TO THE BLOWDOWN VACUUM BREAKER.
2. PIPES TO BE ABANDONED VIA A COMBINATION OF REMOVAL AND GROUTING OF REMAINING PORTIONS.

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12.
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**




CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
PRE-CLOSURE CONDITIONS

CONSULTANT	DATE	REVISION
 GOLDER MEMBER OF WSP	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

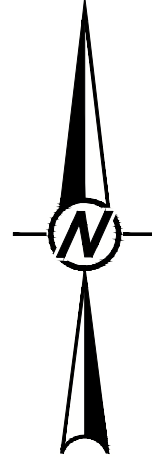


GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

PROJECT NO. 1777449 REV. 0 SHEET 3

Path: \\atlantafacstaff\Southern Company\1777449\Plant McDonough\Permitting\AP-3&4-AP-2\AP-3&4\PRODUCTION\1 - File Name: 1777449 03 PRE-CLOSURE-ASH-REMOVAL.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



STATION 0+00
PIPE END 90° CCMP
TOP ELEV. = 782.88
INVERT ELEV. = 775.28

EX. 35' BENCH

PLANT ATKINSON RD

MANER RD

EX. 90° CMP CULVERT

CHATTANOOCHEE RIVER

100 YEAR FLOODPLAIN

LEGEND

- PRE-CLOSURE CONTOURS
- PROPERTY BOUNDARY MARKERS/LIMITS
- ESTIMATED BOTTOM OF CCR CONTOURS
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- EXISTING GAS LINE
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
- 100 YEAR FLOODPLAIN
- WETLANDS

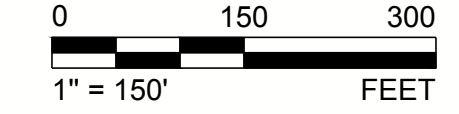
NOTE

1. ESTIMATED BOTTOM OF CCR CONTOURS BASED ON A COMBINATION OF 1954 USGS TOPOGRAPHY (ACCOUNTING FOR ESTIMATED BORROW FROM WITHIN ASH POND LIMITS), AND GOLDER GEOTECHNICAL INVESTIGATION. DEPICTED INTERIOR DAM GRADING BELOW EXISTING EXPOSED LIMITS IS INFERRED FROM HISTORIC SOUTHERN COMPANY DAM DESIGN TYPICAL SECTIONS.

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12.
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016.

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NOT FOR CONSTRUCTION**



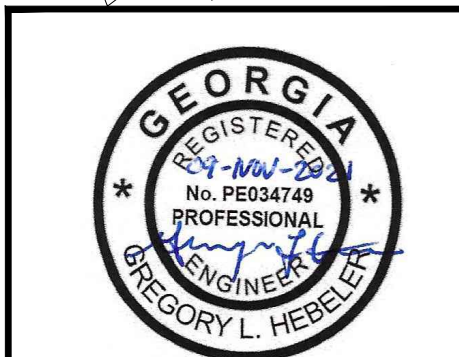
CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
ESTIMATED BOTTOM OF CCR PLAN

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

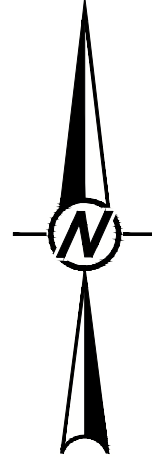


GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

PROJECT NO. 1777449 REV. 0 SHEET 4

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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



LEGEND

- EXISTING CONTOURS (MARCH 2018)
- PROPERTY BOUNDARY MARKERS/LIMITS
- 810 FINAL CLOSURE CONTOURS (SEE NOTE 2)
- 810 CLOSURE CONTOURS OUTSIDE LIMITS OF CCR
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 2, 3, & 4 AREA TO REMAIN & TO BE PROTECTED
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- EXISTING GAS LINE
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
- POST-CLOSURE CCR LIMITS
- FINAL EXTENTS OF LINER

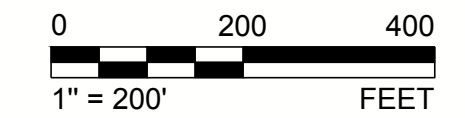
REFERENCES

1. THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018.

NOTES

1. FINAL CLOSURE CONTOURS (PURPLE) DELINEATE FINAL LIMITS OF ASH.
2. CLOSURE CONTOURS OUTSIDE LIMITS OF CCR (GREEN) DELINEATE AREAS WHERE ANY EXISTING ASH IS TO BE COMPLETELY REMOVED.
3. PERMANENT MARKERS FOR EACH CCR UNIT WERE INSTALLED AT PLANT MCDONOUGH ON JULY 31, 2015.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
PERMIT BOUNDARY AP-2, AP-3/4

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

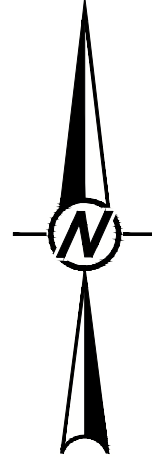


GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

PROJECT NO.
1777449

REV.
0

SHEET
5



LEGEND

- EXISTING CONTOURS (MARCH 2018)
- PROPERTY BOUNDARY MARKERS/LIMITS
- 810 FINAL CLOSURE CONTOURS (SEE NOTE 2)
- 810 CLOSURE CONTOURS OUTSIDE LIMITS OF CCR
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 2, 3, & 4 AREA TO REMAIN & TO BE PROTECTED
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- EXISTING GAS LINE
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4

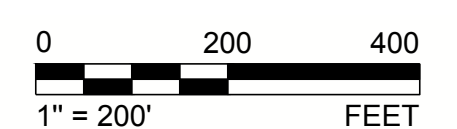
REFERENCES

1. THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED 'TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018.

NOTES

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2. CLOSURE CONTOURS OUTSIDE LIMITS OF CCR (GREEN) DELINEATE AREAS WHERE ANY EXISTING ASH IS TO BE COMPLETELY REMOVED.
3. PERMANENT MARKERS FOR EACH CCR UNIT WERE INSTALLED AT PLANT MCDONOUGH ON JULY 31, 2015.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



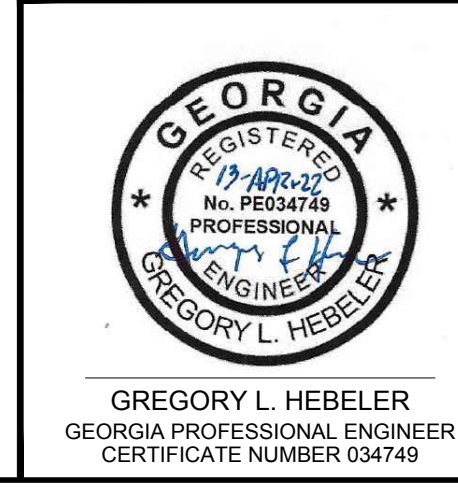
CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
**FINAL COVER GRADING AND
SURFACE WATER MANAGEMENT PLAN**

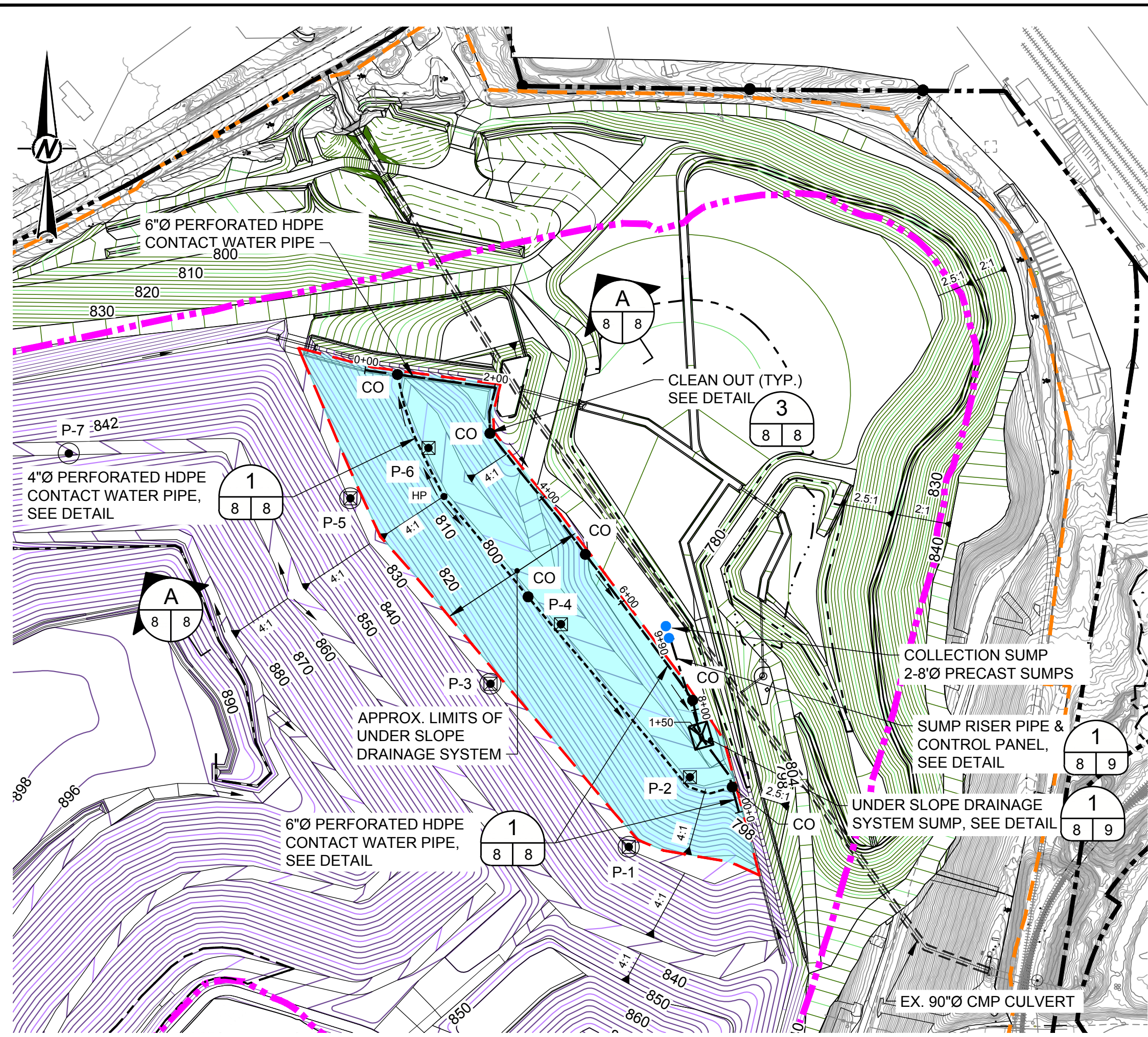
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	DESIGNED	GLH
	PREPARED	AVR
	CHECKED	LS
	REVIEWED / APPROVED	GLH



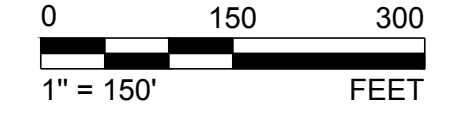
PROJECT NO. 1777449 REV. 0 SHEET 6

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



UNDER SLOPE DRAINAGE SYSTEM

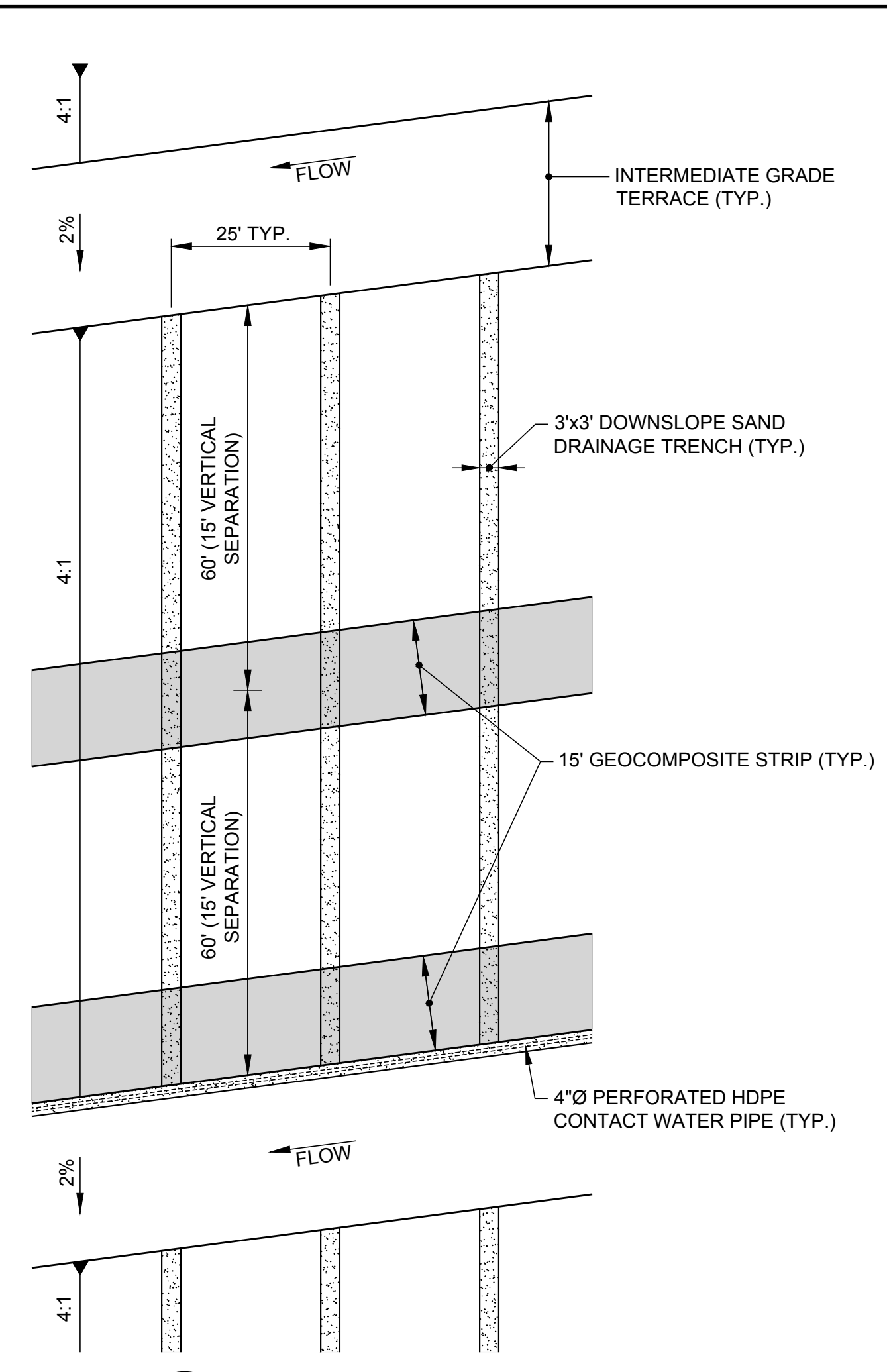


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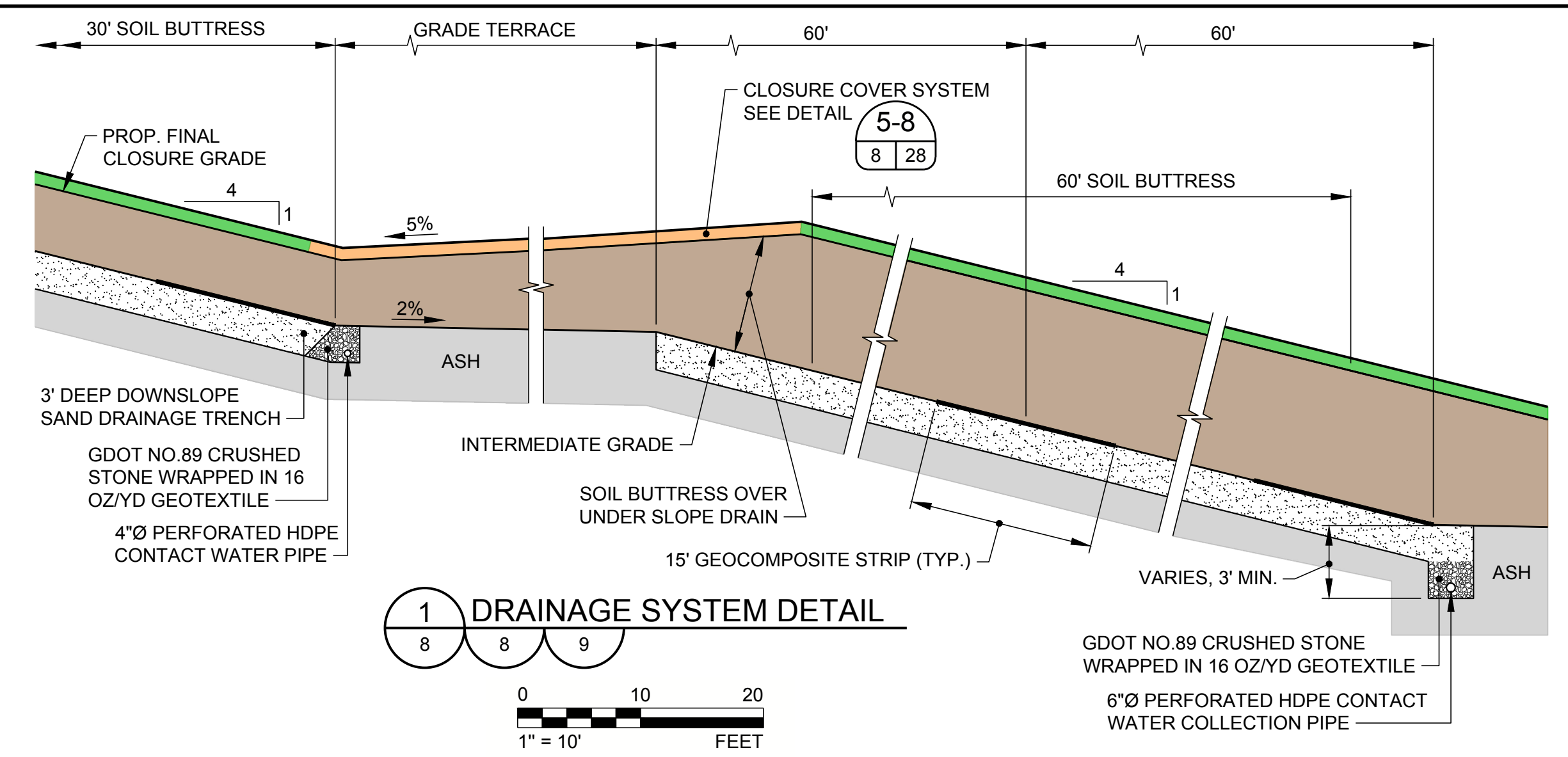
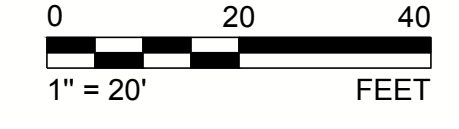
P-2	DUAL LEVEL VW PIEZOMETER & INCLINOMETER
P-1	TRI LEVEL VW PIEZOMETER & INCLINOMETER
P-7	DUAL LEVEL VW PIEZOMETER
CO	CONTACT WATER PIPE CLEAN OUT

HATCH LEGEND

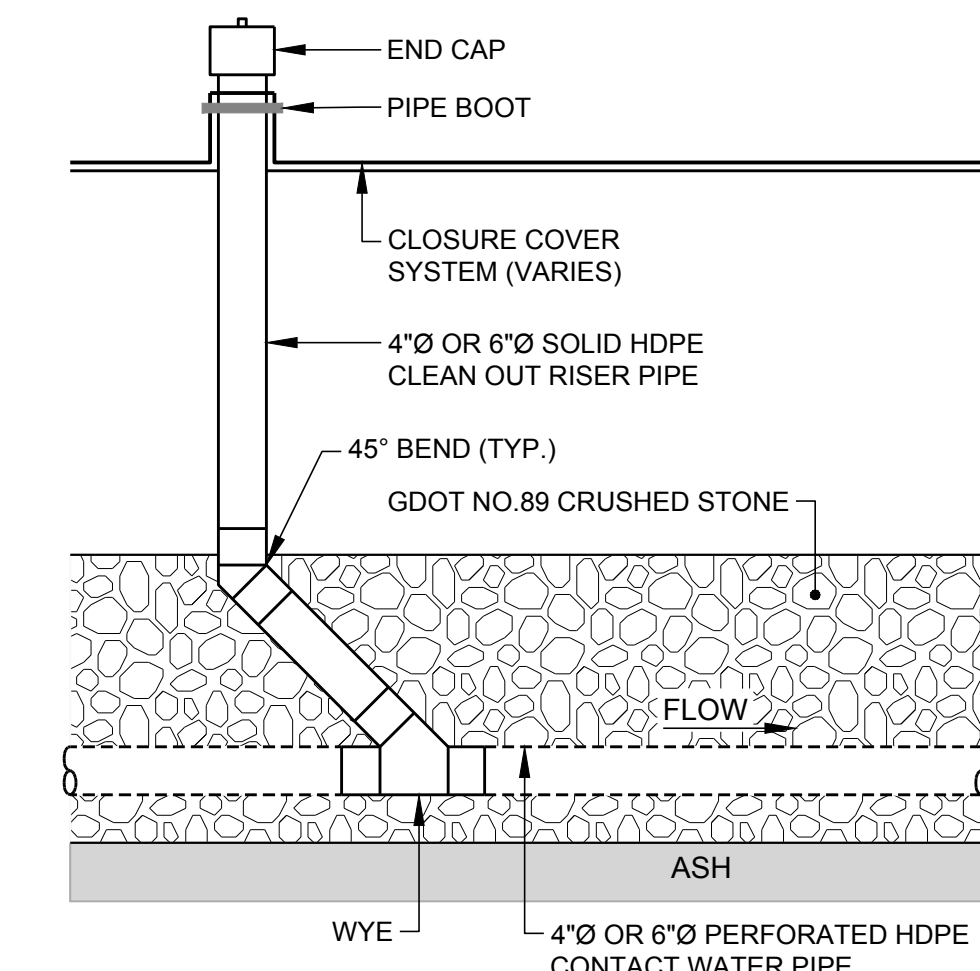
[Hatch]	EXISTING ASH TO REMAIN	[Hatch]	PROPOSED SOIL FILL
[Hatch]	EXISTING EMBANKMENT FILL	[Hatch]	HYDROTURF OVER SUPERGRIPNET
[Hatch]	ASH/SOIL TO BE REMOVED	[Hatch]	CLOSURE TURF OVER SUPERGRIPNET
[Hatch]	PROPOSED ASH FILL		



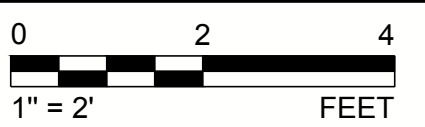
B DRAINAGE SYSTEM FRONT VIEW B-B



1 DRAINAGE SYSTEM DETAIL

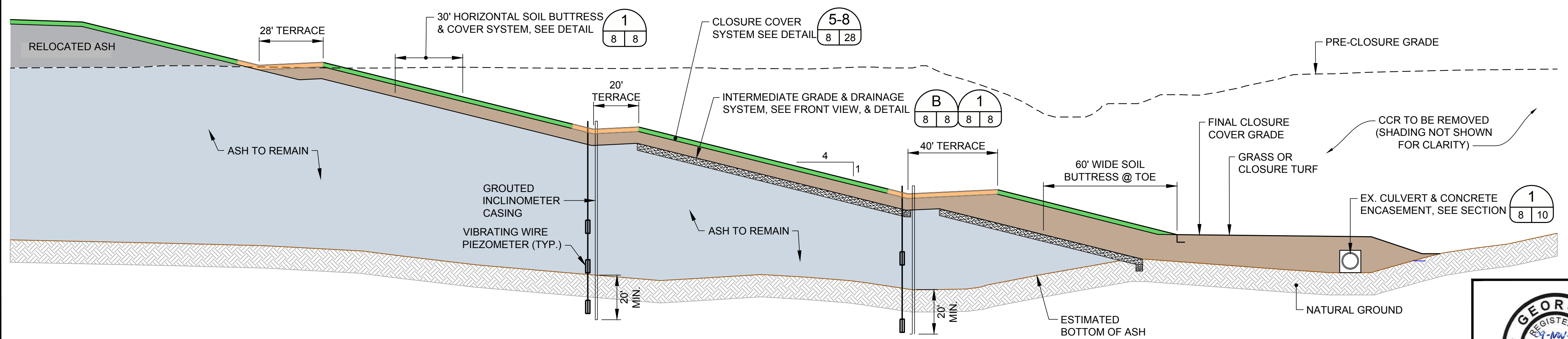


3 CLEAN OUT RISER DETAIL

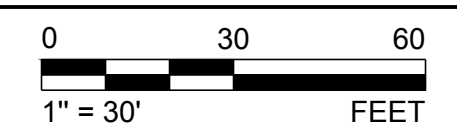


NOTES

- THE PORTIONS OF THE MAIN EXCAVATION SLOPE BELOW THE BENCH AT MAXIMUM ELEVATION OF 860 FEET RECEIVE A STRUCTURAL FILL STABILITY BERM OF MINIMUM 30 FOOT HORIZONTAL WIDTH ON TOP OF THE FINISH ASH EXCAVATION SLOPE FOR ELEVATIONS ABOVE THE BOTTOM BENCH, AND MINIMUM 60 FOOT HORIZONTAL WIDTH BELOW THE BOTTOM BENCH AS SHOWN ON DRAWING SHEET 28.
- AN UNDER SLOPE DRAIN SYSTEM IS TO BE CONSTRUCTED ALONG THE FINISH ASH EXCAVATION SLOPE BENEATH THE SOIL BUTTRESS FOR ALL AREAS BELOW THE 2ND BENCH FROM THE BOTTOM AS PER THE DETAILS ON THIS SHEET.



PROPOSED UNDER SLOPE DRAINAGE SYSTEM FOR EASTERN CLOSURE SYSTEM SLOPE



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NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

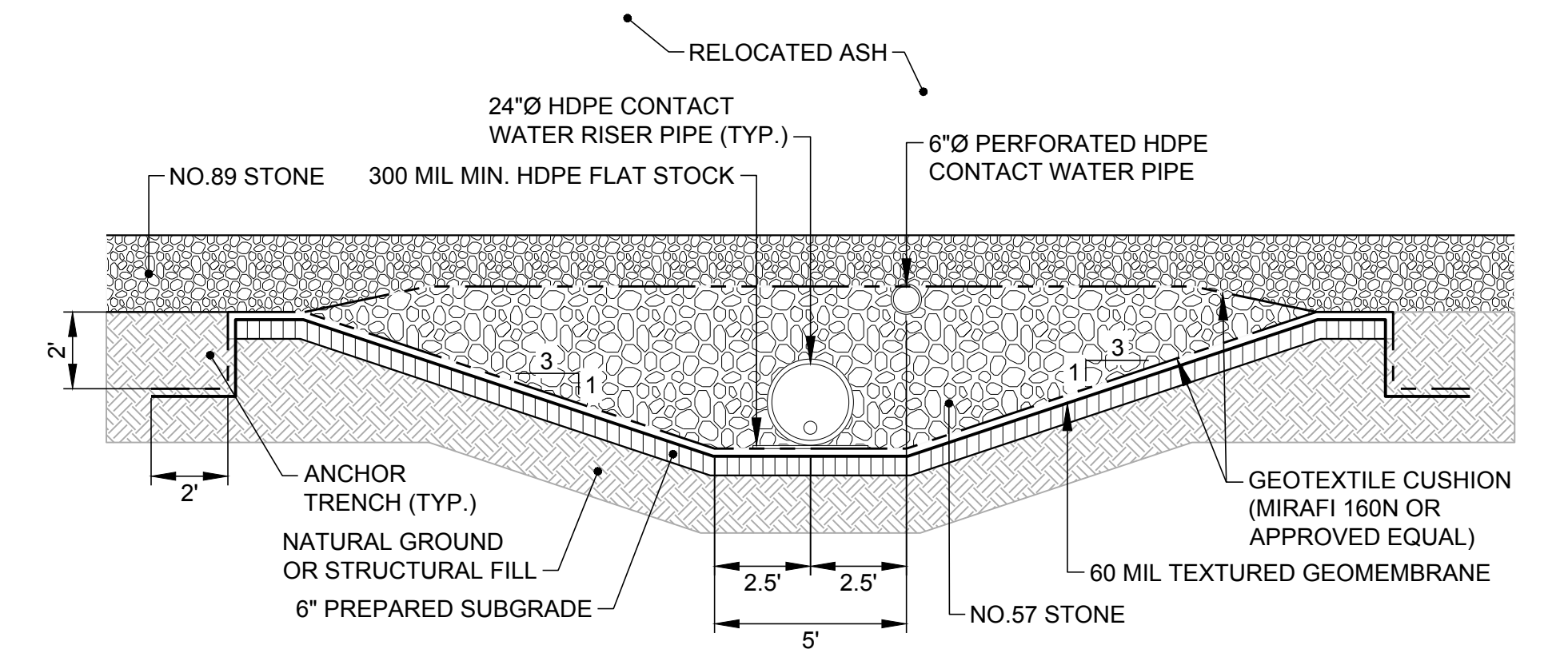
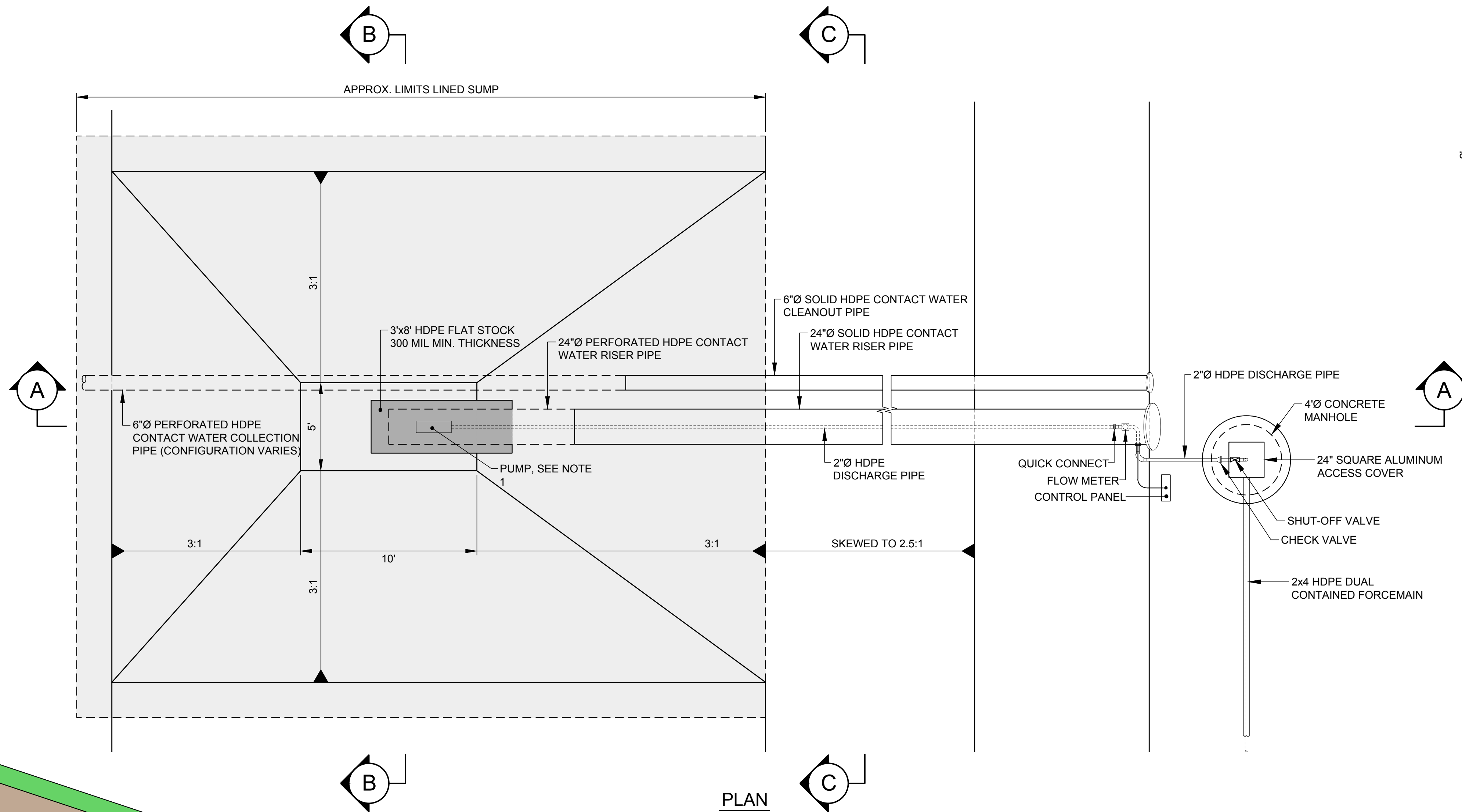
TITLE
UNDER SLOPE DRAINAGE SYSTEM PLAN & DETAILS



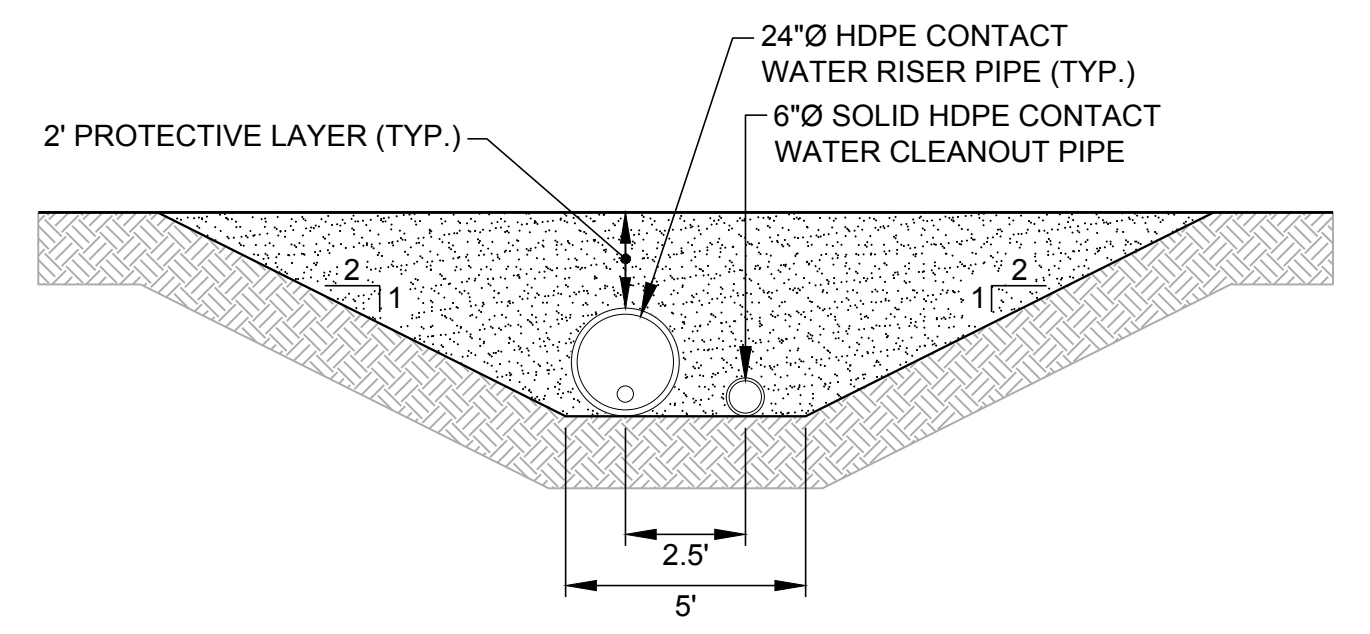
CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH
PROJECT NO. 1777449	REV. 0	SHEET 8

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

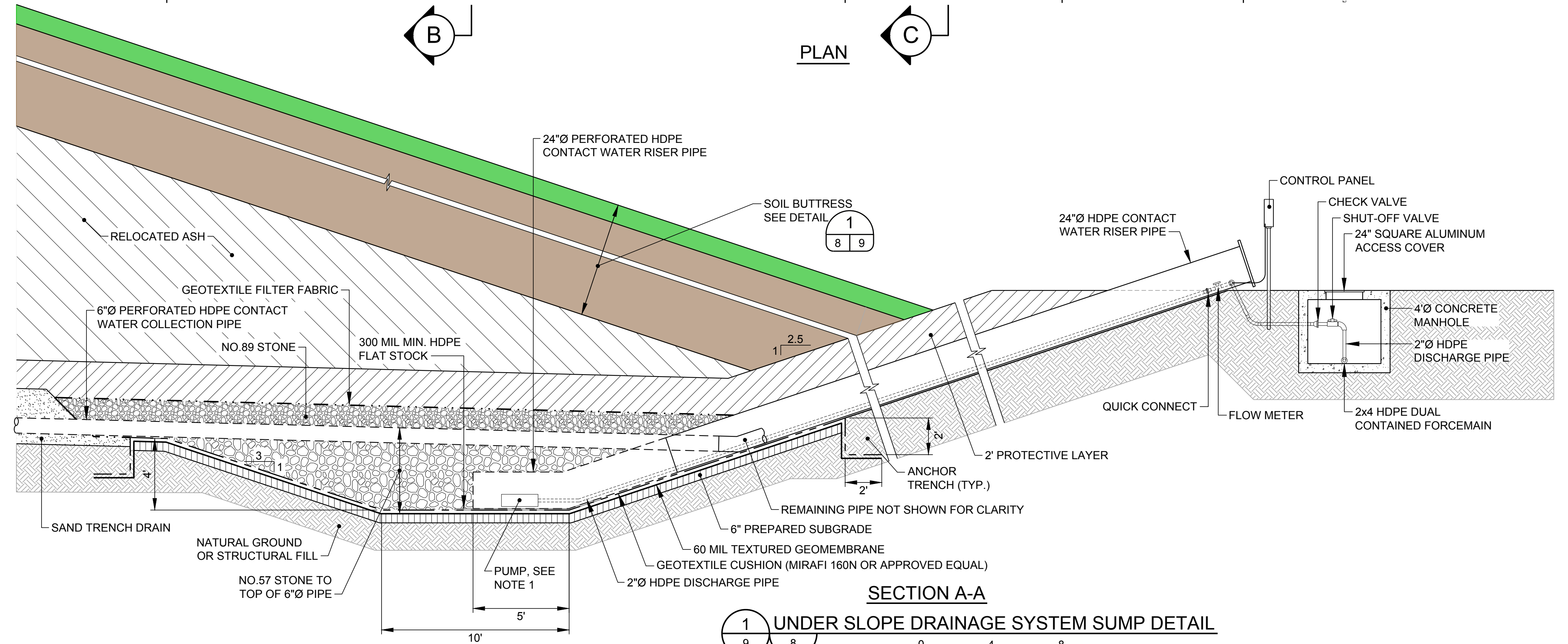


SECTION B-B



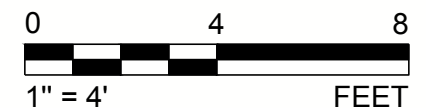
SECTION C-C

PLAN



SECTION A-A

1 UNDER SLOPE DRAINAGE SYSTEM SUMP DETAIL



NOTE

1. UNDER SLOPE DRAINAGE SUMP PUMP TO BE 1.5 HP, 30 GPM, ABLE TO PUMP A DYNAMIC HEAD OF 90 VERTICAL FEET.

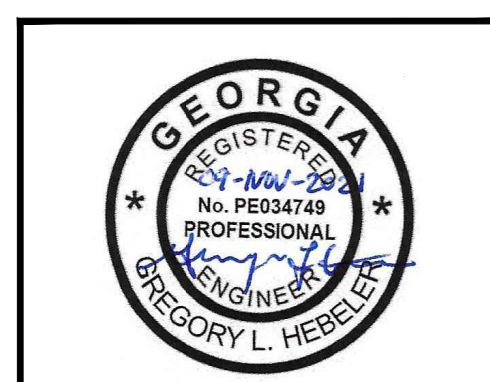
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NOT FOR CONSTRUCTION

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
UNDER SLOPE DRAINAGE SYSTEM DETAILS



GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

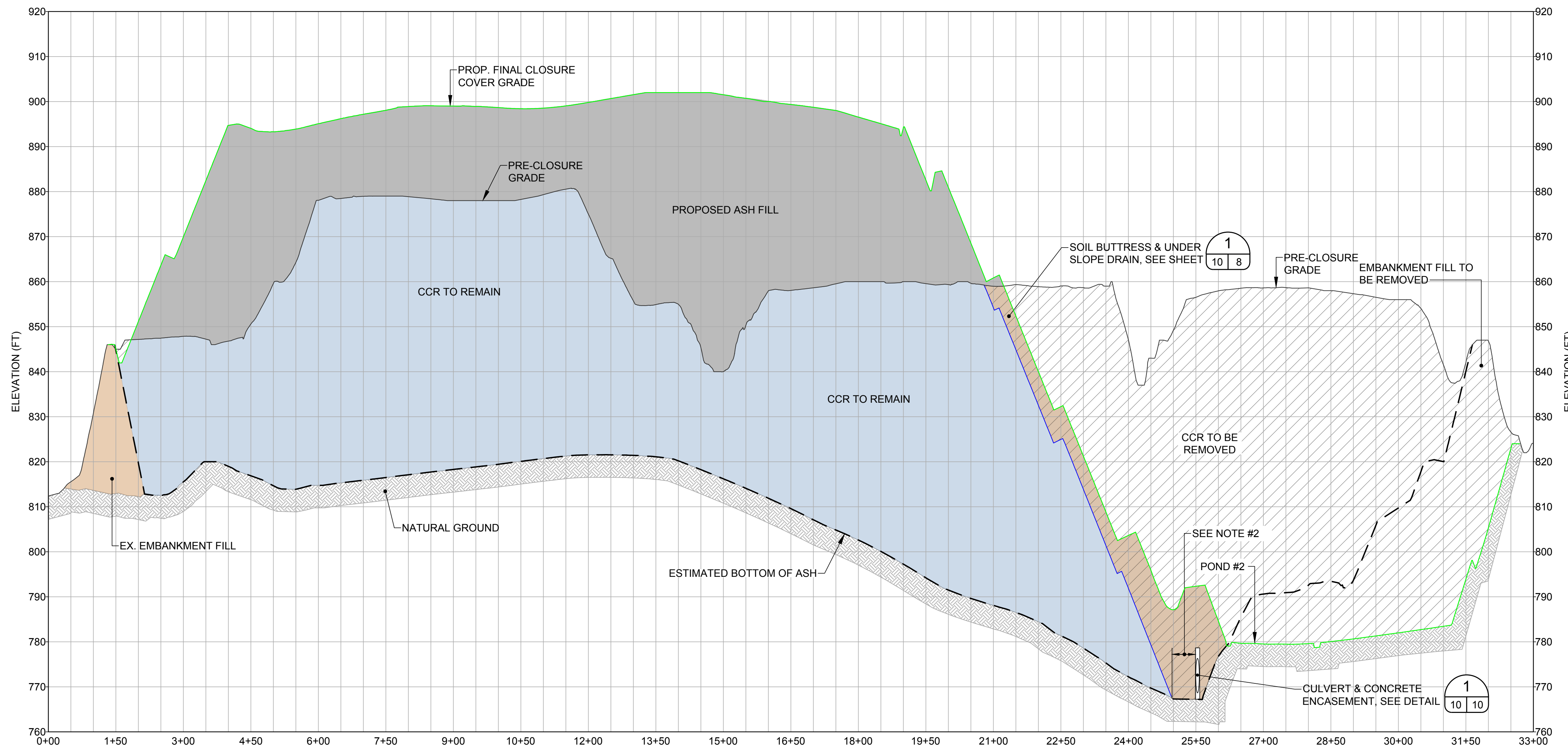
PROJECT NO.
1777449

REV.
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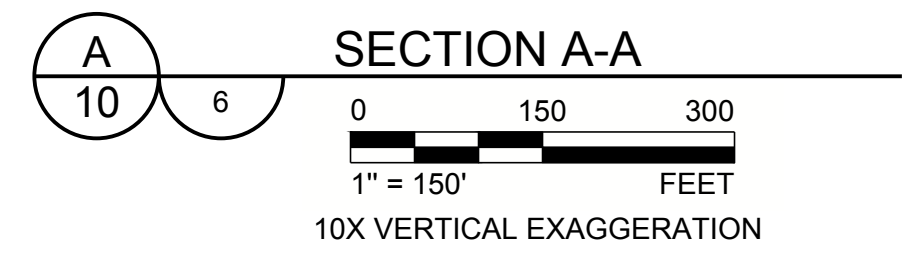
SHEET
9

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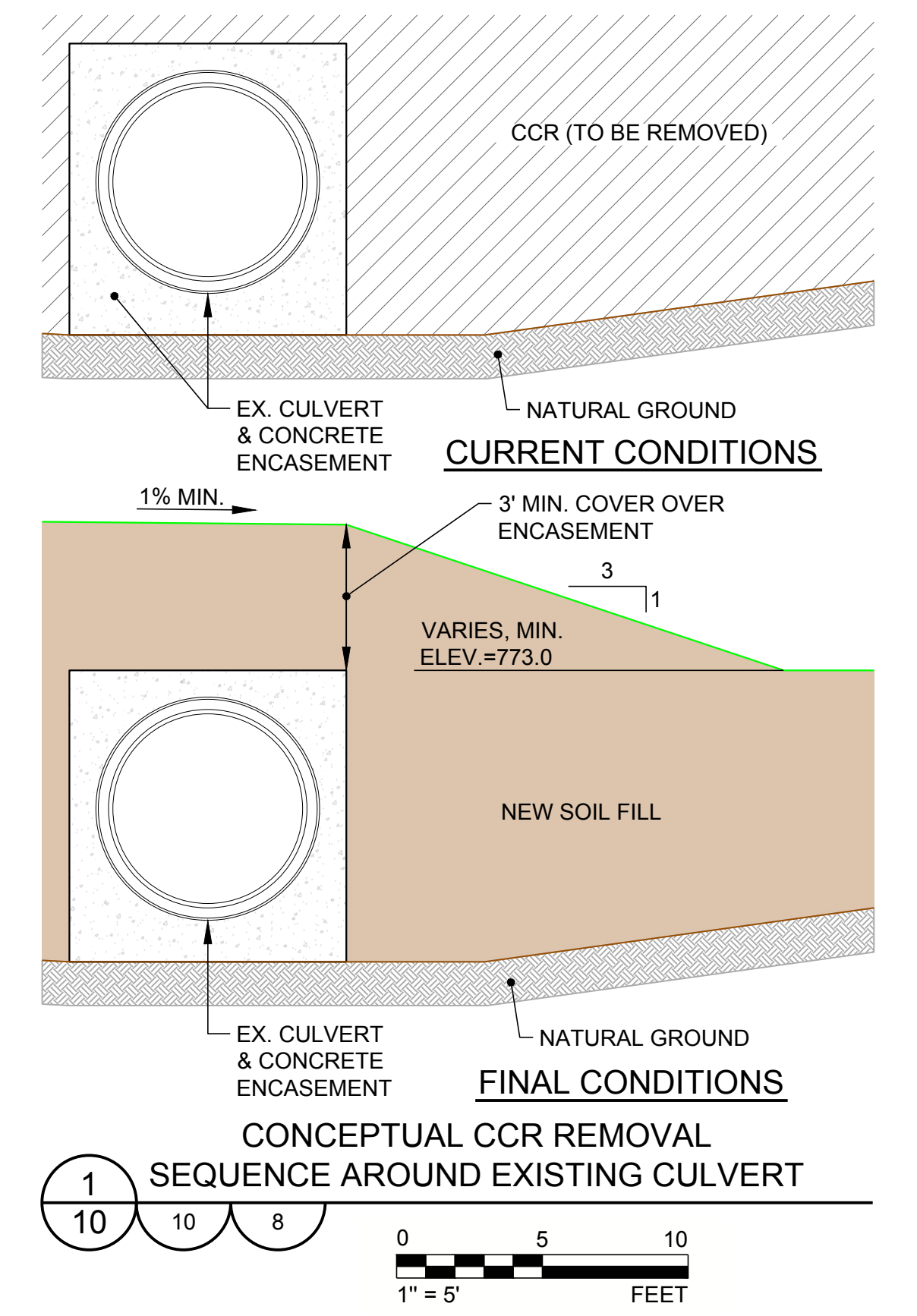
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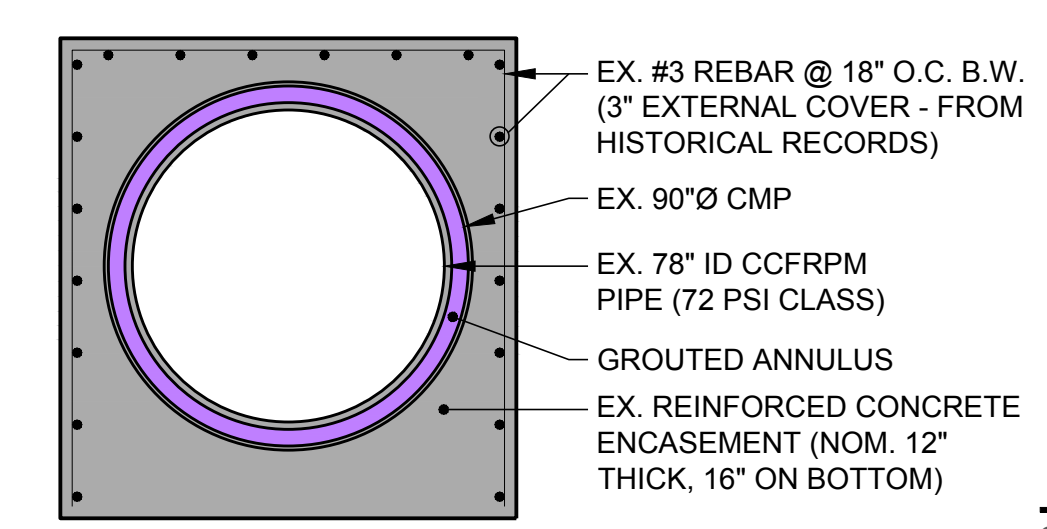
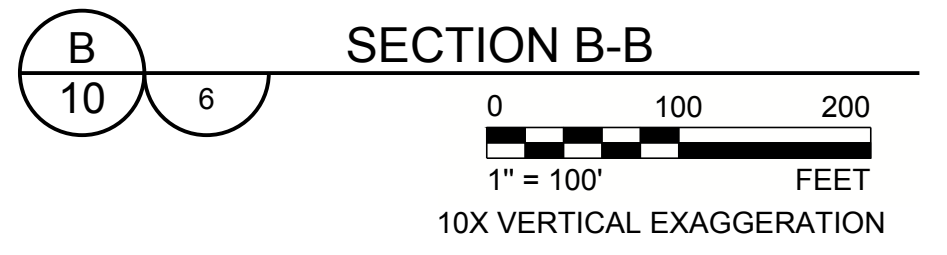
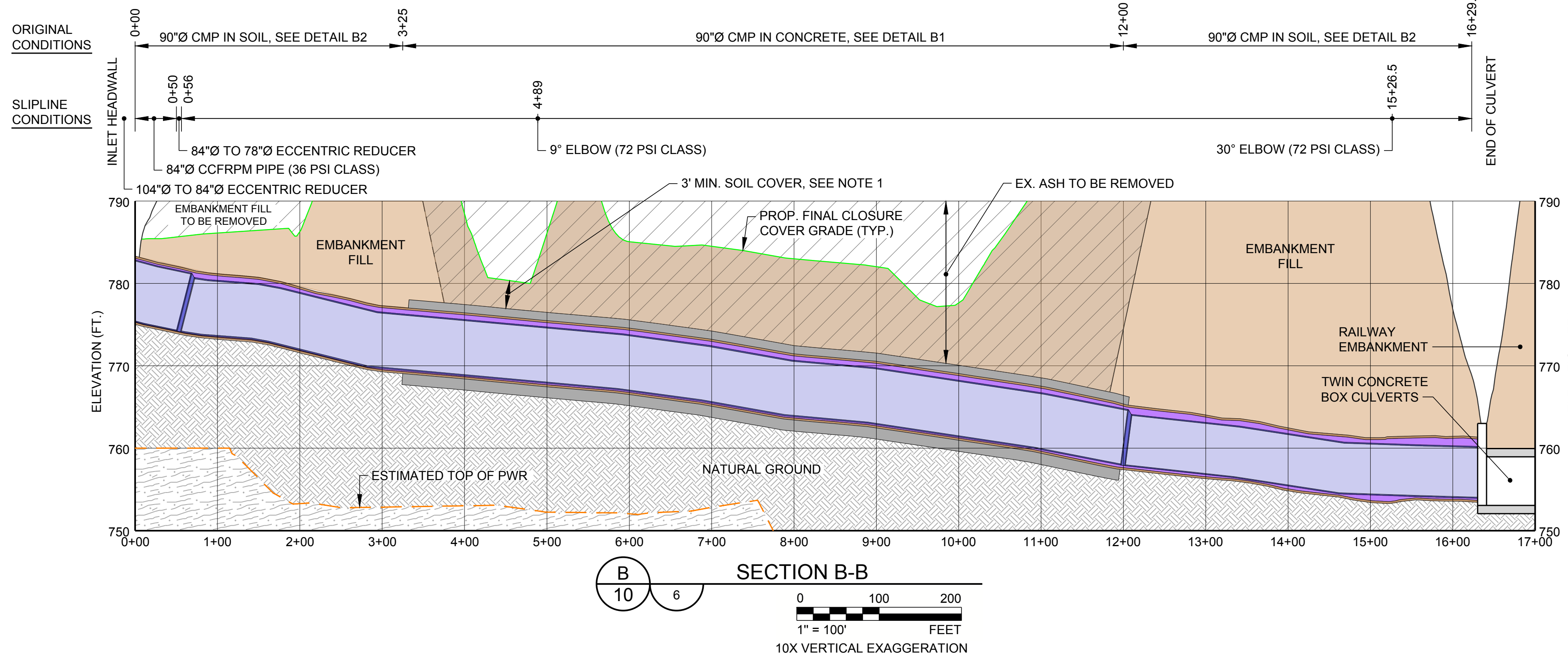
- LEGEND**
- ASH TO REMAIN
 - PROPOSED ASH FILL
 - EXISTING EMBANKMENT FILL
 - PROPOSED SOIL FILL
 - CCR / SOIL TO BE REMOVED



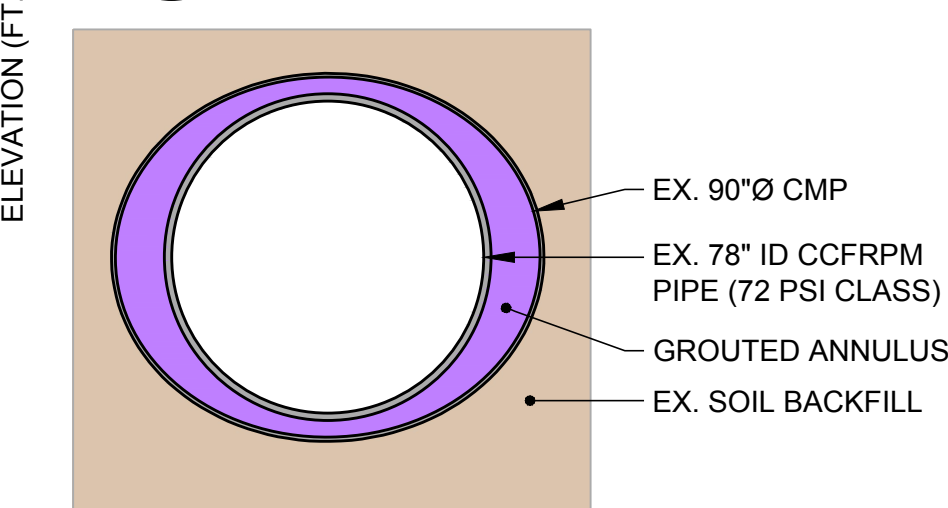
- NOTES**
- EXISTING CCR TO BE REMOVED FROM OVER AND AROUND EXISTING PIPE AND SOIL FILL TO BE PLACED BACK OVER PIPE.
 - MAINTAIN 50 FOOT BUFFER BETWEEN FINAL TOE OF CCR AND EXISTING EDGE OF CULVERT.
 - ESTIMATED BOTTOM OF CCR LIMITS ARE APPROXIMATE.



- REFERENCES**
- THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
 - REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016.

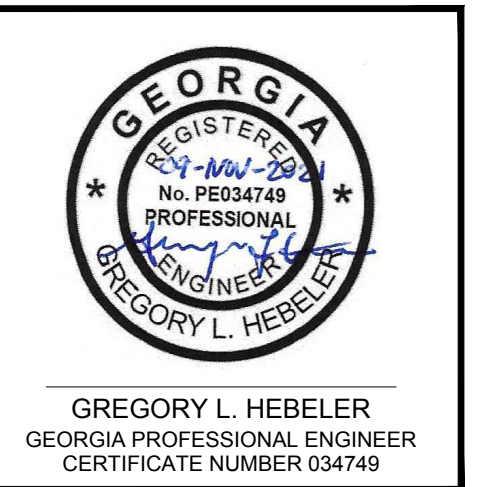


CONCRETE ENCASED 90"Ø CMP SLIPLINED WITH CCFRPM PIPE



90"Ø CMP IN SOIL SLIPLINED WITH CCFRPM PIPE

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GEORGIA POWER COMPANY



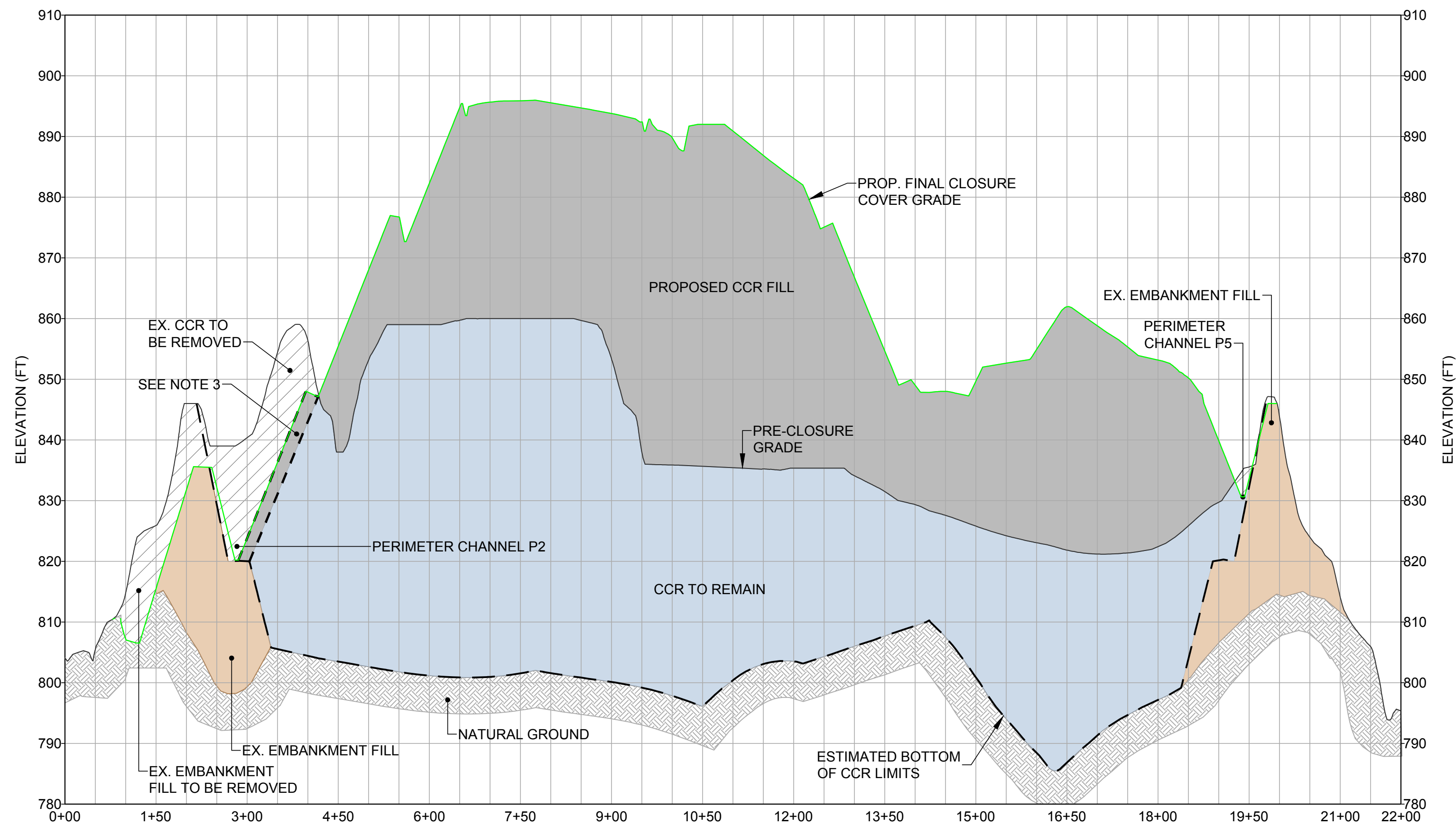
PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
SITE SECTIONS - SHEET 1 OF 2

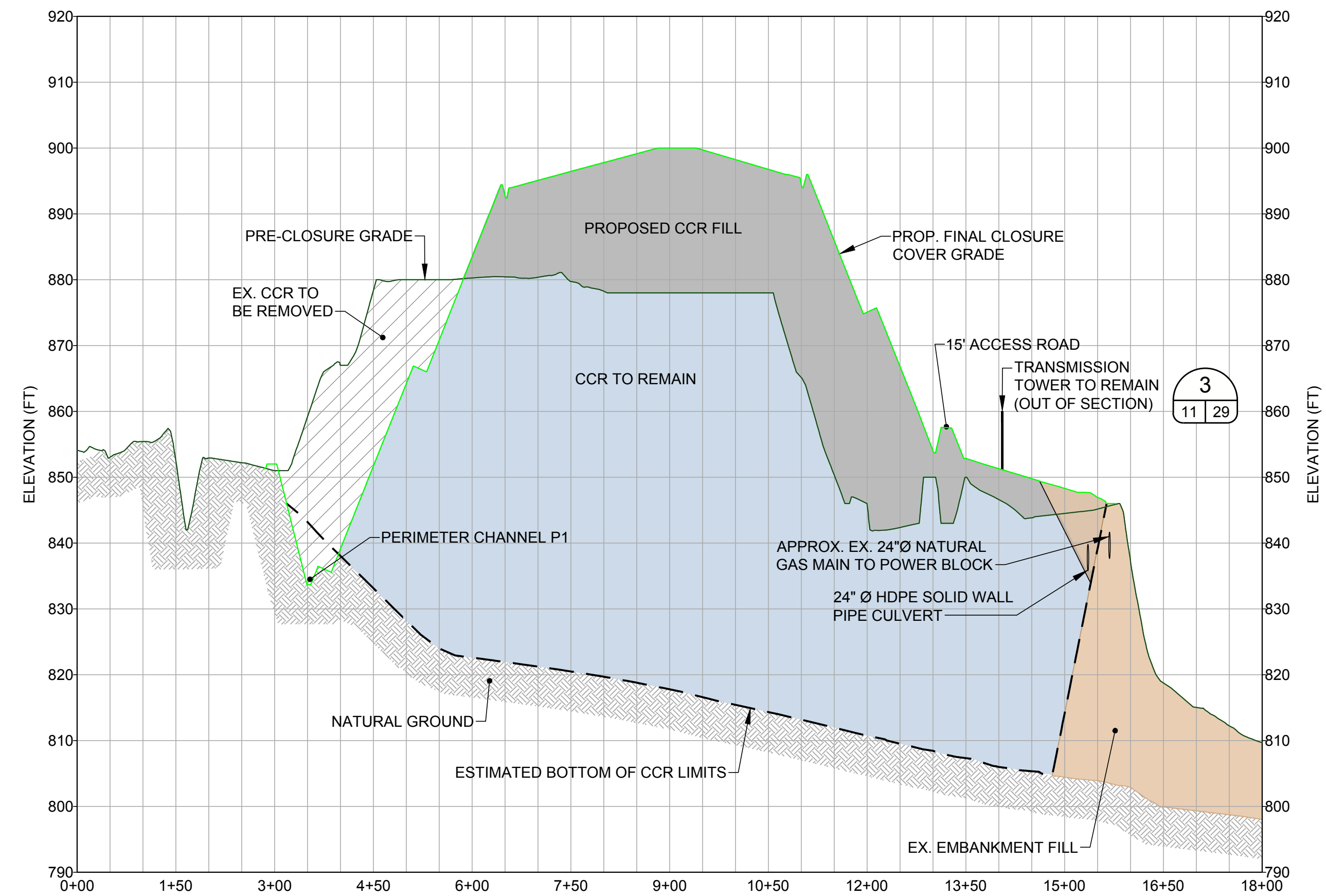
CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



C
11 6
SECTION C-C
0 150 300
1" = 150' FEET
10X VERTICAL EXAGGERATION



D
11 6
SECTION D-D
0 150 300
1" = 150' FEET
10X VERTICAL EXAGGERATION

- LEGEND**
- ASH TO REMAIN
 - PROPOSED ASH FILL
 - EXISTING EMBANKMENT FILL
 - PROPOSED SOIL FILL
 - ASH / SOIL TO BE REMOVED

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."

2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.

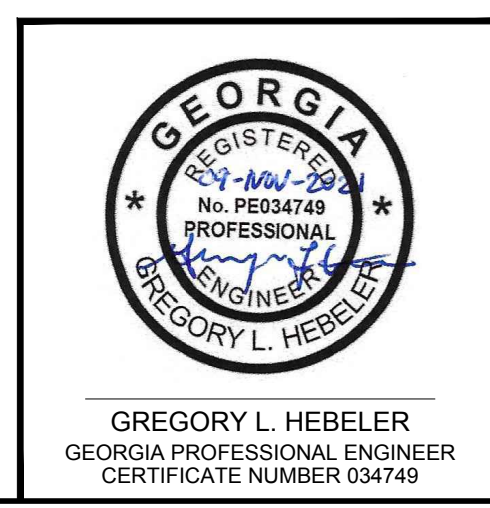
- NOTES**
- 24 INCH DIAMETER NATURAL GAS FEED FOR POWER PLANT RUNS WITHIN THE SOUTHERN PORTION OF EXISTING ASH POND 3 PERIMETER BERM.
 - ESTIMATED BOTTOM OF ASH LIMITS ARE APPROXIMATE.
 - OVER EXCAVATE AND RECOMPACT ASH FILL ALONG NORTHERN PERIMETER CHANNEL A MINIMUM OF 20 FEET HORIZONTALLY TO BOTTOM OF ASH OR A MINIMUM OF FIVE FEET BELOW FINAL CHANNEL BOTTOM IF STILL IN ASH.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
SITE SECTIONS - SHEET 2 OF 2

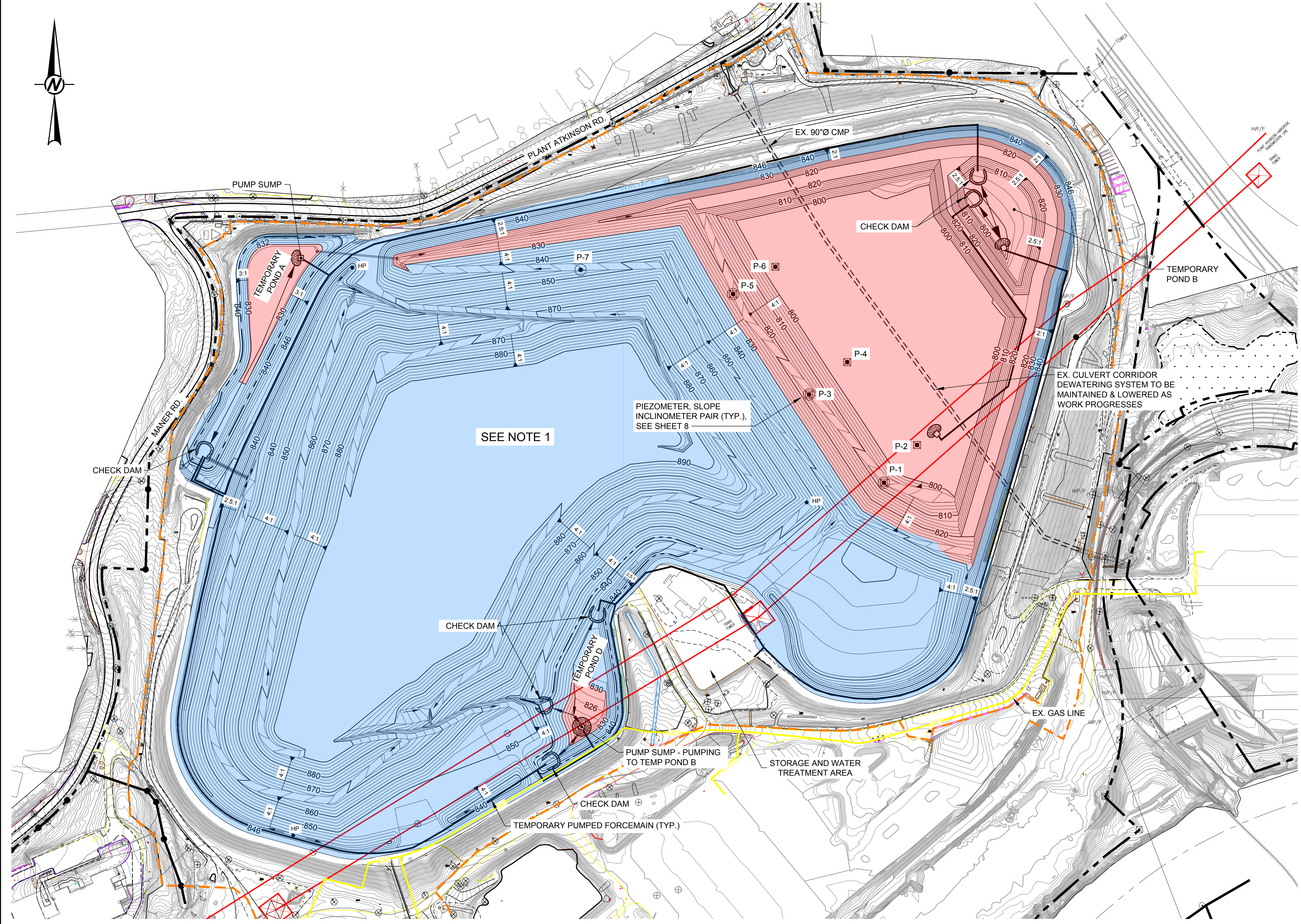
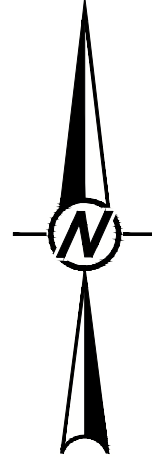


CONSULTANT	YYYY-MMM	2021-NOV
GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. 1777449 REV. 0 SHEET 11

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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3S-D



- NOTES**
1. PHASE 4 CONTINUES THE PROCESS OF EXCAVATING COAL ASH FROM THE EXISTING CONVEYANCE CULVERT CORRIDOR OF ASH POND 4 AND STACKING IT ON ASH POND 3. THIS PHASE INCLUDES ALL EXCAVATIONS TO APPROXIMATELY ELEVATION 800 AND STACKED HEIGHT UP TO ELEVATION 890. NOTE THAT THE TOP OF THE STACK ON ASH POND 3 WILL BE LEFT OPEN AND MOVE UP OR DOWN AS NEEDED TO ACCOUNT FOR ACTUAL QUANTITIES OF PLACED, COMPACTED COAL ASH.
 2. TEMPORARY SEDIMENT PONDS A, B, AND D WILL ALL BE OPERATIONAL IN VARIOUS DURING THIS PHASE PROVIDING STORAGE FOR STORMWATER RUNOFF AND SEDIMENT CAPTURE. PUMPING SYSTEMS TO MOVE STORMWATER FROM ONE POND TO THE OTHER SHALL BE ESTABLISHED AS NEEDED AND COORDINATED WITH GPC.
 3. THE EXISTING ASH POND 4 OUTLET STRUCTURE IS TO SERVE AS THE DISCHARGE POINT FOR THE TREATED WATER FROM THE DEWATERING TREATMENT SYSTEM. AS SUCH, MODIFICATIONS AND/OR OPERATION MAY BE REQUIRED TO PREVENT UNTREATED WATER FROM BEING DISCHARGED. AS THIS IS A CATEGORY I DAM REGULATED BY THE GEORGIA SAFE DAMS PROGRAM (GASDP), ANY MODIFICATIONS OR ATYPICAL OPERATIONS WILL REQUIRE THE PRIOR APPROVAL OF THE GASDP AND THE SOUTHERN COMPANY HYDRO GROUP.


**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 PHASE 4 DEVELOPMENT PLAN

CONSULTANT	DATE	REVISION
 GOLDER MEMBER OF WSP	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

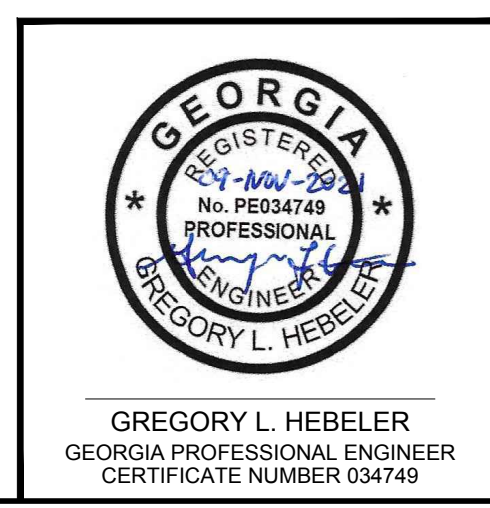
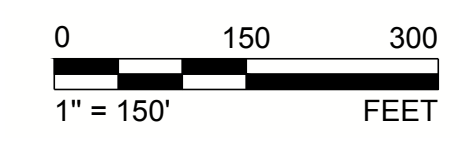
PROJECT NO. 1777449 REV. 0 SHEET 15

REFERENCES

1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SHEET IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."

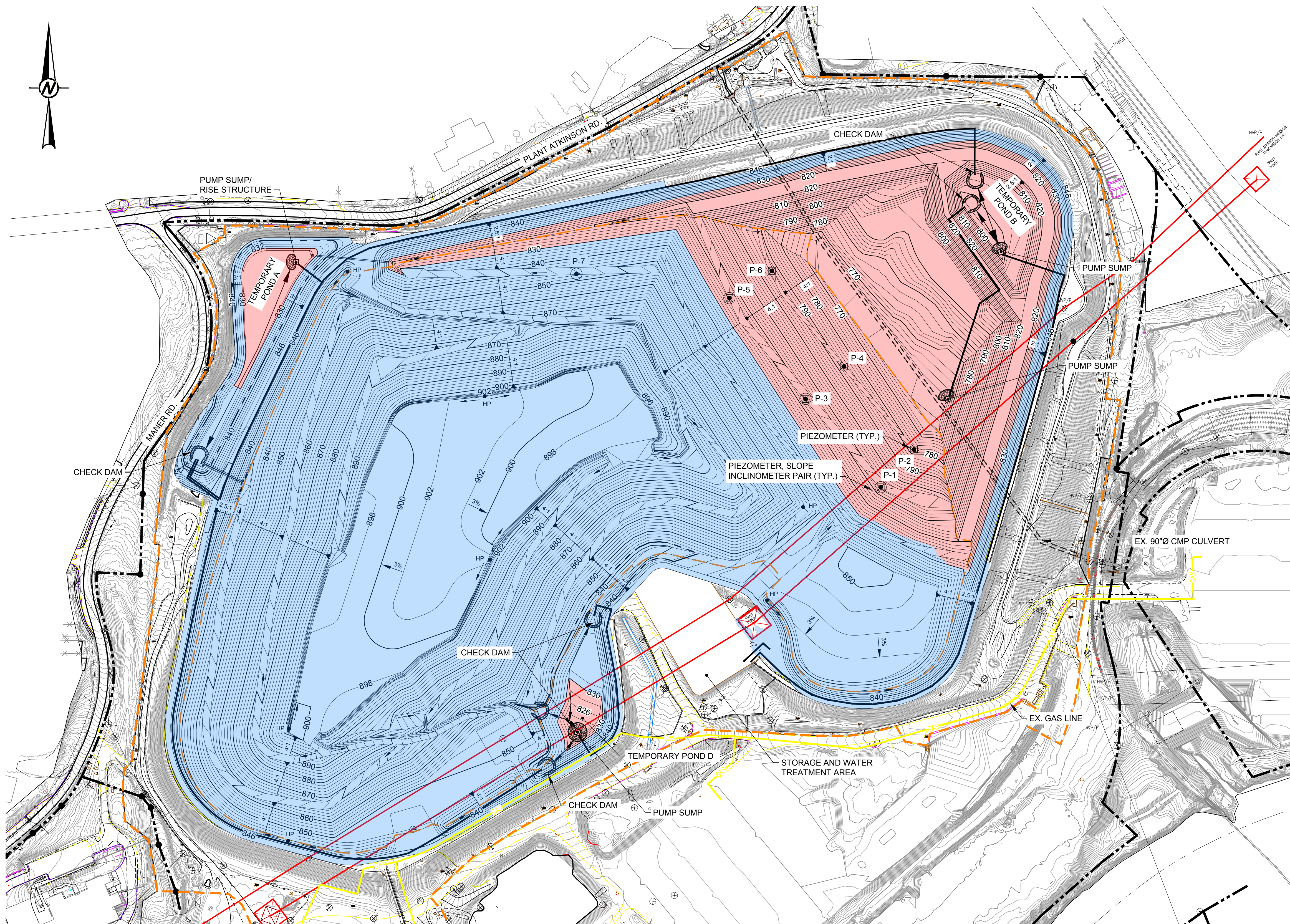
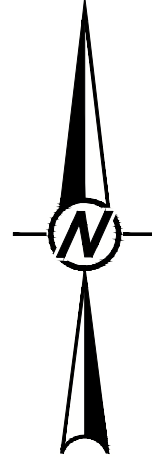
LEGEND

	EXISTING CONTOURS (MARCH 2018)		EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED		CUT CCR EXCAVATION
	PROPOSED CONTOURS		EXISTING GAS LINE		FILL CCR AND COVER MATERIAL PLACEMENT
	PROPERTY BOUNDARY MARKERS/LIMITS		VW PIEZOMETER & INCLINOMETER		
	EXISTING UNPAVED PLANT ROAD		DUAL LEVEL VW PIEZOMETER & INCLINOMETER		
	EXISTING STREAM DIVERSION CULVERT		DUAL LEVEL VW PIEZOMETER		
	PROPOSED PERMIT BOUNDARY AP-2, AP-3/4				



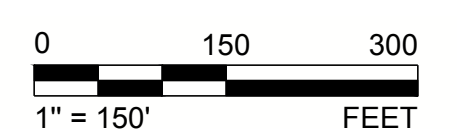
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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D



- NOTES**
1. PHASE 5 CONTINUES THE PROCESS OF EXCAVATING COAL ASH FROM THE EXISTING CONVEYANCE CULVERT CORRIDOR OF ASH POND 4 AND STACKING IT ON ASH POND 3. THIS PHASE INCLUDES ALL EXCAVATIONS TO ACHIEVE THE CLEAN CLOSURE OF THE EASTERN PORTIONS OF THE PROJECT AND STACKED HEIGHTS UP TO THE FINAL ELEVATION ESTIMATED TO BE APPROXIMATELY 898-902. NOTE THAT THE TOP OF THE STACK ON ASH POND 3 WILL BE LEFT OPEN AND MOVE UP OR DOWN AS NEEDED TO ACCOUNT FOR ACTUAL QUANTITIES OF PLACED, COMPACTED COAL ASH.
 2. TEMPORARY SEDIMENT PONDS A, B, AND D WILL ALL BE OPERATIONAL IN VARIOUS DURING OF THIS PHASE PROVIDING STORAGE FOR STORMWATER RUNOFF AND SEDIMENT CAPTURE. PUMPING SYSTEMS TO MOVE STORMWATER FROM ONE POND TO THE OTHER SHALL BE ESTABLISHED AS NEEDED.
 3. THE PORTIONS OF THE MAIN EXCAVATION SLOPE BELOW ELEVATION 860 FEET RECEIVE A SOIL FILL STABILITY BERM OF MINIMUM 30 FOOT WIDTH ON TOP OF THE FINISH ASH EXCAVATION SLOPE FOR ELEVATIONS ABOVE THE BOTTOM BENCH, AND MINIMUM 60 FOOT WIDTH BELOW THE BOTTOM BENCH AS SHOWN ON DRAWING 8.
 4. AN UNDER SLOPE DRAIN SYSTEM IS TO BE CONSTRUCTED ALONG THE FINISH ASH EXCAVATION SLOPE BENEATH THE SOIL BUTTRISS FOR ALL AREAS BELOW THE 2ND BENCH FROM THE BOTTOM AS PER SHEET 8.
 5. THE EXISTING ASH POND 4 OUTLET STRUCTURE IS TO SERVE AS THE DISCHARGE POINT FOR THE TREATED WATER FROM THE DEWATERING TREATMENT SYSTEM. AS SUCH, MODIFICATIONS AND/OR OPERATION MAY BE REQUIRED TO PREVENT UNTREATED WATER FROM BEING DISCHARGED. AS THIS IS A CATEGORY I DAM REGULATED BY THE GEORGIA SAFE DAMS PROGRAM (GASDP), ANY MODIFICATIONS OR ATYPICAL OPERATIONS WILL REQUIRE THE PRIOR APPROVAL OF THE GASDP AND THE SOUTHERN COMPANY HYDRO GROUP.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**




CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 PHASE 5 DEVELOPMENT PLAN

CONSULTANT	YYYY-MMM	2021-NOV
 GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

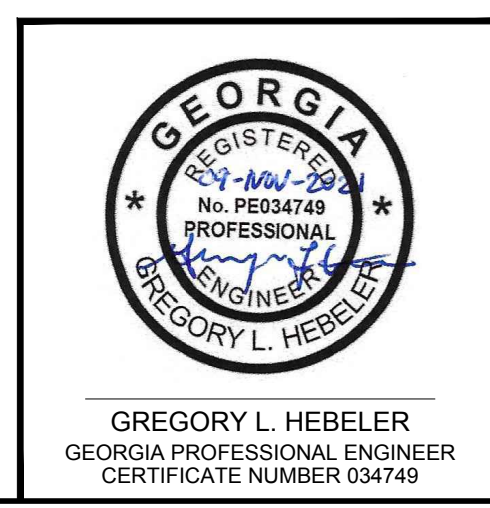
PROJECT NO. 1777449 REV. 0 SHEET 16

REFERENCES

1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SHEET IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."

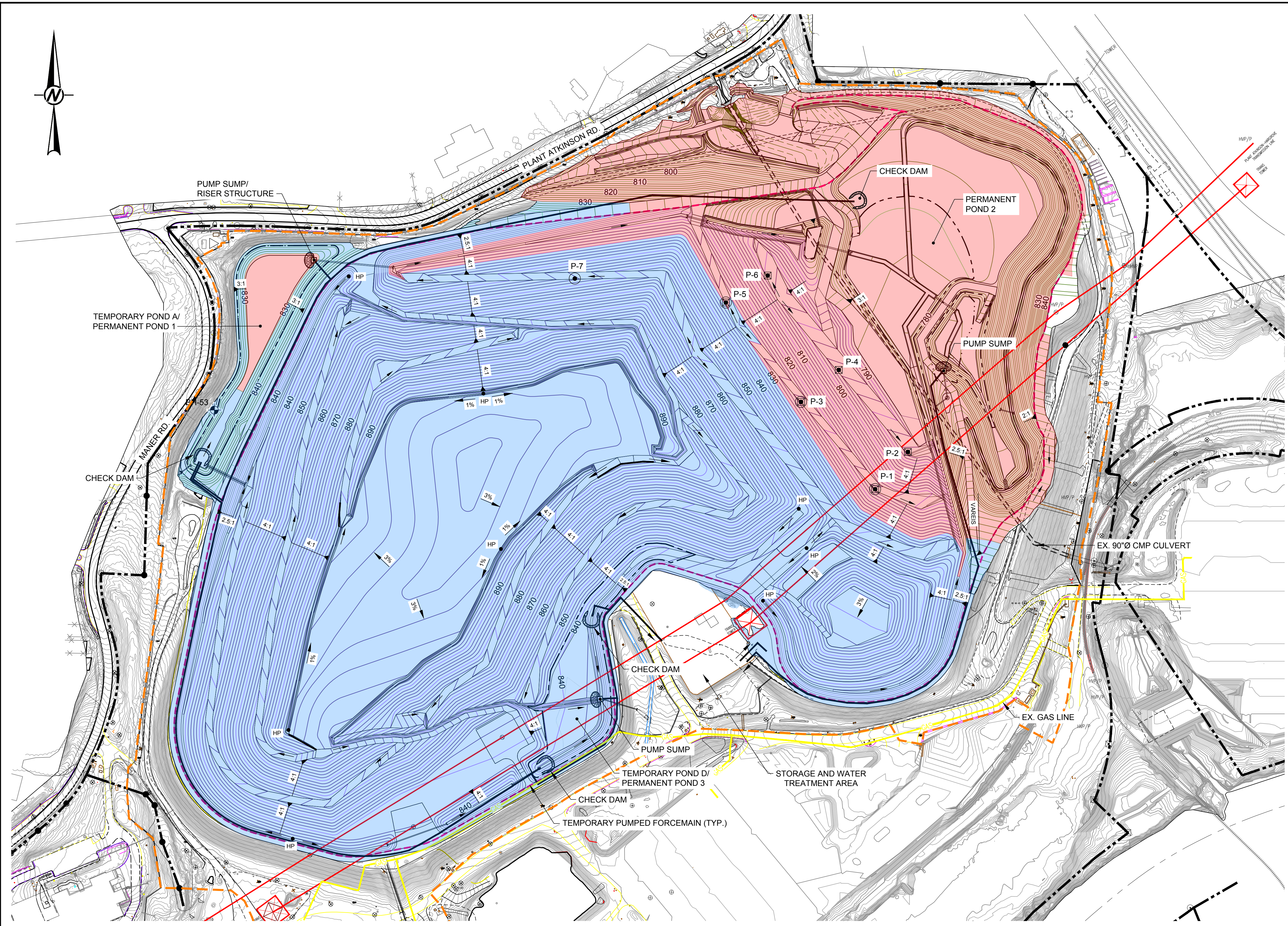
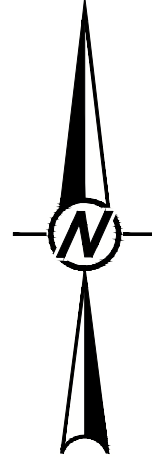
LEGEND

	EXISTING CONTOURS (MARCH 2018)		EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED		CUT CCR EXCAVATION
	PROPOSED CONTOURS		EXISTING GAS LINE		FILL CCR AND COVER MATERIAL PLACEMENT
	PROPERTY BOUNDARY MARKERS/LIMITS		VW PIEZOMETER & INCLINOMETER		
	EXISTING UNPAVED PLANT ROAD		DUAL LEVEL VW PIEZOMETER & INCLINOMETER		
	EXISTING STREAM DIVERSION CULVERT		DUAL LEVEL VW PIEZOMETER		
	PROPOSED PERMIT BOUNDARY AP-2, AP-3/4				



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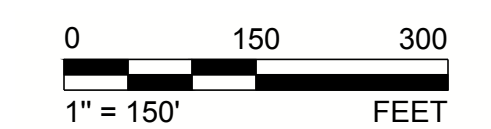
1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



NOTES

1. PHASE 6 MARKS THE COMPLETION OF FINAL GRADES AND ACCESS ROUTES TO ALL PORTIONS OF THE SITE. THIS PHASE INCLUDES THE COMPLETION OF THE STRUCTURAL FILL STABILITY BERM AND THE COMPLETION OF THE CLOSURE TURF CAPPING SYSTEM.
2. DETENTION POND 2 WILL BE CONSTRUCTED AS THE FIRST STAGE OF THIS PHASE IN ORDER TO PROVIDE STORMWATER AND SEDIMENT STORAGE FOR THE SITE WORK INVOLVED IN THIS PHASE.
3. TEMPORARY SEDIMENT POND B WILL BE DEMOLISHED IN THE EARLY STAGES OF THIS PHASE TO ALLOW FOR THE SITE WORK TO BE COMPLETED EAST OF THE EXISTING CONVEYANCE CULVERT.
4. TEMPORARY SEDIMENT PONDS A, B, AND D AND DETENTION POND 2 WILL ALL BE OPERATIONAL IN VARIOUS STAGES OF THIS PHASE PROVIDING STORAGE FOR STORMWATER RUNOFF AND SEDIMENT CAPTURE. PUMPING SYSTEMS TO MOVE STORMWATER FROM ONE POND TO THE OTHER SHALL BE ESTABLISHED AS NEEDED AND COORDINATED WITH GPC.
5. THE EXISTING ASH POND 4 OUTLET STRUCTURE IS TO SERVE AS THE DISCHARGE POINT FOR THE TREATED WATER FROM THE DEWATERING TREATMENT SYSTEM. AS SUCH, MODIFICATIONS AND/OR OPERATION MAY BE REQUIRED TO PREVENT UNTREATED WATER FROM BEING DISCHARGED. AS THIS IS A CATEGORY I DAM REGULATED BY THE GEORGIA SAFE DAMS PROGRAM (GASDP), ANY MODIFICATIONS OR ATYPICAL OPERATIONS WILL REQUIRE THE PRIOR APPROVAL OF THE GASDP AND THE SOUTHERN COMPANY HYDRO GROUP.
6. DETENTION PONDS 1, 2, AND 3 WILL NOT BE CONVERTED TO PERMANENT STORMWATER MANAGEMENT PONDS UNTIL 1) ALL COAL ASH HAS BEEN CAPPED; 2) ALL STORMWATER CONTROLS HAVE BEEN CONSTRUCTED; 3) ALL NON-CAPPED PORTIONS OF DISTURBANCE HAVE BEEN PERMANENTLY STABILIZED; AND 4) ALL SEDIMENTS CAPTURED IN THE PONDS HAVE BEEN REMOVED AND ASH REMOVED AS PER REMOVAL PROTOCOLS.
7. THE PORTIONS OF THE MAIN EXCAVATION SLOPE BELOW ELEVATION 860 FEET RECEIVE A STRUCTURAL FILL STABILITY BERM OF MINIMUM 30 FOOT HORIZONTAL WIDTH ON TOP OF THE FINISH ASH EXCAVATION SLOPE FOR ELEVATIONS ABOVE THE BOTTOM BENCH, AND MINIMUM 60 FOOT HORIZONTAL WIDTH BELOW THE BOTTOM BENCH AS SHOWN ON DRAWING 8.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**




CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 PHASE 6 DEVELOPMENT PLAN




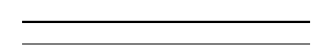



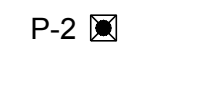
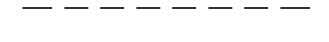

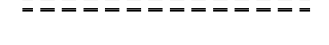


CONSULTANT	YYYY-MMM	2021-NOV
 GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

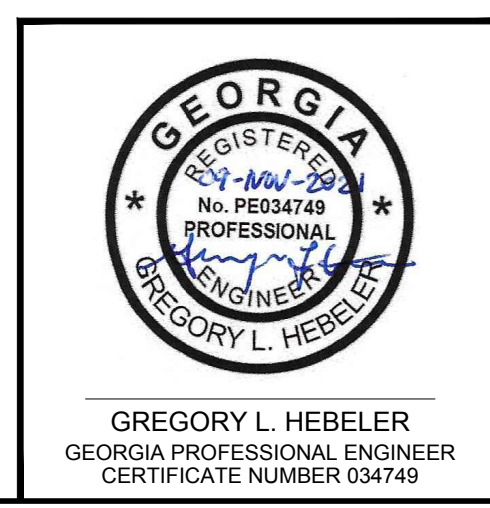
PROJECT NO. 1777449	REV. 0	SHEET 17
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REFERENCES

1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SHEET IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."

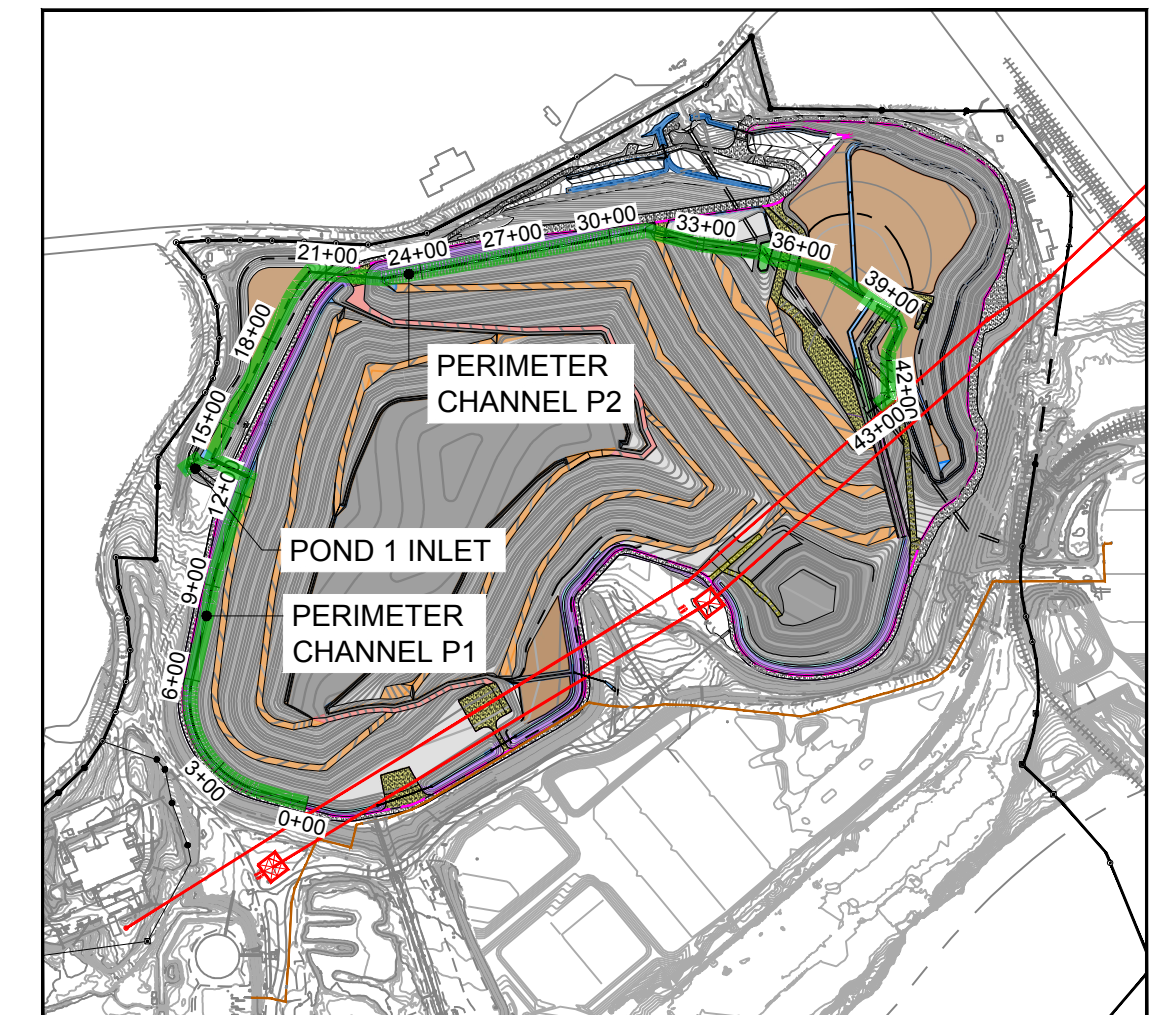
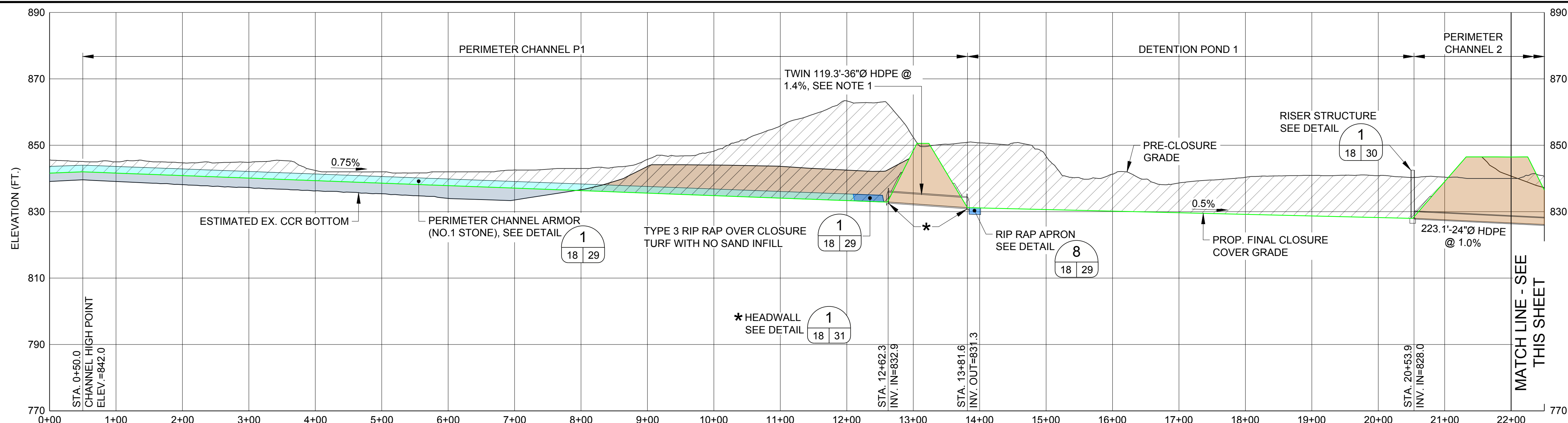
LEGEND

	EXISTING CONTOURS (MARCH 2018)		EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED		CUT EXCAVATION
	PROPOSED CONTOURS		EXISTING GAS LINE		FILL AND COVER MATERIAL PLACEMENT
	PROPERTY BOUNDARY MARKERS/LIMITS		VW PIEZOMETER & INCLINOMETER		
	EXISTING UNPAVED PLANT ROAD		DUAL LEVEL VW PIEZOMETER & INCLINOMETER		
	EXISTING STREAM DIVERSION CULVERT		DUAL LEVEL VW PIEZOMETER		
	PROPOSED PERMIT BOUNDARY AP-2, AP-3/4				



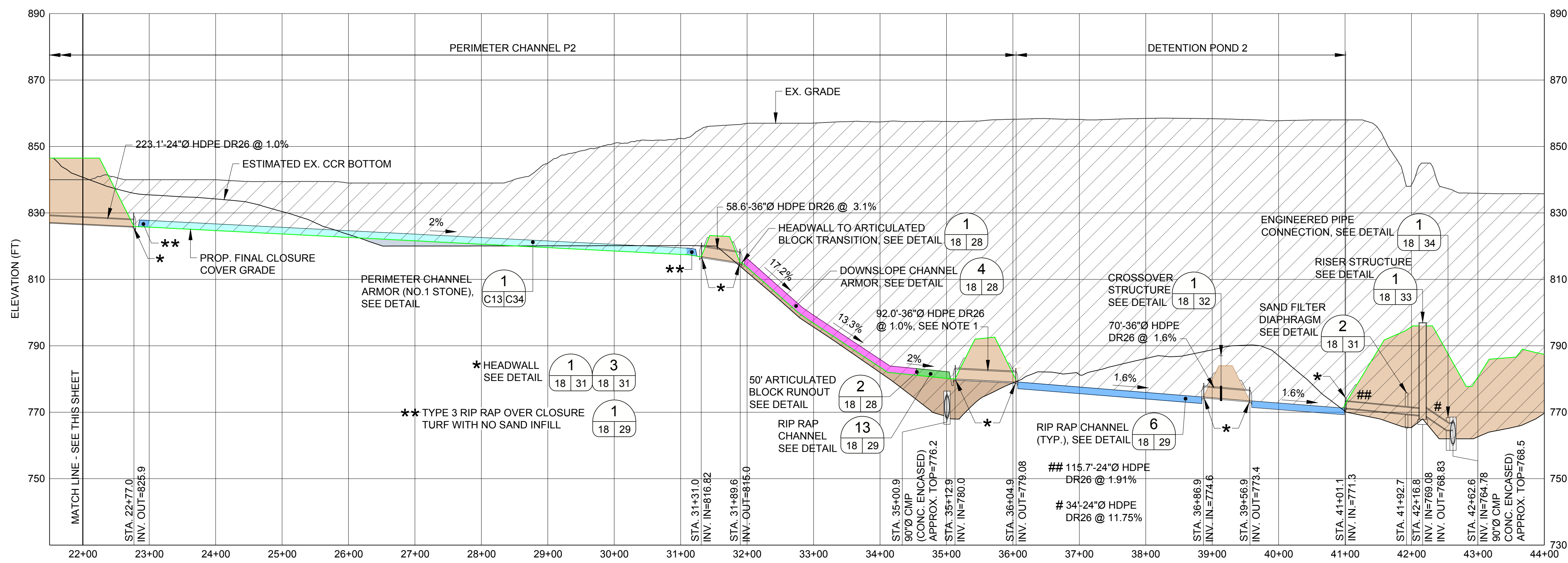
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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D

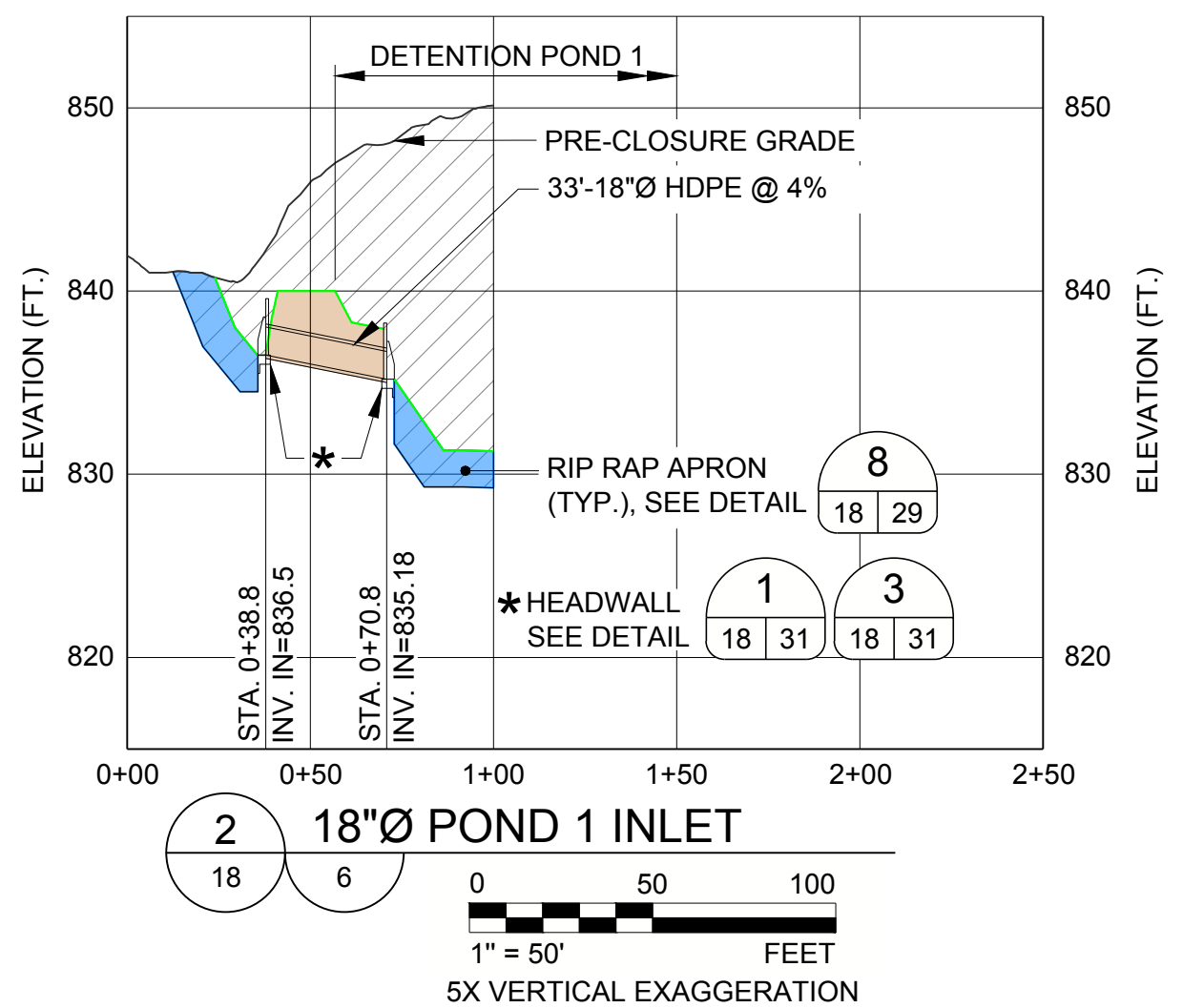


LEGEND

	EXISTING CCR TO REMAIN
	EXISTING EMBANKMENT FILL
	CCR / SOIL TO BE REMOVED
	CCR FILL
	SOIL FILL
	HYDRO TURF OVER SUPERGRIPNET
	ARMORFLEX ON CLOSURE TURF OVER SUPERGRIPNET (NO SAND INFILL)
	TYPE 1 RIP RAP
	TYPE 3 RIP RAP
	NO.1 STONE OR TYPE 3 RIP RAP



**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



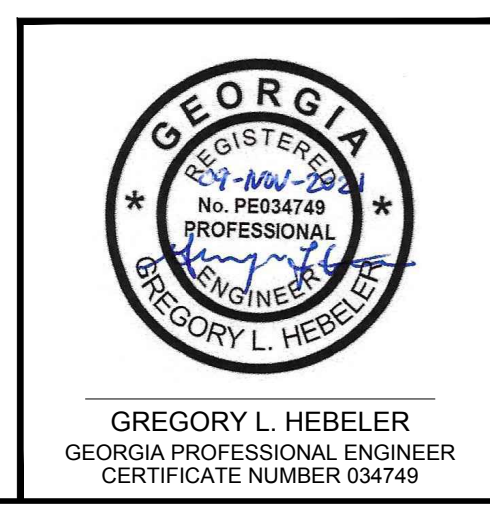
NOTES

1. CULVERT TO BE INSTALLED SO THAT NO ASH IS WITHIN 5 FOOT MINIMUM RADIAL DISTANCE AROUND PIPE.

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."

2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.



CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

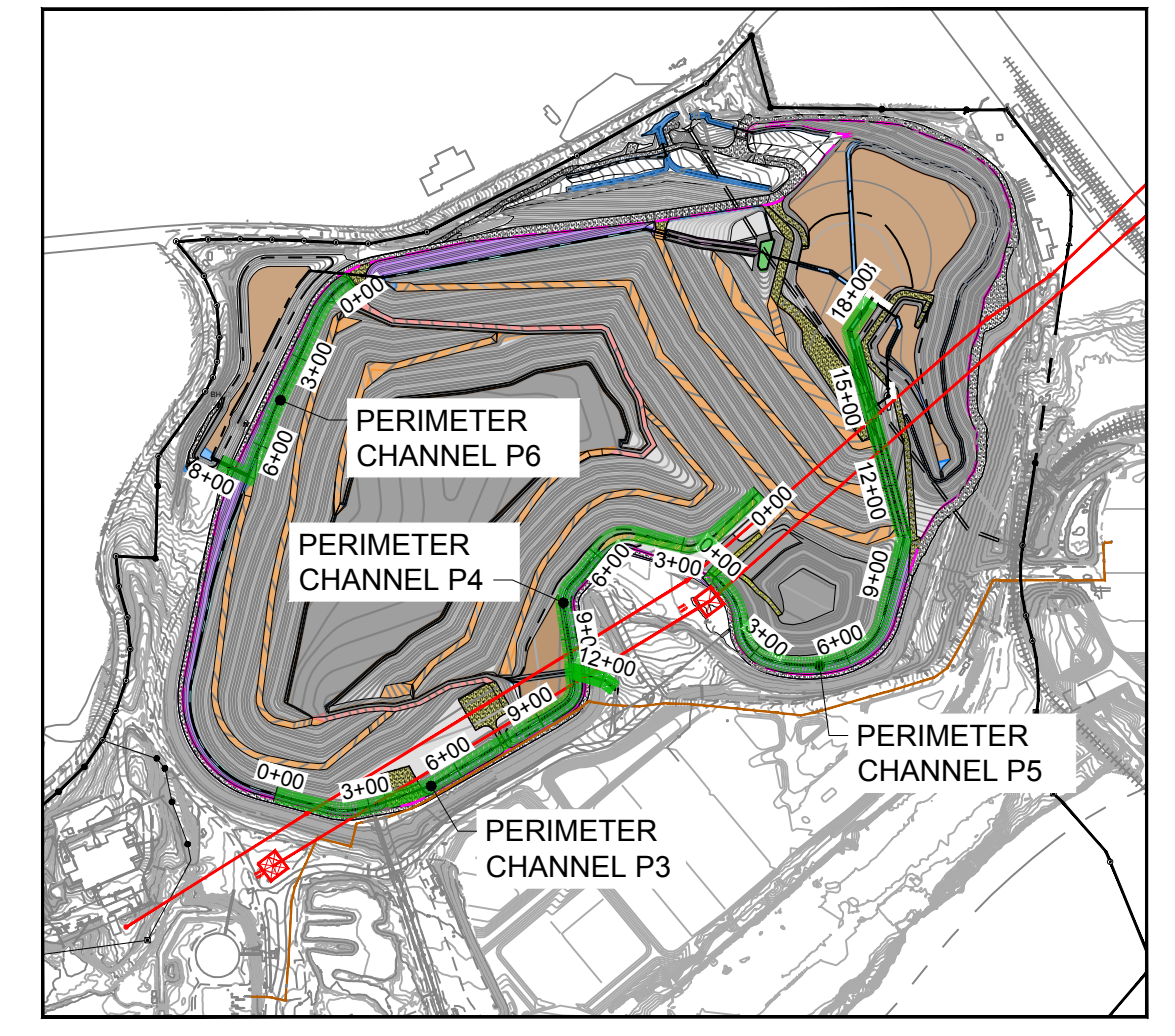
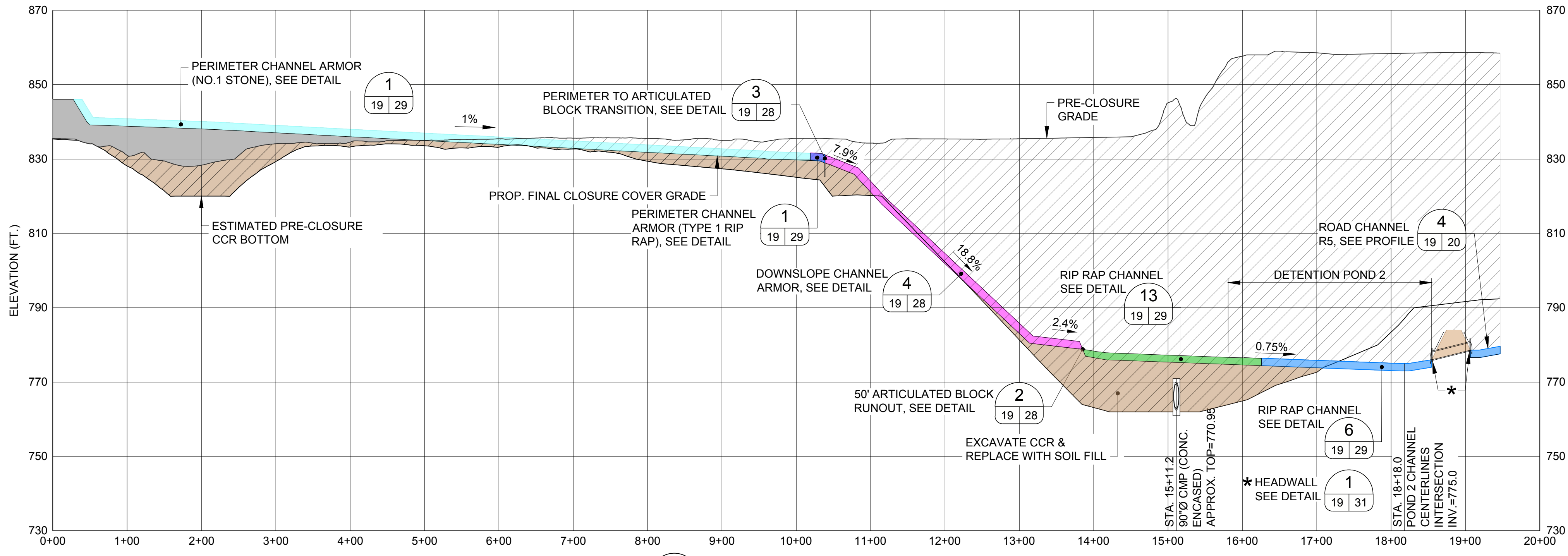
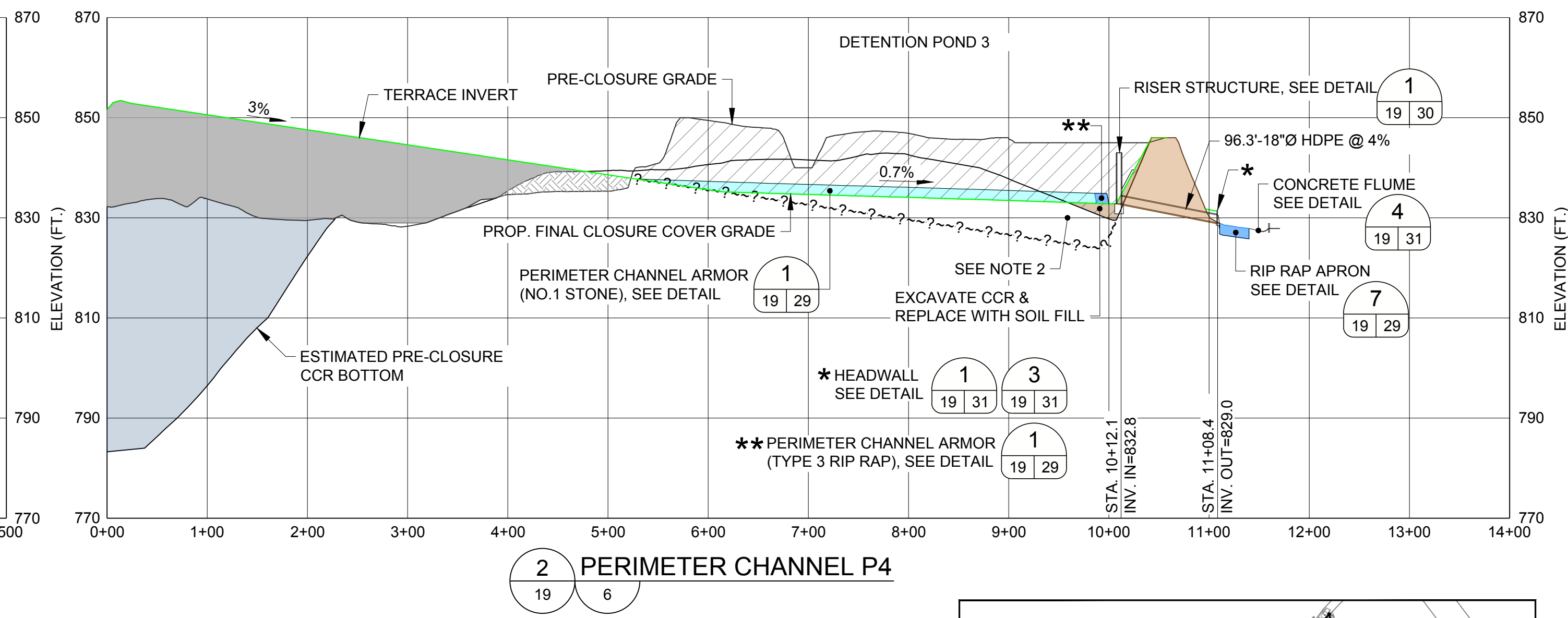
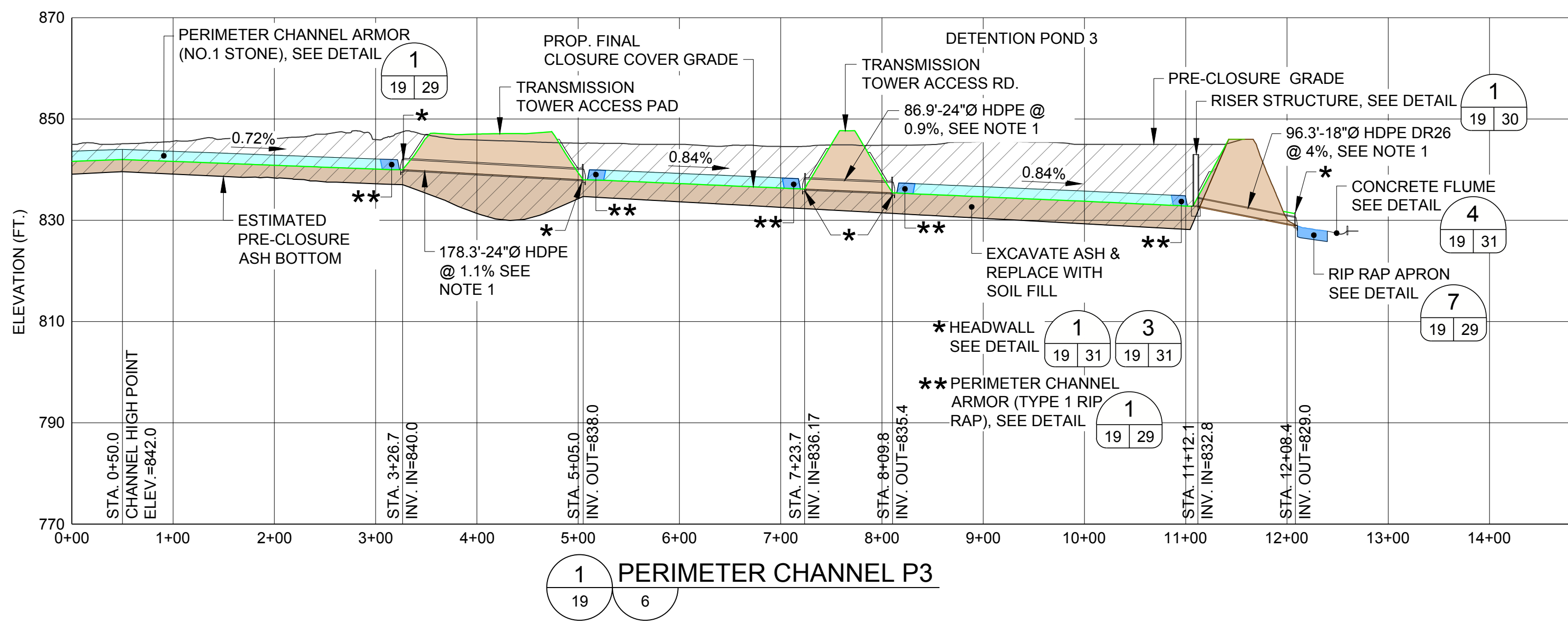
TITLE
AP - 3/4 CHANNEL PROFILES - SHEET 1 OF 3

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
PREPARED	AVR	
CHECKED	LS	
REVIEWED / APPROVED	GLH	

PROJECT NO. 1777449 REV. 0 SHEET 18

Path: \\atlantadfs01\Southern Company\1777449\Plant McDonough\Permitting\AP-3&4-AP-2\AP-3&4\PRODUCTION\1 - File Name: 1777449 16-20 CHANNEL PROFILES.dwg

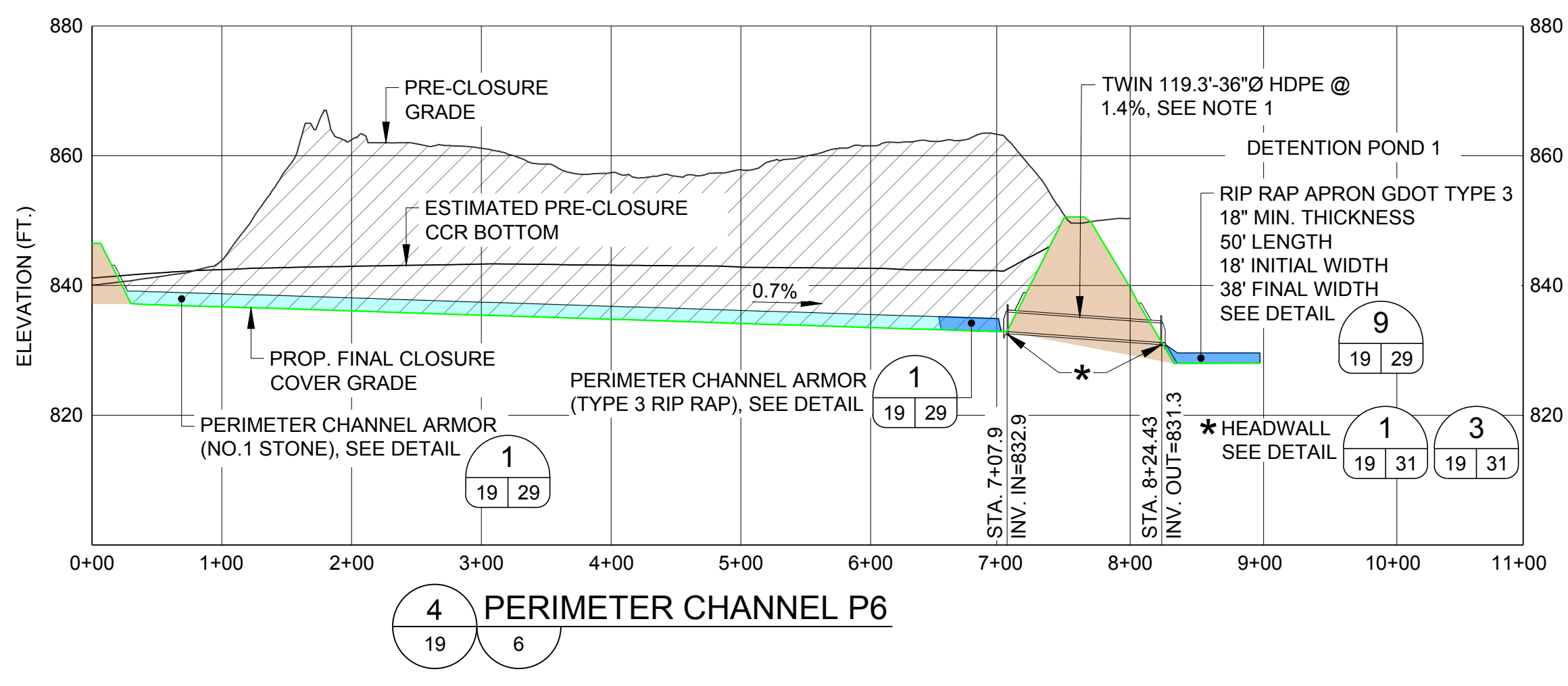
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



NOTES

- CULVERT TO BE INSTALLED SO THAT NO ASH IS WITHIN 5 FOOT MINIMUM RADIAL DISTANCE AROUND PIPE.
- IF ADDITIONAL ASH EXISTS BELOW LIMITS OF DETENTION POND EXCAVATE PER REMOVAL PROTOCOLS AND REPLACE WITH SOIL FILL BETWEEN LINES EXTENDING FROM INTERIOR DAM FACE AND FINAL CLOSURE SLOPE.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

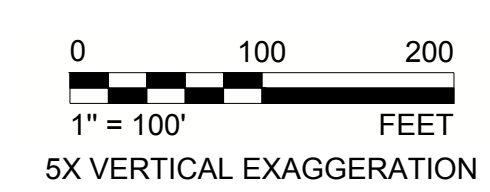


LEGEND

	EXISTING CCR TO REMAIN
	EXISTING EMBANKMENT FILL
	ASH / SOIL TO BE REMOVED
	CCR FILL
	SOIL FILL
	HYDRO TURF OVER SUPERGRIPNET
	ARMORFLEX ON CLOSURE TURF
	TYPE 1 RIP RAP
	TYPE 3 RIP RAP
	NO. 1 STONE OR TYPE 3 RIP RAP

REFERENCES

- THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO. INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
- REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.



CLIENT
GEORGIA POWER COMPANY

PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
AP - 3/4 CHANNEL PROFILES - SHEET 2 OF 3

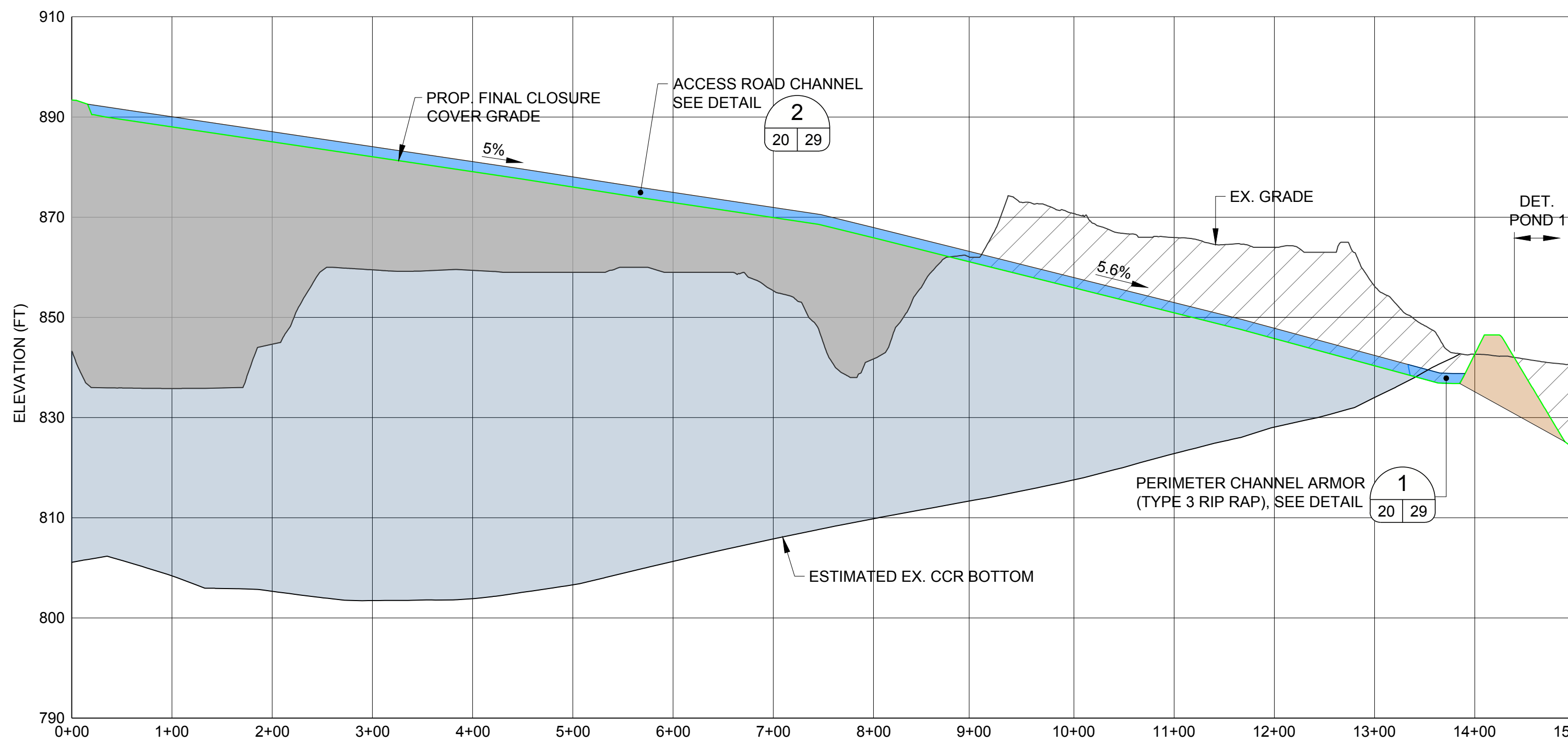
CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MMM	2021-NOV
DESIGNED	GLH
PREPARED	AVR
CHECKED	LS
REVIEWED / APPROVED	GLH

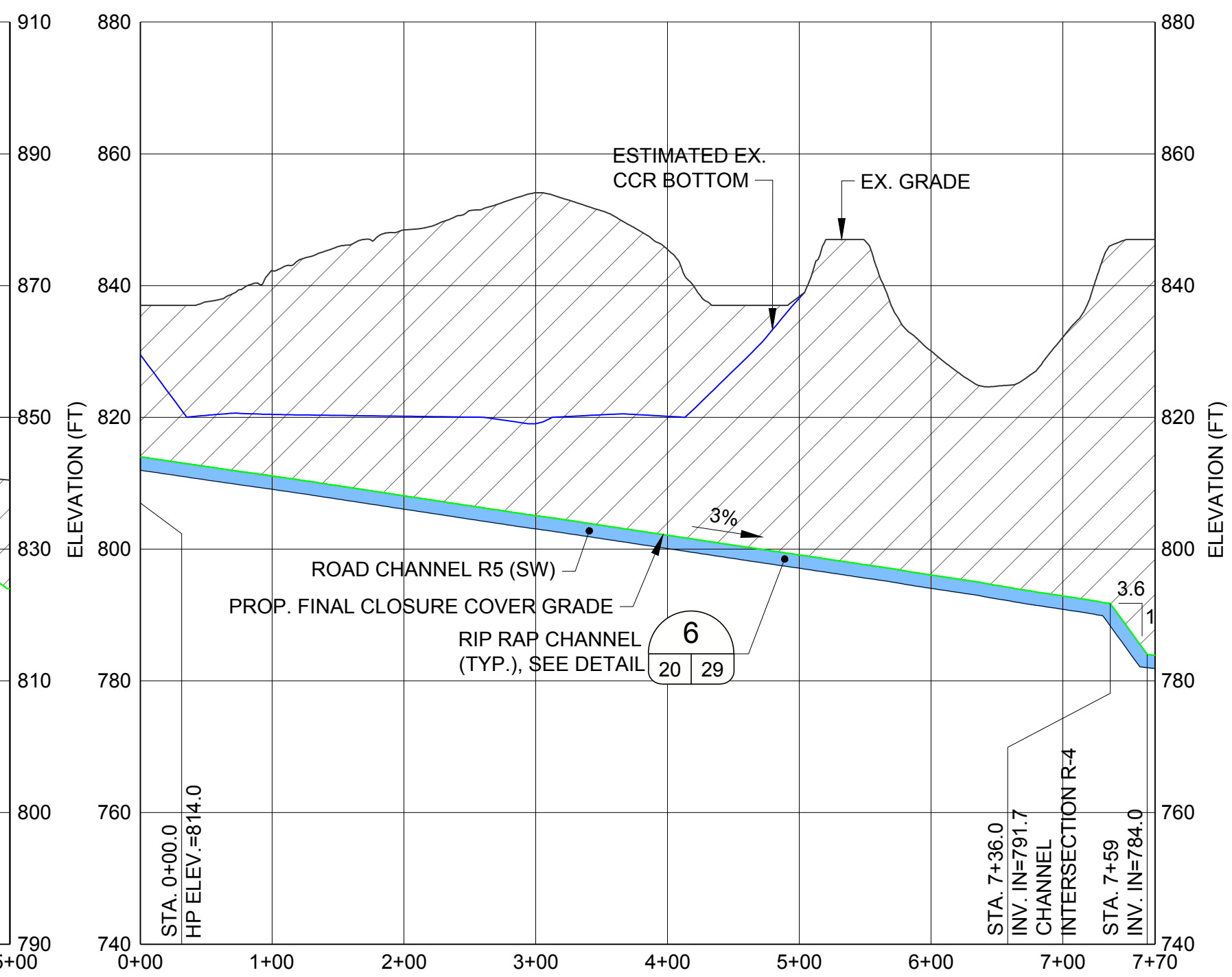
PROJECT NO. 1777449 **REV.** 0 **SHEET** 19

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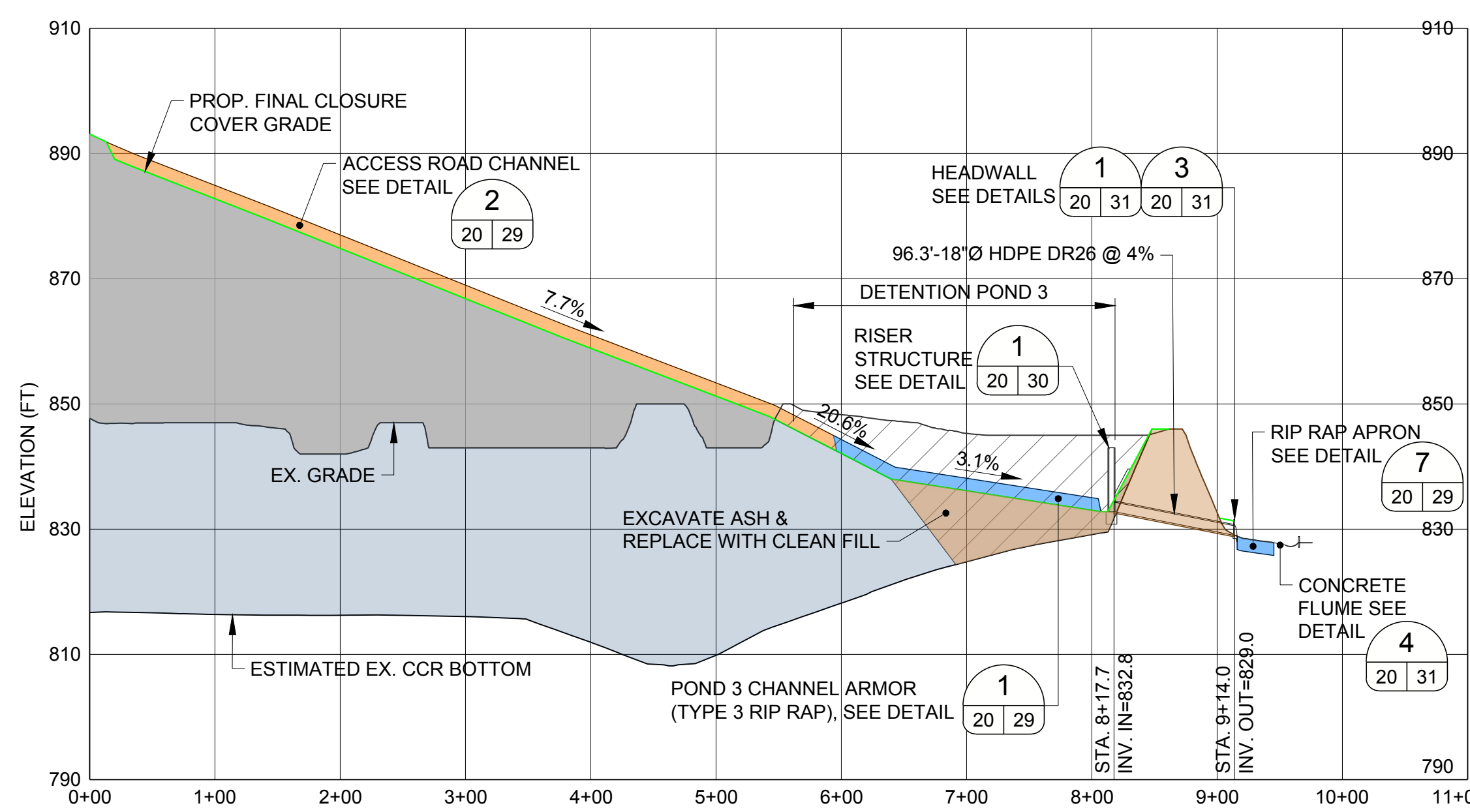
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS-D



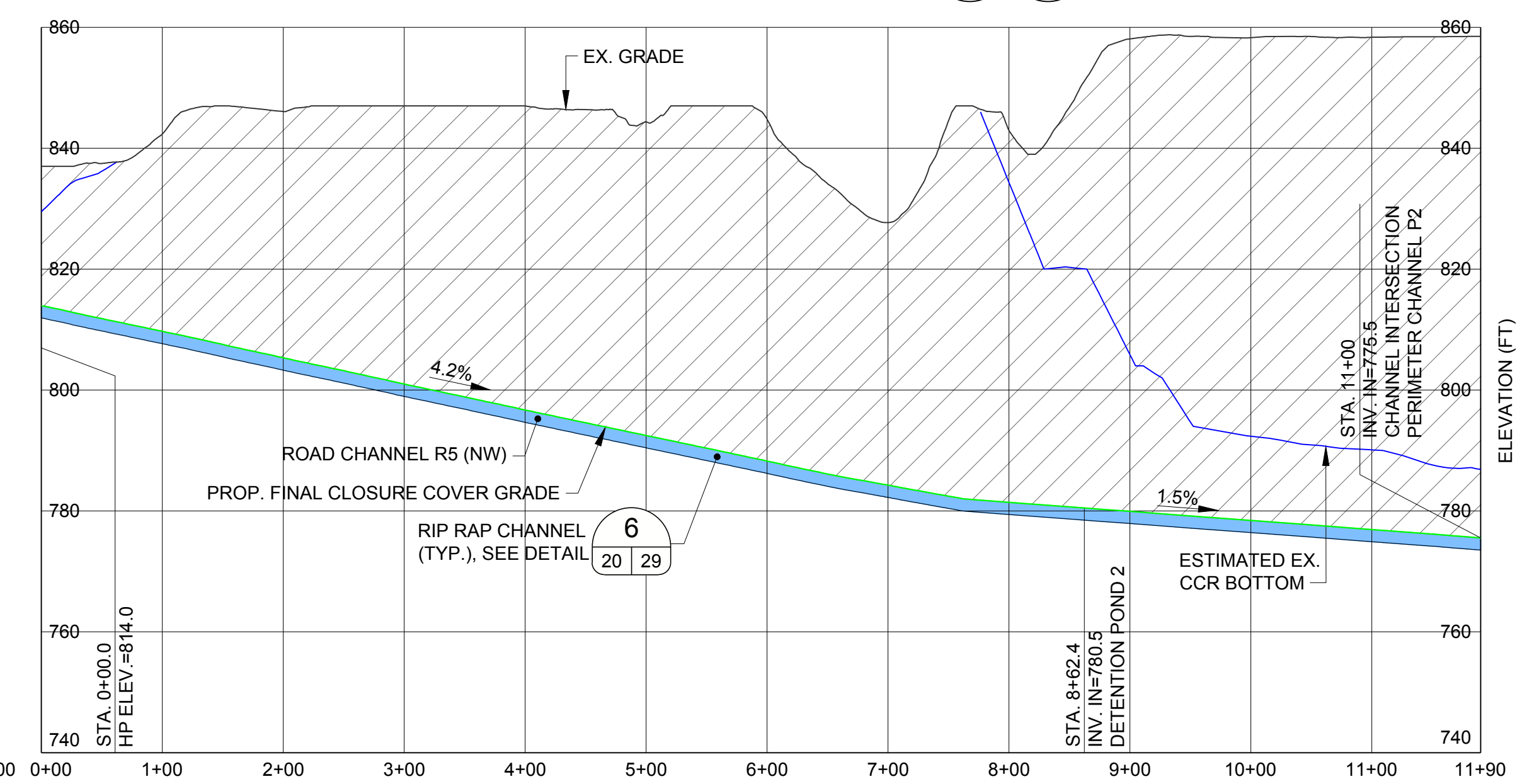
2 ROAD CHANNEL R2
20 6



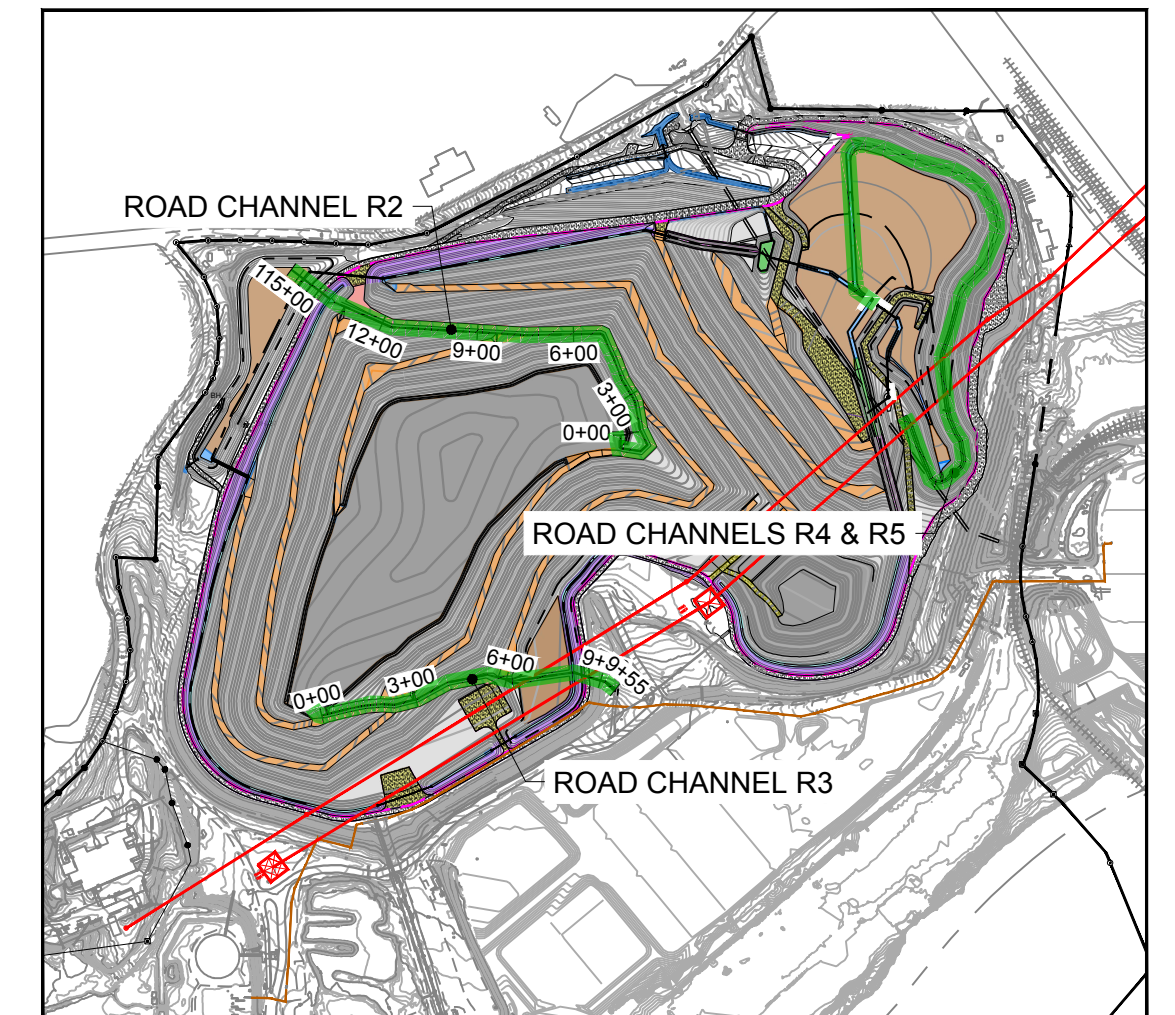
4 ROAD CHANNEL R5 (SW)
20 6



3 ROAD CHANNEL R3
20 6



5 ROAD CHANNEL R5 (NW)
20 6



LEGEND

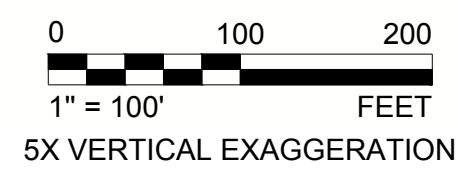
	PROPOSED ASH FILL
	CCR TO REMAIN
	CCR TO BE REMOVED
	EMBANKMENT FILL
	SOIL FILL
	HYDRO TURF OVER SUPERGRIPNET
	ARMORFLEX ON CLOSURE TURF OVER SUPERGRIPNET (NO SAND INFILL)
	TYPE 1 RIP RAP
	TYPE 3 RIP RAP
	NO.1 STONE OR TYPE 3 RIP RAP

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."

2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.



CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

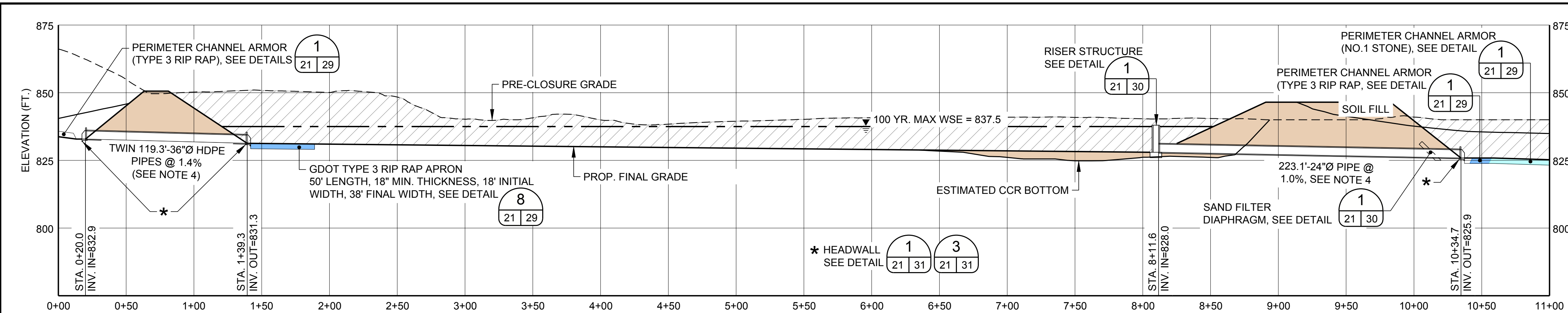
TITLE
AP - 3/4 CHANNEL PROFILES - SHEET 3 OF 3

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	AVR
	CHECKED	LS
	REVIEWED / APPROVED	GLH

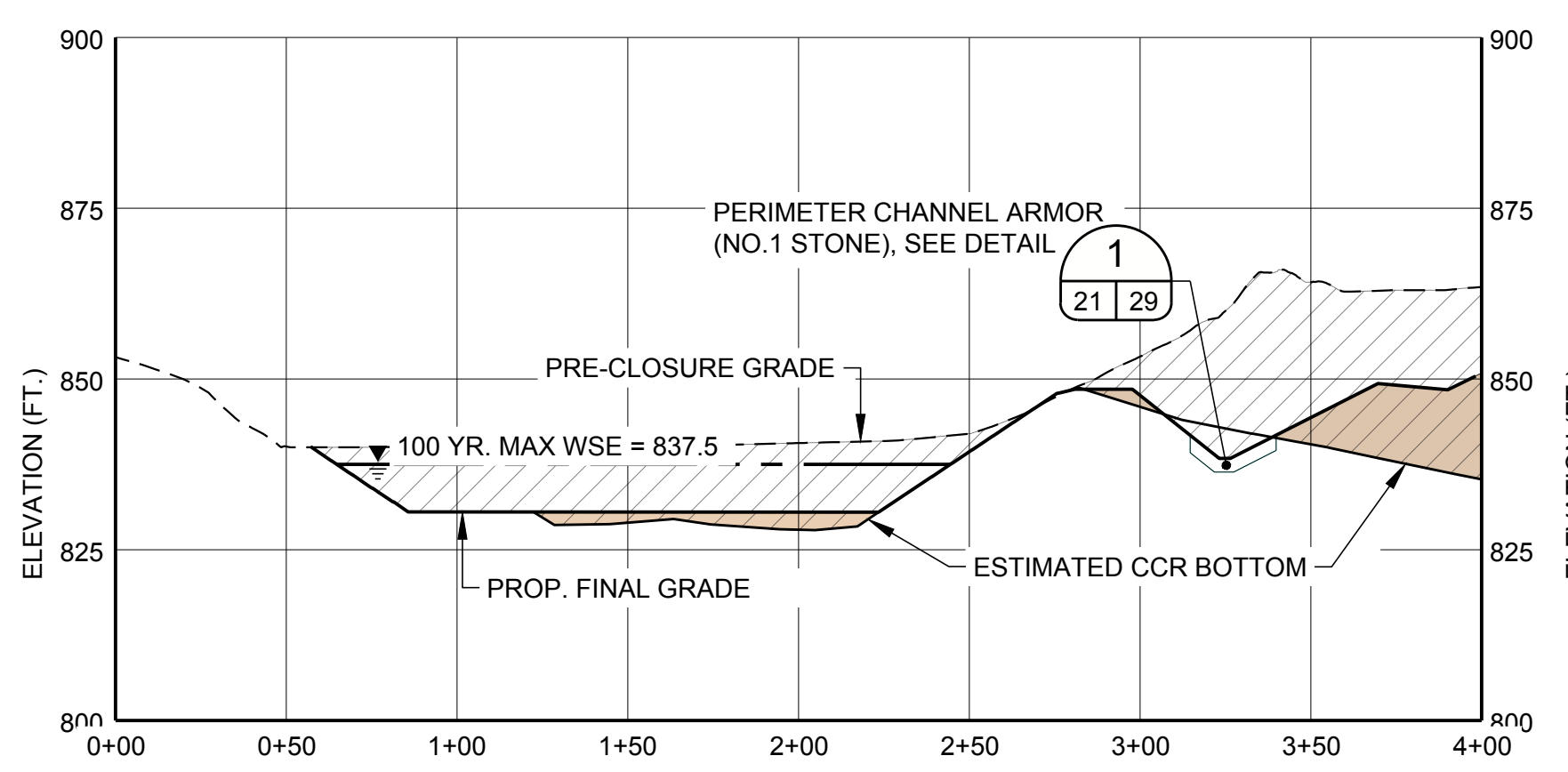
PROJECT NO. 1777449
REV. 0
SHEET 20

Path: \\atlantia\cadd\Southern Company\1777449 Plant McDonough\Permitting\AP-3&4-AP-2\AP-3&4-AP-2\CHANNEL PROFILES.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



A DETENTION POND 1 - SECTION A-A
 21 21
 0 50 100
 1" = 50' FEET
 2X VERTICAL EXAGGERATION



B DETENTION POND 1 - SECTION B-B
 21 21
 0 50 100
 1" = 50' FEET
 2X VERTICAL EXAGGERATION

- LEGEND**
- PRE-CLOSURE CONTOURS
 - UNPAVED PLANT ROAD
 - PROPERTY BOUNDARY MARKERS/LIMITS
 - EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
 - PROPOSED CONTOURS
 - LIMITS OF CLOSURE
 - PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
 - HYDRO TURF OVER SUPERGRIPNET
 - TYPE 3 RIP-RAP
 - NO.1 STONE OR TYPE 3 RIP-RAP
 - NO.4 STONE BALLAST
 - ARMORFLEX ON CLOSURE TURF OVER SUPERGRIPNET (NO SAND INFILL)
 - TOP OF SLOPE DIVERSION WITH ROCK FILL
 - CLOSURE TURF OVER SUPERGRIPNET (SEE NOTE 1)
 - CLOSURE TURF OVER MICROSPIKE
 - GEO-CELL ACCESS ROAD
 - GRAVEL ROAD OVER CLOSURE TURF WITH EDGE CURB
 - GRAVEL ROAD OUTSIDE OF CLOSURE TURF

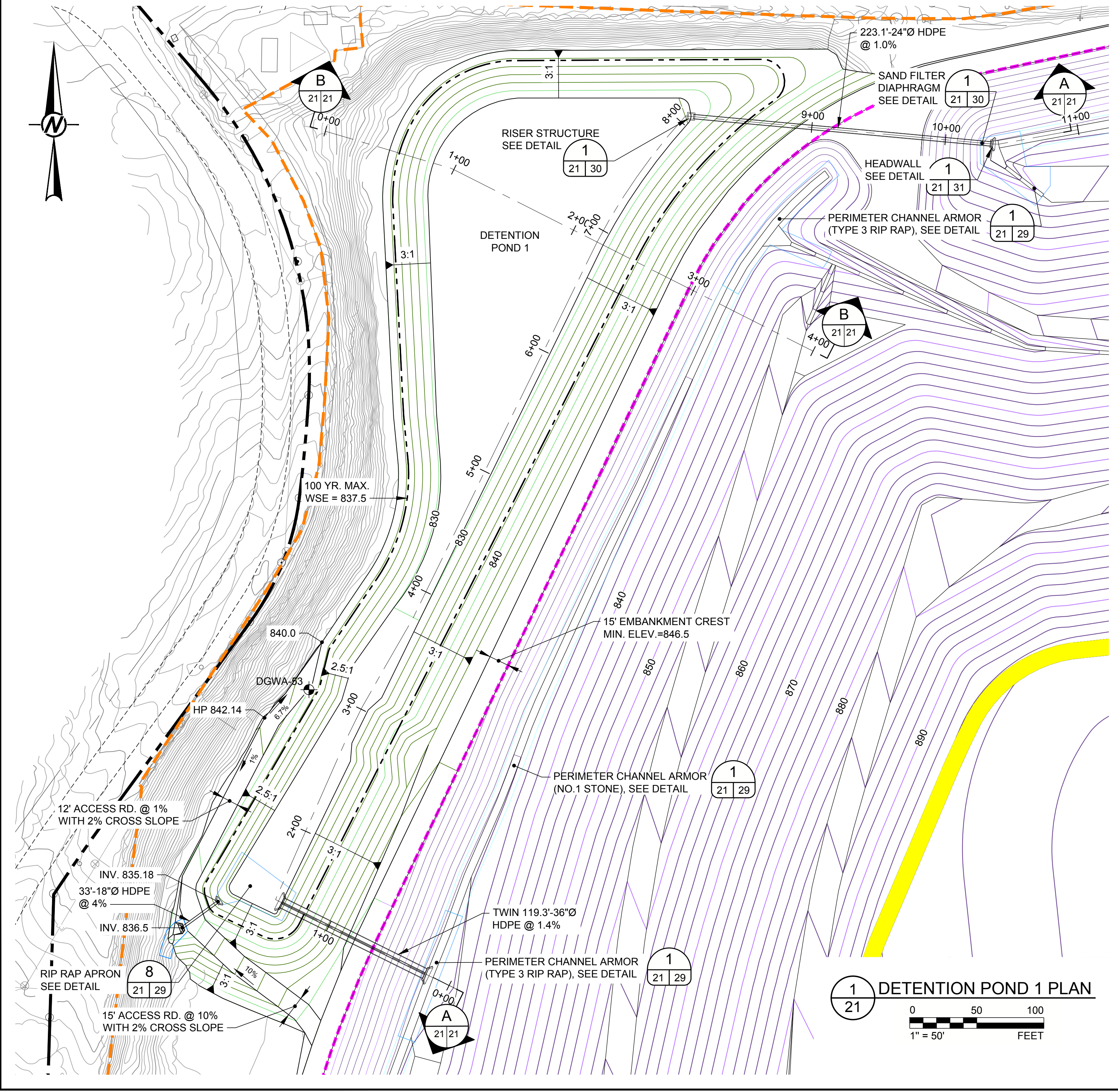
- NOTES**
1. SUPERGRIPNET TO BE AGRU 50 MIL LLDPE.
 2. MICROSPIKE TO BE AGRU 40 MIL (MIN.) LLDPE GEOMEMBRANE LINER.
 3. CLOSURE TURF TO CONTAIN SAND INFILL MINIMUM 1/2" THICKNESS UNLESS OTHERWISE INDICATED.
 4. CULVERT TO BE INSTALLED IN 5' MIN. RADIAL ZONE OF SOIL FILL.
 5. DETENTION POND 1 SERVES AS TEMPORARY SEDIMENT POND A DURING ALL PHASES OF CONSTRUCTION PROVIDING STORAGE FOR STORMWATER RUNOFF AND SEDIMENT CAPTURE.
 6. HYDROLOGIC AND HYDRAULIC PARAMETERS (PROJECT COMPLETION CONDITIONS):
 - A. APPROXIMATELY 12.5 ACRE-FEET UP TO ELEVATION 840 OF STORAGE CAPACITY.
 - B. DRAINAGE AREA APPROXIMATELY 29 ACRES IN FINAL CONDITION.
 - C. 100-YEAR, 24 HOUR STORM MAXIMUM WATER SURFACE ELEVATION: 837.5 FT-MSL
 - D. 100-YEAR, 24-HOUR STORM MINIMUM FREEBOARD PROVIDED: 2.5 FT
 - E. MAXIMUM 100-YEAR, 24 HOUR STORM INFLOW TO POND: 106 CFS
 - F. MAXIMUM 100-YEAR, 24 HOUR STORM OUTFLOW FROM POND: 12 CFS

- HATCH LEGEND**
- CCR TO REMAIN
 - EXISTING EMBANKMENT FILL
 - CCR/SOIL TO BE REMOVED
 - PROPOSED CCR FILL
 - PROPOSED SOIL FILL

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."

2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.



1 DETENTION POND 1 PLAN
 21
 0 50 100
 1" = 50' FEET

**FOR PERMITTING PURPOSES
 NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
 ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
 & ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 DETENTION POND 1 DETAILS

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

GREGORY L. HEBEL
 GEORGIA PROFESSIONAL ENGINEER
 CERTIFICATE NUMBER 034749

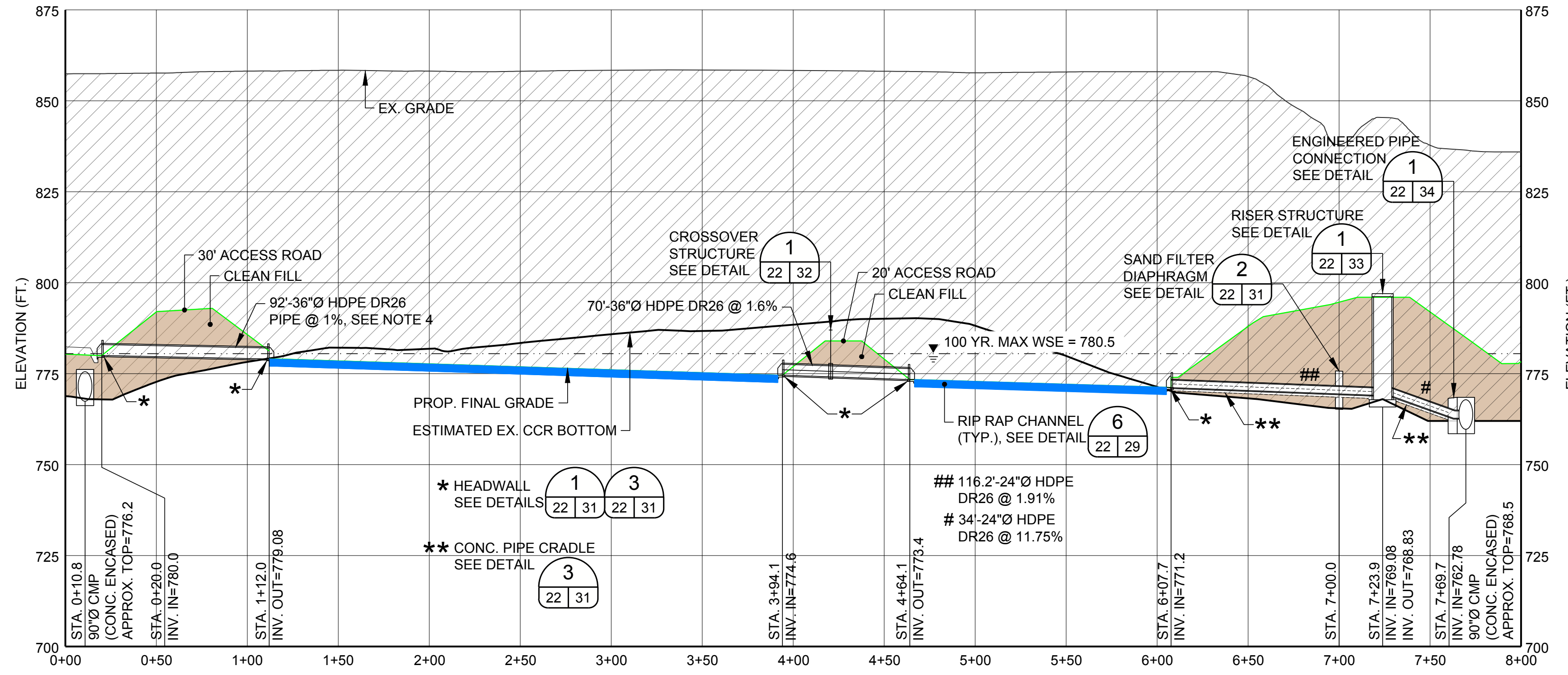
PROJECT NO.
1777449

REV.
0

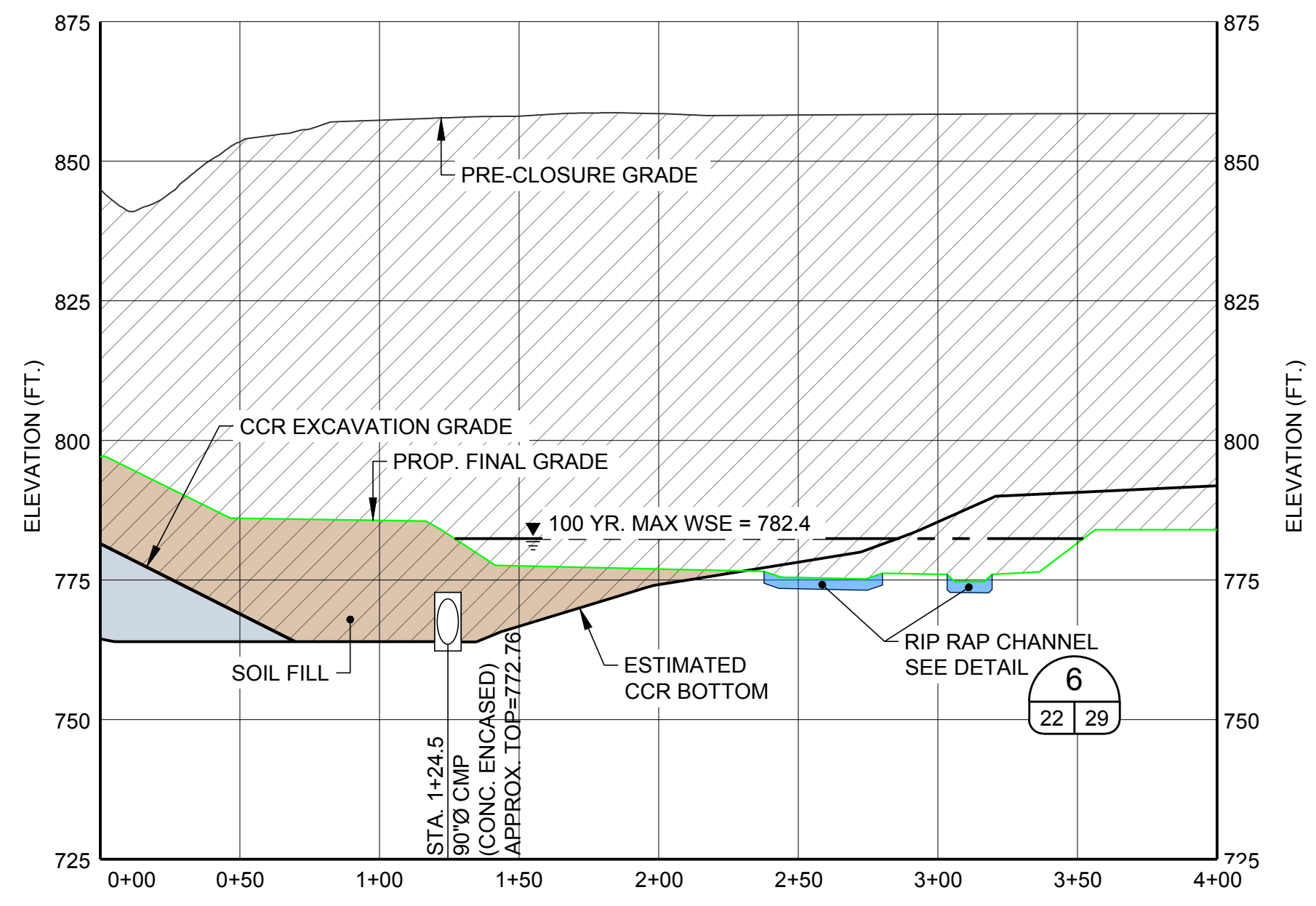
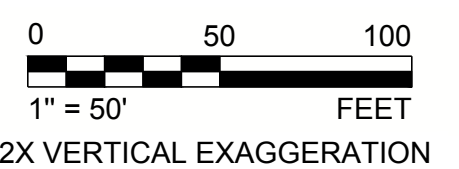
SHEET
21

Path: \\atlantafacstaff\Southern Company\1777449 Plant McDonough Permitting\AP-3&4\AP-3&4\PRODUCTION\1 - File Name: 1777449 21-53 DETENTION POND1-1.dwg

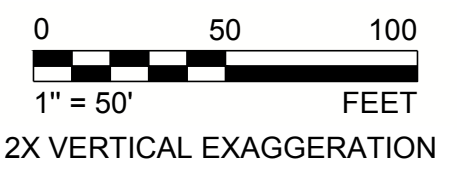
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



A DETENTION POND 2 - SECTION A-A
22 22

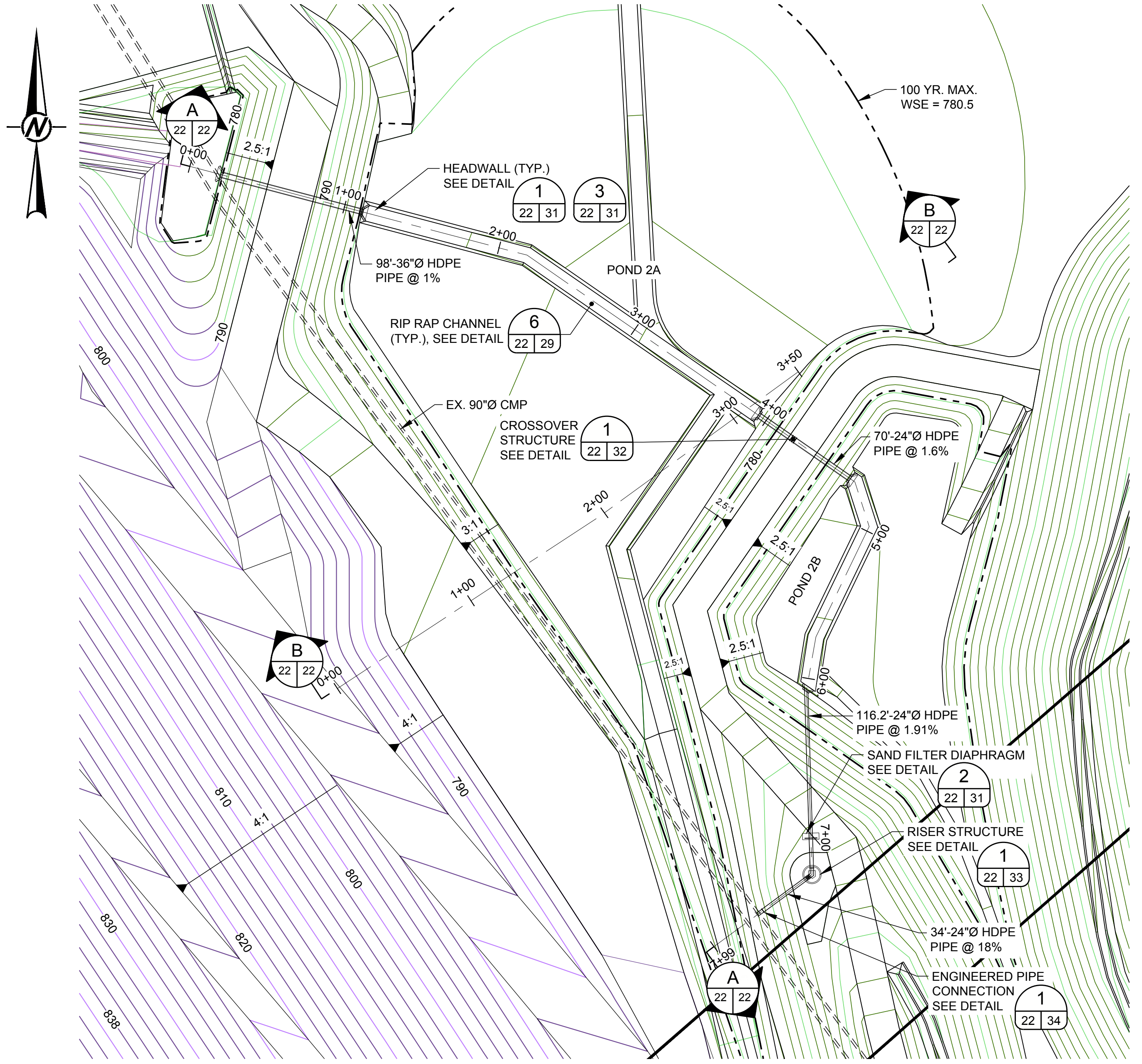


B DETENTION POND 2 - SECTION B-B
22 22

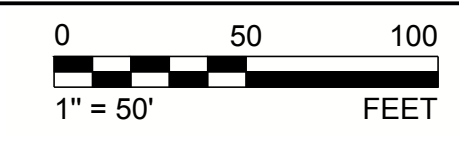


LEGEND

- PRE-CLOSURE CONTOURS
- UNPAVED PLANT ROAD
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
- PROPOSED CONTOURS
- LIMITS OF CLOSURE
- HYDRO TURF OVER SUPERGRIPNET
- TYPE 3 RIP-RAP
- NO.1 STONE OR TYPE 3 RIP-RAP
- NO.4 STONE BALLAST
- ARMORFLEX ON CLOSURE TURF OVER SUPERGRIPNET (NO SAND INFILL)
- TYPE 1 RIP-RAP
- CLOSURE TURF OVER SUPERGRIPNET (SEE NOTE 1)
- CLOSURE TURF OVER MICROSPIKE
- GEO-CELL ACCESS ROAD
- GRAVEL ROAD OVER CLOSURE TURF WITH EDGE CURB
- GRAVEL ROAD OUTSIDE OF CLOSURE TURF



1 DETENTION POND 2 PLAN
22 22



HATCH LEGEND

- CCR TO REMAIN
- EXISTING EMBANKMENT FILL
- CCR/SOIL TO BE REMOVED
- PROPOSED CCR FILL
- PROPOSED SOIL FILL

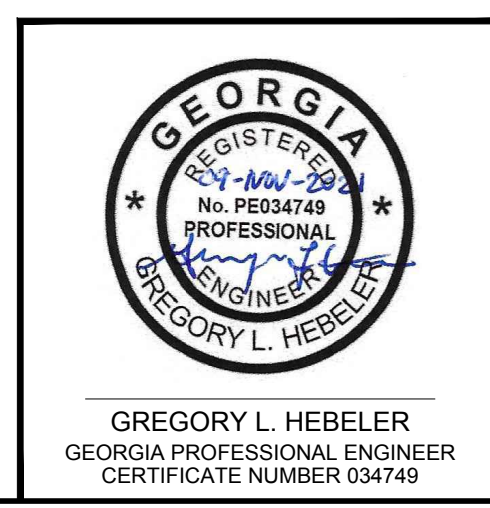
REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.

NOTES

1. SUPERGRIPNET TO BE AGRU 50 MIL LLDPE OR AGRU 50 MIL LLDPE MICRODRAIN.
2. MICROSPIKE TO BE AGRU 40 MIL (MIN.) LLDPE GEOMEMBRANE LINER.
3. CLOSURE TURF TO CONTAIN SAND INFILL MINIMUM 1/2" THICKNESS UNLESS OTHERWISE INDICATED.
4. CULVERT TO BE INSTALLED IN 5' MIN. RADIAL ZONE OF SOIL FILL.
5. DETENTION POND 2 WILL SERVE TEMPORARILY AS A SEDIMENT POND DURING THE FINAL PHASE OF CONSTRUCTION.
6. OUTFLOWS FROM THE POND 2 OUTLET STRUCTURE ARE NOT PERMITTED UNTIL 100% SITE STABILIZATION OF AREAS DRAINING TO POND 2 HAS BEEN ACHIEVED AND ALL SEDIMENTS FROM THE POND REMOVED.
7. HYDROLOGIC AND HYDRAULIC PARAMETERS (PROJECT COMPLETION CONDITIONS):
 - A. APPROXIMATELY 10.2 ACRE-FEET IN PART A, 3.9 ACRE-FEET IN PART B OF STORAGE CAPACITY.
 - B. DRAINAGE AREA APPROXIMATELY 34 ACRES IN FINAL CONDITION (EXCLUDING AREA DRAINING TO DETENTION POND 1).
 - C. 100-YEAR, 24 HOUR STORM MAXIMUM WATER SURFACE ELEVATION: 782.1 FT-MSL
 - D. 100-YEAR, 24-HOUR STORM MINIMUM FREEBOARD PROVIDED: 1.6 FT
 - E. MAXIMUM 100-YEAR, 24 HOUR STORM INFLOW TO POND: 58 CFS INTO PART B
 - F. MAXIMUM 100-YEAR, 24 HOUR STORM OUTFLOW FROM POND: 31 CFS

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 DETENTION POND 2 DETAILS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MMM	2021-NOV
DESIGNED	GLH
PREPARED	RMS
CHECKED	LS
REVIEWED / APPROVED	GLH

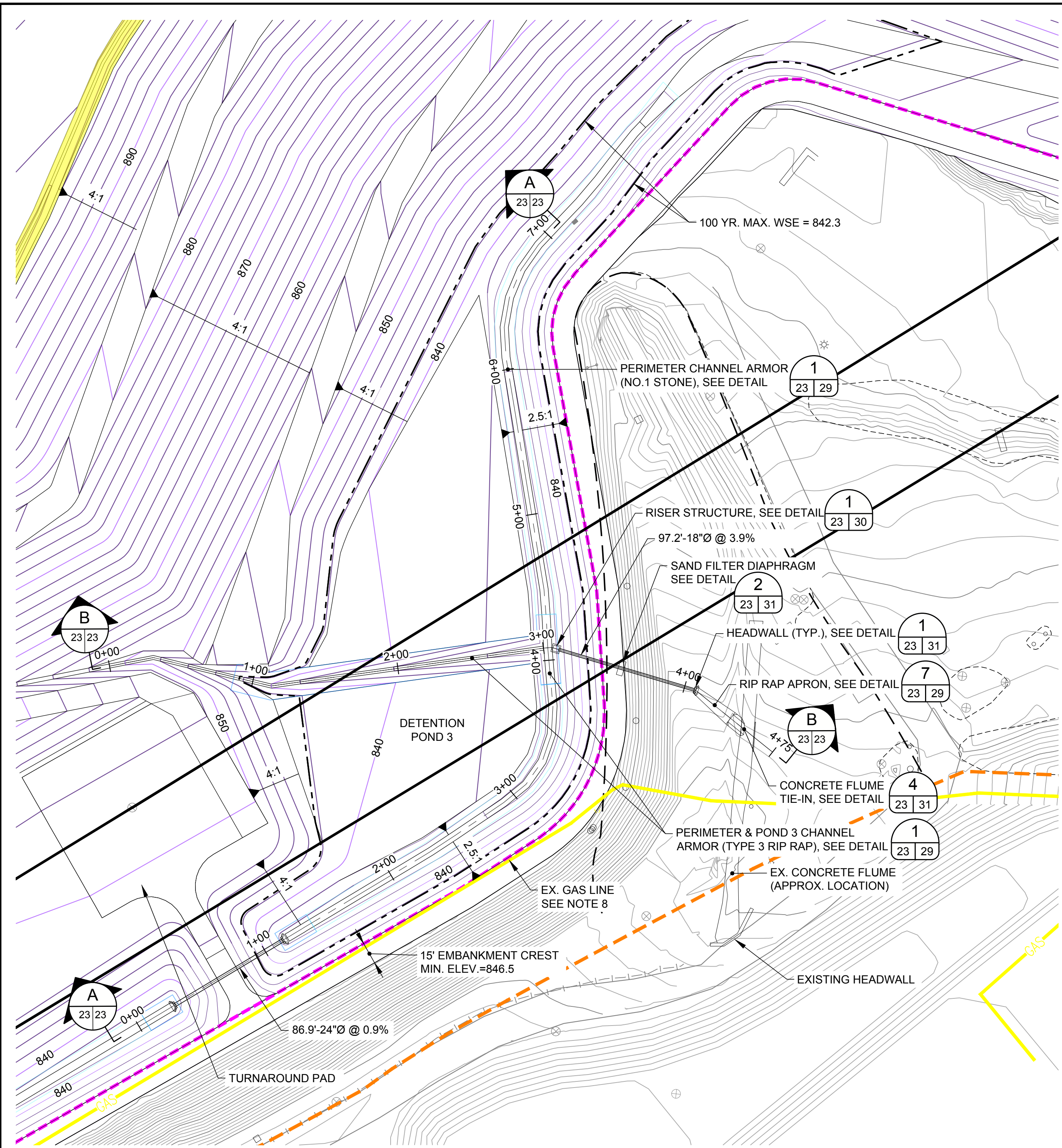
PROJECT NO.
1777449

REV.
0

SHEET
22

Path: \\atlantia\cadd\Southen Company\1777449 Plant McDonough Permitting\AP-3&4-AP-2\AP-3&4-AP-2\AP-3&4-AP-2\DETENTION POND 2-1.dwg

1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D



1 DETENTION POND 3 PLAN
23 23
0 50 100
1" = 50' FEET

LEGEND

	PRE-CLOSURE CONTOURS		HYDRO TURF OVER SUPERGRIPNET
	UNPAVED PLANT ROAD		TYPE 3 RIP RAP APRON
	EXISTING GAS LINE		NO.1 STONE OR TYPE 3 RIP RAP
	EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED		ARMORFLEX ON HYDRO TURF OVER SUPERGRIPNET
	PROPOSED CONTOURS		GRAVEL ROAD OVER CLOSURE TURF WITH EDGE CURB
	LIMITS OF CLOSURE TURF		CLOSURE TURF OVER SUPERGRIPNET
	PROPOSED PERMIT BOUNDARY AP-2, AP-3/4		CLOSURE TURF OVER MICROSPIKE

HATCH LEGEND

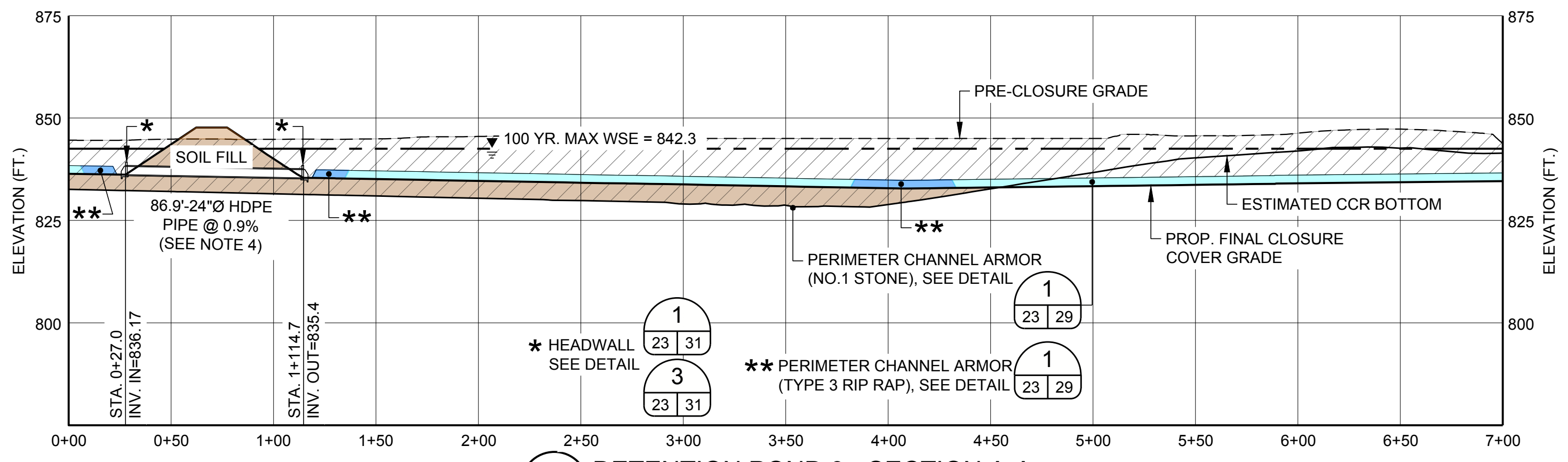
	CCR TO REMAIN
	EXISTING EMBANKMENT FILL
	CCR/SOIL TO BE REMOVED
	PROPOSED CCR FILL
	PROPOSED SOIL FILL

NOTES

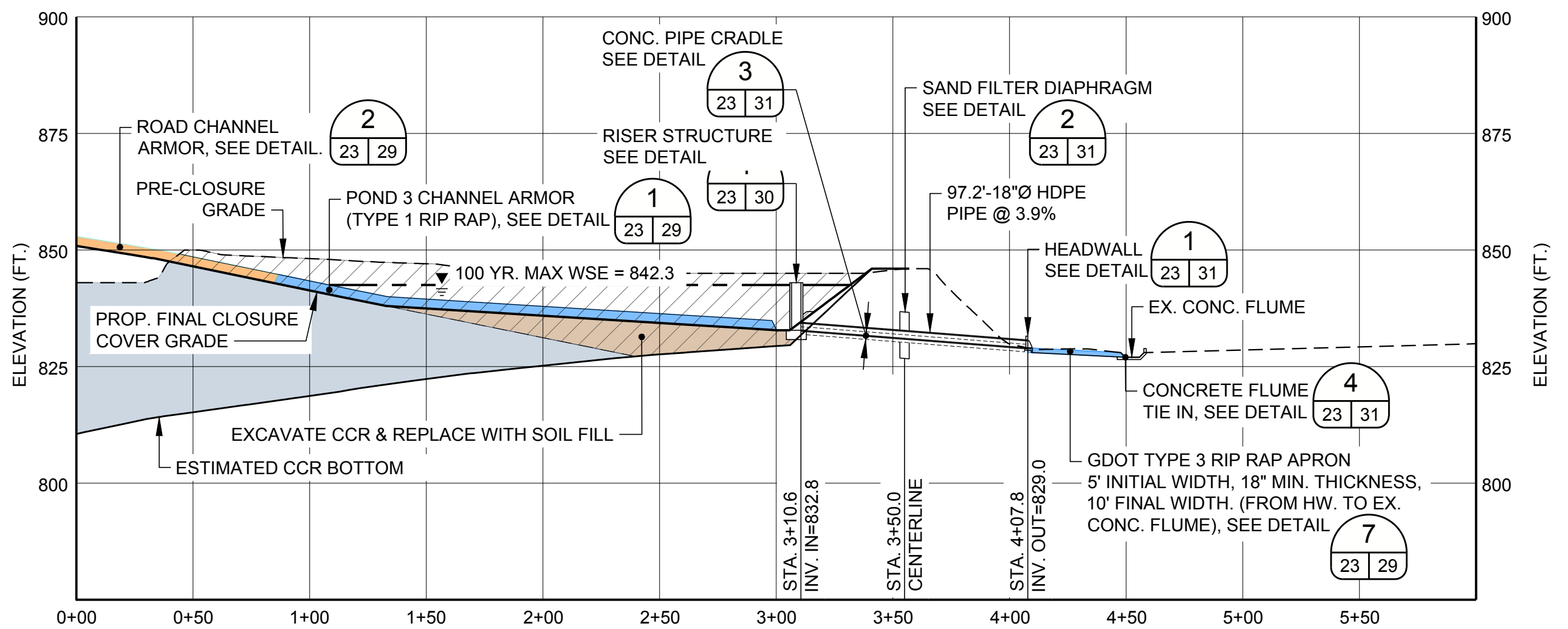
- SUPERGRIPNET TO BE AGRU 50 MIL LLDPE.
- MICROSPIKE TO BE AGRU 40 MIL (MIN.) LLDPE GEOMEMBRANE LINER.
- CLOSURE TURF TO CONTAIN SAND INFILL MINIMUM 1/2" THICKNESS UNLESS OTHERWISE INDICATED.
- CULVERT TO BE INSTALLED IN 5' MIN. RADIAL ZONE OF SOIL FILL.
- DETENTION POND 3 WILL SERVE TEMPORARILY AS SEDIMENT POND D DURING PHASES 2 THROUGH 5 OF CONSTRUCTION. SEE SHEET 13.
- OUTFLOWS FROM THE OUTLET STRUCTURE ARE NOT PERMITTED UNTIL 100% SITE STABILIZATION HAS BEEN ACHIEVED IN CONTRIBUTING AREAS AND ALL SEDIMENTS FROM THE POND REMOVED.
- HYDROLOGIC AND HYDRAULIC PARAMETERS (PROJECT COMPLETION CONDITIONS):
 - A. APPROXIMATELY 10.5 ACRE-FEET OF STORAGE CAPACITY.
 - B. DRAINAGE AREA APPROXIMATELY 20 ACRES IN FINAL CONDITION.
 - C. 100-YEAR, 24 HOUR STORM MAXIMUM WATER SURFACE ELEVATION: 842.3 FT-MSL
 - D. 100-YEAR, 24-HOUR STORM MINIMUM FREEBOARD PROVIDED: 3.7 FT
 - E. MAXIMUM 100-YEAR, 24 HOUR STORM INFLOW TO POND: 122 CFS
 - F. MAXIMUM 100-YEAR, 24 HOUR STORM OUTFLOW FROM POND: 9 CFS
- 24 INCH DIAMETER NATURAL GAS FEED FOR POWER PLANT RUNS WITHIN SOUTHERN PORTION OF EXISTING ASH POND 3 PERIMETER BERM. NO WORK WITHIN 50 FEET OF THIS LINE WITHOUT NOTIFICATION OF AND APPROVAL OF OWNER.

REFERENCES

- THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO. INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
- REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.



A DETENTION POND 3 - SECTION A-A
23 23
0 50 100
1" = 50' FEET
2X VERTICAL EXAGGERATION



B DETENTION POND 3 - SECTION B-B
23 23
0 50 100
1" = 50' FEET
2X VERTICAL EXAGGERATION

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

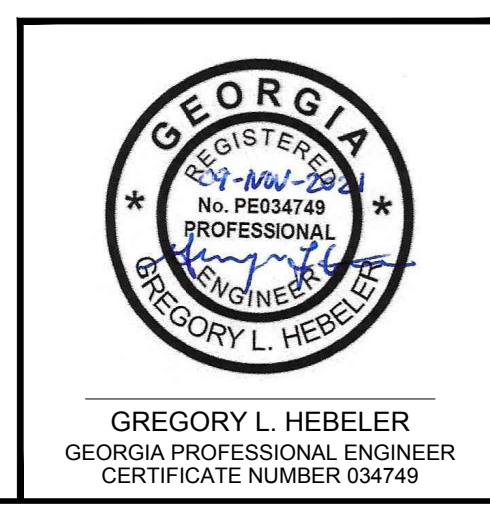
CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
AP - 3/4 DETENTION POND 3 DETAILS

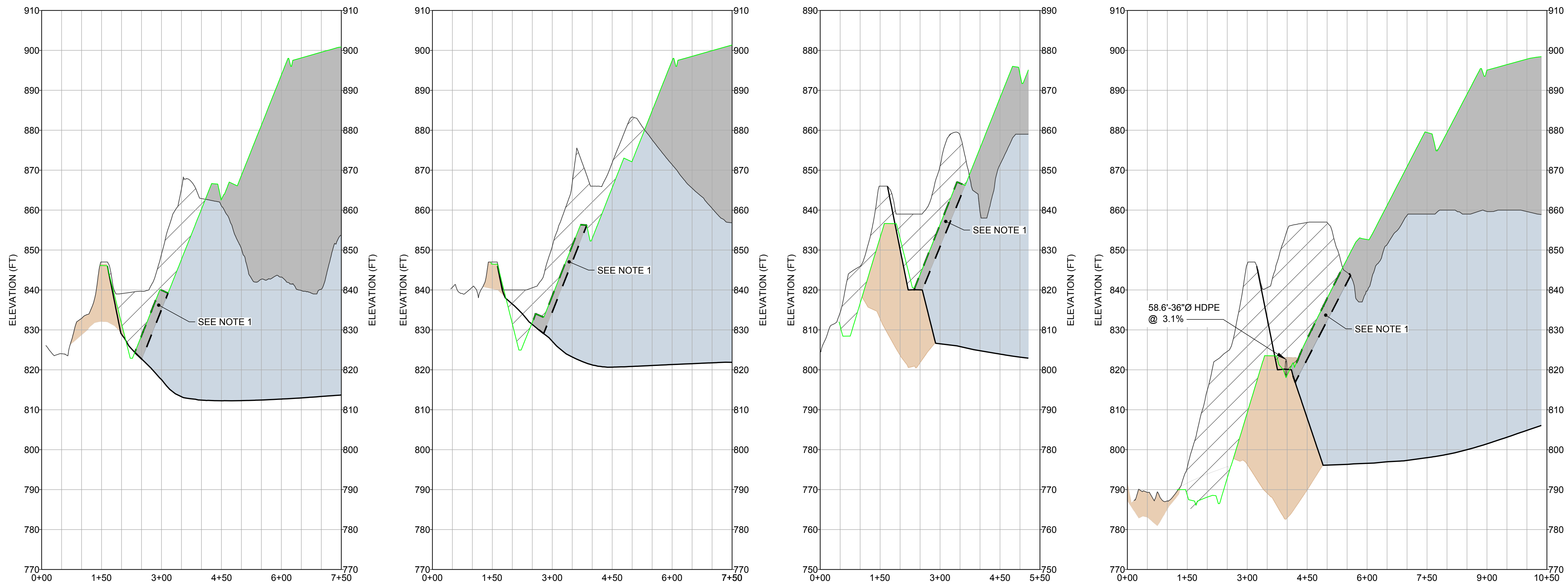
CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH



PROJECT NO. 1777449
REV. 0
SHEET 23

Path: \\atlantia\cadd\Southern Company\1777449\Plant McDonough\Permitting\AP-3/4-AP-2\AP-3/4-384P\PRODUCTION\1 File Name: 1777449 21-53 DETENTION POND3 1-3.dwg

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



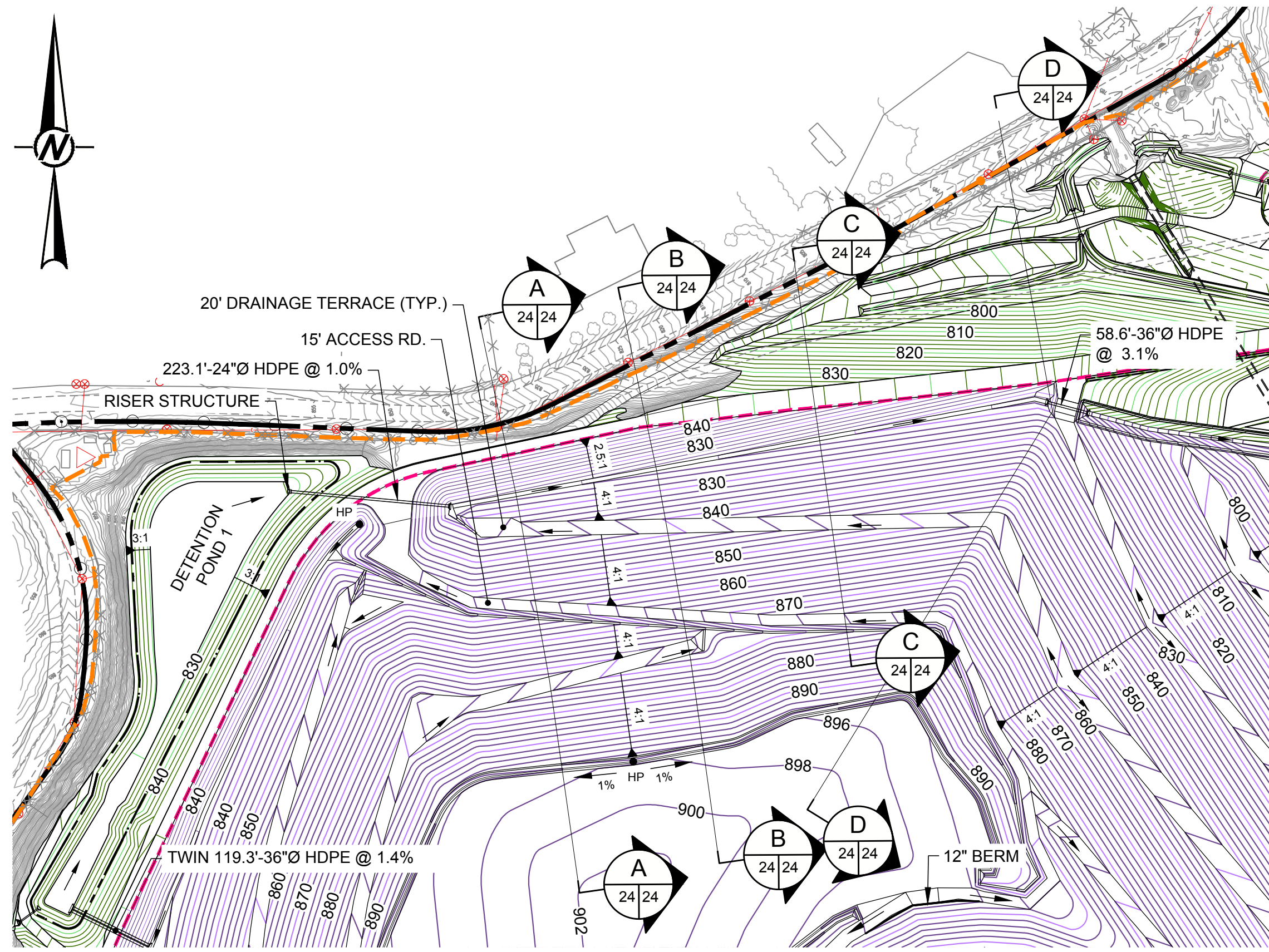
A SECTION A-A
24 24

B SECTION B-B
24 24

C SECTION C-C
24 24

D SECTION D-D
24 24

- LEGEND**
- PRE-CLOSURE CONTOURS
 - PROPERTY BOUNDARY MARKERS/LIMITS
 - PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
 - REVISED FINAL CLOSURE CONTOURS
 - CLEAN CLOSURE CONTOURS
- LINE WORK LEGEND**
- PRE-CLOSURE GRADES
 - CLOSURE COVER GRADES
 - ESTIMATED BOTTOM OF CCR
- HATCH LEGEND**
- CCR TO REMAIN
 - EXISTING EMBANKMENT FILL
 - CCR/SOIL TO BE REMOVED
 - PROPOSED CCR FILL
 - PROPOSED SOIL FILL



1 NORTH PERIMETER CHANNEL PLAN
24 24

NOTES

1. OVER EXCAVATE AND RECOMPACT ASH FILL ALONG NORTHERN PERIMETER CHANNEL A MINIMUM OF 20 FEET HORIZONTALLY TO BOTTOM OF ASH AND OR A MINIMUM OF FIVE FEET BELOW FINAL CHANNEL BOTTOM IF STILL IN ASH.
2. ALL TEMPORARY AND PERMANENT EXCAVATIONS BELOW ELEVATION 830 FEET (THE NOMINAL PRE CONSTRUCTION WATER LEVEL WITHIN ASH PONDS 3 AND 4) REQUIRE SUBMITTAL OF CONFIRMATION WATER LEVEL TESTING INDICATING SUFFICIENT DEWATERING TO MAINTAIN STABILITY PRIOR TO EXCAVATION. THE FOLLOWING CRITERIA APPLY TO ALL ASH EXCAVATIONS:
 - A. TEMPORARY ASH EXCAVATION SLOPES SHALL BE 4H:1V OR SHALLOWER UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - B. WATER LEVELS WITHIN THE ASH BEHIND CUT SLOPES SHALL BE MAINTAINED A MINIMUM OF 50 HORIZONTAL FEET BEHIND (12.5 VERTICAL FEET BELOW) ALL PORTIONS OF ASH EXCAVATION CUT SLOPES AT ALL TIMES. IT IS ANTICIPATED THAT MEETING THIS CRITERIA WILL REQUIRE ACTIVE DEWATERING AND MONITORING.
 - C. ASH EXCAVATIONS BELOW ELEVATION 800 FEET SHALL ADDITIONALLY REQUIRE WATER LEVELS WITHIN 400 FEET OF THE TOE OF THE EXCAVATION SLOPE TO BE LOWERED TO AT LEAST ELEVATION 810 FEET.
 - D. SEE SHEET 27 FOR MINIMUM WATER LEVEL MONITORING REQUIREMENTS, DURING CONSTRUCTION.

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 NORTH PERIMETER CHANNEL DETAILS

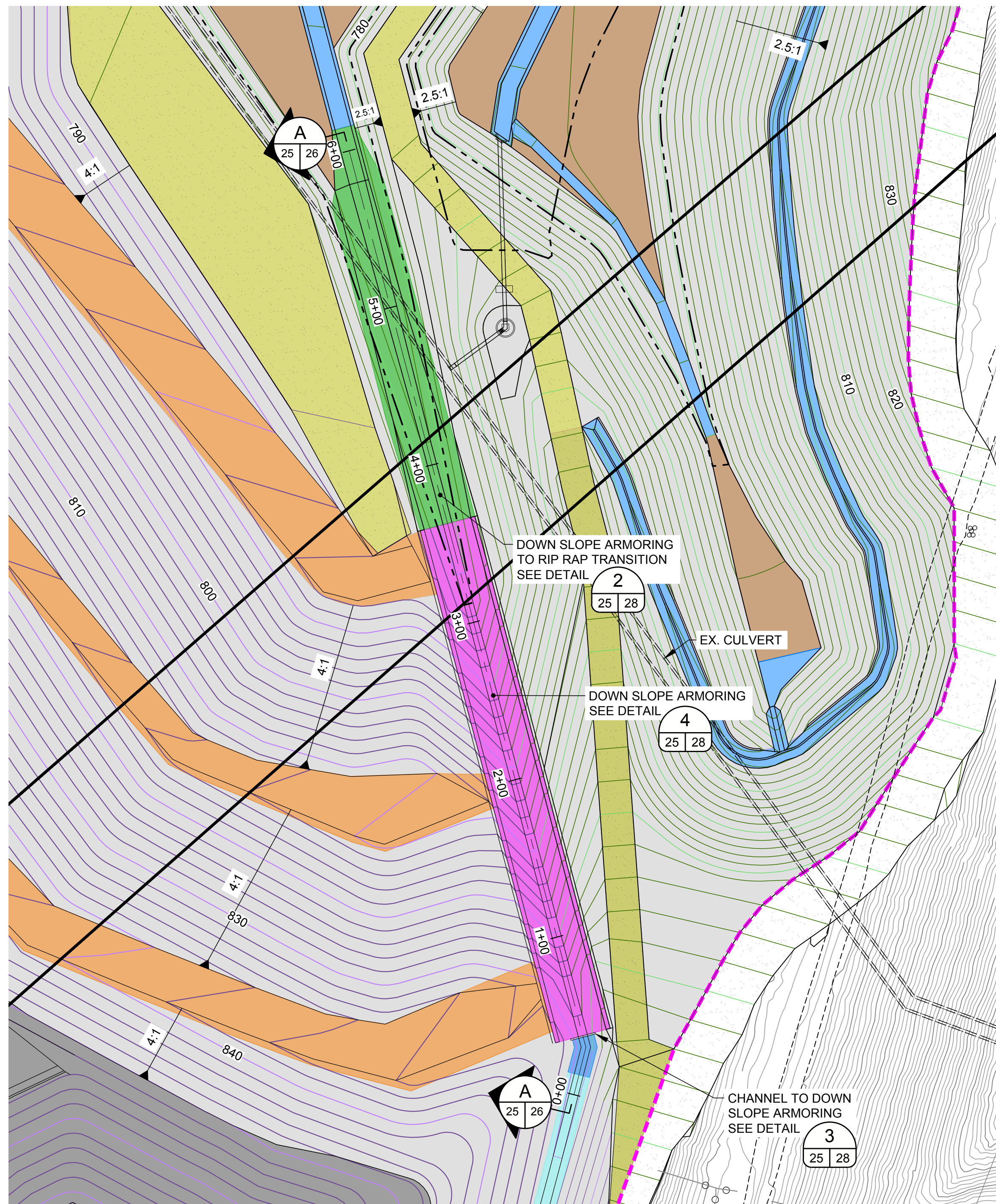
CONSULTANT	DATE	BY
	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH



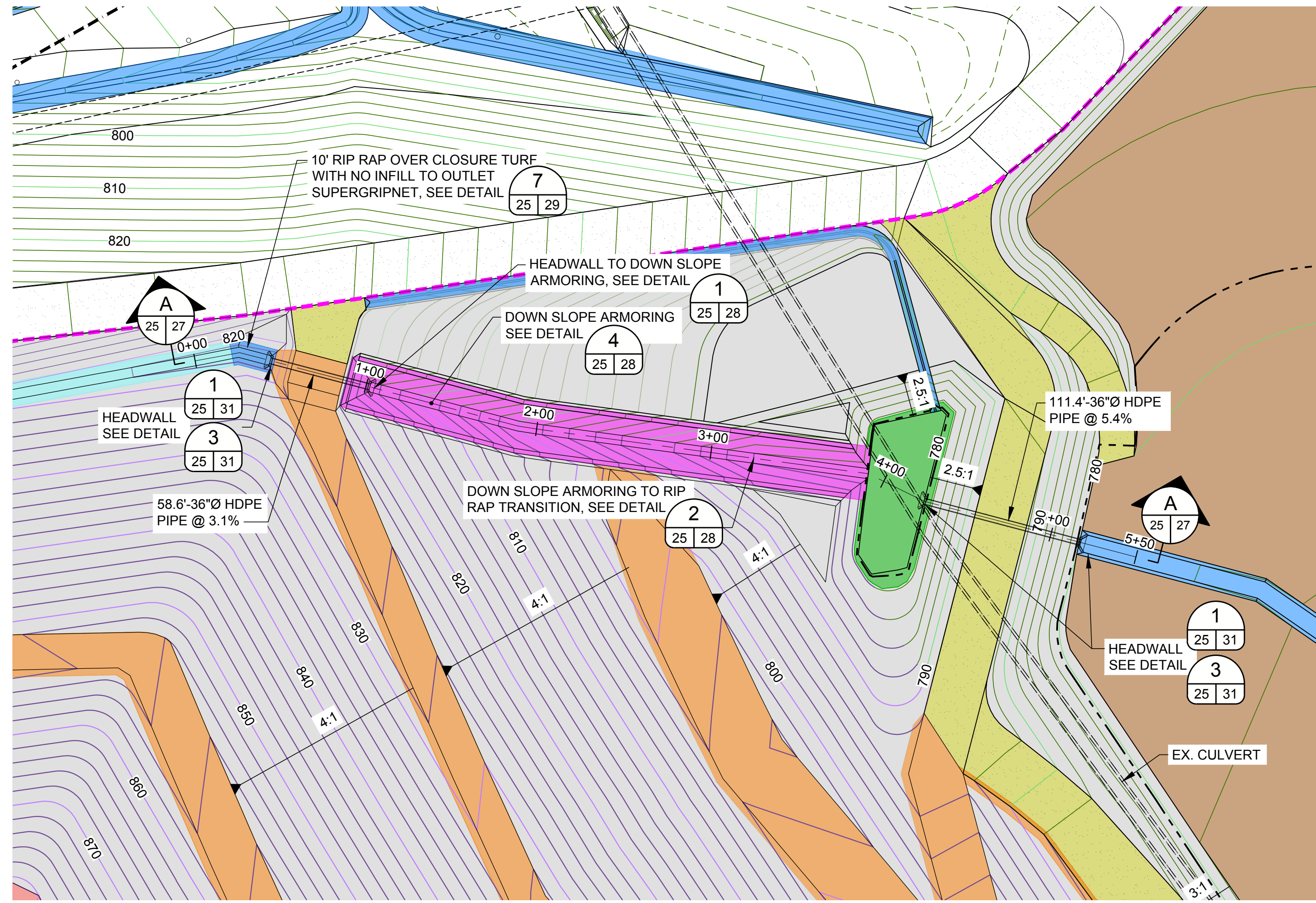
PROJECT NO. **1777449** REV. **0** SHEET **24**

Path: \\atlantia\cadd\Southern Company\1777449 Plant McDonough\Permitting\AP-3&4-AP-2\AP-3&4\PRODUCTION\1 File Name: 1777449 24 NORTH PERIMETER CHANNEL PLAN-SECTIONS.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIS 1 in



1
25
SOUTH DOWNSLOPE CHANNEL PLAN
(PERIMETER CHANNEL P5)



2
25
NORTH DOWNSLOPE CHANNEL PLAN
(PERIMETER CHANNEL P2)

LEGEND

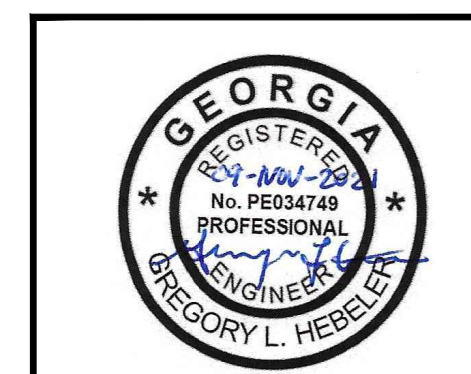
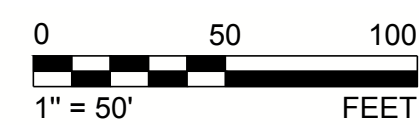
	PRE-CLOSURE CONTOURS		HYDRO TURF
	UNPAVED PLANT ROAD		TYPE 3 RIP RAP
	EXISTING GAS LINE		NO. 1 STONE OR TYPE 3 RIP RAP
	EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED		ARMORFLEX ON CLOSURE TURF
	PROPOSED CONTOURS		TYPE 1 RIP RAP
	LIMITS OF CLOSURE TURF		CLOSURE TURF OVER SUPERGRIPNET
			CLOSURE TURF OVER MICROSPIKE
			NO. 4 STONE BALLAST
			GRAVEL ROAD OVER CLOSURE TURF WITH EDGE CURB

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
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NOTES

1. SUPERGRIPNET TO BE AGRU 50 MIL LLDPE OR AGRU 50 MIL LLDPE MICRODRAIN.
2. MICROSPIKE TO BE AGRU 40 MIL LLDPE GEOMEMBRANE LINER.
3. CLOSURE TURF TO CONTAIN SAND INFILL MINIMUM 1/2" THICKNESS UNLESS OTHERWISE INDICATED.
4. SEE SHEETS 28 AND 29 FOR ARMORING AND CLOSURE COVER DETAILS.



GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE
TITLE
AP - 3/4 NORTH & SOUTH DOWNSLOPE CHANNEL PLANS

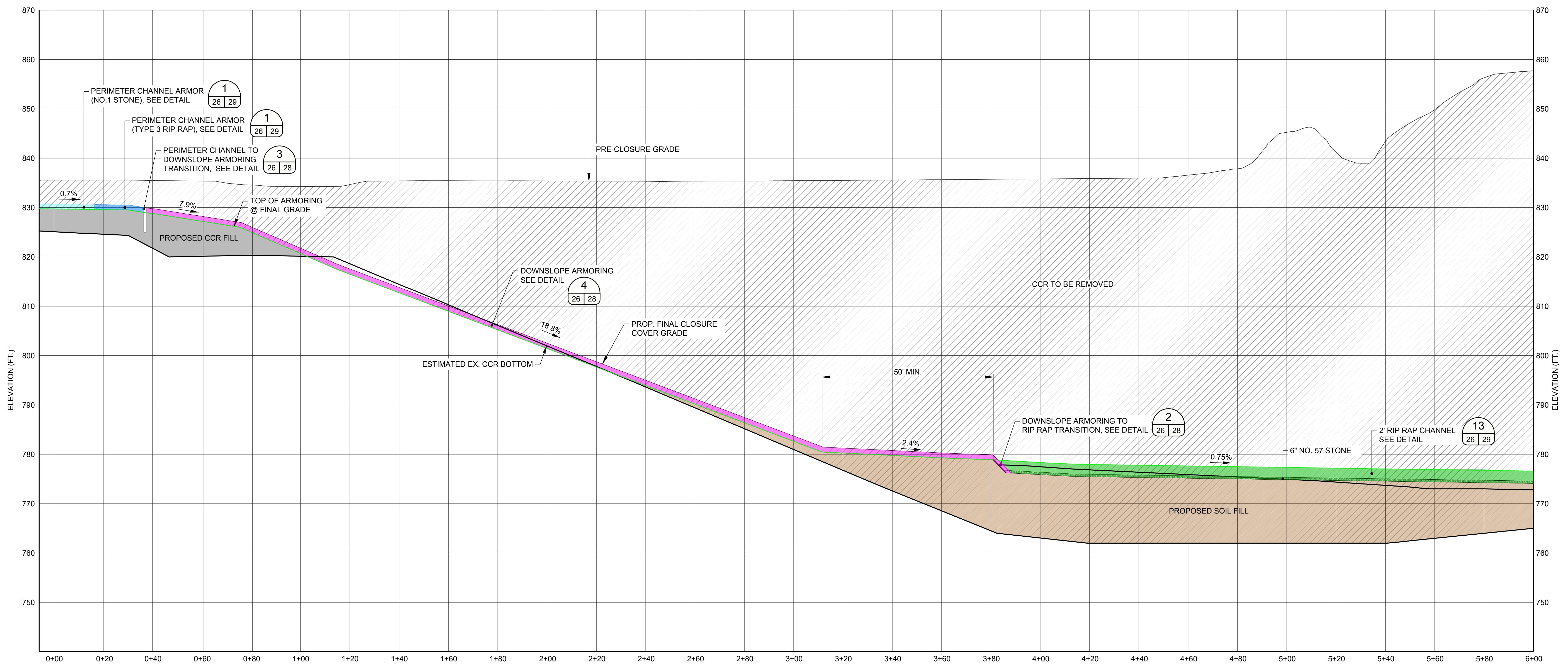
CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
GOLDER MEMBER OF WSP	PREPARED	AVR
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO.
1777449

REV.
0

SHEET
25

Path: \\atlantafacstaff\Southern Company\1777449\25-27 Downslope Channels Plans & Profiles.dwg



**SOUTH DOWNSLOPE CHANNEL PROFILE
(PERIMETER CHANNEL P5)**

A
26 25



HATCH LEGEND

- CCR TO REMAIN
- EXISTING EMBANKMENT FILL
- CCR/SOIL TO BE REMOVED
- PROPOSED CCR FILL
- PROPOSED SOIL FILL
- ARMORFLEX ON CLOSURE TURF
- TYPE I RIP RAP

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012.
GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.

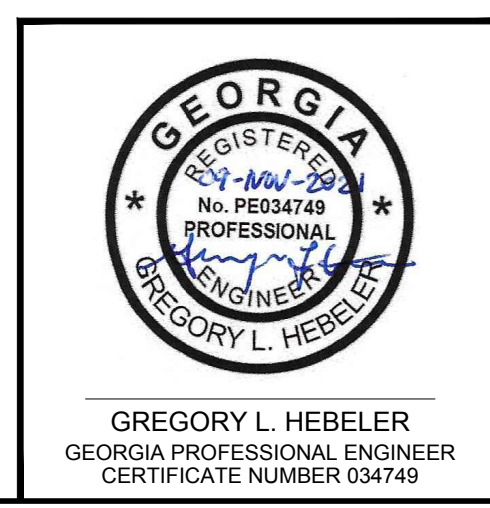
FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION

CLIENT
GEORGIA POWER COMPANY



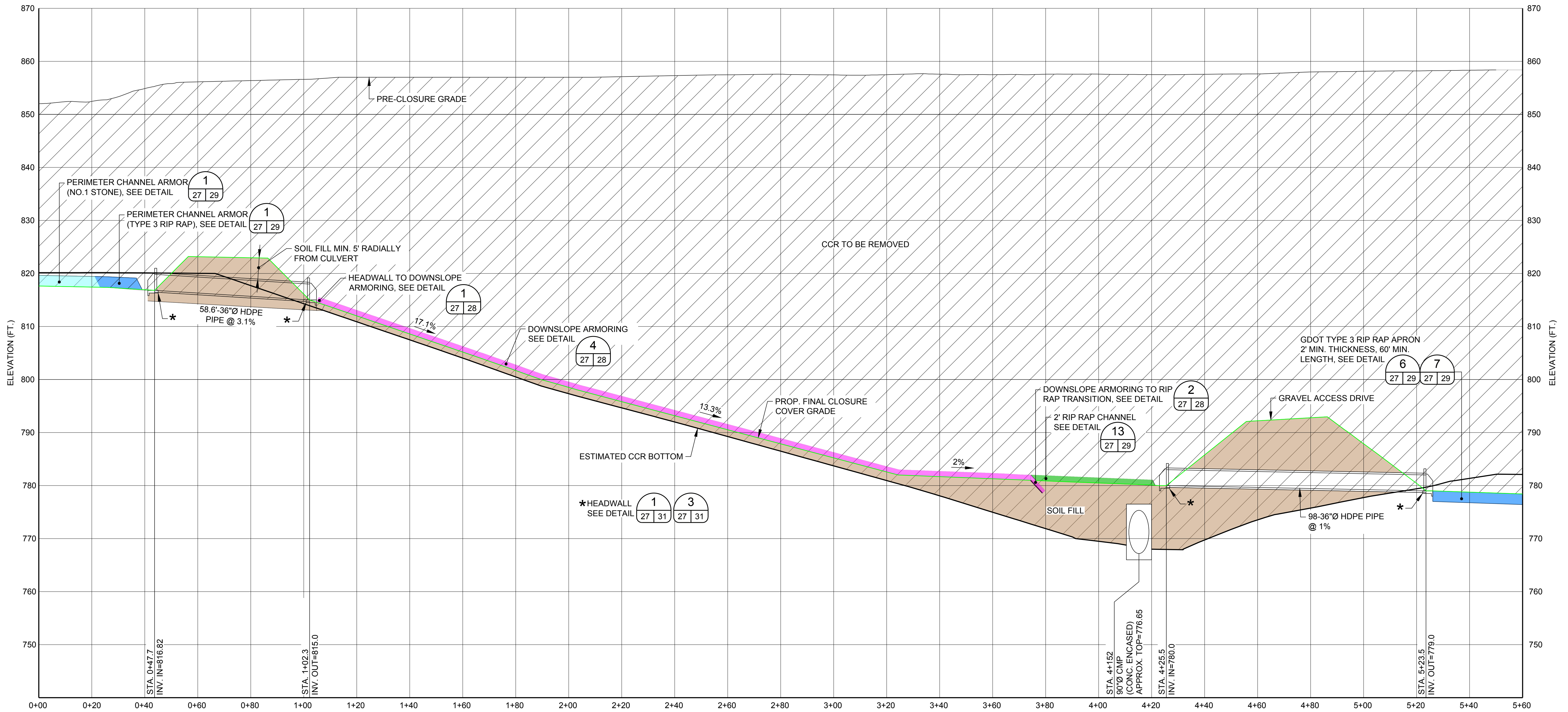
PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP - 3/4 SOUTH DOWNSLOPE CHANNEL PROFILE



CONSULTANT		DATE	
GOLDER MEMBER OF WSP	DESIGNED	GLH	2021-NOV
	PREPARED	AVR	
	CHECKED	LS	
	REVIEWED / APPROVED	GLH	
	PROJECT NO. 1777449		REV. 0

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/D

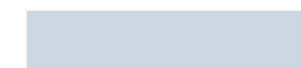










NORTH DOWNSLOPE CHANNEL PROFILE
(PERIMETER CHANNEL P2)

A
27 25



HATCH LEGEND

-  CCR TO REMAIN
-  EXISTING EMBANKMENT FILL
-  CCR/SOIL TO BE REMOVED
-  PROPOSED CCR FILL
-  PROPOSED SOIL FILL
-  ARMORFLEX ON CLOSURE TURF
-  TYPE I RIP RAP
-  TYPE 3 RIP RAP APRON
-  NO.1 STONE OR TYPE 3 RIP RAP

REFERENCES

1. THE PRE-CLOSURE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
2. REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016 - LAND ENG. PROJECT # 20160020.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
AP - 3/4 NORTH DOWNSLOPE CHANNEL PROFILE

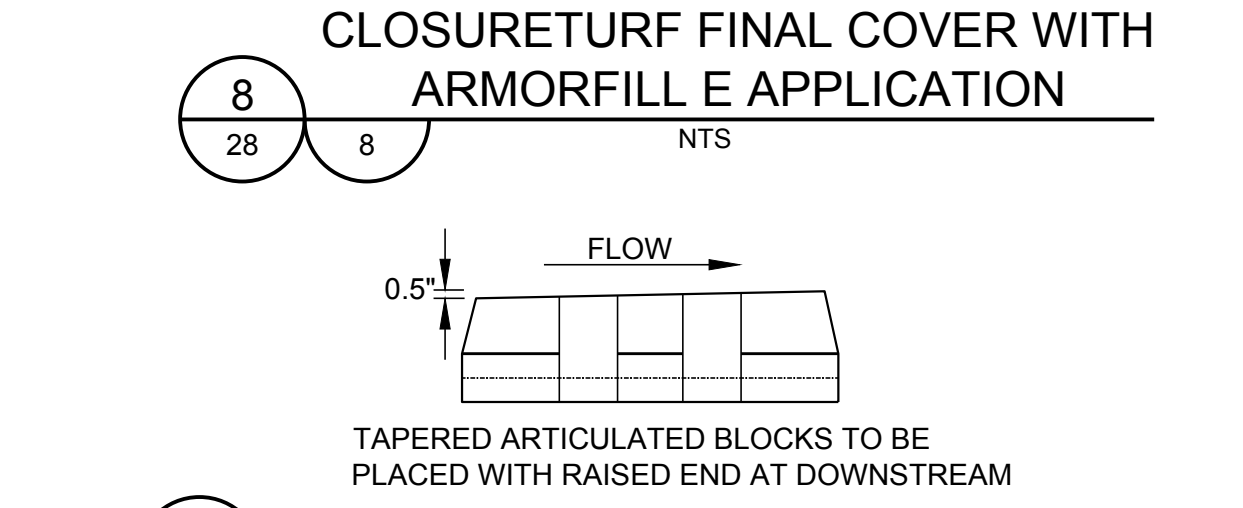
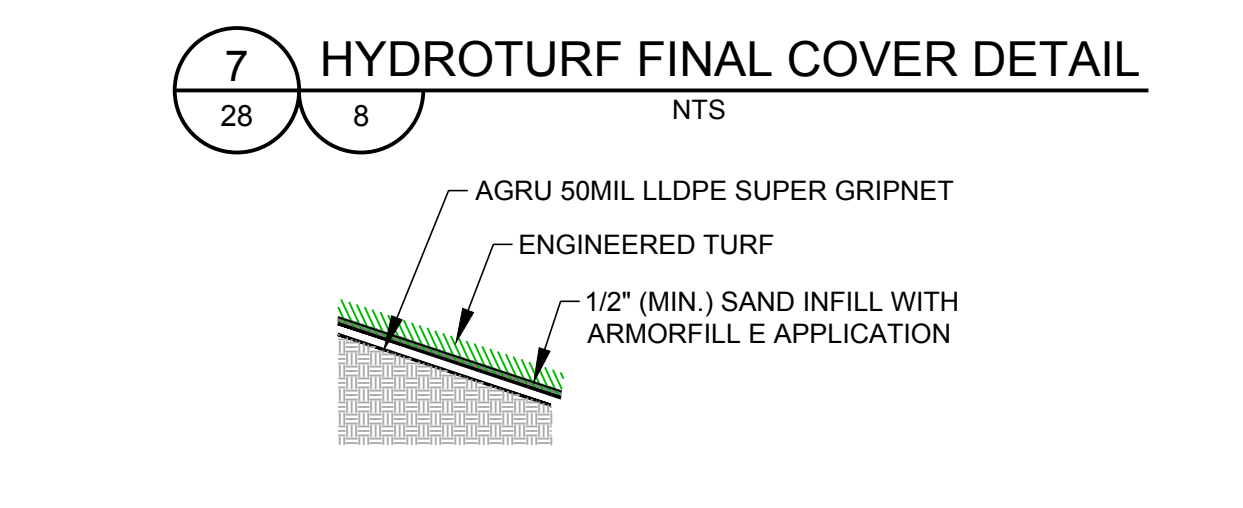
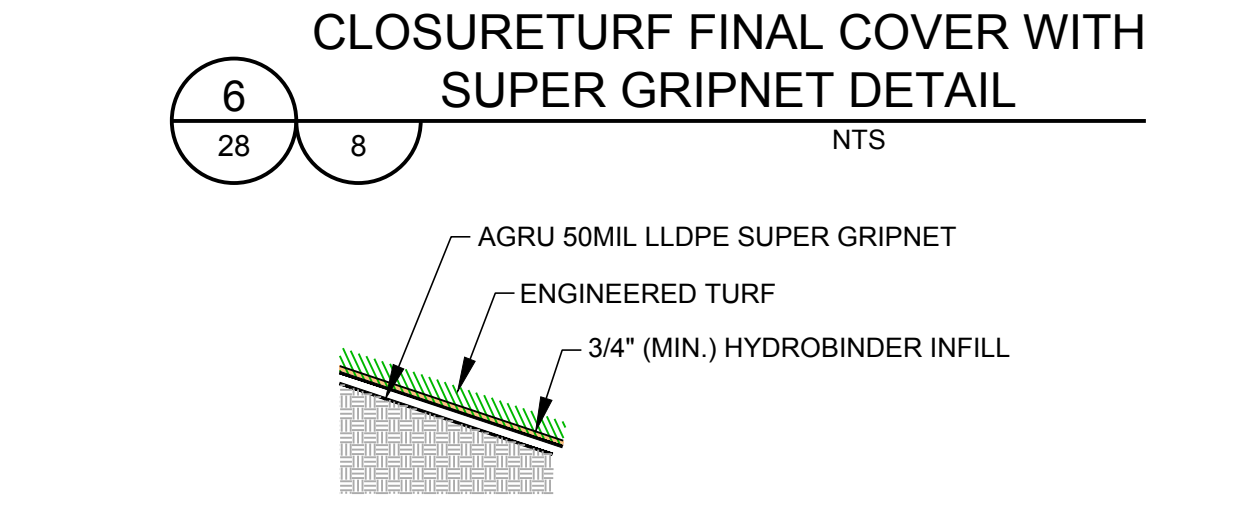
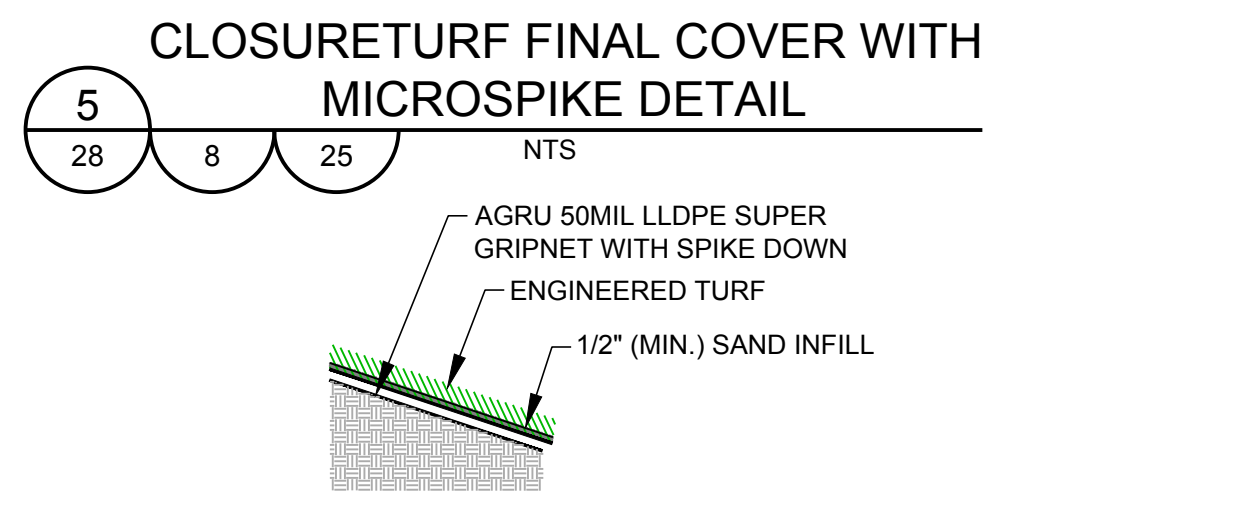
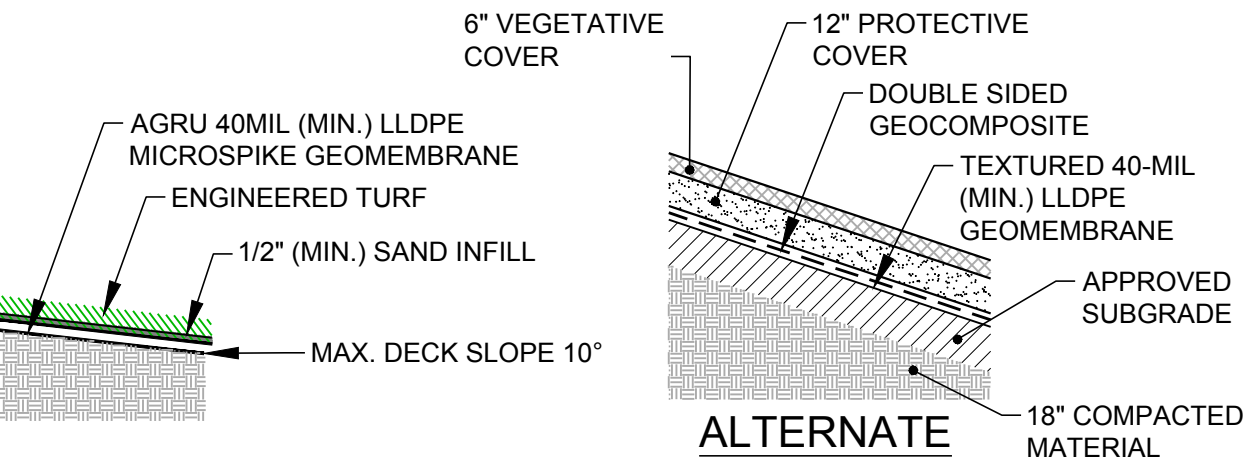
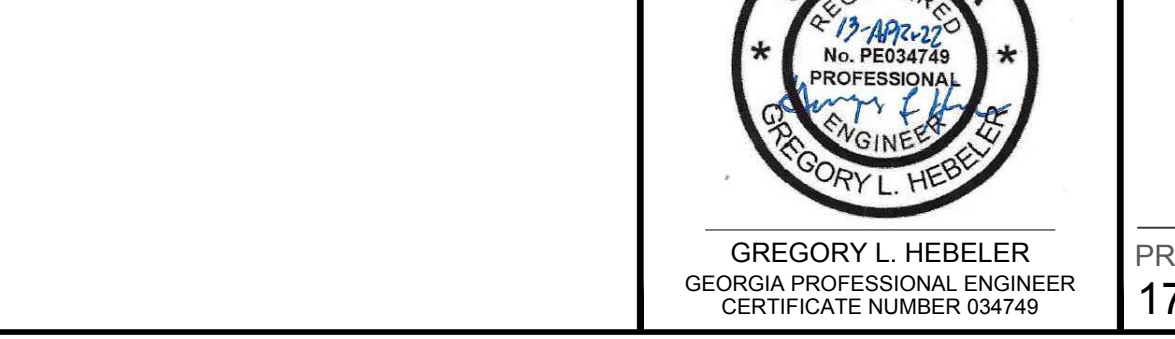
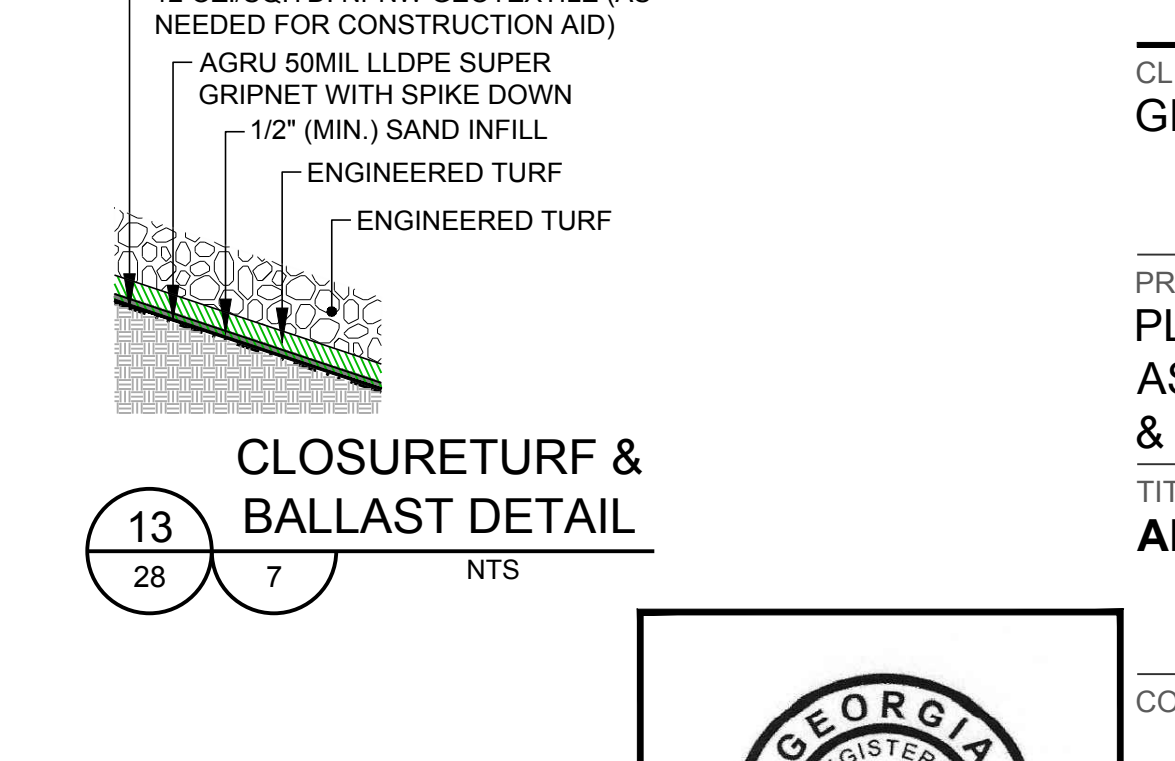
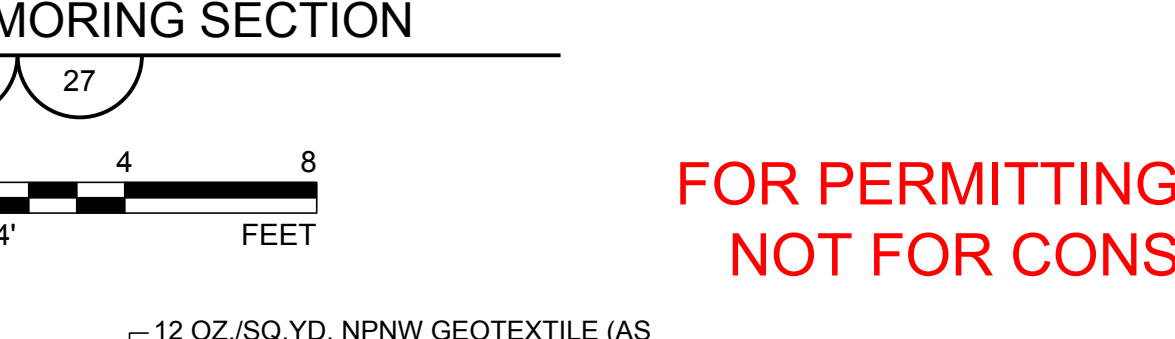
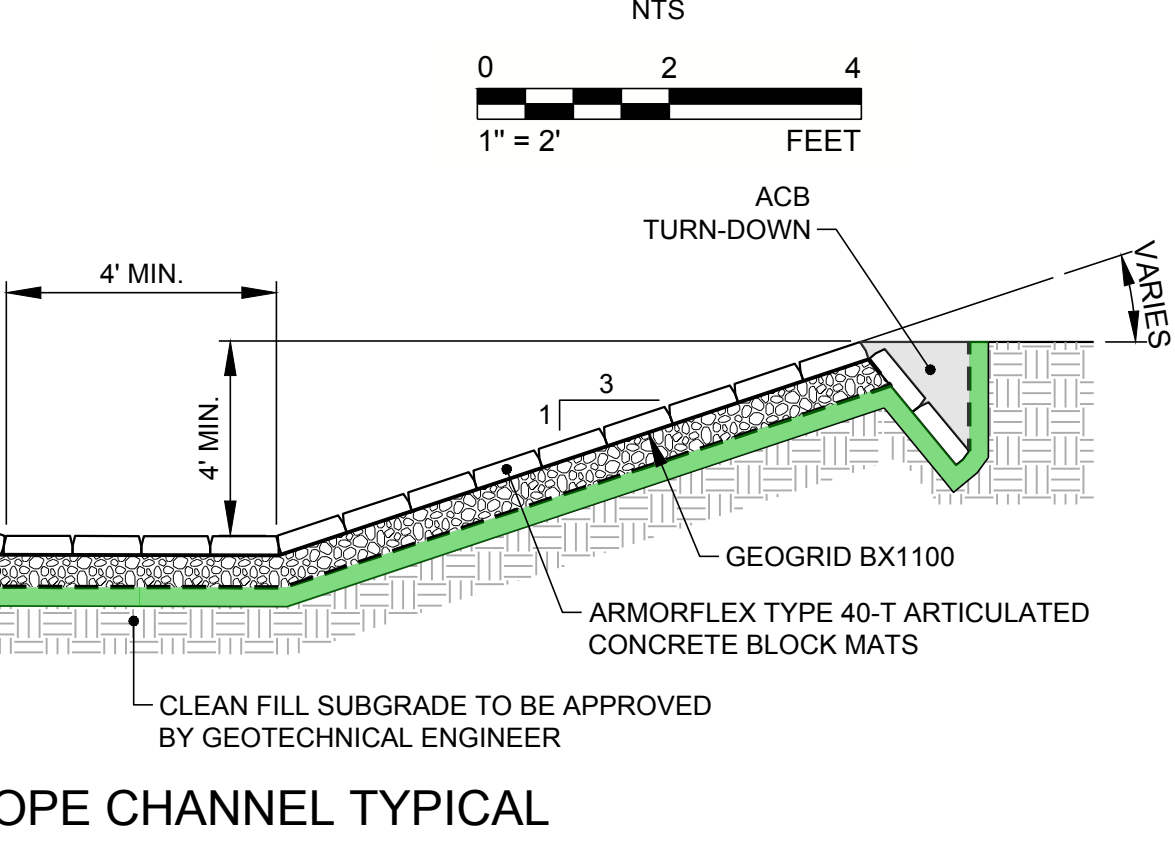
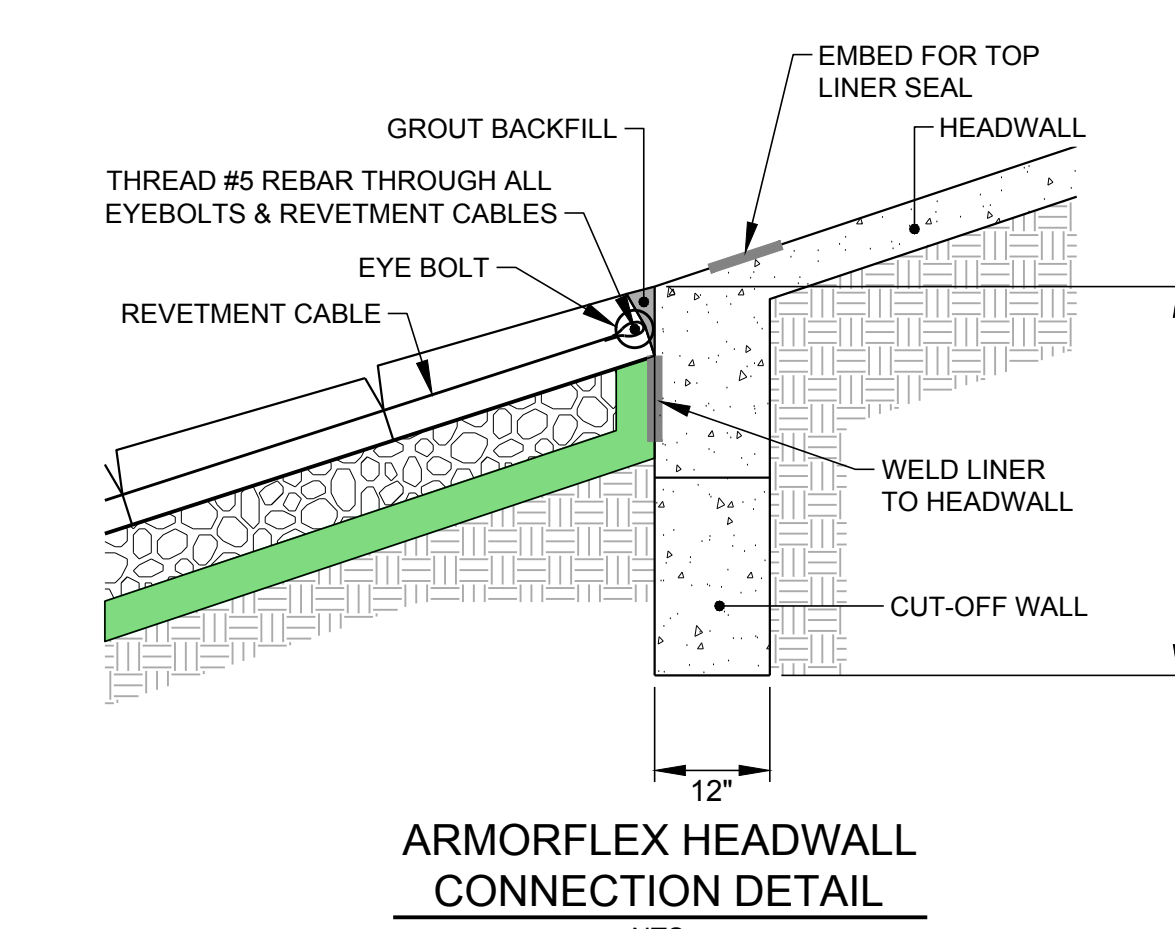
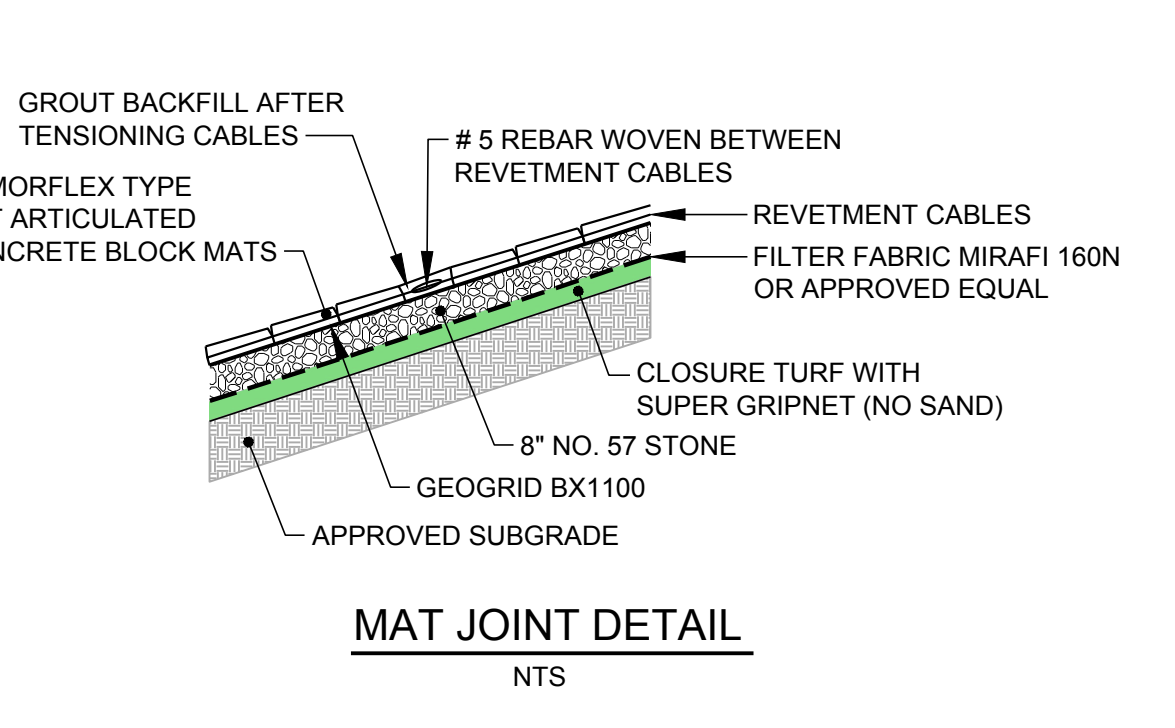
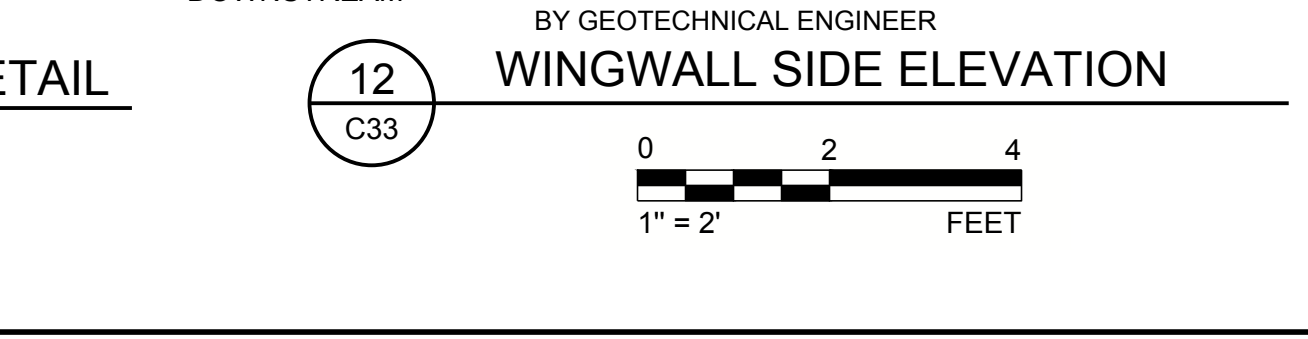
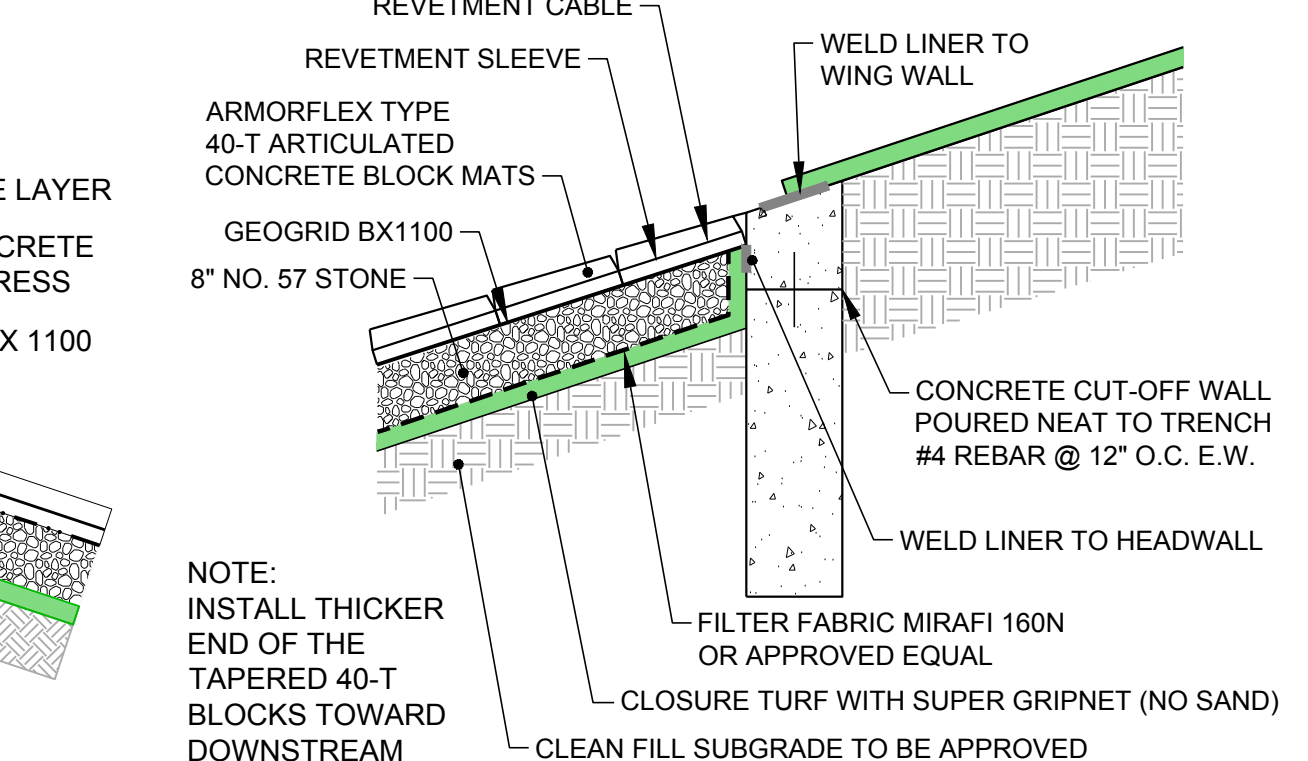
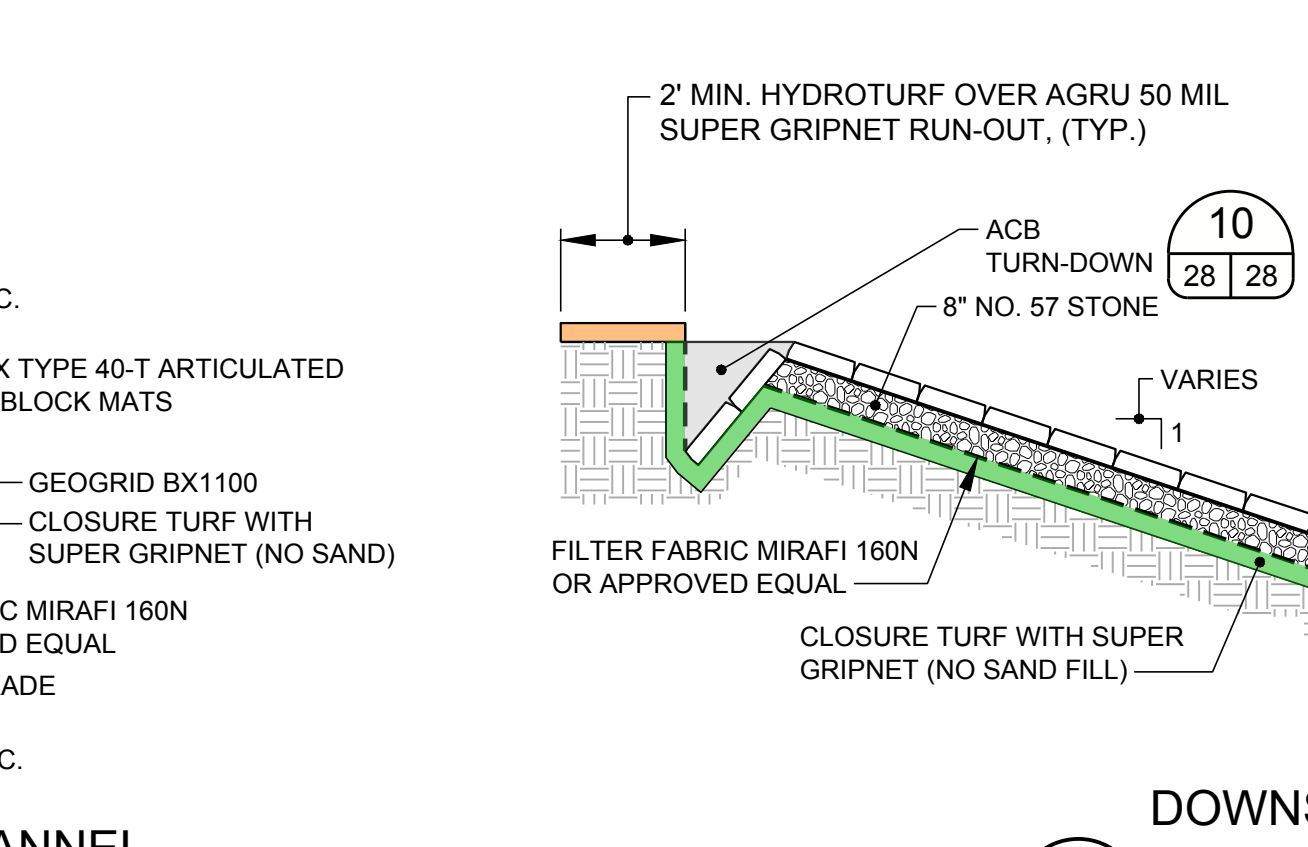
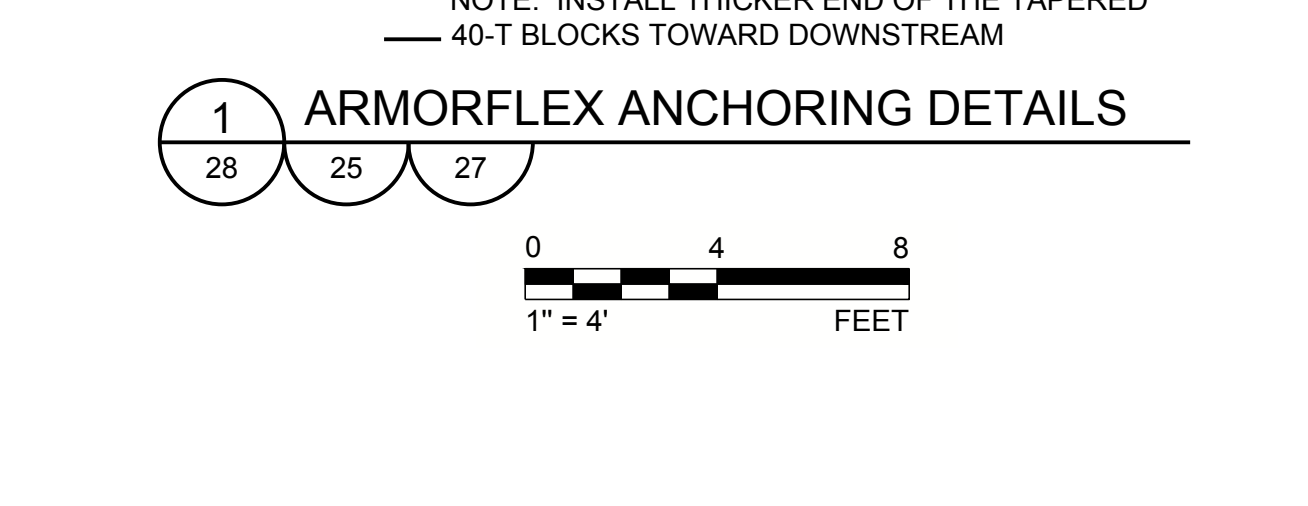
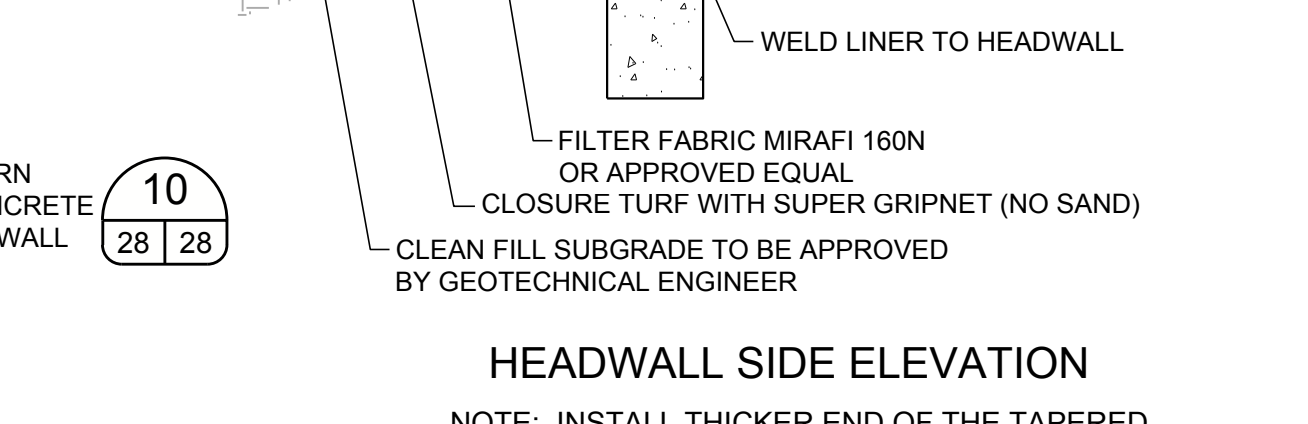
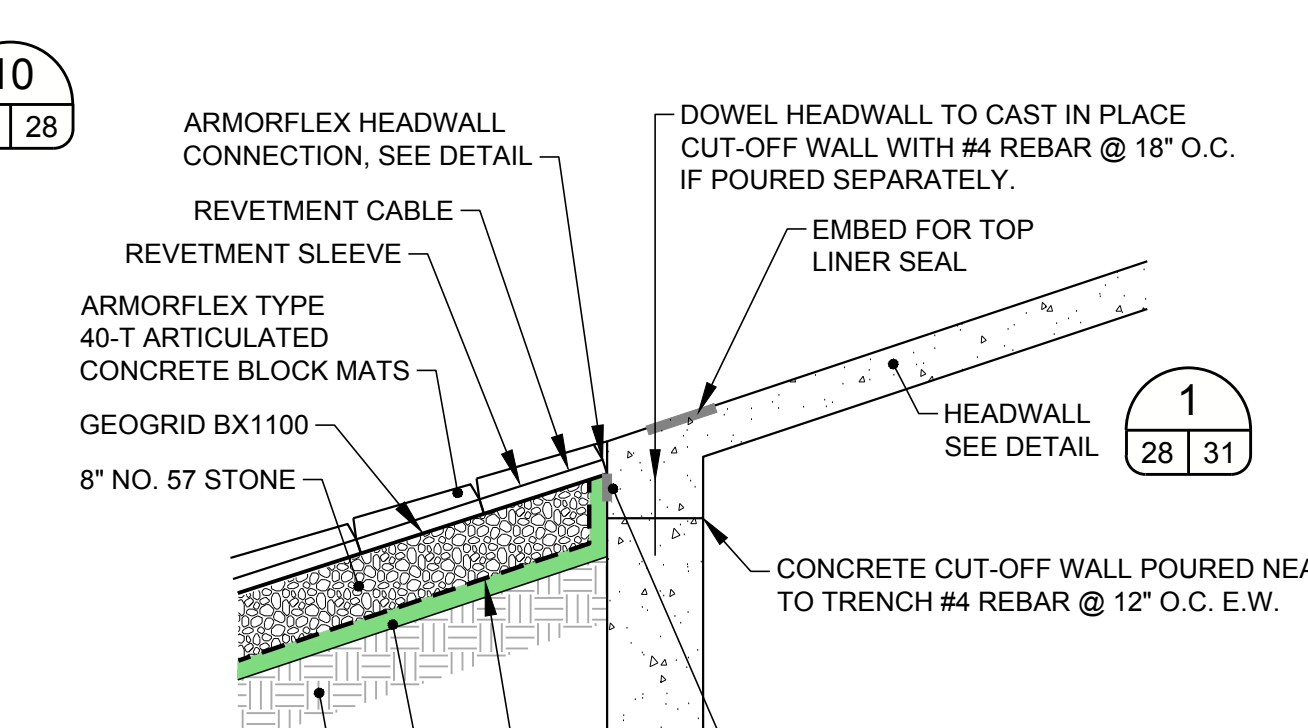
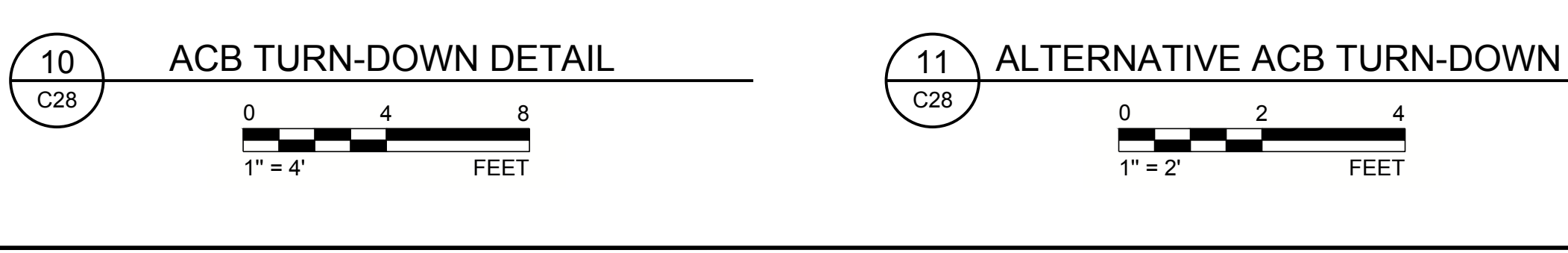
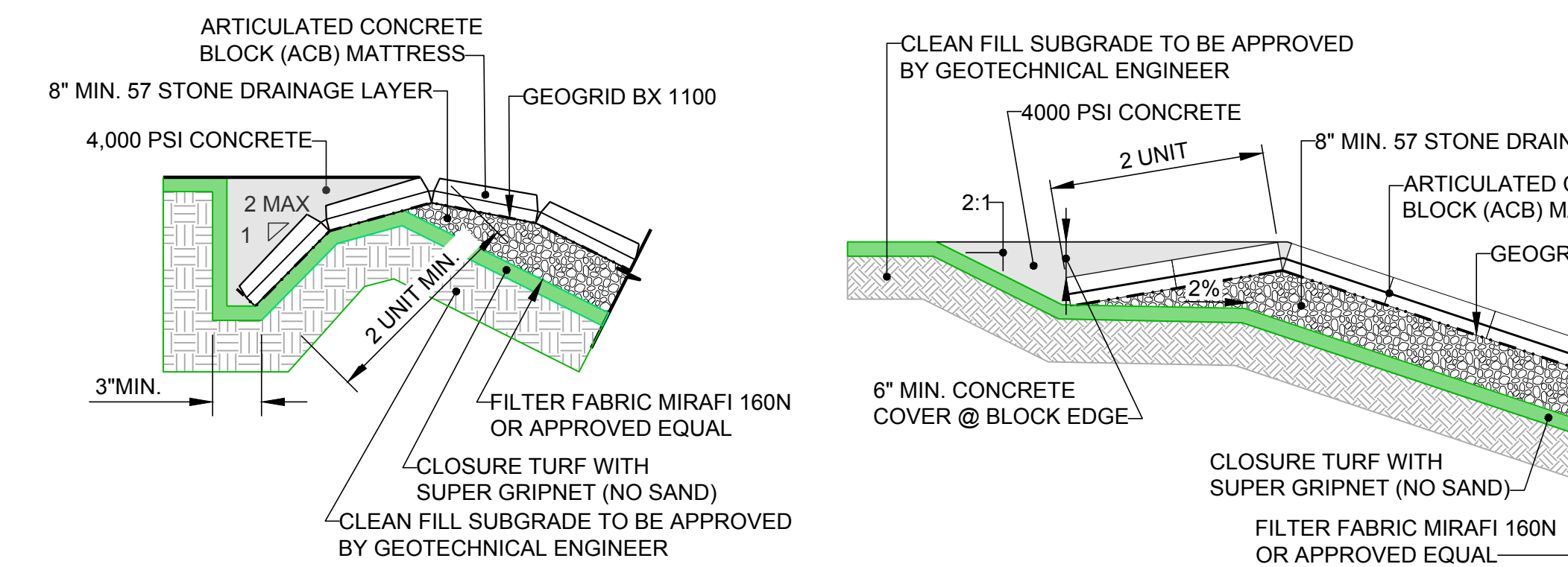
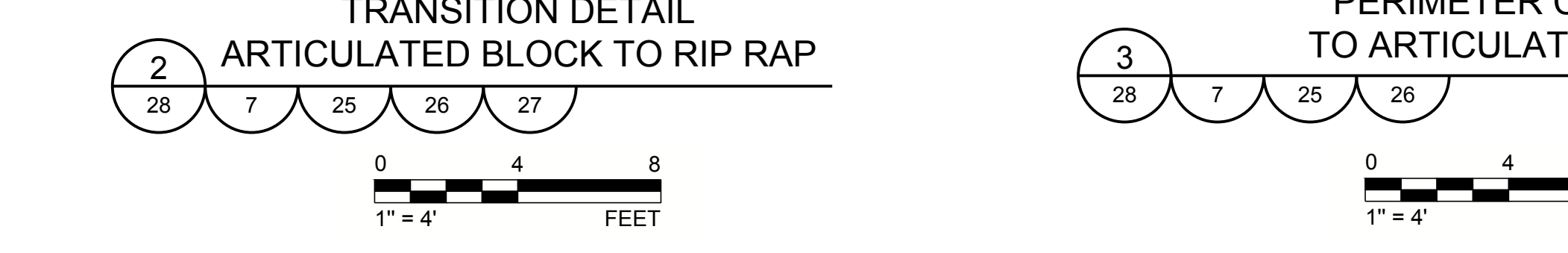
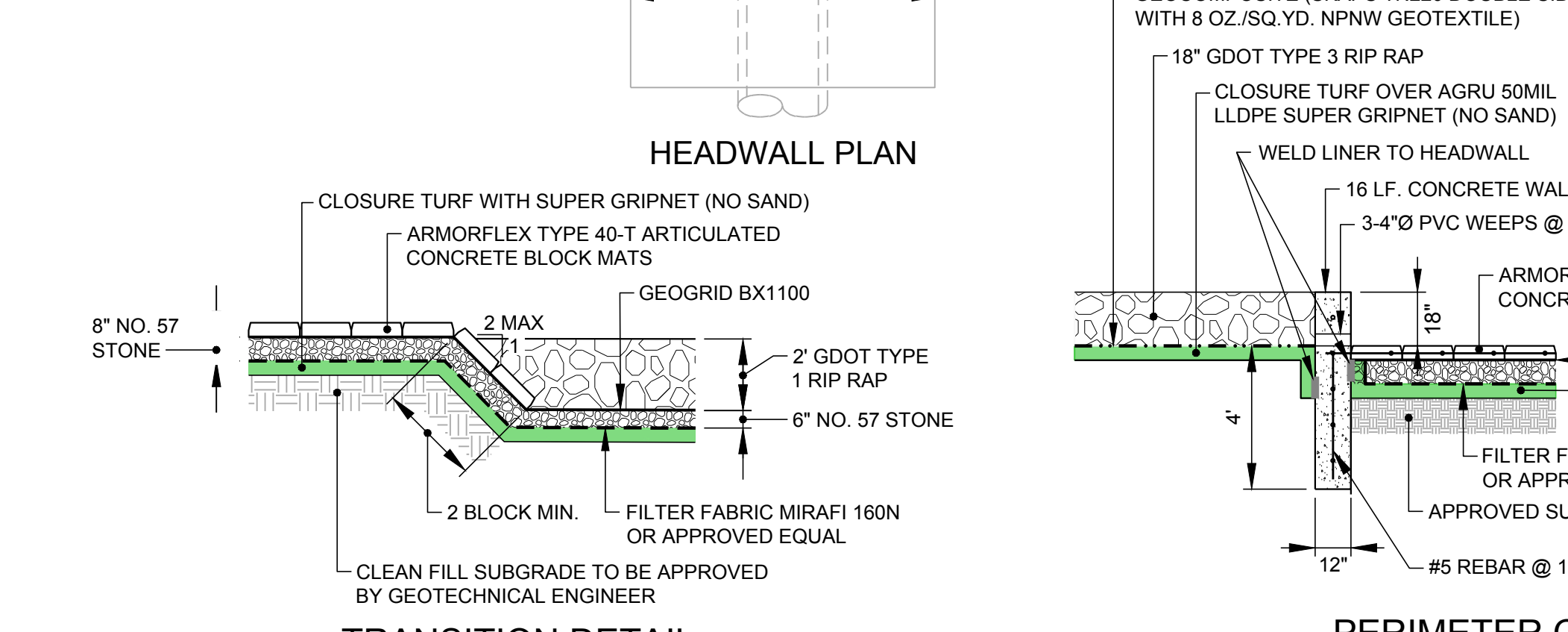
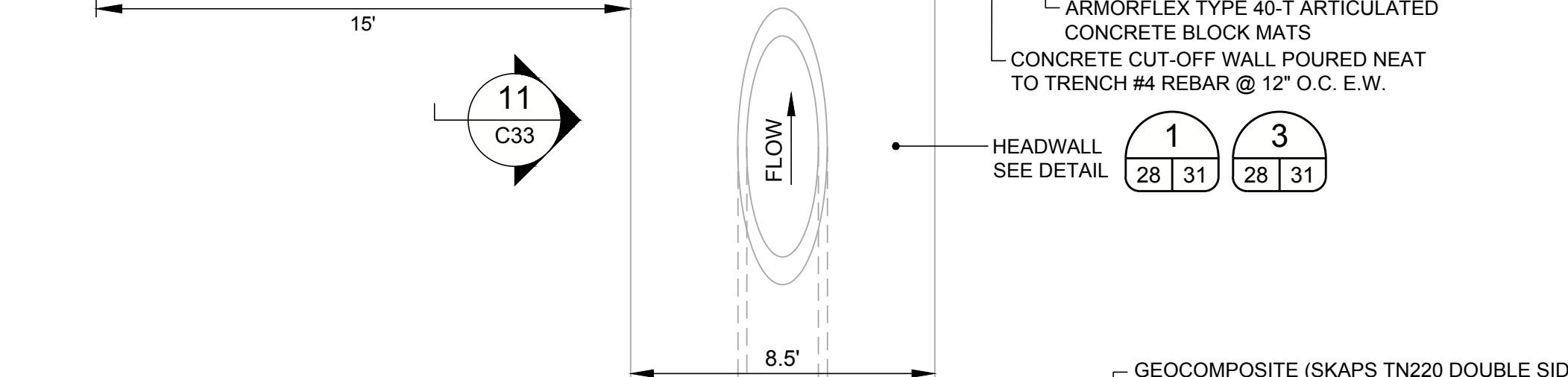
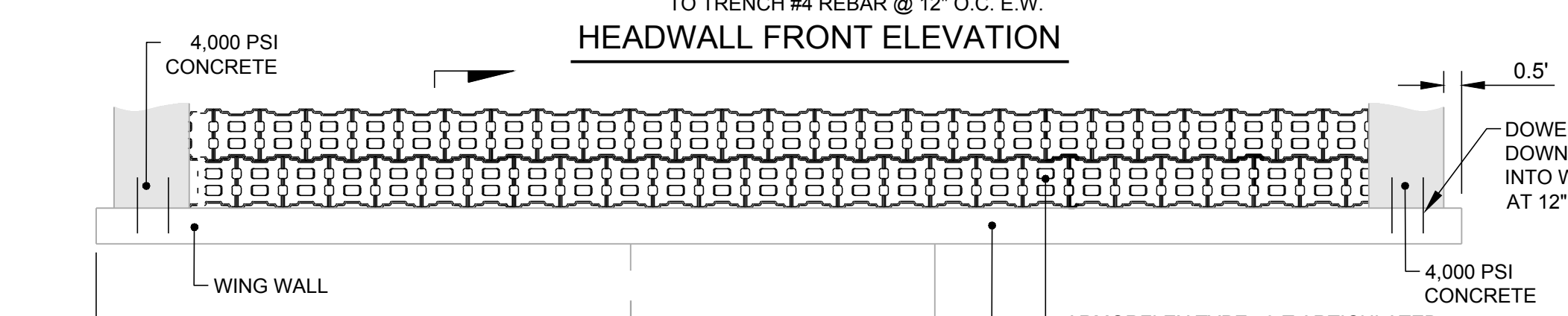
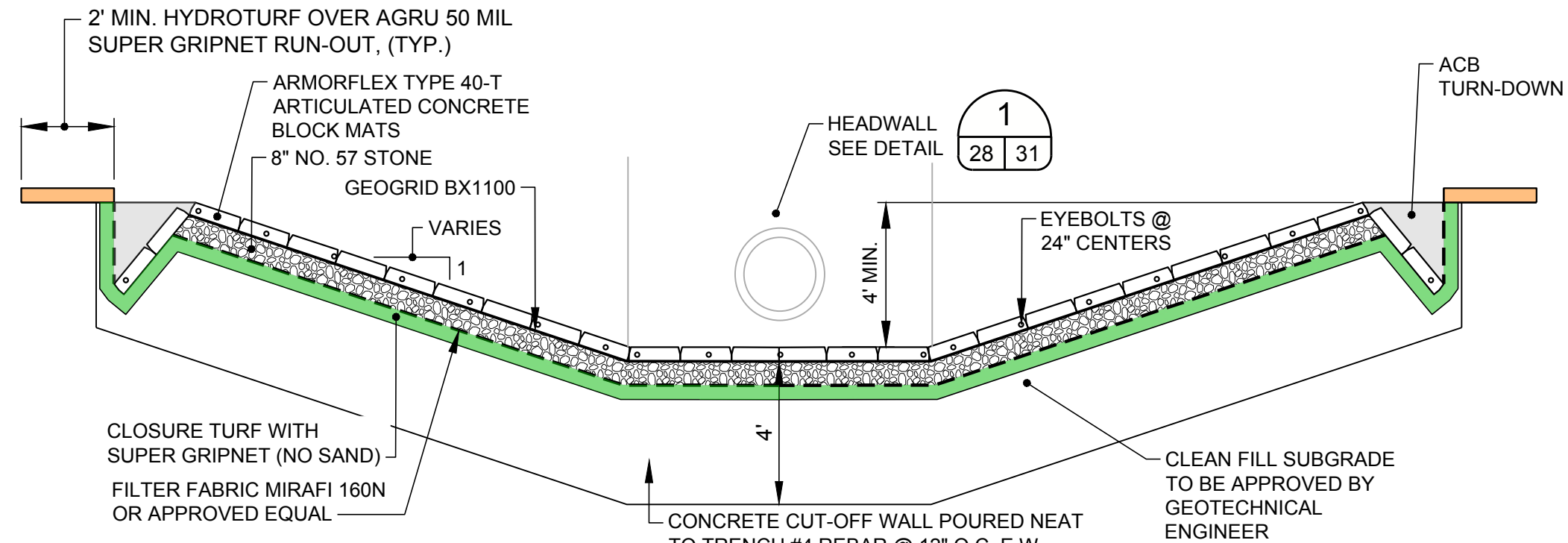
CONSULTANT	YYYY-MMM	2021-NOV
 GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH



PROJECT NO. 1777449 REV. 0 SHEET 27

Path: \\atlantafacstaff\Southern Company\1777449\25-27 DOWNSLOPE CHANNELS PLAN & PROFILES.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION

CLIENT
GEORGIA POWER COMPANY

PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
AP - 3/4 CLOSURE DETAILS - SHEET 1 OF 2

CONSULTANT	YYYY-MMM	2022/04/13
	DESIGNED	GLH
MEMBER OF WSP	PREPARED	AVR
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. 1777449

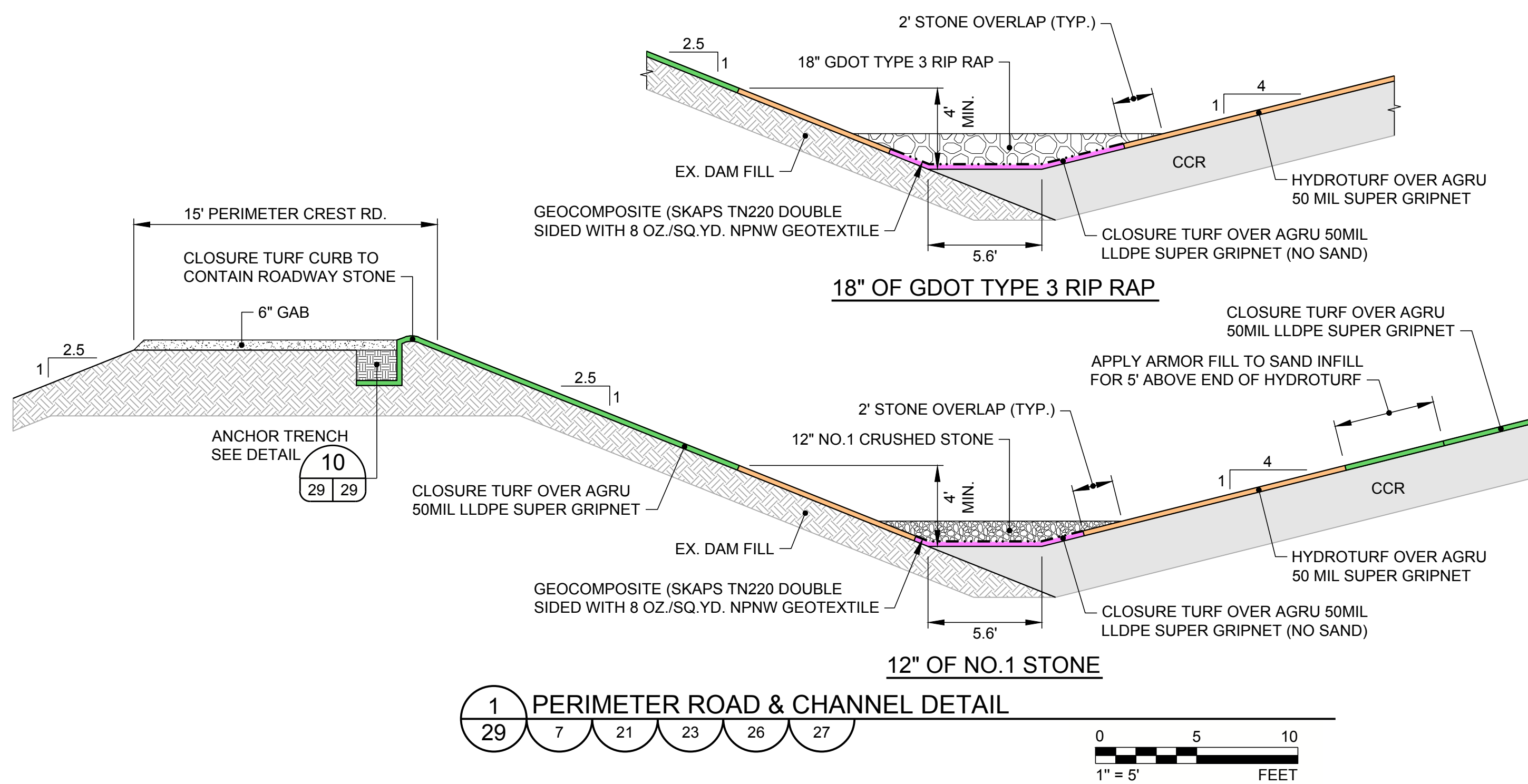
REV. 0

SHEET 28

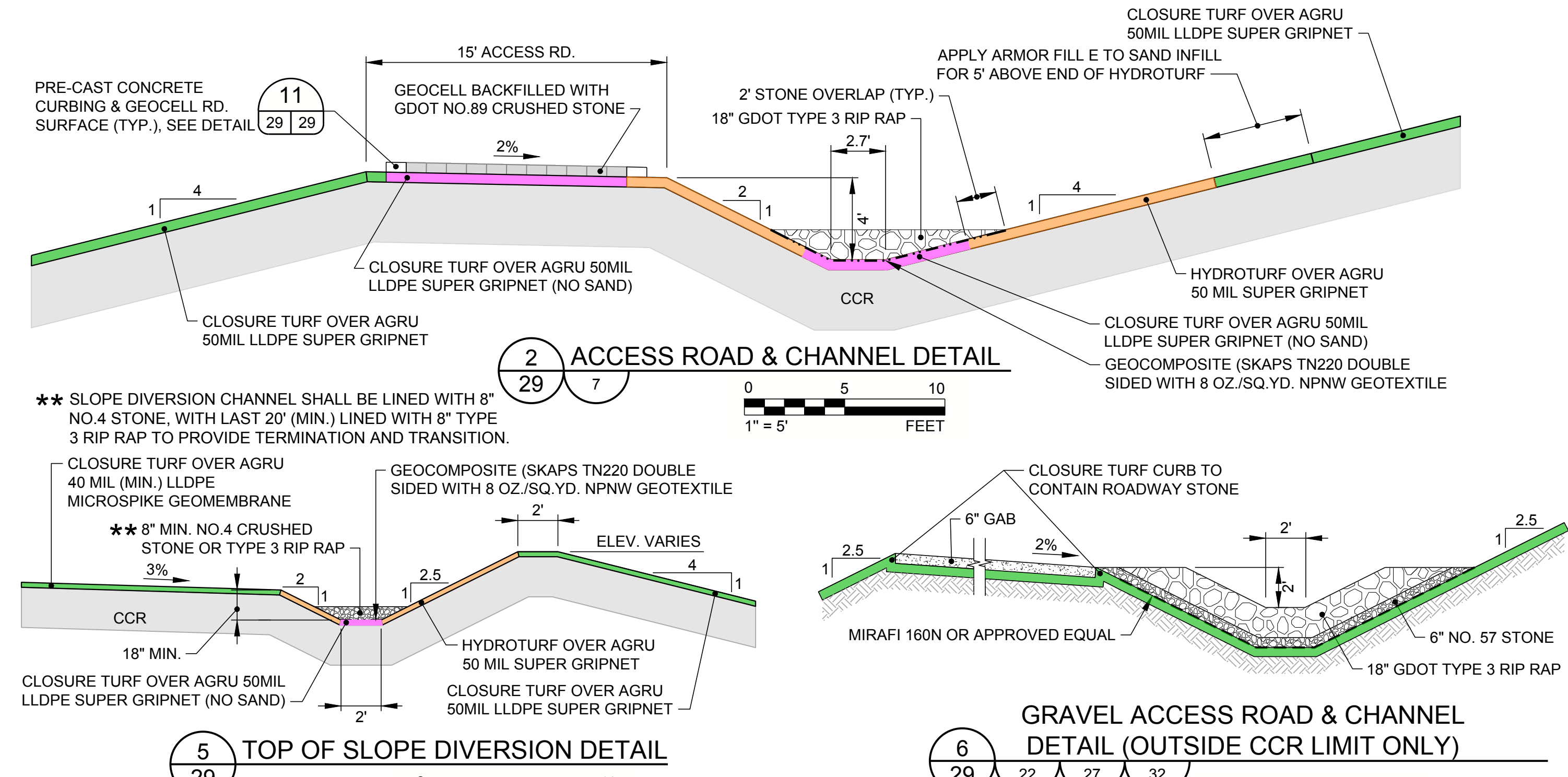
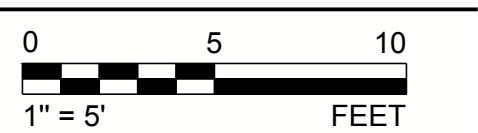


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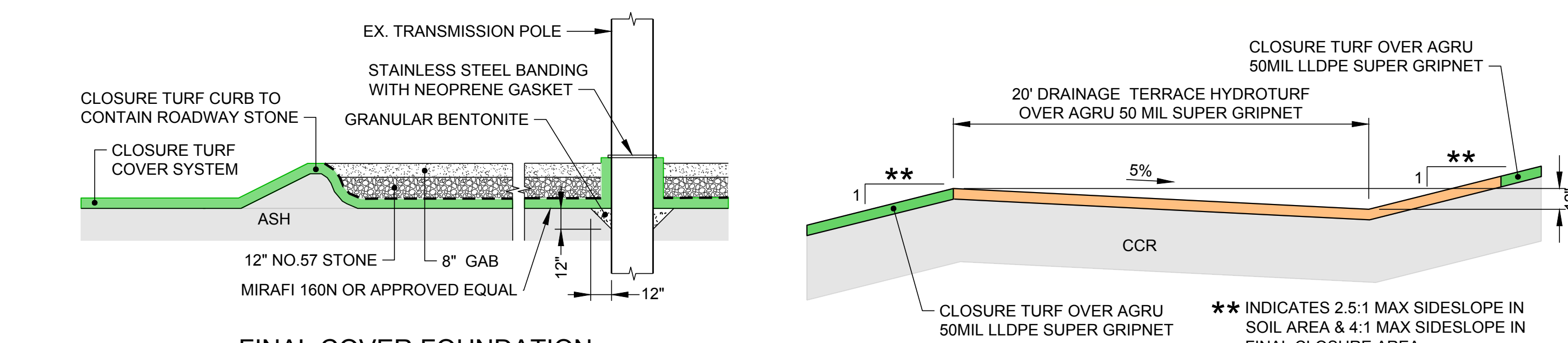
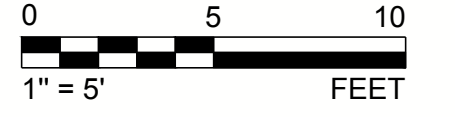
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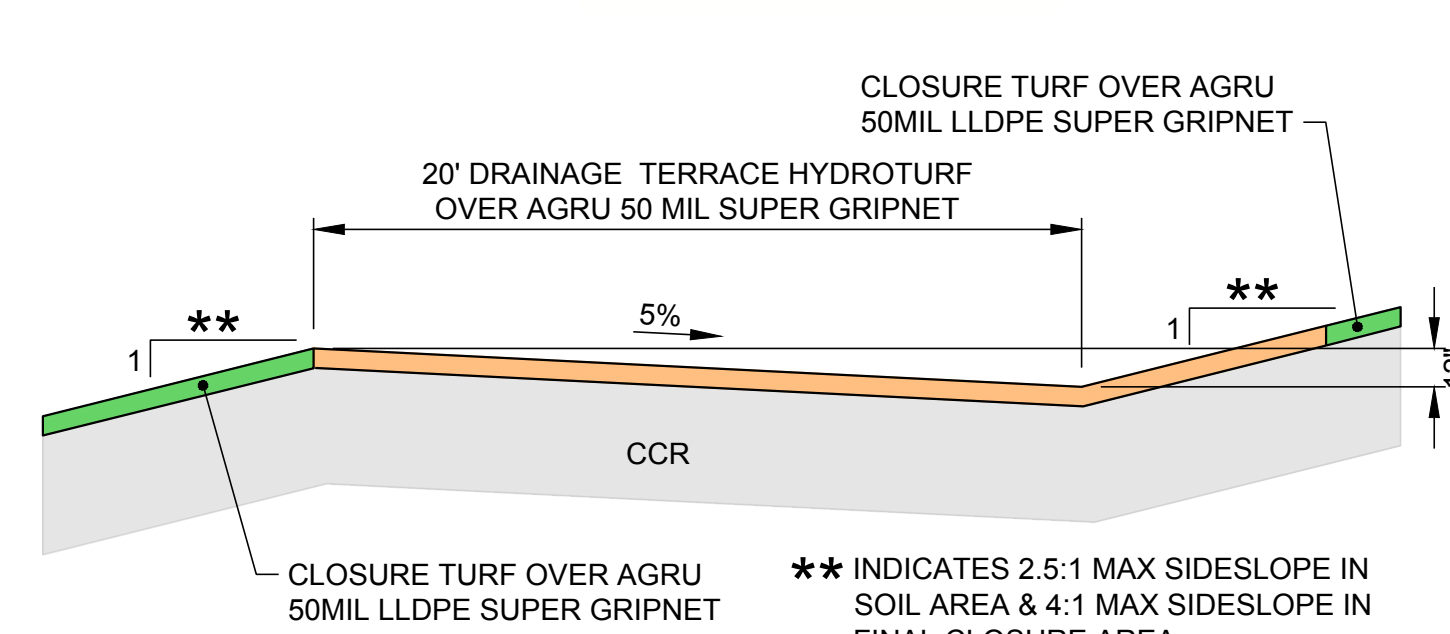
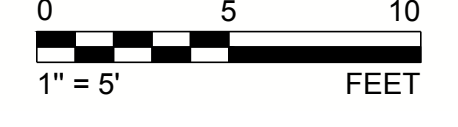
1 PERIMETER ROAD & CHANNEL DETAIL
29 7 21 23 26 27



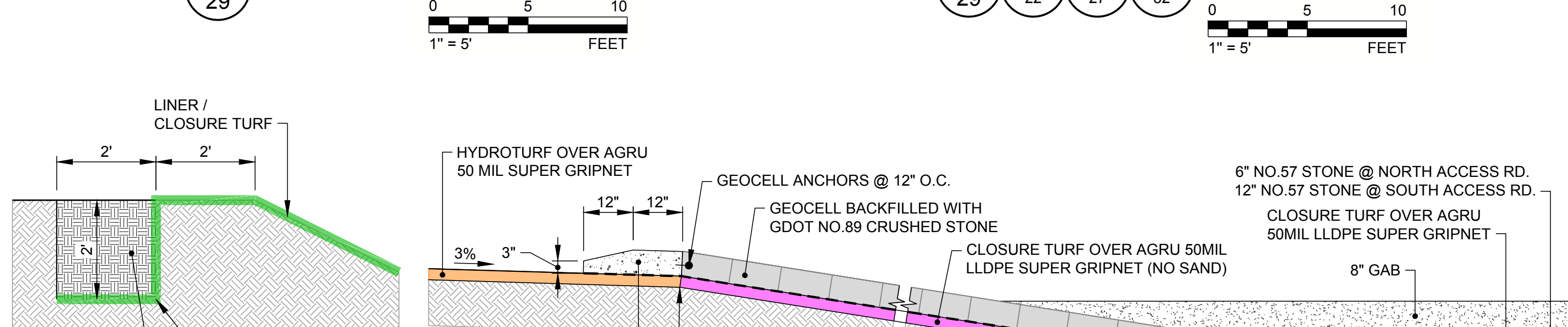
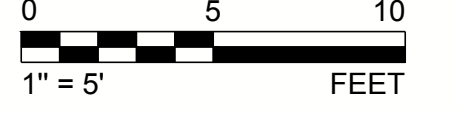
2 ACCESS ROAD & CHANNEL DETAIL
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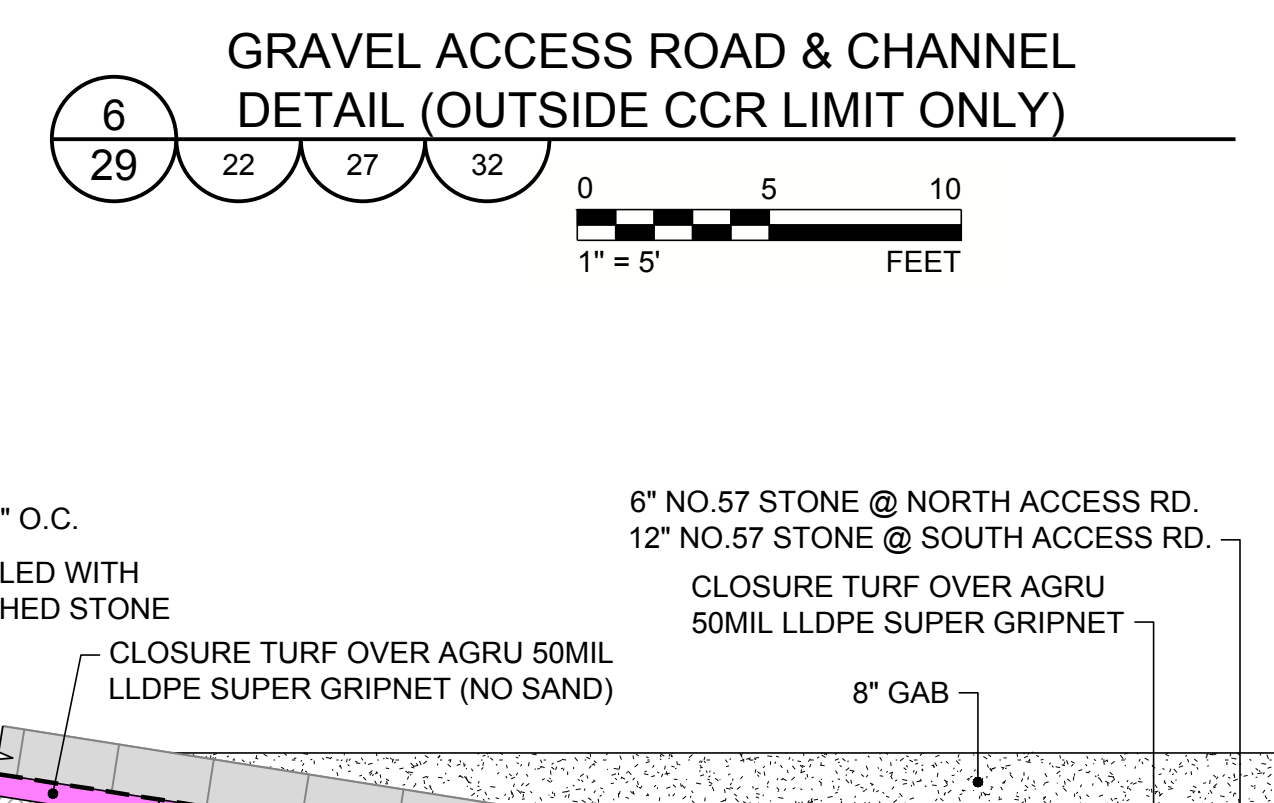
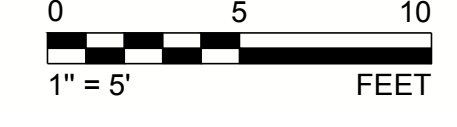
3 FINAL COVER FOUNDATION TRANSMISSION ACCESS DETAIL
29 11



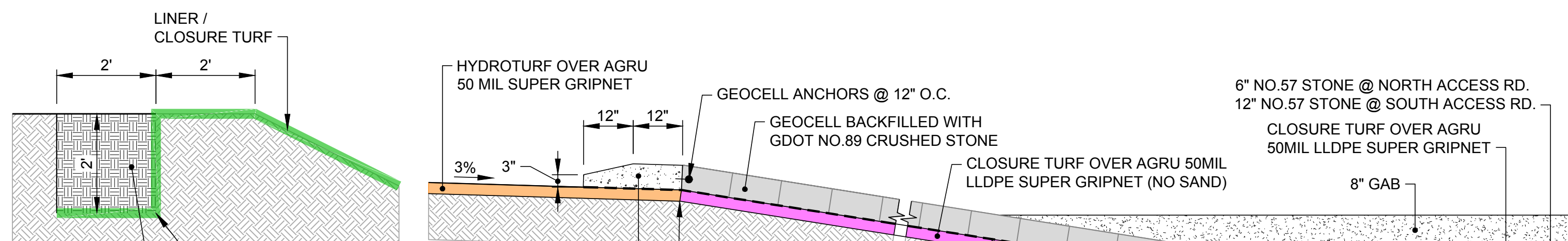
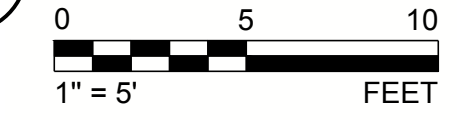
4 DRAINAGE TERRACE DETAIL
29 7



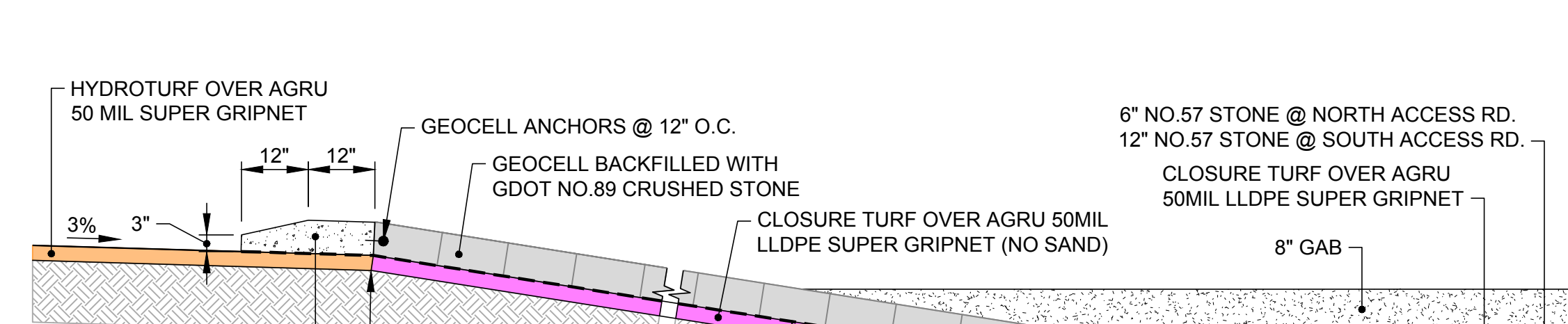
5 TOP OF SLOPE DIVERSION DETAIL
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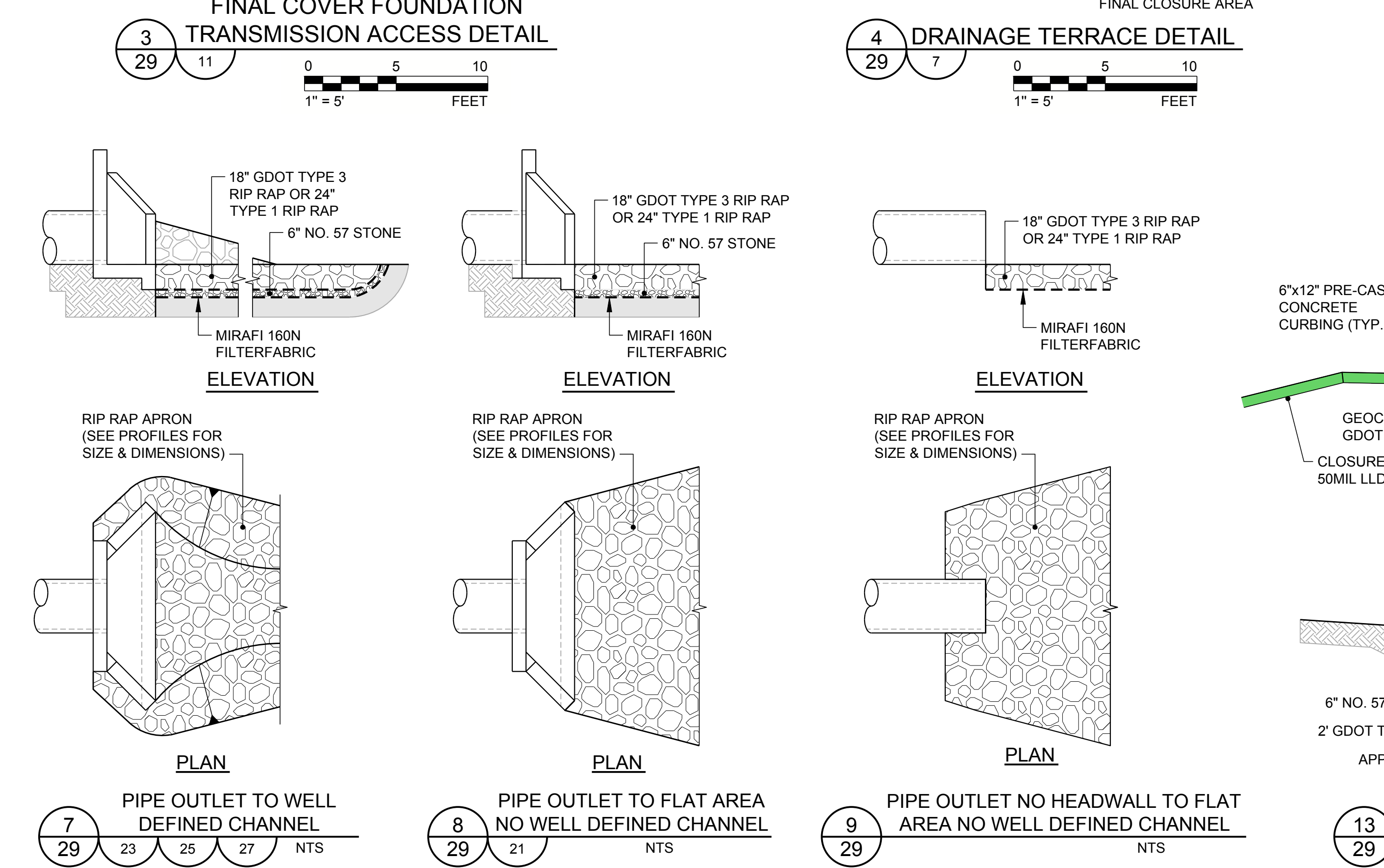
6 GRAVEL ACCESS ROAD & CHANNEL DETAIL (OUTSIDE CCR LIMIT ONLY)
29 22 27 32



10 TYPICAL ANCHOR TRENCH
29 29 NTS



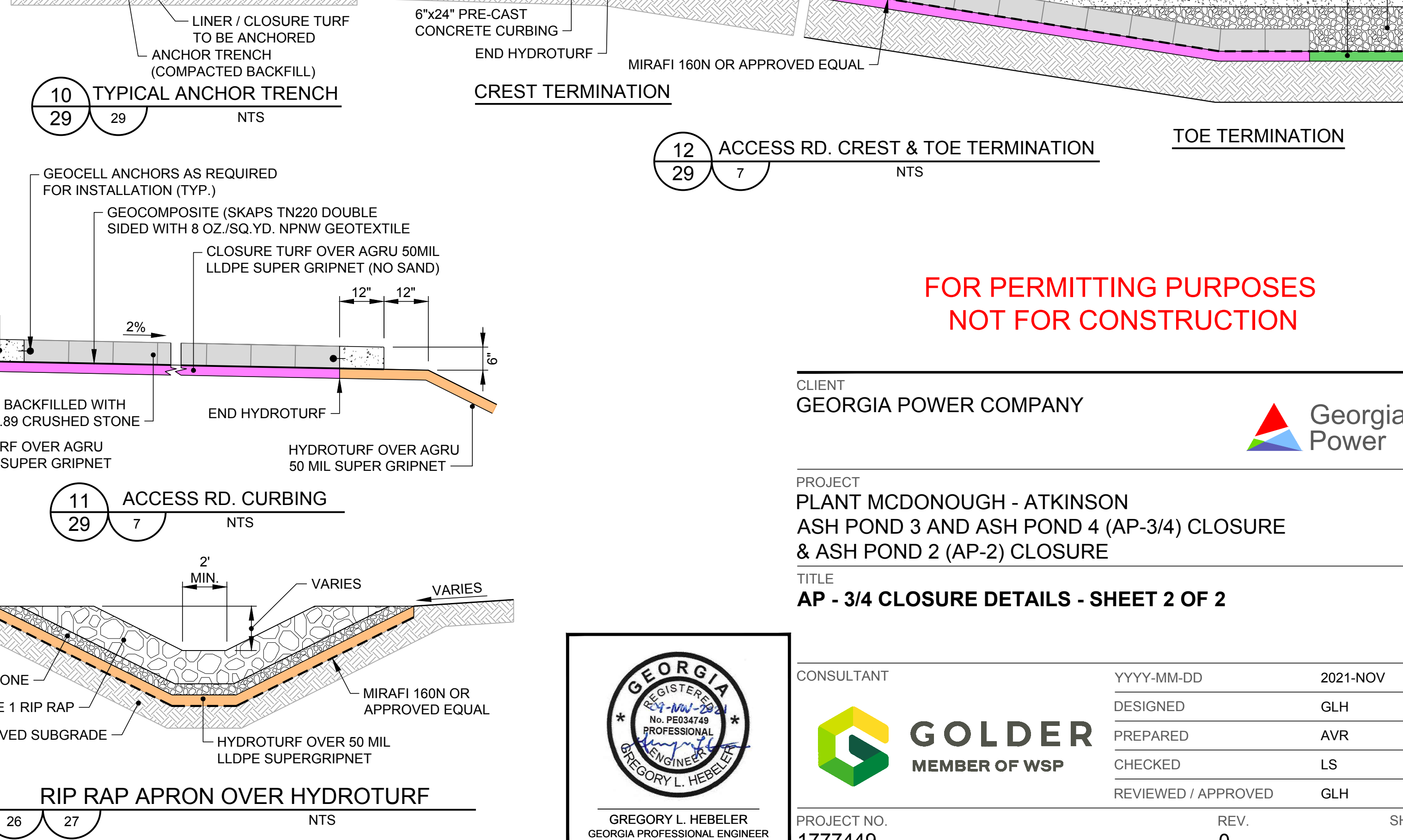
11 ACCESS RD. CURBING
29 7 NTS



7 PIPE OUTLET TO WELL DEFINED CHANNEL
29 23 25 27 NTS

8 PIPE OUTLET TO FLAT AREA NO WELL DEFINED CHANNEL
29 21 NTS

9 PIPE OUTLET NO HEADWALL TO FLAT AREA NO WELL DEFINED CHANNEL
29 NTS



12 ACCESS RD. CREST & TOE TERMINATION
29 7 NTS

13 RIP RAP APRON OVER HYDROTURF
29 26 27 NTS

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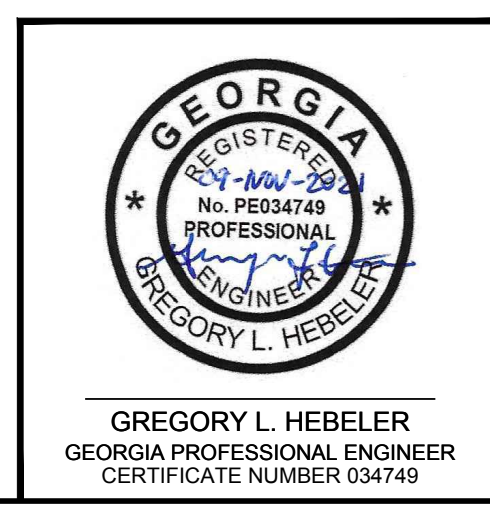
CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE
TITLE
AP - 3/4 CLOSURE DETAILS - SHEET 2 OF 2

CONSULTANT	YYYY-MM-DD	2021-NOV
	DESIGNED	GLH
	PREPARED	AVR
	CHECKED	LS
	REVIEWED / APPROVED	GLH

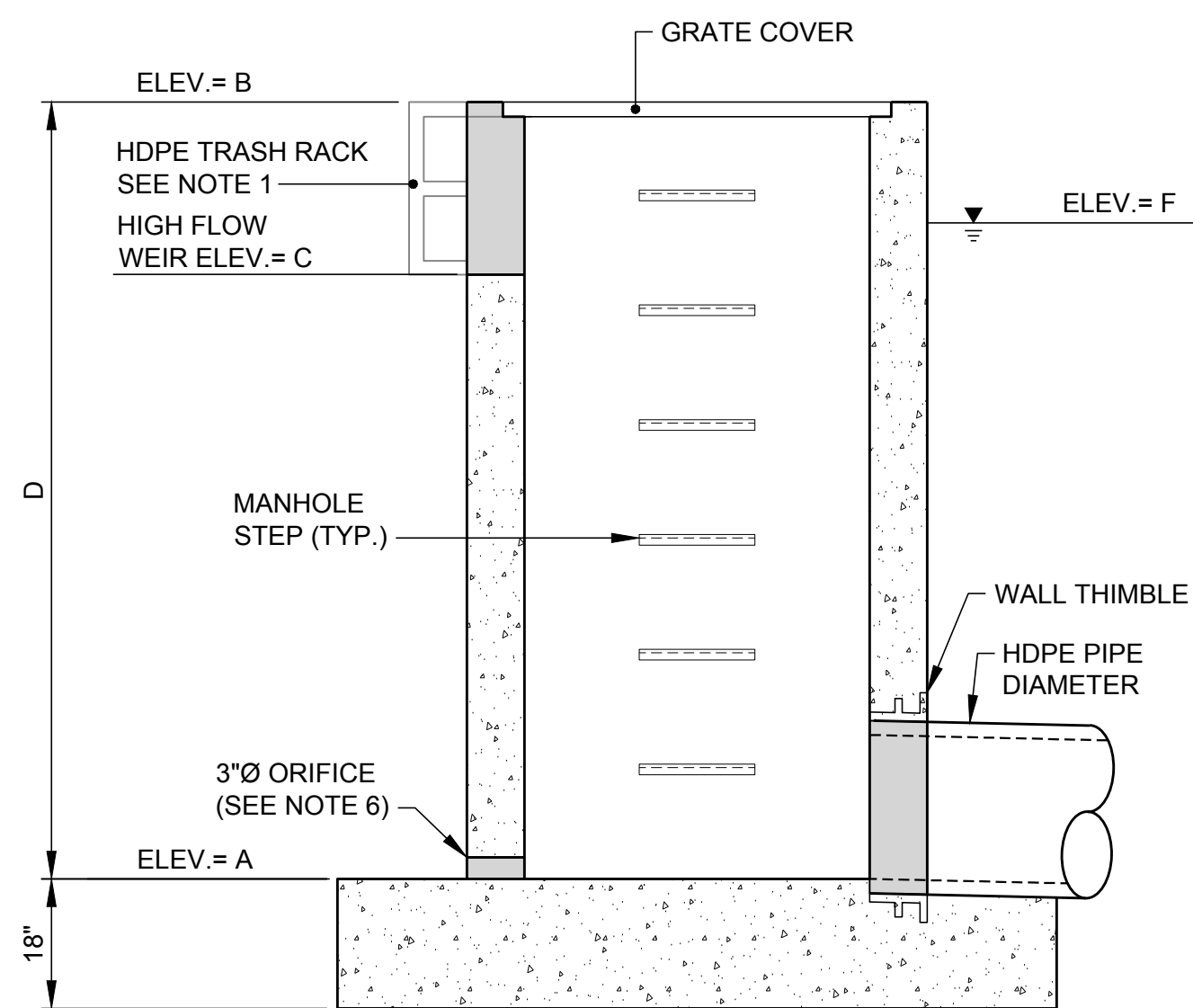
PROJECT NO. 1777449 REV. 0 SHEET 29



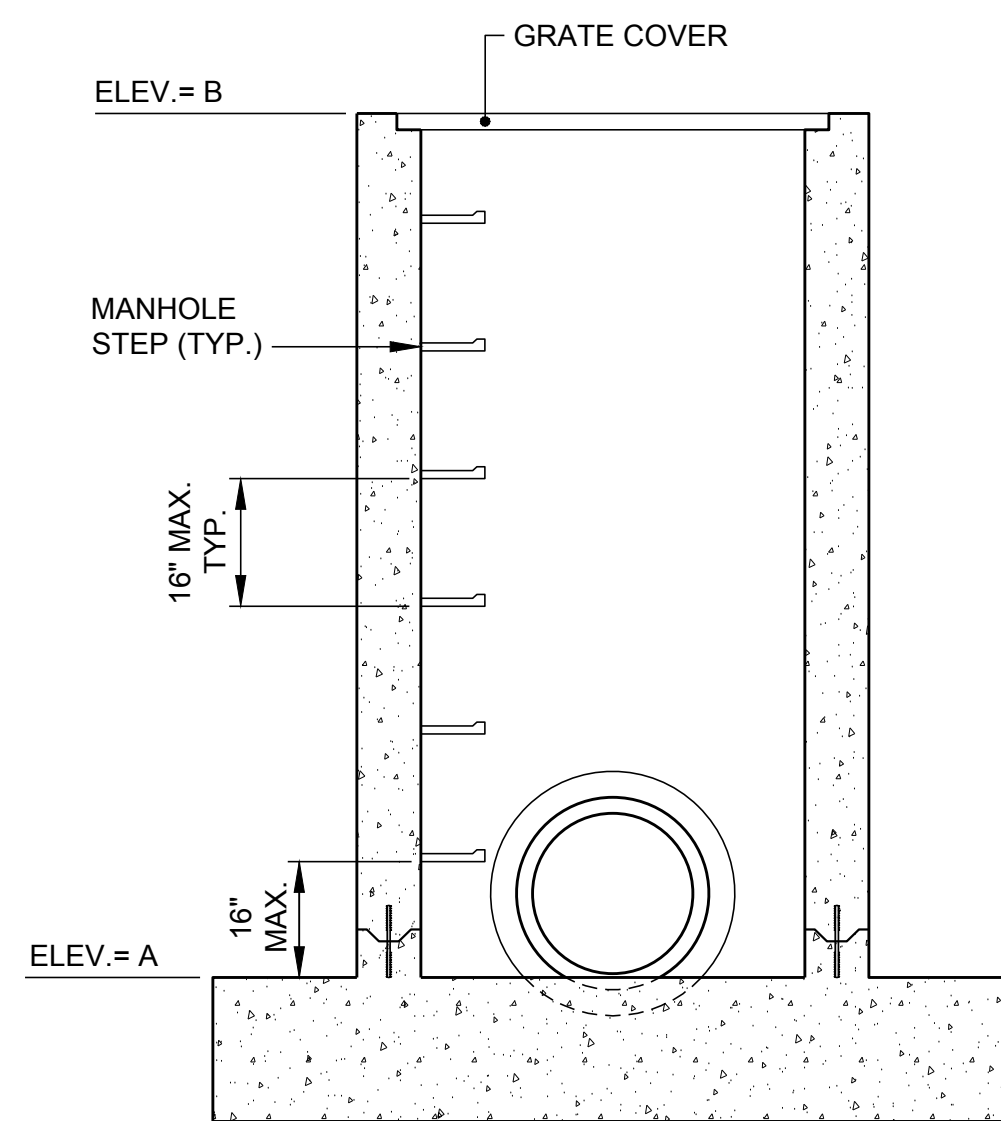
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS I D

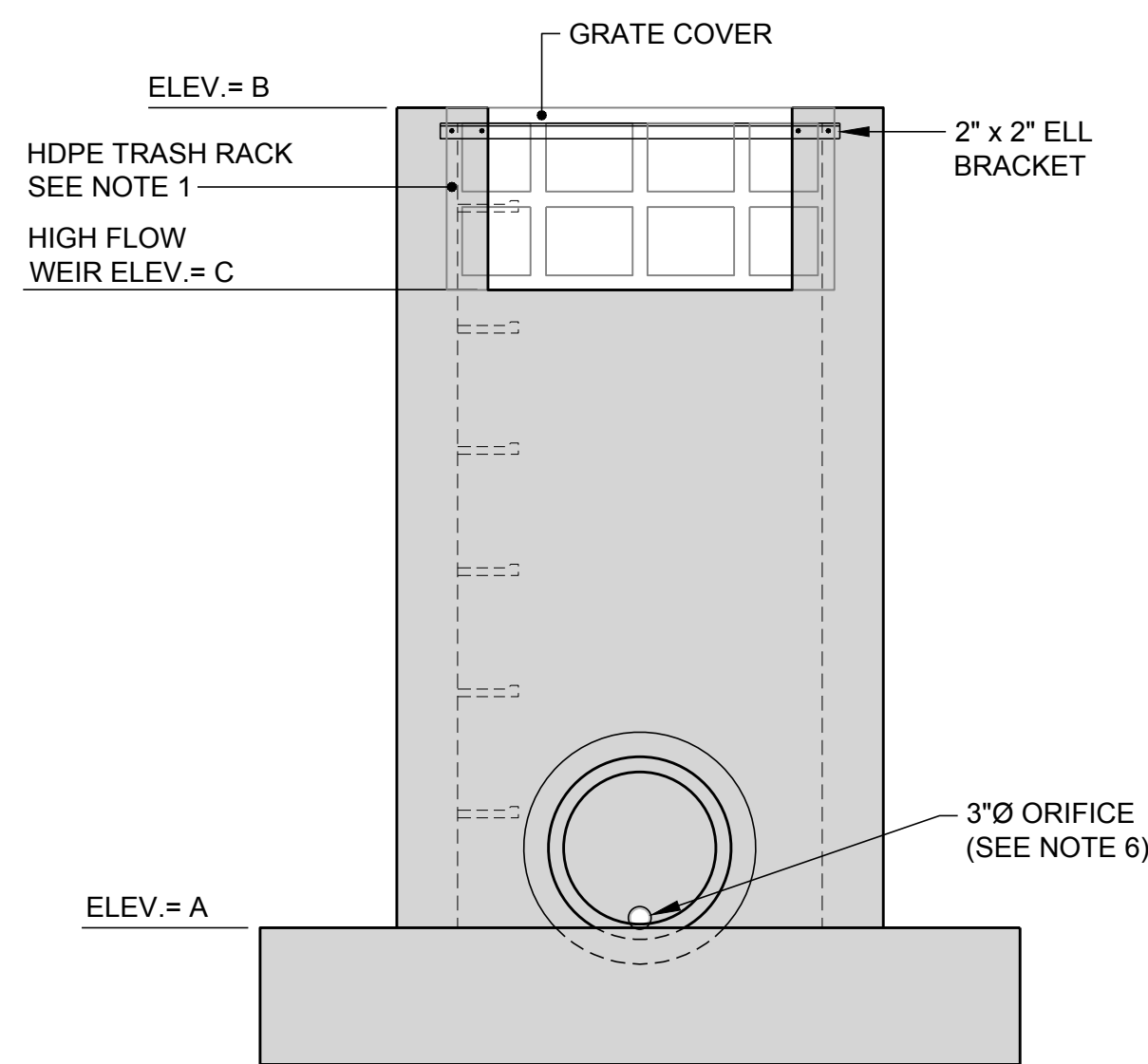
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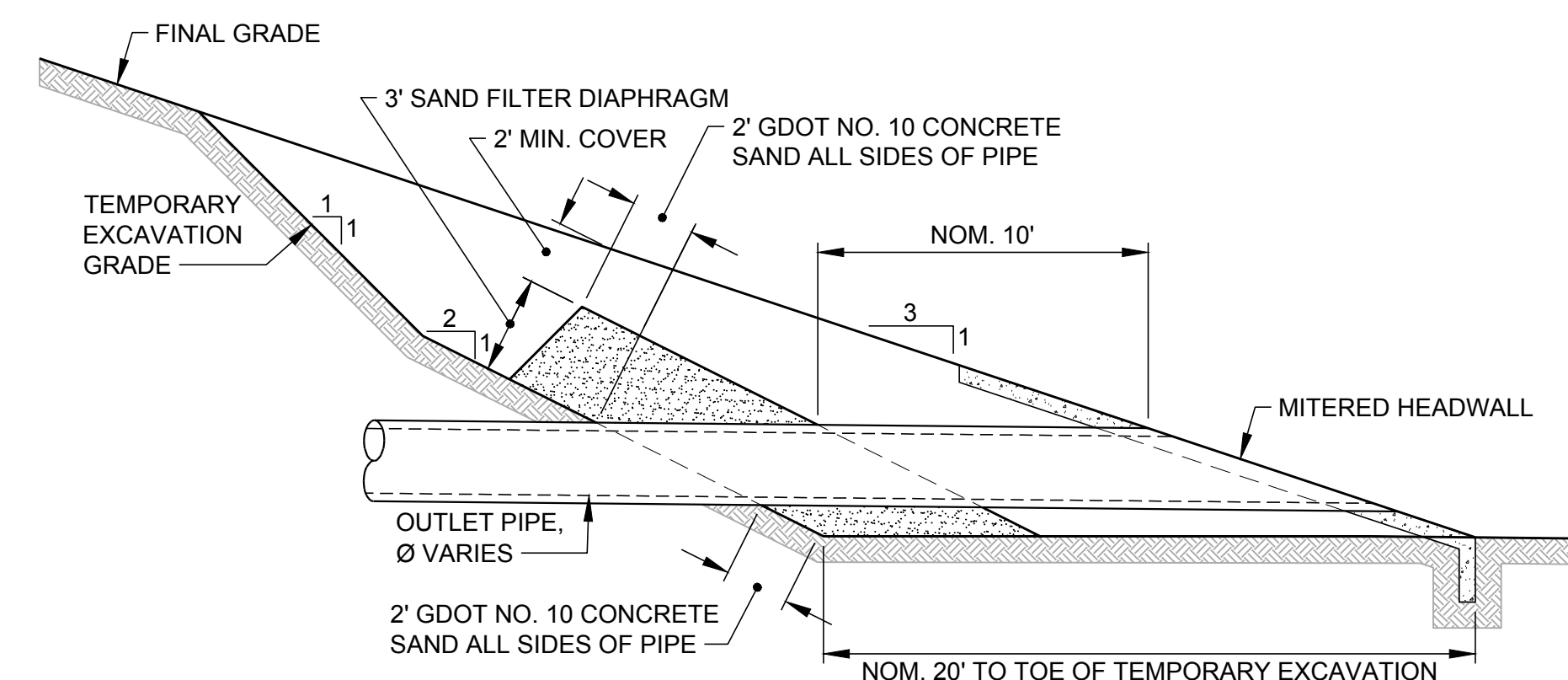
SECTION A-A



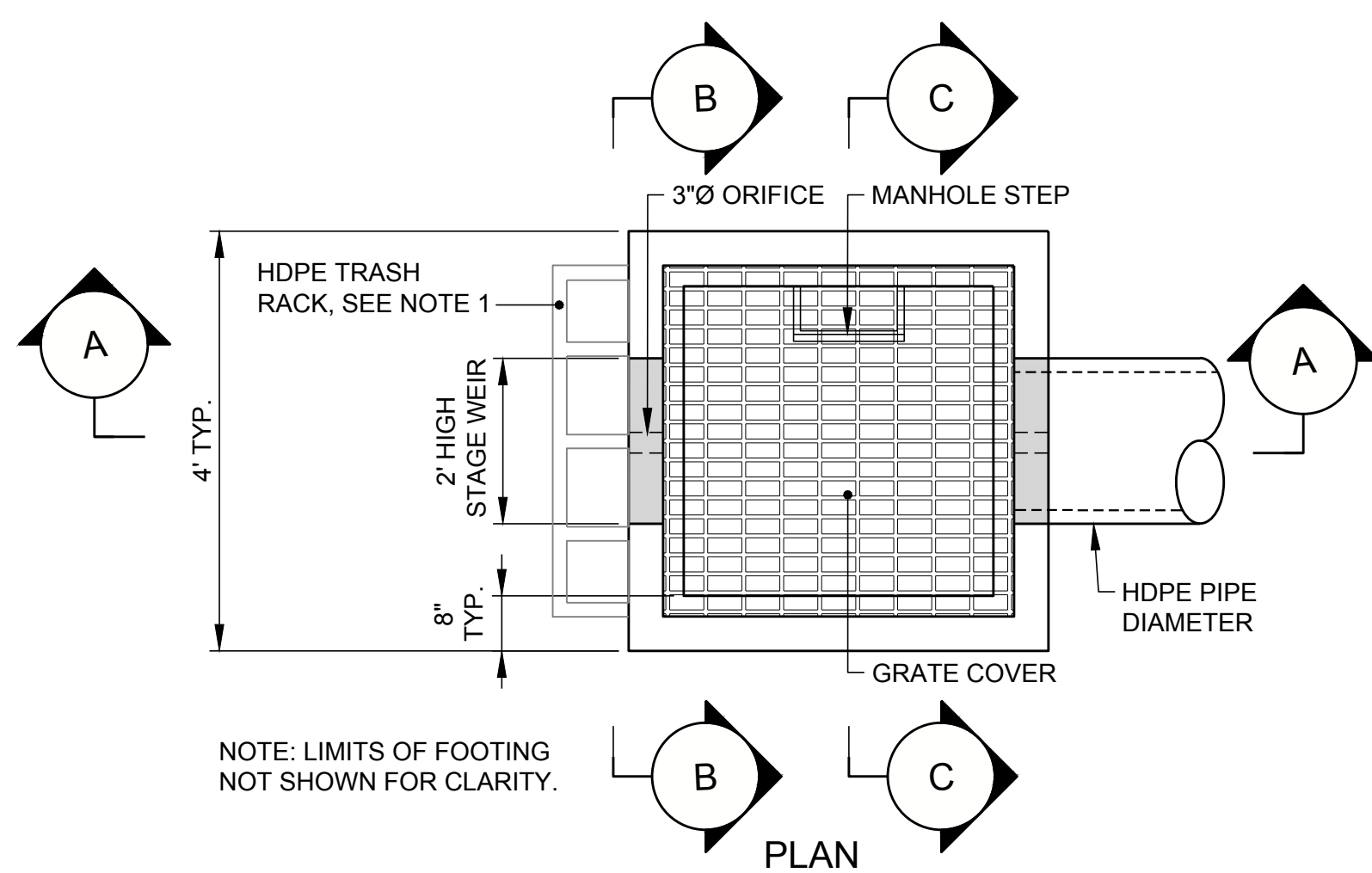
SECTION B-B



SECTION C-C

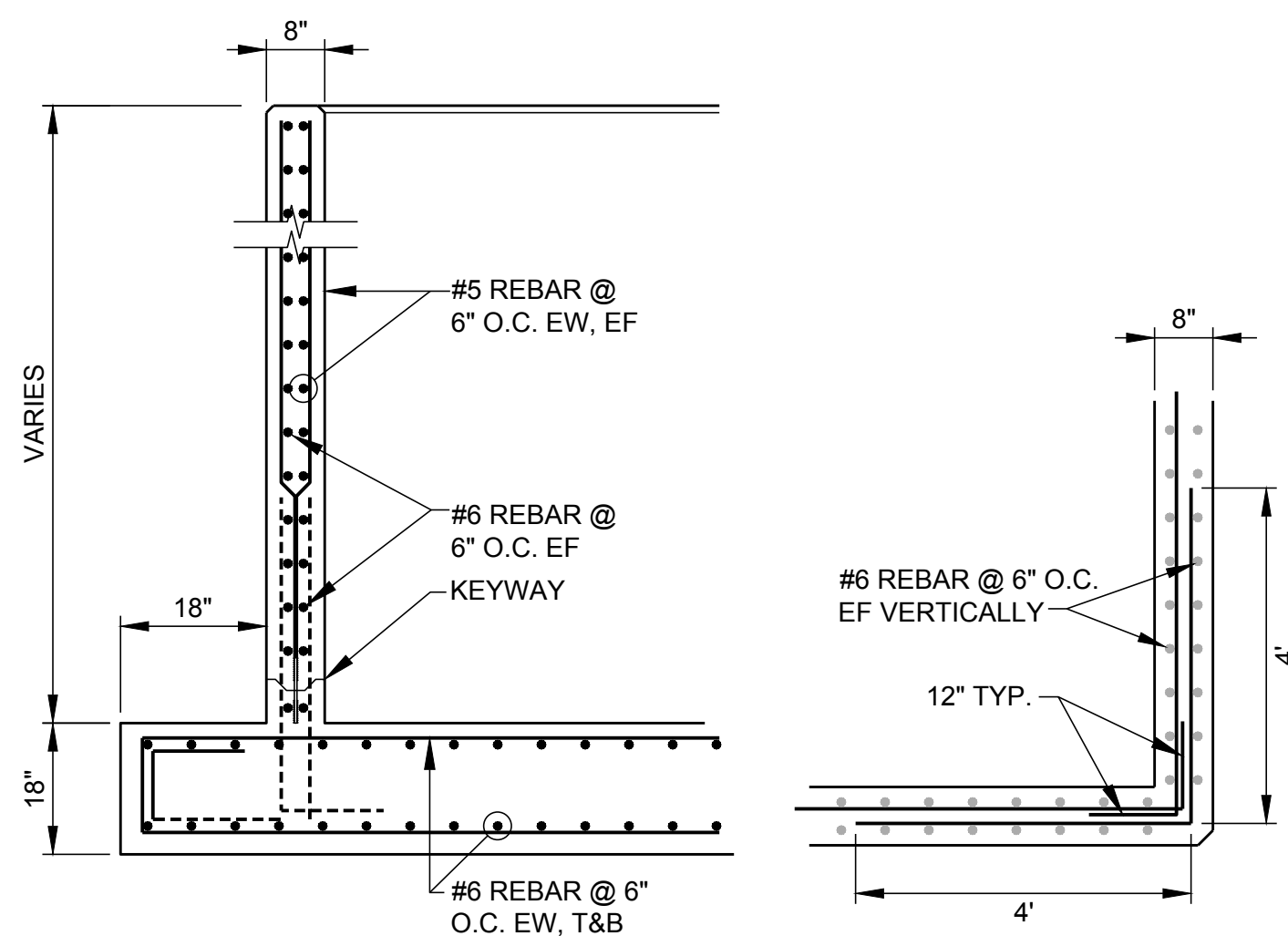


LONGITUDINAL SECTION



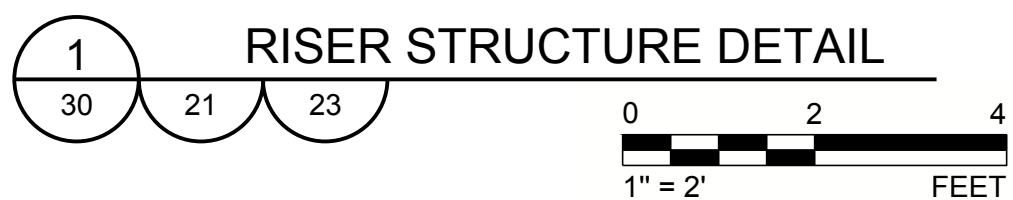
PLAN

NOTE: LIMITS OF FOOTING NOT SHOWN FOR CLARITY.



TYPICAL REINFORCEMENT SECTION

TYPICAL WALL CORNER REINFORCEMENT - PLAN

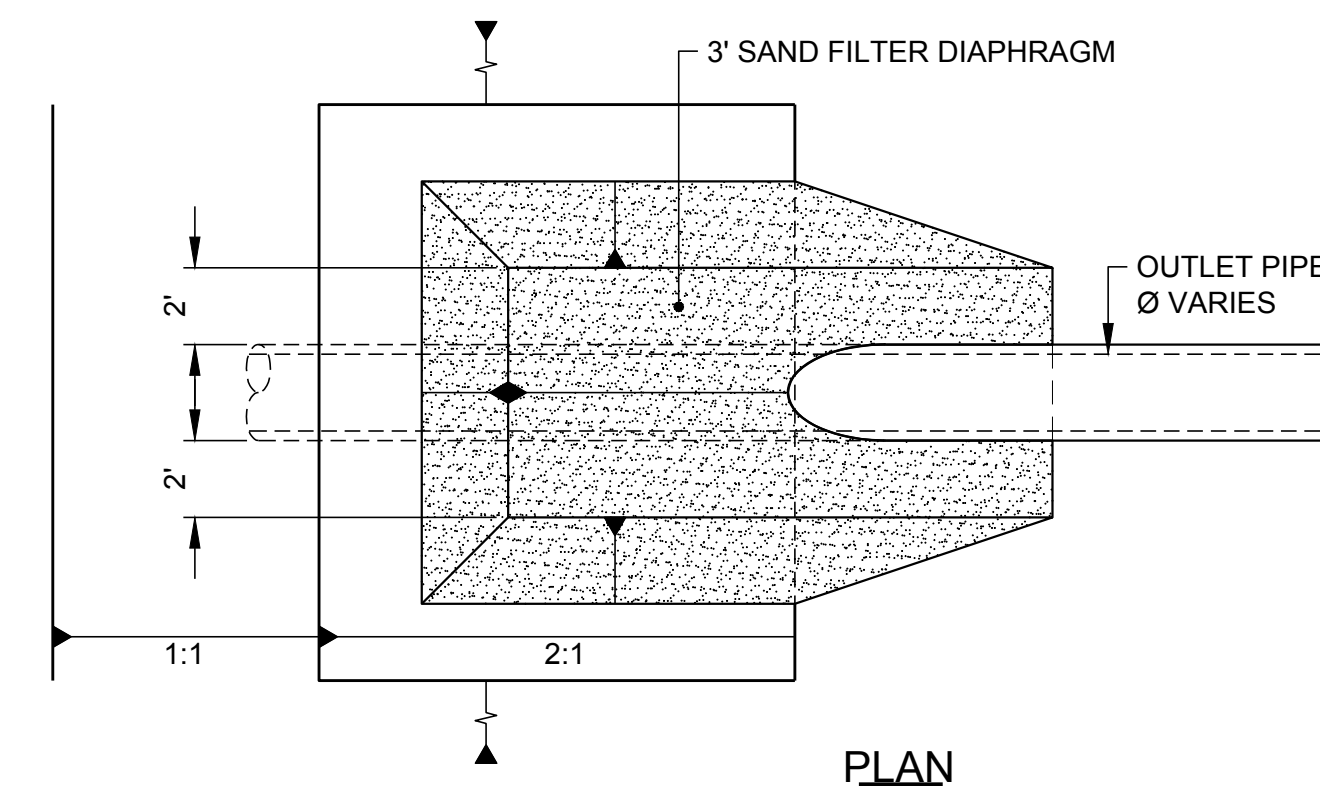


RISER STRUCTURE DETAIL

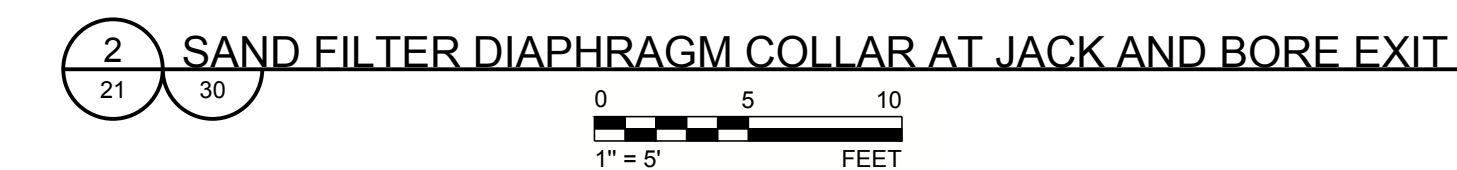
SPILL WAY STRUCTURE SCHEDULE		
	POND #1	POND #3
A - INVERT ELEV.	828.0	832.0
B - TOP ELEV.	838.0	843.0
C - WEIR ELEV.	836.0	841.0
D - HEIGHT	10'	8.2'
E - PIPE DIAMETER	24"	18"
F - 100 YR PEAK WSE	837.5	842.3

NOTES

- HDPE TRASH RACK AS SPECIFIED BY "PLASTIC SOLUTIONS INC.", OR APPROVED EQUIVALENT.
- ALL CONCRETE TO BE CLASS 4000. ALL REINFORCEMENT SHALL BE GRADE 60.
- ALL EXPOSED EDGES SHALL HAVE A MINIMUM ONE INCH CHAMFER.
- REBAR SHALL HAVE A 3 INCH CONCRETE COVER WHEN POURED AGAINST GROUND SURFACE AND A 2 INCH CONCRETE COVER WHEN POURED AGAINST FORMS.
- ON UNEXPOSED JOINTS CLOSED CELL ROUND BUTYL CORD 1/4 INCH LARGER THAN THE JOINT AS MEASURED IN THE FIELD, SHALL BE INSTALLED.
- DETENTION POND 3 OUTLET STRUCTURE TO RECEIVE SIX 3" DIAMETER LOW LEVEL OUTLET ORIFICES.



PLAN



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GEORGIA POWER COMPANY

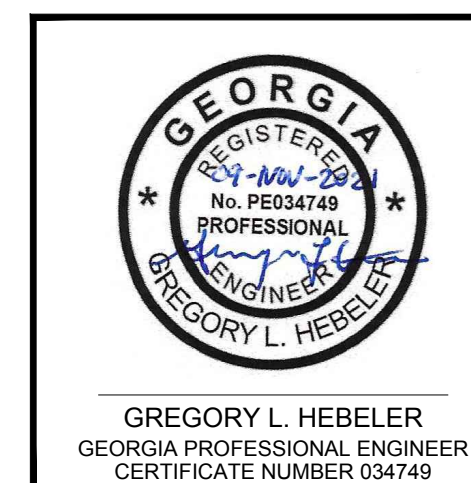


PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
**AP-3/4 SURFACE WATER MANAGEMENT DETAILS -
SHEET 1 OF 5**

CONSULTANT	YYYY-MMM	2021-NOV
DESIGNED	GLH	
PREPARED	AVR	
CHECKED	LS	
REVIEWED / APPROVED	GLH	

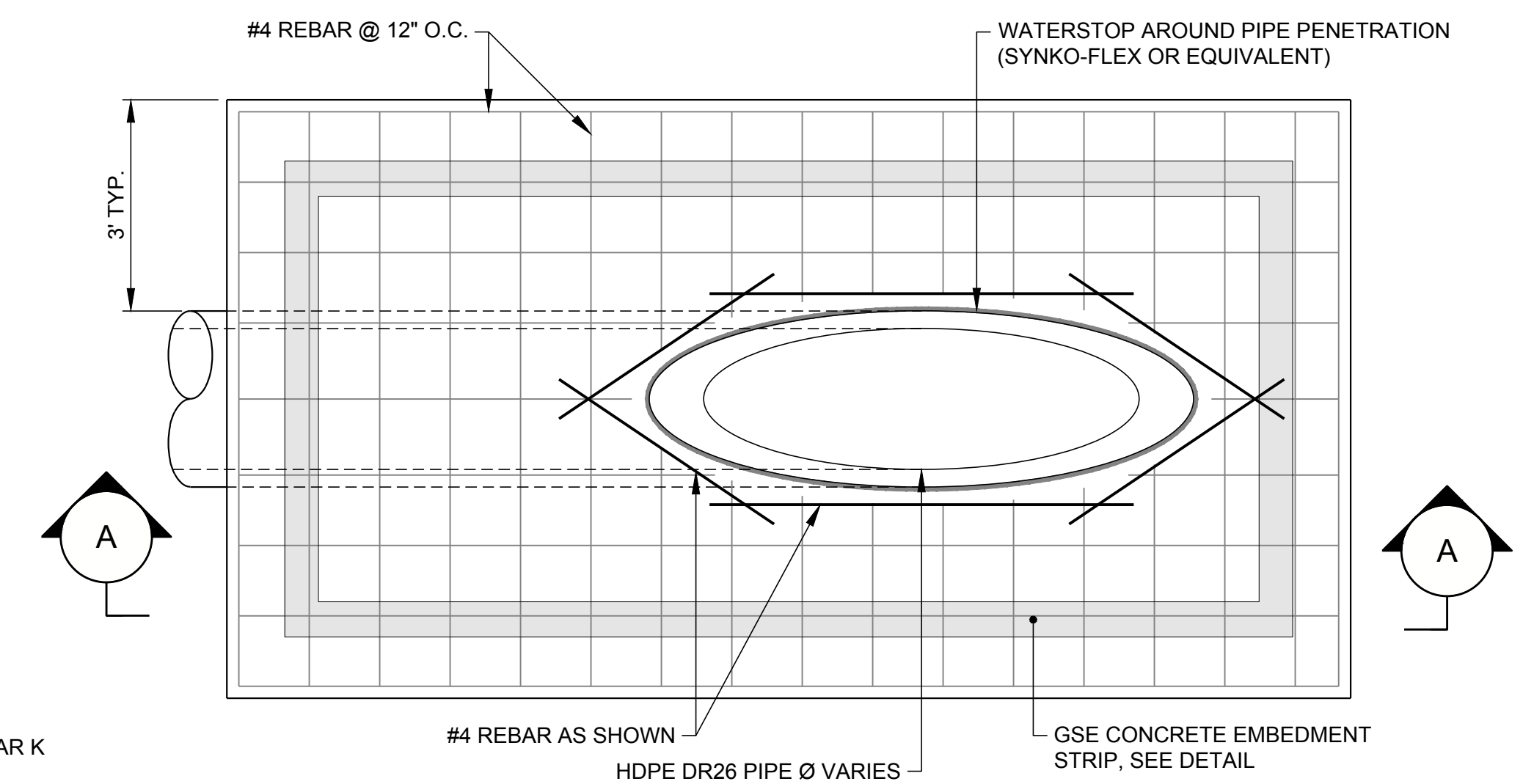
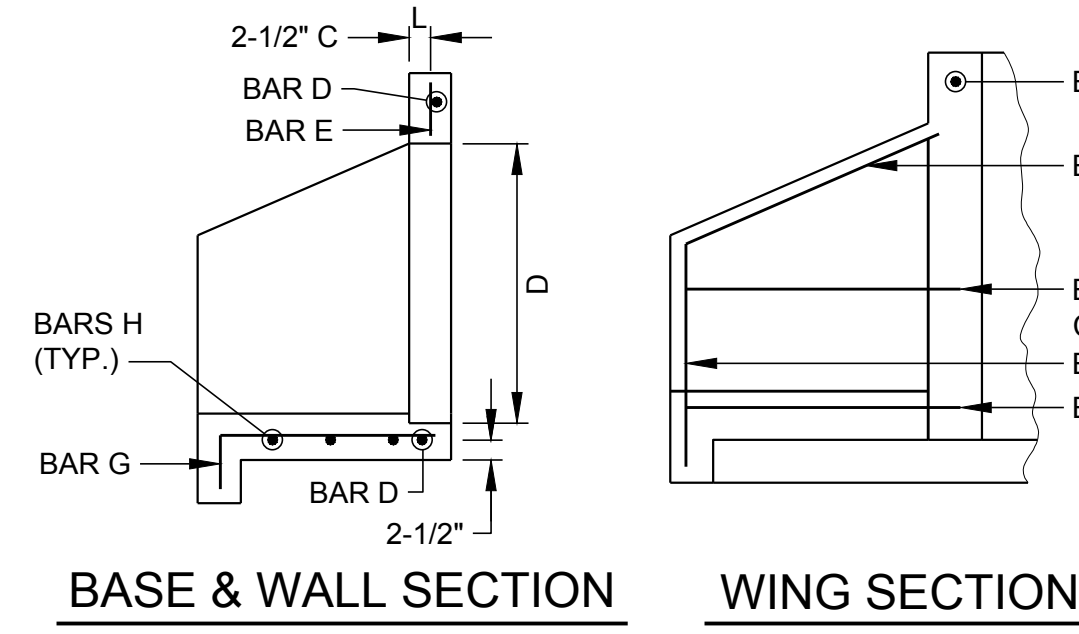
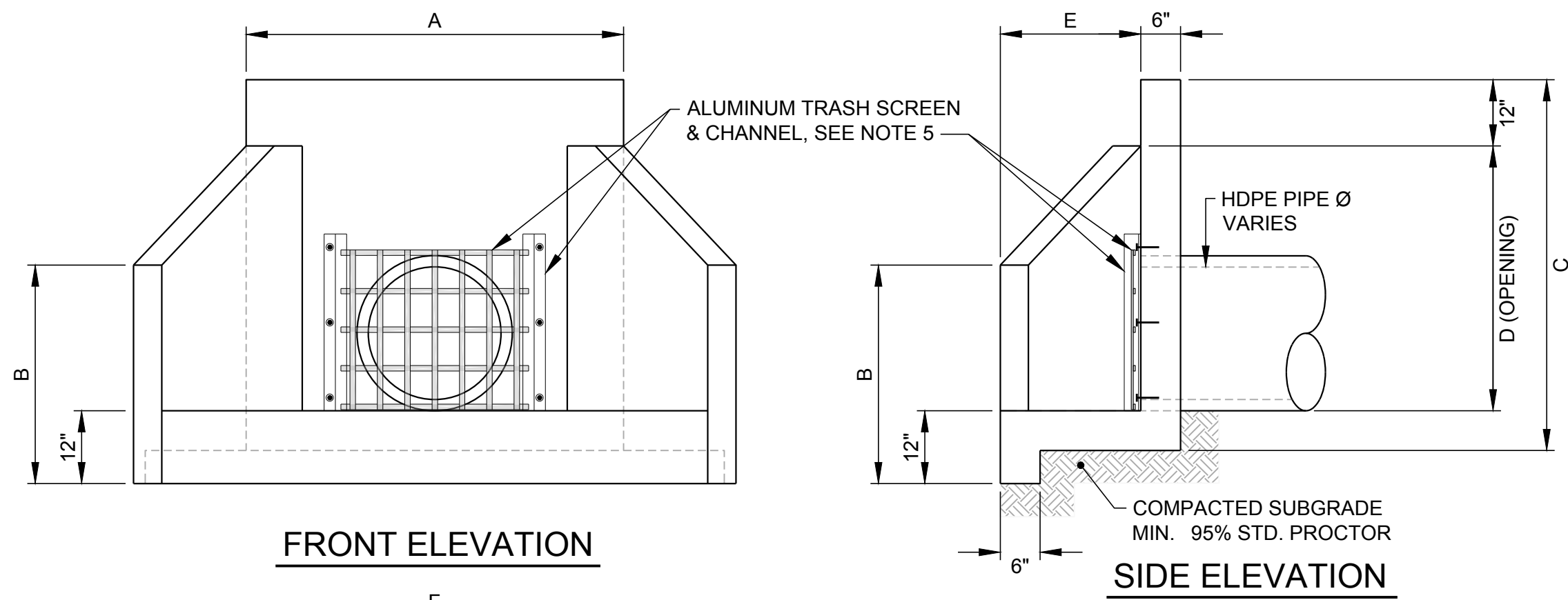
PROJECT NO. 1777449 REV. 0 SHEET 30



GREGORY L. HEBEL
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749



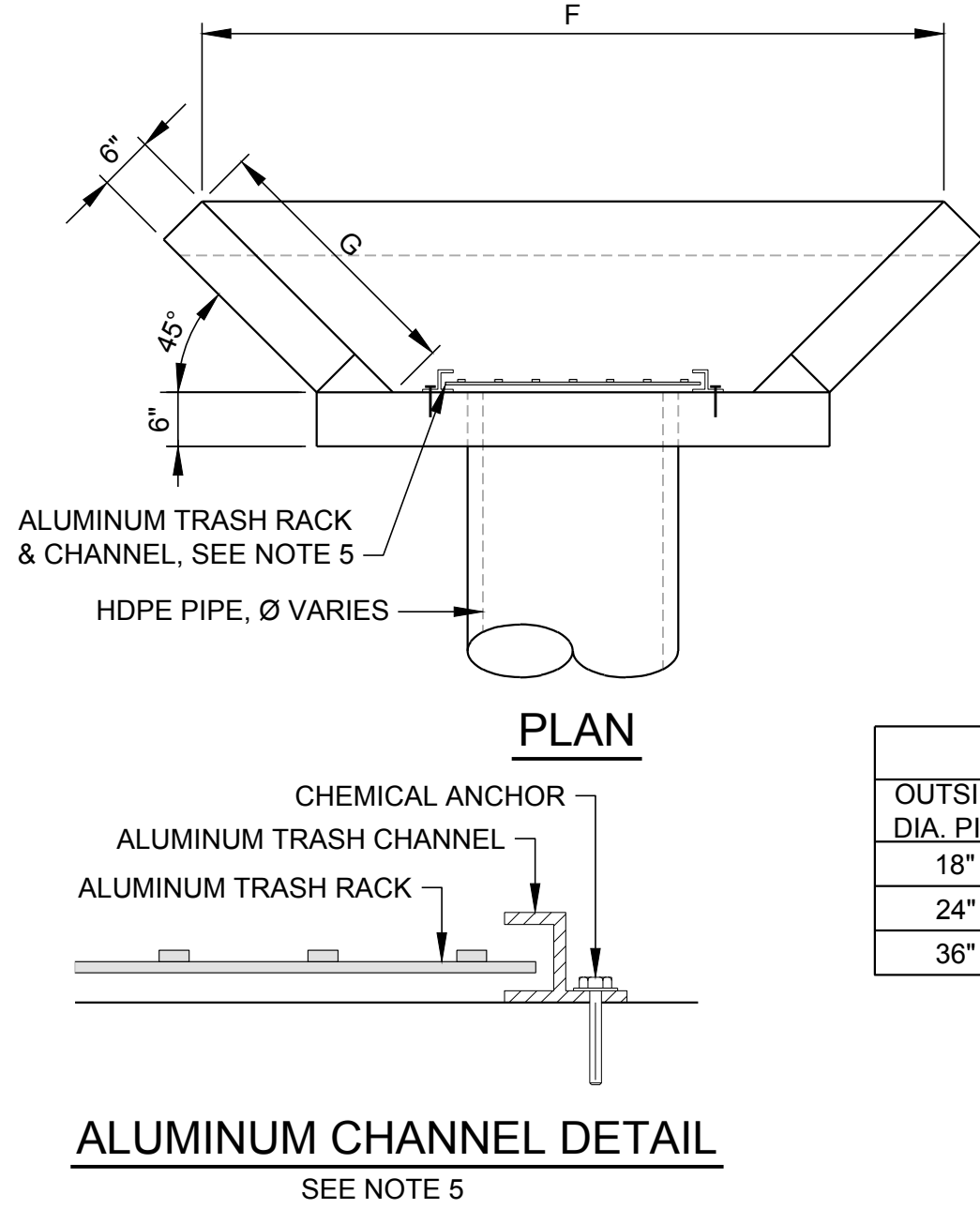
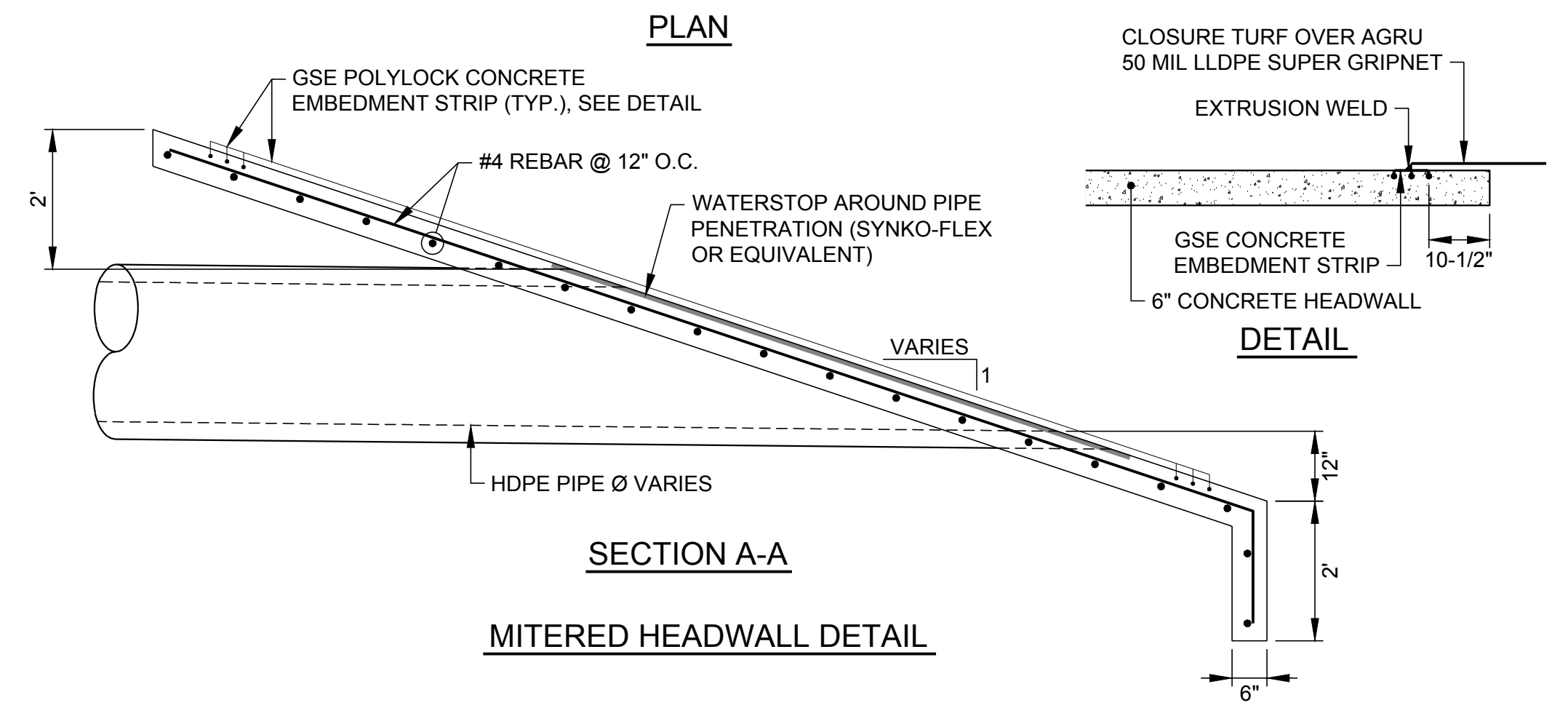
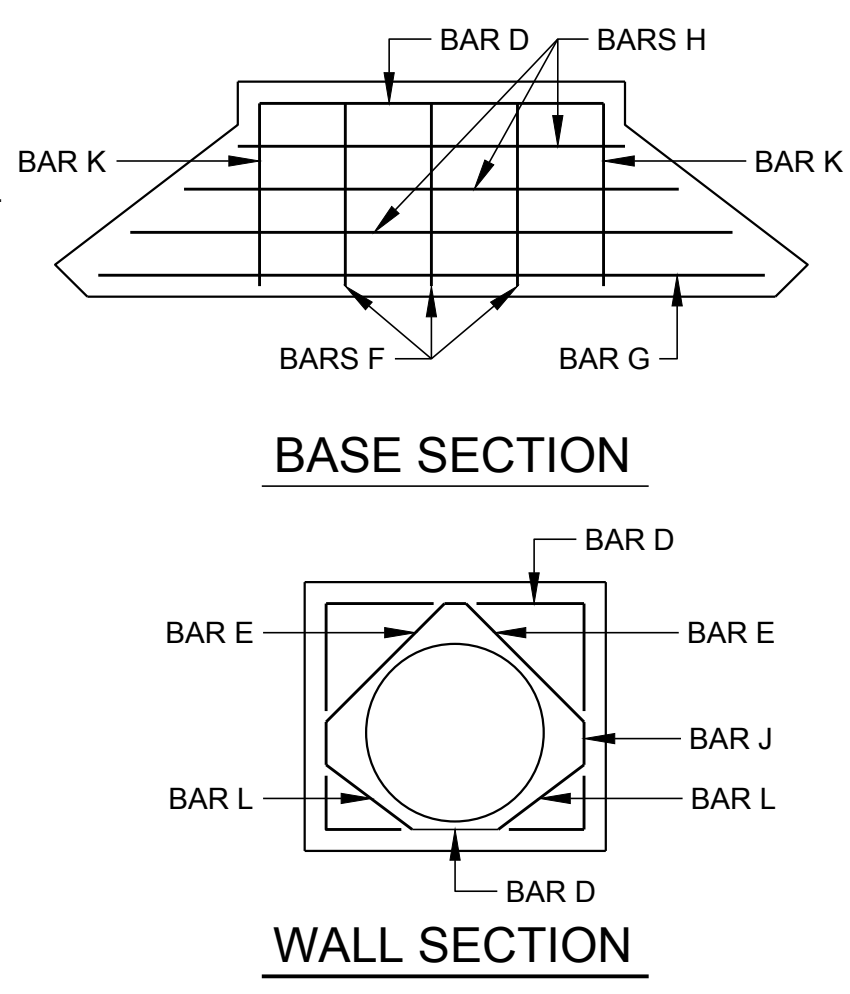
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D 11



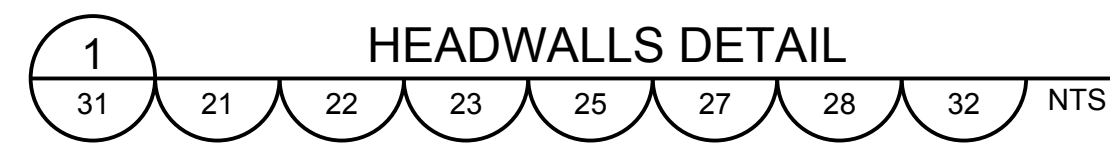
- NOTES**
- ALL CONCRETE SHALL BE 4000 PSI.
 - REINFORCING STEEL SHALL BE #4 BARS (MIN.), GRADE 60, @ 12" O.C. MAX. SPACING.
 - PLACE REINFORCING 2" CLEAR MIN.
 - CHAMFER ALL EXPOSED EDGES 1".
 - ALUMINUM TRASH SCREEN TO BE INSTALLED ON HEADWALL AT POND 2 OUTLET PIPE AND AT THE UPSTREAM END OF THE CROSSOVER STRUCTURE ONLY. ALUMINUM TRASH SCREEN SHALL BE 1" WIDE BY 3/8" THICK AND HAVE 4"x6" NOMINAL OPENINGS. TRASH SCREEN SHALL BE INSERTED IN 2"x3" ALUMINUM CHANNELS IN A MANNER WHICH FACILITATES REMOVAL FOR SERVICING LOW LEVEL OUTLET PIPE. ALUMINUM CHANNELS SHALL BE ATTACHED TO HEADWALL USING CHEMICAL ANCHORS AS APPROVED BY ENGINEER.

BAR REINFORCING DETAILS

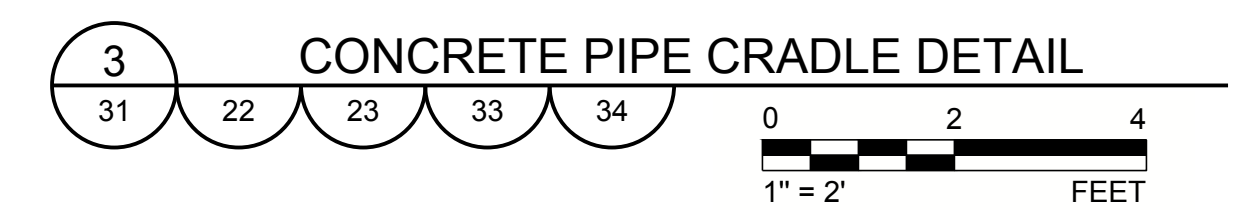
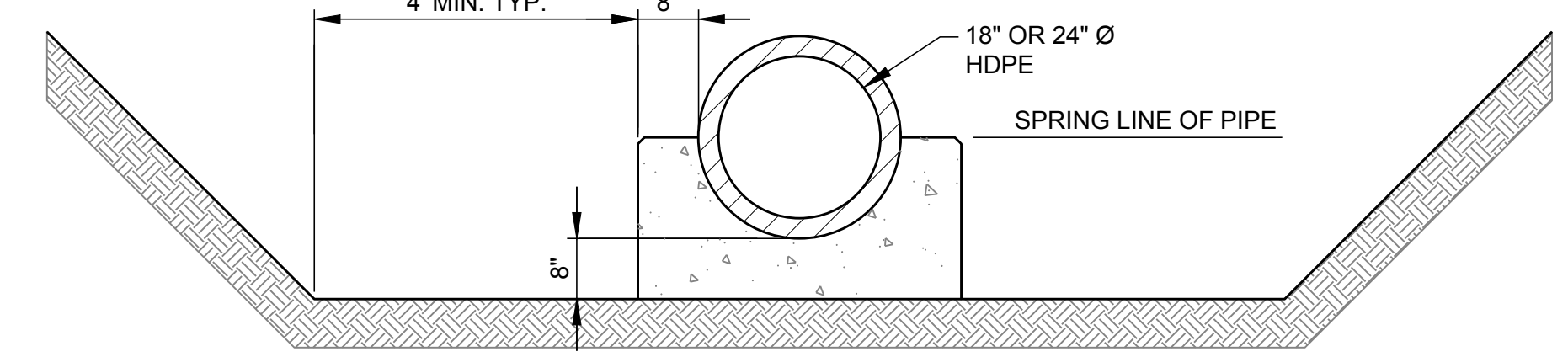
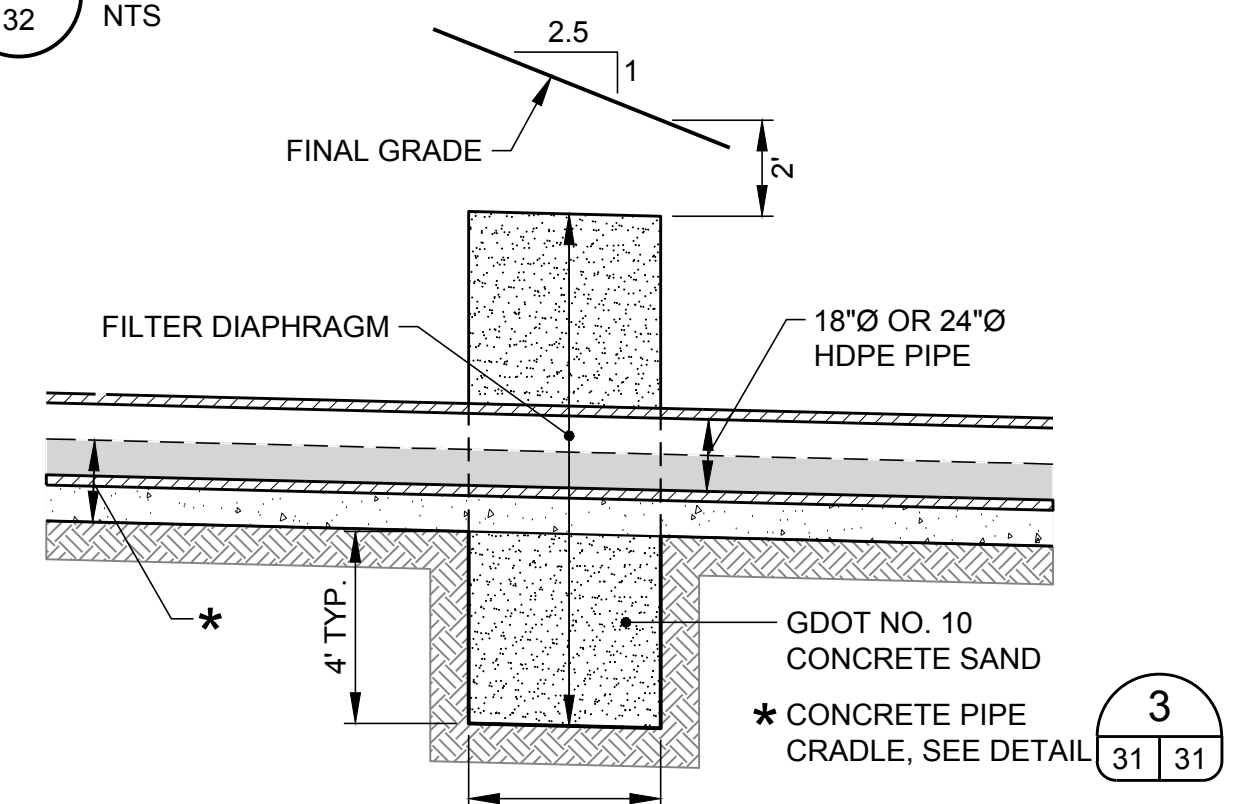
OUTSIDE DIA. PIPE	VARIABLE DIMENSIONS (HDPE DR26 PIPE)							WT. LBS.	BASE AREA	CU. YDS. CONC.
	A	B	C	D	E	F	G			
18"	3'-5"	2'-4"	3'-4 1/2"	2'-0"	1'-5"	4'-10"	2'-0"	1783	8.30	0.43
24"	4'-0"	2'-9"	3'-11"	2'-7"	1'-8"	5'-11"	2'-4 1/2"	2063	11.90	0.51
36"	4'-8"	3'-5"	5'-0"	3'-8"	2'-4"	7'-11"	3'-3 1/2"	4060	19.60	1.00



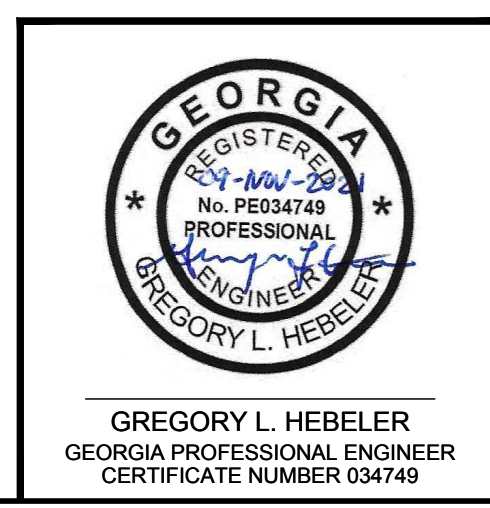
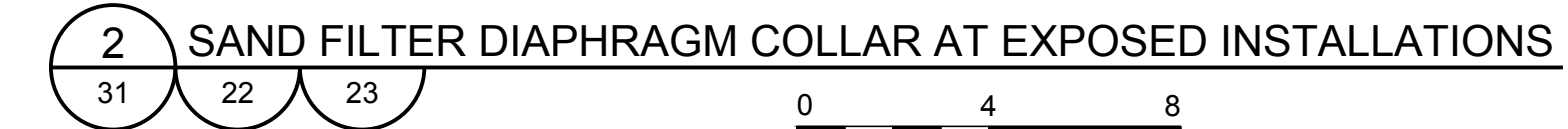
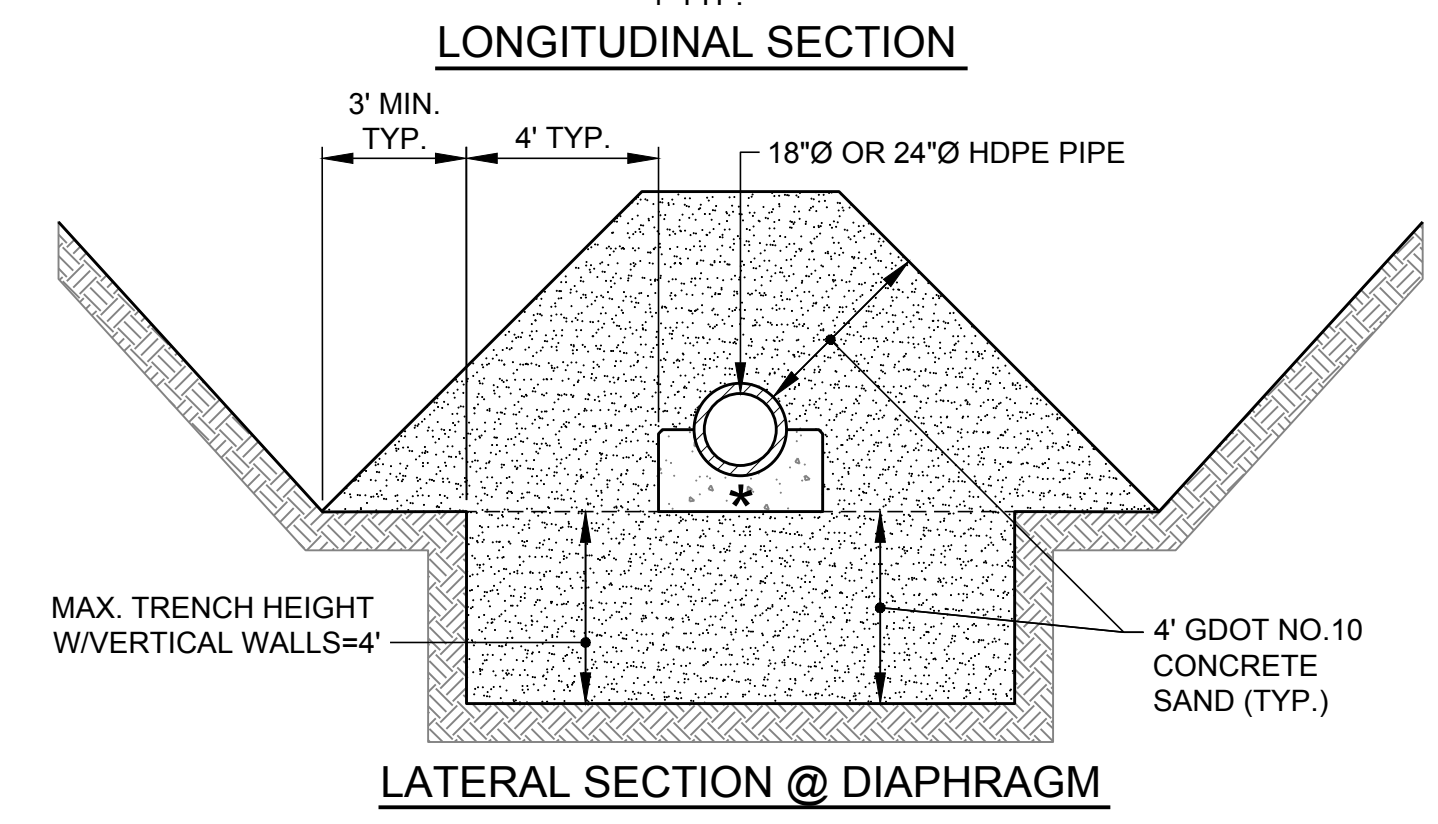
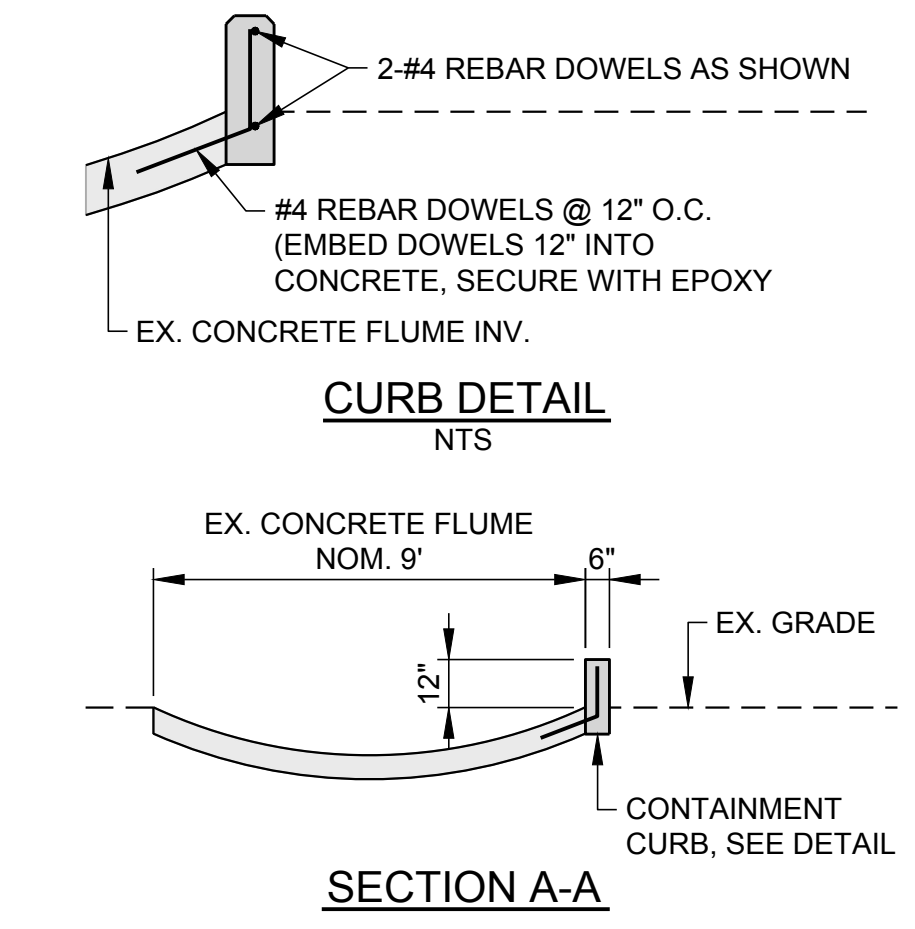
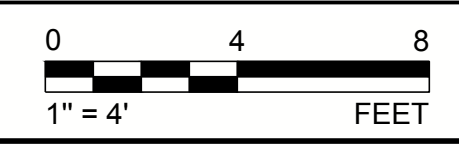
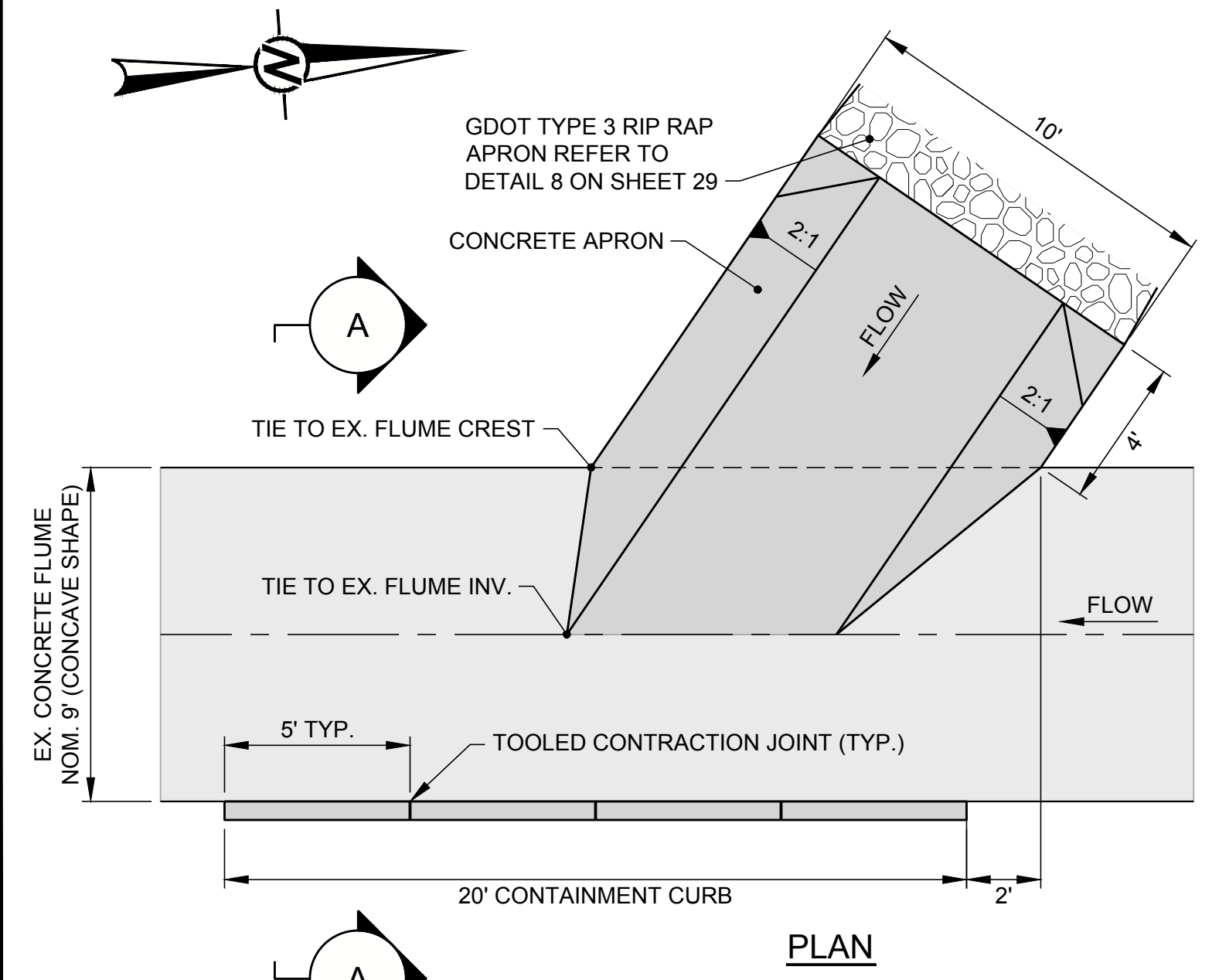
VERTICAL HEADWALL DETAIL



- NOTES**
- ALL CONCRETE TO BE 4000 PSI. ALL REINFORCEMENT SHALL BE GRADE 60.
 - ALL EXPOSED EDGES SHALL HAVE A MINIMUM ONE INCH CHAMFER.
 - REBAR SHALL HAVE A 3 INCH CONCRETE COVER WHEN POURED AGAINST GROUND SURFACE AND A 2 INCH CONCRETE COVER WHEN POURED AGAINST FORMS.
 - ON UNEXPOSED JOINTS CLOSED CELL ROUND BUTYL CORD 1/4 INCH LARGER THAN THE JOINT AS MEASURED IN THE FIELD, SHALL BE INSTALLED.



**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



CLIENT
GEORGIA POWER COMPANY

PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
**AP-3/4 SURFACE WATER MANAGEMENT DETAILS -
SHEET 2 OF 5**

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MMM	2021-NOV
DESIGNED	GLH
PREPARED	RMS
CHECKED	LS
REVIEWED / APPROVED	GLH

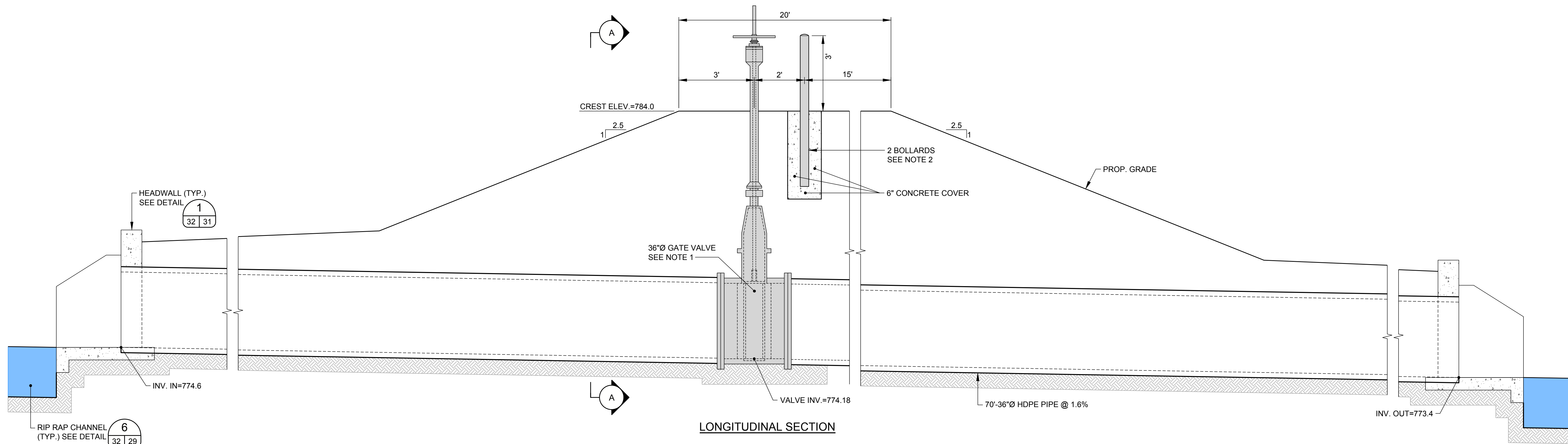
PROJECT NO.
1777449

REV.
0

SHEET
31

Path: \\atlantafacstaff\Southern Company\1777449 Plant McDonough Permitting\AP-3&4-AP-2\AP-3&4\PRODUCTION\1 - File Name: 1777449 06-ET-AL PLAN-SEC-DET.dwg

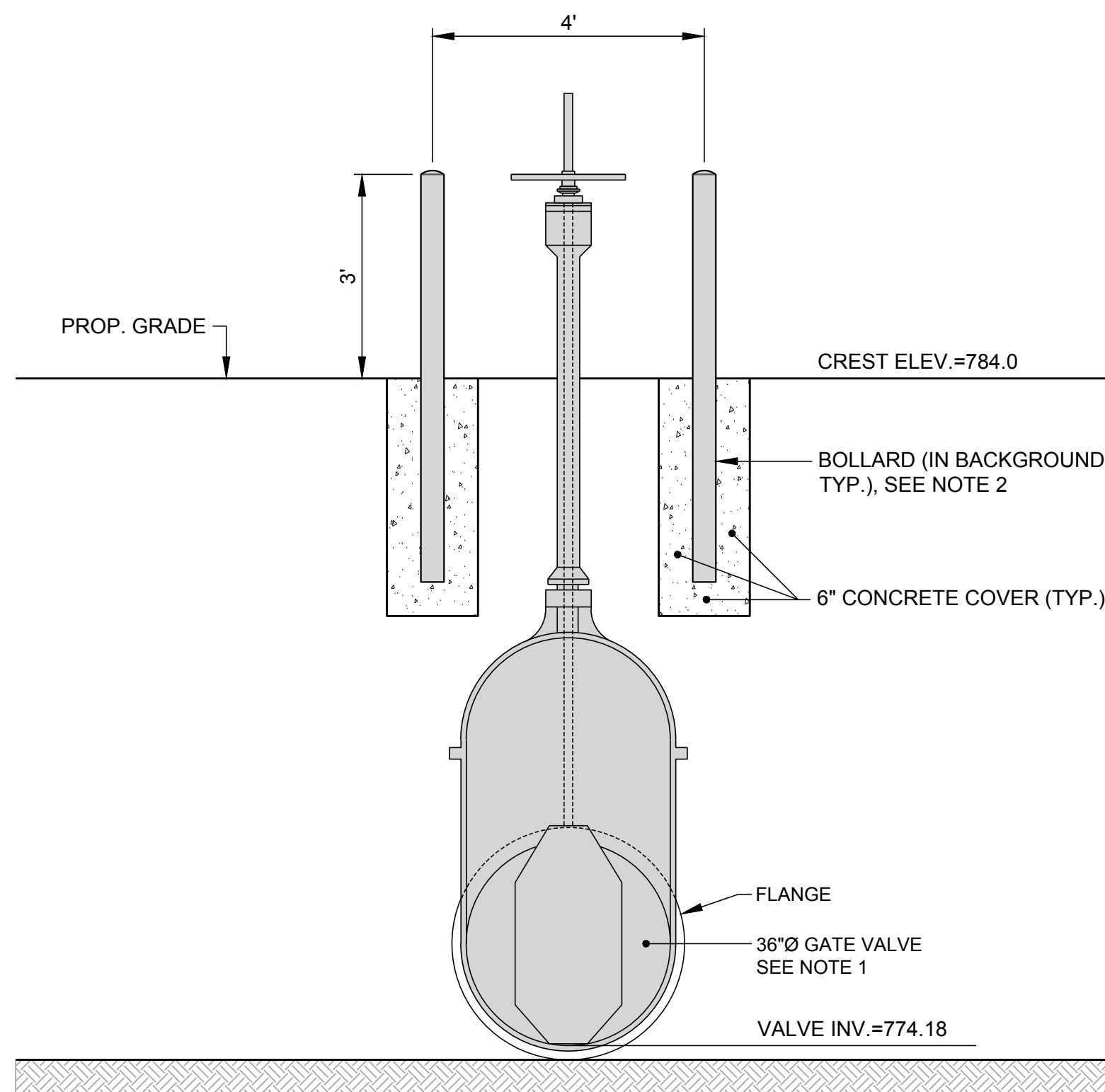
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LONGITUDINAL SECTION

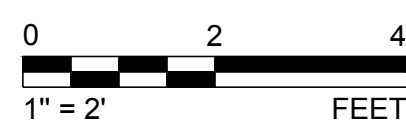
NOTE

- GATE VALVE SHALL BE A MUELLER CO. A-2361 D.I. RESILIENT WEDGE GATE VALVES - FL. X FL. OR EQUIVALENT MEETING ALL ANSI/AWWA C515 STANDARDS. INSTALLED VALVE TO BE PRESSURE TESTED IN CLOSED POSITION IN CONJUNCTION WITH TESTING OF HDPE PIPES PER THE PIPE TESTING REQUIREMENTS.
- TWO BOLLARDS SPACED AT 4 FEET. EACH SHALL BE A 6 FOOT LONG, 4 INCH DIAMETER STAINLESS STEEL PIPE, FILLED WITH CONCRETE, AND BURIED 3 FEET IN CONCRETE, WITH A 6 INCH COVER.
- THE ENTIRETY OF THE 36-INCH HDPE PIPING SYSTEM WILL BE PRESSURE TESTED AND SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM F 2164, FIELD LEAK TESTING OF POLYETHYLENE PRESSURE PIPING SYSTEMS USING HYDROSTATIC PRESSURE. THE HDPE PIPE SHALL BE FILLED WITH WATER, RAISED TO TEST PRESSURE AND ALLOWED TO STABILIZE. THE TEST PRESSURE SHALL BE 5 PSI WHICH IS 1.5 TIMES THE MAXIMUM OPERATING PRESSURE AT THE LOWEST POINT IN THE SYSTEM. THE PIPE SHALL PASS IF THE FINAL PRESSURE IS WITH 5% OF THE TEST PRESSURE FOR 1 HOUR. FOR SAFETY REASONS, HYDROSTATIC TESTING ONLY WILL BE USED.



ELEVATION-SECTION A-A

1 CROSSOVER STRUCTURE DETAIL
32 22



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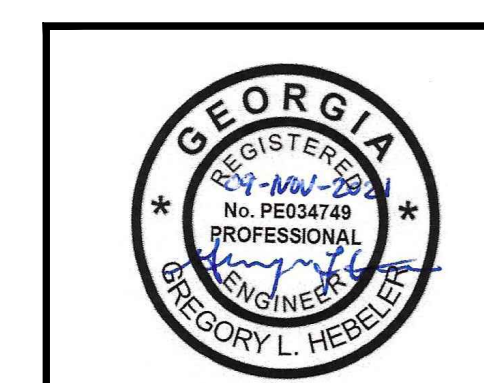
CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
AP-3/4 SURFACE WATER MANAGEMENT DETAILS -
SHEET 3 OF 5

CONSULTANT	YYYY-MMM	2021-NOV
DESIGNED		GLH
PREPARED		RMS
CHECKED		LS
REVIEWED / APPROVED		GLH

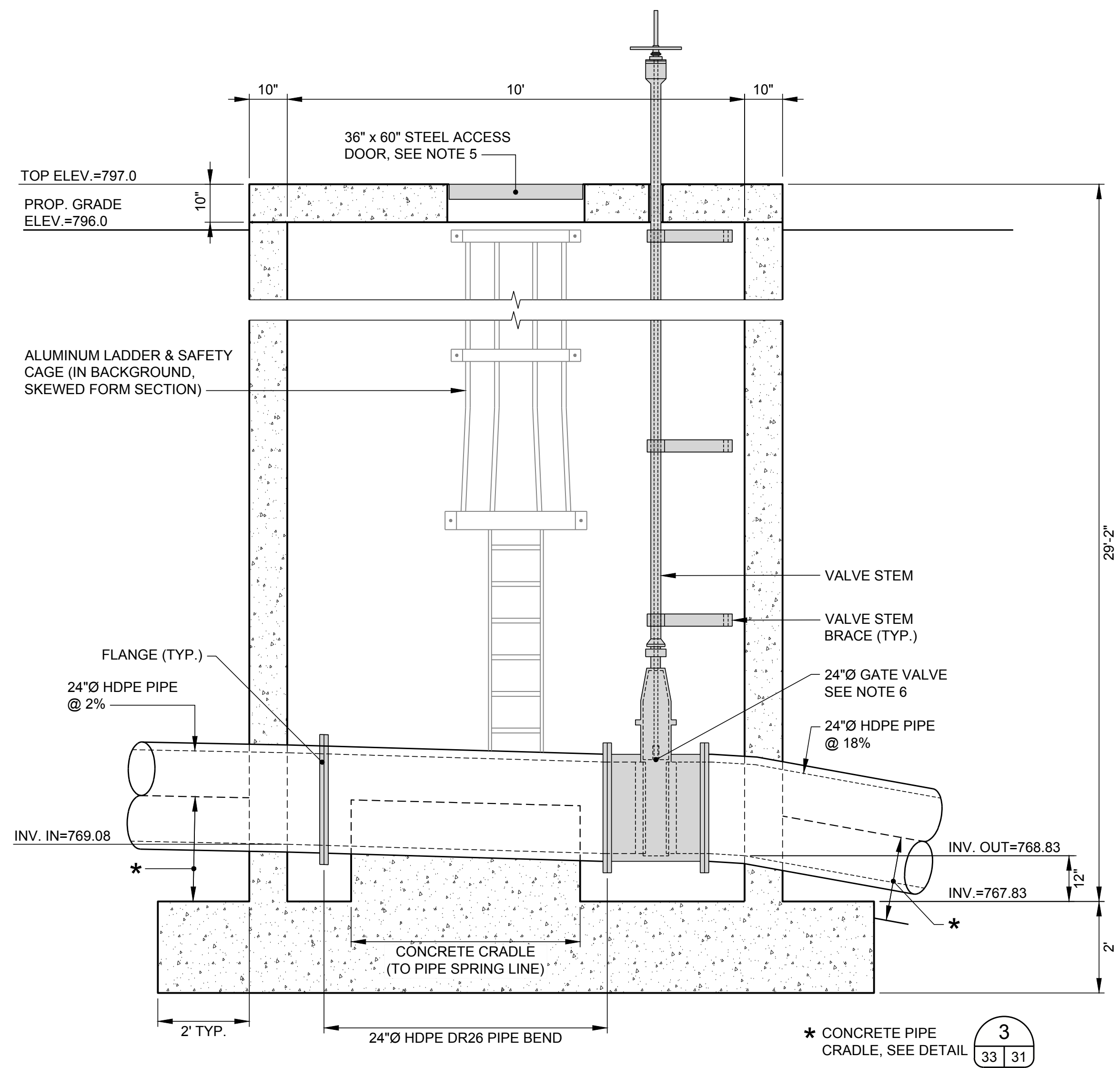


GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

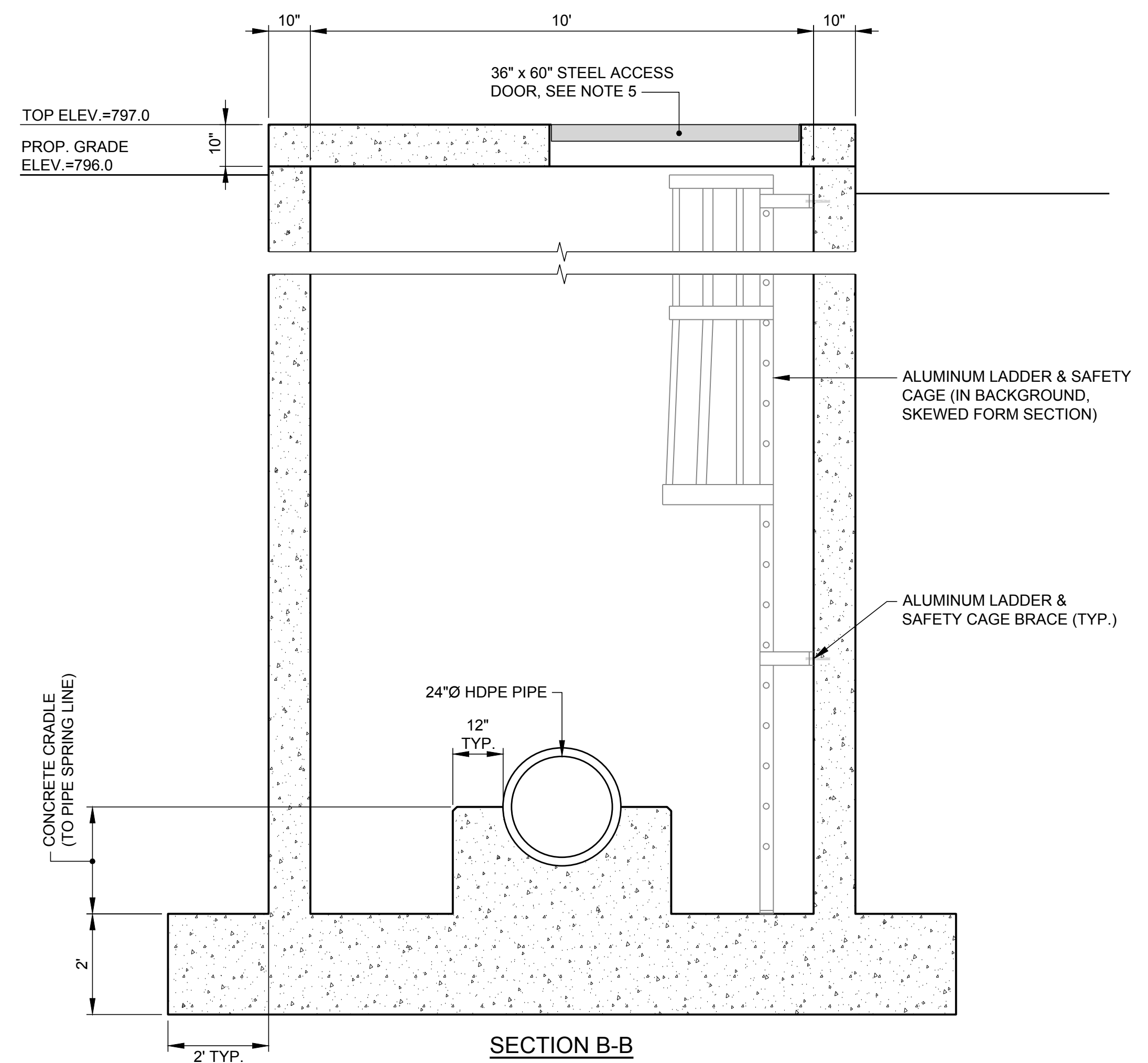
PROJECT NO.
1777449

REV.
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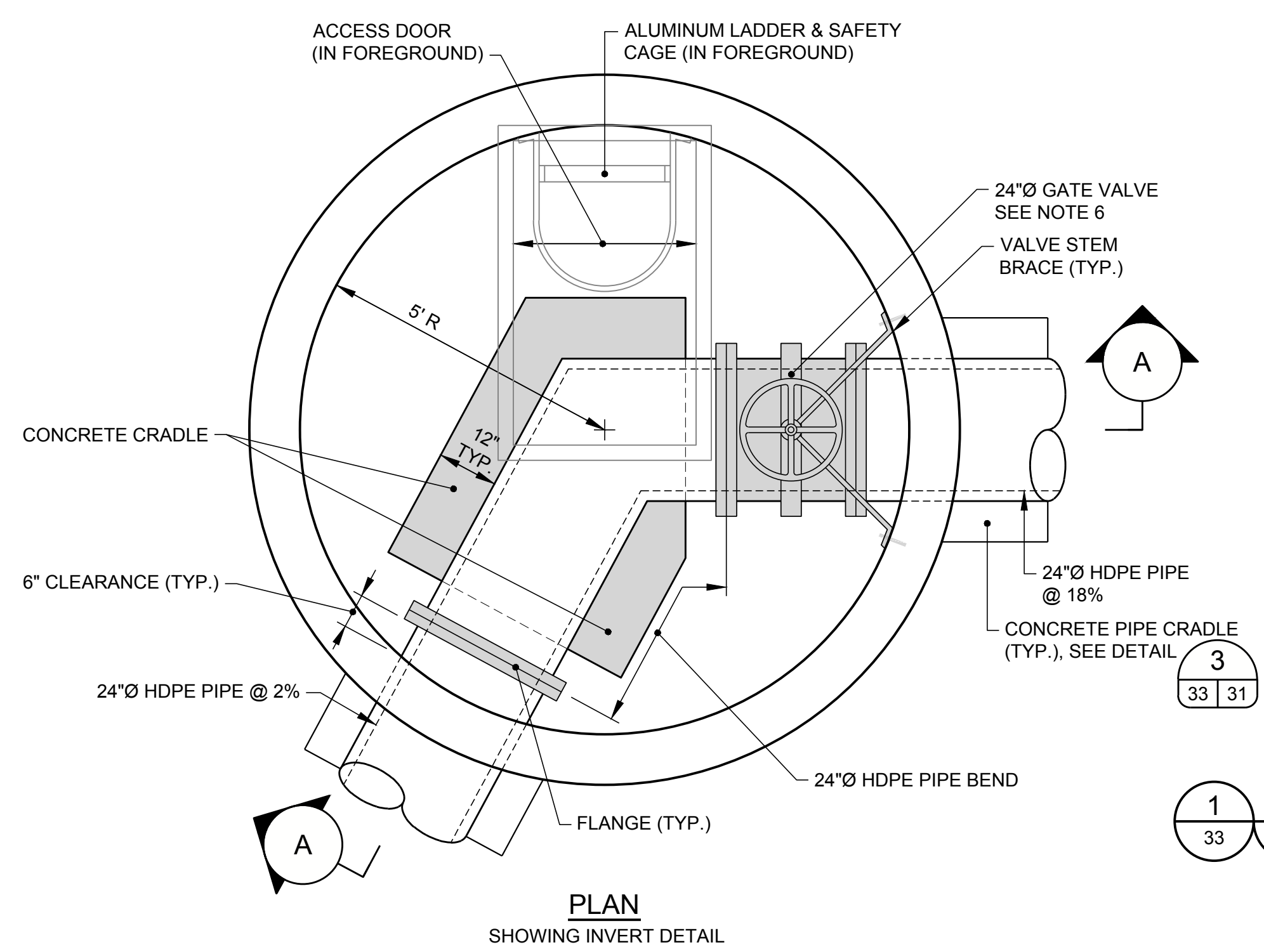
SHEET
32



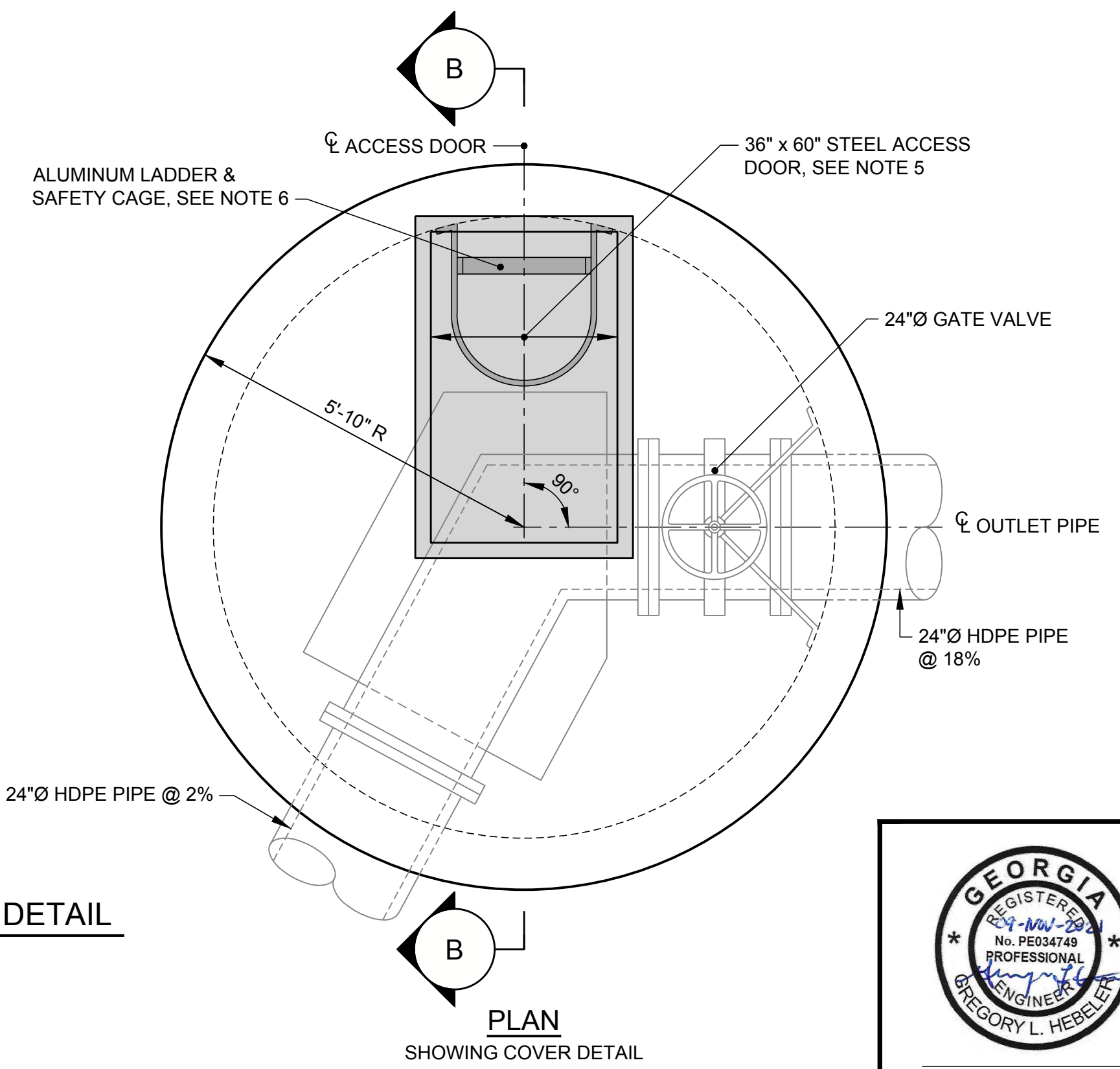
SECTION A-A



SECTION B-B

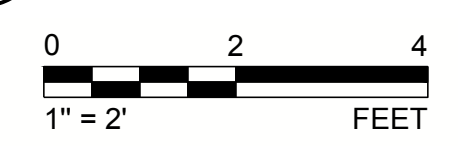


PLAN
SHOWING INVERT DETAIL



PLAN
SHOWING COVER DETAIL

1 VALVE VAULT STRUCTURE DETAIL



NOTES

1. ALL CONCRETE TO BE 4000 PSI. ALL REINFORCEMENT SHALL BE GRADE 60.
2. ALL EXPOSED EDGES SHALL HAVE A MINIMUM ONE INCH CHAMFER.
3. REBAR SHALL HAVE A 3 INCH CONCRETE COVER WHEN POURED AGAINST GROUND SURFACE AND A 2 INCH CONCRETE COVER WHEN POURED AGAINST FORMS.
4. ON UNEXPOSED JOINTS CLOSED CELL ROUND BUTYL CORD 1/4 INCH LARGER THAN THE JOINT AS MEASURED IN THE FIELD, SHALL BE INSTALLED.
5. STEEL ACCESS DOOR AS SPECIFIED BY "HALLIDAY PRODUCTS", MODEL S1S3660 (36"x60"), OR APPROVED EQUIVALENT.
6. GATE VALVE SHALL BE A MUELLER CO. A-2361 D.I. RESILIENT WEDGE GATE VALVES - FL. X FL. OR EQUIVALENT MEETING ALL ANSI/AWWA C515 STANDARDS. INSTALLED VALVE TO BE PRESSURE TESTED IN CLOSED POSITION IN CONJUNCTION WITH TESTING OF HDPE PIPES PER THE PIPE TESTING REQUIREMENTS.
7. THE ENTIRETY OF THE 24-INCH HDPE PIPING SYSTEM WILL BE PRESSURE TESTED AND SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM F 2164, FIELD LEAK TESTING OF POLYETHYLENE PRESSURE PIPING SYSTEMS USING HYDROSTATIC PRESSURE. THE HDPE PIPE SHALL BE FILLED WITH WATER, RAISED TO TEST PRESSURE AND ALLOWED TO STABILIZE. THE TEST PRESSURE SHALL BE 14 PSI WHICH IS 1.5 TIMES THE MAXIMUM OPERATING PRESSURE AT THE LOWEST POINT IN THE SYSTEM. THE PIPE SHALL PASS IF THE FINAL PRESSURE IS WITH 5% OF THE TEST PRESSURE FOR 1 HOUR. FOR SAFETY REASONS, HYDROSTATIC TESTING ONLY WILL BE USED.

FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION

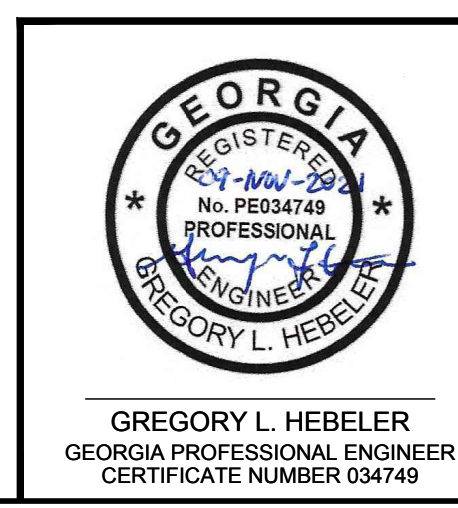
CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
AP-3/4 SURFACE WATER MANAGEMENT DETAILS -
SHEET 4 OF 5

CONSULTANT	DATE	REVISION
	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH



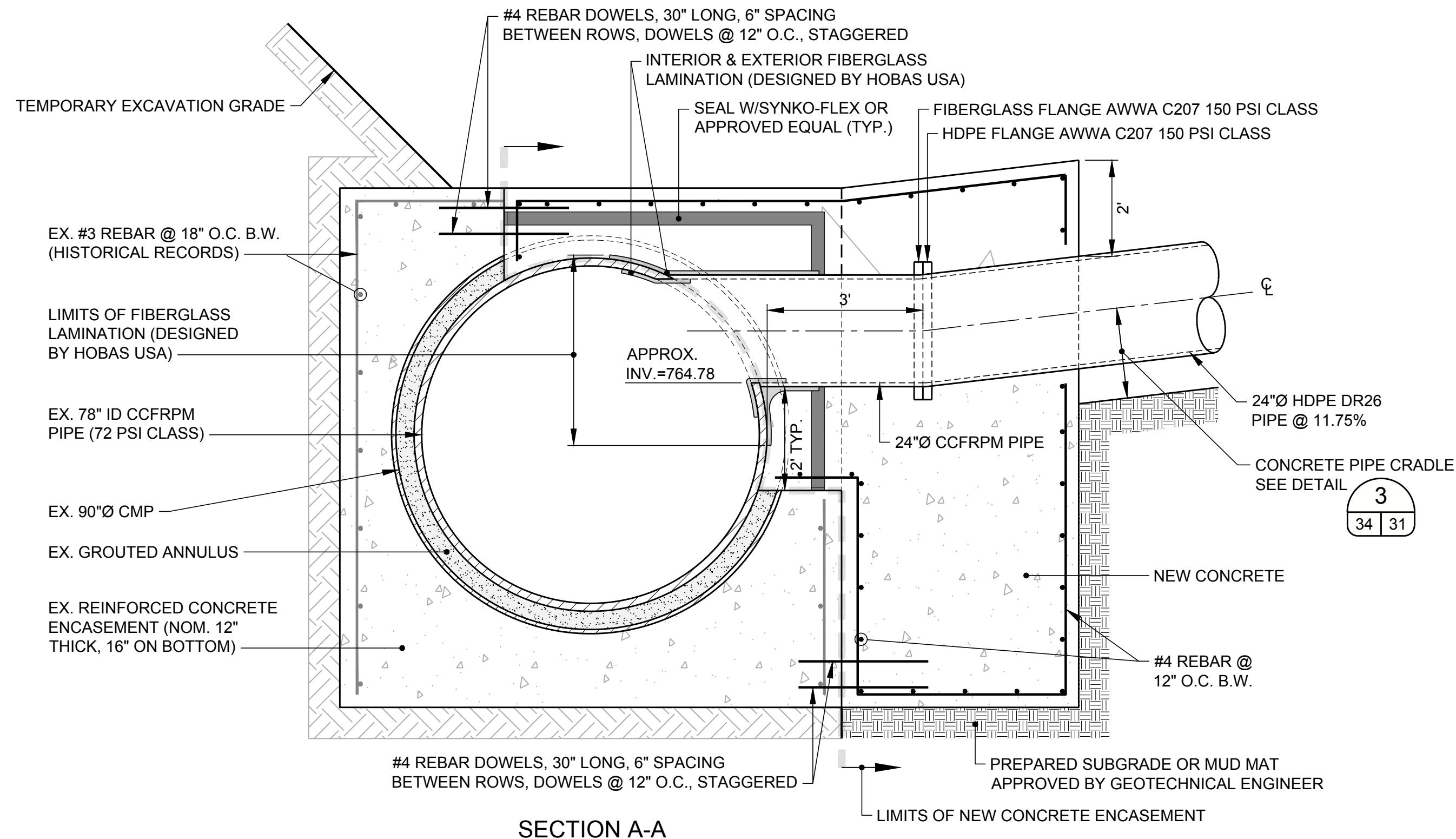
PROJECT NO.
1777449

REV.
0

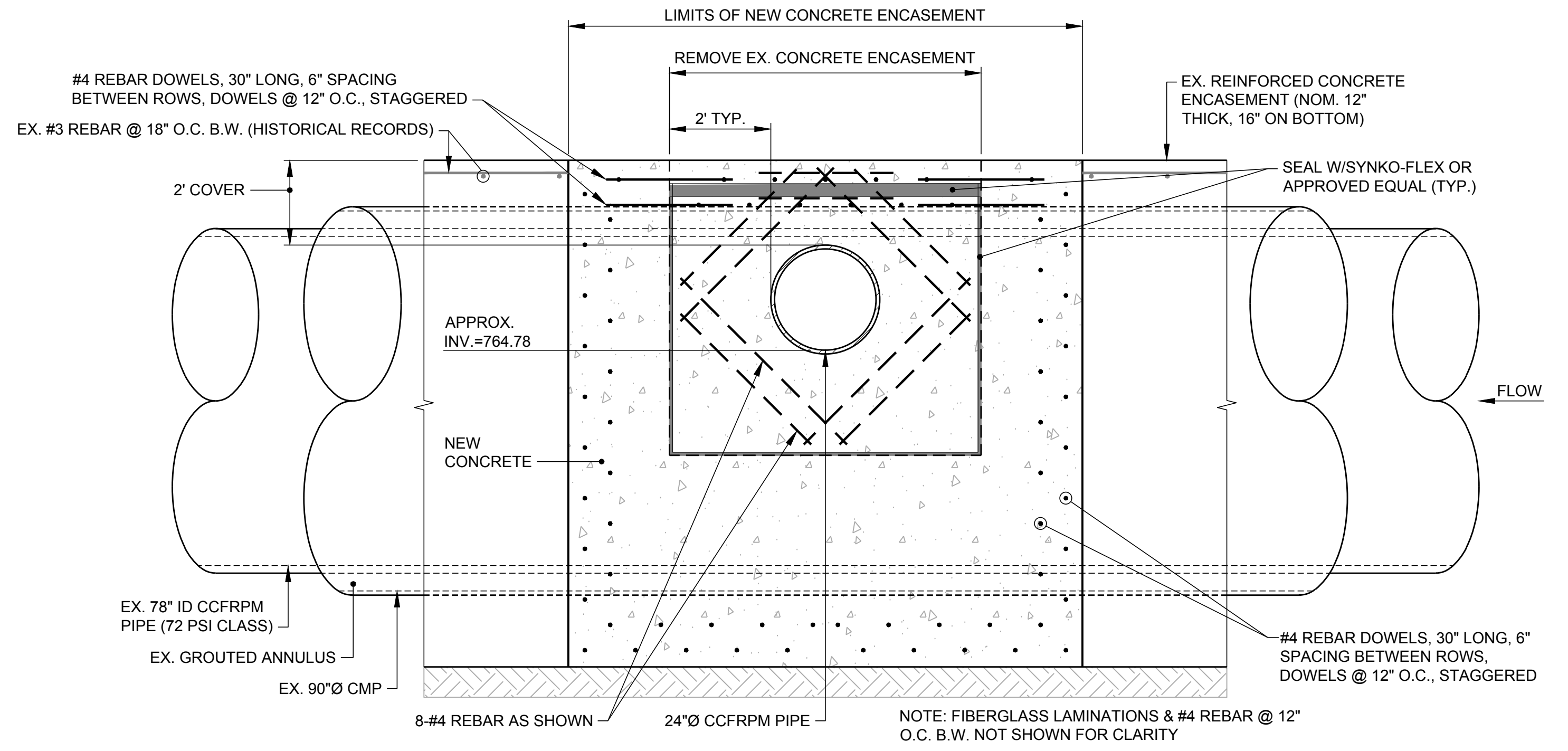
SHEET
33

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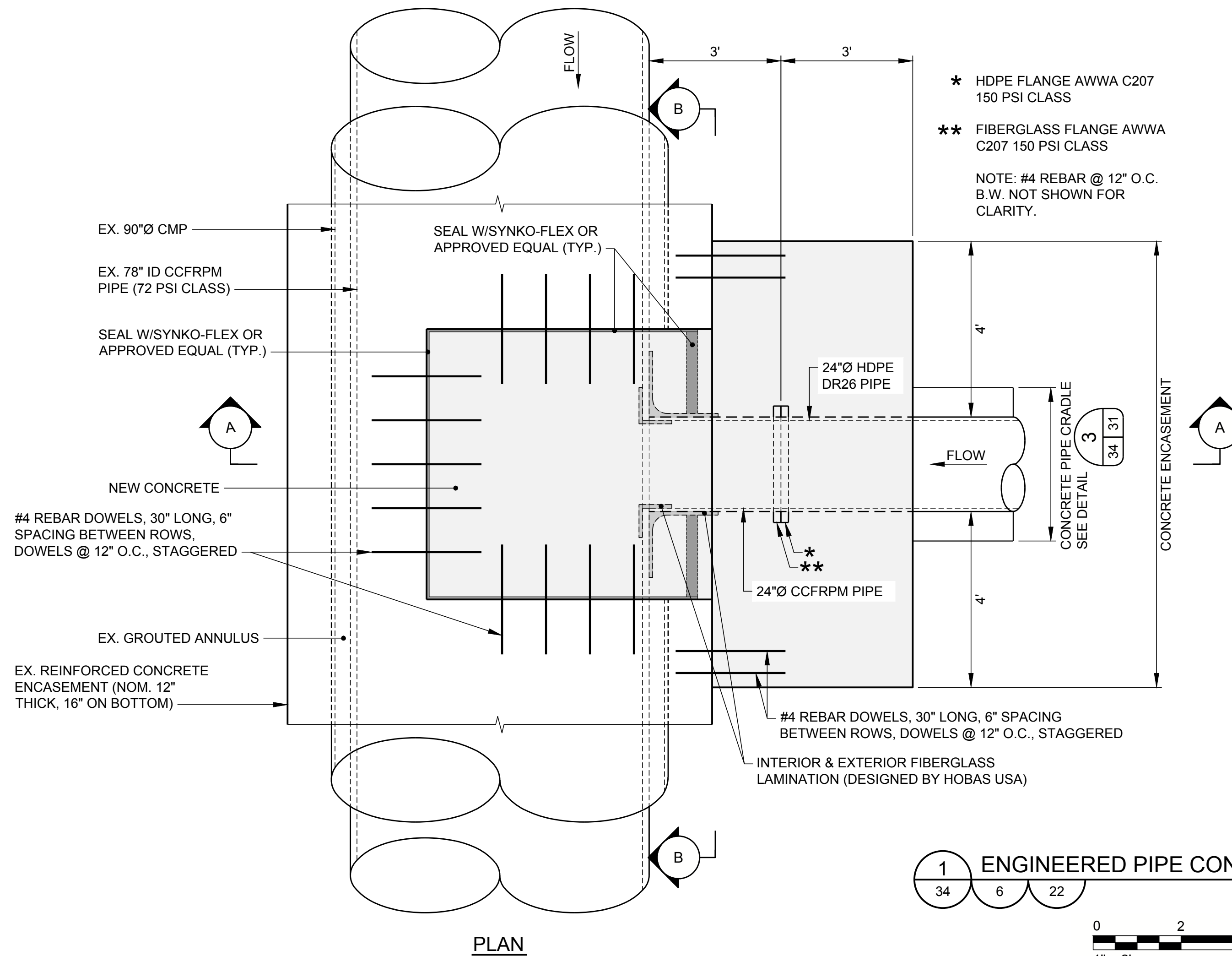
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D 11



SECTION A-A

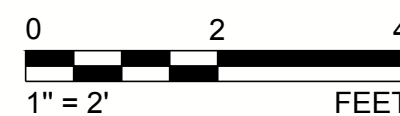


SECTION/ELEVATION B-B



PLAN

1 ENGINEERED PIPE CONNECTION DETAIL



NOTES

- ALL CONCRETE TO BE 4000 PSI. ALL REINFORCEMENT SHALL BE GRADE 60.
- REBAR SHALL HAVE A 3 INCH CONCRETE COVER WHEN POURED AGAINST GROUND SURFACE AND A 2 INCH CONCRETE COVER WHEN POURED AGAINST FORMS.
- ON UNEXPOSED JOINTS CLOSED CELL ROUND BUTYL CORD 1/4 INCH LARGER THAN THE JOINT AS MEASURED IN THE FIELD, SHALL BE INSTALLED.
- 24 INCH DIAMETER CCFRPM (72 PSI CLASS) PIPE BY HOBAS USA TO MATCH EXISTING PIPE SYSTEM. ONE END TO BE RADIUSUED TO MATCH THE OUTSIDE DIAMETER OF THE EXISTING 78 INCH DIAMETER CCFRPM (72 PSI CLASS) AND LAMINATED TO THE OUTSIDE PRIOR TO PENETRATING. THE OTHER END IS TO BE FLANGED TO MEET AWWA C207 AND 150 PSI CLASS.
- THE ENTIRETY OF THE 24 INCH HDPE PIPING SYSTEM WILL BE PRESSURE TESTED AND SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM F 2164, FIELD LEAK TESTING OF POLYETHYLENE PRESSURE PIPING SYSTEMS USING HYDROSTATIC PRESSURE. THE HDPE PIPE SHALL BE FILLED WITH WATER, RAISED TO TEST PRESSURE AND ALLOWED TO STABILIZE. THE TEST PRESSURE SHALL BE 14 PSI WHICH IS 1.5 TIMES THE MAXIMUM OPERATING PRESSURE AT THE LOWEST POINT IN THE SYSTEM. IN ACCORDANCE WITH SECTION 9.8, THE PIPE SHALL PASS IF THE FINAL PRESSURE IS WITH 5% OF THE TEST PRESSURE FOR 1 HOUR. FOR SAFETY REASONS, HYDROSTATIC TESTING ONLY WILL BE USED.
- CONNECTION LOCATION TO BE FIELD ADJUSTED TO AVOID PIPE JOINTS AS REQUIRED.
- AFTER 24 INCH DIAMETER CCFRPM CONNECTION HAS BEEN MADE THE EXISTING 78 INCH CCFRPM WILL BE CUT TO MATCH INSIDE DIAMETER OF THE 24 INCH CCFRPM FROM THE INSIDE TO CONNECT. INTERIOR LAMINATION TO BE COMPLETED FOR NEAT FINISH AND SMOOTH TRANSITION.
- LAMINATION DETAILS, SPECIFICATIONS AND SHOP DRAWINGS TO BE SUPPLIED BY HOBAS USA.

FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

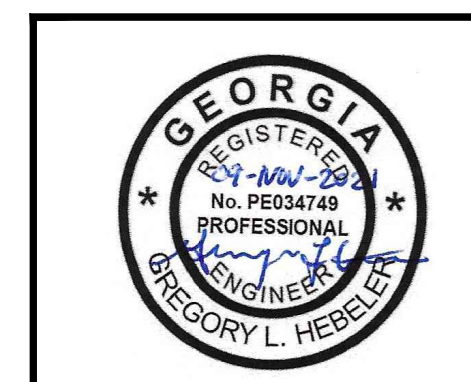
TITLE
AP-3/4 SURFACE WATER MANAGEMENT DETAILS -
SHEET 5 OF 5

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO.
1777449

REV.
0

SHEET
34



GREGORY L. HEBEL
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

REFERENCES

- SOLAR LAYOUT INFORMATION ON THIS SHEET, SOURCED FROM SOUTHERN COMPANY DRAWING SK-0001.

LEGEND

- EXISTING CONTOURS (MARCH 2018)
- PROPERTY BOUNDARY MARKERS/LIMITS
- FINAL CLOSURE CONTOURS
- CLOSURE CONTOURS OUTSIDE LIMITS OF CCR
- EXISTING OVERHEAD ELECTRIC LINES IN ASH POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
- EXISTING GAS LINE
- PERMIT BOUNDARY AP-2, AP-3/4
- FINAL LIMITS OF LINER

NOTES

- THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."
- FINAL CLOSURE CONTOURS (PURPLE) DELINEATE FINAL LIMITS OF ASH.
- CLOSURE CONTOURS OUTSIDE LIMITS OF CCR (GREEN) DELINEATE AREAS WHERE ANY EXISTING ASH IS TO BE COMPLETELY REMOVED.

REFERENCES

- SOLAR LAYOUT INFORMATION ON THIS SHEET, SOURCED FROM SOUTHERN COMPANY DRAWING SK-0001 AND SK-0002

SYSTEM SUMMARY	
PROJECT LOCATION	ATLANTA, GA
LATITUDE, LONGITUDE	33.85, -84.45
GRID VOLTAGE	TO BE DETERMINED
DC VOLTAGE	TO BE DETERMINED
MODULE TYPE/WATTAGE	REC 315W
MODULE QTY.	8,424
MODULES PER STRING	18
STRING QTY.	468
INVERTER QTY.	39
MINIMUM DESIGN TEMP.	-10°C
INVERTER	SMA TRIPower 50KW
AC CAPACITY	2.00 MW (40°C, 1 PF)
DC CAPACITY	2.6535
DC/AC RATIO	1.3267
ARRAY ORIENTATION - FIXED TILT	
PITCH (ROW SPACING)	23 FT
TILT	19°
AZIMUTH	0°

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NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY

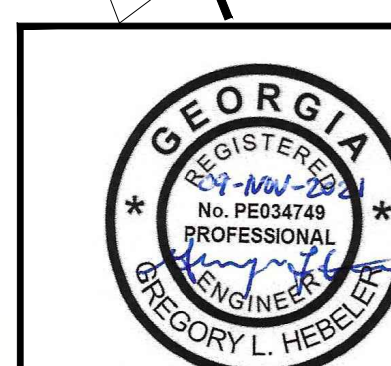


PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

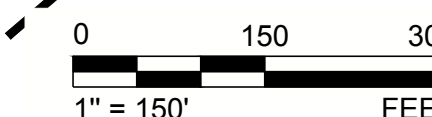
TITLE
**POST CLOSURE SOLAR DEVELOPMENT - OPTION 1
GENERAL ARRANGEMENT 2.00 MWAC / 2.65 MWDC**

CONSULTANT	DATE	REVISION
 MEMBER OF WSP	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	AVR
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. 1777449 REV. 0 SHEET 36A

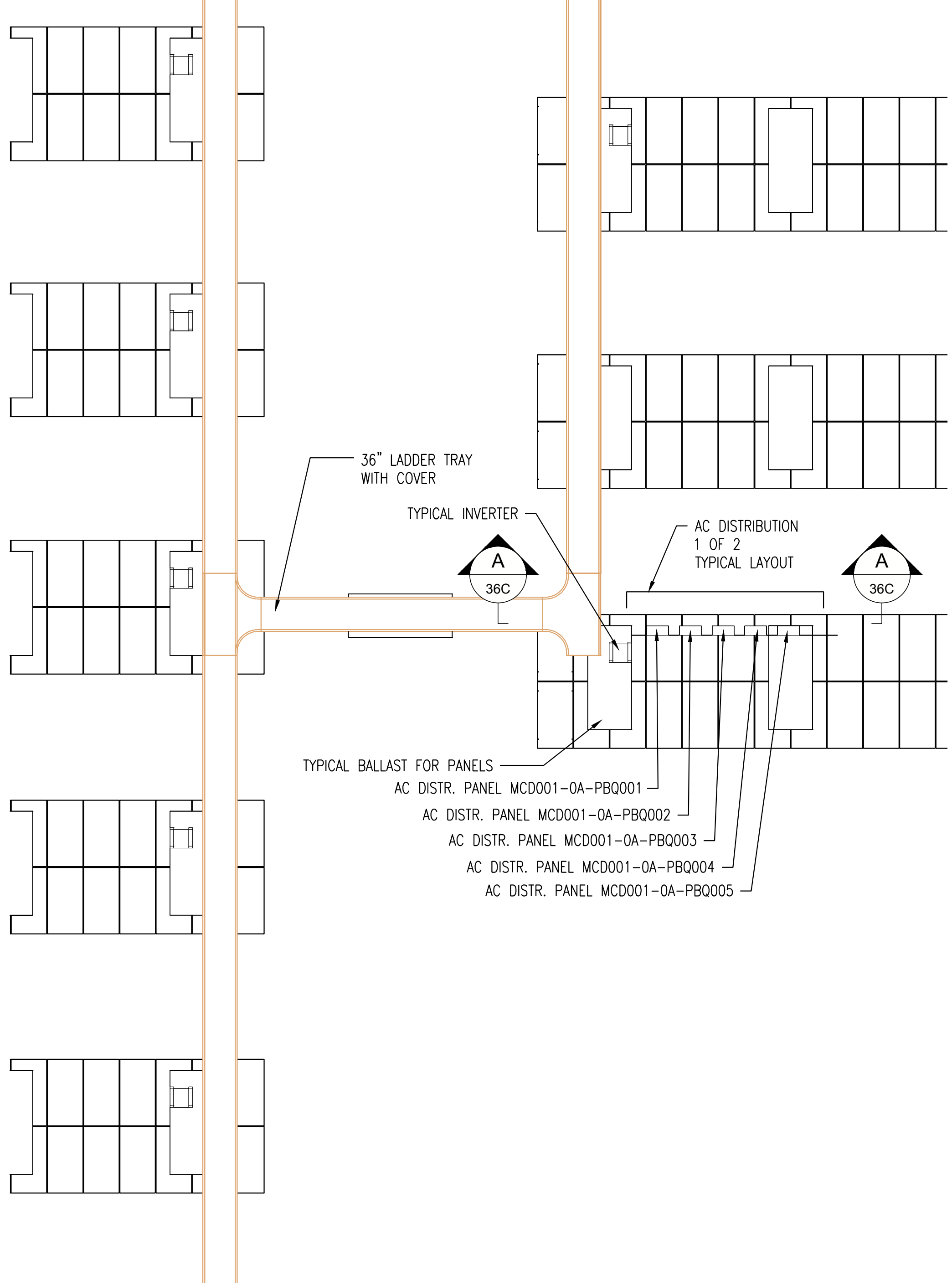


GREGORY L. HEBEL
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

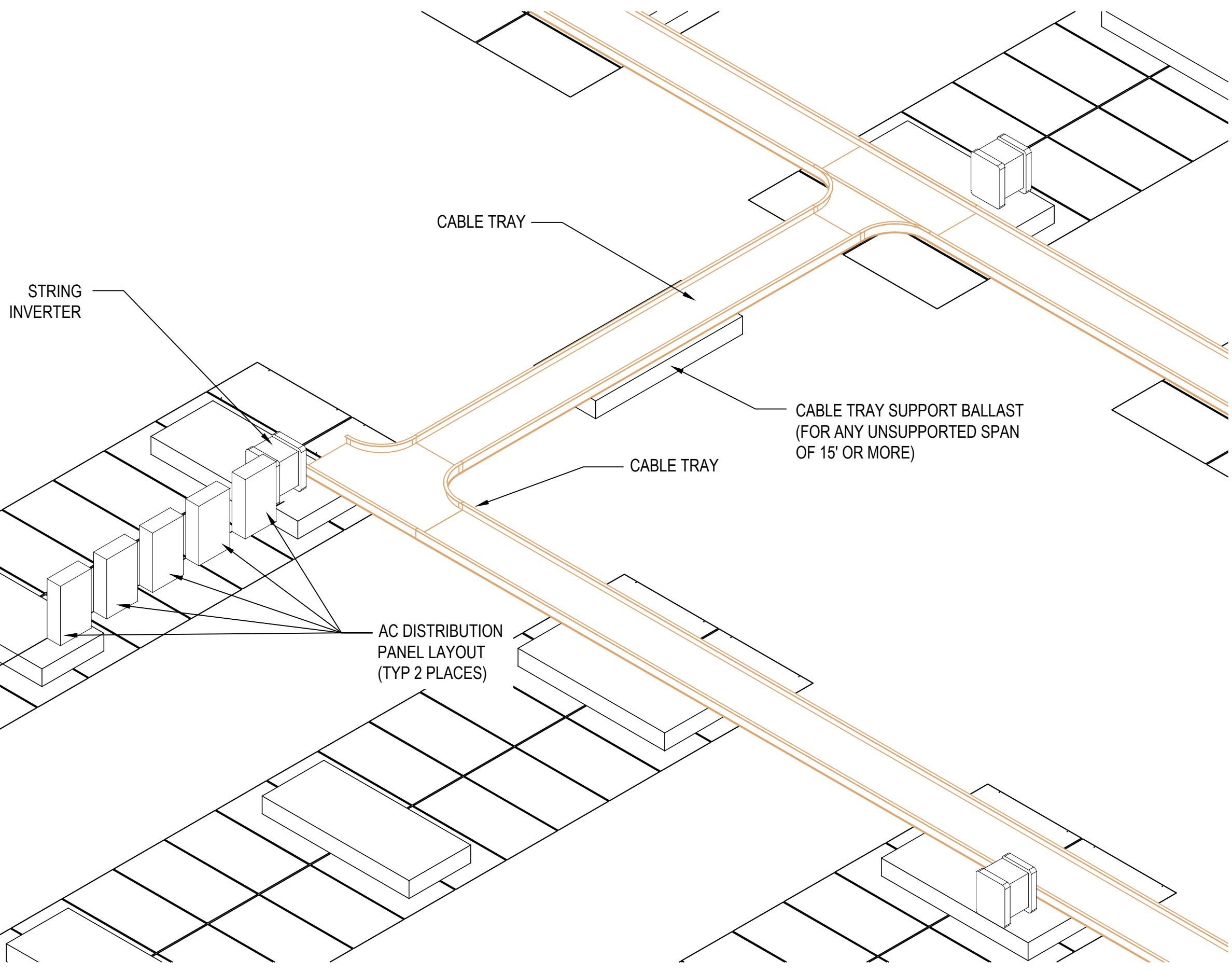


Path: \\atlanta\cadd\Southern Company\1777449 Plant McDonough\Permitting\Solar\Permitting\Production\1 Files\Name: 1777449 36A-36B FUTURE SITE DEVELOPMENT PLAN.dwg

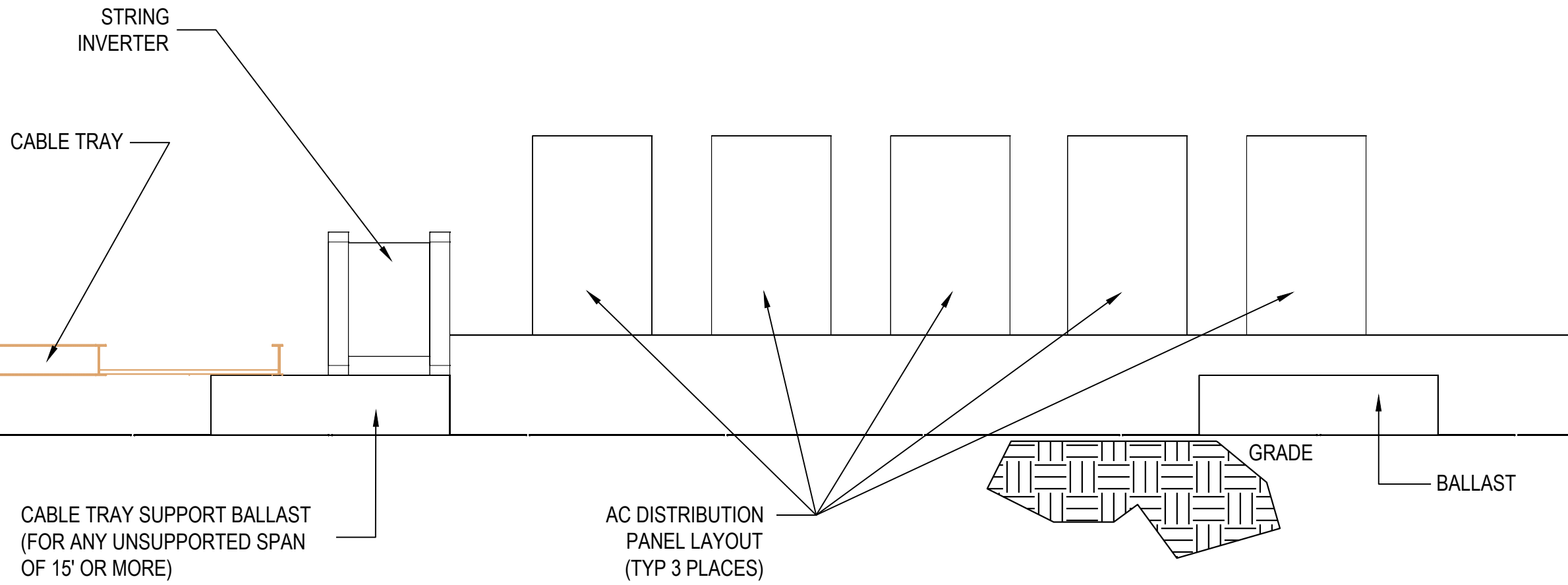
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D



N.T.S. 1 36C TYPICAL AC DISTRIBUTION LAYOUT



N.T.S. 2 36C ISO OF TYPICAL AC DISTRIBUTION LAYOUT (TYPICAL 2 PLACES ON SITE)



N.T.S. A 36C SECTION A

REFERENCES

- SOLAR LAYOUT INFORMATION ON THIS SHEET, SOURCED FROM SOUTHERN COMPANY DRAWING SK-0001 AND SK-0002 AND PRESENTED IN POST-CLOSURE SOLAR DEVELOPMENT EVALUATION, PART B SECTION 5 OF PLANT MCDONOUGH CCR UNIT AP-2, AP-3/4 PERMIT.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

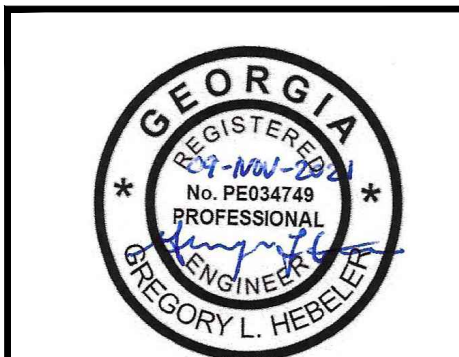
TITLE
**POST CLOSURE SOLAR DEVELOPMENT - OPTION 1
BALLASTED ANCHOR SYSTEM
SECTIONS AND DETAILS - SHEET 1**

CONSULTANT	YYYY-MMM	2021-NOV
DESIGNED		GLH
PREPARED		AVR
CHECKED		LS
REVIEWED / APPROVED		GLH

PROJECT NO.
1777449

REV.
0

SHEET
36C

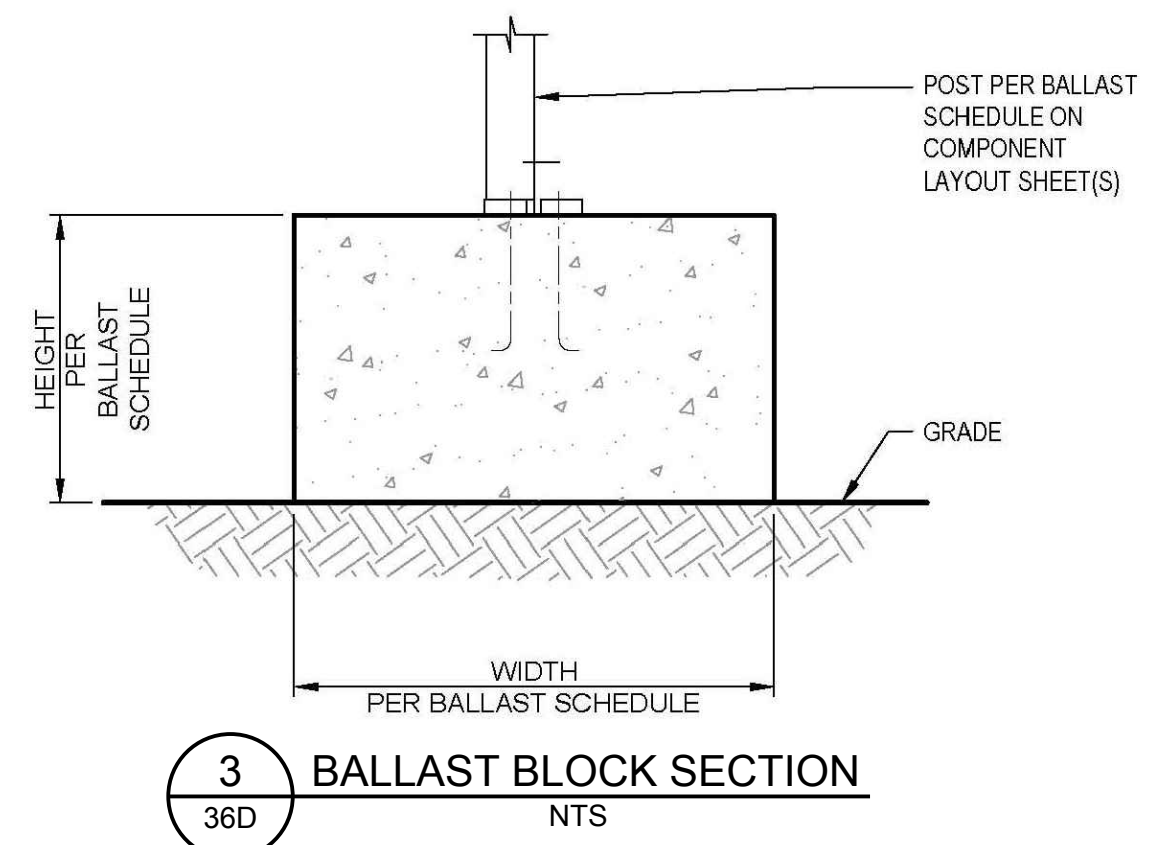
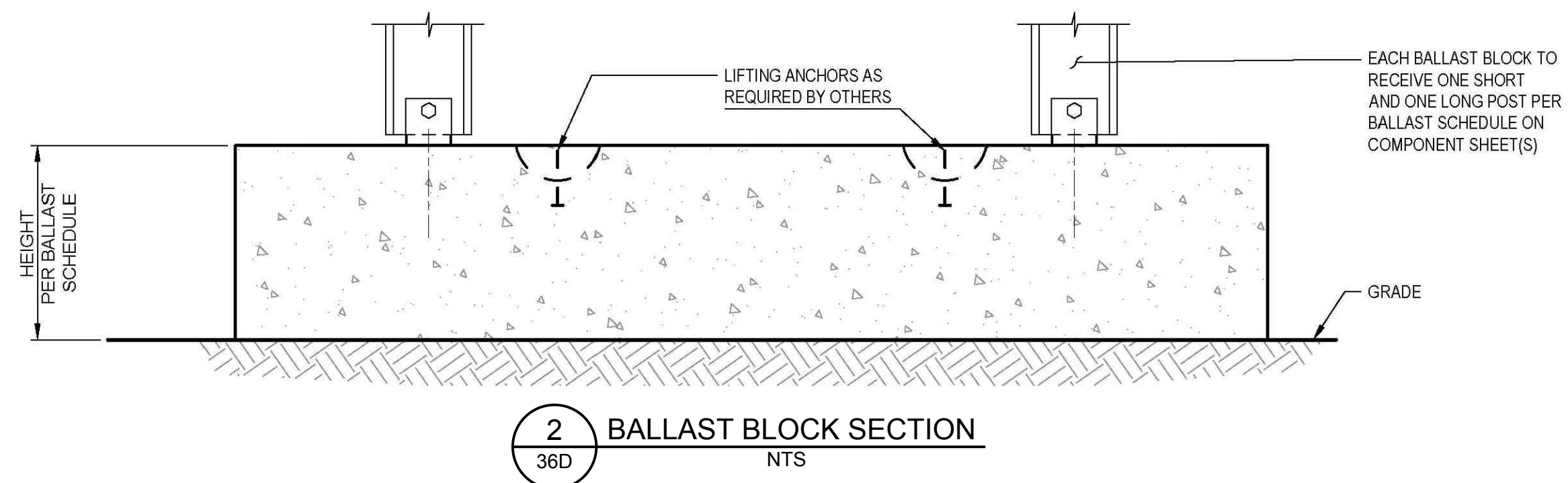
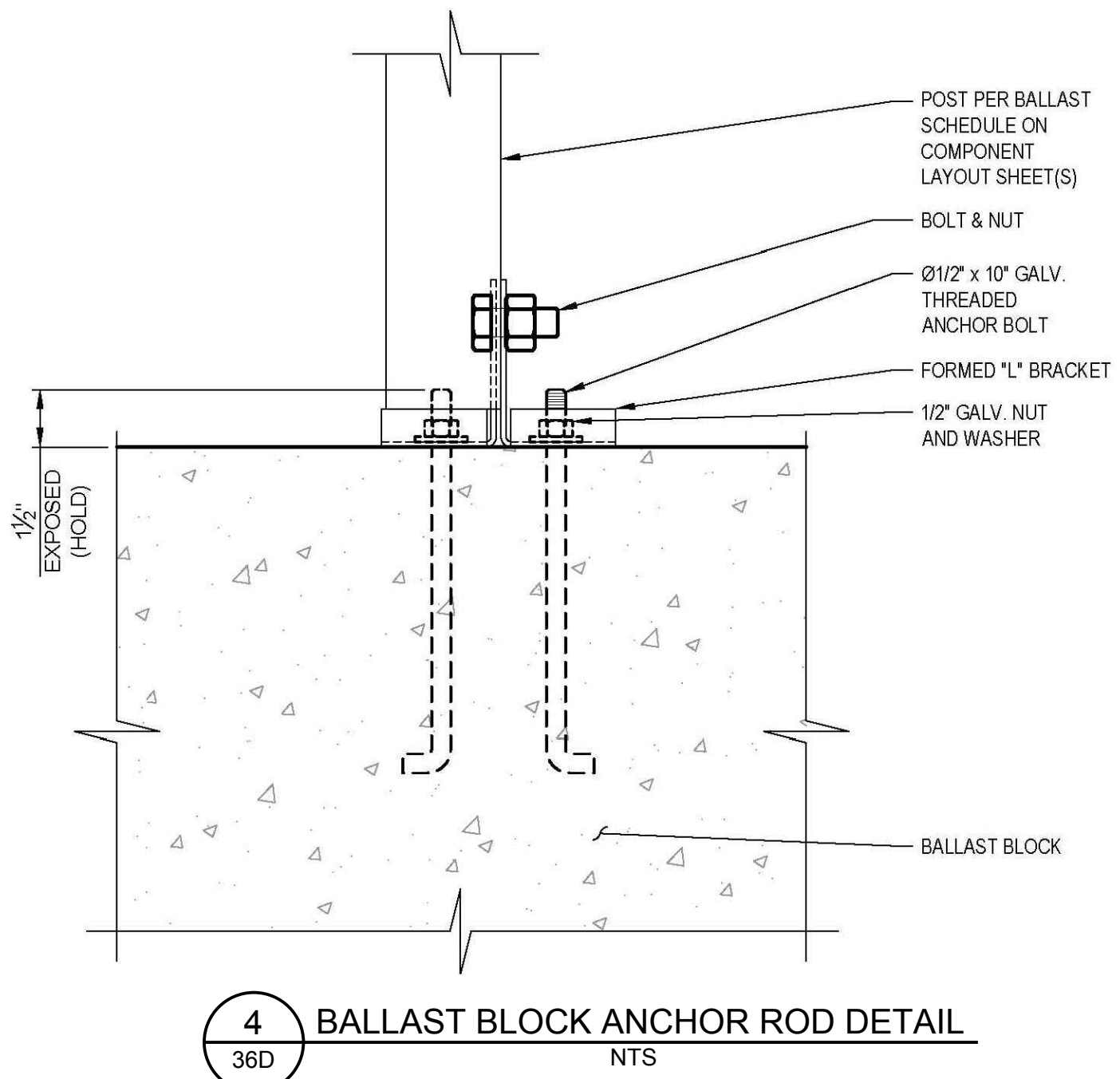
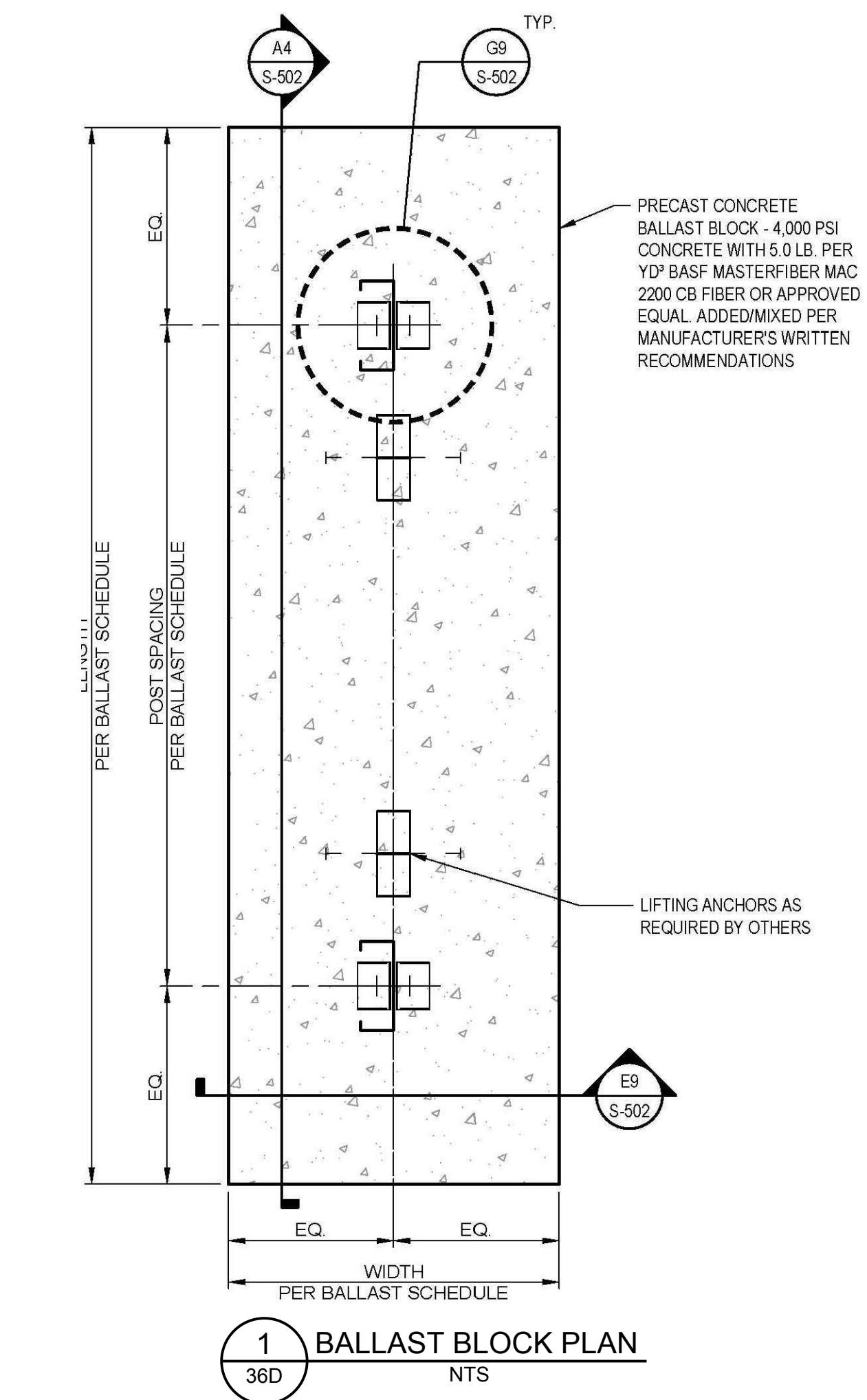


GREGORY L. HEBEL
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749



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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D 11



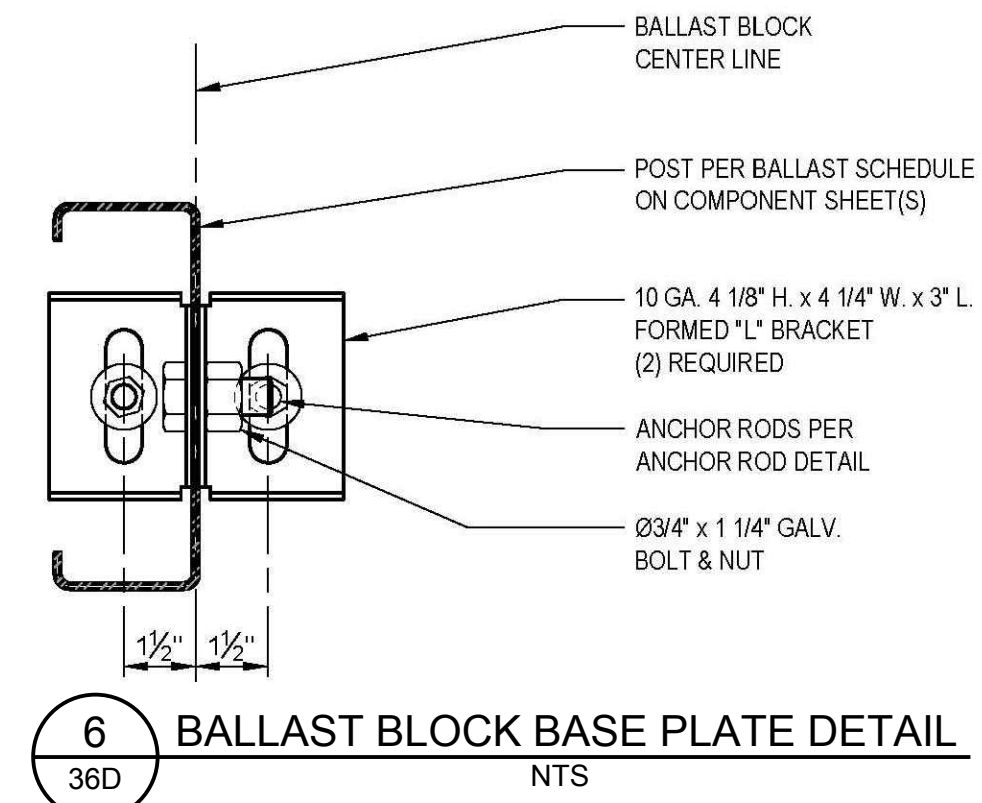
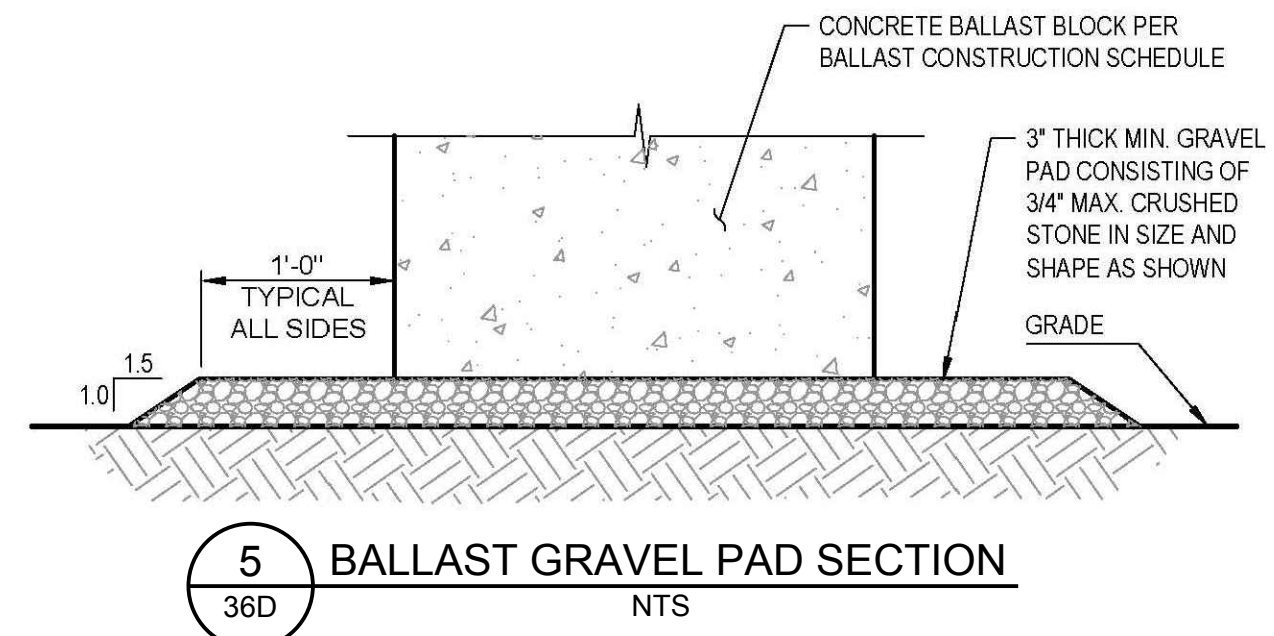
BALLAST BLOCK BASE PLATE DETAIL

TYPE	QUANTITY	LENGTH	WIDTH	HEIGHT	POST SPACING	WEIGHT (≈ LBS.)
A	18	9'-6"	3'-9"	1'-0"	7'-7 1/16"	5344
B	236	9'-6"	3'-7"	1'-0"	7'-7 1/16"	5106
C	548	9'-6"	3'-1"	1'-0"	7'-7 1/16"	4394

BALLAST BLOCK BASE PLATE DETAIL

PERCENT SLOPE	ADDITIONAL GRAVEL FOR SETTING BALLAST
SLOPE ≤ 5%	NONE REQUIRED
5% < SLOPE ≤ 10%	AS REQUIRED TO LEVEL UNDULATING SLOPES
SLOPE > 10%	LEVELING PAD REQUIRED


NOTE:
GRAVEL PAD AS NEEDED WHERE BALLAST LEVELING IS REQUIRED DUE TO SLOPE OF GRADE - SEE SECTION C8/S-502. APPROVED COMPACTION METHODS INCLUDE 1 TO 2 PASSES WITH THE BACK OF AN EXCAVATOR BUCKET, A VIBRATING COMPACTOR PLATE, OR A WHACKER PLATE COMPACTOR.



NOTE
1. DETAILS FOR THE BALLASTED ANCHOR SYSTEM DESIGNED BY RBI SOLAR AND PROVIDED TO GEORGIA POWER COMPANY AND GOLDER AS DRAWING S-502, DATED 08/29/18.


**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

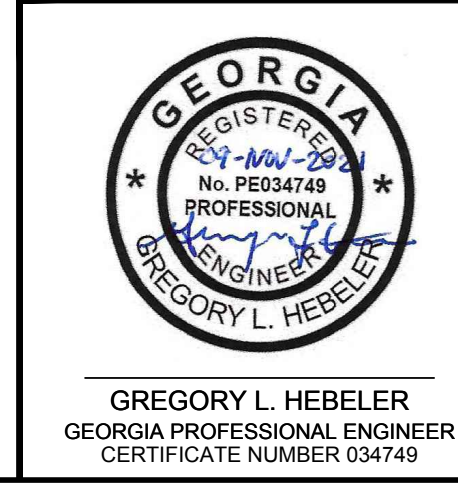
TITLE
**POST CLOSURE SOLAR DEVELOPMENT - OPTION 1
BALLASTED ANCHOR SYSTEM
SECTIONS AND DETAILS - SHEET 2**

CONSULTANT	DATE	REVISION
	YYYY-MMM	2021-NOV
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. **1777449**

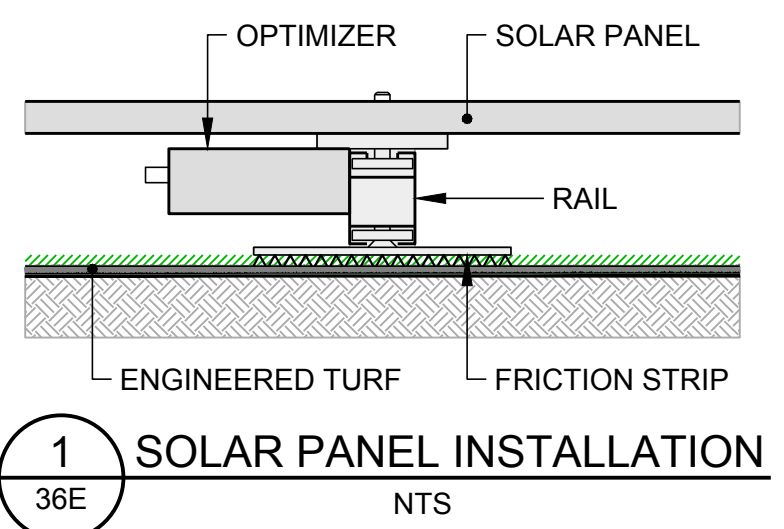
REV. **----**

SHEET **36D**



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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D 11in



- LEGEND**
- EXISTING CONTOURS (MARCH 2018)
 - PROPERTY BOUNDARY MARKERS/LIMITS
 - FINAL CLOSURE CONTOURS
 - CLOSURE CONTOURS OUTSIDE LIMITS OF CCR
 - EXISTING OVERHEAD ELECTRIC LINES IN ASH POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
 - EXISTING GAS LINE
 - PERMIT BOUNDARY AP-2, AP-3/4
 - FINAL LIMITS OF LINER

- NOTES**
1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."
 2. PLANT OPERATIONS AND MAINTENANCE WILL OCCUR WITHIN THE PERMIT BOUNDARY BUT OUTSIDE THE LIMITS OF THE CCR CONSOLIDATION AREA (E.G. OUTSIDE THE FINAL CCR BOUNDARY AND FINAL COVER SYSTEM). ACTIVITIES NOT DIRECTLY AFFECTING THE CCR CONSOLIDATION OR FINAL COVER SYSTEM, SUCH AS THOSE NEEDED TO CONSTRUCT, MAINTAIN, REPLACE OR REPAIR SYSTEMS FOR ELECTRIC POWER GENERATION OR ITS DELIVERY (SUCH AS SUBSURFACE PIPING, ELECTRICAL APPURTENANCES, TRANSMISSION STRUCTURES, ETC.) MAY BE CONDUCTED AT THE PERMITTEE'S DISCRETION.
 3. FINAL CLOSURE CONTOURS (PURPLE) DELINEATE FINAL LIMITS OF CCR.
 4. CLOSURE CONTOURS OUTSIDE LIMITS OF CCR (GREEN) DELINEATE AREAS WHERE ANY EXISTING ASH IS TO BE EXCAVATED.

- REFERENCES**
1. SOLAR LAYOUT INFORMATION ON THIS SHEET, SOURCED FROM SOUTHERN COMPANY DRAWING SK-0001 AND SK-0002 AND PRESENTED IN POST-CLOSURE SOLAR DEVELOPMENT EVALUATION, PART B SECTION 5 OF PLANT MCDONOUGH CCR UNIT AP-2, AP-3/4 PERMIT.

PROPOSAL SPECIFICATIONS

SYSTEM SIZE DC (KW)	7,756
SYSTEM SIZE AC (KW)	6,255
DC TO AC RATIO	1.24
MODULE INFORMATION	(16,159) Q CELLS, Q PEAK DUO XL-G10.3/BFG 480W
STRING INFORMATION	(700) PARALLELED STRINGS (10 AWG COPPER)
INVERTER INFORMATION	(50) CPS SCH29KTL-D00US-600
PANELS PER STRING	20-25
INTERCONNECTION VOLTAGE	MEDIUM VOLTAGE (12.47 KV)
RACKING DETAILS	POWERCAP FLUSH-MOUNT
SITE COORDINATES	33.818, -84.481
GROUND SNOW LOAD (PSF)	0

ARRAY INFORMATION

ARRAY NO.	AZIMUTH (SOUTH=180°)	TILT ANGLE	NO. OF MODULES	ROW SPACING	SETBACK	KW DC
ARY-1: TOP DECK	208°	0°	10,530	2 FT	20 FT	5,054.4
ARY-2: EAST SLOPE 1	139°	13.5°	312	2 FT	20 FT	148.8
ARY-3: EAST SLOPE 2	194°	13.5°	182	2 FT	20 FT	87.4
ARY-4: EAST SLOPE 3	177°	13.5°	182	2 FT	20 FT	87.4
ARY-5: EAST SLOPE 4	130°	13.5°	296	2 FT	20 FT	137.3
ARY-6: EAST SLOPE 5	192°	13.5°	260	2 FT	20 FT	124.8
ARY-7: EAST SLOPE 6	168°	13.5°	260	2 FT	20 FT	124.8
ARY-8: EAST SLOPE 7	129°	13.5°	754	2 FT	20 FT	361.9
ARY-9: EAST SLOPE 8	110°	13.5°	1,014	2 FT	20 FT	486.7
ARY-10: EAST SLOPE 9	111°	13.5°	312	2 FT	20 FT	148.8
ARY-11: SE SLOPE 1	153°	13.5°	221	2 FT	20 FT	106.1
ARY-12: SE SLOPE 2	150°	13.5°	208	2 FT	20 FT	99.8
ARY-12: SE SLOPE 3	150°	13.5°	208	2 FT	20 FT	99.8
ARY-12: SOUTH SLOPE 1	147°	13.5°	703	2 FT	20 FT	337.0
ARY-12: SOUTH SLOPE 2	191°	13.5°	312	2 FT	20 FT	148.8
ARY-12: SOUTH SLOPE 3	165°	13.5°	156	2 FT	20 FT	74.9
ARY-12: SOUTH SLOPE 4	191°	13.5°	260	2 FT	20 FT	124.8
TOTAL	N/A	N/A	16,159	N/A	N/A	7,756.5

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
POST CLOSURE SOLAR DEVELOPMENT - OPTION 2
NON-PENETRATING POLYETHYLENE FRICTION STRIPS & RAIL SYSTEM
GENERAL ARRANGEMENT SOLARCAP 6.25 MW AC-PV PROJECT

CONSULTANT

YYYY-MMM	2021-NOV
DESIGNED	GLH
PREPARED	RMS
CHECKED	LS
REVIEWED / APPROVED	GLH



PROJECT NO. 1777449 REV. SHEET 36E



GREGORY L. HEBEL
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

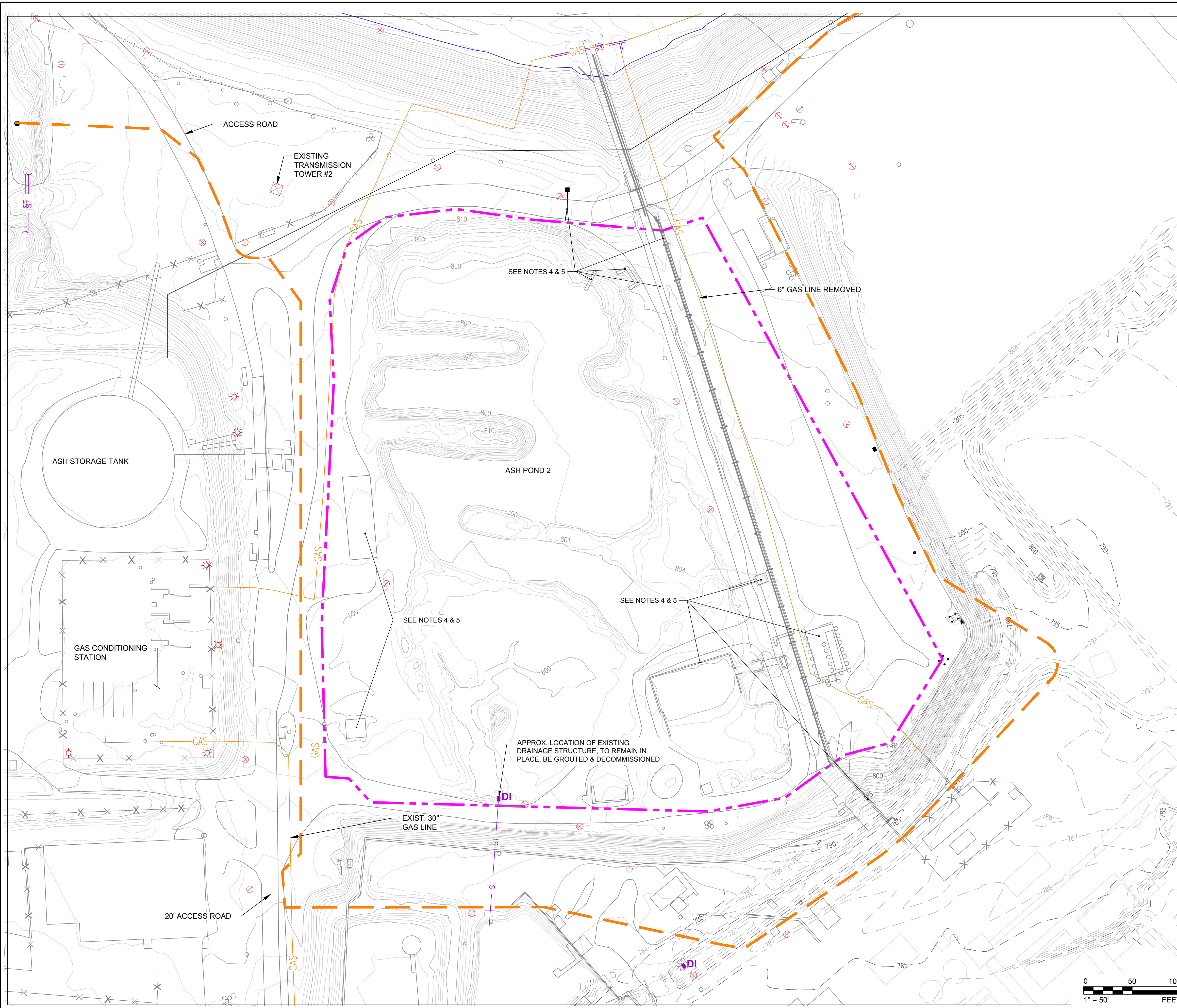
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D

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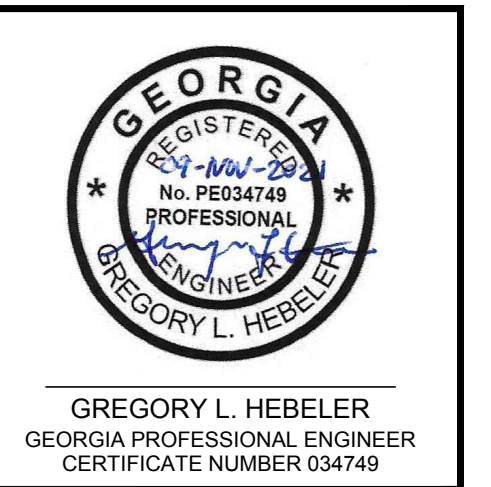
LEGEND

	PROPERTY LINE
	PROPOSED PERMIT BOUNDARY AP2, AP-3/4
	APPROXIMATE CCR LIMITS (PRE-CLOSURE)
	25' STREAM BUFFER
	FLOODPLAIN (APPROXIMATE) (100 YR)
	PRE-CLOSURE CONTOURS
	EXISTING FENCE LINE
	EXISTING LIGHT POLE
	EXISTING GAS LINE
	EXISTING ELECTRICAL
	EXISTING TRANSMISSION STRUCTURE

- NOTES**
- COORDINATE SYSTEM IS GEORGIA STATE PLANE NAD 83 (1994), WEST ZONE.
 - EXISTING CONTOURS SHOWN ON THIS PLAN ARE AT 1' INTERVALS.
 - SEE SHEET 1 FOR DRAWING INDEX.
 - ALL MISCELLANEOUS EXISTING STRUCTURES REMOVED BY OTHERS.
 - PIPES TO BE ABANDONED VIA A COMBINATION OF REMOVAL AND GROUTING OF REMAINING PORTIONS.

- REFERENCES**
- THE PRE-CLOSURE SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 10-16-2012. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 10-26-12. PROJECT NO. 13225 - 01-13-2013."
 - REVISED PRE-CLOSURE TOPOGRAPHY & CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER LAND DEPARTMENT. THE DATA SHOWN IS AN UPDATE TO THE PLANS DONE ON 10-16-2012 & THE ONSITE CHANGES SINCE THAT 2012 SURVEY. THE REVISED SURVEY WAS DONE ON 1-12-2016 & MERGED WITH THE DATA ON 10-16-2012. GEORGIA POWER COMPANY PLANT MCDONOUGH ASH PONDS - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF SURVEY 1-12-2016.

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**



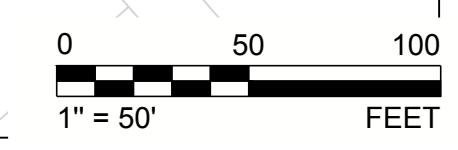
CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

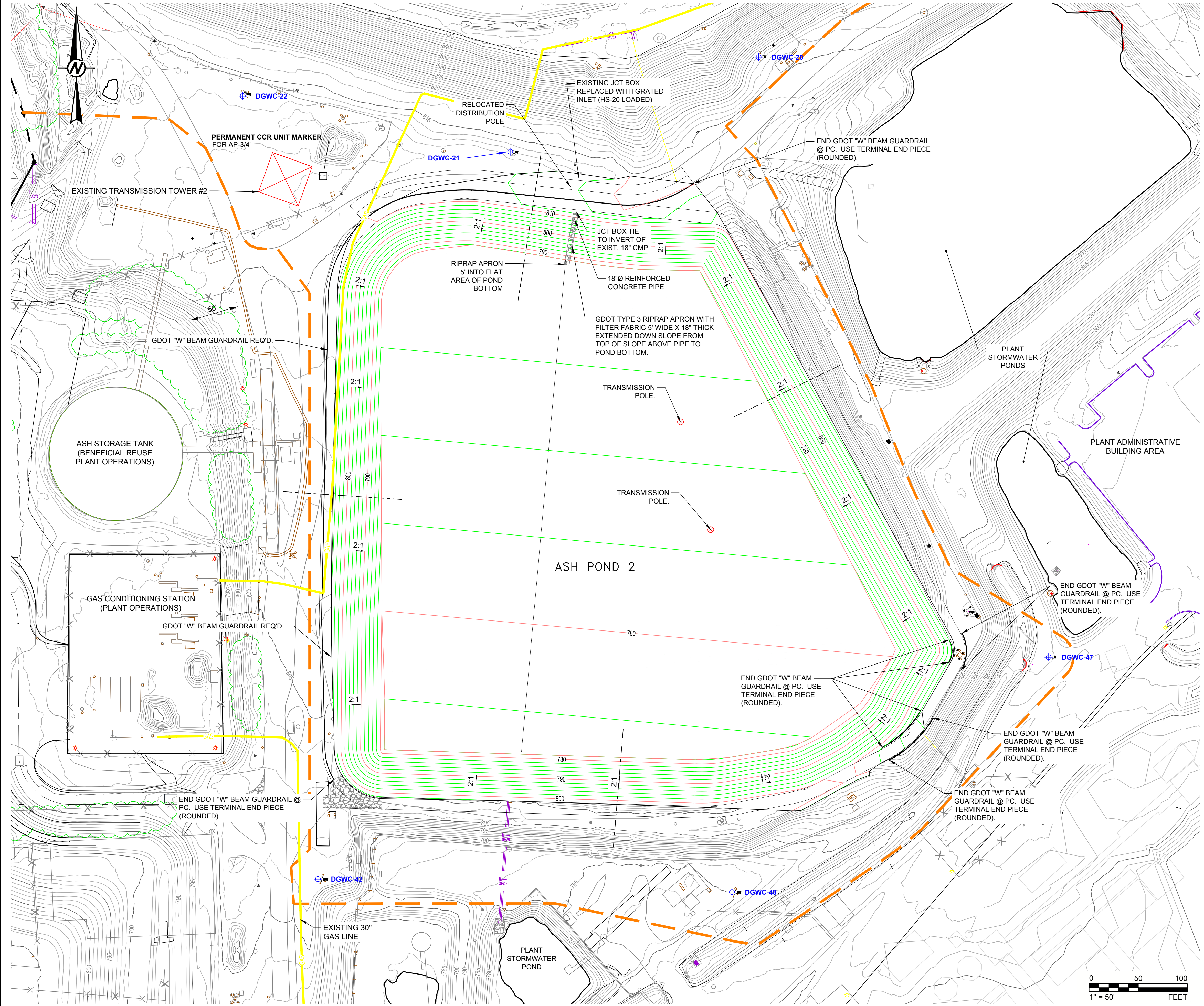
TITLE
PRE-CLOSURE CONDITIONS - AP-2

CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	GLH
GOLDER	PREPARED	RMS
MEMBER OF WSP	CHECKED	LS
	REVIEWED / APPROVED	GLH



1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/D

Path: \\valeriacad\Southern Company\1777449 Plant McDonough\Permitting\AP-3&4-AP-2\AP-3&4-AP-2\PRODUCTION\1 File Name: 1777449 38 FINAL GRADING SURFACE MANAGEMENT PLAN.dwg | Last Edited By: nashvare Date: 2021-11-09 Time: 8:35:55 AM
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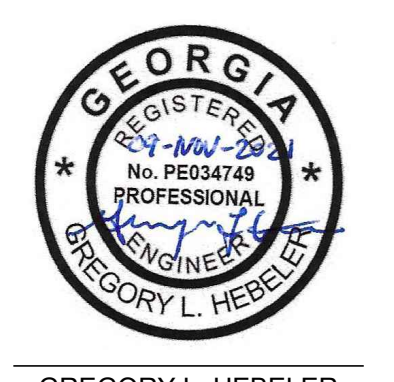
LEGEND

	PROPERTY LINE
	PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
	EXISTING CONTOURS (MARCH 2018)
	700 FINAL CLOSURE CONTOURS
	EXISTING FENCE LINE
	EXISTING LIGHT POLE
	DGWC-9 EXISTING GROUNDWATER MONITORING WELL
	EXISTING SANITARY SEWER
	EXISTING GAS LINE
	EXISTING STORM LINE
	EXISTING ELECTRICAL
	EXISTING TRANSMISSION STRUCTURE

- NOTES**
- PLANT OPERATIONS AND MAINTENANCE WILL OCCUR WITHIN THE PERMIT BOUNDARY BUT OUTSIDE THE LIMITS OF THE CCR CONSOLIDATION AREA (E.G. OUTSIDE THE FINAL CCR BOUNDARY AND FINAL COVER SYSTEM). ACTIVITIES NOT DIRECTLY AFFECTING THE CCR CONSOLIDATION OR FINAL COVER SYSTEM, SUCH AS THOSE NEEDED TO CONSTRUCT, MAINTAIN, REPLACE OR REPAIR SYSTEMS FOR ELECTRIC POWER GENERATION OR ITS DELIVERY (SUCH AS SUBSURFACE PIPING, ELECTRICAL APPURTENANCES, TRANSMISSION STRUCTURES, ETC.) MAY BE CONDUCTED AT THE PERMITTEE'S DISCRETION.
 - PERMANENT MARKER FOR AP-2 WAS INSTALLED IN SEPTEMBER 2021.
 - GRADES SHOWN WITHIN LIMITS OF AP-2 ARE DESIGN GRADES FOLLOWING CCR REMOVAL. THESE DESIGN GRADES MAY VARY FROM EXISTING CONDITIONS.

- REFERENCES**
- THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."

FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION




GREGORY L. HEBELER
 GEORGIA PROFESSIONAL ENGINEER
 CERTIFICATE NUMBER 034749

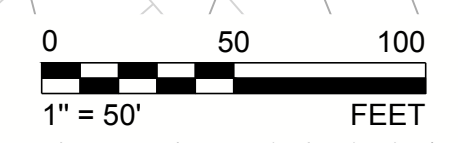
CLIENT
GEORGIA POWER COMPANY



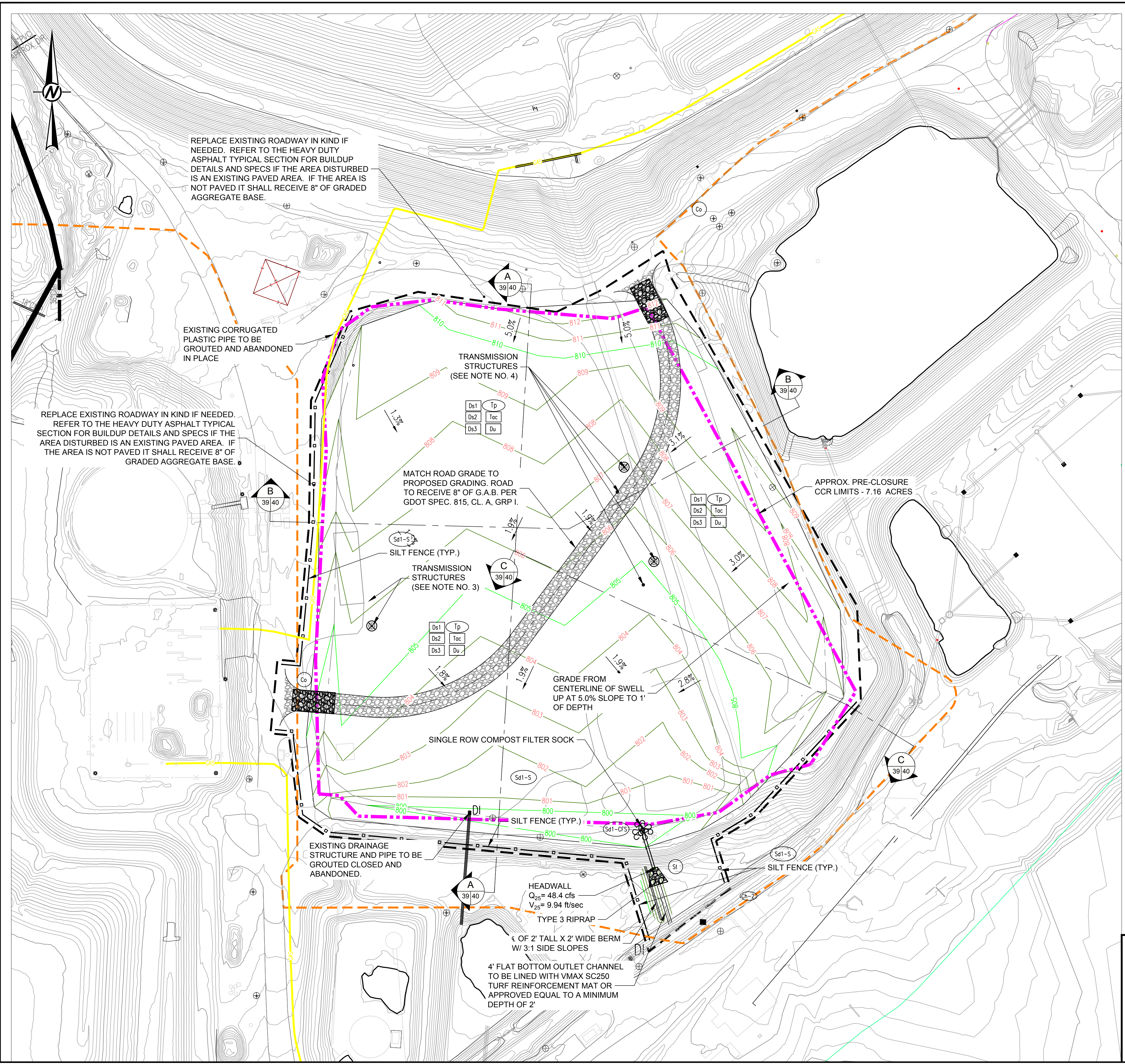
PROJECT
**PLANT MCDONOUGH - ATKINSON
 ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
 & ASH POND 2 (AP-2) CLOSURE**

TITLE
EXISTING CONDITIONS - AP-2 CLOSURE

CONSULTANT	YYYY-MM-DD	2021-NOV
 GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	-
	CHECKED	LS
	REVIEWED / APPROVED	GLH



1 in



LEGEND

- EXISTING CONTOURS
- PROPERTY BOUNDARY MARKERS/LIMITS
- EXISTING STREAM DIVERSION CULVERT UNDER EMBANKMENTS
- EXISTING STREAM DIVERSION CULVERT-CONCRETE ENCASED SECTION
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 3 & 4 AREA TO REMAIN & TO BE PROTECTED
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- EXISTING GAS LINE
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
- FINAL GRADE CONTOURS

EROSION CONTROL LEGEND

- SILT FENCE SENSITIVE
- COMPOSITE FILTER SOCK
- CONSTRUCTION EXIT
- TOPSOILING
- DISTURBED AREA STABILIZATION (WITH MULCH ONLY)
- DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- DISTURBED AREA (PERMANENT VEGETATION)
- DUST CONTROL
- TACKIFIER
- CHANNEL STABILIZATION
- STORM DRAIN OUTLET PROTECTION

NOTES

1. FIELD LOCATE ALL STORMWATER INLETS AND PROVIDE INLET PROTECTION (COMPOSITE FILTER SOCK RING INLET PROTECTION OR OTHER SEDIMENT TRAP) IF NOT SPECIFICALLY SHOWN ON THE DRAWING. IF PROVIDING AN ALTERNATIVE SEDIMENT TRAP, SUBMIT THE ALTERNATIVE TO THE ENGINEER AND PCM FOR APPROVAL PRIOR TO INSTALLATION.
2. USE SILT BAGS FOR DEWATERING OF EXCAVATED AREAS. THE SILT BAG SHALL BE PLACED ON 6" OF #57 STONE IN AN AREA THAT WILL DRAIN AWAY FROM THE WORK AREA. REPLACE BAG WHEN 3/4 FULL OF SEDIMENT. SUBMIT SILT BAG MANUFACTURER TO PCM FOR APPROVAL PRIOR TO PLACEMENT AND USE.
3. CONSULT WITH PURCHASER AS TO THE EXACT LIMITS OF PAVEMENT REMOVAL. CONTRACTOR TO MINIMIZE, TO THE EXTENT PRACTICAL, SOIL DISRUPTION WHEN REMOVING PAVEMENT AND PAVEMENT BASE COURSE, IF ANY.
4. CONSULT WITH PURCHASER AND GEORGIA POWER TRANSMISSION PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND MAINTAIN ALL OPERATIONAL CLEARANCES AND SAFETY GUIDELINES AROUND TRANSMISSION STRUCTURES.
5. THE DISPLAYED FUTURE DEVELOPMENT GRADES WITHIN CCR UNIT AP-2 REPRESENT THE INTENDED DESIGN GRADES FOR AP-2 BUT MAY VARY BY TO MEET THE FINAL CUT / FILL BALANCE OF ON-SITE SOURCES. A FINAL AS-BUILT DRAWING WILL BE PROVIDED TO GEORGIA EPD FOR REVIEW AND APPROVAL IN THE CONSTRUCTION CERTIFICATION REPORT.

REFERENCES

1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."

**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

TITLE
POTENTIAL FUTURE DEVELOPMENT PLAN

CONSULTANT	YYYY-MMM	2021-NOV
 GOLDER MEMBER OF WSP	DESIGNED	JWM / GLH
	PREPARED	-
	CHECKED	LS
	REVIEWED / APPROVED	GLH

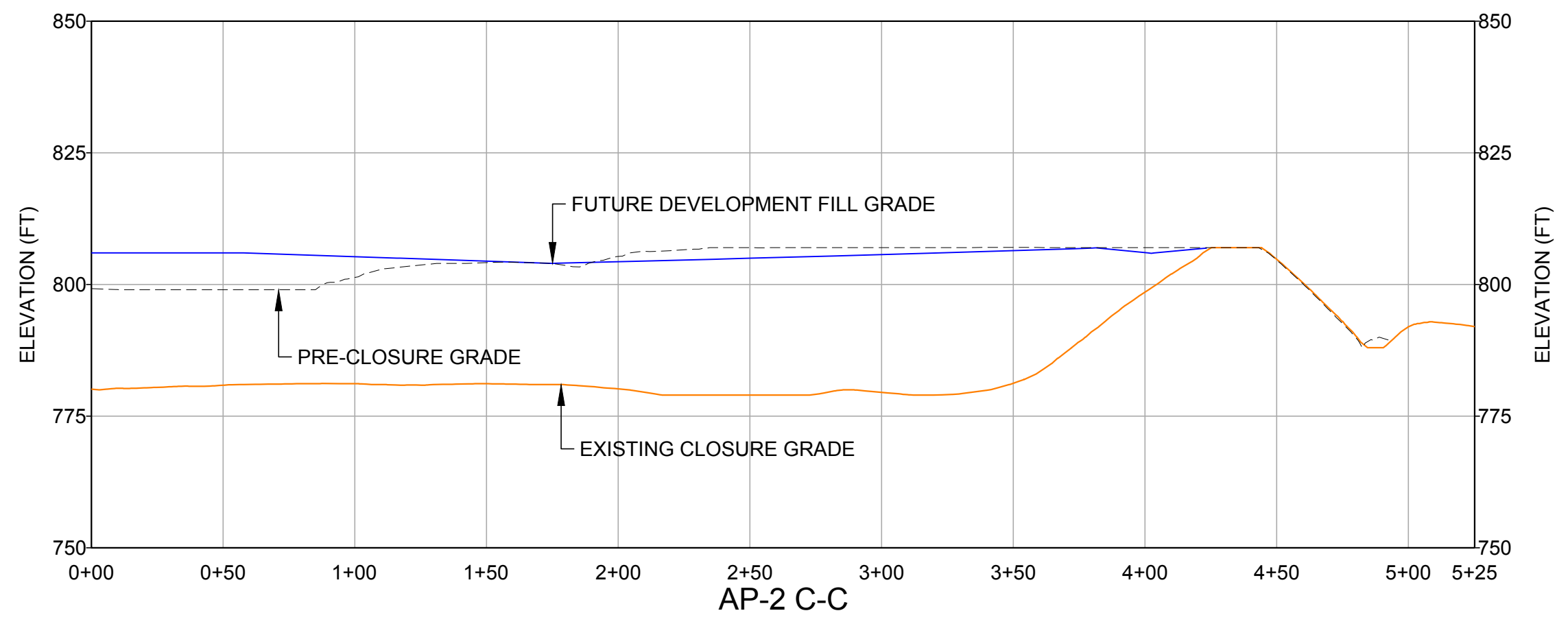
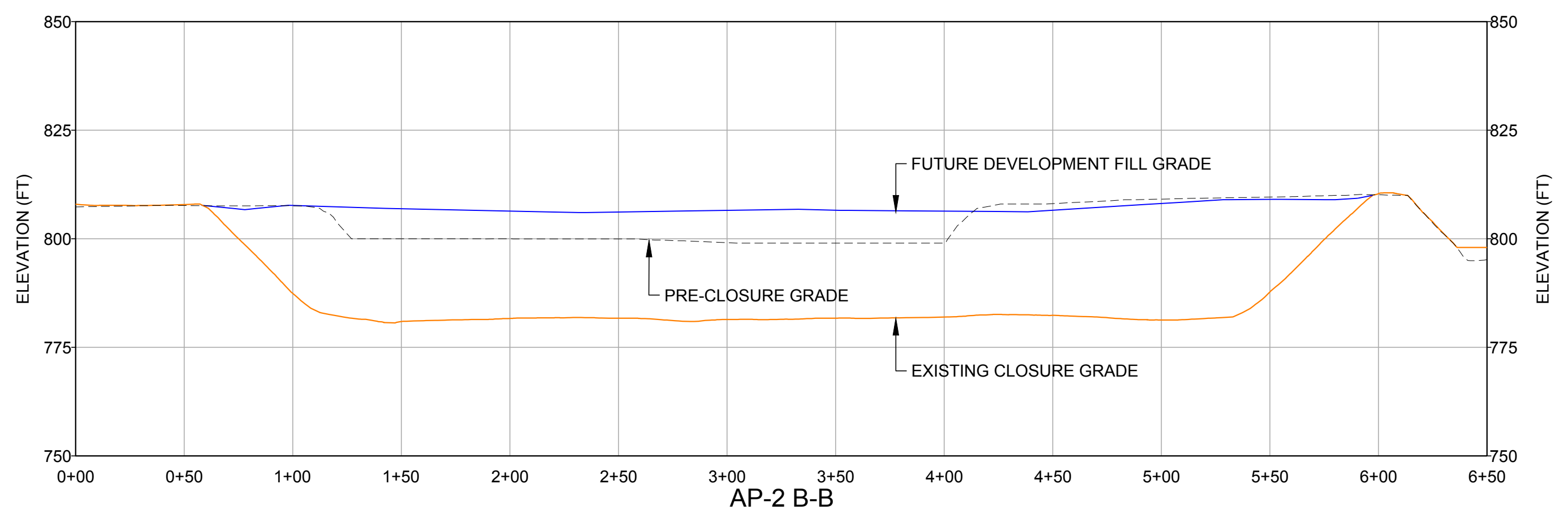
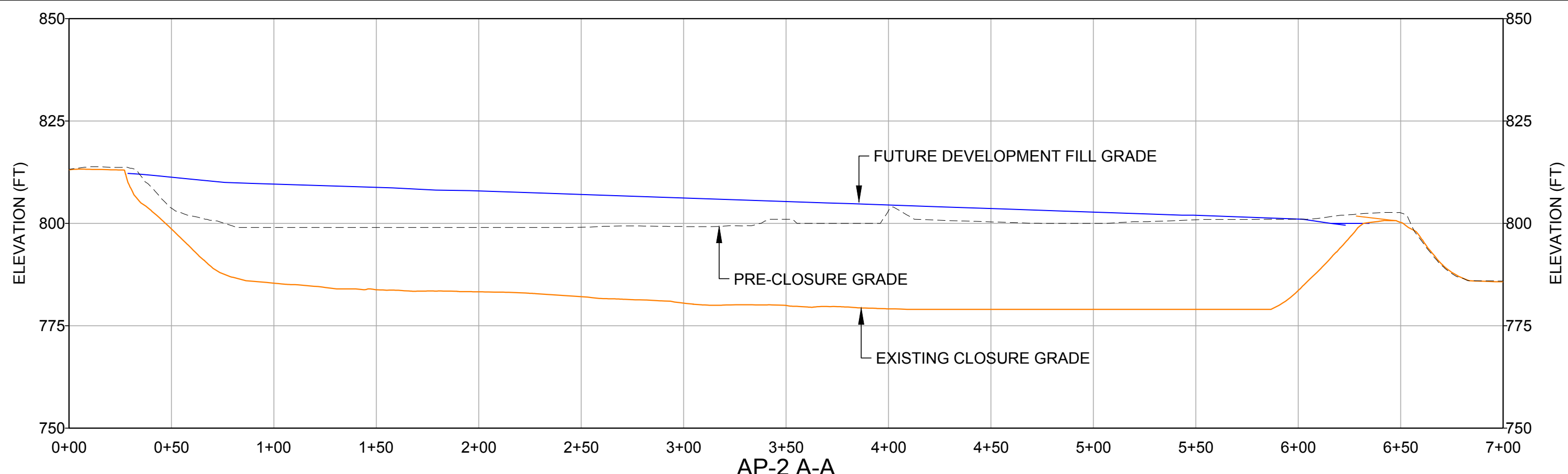
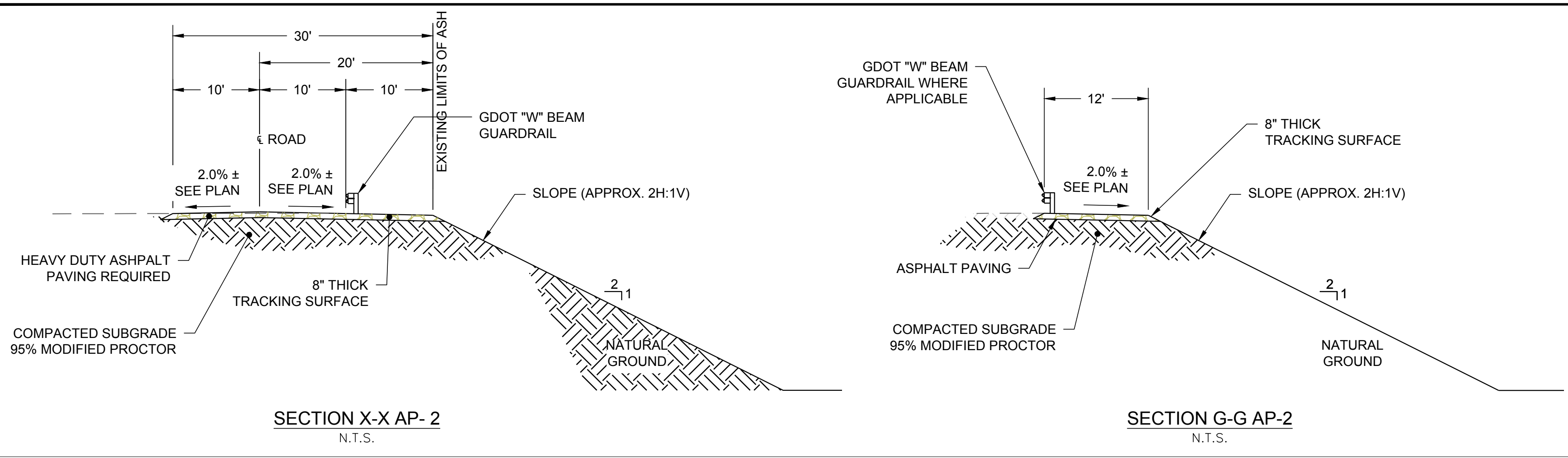


GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

PROJECT NO. 1777449
REV. 0
SHEET 39

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NOTE

1. THE DISPLAYED FUTURE DEVELOPMENT GRADES WITHIN CCR UNIT AP-2 REPRESENT THE INTENDED DESIGN GRADES FOR AP-2 BUT MAY VARY BY TO MEET THE FINAL CUT / FILL BALANCE OF ON-SITE SOURCES. A FINAL AS-BUILT DRAWING WILL BE PROVIDED TO GEORGIA EPD FOR REVIEW AND APPROVAL IN THE CONSTRUCTION CERTIFICATION REPORT.

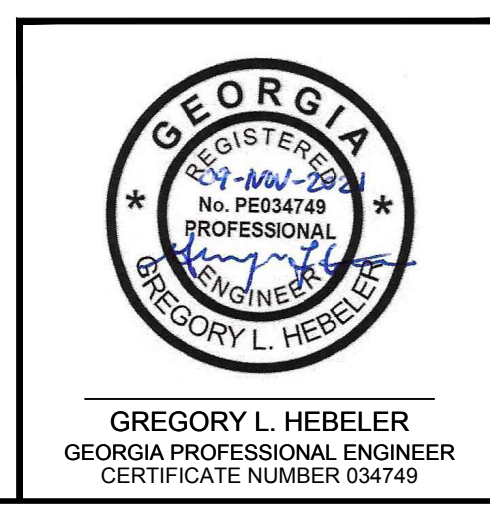
**FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION**

CLIENT
GEORGIA POWER COMPANY



PROJECT
**PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE**

TITLE
AP-2 DETAILS AND SECTIONS

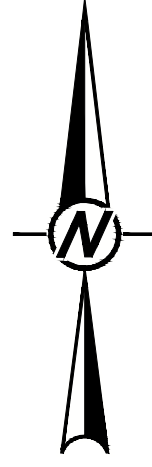


CONSULTANT	YYYY-MMM	2021-NOV
	DESIGNED	JWM / GLH
	PREPARED	-
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. **1777449** REV. **0** SHEET **40**

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LEGEND

- PRE-CLOSURE CONTOURS (MARCH 2018)
- PROPERTY BOUNDARY MARKERS/LIMITS
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 2 & 3/4 AREA TO REMAIN & TO BE PROTECTED
- 900 FINAL CLOSURE CONTOURS
- 800 CLOSURE CONTOURS OUTSIDE LIMITS OF CCR
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
- SURFACE WATER SAMPLE LOCATION
- AP-3/4 MONITORING WELL (SEE REFERENCE 2)
- ASSESSMENT WELLS (SEE REFERENCE 2 AND 3)
- LIMITS OF LINER

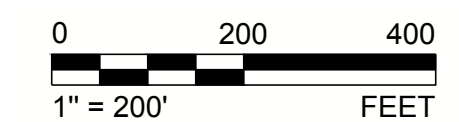
REFERENCES

1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO. INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."
2. PLANT MCDONOUGH-ATKINSON HYDROGEOLOGICAL ASSESSMENT REPORT (GOLDER, REV. 03, 2021).
3. SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020-2021.

NOTES

1. ELEVATIONS SHOWN OUTSIDE OF CLOSURE LIMITS ARE BASED ON MARCH 2018 TOPOGRAPHY AND MAY NOT REPRESENT CURRENT CONDITIONS.

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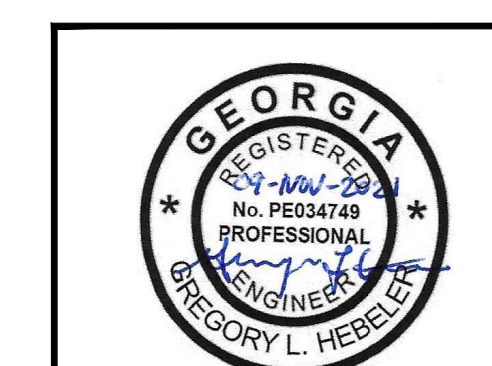


CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

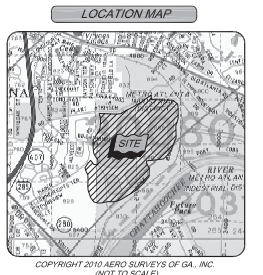
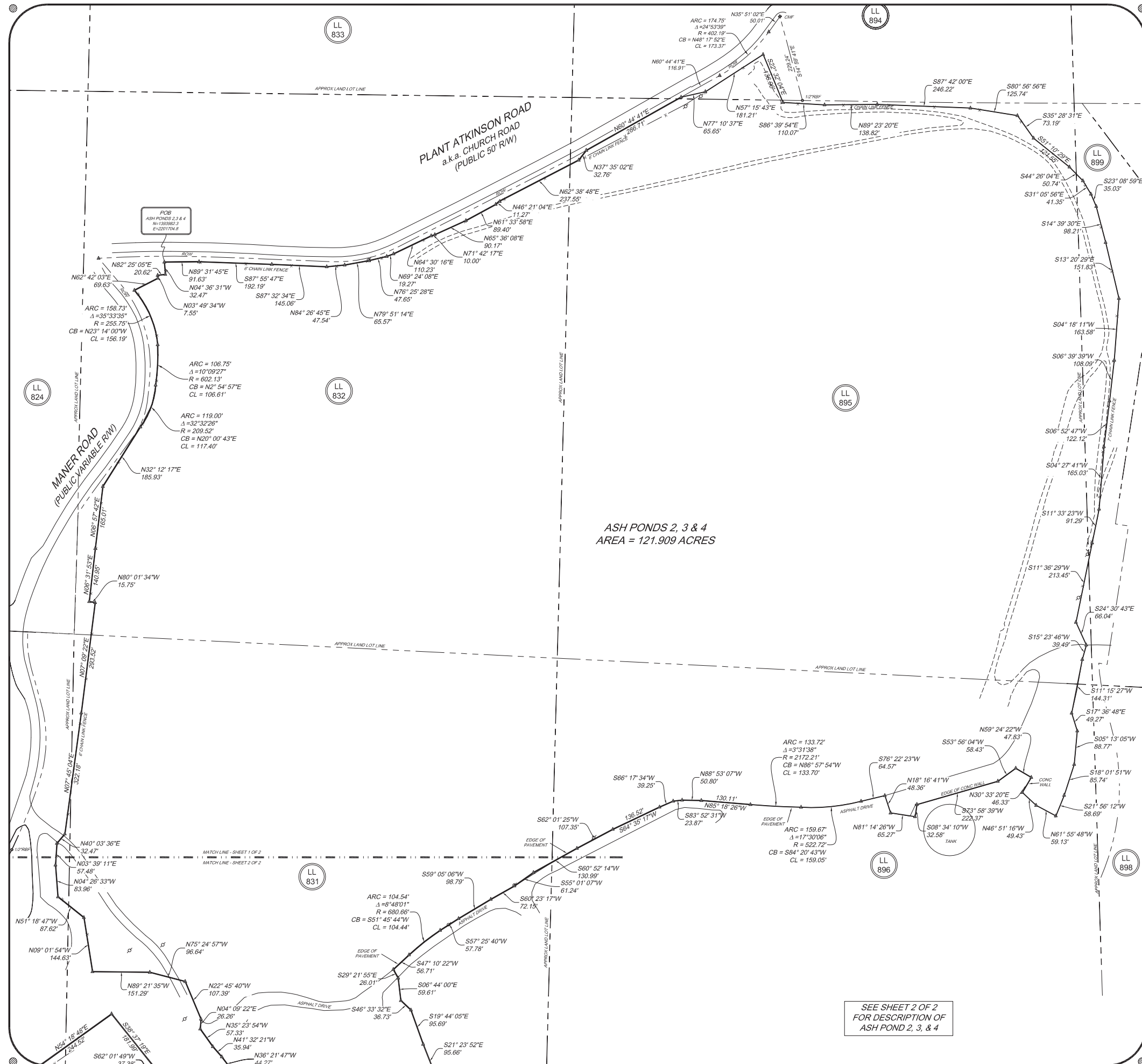
TITLE
COMPLIANCE WELL MONITORING NETWORK



GREGORY L. HEBELER
GEORGIA PROFESSIONAL ENGINEER
CERTIFICATE NUMBER 034749

CONSULTANT	YYYY-MMM	2021-NOV
GOLDER MEMBER OF WSP	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

PROJECT NO. 1777449 REV. SHEET 41



SURVEYORS NOTES

- CLOSURE STATEMENT**
- THE FIELD DATA UPON WHICH THIS MAP OR PLAN IS BASED HAS A CLOSURE PRECISION OF 1 FOOT IN 20,437 FEET AND AN ANGULAR ERROR OF 1 SECONDS PER ANGLE POINT, AND WAS ADJUSTED USING THE LEAST SQUARE METHOD.
 - THIS PLAN HAS BEEN CALCULATED FOR CLOSURE AND ITS ACCURACY IS 1 FOOT IN 189,237 FEET.
- EQUIPMENT AND FIELD SURVEY STATEMENT**
- LINEAR MEASUREMENTS AND ANGULAR MEASUREMENTS OBTAINED USING TOTAL STATION.
 - FIELD SURVEY COMPLETED ON 03-20-18.
- HORIZONTAL & VERTICAL DATUM**
- HORIZONTAL AND VERTICAL DATUM WAS ESTABLISHED USING RTK GPS METHODS WITH CORRECTIONS FROM THE GPS NETWORK. HORIZONTAL DATUM IS GEORGIA STATE PLANE, WEST ZONE, NAD83 AND THE VERTICAL DATUM IS NAVD83.
- UTILITIES**
- OVERHEAD AND UNDERGROUND UTILITIES THAT ARE SHOWN HEREON ARE BASED UPON FIELD SURFACE OBSERVATIONS AND AVAILABLE INFORMATION ON HAND AT THE TIME OF THE SURVEY. ONLY UTILITIES THAT WERE VISIBLE AND ACCESSIBLE WERE MEASURED. SITE EXCAVATION WAS NOT PERFORMED IN ANY WAY TO MEASURE ANY SUBSURFACE UTILITY OR FEATURE OF ANY TYPE. NOTES IS HEREBY GIVEN THAT KNOWING PARTS BELOW, CALL BEFORE YOU DIG, UTILITY LOCATION SERVICE (U11) SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION OF THE SITE.
- STREAMS, BODIES OF WATER, & WETLANDS**
- ALL STREAMS, BODIES OF WATER, AND WETLANDS MAY BE SUBJECT TO STATE, COUNTY, AND LOCAL BUFFERS OR RESTRICTIONS. SURVEYOR MAKES NO INTERPRETATION REGARDING THESE BUFFERS OR RESTRICTIONS. USER OF THIS MAP IS CAUTIONED TO CONSULT WITH THE APPROPRIATE GOVERNING AUTHORITIES CONCERNING POSSIBLE BUFFERS OR RESTRICTIONS.
- ARCHEOLOGICAL & HISTORIC**
- UNLESS SHOWN HEREON, NO CEMETERIES, ARCHEOLOGICAL, OR ARCHITECTURAL LANDMARKS ARE KNOWN TO EXIST ON THIS SITE. HOWEVER, SURVEYOR HAS NOT EXCAVATED THE SITE OR CONSULTED WITH A QUALIFIED PROFESSIONAL IN THIS FIELD FOR ABSOLUTE CONFIRMATION.
- REFERENCES**
- BOUNDARY SURVEY FOR PLANT MCDONOUGH/ATKINSON PREPARED BY WATTS AND BROWNING ENGINEERS, INC., LAST REVISED 01-15-18, GPC DRAWING NUMBER P281-4.

LEGEND

- P.O.B. POINT OF BEGINNING
- R.O.W. RIGHT-OF-WAY
- CTE CRIMP TOP PIPE FOUND
- OTF OPEN TOP PIPE FOUND
- RFIF REBAR FOUND
- LL LAND LOT
- ⊙ LIGHT POLE
- ⊖ POWER POLE
- ⊕ SANITARY SEWER MANHOLE



GEORGIA POWER CO., ATLANTA, GA. Land Department Plant McDonough Ash Pond 2, 3 & 4 Permit Boundary Survey			
Land Lots 825,830, 831, 894, 895, 896 and 899, 17th District, Cobb County, Georgia			
DR. _____ ACS	TRK. _____ TRK.	Checked JRG	DATE 10/12/18
SCALE 1" = 100'		MAP FILE NUMBER P470-5(2)	

T:\Working\Ash\McDonough\2018016083 Plant McDonough-Ash Pond Permitted Boundary Survey

SEE SHEET 2 OF 2
FOR DESCRIPTION OF
ASH POND 2, 3, & 4



