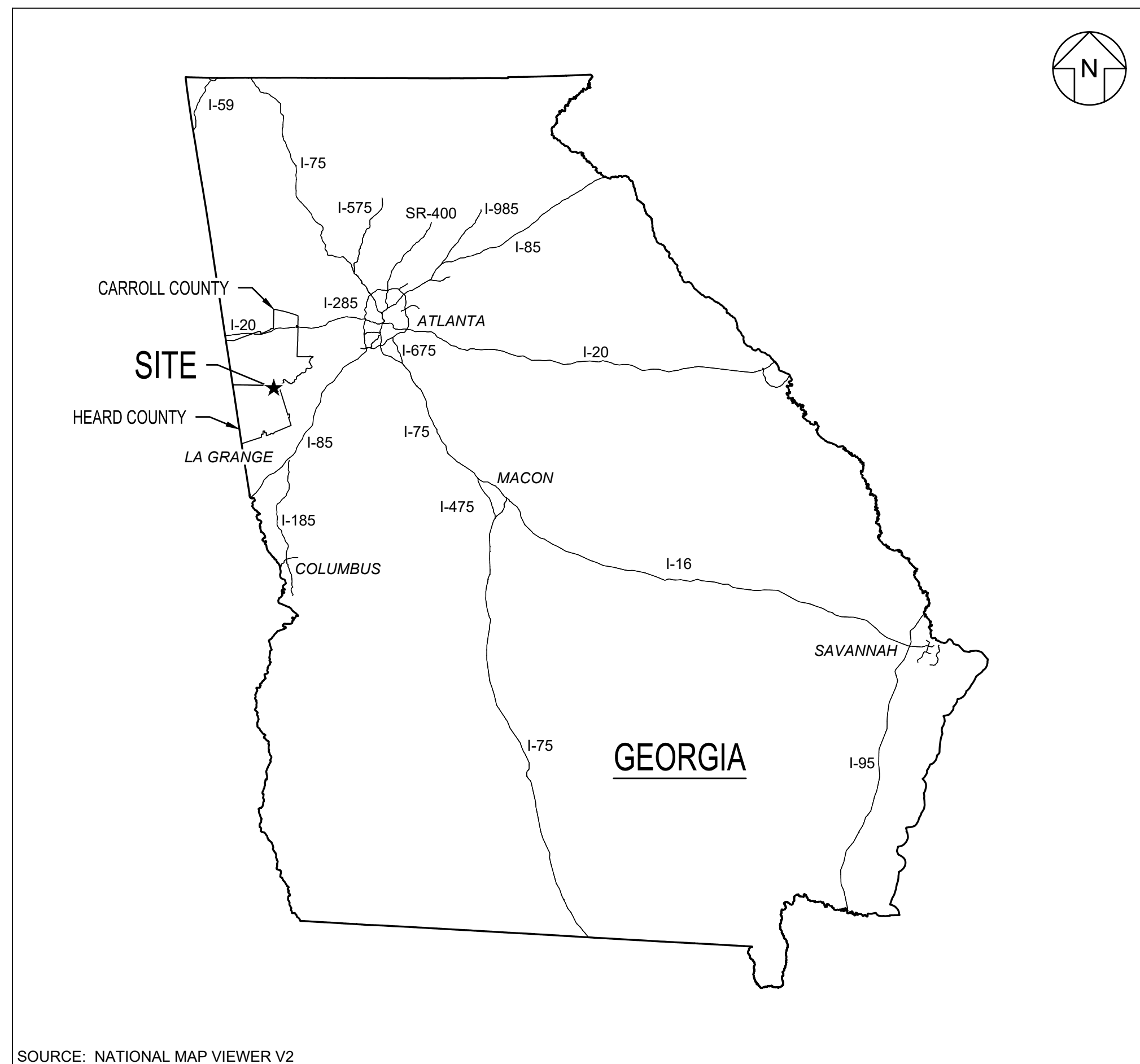


PLANT WANSLEY ASH POND 1 CLOSURE BY REMOVAL

HEARD AND CARROLL COUNTIES, GEORGIA

CCR PERMIT DRAWINGS

FEBRUARY 2025



LOCATION MAP
SCALE: NTS

LIST OF SHEETS	
DRAWING NO	DRAWING TITLE
01	COVER SHEET
02	LEGENDS, SYMBOLS, AND ABBREVIATIONS
03	PROPERTY BOUNDARY SURVEY AND LEGAL DESCRIPTION
04	SITE GROUNDWATER MONITORING PLAN
05	EXISTING SITE CONDITIONS - TOPOGRAPHY AND AP-1 BATHYMETRY
06	CCR REMOVAL PLAN - OVERVIEW
07	CCR REMOVAL PLAN - I
08	CCR REMOVAL PLAN - II
09	CCR REMOVAL PLAN - III
10	CCR REMOVAL PLAN - IV
11	CCR REMOVAL PLAN - V
12	SITE RESTORATION GRADING PLAN
13	SEPARATOR DIKE PLAN
14	SITE SECTIONS - I
15	SITE SECTIONS - II
16	SEPARATOR DIKE SECTIONS
17	CONSTRUCTION SEQUENCING PLAN - I
18	CONSTRUCTION SEQUENCING PLAN - II
19	FINAL STORMWATER AND ESC PLAN
20	STORMWATER AND ESC DETAILS - I
21	STORMWATER AND ESC DETAILS - II
22	STORMWATER AND ESC DETAILS - III



VICINITY MAP
SCALE: 1" = 2,000'

PREPARED FOR:



GEORGIA POWER ENVIRONMENTAL AFFAIRS
241 RALPH MCGILL BOULEVARD NE
ATLANTA, GEORGIA 30308-3374
TELEPHONE: 404.506.6505
EMAIL: GPCENV@SOUTHERNCO.COM

PHYSICAL SITE ADDRESS:
PLANT WANSLEY
1371 LIBERTY CHURCH ROAD
CARROLLTON, GA 30116

PREPARED BY:



1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
TELEPHONE: 678.202.9500



REV	DATE	DESCRIPTION	DRN	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
COVER SHEET				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.9500 WWW.GEOSYNTEC.COM		
PROJ. NO.	GW9155	DWG. GW7306.13-C01	EDIT	2/6/25
SCALE	AS SHOWN	DRAWING 01 OF 22		
DATE	FEBRUARY 2025			

C:_GEO-ACC\CCDCS\GEO\SYNTEC\SP\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\GW7306.13-C01

C:_GEO-ACC\ACCDCS\GEO\SYNTEC\SD\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGSH\TGW7306.13-C02

LINETYPE LEGEND

EXISTING		PROPOSED FINAL
	BATHYMETRY	
	BAFFLE WALL	
	BOTTOM OF CCR	
	BOTTOM OF NATIVE SOIL (SAPROLITE)	
	BOTTOM OF PARTIALLY WEATHERED ROCK	
	FENCE	
	FINISHED GRADE	
	GEOMEMBRANE	
	GEOTEXTILE SEPARATOR/CUSHION	
	LIMIT OF EXISTING CCR	
	LIMIT OF WATER SURFACE	
	OVERHEAD POWER TRANSMISSION LINES	
	PERMIT BOUNDARY	
	PROPERTY BOUNDARY	
	POTENTIOMETRIC SURFACE	
	RAILROAD	
	SURFACE WATER PIPE	
	TURBIDITY CURTAIN	

HATCH PATTERN LEGEND

SYMBOL	COMPONENT
	CCR
	CONCRETE
	CONTRACTOR LAY DOWN AREA
	DEEP SOIL MIX ZONE
	HYDROSEED
	PROTECTIVE SOIL LAYER
	RIPRAP
	RIPRAP - SEEPAGE BERM
	SAND
	WATER SURFACE

ABBREVIATIONS

%	PERCENT OR PERCENTILE
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ACRES
AP-1	ASH POND 1
APP	APPROVED BY
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BMP	BEST MANAGEMENT PRACTICE
CCR	COAL COMBUSTION RESIDUALS
CQA	CONSTRUCTION QUALITY ASSURANCE
¢	CENTERLINE
DIA	DIAMETER
DRN	DRAWN BY
DWG	DRAWING
E	EASTING
E.G.	FOR EXAMPLE
EL	ELEVATION
FT	FEET
GA EPD	GEORGIA ENVIRONMENTAL PROTECTION DIVISION
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GPC	GEORGIA POWER COMPANY
GSWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
H:V	HORIZONTAL TO VERTICAL LENGTH RATIO FOR A SLOPE
HDPE	HIGH DENSITY POLYETHYLENE
HECP	HYDRAULIC EROSION CONTROL PRODUCTS
I.E.	THAT IS
ID	IDENTIFIER
IN.	INCH
INV	INVERT
LBS	POUNDS
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
LOD	LIMITS OF DISTURBANCE
MAX	MAXIMUM
MIL	ONE-THOUSANDTH OF AN INCH
MIN	MINIMUM
N	NITROGEN / NORTH / NORTHING
NAD83	NORTH AMERICAN DATUM OF 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NO.	NUMBER
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
N-P-K	NITROGEN-PHOSPHORUS-POTASSIUM
NSA	NATIONAL STONE ASSOCIATION
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
PC	PERIMETER CHANNEL
PPM	PARTS PER MILLION
PROJ	PROJECT
PWR	PARTIALLY WEATHERED ROCK
PZ	PIEZOMETER
RECP	ROLLED EROSION CONTROL PRODUCTS
REV	REVISION
SCS	SOUTHERN COMPANY SERVICES
SF	SILT FENCE
SQ FT	SQUARE FEET
STA	STATION
TYP	TYPICAL
W.S.	WATER SURFACE

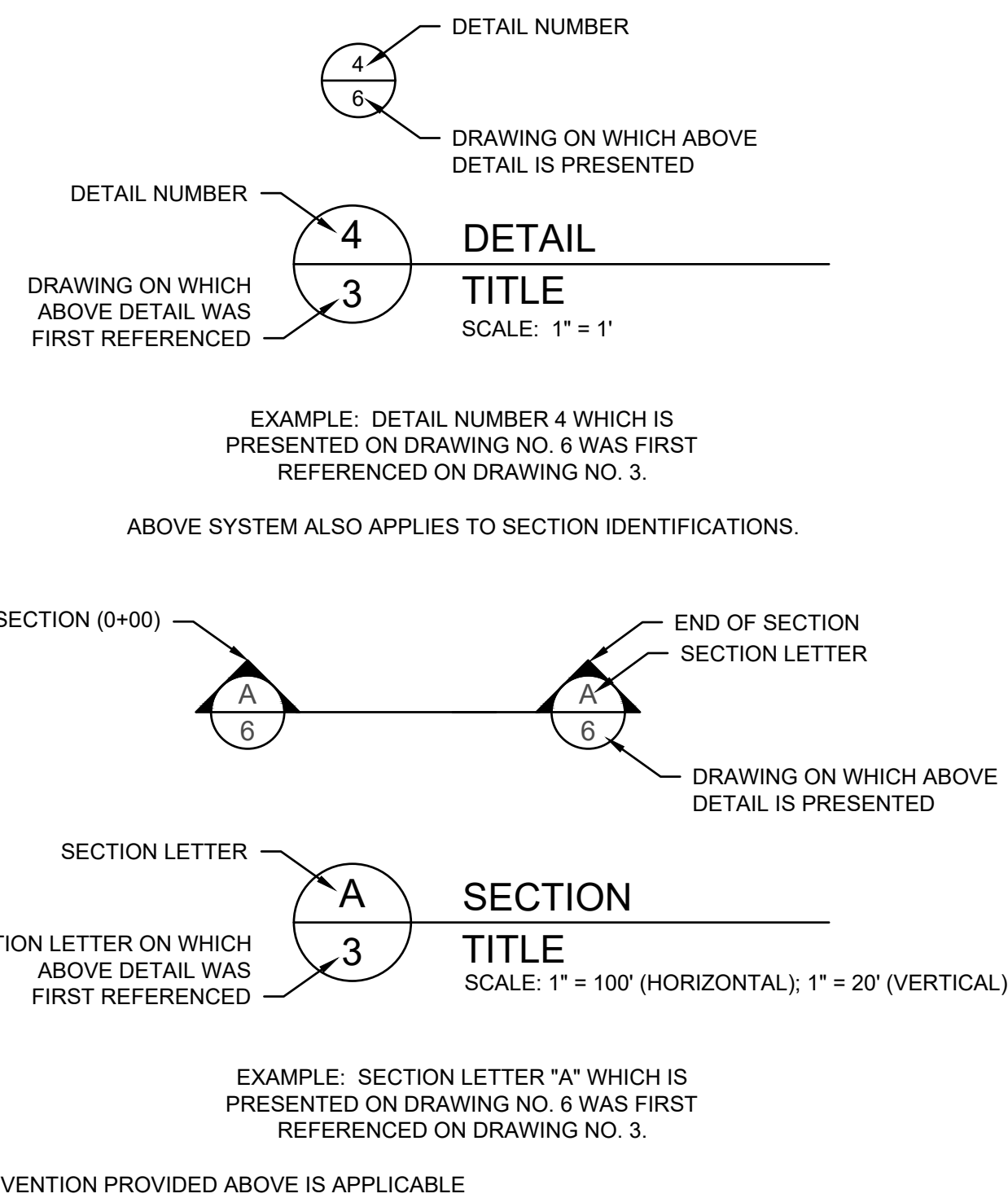
REFERENCE NOTES

- GENERAL NOTES:
- GRID COORDINATE SYSTEM CORRESPONDS TO NAD83, GEORGIA WEST ZONE.
 - ELEVATIONS PRESENTED ARE IN FEET, NAVD88.
 - TOPOGRAPHY (I.E., EXISTING GROUND CONTOURS) WAS OBTAINED BY LIDAR SURVEY. BATHYMETRY (I.E., BOTTOM OF POND CONTOURS) WAS OBTAINED BY MULTIBEAM HYDROGRAPHIC SURVEY COMPLETED IN AUGUST 2019. BOTH SURVEYS WERE COMPLETED AND PROVIDED BY ARC SURVEYING AND MAPPING IN NOVEMBER 2019.
 - BATHYMETRY REFLECTS THE CONDITIONS AT THE TIME OF THE SURVEY AND MAY NOT REFLECT CURRENT CONDITIONS.
 - PLANIMETRIC FEATURES AND PROPERTY BOUNDARY ARE APPROXIMATE AND WERE OBTAINED FROM ELECTRONIC FILES PROVIDED BY SCS IN NOVEMBER 2016.
 - THE LATERAL LIMIT OF CCR IS APPROXIMATE BASED ON DRAWINGS PROVIDED BY SCS AND FIELD DISCUSSIONS WITH PLANT WANSLEY STAFF. FIELD VERIFICATION OF THE ACTUAL LIMIT OF CCR DURING CONSTRUCTION WILL BE REQUIRED.
 - THE LATERAL LIMIT OF WATER SURFACE WITHIN AP-1 IS BASED ON A POOL ELEVATION OF 781.5 FT, WHICH MAY FLUCTUATE WITH SEASONAL VARIATIONS.
 - THE BOTTOM OF CCR SURFACE WAS APPROXIMATED BASED ON A TOPOGRAPHIC SURVEY, PERFORMED FOLLOWING THE CONSTRUCTION OF THE SEPARATOR DIKE AND PRIOR TO RECEIPT OF CCR IN THE SURFACE IMPOUNDMENT (SHEET G-10023, DATED 01 MARCH 1976, PROVIDED BY SCS). IN AREAS WHERE THE POST-CONSTRUCTION TOPOGRAPHIC SURFACE IS ABOVE THE 2019 BATHYMETRIC SURFACE, THE BOTTOM OF CCR SURFACE WAS ASSUMED TO BE THE ELEVATION OF THE BATHYMETRIC SURFACE. GEOTECHNICAL DATA FROM 24 BORINGS COLLECTED BY GEOSYNTEC IN SPRING 2017 AND 30 CPTS COLLECTED BY GEOSYNTEC IN SPRING 2019 ALONG THE PROPOSED CONTAINMENT STRUCTURE ALIGNMENT WERE INTEGRATED INTO THE BOTTOM OF CCR SURFACE. BOTTOM OF CCR IS TO BE FIELD VERIFIED WITHIN THE CLOSURE BY REMOVAL AREA.
 - TOP OF EXISTING CCR WAS ASSUMED AS THE BATHYMETRIC SURFACE IN AREAS COVERED BY WATER AND AS EXISTING GROUND IN DRY AREAS.
 - SUBGRADE SURFACES (NATIVE SOIL, PWR, AND ROCK) WERE DEVELOPED FROM HISTORICAL BORINGS AND SITE DATA: (I) COLLECTED BY GEOSYNTEC CONSULTANTS IN 2016, 2017, AND 2019; AND (II) PROVIDED BY SCS IN 2016.
 - NO WORK SHALL SIGNIFICANTLY IMPACT THE EXISTING SEPARATOR DIKE BETWEEN AP-1 AND THE STORAGE WATER POND.
 - DEWATERING OF CCR DURING CLOSURE CONSTRUCTION WILL BE PERFORMED IN ACCORDANCE WITH THE ASH POND WATER MANAGEMENT PLAN (SECTION 3 OF PART B WITHIN THIS PERMIT APPLICATION).
 - CONTACT WATER FROM AP-1 DURING CLOSURE CONSTRUCTION WILL BE TREATED PRIOR TO DISCHARGE THROUGH THE NPDES OUTFALL TO MEET SPECIFICATIONS PROVIDED IN THE ASH POND DEWATERING PLAN, NPDES PERMIT NO. GA0026778, WHICH WAS APPROVED BY GA EPD ON NOVEMBER 29, 2021.
 - DUST CONTROL WILL BE MANAGED AS SPECIFIED IN THE FUGITIVE DUST CONTROL PLAN SECTION OF THE CLOSURE PLAN (SECTION 7 OF PART A WITHIN THIS PERMIT APPLICATION).
 - PERMIT BOUNDARY WAS DEVELOPED BY ESTABLISHING A MINIMUM 200-FT OFFSET UPGRADIENT OF AP-1, WHICH INCORPORATES ALL DOWNGRADIENT MONITORING WELLS, AND GENERALLY FOLLOWS THE PLANT ROAD ALONG THE SOUTH SIDE OF AP-1.
 - MONITORING WELL AND PIEZOMETER COORDINATES WERE OBTAINED FROM THE GROUNDWATER MONITORING PLAN (SECTION 6 OF PART A WITHIN THIS PERMIT APPLICATION).
 - ACCESS ROADS, ACCESS RAMPS, AND ASSOCIATED STORMWATER FEATURES WILL BE EVALUATED AS PART OF THE DETAILED DESIGN.

SYMBOL LEGEND

EXISTING		PROPOSED FINAL
	FREE WATER SURFACE	
	WGWC-11 MONITORING WELL - ASSESSMENT	
	WGWC-11 MONITORING WELL - DOWNGRADIENT	
	WGWA-7 MONITORING WELL - UPGRADIENT	
	PZ-4 PIEZOMETER	
	SLOPE GRADE	
	SLOPE INDICATOR	
	SLOPE LABEL	
	TRAILER OR BUILDING	
	VEGETATION	
	WATER FLOW DIRECTION	

DETAIL AND SECTION IDENTIFICATION LEGEND



CONTOUR LEGEND

EXISTING		PROPOSED
	400	BATHYMETRIC ELEVATION (FEET)
	750	EXISTING GROUND ELEVATION (FEET)
	430	FINISHED GRADE ELEVATION (FEET)

0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP

LEGENDS, SYMBOLS, AND ABBREVIATIONS

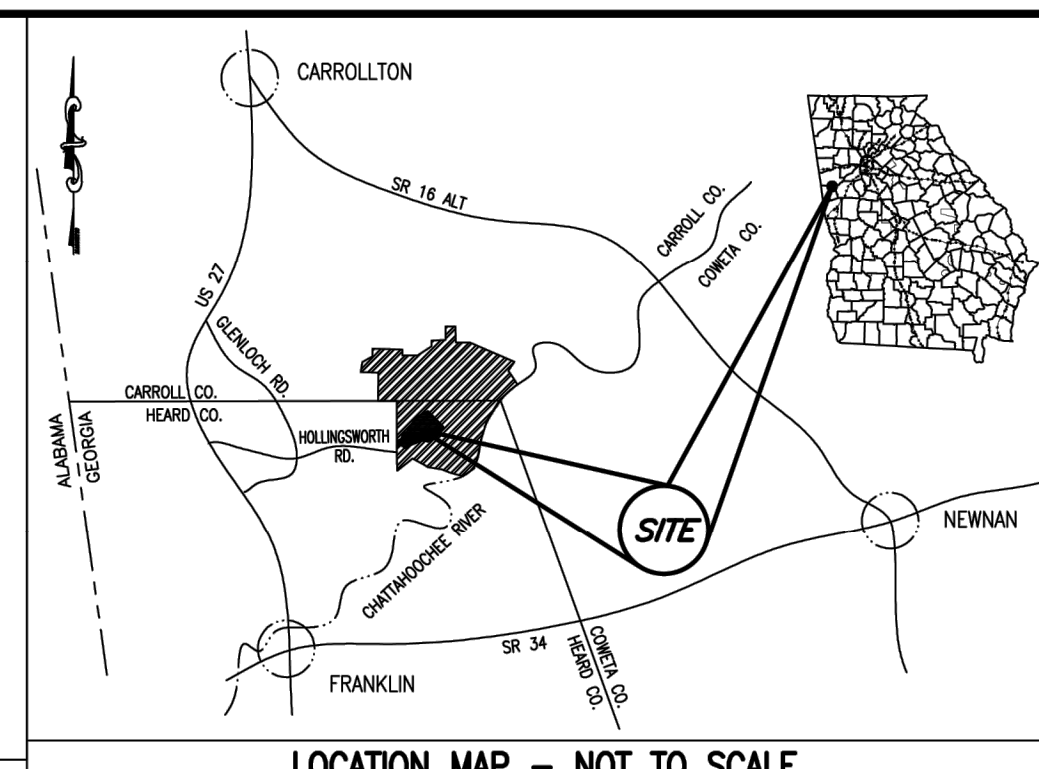
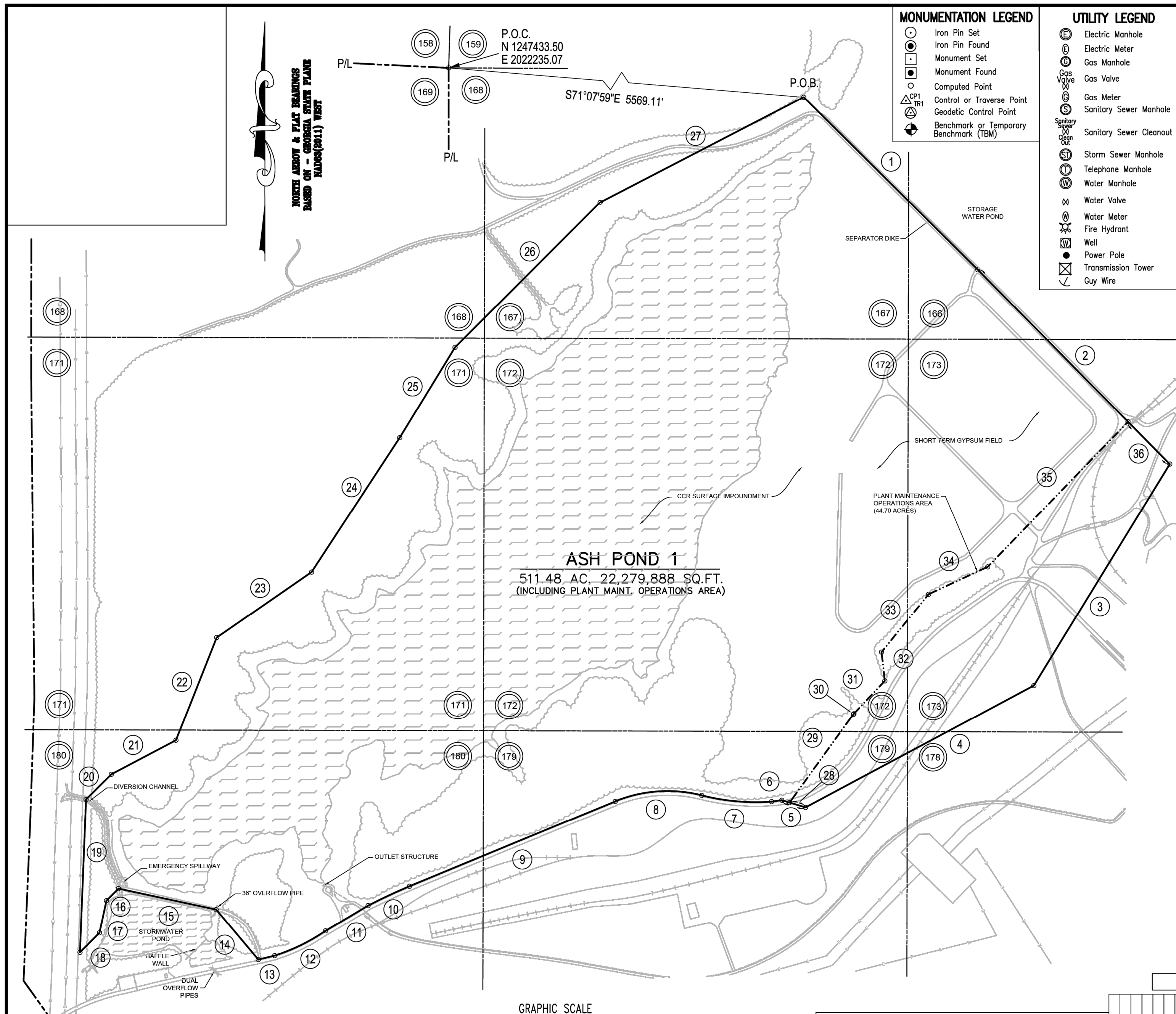
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
HEARD AND CARROLL COUNTIES, GEORGIA

Geosyntec
consultants

Georgia
Power

1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA	PHONE: 678.202.8500 WWW.GEOSYNTEC.COM
PROJ. NO. GW9155	DWG. GW7306.13-C02
SCALE AS SHOWN	EDIT 5/2/24
DATE FEBRUARY 2025	DRAWING 02 OF 22





REFERENCES - GPC DRAWINGS:

- GW 6372-004
- GW 6372-X010
- GW 6372-X011
- GW 6372-X015
- GW 6372-X023
- GW 6372-X030
- GW 6372-X054

PLAT ABBREVIATIONS:

- IPF - Iron Pin Found
- IPS - Iron Pin Set
- FPS - Fence Post Set
- OTF - Open Top Pipe
- CTP - Crimp Top Pipe
- Conc. - Concrete
- Alum. - Aluminum
- P/L - Property Line
- R/W - Right of Way
- C/L - Centerline
- F/L - Fence Line
- T/L - Transmission Line
- N/F - Now or Formerly
- DB - Deed Book
- PB - Plat Book
- MF - Map File No.
- N.T.S. - Not to Scale
- P.O.C. - Point of Commencement
- P.O.B. - Point of Beginning
- Geot. - Geotechnical Bore Hole
- UGF - Underground Power
- OHU - Overhead Utilities
- GPC - Georgia Power Company
- Land Lot
- Land Lot Line
- Open Water / Ash Pond

Plant Wansley Ash Pond 1 Call Table

Course	Bearing	Distance	Arc	Radius
1	S 45°15'06" E	1872.89'		
2	S 44°38'02" E	1864.39'		
3	S 31°32'22" W	1773.10'		
4	S 61°51'36" W	1767.17'		
5	N 73°08'24" W	169.47'		
6	S 82°10'14" W	70.19'		
7	N 84°54'34" W	478.68'	480.70'	1511.09'
8	S 85°59'30" W	592.38'	602.47'	947.69'
9	S 87°34'27" W	1519.55'		
10	S 65°01'46" W	310.76'	310.83'	4332.68'
11	S 59°04'48" W	668.39'		
12	S 64°01'22" W	386.54'	387.93'	1320.98'
13	S 76°34'49" W	114.84'		
14	N 40°04'42" W	446.67'		
15	N 77°50'46" W	681.68'		
16	S 45°00'00" W	116.35'		
17	S 12°09'14" W	225.07'		
18	S 45°00'00" W	188.93'		
19	N 02°16'55" E	1045.84'		
20	N 45°04'24" E	243.29'		
21	N 62°11'18" E	498.70'		
22	N 21°37'19" E	754.92'		
23	N 55°23'23" E	786.67'		
24	N 33°17'46" E	1096.72'		
25	N 31°28'36" E	722.89'		
26	N 45°01'42" E	401.06'		
27	N 62°41'02" E	1563.49'		
28	N 73°08'24" W	114.06'		
29	N 35°45'58" E	743.44'		
30	N 39°33'31" E	6.61'	6.62'	50.00'
31	N 43°21'04" E	308.09'		
32	N 06°32'55" W	197.31'		
33	N 39°06'30" E	509.33'		
34	N 69°09'15" E	444.46'		
35	N 44°03'50" E	1377.22'		
36	S 44°38'02" E	405.33'		

ASH POND 1
511.48 AC. 22,279,888 SQ.FT.
(INCLUDING PLANT MAINT. OPERATIONS AREA)

MONUMENTATION LEGEND

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

UTILITY LEGEND

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

LEGAL DESCRIPTION
PLANT WANSLEY - CCR PERMITTED LANDS - MAINTENANCE AREA

ALL THAT PARCEL OR TRACT OF LAND LYING AND BEING IN LAND LOTS 172, 173, 178, AND 179 OF THE 4TH DISTRICT, HEARD COUNTY, GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT, HAVING GEORGIA STATE PLANE, WEST ZONE, NAD83 COORDINATES OF: N 1245632.61 AND E 2027504.96; THENCE RUNNING SOUTH 45 DEGREES 16 MINUTES 06 SECONDS EAST A DISTANCE OF 1672.89 FEET TO A POINT; THENCE RUNNING SOUTH 44 DEGREES 38 MINUTES 02 SECONDS EAST A DISTANCE OF 1864.39 FEET TO A POINT; THENCE RUNNING SOUTH 31 DEGREES 32 MINUTES 22 SECONDS WEST A DISTANCE OF 1773.10 FEET TO A POINT; THENCE RUNNING SOUTH 61 DEGREES 51 MINUTES 36 SECONDS WEST A DISTANCE OF 1767.17 FEET TO A POINT; THENCE RUNNING SOUTH 73 DEGREES 08 MINUTES 24 SECONDS WEST A DISTANCE OF 114.06 FEET TO A POINT; THENCE NORTH 35 DEGREES 45 MINUTES 58 SECONDS EAST A DISTANCE OF 743.44 FEET TO A POINT; THENCE RUNNING ALONG A CURVE TO THE RIGHT AN ARC DISTANCE OF 480.70 FEET (SAID ARC HAVING A RADIUS OF 1511.09 FEET AND BEING SUBTENDED BY A CHORD 478.68 FEET IN LENGTH LYING TO THE NORTH OF SAID ARC AND BEARING NORTH 84 DEGREES 54 MINUTES 34 SECONDS WEST) TO A POINT; THENCE RUNNING ALONG A CURVE TO THE LEFT AN ARC DISTANCE OF 602.47 FEET (SAID ARC HAVING A RADIUS OF 947.69 FEET AND BEING SUBTENDED BY A CHORD 592.38 FEET IN LENGTH LYING TO THE SOUTH OF SAID ARC AND BEARING SOUTH 85 DEGREES 59 MINUTES 30 SECONDS WEST) TO A POINT; THENCE RUNNING SOUTH 67 DEGREES 34 MINUTES 49 SECONDS WEST A DISTANCE OF 114.84 FEET TO A POINT; THENCE RUNNING SOUTH 76 DEGREES 04 MINUTES 48 SECONDS WEST A DISTANCE OF 668.39 FEET TO A POINT; THENCE RUNNING SOUTH 85 DEGREES 01 MINUTES 46 SECONDS WEST TO A POINT; THENCE RUNNING SOUTH 59 DEGREES 04 MINUTES 48 SECONDS WEST A DISTANCE OF 668.39 FEET TO A POINT; THENCE RUNNING ALONG A CURVE TO THE RIGHT AN ARC DISTANCE OF 387.93 FEET (SAID ARC HAVING A RADIUS OF 1320.98 FEET AND BEING SUBTENDED BY A CHORD 386.54 FEET IN LENGTH LYING TO THE NORTHWEST OF SAID ARC AND BEARING SOUTH 64 DEGREES 01 MINUTES 22 SECONDS WEST) TO A POINT; THENCE RUNNING SOUTH 76 DEGREES 34 MINUTES 49 SECONDS WEST A DISTANCE OF 114.84 FEET TO A POINT; THENCE RUNNING NORTH 40 DEGREES 04 MINUTES 42 SECONDS WEST A DISTANCE OF 446.67 FEET TO A POINT; THENCE RUNNING NORTH 77 DEGREES 50 MINUTES 46 SECONDS WEST A DISTANCE OF 681.68 FEET TO A POINT; THENCE RUNNING SOUTH 45 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 116.35 FEET TO A POINT; THENCE RUNNING SOUTH 12 DEGREES 09 MINUTES 14 SECONDS WEST A DISTANCE OF 225.07 FEET TO A POINT; THENCE RUNNING SOUTH 45 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 188.93 FEET TO A POINT; THENCE RUNNING NORTH 02 DEGREES 16 MINUTES 55 SECONDS EAST A DISTANCE OF 1045.84 FEET TO A POINT; THENCE RUNNING NORTH 45 DEGREES 04 MINUTES 24 SECONDS EAST A DISTANCE OF 243.29 FEET TO A POINT; THENCE RUNNING NORTH 62 DEGREES 11 MINUTES 18 SECONDS EAST A DISTANCE OF 498.70 FEET TO A POINT; THENCE RUNNING NORTH 21 DEGREES 37 MINUTES 19 SECONDS EAST A DISTANCE OF 754.92 FEET TO A POINT; THENCE RUNNING NORTH 55 DEGREES 23 MINUTES 23 SECONDS EAST A DISTANCE OF 786.67 FEET TO A POINT; THENCE RUNNING NORTH 33 DEGREES 17 MINUTES 46 SECONDS EAST A DISTANCE OF 1096.72 FEET TO A POINT; THENCE RUNNING NORTH 31 DEGREES 28 MINUTES 36 SECONDS EAST A DISTANCE OF 722.89 FEET TO A POINT; THENCE RUNNING NORTH 55 DEGREES 23 MINUTES 23 SECONDS EAST A DISTANCE OF 786.67 FEET TO A POINT; THENCE RUNNING NORTH 33 DEGREES 17 MINUTES 46 SECONDS EAST A DISTANCE OF 1096.72 FEET TO A POINT; THENCE RUNNING NORTH 31 DEGREES 26 MINUTES 36 SECONDS EAST A DISTANCE OF 722.89 FEET TO A POINT; THENCE RUNNING NORTH 45 DEGREES 01 MINUTES 42 SECONDS EAST A DISTANCE OF 1401.06 FEET TO A POINT; THENCE RUNNING NORTH 62 DEGREES 41 MINUTES 02 SECONDS EAST A DISTANCE OF 1563.49 FEET TO A POINT AND THE POINT OF BEGINNING;

SAID TRACT CONTAINS 511.48 ACRES (22,279,888 SQUARE FEET).

SURVEY CLOSURE STATEMENT

The Field Data upon which this plot is based has a closure precision of one foot in N/A feet, and an angular error of N/A per angle point, and was adjusted using N/A method.

This plot has been calculated for closure and is found to be accurate within one foot in 955.334 feet.

Linear Measurement obtained using N/A
Angular Measurement obtained using N/A
Field Work completed N/A

NOTE: BACKGROUND IMPROVEMENTS PER GPC DRAWINGS GW 6372-X015 & GW 6372-X053

F.I.R.M. FLOOD NOTE:
THIS PROPERTY IS LOCATED IN A 100 YR. F.I.R.M. FLOODPLAIN, (BY GRAPHIC PLOTTING ONLY) ACCORDING TO F.I.R.M. FLOOD MAP OF HEARD COUNTY, GA. COMMUNITY-PANEL NO. 13149C0070 D, DATED APRIL 19, 2017.

GEORGIA POWER CO., ATLANTA, GA. Land Department
Boundary Survey For:
CCR Permitted Lands - Plant Wansley
Ash Pond 1

LAND LOTS 166, 167, 168, 171, 172, 173, 178, 179, & 180, 4TH DISTRICT, HEARD COUNTY, GEORGIA

APPROVALS: _____

REVISION BLOCK:

DR.	TR.	Checked
DE	TR.	WHB
SCALE 1" = 500'		
DATE 11.01.2018		
DRAWING NUMBER		
P467		
SHEET 1 OF 1		

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

I hereby certify that this survey has been prepared in conformity with the Technical Standards for Property Surveys in Georgia as set forth in Chapter 150-2 on the Rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in the Georgia Plat Act O.C.G.A. 15-6-67.

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

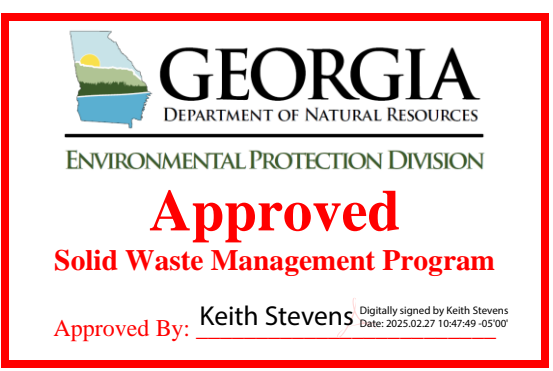
Date: September 6, 2018

LEGAL DESCRIPTION
PLANT WANSLEY - CCR PERMITTED LANDS - MAINTENANCE AREA

ALL THAT PARCEL OR TRACT OF LAND LYING AND BEING IN LAND LOTS 172, 173, 178, AND 179 OF THE 4TH DISTRICT, HEARD COUNTY, GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

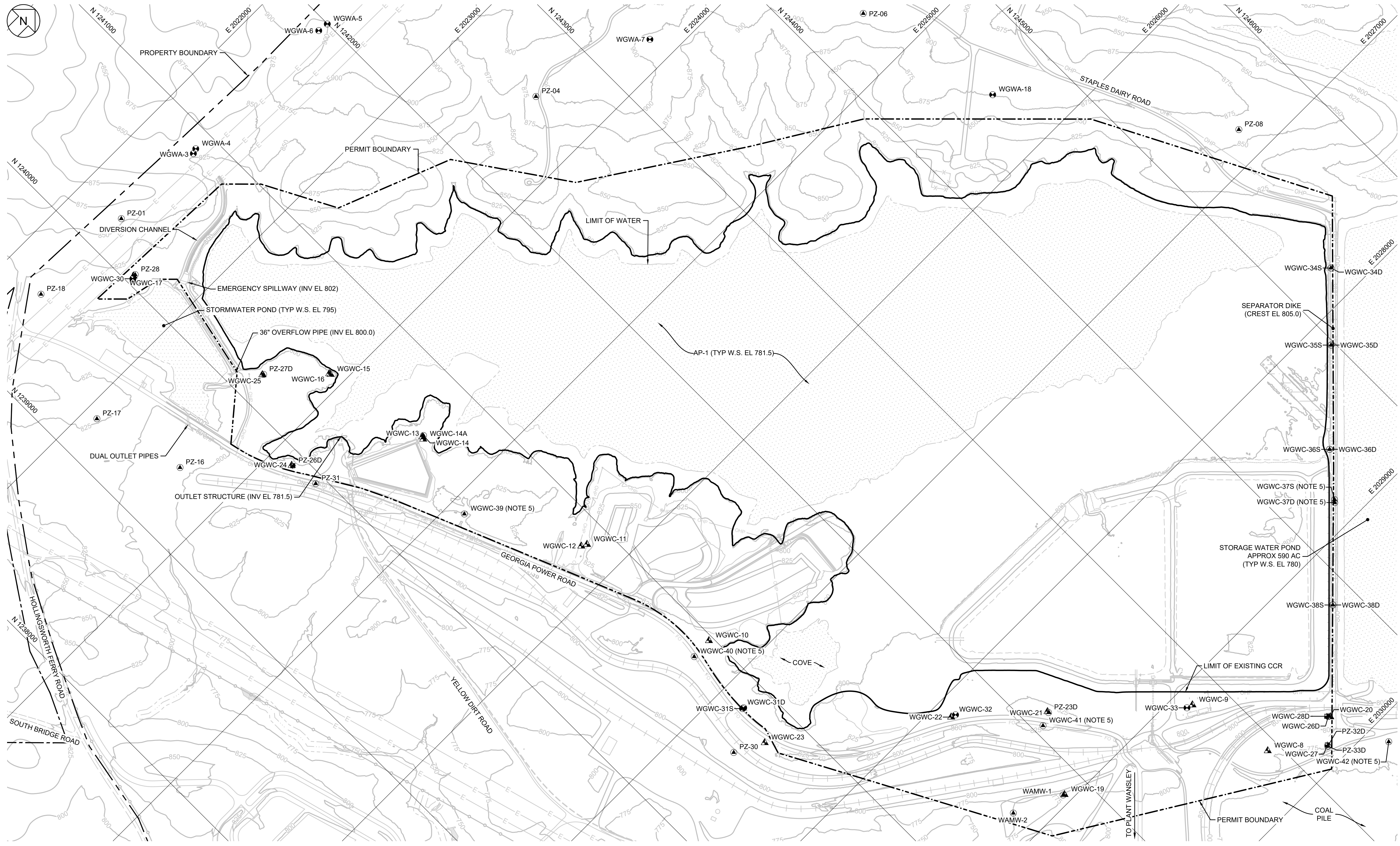
TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT, HAVING GEORGIA STATE PLANE, WEST ZONE, NAD83 COORDINATES OF: N 1245632.61 AND E 2027504.96; THENCE RUNNING SOUTH 45 DEGREES 16 MINUTES 06 SECONDS EAST A DISTANCE OF 1672.89 FEET TO A POINT; THENCE RUNNING SOUTH 44 DEGREES 38 MINUTES 02 SECONDS EAST A DISTANCE OF 1864.39 FEET TO A POINT; THENCE RUNNING SOUTH 31 DEGREES 32 MINUTES 22 SECONDS WEST A DISTANCE OF 1773.10 FEET TO A POINT; THENCE RUNNING SOUTH 61 DEGREES 51 MINUTES 36 SECONDS WEST A DISTANCE OF 1767.17 FEET TO A POINT; THENCE RUNNING SOUTH 73 DEGREES 08 MINUTES 24 SECONDS WEST A DISTANCE OF 114.06 FEET TO A POINT; THENCE NORTH 35 DEGREES 45 MINUTES 58 SECONDS EAST A DISTANCE OF 743.44 FEET TO A POINT; THENCE RUNNING ALONG A CURVE TO THE RIGHT AN ARC DISTANCE OF 480.70 FEET (SAID ARC HAVING A RADIUS OF 1511.09 FEET AND BEING SUBTENDED BY A CHORD 478.68 FEET IN LENGTH LYING TO THE NORTH OF SAID ARC AND BEARING NORTH 84 DEGREES 54 MINUTES 34 SECONDS WEST) TO A POINT; THENCE RUNNING ALONG A CURVE TO THE LEFT AN ARC DISTANCE OF 602.47 FEET (SAID ARC HAVING A RADIUS OF 947.69 FEET AND BEING SUBTENDED BY A CHORD 592.38 FEET IN LENGTH LYING TO THE SOUTH OF SAID ARC AND BEARING SOUTH 85 DEGREES 59 MINUTES 30 SECONDS WEST) TO A POINT; THENCE RUNNING SOUTH 67 DEGREES 34 MINUTES 49 SECONDS WEST A DISTANCE OF 114.84 FEET TO A POINT; THENCE RUNNING SOUTH 76 DEGREES 04 MINUTES 48 SECONDS WEST A DISTANCE OF 668.39 FEET TO A POINT; THENCE RUNNING SOUTH 85 DEGREES 01 MINUTES 46 SECONDS WEST TO A POINT; THENCE RUNNING SOUTH 59 DEGREES 04 MINUTES 48 SECONDS WEST A DISTANCE OF 668.39 FEET TO A POINT; THENCE RUNNING ALONG A CURVE TO THE RIGHT AN ARC DISTANCE OF 387.93 FEET (SAID ARC HAVING A RADIUS OF 1320.98 FEET AND BEING SUBTENDED BY A CHORD 386.54 FEET IN LENGTH LYING TO THE NORTHWEST OF SAID ARC AND BEARING SOUTH 64 DEGREES 01 MINUTES 22 SECONDS WEST) TO A POINT; THENCE RUNNING SOUTH 76 DEGREES 34 MINUTES 49 SECONDS WEST A DISTANCE OF 114.84 FEET TO A POINT; THENCE RUNNING NORTH 40 DEGREES 04 MINUTES 42 SECONDS WEST A DISTANCE OF 446.67 FEET TO A POINT; THENCE RUNNING NORTH 77 DEGREES 50 MINUTES 46 SECONDS WEST A DISTANCE OF 681.68 FEET TO A POINT; THENCE RUNNING SOUTH 45 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 116.35 FEET TO A POINT; THENCE RUNNING SOUTH 12 DEGREES 09 MINUTES 14 SECONDS WEST A DISTANCE OF 225.07 FEET TO A POINT; THENCE RUNNING SOUTH 45 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 188.93 FEET TO A POINT; THENCE RUNNING NORTH 02 DEGREES 16 MINUTES 55 SECONDS EAST A DISTANCE OF 1045.84 FEET TO A POINT; THENCE RUNNING NORTH 45 DEGREES 04 MINUTES 24 SECONDS EAST A DISTANCE OF 243.29 FEET TO A POINT; THENCE RUNNING NORTH 62 DEGREES 11 MINUTES 18 SECONDS EAST A DISTANCE OF 498.70 FEET TO A POINT; THENCE RUNNING NORTH 21 DEGREES 37 MINUTES 19 SECONDS EAST A DISTANCE OF 754.92 FEET TO A POINT; THENCE RUNNING NORTH 55 DEGREES 23 MINUTES 23 SECONDS EAST A DISTANCE OF 786.67 FEET TO A POINT; THENCE RUNNING NORTH 33 DEGREES 17 MINUTES 46 SECONDS EAST A DISTANCE OF 1096.72 FEET TO A POINT; THENCE RUNNING NORTH 31 DEGREES 26 MINUTES 36 SECONDS EAST A DISTANCE OF 722.89 FEET TO A POINT; THENCE RUNNING NORTH 55 DEGREES 23 MINUTES 23 SECONDS EAST A DISTANCE OF 786.67 FEET TO A POINT; THENCE RUNNING NORTH 33 DEGREES 17 MINUTES 46 SECONDS EAST A DISTANCE OF 1096.72 FEET TO A POINT; THENCE RUNNING NORTH 31 DEGREES 26 MINUTES 36 SECONDS EAST A DISTANCE OF 722.89 FEET TO A POINT; THENCE RUNNING NORTH 45 DEGREES 01 MINUTES 42 SECONDS EAST A DISTANCE OF 1401.06 FEET TO A POINT; THENCE RUNNING NORTH 62 DEGREES 41 MINUTES 02 SECONDS EAST A DISTANCE OF 1563.49 FEET TO A POINT AND THE POINT OF BEGINNING;

SAID TRACT CONTAINS 511.48 ACRES (22,279,888 SQUARE FEET).

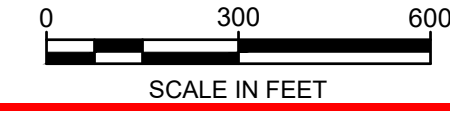
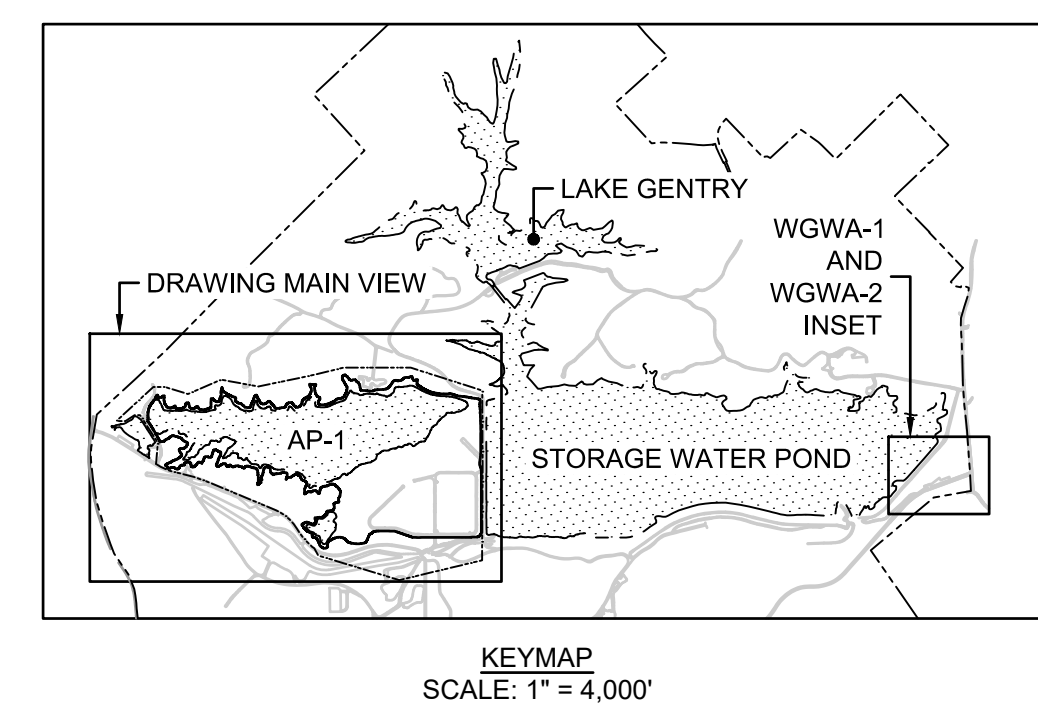
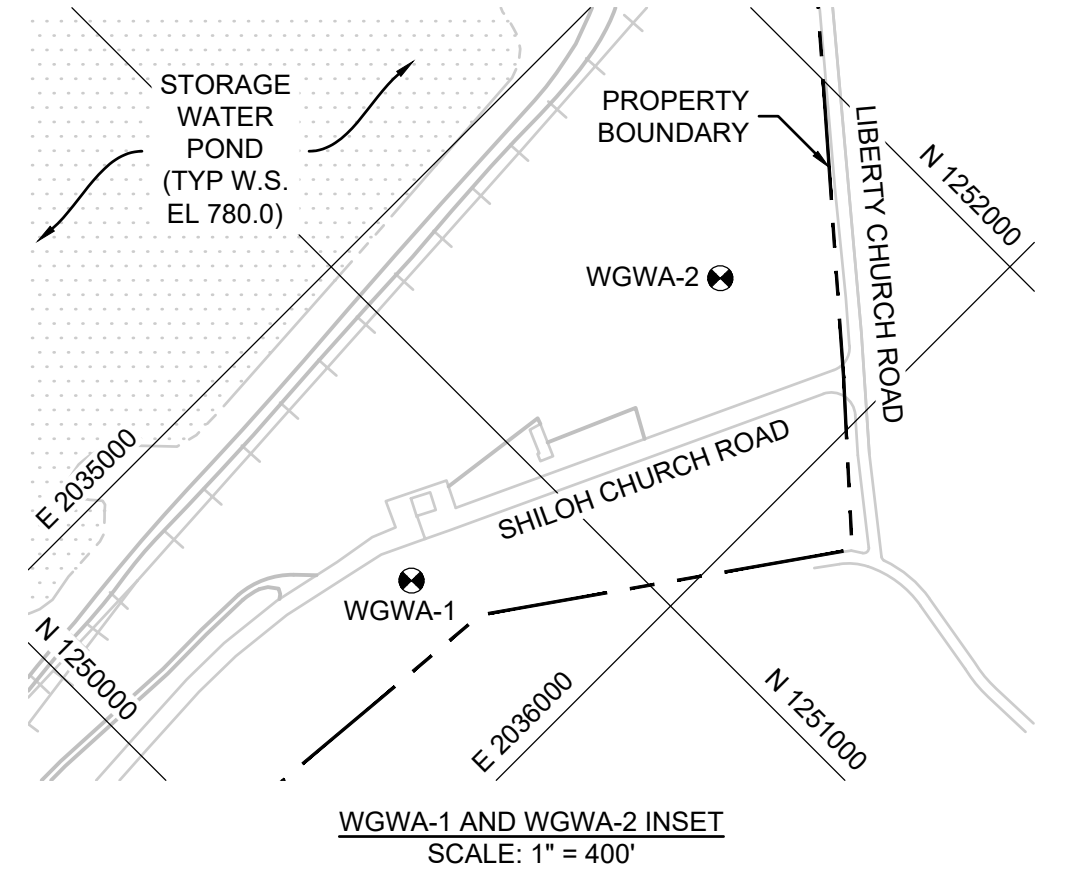


0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP
PROPERTY BOUNDARY SURVEY AND LEGAL DESCRIPTION				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
Geosyntec consultants 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.8500 WWW.GEOSYNTEC.COM			 No. PE943417 PROFESSIONAL ENGINEER JEREMY GASSER	
PROJ. NO.	GW9155	DWG.	GW7306.13-C03	EDIT
SCALE	AS SHOWN	DRAWING 03 OF 22		
DATE	FEBRUARY 2025			

C:_GEO-ACC\ACCDCS\GEO5\INTC-SPLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\013DWG\SH7306.13-C03



ID	NORTHING	EASTING	PURPOSE
PZ-01	1240249.86	2022319.93	PIEZOMETER
PZ-04	1242592.03	2023595.91	PIEZOMETER
PZ-06	1244382.89	2024661.39	PIEZOMETER
PZ-08	1245514.59	2026807.30	PIEZOMETER
PZ-16	1239419.77	2023662.22	PIEZOMETER
PZ-17	1239270.02	2023086.50	PIEZOMETER
PZ-18	1239569.52	2022299.20	PIEZOMETER
PZ-23D	1242139.53	2028520.87	PIEZOMETER
PZ-26D	1239919.45	2024146.35	ASSESSMENT
PZ-27D	1240190.93	2023620.36	PIEZOMETER
PZ-28	1240066.02	2022624.73	PIEZOMETER
PZ-30	1240592.30	2027321.68	PIEZOMETER
PZ-31	1239941.77	2024324.33	PIEZOMETER
PZ-32D	1243211.88	2029886.45	PIEZOMETER
PZ-33D	1243211.76	2029886.78	PIEZOMETER
WAMW-1	1241843.66	2028944.63	ASSESSMENT
WAMW-2	1241547.56	2028806.27	PIEZOMETER
WGWA-1	1250656.10	2035580.71	UPGRADIENT
WGWA-2	1251556.40	2035590.11	UPGRADIENT
WGWA-3	1240848.21	2022350.10	UPGRADIENT
WGWA-4	1240879.58	2022339.66	UPGRADIENT
WGWA-5	1241997.94	2022368.85	PIEZOMETER
WGWA-6	1241932.02	2022360.58	UPGRADIENT
WGWA-7	1243338.63	2023843.81	UPGRADIENT
WGWA-8	1244592.56	2025580.71	UPGRADIENT
WGWC-8	1242929.40	2029644.58	DOWNGRADIENT
WGWC-9	1242801.12	2029115.75	DOWNGRADIENT
WGWC-10	1240971.96	2026725.61	DOWNGRADIENT
WGWC-11	1240860.18	2025773.39	DOWNGRADIENT
WGWC-12	1240827.68	2025755.99	DOWNGRADIENT
WGWC-13	1240610.93	2024585.91	DOWNGRADIENT
WGWC-14	1240621.86	2024584.92	PIEZOMETER
WGWC-14A	1240604.54	2024599.63	DOWNGRADIENT
WGWC-15	1240483.16	2023912.92	DOWNGRADIENT
WGWC-16	1240480.46	2023903.77	DOWNGRADIENT
WGWC-17	1240052.06	2022623.82	DOWNGRADIENT
WGWC-19	1241851.51	2028949.19	DOWNGRADIENT
WGWC-20	1243350.76	2029769.43	DOWNGRADIENT
WGWC-21	1242139.33	2028512.65	DOWNGRADIENT
WGWC-22	1241695.25	2028116.05	DOWNGRADIENT
WGWC-23	1240769.79	2027414.58	DOWNGRADIENT
WGWC-24	1239916.68	2024139.82	DOWNGRADIENT
WGWC-25	1240184.18	2023616.69	DOWNGRADIENT
WGWC-26D	1243343.66	2029758.85	PIEZOMETER
WGWC-27	1243215.51	2029878.92	ASSESSMENT
WGWC-28D	1243337.13	2029751.04	ASSESSMENT
WGWC-30	1240037.93	2022632.36	DOWNGRADIENT
WGWC-31D	1240830.49	2027170.46	DOWNGRADIENT
WGWC-31S	1240822.00	2027168.63	DOWNGRADIENT
WGWC-32	1241724.07	2028125.24	DOWNGRADIENT
WGWC-33	1242764.54	2029104.51	DOWNGRADIENT
WGWC-34D	1245312.52	2027813.20	DOWNGRADIENT
WGWC-34S	1245312.52	2027813.20	DOWNGRADIENT
WGWC-35D	1244976.65	2028150.22	DOWNGRADIENT
WGWC-35S	1244976.65	2028150.22	DOWNGRADIENT
WGWC-36S	1244514.98	2028598.55	DOWNGRADIENT
WGWC-36D	1244514.98	2028598.55	DOWNGRADIENT
WGWC-37D (NOTE 5)	1244304.90	2028853.29	DOWNGRADIENT
WGWC-37S (NOTE 5)	1244317.13	2028839.68	DOWNGRADIENT
WGWC-38D	1243849.90	2029292.20	DOWNGRADIENT
WGWC-38S	1243849.90	2029292.20	DOWNGRADIENT
WGWC-39 (NOTE 5)	1240457.61	2025105.38	DOWNGRADIENT
WGWC-40 (NOTE 5)	1240837.96	2026731.01	DOWNGRADIENT
WGWC-41 (NOTE 5)	1242058.41	2028554.29	DOWNGRADIENT
WGWC-42 (NOTE 5)	1243496.86	2030132.73	DOWNGRADIENT



- NOTES:
- SEE DRAWING 02 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - PIEZOMETER LOCATIONS ARE FOR GROUNDWATER LEVEL MEASUREMENTS ONLY.
 - PZ-11, PZ-13, AND PZ-21 HAVE BEEN ABANDONED.
 - LOCATIONS FOR WGWC-30, WGWC-31S/D, WGWC-32, WGWC-33, WGWC-34S/D, WGWC-35S/D, WGWC-36S/D, AND WGWC-38S/D ARE PROPOSED AND WILL BE INSTALLED BETWEEN DECEMBER 2024 AND FEBRUARY 2025.
 - SIX PIEZOMETERS WILL BE RECLASSIFIED AS DETECTION MONITORING WELLS AND INCORPORATED INTO THE DETECTION MONITORING NETWORK INCLUDING WGWC-41 (PZ-10), WGWC-40 (PZ-12), WGWC-39 (PZ-15), WGWC-42 (PZ-20), WGWC-37S (PZ-29S), AND WGWC-37D (PZ-29D) IN FEBRUARY 2025.

01 TABLE
04 GROUNDWATER MONITORING WELL LOCATIONS

REV	DATE	DESCRIPTION	DLJ	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS		

SITE GROUNDWATER MONITORING PLAN

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
HEARD AND CARROLL COUNTIES, GEORGIA

Geosyntec consultants

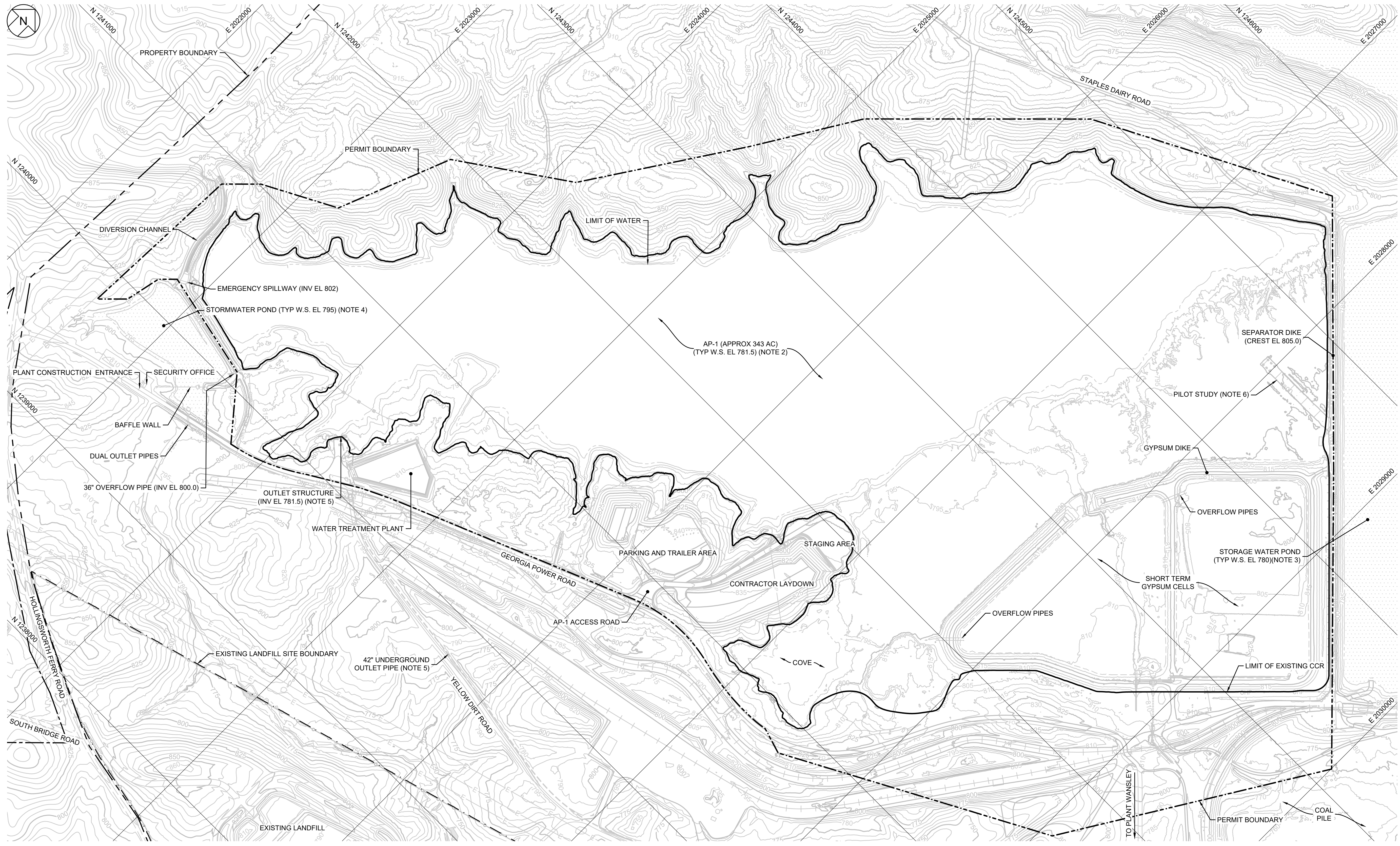
Georgia Power

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.8500
WWW.GEOSYNTEC.COM

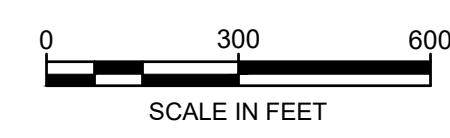
PROJ. NO. GW9155 DWG. GW7306.13-C04 EDIT 1/23/25
SCALE AS SHOWN
DATE FEBRUARY 2025

DRAWING 04 OF 22

C:\GEO-ACC\CCDCS\GEO\SYNTEC\SP\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01DWG\SH\TGW7306.13-C04



- NOTES:
- SEE DRAWING 02 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.
 - ACREAGE PRESENTED WITHIN AP-1 REPRESENTS THE AREA WITHIN THE LIMIT OF EXISTING CCR.
 - WATER WITHIN THE STORAGE WATER POND IS NON-CONTACT WATER.
 - WATER WITHIN THE STORMWATER POND TO THE WEST OF AP-1 IS NON-CONTACT WATER. THIS POND IS FED AND DISCHARGES SURFACE WATER FROM OFFSITE.
 - CONCRETE OUTLET STRUCTURE CONTAINS ORIFICES CONTROLLED BY SLUICE GATES, WHICH WILL BE CLOSED DURING AP-1 CLOSURE CONSTRUCTION. IN ACCORDANCE WITH THE GA EPD APPROVED ASH POND DEWATERING PERMIT, DISCHARGES FROM AP-1 DURING CONSTRUCTION WILL BE ROUTED THROUGH THE WATER TREATMENT PLANT AND THEN CONVEYED BY THE 42-INCH PIPE TO THE PLANT POND. THE STORMWATER RETENTION POND IS SAMPLED IN ACCORDANCE WITH THE NPDES PERMIT (GA0026778) AND DISCHARGED THROUGH PERMITTED OUTFALL 01 TO THE CHATTAHOOCHEE RIVER.
 - PILOT STUDY AREA INCLUDES CCR THAT WAS PREVIOUSLY STABILIZED WITH PORTLAND CEMENT AS WELL AS GAB. BOTH WILL BE REMOVED DURING CONSTRUCTION.



C:_GEO-ACC\DCDC\GEO\INT\EC-SD\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGS\HT\GW7306.13-C05



REV	DATE	DESCRIPTION	DLJ	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG

EXISTING SITE CONDITIONS - TOPOGRAPHY AND AP-1 BATHYMETRY

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
HEARD AND CARROLL COUNTIES, GEORGIA

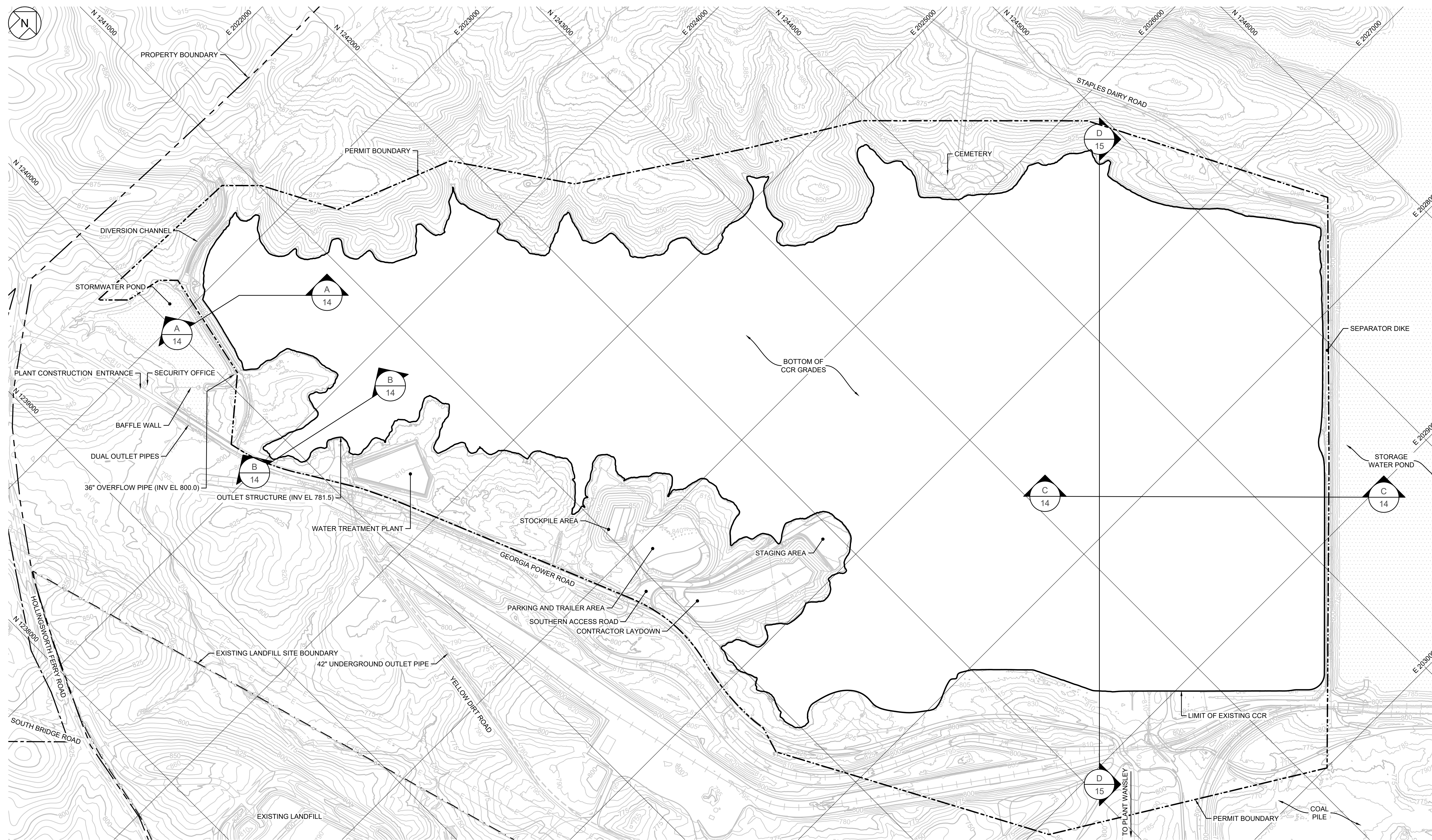
Geosyntec
consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.8500
WWW.GEOSYNTEC.COM

Georgia Power

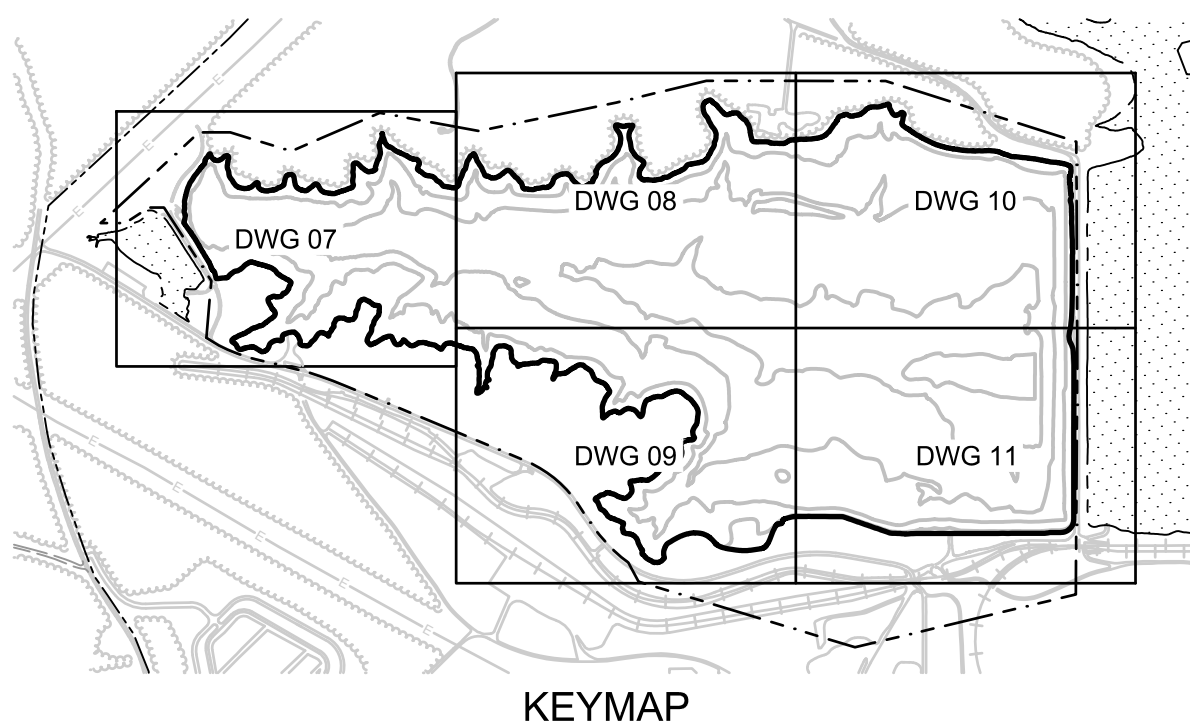
PROJ. NO.	GW9155	DWG.	GW7306.13-C05	EDIT	5/7/24
SCALE	AS SHOWN				
DATE	FEBRUARY 2025	DRAWING 05 OF 22			

C:_GEO-ACC\ACCDCS\GEOINT\DC-SP\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\TGW7306.13-C06



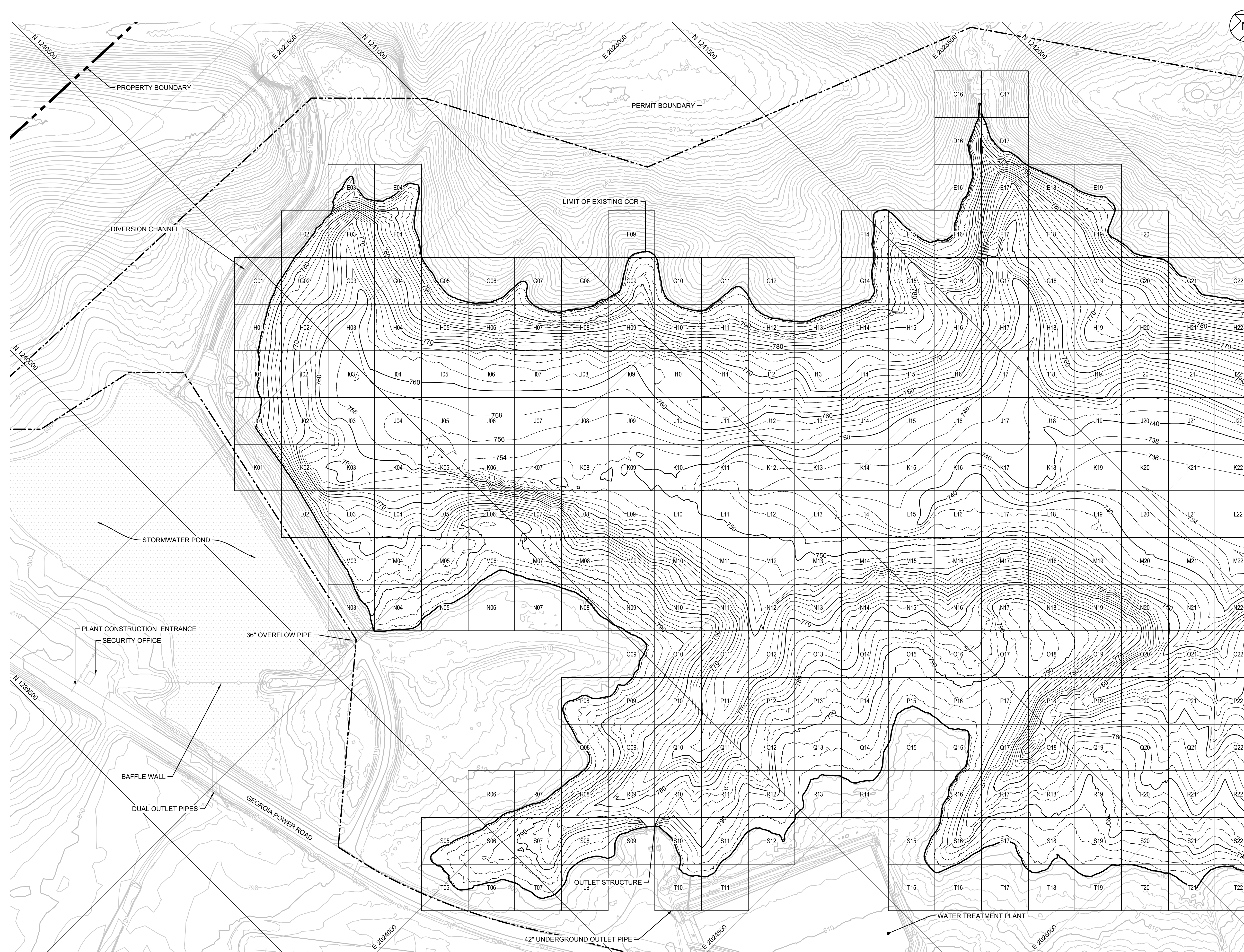
NOTES:

- PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1. ADDITIONAL 6-INCHES OF REMOVAL NOT SHOWN FOR CLARITY.
- LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS TO BE FIELD VERIFIED DURING CONSTRUCTION.
- BULK OF CCR REMOVAL MAY BE ACHIEVED BY CONTRACTOR MEANS AND METHODS (E.G. CONVENTIONAL EXCAVATION OR DREDGING). FINAL REMOVAL OF CCR AND VERIFICATION OF REMOVAL WILL BE COMPLETED IN THE DRY VIA CONVENTIONAL EXCAVATION.
- GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN AND CONTRACTOR WORK PLANS.
- CCR VERIFICATION OF REMOVAL WILL BE COMPLETED BY THE CQA CONSULTANT ON A 100-FT BY 100-FT GRID SYSTEM. FOLLOWING VERIFICATION OF CCR REMOVAL, THE CONTRACTOR WILL REMOVE 6-INCHES OF NATIVE SOIL AND CQA CONSULTANT WILL AGAIN COMPLETE THE VERIFICATION PROCESS TO CERTIFY CCR REMOVAL.
- 100-FT BY 100-FT GRID SYSTEM IS NOT SHOWN ON THIS DRAWING FOR CLARITY. SEE DRAWINGS 07 THROUGH 11.



REV	DATE	DESCRIPTION	DLJ	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
CCR REMOVAL PLAN - OVERVIEW				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
Geosyntec consultants			Georgia Power	
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA			PHONE: 678.202.8500 WWW.GEOSYNTEC.COM	
PROJ. NO.	GW9155	DWG. GW7306.13-C06	EDIT	5/7/24
SCALE	AS SHOWN			
DATE	FEBRUARY 2025			
DRAWING 06 OF 22				

C:_GEO-ACC\ACCDCS\GEO\NTEC-SO\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\TGW7306.13-C07



MATCHLINE - DRAWING 08

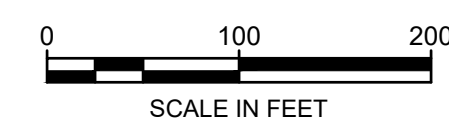
MATCHLINE - DRAWING 09

- NOTES:
1. PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1. ADDITIONAL 6-INCHES OF REMOVAL NOT SHOWN FOR CLARITY.
 2. LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS TO BE FIELD VERIFIED DURING CONSTRUCTION.
 3. BULK OF CCR REMOVAL MAY BE ACHIEVED BY CONTRACTOR MEANS AND METHODS (E.G., CONVENTIONAL EXCAVATION OR DREDGING). FINAL REMOVAL OF CCR AND VERIFICATION OF REMOVAL WILL BE COMPLETED IN THE DRY VIA CONVENTIONAL EXCAVATION.
 4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN AND CONTRACTOR WORK PLANS.
 5. CCR VERIFICATION OF REMOVAL WILL BE COMPLETED BY THE COA CONSULTANT ON A 100-FT BY 100-FT GRID SYSTEM. FOLLOWING VERIFICATION OF CCR REMOVAL, THE CONTRACTOR WILL REMOVE 6-INCHES OF NATIVE SOIL AND COA CONSULTANT WILL AGAIN COMPLETE THE VERIFICATION PROCESS TO CERTIFY CCR REMOVAL.

0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP

CCR REMOVAL PLAN - I

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
HEARD AND CARROLL COUNTIES, GEORGIA

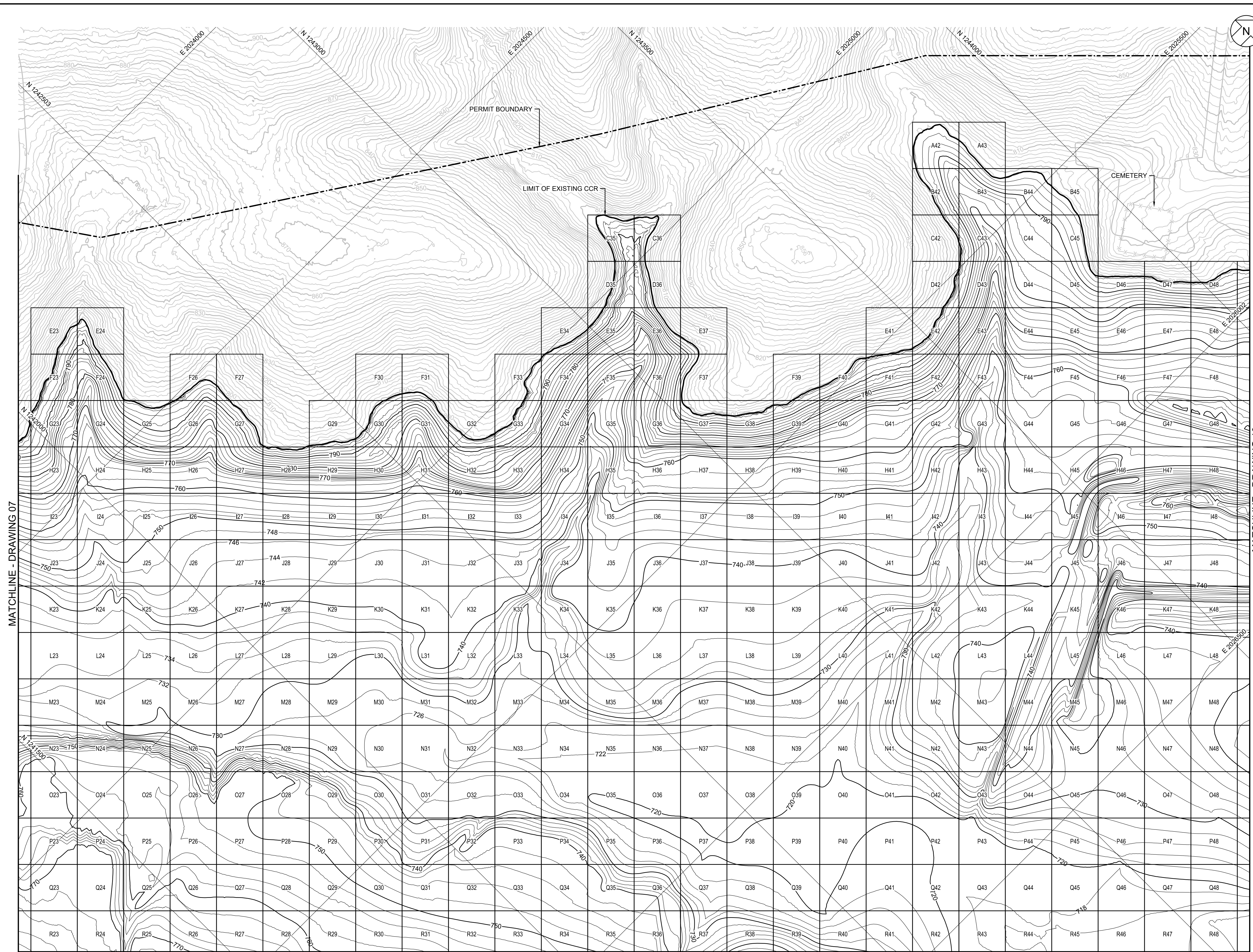


1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA

PHONE: 678.202.8500
WWW.GEOSYNTEC.COM

PROJ. NO.	GW9155	DWG.	GW7306.13-C07	EDIT	5/2/24
SCALE	AS SHOWN	DRAWING 07 OF 22			
DATE	FEBRUARY 2025				

C:_GEO-ACC\CDCCS\GEO\INT-DC\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\DWG\SH\TGW7306.13-C08

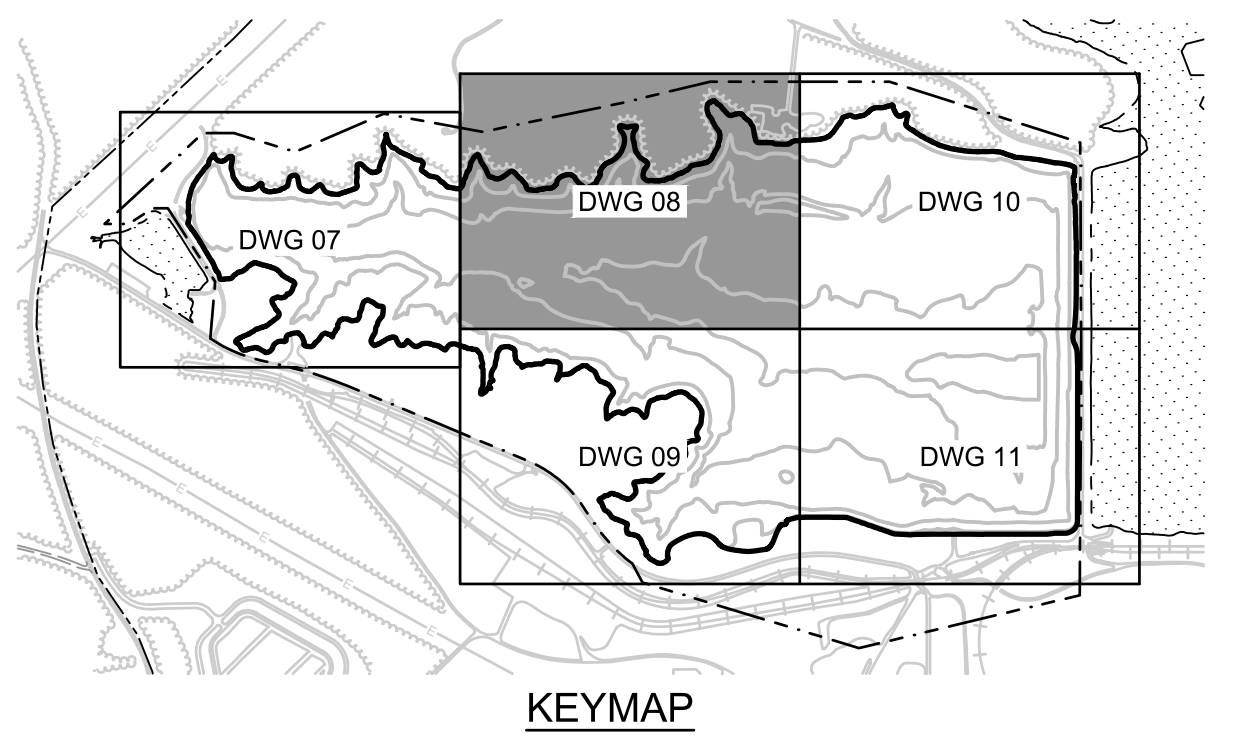


- NOTES:
1. PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1. ADDITIONAL 6-INCHES OF REMOVAL NOT SHOWN FOR CLARITY.
 2. LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS TO BE FIELD VERIFIED DURING CONSTRUCTION.
 3. BULK OF CCR REMOVAL MAY BE ACHIEVED BY CONTRACTOR MEANS AND METHODS (E.G., CONVENTIONAL EXCAVATION OR DREDGING). FINAL REMOVAL OF CCR AND VERIFICATION OF REMOVAL WILL BE COMPLETED IN THE DRY VIA CONVENTIONAL EXCAVATION.
 4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN AND CONTRACTOR WORK PLANS.
 5. CCR VERIFICATION OF REMOVAL WILL BE COMPLETED BY THE COA CONSULTANT ON A 100-FT BY 100-FT GRID SYSTEM. FOLLOWING VERIFICATION OF CCR REMOVAL, THE CONTRACTOR WILL REMOVE 6-INCHES OF NATIVE SOIL AND COA CONSULTANT WILL AGAIN COMPLETE THE VERIFICATION PROCESS TO CERTIFY CCR REMOVAL.

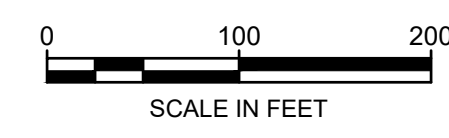
MATCHLINE - DRAWING 07

MATCHLINE - DRAWING 10

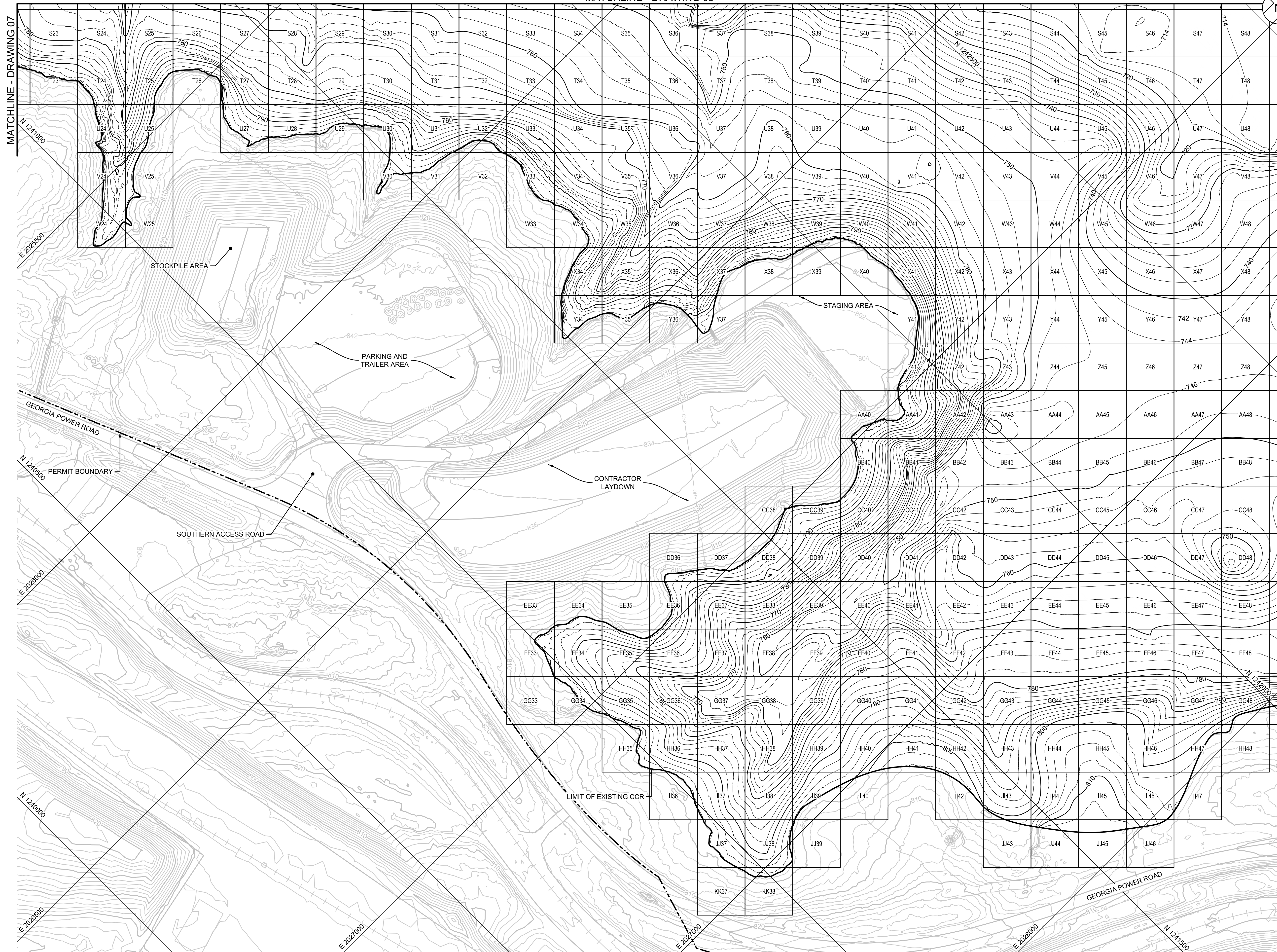
MATCHLINE - DRAWING 09



0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG	
REV	DATE	DESCRIPTION	DRN	APP	
CCR REMOVAL PLAN - II					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants		Georgia Power			
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.8500 WWW.GEOSYNTEC.COM			
PROJ. NO.	GW9155	DWG.	GW7306.13-C08	EDIT	5/2/24
SCALE	AS SHOWN				
DATE	FEBRUARY 2025				
DRAWING 08 OF 22					

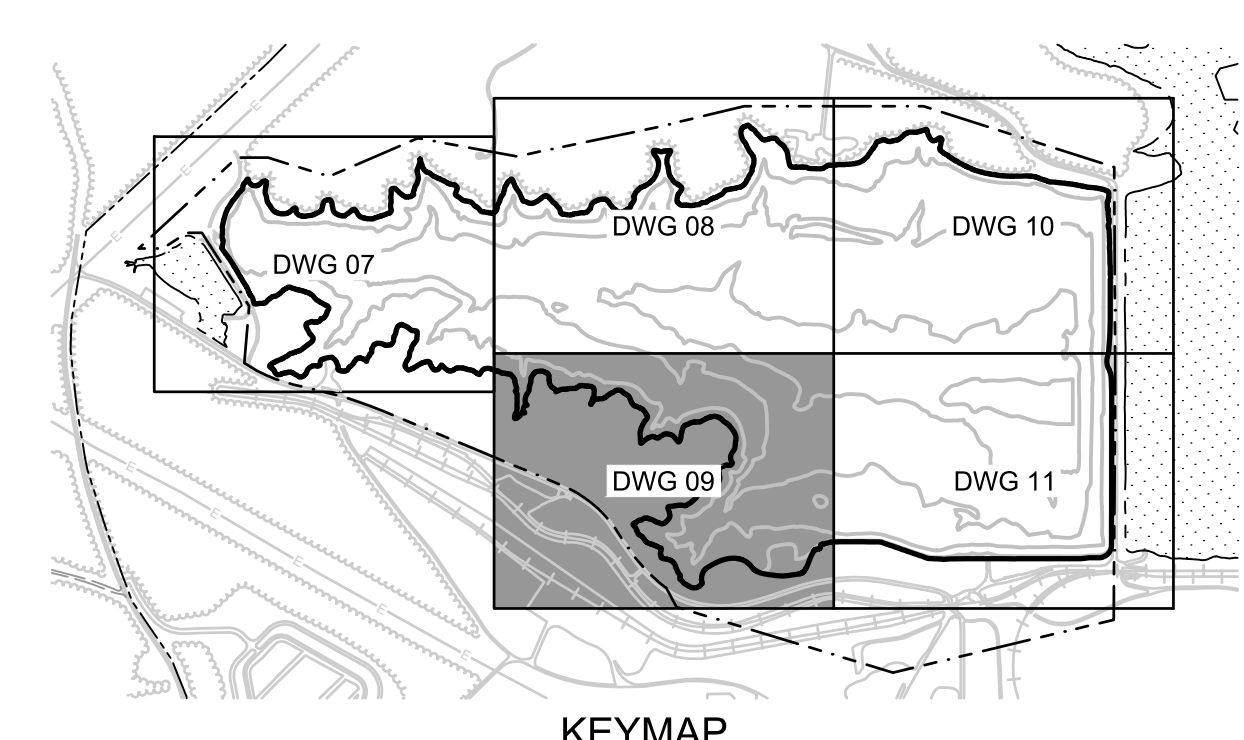


MATCHLINE - DRAWING 08

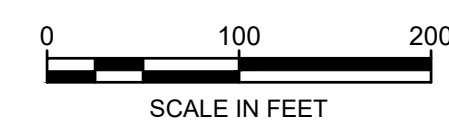


NOTES:

1. PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1. ADDITIONAL 6-INCHES OF REMOVAL NOT SHOWN FOR CLARITY.
2. LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. BULK OF CCR REMOVAL MAY BE ACHIEVED BY CONTRACTOR MEANS AND METHODS (E.G. CONVENTIONAL EXCAVATION OR DREDGING). FINAL REMOVAL OF CCR AND VERIFICATION OF REMOVAL WILL BE COMPLETED IN THE DRY VIA CONVENTIONAL EXCAVATION.
4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN AND CONTRACTOR WORK PLANS.
5. CCR VERIFICATION OF REMOVAL WILL BE COMPLETED BY THE COA CONSULTANT ON A 100-FT BY 100-FT GRID SYSTEM. FOLLOWING VERIFICATION OF CCR REMOVAL, THE CONTRACTOR WILL REMOVE 6-INCHES OF NATIVE SOIL AND COA CONSULTANT WILL AGAIN COMPLETE THE VERIFICATION PROCESS TO CERTIFY CCR REMOVAL.
6. GRID Y37 WAS CERTIFIED FOR CCR REMOVAL DURING EARLY SITE WORK CONSTRUCTION IN 2021. SEE GEOSYNTEC'S CCR REMOVAL CERTIFICATION REPORT DATED 16 JULY 2021 FOR DETAILS.



C:_GEO-ACC\CCDCS\GEO\INT-DC\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\TGW7306.13-C09



REV	DATE	DESCRIPTION	DRN	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG

CCR REMOVAL PLAN - III

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
HEARD AND CARROLL COUNTIES, GEORGIA

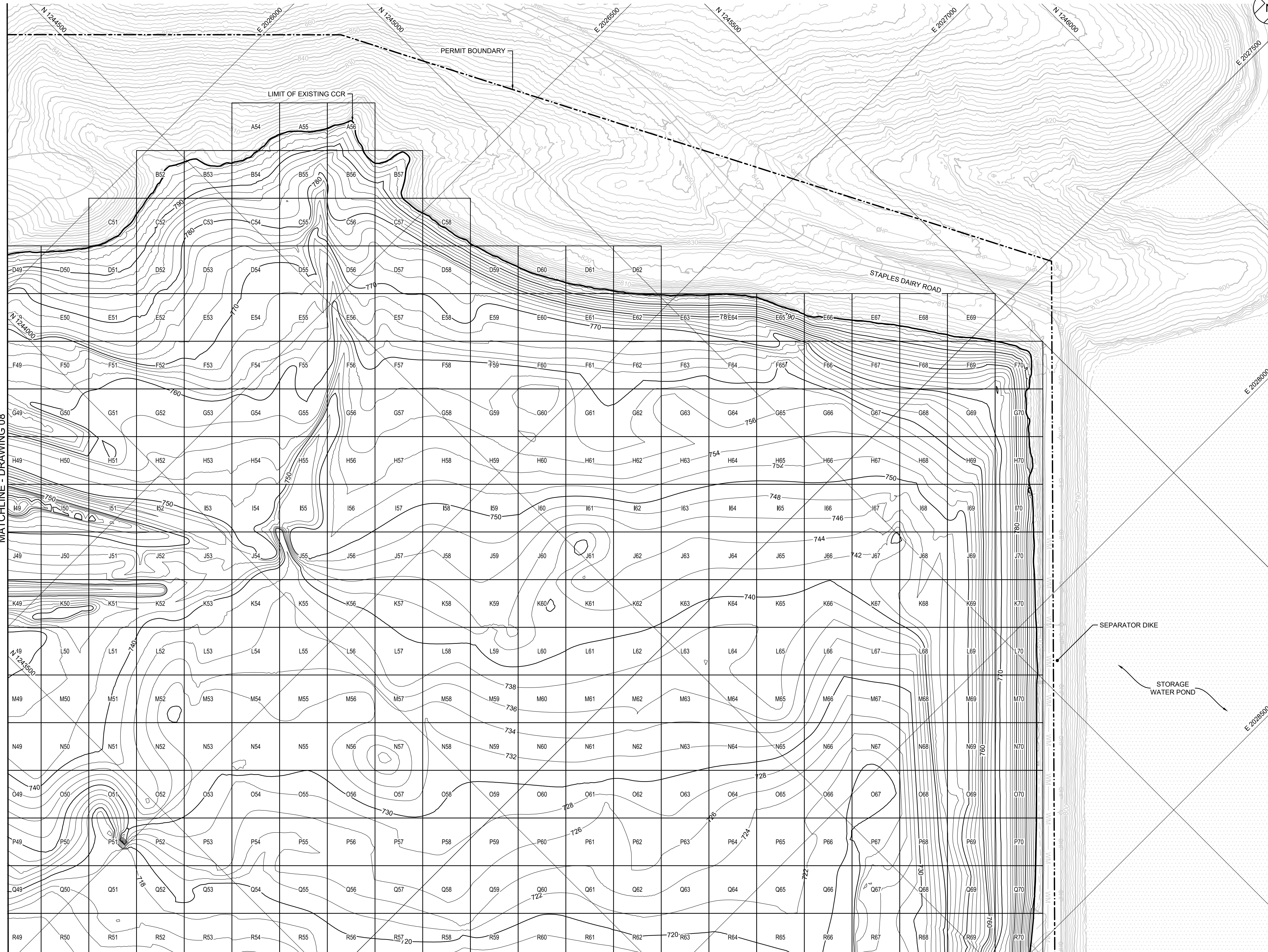
1255 ROBERTS BOULEVARD, NW, SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.8500
WWW.GEOSYNTEC.COM

PROJ. NO.	GW9155	DWG.	GW7306.13-C09	EDIT	5/2/24
SCALE	AS SHOWN	DRAWING 09 OF 22			
DATE	FEBRUARY 2025				

C:_GEO-ACC\DCS\GEO\NTEC\SOIPLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\DWG\SH\TGW7306.13-C10

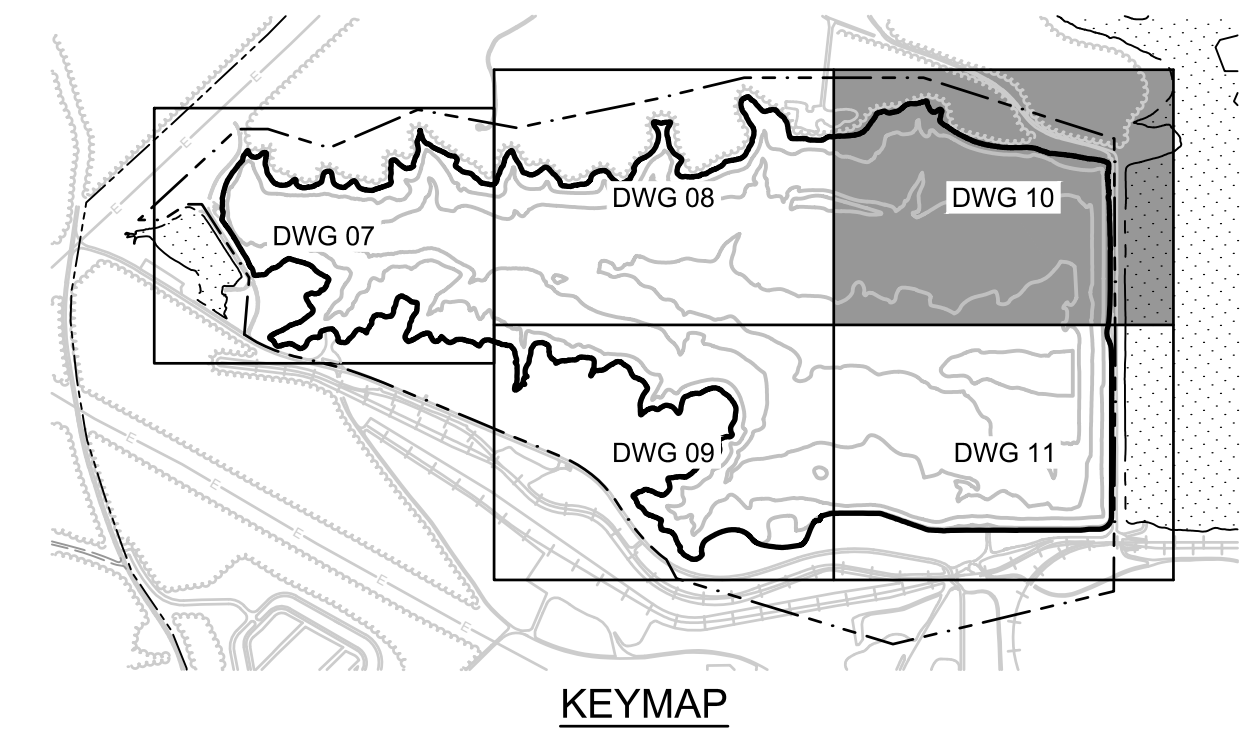
MATCHLINE - DRAWING 08

MATCHLINE - DRAWING 11

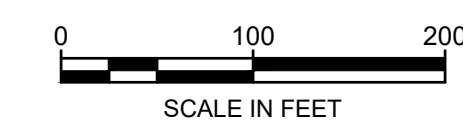


NOTES:

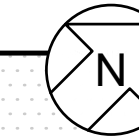
1. PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1. ADDITIONAL 6-INCHES OF REMOVAL NOT SHOWN FOR CLARITY.
2. LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. BULK OF CCR REMOVAL MAY BE ACHIEVED BY CONTRACTOR MEANS AND METHODS (E.G. CONVENTIONAL EXCAVATION OR DREDGING). FINAL REMOVAL OF CCR AND VERIFICATION OF REMOVAL WILL BE COMPLETED IN THE DRY VIA CONVENTIONAL EXCAVATION.
4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN AND CONTRACTOR WORK PLANS.
5. CCR VERIFICATION OF REMOVAL WILL BE COMPLETED BY THE COA CONSULTANT ON A 100-FT BY 100-FT GRID SYSTEM. FOLLOWING VERIFICATION OF CCR REMOVAL, THE CONTRACTOR WILL REMOVE 6-INCHES OF NATIVE SOIL AND COA CONSULTANT WILL AGAIN COMPLETE THE VERIFICATION PROCESS TO CERTIFY CCR REMOVAL.



0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG	
REV	DATE	DESCRIPTION	DRN	APP	
CCR REMOVAL PLAN - IV					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants		Georgia Power			
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.8500 WWW.GEOSYNTEC.COM			
PROJ. NO.	GW9155	DWG.	GW7306.13-C10	EDIT	5/2/24
SCALE	AS SHOWN				DRAWING 10 OF 22
DATE	FEBRUARY 2025				



MATCHLINE - DRAWING 10

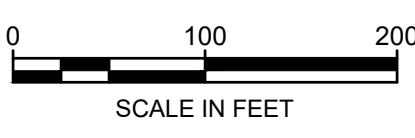
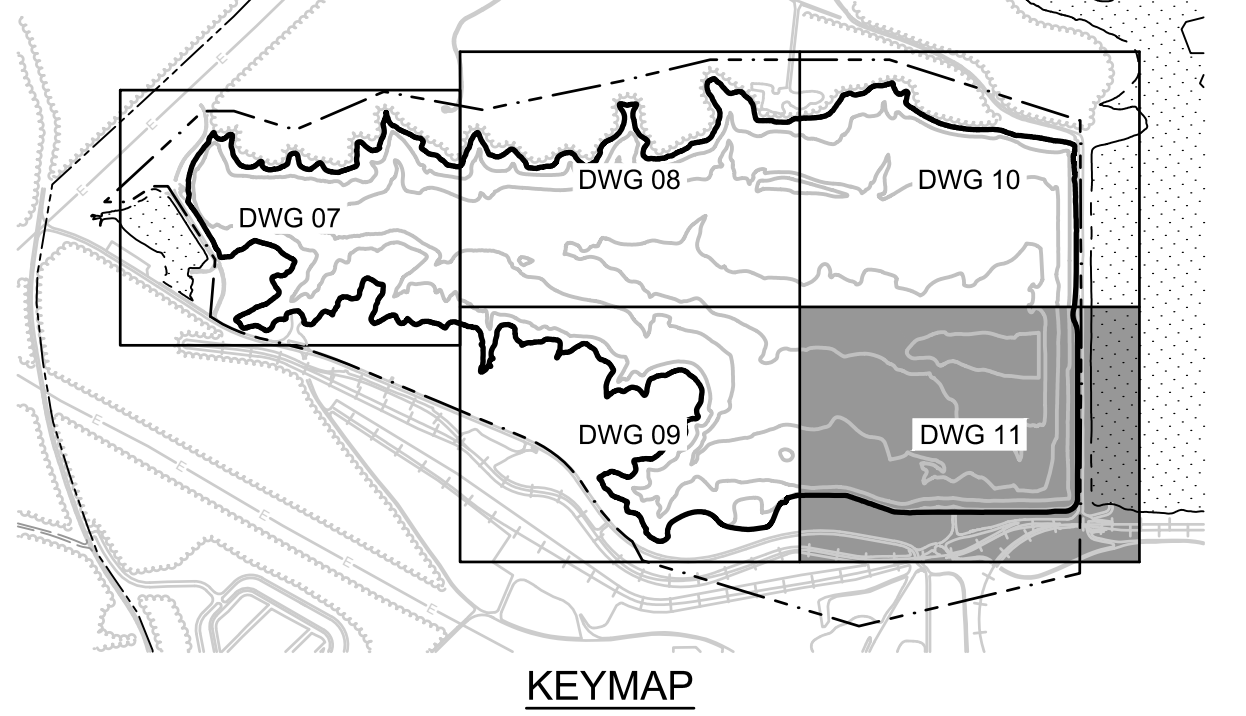
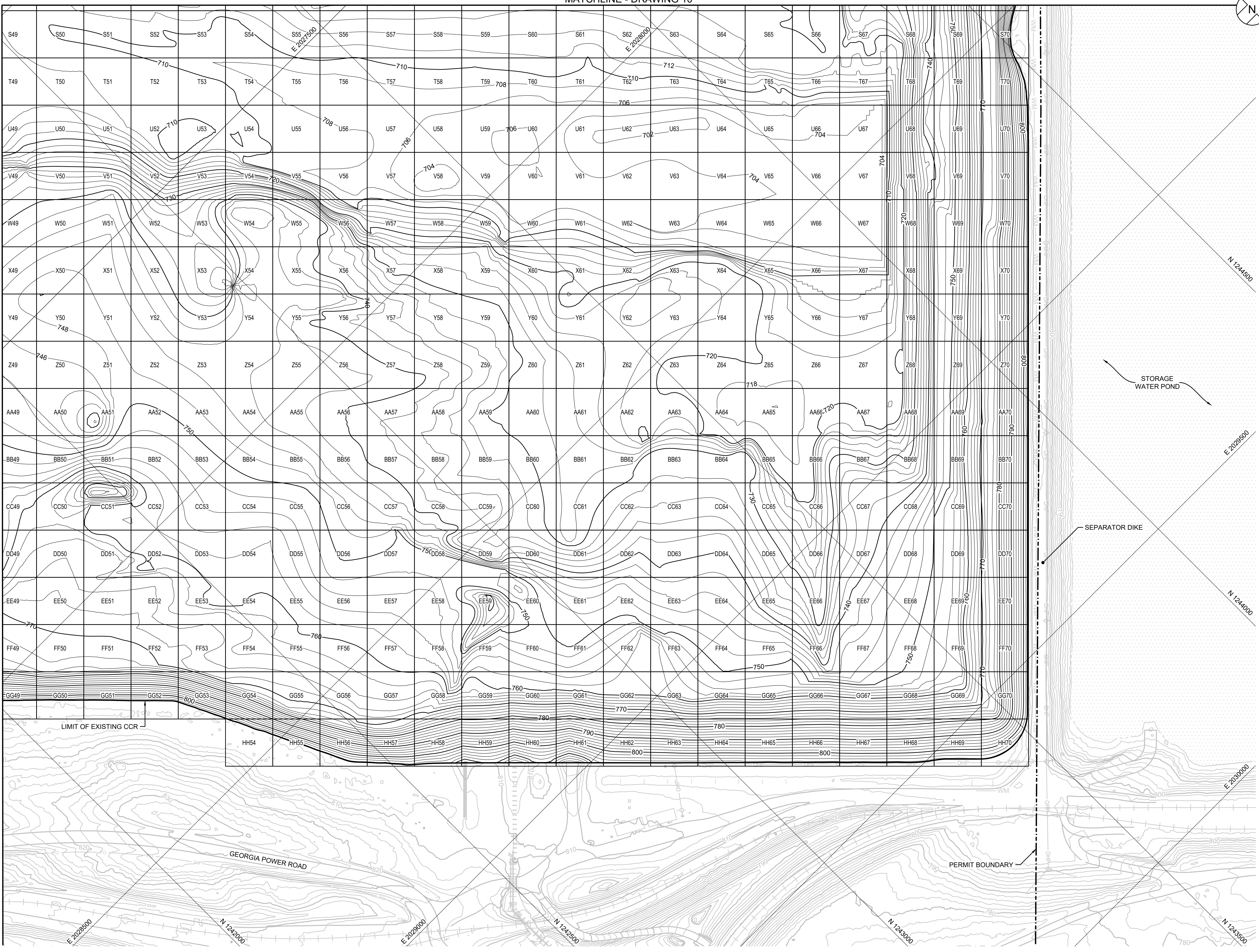


NOTES:

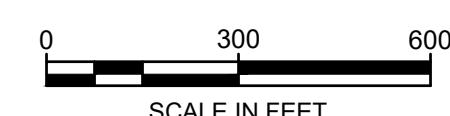
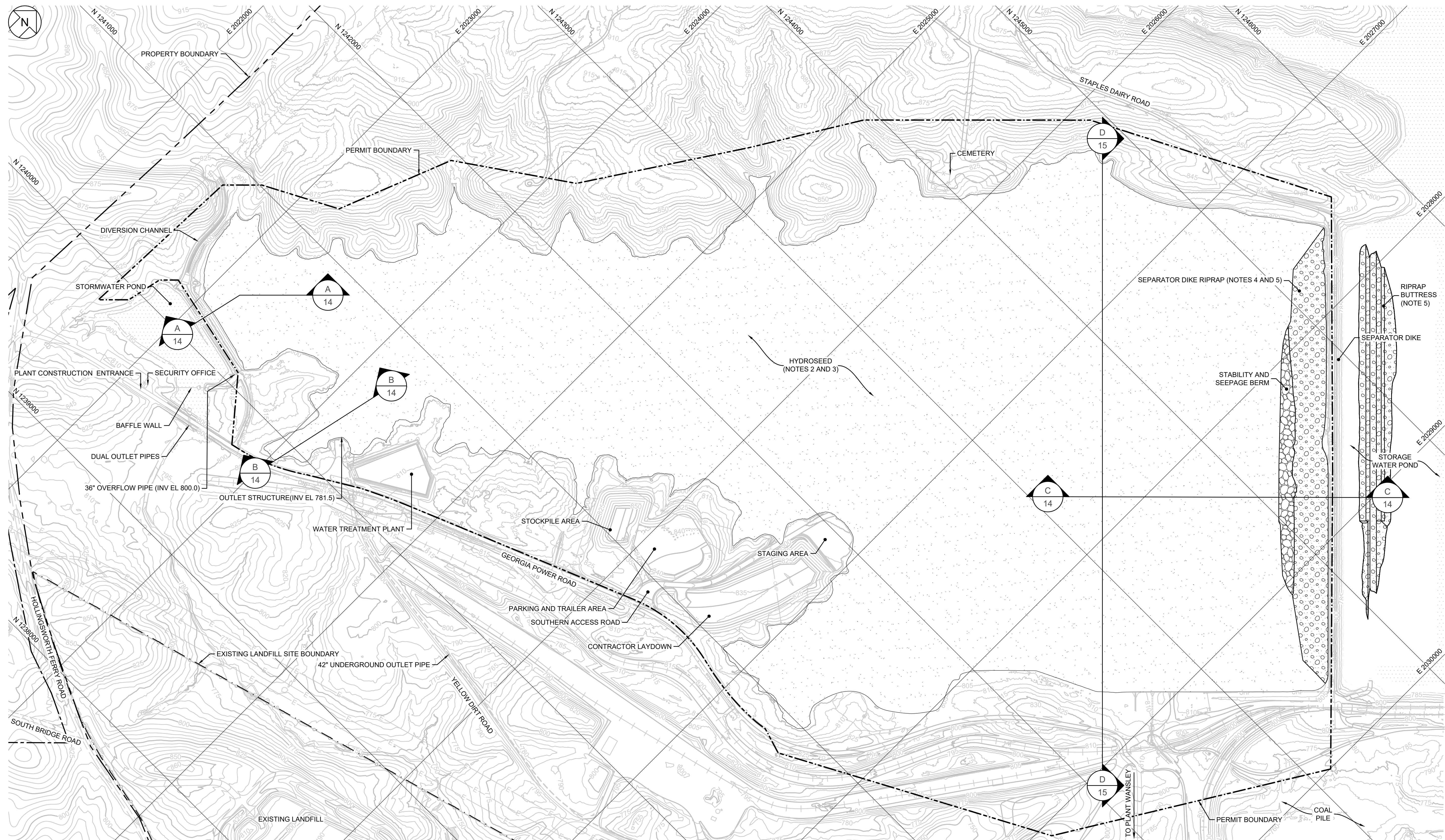
1. PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1. ADDITIONAL 6-INCHES OF REMOVAL NOT SHOWN FOR CLARITY.
2. LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. BULK OF CCR REMOVAL MAY BE ACHIEVED BY CONTRACTOR MEANS AND METHODS (E.G. CONVENTIONAL EXCAVATION OR DREDGING). FINAL REMOVAL OF CCR AND VERIFICATION OF REMOVAL WILL BE COMPLETED IN THE DRY VIA CONVENTIONAL EXCAVATION.
4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN AND CONTRACTOR WORK PLANS.
5. CCR VERIFICATION OF REMOVAL WILL BE COMPLETED BY THE COA CONSULTANT ON A 100-FT BY 100-FT GRID SYSTEM. FOLLOWING VERIFICATION OF CCR REMOVAL, THE CONTRACTOR WILL REMOVE 6-INCHES OF NATIVE SOIL AND COA CONSULTANT WILL AGAIN COMPLETE THE VERIFICATION PROCESS TO CERTIFY CCR REMOVAL.

MATCHLINE - DRAWING 09

C:_GEO-ACC\DCS\GEO\NTEC\SOIPLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\TGW7306.13-C11



0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP
CCR REMOVAL PLAN - V				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
Geosyntec consultants				
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.8500 WWW.GEOSYNTEC.COM		
PROJ. NO.	GW9155	DWG.	GW7306.13-C11	EDIT
SCALE	AS SHOWN	DRAWING 11 OF 22		
DATE	FEBRUARY 2025			



NOTES:

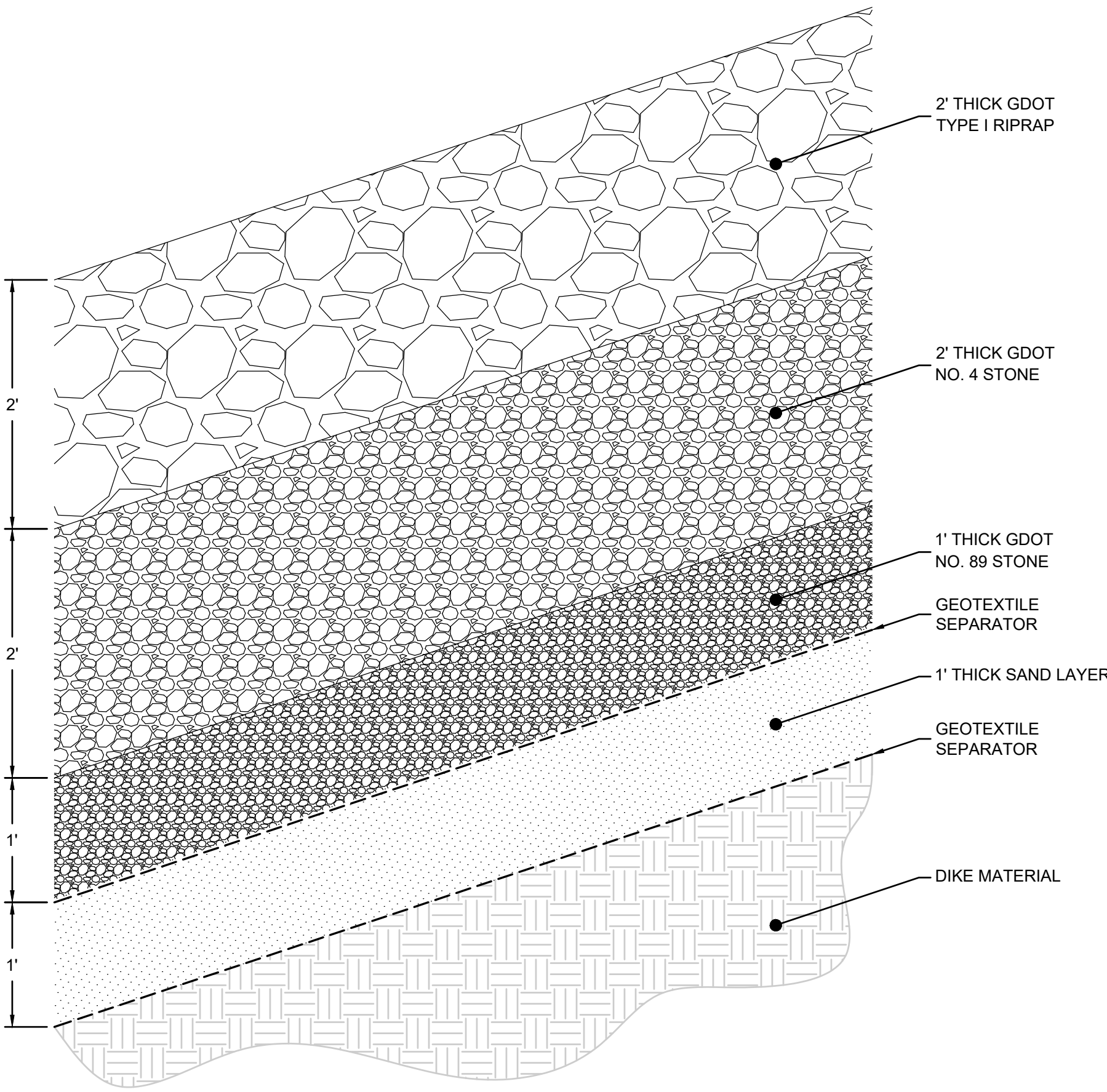
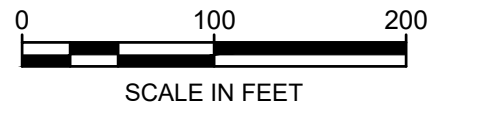
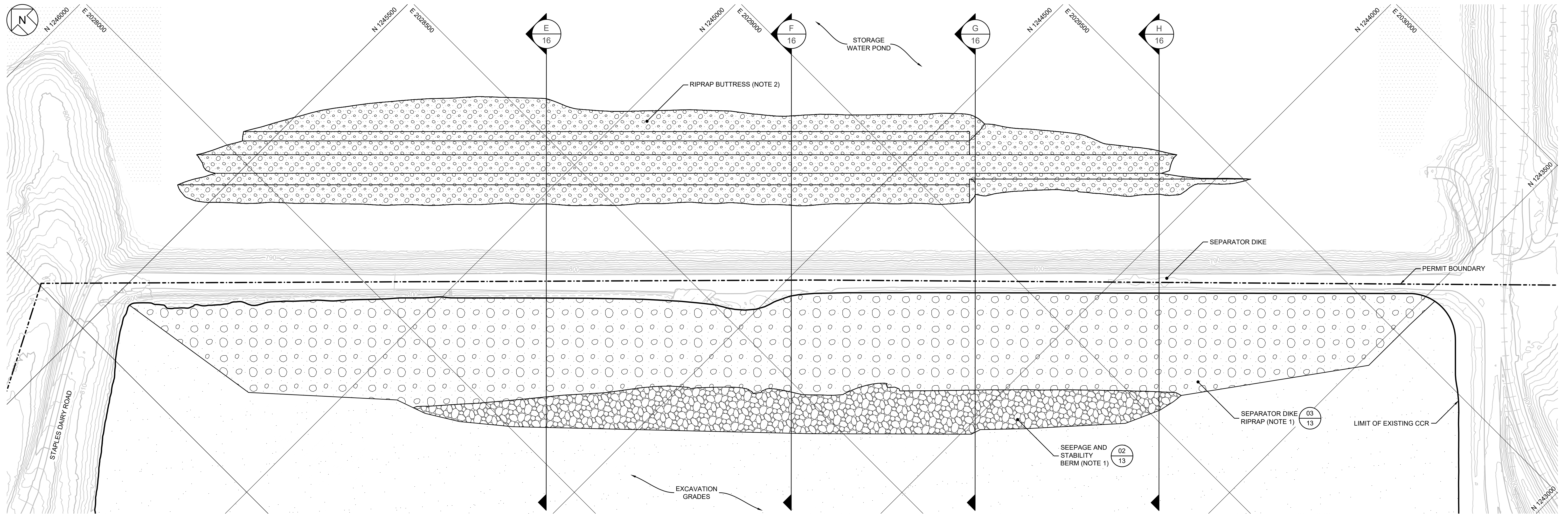
1. FOLLOWING COMPLETION OF CONTRACTOR'S WORK, THE FORMER AP-1 WILL NATURALLY REFILL WITH WATER TO A LEVEL OF 781.5 FT. ANY DIVERSION BERMS THAT THE CONTRACTOR CONSTRUCTS DURING CONSTRUCTION WILL NEED TO BE REMOVED OR BREACHED BY THE CONTRACTOR AS NECESSARY TO NOT CONTAIN WATER UPGRADIENT OF THE SEPARATOR DIKE.
2. MINOR EARTHWORK ACTIVITIES MAY BE PERFORMED IN LOCALIZED LOW OR STEEP SPOTS TO PROMOTE POSITIVE DRAINAGE AND MINIMIZE EROSION.
3. UPON VERIFICATION OF CCR REMOVAL AND ADDITIONAL 6 INCHES OF SOIL REMOVAL, CONTRACTOR SHALL HYDROSEED THE ENTIRE POND BOTTOM AND SLOPE TO FACILITATE VEGETATIVE GROWTH TO PREVENT EROSION. THIS PROCESS CAN BE COMPLETED IN PHASES AS THE VERIFICATION PROCESS IS COMPLETED.
4. UPON VERIFICATION OF CCR REMOVAL AND ADDITIONAL 6 INCHES OF SOIL REMOVAL FROM AP-1, CONTRACTOR SHALL PLACE RIPRAP DETAILED ALONG THE ENTIRETY OF THE UPSTREAM (AP-1) SIDE OF THE SEPARATOR DIKE.
5. SEE DRAWING 13 FOR DETAILS ON THE SEPARATOR DIKE RIPRAP.



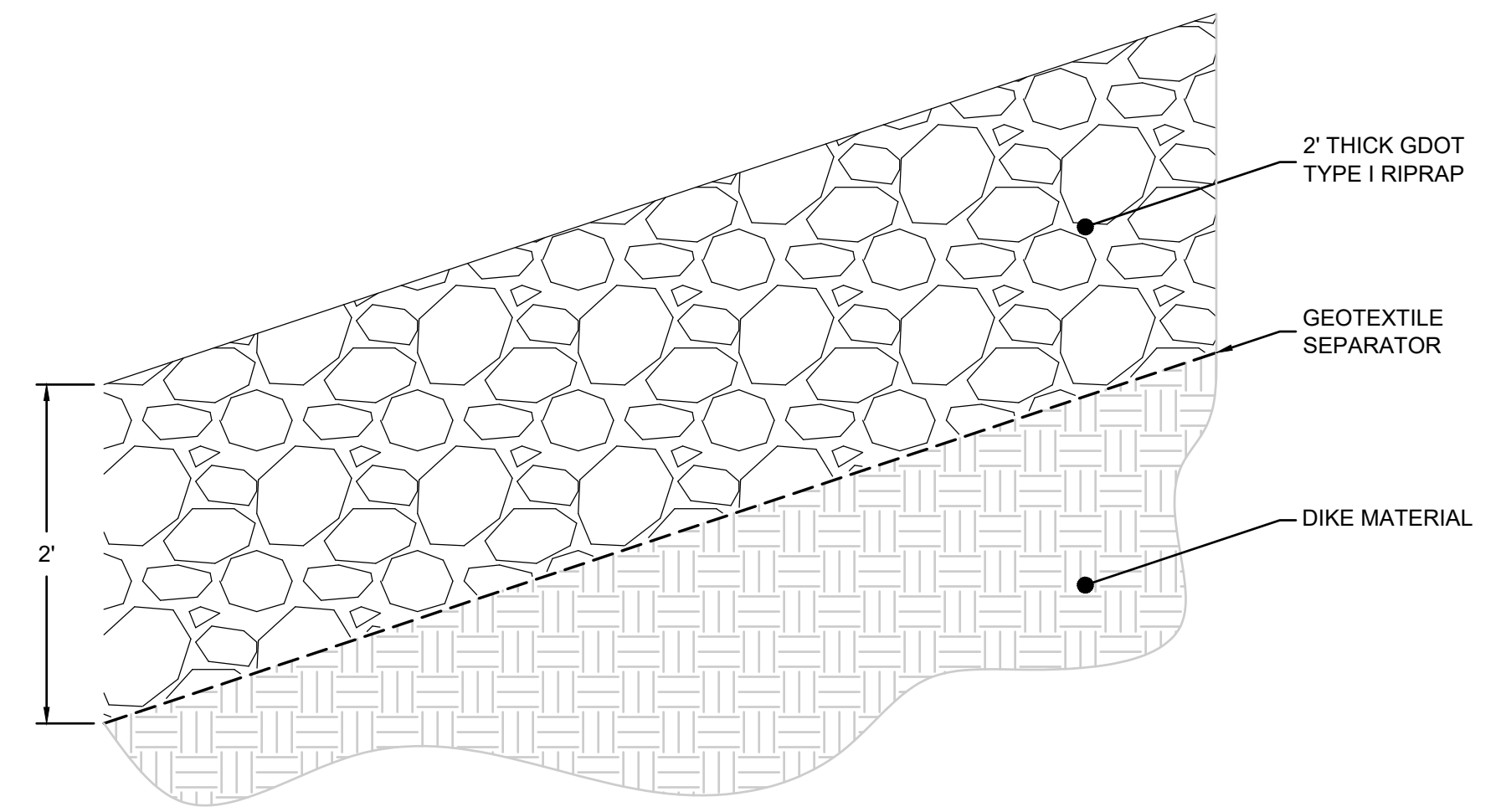
REV	DATE	DESCRIPTION	DRN	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG

SITE RESTORATION GRADING PLAN				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
Geosyntec consultants		Georgia Power		
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.8500 WWW.GEOSYNTEC.COM		
PROJ. NO.	GW9155	DWG.	GW7306.13-C12	EDIT
SCALE	AS SHOWN			
DATE	FEBRUARY 2025	DRAWING 12 OF 22		

C:_GEO-ACC\CCDCS\GEO\INTC-SPI\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\TGW7306.13-C12



02 DETAIL
13 SEEPAGE AND STABILITY BERM
SCALE: 1" = 1'



03 DETAIL
13 SEPARATOR DIKE RIPRAP
SCALE: 1" = 1'

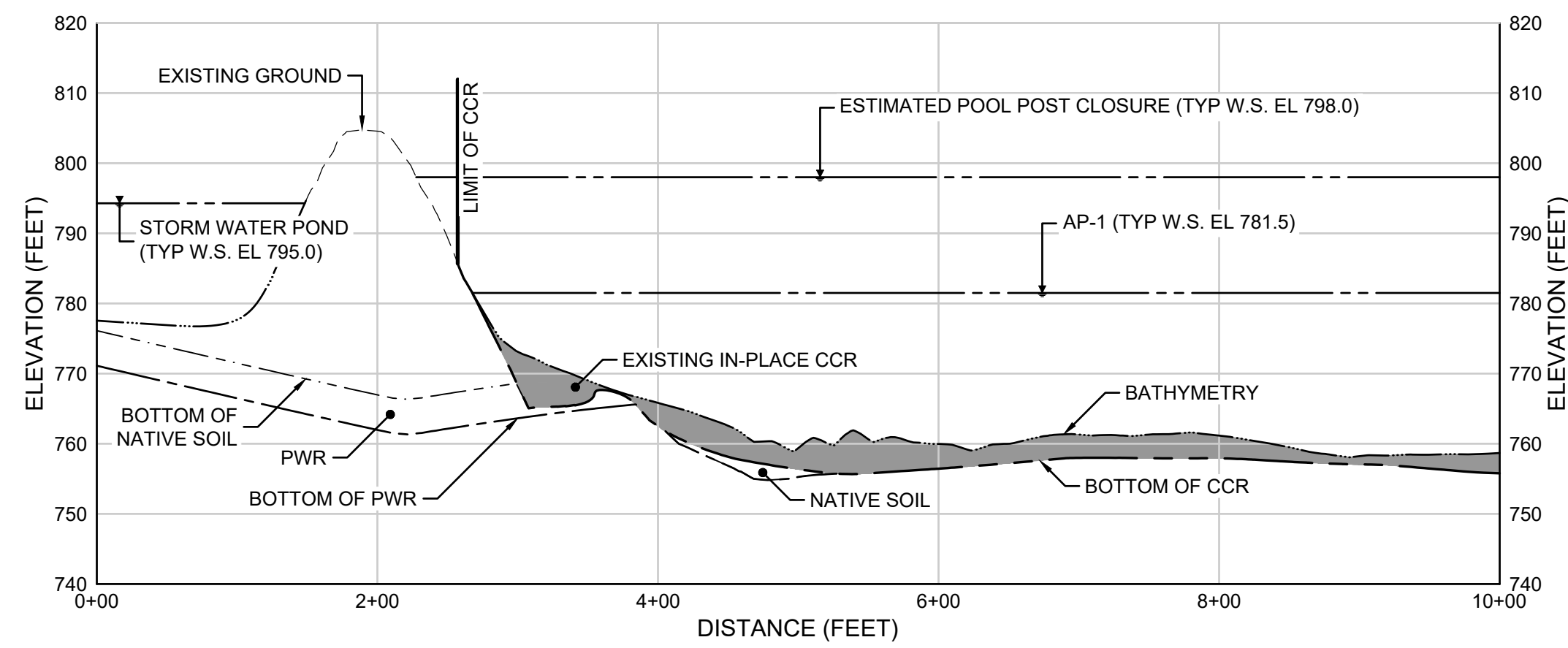
- NOTES:
- ON THE AP-1 SIDE OF THE SEPARATOR DIKE, FOLLOWING VERIFICATION OF CCR REMOVAL AND ADDITIONAL 6 INCHES OF SOIL REMOVAL, CONTRACTOR SHALL INSTALL SEEPAGE BERM AT THE BASE OF THE SEPARATOR DIKE AND RIPRAP ON THE TOP OF SEPARATOR DIKE.
 - AT ANY POINT PRIOR TO COMPLETION OF CONSTRUCTION RIPRAP BUTTRESS SHALL BE INSTALLED IN THE STORAGE WATER SIDE OF THE SEPARATOR DIKE. SEE DRAWING 16 FOR DETAILS ON THIS BUTTRESS.

C:_GEO-ACC\DCS\GEO\INTC-S\PIANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\DWG\SH\TGW7306.13-C13

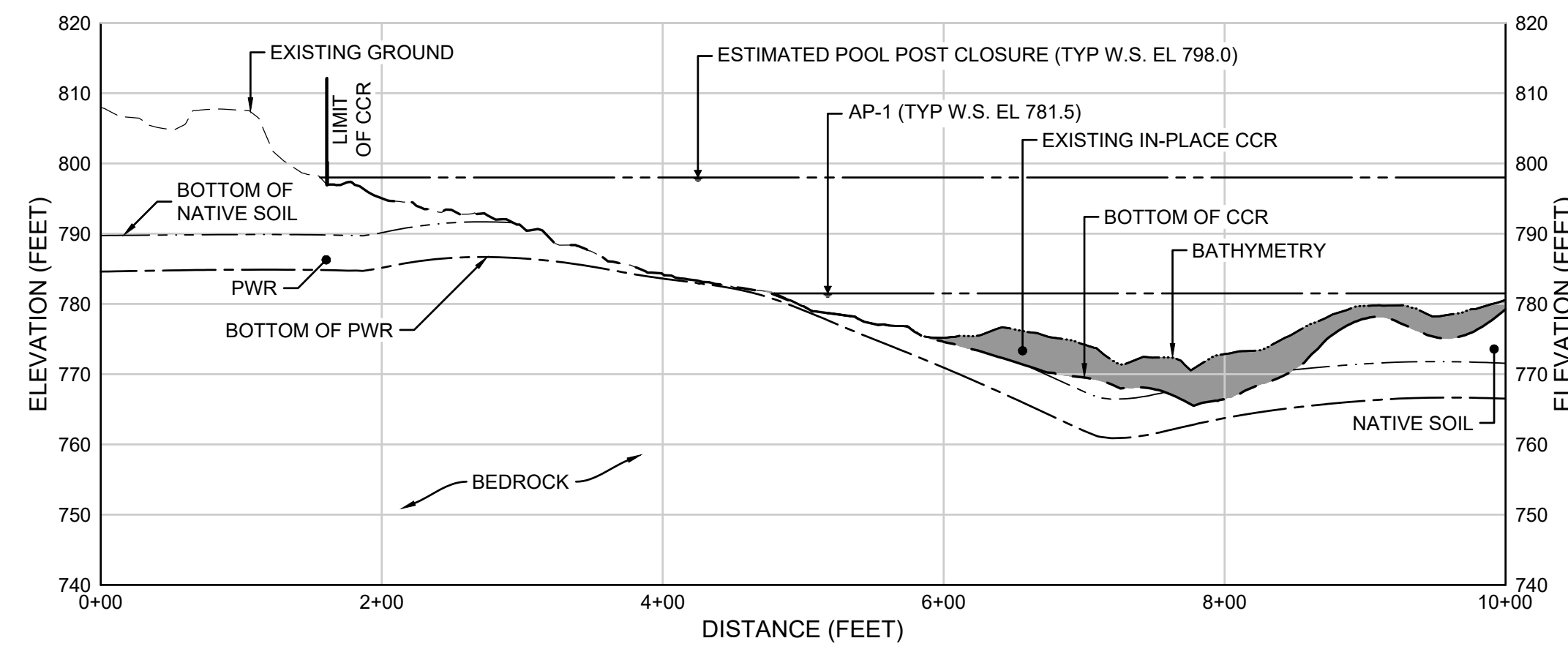


REV	DATE	DESCRIPTION	DLJ	JMG
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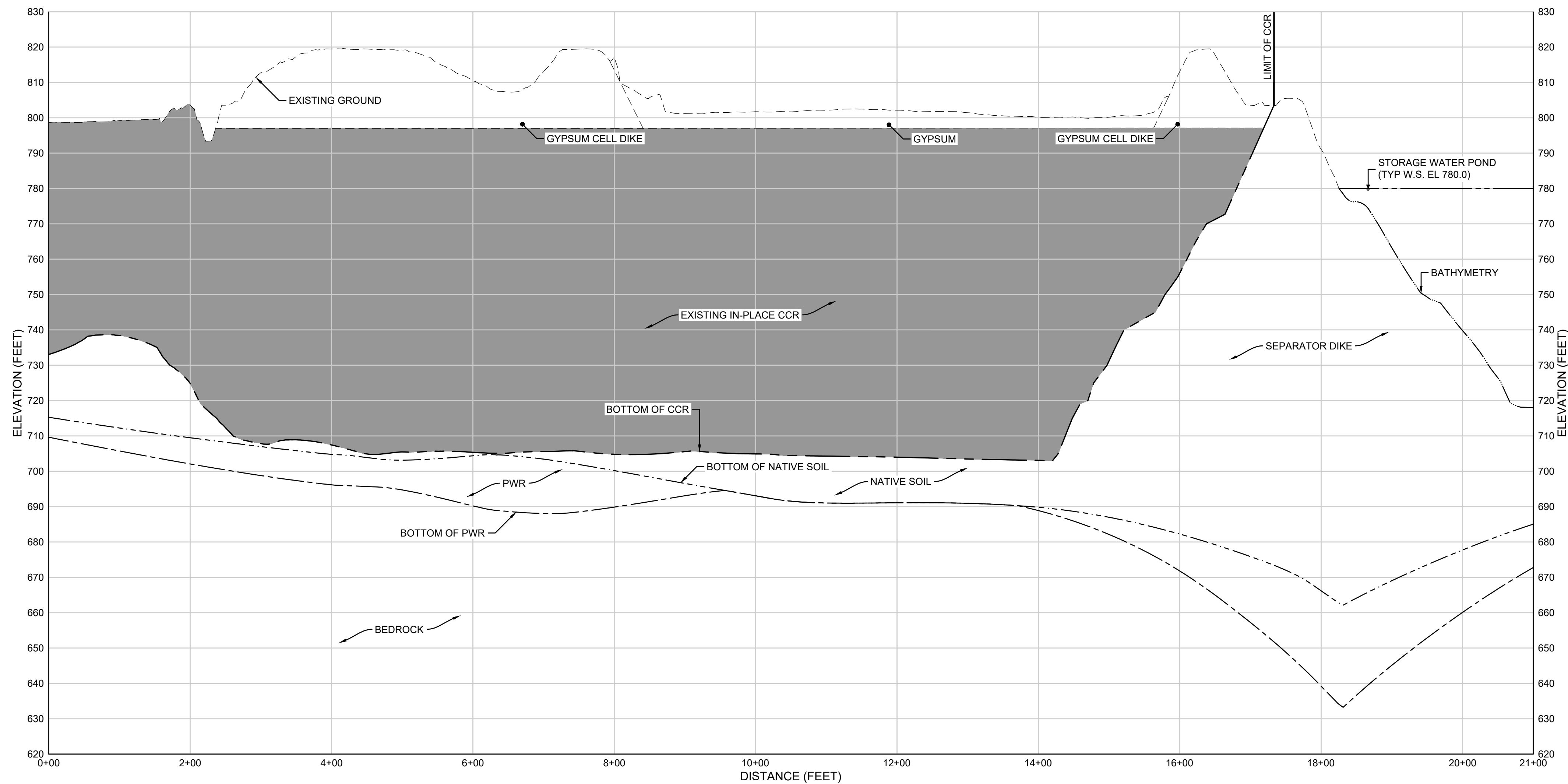
SEPARATOR DIKE PLAN					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants			Georgia Power		
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA			PHONE: 678.202.8500 WWW.GEOSYNTEC.COM		
PROJ. NO.	GW9155	DWG.	GW7306.13-C13	EDIT	5/2/24
SCALE	AS SHOWN				DRAWING 13 OF 22
DATE	FEBRUARY 2025				



A SECTION
06 SITE SECTION - A
SCALE: 1" = 100' (H); 1" = 20' (V)

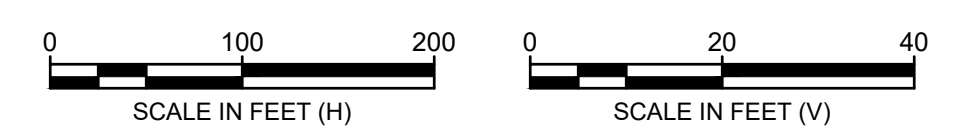


B SECTION
06 SITE SECTION - B
SCALE: 1" = 100' (H); 1" = 20' (V)



C SECTION
06 SITE SECTION - C
SCALE: 1" = 100' (H); 1" = 20' (V)

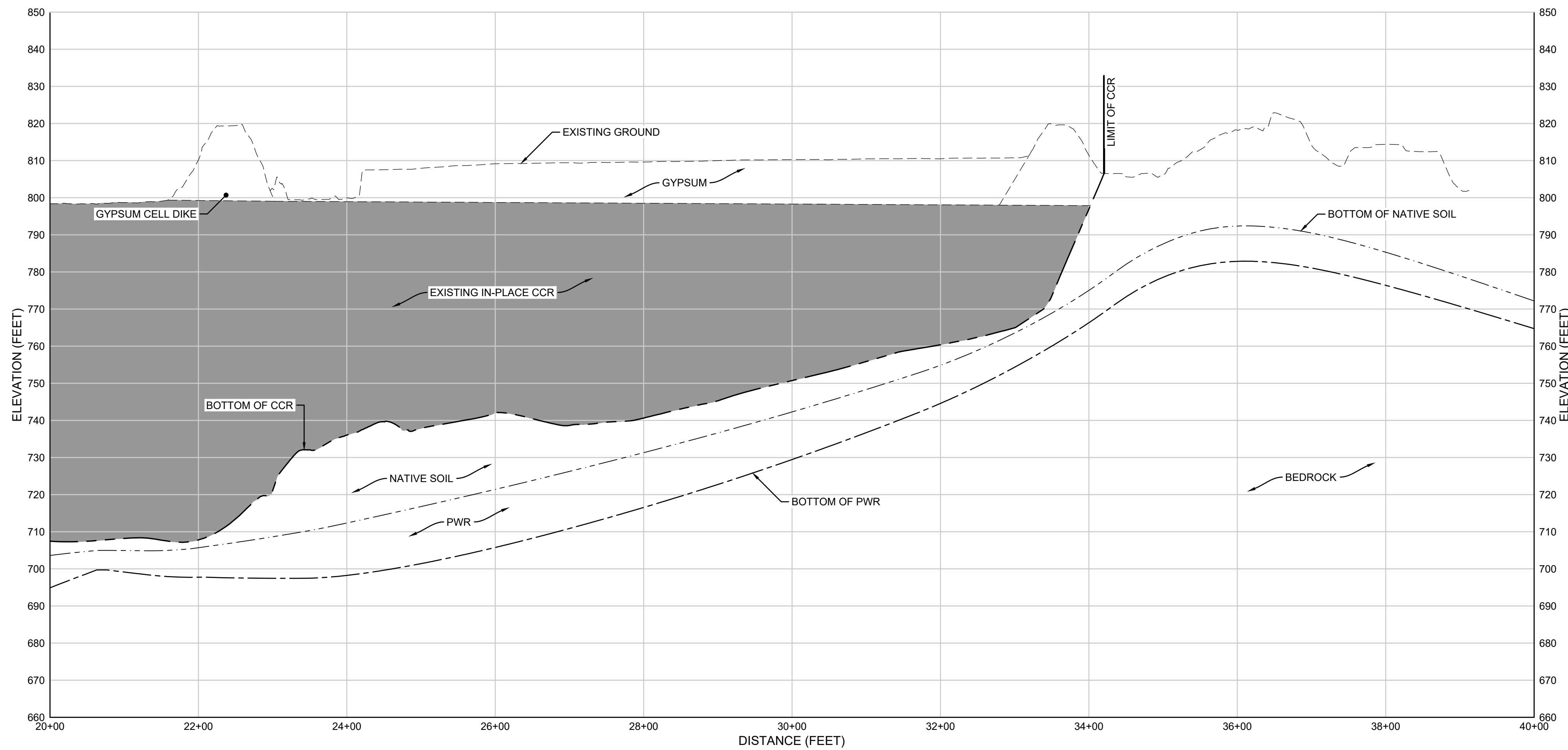
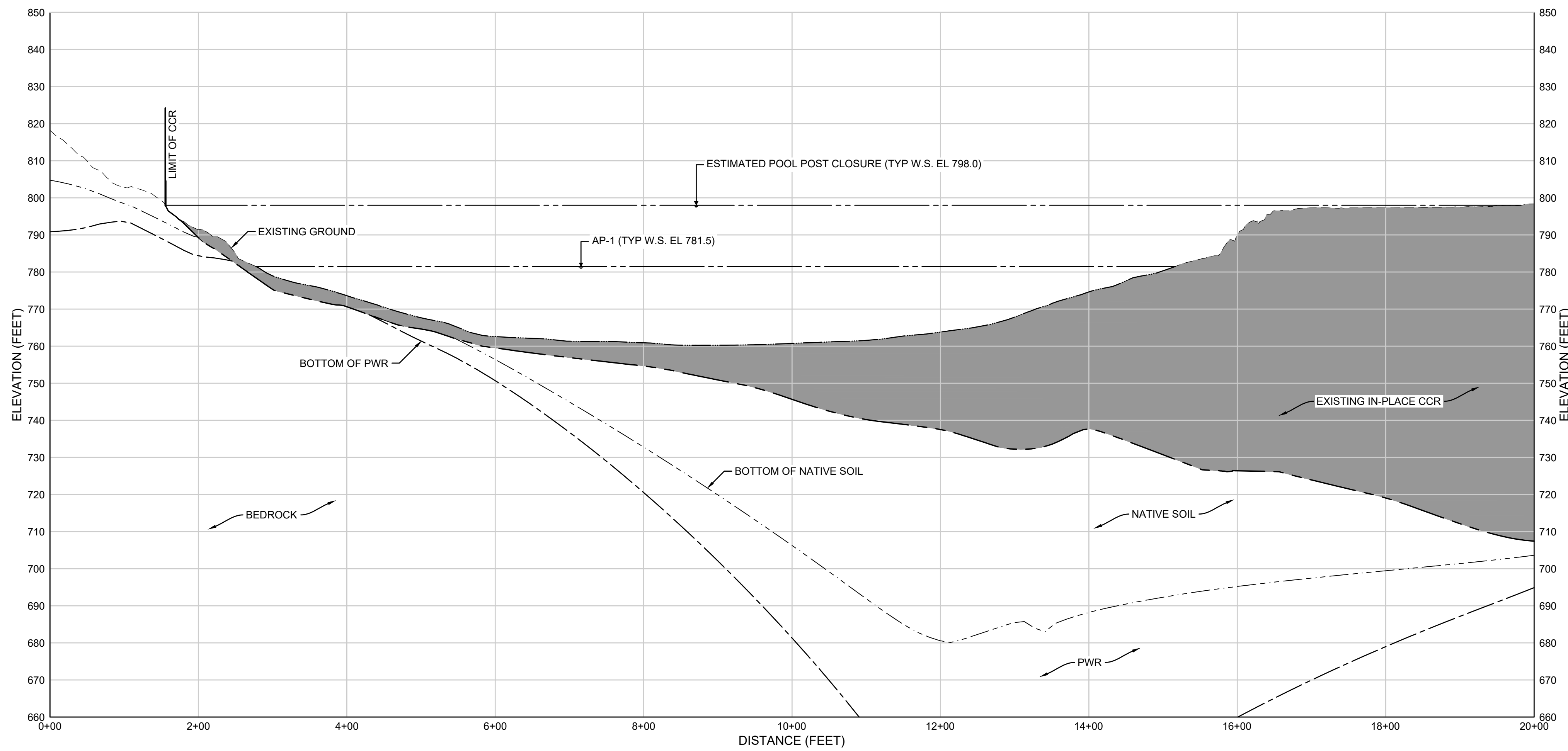
- NOTES:
1. BOTTOM OF CCR SURFACE IS SHOWN IN THESE SECTIONS. EXCAVATION SURFACE IS NOT SHOWN FOR CLARITY AND WILL BE 6 INCHES BELOW THE BOTTOM OF CCR SURFACE.
 2. BATHYMETRY WITHIN THE STORMWATER POND IS ESTIMATED AND NOT SURVEYED.



C:\GEO-ACC\ACCDCS\GEO\SYNTEC\SD\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGSH\TG7306.13-C14

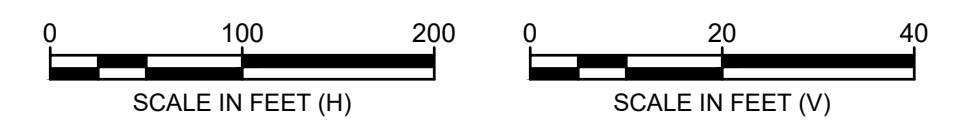


0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG	
REV	DATE	DESCRIPTION	DRN	APP	
SITE SECTIONS - I					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants					
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.9500 WWW.GEOSYNTEC.COM			
PROJ. NO.	GW9155	DWG.	GW7306.13-C14	EDIT	5/2/24
SCALE	AS SHOWN	DRAWING 14 OF 22			
DATE	FEBRUARY 2025				



D
06 SECTION
SITE SECTION - D
SCALE: 1" = 100' (H); 1" = 20' (V)

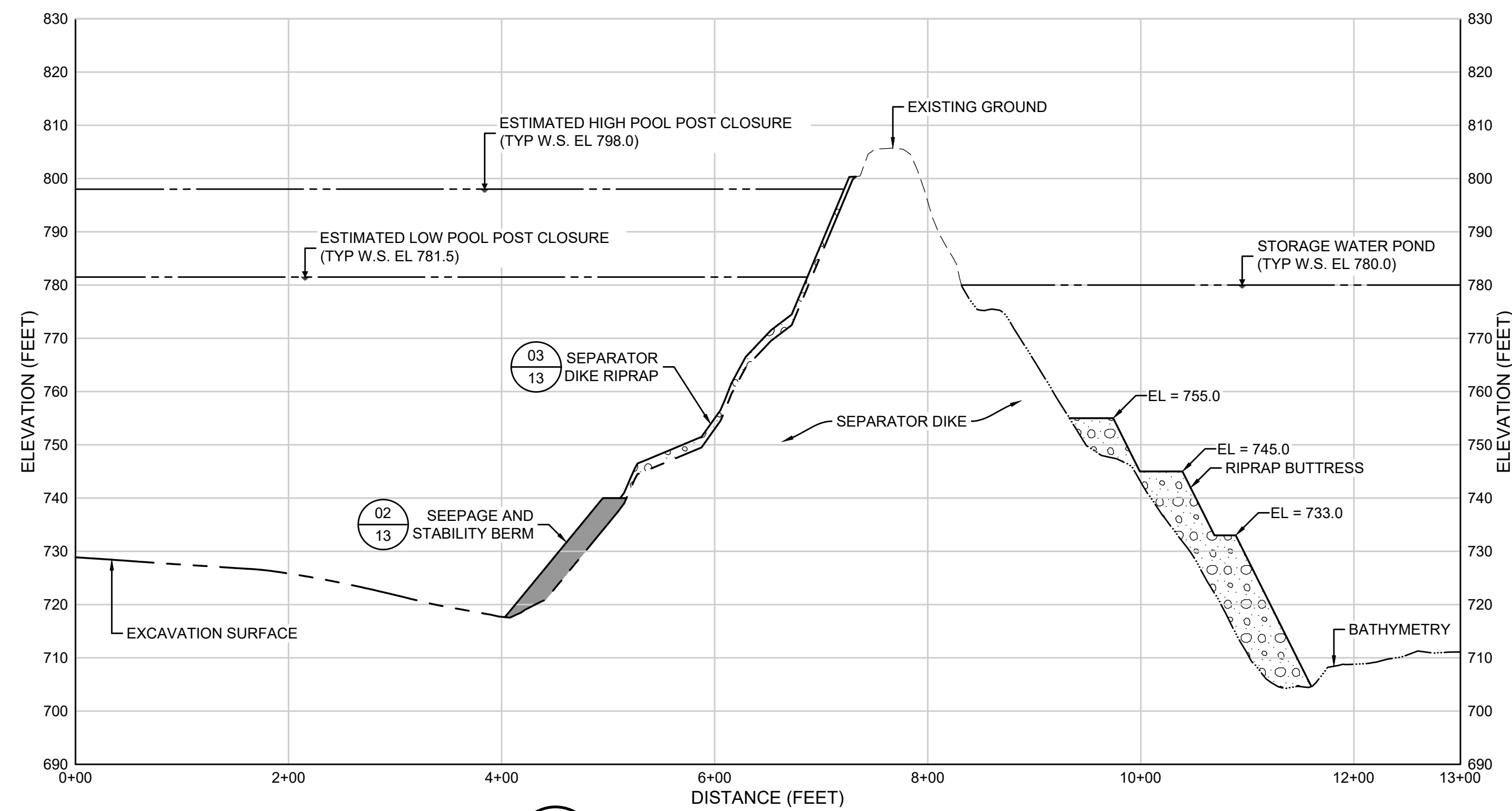
- NOTES:
1. BOTTOM OF CCR SURFACE IS SHOWN IN THESE SECTIONS. EXCAVATION SURFACE IS NOT SHOWN FOR CLARITY AND WILL BE 6 INCHES BELOW THE BOTTOM OF CCR SURFACE.



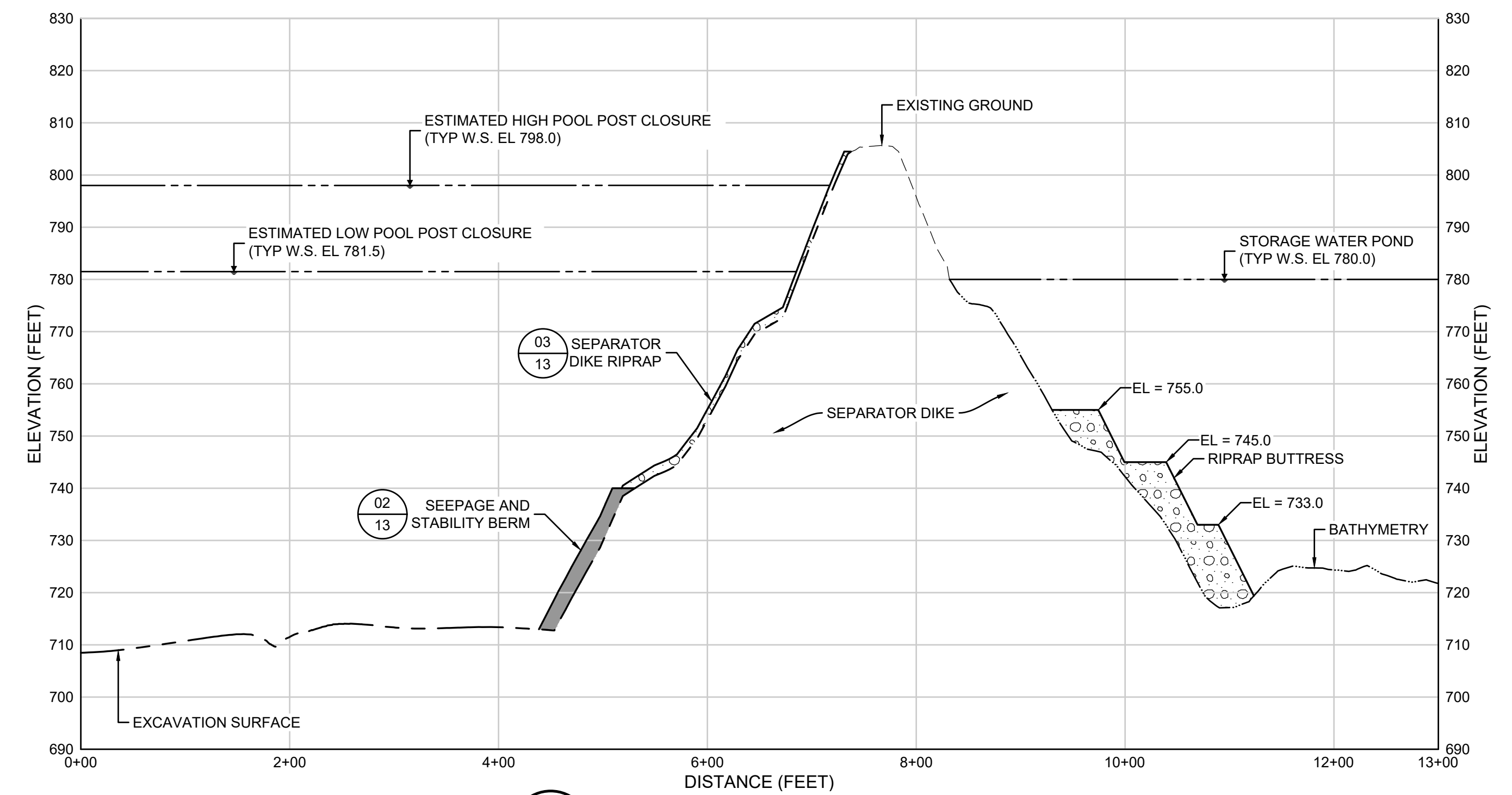
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG	
REV	DATE	DESCRIPTION	DRN	APP	
SITE SECTIONS - II					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants					
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.9500 WWW.GEOSYNTEC.COM			
PROJ. NO.	GW9155	DWG.	GW7306.13-C15	EDIT	5/2/24
SCALE	AS SHOWN	DRAWING			15 OF 22
DATE	FEBRUARY 2025				



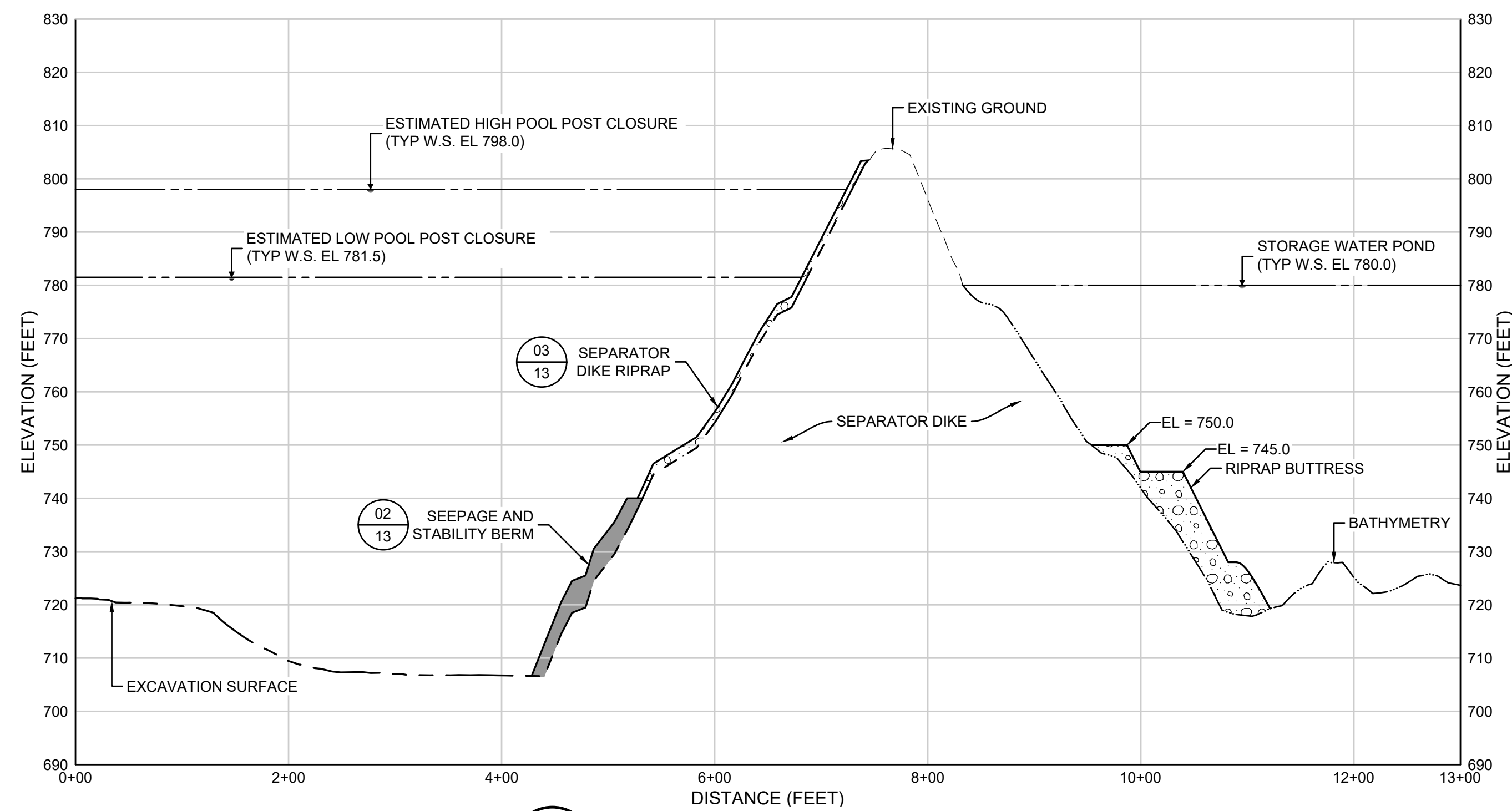
C:_GEO-ACC\DCS\GEO\SYNTEC\SOIPLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGS\HT\GW7306.13-C15



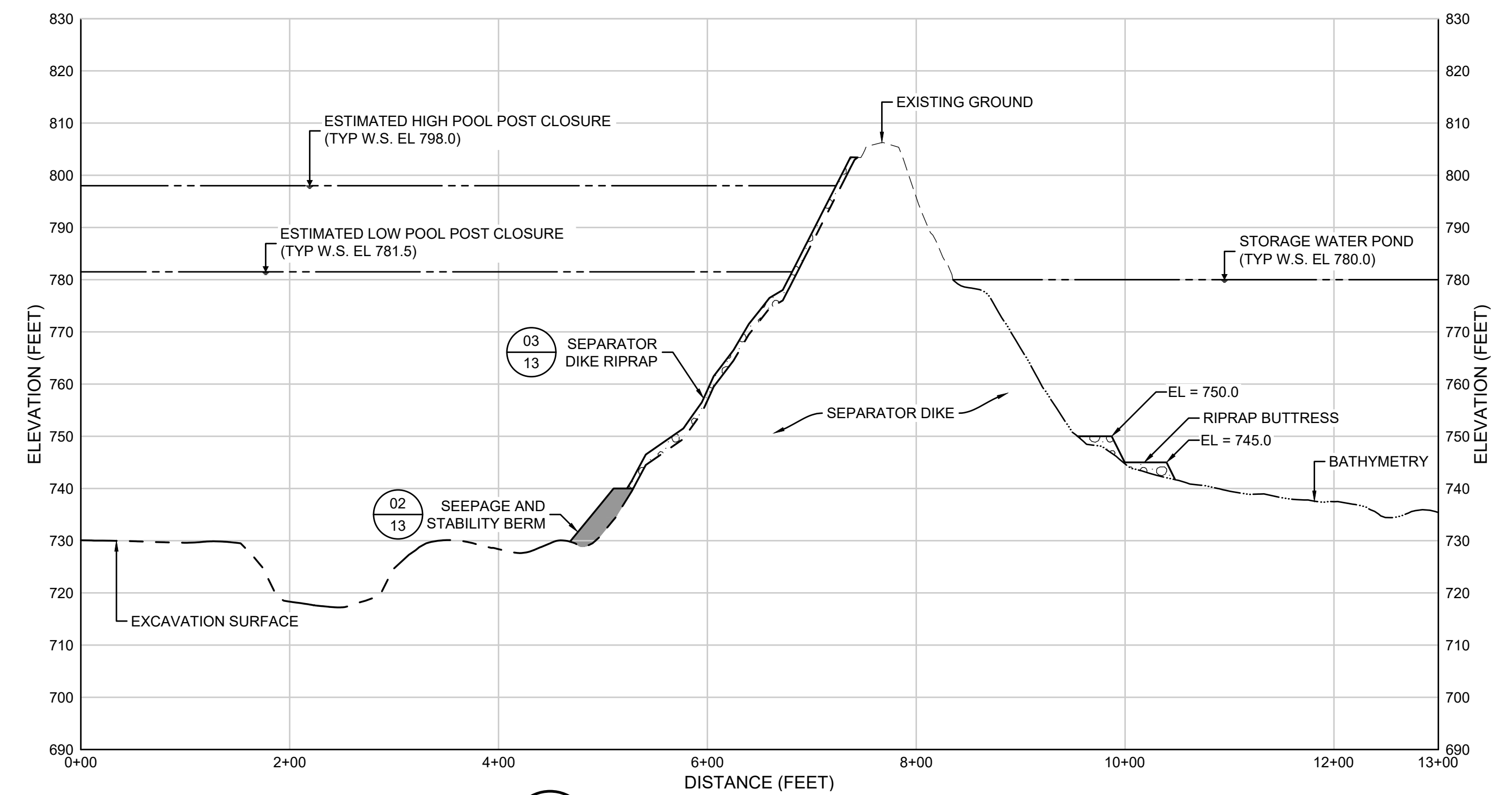
E
SECTION
13
SEPARATOR DIKE SECTION - E
SCALE: 1" = 100' (H); 1" = 20' (V)



F
SECTION
13
SEPARATOR DIKE SECTION - F
SCALE: 1" = 100' (H); 1" = 20' (V)



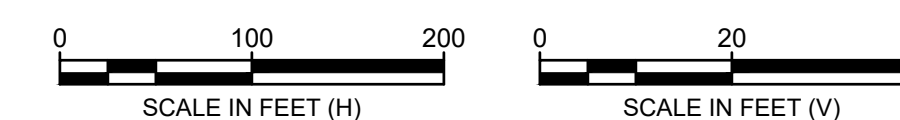
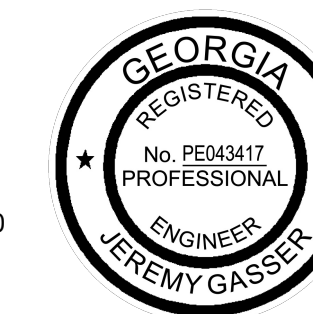
G
SECTION
13
SEPARATOR DIKE SECTION - G
SCALE: 1" = 100' (H); 1" = 20' (V)



H
SECTION
13
SEPARATOR DIKE SECTION - H
SCALE: 1" = 100' (H); 1" = 20' (V)

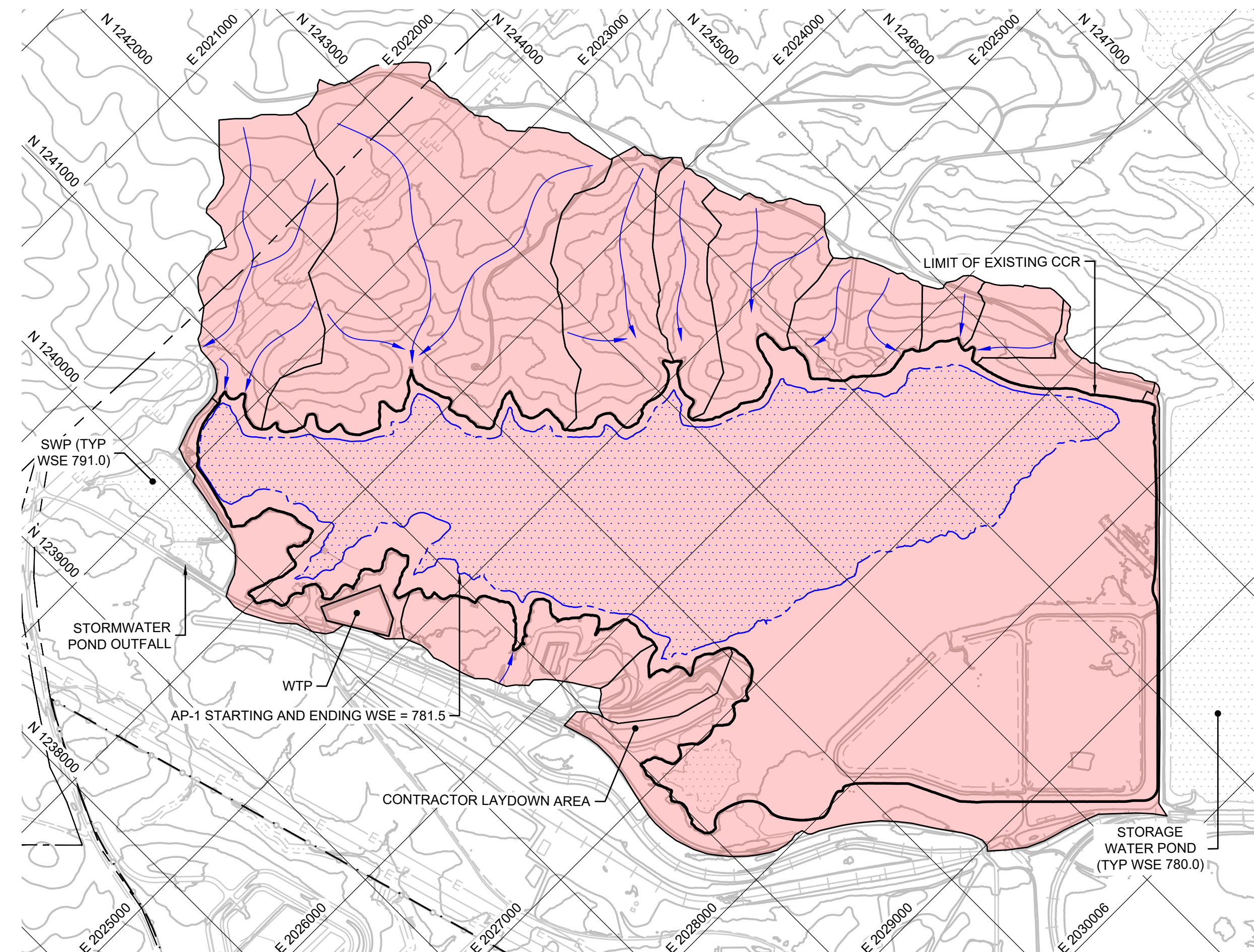
NOTES:

- SEE DETAILS ON DRAWING 13 FOR PLACEMENT OF MATERIALS ON THE AP-1 SIDE OF THE SEPARATOR DIKE.
- RIPRAP BUTTRESS SHALL CONSIST OF GDOT TYPE 1 RIPRAP.



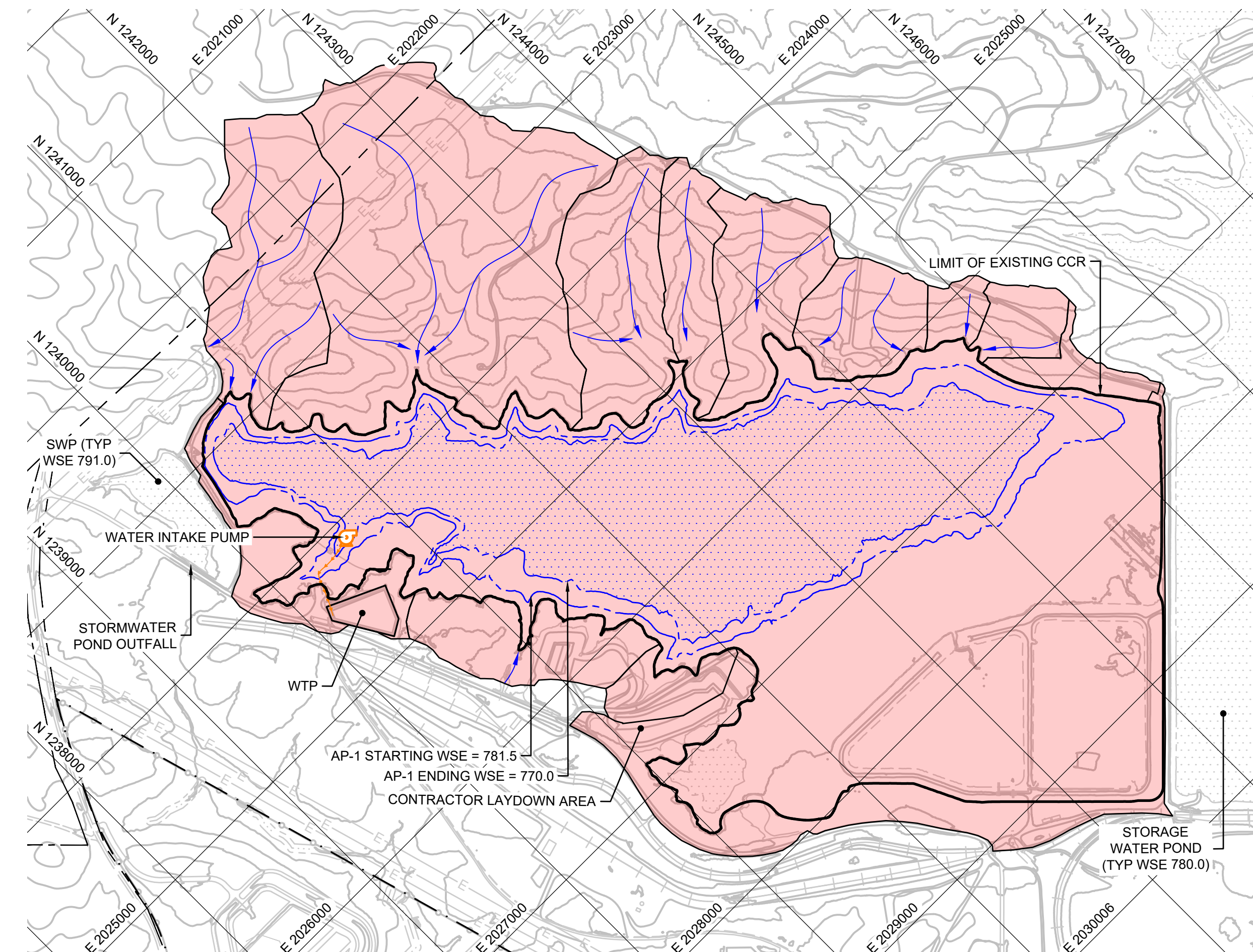
REV	DATE	DESCRIPTION	DRN	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
SEPARATOR DIKE SECTIONS				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
Geosyntec consultants			Georgia Power	
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA			PHONE: 678.202.8500 WWW.GEOSYNTEC.COM	
PROJ. NO.	GW9155	DWG.	GW7306.13-C16	EDIT
SCALE	AS SHOWN			
DATE	FEBRUARY 2025	DRAWING 16 OF 22		

- STAGE 0 ACTIVITIES:**
PHASE I (WSE 781.5)
- INITIATE CLOSURE ACTIVITIES.
 - INSTALL EROSION AND SEDIMENT CONTROLS.
 - INSTALL WTP.



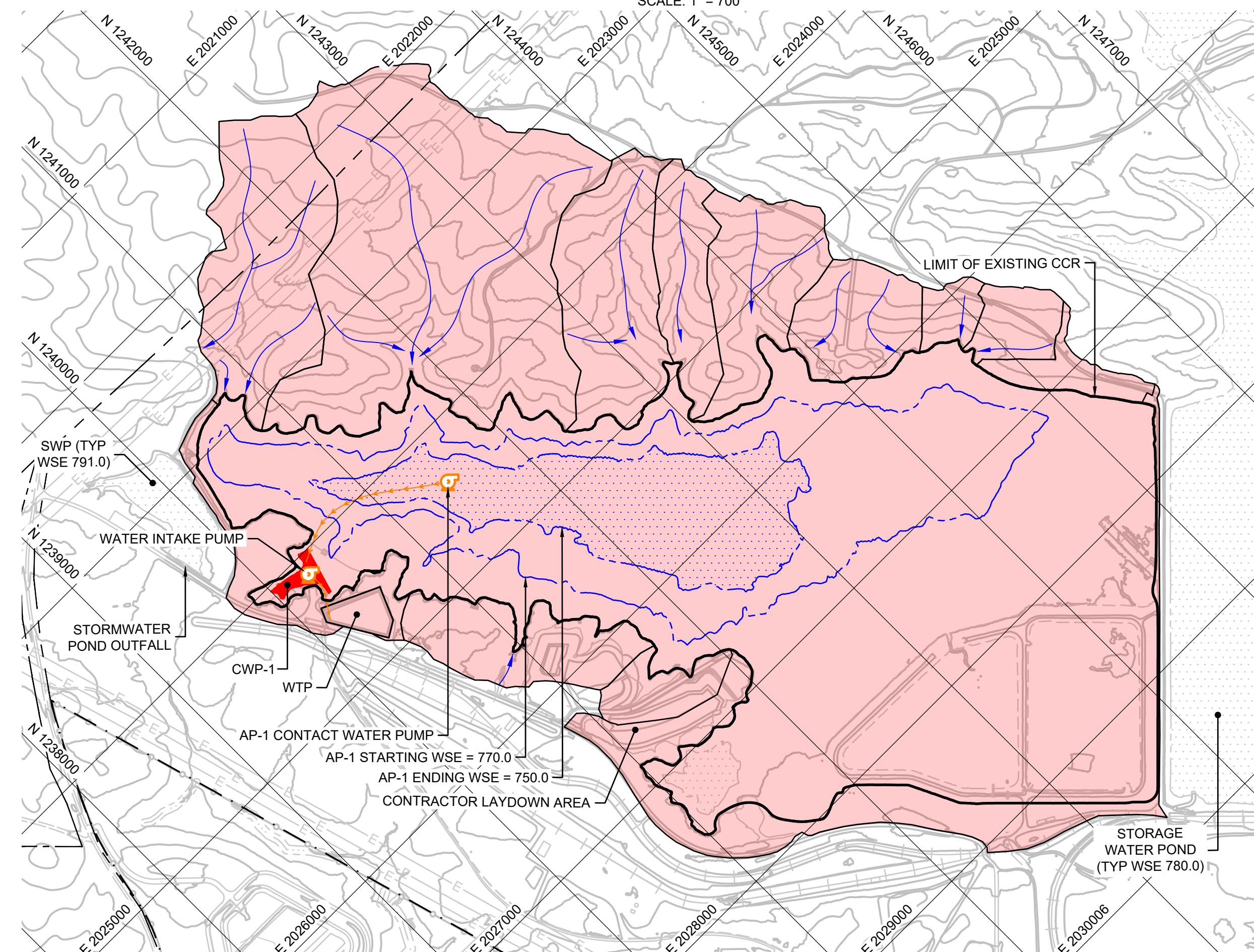
04 PLAN
17 STAGE 0
SCALE: 1" = 700'

- STAGE 1 ACTIVITIES:**
INITIAL DRAWDOWN (WSE 781.5 TO 770.0)
- CONSTRUCT WTP INTAKE FORCEMAIN AND PUMP SYSTEM.
 - COMMENCE INSTALLATION OF TEMPORARY DEWATERING SYSTEM FOR CONSTRUCTION PURPOSES.
 - COMMENCE REMOVAL OF FREE WATER FROM ASH POND.
 - COMMENCE DEMOLITION OF PIPING AND ANCILLARY ITEMS WITHIN THE POND FOOTPRINT.
 - CLEAR AND GRUB CCR CONTACT MATERIALS ALONG THE ASH POND PERIMETER AND WITHIN THE POND FOOTPRINT.
 - CONTINUE TO CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROLS.



05 PLAN
17 STAGE 1
SCALE: 1" = 700'

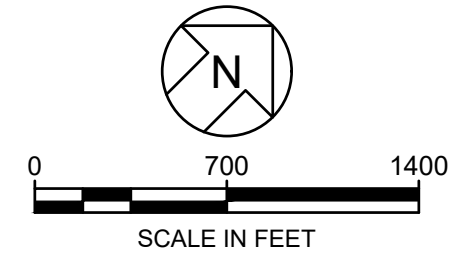
- STAGE 2 ACTIVITIES:**
DRAWDOWN (WSE 770.0 TO 750.0)
- CONTINUE TO REMOVE FREE WATER FROM ASH POND TO AN ELEVATION OF 750.0 FEET.
 - COMMENCE REMOVAL OF CCR.
 - CONSTRUCT CONTACT WATER POND 1.
 - CONTINUE TEMPORARY DEWATERING ACTIVITIES FOR CONSTRUCTION PURPOSES.
 - CONTINUE TO CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROLS.



06 PLAN
17 STAGE 2
SCALE: 1" = 700'

LEGEND

- CONTACT WATER GENERATION AREA
- CONTACT WATER LINED POND
- NON-CONTACT WATER GENERATION AREA
- NON-CONTACT WATER UNLINED POND
- AP-1 WATER LEVEL
- FLOW DIRECTION
- CONTACT WATER PUMPING DIRECTION
- NON-CONTACT WATER PUMPING DIRECTION
- LIMIT OF EXISTING CCR



REV	DATE	DESCRIPTION	DLJ	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG

CONSTRUCTION SEQUENCING PLAN - I

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
 HEARD AND CARROLL COUNTIES, GEORGIA

Geosyntec consultants

1255 ROBERTS BOULEVARD, NW, SUITE 200
 KENNESAW, GEORGIA 30144 USA
 PHONE: 678.202.8500
 WWW.GEOSYNTEC.COM

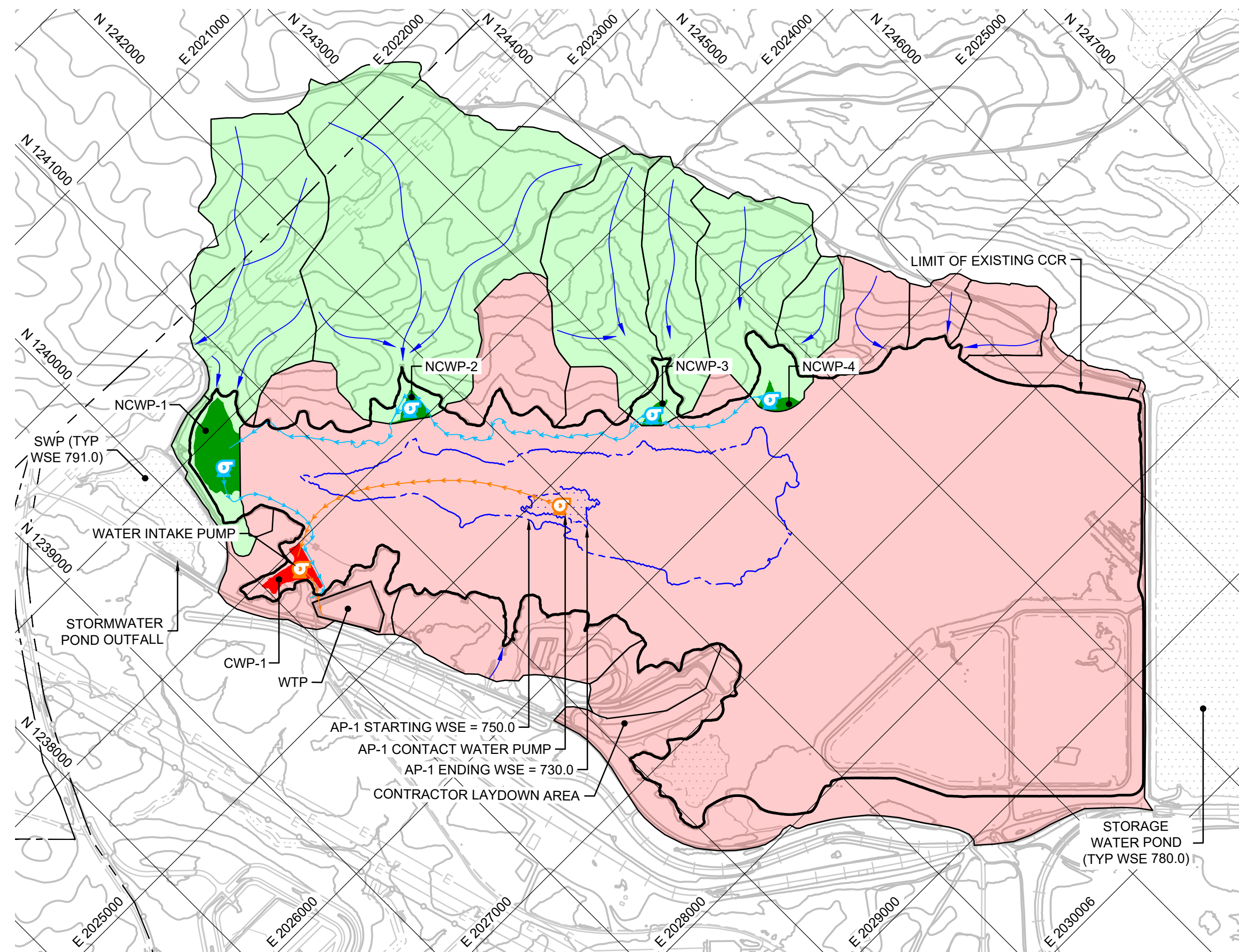
Georgia Power

PROJ. NO.	GW9155	DWG.	GW7306.13-C17	EDIT	5/2/24
SCALE	SCALE: 1" = 700'				
DATE	FEBRUARY 2025	DRAWING 17 OF 22			

C:_GEO-ACC\CDSCS\GEO\NTEC\SD\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGS\HT\GW7306.13-C17

STAGE 3 ACTIVITIES:

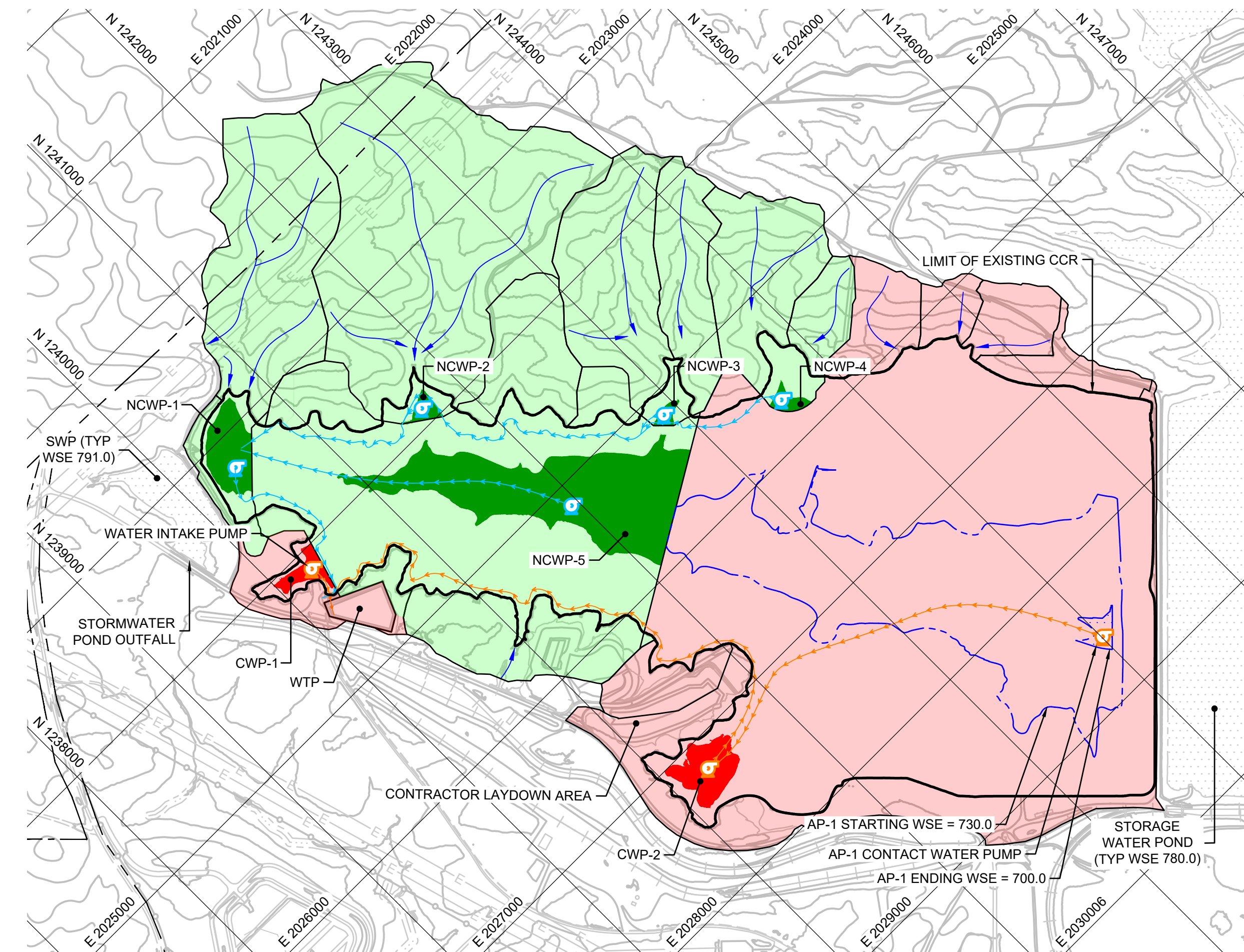
- DRAWDOWN CONTINUED (WSE 750.0 TO 730.0)**
- CONTINUE TO REMOVE FREE WATER FROM ASH POND TO AN ELEVATION OF 730.0 FEET.
 - CONSTRUCT NON-CONTACT WATER PONDS (NCWP) 1, 2, 3 AND 4. ENSURE MAXIMUM BERM HEIGHTS OF 25 FT AND STORAGE CAPACITIES OF LESS THAN 100 AC-FT.
 - CONSTRUCT FORCEMAINS TO CONVEY NON-CONTACT STORMWATER FROM NCWPS 2, 3 AND 4 TO NCWP 1, AND FROM NCWP 1 TO THE WESTERN STORMWATER POND.
 - CONTINUE REMOVAL OF CCR AND CERTIFY.
 - CONTINUE TEMPORARY DEWATERING ACTIVITIES FOR CONSTRUCTION PURPOSES.
 - CONTINUE TO CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROLS.



07 PLAN
18 STAGE 3
SCALE: 1" = 700'

STAGE 4 ACTIVITIES:

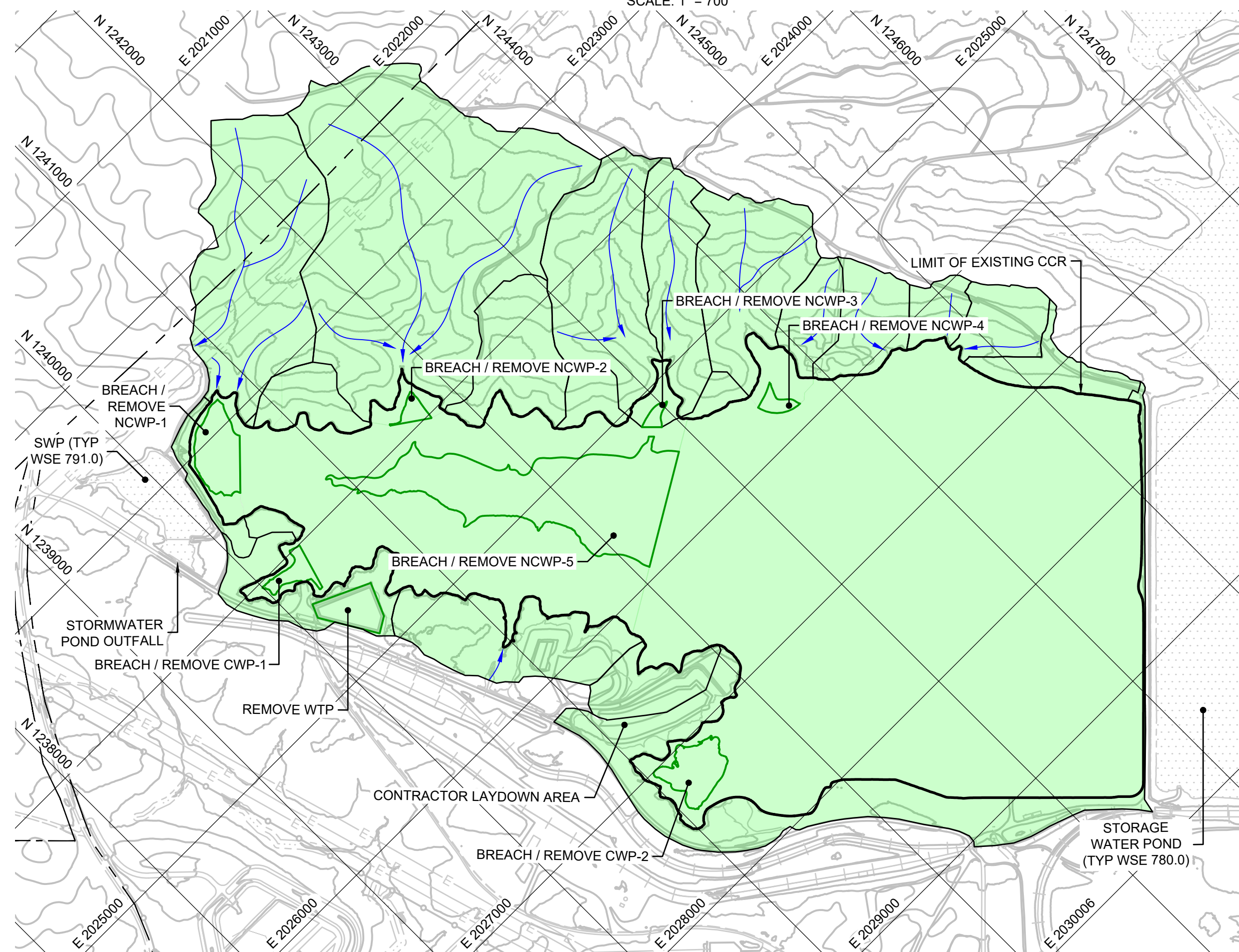
- CCR REMOVAL (WSE 730.0 TO 700.0)**
- COMPLETE FREE WATER REMOVAL WITHIN THE ASH POND.
 - CONSTRUCT NCWP 5. ENSURE MAXIMUM BERM HEIGHTS OF 25 FT AND STORAGE CAPACITIES OF LESS THAN 100 AC-FT.
 - CONSTRUCTION CWP-2.
 - COMPLETE REMOVAL OF CCR AND CERTIFY.
 - COMMENCE CONTACT WATER MANAGEMENT WITHIN THE ASH POND.
 - CONTINUE TO CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROLS.
 - COMPLETE PLACEMENT OF CHANNEL BEDDING AND ARMORING MATERIALS FOR EROSION PROTECTION IN EXPOSED CHANNELS.
 - COMPLETE SEPARATOR DIKE SLOPE ARMORING FOR EROSION PROTECTION.



08 PLAN
18 STAGE 4
SCALE: 1" = 700'

STAGE 5 ACTIVITIES:

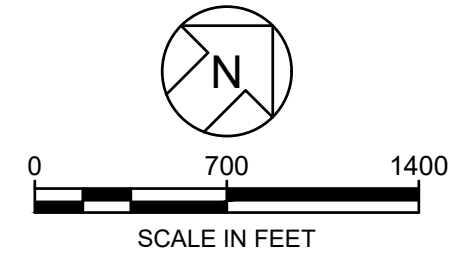
- STABILIZATION AND REFILL (WSE 700.0 TO 781.5)**
- BREACH/REMOVE NON-CONTACT WATER PONDS/BERMS.
 - CLOSE AND REMOVE WTP.
 - REMOVE TEMPORARY CONSTRUCTION FACILITIES.
 - CONTINUE TO MAINTAIN EROSION AND SEDIMENT CONTROLS.
 - PERFORM VEGETATION MANAGEMENT AND RESEEDING AS NEEDED FOR STABILIZATION.
 - PLACE RIPRAP AND SEEPAGE BERM ON THE AP-1 SIDE OF THE SEPARATOR DIKE.
 - PLACE RIPRAP BUTTRESS ON THE STORAGE WATER POND OF THE SEPARATOR DIKE.
 - ASH POND 1 CLOSURE ACTIVITIES ARE COMPLETE.



09 PLAN
18 STAGE 5
SCALE: 1" = 700'

LEGEND

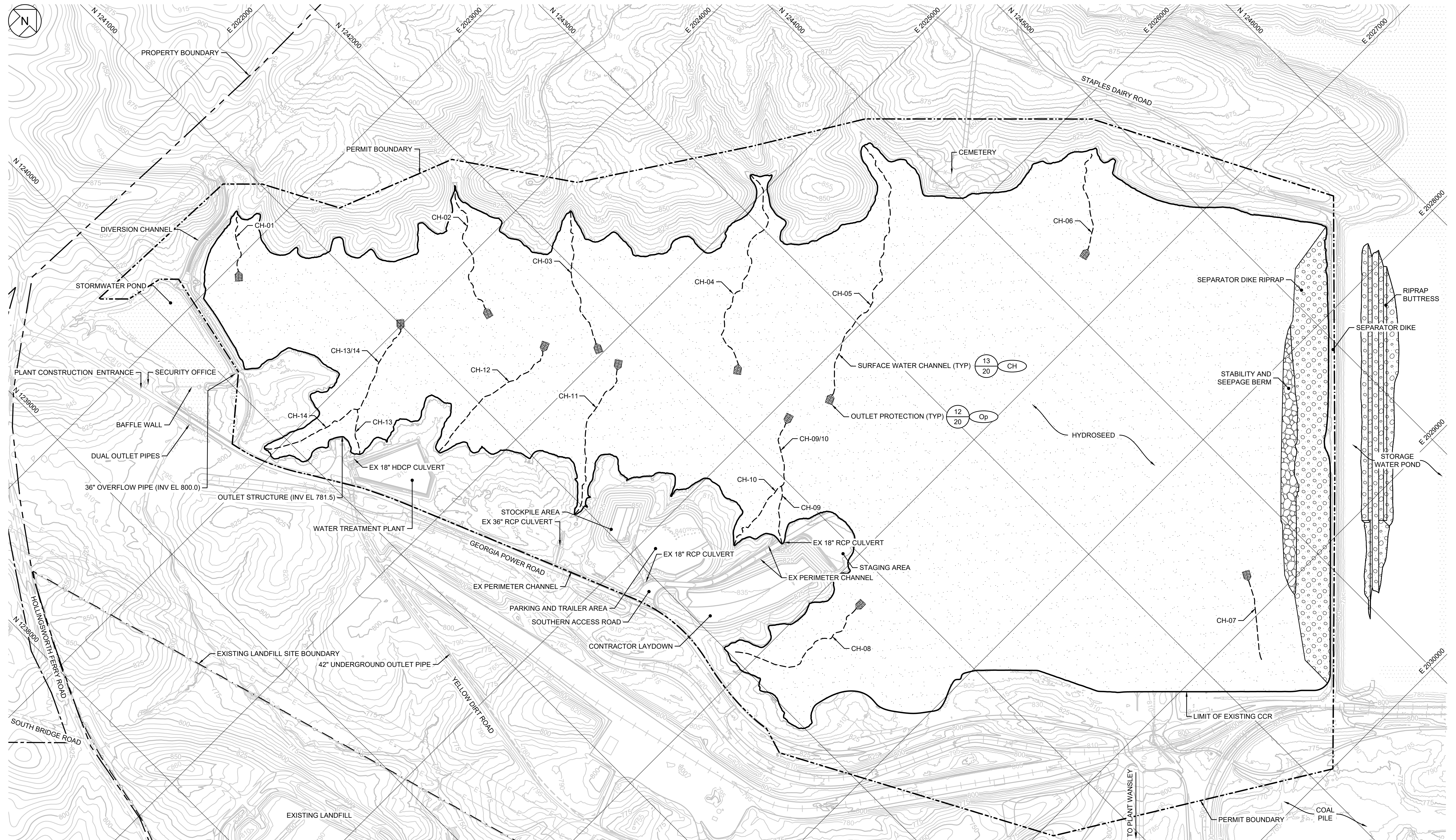
CONTACT WATER GENERATION AREA	FLOW DIRECTION
CONTACT WATER LINED POND	CONTACT WATER PUMPING DIRECTION
NON-CONTACT WATER GENERATION AREA	NON-CONTACT WATER PUMPING DIRECTION
NON-CONTACT WATER UNLINED POND	LIMIT OF EXISTING CCR
AP-1 WATER LEVEL	



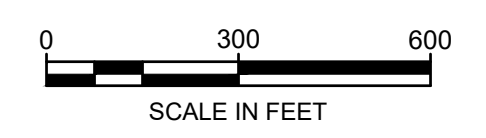
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG	
REV	DATE	DESCRIPTION	DRN	APP	
CONSTRUCTION SEQUENCING PLAN - II					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants		Georgia Power			
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.8500 WWW.GEOSYNTEC.COM			
PROJ. NO.	GW9155	DWG.	GW7306.13-C18	EDIT	5/2/24
SCALE	SCALE: 1" = 700'		DRAWING		18 OF 22
DATE	FEBRUARY 2025				

C:_GEO-ACC\ACCDCS\GEO\NTEC\SD\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGS\HT\GW7306.13-C18

C:_GEO-ACC\DCSC\GEO\SYNTEC\SD\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\01\SD\WGSHT\GW7306.13-C19

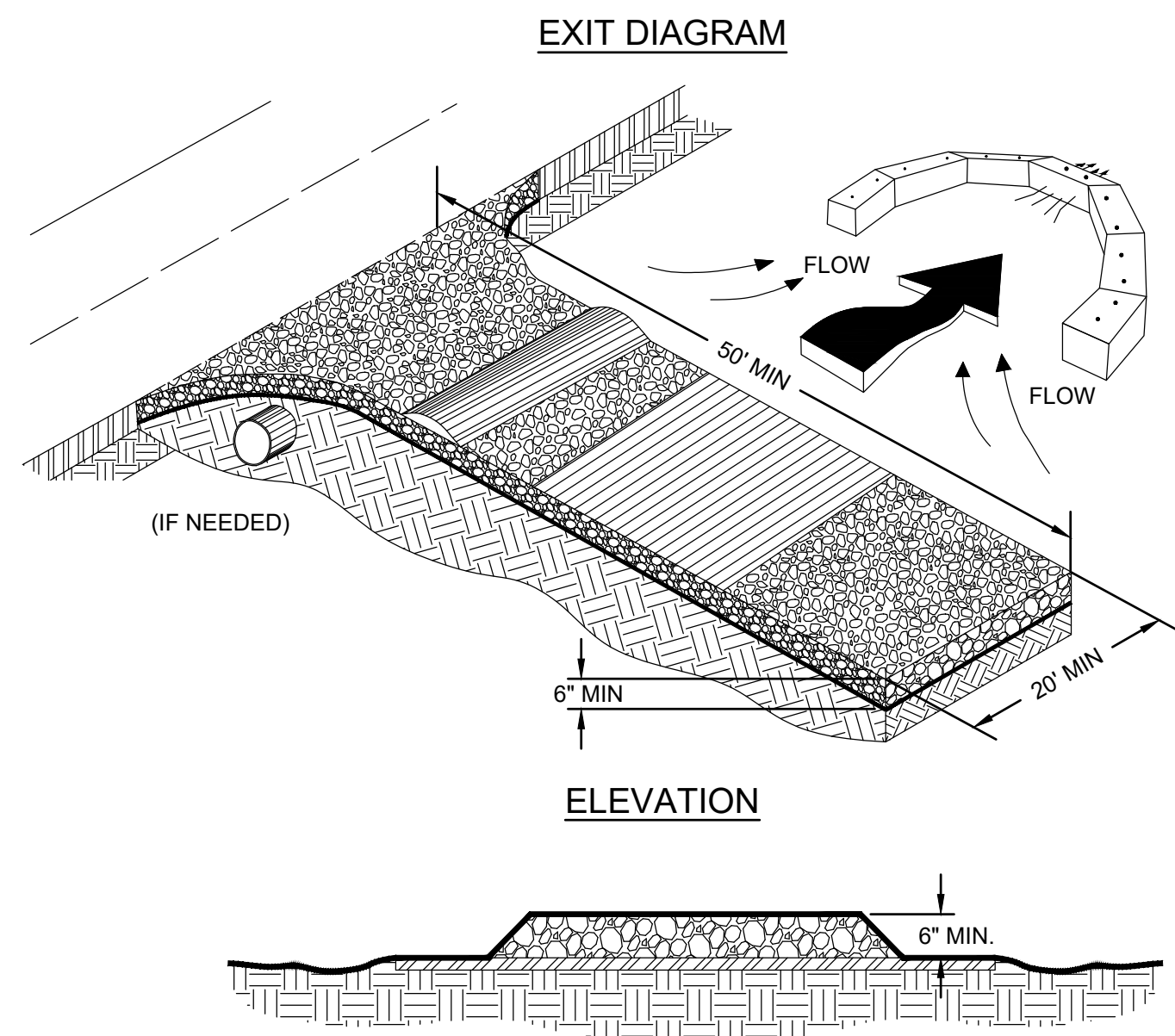


NOTES:
 1. SEE DRAWING 02 FOR LEGENDS, ABBREVIATIONS, AND GENERAL SITE NOTES.



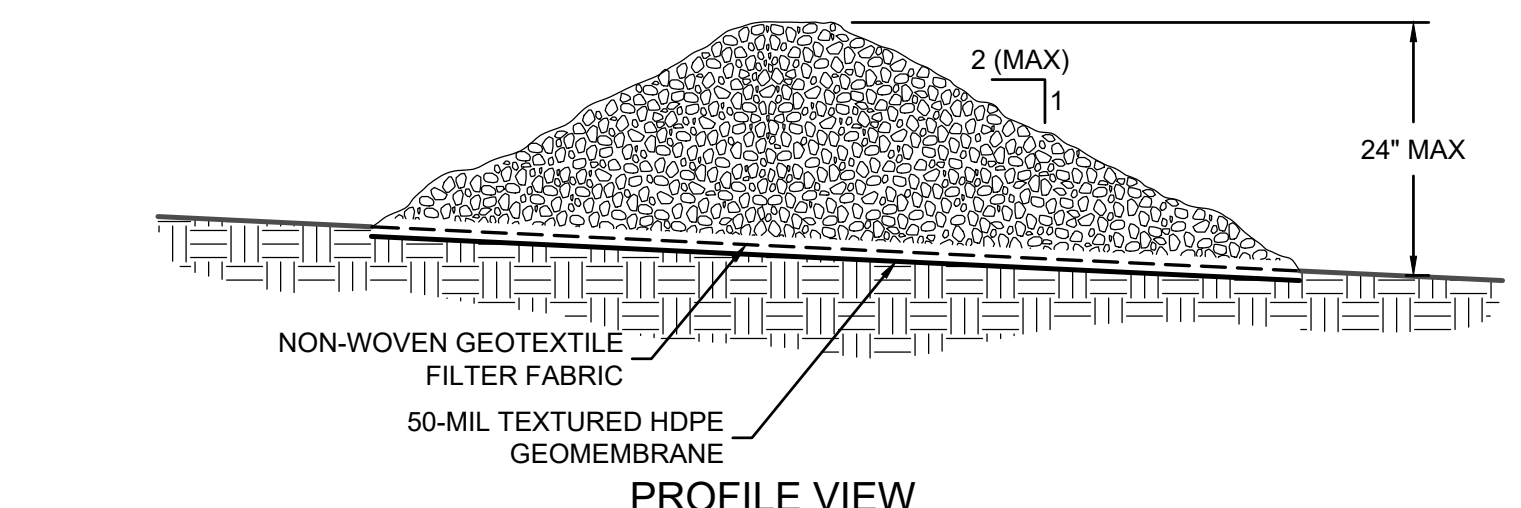
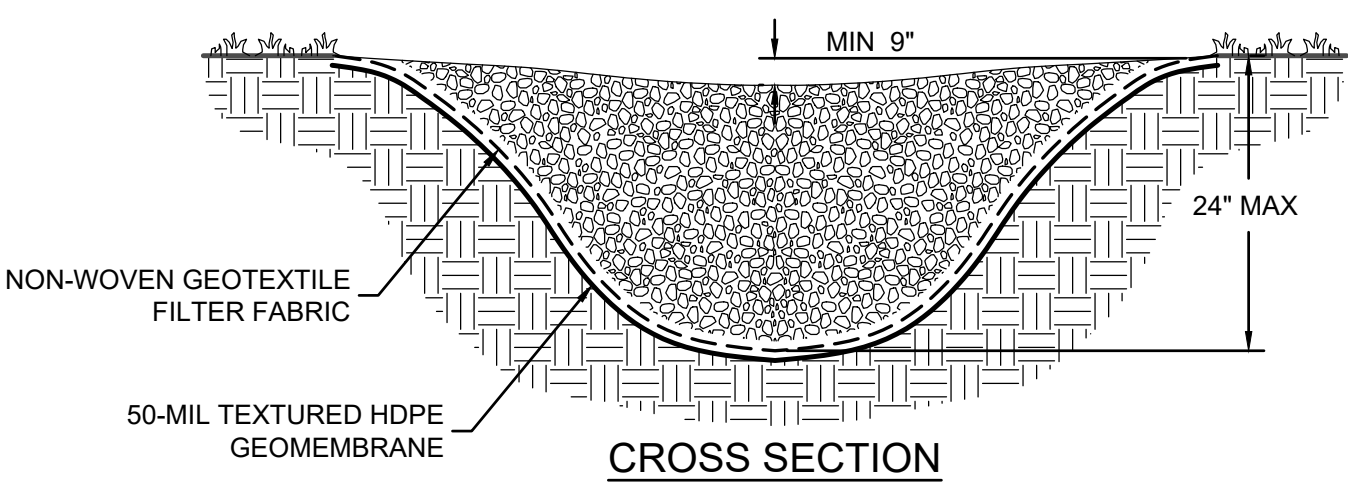
REV	DATE	DESCRIPTION	DRN	JMG	
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG	
FINAL STORMWATER AND ESC PLAN					
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA					
Geosyntec consultants					
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA			PHONE: 678.202.8500 WWW.GEOSYNTEC.COM		
PROJ. NO.	GW9155	DWG.	GW7306.13-C19	EDIT	5/2/24
SCALE	AS SHOWN				
DATE	FEBRUARY 2025				
DRAWING 19 OF 22					





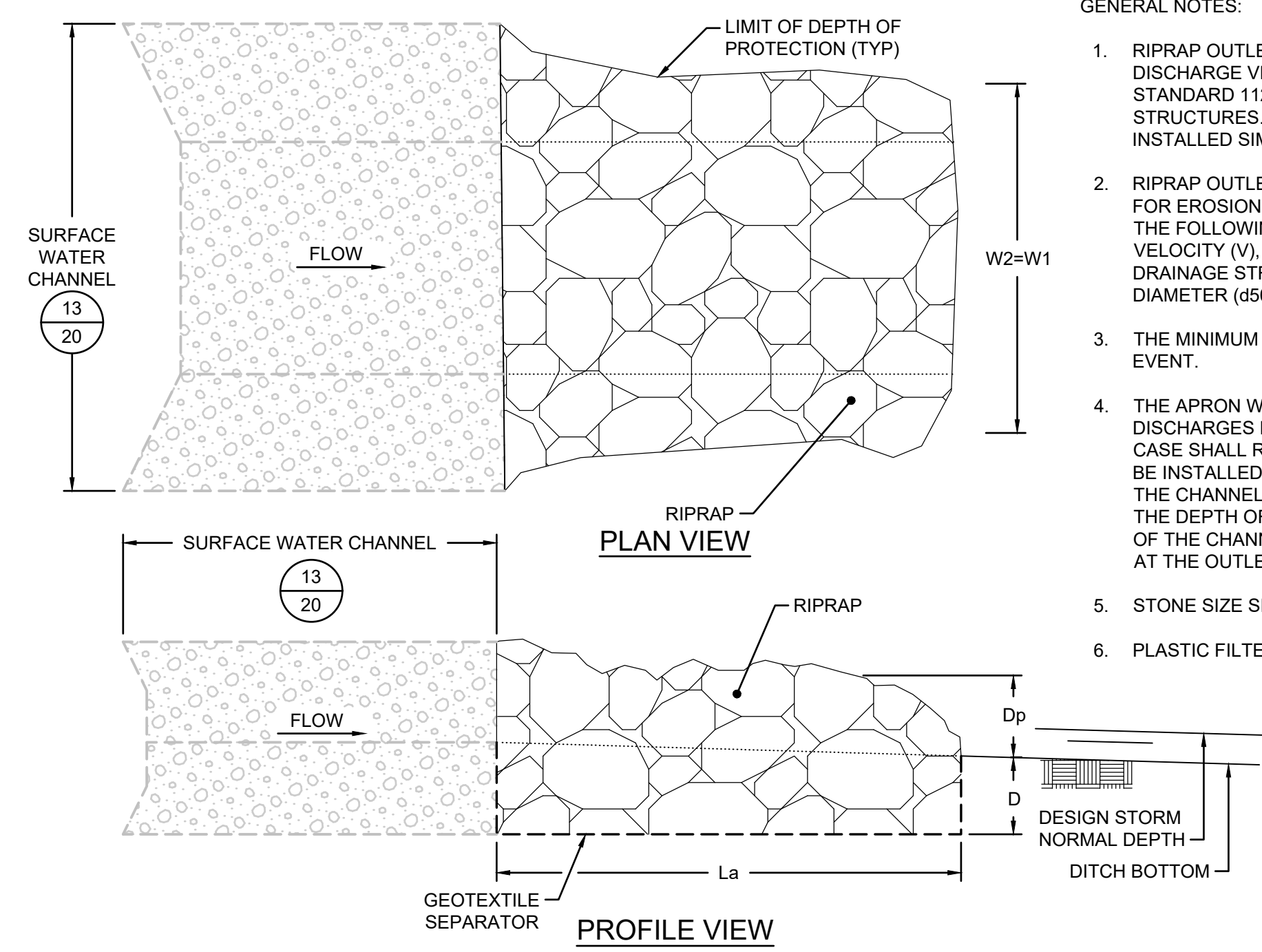
- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION (NSA) R-2 (1.5"-3.5" STONE).
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

Co **10** **19** **DETAIL**
CONSTRUCTION EXIT
SCALE: NTS



- NOTES:**
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
 2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
 4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
 5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
 6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).
 7. CHECK DAMS SHALL BE SPACED 200 FT APART IN ALL PERIMETER CHANNELS.
 8. CHECK DAMS SHALL BE PLACED ON BOTH SIDES OF THE OUTFLOW WEIRS AND SPACED 3 FEET FROM THE EDGES OF THE WEIR.

Cd-S **11** **19** **DETAIL**
STONE CHECK DAM
SCALE: NTS



- GENERAL NOTES:**
1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
 2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: CHANNEL DEPTH, FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.
 3. THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25 YEAR STORM EVENT.
 4. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION, THE RIPRAP SHALL BE INSTALLED TO THE TOP OF THE CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
 5. STONE SIZE SHALL BE AS SPECIFIED IN THE TABLE.
 6. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

DIMENSIONS

Q	=	DESIGN STORM FLOW RATE
V	=	DESIGN STORM VELOCITY
Tw	=	TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
La	=	APRON LENGTH
W1	=	APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
W2	=	APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
d50	=	AVERAGE STONE DIAMETER
D	=	INSTALLATION DEPTH
Dp	=	DEPTH OF PROTECTION

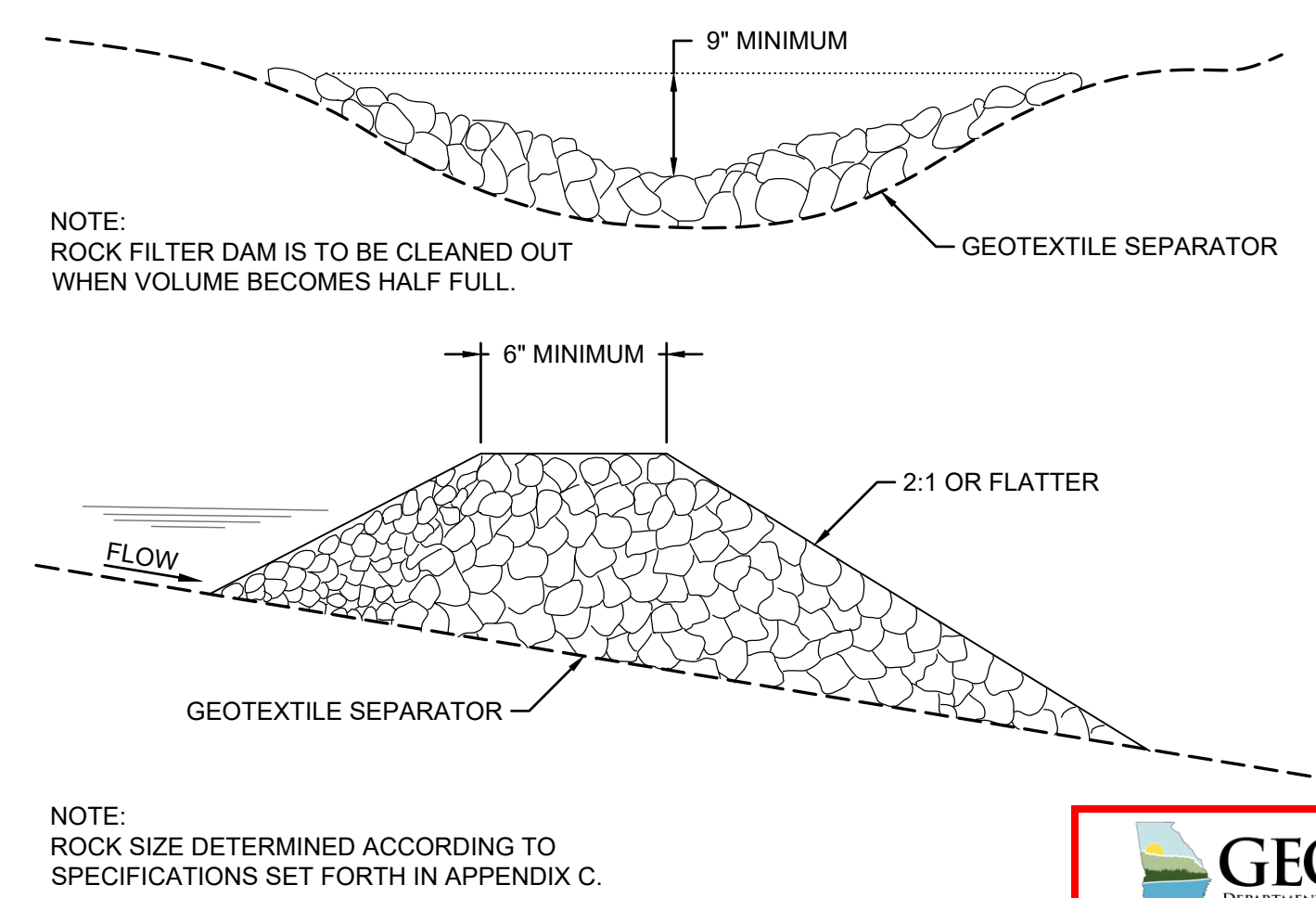
ID	Q (CFS)	V (FPS)	W1 (FT)	W2 (FT)	APRON LENGTH (FT)	RIPRAP TYPE (D50)	APRON THICKNESS (IN)
CH-01	103	9.1	13	13	30	GDOT TYPE 1 RIP RAP	36
CH-02	111	7.5	14	14	30	GDOT TYPE 1 RIP RAP	36
CH-03	43	6.3	10	10	30	GDOT TYPE 3 RIP RAP	36
CH-04	89	6.5	14	14	30	GDOT TYPE 3 RIP RAP	36
CH-05	123	5.0	18	18	30	GDOT TYPE 1 RIP RAP	36
CH-06	41	5.6	10	10	30	GDOT TYPE 3 RIP RAP	36
CH-07	61	9.0	10	10	30	GDOT TYPE 3 RIP RAP	36
CH-08	97	4.4	17	17	30	GDOT TYPE 3 RIP RAP	36
CH-09	33	5.3	N/A	N/A	N/A	N/A	N/A
CH-10	13	3.7	N/A	N/A	N/A	N/A	N/A
CH-09/10	58	6.7	11	11	30	GDOT TYPE 1 RIP RAP	36
CH-11	53	6.0	11	11	30	GDOT TYPE 3 RIP RAP	36
CH-12	49	5.8	11	11	30	GDOT TYPE 3 RIP RAP	36
CH-13	21	5.5	N/A	N/A	N/A	N/A	N/A
CH-14	19	2.4	N/A	N/A	N/A	N/A	N/A
CH-13/14	52	4.9	12	12	30	GDOT TYPE 3 RIP RAP	36

Op **12** **19** **DETAIL**
OUTLET PROTECTION
SCALE: NTS

- NOTES:**
1. CHANNEL STABILIZATION (CH-1)
 - 1.1. VEGETATED LINING: VELOCITIES OF LESS THAN 5FT/SEC.
 - 1.2. EROSION CONTROL BLANKETS/SOD REQUIRED TO ESTABLISH VEGETATION.
 2. CHANNEL STABILIZATION (CH-2):
 - 2.1. RIP RAP: VELOCITIES BETWEEN 5-10 FT/SEC.
 - 2.2. FILTER BLANKET LAYER REQUIRED - SAND/GRAVEL OR GEOTEXTILE. SELECTED GEOTEXTILE SHOULD MEET AASH-TO M2288-96 SECTION 7.5.

ID	UPSTREAM ELEV (FT)	DOWNSTREAM ELEV (FT)	LENGTH (FT)	SLOPE	MIN DEPTH (FT)	BOTTOM WIDTH (FT)	CHANNEL LINING	RIPRAP TYPE (D50)	CHANNEL LINING THICKNESS (FT)	Q (CFS)	V (FPS)
CH-01	800.0	755.0	455.0	0.099	2.50	3.00	CH-2	GDOT TYPE 1 RIP RAP	3	103	9.1
CH-02	800.0	734.0	923.0	0.072	3.00	4.00	CH-2	GDOT TYPE 1 RIP RAP	3	111	7.5
CH-03	800.0	729.0	941.0	0.075	2.50	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	43	6.3
CH-04	800.0	720.0	1425.0	0.056	3.00	4.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	89	6.5
CH-05	800.0	718.0	1795.0	0.046	3.00	4.00	CH-2	GDOT TYPE 1 RIP RAP	3	123	5.0
CH-06	798.0	746.0	718.2	0.072	2.50	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	41	5.6
CH-07	810.0	728.0	552.6	0.148	3.00	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	61	9.0
CH-08	780.0	744.0	891.2	0.040	3.00	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	97	4.4
CH-09	800.0	760.0	525.0	0.076	3.00	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	33	5.3
CH-10	800.0	760.0	667.0	0.060	2.00	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	13	3.7
CH-09/10	760.0	724.0	435.2	0.083	2.50	3.00	CH-2	GDOT TYPE 1 RIP RAP	3	58	6.7
CH-11	800.0	727.0	1050.0	0.070	2.50	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	53	6.0
CH-12	800.0	731.0	995.0	0.069	2.50	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	49	5.8
CH-13	800.0	766.0	285.0	0.119	2.50	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	21	5.5
CH-14	780.0	766.0	657.6	0.021	2.00	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	19	2.4
CH-13/14	766.0	741.0	568.2	0.044	2.50	3.00	CH-2	GDOT TYPE 3 RIP RAP	1.5	52	4.9

CH **13** **19** **DETAIL**
SURFACE WATER CHANNEL
SCALE: NTS



NOTE: ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS SET FORTH IN APPENDIX C.

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

GEORGIA
REGISTERED PROFESSIONAL ENGINEER
JEREMY GASSER

Rd **14** **19** **DETAIL**
ROCK FILTER DAM
SCALE: NTS

0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP
STORMWATER AND ESC DETAILS - I				
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA				
Geosyntec consultants		Georgia Power		
1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA		PHONE: 678.202.8500 WWW.GEOSYNTEC.COM		
PROJ. NO.	GW9155	DWG.	GW7306.13-C20	EDIT
SCALE	AS SHOWN	DRAWING 20 OF 22		
DATE	FEBRUARY 2025			

C:_GEO-ACC\DCDCS\GEO\INTC-S\PLANT WANSLEY\PROJECT FILES\CADD\WANSLEY\013DWG\SH\TGW7306.13-C20

PLANT, PLANTING RATE & PLANTING DATE FOR TEMPORARY SEEDING

SPECIES	RATES	PLANTING DATES																		
		J	F	M	A	M	J	J	A	S	O	N	D							
BARLEY ALONE	144 LBS/AC																			
BARLEY IN MIXTURE	24 LBS/AC																			
LESPEDEZA, ANNUAL ALONE	40 LBS/AC																			
LESPEDEZA, ANNUAL IN MIXTURE	10 LBS/AC																			
LOVEGRASS, WEEPING ALONE	4 LBS/AC																			
LOVEGRASS, WEEPING IN MIXTURE	2 LBS/AC																			
MILLET, BROWNTOP ALONE	40 LBS/AC																			
MILLET, BROWNTOP IN MIXTURE	10 LBS/AC																			
MILLET, PEARL ALONE	50 LBS/AC																			
OATS ALONE	128 LBS/AC																			
OATS IN MIXTURE	32 LBS/AC																			
RYE ALONE	168 LBS/AC																			
RYE IN MIXTURE	28 LBS/AC																			
RYEGRASS, ANNUAL ALONE	40 LBS/AC																			
SUDANGRASS ALONE	60 LBS/AC																			
TRITICALE ALONE	144 LBS/AC																			
TRITICALE IN MIXTURE	24 LBS/AC																			
WHEAT ALONE	180 LBS/AC																			
WHEAT WITH OTHER PERENNIALS	30 LBS/AC																			

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

DEFINITION
THE ESTABLISHMENT OF TEMPORARY VEGETATION COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

CONDITIONS
TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. NOTE: SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED SPECIES (E.G. ANNUAL RYEGRASS). CONTACT NATURAL RESOURCE CONSERVATION SERVICE OR THE LOCAL SOIL WATER CONSERVATION DISTRICT FOR MORE INFORMATION.

SPECIFICATIONS
GRADING AND SHAPING
EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDING VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION
WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED, OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LEDGE AND GERMINATE.

LIME AND FERTILIZER
AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH.

QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY pH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.

SEEDING
SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND. SEE THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, FOR MORE INFORMATION.

MULCHING
TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO Ds1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, FOR MORE INFORMATION.

IRRIGATION
DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL ENSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

Ds2 15 **DETAIL**
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
SOURCE: GSWCC

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

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

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

Tac 17 **DETAIL**
TACKIFIER
SCALE: NTS
SOURCE: GSWCC

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

CONDITIONS
SLOPE STABILIZATION CAN BE APPLIED TO FLAT AREAS OR SLOPES WHERE THE EROSION HAZARD IS HIGH AND SLOPE PROTECTION IS NEEDED DURING THE ESTABLISHMENT OF VEGETATION.

PERFORMANCE EVALUATION
FOR A PRODUCT OR PRACTICE TO BE APPROVED AS SLOPE STABILIZATION, THAT PRODUCT OR PRACTICE MUST HAVE A DOCUMENTED C-FACTOR OF 0.080, AS SPECIFIED BY GSWCC. FOR COMPLETE TEST PROCEDURES AND APPROVED PRODUCTS LIST PLEASE VISIT WWW.GASWCC.GEORGIA.GOV.

PLANNING CONSIDERATIONS
CARE MUST BE TAKEN TO CHOOSE THE TYPE OF SLOPE STABILIZATION PRODUCT WHICH IS MOST APPROPRIATE FOR THE SPECIFIC NEEDS OF A PROJECT. TWO GENERAL TYPES OF SLOPE STABILIZATION PRODUCTS ARE DISCUSSED WITHIN THIS SPECIFICATION.

ROLLED EROSION CONTROL PRODUCTS (RECP)
A NATURAL FIBER BLANKET WITH SINGLE OR DOUBLE PHOTODEGRADABLE OR BIODEGRADABLE NETS.

HYDRAULIC EROSION CONTROL PRODUCTS (HECP)
HECP SHALL UTILIZE STRAW, COTTON, WOOD OR OTHER NATURAL BASED FIBERS HELD TOGETHER BY A SOIL BINDING AGENT WHICH WORKS TO STABILIZE SOIL PARTICLES. PAPER MULCH SHOULD NOT BE USED FOR EROSION CONTROL.

CRITERIA
ROLLED EROSION CONTROL PRODUCTS (RECPs) AND HYDRAULIC EROSION CONTROL PRODUCTS (HECPs):

- INSTALLATION AND STAPLING OF RECPs AND APPLICATION RATES FOR THE HECPs SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATION
- PRODUCTS SHALL HAVE A MAXIMUM C-FACTOR (ASTM D6459) FOR THE FOLLOWING GRADE:

SLOPE (H:V)	C-FACTOR (MAX)
3:1 OR GREATER	0.080

SITE PREPARATION
AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING INSTALLATION.

Ss 16 **DETAIL**
SLOPE PROTECTION
SCALE: NTS
SOURCE: GSWCC

ID	BERM ELEV (A)	SPILLWAY ELEV (B)	MAX OPERATING LEVEL (C)	VOLUME (AC-FT)
CWP-1	791.0	789.0	788.0	87.0
NCWP-1	777.0	775.0	774.0	239.4
NCWP-2	782.0	770.0	769.0	2.8
NCWP-3	763.0	761.0	760.0	10.2
NCWP-4	766.0	764.0	763.0	22.9
NCWP-5	745.0	743.0	742.0	141.2

NOTE:
1. CUTOFF TRENCH SHALL HAVE A MINIMUM DEPTH OF 2 FT, HORIZONTAL TO VERTICAL SLOPES OF 1:1, A MINIMUM BOTTOM WIDTH OF 2 FT, AND BE CONSTRUCTED OF RELATIVELY IMPERVIOUS MATERIAL, I.E. COMPACTED EARTH, SOIL-BENTONITE MIX, OR SLURRY.

18 17 **DETAIL**
STORMWATER PONDS
SCALE: NTS

METHODS AND MATERIALS

A. TEMPORARY METHODS

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

VEGETATIVE COVER. REFER TO Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

B. PERMANENT METHODS

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

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

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

Du 19 **DETAIL**
DUST CONTROL ON DISTURBED AREAS
SCALE: NTS
SOURCE: GSWCC

THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO MINIMIZE CCR FROM BECOMING AIRBORNE AT THE FACILITY, INCLUDING CCR FUGITIVE DUST ORIGINATING FROM CCR UNITS, ROADS, AND OTHER CCR MANAGEMENT AND MATERIAL HANDLING ACTIVITIES:

- FUGITIVE DUST ORIGINATING FROM THE CLOSURE OF AP-1 WILL BE CONTROLLED USING WATER SUPPRESSION, COMPACTION, SYNTHEIC OR VEGETATIVE COVERS, OR DUST SUPPRESSION AGENTS.
- CCR THAT IS TRANSPORTED VIA TRUCK TO THE EXISTING ONSITE LANDFILL WILL BE CONDITIONED TO APPROPRIATE MOISTURE CONTENT TO REDUCE THE POTENTIAL FOR FUGITIVE DUST.
- WATER SUPPRESSION WILL BE USED, AS NEEDED, TO CONTROL FUGITIVE DUST ON FACILITY ROADS USED TO TRANSPORT CCR AND OTHER CCR MANAGEMENT AREAS.
- SPEED LIMITS WILL BE USED TO REDUCE THE POTENTIAL FOR FUGITIVE DUST.
- TRUCKS USED TO TRANSPORT CCR WILL BE FILLED TO OR UNDER CAPACITY TO REDUCE THE POTENTIAL FOR MATERIAL SPILLAGE.

GPC PERSONNEL AND/OR THEIR CONTRACTORS SHALL PERFORM VISUAL OBSERVATIONS OF AP-1 AND SURROUNDING AREAS. APPROPRIATE CORRECTIVE ACTIONS FOR FUGITIVE DUST WILL BE IMPLEMENTED AS NECESSARY. LOGS WILL BE USED TO RECORD THE USE OF WATER-SPRAY EQUIPMENT. AMENDMENTS TO THE FUGITIVE DUST CONTROL PLAN MAY BE MADE AT ANY TIME AS REQUIRED DUE A CHANGE IN CONDITIONS THAT WOULD AFFECT THE IN-PLACE PLAN. ALL REVISIONS TO THE FUGITIVE DUST CONTROL PLAN WILL BE DOCUMENTED AND PLACED IN THE OPERATING RECORD. REFER TO THE CLOSURE PLAN SECTION 6.3.6.

Du-CCR 19A **DETAIL**
CCR FUGITIVE DUST CONTROL
SCALE: NTS

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

REGISTERED
ENGINEER
No. PE43417
PROFESSIONAL
JEREMY GASSER

0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP

STORMWATER AND ESC DETAILS - II

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL
HEARD AND CARROLL COUNTIES, GEORGIA

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