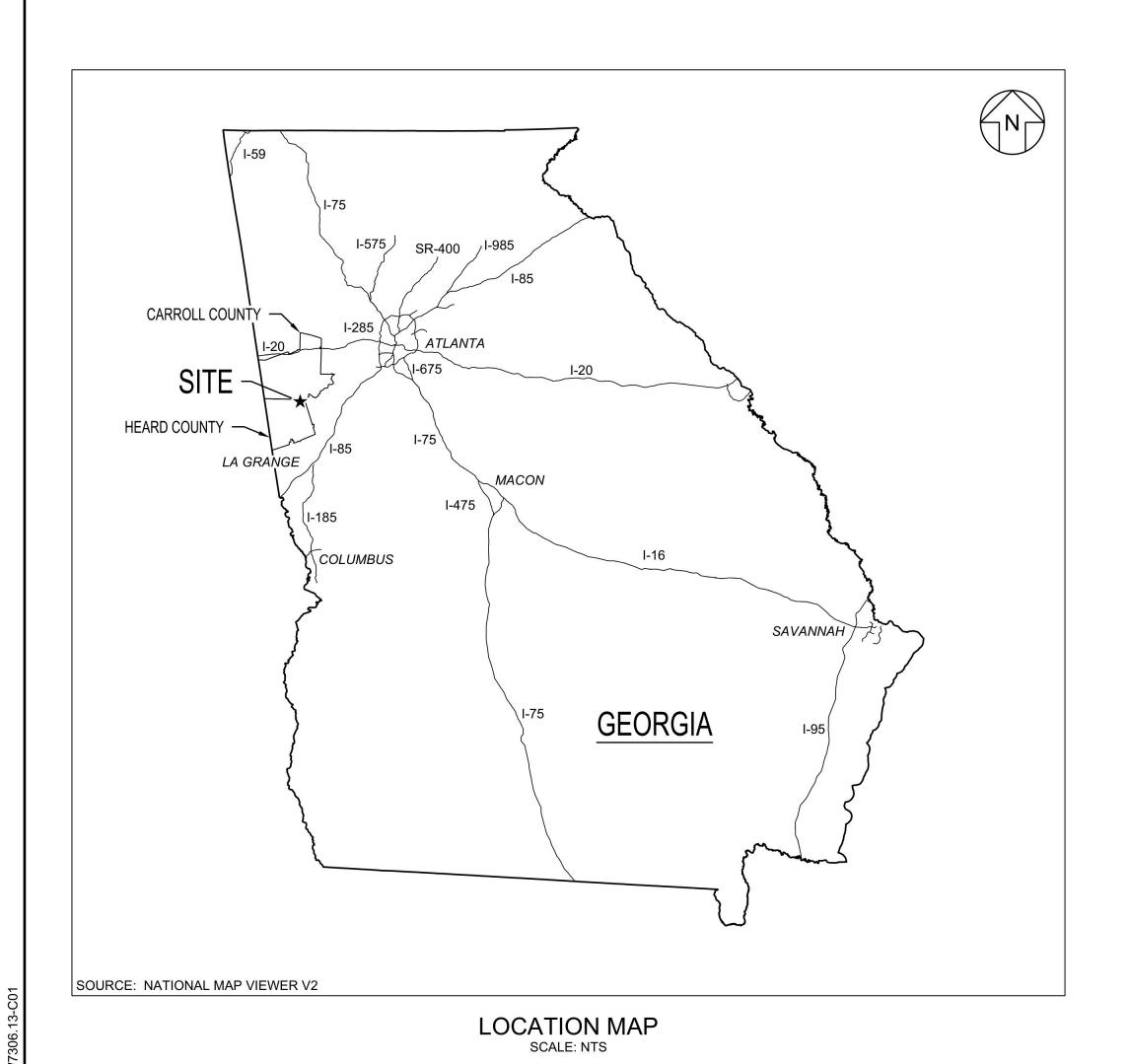
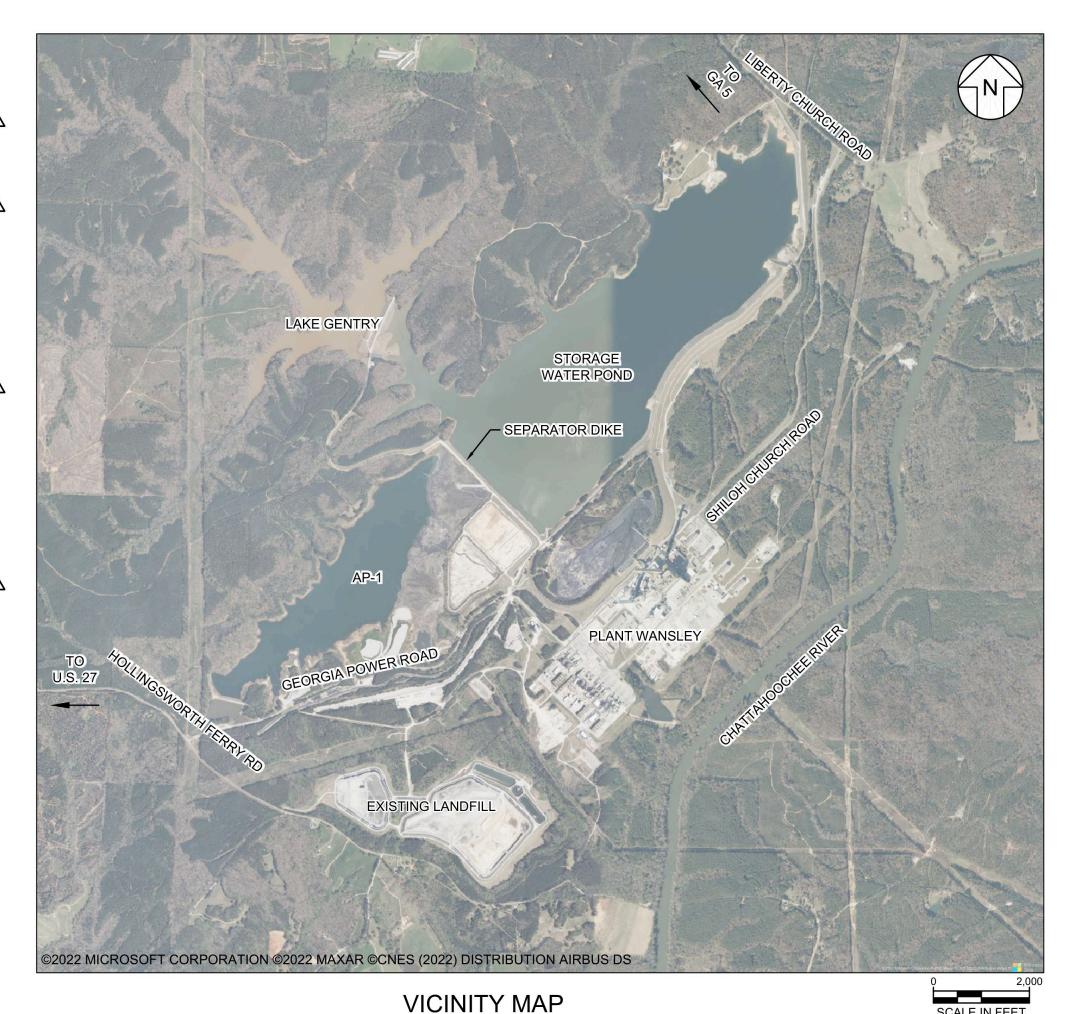
PLANT WANSLEY ASH POND 1 CLOSURE BY REMOVAL

HEARD AND CARROLL COUNTIES, GEORGIA

CCR PERMIT DRAWINGS JULY 2025



LIST OF DRAWINGS							
DWG NO.	DWG TITLE	CURRENT REV	DATE] ,			
01	COVER SHEET	1	7/9/2025) /			
02	LEGENDS, SYMBOLS, AND ABBREVIATIONS		2/6/2025	[_			
03	PROPERTY BOUNDARY SURVEY AND LEGAL DESCRIPTION	1	7/9/2025				
04	SITE GROUNDWATER MONITORING PLAN	1	7/9/2025) /.			
05	EXISTING SITE CONDITIONS - TOPOGRAPHY AND AP-1 BATHYMETRY	1	7/9/2025	\mathbb{Z}^{\prime}			
06	CCR REMOVAL PLAN - OVERVIEW	1	7/9/2025	}			
07	CCR REMOVAL PLAN - I		2/6/2025				
08	CCR REMOVAL PLAN - II	0	2/6/2025				
09	CCR REMOVAL PLAN - III	0	2/6/2025				
10	CCR REMOVAL PLAN - IV		2/6/2025				
11	CCR REMOVAL PLAN - V	1	7/9/2025	1 /			
12	SITE RESTORATION GRADING PLAN	1	7/9/2025)/			
13	SEPARATOR DIKE PLAN		7/9/2025				
14	SITE SECTIONS - I	0	2/6/2025				
15	SITE SECTIONS - II	0	2/6/2025				
16	SEPARATOR DIKE SECTIONS	0	2/6/2025				
17	CONSTRUCTION SEQUENCING PLAN - I	0	2/6/2025				
18	CONSTRUCTION SEQUENCING PLAN - II		2/6/2025				
19	FINAL STORMWATER AND ESC PLAN	1	7/9/2025)			
20	STORMWATER AND ESC DETAILS - I		2/6/2025	1			
21	STORMWATER AND ESC DETAILS - II	0	2/6/2025				
22	STORMWATER AND ESC DETAILS - III	0	2/6/2025				



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





Geosyntec											
	PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA										
	COVER SHEET										
REV	DATE	DESCRIPTION	DESCRIPTION DRN APP								
0	02.06.25	GA EPD CCR PERMIT DRAWINGS DLJ JMG									
1 07.09.25 MINOR PERMIT MOD 1 - REVISION TO AP-1 PERMIT BOUNDARY WSA JMG											

Georgia

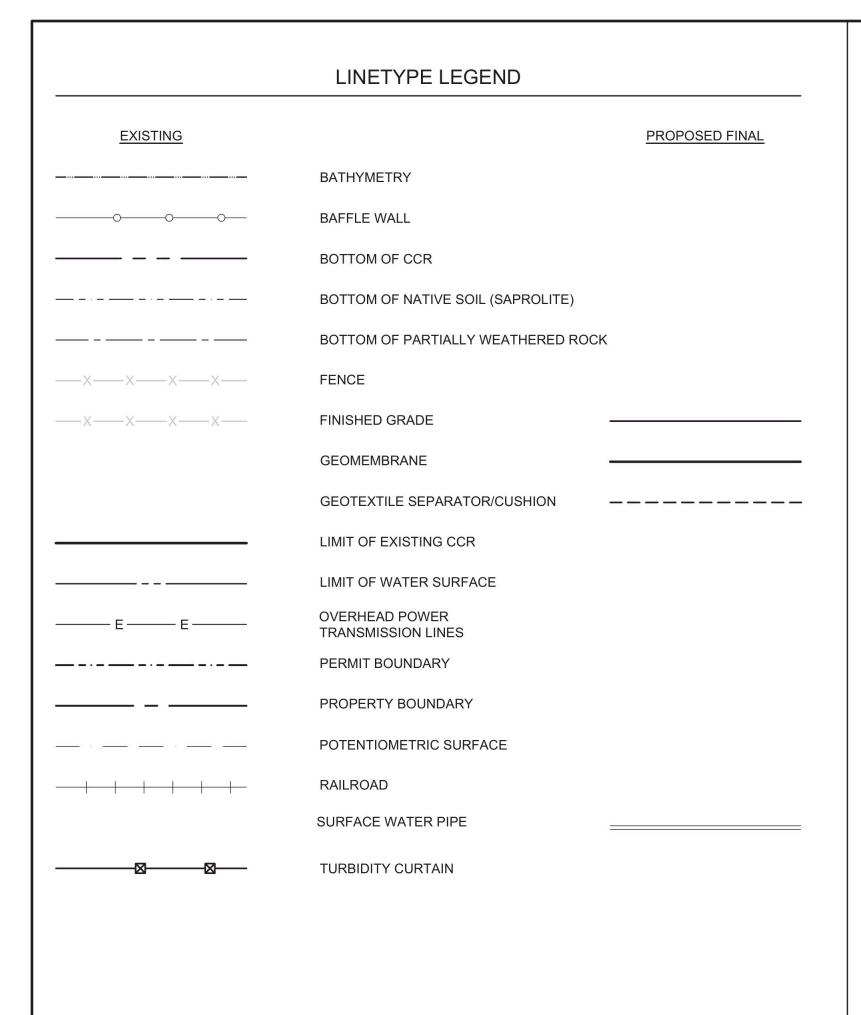
Power

DRAWING 01 OF 22

consultants 255 ROBERTS BOULEVARD, NW. SUITE 200 PHONE: 678.202.950 DWG. GW7306.13-C01 EDIT

AS SHOWN

FEBRUARY 2025



SYMBOL LEGEND

MONITORING WELL - ASSESSMENT

MONITORING WELL - UPGRADIENT

MONITORING WELL - DOWNGRADIENT

FREE WATER SURFACE

PIEZOMETER

SLOPE GRADE

SLOPE LABEL

VEGETATION

SLOPE INDICATOR

TRAILER OR BUILDING

WATER FLOW DIRECTION

PROPOSED FINAL

4%

→ CREST

EXISTING

♣ WGWC-11

▲ WGWC-11

WGWA-7

PZ-4

DETAIL AND SECTION IDENTIFICATION LEGEND

HATCH PATTERN LEGEND

CONTRACTOR LAY DOWN AREA

DEEP SOIL MIX ZONE

PROTECTIVE SOIL LAYER

RIPRAP - SEEPAGE BERM

WATER SURFACE

CCR

CONCRETE

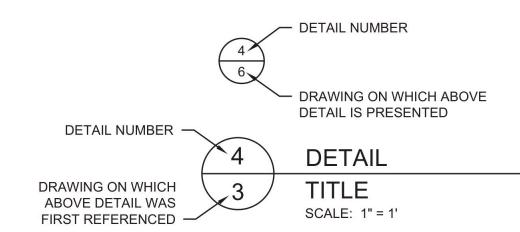
HYDROSEED

RIPRAP

SAND

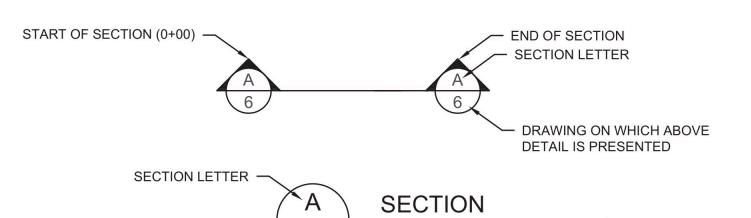
COMPONENT

SYMBOL



EXAMPLE: DETAIL NUMBER 4 WHICH IS PRESENTED ON DRAWING NO. 6 WAS FIRST REFERENCED ON DRAWING NO. 3.

ABOVE SYSTEM ALSO APPLIES TO SECTION IDENTIFICATIONS.



EXAMPLE: SECTION LETTER "A" WHICH IS PRESENTED ON DRAWING NO. 6 WAS FIRST REFERENCED ON DRAWING NO. 3.

SCALE: 1" = 100' (HORIZONTAL); 1" = 20' (VERTICAL)

NOTE: CONVENTION PROVIDED ABOVE IS APPLICABLE

SECTION LETTER ON WHICH

ABOVE DETAIL WAS

FIRST REFERENCED -

ABBREVIATIONS

PERCENT OR PERCENTILE

APPROVED BY

AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

ACRES ASH POND 1

APPROX APPROXIMATE AMERICAN SOCIETY FOR TESTING AND MATERIALS

BEST MANAGEMENT PRACTICE

COAL COMBUSTION RESIDUALS

CONSTRUCTION QUALITY ASSURANCE

CENTERLINE DIAMETER

DRN **DRAWN BY** DRAWING

EASTING

E.G. FOR EXAMPLE EL **ELEVATION**

FT **FEET**

GA EPD GEORGIA ENVIRONMENTAL PROTECTION DIVISION

GEORGIA DEPARTMENT OF TRANSPORTATION **GDOT**

GEORGIA POWER COMPANY

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

HORIZONTAL TO VERTICAL LENGTH RATIO FOR A SLOPE HIGH DENSITY POLYETHYLENE

HECP HYDRAULIC EROSION CONTROL PRODUCTS

THAT IS ID **IDENTIFIER**

IN. INCH INV INVERT

LBS **POUNDS**

LINEAR LOW DENSITY POLYETHYLENE

LOD LIMITS OF DISTURBANCE

MAX MAXIMUM

ONE-THOUSANDTH OF AN INCH

MIN MINIMUM

NITROGEN / NORTH / NORTHING

NAD83 NORTH AMERICAN DATUM OF 1983 NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988

NUMBER

NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

NITROGEN-PHOSPHORUS-POTASSIUM

NATIONAL STONE ASSOCIATION

NORTHWEST

ON CENTER

PERIMETER CHANNEL

PARTS PER MILLION

PARTIALLY WEATHERED ROCK

PIEZOMETER

ROLLED EROSION CONTROL PRODUCTS

REV

SOUTHERN COMPANY SERVICES

SILT FENCE

SQUARE FEET

STA STATION

TYP **TYPICAL** WATER SURFACE W.S.

REFERENCE NOTES

GENERAL NOTES:

1. GRID COORDINATE SYSTEM CORRESPONDS TO NAD83, GEORGIA WEST ZONE.

2. ELEVATIONS PRESENTED ARE IN FEET, NAVD88.

3. 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.

4. BATHYMETRY REFLECTS THE CONDITIONS AT THE TIME OF THE SURVEY AND MAY NOT REFLECT CURRENT

5. PLANIMETRIC FEATURES AND PROPERTY BOUNDARY ARE APPROXIMATE AND WERE OBTAINED FROM ELECTRONIC FILES PROVIDED BY SCS IN NOVEMBER 2016.

6. 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

7. 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.

8. 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

9. TOP OF EXISTING CCR WAS ASSUMED AS THE BATHYMETRIC SURFACE IN AREAS COVERED BY WATER AND AS EXISTING GROUND IN DRY AREAS.

10. 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

11. NO WORK SHALL SIGNIFICANTLY IMPACT THE EXISTING SEPARATOR DIKE BETWEEN AP-1 AND THE STORAGE WATER POND.

12. 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).

NPDES PERMIT NO. GA0026778, WHICH WAS APPROVED BY GA EPD ON NOVEMBER 29, 2021.

13. 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,

14. 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). 15. 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. 16. MONITORING WELL AND PIEZOMETER COORDINATES WERE OBTAINED FROM THE GROUNDWATER MONITORING PLAN (SECTION 6 OF PART A WITHIN THIS PERMIT APPLICATION).

17. ACCESS ROADS, ACCESS RAMPS, AND ASSOCIATED STORMWATER FEATURES WILL BE EVALUATED AS PART OF THE DETAILED DESIGN.

CONTOUR LEGEND

PROPOSED EXISTING

BATHYMETRIC ELEVATION (FEET) — · · · — 400 — · · · — **EXISTING GROUND ELEVATION (FEET)**

> FINISHED GRADE ELEVATION (FEET)

02.06.25 GA EPD CCR PERMIT DRAWINGS REV DATE DRN APP DESCRIPTION

LEGENDS, SYMBOLS, AND ABBREVIATIONS

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



GW9155

AS SHOWN

FEBRUARY 2025

consultants

PHONE: 678.202.950 WWW.GEOSYNTEC.COM

Georgia Power DWG. GW7306.13-C02 EDIT

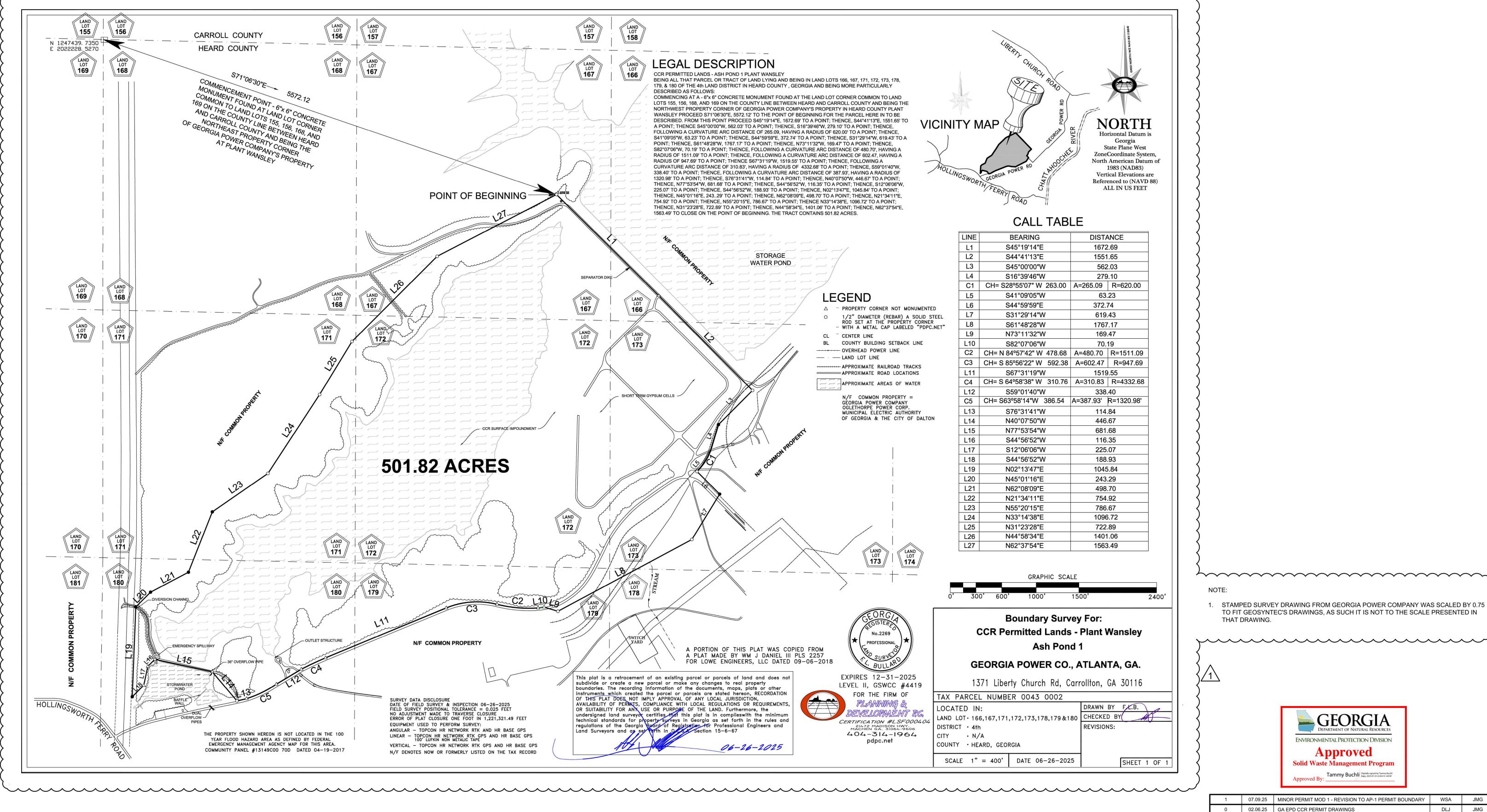
DRAWING 02 OF 22

Digitally signed by GEORGIA ENVIRONMENTAL PROTECTION DIVISION Approved **Solid Waste Management Program** Approved By: Keith Stevens Digitally signed by Keith Stev. Date: 2025.02.27 10:47:49-05\

Date: 2025.02.07 10:17:54 -06'00' PROFESSIONAL

255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA PROJ. NO.

SCALE



NOTE:

Digitally signed _by Jeremy Gasse Date: 2025.07.10

08:42:52 -05'00'

1. STAMPED SURVEY DRAWING FROM GEORGIA POWER COMPANY WAS SCALED BY 0.75 TO FIT GEOSYNTEC'S DRAWINGS, AS SUCH IT IS NOT TO THE SCALE PRESENTED IN THAT DRAWING.

> GEORGIA **ENVIRONMENTAL PROTECTION DIVISION Solid Waste Management Program**

1	07.09.25	MINOR PERMIT MOD 1 - REVISION TO AP-1 PERMIT BOUNDARY	WSA	JMG
0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP

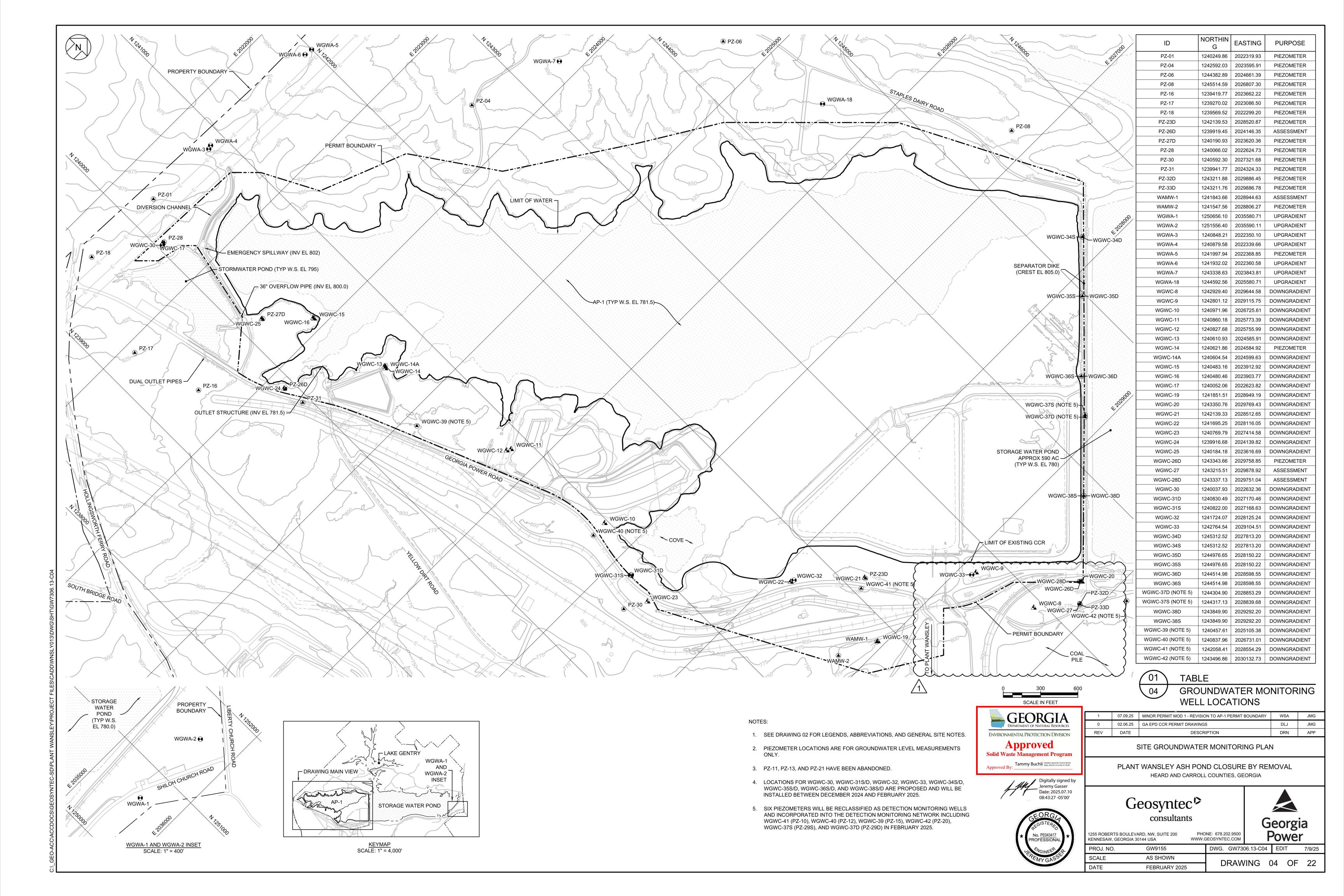
PROPERTY BOUNDARY SURVEY AND LEGAL DESCRIPTION

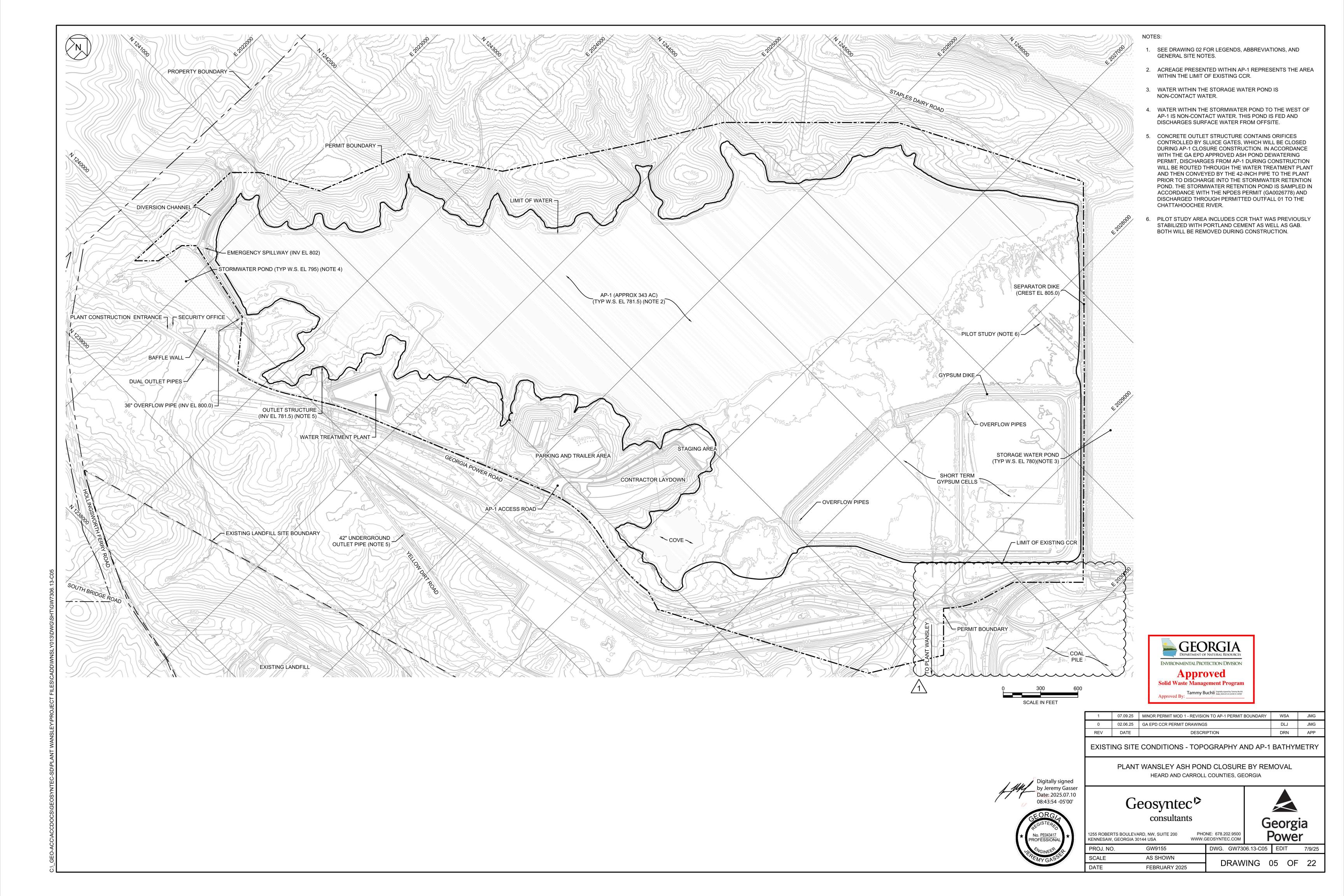
PLANT WANSLEY ASH POND CLOSURE BY REMOVAL HEARD AND CARROLL COUNTIES, GEORGIA



Georgia

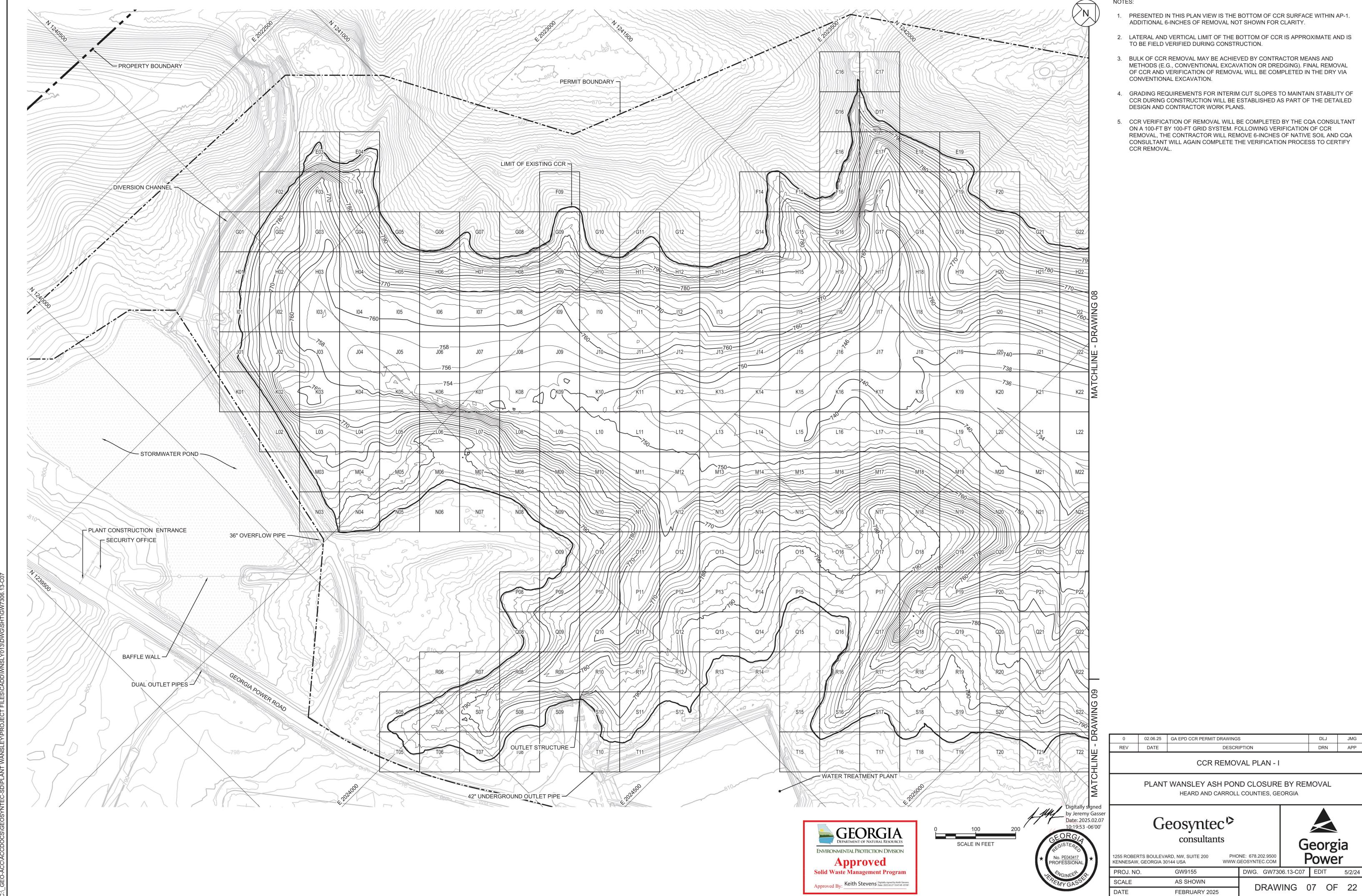
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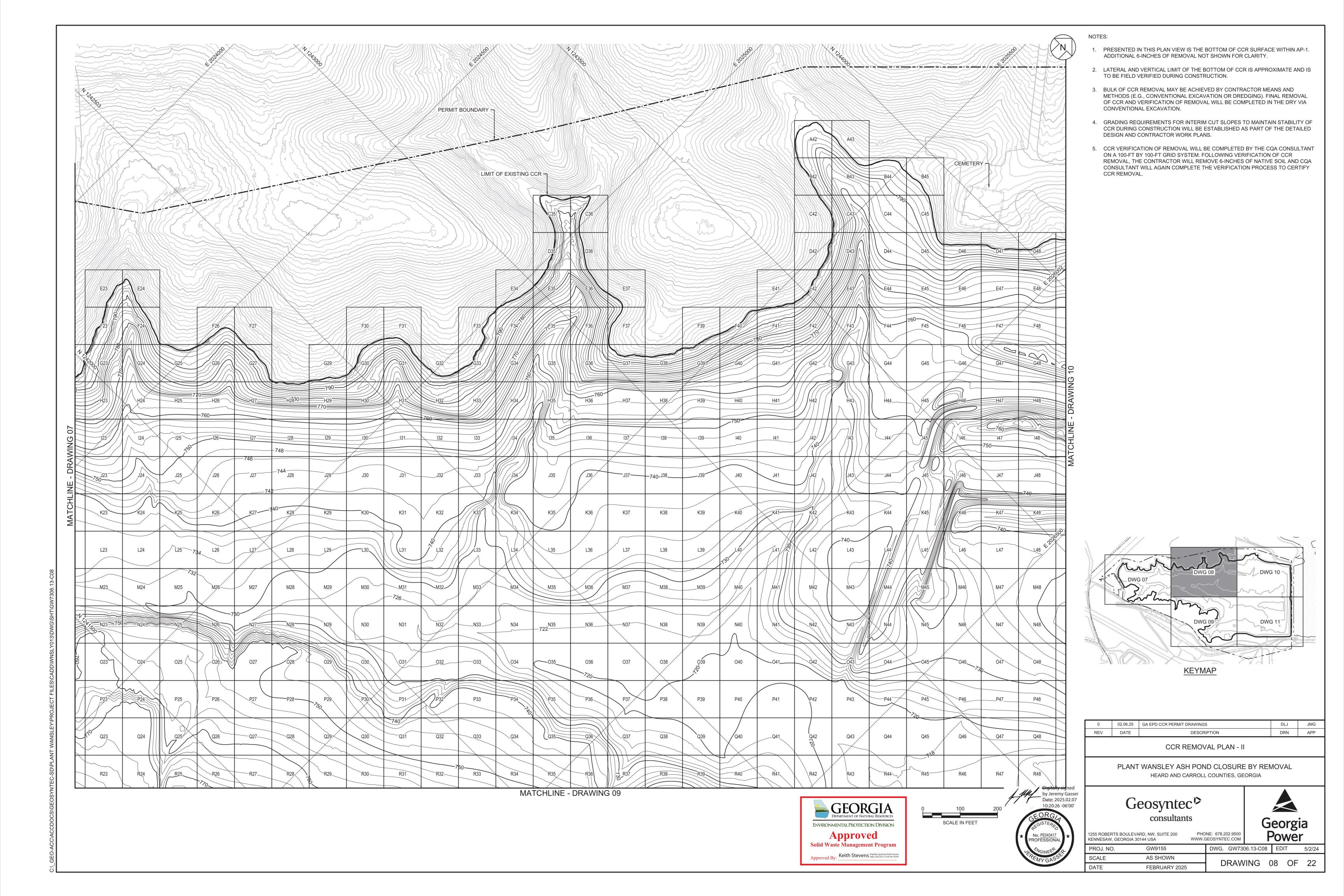
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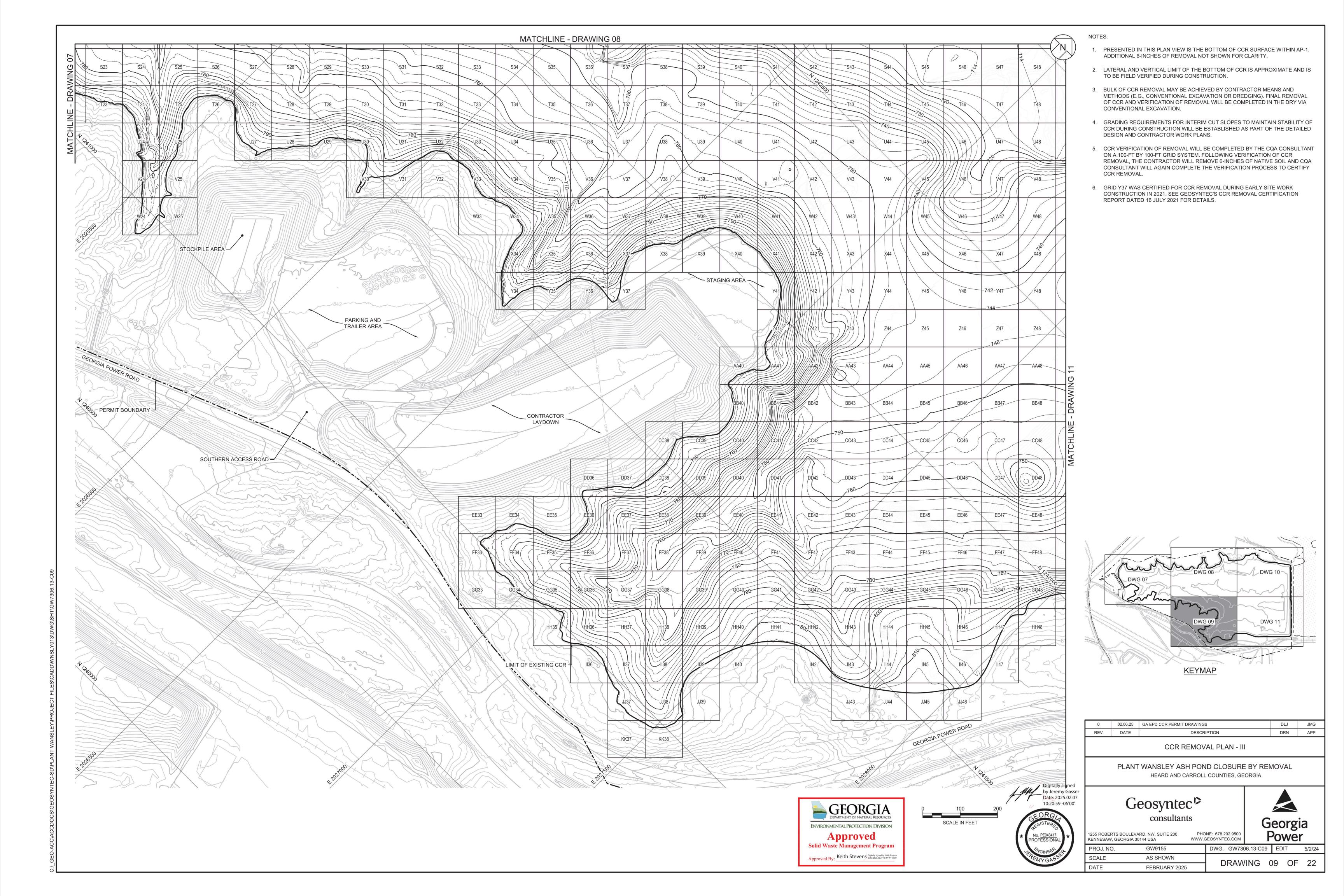
FEBRUARY 2025

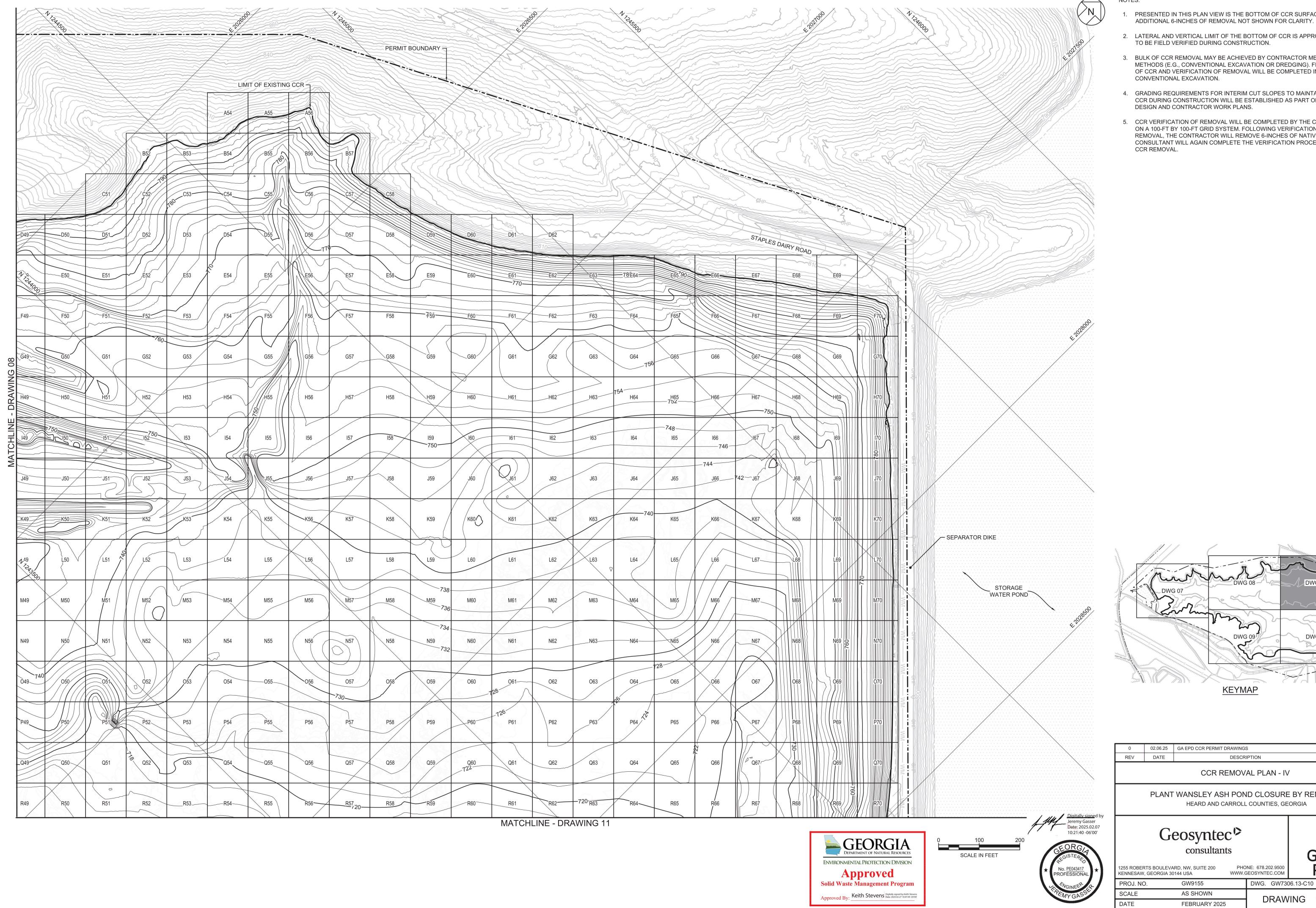


DRN APP

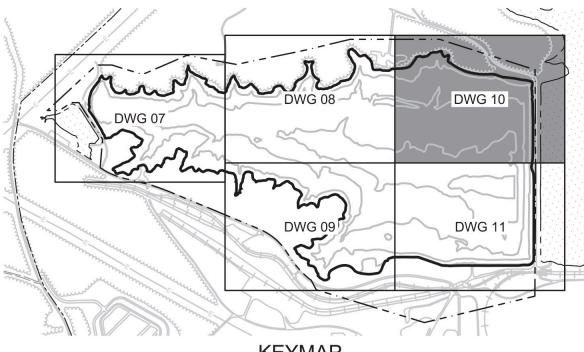
DRAWING 07 OF 22 FEBRUARY 2025







- 1. PRESENTED IN THIS PLAN VIEW IS THE BOTTOM OF CCR SURFACE WITHIN AP-1.
- 2. LATERAL AND VERTICAL LIMIT OF THE BOTTOM OF CCR IS APPROXIMATE AND IS
- 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
- 4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY OF CCR DURING CONSTRUCTION WILL BE ESTABLISHED AS PART OF THE DETAILED
- 5. 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

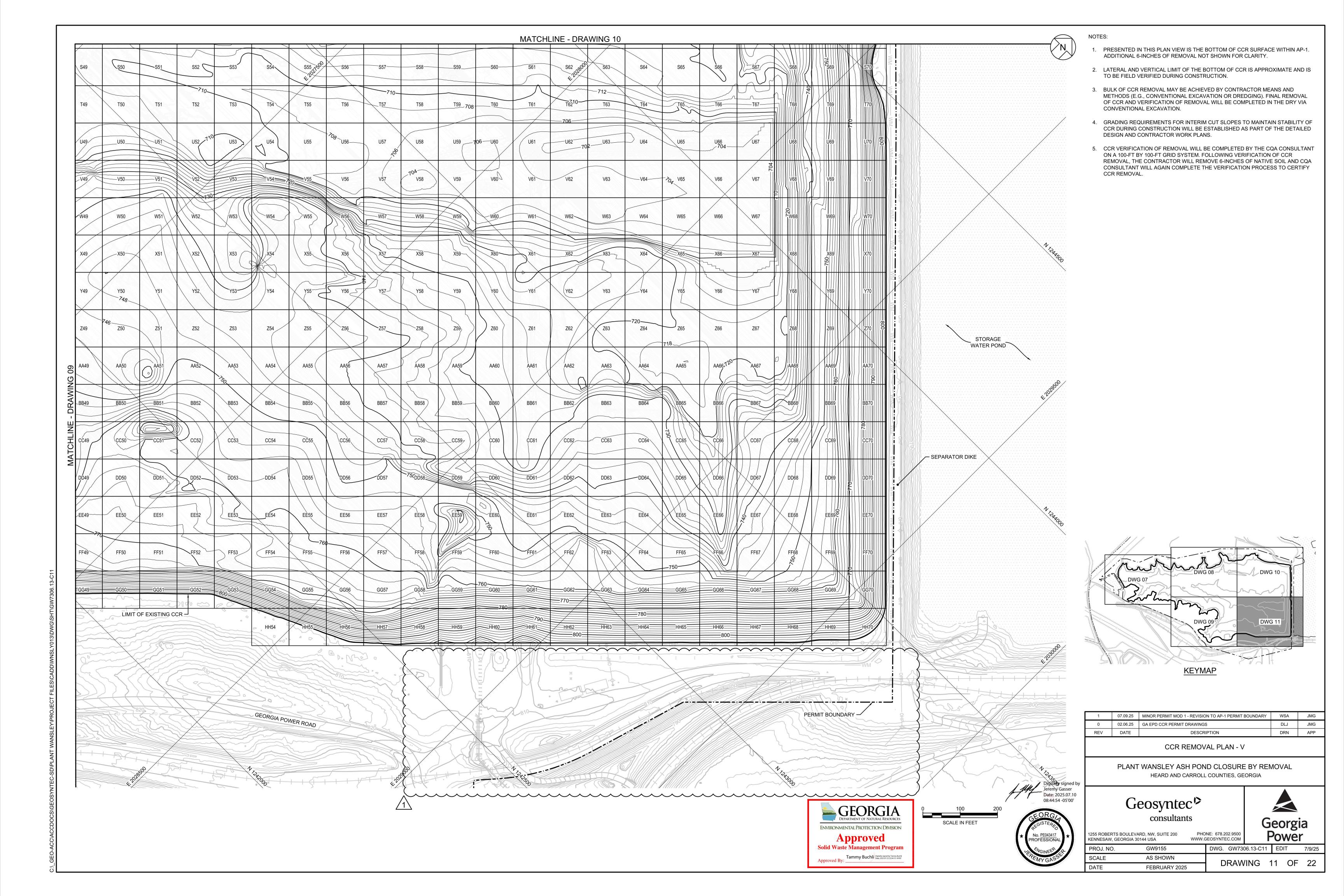


0	02.06.25	GA EPD CCR PERMIT DRAWINGS	DLJ	JMG
REV	DATE	DESCRIPTION	DRN	APP

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

Georgia Power

DWG. GW7306.13-C10 EDIT 5/2/24 DRAWING 10 OF 22 FEBRUARY 2025



08:45:37 -05'00'

PROFESSIONAL

consultants

GW9155

AS SHOWN

FEBRUARY 2025

1255 ROBERTS BOULEVARD, NW, SUITE 200

KENNESAW, GEORGIA 30144 USA

PROJ. NO.

SCALE

DATE

PHONE: 678.202.9500

WWW.GEOSYNTEC.COM

Georgia

Power

DWG. GW7306.13-C12 EDIT 7/9/25

DRAWING 12 OF 22

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Approved

Solid Waste Management Program

Approved By:

Tammy Buchli Digitally signed by Tammy Buchli Date: 2025.07.23 22.04:10-0400

VERIFICATION PROCESS IS COMPLETED.

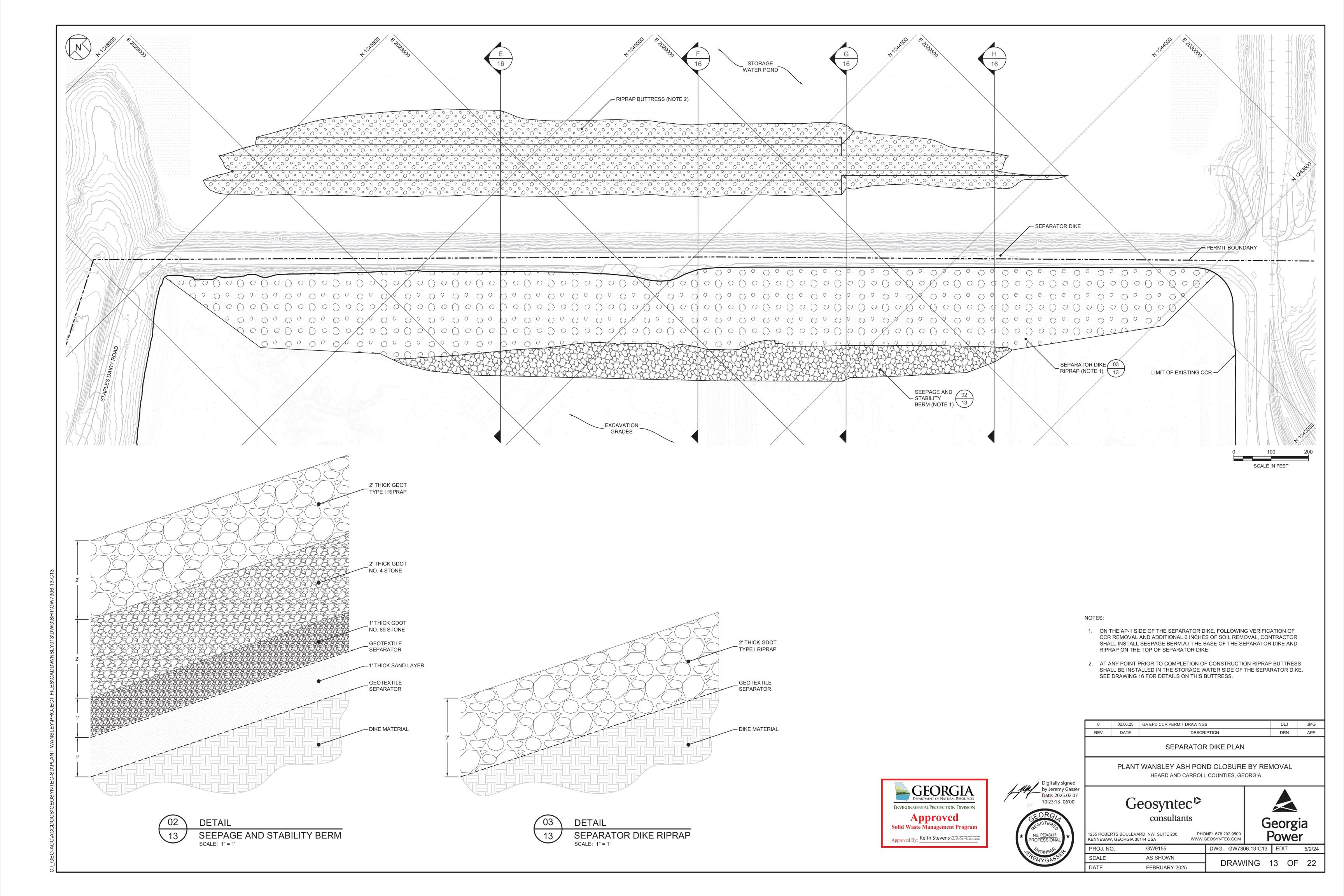
SEPARATOR DIKE.

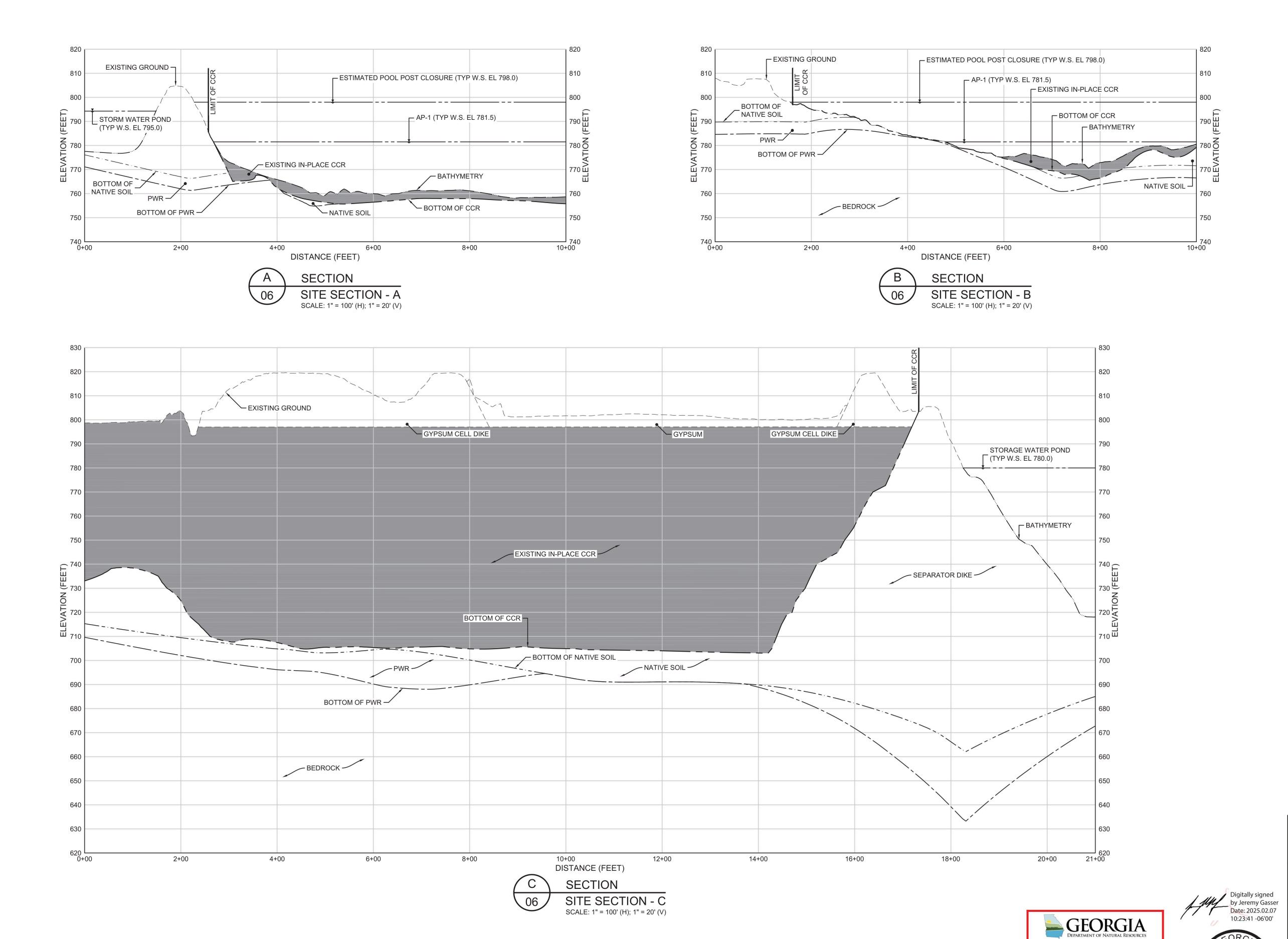
4. UPON VERIFICATION OF CCR REMOVAL AND ADDITIONAL 6 INCHES OF

SOIL REMOVAL FROM AP-1, CONTRACTOR SHALL PLACE RIPRAP

5. SEE DRAWING 13 FOR DETAILS ON THE SEPARATOR DIKE RIPRAP.

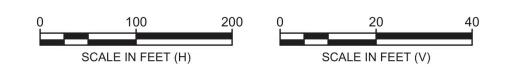
DETAILED ALONG THE ENTIRETY OF THE UPSTREAM (AP-1) SIDE OF THE





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.



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

FEBRUARY 2025

consultants

ENVIRONMENTAL PROTECTION DIVISION

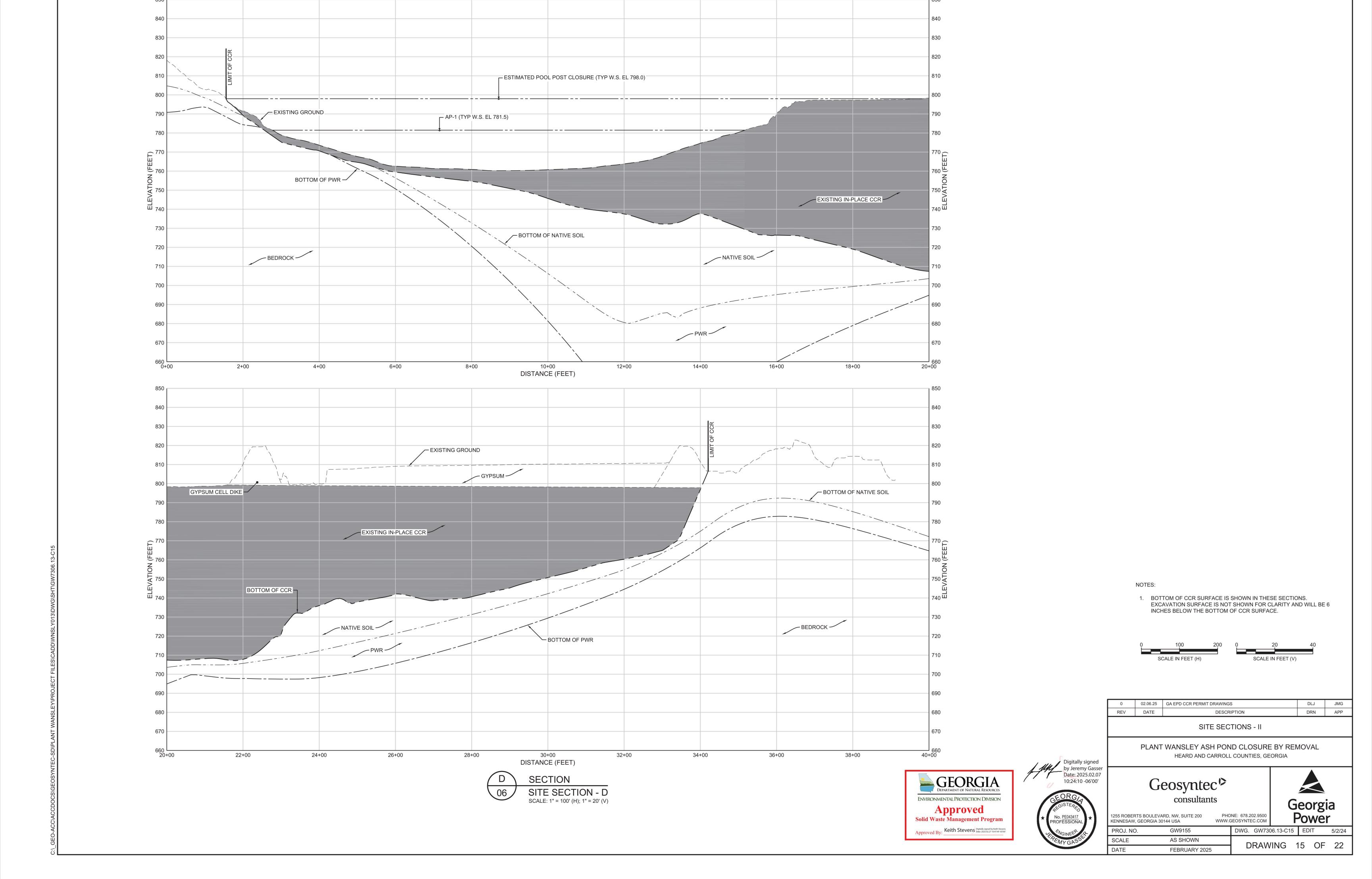
Approved

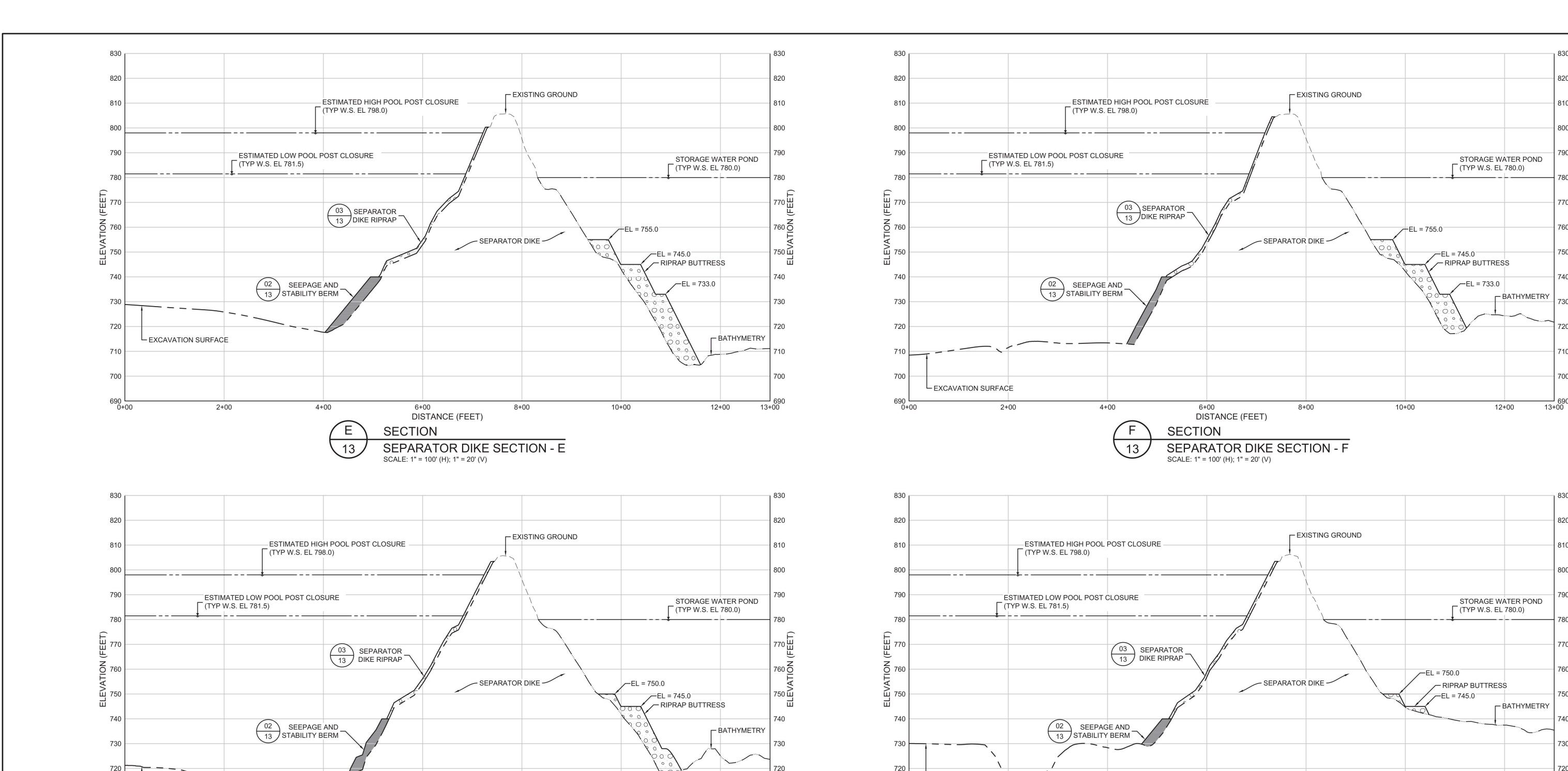
Approved By: Keith Stevens Digitally signed by Keith Steve

Solid Waste Management Program

Georgia Power

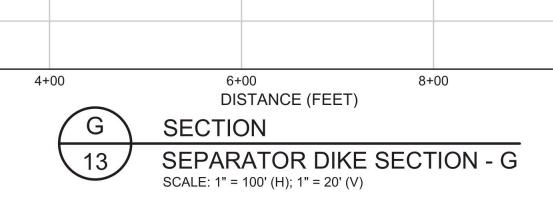
PHONE: 678.202.9500 WWW.GEOSYNTEC.COM 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144 USA PROJ. NO. GW9155 DWG. GW7306.13-C14 EDIT 5/2/24 SCALE AS SHOWN DRAWING 14 OF 22





L EXCAVATION SURFACE

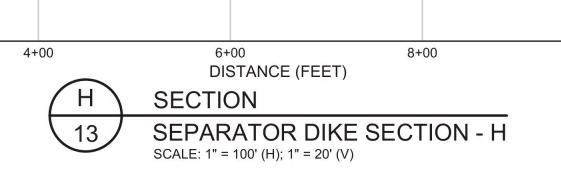
2+00



10+00

12+00

13+00



NOTES:

 SEE DETAILS ON DRAWING 13 FOR PLACEMENT OF MATERIALS ON THE AP-1 SIDE OF THE SEPARATOR DIKE.

2+00

2. RIPRAP BUTTRESS SHALL CONSIST OF GDOT TYPE 1 RIPRAP.

LEXCAVATION SURFACE



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

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL

HEARD AND CARROLL COUNTIES, GEORGIA

13+00

12+00

Geosyntec consultants

10+00

COTISUITATIES

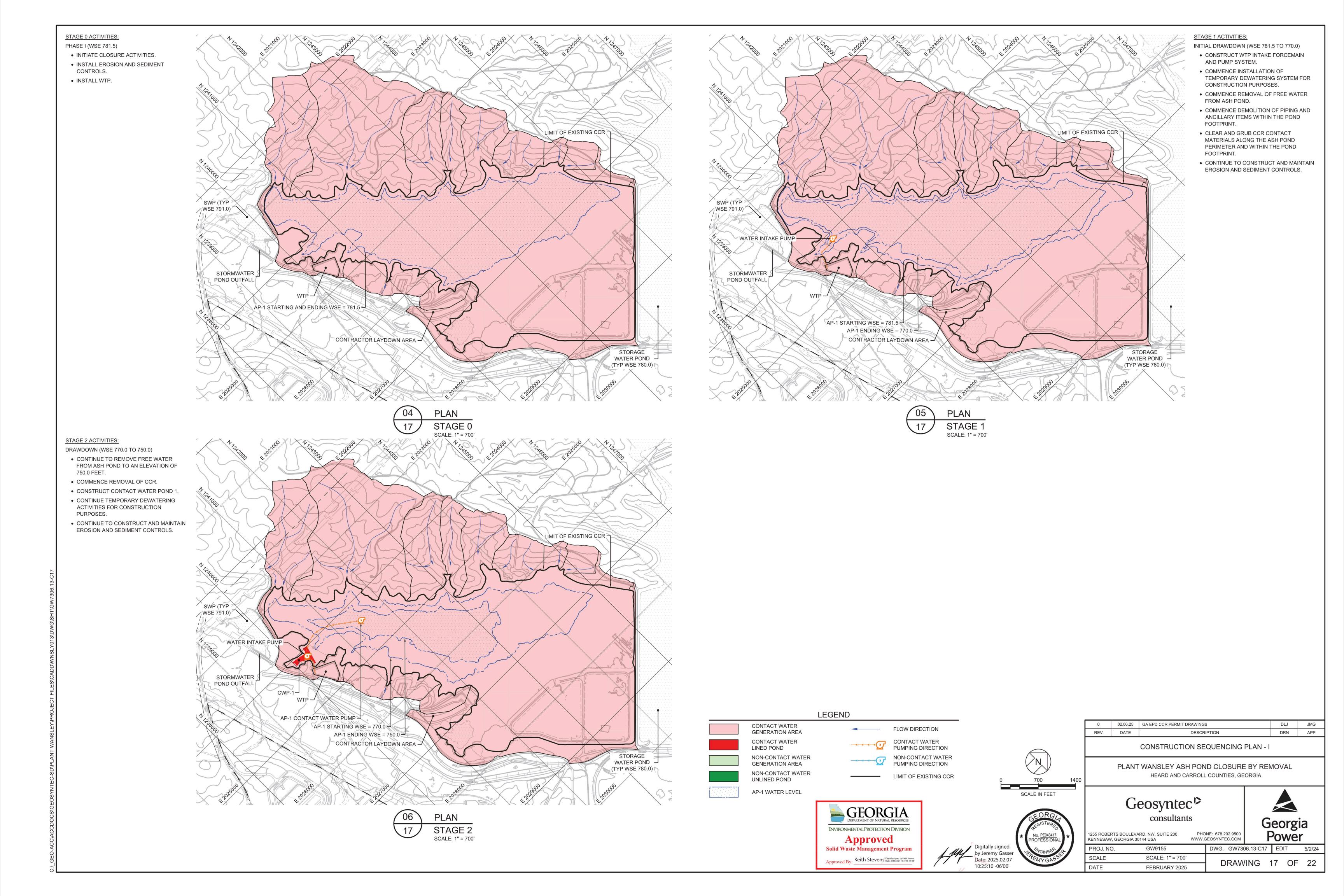
1255 ROBERTS BOULEVARD, NW, SUITE 200 PHONE: 678.202.9500

Georgia Power 06.13-C16 EDIT 5/2/24

*			2			
PROJ. NO.	GW9155	DWG. GW730	06.13-C16	EDI	Т	5/2/24
SCALE	AS SHOWN		/INIC	16	OF	22
DATE	FEBRUARY 2025	DRAW	ING	10	OF	22

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EO-ACC\ACCDOCS\GEOSYNTEC-SD\PLANT WANSLEY\PROJECT FIL



STAGE 3 ACTIVITIES: STAGE 4 ACTIVITIES: DRAWDOWN CONTINUED (WSE 750.0 TO 730.0) CCR REMOVAL (WSE 730.0 TO 700.0) CONTINUE TO REMOVE FREE WATER COMPLETE FREE WATER REMOVAL FROM ASH POND TO AN ELEVATION OF WITHIN THE ASH POND. CONSTRUCT NCWP 5. ENSURE MAXIMUM CONSTRUCT NON-CONTACT WATER BERM HEIGHTS OF 25 FT AND STORAGE PONDS (NCWP) 1, 2, 3 AND 4. ENSURE CAPACITIES OF LESS THAN 100 AC-FT. MAXIMUM BERM HEIGHTS OF 25 FT AND CONSTRUCTION CWP-2. STORAGE CAPACITIES OF LESS THAN 100 COMPLETE REMOVAL OF CCR AND CERTIFY. CONSTRUCT FORCEMAINS TO CONVEY COMMENCE CONTACT WATER NON-CONTACT STORMWATER FROM MANAGEMENT WITHIN THE ASH POND. NCWPS 2, 3 AND 4 TO NCWP 1, AND FROM LIMIT OF EXISTING CCR -LIMIT OF EXISTING CCR -NCWP 1 TO THE WESTERN STORMWATER CONTINUE TO CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROLS. CONTINUE REMOVAL OF CCR AND COMPLETE PLACEMENT OF CHANNEL CERTIFY. BEDDING AND ARMORING MATERIALS FOR **EROSION PROTECTION IN EXPOSED** CONTINUE TEMPORARY DEWATERING CHANNELS. ACTIVITIES FOR CONSTRUCTION • COMPLETE SEPARATOR DIKE SLOPE ARMORING FOR EROSION PROTECTION. CONTINUE TO CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROLS. SWP (TYP WATER INTAKE PUMP -WATER INTAKE PUMP -NCWP-5 STORMWATER \$ STORMWATER POND OUTFALL POND OUTFALL CWP-1 AP-1 STARTING WSE = 750.0 AP-1 CONTACT WATER PUMP AP-1 ENDING WSE = 730.0 CONTRACTOR LAYDOWN AREA -CONTRACTOR LAYDOWN AREA -AP-1 STARTING WSE = 730.0 STORAGE STORAGE WATER POND WATER POND AP-1 CONTACT WATER PUMP (TYP WSE 780.0) (TYP WSE 780.0) AP-1 ENDING WSE = 700.0 PLAN **PLAN** STAGE 4 STAGE 3 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 LIMIT OF EXISTING CCR -STABILIZATION. PLACE RIPRAP AND SEEPAGE BERM ON BREACH / REMOVE NCWP-3 THE AP-1 SIDE OF THE SEPARATOR DIKE. BREACH / REMOVE NCWP-4 PLACE RIPRAP BUTTRESS ON THE STORAGE WATER POND OF THE SEPARATOR DIKE. ASH POND 1 CLOSURE ACTIVITIES ARE BREACH / REMOVE -NCWP-1 COMPLETE. SWP (TYP / WSE 791.0) BREACH / REMOVE NCWP-5 -STORMWATER / POND OUTFALL BREACH / REMOVE CWP-1 REMOVE WTP **LEGEND** 02.06.25 GA EPD CCR PERMIT DRAWINGS CONTACT WATER FLOW DIRECTION **GENERATION AREA** REV DATE DESCRIPTION CONTRACTOR LAYDOWN AREA -CONTACT WATER PUMPING DIRECTION **CONTACT WATER** CONSTRUCTION SEQUENCING PLAN - II LINED POND STORAGE WATER POND (TYP WSE 780.0) NON-CONTACT WATER PUMPING DIRECTION NON-CONTACT WATER GENERATION AREA PLANT WANSLEY ASH POND CLOSURE BY REMOVAL BREACH / REMOVE CWP-2 NON-CONTACT WATER HEARD AND CARROLL COUNTIES, GEORGIA LIMIT OF EXISTING CCR UNLINED POND

PLAN

STAGE 5

AP-1 WATER LEVEL

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Approved

Solid Waste Management Program

Approved By: Keith Stevens Digitally signed by Keith Stevens Date: 2025.02.27 10.47:49 -050

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Geosyntec[⋄]

SCALE IN FEET

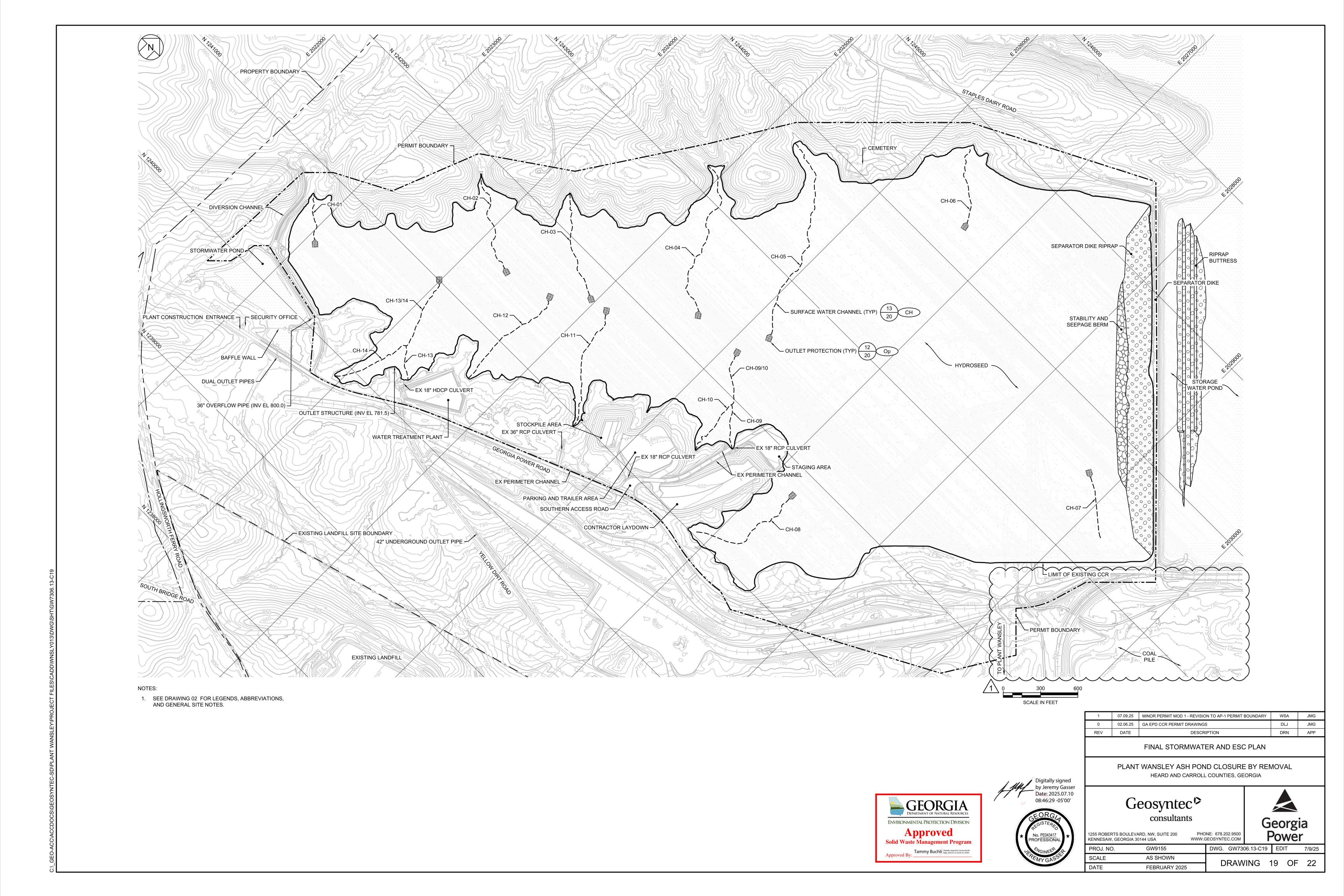
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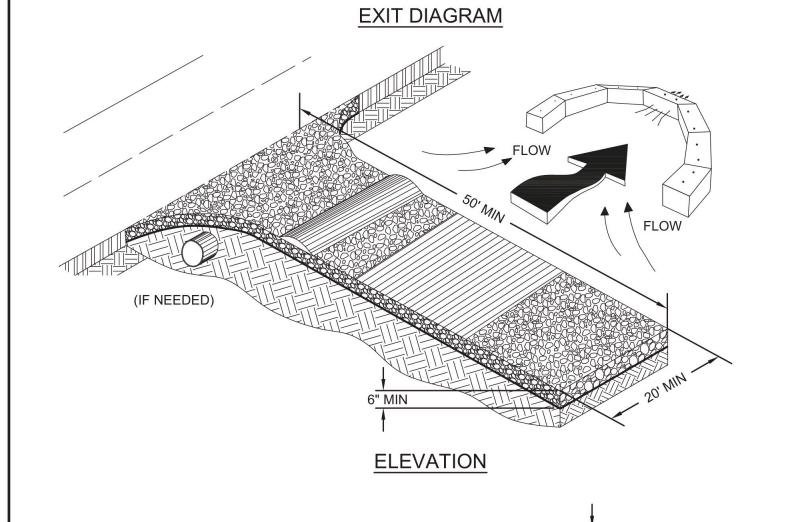
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Power KENNESAW, GEORGIA 30144 USA DWG. GW7306.13-C18 | EDIT 5/2/24 PROJ. NO. GW9155 SCALE SCALE: 1" = 700' DRAWING 18 OF 22 FEBRUARY 2025

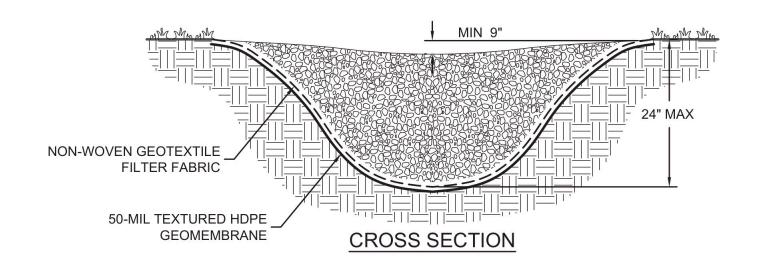
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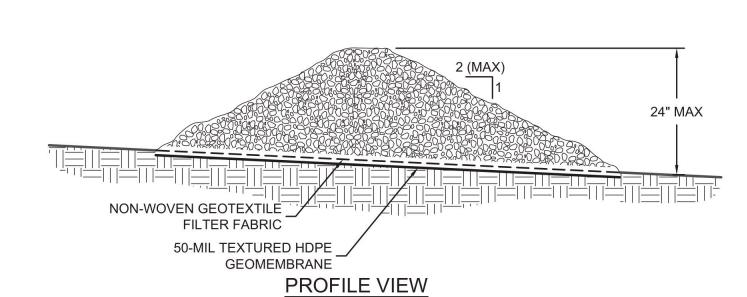




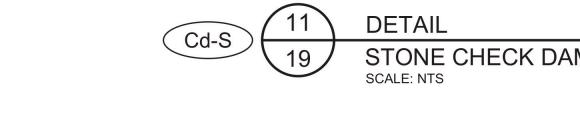
- 1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
- 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
- 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION (NSA) R-2 (1.5"-3.5" STONE).
- 4. GRAVEL 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.

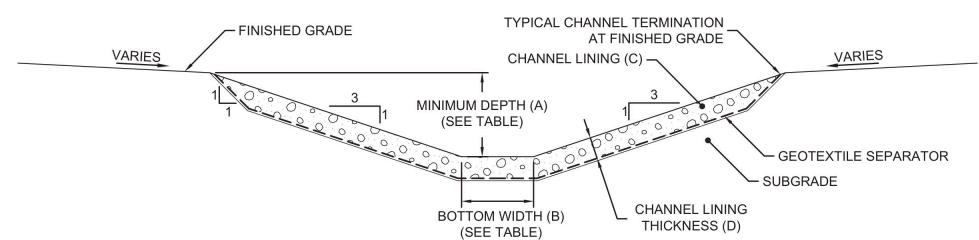






- 1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
- 2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
- 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
- 4. THE DAM HEIGHT SHOULD BE A MAXIMUM 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.





1. CHANNEL STABILIZATION (CH-1)

NOTES:

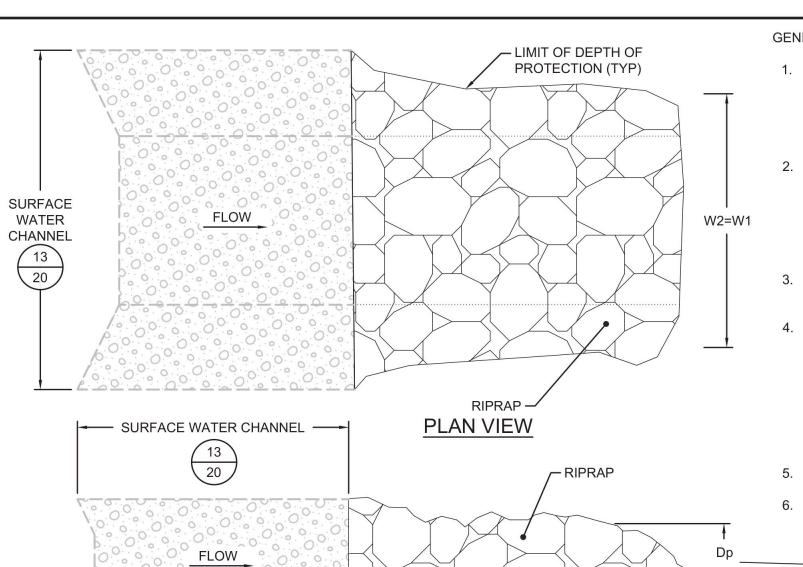
- 1.1. VEGETATED LINING: VELOCITIES OF LESS THAN 5FT/SEC.
- 1.2. EROSION CONTROL BLANKETS/SOD REQUIRED TO ESTABLISH VEGETATION.

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





SEPARATOR

DESIGN STORM NORMAL DEPTH -DITCH BOTTOM -GEOTEXTILE -

PROFILE VIEW

GENERAL NOTES:

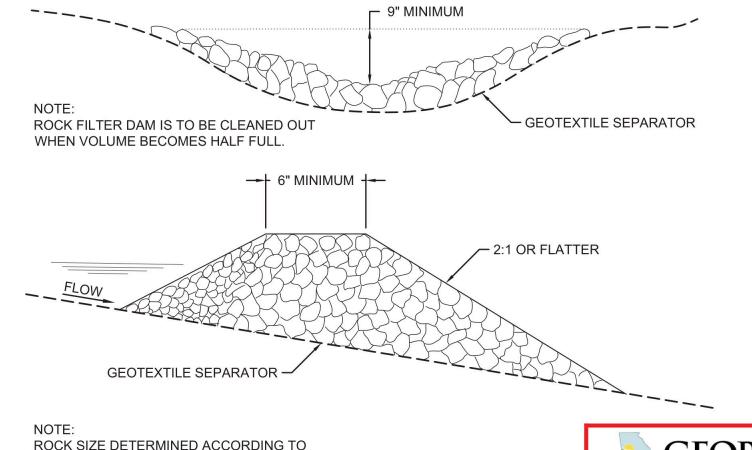
- 1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY 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 (WI), 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

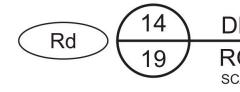
- DESIGN STORM FLOW RATE
- DESIGN STORM VELOCITY TAILWATER CONDITION/DESIGN STORM NORMAL
- APRON LENGTH APRON WIDTH UPSTREAM AT DEPTH OF
- **PROTECTION** APRON WIDTH DOWNSTREAM AT DEPTH OF
- PROTECTION
- d50 =AVERAGE STONE DIAMETER
- INSTALLATION DEPTH
- DEPTH OF PROTECTION

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





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







PROFESSIONAL

02.06.25 GA EPD CCR PERMIT DRAWINGS DRN APP REV DATE DESCRIPTION STORMWATER AND ESC DETAILS - I

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

consultants

FEBRUARY 2025

Power

255 ROBERTS BOULEVARD, NW, SUITE 200 PHONE: 678.202.950 KENNESAW, GEORGIA 30144 USA WWW.GEOSYNTEC.COM DWG. GW7306.13-C20 EDIT PROJ. NO. GW9155 SCALE AS SHOWN DRAWING 20 OF 22

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SPECIES	RATES	╙				PL	ANTI	NG D	ATES					
		J	F	М	Α	М	J	J	Α	S	0	N	D	
BARLEY ALONE	144 LBS/AC								••••	··· -		• • • • • •	•••	WINTER HARDY, USE ON
BARLEY IN MIXTURE	24 LBS/AC								••••			• • • • •	•••	PRODUCTIVE SOILS
LESPEDEZA, ANNUAL ALONE	40 LBS/AC		•••		• • • • •									MAY VOLUNTEER FOR SEVERAL
ESPEDEZA, ANNUAL IN MIXTURE	10 LBS/AC		••••		• • • • • •									YEARS. USE INOCULANT TYPE EL.
LOVEGRASS, WEEPING	4 LBS/AC			••••			• • • • •							MAY LAST FOR SEVERAL
ALONE LOVEGRASS, WEEPING IN MIXTURE	2 LBS/AC						• • • • • • • • • • • • • • • • • • • •							YEARS. MIX WITH SERICEA LESPEDEZA.
MILLET, BROWNTOP ALONE	40 LBS/AC													QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION
MILLET, BROWNTOP IN MIXTURE	10 LBS/AC							••••						IN MIXTURES IF SEEDED AT HIGH RATES.
MILLET, PEARL ALONE	50 LBS/AC				•••									QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
OATS ALONE	128 LBS/AC													USE ON PRODUCTIVE SOILS. NOT AS
OATS IN MIXTURE	32 LBS/AC													WINTER HARDY AS RYE OR BARLEY
RYE ALONE	168 LBS/AC								•••	· · · -				QUICK COVER. DROUGHT
RYE IN MIXTURE	28 LBS/AC								•••					TOLERANT AND WINTER HARDY.
RYEGRASS, ANNUAL ALONE	40 LBS/AC			•••••	•••									DENSE COVER. VERY COMPETITIVE AND NOT TO BE USED IN MIXTURES.
SUDANGRASS ALONE	60 LBS/AC								• • • • • •					GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
TRITICALE ALONE	144 LBS/AC									•••	• • •		•••	USE ON LOWER PART OF SOUTHER
TRITICALE IN MIXTURE	24 LBS/AC										• • •			COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
WHEAT ALONE	180 LBS/AC									• • • • •				WINTER HARDY.
WHEAT WITH OTHER PERENNIALS	30 LBS/AC													WINTER HARDT.

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

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

TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. WITH THE REMAINING REQUIRED APPLICATION RATE. 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.

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-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE

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

LIME AND FERTILIZER

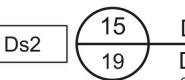
APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH.

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

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 SEEDED BY HAND. SEE THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, FOR MORE INFORMATION.

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.

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. TO A DEPTH THAT WILL ENSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

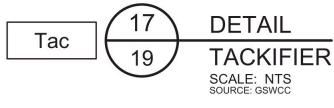


DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

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.

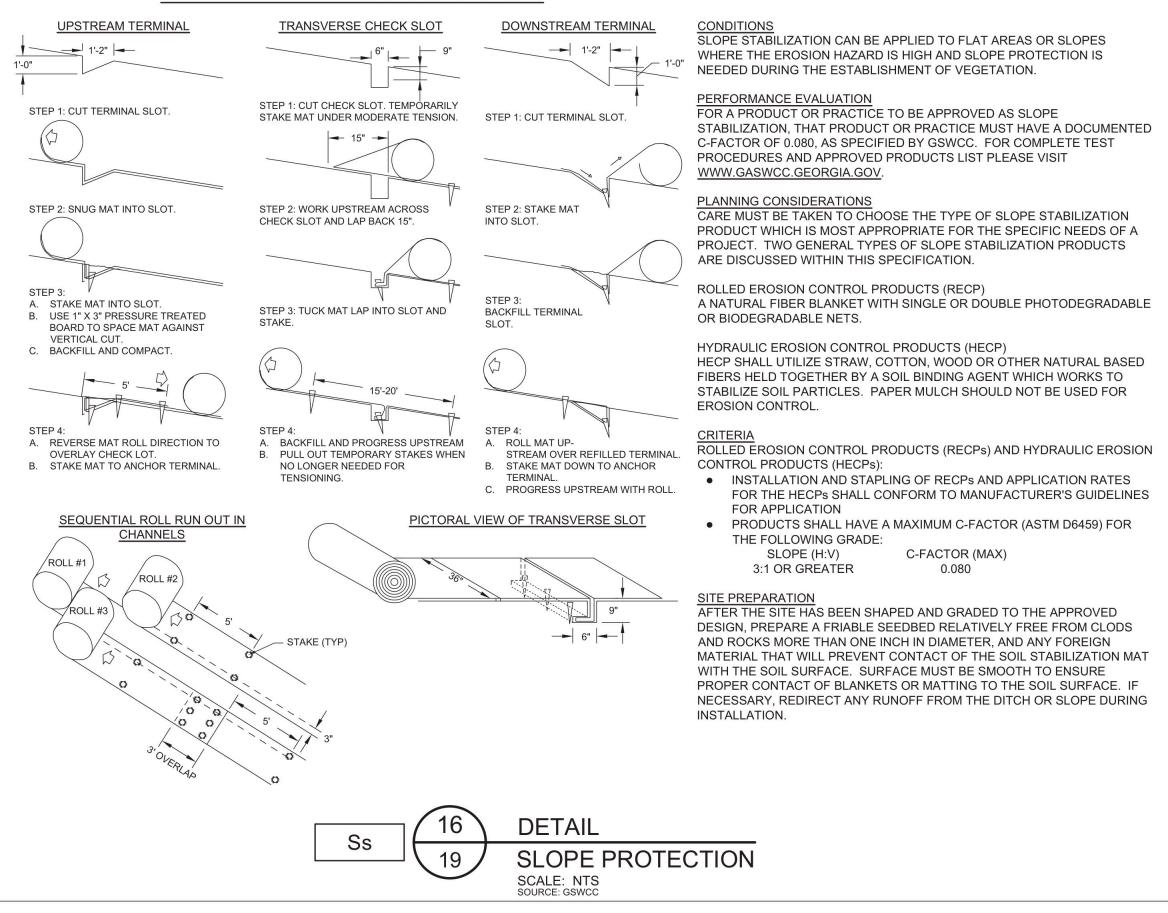
TO REDUCE SOIL EROSION FROM WIND AND WATER ON CONSTRUCTION SITES. OTHER BENEFITS INCLUDE SOIL INFILTRATION, SOIL FERTILITY, ENHANCED SEED GERMINATION, INCREASED SOIL COHESION, ENHANCED SOIL STABILIZATION, REDUCED STORMWATER RUNOFF TURBIDITY, AND REDUCTION IN LOSS OF TOPSOIL.

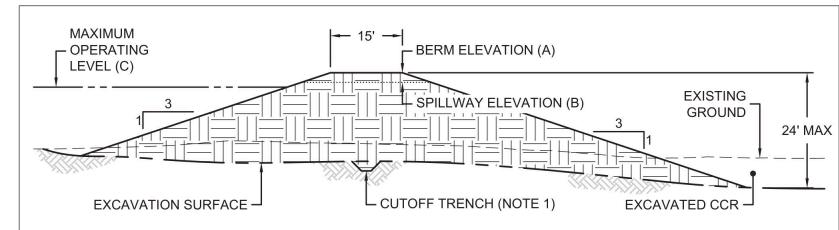
THIS PRACTICE IS INTENDED FOR DIRECT SOIL SURFACE APPLICATION TO SITES WHERE THE TIMELY ESTABLISHMENT OF VEGETATION MAY NOT BE FEASIBLE OR WHERE VEGETATION COVER IS ABSENT OR INADEQUATE. SUCH AREAS INCLUDE CONSTRUCTION AREAS, WHERE PLANT RESIDUES ARE INADEQUATE TO PROTECT THE SOIL SURFACE, AND WHERE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



TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS





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.

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



METHODS AND MATERIALS

A. TEMPORARY METHODS

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

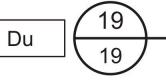
VEGETATIVE COVER. REFER TO Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

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 EROSIVE SOIL MATERIAL. SEE SPECIFICATION TP - TOPSOILING IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

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



DUST CONTROL ON DISTURBED AREAS

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, SYNTHETI SEED GEORGIA 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.



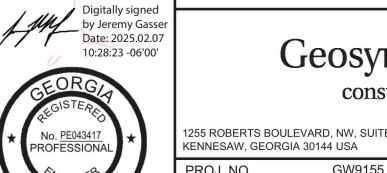


Keith Stevens Digitally signed by Date: 2025.02.27 10

PROFESSIONA

02.06.25 GA EPD CCR PERMIT DRAWINGS REV DATE STORMWATER AND ESC DETAILS - II

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



DRN APP

255 ROBERTS BOULEVARD, NW, SUITE 200 PHONE: 678.202.950 WWW.GEOSYNTEC.COM DWG. GW7306.13-C21 EDIT AS SHOWN

PROJ. NO. SCALE DRAWING 21 OF 22 FEBRUARY 2025

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

		PER 1,000 SQUARE FEET	PER ACRE
- 1	1	3.1	134
	2	6.2	268
	3	9.3	403
	4	12.4	537
	5	15.5	672
	6	18.6	806

THIS PRACTICE IS RECOMMENDED FOR SITES OF 2:1 OR FLATTER SLOPES WHERE

THE TEXTURE OF THE EXPOSED SUBSOIL OR PARENT MATERIAL IS NOT SUITABLE TO PRODUCE ADEQUATE VEGETATIVE GROWTH.

2. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS WITH CONTINUING SUPPLIES OF MOISTURE AND FOOD.

3. THE SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A pH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT EXCEED 500 PPM.

FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER THE QUANTITY AND QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL

IF pH VALUE IS LESS THAN 6.0, LIME SHALL BE APPLIED AND INCORPORATED WITH THE TOPSOIL TO ADJUST THE pH TO 6.5 OR HIGHER. TOPSOILS CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

SITE PREPARATION (WHERE TOPSOIL IS TO BE ADDED)

TOPSOILING - WHEN TOPSOILING, MAINTAIN NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, LEVEL SPREADERS, WATERWAYS, SEDIMENT BASINS, ETC.

GRADING - GRADES ON THE AREAS TO BE TOPSOILED WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE MAINTAINED.

LIMING - SOIL TESTS SHOULD BE USED TO DETERMINE THE pH OF THE SOIL. WHERE THE pH OF THE SUBSOIL IS 5.0 OR LESS OR COMPOSED OF HEAVY CLAYS, AGRICULTURAL LIMESTONE SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURE.

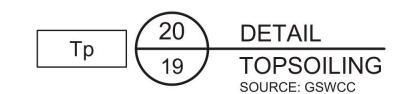
BONDING - USE ONE OF THE FOLLOWING METHODS TO INSURE BONDING OF TOPSOIL AND SUBSOIL

1. TILLING. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING

OR SCARIFYING TO A DEPTH OF AT LEAST 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL. 2. TRACKING. PASSING A BULLDOZER OVER THE ENTIRE SURFACE AREA OF THE SLOPE TO LEAVE HORIZONTAL DEPRESSIONS.

I. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE

2. A UNIFORM APPLICATION OF 6 INCHES (UNSETTLED) IS RECOMMENDED, BUT MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER OR LANDSCAPE ARCHITECT



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

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

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

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

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

SITE PREPARATION

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

MULCHING MATERIALS

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.

2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT REMAINING ON SITE CAN BE CHIPPED AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.

3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

APPLYING MULCH WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE, IN ADDITION TO THE NORMAL AMOUNT, SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.

ANCHORING MULCH

. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS, AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. REFER TO MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, SPECIFICATION TAC-TACKIFIERS. PLASTIC MESH OF NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED

ACCORDING TO MANUFACTURER'S SPECIFICATIONS. . NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.



WARM SEASON GRASS EQUIVALENT N-P-K ANALYSIS OR RATE TOP DRESSING

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

FERTILIZER REQUIREMENTS

PLANT, PLANTING RATE & PLANTING DATE FOR PERMANENT COVER

	FLAIN	11, FL	LAIN	HING		(IE 0	FL	.AIN I	IIVG	DAI		JI	FLIXI	///NINLI	111	COVER	5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING			
SPECIES	BROADCAST RATES		F	М	1		PLA M	NTINO I	G DA	ATES _	s		0	N D	-	PLANTING DATE REMARKS	PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE			
	TATES	۲		101	<u> </u>	A	IVI	0	0					N D	7		ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.			
LESPEDEZA SERICEA SCARIFIED	60 LBS/AC			• • • • •				•••								WIDELY ADAPTED. LOW MAINTENENCE. MIX WITH COMMON BERMUDA OR TALL FESCUE. INOCULATE SEED WITH EL INOCULANT.	 WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS, SLOPES, IN DITCHES, OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 			
LESPEDEZA SERICEA UNSCARIFIED	75 LBS/AC				•••	• • • • •	••••	• • • • •	• • • •	• • • • • •	•				-	MIX WITH TALL FESCUE.	HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.			
PENSACOLA BAHIA ALONE OR WITH TEMPORARY COVER	60 LBS/AC		••••					• • • • •			• • • • •		• • • • •	• • • • • •		LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA				
WILMINGTON BAHIA WITH OTHER PERENNIALS	30 LBS/AC							• • • • •		•••••	• • • • •					PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA.	APPLYING MULCH STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING			
TALL FESCUE ALONE	50 LBS/AC									•			-			USE ALONE ONLY ON BETTER SITES. MIX WITH PERENNIAL LESPEDEZA OR CROWN/VETCH, APRILY TOR DRESSING IN	EQUIPMENT, OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT. ANCHORING MULCH			
TALL FESCUE WITH OTHER PERENNIALS	30 LBS/AC															CROWNVETCH. APPLY TOP DRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.				
REED CANARY GRASS ALONE										•			-	•			ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:			
REED CANARY GRASS WITH OTHER PERENNIALS	30 LBS/AC									•				•		GROWS SIMILAR TO TALL FESCUE.	 HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 2 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. SYNTHETIC TACKIFIERS, FINDERS, OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S 			
COMMON BERMUDA UNHULLED SEED WITH TEMPORARY COVER	10 LBS/AC															PLANT WITH WINTER ANNUALS.				
COMMON BERMUDA UNHULLED SEED WITH OTHER PERENNIALS	6 LBS/AC														\exists	PLANT WITH TALL FESCUE.				
SOLID LINES INDICATE (DLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.								BUT	SPECIFICATIONS. ALL TACKIFIERS, FINDERS, OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO										

APPROPRIATE STANDARDS AND SPECIFICATIONS.

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS.

GRADING AND SHAPING GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT. WHEN CONVENTIONAL SEEDING UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND AFTER THE MIXTURE IS MADE. PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. THE VEGETATION. CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING NO-TILLING SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED (BUT IS STRONGLY RECOMMENDED FOR ANY SEEDING PROCESS, WHEN POSSIBLE). WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

TILLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.

- 2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
- ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- 1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
- 2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
- 3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

PLANTING

HYDRAULIC SEEDING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY

CONVENTIONAL SEEDING FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH. INDIVIDUAL PLANTS

SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS.

NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES

WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED, AND THE PLANT SHALL BE SET IN THE HOLE.

MULCHING

FOLLOWING AND APPLY AS INDICATED:

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED

SHOULD CONSIDER THE MULCH'S FUNCTIONAL LONGEVITY, VEGETATION ESTABLISHMENT

APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.

AREAS SHALL RECEIVE 75% TO 100% SOIL COVER. WHEN SELECTING A MULCAPINE SPROFESSIONALS

ENHANCEMENT, AND EROSION CONTROL EFFECTIVENESS. SELECT THE MULCHING MATERIAL FROM THE

1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2

2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT

3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 1/4:1 OR STEEPER.

SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE

4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS

- SHALL NOT BE PLOWED INTO THE SOIL SYNTHETIC TACKIFIERS, FINDERS, OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALL TACKIFIERS, FINDERS, OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW SHOULD BE VERIFIED NONTOXIC THROUGH EPA 2021.0 TESTING. REFER TO TACKIFIERS-TAC IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST
- EDITION. 3. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH.
- THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHELS PER ACRE. 4. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S

WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED,

LIME AND FERTILIZER APPLICATION

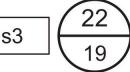
INNOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INNOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER. FINELY GROUND LIMESTONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION WITH THE TOP DRESSING. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS: 1. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED REPARATION.

- MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
- BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED, OR TRENCHED.
- 4. A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.

PLANT SELECTION

SPECIFICATIONS.

REFER TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, FOR APPROVED SPECIES. SPECIES NOT LISTED SHALL BE APPROVED BY THE STATE RESOURCE CONSERVATIONIST OF THE NATURAL RESOURCES CONSERVATION SERVICE BEFORE THEY ARE USED PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS; SITE AND SOIL CONDITIONS; PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING; METHOD OF PLANTING; AND THE NEEDS AND DESIRES OF THE LAND USER. SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA, TALL FESCUE, AND WEEPING LOVEGRASS. OTHER PERENNIALS, SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA, ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOME ESTABLISHED. FOR EXAMPLE, COMMON SEEDING COMBINATIONS ARE 1) WEEPING LOVEGRASS WITH SERICEA LESPEDEZA (SCARIFIED) AND 2) TALL FESCUE WITH SERICEA LESPEDEZA (UNSPECIFIED). PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENTS, AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.



DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) SOURCE: GSWCC





PROFESSIONA

HEARD AND CARROLL COUNTIES, GEORGIA

REV

DATE

02.06.25 GA EPD CCR PERMIT DRAWINGS

255 ROBERTS BOULEVARD, NW, SUITE 200 PHONE: 678.202.950

KENNESAW GEORGIA 30144 USA WWW.GEOSYNTEC.COM DWG. GW7306.13-C22 EDIT PROJ. NO. GW9155 SCALE AS SHOWN

DESCRIPTION

STORMWATER AND ESC DETAILS - III

PLANT WANSLEY ASH POND CLOSURE BY REMOVAL

DLJ

DRN APP

DRAWING 22 OF 22 FEBRUARY 2025