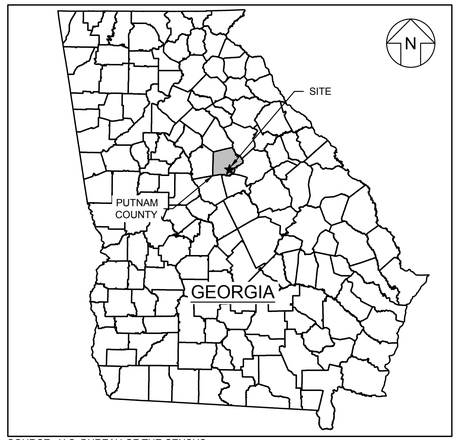
PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

PERMIT DRAWINGS
FEBRUARY 2025

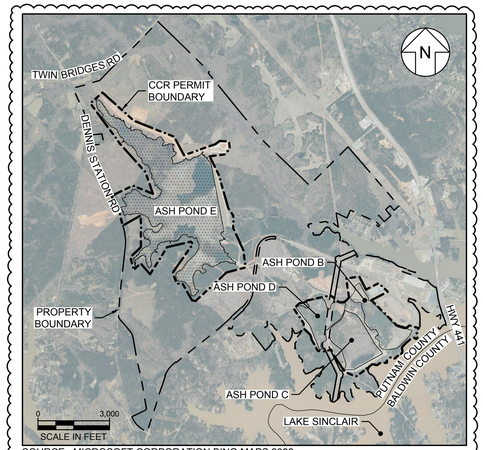


SOURCE: U.S. BUREAU OF THE CENSUS

GEORGIA STATE MAP

SCALE: NTS

LIST OF DRAWINGS	
DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	LEGENDS, ABBREVIATIONS, AND GENERAL NOTES
3	PROPERTY BOUNDARY SURVEY - NORTH
4	PROPERTY BOUNDARY SURVEY - SOUTH
5	EXISTING SITE CONDITIONS
6	CCR REMOVAL PLAN
7	RESTORATION GRADING PLAN
8	SITE CROSS SECTIONS I
9	SITE CROSS SECTIONS II
10	PHASING PLANS I
11	PHASING PLANS II
12	PHASING PLANS III
13	STORMWATER MANAGEMENT SYSTEM PLAN
14	STORMWATER MANAGEMENT SYSTEM DETAILS
15	EROSION AND SEDIMENT CONTROL DETAILS
16	ENVIRONMENTAL MANAGEMENT PLAN



SOURCE: MICROSOFT CORPORATION BING MAPS 2022

VICINITY MAP

SCALE: 1" = 3,000'

PREPARED FOR:

Georgia Power

MANAGER
GEORGIA POWER ENVIRONMENTAL AFFAIRS
241 RALPH MCGILL BOULEVARD NE
ATLANTA, GEORGIA 30308
404.506.6505

PREPARED BY:

Geosyntec consultants

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678.202.9500

GEORGIA REGISTERED ENGINEER No. 034486 MEHMET ISCIMEN

02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

COVER SHEET

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
PHONE: 678.202.9500
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PROJ. NO.	GW6364	DWG. 6364-001	EDIT 02.28.2025
SCALE	AS SHOWN	DRAWING 1 OF 16	
DATE	FEBRUARY 2025		

L:\GA\DOG\GEORGIA POWER\PLANT BRANCH GW6364.01\POND B-C-D-E\DRAWINGS\6364-001

LINETYPE LEGEND

- APPROXIMATE ASH POND BOUNDARY (NOTE 13)
- BATHYMETRIC SURFACE
- CCR PERMIT BOUNDARY (NOTE 2)
- DAM SURFACE (ESTIMATED)
- DRAINAGE CHANNEL
- EDGE OF ROAD / EXISTING BUILDINGS
- EXCAVATION SURFACE (NOTE 1)
- EXISTING FENCE / SECURITY FENCE
- EXISTING GROUND (NOTE 1)
- EXISTING WATER MANAGEMENT LINE AND FLOW DIRECTION (NOTE 3)
- FREE WATER SURFACE
- INTERIM DAM SURFACE
- NON-WOVEN GEOTEXTILE SEPARATOR
- OVERHEAD POWER TRANSMISSION / POWER DISTRIBUTION LINE
- PRE-CCR PLACEMENT SURFACE (NOTE 1)
- PROPERTY BOUNDARY (NOTE 2)
- PROPOSED WATER MANAGEMENT LINE AND FLOW DIRECTION
- RESTORATION SURFACE (NOTE 2)
- STORMWATER DIVERSION / CHANNEL
- STORMWATER PIPE AND FLOW DIRECTION
- STREAM
- TREELINE

SYMBOL LEGEND

- GROUNDWATER PIEZOMETER
- GUY WIRE
- HEADWALL
- HISTORICAL WELL / PIEZOMETER
- MONITORING NETWORK WELL
- POWER POLE
- PRINCIPAL SPILLWAY RISER
- RELIEF WELL
- 4% — SLOPE GRADE
- CREST / TOE — SLOPE INDICATOR
- 3 / 1 — SLOPE LABEL
- SUMP
- TEMPORARY PIEZOMETER
- TRAILER OR BUILDING
- VEGETATION
- WATER SURFACE

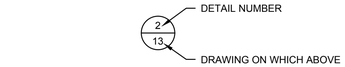
HATCH PATTERN LEGEND

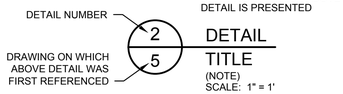
- ACCESS ROAD (EXISTING AND PROPOSED)
- CONCRETE
- EXISTING CCR
- PIPE EMBEDMENT FILL
- RIPRAP
- STREAM (NOTE 1)
- SUBGRADE
- TRENCH BACKFILL
- WETLANDS (NOTE 1)

CONTOUR LEGEND

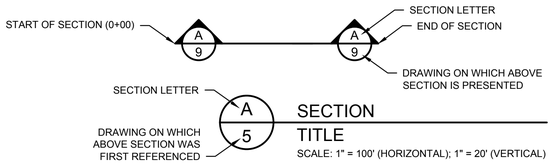
- 410 — BATHYMETRIC SURFACE ELEVATION (FEET) (NOTE 1)
- 410 — EXCAVATION SURFACE ELEVATION (FEET) (NOTE 1)
- 410 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- 410 — FINISHED GRADE SURFACE ELEVATION (FEET)
- 410 — FINGER DAM SURFACE ELEVATION (FEET)
- 410 — RESTORATION SURFACE ELEVATION (FEET)

DETAIL AND SECTION IDENTIFICATION LEGEND





EXAMPLE: DETAIL NUMBER 2 WHICH IS PRESENTED ON DRAWING NO. 13 WAS FIRST REFERENCED ON DRAWING NO. 5.



EXAMPLE: SECTION LETTER "A" WHICH IS PRESENTED ON DRAWING NO. 9 WAS FIRST REFERENCED ON DRAWING NO. 5.

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
APP	APPROVED BY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
℄	CENTER LINE
CCR	COAL COMBUSTION RESIDUALS
DIA	DIAMETER
DRN	DRAWN BY
DWG	DRAWING
E	EAST OR EASTING
EL	ELEVATION
FD	FINGER DRAIN
FT	FEET
GA EPD	GEORGIA ENVIRONMENTAL PROTECTION DIVISION
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GPC	GEORGIA POWER COMPANY
GSWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
HDPE	HIGH DENSITY POLYETHYLENE
H:V	HORIZONTAL TO VERTICAL LENGTH RATIO FOR A SLOPE
HWY	HIGHWAY
IN	INCH
INV	INVERT
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
MSL	MEAN SEA LEVEL
N	NORTH OR NORTHING
NAD	NORTH AMERICAN DATUM
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NO.	NUMBER

ABBREVIATIONS (CONT)

NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
N.S.A.	NATIONAL STONE ASSOCIATION
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
PROJ	PROJECT
RD	ROAD
REV	REVISION
S	SOUTH
SCS	SOUTHERN COMPANY SERVICES
SF	SILT FENCE
SWP	STORMWATER PIPE
TYP	TYPICAL
U.S.	UNITED STATES
USEPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
W	WEST
W.S.	WATER SURFACE
WWTS	WASTEWATER TREATMENT SYSTEM
%	PERCENT OR PERCENTILE

GENERAL NOTES

NOTES:

1. EXISTING GROUND CONTOURS SHOWN ON THIS DRAWING SET WERE OBTAINED FROM THE LIDAR SURVEY PERFORMED BY GEORGIA POWER COMPANY (GPC) ON AUGUST 2022 AND PROVIDED WITH THE ELECTRONIC FILE TITLED "CCR_AUG_2022_BRANCH_1FTCONTOURS". BATHYMETRY, ACCESS ROADS, AND TREE LINES SHOWN ON THIS DRAWING SET WERE OBTAINED FROM ELECTRONIC FILES PROVIDED BY GPC TITLED "BULK PROPERTY", DATED 16 JANUARY 2014, AND AS PART OF THE "PLANT BRANCH ASH POND B, C, & D REMEDIATION PLAN AND ASH POND E CLOSURE PLAN" DATED 4 JUNE 2017. INTERPOLATED TIE-INS WERE USED TO CONNECT BATHYMETRIC SURFACE TO THE EXISTING GROUND SURFACE AT/NEAR THE PONDED WATER LIMITS. EXISTING GROUND CONTOURS WERE AUGMENTED WITH UPDATED TOPOGRAPHY OBTAINED FROM A SURVEY ELECTRONIC FILE PROVIDED BY SOUTHERN COMPANY SERVICES (SCS) TITLED "BRANCH ASH MANAGEMENT AREA 7-14-2021", DATED 14 JULY 2021. CONTOURS WITHIN BEAVER POND WERE OBTAINED FROM A BATHYMETRIC MAP PREPARED BY SOUTHERN COMPANY CONSTRUCTION FIELD SERVICES AND DATED JUNE 2019. STREAMS, WETLANDS, AND 25-FT STATE WATERS BUFFERS WERE OBTAINED FROM THE "PLANT BRANCH ASH POND E CLOSURE ENVIRONMENTAL SURVEY", "PLANT BRANCH SITE ENVIRONMENTAL SURVEY", "PLANT BRANCH SITE ENVIRONMENTAL SURVEY PART TWO", "ECOLOGY SURVEY REPORT GEORGIA POWER COMPANY PLANT BRANCH - CENTRAL AREA PUTNAM COUNTY, GEORGIA", "PLANT BRANCH - ASH POND - NORTHERN DIVERSION POND STUDY AREA", "JURISDICTIONAL DETERMINATION REQUEST, PLANT BRANCH", AND "PLANT BRANCH SITE ENVIRONMENTAL SURVEY INITIAL FINDINGS MEMO" BY ECOLOGICAL SOLUTIONS, INC., DATED SEPTEMBER 2016, SEPTEMBER 2018, NOVEMBER 2018, MAY 2019, FEBRUARY 2020, JULY 2020, AND AUGUST 2021, RESPECTIVELY. THE STREAM AND WETLAND SURVEYS WERE LIMITED TO THE PROJECT AREA AND ITS IMMEDIATE VICINITY AND THIS DRAWING SET PRESENTS WETLANDS AND STREAMS LOCATED WITHIN THE SURVEY LIMITS ONLY. LETTERS FROM THE U.S. ARMY CORPS OF ENGINEERS, DATED 30 MAY 2019 AND 5 OCTOBER 2020, INDICATED THAT THE FIELD DELINEATION, PERFORMED ON 6 SEPTEMBER 2018 AND PRESENTED IN THE ECOLOGY SURVEY REPORT DATED MAY 2019, AND FIELD DELINEATION, PERFORMED ON MAY 2020 AND PRESENTED IN THE JURISDICTIONAL DETERMINATION REQUEST REPORT DATED JULY 2020 ARE VALID FOR A PERIOD OF FIVE YEARS, UNLESS NEW INFORMATION WARRANTS REVISION PRIOR TO THAT DATE.
2. CCR PERMIT AND PROPERTY BOUNDARIES WERE OBTAINED FROM THE "PROPERTY BOUNDARY SURVEY, PLANT HARLLEE BRANCH" PREPARED BY JORDAN ENGINEERING AND DATED 10 SEPTEMBER 2018 AND REVISED 13 SEPTEMBER 2023, SHOWN HEREIN ON DRAWINGS 3 AND 4.
3. WATER MANAGEMENT INFRASTRUCTURE LOCATIONS SHOWN WITHIN THE WATER MANAGEMENT INFRASTRUCTURE KEY MAP PRESENTED ON DRAWING 5 WERE OBTAINED FROM ELECTRONIC FILES PROVIDED BY SOUTHERN COMPANY SERVICES TITLED "BRANCH ASH POND CLOSURE SURVEY" ON 25 AUGUST 2017, "PLANT BRANCH - UNITS 1-4 WATER TREATMENT SYSTEM PIPING PLAN, ASH POND E DE-WATERING" DATED 8 MARCH 2017 AND "PROCESS FLOW DIAGRAM ASH POND TRANSFER ARRANGEMENT AND 1400 AND 2000 GPM WASTEWATER TREATMENT SYSTEMS" ON 16 JUNE 2020. LOCATIONS OF THE PROPOSED REVERSE OSMOSIS LINE AND RELOCATED ASH POND E RETURN LINE WERE OBTAINED FROM ELECTRONIC FILES PROVIDED BY SOUTHERN COMPANY SERVICES DATED 10 APRIL 2020. LOCATIONS OF THE EASTERN ASH POND B TO WWTS LINE AND PUMP PAD AND THE TIE-IN OF ASH POND E TO ASH POND B LINE WERE OBTAINED FROM ELECTRONIC FILES PROVIDED BY SOUTHERN COMPANY SERVICES TITLED "BRANCH LANDFILL TOPO" DATED 24 JUNE 2021. LOCATIONS ARE APPROXIMATE AND WILL BE FEILD VERIFIED AT THE TIME OF CONSTRUCTION.
4. GRID COORDINATE SYSTEM CORRESPONDS TO NORTH AMERICAN DATUM (NAD) 1983, GEORGIA WEST ZONE.
5. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
6. VERTICAL AND HORIZONTAL EXTENTS OF EXISTING CCR PRESENTED IN THIS DRAWING SET ARE APPROXIMATE. BOTH HORIZONTAL AND VERTICAL LIMITS OF CCR WILL BE FIELD VERIFIED.
7. TOP OF EXISTING CCR WAS TAKEN AS THE BATHYMETRIC SURFACE IN AREAS OF WATER COVERAGE, AND AS EXISTING GROUND IN DRY AREAS OF THE ASH POND.
8. ACCESS ROADS, ACCESS RAMPS, AND ASSOCIATED STORMWATER FEATURES WILL BE EVALUATED AS PART OF THE DETAILED DESIGN.
9. FUGITIVE DUST WILL BE MITIGATED AS SPECIFIED IN THE CLOSURE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
10. DEWATERING WILL BE PERFORMED AS NEEDED AND AS SPECIFIED IN THE CLOSURE PLAN ACCOMPANYING THIS PERMIT APPLICATION.

02/28/2025

GENERAL NOTES

NOTES (CONT):

11. CONTACT WATER FROM ASH POND E WILL EITHER BE DIVERTED TO WITHIN THE LIMIT OF ASH POND B AND THEN CONVEYED TO AN ON-SITE WASTEWATER TREATMENT SYSTEM (WWTS) OR DIRECTLY CONVEYED TO THE WWTS. A LINED ECONOTANK OR SIMILAR LINED TEMPORARY LIQUID STORAGE UNIT, CONNECTED BETWEEN ASH POND B AND THE WWTS, MAY BE UTILIZED TO PROVIDE ADDITIONAL STORAGE CAPACITY TO ASH POND B BEFORE CONVEYING THE CONTACT WATER TO THE WWTS. TREATED WATER WILL BE DISCHARGED TO LAKE SINCLAIR VIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OUTFALL NUMBER 03 AND PROCESS RETURN FLOWS WILL BE ROUTED BACK TO ASH POND E. DIVERTED NON-CONTACT STORMWATER WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT.
12. ADDITIONAL STORMWATER FEATURES (E.G., BERMS, CHANNELS, BENCHES, AND DOWNCHUTES) AND EROSION AND SEDIMENT CONTROLS MAY BE IMPLEMENTED FOR THE CONSTRUCTION AND POST-CONSTRUCTION SITE CONDITIONS.
13. ASH POND BOUNDARY FOR ASH POND E WAS DEVELOPED BASED ON FIELD INVESTIGATIONS, HISTORICAL DRAWINGS, AND AERIAL PHOTOS, AND IS APPROXIMATE. THE ASH POND BOUNDARY LINE REPRESENTS THE ESTIMATED LIMIT OF IMPOUNDED CCR.
14. DRAINAGE CHANNELS LAYOUT SHOWN ON THIS DRAWING SET REPRESENT THE CENTER OF THE GEOMETRIC DESIGN AND WAS OBTAINED FROM "PLANT BRANCH ASH POND E DEWATERING CHANNELS GEOMETRIC DESIGN" PREPARED BY GEOSYNTEC CONSULTANTS, AND DATED APRIL 2022. DRAINAGE CHANNELS WERE IN CONSTRUCTION WHEN THIS DRAWING SET WAS PREPARED, AND THEREFORE THEIR LAYOUT IS APPROXIMATE.

GENERAL EROSION AND SEDIMENT CONTROL (E&SC) NOTES

NOTES:

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

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

LEGENDS, ABBREVIATIONS, AND GENERAL NOTES

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ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

Geosyntec consultants
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GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
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PROJ. NO.	GW6364	DWG. 6364-002	EDIT 02.28.2025
SCALE	AS SHOWN		
DATE	FEBRUARY 2025	DRAWING 2 OF 16	

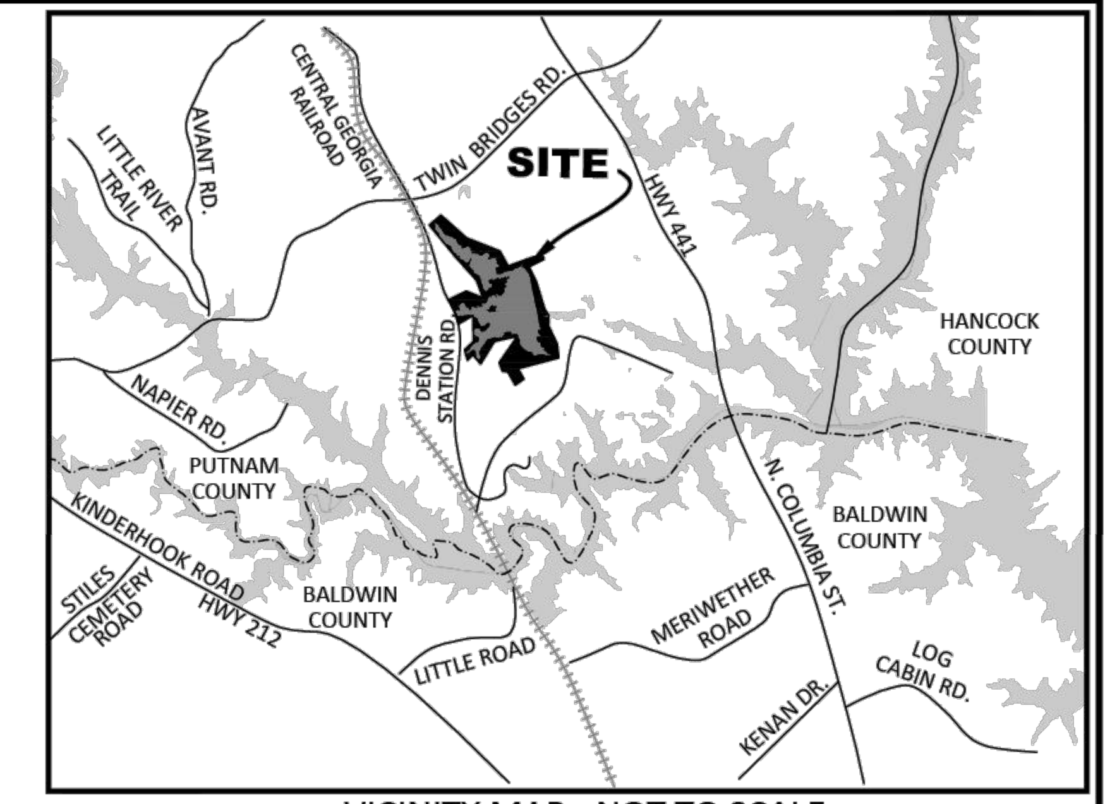
L:\AD\DG\GEORGIA POWER\PLANT BRANCH (GW)\6364.01\POND B-C-D-E\DRAWINGS\6364-002

FOR CLERK'S OFFICE USE

SURVEYOR'S CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.

Hollie S. Hall, GA RLS 3368



VICINITY MAP - NOT TO SCALE

CONTROL	STATE PLANE
CP 1 EL.: 436.38	N 1169521.62 E 2553558.67
CP 2 EL.: 453.95	N 1169747.21 E 2548645.78

COORDINATE SYSTEM INFORMATION TABLE

COORDINATE SYSTEM BASED ON STATE PLANE WEST

AVERAGE ELEVATION: 445.16'
STATE PLANE AVE. SCALE FACTOR: 1.00594949
COMPUTED ELEVATION FACTOR: 0.99997871
CONVERGENCE 03°36'30"
GA WEST NAD83(2011) ZONE, NAVD (88)
CONTROL INFORMATION ESTABLISHED WITH JAVAD TRIUMPH-LS DUAL-FREQUENCY GPS RECEIVER REFERENCING eGPS VIRTUAL BASE STATION DATA.

B/3 — DENOTES PAINTED TREES OR FENCE NEAR PROPERTY LINE. LETTER IS CODE BELOW, NUMBER IS FEET FROM LINE, AND ARROW IS DIRECTION FROM LINE THAT EVIDENCE WAS FOUND.

TP: STEEL TEE POST	W: WHITE PAINT
B: BLUE PAINT	CL: CHAIN LINK
Y: YELLOW PAINT	BW: BARBED WIRE
R: RED PAINT	HW: HOG WIRE

LINE LEGEND

- PROPOSED CCR PERMIT BOUNDARY
- EXTERIOR GEORGIA POWER PROPERTY
- OVERHEAD POWER
- EASEMENT
- ADJOINING PROPERTY LINE
- ASPHALT PAVEMENT
- EDGE OF DIRT/GRAVEL
- STRUCTURE (AERIAL LOC)
- WIRE FENCE
- CHAIN LINK FENCE
- DRAINAGE PIPE
- 340' CONTOUR-FULL POOL ELEVATION
- WATER

PLAT ABBREVIATIONS

IPF	Iron Pin Found
IPS	Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
CTP	Crimp-Top Pipe
OTP	Open Top Pipe
CM	Concrete Monument
AI	Angle Iron
LL	Land Lot
D.B.	Deed Book
P.B.	Plat Book
P.C.	Plat Cabinet
SL	Slide
P.O.B.	Point of Beginning
P.O.C.	Point of Commencement
FEMA	Federal Emergency Management Agency
OHP	Overhead Power
N.T.R.	Not to Scale
GPC	Georgia Power Company
NOF	Now or Formerly

MONUMENTATION LEGEND

- Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
- Iron Pin Found
- Monument Set
- Monument Found
- Computed Point
- CP1 Control or Traverse Point
- TR1 Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

UTILITY LEGEND

- Well
- Power Pole
- Transmission Tower
- Guy Wire

SURVEY CLOSURE STATEMENT

FIELD DATA WAS COLLECTED USING A LEICA TS12 ROBOTIC TOTAL STATION AND A JAVAD TRIUMPH-LS DUAL FREQUENCY GPS RECEIVER REFERENCING THE eGPS STATEWIDE NETWORK AND HAVING A RELATIVE POSITIONAL ACCURACY OF 0.04 FEET.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN 1 FOOT IN 5,764,262 FEET.

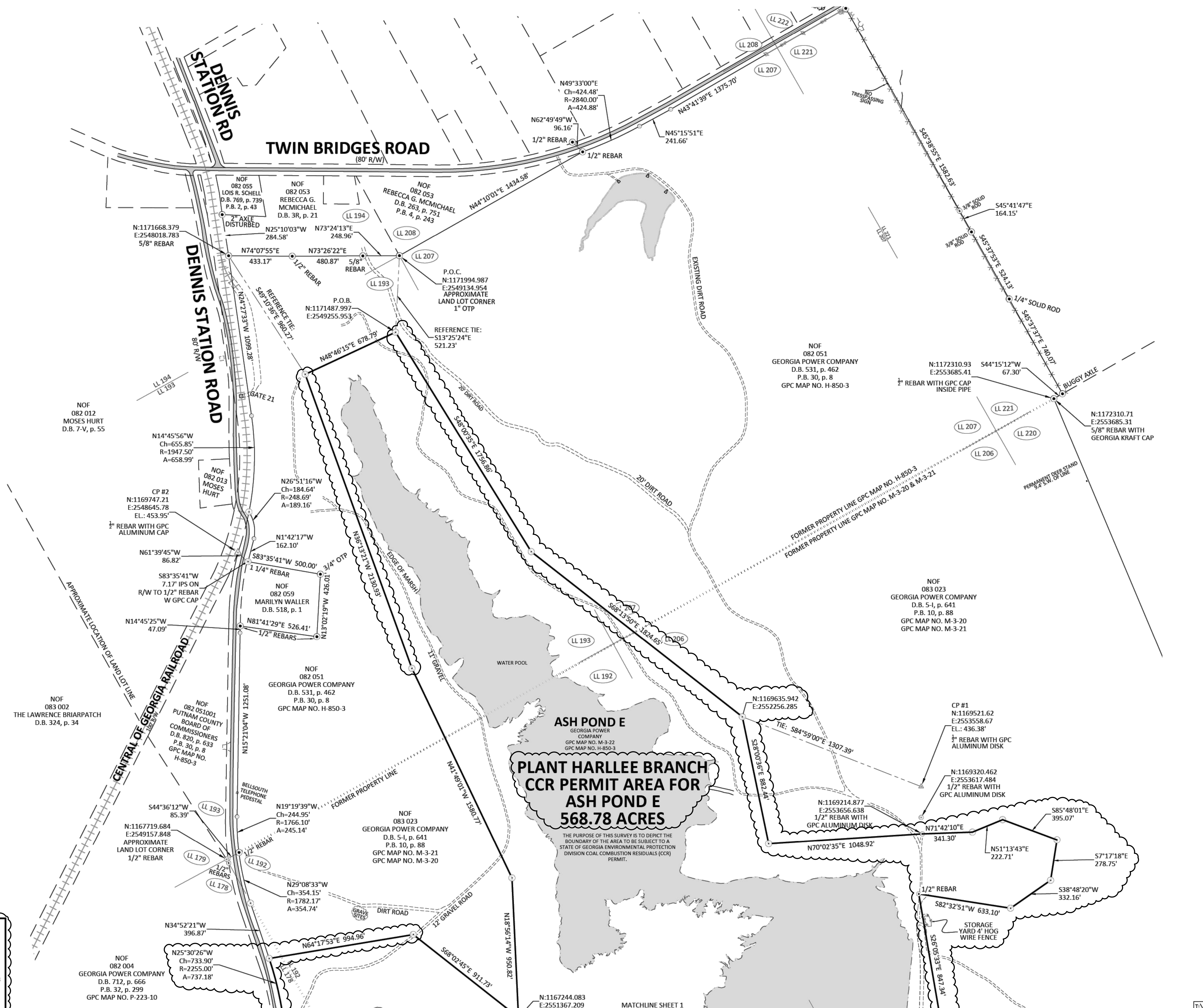
PARENT PARCEL FIELD WORK WAS COMPLETED IN JANUARY, 2018. NEW ASH POND E PARCEL TO BE SET FALL OF 2018.

LEGAL DESCRIPTION – PROPOSED CCR PERMIT BOUNDARY FOR ASH POND E

All that parcel lying and being in Land Lots 177, 178, 191-193 and 205-207, District 2, Georgia Militia District 312, Putnam County, Georgia, containing 568.78 acres, as shown on a plat prepared by Hollie S. Hall, Georgia RLS 3368, on August 30, 2018, last revised September 13, 2023, and being more particularly described as follows:

From the POINT OF COMMENCEMENT, which is a 1" open top pipe at the land lot corner common to land lots 193, 194, 207, and 208, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1171994.987 and east 2549134.954, travel S13°25'24"E a distance of 521.23 feet to a ½" rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1171487.997 and east 2549255.953, which is the POINT OF BEGINNING.

From the POINT OF BEGINNING, travel S48°00'35"E a distance of 1756.86 feet to a ½" rebar set; thence S68°13'50"E a distance of 1824.65 feet to a ½" rebar set, said point having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1169635.942 and east 2552256.285; thence S28°00'36"E a distance of 882.44 feet to a ½" rebar set; thence N70°02'35"E a distance of 1048.92 feet to 1/2" rebar with a Georgia Power Company aluminum disk; thence N71°42'10"E a distance of 341.30 feet to a ½" rebar set; thence N51°13'43"E a distance of 222.71 feet to a ½" rebar set; thence N85°48'01"E a distance of 395.07 feet to a ½" rebar set; thence S7°17'18"E a distance of 278.75 feet to a ½" rebar set; thence S38°48'20"W a distance of 332.16 feet to a ½" rebar set; thence S82°32'51"W a distance of 633.10 feet to a ½" rebar set on the easterly edge of an existing gravel access road; thence S16°04'35"E a distance of 1466.21 feet to a ½" rebar set; thence S32°56'05"E a distance of 390.14 feet to a ½" rebar set; thence S0°45'36"W a distance of 512.57 feet to a ½" rebar set; thence S24°42'41"E a distance of 1040.01 feet to a ½" rebar set; thence S6°30'05"E a distance of 707.77 feet to a ½" rebar set; thence S75°10'17"W a distance of 823.39 feet to a ½" rebar set; thence S47°17'15"W a distance of 1768.65 feet to a ½" rebar set; thence N79°06'18"W a distance of 147.13 feet to a ½" rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of North 1162774.658 and east 2553006.716; thence N29°18'01"W a distance of 782.92 feet to a ½" rebar set; thence N83°39'44"W a distance of 271.53 feet to a ½" rebar set; thence N19°13'22"W a distance of 475.61 feet to a ½" rebar set; thence N34°52'19"E a distance of 1462.77 feet to a ½" rebar set; thence N35°00'44"W a distance of 126.24 feet to a ½" rebar set; thence S76°57'21"W a distance of 1027.57 feet to a ½" rebar set; thence S32°05'01"W a distance of 1338.43 feet to a ½" rebar set; thence N41°21'53"W a distance of 608.62 feet to a ½" rebar set; thence S44°40'57"W a distance of 400.87 feet to a ½" rebar set; thence N14°32'42"W a distance of 561.21 feet to a point; thence N46°35'39"E a distance of 605.10 feet to ½" rebar set; thence N0°09'26"W a distance of 1333.31 feet to ½" rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of North 1166338.119 and east 2550859.952; thence S60°25'55"W a distance of 863.71 feet to a ½" rebar set on the easterly right-of-way of Dennis Station Road; thence along said easterly right-of-way of Dennis Station Road travel N16°08'28"W a distance of 602.92 feet to a point; thence along said easterly right-of-way of Dennis Station Road and along a northwestward-curving arc having a chord N25°30'26"W a chord length of 733.90 feet, a radius of 2255.00 feet, and an arc length of 733.90 feet; thence N64°17'53"E a distance of 994.96 feet to ½" rebar set north side of an existing 12' gravel access road; thence S68°02'45"E a distance of 911.73 feet to a ½" rebar set, having Georgia State Plane, West Zone, NAD83(2011) coordinates in US survey feet of north 1167244.083 and east 2551367.209; thence N18°56'14"W a distance of 950.82 feet to a ½" rebar set; thence N41°49'01"W a distance of 1580.77 feet to a ½" rebar set; thence N36°13'21"W a distance of 2130.93 feet to a ½" rebar set; thence N48°46'15"E a distance of 678.79 feet the POINT OF BEGINNING.



SUBJECT PROPERTY INFORMATION

TAX PARCEL:	082 051
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 531, p. 462
PLAT REFERENCE:	P.B. 30, p. 8, GPC MAP NO. H-850-3
TAX PARCEL:	083 023
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 5-I, p. 641
PLAT REFERENCE:	P.B. 10, p. 88, GPC MAP NO.M-3-20, GPC MAP NO. M-3-21
TAX PARCEL:	083 021
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 5M, p. 733
PLAT REFERENCE:	P.B. 26, p. 7, GPC MAP NO. M-3-20, GPC MAP NO. M-3-21
TAX PARCEL:	086 002
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 3K, p. 510, D.B. 3B, p. 597, D.B. 3E, p. 75, 83, 96
PLAT REFERENCE:	GPC MAP NO. M-3-8, GPC MAP NO M-153, P.B. 2, p. 123
TAX PARCEL:	086 001
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 554, p. 553, D.B. 623, p. 747
PLAT REFERENCE:	P.B. 26, p. 143, P.B. 28, p. 69-70, P.B. 30, p. 111, P.B. 31, p. 278
TAX PARCEL:	083 020001
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 3B, p. 550, D.B. 491, p. 722
PLAT REFERENCE:	P.B. 29, p. 109, GPC MAP NO. H-921-2

SCALE: 1" = 400' (0 — 400 — 1200)

T:\Working2\Plants\Branch\2018070047 Plant Branch–Ash Pond E – CCR Permit Boundary Survey.dwg

JORDAN ENGINEERING
144 N. WARREN ST. MONTICELLO, GA 31064
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REVISION BLOCK
7/3/2020 REVISION TO ASH POND E BOUNDARY
9/13/2023 REVISION TO ASH POND E BOUNDARY

APPROVALS

Georgia Power Company

PROPERTY BOUNDARY SURVEY
PLANT HARLLEE BRANCH
ASH POND E – PROPOSED CCR PERMIT BOUNDARY
LAND LOTS 177,178, 191–193 & 205–207
2nd DISTRICT, 312 G.M.D.
PUTNAM COUNTY, GEORGIA

DR. HSH	TR.	Checked ROJ/HSH
SCALE 1" = 400'		DATE 09.10.2018
DRAWING NUMBER		SHEET NUMBER
P466–8		SHEET 1 OF 2

L:\CADD\G\GEORGIA POWER\PLANT BRANCH GW6364.01\POND B-C-D-E\DRAWINGS\6364-003

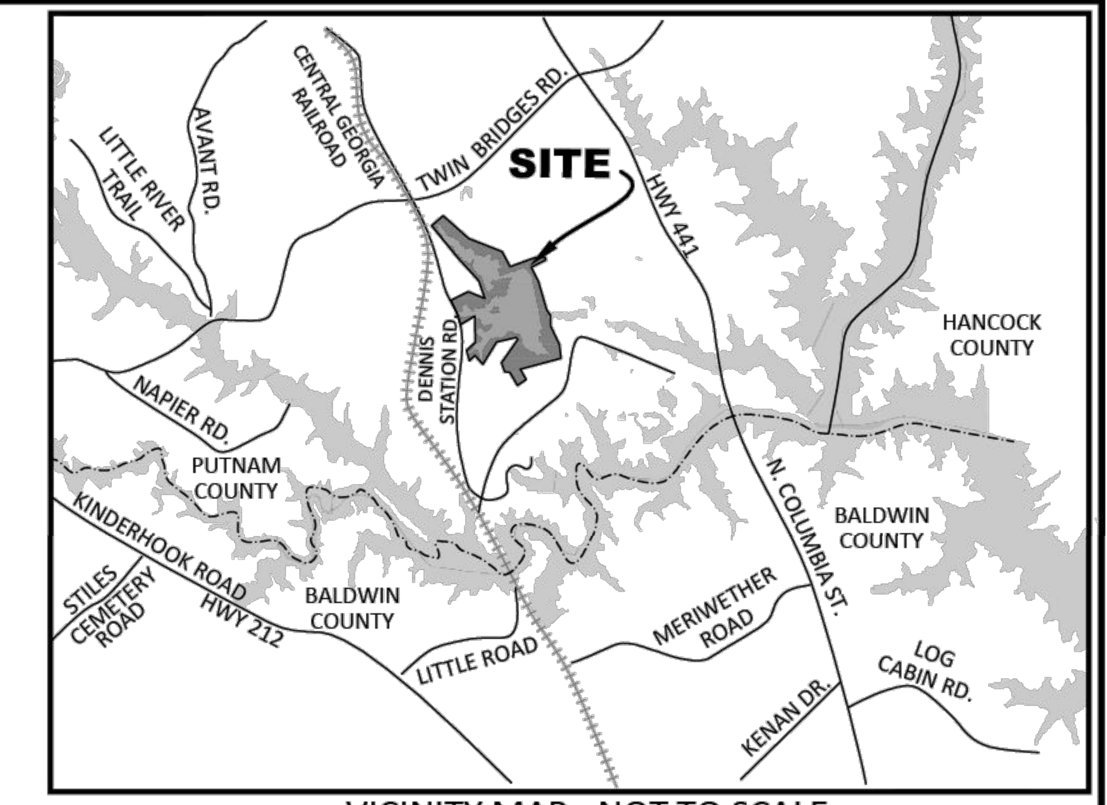
S:\SURVEY\GEOSYNTEC–PLANT BRANCH REVISIONS 2023\2023 – GPC–PLANT BRANCH ASH POND E BOUNDARY R4.DWG September 13, 2023

FOR CLERK'S OFFICE USE

SURVEYOR'S CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.

Hollie S. Hall, GA RLS 3368



VICINITY MAP - NOT TO SCALE

CONTROL	STATE PLANE
CP 1 EL.: 436.38	N 1169521.62 E 2553558.67
CP 2 EL.: 453.95	N 1169747.21 E 2548645.78

COORDINATE SYSTEM INFORMATION TABLE

COORDINATE SYSTEM BASED ON STATE PLANE WEST

AVERAGE ELEVATION: 445.16'
STATE PLANE AVE. SCALE FACTOR: 1.00594949
COMPUTED ELEVATION FACTOR: 0.99997871
CONVERGENCE 03°36'30"
GA WEST NAD83(2011) ZONE, NAVD (88)
CONTROL INFORMATION ESTABLISHED WITH JAVAD TRIUMPH–LS DUAL–FREQUENCY GPS RECEIVER REFERENCING eGPS VIRTUAL BASE STATION DATA.

B/3 DENOTES PAINTED TREES OR FENCE NEAR PROPERTY LINE. LETTER IS CODE BELOW, NUMBER IS FEET FROM LINE, AND ARROW IS DIRECTION FROM LINE THAT EVIDENCE WAS FOUND.

TP: STEEL TEE POST — W: WHITE PAINT
B: BLUE PAINT — CL: CHAIN LINK
Y: YELLOW PAINT — BW: BARBED WIRE
R: RED PAINT — HW: HOG WIRE

LINE LEGEND

- PROPOSED CCR PERMIT BOUNDARY
- EXTERIOR GEORGIA POWER PROPERTY
- OVERHEAD POWER (OHP)
- EASEMENT
- ADJOINING PROPERTY LINE
- ASPHALT PAVEMENT
- EDGE OF DIRT/GRAVEL
- STRUCTURE (AERIAL LOC)
- WIRE FENCE
- CHAIN LINK FENCE
- DRAINAGE PIPE
- 340' CONTOUR-FULL POOL ELEVATION (340)
- WATER

PLAT ABBREVIATIONS

IPF	Iron Pin Found
IPS	Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
CTP	Crimp–Top Pipe
OTP	Open Top Pipe
CM	Concrete Monument
AI	Angle Iron
LL	Land Lot
D.B.	Deed Book
P.B.	Plat Book
P.C.	Plat Cabinet
SL	Slide
P.O.B.	Point of Beginning
P.O.R.	Point of Reference
FEMA	Federal Emergency Management Agency
OHP	Overhead Power
N.T.S.	Not to Scale
GPC	Georgia Power Company
NOF	Now or Formerly

MONUMENTATION LEGEND

- Iron Pin Set w/plastic cap stamped "Jordan Engineering RLS 2902"
- Iron Pin Found
- Monument Set
- Monument Found
- Computed Point
- CP1 Control or Traverse Point
- TR1 Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

UTILITY LEGEND

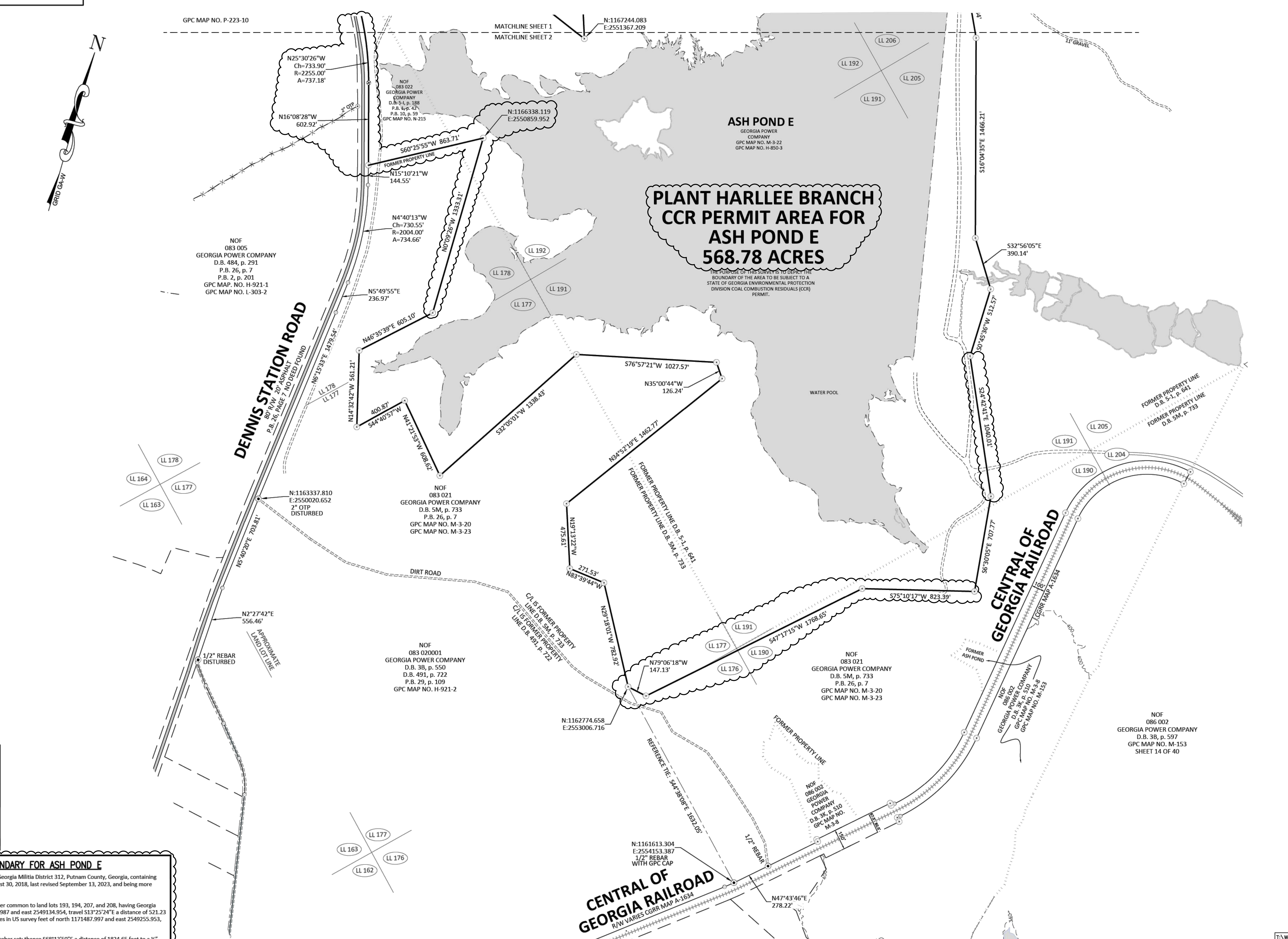
- Well
- Power Pole
- Transmission Tower
- Guy Wire

SURVEY CLOSURE STATEMENT

FIELD DATA WAS COLLECTED USING A LEICA TS12 ROBOTIC TOTAL STATION AND A JAVAD TRIUMPH–LS DUAL FREQUENCY GPS RECEIVER REFERENCING THE eGPS STATEWIDE NETWORK AND HAVING A RELATIVE POSITIONAL ACCURACY OF 0.04 FEET.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN 1 FOOT IN 5,764,262 FEET.

PARENT PARCEL FIELD WORK WAS COMPLETED IN JANUARY, 2018. NEW ASH POND E PARCEL TO BE SET FALL OF 2018.



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PLAT REFERENCE:	GPC MAP NO. M-3-8, GPC MAP NO M-153, P.B. 2, p. 123
TAX PARCEL:	086 001
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PLAT REFERENCE:	P.B. 26, p. 143, P.B. 28, p. 69-70, P.B. 30, p. 111, P.B. 31, p. 278
TAX PARCEL:	083 020001
CURRENT OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	D.B. 3B, p. 550, D.B. 491, p. 722
PLAT REFERENCE:	P.B. 29, p. 109, GPC MAP NO. H-921-2

LEGAL DESCRIPTION – PROPOSED CCR PERMIT BOUNDARY FOR ASH POND E

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L:\CADD\G\GEORGIA POWER\PLANT BRANCH GW6364.01\POND B-C-D-E\DRAWINGS\6364-069

S:\SURVEY\GEOSYNTEC–PLANT BRANCH REVISIONS 2023\2023 – GPC–PLANT BRANCH ASH POND E BOUNDARY R4.DWG September 13, 2023

0 400 1200
SCALE: 1" = 400'

T:\Working2\Plants\Branch\2018070047 Plant Branch–Ash Pond E – CCR Permit Boundary Survey.dwg

GEORGIA REGISTERED LAND SURVEYOR No. 3368 HOLLIE S. HALL

Corporate License No. LSF000768

JORDAN ENGINEERING
144 N. WARREN ST. MONTICELLO, GA 31064
(706) 468-8999 www.jordan-eng.com
Engineering ◦ Surveying ◦ Soils Classification

Georgia Power Company

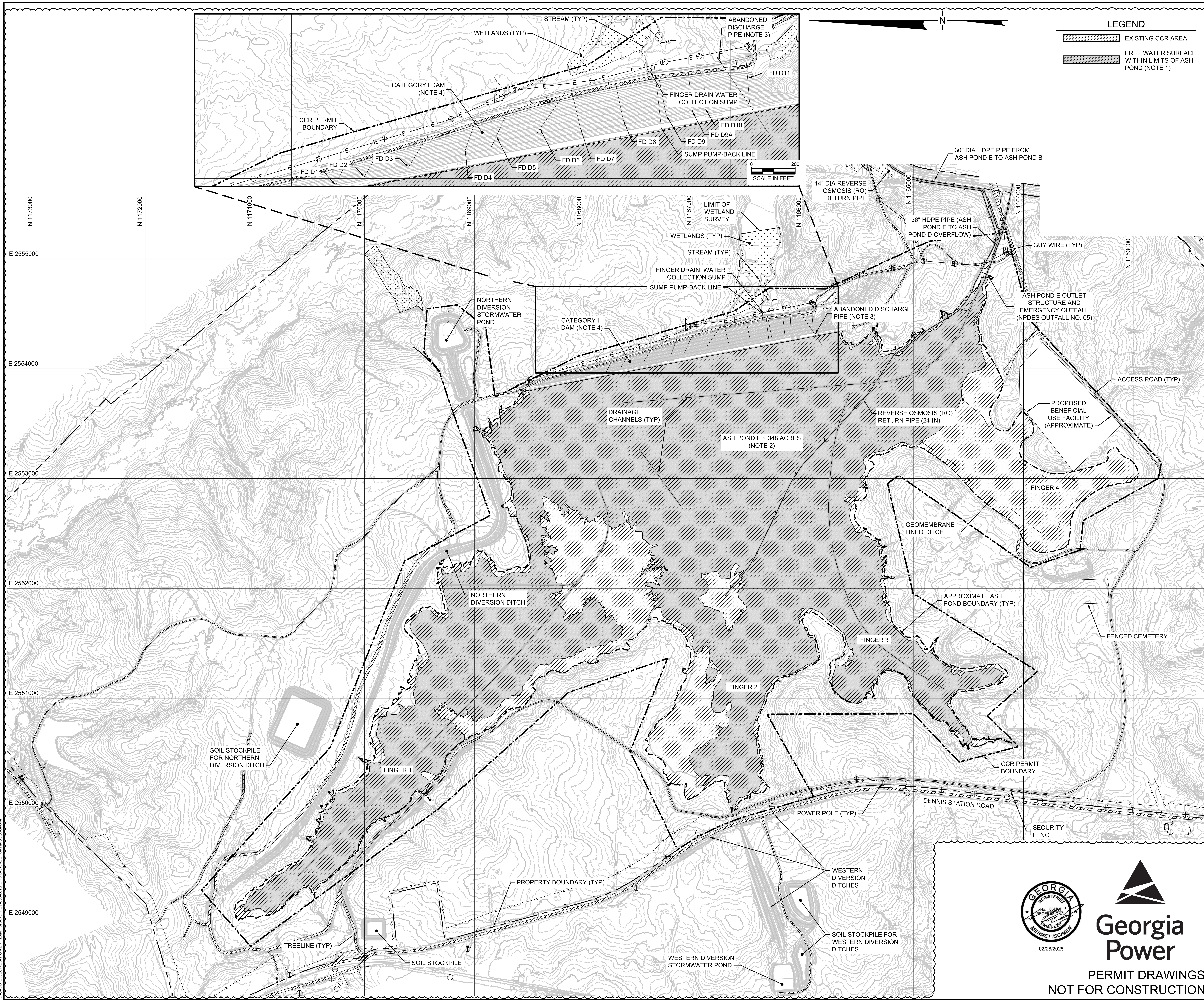
PROPERTY BOUNDARY SURVEY
PLANT HARLLEE BRANCH
ASH POND E – PROPOSED CCR PERMIT BOUNDARY
LAND LOTS 177,178, 191–193 & 205–207
2nd DISTRICT, 312 G.M.D.
PUTNAM COUNTY, GEORGIA

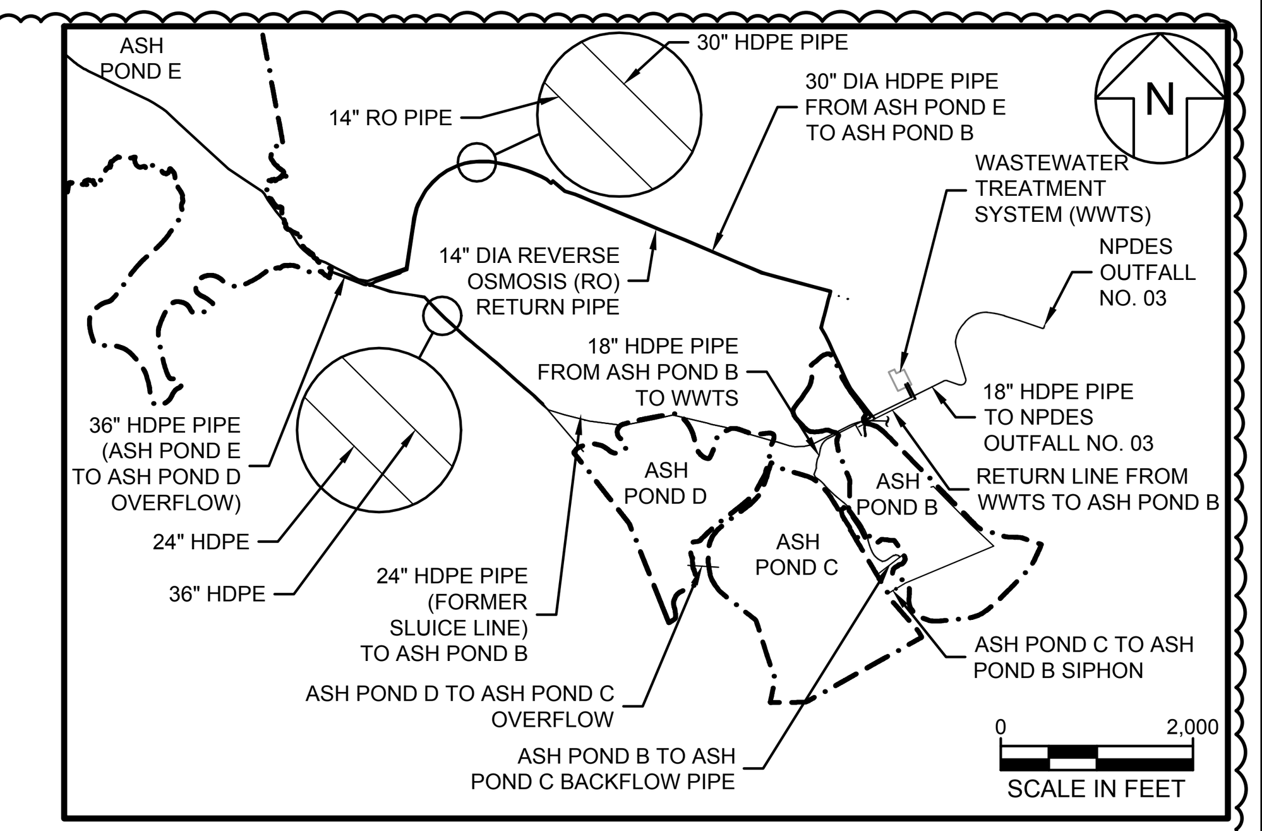
REVISION BLOCK
7/3/2020 REVISION TO ASH POND E BOUNDARY
9/13/2023 REVISION TO ASH POND E BOUNDARY

APPROVALS

DR.	TR.	Checked
HSH		ROJ/HSH

SCALE	DATE
1" = 400'	09.10.2018
DRAWING NUMBER	SHEET NUMBER
P466–8	SHEET 2 OF 2





EXISTING WATER MANAGEMENT INFRASTRUCTURE KEY MAP

SCALE: 1" = 2,000'

NOTES:

1. FOR GENERAL NOTES, SEE DRAWING 2. WATER SURFACE ELEVATIONS MAY FLUCTUATE WITH SEASONAL VARIATIONS.
2. ACREAGE PRESENTED WITHIN THE ASH POND REPRESENTS THE AREA WITHIN THE APPROXIMATE ASH POND BOUNDARY.
3. LOCATIONS AND ELEVATIONS OF FINGER DRAINS AND OTHER EXISTING FEATURES (E.G., CULVERTS, SUMP PUMP-BACK LINES, ABANDONED DISCHARGE LINES, ELECTRICAL CONDUIT, COMMUNICATION LINE, BURIED DRAINS, ETC.) WERE APPROXIMATED FROM THE "PLANT BRANCH CCR SURFACE IMPOUNDMENT PIPE AND PENETRATION REPORT" PREPARED BY SOUTHERN COMPANY SERVICES (SCS), DATED 23 JANUARY 2018, GEOPHYSICAL EXPLORATION PERFORMED BY SOUTHERN COMPANY SERVICES DATED JUNE 2019, AND GEOSYNTEC'S SITE WALK NOTES ON 22 NOVEMBER 2019. ELECTRONIC FILES PROVIDED BY SCS TITLED "SEPT 2020 AERIAL IMAGERY" AND "BRANCH LAND FILL TOPO" DATED 24 JUNE 2021, AND HISTORICAL DOCUMENTS PROVIDED BY SCS.
4. THE DIKE OF ASH POND E IS A CATEGORY I DAM REGULATED BY GA EPD SAFE DAMS PROGRAM (SDP); STATE IDENTIFICATION NUMBER 117-022-02355.
5. REFER TO DRAWING 16 FOR THE LOCATIONS OF THE EXISTING WELLS AND PIEZOMETERS.

0 400 800
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

EXISTING SITE CONDITIONS

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

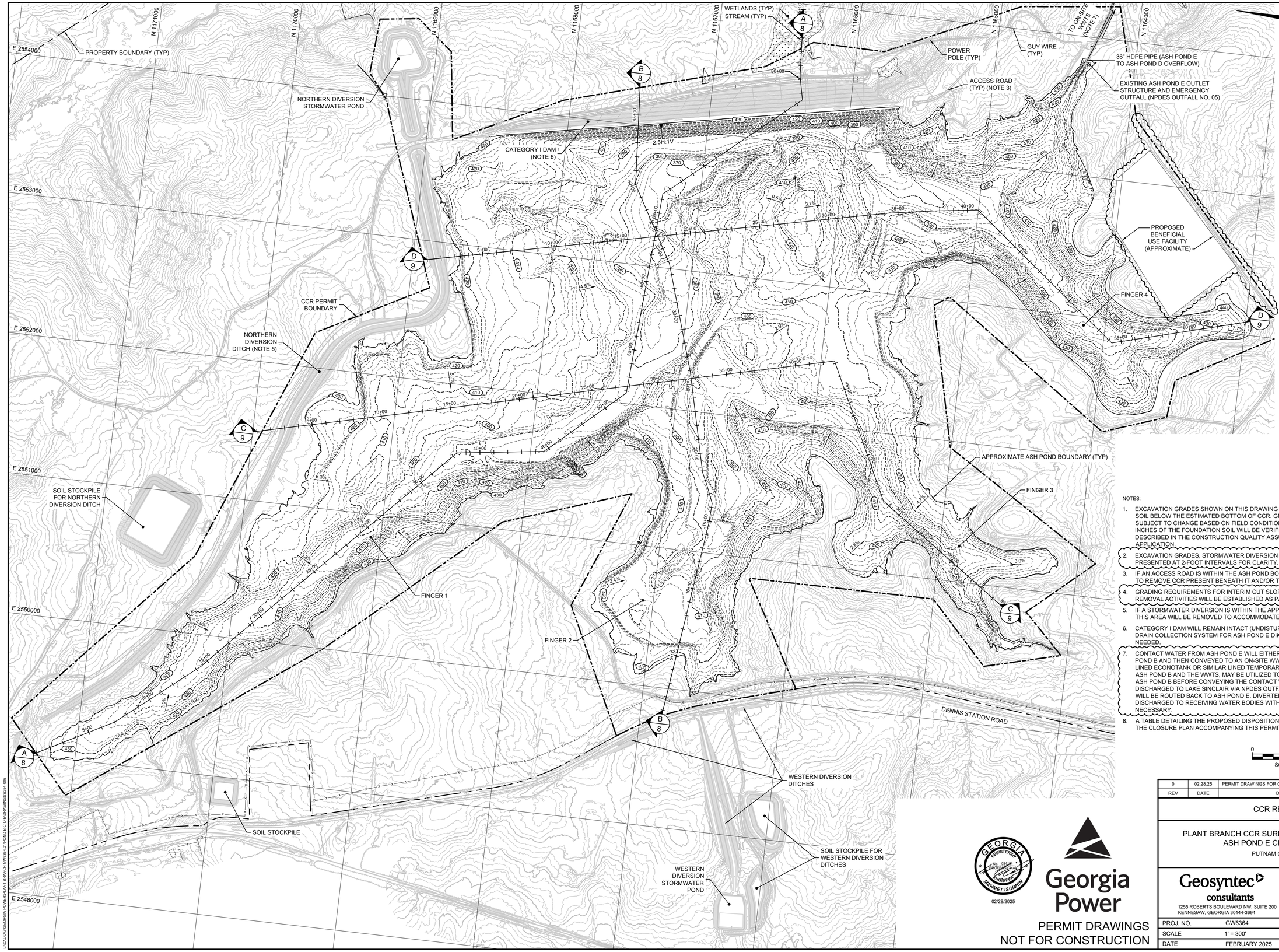
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034185 MEHMET ISCIMEN 02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GW6364	DWG.	6364-004	EDIT	02.28.2025
SCALE	AS SHOWN	DRAWING 5 OF 16			
DATE	FEBRUARY 2025				



NOTES:

1. EXCAVATION GRADES SHOWN ON THIS DRAWING DEPICT REMOVAL OF 6 INCHES OF FOUNDATION SOIL BELOW THE ESTIMATED BOTTOM OF CCR. GRADES SHOWN ARE APPROXIMATE AND MAY BE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. REMOVAL OF CCR AND AN ADDITIONAL 6 INCHES OF THE FOUNDATION SOIL WILL BE VERIFIED USING THE CCR REMOVAL CRITERIA DESCRIBED IN THE CONSTRUCTION QUALITY ASSURANCE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
2. EXCAVATION GRADES, STORMWATER DIVERSION GRADES, AND EXISTING GROUND GRADES ARE PRESENTED AT 2-FOOT INTERVALS FOR CLARITY.
3. IF AN ACCESS ROAD IS WITHIN THE ASH POND BOUNDARY, IT WILL BE REMOVED AND RELOCATED TO REMOVE CCR PRESENT BENEATH IT AND/OR TO ACCOMMODATE THE RESTORATION GRADES.
4. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY DURING CCR REMOVAL ACTIVITIES WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN.
5. IF A STORMWATER DIVERSION IS WITHIN THE APPROXIMATE ASH POND BOUNDARY, THE CCR IN THIS AREA WILL BE REMOVED TO ACCOMMODATE THE FINAL GRADES.
6. CATEGORY I DAM WILL REMAIN INTACT (UNDISTURBED) DURING CCR REMOVAL. EXISTING TOE DRAIN COLLECTION SYSTEM FOR ASH POND E DIKE MAY BE MODIFIED AND/OR EXPANDED AS NEEDED.
7. CONTACT WATER FROM ASH POND E WILL EITHER BE DIVERTED TO WITHIN THE LIMIT OF ASH POND B AND THEN CONVEYED TO AN ON-SITE WWTS OR DIRECTLY CONVEYED TO THE WWTS. A LINED ECONOTANK OR SIMILAR LINED TEMPORARY LIQUID STORAGE UNIT, CONNECTED BETWEEN ASH POND B AND THE WWTS, MAY BE UTILIZED TO PROVIDE ADDITIONAL STORAGE CAPACITY TO ASH POND B BEFORE CONVEYING THE CONTACT WATER TO THE WWTS. TREATED WATER WILL BE DISCHARGED TO LAKE SINCLAIR VIA NPDES OUTFALL NUMBER 03 AND PROCESS RETURN FLOWS WILL BE ROUTED BACK TO ASH POND E. DIVERTED NON-CONTACT STORMWATER WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT USING PUMPING WHEN NECESSARY.
8. A TABLE DETAILING THE PROPOSED DISPOSITION OF ASH POND INFRASTRUCTURE IS LOCATED IN THE CLOSURE PLAN ACCOMPANYING THIS PERMIT APPLICATION.

0 300 600
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

CCR REMOVAL PLAN

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED No. 034466 ENGINEER MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
PHONE: 678.202.9500
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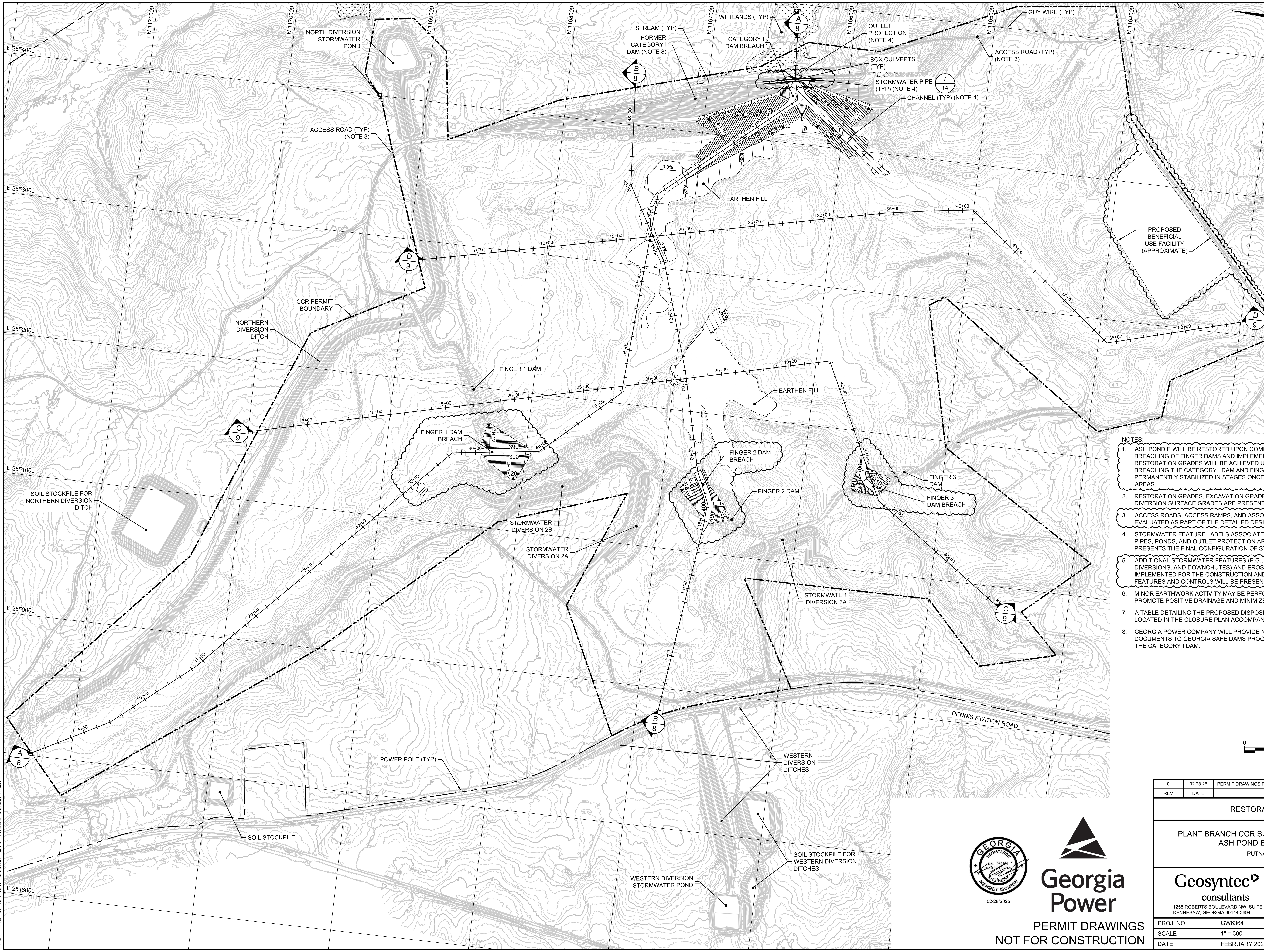
PROJ. NO.	GW6364	DWG.	6364-005	EDIT	02.28.2025
SCALE	1' = 300'	DRAWING	6	OF	16
DATE	FEBRUARY 2025				



NOTES:

1. ASH POND E WILL BE RESTORED UPON COMPLETION OF CCR EXCAVATION TO INCLUDE BREACHING OF FINGER DAMS AND IMPLEMENTATION OF NEW RESTORATION GRADES. NEW RESTORATION GRADES WILL BE ACHIEVED USING EARTHEN FILL OBTAINED FROM BREACHING THE CATEGORY I DAM AND FINGER DAMS. RESTORED AREAS WILL BE PERMANENTLY STABILIZED IN STAGES ONCE FINAL GRADES HAVE BEEN ACHIEVED IN THOSE AREAS.
2. RESTORATION GRADES, EXCAVATION GRADES, EXISTING GROUND, AND STORMWATER DIVERSION SURFACE GRADES ARE PRESENTED AT 2-FOOT INTERVALS FOR CLARITY.
3. ACCESS ROADS, ACCESS RAMPS, AND ASSOCIATED STORMWATER FEATURES WILL BE EVALUATED AS PART OF THE DETAILED DESIGN.
4. STORMWATER FEATURE LABELS ASSOCIATED WITH STORMWATER DIVERSIONS, CHANNELS, PIPES, PONDS, AND OUTLET PROTECTION ARE SHOWN ON DRAWING 13. THIS DRAWING PRESENTS THE FINAL CONFIGURATION OF STORMWATER DIVERSIONS AND CHANNELS.
5. ADDITIONAL STORMWATER FEATURES (E.G., BERMS, CHANNELS, BENCHES, STORMWATER DIVERSIONS, AND DOWNCHUTES) AND EROSION AND SEDIMENT CONTROLS MAY BE IMPLEMENTED FOR THE CONSTRUCTION AND POST-CONSTRUCTION SITE CONDITIONS. THE FEATURES AND CONTROLS WILL BE PRESENTED IN THE DETAILED DESIGN.
6. MINOR EARTHWORK ACTIVITY MAY BE PERFORMED IN LOCALIZED LOW OR STEEP SPOTS TO PROMOTE POSITIVE DRAINAGE AND MINIMIZE EROSION.
7. A TABLE DETAILING THE PROPOSED DISPOSITION OF ASH POND INFRASTRUCTURE IS LOCATED IN THE CLOSURE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
8. GEORGIA POWER COMPANY WILL PROVIDE NOTIFICATION AND NECESSARY DESIGN DOCUMENTS TO GEORGIA SAFE DAMS PROGRAM AT LEAST ONE YEAR PRIOR TO BREACHING THE CATEGORY I DAM.

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

RESTORATION GRADING PLAN

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

Geosyntec consultants
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GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
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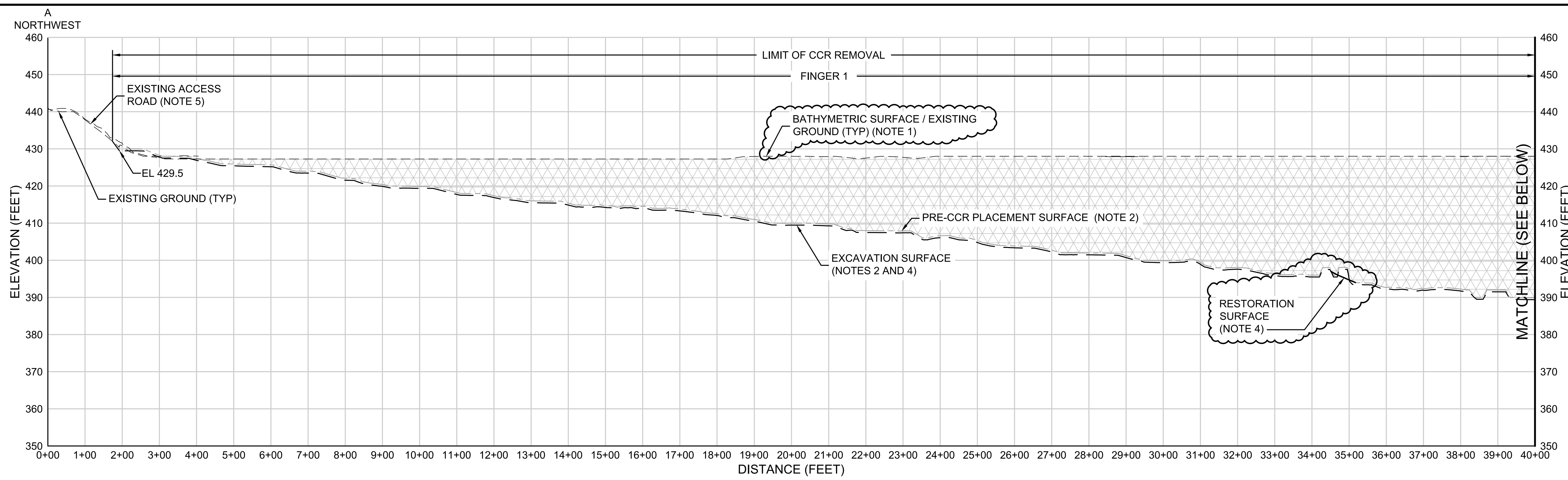
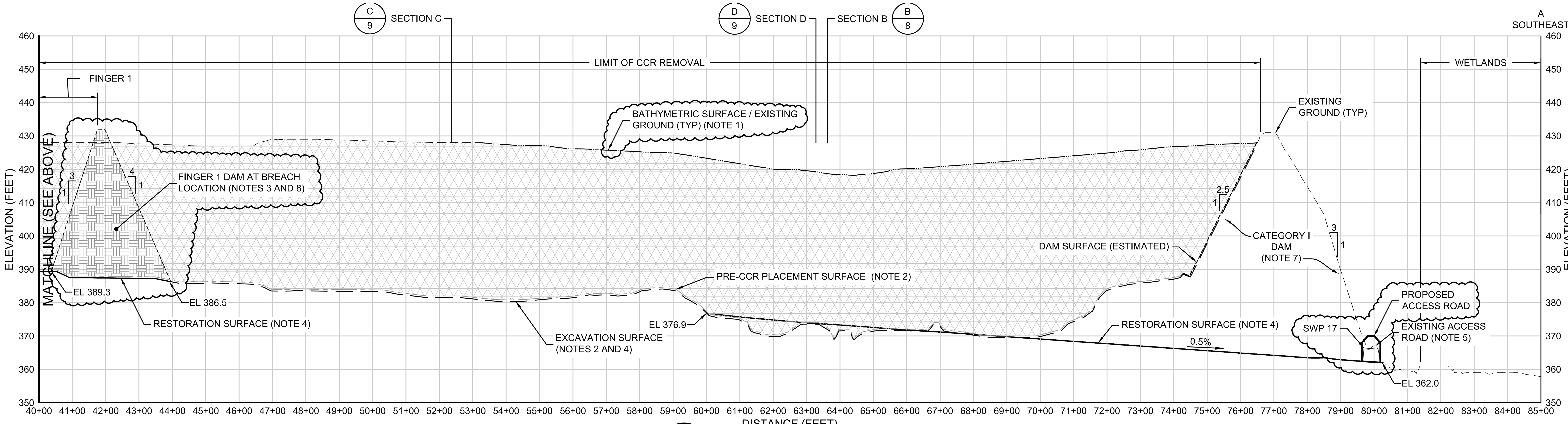
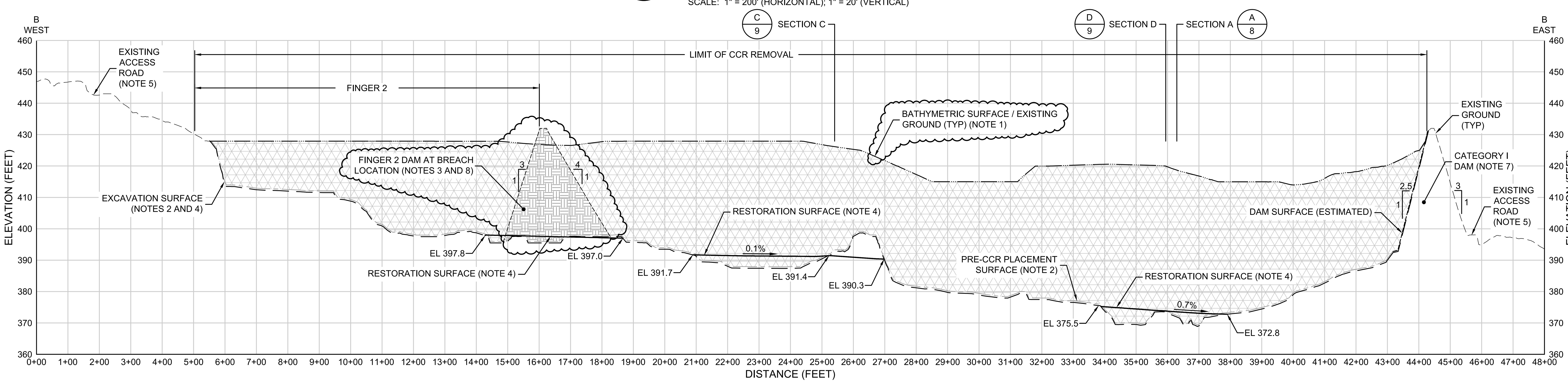
PROJ. NO.	GW6364	DWG. 6364-009	EDIT 02.28.2025
SCALE	1" = 300'	DRAWING 7 OF 16	
DATE	FEBRUARY 2025		

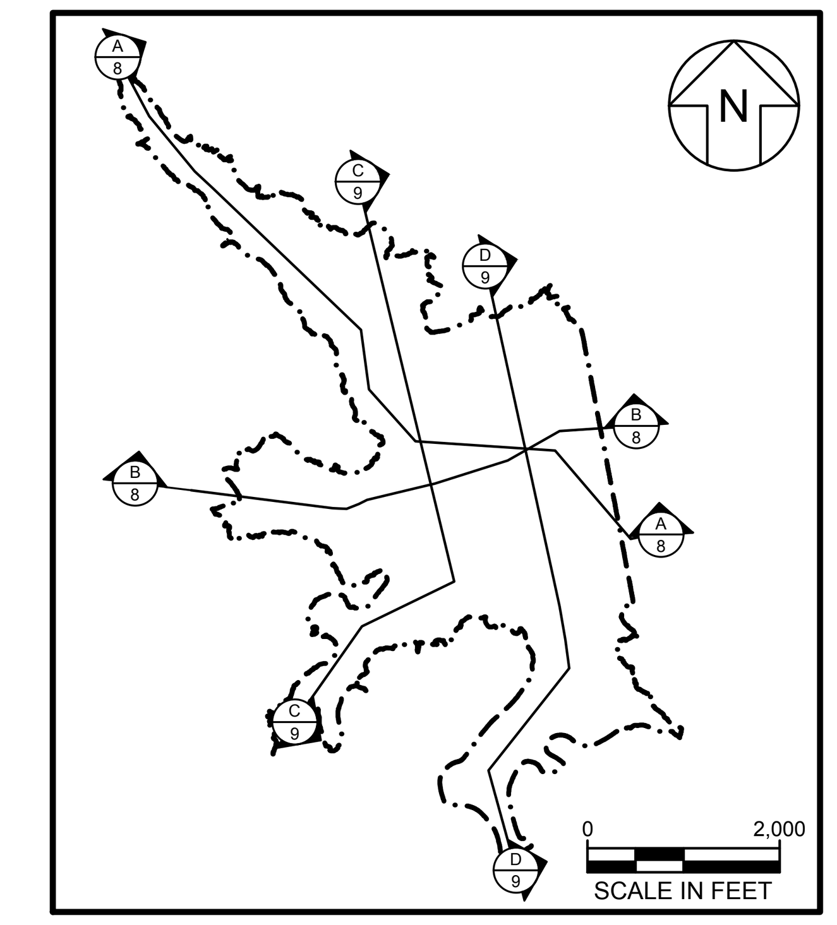




A / 6
SECTION
NORTHWEST - SOUTHEAST
SCALE: 1" = 200' (HORIZONTAL); 1" = 20' (VERTICAL)



B / 6
SECTION
WEST - EAST
SCALE: 1" = 200' (HORIZONTAL); 1" = 20' (VERTICAL)



KEY MAP
SCALE: 1" = 2,000'

NOTES:

1. FOR GENERAL NOTES SEE DRAWING 2. WATER SURFACE ELEVATIONS MAY FLUCTUATE WITH SEASONAL VARIATIONS AND THEREFORE, WERE NOT SHOWN IN SECTIONS.
2. EXCAVATION GRADES SHOWN ON THIS DRAWING DEPICT REMOVAL OF 6 INCHES OF FOUNDATION SOIL BELOW THE ESTIMATED BOTTOM OF CCR. GRADES SHOWN ARE APPROXIMATE AND MAY BE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. REMOVAL OF CCR AND AN ADDITIONAL 6 INCHES OF THE FOUNDATION SOIL WILL BE VERIFIED USING THE CCR REMOVAL CRITERIA DESCRIBED IN THE CONSTRUCTION QUALITY ASSURANCE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
3. FINGER DAMS 1, 2, AND 3 WILL BE CONSTRUCTED USING EARTHEN FILL OBTAINED FROM EXCAVATION OF STORMWATER DIVERSIONS AND ON-SITE BORROW SOURCES. FINGER DAMS AND STORMWATER DIVERSIONS ARE SHOWN ON DRAWINGS 10 AND 11. FINGER DAMS 1, 2, AND 3 WILL BE CLASSIFIED AS CATEGORY II DAMS AND A COMPLETED DAM INVENTORY AND CLASSIFICATION FORM WILL BE SUBMITTED TO GEORGIA SAFE DAMS PROGRAM PRIOR TO CONSTRUCTION OF THE DAMS.
4. RESTORATION SURFACE WILL BE CONSTRUCTED USING EARTHEN FILL OBTAINED FROM BREACHING FINGER DAMS 1, 2, AND 3 AND THE CATEGORY I DAM. ADDITIONALLY, AREAS OF THE EXCAVATION SURFACE THAT DO NOT REQUIRE EARTHWORK ACTIVITIES WILL REMAIN UNCHANGED AS PART OF THE RESTORATION GRADING.
5. IF AN ACCESS ROAD IS LOCATED WITHIN THE APPROXIMATE ASH POND BOUNDARY, IT WILL BE REMOVED AND RELOCATED TO REMOVE CCR PRESENT BENEATH IT AND/OR TO ACCOMMODATE THE RESTORATION GRADES. ACCESS ROADS WILL BE EVALUATED AS PART OF THE DETAILED DESIGN.
6. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY DURING CCR REMOVAL ACTIVITIES WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN.
7. CATEGORY I DAM WILL REMAIN INTACT (UNDISTURBED) DURING CCR REMOVAL. EXISTING FINGER DRAIN AND SUMP SYSTEMS FOR ASH POND E DAM MAY BE MODIFIED AND/OR EXPANDED AS NEEDED.
8. AN ADEQUATE SEPARATION (E.G., 100 FEET) FROM THE TOE OF THE FINGER DAMS TO CCR WILL BE ESTABLISHED FOR CONSTRUCTION OF THE FINGER DAMS. METHODS TO SEPARATE CCR FROM THE FINGER DAMS CONSTRUCTION AREAS WILL BE EVALUATED AS PART OF THE DETAILED DESIGN AND MAY INCLUDE ENGINEERING MEASURES SUCH AS LAYBACK SLOPES, SHEET PILES, GEOMEMBRANE LINERS, AND DEWATERING WELLS/TRENCHES.

0 200 400
SCALE IN FEET (HORIZONTAL)

0 20 40
SCALE IN FEET (VERTICAL)

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

SITE CROSS SECTIONS I

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED ENGINEER MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
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GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
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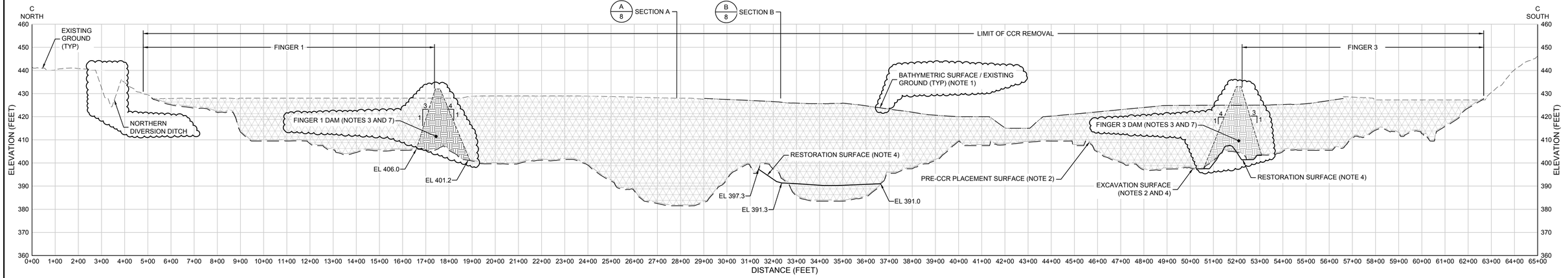
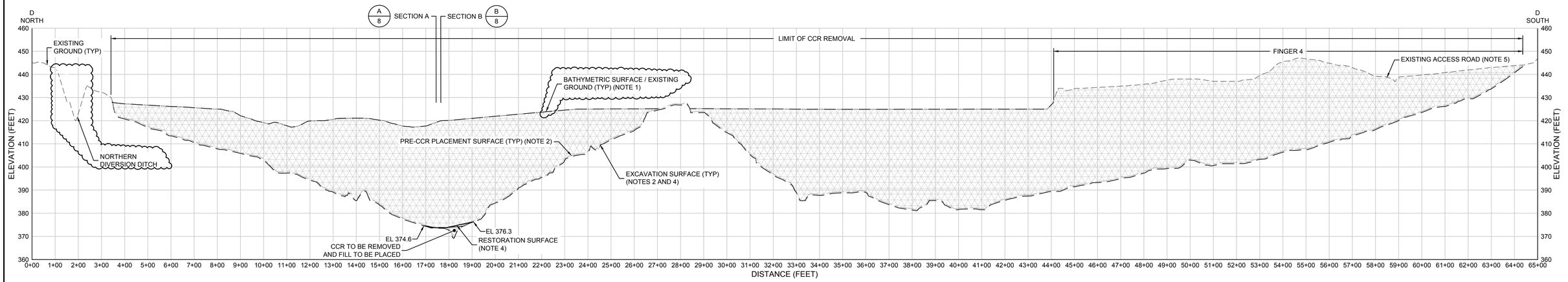
PROJ. NO.	GW6364	DWG. 6364-015	EDIT 02.28.2025
SCALE	AS SHOWN	DRAWING 8 OF 16	
DATE	FEBRUARY 2025		



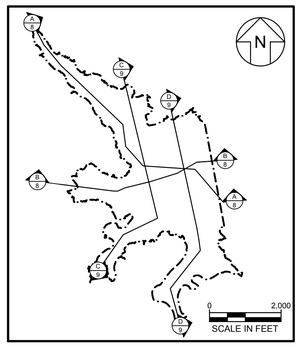
C/6 SECTION
NORTH - SOUTH
SCALE: 1" = 200' (HORIZONTAL); 1" = 20' (VERTICAL)



D/6 SECTION
NORTH - SOUTH
SCALE: 1" = 200' (HORIZONTAL); 1" = 20' (VERTICAL)

NOTES:

1. FOR GENERAL NOTES SEE DRAWING 2. WATER SURFACE ELEVATIONS MAY FLUCTUATE WITH SEASONAL VARIATIONS AND THEREFORE, WERE NOT SHOWN IN SECTIONS.
2. EXCAVATION GRADES SHOWN ON THIS DRAWING DEPICT REMOVAL OF 6 INCHES OF FOUNDATION SOIL BELOW THE ESTIMATED BOTTOM OF CCR. GRADES SHOWN ARE APPROXIMATE AND MAY BE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. REMOVAL OF CCR AND AN ADDITIONAL 6 INCHES OF THE FOUNDATION SOIL WILL BE VERIFIED USING THE CCR REMOVAL CRITERIA DESCRIBED IN THE CONSTRUCTION QUALITY ASSURANCE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
3. FINGERS DAMS 1, 2, AND 3 WILL BE CONSTRUCTED USING EARTHEN FILL OBTAINED FROM EXCAVATION OF STORMWATER DIVERSIONS AND ON-SITE BORROW SOURCES. FINGER DAMS AND STORMWATER DIVERSIONS ARE SHOWN ON DRAWINGS 10 AND 11. FINGER DAMS 1, 2, AND 3 WILL BE CLASSIFIED AS CATEGORY II DAMS AND A COMPLETED DAM INVENTORY AND CLASSIFICATION FORM WILL BE SUBMITTED TO GEORGIA SAFE DAMS PROGRAM PRIOR TO CONSTRUCTION OF THE DAMS.
4. RESTORATION SURFACE WILL BE CONSTRUCTED USING EARTHEN FILL OBTAINED FROM BREACHING FINGER DAMS 1, 2, AND 3 AND THE CATEGORY I DAM. ADDITIONALLY, AREAS OF THE EXCAVATION SURFACE THAT DO NOT REQUIRE EARTHWORK ACTIVITIES WILL REMAIN UNCHANGED AS PART OF THE RESTORATION GRADING.
5. IF AN ACCESS ROAD IS LOCATED WITHIN THE APPROXIMATE ASH POND BOUNDARY, IT WILL BE REMOVED AND RELOCATED TO REMOVE CCR PRESENT BENEATH IT AND/OR TO ACCOMMODATE THE RESTORATION GRADES. ACCESS ROADS WILL BE EVALUATED AS PART OF THE DETAILED DESIGN.
6. GRADING REQUIREMENTS FOR INTERIM CUT SLOPES TO MAINTAIN STABILITY DURING CCR REMOVAL ACTIVITIES WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN.
7. AN ADEQUATE SEPARATION (E.G., 100 FEET) FROM THE TOE OF THE FINGER DAMS TO CCR WILL BE ESTABLISHED FOR CONSTRUCTION OF THE FINGER DAMS. METHODS TO SEPARATE CCR FROM THE FINGER DAM CONSTRUCTION AREAS WILL BE EVALUATED AS PART OF THE DETAILED DESIGN AND MAY INCLUDE ENGINEERING MEASURES SUCH AS LAYBACK SLOPES, SHEET PILES, GEOMEMBRANE LINERS, AND DEWATERING WELLS/TRENCHES.



KEY MAP
SCALE: 1" = 2,000'

0 200 400
SCALE IN FEET (HORIZONTAL)

0 20 40
SCALE IN FEET (VERTICAL)

GEORGIA REGISTERED No. 034494 PROFESSIONAL ENGINEER MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

SITE CROSS SECTIONS II

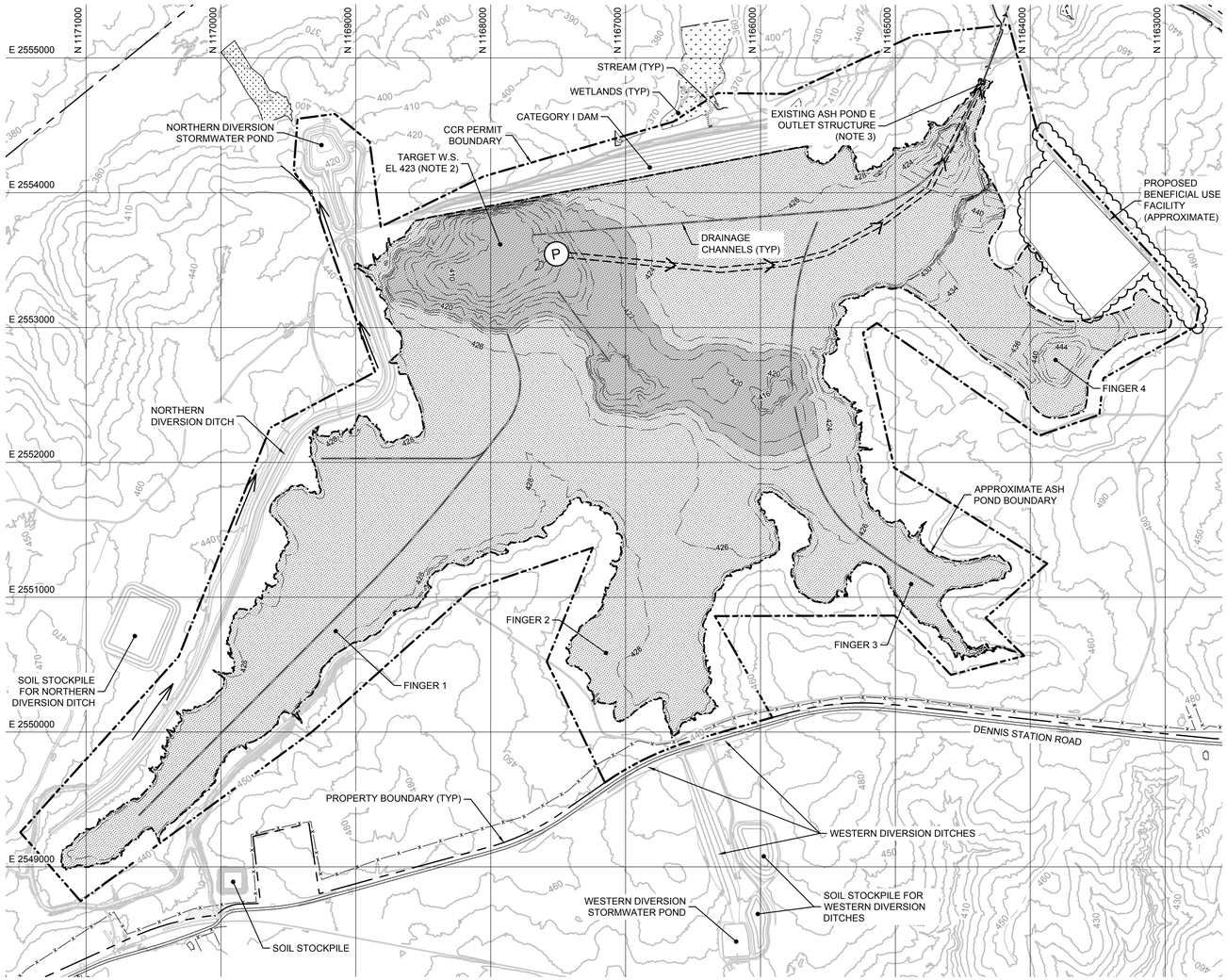
PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026

PROJ. NO.	GW6364	DWG. 6364-016	EDIT 02.28.2025
SCALE	AS SHOWN	DRAWING 9 OF 16	
DATE	FEBRUARY 2025		

L:\CAD\GA\GEORGIA POWER\PLANT BRANCH GW6364.01\POND B,C-D,E\DRAWINGS\6364-016



1
10
PLAN
PHASE I
(NOTES 2 AND 5)
SCALE: 1" = 500'

N

LEGEND

- EXPOSED CCR AREA
- FREE WATER SURFACE (NOTE 2)
- DRAINAGE CHANNELS
- STORMWATER FLOW DIRECTION (NOTE 5)
- PUMPING ROUTES (NOTES 3 AND 4)

NOTES:

1. PHASES PRESENTED IN THIS DRAWING SET WERE DEVELOPED TO ADDRESS REMOVAL OF CCR FROM THE FINGERS AND MAIN BODY OF ASH POND E, WHILE ACHIEVING COMPLIANCE WITH DESIGN CRITERIA RELATED TO STORMWATER AND CONTACT WATER MANAGEMENT. THE PHASING APPROACH IS CONCEPTUAL; PHASES MAY BE ADJUSTED AS NECESSARY, BASED ON APPROVAL FROM THE ENGINEER, WITH THE REQUIREMENT THAT STORMWATER AND CONTACT WATER MANAGEMENT MEET THE DESIGN CRITERIA CONTAINED IN THE GEORGIA RULES FOR DAM SAFETY AND GA EPD STATE CCR RULE.
2. PLAN 1 PRESENTS A SNAPSHOT OF THE SITE CONDITION UPON COMPLETION OF PHASE I. IN THIS PHASE: (I) CONTACT WATER WILL BE GRAVITY DRAINED OR PUMPED TO GENERALLY MAINTAIN AN ELEVATION OF 423 FEET MSL OR BELOW USING THE OUTLET STRUCTURE TO MEET STORMWATER AND CONTACT WATER MANAGEMENT DESIGN CRITERIA CONTAINED IN THE GEORGIA RULES FOR DAM SAFETY AND GA EPD STATE CCR RULE.
3. CONTACT WATER FROM ASH POND E WILL EITHER BE DIVERTED TO WITHIN THE LIMIT OF ASH POND B AND THEN CONVEYED TO AN ON-SITE WWTS OR DIRECTLY CONVEYED TO THE WWTS. A LINED ECONOTANK OR SIMILAR LINED TEMPORARY LIQUID STORAGE UNIT, CONNECTED BETWEEN ASH POND B AND THE WWTS, MAY BE UTILIZED TO PROVIDE ADDITIONAL STORAGE CAPACITY TO ASH POND B BEFORE CONVEYING THE CONTACT WATER TO THE WWTS. TREATED WATER WILL BE DISCHARGED TO LAKE SINCLAIR VIA NPDES OUTFALL NUMBER 03 AND PROCESS RETURN FLOWS WILL BE ROUTED BACK TO ASH POND E. DIVERTED NON-CONTACT STORMWATER WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT USING PUMPING WHEN NECESSARY.
4. PUMPING ROUTES SHOWN ON THIS DRAWING ARE ILLUSTRATIVE AND NOT REPRESENTATIVE OF ACTUAL PUMP LOCATIONS AND ASSOCIATED PIPING ROUTES.
5. FLOW DIRECTION ARROWS ON STORMWATER DIVERSIONS HAVE BEEN OFFSET FROM THE STORMWATER DIVERSION GRADING FOR CLARITY.
6. ON PLAN 1, BATHYMETRIC GRADES ARE PRESENTED AT 2-FOOT INTERVALS, STORMWATER DIVERSION GRADES AND EXISTING GROUND ARE PRESENTED AT 10-FOOT INTERVALS FOR CLARITY.

0 500 1000
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

PHASING PLANS I

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 01436 MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
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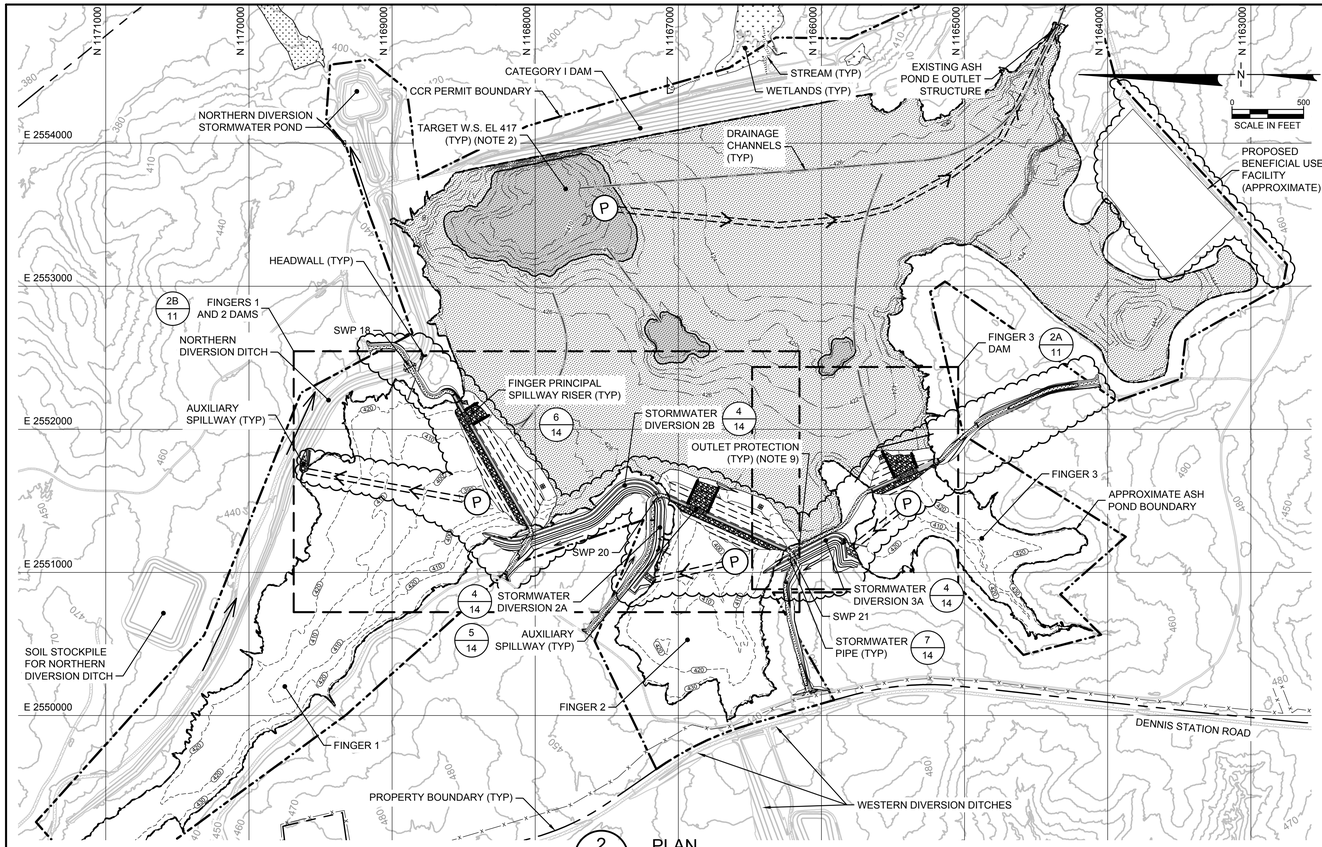
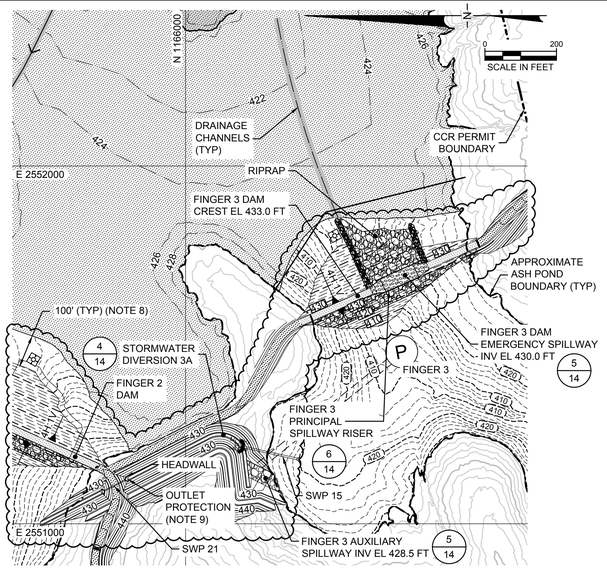
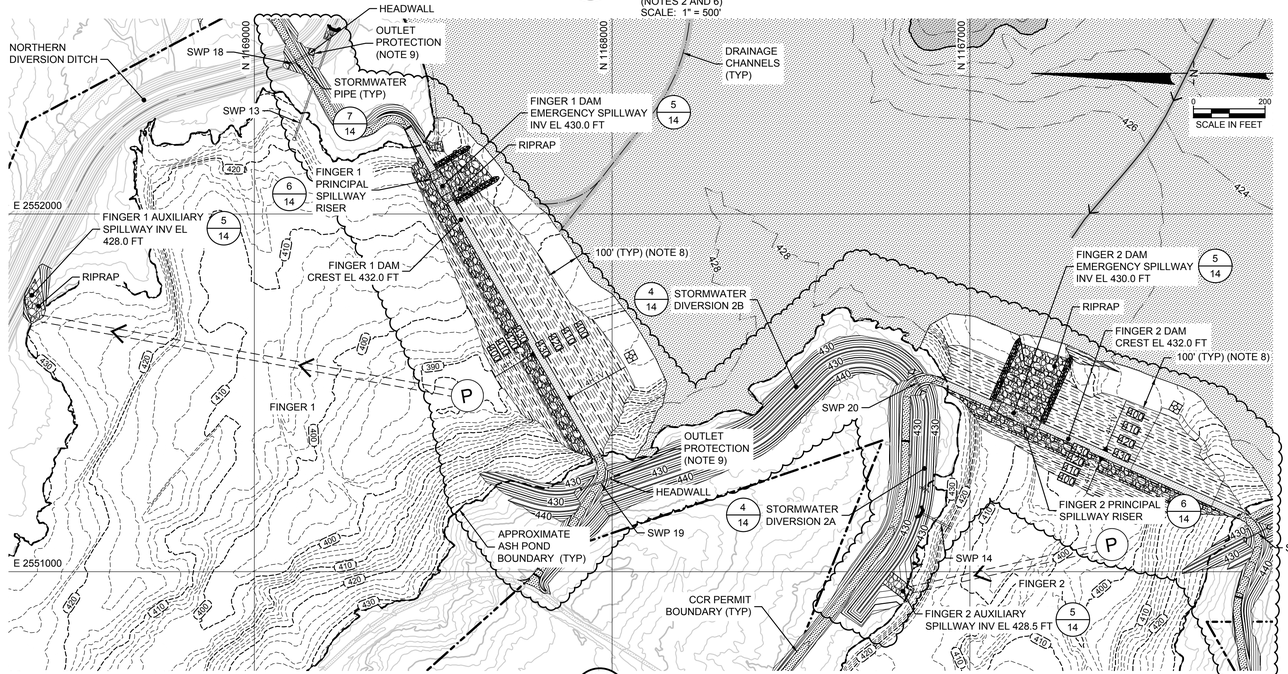
PROJ. NO.	GW6364	DWG.	6364-017	EDIT	02.28.2025
SCALE	AS SHOWN	DRAWING	10	OF	16
DATE	FEBRUARY 2025				



2 / 11 PLAN
PHASE II
(NOTES 2 AND 6)
SCALE: 1" = 500'



2A / 11 PLAN
FINGER 3 DAM
(NOTE 7)
SCALE: 1" = 200'



2B / 11 PLAN
FINGERS 1 AND 2 DAMS
(NOTE 7)
SCALE: 1" = 200'

NOTES:

1. PHASES PRESENTED IN THIS DRAWING SET WERE DEVELOPED TO ADDRESS REMOVAL OF CCR FROM THE FINGERS AND MAIN BODY OF ASH POND E, WHILE ACHIEVING COMPLIANCE WITH DESIGN CRITERIA RELATED TO STORMWATER AND CONTACT WATER MANAGEMENT. THE PHASING APPROACH IS CONCEPTUAL; PHASES MAY BE ADJUSTED AS NECESSARY, BASED ON APPROVAL FROM THE ENGINEER, WITH THE REQUIREMENT THAT STORMWATER AND CONTACT WATER MANAGEMENT MEET THE DESIGN CRITERIA CONTAINED IN THE GEORGIA RULES FOR DAM SAFETY AND GA EPD STATE CCR RULE.
2. PLAN 2 PRESENTS A SNAPSHOT OF THE SITE CONDITION UPON COMPLETION OF PHASE II. IN THIS PHASE: (I) CCR FROM FINGERS 1, 2, AND 3 WILL BE REMOVED, (II) FINGER DAMS WILL BE CONSTRUCTED TO SEPARATE STORMWATER (I.E., NON-CONTACT WATER) IN THE FINGERS FROM CONTACT WATER WITHIN ASH POND E, (III) TEMPORARY STORMWATER DIVERSIONS WILL BE CONSTRUCTED BETWEEN FINGERS 1, 2, AND 3 TO CONVEY STORMWATER, (IV) STORMWATER PUMPING SYSTEM, PRINCIPAL SPILLWAY RISERS, AND OUTLET PIPES WILL INSTALLED WITHIN FINGERS 1, 2, AND 3 UPON COMPLETION OF CCR REMOVAL TO DISCHARGE STORMWATER, AND (V) THE FREE WATER SURFACE ELEVATION (CONTACT WATER) WITHIN ASH POND E WILL BE GRAVITY DRAINED OR PUMPED TO GENERALLY MAINTAIN AN ELEVATION OF 417 FEET MSL OR BELOW. THIS PHASE WILL BE EXECUTED IN STAGES AND REASONABLE MEASURES WILL BE TAKEN TO MINIMIZE STORMWATER RUN-ON INTO THE FINGERS DURING CCR REMOVAL IN THESE AREAS. MINIMIZATION TECHNIQUES MAY INCLUDE INSTALLING TEMPORARY BERMS OR CHANNELS AROUND THE FINGERS TO DIVERT RUN-ON AROUND THE WORKING AREAS TO EITHER DOWNSTREAM OF THE WORKING AREAS WITHIN THE FINGERS OR DIRECTLY INTO ASH POND E, AND AS NEEDED WITHIN THE WORKING AREAS OF THE FINGER TO ISOLATE CCR DEWATERING AND REMOVAL OPERATIONS. SHEET PILES, OTHER HYDRAULIC BARRIERS, OR HYDRAULIC CONTROL SYSTEMS MAY BE USED IN CONJUNCTION WITH THE FINGER DAMS TO ENHANCE THE STABILITY OF THE DAMS AND MINIMIZE RUN-ON FROM THE FINGERS TO THE MAIN BODY OF ASH POND E.
3. CONTACT WATER FROM ASH POND E WILL EITHER BE DIVERTED TO WITHIN THE LIMIT OF ASH POND B AND THEN CONVEYED TO AN ON-SITE WWTS OR DIRECTLY CONVEYED TO THE WWTS. A LINED ECONOTANK OR SIMILAR LINED TEMPORARY LIQUID STORAGE UNIT, CONNECTED BETWEEN ASH POND B AND THE WWTS, MAY BE UTILIZED TO PROVIDE ADDITIONAL STORAGE CAPACITY TO ASH POND B BEFORE CONVEYING THE CONTACT WATER TO THE WWTS. TREATED WATER WILL BE DISCHARGED TO LAKE SINCLAIR VIA NPDES OUTFALL NUMBER 03 AND PROCESS RETURN FLOWS WILL BE ROUTED BACK TO ASH POND E. DIVERTED NON-CONTACT STORMWATER AND STORMWATER COLLECTED IN FINGERS 1, 2, AND 3 WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT USING PUMPING WHEN NECESSARY.
4. PUMPING ROUTES SHOWN ON THIS DRAWING ARE ILLUSTRATIVE AND NOT REPRESENTATIVE OF ACTUAL PUMP LOCATIONS AND ASSOCIATED PIPING ROUTES.
5. FLOW DIRECTION ARROWS ON STORMWATER DIVERSIONS HAVE BEEN OFFSET FROM THE STORMWATER DIVERSION GRADING FOR CLARITY.
6. ON PLAN 2, BATHYMETRIC GRADES ARE PRESENTED AT 2-FOOT INTERVALS, GRADES OF NORTHERN AND WESTERN DIVERSION DITCHES, FINGER DAMS, EXISTING GROUND, OTHER STORMWATER DIVERSIONS, AND EXCAVATION GRADES ARE PRESENTED AT 10-FOOT INTERVALS FOR CLARITY.
7. ON PLANS 2A AND 2B, FINGER DAMS, BATHYMETRIC, STORMWATER DIVERSION, EXCAVATION, AND EXISTING GROUND GRADES ARE PRESENTED AT 2-FOOT INTERVALS.
8. AN ADEQUATE SEPARATION (E.G., 100 FEET) FROM THE TOE OF THE FINGER DAMS TO CCR WILL BE ESTABLISHED FOR CONSTRUCTION OF THE FINGER DAMS. METHODS TO SEPARATE CCR FROM THE FINGER DAM CONSTRUCTION AREAS WILL BE EVALUATED AS PART OF THE DETAILED DESIGN AND MAY INCLUDE ENGINEERING MEASURES SUCH AS LAYBACK SLOPES, SHEET PILES, GEOMEMBRANE LINERS, AND DEWATERING WELLS/TRENCHES.
9. OUTLET PROTECTION NOT SHOWN FOR CLARITY.
10. SLOPE INDICATORS REPRESENT 3H:1V SIDE SLOPES UNLESS OTHERWISE NOTED.
11. STABILITY REQUIREMENTS FOR FINGER DAMS WILL BE ESTABLISHED AS PART OF THE DETAILED DESIGN.

LEGEND

- COMPLETED CCR REMOVAL AREA
- EXPOSED CCR AREA
- FREE WATER SURFACE (NOTE 2)
- P — PUMPING ROUTES (NOTES 3 AND 4)
- STORMWATER FLOW DIRECTION (NOTE 5)

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

PHASING PLANS II

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED No. 034496 PROFESSIONAL ENGINEER MERIMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

Geosyntec consultants
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KENNESAW, GEORGIA 30144-3694
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GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026

PROJ. NO.	GW6364	DWG.	6364-018	EDIT	02.28.2025
SCALE	AS SHOWN	DRAWING	11	OF	16
DATE	FEBRUARY 2025				

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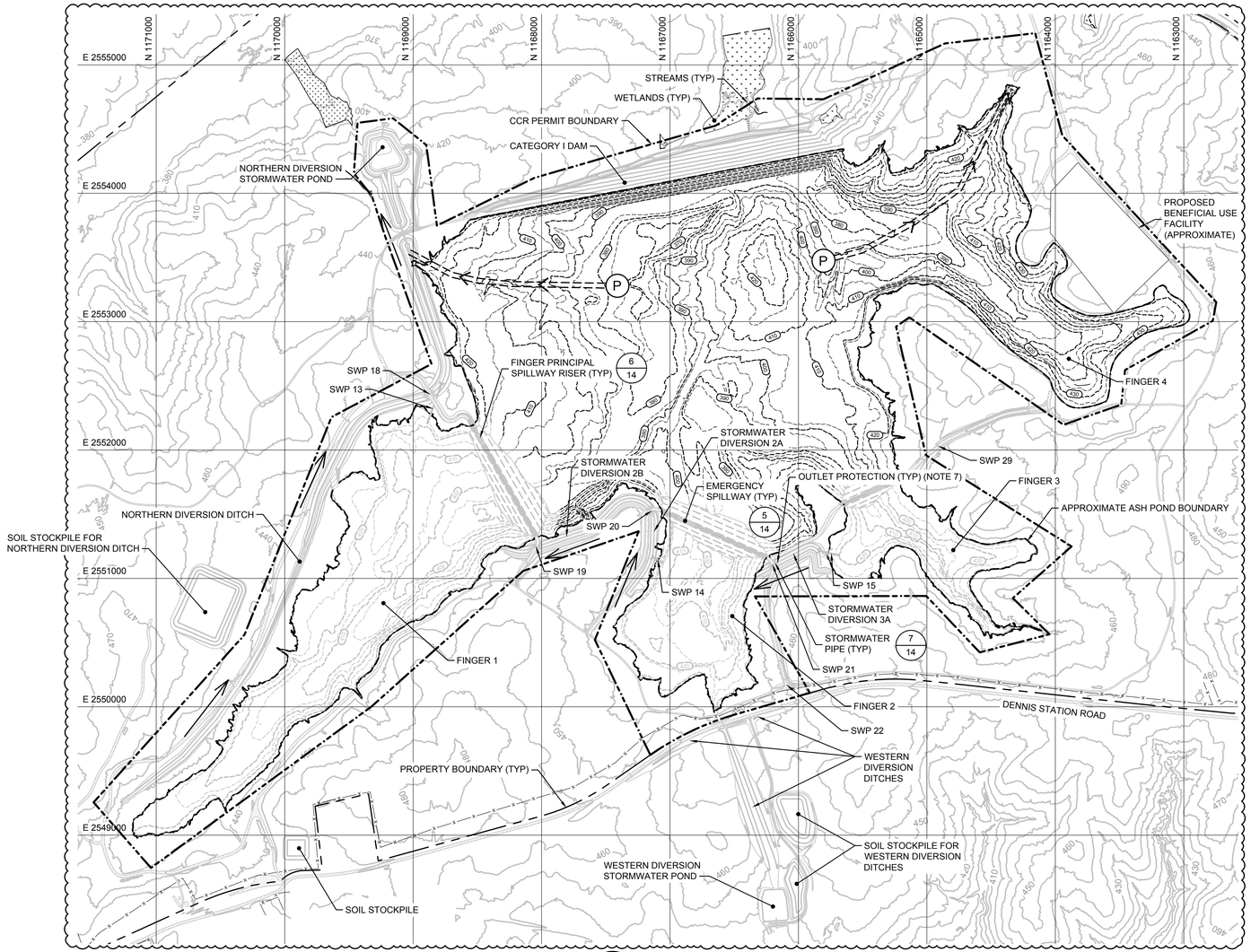

3/12 PLAN

PHASE III

(NOTES 2 AND 6)

SCALE: 1" = 500'

NOTES:

1. PHASES PRESENTED IN THIS DRAWING SET WERE DEVELOPED TO ADDRESS REMOVAL OF CCR FROM THE FINGERS AND MAIN BODY OF ASH POND E, WHILE ACHIEVING COMPLIANCE WITH DESIGN CRITERIA RELATED TO STORMWATER AND CONTACT WATER MANAGEMENT. THE PHASING APPROACH IS CONCEPTUAL; PHASES MAY BE ADJUSTED AS NECESSARY, BASED ON APPROVAL FROM THE ENGINEER, WITH THE REQUIREMENT THAT STORMWATER AND CONTACT WATER MANAGEMENT MEET THE DESIGN CRITERIA CONTAINED IN THE GEORGIA RULES FOR DAM SAFETY AND GA EPD STATE CCR RULE.
2. PLAN 3 PRESENTS A SNAPSHOT OF THE SITE CONDITION UPON COMPLETION OF PHASE III. IN THIS PHASE: (I) DEWATERING AND REMOVAL OF CCR WILL BE CONDUCTED FOR THE REMAINDER OF ASH POND E, AND (II) THE FREE WATER SURFACE ELEVATION (CONTACT WATER) WITHIN ASH POND E WILL BE GRAVITY DRAINED OR PUMPED TO BE GENERALLY MAINTAINED AS LOW AS PRACTICAL TO FACILITATE CCR REMOVAL. THIS INSTALLED AS NEEDED WITHIN ASH POND E, TO ISOLATE CCR DEWATERING AND REMOVAL AREAS, TO DIVERT CONTACT WATER RUNOFF TO DOWNGRADIENT LOCATIONS WITHIN ASH POND E, AND TO MANAGE RUNOFF IN AREAS WHERE CCR REMOVAL IS COMPLETED AS STORMWATER. CCR REMOVAL WILL GENERALLY MOVE IN A DOWNGRADIENT DIRECTION, STARTING AT THE EDGE AND MOVING TOWARD THE LOW SPOTS OF THE ASH POND, TO LIMIT THE VOLUME OF WATER TO BE MANAGED DURING REMOVAL ACTIVITIES. PHASE III WILL BE FINISHED UPON COMPLETE REMOVAL OF CCR MATERIAL AND SIX INCHES OF UNDERLYING FOUNDATION SOIL FROM ASH POND E. AFTER COMPLETION OF PHASE III, PRIOR TO THE IMPLEMENTATION OF RESTORATION GRADING, RUNOFF GENERATED AND COLLECTED WITHIN ASH POND E WILL BE MANAGED AS STORMWATER.
3. CONTACT WATER FROM ASH POND E WILL EITHER BE DIVERTED TO WITHIN THE LIMIT OF ASH POND B AND THEN CONVEYED TO AN ON-SITE WWTS OR DIRECTLY CONVEYED TO THE WWTS. A LINED ECONOTANK OR SIMILAR LINED TEMPORARY LIQUID STORAGE UNIT, CONNECTED BETWEEN ASH POND B AND THE WWTS, MAY BE UTILIZED TO PROVIDE ADDITIONAL STORAGE CAPACITY TO ASH POND B BEFORE CONVEYING THE CONTACT WATER TO THE WWTS. TREATED WATER WILL BE DISCHARGED TO LAKE SINCLAIR VIA NPDES OUTFALL NUMBER 03 AND PROCESS RETURN FLOWS WILL BE ROUTED BACK TO ASH POND E. DIVERTED NON-CONTACT STORMWATER AND STORMWATER COLLECTED IN FINGERS 1, 2, AND 3 WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT USING PUMPING WHEN NECESSARY.
4. PUMPING ROUTES SHOWN ON THIS DRAWING ARE ILLUSTRATIVE AND NOT REPRESENTATIVE OF ACTUAL PUMP LOCATIONS AND ASSOCIATED PIPING ROUTES.
5. FLOW ARROWS HAVE BEEN OFFSET FROM APPLICABLE STORMWATER DIVERSIONS FOR CLARITY OF FLOW DIRECTION.
6. ON PLAN 3, EXCAVATION GRADES ARE PRESENTED AT 5-FOOT INTERVALS; GRADES OF NORTHERN AND WESTERN DIVERSION DITCHES, EXISTING GROUND, AND OTHER STORMWATER DIVERSION GRADES ARE PRESENTED 10-FOOT INTERVALS FOR CLARITY.
7. OUTLET PROTECTION NOT SHOWN FOR CLARITY.
8. NON-CONTACT STORMWATER COLLECTED WITHIN ASH POND E AFTER THE COMPLETION OF PHASE III WILL BE PUMPED TO THE STORMWATER DIVERSIONS OR DOWNGRADIENT DRAINAGE PATHWAYS FOR DISCHARGE TO RECEIVING WATER BODIES WITHOUT TREATMENT.

LEGEND

- COMPLETED CCR REMOVAL AREA
- PUMPING ROUTES (NOTES 3, 4, AND 8)
- STORMWATER FLOW DIRECTION (NOTE 5)

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

PHASING PLANS III

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034444 MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

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PROJ. NO.	GW6364	DWG.	6364-032	EDIT	02.28.2025
SCALE	1" = 500'	DRAWING	12	OF	16
DATE	FEBRUARY 2025				

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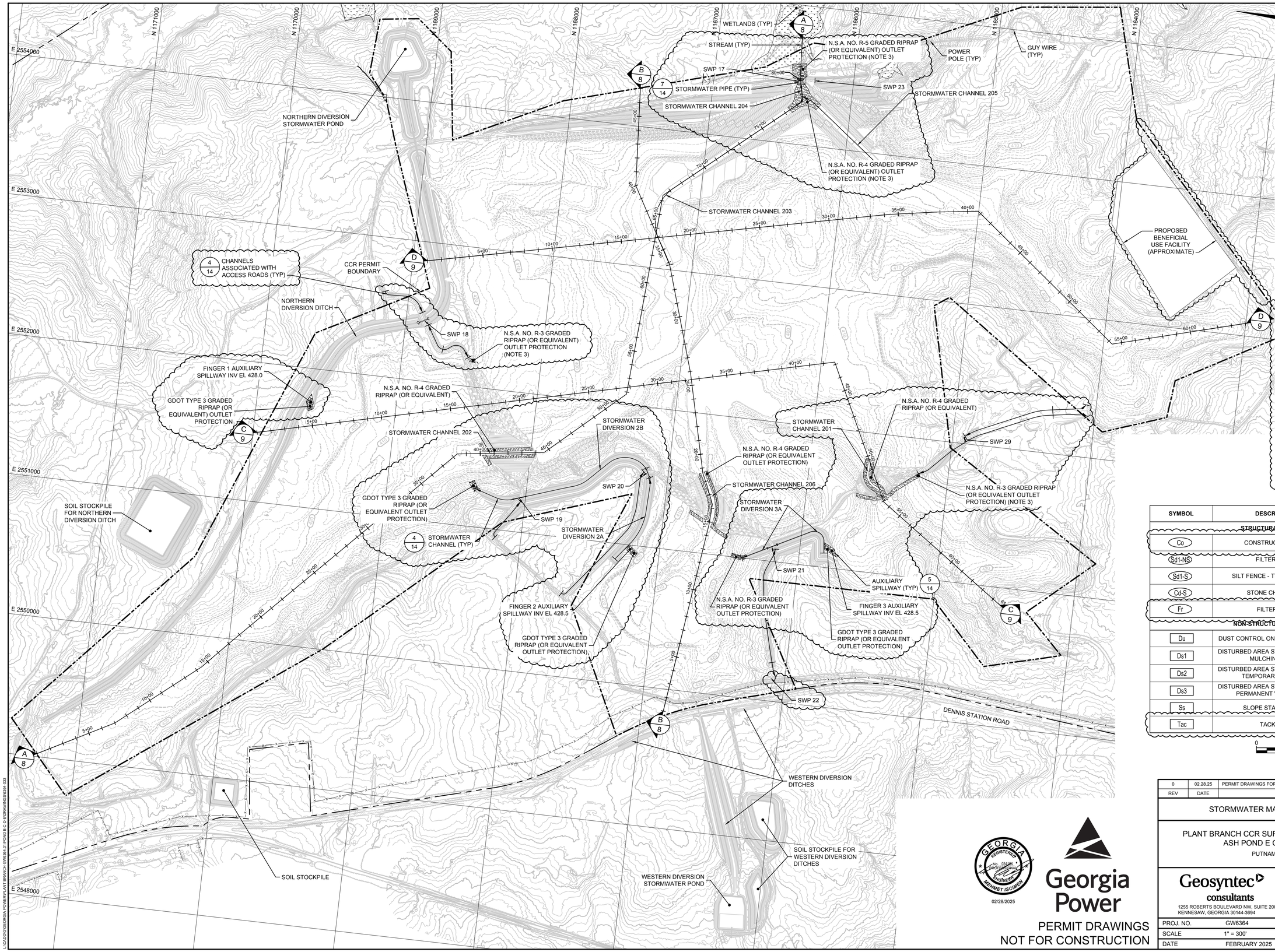

NOTES:

1. GRADING SHOWN IS A COMBINATION OF (I) TOP OF FINISHED SURFACE FOR FINISHED GRADES AND RESTORATION SURFACE (I.E., TOP OF LINING FOR STORMWATER DIVERSIONS AND CHANNELS); (II) EXCAVATION SURFACE (I.E., PRE-CCR PLACEMENT GRADES WITH AN ADDITIONAL 6 INCHES OF FOUNDATION SOIL REMOVED) WITHIN THE APPROXIMATE ASH POND BOUNDARY THAT REMAIN UNCHANGED AS PART OF THE RESTORATION GRADING; AND (III) EXISTING GROUND. GRADING IS SHOWN AS SCREENED TO HIGHLIGHT THE STORMWATER MANAGEMENT SYSTEM.
2. ADDITIONAL STORMWATER FEATURES (E.G., BERMS, CHANNELS, BENCHES, STORMWATER DIVERSIONS, AND DOWNCHUTES) MAY BE ADDED FOR CONSTRUCTION AND POST-CONSTRUCTION SITE CONDITIONS. THESE FEATURES WILL BE PRESENTED IN THE DETAILED DESIGN.
3. N.S.A. NO. R-3, R-4, AND R-5 GRADED RIPRAP (OR EQUIVALENT) OUTLET PROTECTION WILL BE INSTALLED TO PROVIDE PROTECTION AGAINST EROSION AND SCOUR.
4. A PHASED EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPCP), PREPARED IN ACCORDANCE WITH THE GEORGIA CONSTRUCTION GENERAL PERMIT (I.E., AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY) AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, WILL BE DEVELOPED AS PART OF THE DETAILED DESIGN. BEST MANAGEMENT PRACTICES TO BE IMPLEMENTED AS PART OF THE ESPCP MAY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING MEASURES:

SYMBOL	DESCRIPTION	DETAIL NO.
	STRUCTURAL MEASURES	
Co	CONSTRUCTION EXIT	11
Sd1-NS	FILTER SOCK	10
Sd1-S	SILT FENCE - TYPE SENSITIVE	8
Cd-S	STONE CHECK DAM	12
Fr	FILTER RING	9
	NON-STRUCTURAL MEASURES	
Du	DUST CONTROL ON DISTURBED AREAS	DETAILS FOR NON-STRUCTURAL MEASURES RELATED TO DISTURBED AREA STABILIZATION AND VEGETATION WILL BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	
Ss	SLOPE STABILIZATION	
Tac	TACKIFIER	

0 300 600
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

STORMWATER MANAGEMENT SYSTEM PLAN

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034194 MEHMET ISCIMEN
02/28/2025

Georgia Power

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PROJ. NO.	GW6364	DWG.	6364-033
SCALE	1" = 300'	EDIT	02.28.2025
DATE	FEBRUARY 2025	DRAWING	13 OF 16

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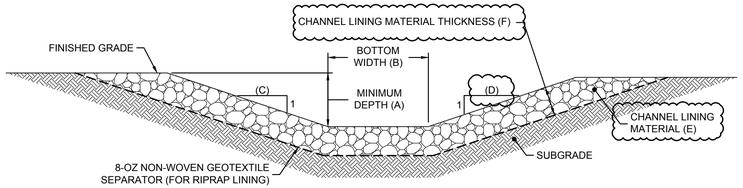
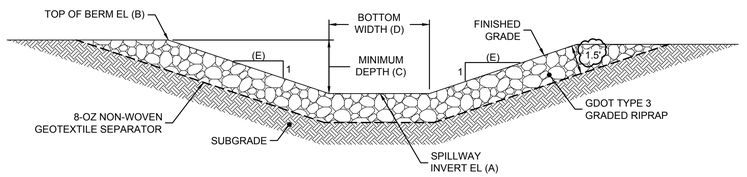


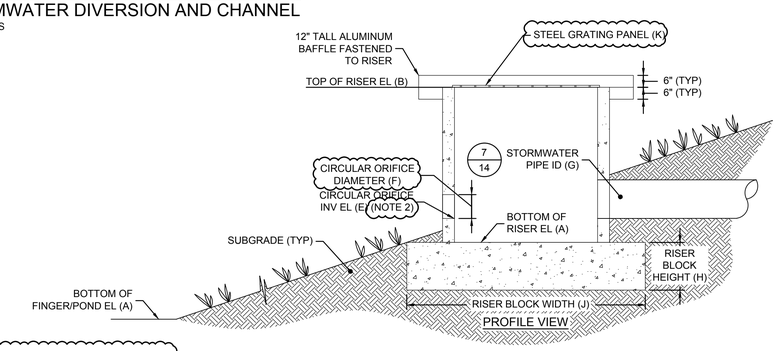
DESIGNATION					(A)	(B)	(C)	(D)	(E)	(F)
CHANNEL ID	UPSTREAM INVERT EL (FT)	DOWNSTREAM INVERT EL (FT)	LENGTH (FT)	SLOPE (FT/FT)	MINIMUM DEPTH (FT)	BOTTOM WIDTH (FT)	SIDE SLOPE (NOTE 1)	SIDE SLOPE (NOTE 1)	CHANNEL LINING MATERIAL	CHANNEL LINING THICKNESS
CHANNEL 201	403.5	398.0	344	0.016	10.0	40.0	3.0	4.0	GRASS-LINED (NOTE 9)	N/A
CHANNEL 202	389.3	386.5	348	0.008	10.0	50.0	4.0	4.0	GRASS-LINED (NOTE 9)	N/A
CHANNEL 203	375.5	363.1	1,763	0.007	10.0	50.0	4.0	4.0	GRASS-LINED (NOTE 6)	N/A
CHANNEL 204	363.1	362.3	99	0.008	10.0	100.0	4.0	4.0	N.S.A. NO. R-4	1.50
CHANNEL 205	374.6	363.1	853	0.014	10.0	50.0	4.0	4.0	GRASS-LINED (NOTE 6)	N/A
CHANNEL 206	398.0	397.0	432	0.002	4.2	50.0	4.0	4.0	GRASS-LINED (NOTE 9)	N/A
DIVERSION 2A	423.2	423.2	659	0.000	6.4	8.0	3.0	3.0	N.S.A. NO. R-3	0.75
DIVERSION 2B	423.2	423.2	1,261	0.000	6.8	8.0	3.0	3.0	N.S.A. NO. R-3	0.75
DIVERSION 3A	423.2	423.2	684	0.000	9.4	8.0	3.0	3.0	N.S.A. NO. R-3	0.75
CHANNELS ASSOCIATED WITH ACCESS ROADS	VARIES (NOTE 10)	VARIES (NOTE 10)	VARIES (NOTE 10)	VARIES (NOTE 10)	2.0	0.0	3.0	3.0	GRASS-LINED	N/A

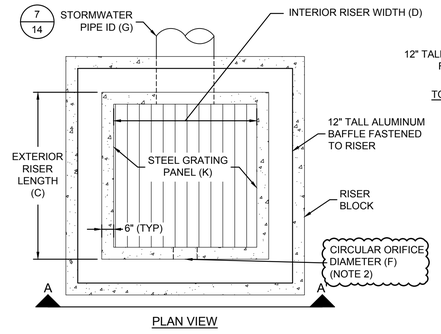
4/11 DETAIL
STORMWATER DIVERSION AND CHANNEL
SCALE: NTS

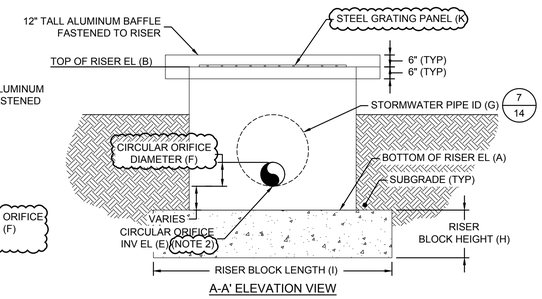


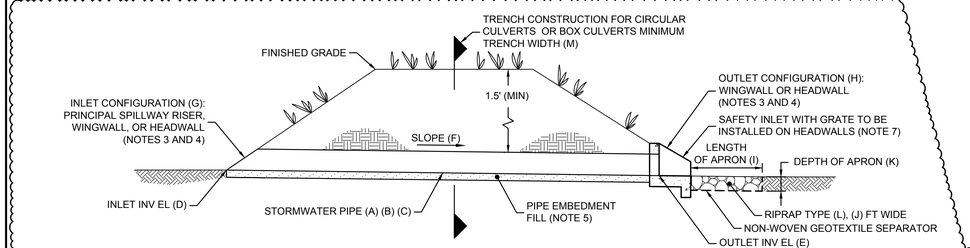
DESIGNATION	(A)	(B)	(C)	(D)	(E)
FINGER/POND ID	SPILLWAY INV EL (FT)	TOP OF BERM EL (FT)	MINIMUM DEPTH (FT)	BOTTOM WIDTH (FT)	SIDE SLOPE
FINGER 1 AUXILIARY	428.0	430.0	2.0	40.0	3.0
FINGER 2 AUXILIARY	428.5	430.5	2.0	40.0	3.0
FINGER 3 AUXILIARY	428.5	430.5	2.0	40.0	3.0
FINGER 1 DAM EMERGENCY	430.0	432.0	2.0	50.0	12.0
FINGER 2 DAM EMERGENCY	430.0	432.0	2.0	50.0	12.0
FINGER 3 DAM EMERGENCY	430.0	433.0	3.0	100.0	12.0

5/11 DETAIL
EMERGENCY AND AUXILIARY SPILLWAYS
SCALE: NTS









DESIGNATION	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
PIPE ID	MATERIAL TYPE (NOTE 8)	(NUMBER OF STORMWATER PIPE) - DIAMETER OR LENGTH X HEIGHT	LENGTH (FT)	INLET INV EL (FT)	OUTLET INV EL (FT)	SLOPE (FT/FT)	INLET CONFIGURATION	OUTLET CONFIGURATION	LENGTH OF RIPRAP APRON (FT)	WIDTH OF RIPRAP APRON (FT)	DEPTH OF RIPRAP APRON (FT)	RIPRAP TYPE	MIN TRENCH WIDTH (FT)
SWP 13	HDPE	(1) - 36 INCH	288	422.0	421.0	0.003	PRINCIPAL SPILLWAY RISER	HEADWALL, L TYPE WINGS	29.0	9.0	1.50	N.S.A. NO. R-4	6.1
SWP 14	HDPE	(1) - 36 INCH	93	423.2	423.2	0.000	PRINCIPAL SPILLWAY RISER	HEADWALL, STRAIGHT WALL	29.0	9.0	1.50	N.S.A. NO. R-4	6.1
SWP 15	HDPE	(1) - 36 INCH	129	423.2	423.2	0.000	PRINCIPAL SPILLWAY RISER	HEADWALL, STRAIGHT WALL	32.0	9.0	1.50	N.S.A. NO. R-4	6.1
SWP 17	RCP	(6) - 5' X 4' BOX CULVERTS	24	362.3	362.1	0.006	WINGWALL	WINGWALL	100.0	100.0	2.25	N.S.A. NO. R-5	38.0
SWP 18	RCP	(1) - 4' X 6' BOX CULVERT	62	421.9	421.9	0.000	WINGWALL	WINGWALL	35.0	12.0	3.00	N.S.A. NO. R-6	7.0
SWP 19	HDPE	(1) - 36 INCH	86	423.2	423.2	0.000	HEADWALL, 45° WINGS	HEADWALL, 45° WINGS	31.0	9.0	1.50	N.S.A. NO. R-4	6.1
SWP 20	HDPE	(1) - 36 INCH	53	423.2	423.2	0.000	HEADWALL, 45° WINGS	HEADWALL, 45° WINGS	29.0	9.0	1.50	N.S.A. NO. R-4	6.1
SWP 21	HDPE	(1) - 24 INCH	65	423.2	423.2	0.000	HEADWALL, 45° WINGS	HEADWALL, 45° WINGS	31.0	6.0	1.50	N.S.A. NO. R-4	4.4
SWP 22	HDPE	(1) - 24 INCH	51	445.4	442.1	0.064	HEADWALL, STRAIGHT WALL	HEADWALL, STRAIGHT WALL	18.0	6.0	3.00	N.S.A. NO. R-6	4.4
SWP 23	SDR-9 HDPE	(1) - 18 INCH	35	367.0	365.2	0.050	NONE	NONE	DISCHARGES TO EXISTING CONCRETE-LINED CHANNEL				3.3
SWP 29	SDR-13.5 HDPE	(3) - 18 INCH	29	445.6	445.5	0.005	HEADWALL, STRAIGHT WALL (NOTE 4)	HEADWALL, STRAIGHT WALL (NOTE 4)	7.0	8.0	0.75	N.S.A. NO. R-3	8.3

7/11 DETAIL
STORMWATER PIPE
SCALE: NTS

DESIGNATION	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
FINGER ID	BOTTOM OF RISER EL (FT)	TOP OF RISER EL (FT)	EXTERIOR RISER LENGTH (FT)	INTERIOR RISER WIDTH (FT)	CIRCULAR ORIFICE INV EL (FT)	CIRCULAR ORIFICE DIAMETER (IN)	STORMWATER PIPE ID	RISER BLOCK HEIGHT (FT)	RISER BLOCK LENGTH (FT)	RISER BLOCK WIDTH (FT)	PANEL LENGTH (IN) X WIDTH (IN)
FINGER 1	421.0	427.5	8	7	422.0	12	SWP 13	1.0	10	10	86 x 86
FINGER 2	422.2	427.5	7	6	423.2	12	SWP 14	1.0	10	10	74 x 74
FINGER 3	422.2	427.5	7	6	423.2	12	SWP 15	1.0	10	10	74 x 74

6/11 DETAIL
PRINCIPAL SPILLWAY RISER
SCALE: NTS

NOTES:

1. SIDE SLOPE DIMENSIONS ARE PRESENTED SUCH THAT THE STORMWATER CHANNEL CROSS SECTION IS CUT LOOKING DOWNSTREAM WITH RESPECT TO THE DIRECTION OF FLOW.
2. TRASH RACKS WILL BE INSTALLED OVER DRAWDOWN ORIFICES TO PREVENT CLOGGING. SKIMMERS WILL BE INSTALLED ON CIRCULAR DRAWDOWN ORIFICES DURING CONSTRUCTION. SKIMMER DETAILS ARE PROVIDED IN DETAILED DESIGN.
3. HEADWALLS FOR SINGULAR CIRCULAR CULVERT WILL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH GDOT STANDARD DETAIL NUMBER 1001-B OR ENGINEER APPROVED EQUIVALENT.
4. HEADWALLS FOR MULTIPLE CIRCULAR CULVERTS WILL BE SIZED WITH HEIGHT DIMENSIONS ACCORDING TO SINGLE CIRCULAR CULVERTS AND WIDTH DIMENSIONS ACCORDING TO MINIMUM SPACING BETWEEN REQUIREMENTS. MINIMUM SPACING BETWEEN MULTIPLE PARALLEL HDPE PIPES WILL BE 12 INCHES FOR PIPE DIAMETERS LESS THAN OR EQUAL TO 24 INCHES OR ONE-HALF THE PIPE DIAMETER FOR PIPE DIAMETERS GREATER THAN 24 INCHES, OR IN ACCORDANCE WITH PIPE MANUFACTURER SPECIFICATIONS.
5. PIPE EMBEDMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH GDOT STANDARD DETAIL NUMBER 1030P FOR CIRCULAR CULVERTS AND 2530P FOR BOX CULVERTS AND MINIMUM TRENCH WIDTHS IDENTIFIED IN COLUMN M OF STORMWATER PIPE DETAIL TABLE.
6. DOWNGRADIENT PORTIONS OF STORMWATER CHANNELS 203 AND 205 WILL BE LINED WITH N.S.A NO. R-4 GRADED RIPRAP TO PROTECT AGAINST EROSION AND SCOUR NEAR THE CATEGORY I DAM.
7. SAFETY GRATES WILL BE FURNISHED AND INSTALLED AT OUTLET HEADWALLS IN ACCORDANCE WITH GDOT STANDARD DETAIL NUMBER D-5 OR ENGINEER APPROVED EQUIVALENT.
8. EQUIVALENT PIPE MATERIAL MAY BE UTILIZED IF ENGINEER APPROVED. PIPE MATERIAL WILL BE EVALUATED IN THE DETAILED DESIGN.
9. BOTTOMS OF STORMWATER CHANNELS 201, 202, AND 206 WILL BE GRASS-LINED. UPGRADIENT AREAS AND CHANNEL SIDE SLOPES WILL BE LINED WITH 1.50' THICK N.S.A. NO. R-4 GRADED RIPRAP, AS SHOWN ON DRAWING 13.
10. CHANNELS ASSOCIATED WITH THE ACCESS ROADS WILL BE VEE-SHAPED CHANNELS WITH VARYING UPSTREAM INVERT ELEVATIONS, DOWNSTREAM INVERT ELEVATIONS, LENGTHS, AND SLOPES IN ORDER TO TIE INTO THE EXISTING GRADE.

GEORGIA REGISTERED ENGINEER No. 034144 MEHMET ISCIMEN
02/28/2025

Georgia Power

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NOT FOR CONSTRUCTION

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STORMWATER MANAGEMENT SYSTEM DETAILS

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

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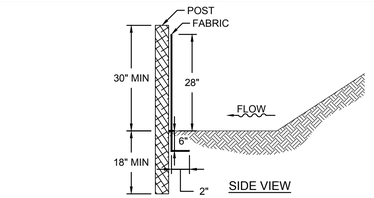
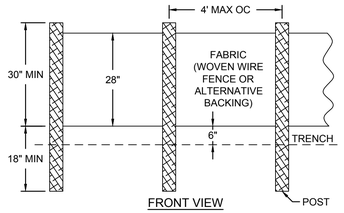
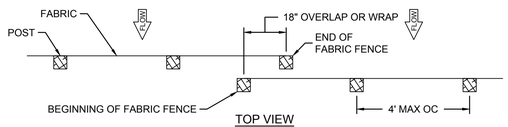


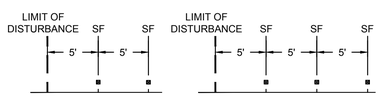
SIDE VIEW



FRONT VIEW



TOP VIEW



SILT FENCE SPACING

CRITERIA FOR SILT FENCE PLACEMENT	
LAND SLOPE (PERCENT)	MAXIMUM LENGTH OF SLOPE ABOVE FENCE (FEET)
<2	100
2 TO 5	75
5 TO 10	50
10 TO 20	25
>20	15

NOTES:

1. FENCE WILL BE MAINTAINED DURING CONSTRUCTION UNTIL FINAL SURFACE TREATMENTS HAVE BEEN APPLIED AND A SUFFICIENT STAND OF GRASS HAS BEEN ESTABLISHED.
2. ADDITIONAL SILT FENCE WILL BE REQUIRED IN AREAS WHICH ARE CLEARED OR GRADED AND DO NOT HAVE STORMWATER RUNOFF DIVERTED TO SEDIMENT BASINS.

INSTALLATION:

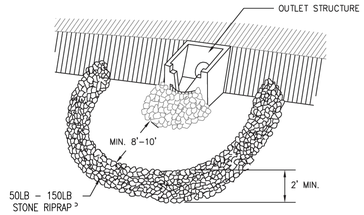
1. WHERE NO SEDIMENT TRAP/STORMWATER DISPOSAL SYSTEM IS PRESENT, MAXIMUM SLOPE LENGTH WILL NOT EXCEED THAT IN THE TABLE. THE DRAINAGE AREA WILL NOT EXCEED 1/4 ACRE PER 100 FEET OF SILT FENCE.
2. INSTALL ALONG CONTOURS TO THE EXTENT POSSIBLE WITH ENDS POINTING UPHILL.
3. DO NOT PLACE IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.
4. AT LOW POINTS IN THE SEDIMENT BARRIER, PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT BARRIER. ENSURE THAT THE MAXIMUM HEIGHT OF THE BARRIER AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FT.
5. POSTS WILL BE STEEL AND HAVE A MINIMUM LENGTH OF 4 FEET. POSTS WILL BE "U", "T", OR "C" SHAPED AND HAVE A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT. THE POSTS WILL HAVE PROJECTIONS FOR FASTENING THE WOVEN WIRE AND FILTER FABRIC. MAXIMUM POST SPACING WILL BE 4 FEET FOR TYPE C.
6. SAFETY CAPS ARE REQUIRED FOR ALL STEEL POSTS.
7. A WOVEN WIRE SUPPORT FENCE WILL BE USED WITH TYPE "C" FENCE. THE WIRE FENCE FABRIC WILL BE AT LEAST 36 INCHES HIGH AND WILL HAVE AT LEAST 6 HORIZONTAL WIRES. VERTICAL WIRES WILL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES WILL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES WILL BE AT LEAST 12 1/2 GAUGE.
8. APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36).

MAINTENANCE:

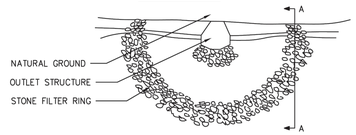
1. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
2. SILT FENCES SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE PRODUCT IS REDUCED (~ 6 MONTHS) OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF ITS PROPERLY INSTALLED HEIGHT.
3. ALL SEDIMENT ACCUMULATED AT THE SILT FENCE SHALL BE REMOVED AND DISPOSED OF BEFORE THE SILT FENCE IS REMOVED.

Sd1-S 8/13 DETAIL
SILT FENCE - TYPE SENSITIVE
SCALE: NTS
SOURCE: GSWCC

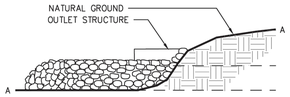
PERSPECTIVE VIEW



PLAN VIEW



CROSS SECTION

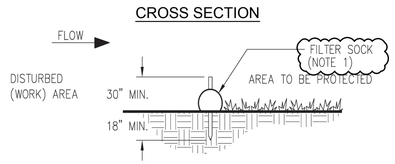


MAINTENANCE:

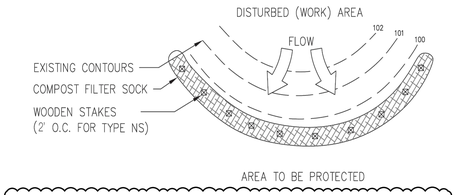
1. KEEP CLEAR OF TRASH AND DEBRIS.
2. CONTINUOUSLY MONITOR AND MAINTAIN THE STRUCTURE.
3. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF FULL.
4. REMOVE STRUCTURE WHEN THE PROJECT HAS REACHED FINAL STABILIZATION.

Fr 11/13 DETAIL
FILTER RING
SCALE: NTS
SOURCE: GSWCC

CROSS SECTION



PLAN VIEW



NOTES:

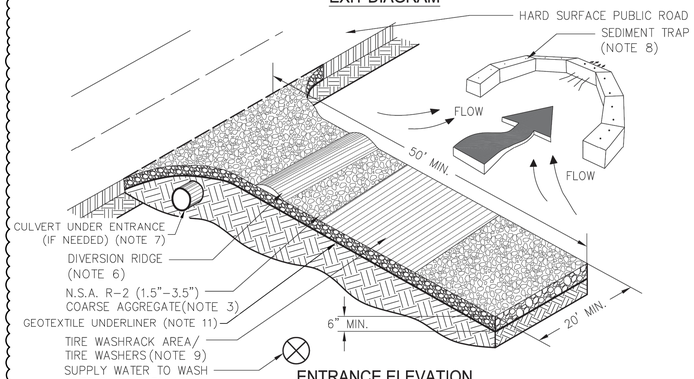
1. FILTER SOCK SHALL MEET DESIGN CRITERIA IDENTIFIED WITHIN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GSWCC). THE MINIMUM DIAMETER SHALL BE 18".

MAINTENANCE:

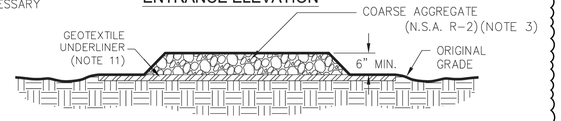
1. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
2. FILTER SOCK SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE PRODUCT IS REDUCED (~ 6 MONTHS) OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF ITS PROPERLY INSTALLED HEIGHT.
3. ALL SEDIMENT ACCUMULATED AT THE FILTER SOCK SHALL BE REMOVED AND DISPOSED OF BEFORE THE FILTER SOCK IS REMOVED.

Sd1-NS 10/13 DETAIL
FILTER SOCK
SCALE: NTS
SOURCE: GSWCC

EXIT DIAGRAM



ENTRANCE ELEVATION

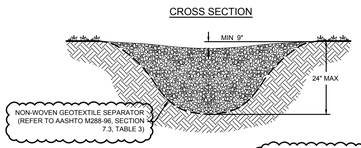


NOTES:

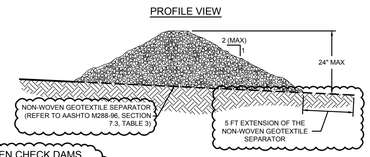
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL TO 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.
11. GEOTEXTILE UNDERLINER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288-06 SECTION 7.3, SEPARATION REQUIREMENTS.

Co 11/13 DETAIL
CONSTRUCTION EXIT
SCALE: NTS
SOURCE: GSWCC

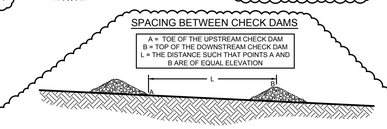
CROSS SECTION



PROFILE VIEW



SPACING BETWEEN CHECK DAMS



NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS OR FLOW PATHS. (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. CHECK DAMS SHALL BE SPACED SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
4. STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED SIZE 2 TO 10 INCH STONE.
5. PERIODIC INSPECTION AND REQUIRED MAINTENANCE OF CHECK DAMS MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

Cd-S 12/13 DETAIL
STONE CHECK DAM
SCALE: NTS
SOURCE: GSWCC

GEORGIA REGISTERED No. 33466 PROFESSIONAL ENGINEER MEHMET ISCIMEN
02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

EROSION AND SEDIMENT CONTROL DETAILS

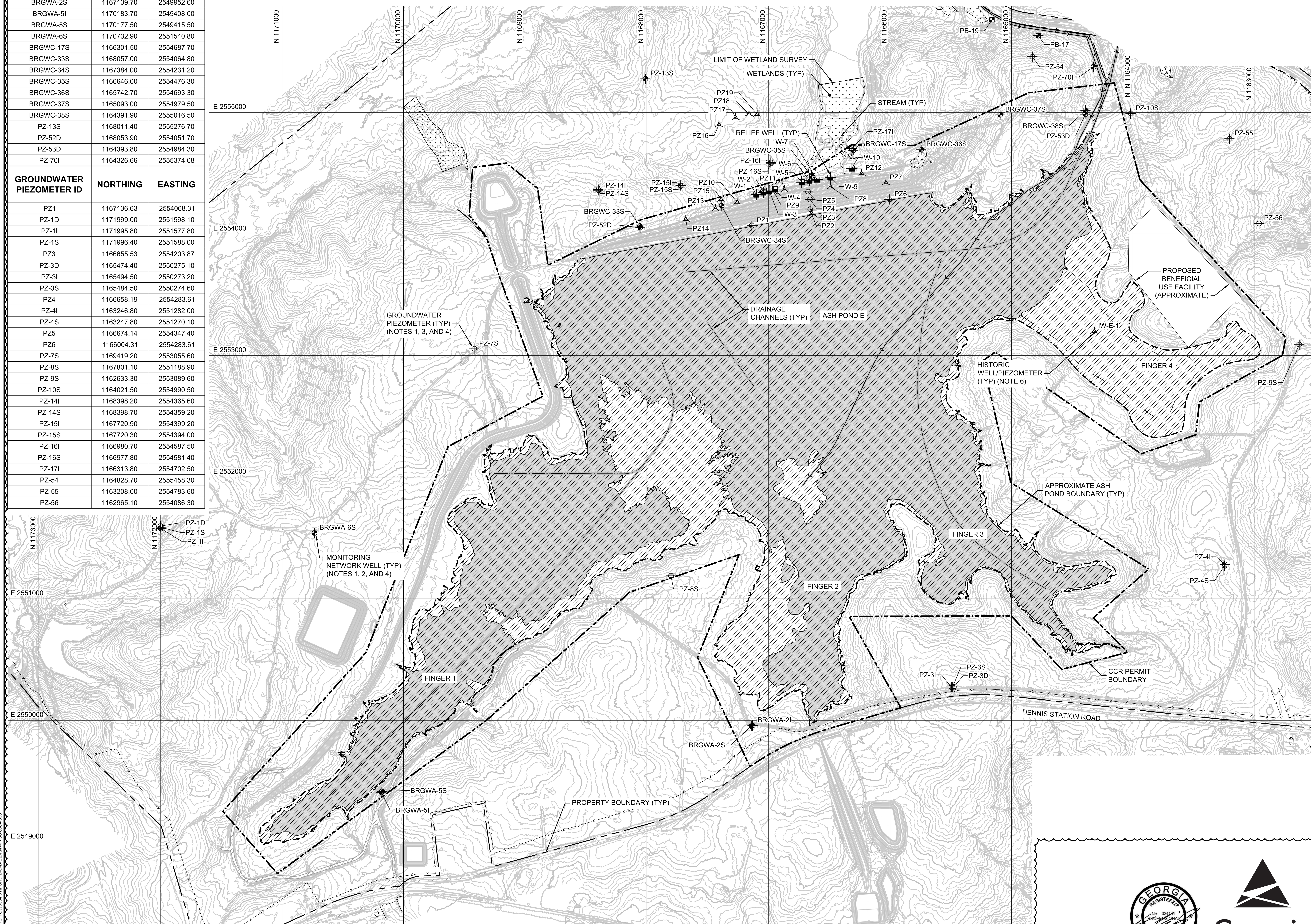
PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GW6364	DWG.	6364-034	EDIT	02.28.2025
SCALE	AS SHOWN	DRAWING	15	OF	16
DATE	FEBRUARY 2025				

L:\ADD\GS\GEORGIA POWER\PLANT BRANCH GW6364.01\POND B-C-D-E\DRAWINGS\6364-034

MONITORING NETWORK WELLS AND GROUNDWATER PIEZOMETERS		
MONITORING NETWORK WELL ID	NORTHING	EASTING
BRGWA-2I	1167130.00	2549957.30
BRGWA-2S	1167139.70	2549952.60
BRGWA-5I	1170183.70	2549408.00
BRGWA-5S	1170177.50	2549415.50
BRGWA-6S	1170732.90	2551540.80
BRGWC-17S	1166301.50	2554687.70
BRGWC-33S	1168057.00	2554064.80
BRGWC-34S	1167384.00	2554231.20
BRGWC-35S	1166646.00	2554476.30
BRGWC-36S	1165742.70	2554693.30
BRGWC-37S	1165093.00	2554979.50
BRGWC-38S	1164391.90	2555016.50
PZ-13S	1168011.40	2555276.70
PZ-52D	1168053.90	2554051.70
PZ-53D	1164393.80	2554984.30
PZ-70I	1164326.66	2555374.08
GROUNDWATER PIEZOMETER ID	NORTHING	EASTING
PZ1	1167136.63	2554068.31
PZ-1D	1171999.00	2551598.10
PZ-1I	1171995.80	2551577.80
PZ-1S	1171996.40	2551588.00
PZ3	1166655.53	2554203.87
PZ-3D	1165474.40	2550275.10
PZ-3I	1165494.50	2550273.20
PZ-3S	1165484.50	2550274.60
PZ4	1166658.19	2554283.61
PZ-4I	1163246.80	2551282.00
PZ-4S	1163247.80	2551270.10
PZ5	1166674.14	2554347.40
PZ6	1166004.31	2554283.61
PZ-7S	1169419.20	2553055.60
PZ-8S	1167801.10	2551188.90
PZ-9S	1162633.30	2553089.60
PZ-10S	1164021.50	2554990.50
PZ-14I	1168398.20	2554365.60
PZ-14S	1168398.70	2554359.20
PZ-15I	1167720.90	2554399.20
PZ-15S	1167720.30	2554394.00
PZ-16I	1166980.70	2554587.50
PZ-16S	1166977.80	2554581.40
PZ-17I	1166313.80	2554702.50
PZ-54	1164828.70	2555458.30
PZ-55	1163208.00	2554783.60
PZ-56	1162965.10	2554086.30



HISTORICAL WELLS AND TEMPORARY WELLS		
HISTORICAL WELLS	NORTHING	EASTING
IW-E-1	1164319.41	2553199.72
PZ2	1166644.90	2554169.32
PZ7	1166033.55	2554421.83
PZ8	1166488.07	2554387.27
PZ9	1166955.89	2554347.40
PZ10	1167256.24	2554262.35
PZ11	1166868.17	2554363.35
PZ12	1166232.90	2554498.91
PZ13	1167434.33	2554206.53
PZ14	1167678.87	2554121.47
PZ15	1167389.14	2554286.27
PZ16	1167406.42	2554899.06
PZ17	1167268.50	2554956.58
PZ18	1167159.31	2554988.21
PZ19	1167091.78	2554985.34
TEMPORARY WELLS	NORTHING	EASTING
PB-17	1164781.39	2555630.85
PB-19	1165160.95	2555760.32

LEGEND

EXISTING CCR AREA

FREE WATER SURFACE WITHIN LIMITS OF ASH POND

NOTES:

1. MONITORING NETWORK WELLS, GROUNDWATER PIEZOMETERS, AND TEMPORARY PIEZOMETERS COORDINATES AND ELEVATIONS WERE OBTAINED FROM SURVEYS CONDUCTED BY METRO ENGINEERING & SURVEYING CO., INC. AND DATED 23 JULY 2020. COORDINATES AND ELEVATIONS OF TEMPORARY PIEZOMETERS PB-17 AND PB-19 WERE BASED ON SURVEYS PERFORMED ON 22 SEPTEMBER 2021 BY SCS. COORDINATE AND ELEVATION OF PZ-70I WAS BASED ON SURVEY PERFORMED ON 26 SEPTEMBER 2022 BY GEL ENGINEERING OF NC, INC.
2. MONITORING WELLS ARE SCREENED IN THE SAPROLITE, PARTIALLY WEATHERED ROCK, AND/OR BEDROCK UNITS TO TARGET THE PRIMARY ZONE OF GROUNDWATER FLOW IN THE UPPERMOST AQUIFER.
3. GROUNDWATER PIEZOMETERS ARE MEASURED SITE-WIDE TO EVALUATE WATER LEVELS, HOWEVER THE EXTENT OF THIS DRAWING ONLY SHOWS WELLS AND PIEZOMETERS IN THE VICINITY OF AP-E.
4. MONITORING NETWORK WELLS ARE USED TO COLLECT ANALYTICAL SAMPLES AND MEASURE GROUNDWATER LEVELS WHEREAS GROUNDWATER PIEZOMETERS ARE ONLY USED TO MEASURE GROUNDWATER LEVELS.
5. THE LIST OF DETECTION MONITORING WELLS AND ASSESSMENT MONITORING WELLS ARE PROVIDED IN "GROUNDWATER MONITORING PLAN, ASH POND E PLANT BRANCH PUTNAM COUNTY, GEORGIA" PREPARED BY GEOSYNTEC CONSULTANTS, ACCOMPANYING THIS PERMIT APPLICATION.
6. LOCATIONS OF HISTORICAL WELLS AND PIEZOMETERS WERE APPROXIMATED FROM THE "PLANT BRANCH CCR SURFACE IMPOUNDMENT PIPE AND PENETRATION REPORT" PREPARED BY SOUTHERN COMPANY SERVICES (SCS), DATED 23 JANUARY 2018, ELECTRONIC FILES WERE PROVIDED BY SCS TITLED "SEPT 2020 AERIAL IMAGERY" AND "BRANCH LAND FILL TOPO" DATED 24 JUNE 2021, AND HISTORICAL DOCUMENTS WERE PROVIDED BY SCS. THESE WELLS AND PIEZOMETERS ARE PROPOSED TO BE ABANDONED DURING CLOSURE ACTIVITIES.

0 400 800
SCALE IN FEET

02/28/2025

Georgia Power

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP
0	02.28.25	PERMIT DRAWINGS FOR GA EPD SUBMITTAL	JHS	MI

ENVIRONMENTAL MANAGEMENT PLAN

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES
ASH POND E CLOSURE-BY-REMOVAL
PUTNAM COUNTY, GEORGIA

Geosyntec consultants
1255 ROBERTS BOULEVARD NW, SUITE 200
KENNESAW, GEORGIA 30144-3694
GEORGIA CERTIFICATE OF AUTHORIZATION (COA) NO. PEF000260, EXP. 06/30/2026
PHONE: 678.202.9500
WWW.GEOSYNTEC.COM

PROJ. NO.	GW6364	DWG.	6364-038
SCALE	AS SHOWN	EDIT	02.28.2025
DATE	FEBRUARY 2025	DRAWING 16 OF 16	