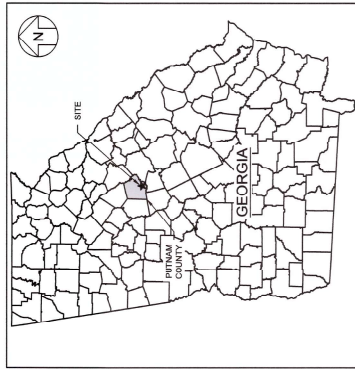
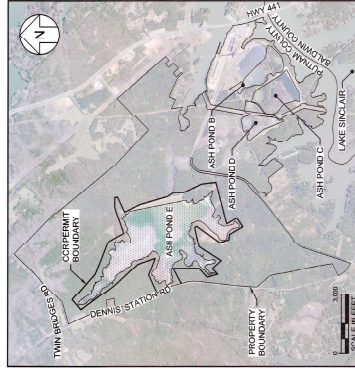


# PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES ASH POND E CLOSURE-BY-REMOVAL PUTNAM COUNTY, GEORGIA

PERMIT DRAWINGS  
NOVEMBER 2018



DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	LEGENDS, ABBREVIATIONS AND REFERENCE 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	WATER MANAGEMENT SYSTEM PLAN
13	STORMWATER MANAGEMENT SYSTEM DETAILS
14	EROSION AND SEDIMENT CONTROL DETAILS
15	



PREPARED FOR:



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

PREPARED BY:



1255 ROBERTS BOULEVARD NW, SUITE 200  
KENNESAW, GEORGIA 30144  
678.202.9500

REV	DATE	PERMIT DRAWING/DESCRIPTION	DESIGNER	CHECKER	APP.
0	11/15/18	COVER SHEET			

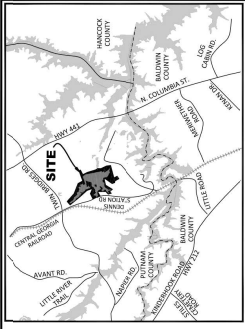
PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES ASH POND E CLOSURE-BY-REMOVAL PUTNAM COUNTY, GEORGIA	
<b>Geosyntec</b> consultants	
1255 ROBERTS BOULEVARD NW, SUITE 200 KENNESAW, GEORGIA 30144-3094	PHONE: 678.202.9500 WWW.GEOSYNTEC.COM
PROJECT NO.: GW05254	DWG. #: 694-001
SCALE: AS SHOWN	DATE: NOVEMBER 2018
DRAWING 1 OF 15	



11/15/2018  
PERMIT DRAWINGS  
NOT FOR CONSTRUCTION



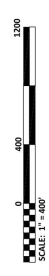




VICINITY MAP - NOT TO SCALE

**SUBJECT PROPERTY INFORMATION**

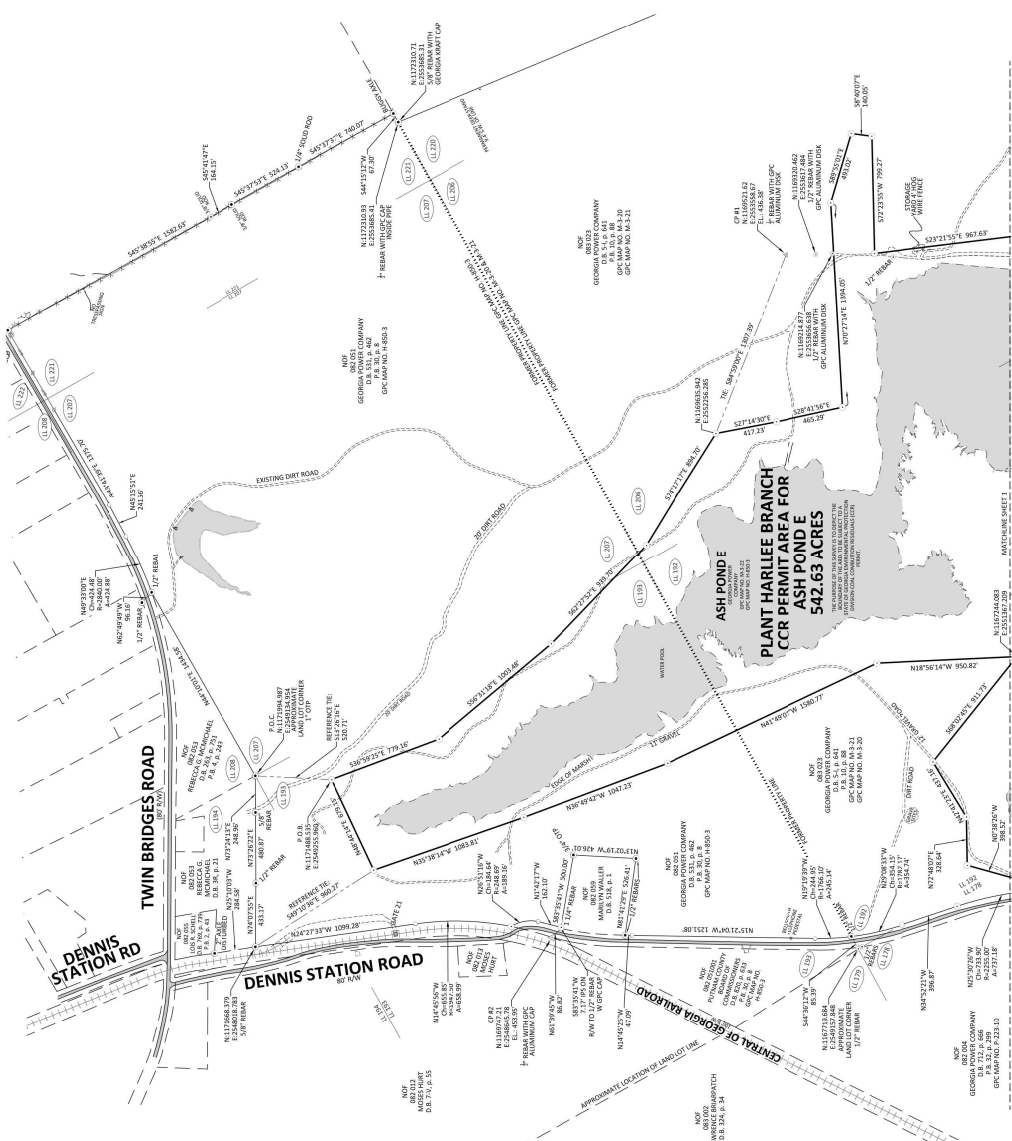
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TAX MAP NO.:	081023	TAX MAP NO.:	081023
OWNER:	GEORGIA POWER COMPANY	OWNER:	GEORGIA POWER COMPANY
DEED REFERENCE:	P.B. 31, P. 46, GPC MAP NO. H-1803.3	DEED REFERENCE:	P.B. 31, P. 46, GPC MAP NO. H-1803.3
PLAT REFERENCE:		PLAT REFERENCE:	
TAX PARCEL:	081023	TAX PARCEL:	081023
TAX MAP NO.:	081023	TAX MAP NO.:	081023
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DEED REFERENCE:	P.B. 31, P. 46, GPC MAP NO. H-1803.3	DEED REFERENCE:	P.B. 31, P. 46, GPC MAP NO. H-1803.3
PLAT REFERENCE:		PLAT REFERENCE:	



SCALE: 1" = 400'

Georgia Power Company  
 PROPERTY BOUNDARY SURVEY  
 PLANT HARLEE BRANCH  
 ASH POND E - PROPOSED CCR PERMIT BOUNDARY  
 LAND (0.74 ACRES), 312, 6, 0.10, 2025-07

DATE: 08/10/18  
 SHEET NUMBER: P466-8  
 SHEET NUMBER: 2 OF 2



**PROFESSIONAL OFFICE USE**

DATE: 08/10/18  
 SHEET NUMBER: P466-8  
 SHEET NUMBER: 2 OF 2

**PROFESSIONAL OFFICE USE**

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 SHEET NUMBER: P466-8  
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**PROFESSIONAL OFFICE USE**

DATE: 08/10/18  
 SHEET NUMBER: P466-8  
 SHEET NUMBER: 2 OF 2











REV	DATE	DESCRIPTION	BY	APP
0	11.08.18	PERMIT DRAWING FOR CCR REMOVAL	JANSEN	MP

**CCR REMOVAL PLAN**

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

**Geosyntec<sup>®</sup>**  
consultants

PROJECT NO. 11-3007  
SCALE 1" = 300'  
DATE NOVEMBER 2018

ISSUED BY: GEORGIA POWER  
PROJECT NO. 11-3007  
SCALE 1" = 300'  
DATE NOVEMBER 2018

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PROJECT NO. 11-3007  
SCALE 1" = 300'  
DATE NOVEMBER 2018

- NOTES**
- EXCAVATION GRADES SHOWN ON THIS DRAWING DEPICT REMOVAL OF 6 INCHES OF FOUNDATION SOIL BELOW THE ESTABLISHED BOTTOM OF CCR BUNDLES SHOWN. REMOVAL OF CCR AND AN ADDITIONAL 6 INCHES OF THE FOUNDATION SOIL WILL BE REQUIRED TO PROVIDE THE NECESSARY STABILITY FOR THE CONSTRUCTION OF A QUALITY INSURANCE CHAIN ACCORDING TO THE PERMIT APPLICATION.
  - STORMWATER DIVERSIONS SHALL BE INSTALLED AT THE EXISTING GRADES AND PRESENT AT A 2-FOOT INTERVAL FOR CLARITY.
  - IF AN ACCESS ROAD IS WITHIN THE ASH POND BOUNDARY, IT WILL BE REMOVED AND RELOCATED TO REMOVE CCR PRESENT BENEATH IT AND TO ACCOMMODATE THE RESTORATION GRADES.
  - GRADING REQUIREMENTS FOR THE SLOPES TO MAINTAIN STABILITY ACTIVITIES WILL BE ESTABLISHED AS PART OF THE CONSTRUCTION DRAWINGS.
  - STORMWATER DIVERSIONS SHALL BE INSTALLED WITH THE FOLLOWING DIMENSIONS, CHANNELS, AND OUTLET PROTECTION AS SHOWN ON DRAWING 10.
  - IF A STORMWATER DIVERSION IS WITHIN THE APPROXIMATE ASH POND BOUNDARY, THE CCR WITHIN THIS AREA WILL BE REMOVED TO ACCOMMODATE THE PAUL GRADES. EXISTING THE DRAIN COLLECTION SYSTEM SHALL BE REMOVED AND RELOCATED TO MAINTAIN THE DRAINAGE SYSTEM AS SHOWN ON DRAWING 10.
  - CONTACT WATER FROM ASH POND B WILL EITHER BE DIVERTED TO WITHIN THE LIMIT OF ASH POND B AND THEN CONVEYED TO AN ON-SITE WAYS OR DIRECTLY TO THE LIQUID STORAGE UNIT CONNECTED BETWEEN ASH POND B AND THE WAYS. MAY BE UTILIZED TO PROVIDE ADDITIONAL STORAGE CAPACITY TO ASH POND B BEFORE DISCHARGED TO LAKE SINGLAR VIA PIPE OUTFALL NUMBER 03. DIVERTED NON-CONTACT STORMWATER WILL BE DISCHARGED TO RECEIVING WATER BODIES WITHOUT TREATMENT.
  - A TABLE DETAILING THE PROPOSED DISPOSITION OF ASH POND INFRASTRUCTURE IS LOCATED IN THE CLOSURE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
  - GEORGIA POWER COMPANY WILL PROVIDE NOTIFICATION AND NECESSARY DESIGN MODIFICATION TO ASH POND EMERGENCY SPILLWAY.

SCALE IN FEET: 0, 300, 600

DEWING STATION ROAD

PROPERTY BOUNDARY (TYP)

WETLANDS (TYP)

STREAM (TYP)

RELIEF WELL (TYP) (NOTE 8)

HISTORICAL WELL PNEUMETER (TYP) (NOTE 5)

GROUNDWATER PNEUMETER (TYP)

MONITORING NETWORK WELL (TYP)

CATEGORY DAM (NOTE 7)

OUTLET PROTECTION (NOTE 5)

ACCESS ROAD (TYP) (NOTE 3)

POWER POLE (TYP)

GAUGING (TYP)

EXISTING ASH POND 1 OUTLET STRUCTURE

MODIFICATION TO ASH POND 1 EMERGENCY SPILLWAY (NOTE 6)

LIMIT OF WETLAND SURVEY

CCR REMOVAL PLAN

PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES

ASH POND E CLOSURE BY REMOVAL

PUTNAM COUNTY, GEORGIA

Geosyntec<sup>®</sup> consultants

PROJECT NO. 11-3007

SCALE 1" = 300'

DATE NOVEMBER 2018

ISSUED BY: GEORGIA POWER

PROJECT NO. 11-3007

SCALE 1" = 300'

DATE NOVEMBER 2018

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DATE NOVEMBER 2018

PROJECT NO. 11-3007

SCALE 1" =





**NOTES**

- ASH POND WILL BE RESTORED UPON COMPLETION OF CCR EVACUATION TO INCLUDE BREACHING INTERIM FINGER 1 AND FINGER 2 DIKES, REMOVAL OF INTERIM INFRASTRUCTURE, AND RESTORATION OF EXISTING AND NEW RESTORATION GRADES AND IMPLEMENTATION OF NEW RESTORATION GRADES. NEW RESTORATION GRADES AND THE FILLING OF STORMWATER DIVERSIONS WILL BE ACHIEVED USING EARTHEN FILL, FINGER 2 DIKE, AND THE REMOVAL OF INTERIM FINGER 2 DIKE. RESTORED AREAS ACHIEVED IN THESE AREAS.
- ASH POND EARTHEN FILL, RESTORATION GRADES, EXCAVATION GRADES, AND SURFACE GRADES ARE PRESENTED AT 2'-0" INTERVALS FOR CLARITY.
- ACCESS ROADS, ACCESS DAMS, AND ASSOCIATED STORMWATER FEATURES WILL BE EVALUATED AS PART OF THE CONSTRUCTION DRAWINGS.
- STORMWATER FEATURES (EARTHEN FILL, STORMWATER DIVERSIONS, CHANNELS, AND OUTLET PROTECTION) ARE SHOWN ON DRAWINGS IN THIS DRAWING PRESENTS THE FINAL CONFIGURATION OF STORMWATER DIVERSIONS AND CHANNELS.
- ADDITIONAL STORMWATER FEATURES (E.G. BERMS, CHANNELS, BENCHES, EARTHEN FILL, AND EARTHEN FILL) ARE SHOWN ON DRAWINGS IN THIS DRAWING AND SHALL BE IMPLEMENTED FOR THE CONSTRUCTION AND POST CONSTRUCTION SITE CONDITIONS. THE FEATURES AND CONTROLS WILL BE PRESENTED IN THE CONSTRUCTION DRAWINGS.
- MINOR EARTHWORK ACTIVITY MAY BE PERFORMED IN LOCALIZED LOW OR STEEP SLOPES TO PROMOTE POST CONSTRUCTION AND MINIMIZE EROSION.
- A TABLE DETAILING THE PROPOSED DISPOSITION OF ASH POND INFRASTRUCTURE IS LOCATED IN THE CLOSURE PLAN ACCOMPANYING THIS PERMIT APPLICATION.
- GEORGIA POWER COMPANY WILL PROVIDE NOTIFICATION AND NECESSARY DESIGN DOCUMENTS TO GEORGIA BAY DAMS PROGRAM AT LEAST ONE YEAR PRIOR TO BEGINNING THE CATEGORY 1 PLAN.

REV	DATE	DESCRIPTION	BY	APP
1	11.09.18	PERMIT DRAWING FOR CATEGORY 1	JAVIER	APP

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

**Geosyntec**  
 consultants

1400 W. PARKWAY, SUITE 200  
 KENNESAW, GEORGIA 30144-2994  
 PHONE: 478.222.2000  
 WWW.GEOSYNTEC.COM

PROJ. NO. GWSR58  
 DWG. 684-006  
 SCALE: 1" = 300'  
 DATE: NOVEMBER 2018

PERMIT DRAWINGS  
 NOT FOR CONSTRUCTION

11/13/2018

DRAWING 7 OF 15



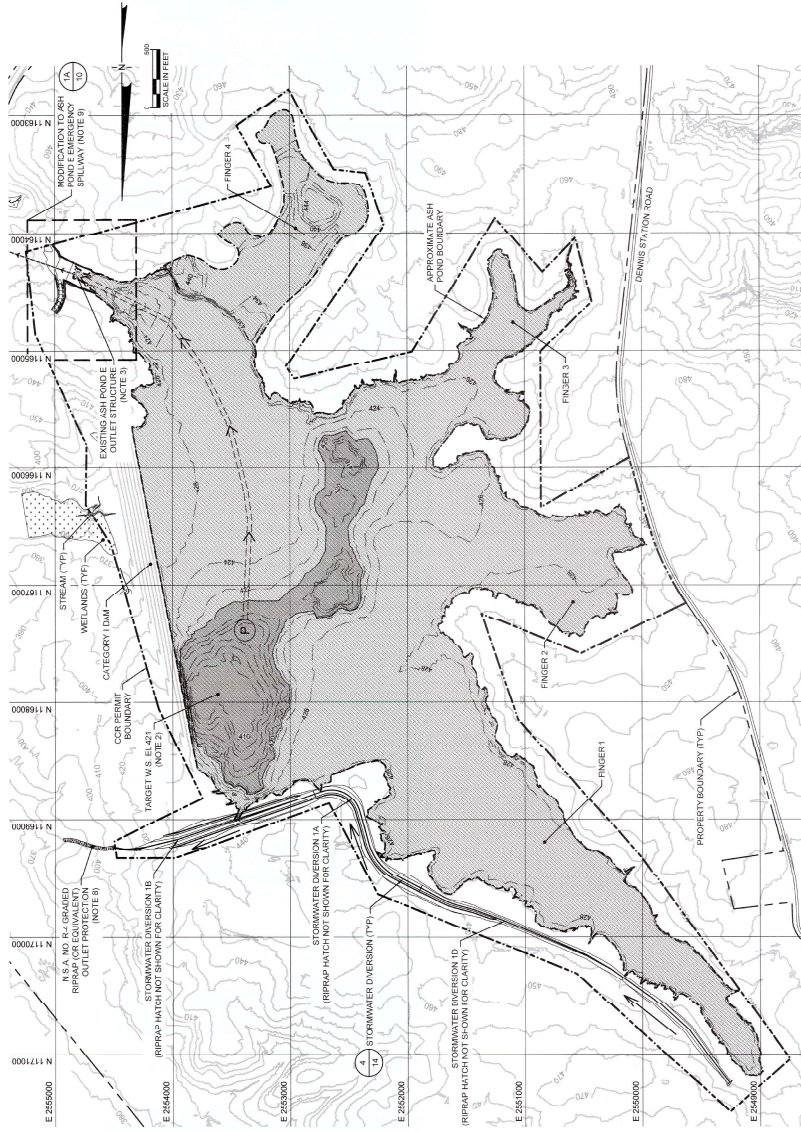






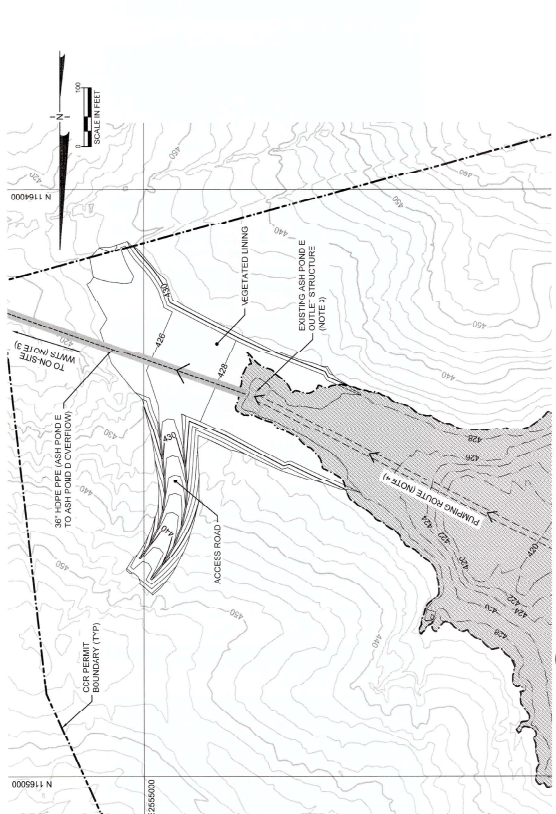






1  
PLAN  
PHASE I  
(NOTES 2 AND 3)  
SCALE: 1" = 50'

- NOTES:
1. DETAILS PRESENTED IN THIS DRAWING SET HAVE BEEN DESIGNED TO ADDRESS REMOVAL OF CCR FROM THE FINERS AND MAIN BODY OF ASH POND E, WHILE ACHIEVING COMPLIANCE WITH DESIGN CRITERIA RELATED TO STORMWATER AND GRADING. THE DESIGN CRITERIA FOR GRADING SHALL BE AS FOLLOWS: (I) GRADING SHALL BE ADJUSTED AS NECESSARY, BASED ON APPROVAL FROM THE ENGINEER OF RECORD, TO MAINTAIN THE DESIGN CRITERIA CONTAINED IN THE DESIGN RULES FOR DAM SAFETY AND 3A EPO STATE CCR RULE.
  2. PLAN 1 PRESENTS A SNAPSHOT OF THE SITE CONDITION UPON COMPLETION OF PHASE I. IN THIS PHASE (I) A STORMWATER DIVERSION TO THE NORTH OF ASH POND E (STORMWATER DIVERSION 1A) SHALL BE INSTALLED TO DIVERT STORMWATER FROM POND E. (II) THE ASH POND E SPILLWAY GRADING SHALL BE MODIFIED, AND (III) THE SPILLWAY SHALL BE INSTALLED TO MAINTAIN THE DESIGN CRITERIA FOR DAM SAFETY AND 3A EPO STATE CCR RULE.
  3. CONTACT WATER FROM ASH POND E SHALL BE DISCHARGED TO THE LIMIT OF RECEIVING WATER BODIES IN ACCORDANCE WITH THE DESIGN CRITERIA FOR DAM SAFETY AND 3A EPO STATE CCR RULE. CONTACT WATER FROM ASH POND E SHALL BE DISCHARGED TO THE LIMIT OF RECEIVING WATER BODIES IN ACCORDANCE WITH THE DESIGN CRITERIA FOR DAM SAFETY AND 3A EPO STATE CCR RULE. CONTACT WATER FROM ASH POND E SHALL BE DISCHARGED TO THE LIMIT OF RECEIVING WATER BODIES IN ACCORDANCE WITH THE DESIGN CRITERIA FOR DAM SAFETY AND 3A EPO STATE CCR RULE. CONTACT WATER FROM ASH POND E SHALL BE DISCHARGED TO THE LIMIT OF RECEIVING WATER BODIES IN ACCORDANCE WITH THE DESIGN CRITERIA FOR DAM SAFETY AND 3A EPO STATE CCR RULE.
  4. PUMPING ROUTES SHOWN ON THIS DRAWING ARE ILLUSTRATIVE AND NOT REPRESENTATIVE OF ACTUAL PUMP LOCATIONS AND ASSOCIATED PUMPING ROUTES.
  5. FLOW DIRECTION ARROWS ON STORMWATER DIVERSIONS HAVE BEEN OFFSET FROM THE STORMWATER DIVERSION GRADINGS FOR CLARITY.
  6. ON PLAN 1, SPILLWAY GRADING AND BATHYMETRIC GRACES ARE PRESENTED AT 10-FOOT INTERVALS FOR CLARITY. ON PLAN 1A, SPILLWAY GRADING, EXISTING GROUND, AND BATHYMETRIC SURFACE GRACES ARE PRESENTED AT 2-FOOT INTERVALS FOR CLARITY.
  7. N.S. A NO. 8-4 GRADED RIRRAP OR EQUIVALENT OUTLET PROTECTION WILL BE INSTALLED TO EXTEND FROM THE END OF STORMWATER DIVERSION 1B TO THE EAST OF ASH POND E. THE GRADING SHALL BE INSTALLED TO MAINTAIN THE DESIGN CRITERIA FOR DAM SAFETY AND 3A EPO STATE CCR RULE.
  8. GEORGIA POWER COMPANY WILL PROVIDE NOTIFICATION AND NECESSARY DESIGN MODIFICATION TO ASH POND E EMERGENCY SPILLWAY.



1A  
10  
PLAN  
MODIFICATION TO ASH POND E EMERGENCY SPILLWAY  
(NOTES 7 AND 8)  
SCALE: 1" = 10'

- LEGEND
- EXPOSED CCR AREA
  - FREE WATER SURFACE (NOTE 7)
  - PUMPING ROUTES (NOTES 3 AND 4)
  - STORMWATER FLOW DIRECTION (NOTE 5)

REV	DATE	DESCRIPTION	DESIGNER	CHECKER	APP'D
1	11.08.18	PERMIT DRAWING FOR CCR EPO SUBMITTAL	JASPER	DAVE	JDP

PHASING PLANS I	
PLANT BRANCH CCR SURFACE IMPOUNDMENT CLOSURES	
ASH FONDE CLOSURE-BY-REMOVAL	
PULASKI COUNTY, GEORGIA	

PROJECT NO.	GW5934
DATE	AS SHOWN
SCALE	AS SHOWN
DATE	NOVEMBER 2018

PHONE: 478.202.2600	WWW.GEOSYMETEC.COM
REGISTERED PROFESSIONAL ENGINEER	STATE: GA
REGISTERED: GEORGIA, 16144-0394	

REV.	DATE	DESCRIPTION	DESIGNER	CHECKER	APP'D
1	11.08.18	PERMIT DRAWING FOR CCR EPO SUBMITTAL	JASPER	DAVE	JDP



11/13/2018  
PERMIT DRAWINGS  
NOT FOR CONSTRUCTION









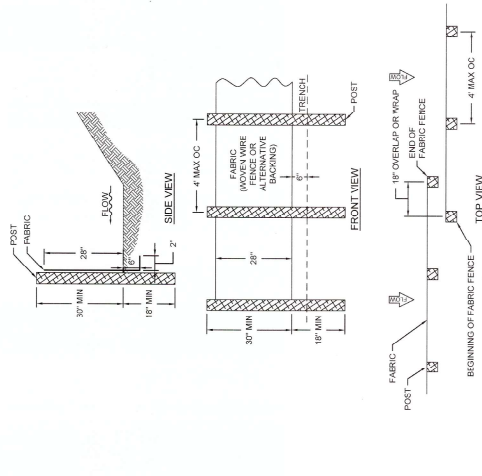








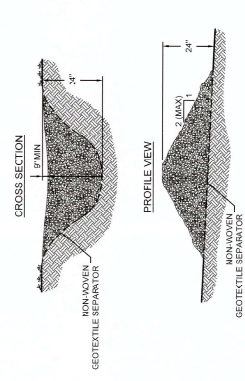




CRITERIA FOR SILT FENCE PLACEMENT	
LAND SLOPE (PERCENT)	MINIMUM LENGTH OF SLOPE (FEET)
< 2	100
2 - 5	50
6 - 10	25
11 TO 20	15
> 20	10

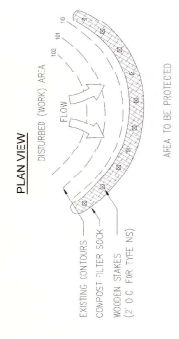
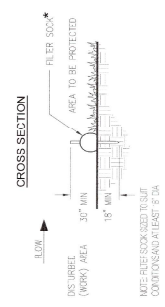
- SILT FENCE NOTES:**
1. FENCE MUST BE MAINTAINED DURING CONSTRUCTION UNTIL FINAL SURFACE TREATMENTS HAVE BEEN APPLIED AND A SUFFICIENT STAND OF GRASS HAS BEEN ESTABLISHED.
  2. FENCE MUST BE INSTALLED AT THE TOP OF THE SLOPE AND NOT ON A GRASSY AREA. DO NOT HAVE STORMWATER RUNOFF DIVERTED TO SEDIMENT BASINS.
- INSTALLATION:**
1. WHERE THE SEDIMENT TRAP-TO-WATER DISPOSAL SYSTEM IS PRESENT, MAXIMUM SLOPE IS 4% FOR 100 FEET OF SILT FENCE.
  2. INSTALL ALONG CONTOURS WITH ENDS POINTING UPHILL.
  3. PROVIDE A RIPPED SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT FENCE. ENSURE THAT THE MAXIMUM HEIGHT OF THE SPLASH PAD DOES NOT EXCEED 4 FT FOR TYPE C.
  4. POST SPACING DOES NOT EXCEED 4 FT FOR TYPE C.
  5. S-SHAPE AND HAVE A MINIMUM WEIGHT OF 1.5 POUNDS PER FOOT. THE POSTS WILL HAVE PROJECTIONS FOR FASTENING THE WOVEN WIRE AND FILTER FABRIC. MAXIMUM POSTS PER LINEAR FOOT SHALL BE 1.5.
  6. SAFETY CAPS ARE REQUIRED FOR ALL STEEL POSTS.
  7. FABRIC MUST BE AT LEAST 36 INCHES WIDE AND WILL HAVE AT LEAST FOUR HORIZONTAL WIRE REINFORCING WIRE PER LINEAR FOOT.
  8. APPROVED SILT FENCE FABRICS ARE LISTED IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #98 (DPL-36).

**8** DETAIL  
**Sd1-S** 13  
 SILT FENCE - TYPE SENSITIVE  
 SCALE: 1/8" = 1'-0"



- NOTES:**
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
  2. CHECK DAMS SHOULD BE SPACED AT LEAST 20 FEET APART.
  3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 18 INCHES FROM THE OUTER EDGES.
  4. THE MAXIMUM HEIGHT OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
  5. THE SIDE SLOPES OF THE CHECK DAM WILL NOT EXCEED A 2:1 SLOPE.
  6. GEOTEXTILE WILL BE USED TO PREVENT THE MIGRATION OF SUBGRADE SOIL THROUGH THE STONE CHECK DAM.
  7. CHECK DAMS SHOULD BE SPACED AT LEAST 20 FEET APART.

**9** DETAIL  
**Sd1-S** 13  
 STONE CHECK DAM  
 SCALE: 1/8" = 1'-0"



- \* FILTER SOCK HEIGHT WILL BE EVALUATED TO MEET DESIGN CRITERIA. IN GEORGIA (SWMCD) ARE PROVIDED WITHIN THE CONSTRUCTION DRAWINGS.**

**10** DETAIL  
**Sd1-S** 13  
 FILTER SOCK  
 SCALE: 1/8" = 1'-0"

REV	DATE	DESCRIPTION	DESIGNER	CHECKER	DATE
1	11.08.18	PERMIT DRAWING FOR GA PERMITS/ATLANTA			

EROSION AND SEDIMENT CONTROL DETAILS

PLANT BRANCH COR SURFACE MOUNDMENT CLOSURES  
 ASH POND E CLOSURE BY-REMOVAL  
 PUTNAM COUNTY, GEORGIA

**Geosymtec<sup>®</sup>**  
 consultants

1250 DORIS BROADWAY NW, SUITE 200  
 KENNESAW, GA 30144  
 PHONE: 678.202.0000  
 FAX: 678.202.0000  
 WWW.GEOSYMETEC.COM

PROJECT NO. GWSB18  
 SCALE: AS SHOWN  
 DATE: NOVEMBER 2018

DWG. GWSB-004  
 EDIT: 11.09.18

DRAWING 15 OF 15

**Georgia Power**

PERMIT DRAWINGS  
 NOT FOR CONSTRUCTION

11/03/2018

Geosymtec<sup>®</sup> consultants