

CLOSURE DRAWINGS
PLANT HAMMOND - GEORGIA POWER
ASH POND 1 (AP-1)
EXISTING CCR SURFACE IMPOUNDMENT
FLOYD COUNTY, GEORGIA

PREPARED FOR
GEORGIA POWER
PREPARED BY

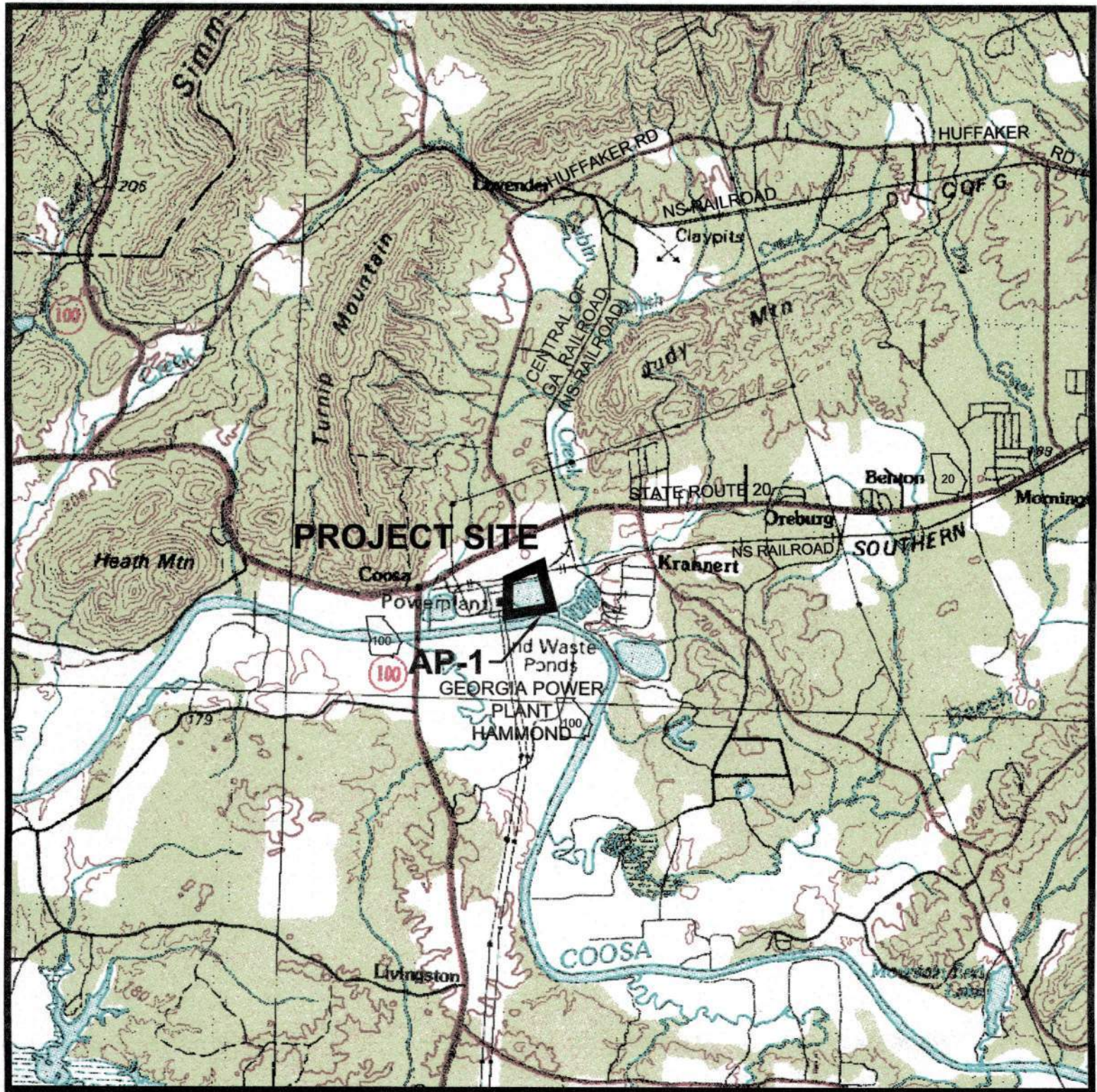


INDEX OF SHEETS

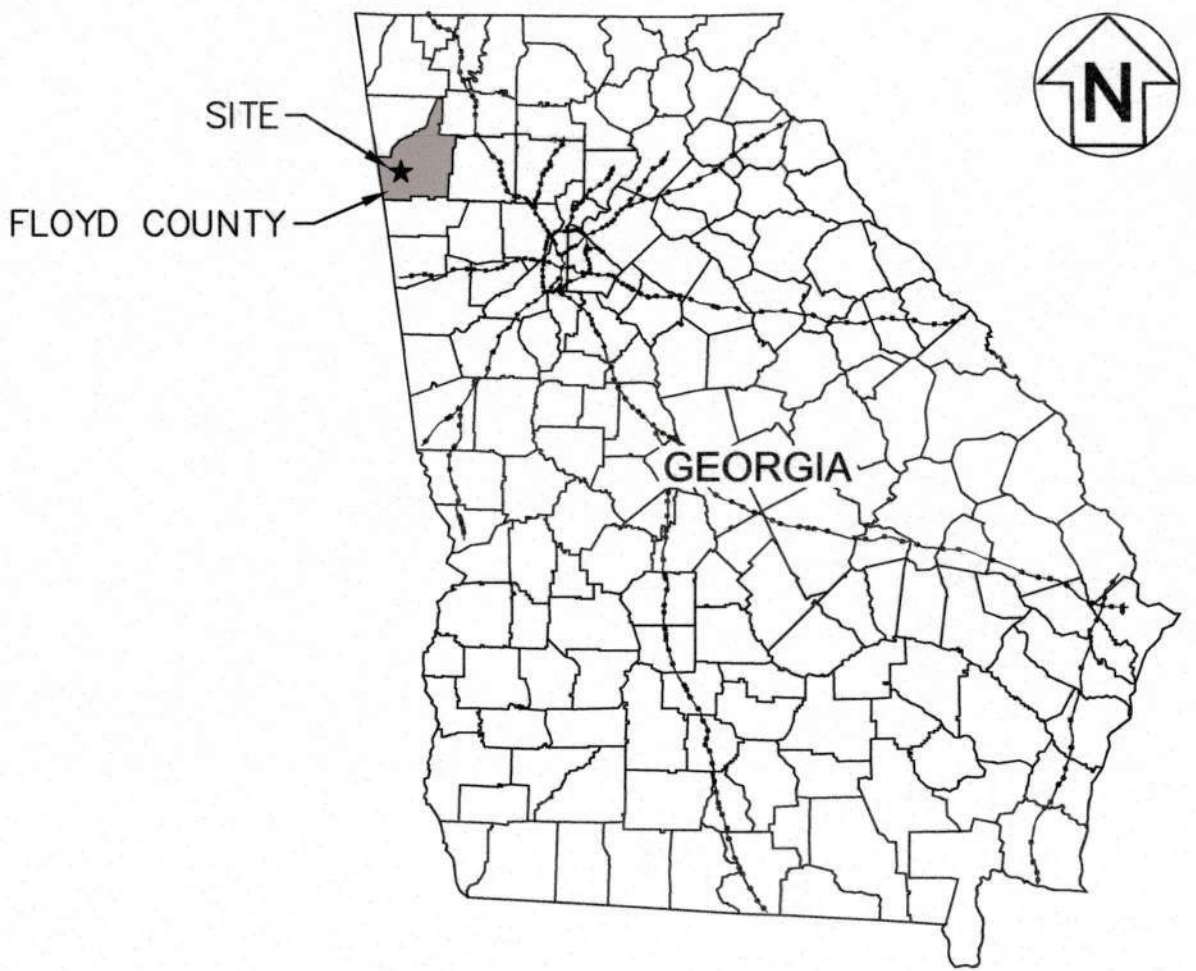
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- P467(1) PLANT HAMMOND ASH POND 1 PERMITTED SITE BOUNDARY
- 1 OF 1 ENVIRONMENTAL MONITORING PLAN

RESPONSIBLE OFFICIAL
GENERAL MANAGER
GEORGIA POWER ENVIRONMENTAL AFFAIRS
241 RALPH MCGILL BLVD NE
ATLANTA, GEORGIA 30308
404-506-6505

PROPERTY OWNER
GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308




SITE LOCATION MAP
SCALE: 1"=5000'



LOCATION MAP
NOT TO SCALE



COVER SHEET			
CLOSURE DRAWINGS			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	01_18707-001-CVR
SCALE	AS SHOWN	EDIT	07/29/19
DATE	DECEMBER 2019	SHEET	1 OF 12

ABBREVIATIONS:

A.S.T.M. AMERICAN SOCIETY OF TESTING MATERIALS
A.A.S.H.T.O. AMERICAN ASSOCIATION OF STATE
HIGHWAY AND TRANSPORTATION OFFICIALS
B.C.C.M. BITUMINOUS COATED CORRUGATED METAL PIPE
BMP'S BEST MANAGEMENT PRACTICES
BOT. BOTTOM
B.O.P. BOTTOM OF PIPE
C/C. CENTER TO CENTER
C.F. CUBIC FEET
C. CENTERLINE
CM. CENTIMETER
CL. CLASS (OF PIPE)
CLR. CLEAR
CONC. CONCRETE
CONT. CONTINUOUS
C.M.P. CORRUGATED METAL PIPE
C.P.V.C. CORRUGATED POLYVINYL CHLORIDE PIPE
X-SLOPE CROSS SLOPE
C & G CURB & GUTTER
D.I. DROP INLET
DIA. DIAMETER
DT. DITCH
DR. DIMENSION RATIO
DWG. DRAWING
e. DISTANCE FROM P.V.I. TO V.C. @ P.V.I.
D.I.P. DUCTILE IRON PIPE
D.O.T. DEPARTMENT OF TRANSPORTATION
E.W. EACH WAY
E.O.P. EDGE OF PAVEMENT
EL. ELEVATION
F/C. FACE OF CURB
F.F. FINISH FLOOR
F.E.S. FLARED END SECTION
F.B. FLAT BOTTOM DITCH
F.H. FIRE HYDRANT
FT. FEET
G.C.M.P. GALVANIZED CORRUGATED METAL PIPE
GCL. GEOSYNTHETIC CLAY LAYER
GPC, GPCO. GEORGIA POWER COMPANY
GR. GRADE
GRD. BRK. GRADE BREAK
G.A.B. GRADED AGGREGATE BASE
G.I. GRATE INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE PIPE
H.P. HIGH POINT
I.E. INVERT ELEVATION
J.B. JUNCTION BOX
K. PERMEABILITY
L.C.R.S. LEACHATE COLLECTION & RECOVERY SYSTEM
L.O.D. LIMITS OF DISTURBANCE
LB. POUND
L.F. LINEAR FEET
N.T.S. NOT TO SCALE
L.P. LOW POINT
M.H. MANHOLE
MAX. MAXIMUM
MIN. MINIMUM
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
O.F.B. OUTSIDE FACE OF BUILDING
OZ. OUNCE
P.V.D. PAVED
PERF. PERFORATED
P.I. POINT OF INTERSECTION
P.I.V. POST INDICATOR VALVE
P.C. POINT OF CURVE
P.S. POINT OF SWITCH
P.S.I. POUND PER SQUARE INCH
P.T. POINT OF TANGENT
P.V.I. POINT OF VERTICAL INTERSECTION
P.V.C. POINT OF VERTICAL CURVE
P.V.T. POINT OF VERTICAL TANGENT
P.V.C. POLYVINYL CHLORIDE PIPE
P.S.I. POUNDS PER SQUARE INCH
P.S.F. POUNDS PER SQUARE FOOT
P.P. POWER POLE
R.O.W. RIGHT OF WAY
PCM. PROJECT CONSTRUCTION MANAGER
P. PROPERTY LINE
R. RADIUS
R.C.A.P. REINFORCED CONCRETE ARCH PIPE
R.C.P. REINFORCED CONCRETE PIPE
REF. REFERENCE
REQ.D. REQUIRED
REV. REVISION
RD. ROAD
SCH. SCHEDULE
SHLD. SHOULDER
SHT. SHEET
S.S. SIDE SLOPE
SQ. SQUARE
STD. STANDARD
T & B. TOP AND BOTTOM
T/C. TOP OF CURB
T.O.P. TOP OF PIPE
T/R. TOP OF RAIL
TYP. TYPICAL
V.G. VALLEY GUTTER
V.C. VERTICAL CURVE
W/. WITH
W.P. WORK POINT

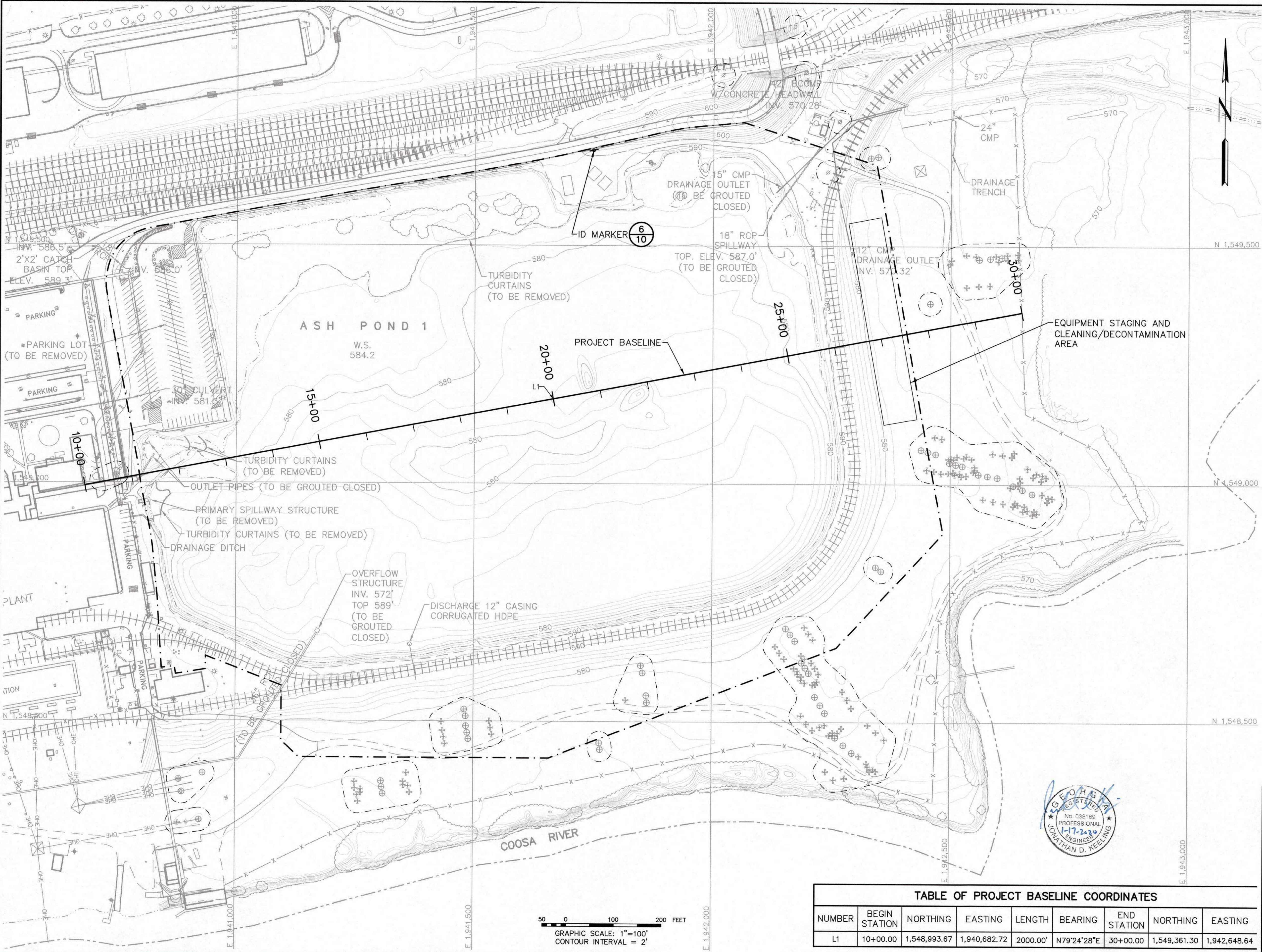
GENERAL NOTES

- PROJECT GRID IS GEORGIA STATE PLANE GRID, NAD 83, WEST ZONE.
- ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA." STORMWATER CONTROLS AND BEST MANAGEMENT PRACTICES SHALL 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.
- STORM WATER 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.
- STATE WATERS BUFFERS SHALL 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 SHALL BE OBTAINED FROM GEORGIA EPD'S WATERSHED PROTECTION BRANCH PRIOR TO BUFFER ENCROACHMENT. GEORGIA EPD'S SOLID WASTE MANAGEMENT BRANCH SHALL BE NOTIFIED WHEN GPC ENVIRONMENTAL AFFAIRS APPLIES FOR A STATE WATERS BUFFER VARIANCE. CONTACT GPC ENVIRONMENTAL AFFAIRS FOR ASSISTANCE.
- 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) SHALL BE CLEARLY FLAGGED AND STAKED. THESE MARKINGS SHALL BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION / CLOSURE ACTIVITIES. SHOULD ANY OF THE MARKINGS BE DISTURBED, THE CONTRACTOR SHALL NOTIFY GEORGIA POWER COMPANY IMMEDIATELY. ALL CONSTRUCTION PERSONNEL SHALL 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.
- THE GRADE CONTOURS SHOWN IN THE ASH POND, AGGREGATE ROADS, DITCHES, AND AT EXTERIOR SLOPES ARE FINAL GRADE ELEVATIONS. APPROPRIATE SOIL, CLAY, ROCK, ETC. THICKNESSES SHALL BE APPLIED TO CALCULATE SUBGRADE ELEVATIONS.
- GPC SHALL PROVIDE DESIGNATED ACCESS ROUTE/DIRECTIONS ACROSS THE PLANT PROPERTY.
- EXISTING ACCESS AND PLANT ROADS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY DURING CONSTRUCTION.
- ALL DEWATERING, SURFACE WATER RUNOFF CONTROL, PROVISIONS FOR DRAINAGE FOR EXCAVATIONS, AND FOR THE PLACEMENT OF MATERIALS SHALL BE PLANNED AND OPERATED BASED ON CONSTRUCTION NEEDS.
- ALL WORK SHALL BE IN COMPLIANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS. ALL SHORING/CRIBBING REQUIRED FOR INSTALLATION OF PIPES AND APPURTENANCES INCLUDING ANY DEEP EXCAVATIONS REQUIRE AN ENGINEER'S DESIGN.
- STAGING AREAS AND EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AT LEAST 200 FEET FROM STREAM BANKS TO MINIMIZE THE POTENTIAL FOR WASH WATER, PETROLEUM PRODUCTS, OR OTHER CONTAMINANTS FROM CONSTRUCTION EQUIPMENT ENTERING THE STREAMS.
- CONSTRUCTION DEBRIS, FLOWABLE FILL, OLD SUPPORT MATERIALS OR OTHER REFUSE SHALL NOT BE PLACED IN STREAMS OR IN AREAS WHERE MIGRATION INTO STREAMS AND/OR WETLANDS COULD REASONABLY BE EXPECTED.
- THE CLEAN-UP OF ALL ON-SITE DITCHES, PIPES, MANHOLES, INLETS, ETC. THAT RECEIVE STORMWATER RUNOFF FROM SITE CONSTRUCTION ACTIVITIES SHALL BE PERFORMED.
- THE CCR REMOVAL STRATEGY IS PROVDED IN THE CQA PLAN.



GENERAL NOTES			
CLOSURE DRAWINGS			
FOR			
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FLOYD COUNTY, GEORGIA			
<div>1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com</div> <div></div>			
PROJ. NO.	175618707	DWG.	18707-002-GN1
SCALE	AS SHOWN	SHEET 2 OF 12	
DATE	JULY 2019		
EDIT		MM/DD/YY	

PLOT DATE: 07/22/2019 USER: SHELTON, BEN
U:\175618707\TECHNICAL\PRODUCTION\DRAWING\DRAWING\FILE\ASHPOND_1\PERMIT\0002.SUB-002-GN1.DWG



MAPPING NOTE:
TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

- NOTES:**
- EXISTING DRAINAGE PIPES, PARKING LOT, AND OTHER FEATURES SHALL BE CLOSED OR REMOVED DURING CLOSURE-BY-REMOVAL CONSTRUCTION AS NOTED.
 - THE RAILROAD ON THE EAST AND SOUTH DIKES OF AP-1 IS OWNED BY GEORGIA POWER COMPANY.
 - GPC IS REMOVING THE CCR MATERIAL FROM THIS UNIT. FUTURE STAGING AND LOADING AREAS WILL BE CONSTRUCTED AS PART OF THE REMOVAL PROCESS. THE STAGING AREA SHOWN IS SUBJECT TO RELOCATION DURING FINAL DESIGN.

- LEGEND**
- EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EDGE OF WATER
 - GRAVEL ROAD
 - TREE LINE
 - FENCE
 - GUARDRAIL
 - RAILROAD TRACKS
 - POWER POLE
 - LIGHT POLE
 - TRANSMISSION BASE
 - GUY ANCHOR
 - SIGN
 - STEEL LATTICE
 - PERMIT BOUNDARY
 - 25-FOOT CLEARANCE
 - PROPERTY BOUNDARY
 - OVERHEAD ELECTRIC
 - ID MARKER (SIGN)



TABLE OF PROJECT BASELINE COORDINATES								
NUMBER	BEGIN STATION	NORTHING	EASTING	LENGTH	BEARING	END STATION	NORTHING	EASTING
L1	10+00.00	1,548,993.67	1,940,682.72	2000.00'	N79°24'28"E	30+00.00	1,549,361.30	1,942,648.64

EXISTING CONDITIONS

CLOSURE DRAWINGS

FOR

PLANT HAMMOND - GEORGIA POWER

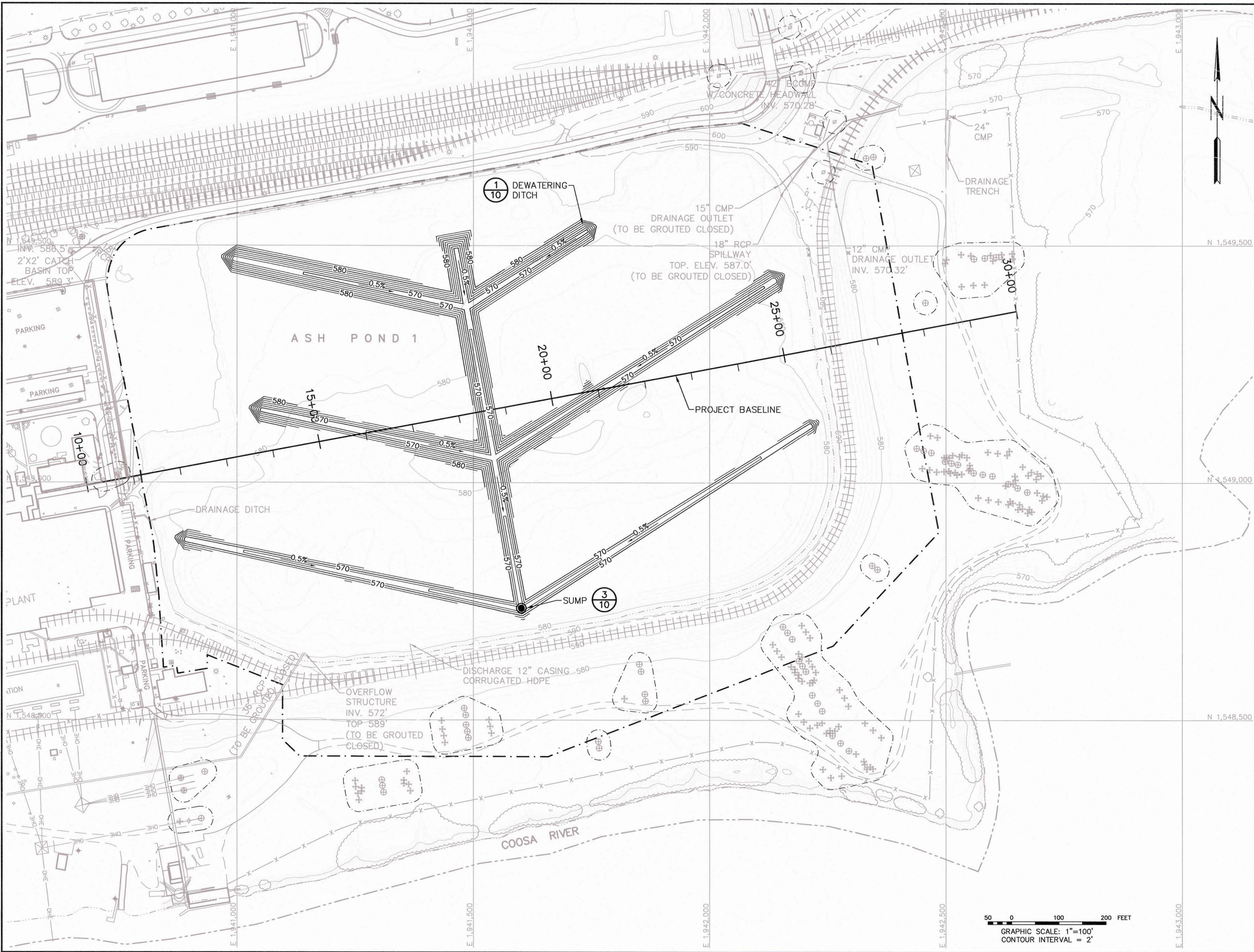
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT

FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A
Chattanooga, Tennessee 37402-2863
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PROJ. NO.	175618707	DWG.	03_18707-101-EC01	EDIT	07/29/19
SCALE	AS SHOWN	SHEET 3 OF 12			
DATE	DECEMBER 2019				

PLOT DATE: 12/05/2019 USER: SAMS, BRIAN
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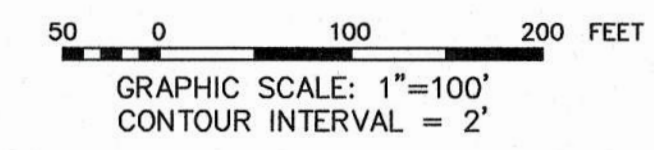
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- NOTES:**
1. STORMWATER AND CONTACT WATER SHALL BE PUMPED FROM THE SUMP TO THE NPDES TREATMENT SYSTEM.
 2. DEWATERING OF EXISTING ASH MATERIALS SHALL BE ACCOMPLISHED THROUGH EXCAVATING DEWATERING DITCHES (AND CONSTRUCTION OF THE SUMP) TO THE LINES AND GRADES SHOWN.
 3. THIS DEPICTED DEWATERING PLAN IS A PRELIMINARY PLAN FOR DEWATERING AP-1 AND MAY BE MODIFIED BASED ON SITE CONDITIONS ENCOUNTERED.

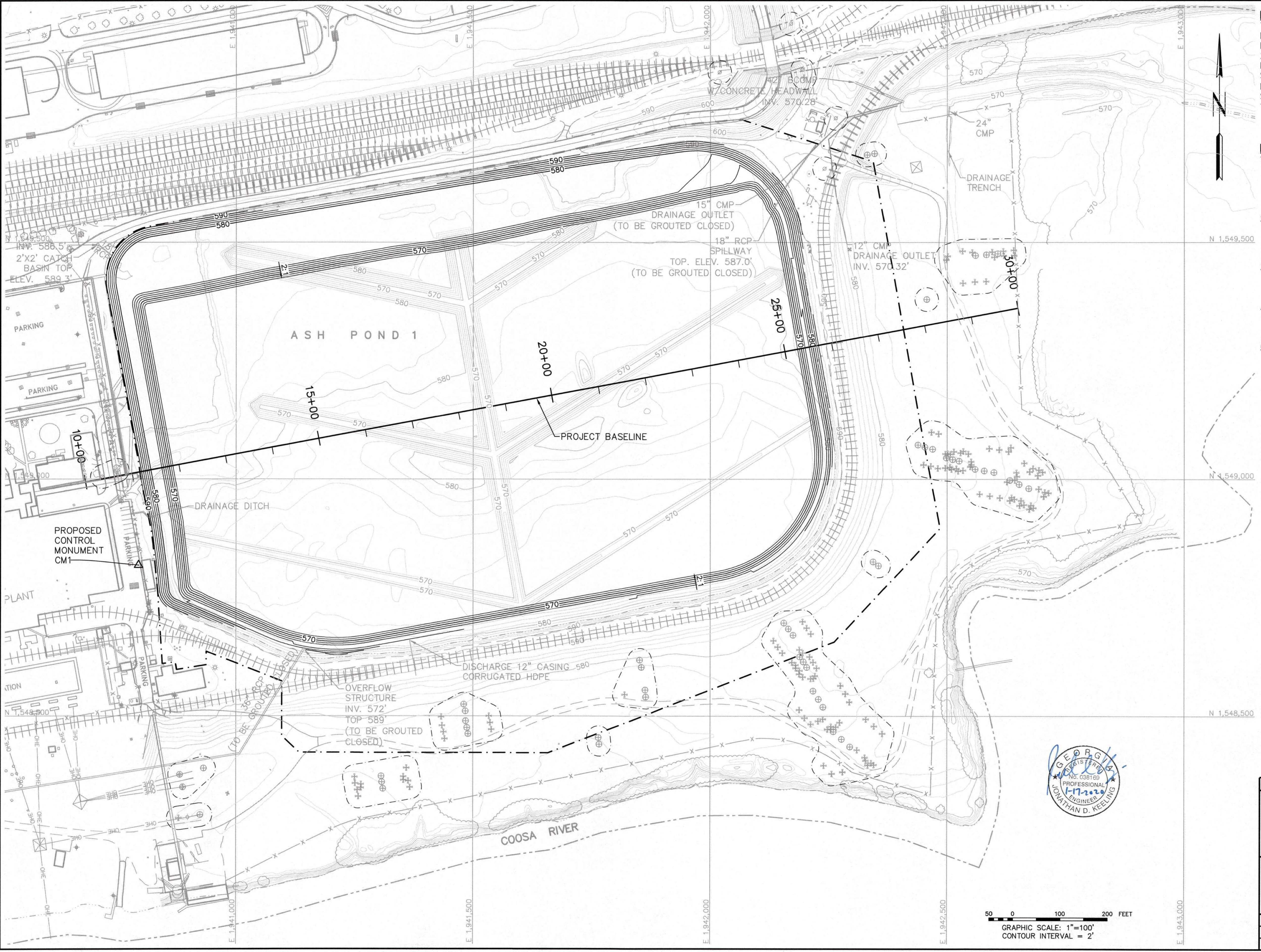
- LEGEND**
- 500 — EXISTING INDEX CONTOUR
 - 580 — EXISTING INTERMEDIATE CONTOUR
 - — EDGE OF WATER
 - — GRAVEL ROAD
 - — TREE LINE
 - x — FENCE
 - x — GUARDRAIL
 - x — RAILROAD TRACKS
 - x — POWER POLE
 - x — LIGHT POLE
 - x — TRANSMISSION BASE
 - x — GUY ANCHOR
 - x — SIGN
 - x — STEEL LATTICE
 - x — PERMIT BOUNDARY
 - x — 25-FOOT CLEARANCE
 - x — PROPERTY BOUNDARY
 - x — OVERHEAD ELECTRIC
 - 500 — PROPOSED INDEX CONTOUR
 - 580 — PROPOSED INTERMEDIATE CONTOUR



DEWATERING PLAN			
CLOSURE DRAWINGS			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	18707-102-DW01
SCALE	1"=100'	EDIT	MM/DD/YY
DATE	JULY 2019	SHEET 4 OF 12	



PLOT DATE: 07/22/2019 USER: SHELTON, BEN
U:\175618707\TECHNICAL\PRODUCTION\DRAWING\SHEET_FILES\ASH_POND_1\PERMIT\100%_SUB-OPT_2\18707-102-DW01.DWG



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- NOTES:**
1. STORMWATER CONTROLS SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH GEORGIA MANUAL OF EROSION AND SEDIMENT CONTROL, THE APPLICABLE NPDES CONSTRUCTION STORMWATER GENERAL PERMIT AND NPDES INDUSTRIAL STORMWATER GENERAL PERMIT.
 2. THE PROPOSED CONTOURS SHOWN CORRESPOND TO THE BOTTOM OF ASH AS SHOWN ON DRAWING H-35, PLANT HAMMOND UNITS 1 & 2 ASH BASIN AREA - EXCAVATION AND DRAINAGE.
 3. THE PROPOSED CONTOURS SHOWN ARE SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED IN THE FIELD.
 4. THE SURFACE SHOWN IS THE CCR/SOIL INTERFACE DESCRIBED IN THE CCR REMOVAL VERIFICATION PROTOCOL IN THE CQA PLAN.
 5. THE PROPOSED CONTROL MONUMENT MAY BE RELOCATED DURING FINAL DESIGN.

CONTROL MONUMENT TABLE			
MONUMENT	NORTHING	EASTING	ELEVATION (FEET)
CM1	1,548,818.33	1,940,794.36	TBD
CM2	1,549,081.70	1,938,721.05	TBD

- LEGEND**
- 500— EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - - - - - EDGE OF WATER
 - - - - - GRAVEL ROAD
 - - - - - TREE LINE
 - - - - - FENCE
 - - - - - GUARDRAIL
 - - - - - RAILROAD TRACKS
 - - - - - POWER POLE
 - - - - - LIGHT POLE
 - - - - - TRANSMISSION BASE
 - - - - - GUY ANCHOR
 - - - - - SIGN
 - - - - - STEEL LATTICE
 - - - - - PERMIT BOUNDARY
 - - - - - 25-FOOT CLEARANCE
 - - - - - PROPERTY BOUNDARY
 - - - - - OVERHEAD ELECTRIC
 - - - - - 500- PROPOSED INDEX CONTOUR
 - - - - - PROPOSED INTERMEDIATE CONTOUR
 - △ PROPOSED CONTROL MONUMENT



0 100 200 FEET
GRAPHIC SCALE: 1"=100'
CONTOUR INTERVAL = 2'

EXCAVATION PLAN

CLOSURE DRAWINGS

FOR

PLANT HAMMOND - GEORGIA POWER

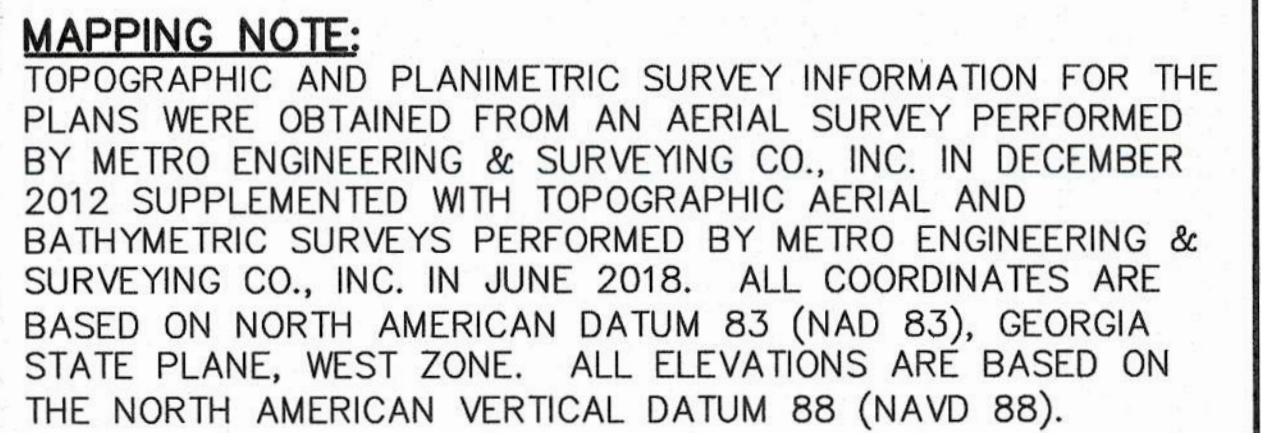
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT

FLOYD COUNTY, GEORGIA

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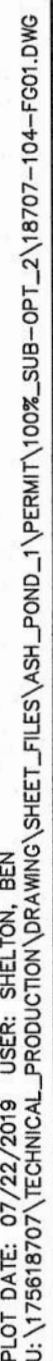
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SCALE	1"=100'				
DATE	JULY 2019	SHEET 5 OF 12			

PROJECT DATE: 12/05/2019 USER: SAMS, BRYAN
FILE: C:\PROJECTS\175618707\TECHNICAL\DRAWING\PRODUCTION\DRAWING SHEET FILES\ASH_POND_1\PERMIT\100%_SUB-DPT_2\05-18707-103-EX01.DWG



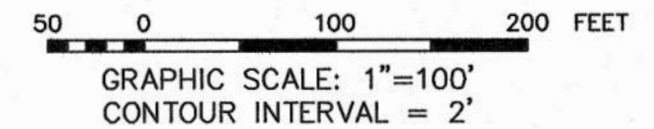
1. THE PERIMETER DIKE BREACH SHALL NOT BE EXCAVATED (AND PUMPING FROM THE SUMP SHALL CONTINUE) UNTIL VEGETATION HAS BEEN ESTABLISHED ON THE FINAL GRADE SURFACE AND APPROVAL OBTAINED FROM THE OWNER OR THEIR REPRESENTATIVE.
2. THE SEQUENCING FOR EXISTING BERM REMOVAL AND REGRADING DEPENDS ON RAIL NEEDS FOR OTHER PROJECTS. ONCE THE RAIL IS NO LONGER NEEDED, THE RAIL WILL BE REMOVED AND THE BERMS REGRADED.
3. PROPOSED GRADES SHOWN SHALL BE CONSIDERED THE MINIMUM TO ACHIEVE POSITIVE DRAINAGE.

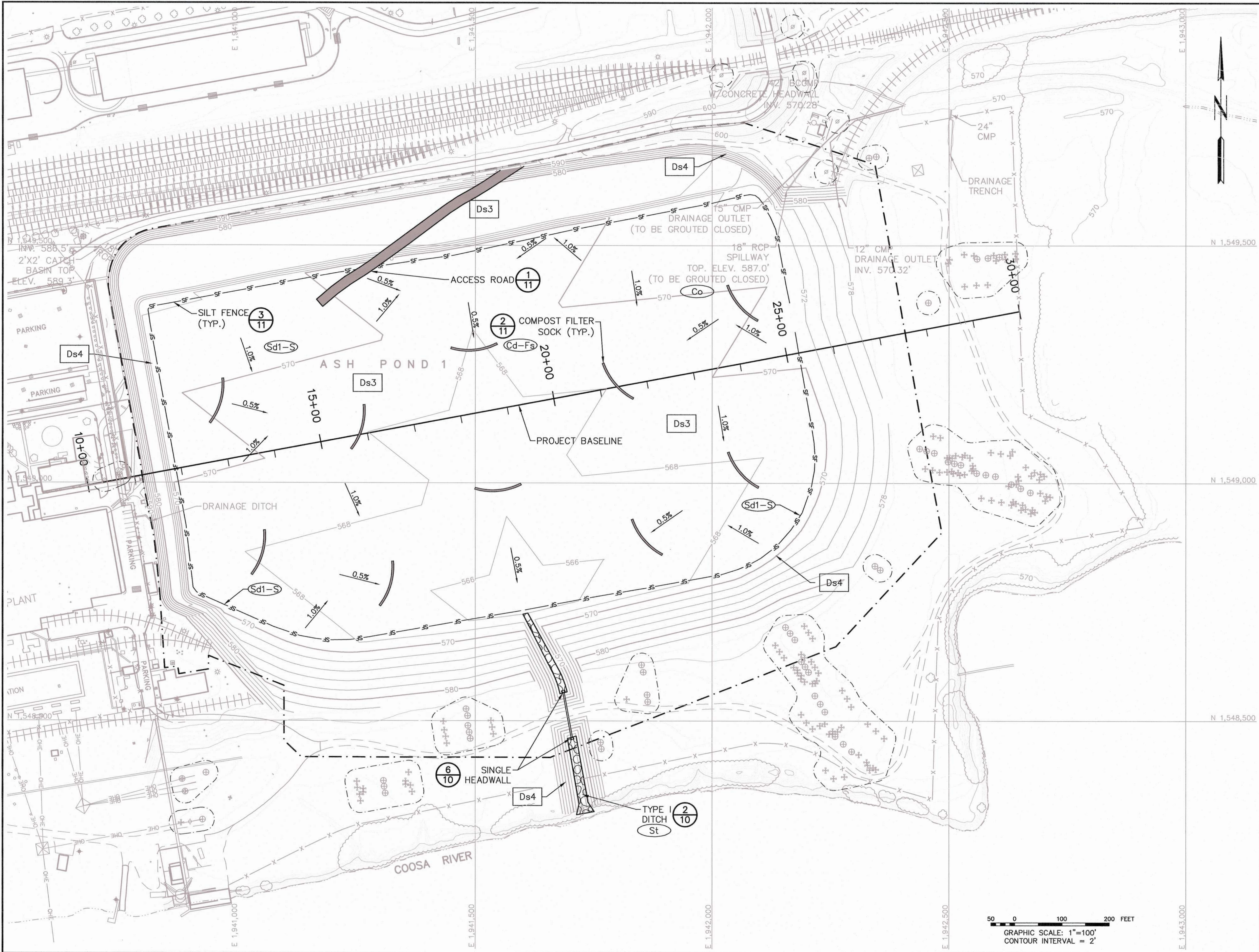
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EDGE OF WATER
	GRAVEL ROAD
	TREE LINE
	FENCE
	GUARDRAIL
	RAILROAD TRACKS
	POWER POLE
	LIGHT POLE
	TRANSMISSION BASE
	GUY ANCHOR
	SIGN
	STEEL LATTICE
	PERMIT BOUNDARY
	25-FOOT CLEARANCE
	PROPERTY BOUNDARY
	OVERHEAD ELECTRIC
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR



PLANT HAMMOND - GEORGIA POWER
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT
FLOYD COUNTY, GEORGIA

PROJ. NO.	175618707	DWG.	18707-104-FG01	EDIT	MM/DD/YY
SCALE	1"=100'	SHEET 6 OF 12			
DATE	JULY 2019				





MAPPING NOTE:
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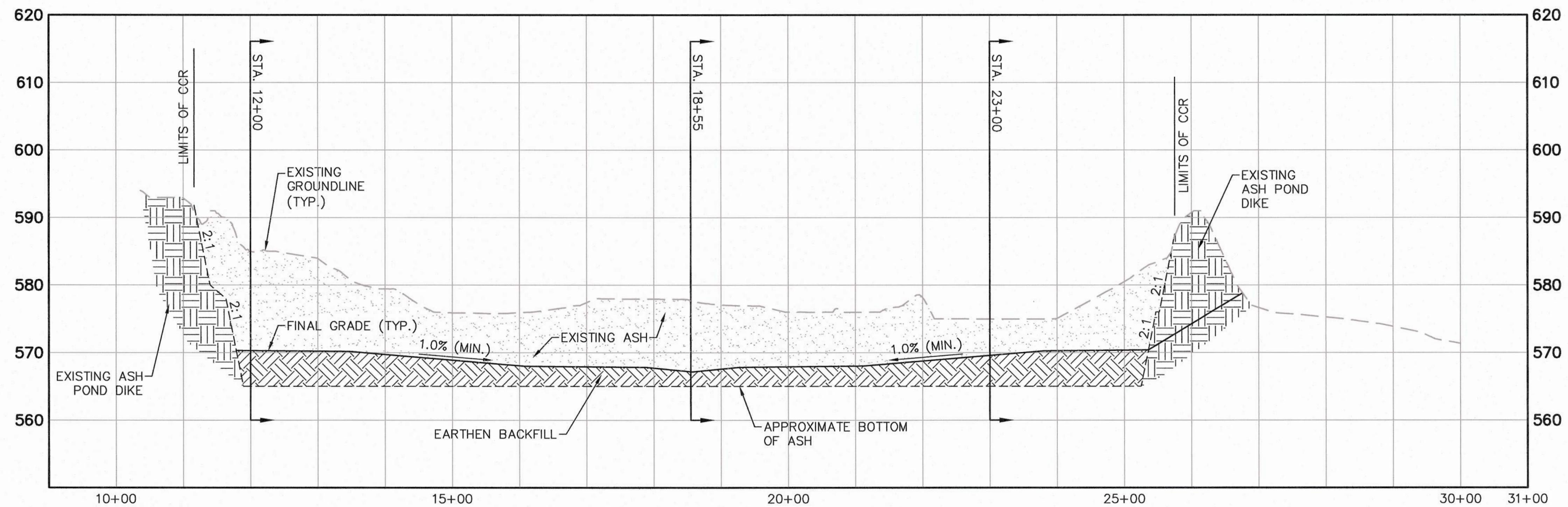
NOTE:
THE EROSION CONTROL PLAN MEASURES SHOWN SHALL BE CONSIDERED THE MINIMUM; SUPPLEMENTAL MEASURES SHALL BE PROVIDED AS FIELD CONDITIONS DICTATE OR AS DIRECTED BY THE ENGINEER, OWNER, OR ANY REGULATORY AUTHORITY.

- LEGEND**
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 - EXISTING INTERMEDIATE CONTOUR
 - EDGE OF WATER
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 - PERMIT BOUNDARY
 - 25-FOOT CLEARANCE
 - PROPERTY BOUNDARY
 - OVERHEAD ELECTRIC
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - SILT FENCE
 - COMPOSITE FILTER SOCK
 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
 - DISTURBED AREA STABILIZATION (WITH SODDING STAKED)
 - COMPOST FILTER SOCK
 - STORM DRAIN OUTLET PROTECTION
 - CONSTRUCTION EXIT
 - SILT FENCE

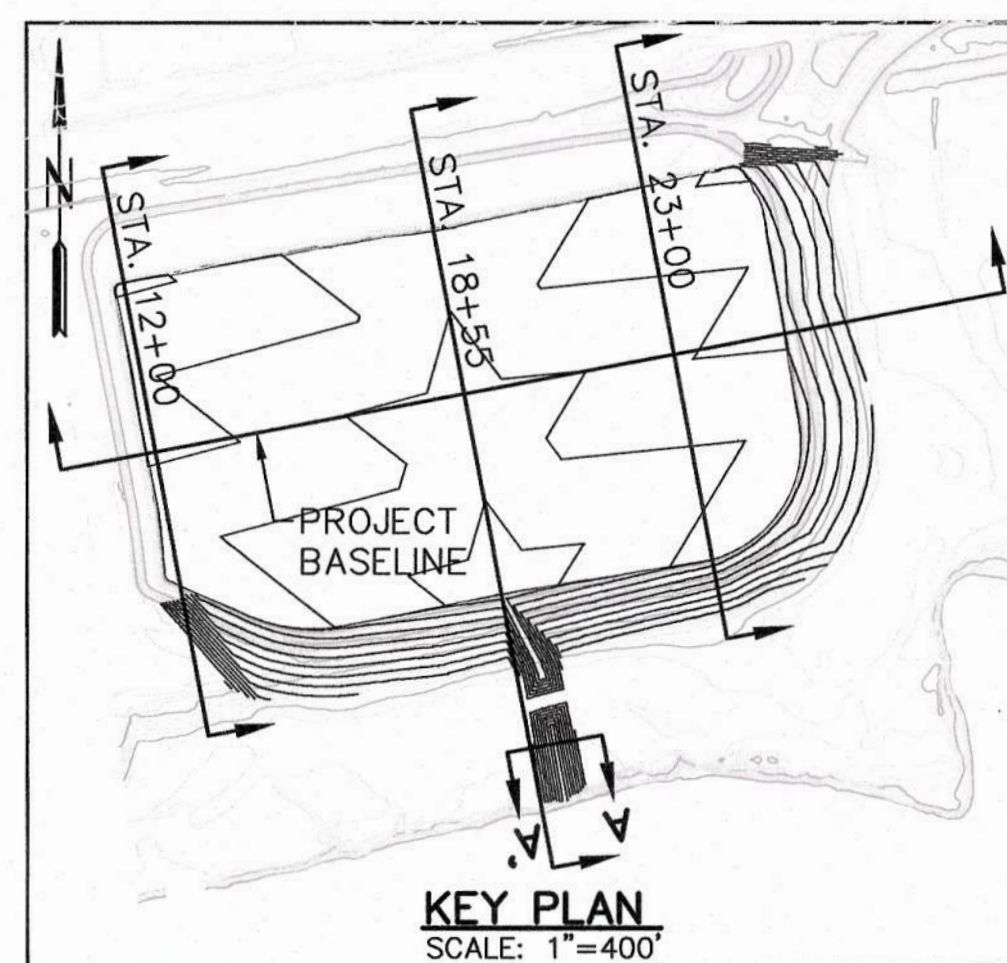


EROSION CONTROL PLAN			
CLOSURE DRAWINGS			
FOR			
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PLANT DATE: 07/29/2019 USER: SUB-TEN REV: 1
US: 175618707\TECHNICAL_PRODUCTION\DRAWING\PROJECT\FILES\ASH_POND_1\PERMIT\100%_SUB-OPT_2\18707-105-ECP.DWG

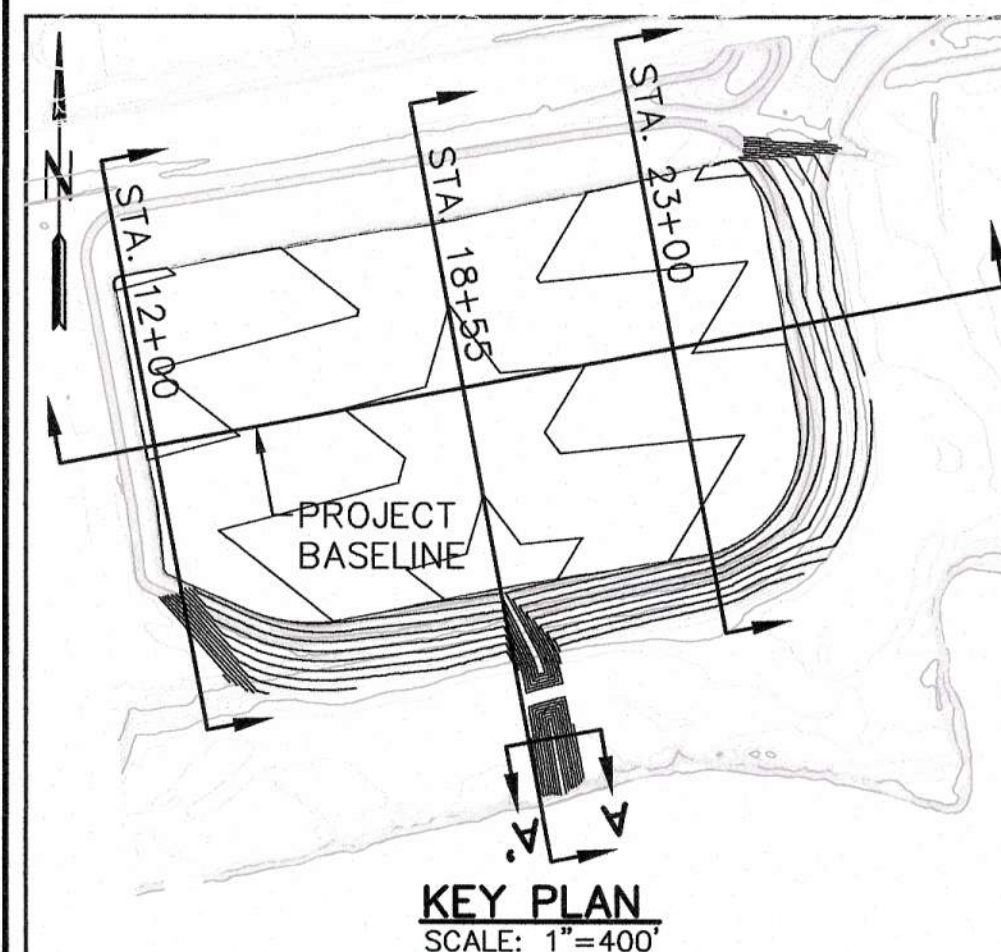
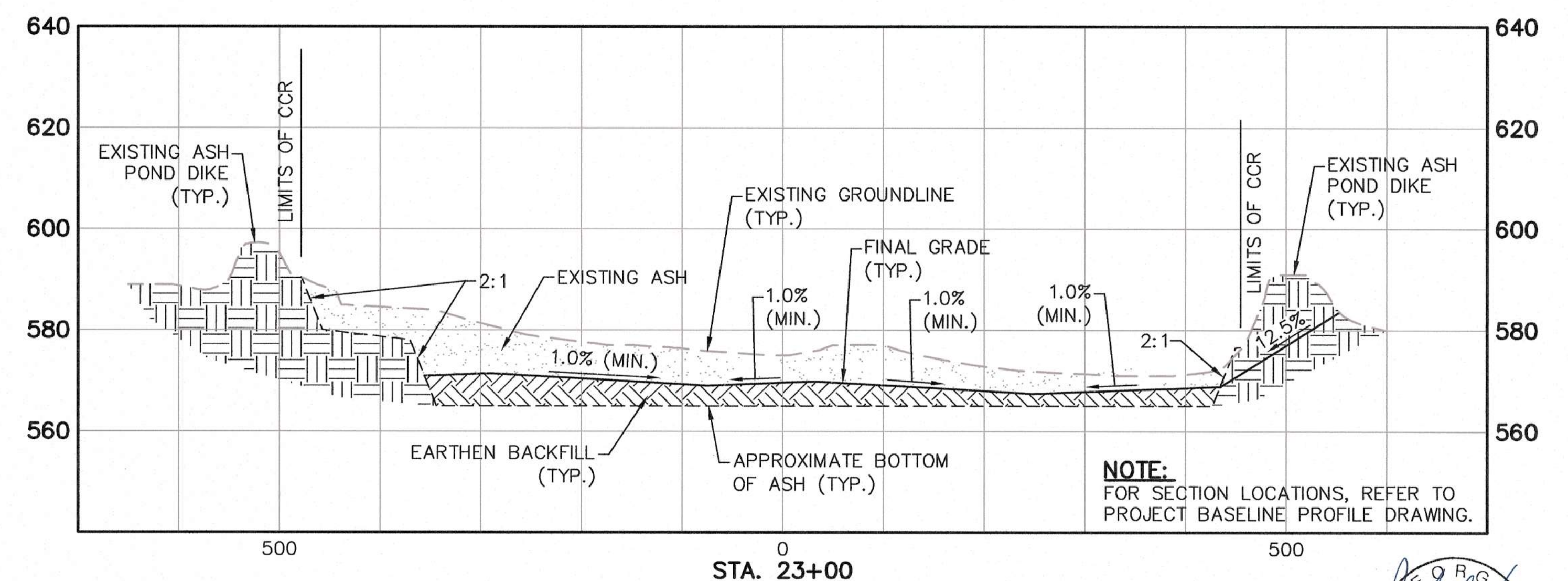
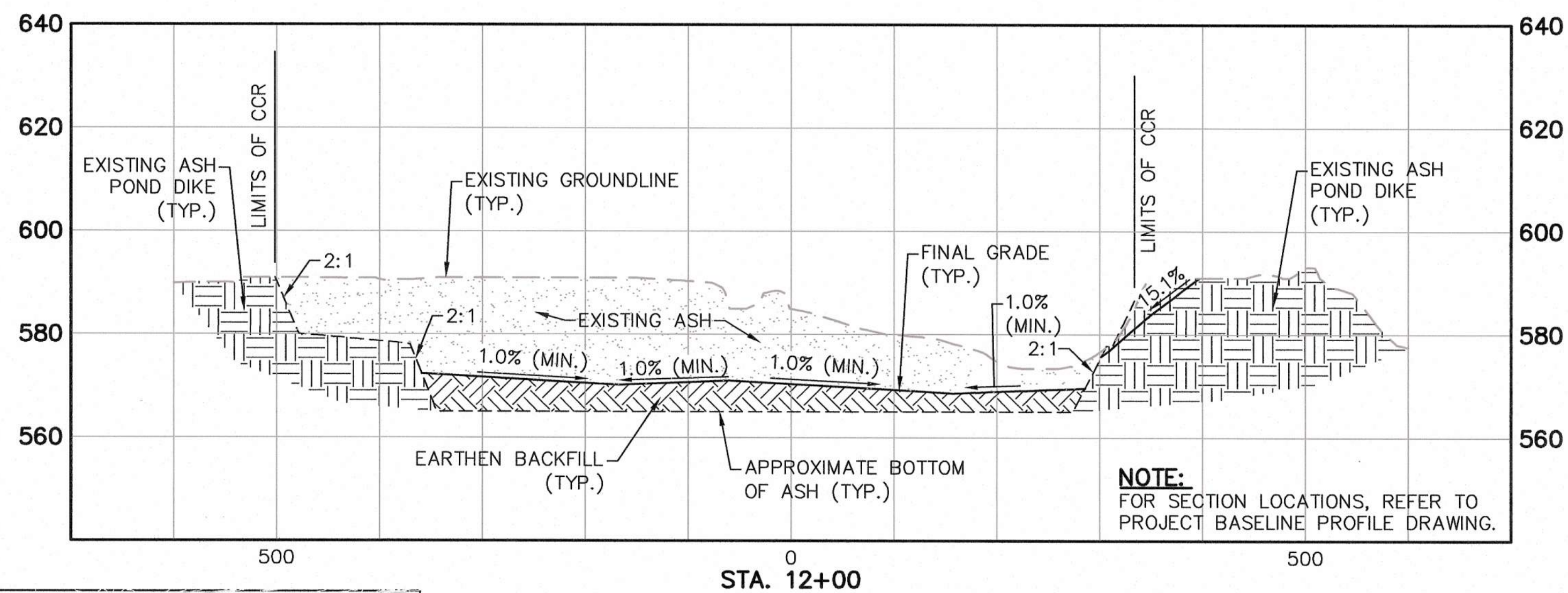
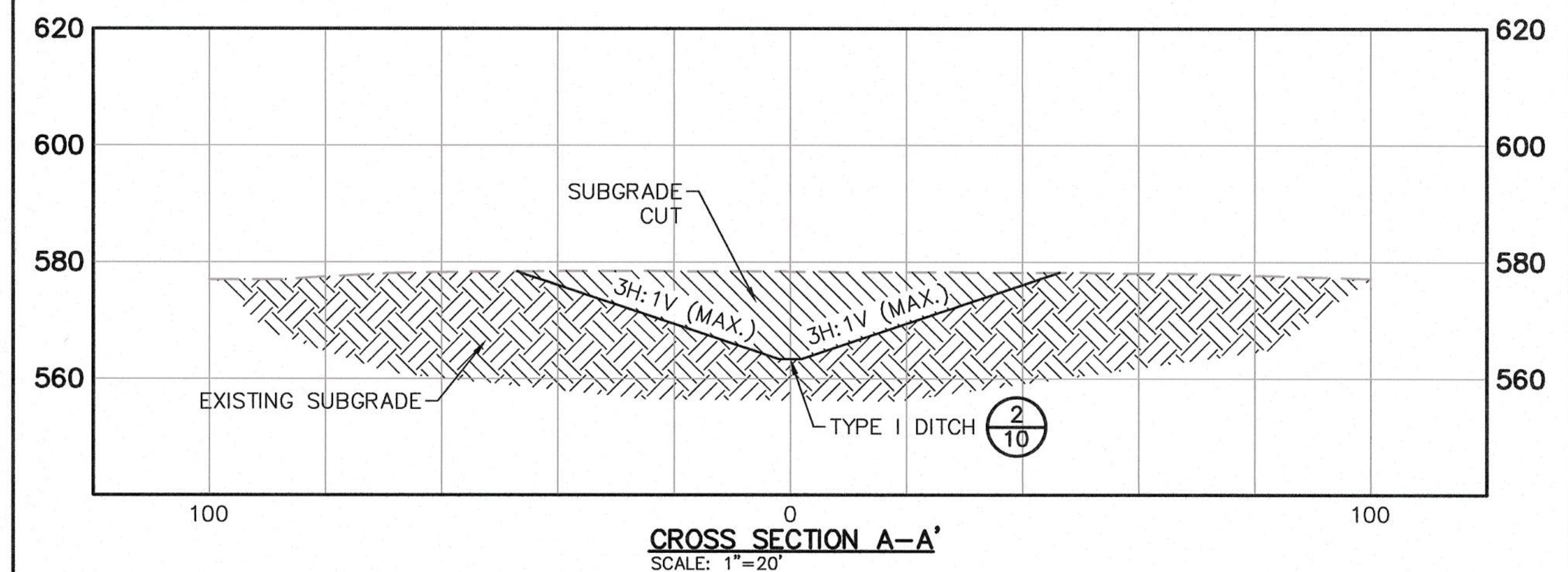
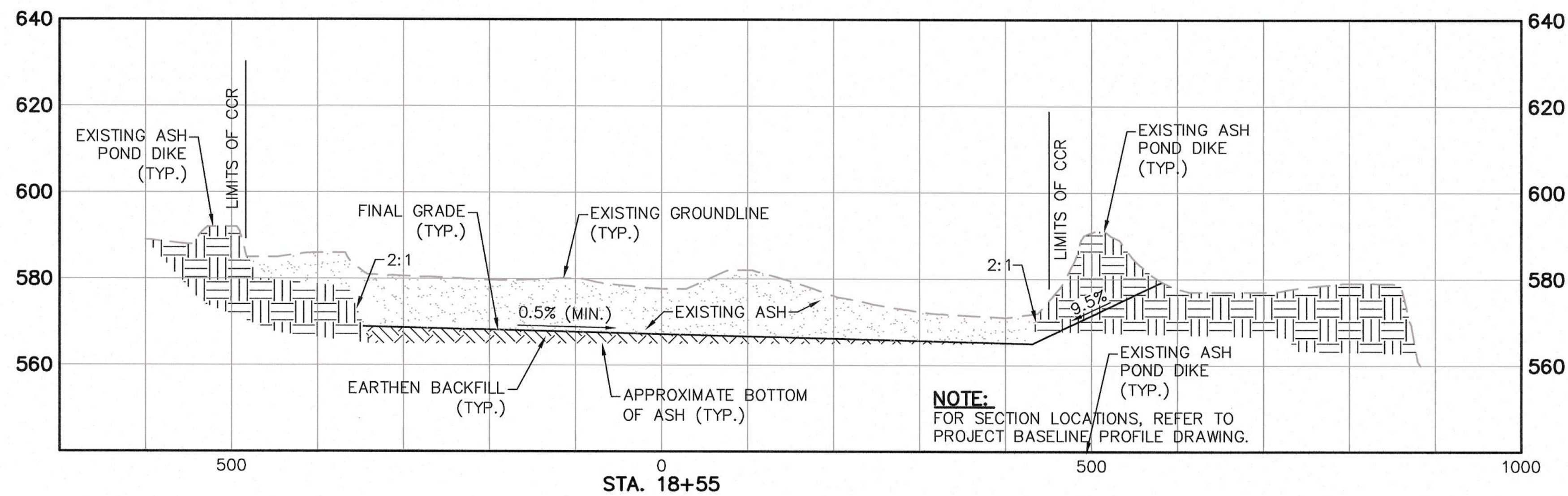


PROFILE - PROJECT BASELINE
 SCALE: 1"=100' (HORIZONTAL)
 1"=10' (VERTICAL)



BASELINE PROFILE			
CLOSURE DRAWINGS FOR PLANT HAMMOND - GEORGIA POWER ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	18707-301-PF01
SCALE	AS SHOWN	EDIT	MM/DD/YY
DATE	JULY 2019	SHEET	8 OF 12

PLOT DATE: 07/22/2019 USER: SHELTON, BEN
 U:\175618707\TECHNICAL\PRODUCTION\DRAWING\ASHPOND1\PERMIT\100%_SUB-OPT_2\18707-301-PF01.DWG



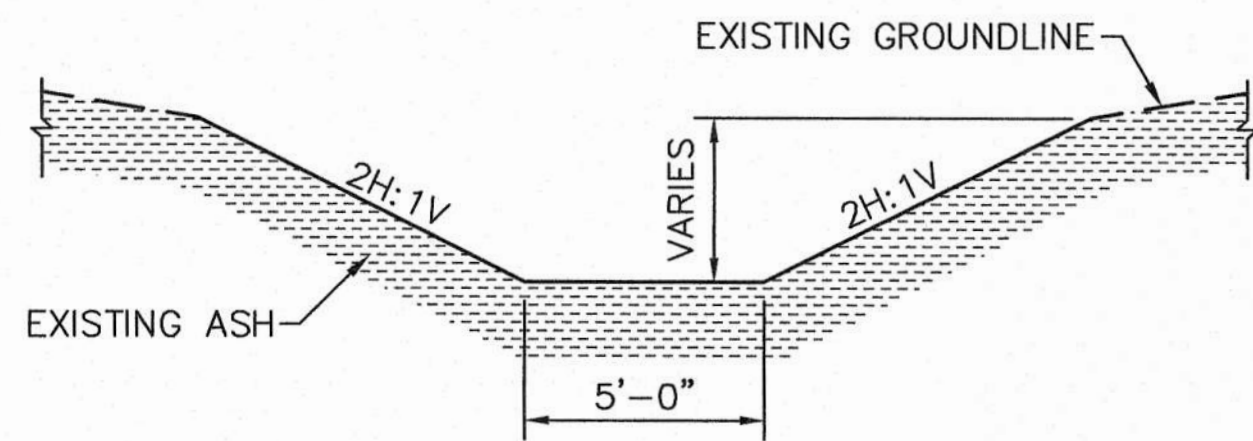
CROSS SECTIONS
SCALE: 1"=100' (HORIZONTAL)
1"=20' (VERTICAL)

SECTION OR DETAIL NO.
SHEET WHERE SHOWN

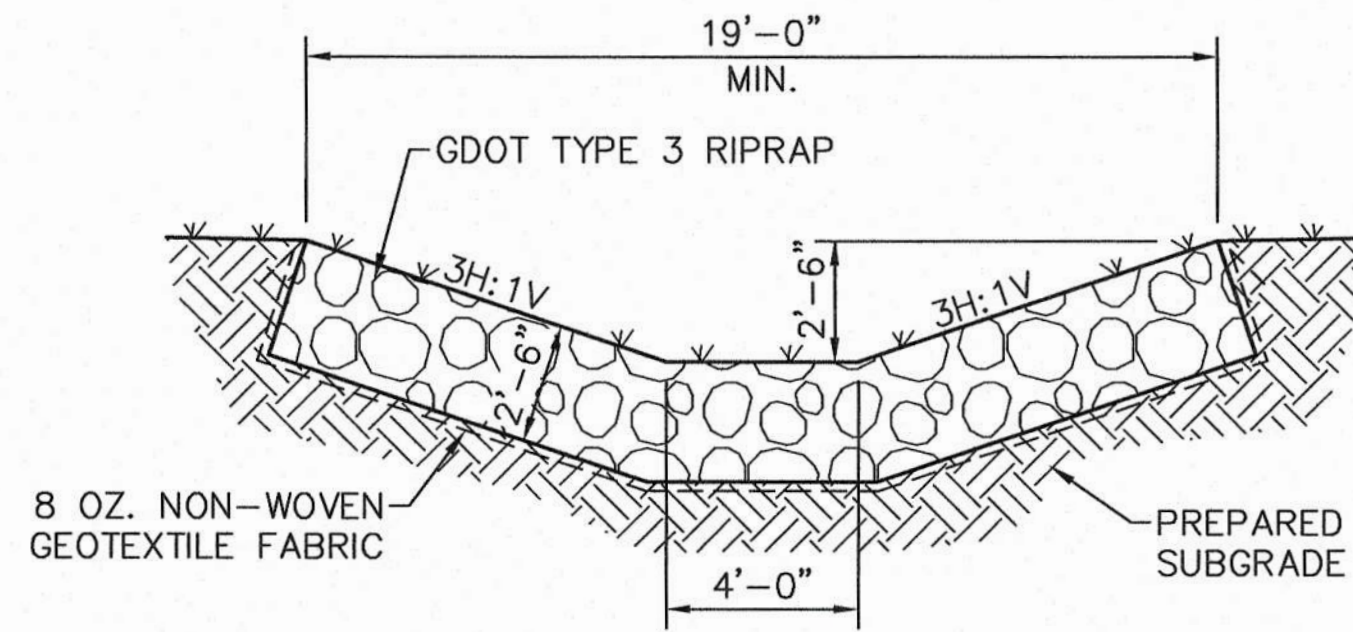
REFERENCE KEY



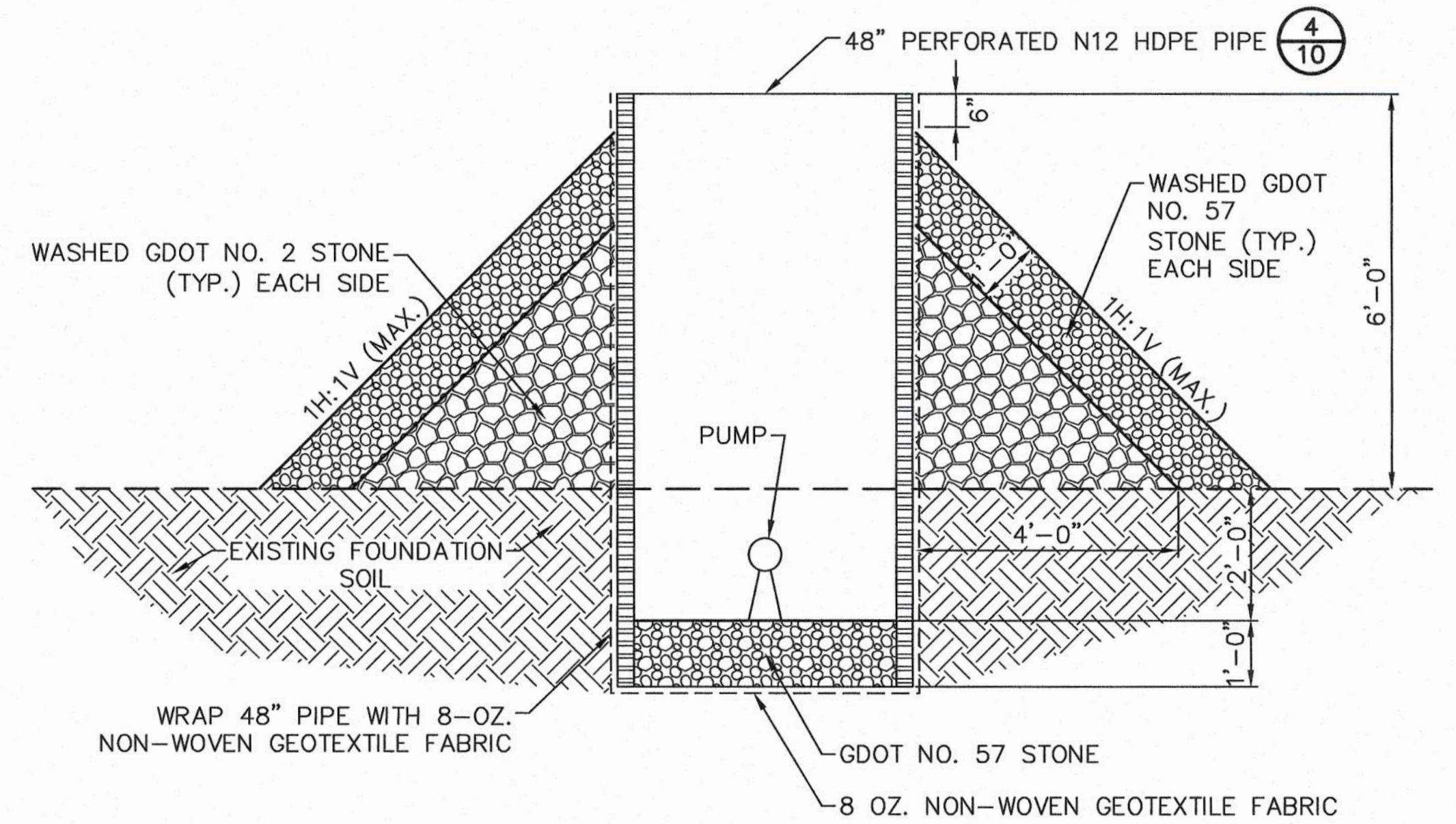
CROSS SECTIONS			
CLOSURE DRAWINGS			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	18707-302-XS01
SCALE	AS SHOWN	DATE	JULY 2019
SHEET 9		OF 12	



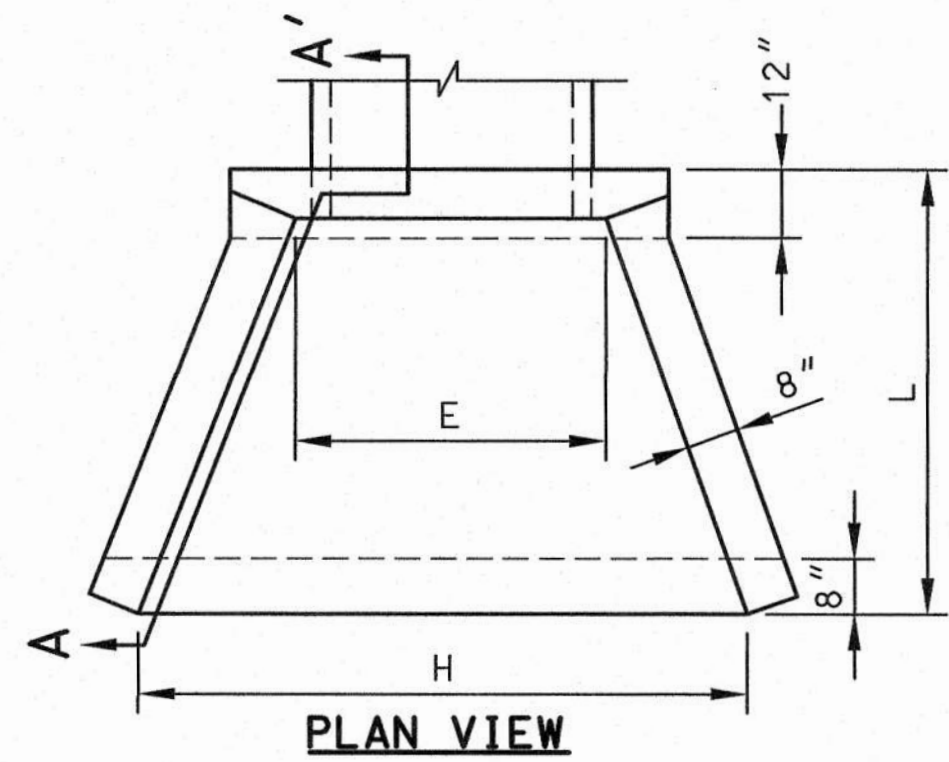
1 DETAIL - DEWATERING DITCH
10 SCALE: 1/4"=1'-0" DTL-DEWATER-DITCH.DWG



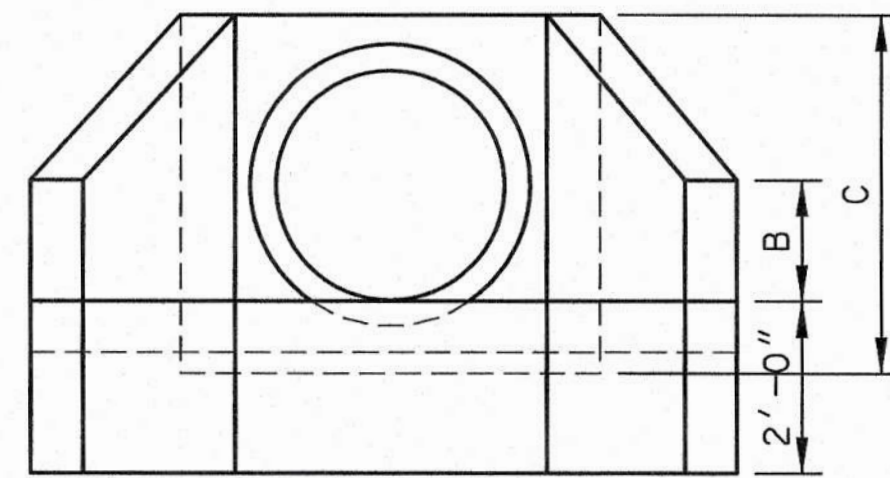
2 DETAIL - TYPE I DITCH (St)
10 SCALE: 1/4"=1'-0" DTL-DITCH-TYPEI.DWG



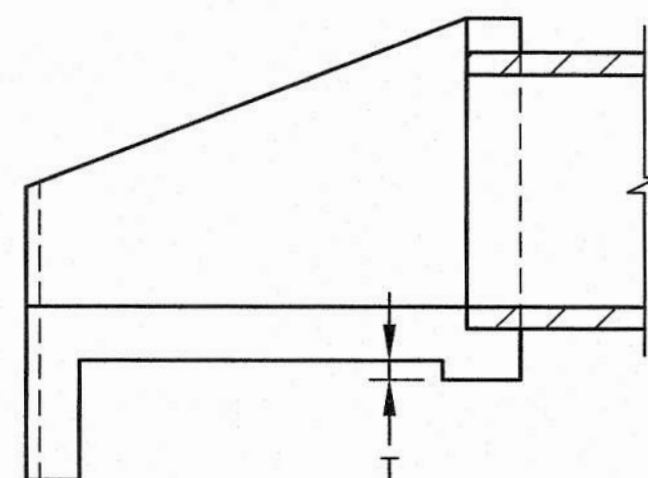
3 DETAIL - SUMP
10 SCALE: 1/2"=1'-0" SUMP.DWG



PLAN VIEW



FRONT ELEVATION



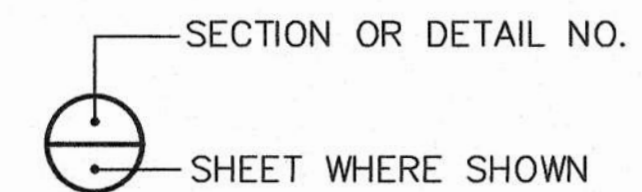
SECTION A-A'

DIMENSIONS						
PIPE DIA.	C	L	B	E	H	WEIGHT
36"	5'-0"	5'-0"	1'-6"	3'-8"	8'-6"	8,700 lbs.

6 DETAIL - SINGLE HEADWALL (PRECAST)
10 NOT TO SCALE DTL-HDW-SINGLE.DWG

NOTES:

1. INSTALLATION OF THE CULVERT HEADWALL SHALL BE IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION, CONSTRUCTION OF TRANSPORTATION SYSTEMS STANDARD SPECIFICATIONS, CURRENT EDITION.
2. 2" CONCRETE COVER
3. REINF. # 5 REBAR 12" C.C. EA. WAY GRADE 60
4. 3/4" CHAMFER ON ALL EXPOSED EDGES
5. PIPE OPENING IN FACE OF WALL WILL EQUAL PIPE I.D. FOR 30"- 36" DIA PIPE
6. HOLE SIZE FOR 42"-60" DIA. PIPE = PIPE O.D. +3"

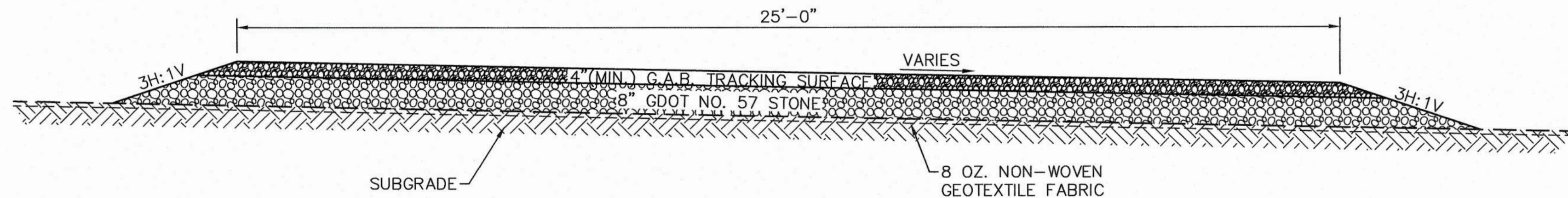


REFERENCE KEY

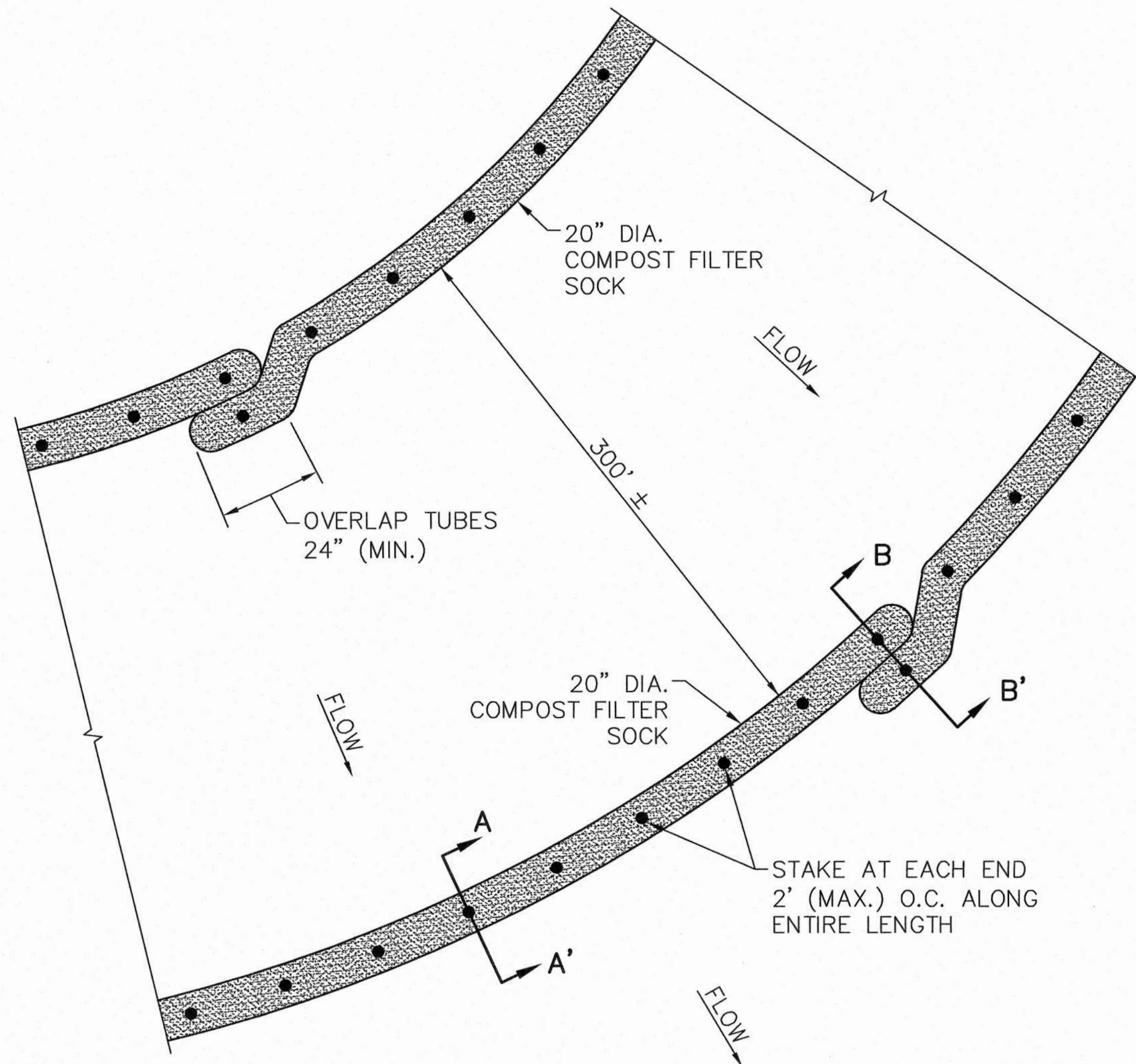


DETAILS			
CLOSURE DRAWINGS FOR PLANT HAMMOND - GEORGIA POWER ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	18707-501-DT1
SCALE	AS SHOWN	EDIT	MM/DD/YY
DATE	JULY 2019	SHEET 10 OF 12	

PLOT DATE: 07/22/2019 USER: SHELTON, BEN
U: 175618707\TECHNICAL_PRODUCTION_DRAWING_SHEET_FILES\ASH_POND_1\PERMIT\00%_SUB-OPT_2\18707-501-DT1.DWG

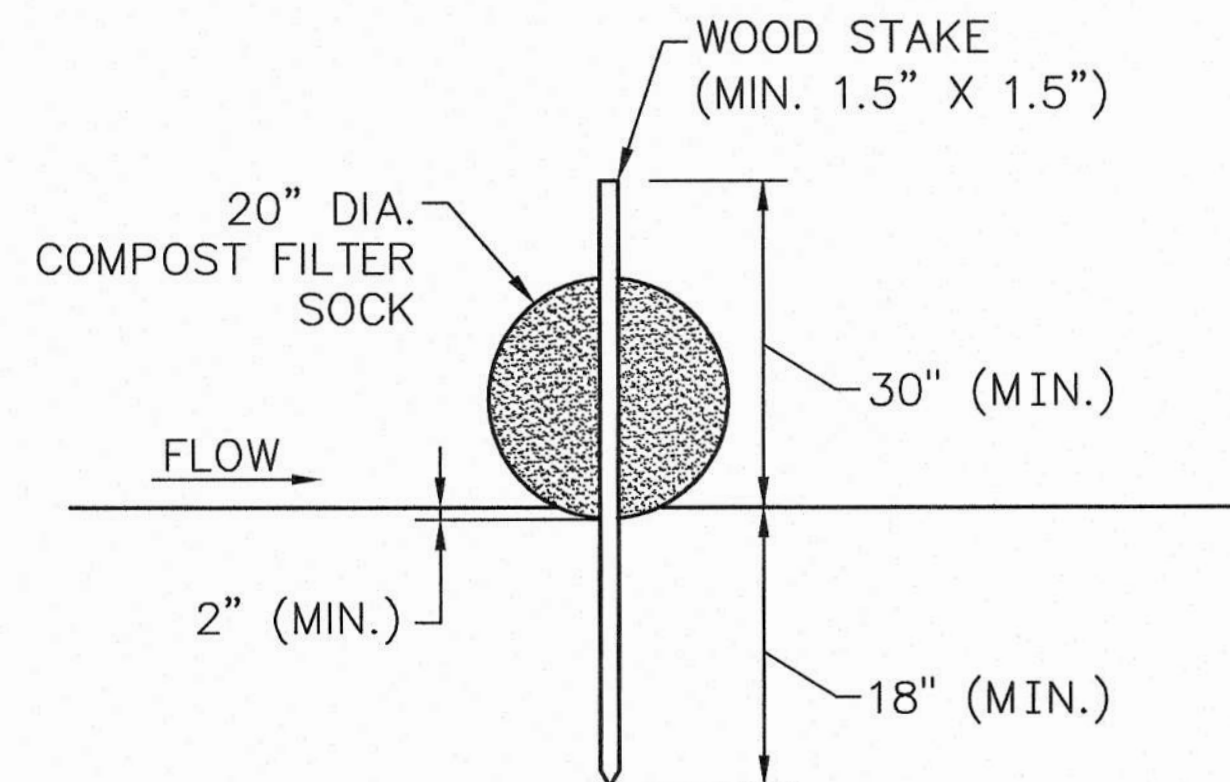


1 DETAIL - ACCESS ROAD (Co)
SCALE: 1/2" = 1'-0" DTL-ACCESS-ROAD.DWG

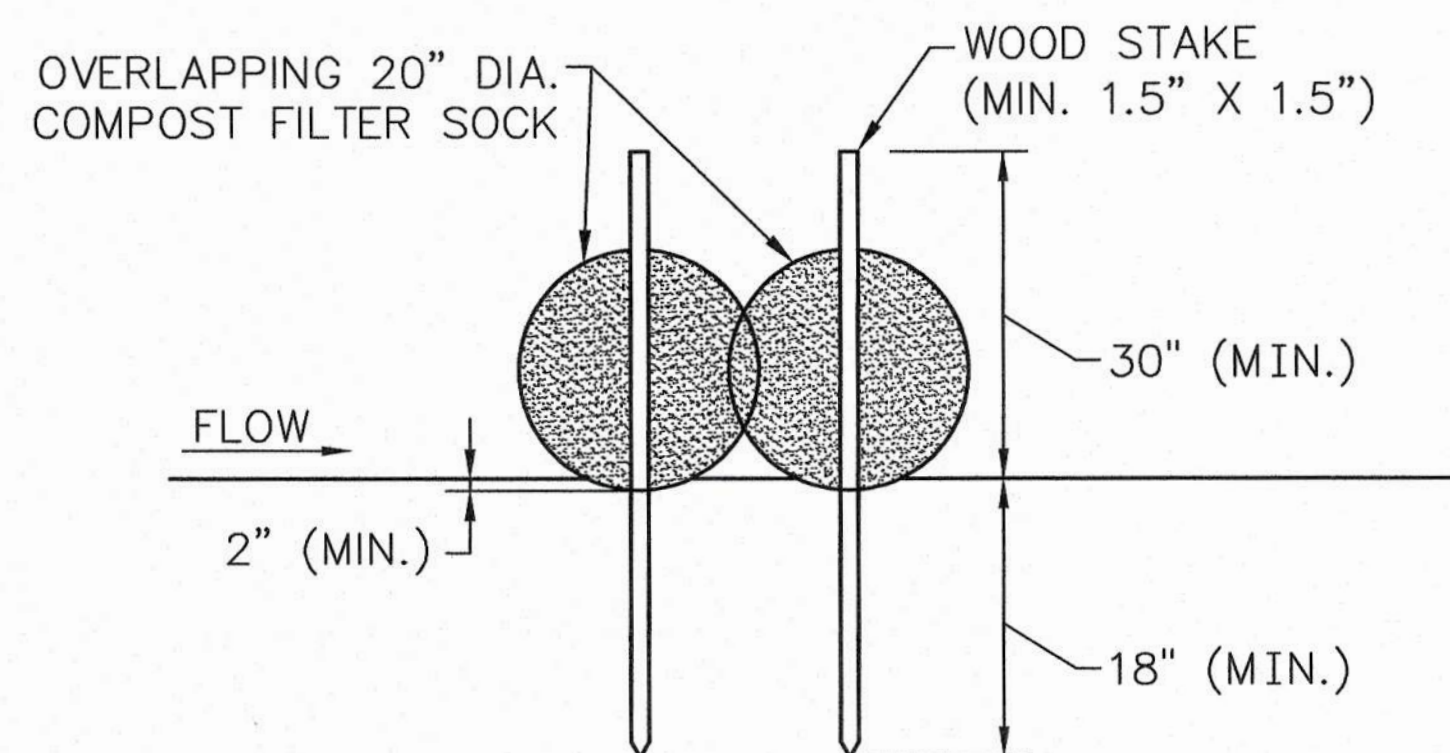


- NOTES:**
- COMPOST FILTER SOCKS SHALL BE INSTALLED WITH WOODEN STAKES (MIN. 1.5" X 1.5" ACTUAL). THE STAKE SHALL BE EMBEDDED A MINIMUM OF 18 INCHES.
 - COMPOST FILTER SOCKS SHALL BE TRENCHED IN A MINIMUM OF 2 INCHES.
 - IF MORE THAN ONE COMPOST FILTER SOCK IS PLACED IN A ROW IN SLOPE APPLICATION, THE COMPOST FILTER SOCKS SHALL BE OVERLAPPED A MINIMUM OF 24 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. WHEN USED IN DITCHES, TWO ROWS OF FILTER SOCKS SHALL BE PLACED ON THE CHANNEL BOTTOM WITH STAGGERED JOINTS AS SHOWN.
 - CONSTRUCTED IN ACCORDANCE WITH CHAPTER 6 BMP STANDARDS AND SPECIFICATIONS FOR GENERAL LAND-DISTURBING ACTIVITIES OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

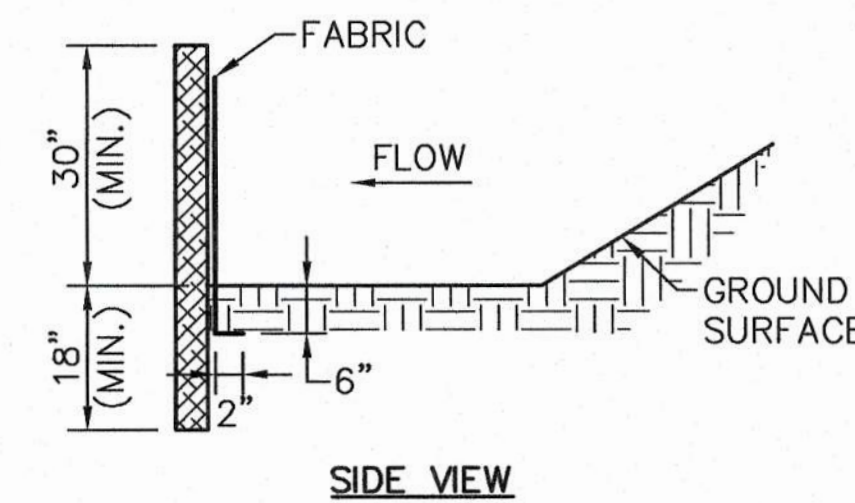
2 DETAIL - COMPOST FILTER SOCK (Cd-Fs)
SCALE: NOT TO SCALE DTL-WATTLE.DWG



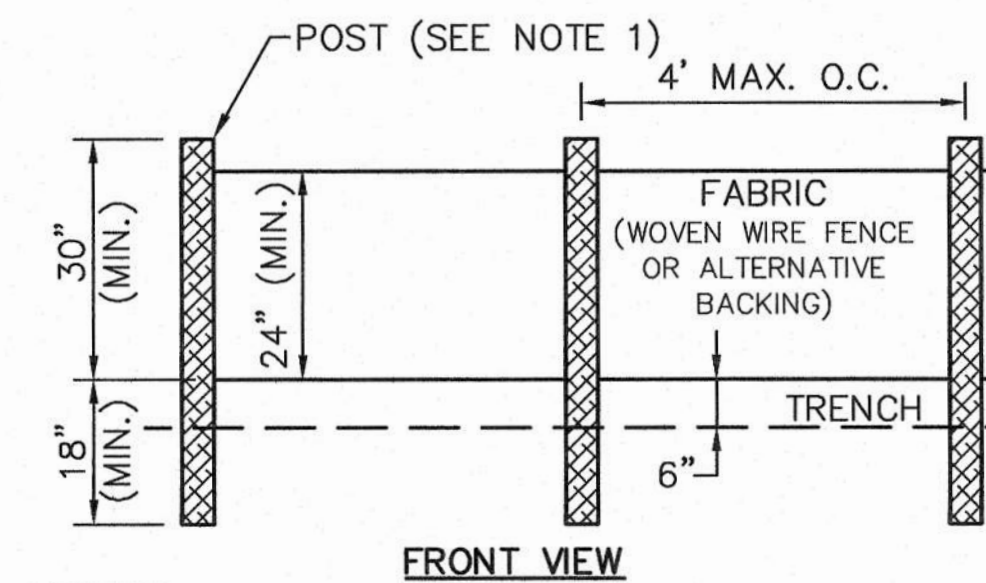
SECTION A-A'



SECTION B-B'



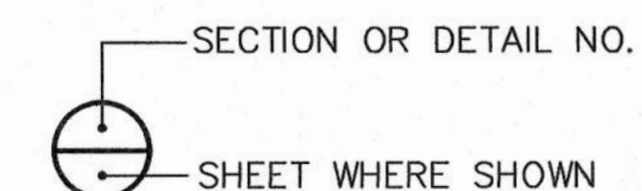
SIDE VIEW



FRONT VIEW

- NOTES:**
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 - CONSTRUCTED IN ACCORDANCE WITH CHAPTER 6 BMP STANDARDS AND SPECIFICATIONS FOR GENERAL LAND DISTURBING ACTIVITIES OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

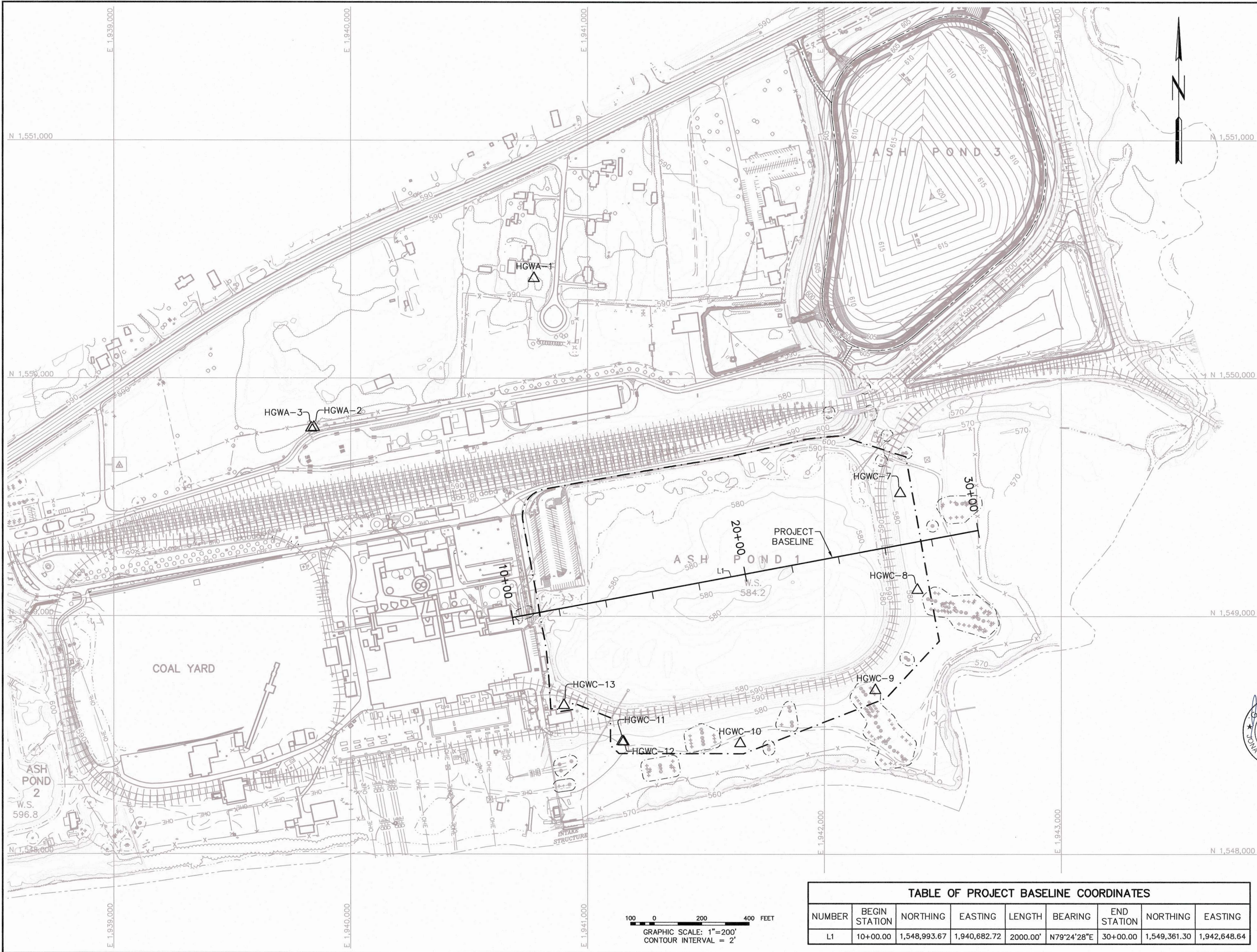
3 DETAIL - SILT FENCE - TYPE C (Sd1-S)
SCALE: NOT TO SCALE DTL-SILT-FENCE.DWG



REFERENCE KEY

DETAILS			
CLOSURE DRAWINGS			
FOR			
PLANT HAMMOND - GEORGIA POWER			
ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT			
FLOYD COUNTY, GEORGIA			
1110 Market Street, Suite 214A Chattanooga, Tennessee 37402-2863 www.stantec.com			
PROJ. NO.	175618707	DWG.	18707-502-DT2
SCALE	AS SHOWN	EDIT	MM/DD/YY
DATE	JULY 2019	SHEET	11 OF 12





MAPPING NOTE:
TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH THE TOP SOIL SURVEY (BOILER POND) DRAWING BY HUGHES-RAY COMPANY, INC. DATED NOVEMBER 11, 2017, THE SURGE POND FINAL AS-BUILT MAP ASH POND 3 CLOSURE PROJECT DRAWING BY PHILLIPS & JORDAN DATED MARCH 6, 2018, AND TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

MONITORING WELL LOCATION TABLE			
INSTRUMENT	NORTHING	EASTING	ELEVATION (FEET)
HGWA-1	1,550,423.69	1,940,773.31	595.50
HGWA-2	1,549,796.40	1,939,845.20	588.20
HGWA-3	1,549,793.91	1,939,833.45	588.10
HGWC-7	1,549,520.40	1,942,319.97	579.50
HGWC-8	1,549,114.35	1,942,392.76	580.10
HGWC-9	1,548,692.80	1,942,215.02	580.60
HGWC-10	1,548,469.50	1,941,644.42	579.70
HGWC-11	1,548,477.54	1,941,146.64	581.00
HGWC-12	1,548,475.80	1,941,152.09	581.00
HGWC-13	1,548,628.52	1,940,900.40	594.80

NOTE:
1. GROUNDWATER MONITORING WELL LOCATIONS SHOWN ARE TAKEN FROM GROUNDWATER MONITORING PLAN AS SHOWN IN PART "A" OF THE PERMIT APPLICATION.

- LEGEND**
- EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EDGE OF WATER
 - GRAVEL ROAD
 - TREE LINE
 - FENCE
 - GUARDRAIL
 - RAILROAD TRACKS
 - POWER POLE
 - LIGHT POLE
 - TRANSMISSION BASE
 - GUY ANCHOR
 - SIGN
 - STEEL LATTICE
 - PERMIT BOUNDARY
 - 25-FOOT CLEARANCE
 - PROPERTY BOUNDARY
 - OVERHEAD ELECTRIC
 - MONITORING WELL



TABLE OF PROJECT BASELINE COORDINATES								
NUMBER	BEGIN STATION	NORTHING	EASTING	LENGTH	BEARING	END STATION	NORTHING	EASTING
L1	10+00.00	1,548,993.67	1,940,682.72	2000.00'	N79°24'28"E	30+00.00	1,549,361.30	1,942,648.64

COMPLIANCE MONITORING NETWORK

CLOSURE DRAWINGS

FOR

PLANT HAMMOND - GEORGIA POWER

ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT

FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A
Chattanooga, Tennessee 37402-2863
www.stantec.com

PROJ. NO.	175618707	DWG.	18707-106-CMN	EDIT	MM/DD/YY
SCALE	1"=200'	SHEET 12 OF 12			
DATE	JULY 2019				

PLOT DATE: 07/01/2019 USER: SHELTON, BEN
C:\V\175618707\TECHNICAL\PRODUCTION\DRAWING\ASB\FILES\ASH_POND_1\PERMIT\1006\SUB-DWG-106-CMN.DWG

NORTH ARROW & PLAT BEARINGS
BASED ON - GEORGIA STATE PLANE
NAD83(2011) WEST

GEORGIA HIGHWAY 20
R/W VARIES

P.O.C.
N 155°13'56.38"
E 194°18'40.67"
RR IRON FD.

SUT 59°00'E 1613.28'

P/L

P.O.B.

ASH POND 1

POWER
PLANT
AREA

COOSA RIVER

ASH POND 1

42.13 AC. 1,835,280 SQ.FT.

SURVEY CLOSURE STATEMENT

The Field Data upon which this plat is based has a closure precision of one foot in 58,769 feet, and an angular error of <1" per angle point, and was adjusted using Least Squares method.

This plat has been calculated for closure and is found to be accurate within one foot in 661,142 feet.

Linear Measurement obtained using Leica TS-15 &
Angular Measurement obtained using Trimble SPS730
Field Work completed 11/29/2017

NOTE: BACKGROUND IMPROVEMENTS PER CONTIGUOUS PLAT
HAMMOND BY LOWE ENGINEERS, LLC, DATED AUGUST 15, 2018

F.I.R.M. FLOOD NOTE:

THIS PROPERTY IS LOCATED IN A 100 YR.
F.I.R.M. FLOODPLAIN, (BY GRAPHIC PLOTTING ONLY)
ACCORDING TO F.I.R.M. FLOOD MAP OF FLOYD COUNTY, GA.
COMMUNITY-PANEL NO. 13115C0163 E, 13115C0164 E &
13115C0251 E, DATED SEPTEMBER 25, 2009.

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



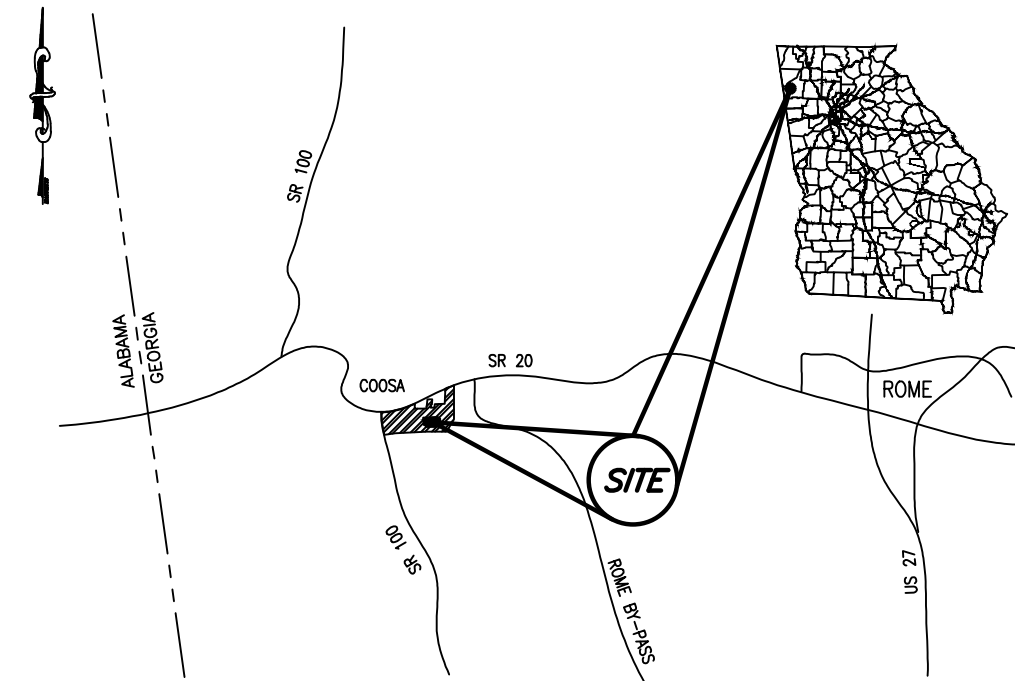
I hereby certify that this survey has been prepared in conformity with The Technical Standards for Property Surveys in Georgia as set forth in Chapter 180-7 on the Rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in the Georgia Plat Act O.C.G.A. 15-6-67.

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

Date: October 4, 2018

UTILITY LEGEND

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



LOCATION MAP - NOT TO SCALE

PLAT ABBREVIATIONS

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

(1173) Land Lot

Land Lot Line

Open Water / Ash Pond

MONUMENTATION LEGEND

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

REFERENCES:

- PLAT FOR GEORGIA POWER CO. BY LOWE ENGINEERS, LLC, GPC MF# P456-6, DATED FEBRUARY 2, 2018.
- PERMIT BOUNDARY DEVELOPED BY STANTEC FOR GEORGIA POWER, JULY 2018.

GRAPHIC SCALE



(IN FEET)
1 INCH = 200 FEET

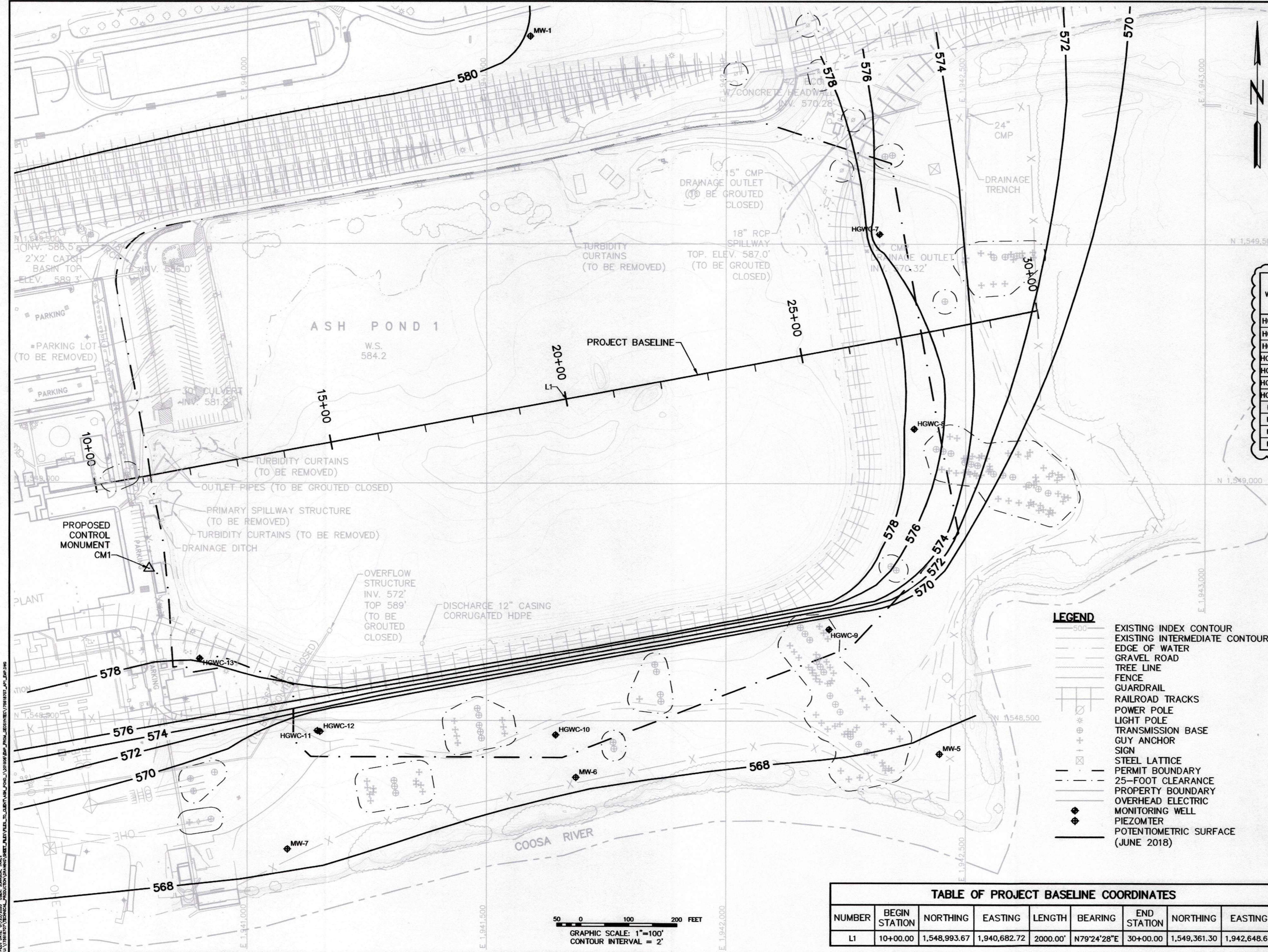
PATH - T:\Working2\Ash\Hammond\2018070089_CCR Permit Boundary Surveys - AP 1-4

GEORGIA POWER CO., ATLANTA, GA.
Land Department

Plant Hammond
Ash Pond 1
Permitted Site Boundary

LAND LOTS 183, 184, 213 & 214, 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA

APPROVALS	REVISION BLOCK	DR.	TR.	Checked
				WJDIII
				DATE
				10.04.2018
				DRAWING NUMBER
				P467 (1)



MAPPING NOTE:
TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION FOR THE PLANS WERE OBTAINED FROM AN AERIAL SURVEY PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN DECEMBER 2012 SUPPLEMENTED WITH TOPOGRAPHIC AERIAL AND BATHYMETRIC SURVEYS PERFORMED BY METRO ENGINEERING & SURVEYING CO., INC. IN JUNE 2018. ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 83 (NAD 83), GEORGIA STATE PLANE, WEST ZONE. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).

WELL ID	BORING ID	NORTHING	EASTING	GROUNDWATER ELEVATION JUNE 2018 (FT MSL)	WELL TYPE
HGWC-7	AP1-C1	1549520.39	1942319.97	575.26	MONITORING WELL
HGWC-8	AP1-C2	1549114.34	1942392.75	577.09	MONITORING WELL
HGWC-9	AP1-C3	1548692.82	1942215.01	569.93	MONITORING WELL
HGWC-10	AP1-C4	1548469.50	1941644.41	568.87	MONITORING WELL
HGWC-11	AP1-C5S	1548477.54	1941146.65	569.56	MONITORING WELL
HGWC-12	AP1-C5D	1548475.82	1941152.08	569.51	MONITORING WELL
HGWC-13	AP1-C6	1548628.52	1940900.41	578.07	MONITORING WELL
MW-1	AP01-MW01	1549936.35	1941590.63	579.97	PIEZOMETER
MW-5	AP01-MW5	1548430.93	1942445.51	567.62	PIEZOMETER
MW-6	AP01-MW6	1548381.08	1941686.62	568.23	PIEZOMETER
MW-7	AP01-MW7	1548230.07	1941084.33	568.29	PIEZOMETER

- NOTES:**
- EXISTING DRAINAGE PIPES, PARKING LOT, AND OTHER FEATURES SHALL BE CLOSED OR REMOVED DURING CLOSURE-BY-REMOVAL CONSTRUCTION AS NOTED.
 - THE RAILROAD ON THE EAST AND SOUTH DIKES OF AP-1 IS OWNED BY GEORGIA POWER COMPANY.
 - GPC IS REMOVING THE CCR MATERIAL FROM THIS UNIT. FUTURE STAGING AND LOADING AREAS WILL BE CONSTRUCTED AS PART OF THE REMOVAL PROCESS.
 - THE BASEMAP AND SITE FEATURES DEPICTED ON THIS DRAWING WERE PREPARED BY STANTEC CONSULTING SERVICES, INC. THE POTENTIOMETRIC SURFACE DEPICTED ON THIS DRAWING WAS DEVELOPED BY GEOSYNTEC CONSULTANTS, INC. THIS DRAWING HAS BEEN SEALED BY THE RESPECTIVE ENGINEER-OF-RECORD FOR EACH CONSULTANT.

- LEGEND**
- EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EDGE OF WATER
 - GRAVEL ROAD
 - TREE LINE
 - FENCE
 - GUARDRAIL
 - RAILROAD TRACKS
 - POWER POLE
 - LIGHT POLE
 - TRANSMISSION BASE
 - GUY ANCHOR
 - SIGN
 - STEEL LATTICE
 - PERMIT BOUNDARY
 - 25-FOOT CLEARANCE
 - PROPERTY BOUNDARY
 - OVERHEAD ELECTRIC
 - MONITORING WELL
 - PIEZOMETER
 - POTENTIOMETRIC SURFACE (JUNE 2018)



TABLE OF PROJECT BASELINE COORDINATES							
NUMBER	BEGIN STATION	NORTHING	EASTING	LENGTH	BEARING	END STATION	
L1	10+00.00	1,548,993.67	1,940,682.72	2000.00'	N79°24'28"E	30+00.00	1,549,361.30, 1,942,648.64

ENVIRONMENTAL MONITORING PLAN

CLOSURE DRAWINGS

FOR

PLANT HAMMOND - GEORGIA POWER

ASH POND 1 (AP-1) - EXISTING CCR SURFACE IMPOUNDMENT

FLOYD COUNTY, GEORGIA

1110 Market Street, Suite 214A
Chattanooga, Tennessee 37402-2863
www.stantec.com

PROJ. NO. 175618707

SCALE AS SHOWN

DATE NOVEMBER 2018

DWG. BASEMAP - STANTEC

EDIT 07/29/19

SHEET 1 OF 1

Stantec