

**HISTORY OF CONSTRUCTION FOR EXISTING CCR SURFACE IMPOUNDMENT
PLANT YATES ASH POND 1 (AP-1)
40 CFR 257.73(c)(1)(i)-(xii)**

(i) Site Name and Ownership Information:

Site Name: Eugene A. Yates Power Plant

Site Location: Newnan, Georgia

Site Address: 708 Dyer Road
Newnan, GA 30263

Owner: Georgia Power Company

Address: 241 Ralph McGill Boulevard
Atlanta, GA 30308

CCR Impoundment Name: Plant Yates Ash Pond 1 (AP-1)

NID ID: NA

EPA's "Disposal of Coal Combustion Residuals from Electric Utilities" Final Rule (40 C.F.R. Part 257 and Part 261), §257.73(c)(1), requires the owner or operator of an existing CCR surface impoundment to compile a history of construction. To the extent feasible, the following information is provided:

(ii) Location:

33.465311, -84.905638

See Location Map in the Appendix

(iii) Purpose of CCR Impoundment:

The Eugene A. Yates Power Plant (Plant Yates) was once a seven unit, coal fired, power generation facility. Currently Plant Yates Units 1-5 are in the process of demolition and Plant Yates Units 6 and 7 have been converted to natural gas. AP-1 was designed to receive and store coal combustion residuals produced during the electric power generating process at Plant Yates. AP-1 hasn't received ash for a number of years.

(iv) Watershed Description:

Plant Yates and AP-1 are located within the Acorn Creek-Chattahoochee River HUC-12 watershed which has a total area of 28,284 acres. The Acorn Creek-Chattahoochee River watershed is part of the larger Middle Chattahoochee-Lake Harding HUC-8 watershed which has an area of 1,950,182 acres. The inflow into AP-1 consists of the rainfall that falls within the limits of the surface impoundment and runoff from the adjoining 44-acre watershed.

(v) Description of physical and engineering properties of CCR unit foundation/abutments:

AP-1 is located in the Piedmont Physiographic Province of Georgia. The Piedmont is characterized by igneous and metamorphic rocks. According to the *Geologic Map of Georgia, 1976*, Plant Yates is located in an Undifferentiated Granite formation of the Piedmont. The residual soils in the Piedmont are a result of weathering of the underlying bedrock. Piedmont residual soils and alluvial soils (due to its proximity to the Chattahoochee River) are present within the footprint of AP-1. The alluvial soils consist of dense silty sand and clayey sand within the footprint of AP-1 based on subsurface investigations.

(vi) Summary of Site Preparation and Construction Activities:

AP-1 was constructed in 1948 and is also referred to as the “old ash pond” or the “original ash pond”. It began being used in September of 1950. The original construction had a top of dike elevation of 745 ft and a surface area of roughly 14 acres. AP-1 stopped receiving ash in 1966 once AP-2 (also called the “new ash pond”) was completed. In 1970 AP-1 was used temporarily to store ash while the dike in AP-2 was raised. AP-1 was also used as a settling basin for coal pile runoff for a number of years.

All ash has been removed from AP-1 as part of “closure by removal”. A large culvert will be placed at the bottom of AP-1 and extend through the existing dike so that AP-1 is no longer capable of retaining water. Stormwater runoff from AP-1 will flow into the culvert where it is carried out to the river.

Drawings showing the topography and original plans for AP-1 are included in the appendix as engineering diagrams.

(vii) Engineering Diagram:

The following drawings reflecting the construction of AP-1 can be found in the Appendix:

- H-28 1948 Ash Pond Embankment Plans
- H-520 1948 Yard layout
- H-66 1951 General site layout
- H-842 1976 Coal Pile Runoff Drainage Ditch
- C-38 1976 Coal Pile Runoff Drainage Plans
- 1995 Compilation Drawing Showing the Location of AP-1

(viii) Description of Instrumentation:

There is currently no instrumentation at AP-1.

(ix) Area-capacity curves:

Due to intentional breaches in the embankment, AP-1 is not capable of storing water, and stormwater runoff into AP-1 is routed into stormwater pipes that discharge into the Chattahoochee River.

(x) Spillway/Diversion design features and capacity calculations:

A large culvert will be placed at the bottom of AP-1 and extend through the existing dike so that AP-1 is no longer capable of retaining water. Stormwater runoff from AP-1 will flow into the culvert where it is carried out to the river.

(xi) Provisions for surveillance, maintenance and repair:

Prior to closure, inspections of dikes were conducted on a regular basis – at least annually by professional dam safety engineers and at least weekly by trained plant personnel. The inspections provided assurance that structures were sound and that action was taken, as needed, based on the findings. During annual inspections, dam safety engineers assessed instrument readings, inspected any maintenance or remediation performed since the previous inspection, checked the status of work recommended at prior inspections, ensured that the posting of emergency notification information is up to date and evaluated any items noted during plant personnel inspections.

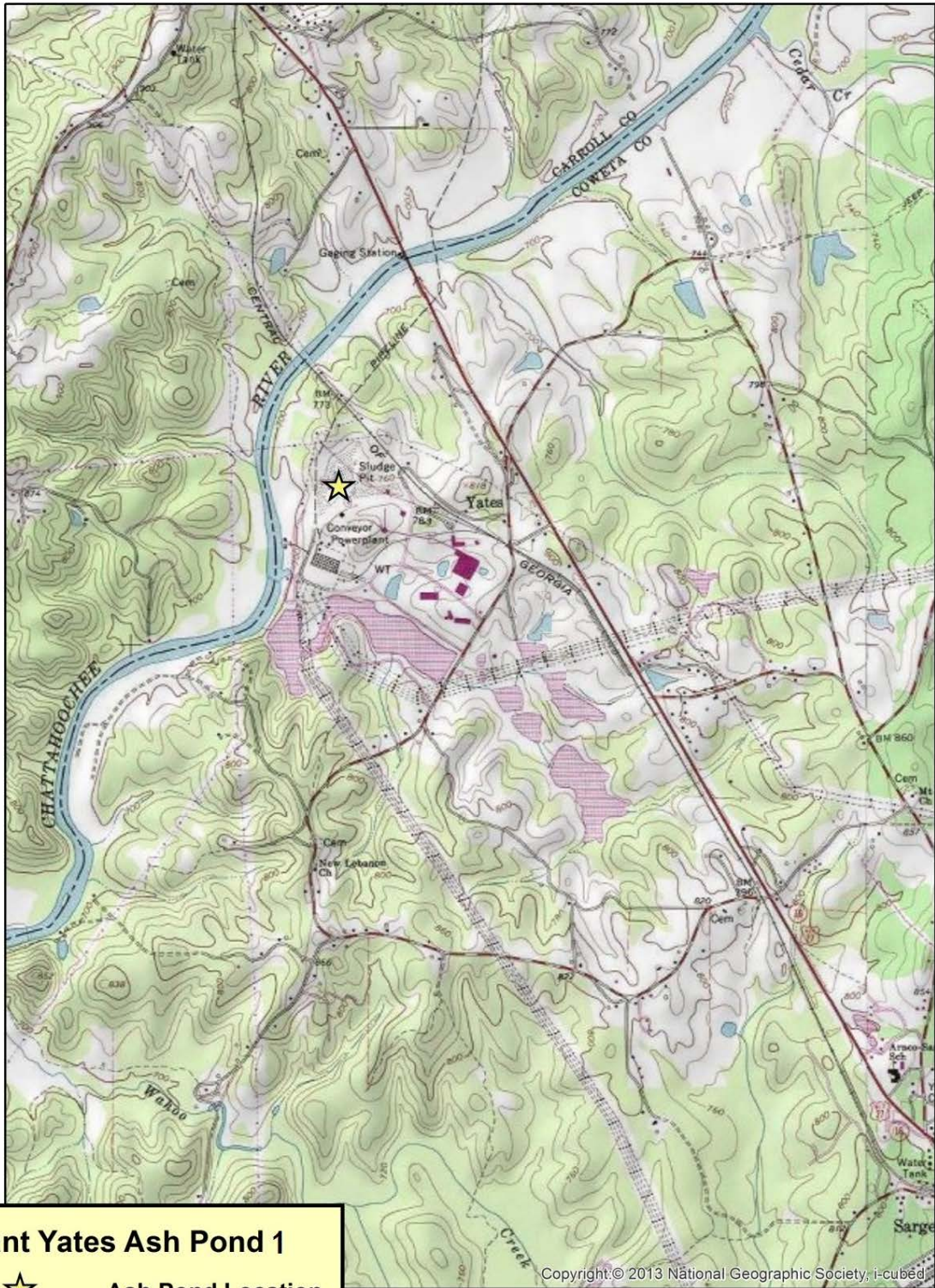
Construction specifications:

Design drawings showing the original plans for construction of AP-1 can be found in the appendix.

(xii) Known record of structural instability:

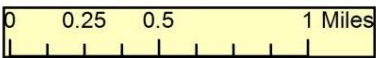
There is no known record of structural instability at the CCR unit.

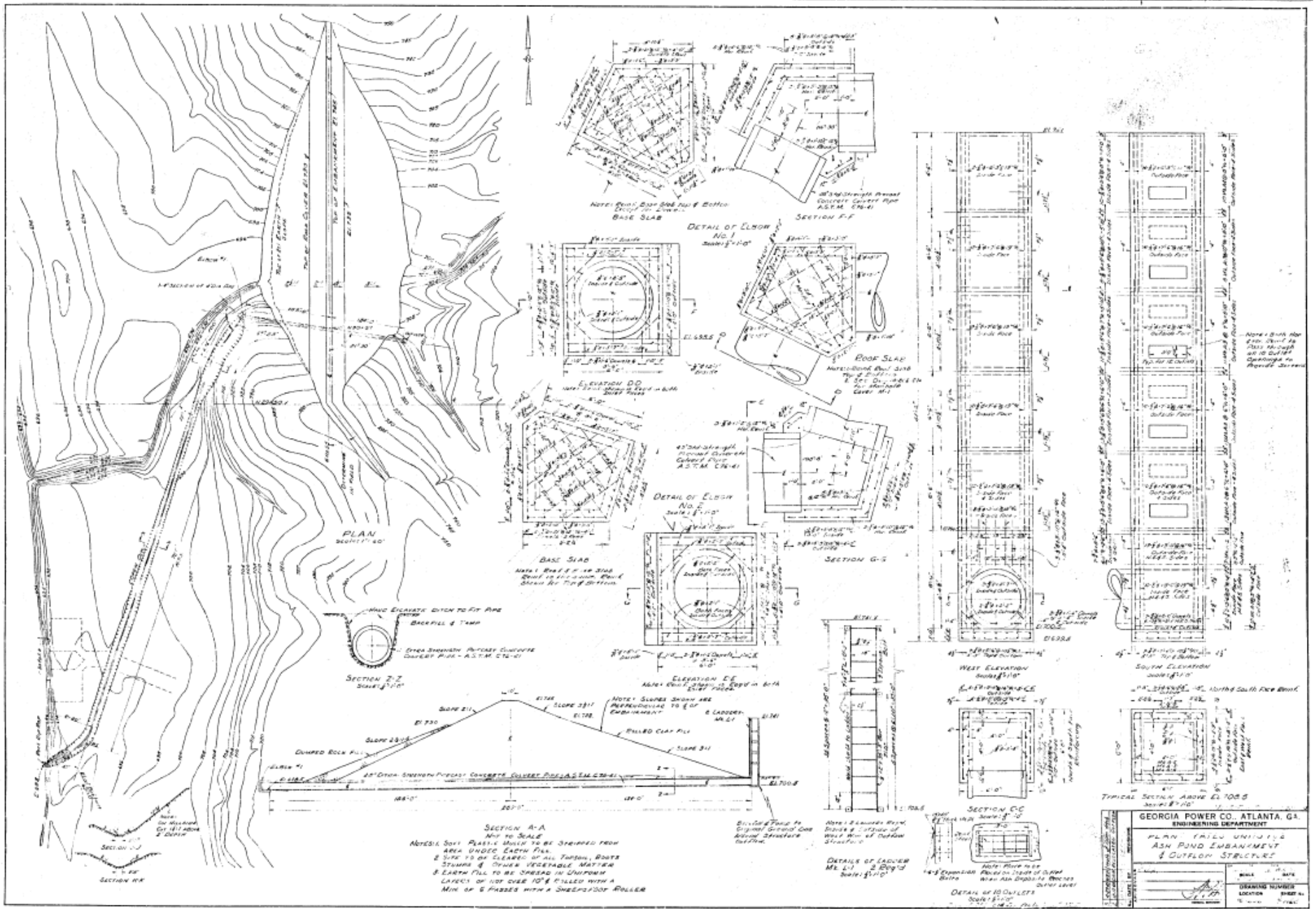
Appendix



Plant Yates Ash Pond 1

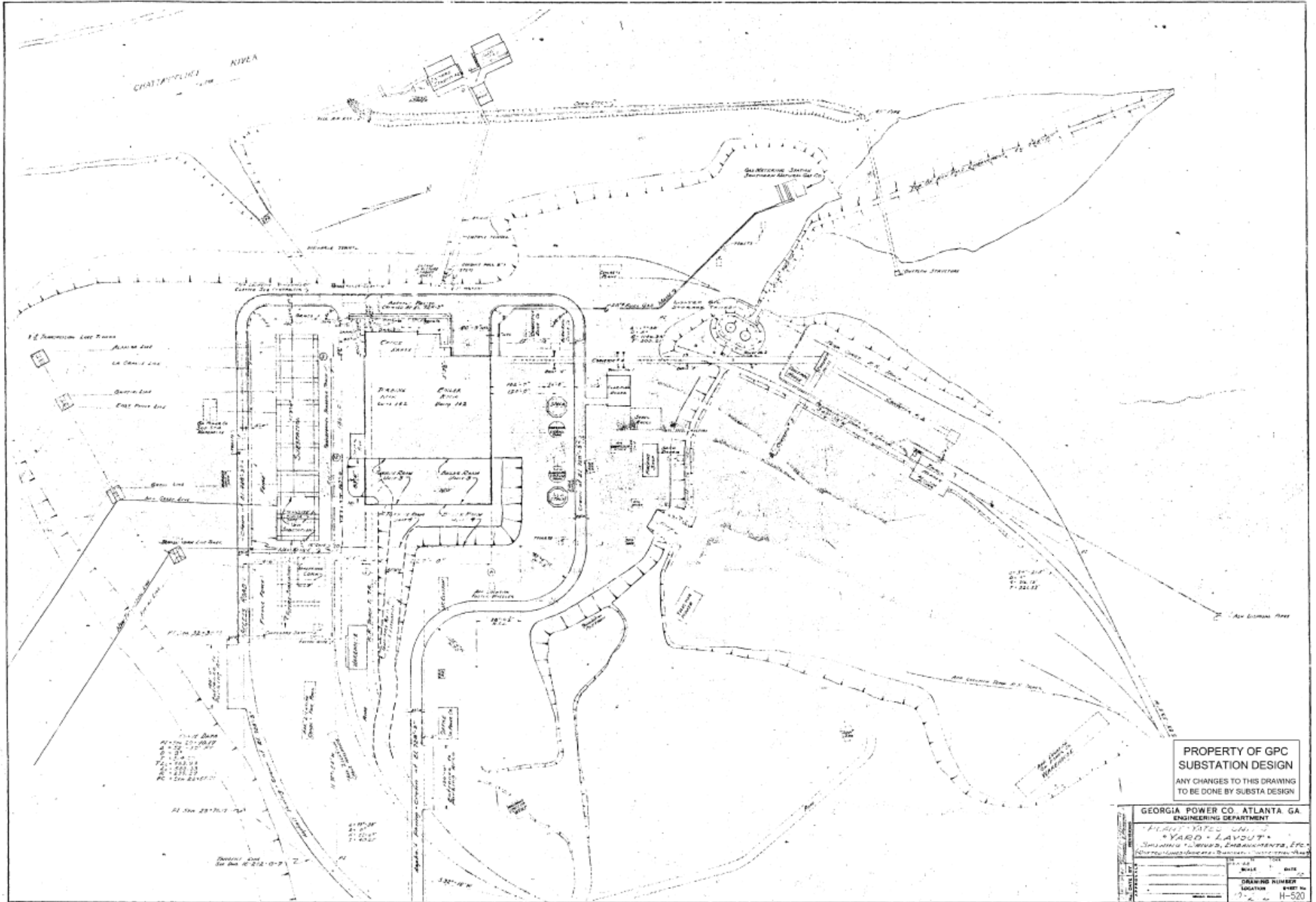
N ☆ Ash Pond Location
▲ USA Topo Maps





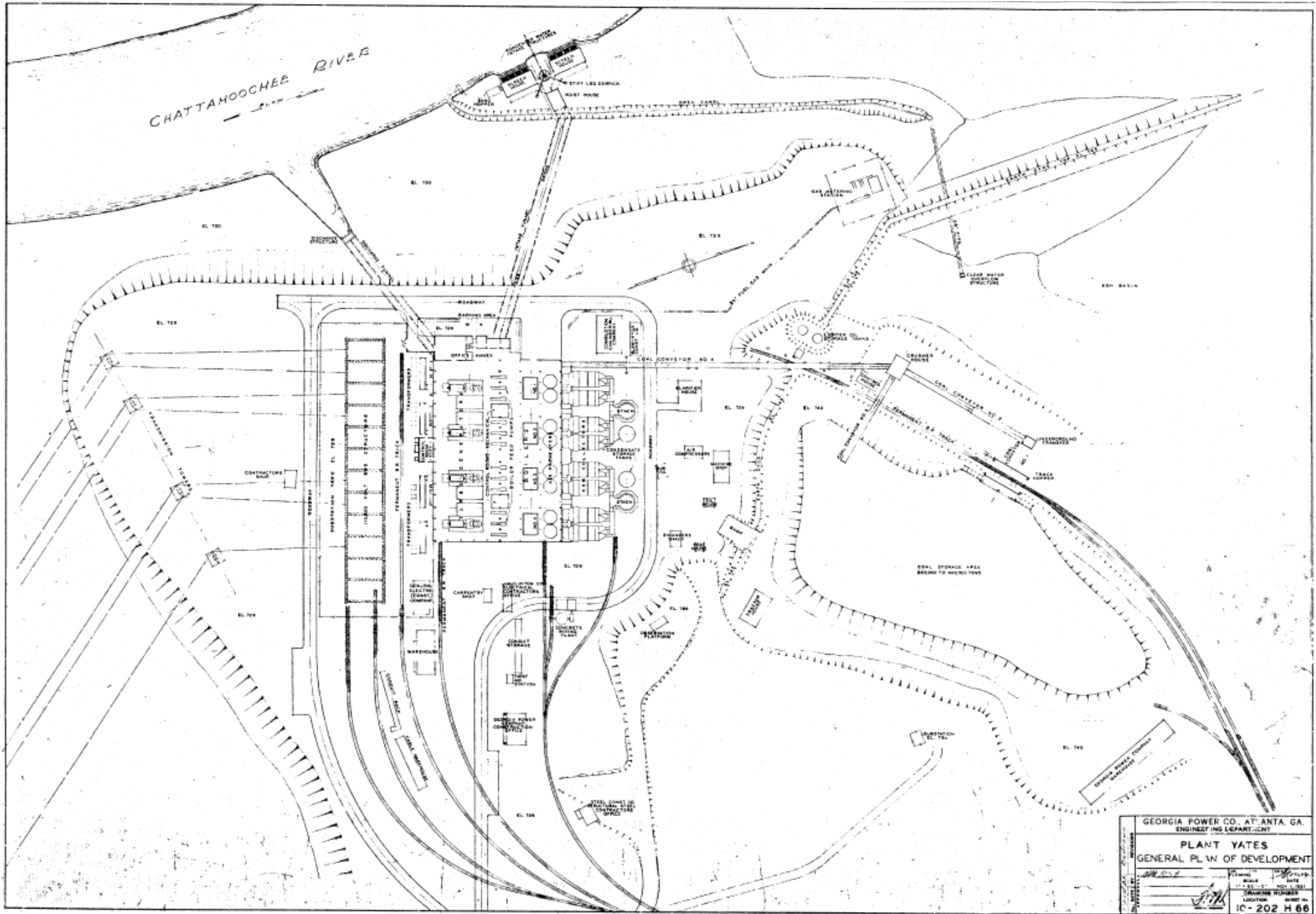
SECTION A-A
 1/4" = 10' SCALE
 ASPHALT SOFT PAVEMENT SHALL BE STRIPPED FROM
 AREA UNDER EACH FILL
 2" SIZE 10 # CLEANED UP ALL TRUNKS, ROOTS
 STUMPS & OTHER VEGETABLE MATTER
 & EARTH FILL TO BE SPREAD IN UNIFORM
 LAYERS OF 10" OVER 10' & FILLED WITH A
 MIN. OF 6 PASSES WITH A SHEEPFOOT ROLLER

GEORGIA POWER CO., ATLANTA, GA. ENGINEERING DEPARTMENT	
PLAN, TRUSS UNITS ASH POND EMBANKMENT & OUTLET STRUCTURE	
SCALE	DATE
DRAWING NUMBER	SECTION
SHEET NO.	TOTAL SHEETS

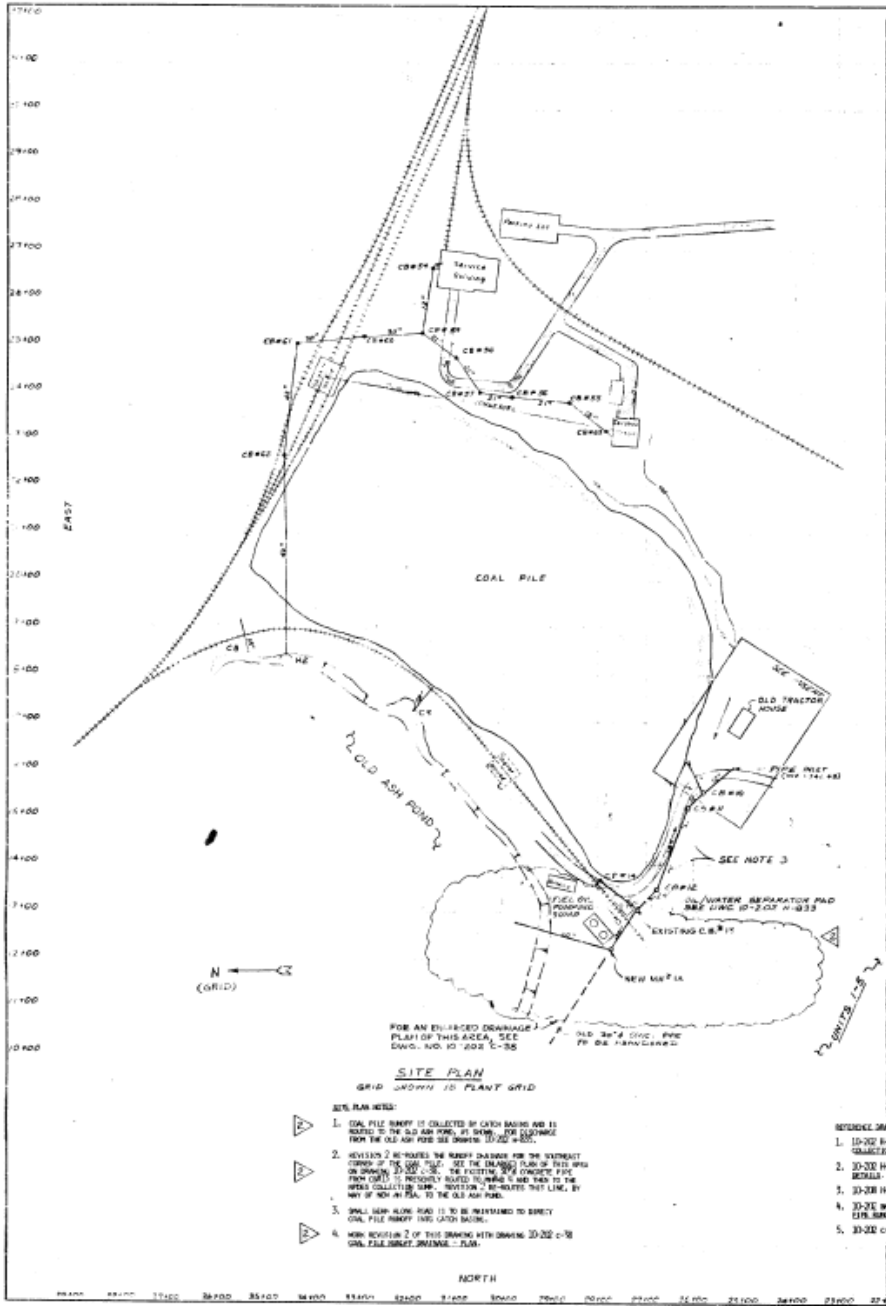


PROPERTY OF GPC
 SUBSTATION DESIGN
 ANY CHANGES TO THIS DRAWING
 TO BE DONE BY SUBSTA DESIGN

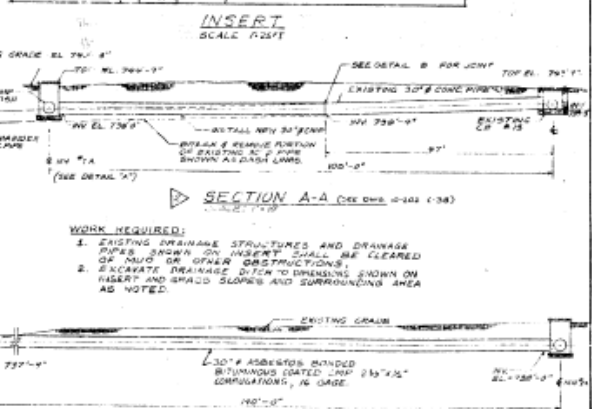
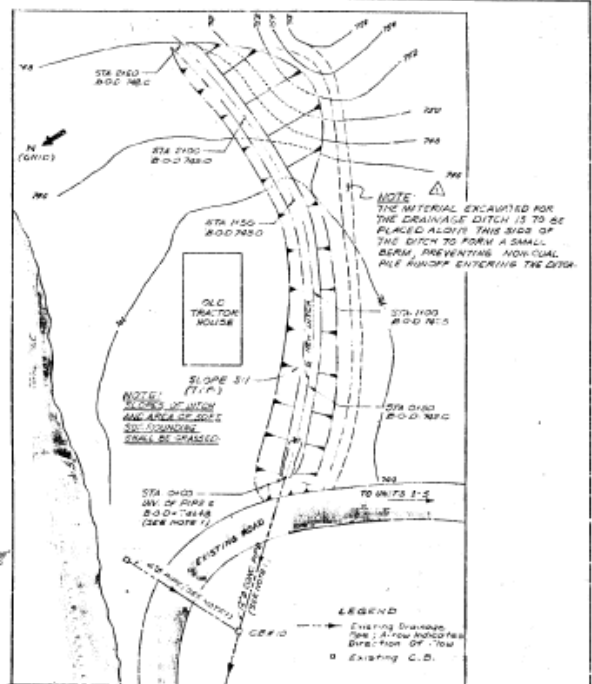
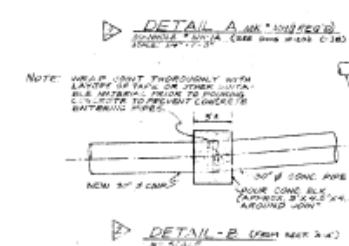
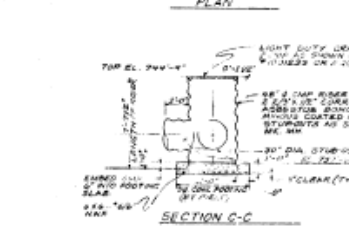
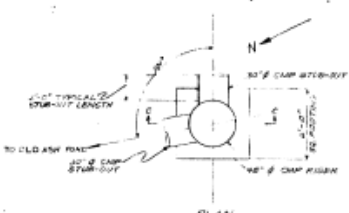
GEORGIA POWER CO. ATLANTA, GA. ENGINEERING DEPARTMENT			
PROJECT NO. 100-1000 YARD LAYOUT INCLUDING TRANSFORMERS, EQUIPMENT, ETC. SHOWING CONDUIT ROUTING, ETC.			
DATE	BY	SCALE	DATE
DRAWING NUMBER		SHEET NO.	
100-1000-100		H-520	



GEORGIA POWER CO., ATANTA, GA.
 ENGINEERING DEPARTMENT
PLANT YATES
 GENERAL PLAN OF DEVELOPMENT
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Blank]
 SCALE: [Blank]
 DRAWING NUMBER: [Blank]
 LOCATION: [Blank]
 SHEET NO. IC-202 H 66



LATCH BASIN	RIM ELEV.	INVERT ELEV.
82	742.25	742.22
83	743.12	743.08
84	744.50	744.21
85	745.50	745.22
86	746.80	746.10
87	747.00	747.00
88	749.12	749.00
89	749.50	749.25
90	749.42	749.22
91	749.42	749.22
92	749.42	749.22
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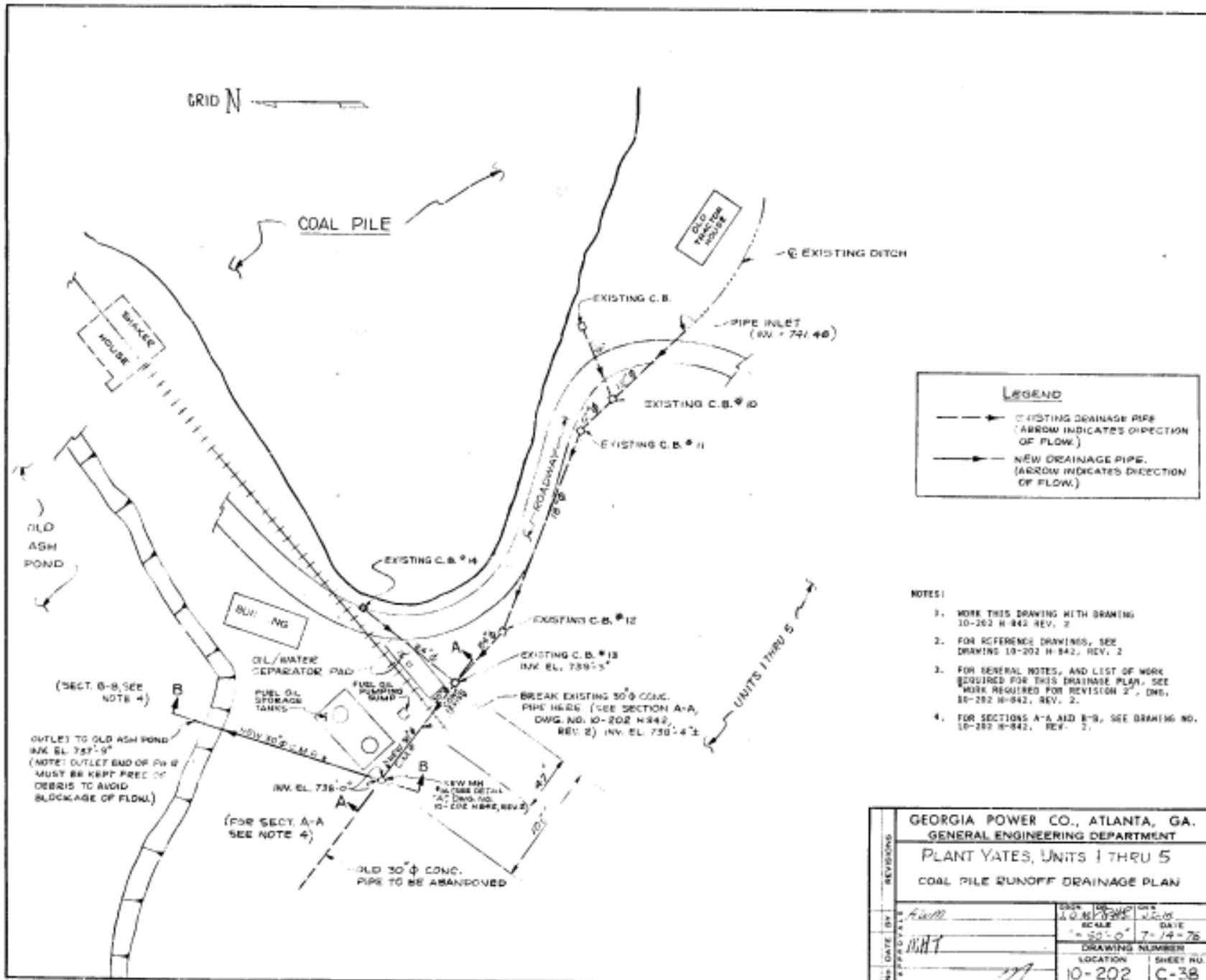
WORK REQUIRED:

1. EXISTING DRAINAGE STRUCTURES AND DRAINAGE PIPES SHOWN ON INSERT SHALL BE CLEARED OF GROUT OR OTHER OBSTRUCTIONS.
2. EXCAVATE DRAINAGE DITCH TO DIMENSIONS SHOWN ON INSERT AND GRADE SLOPES AND SURROUNDING AREA AS NOTED.

MAN POWER FOR SECTION 2:

1. Rough Excavate 30" x 30" Pipe Trench at a Distance of 50' from Existing Catch.
2. Install New 30" x 18" as shown on site plan, and Detail A.
3. Install New 30" x 18" from Street to Existing Catch, plus 10' to 12' to 14' and from 18' to 12' to Old Ash Pond. See Section A-A and B-B.
4. This work should be done during a period of anticipated dry weather. After making the bank to the existing 30" x 18" pipe, the installation of the work should be completed as soon as possible to prevent erosion around the catch area and to prevent soil being carried to the 30" x 18" when on heavy 18-22" rain.

GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT LOCAL PILE RUNOFF DRAINAGE DITCH		DATE: 10-202-1 DRAWN BY: J.E.W. CHECKED BY: J.E.W. DRAWING NUMBER: 10-202-1-B-2
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LEGEND

- (arrow) — EXISTING DRAINAGE PIPE (ARROW INDICATES DIRECTION OF FLOW)
- (arrow) — NEW DRAINAGE PIPE (ARROW INDICATES DIRECTION OF FLOW)

- NOTES:**
1. WORK THIS DRAWING WITH DRAWING 10-202 H-842, REV. 2
 2. FOR REFERENCE DRAWINGS, SEE DRAWING 10-202 H-842, REV. 2
 3. FOR GENERAL NOTES, AND LIST OF WORK REQUIRED FOR THIS DRAINAGE PLAN, SEE WORK REQUIRED FOR REVISION 2', DWG. 10-202 H-842, REV. 2.
 4. FOR SECTIONS A-A AND B-B, SEE DRAWING NO. 10-202 H-842, REV. 2.

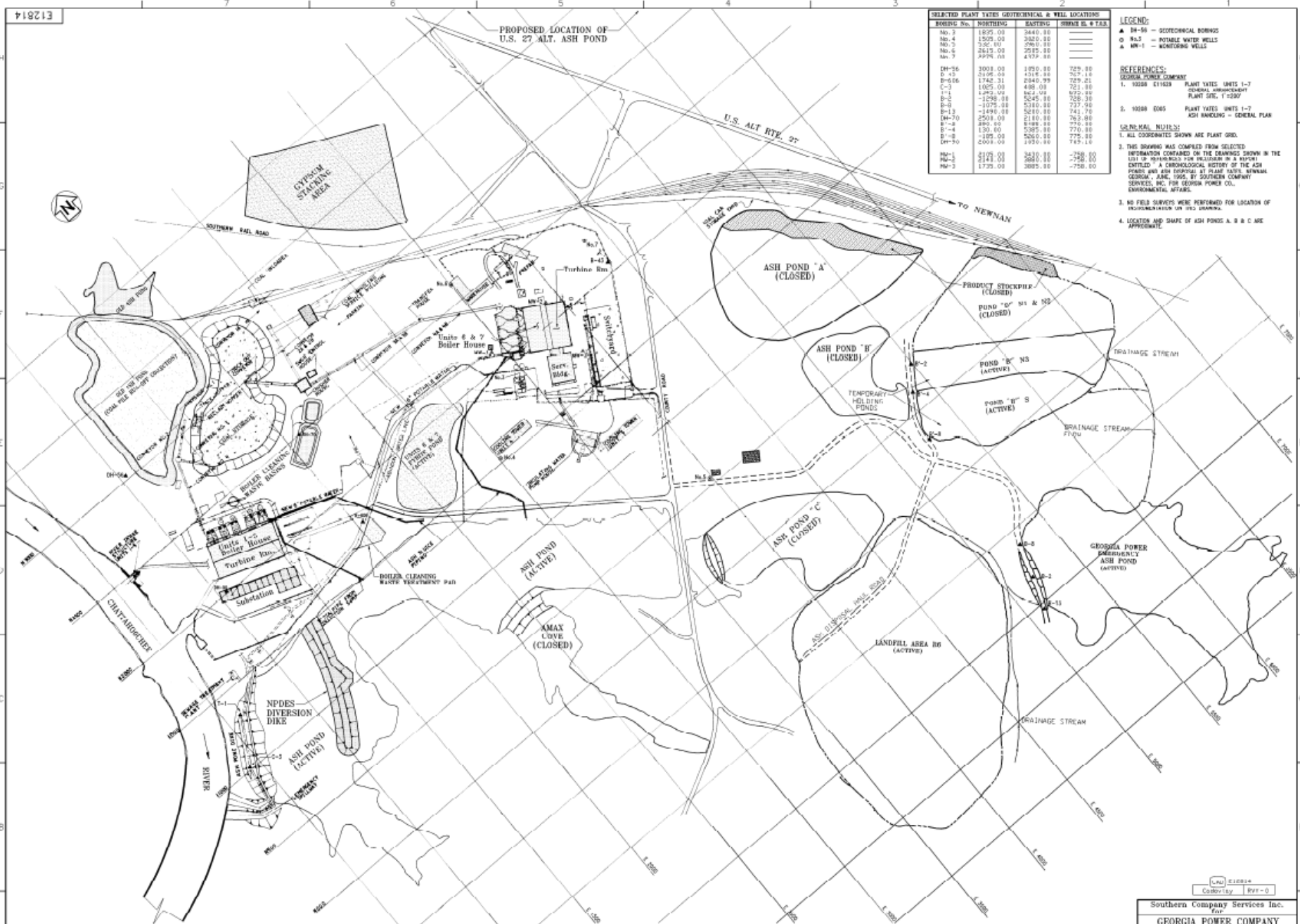
GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT	
PLANT YATES, UNITS 1 THRU 5 COAL PILE RUNOFF DRAINAGE PLAN	
DESIGNED BY <i>A. J. ...</i>	CHECKED BY <i>J. O. ...</i>
DRAWN BY <i>J. H. ...</i>	DATE 7-14-76
SCALE 1" = 20'-0"	DRAWING NUMBER 10-202
LOCATION YATES	SHEET NO. C-38

PROPOSED LOCATION OF U.S. 27 ALT. ASH POND

BORING No.	NORTHING	EASTING	DEPTH IN FEET
NO. 1	1875.00	2440.00	225.00
NO. 4	1505.00	3020.00	125.00
NO. 7	325.00	2960.00	100.00
NO. 8	2415.00	2235.00	100.00
NO. 9	3955.00	4375.00	100.00
DM-36	3003.00	1870.00	725.00
D-15	1746.00	1714.00	725.10
D-16	1742.31	2945.99	729.21
C-3	1025.00	485.00	721.00
B-1	4795.00	5340.00	672.00
B-2	-1228.00	5245.00	728.30
B-3	-1075.00	5340.00	737.90
B-13	-1490.00	5210.00	741.70
DM-70	2501.00	2180.00	763.00
B-2	385.00	6185.00	770.00
B-4	130.00	5295.00	770.00
B-8	-105.00	5260.00	775.00
DM-70	2004.00	1930.00	745.10
RM-1	6171.00	3630.00	-750.00
RM-2	6795.00	3860.00	-750.00
RM-3	1735.00	3895.00	-750.00

LEGEND:
 ▲ BM-56 - GEOTECHNICAL BORING
 ○ R-4.5 - POTABLE WATER WELLS
 ▲ MW-1 - MONITORING WELLS

- REFERENCES:
 GEORGIA POWER COMPANY
 1. 10258 E11233 PLANT YATES UNITS 1-7 GENERAL ENVIRONMENTAL PLANT SFC. 1-2307
 2. 10258 E065 PLANT YATES UNITS 1-7 ASH HANDLING - GENERAL PLAN
- GENERAL NOTES:
 1. ALL COORDINATES SHOWN ARE PLANT GRID.
 2. THIS DRAWING WAS COMPILED FROM SELECTED INFORMATION CONTAINED ON THE DRAWINGS SHOWN IN THE LIST OF REFERENCES FOR PROJECTS IN A HISTORY ENTITLED "A CHRONOLOGICAL HISTORY OF THE ASH POND AND ASH DISPOSAL AT PLANT YATES, NEWNAN, GEORGIA, JUNE, 1995, BY SOUTHERN COMPANY SERVICES, INC. FOR GEORGIA POWER CO., ENVIRONMENTAL AFFAIRS.
 3. NO FIELD SURVEYS WERE PERFORMED FOR LOCATION OF RECONSTRUCTION ON THIS DRAWING.
 4. LOCATION AND SHAPE OF ASH PONDS A, B & C ARE APPROXIMATE.



REVISION		DATE	REVISION		DATE	REVISION		DATE	REVISION		DATE	REVISION		DATE	REVISION		DATE	REVISION		DATE	REVISION		DATE	REVISION		DATE	
Southern Company Services Inc. Georgia Power Company PLANT YATES COMPILATION OF ASH POND, ASH STORAGE, MONITORING WELLS and BOILER CLEANING WASTE BASINS LOCATIONS ISSUED FOR RECORD SUMMARY SCALE LOCATION PROJECT NUMBER REV. RT RCW FROM APPALACHIAN SELLER WORKSHEET T-2002 10202 E12814 0																											