

**HISTORY OF CONSTRUCTION**  
**40 C.F.R. § 257.100(f)(2)(ii) and 40 C.F.R. § 257.73(c)(1)(i)-(xii)**  
**PLANT MITCHELL ASH POND 1 (AP-1)**  
**GEORGIA POWER COMPANY**

A rule amendment to the Federal Coal Combustion Residuals (CCR) Rule (40 C.F.R. Part 257) became effective on November 8, 2024. See Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities; Legacy CCR Surface Impoundments, 89 Fed. Reg. 38950 (“Legacy Rule”). The Legacy Rule defines the term “legacy CCR surface impoundment” and establishes regulatory requirements for units that meet the definition of a legacy CCR surface impoundment. The Legacy Rule requires the owner or operator of a legacy CCR surface impoundment to compile a history of construction. See 40 C.F.R. § 257.100(f)(2)(ii); 40 C.F.R. § 257.73(c)(1)(i)-(xii). To the extent feasible, the information is provided in the following sections.

***(i) Site Name and Ownership Information:***

Site Name:	Plant Mitchell
Site Location:	Albany, Georgia
Site Address:	5200 Radium Springs Road Albany, GA 31705
Owner:	Georgia Power Company
Owner Address:	241 Ralph McGill Blvd NE Atlanta, GA 30308
Point of Contact:	Manager Environmental Affairs Georgia Power Company BIN 10221 241 Ralph McGill Blvd. Atlanta, GA 30308 (404) 506-6505
CCR Impoundment Name:	Plant Mitchell Ash Pond 1 (AP-1)
Identification Number:	CCR Permit No. 047-024D(CCR)

***(ii) CCR Unit Location Map:***

31.437867 N, 84.133828 W

See Location Map in Appendix A.

***(iii) Purpose of CCR Unit:***

Plant Mitchell was a power generating facility that historically operated as a coal fired facility and ceased generating electricity in April 2015. The Plant Mitchell Ash Pond 1 (AP-1) was constructed as a part of three coal combustion residuals (CCR) surface impoundments to store CCR from the former coal-fired electric plant. AP-1 encompasses approximately 53-acres. AP-1 was in operation from December 1962 and ceased operations in early 1980.

***(iv) Watershed Description:***

AP-1 is located within the Miller Springs-Flint River Subwatershed (HUC – 031300080206). The Miller Springs-Flint River Subwatershed encompasses 23,713 acres and is part of the larger Lower Flint Watershed Subbasin (HUC 8 – 03130008) which encompasses 815,602 acres. No drainage from the watershed flows onto AP-1.

***(v) Description of Physical and Engineering Properties of CCR Unit Foundation/Abutments:***

AP-1 is in East Gulf Coastal Plain physiographic province of Georgia in the Dougherty Plain physiographic district, along the district's eastern boundary with the Tifton Uplands physiographic district (Clark and Zisa, 1976). The boundary with Tifton Uplands is delineated by the Pelham Escarpment, denoted by the distinct transition from rolling hills in the east to a generally flat lying region gently sloping to the southeast. The Dougherty Plain is characterized as a karst terrain consisting of solutional features including caves, ephemeral streams, springs, and sinkholes which manifest at the ground surface as shallow depressions.

The foundation soils at AP-1 consist of quaternary stream alluvium and undifferentiated terrace deposits along the Flint River. The underlying bedrock is the Ocala Limestone of Eocene age.

***(vi) Summary of Site Preparation and Construction Activities:***

AP-1 construction began in January 1962 as a part of Plant Mitchell Unit No. 3 expansion. The dam crest elevation was 192 ft-msl with a designed full pond elevation of 191 ft comprising an area of about 53 acres.

Borrow material for construction of the dam was taken from inside the footprint of AP-1. AP-1 was in operation from December 1962 to early 1980.

The material used to construct the perimeter dam of AP-1 was sourced from the residuum material within the AP-1 footprint during its construction. The material is generally clayey silty sand to sandy silty clay and was compacted to build the perimeter dam. The interior and exterior side slopes of the dam were constructed to 1.5H:1V. The crest is 10 ft wide.

The Notification of Intent to Initiate Closure of AP-1 was placed in the Operating Record in October 2019. AP-1 no longer receives CCR and is currently undergoing closure by removal wherein CCR material is being removed and transported by rail and/or by truck for disposal at an approved landfill or for beneficial use at cement manufacturing facilities in accordance with CCR Permit No. 047-024D(CCR).

***(vii) Engineering Diagrams:***

The following drawings reflecting dimensional drawings of AP-1 can be found in Appendix A:

- Georgia Power Company Drawing H5328: General Site Layout
- Georgia Power Company Drawing H5329: Ash Pond Surveillance Map
- Georgia Power Company Drawing H-2501: AP-1 Topographic Map
- Georgia Power Company Drawing H-2503: AP-1 Dike Layout – Plan and Sections
- Georgia Power Company Drawing H-2505: AP-1 Overflow Structure
- Georgia Power Company Drawing H-2559: Proposed Ash Pond Additions
- Georgia Power Company Drawing H-2579: Ash Pond Discharge/Recycle Structure

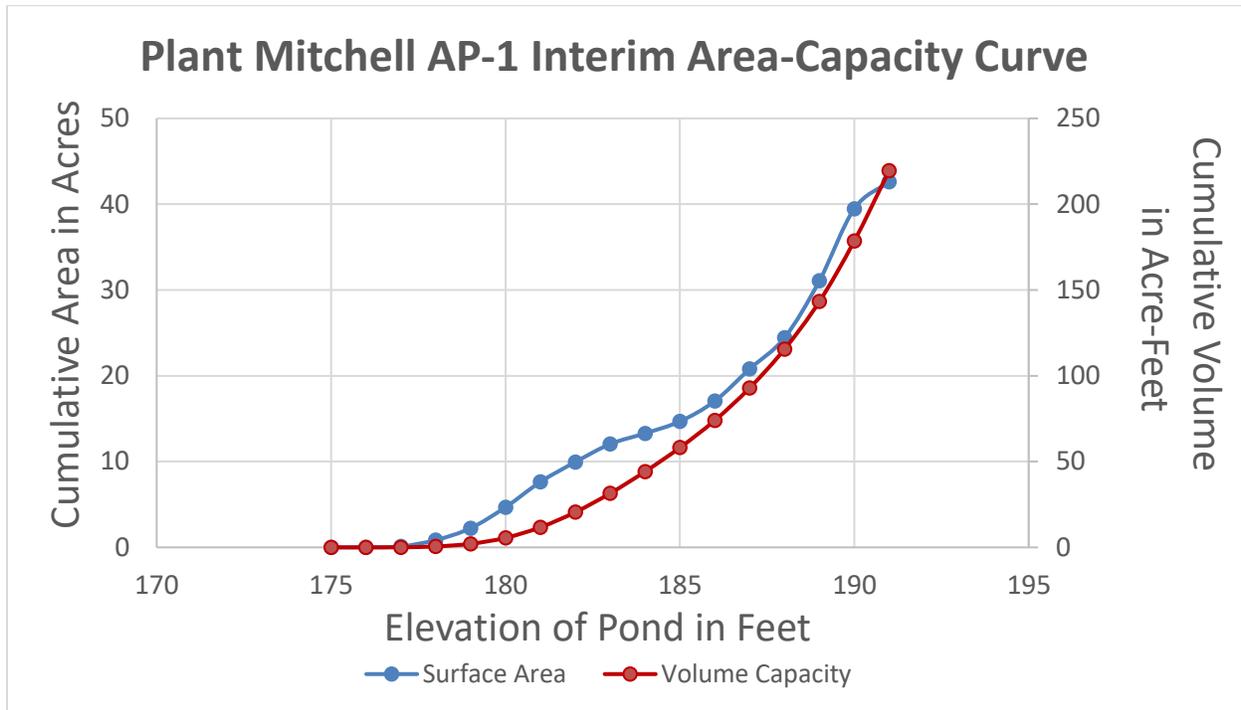
***(viii) Description of Instrumentation:***

AP-1 has four remaining piezometers (P1NB, P1SB, P1NT and P1ST) that are being read on a 30-day basis as part of a Dam Safety and Surveillance Program for Plant Mitchell.

***(ix) Area-Capacity Curves:***

At the time of this submittal, AP-1 is undergoing closure activities by excavating the CCR and transporting it to a permitted off-site disposal facility or beneficial use. The interim conditions during closure work were evaluated, and a stage-storage analysis of AP-1 was performed considering the hydrologic conditions of the ash pond as captured through LiDAR survey in January 2025. The topography analyzed represents

construction conditions, in-progress, towards the closure-by-removal of AP-1. The closure work has progressed to the point that AP-1 can accommodate all runoff from the AP-1 basin portion of the closure.



**Table 1: Stage-Storage for AP-1 Based on January 2025 Survey**

Elevation	Cumulative Volume (acre-feet)
175	0.0
180	5.5
185	58.1
190	178.5
191	219.6

***(x) Spillway and Diversion Design Features and Capacity Calculations:***

The normal pool elevation of AP-1 was functionally maintained by the ring road atop the berm at elevation 191.0 feet. AP-1 currently does not have a spillway or discharge structure that passes through or under

the embankment. The original primary discharge riser structure was located in the southwest corner of AP-1 and was abandoned by removal as a part of the closure-by-removal construction, while the discharge pipe from the riser structure was grouted in place within the dam in 2017.

The design storm for AP-1 is a 24-hour, 1,000-year storm event with a rainfall of 12.0 inches. Based on the stage-storage analysis of AP-1, the interim condition of the pond is capable of storing the runoff from this storm event without overtopping.

***(xi) Construction Specifications and Provisions for Surveillance, Maintenance and Repair:***

Design drawings associated with the construction of AP-1 can be found in Appendix A. Construction specifications for the AP-1 construction were not available.

Inspections of the AP-1 dam are conducted semiannually by professional dam safety engineers and on a seven-day interval by trained plant personnel. In addition, inspections are performed after periods of heavy rainfall and storms. The inspections provide assurance that the structures are sound and that any issues noted are addressed in a timely manner, as needed, based on the findings. Seven-day inspections include numerous items including pond levels, weather conditions and rainfall since the prior inspection, conditions of slopes and drains, erosion, animal damage, ant hills, alignment of retaining structures and more. During semiannual inspections, dam safety engineers assess instrument readings, inspect any maintenance or remediation performed since the previous inspection, check the status of work recommended at prior inspections, ensure that the posting of emergency notification information is up to date and evaluate any items noted during plant personnel inspections.

The water levels in the remaining four piezometers under the Dam Safety and Surveillance Program for Plant Mitchell are being read on a 30-day basis to evaluate the trends and determine if unusual conditions occur that would impact the safety or stability of AP-1.

***(xii) Known Record of Structural Instability:***

There are currently no known stability issues with AP-1. Review of historical project documents showed AP-1 had potential stability issues related to karst features in 1972 and 1973, both of which were

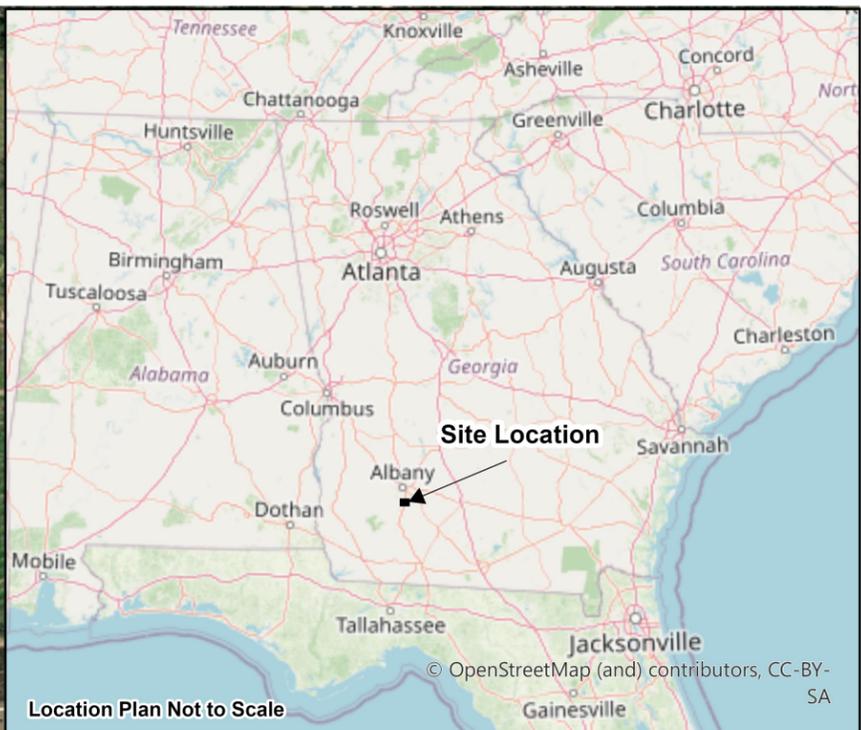
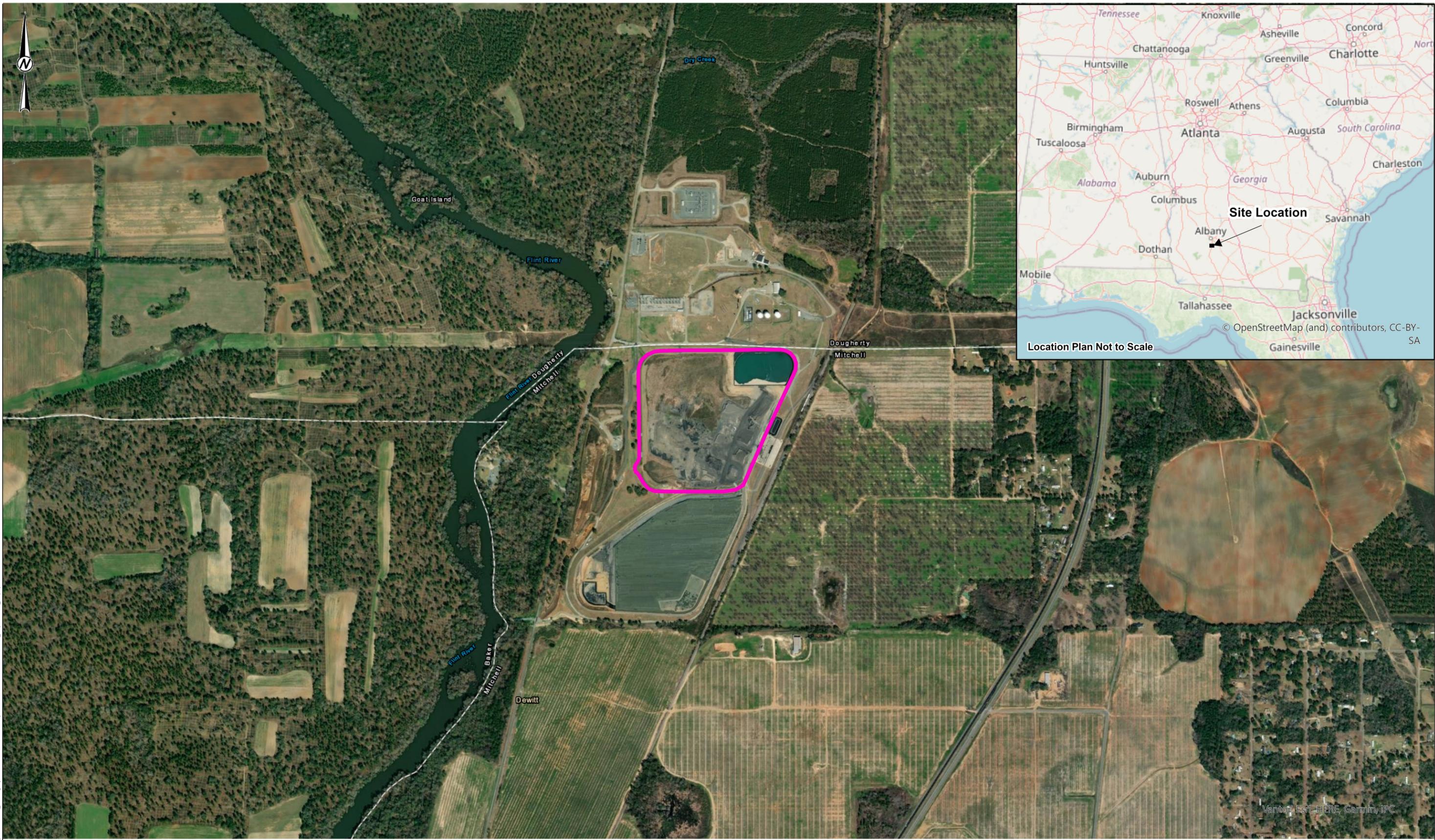
subsequently repaired. A downstream boil was encountered in July 1978 and repaired. Repairs of dam stability issues were recorded in February 1980, September 1982, and September 1983.

A karst feature along the toe of AP-1 near its northeast corner was repaired in November 2023 following discovery. No impacts to AP-1 and its perimeter dam were observed from the karst feature and no further issues were noted.

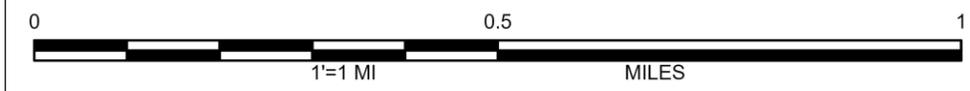
**Reference:**

Clark, W. Z. and Zisa, A. C. (1976). *Physiographic Map of Georgia*. Georgia Geologic Survey Map SM-4, Georgia Department of Natural Resources.

## **APPENDIX A**



APPROXIMATE LIMITS OF PLANT MITCHELL ASH POND 1



CLIENT  
SOUTHERN COMPANY SERVICES, INC. (SCS)



PROJECT  
CCR LEGACY UNITS DESIGN CRITERIA SUPPORT  
PLANT MITCHELL ASH POND 1

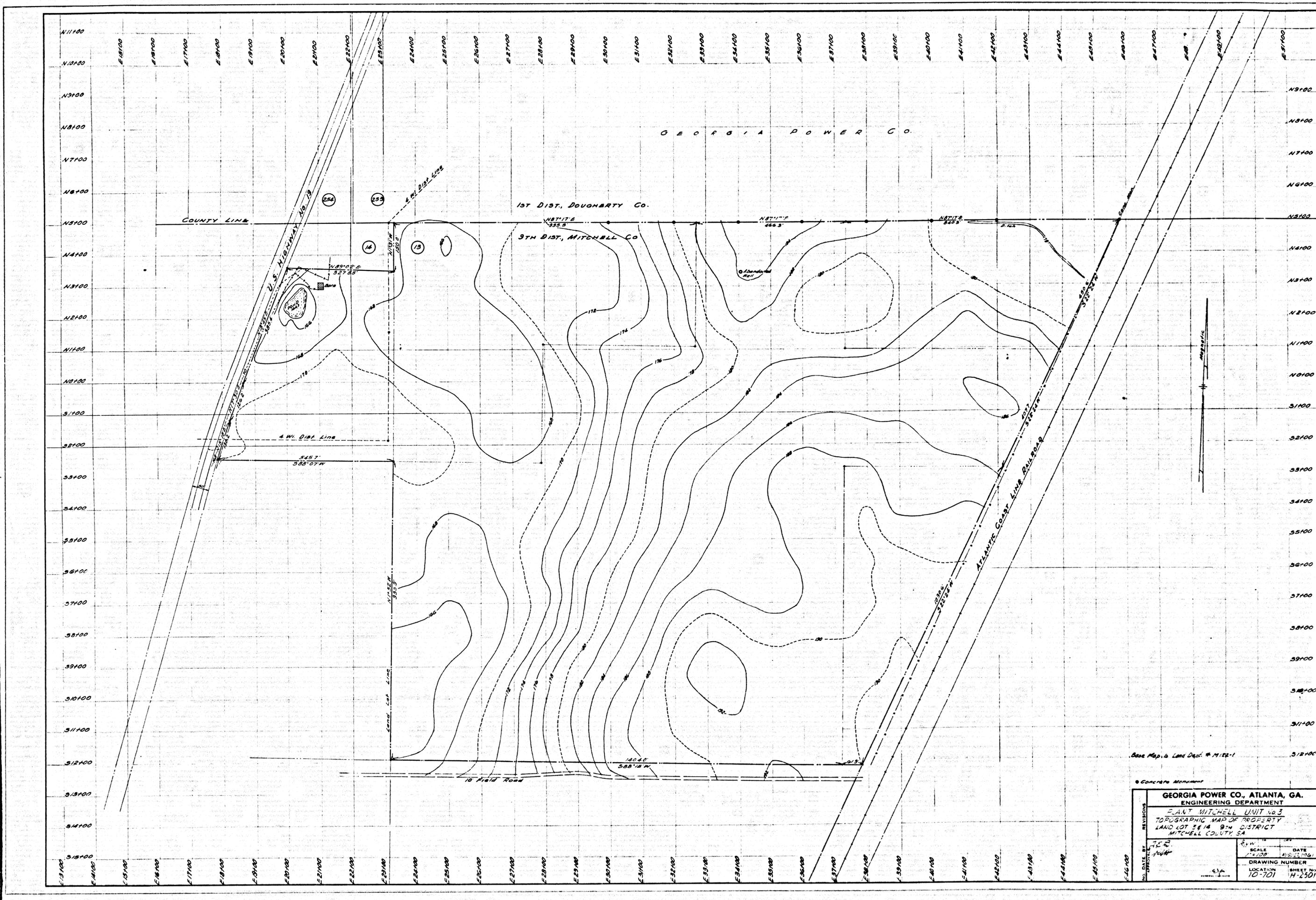
DATE	2026-01-16	TITLE	LOCATION MAP		
PREPARED	NRM	PROJECT No.	CONTROL	Rev.	FIGURE
REVIEW	PG	US0037149.0170		0	1
APPROVED	RGM				

Path: C:\Users\USM75669\OneDrive\Projects\01 History of Construction\AS-16\GIS\Location\_Map\Location\_Map.aprx

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANS B







GEORGIA POWER CO.

1ST DIST. DOUGHERTY CO.

9TH DIST. MITCHELL CO.

COUNTY LINE

U.S. HIGHWAY NO. 19

ATLANTIC COAST LINE RAILROAD

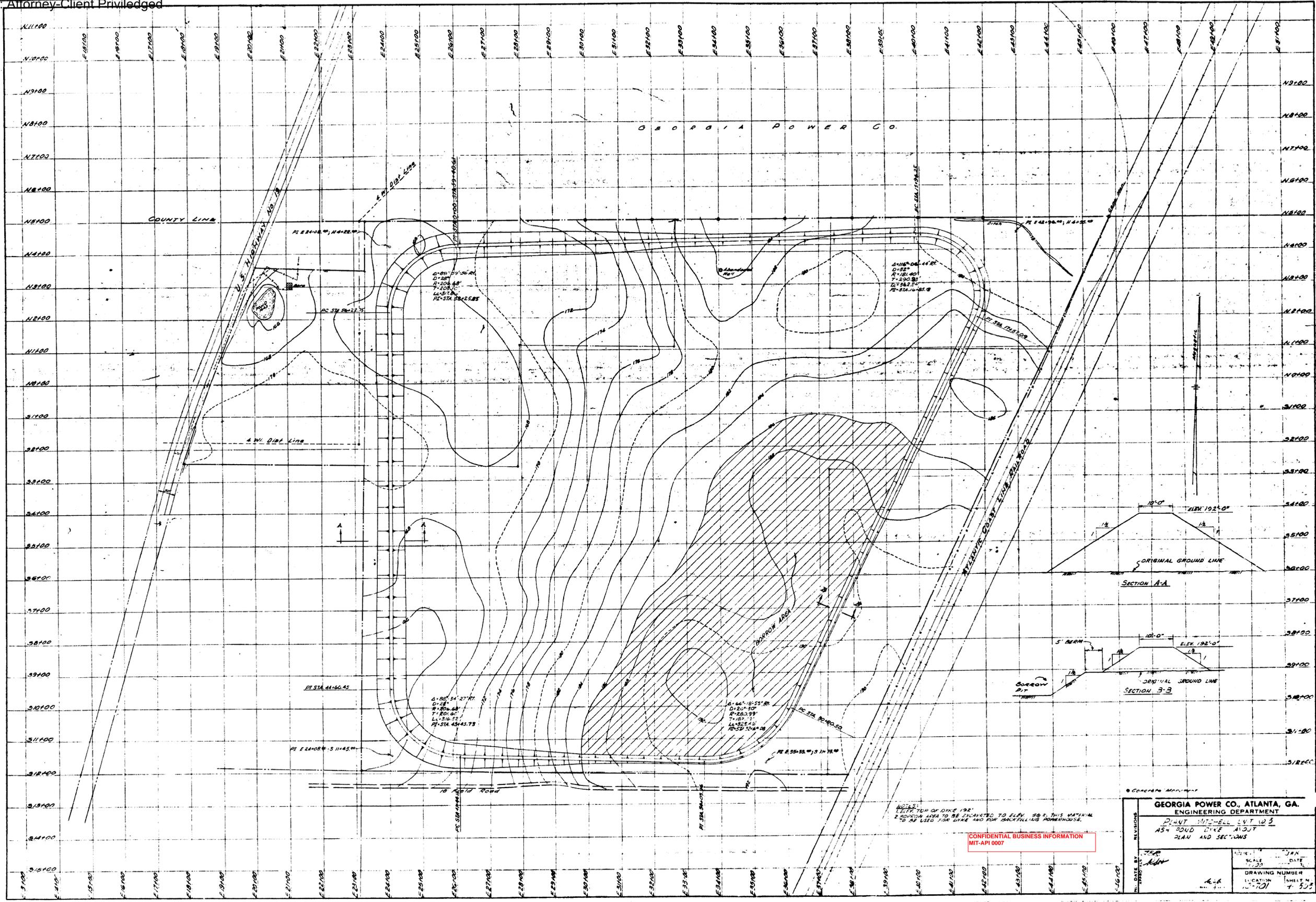
10 Field Road

Base Map is Land Dist. # 1112-1

<p>GEORGIA POWER CO., ATLANTA, GA. ENGINEERING DEPARTMENT</p>	
<p>EAST MITCHELL UNIT NO. 3 TOPOGRAPHIC MAP OF PROPERTY LAND LOT 16 1/4 9TH DISTRICT MITCHELL COUNTY, GA.</p>	
<p>DATE BY 10/1/51 JWH</p>	<p>SCALE 1" = 120'</p>
<p>DRAWING NUMBER 10-701</p>	<p>DATE 10/1/51</p>
<p>LOCATION 10-701</p>	<p>SHEET NO. 14-2501</p>



Concrete Monument



GEORGIA POWER CO.

COUNTY LINE

U.S. HIGHWAY No. 78

PI STA 41+40.42

$\Delta = 89^{\circ} 59' 26''$   
 $D = 286.60'$   
 $T = 206.60'$   
 $L = 136.75'$   
 $PI - STA 43+43.73$

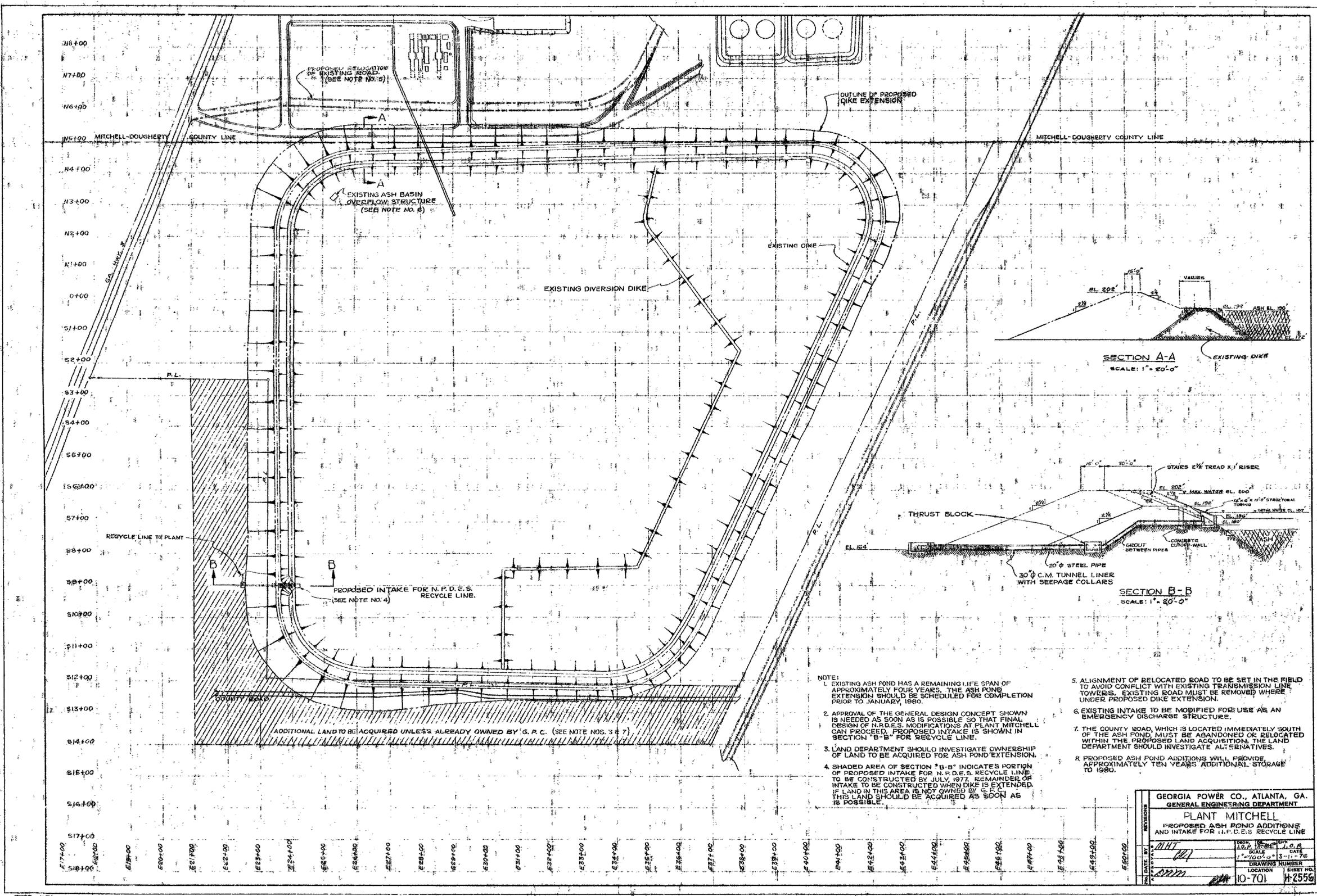
$\Delta = 66^{\circ} 18' 55''$   
 $D = 251.80'$   
 $T = 180.99'$   
 $L = 102.45'$   
 $PI - STA 30+43.08$

NOTES:  
 1. ELEV. TOP OF DAM 192'  
 2. TOURNOIR AREA TO BE DEDICATED TO ELEV. 38'. THIS NATURAL  
 3. TO BE USED FOR DIRT AND FOR BACKFILLING POWERHOUSE.

CONFIDENTIAL BUSINESS INFORMATION  
MIT-API 0007

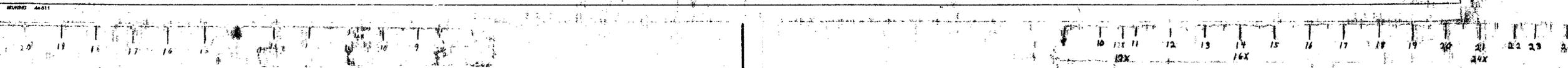
GEORGIA POWER CO., ATLANTA, GA. ENGINEERING DEPARTMENT	
PLANT MITCHELL UNIT NO. 3 ASH POND DIKE ABOUT PLAN AND SECTIONS	
DATE BY 7-20 [Signature]	SCALE 1" = 20' DRAWING NUMBER 15-701 SHEET NO. 503

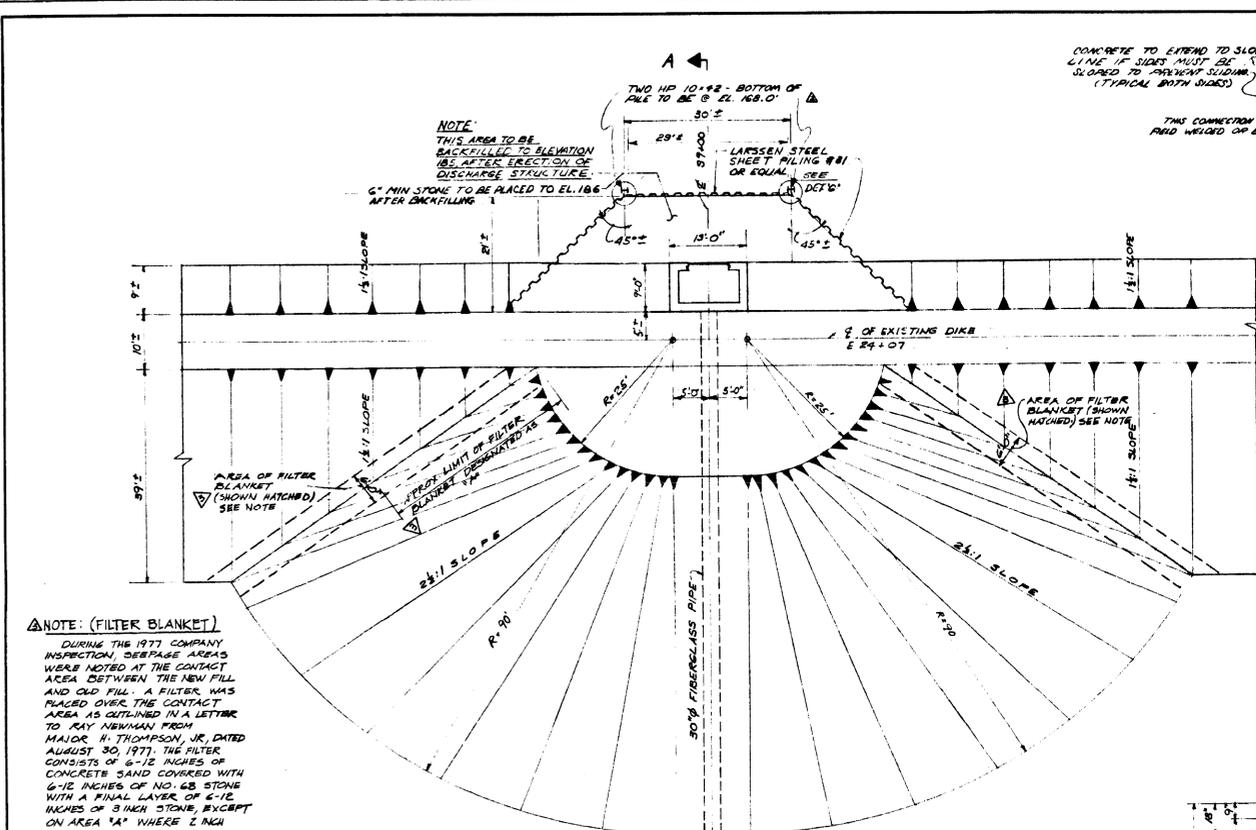




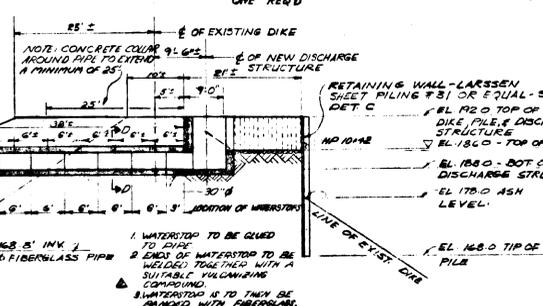
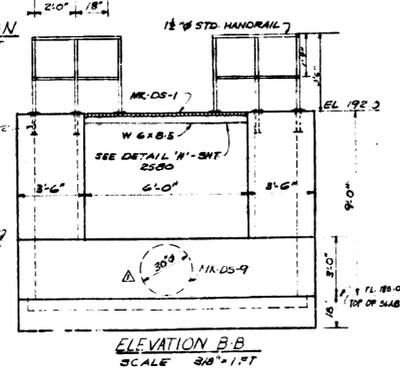
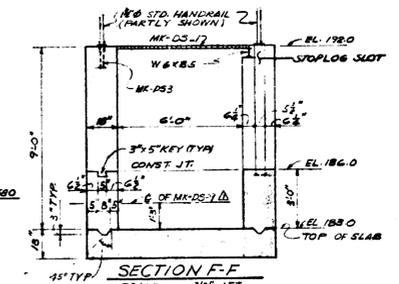
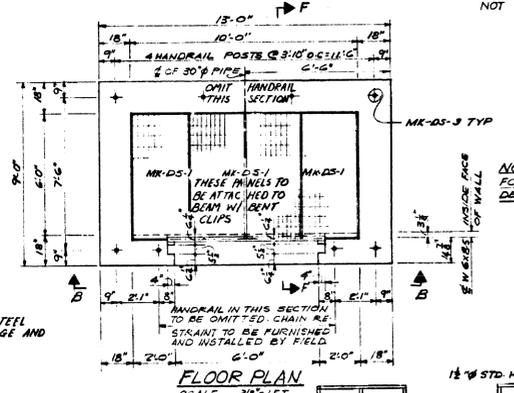
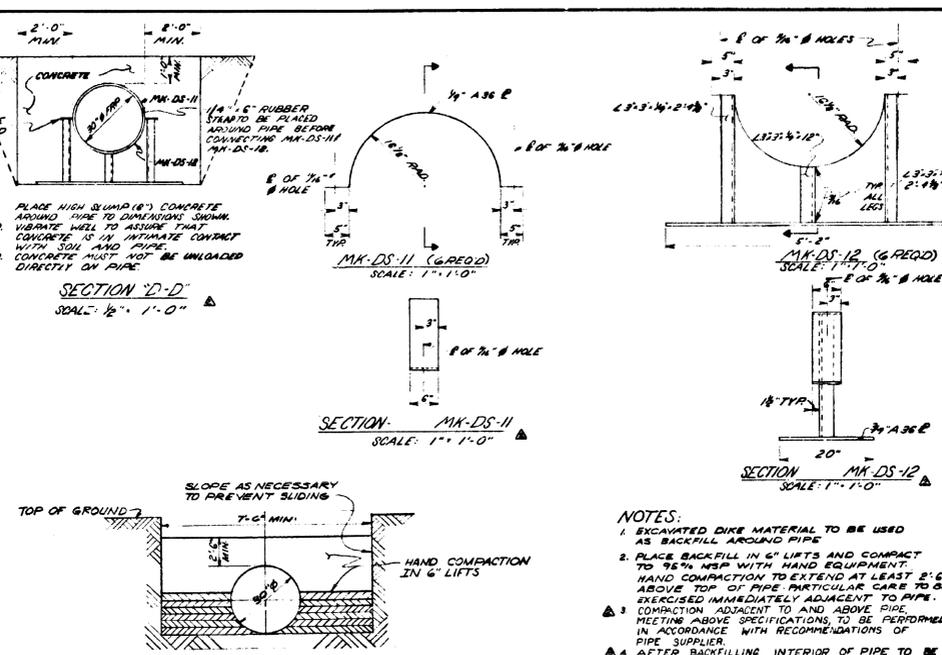
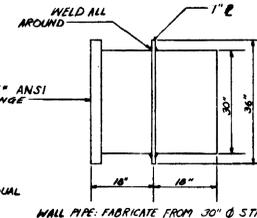
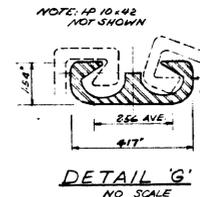
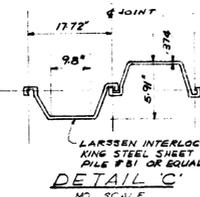
- NOTE:
- EXISTING ASH POND HAS A REMAINING LIFE SPAN OF APPROXIMATELY FOUR YEARS. THE ASH POND EXTENSION SHOULD BE SCHEDULED FOR COMPLETION PRIOR TO JANUARY, 1980.
  - APPROVAL OF THE GENERAL DESIGN CONCEPT SHOWN IS NEEDED AS SOON AS IS POSSIBLE SO THAT FINAL DESIGN OF N.P.D.E.S. MODIFICATIONS AT PLANT MITCHELL CAN PROCEED. PROPOSED INTAKE IS SHOWN IN SECTION "B-B" FOR RECYCLE LINE.
  - LAND DEPARTMENT SHOULD INVESTIGATE OWNERSHIP OF LAND TO BE ACQUIRED FOR ASH POND EXTENSION.
  - SHADED AREA OF SECTION "B-B" INDICATES PORTION OF PROPOSED INTAKE FOR N.P.D.E.S. RECYCLE LINE TO BE CONSTRUCTED BY JULY 1977. REMAINDER OF INTAKE TO BE CONSTRUCTED WHEN DIKE IS EXTENDED. IF LAND IN THIS AREA IS NOT OWNED BY G.P.C. THIS LAND SHOULD BE ACQUIRED AS SOON AS IS POSSIBLE.
  - ALIGNMENT OF RELOCATED ROAD TO BE SET IN THE FIELD TO AVOID CONFLICT WITH EXISTING TRANSMISSION LINE TOWERS. EXISTING ROAD MUST BE REMOVED WHERE UNDER PROPOSED DIKE EXTENSION.
  - EXISTING INTAKE TO BE MODIFIED FOR USE AS AN EMERGENCY DISCHARGE STRUCTURE.
  - THE COUNTY ROAD, WHICH IS LOCATED IMMEDIATELY SOUTH OF THE ASH POND, MUST BE ABANDONED OR RELOCATED WITHIN THE PROPOSED LAND ACQUISITION. THE LAND DEPARTMENT SHOULD INVESTIGATE ALTERNATIVES.
  - PROPOSED ASH POND ADDITIONS WILL PROVIDE APPROXIMATELY TEN YEARS ADDITIONAL STORAGE TO 1980.

GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT	
PLANT MITCHELL PROPOSED ASH POND ADDITIONS AND INTAKE FOR N.P.D.E.S. RECYCLE LINE	
DRAWN BY: <i>MHT</i> CHECKED BY: <i>WJ</i> DATE: <i>10/70</i>	SCALE: 1" = 20'-0" SHEET NO.: 10-701 DRAWING NUMBER: H-2559





**NOTE: (FILTER BLANKET)**  
 DURING THE 1977 COMPANY INSPECTION, DEBRIS AREAS WERE NOTED AT THE CONTACT AREA BETWEEN THE NEW FILL AND OLD FILL. A FILTER WAS PLACED OVER THE CONTACT AREA AS OUTLINED IN A LETTER TO RAY NEUMAN FROM MAJOR H. THOMPSON, JR. DATED AUGUST 30, 1977. THE FILTER CONSISTS OF 6-1/2 INCHES OF CONCRETE SAND COVERED WITH 6-1/2 INCHES OF NO. 68 STONE WITH A FINAL LAYER OF 6-1/2 INCHES OF 3 INCH STONE, EXCEPT ON AREA 'A' WHERE 2 INCH STONE WAS SUBSTITUTED DUE TO THE LIMITED AVAILABILITY OF 3 INCH STONE.



- GENERAL NOTES:**
1. ALL PIPES SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS FOR FIBERGLASS REINFORCED THERMOSETTING PLASTIC PIPE, FITTING AND HEADERS FOR PLANT MITCHELL.
  2. ALL PIPES SHALL BE DESIGNED FOR A MAXIMUM INTERNAL PRESSURE OF 25 PSIG.
  3. ALL PIPES SHALL BE DESIGNED IN ACCORDANCE WITH THE A.S.T.M. A 830 CONDITIONS.
  4. DURING EARTH WORK, INSPECTION AND QUALITY CONTROL ARE TO BE THE RESPONSIBILITY OF THE ENGINEERING DEPARTMENT OR THEIR APPOINTED REPRESENTATIVE. EARTHWORK IS TO BE DONE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE PROCEDURE FOR ASH POND CONSTRUCTION AT PLANT YATES.
  5. WATER LEVEL IN ASH POND SHOULD BE MAINTAINED AT EL. 186.0 OR LOWER DURING CONSTRUCTION.
  6. ALL CONCRETE REINFORCING STEEL, IMBEDDED ITEMS, AND FORMWORK SHALL BE PLACED AND INSTALLED IN ACCORDANCE WITH THE GEN. CONC. SPECS. OF G.P.C.

**REFERENCE DRAWINGS:**  
 10-701-H-2580-ASH POND DISCHARGE/RECYCLE STRUCTURE-REINFORCING & DETAILS  
 10-701-BM-2501-ASH POND DISCHARGE/RECYCLE STRUCTURE  
 10-701-BR-2505-ASH POND DISCHARGE/RECYCLE STRUCTURE  
 10-701-H-2582-A-4H SLUDGE RECYCLE & NEUTRALIZATION SYSTEM PIPING FROM ASH POND TO PLANT

GEORGIA POWER CO., ATLANTA, GA. GENERAL ENGINEERING DEPARTMENT			
PLANT MITCHELL ASH POND DISCHARGE/RECYCLE STRUCTURE			
DESIGNED BY AHT	CHECKED BY AHT	DATE 9/12/76	SCALE AS SHOWN
DRAWING NUMBER 10-701		SHEET NO. H-2511	

