

J. P. [Name], Director of Power Production, [Address]

J. E. [Name], Director of Engineering Design, [Address]

SEP 28 1971

URGENT [Name] - [Address] AND [Address]

Attached is a memorandum report from J. P. [Name] dated by J. E. [Name] dated September 22, 1971, of the September 2 joint field inspection at [Location] which includes recommendations for corrective work. I agree in these recommendations.

J. E. [Name]

ADMINISTRATIVE

**cc) J. P. [Name], [Address] (3) - w/3 attachments
Power Manager's File, [Address]**

J. B. Standeney, Head Civil Engineer (Highway and Railroad), 122 West

J. F. H. Stevens, Civil Engineer (Highway and Railroad), 122 West

September 21, 1971

ASHLAND DAM PLANT - ASHES AND DEBRIS AREA INSPECTION

On September 1, 1971, Mike Brown of DEP in Chattanooga; L. E. Hambley, Assistant Plant Superintendent; W. G. Lloyd, Assistant Mechanical Supervisor; and I inspected the ash disposal areas at Kingston Steam Plant and discussed our findings with A. C. Spencer, Plant Superintendent.

The attached print of drawing 105400 shows the areas described and location of pictures taken.

In general, the dikes are in good condition with no evident stability problems. The original dikes were constructed with earth. The dikes around the initial ash area were raised with ash.

The operation of the area has changed since last year. The sludge line still discharges into the initial area; but instead of going straight to the spillways of the initial area into the main area as before, most of the ash settles out in areas uncovered by draglines for dry hauling. The water then goes through the spillways into the main area, then into Watts Bar Lake through two standard spillways. The effluent is very clear and the outfalls provide an excellent place to fish (picture 4).

Ash is being dry hauled from the initial area to the area adjacent to and north of the north dike.

The ash is excavated by draglines near the outfall, piled on top of the dike, allowed to dry, then hauled with earthmoving equipment and deposited as shown on the attached sketch.

Plant personnel have completed greasing slopes of the dikes that were constructed with earth as recommended in last year's report. They are continuing to remove the trash from the outside slopes of dike C as it is deposited by Watts Bar Lake.

All dikes have been raised to provide a minimum 4-foot freeboard between the water surface and the top of the dikes with the top kept smooth and sloped to the inside.

Widening of dike C to provide a base for future raising has progressed to near the spillways and should be completed.

F. P. [unclear]
September 22, 1971

URGENT ACTION PLAN - [unclear] AND [unclear] AREA [unclear]

The north side of the initial area has been widened and raised to additional eight to ten feet. The south slope and top of the north dike have been covered with four to six inches of soil, loam, fertilized, and seeded (photos 1 and 2).

Our recommendations are:

1. Continue to operate the rock screen as it was being done, but care should be used to insure that the rock that has not settled out in the initial area does not fill the main area before the rock dike and dike C are raised.
2. Complete the widening of dike C to form the base for future raising.

J. F. E. [unclear]

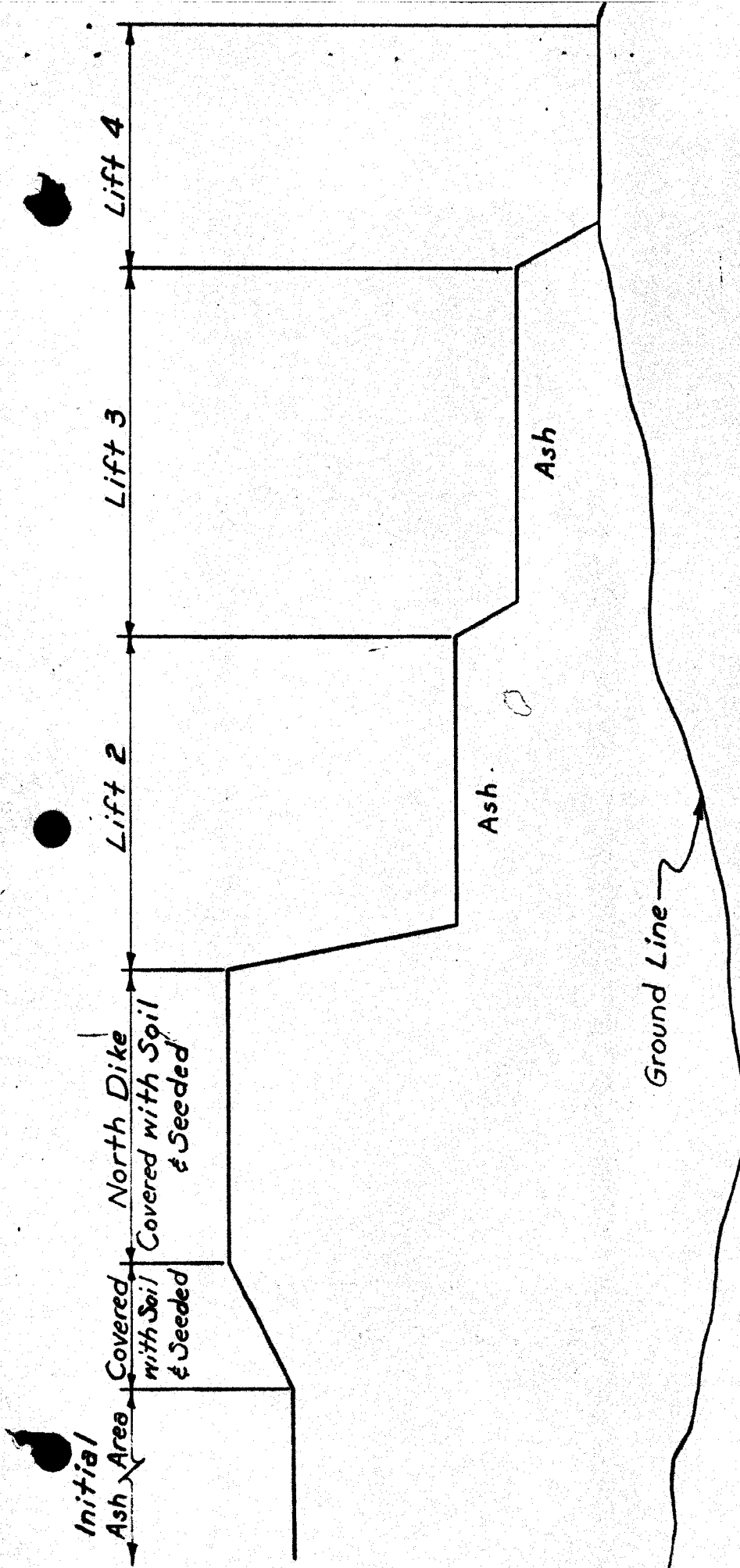
JFE:MM
Attachments

Copy: _____
F. P. [unclear]

J. F. E.

URGENT--9/22/71
OO (Attachments):
F. P. [unclear], 305 [unclear]

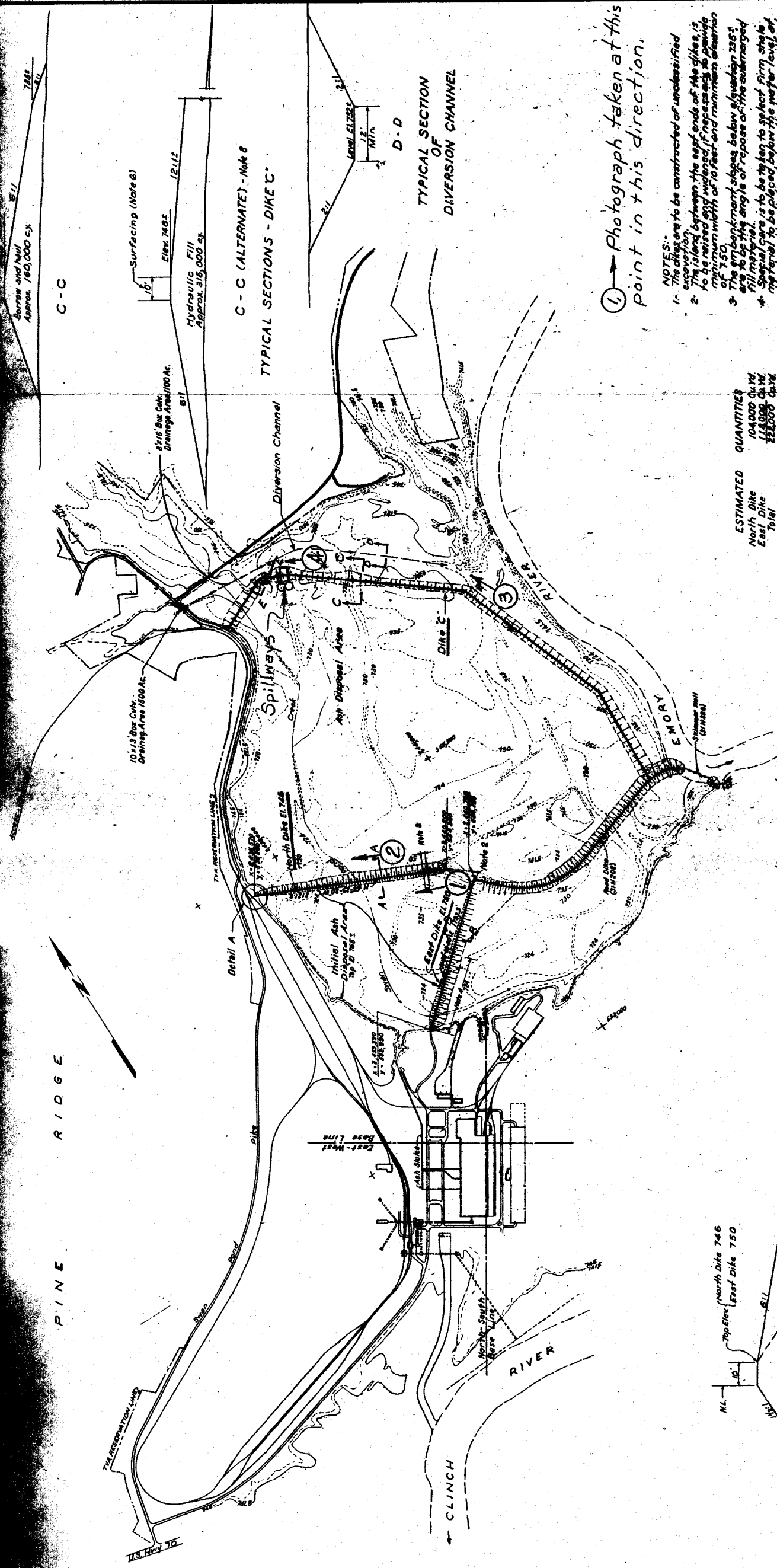
URGENT--9/22/71
OO (Attachments):
J. R. [unclear], 305 [unclear]



Note: Lifts 2, 3 and 4 will be covered with soil, fertilized, limed and seeded when they reach the elevation of the North Dike.

SECTION THROUGH NORTH DIKE AND STORAGE AREA
N.T.S.

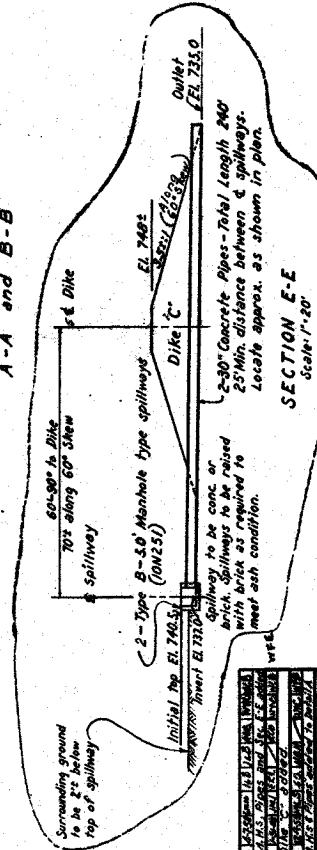
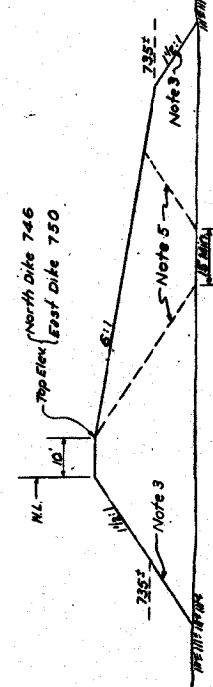
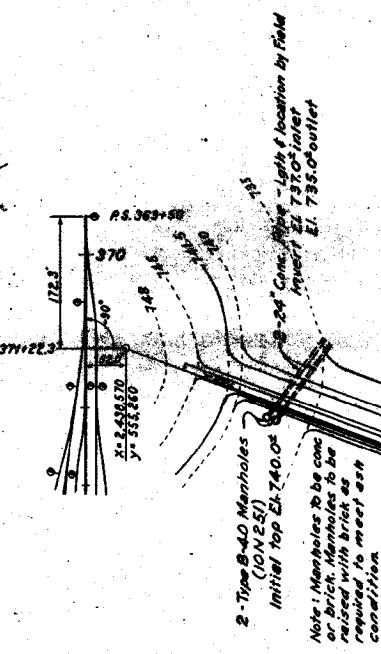
KINGSTON STEAM PLANT



① Photograph taken at this point in this direction.

- NOTES:
- The dikes are to be constructed of undisturbed excavation.
 - The island between the east ends of the dikes is to be raised and widened, if necessary, to provide minimum width of 70 feet and minimum elevation of 750.
 - The embankment slopes below elevation 735 are to be 1:1.
 - Special care is to be taken to select firm stable material to be placed below the top of dike, and the location of the dike and footing should be checked at all points.
 - The top of dike is to be surfaced with slag and ashes, compacted.
 - Qualities shown for Dike C are not to be used. The slope shown for the hydraulic fill section is assumed and may be steeper if material can be placed on steeper slopes.
 - Remove existing dike for minimum width of 50 ft and to elevation 742 of lower after Dike C has been completed to at least elevation 745.

ESTIMATED QUANTITIES
 North Dike 104,000 cu yd
 East Dike 118,000 cu yd
 Total 222,000 cu yd



GENERAL	
ASH DISPOSAL AREA	
KINGSTON STEAM PLANT TENNESSEE VALLEY AUTHORITY	
SUBMITTED	RECOMMENDED APPROVED
<i>R. M. Myers</i>	<i>R. M. Myers</i>
NOXVILLE	MEMPHIS
6-8-51	10-1-51

KINGSTON STEAM PLANT
1971



①
*Spillway in initial ash disposal area
and North Dike. Note earth on top
and slope.*



②
*North Dike: Note earth placed on
top of dike.*

KINGSTON STEAM PLANT
1971



③
Dike C showing riprap and vegetation.



④
Outlet of spillways. Note concrete endwall and railing, vegetation on slope and the areas where fishermen have worn the grass out.