E. F. Thomas, Director of Power Production, 1005 EB-C (2)

J. R. Parrish, Director of Engineering Design, 505 UB-K

September 19, 1972

KINGSTON STEAM PLANT - ANNUAL ASH DISPOSAL AREA INSPECTION

Attached is a report from J. P. K. Stivers to F. D. Stansberry dated September 18, 1972, of the joint field inspection of Kingston Steam Plant.

J. R. Parrish

JPKS:JMA
Attachment
CC: F. P. Lacy, 401 UB-K (3) - w/3 attachments
Power Manager's Files, 630 PKB-C

ANNUAL ASH DISPOSAL AREA INSPECTION

PROJECT: KINGSTON STEAM PLANT

DATE: September 6, 1972

INSPECTED BY

H. L. Peterson, Division of Engineering Design
J. P. H. Stivers, Division of Engineering Design
G. C. Chambers, Division of Power Production
L. B. Kennedy, Assistant Superintendent, Kingston Steam Plant
Discussed findings with Monette L. Butler, Plant Superintendent, Kingston Steam Plant

CHANGE IN DIKES SINCE LAST INSPECTION

Plant personnel have completed widening and raising Dike C by placing earth on the inside and top of the original dike to provide required freeboard and a base for future raising.

Ash is sluiced into the initial area, then dry hauled to the area adjacent to the north dike where it is deposited in stages (see attached sketch). As each stage reaches the elevation of the top of the north dike, it is covered with earth and seeded. Each stage is approximately the same length as the north dike.

CHANGE IN POND OPERATION SINCE LAST INSPECTION

No change in method of operation.

CONDITION OF SPILLWAYS, SKIMMERS, AND OUTLETS

Visual inspection of the skimmers and spillways showed them to be in good condition. Floating ash has collected around the skimmers, and caution must be used when working around the skimmers to prevent disturbing the ash and causing it to flow into Watts Bar Lake.

The outlets were submerged and could not be inspected.

ACTION ON RECOMMENDATIONS OF LAST INSPECTION

Dike C has been widened and raised.

RECOMMENDATIONS

The dikes are in good condition and the pond operation at the present time is good; therefore, we have no recommendations as a result of this inspection.

F. D. Stansberry, Head Civil Engineer (Highway and Railroad), 101 FB-K

J. P. H. Stivers, Civil Engineer (Highway and Railroad), 100 FB-K

September 18, 1972

KINGSTON STEAM PLANT - ANNUAL ASH DISPOSAL AREA INSPECTION

Attached is the report of the Ash Disposal Area Inspection at Kingston Steam Plant on September 8, 1972.

J. P. Hillier Stivers

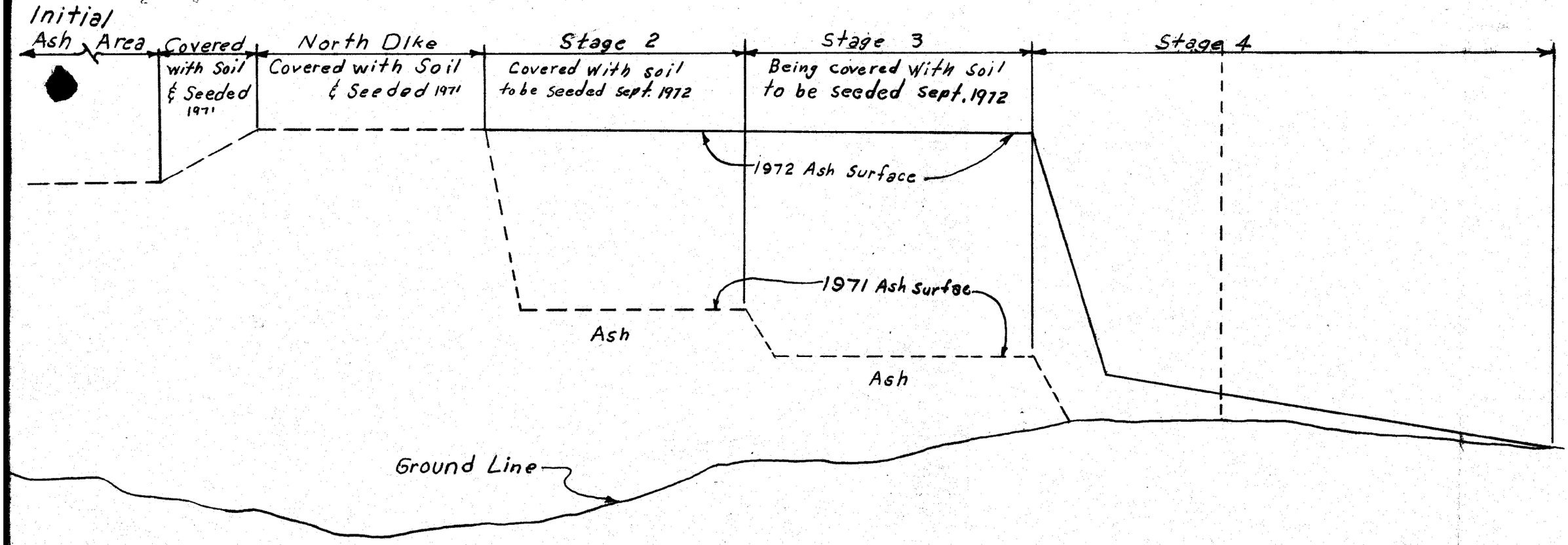
JPHS:JMA
Attachments

Concur: _____
F. D. Stansberry

Concur: _____
F. P. Lacy

9/18/72--FDS:JMA
CC: F. P. Lacy, 401 UB-K - w/attachment

9/18/72--FPL:JL
CC: J. R. Parrish, 505 UB-K - w/attachment

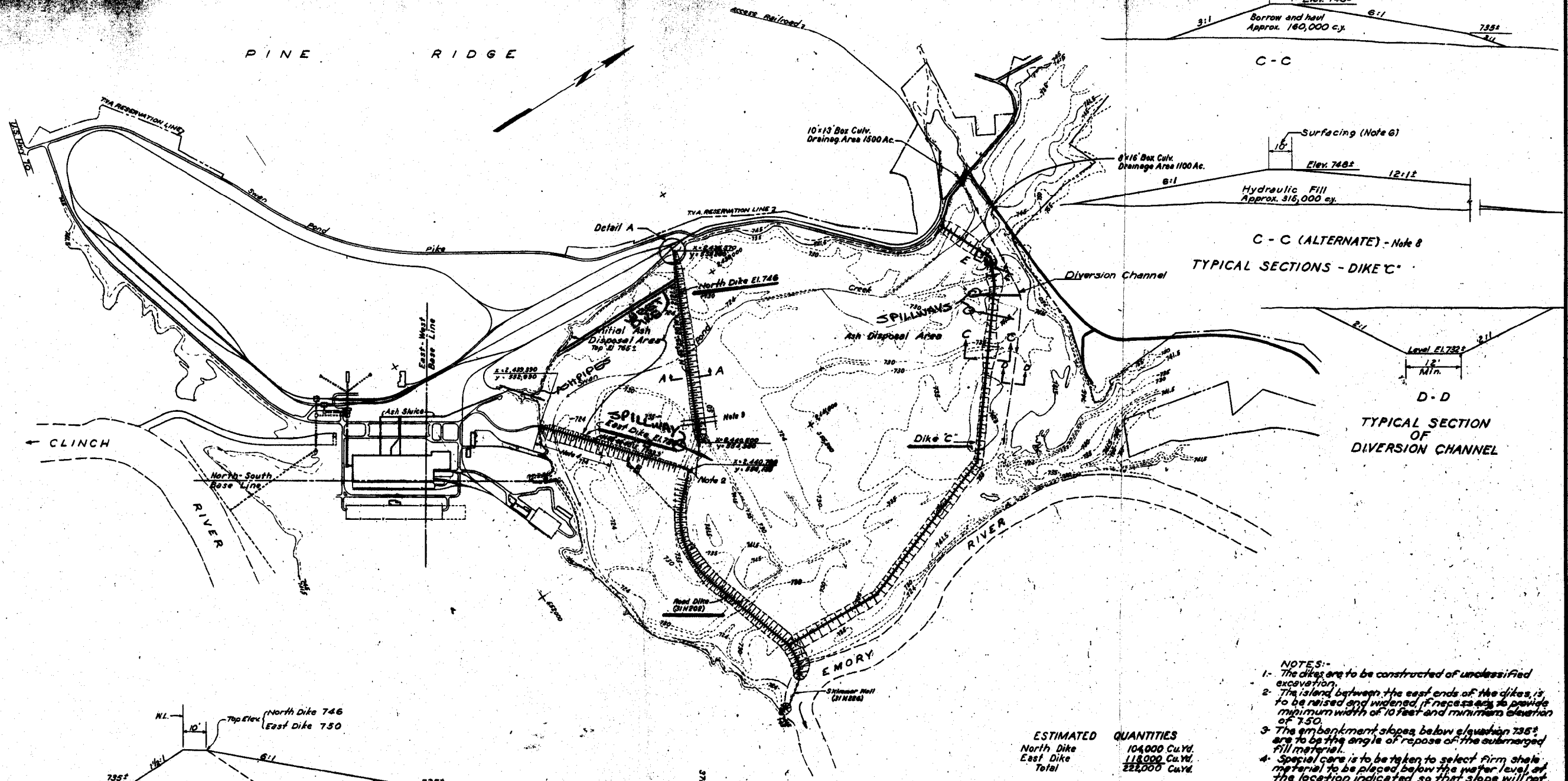


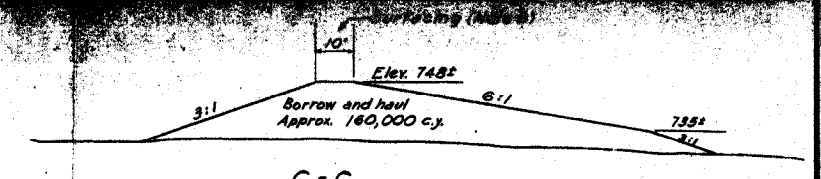
Note: Stage 4 will be covered with soil fertilized, Lime and seeded when final Elevation is Reached.

SECTION THROUGH NORTH DIKE AND STORAGE AREA
NTS

KINGSTON STEAM PLANT 1972

J.P.H.S 9-72



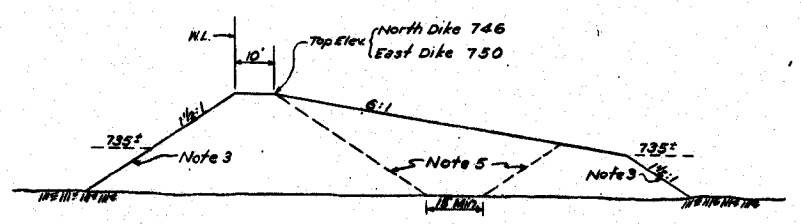


C - C (ALTERNATE) - Note 8

TYPICAL SECTIONS - DIKE 'C'

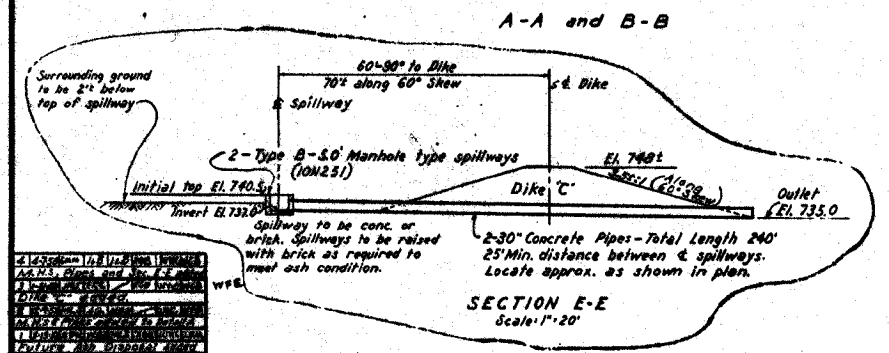
D - D

TYPICAL SECTION OF DIVERSION CHANNEL



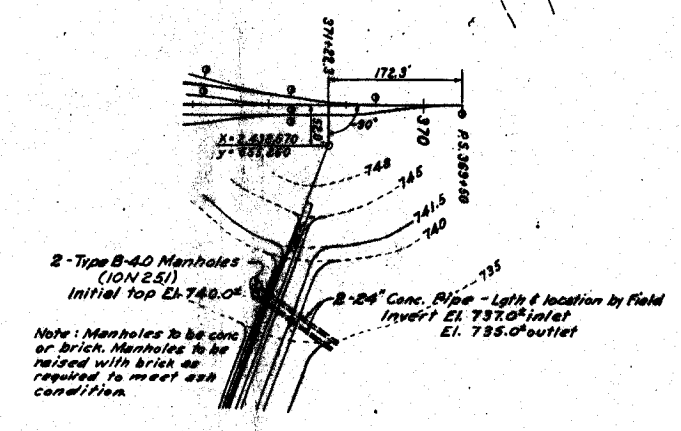
TYPICAL DIKE SECTION

A-A and B-B



SECTION E-E

Scale: 1" = 20'



DETAIL A

Scale: 1" = 100'

ESTIMATED QUANTITIES

North Dike	104,000 Cu.Yd.
East Dike	118,000 Cu.Yd.
Total	222,000 Cu.Yd.

NOTES:-

1. The dikes are to be constructed of unclassified excavation.
2. The island between the east ends of the dikes, is to be raised and widened, if necessary, to provide minimum width of 10 feet and minimum elevation of 750.
3. The embankment slopes below elevation 735± are to be the angle of repose of the submerged fill material.
4. Special care is to be taken to select firm shale material to be placed below the water level at the location indicated, so that slope will not extend into the area of the intake channel.
5. Insofar as it is feasible and practical, the core of the east dike, as indicated, should be constructed of earth and fine material to provide a relatively impervious dam.
6. Top of Dike 'C' to be surfaced with slag and ashes, 6" compacted thickness.
7. Quantities shown for Dike C are net fill for section shown and do not include shrinkage etc.
8. Section C-C is the minimum section to be used. The slopes shown for the hydraulic fill section are assumed and may be steeper if material can be placed on steeper slopes.
9. Remove existing dike for minimum width of 50ft. and to elevation 742 or lower after Dike 'C' has been completed to at least elevation 745.

Scale: 1" = 500' except as noted

GENERAL

ASH DISPOSAL AREA

KINGSTON STEAM PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF DESIGN

SUBMITTED	RECOMMENDED	APPROVED
W. N. Belmont	O. A. Mayer	R. A. Monroe

KNOXVILLE	8-8-51	36	C	4	10N400 R4