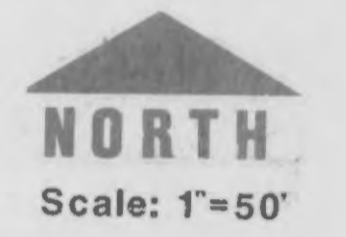


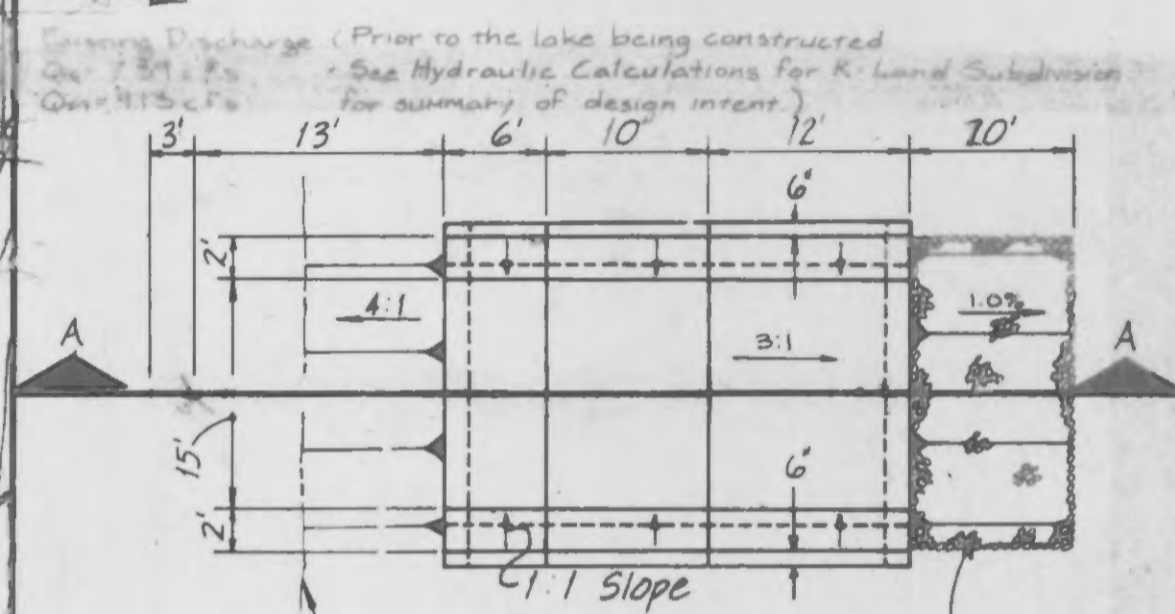


GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners

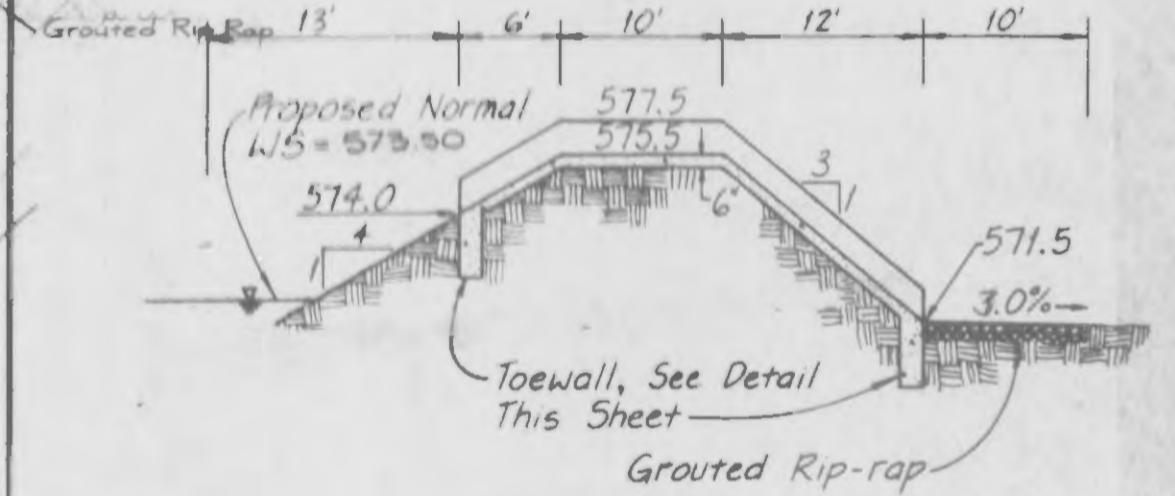
PROJECT	K-LAND	SHEET NO.	3	TOTAL SHEETS	15
SITE AND GRADING PLAN		PROJECT NO.:	4576	DATE:	8-27-87
REVISIONS:					



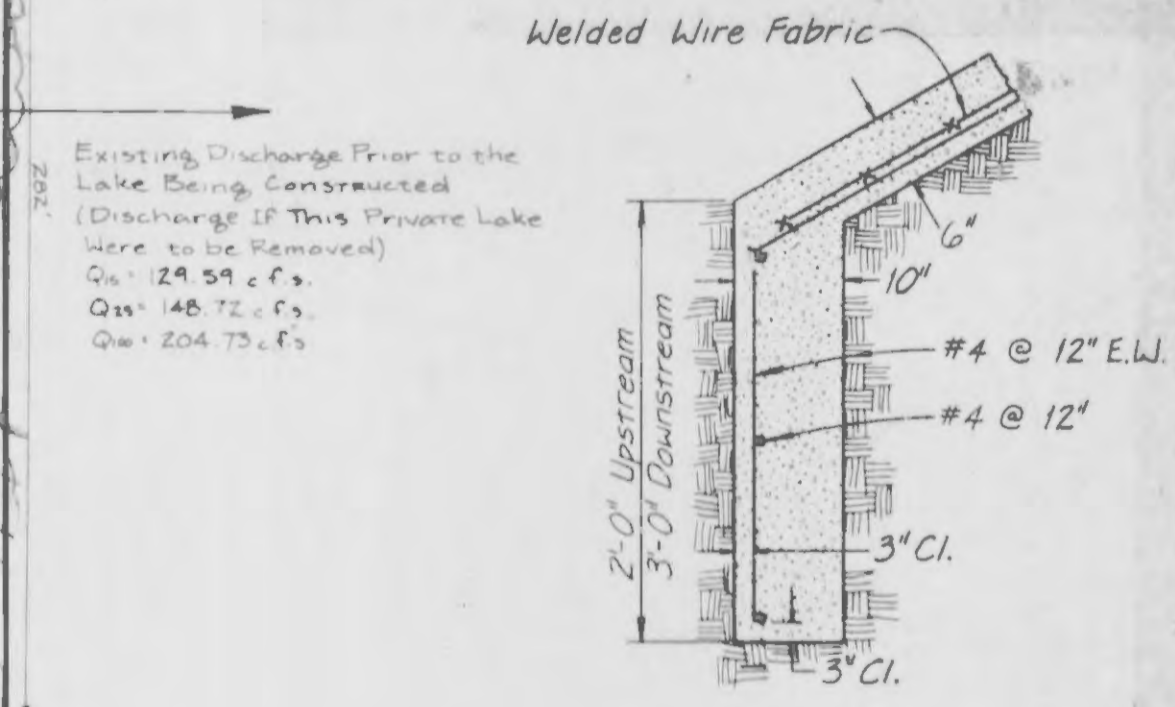
Total Proposed Discharge to East Watershed $Q_{10} = 7.18 + 0.63 = 7.81$ cfs. $Q_{15} = 8.83 + 6.87 = 15.70$ cfs.



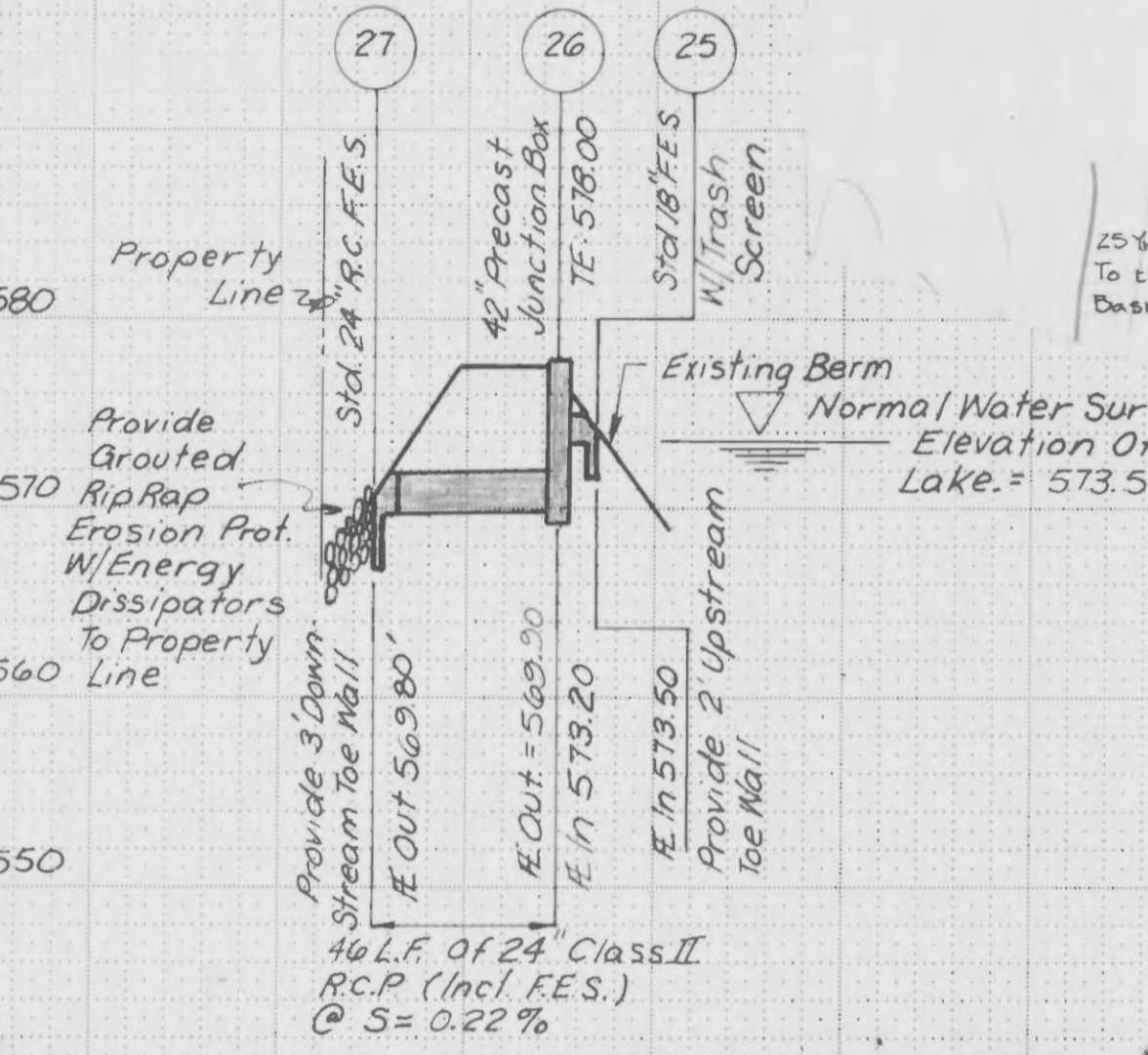
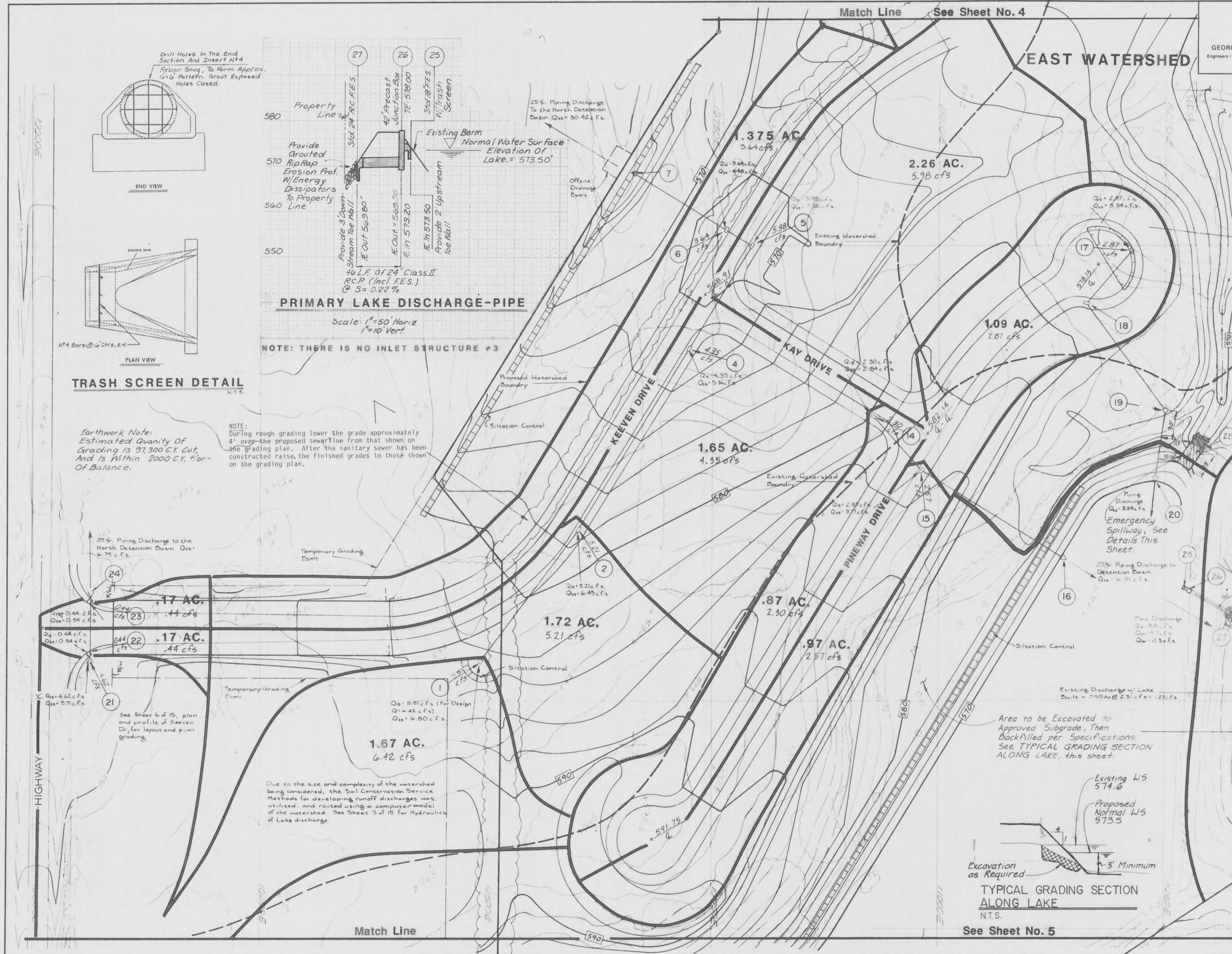
Proposed Normal WS = 573.50
Emergency Discharge w/ 18" Discharge Pipe Inoperative.



SECTION A-A
PRIMARY/EMERGENCY LAKE
DISCHARGE-WEIR SPILLWAY
N.T.S.

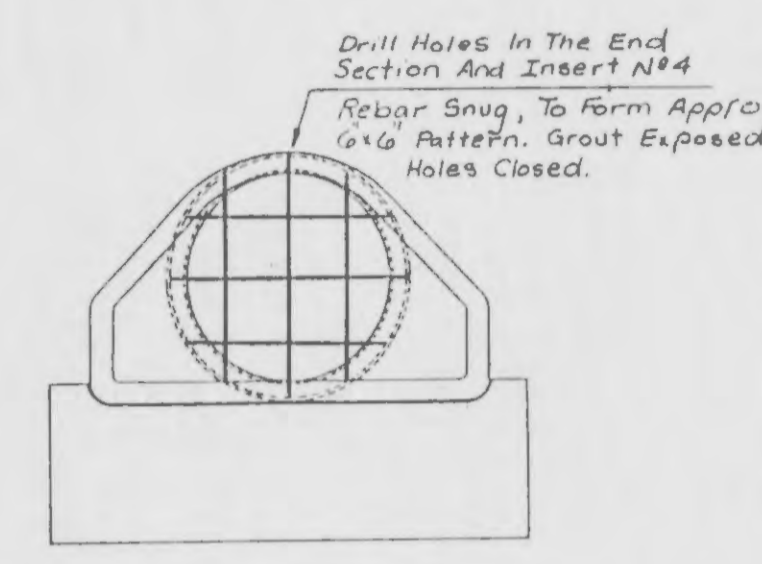


TOEWALL DETAIL
N.T.S.

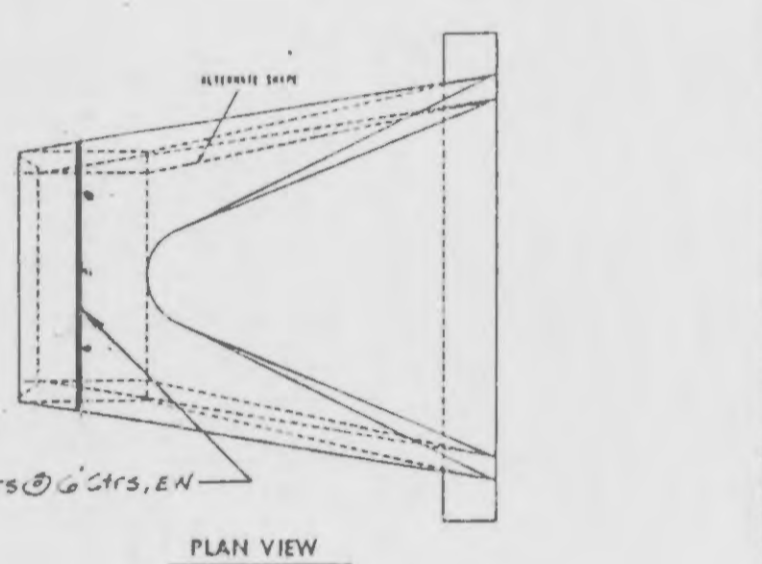


PRIMARY LAKE DISCHARGE-PIPE
Scale: 1"=50' Horiz
1"=10' Vert.

NOTE: THERE IS NO INLET STRUCTURE #3



TRASH SCREEN DETAIL
N.T.S.



TRASH SCREEN DETAIL
N.T.S.

Earthwork Note:
Estimated Quantity of Grading is 97,300 C.Y. Cut, And Is Within 2000 C.Y. Var-Of-Balance.

NOTE:
During rough grading lower the grade approximately 4' over the proposed sewerline from that shown on the grading plan. After the sanitary sewer has been constructed raise the finished grades to those shown on the grading plan.

Area to be Excavated to Approved Subgrade, Then Backfilled per Specifications. See TYPICAL GRADING SECTION ALONG LAKE, this sheet.



TYPICAL GRADING SECTION
ALONG LAKE
N.T.S.

See Sheet No. 5

Due to the size and complexity of the watershed being considered, the Soil Conservation Service Methods for developing runoff discharges was utilized and routed using a computer model of the watershed. See Sheet 3 of 15 for Hydraulics of Lake discharge.

10000'

HIGHWAY

Match Line See Sheet No. 4

Match Line

See Sheet No. 5