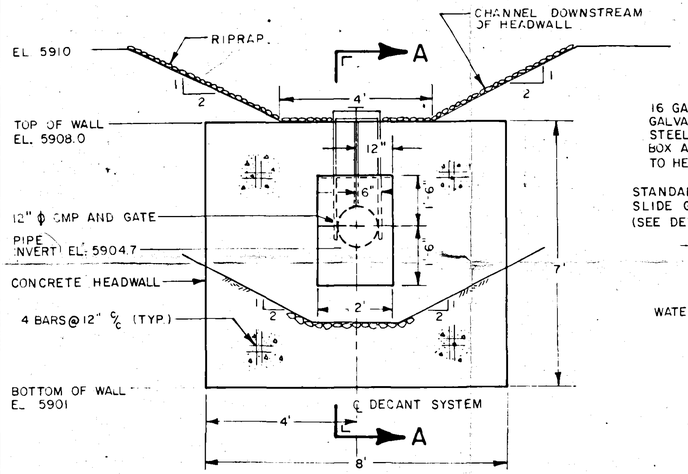
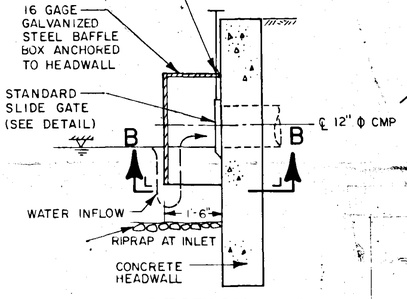
DRAWING NUMBER RM78-669-E3

DRAWN BY | S.L.T. 11-17-78 | CHECKED BY | APPROVED BY

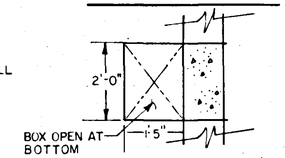



NOTE 1 STEM RISER ON SLIDE GATE TO EXTEND TO TOP OF HEADWALL
2 FOR PLAN LOCATION OF HEADWALL SEE SHEET 3 OF 4

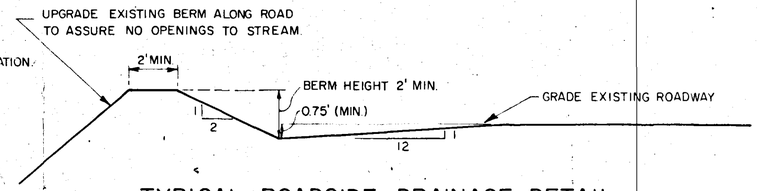
## MAIN POND DECANT DETAILS



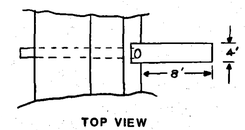

## SECTION A-A

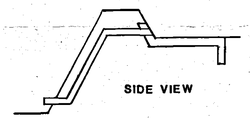



## SECTION B-B




## TYPICAL ROADSIDE DRAINAGE DETAIL



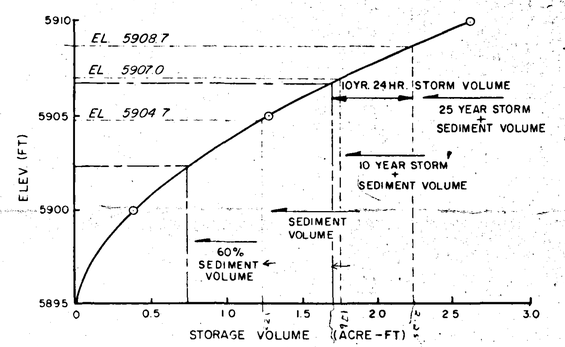




NOTES

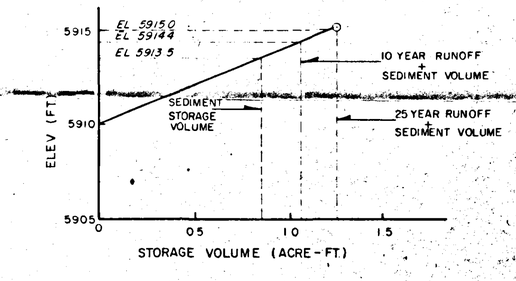
1. EAST DROP STRUCTURE
   12" PVC PIPE
   W/ CONCRETE HEADWALL
2. NORTH DROP STRUCTURE
   12" CMP PIPE
   NO HEADWALL
   PIPE EXPOSED ON
   INSIDE POND SLOPE

## CULVERT DROP STRUCTURES

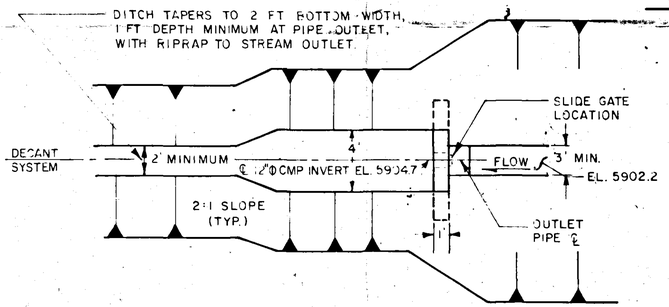
N.T.S.




## STORAGE VOLUME RELATIONSHIP-MAIN POND

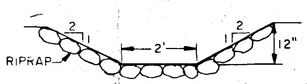



## STORAGE VOLUME RELATIONSHIP-SECONDARY POND



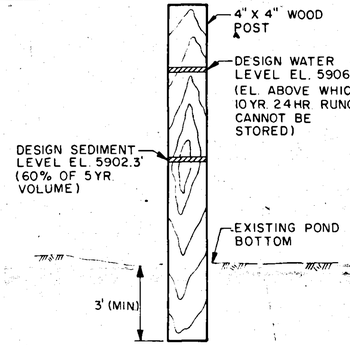

## PLAN-MAIN POND DECANT SYSTEM

N.T.S.



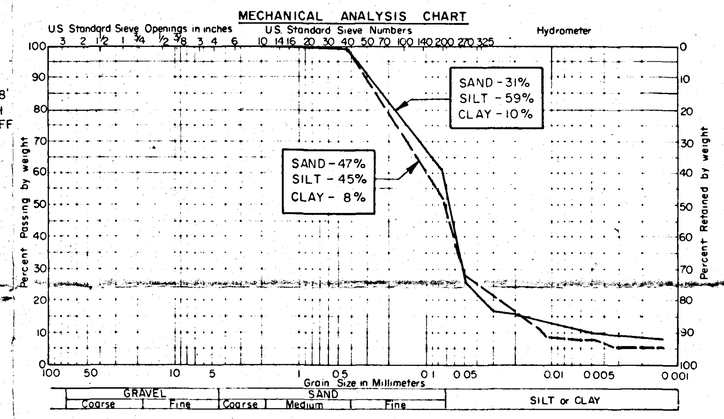

## MINIMUM DITCH SECTION MAIN POND OUTLET

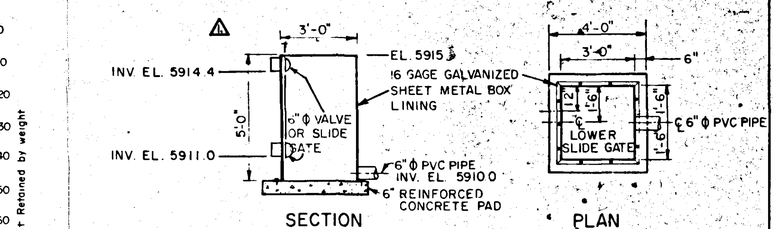
N.T.S.




## STAFF GAUGE DETAIL

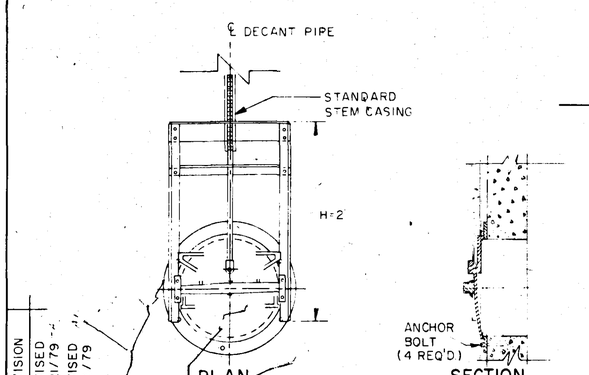
N.T.S.



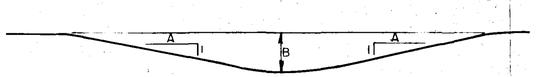

## SECONDARY POND OUTLET BOX

SCALE
3 0 3 6 FEET




## SLIDE GATE INSTALLATION DETAILS

N.T.S.




A = 10' AND B = 6" IN ROAD CROSSING AREAS
A = 5' AND B = 1' IN NON ROAD AREAS.

## TYPICAL SWALE DETAIL

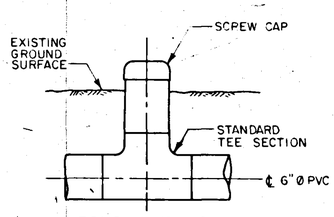
NTS

NOTE SLIDE GATES ARE STANDARD ARMCO MODEL 20-10C FOR 12" Φ PIPE WITH A FRAME HEIGHT OF 2 FEET, OR APPROVED EQUAL

| HOLE NO | DEPTH BELOW GROUND SURFACE | IN-PLACE UNIT WEIGHT LB/FT³ | IN-PLACE MOISTURE PERCENT | MECHANICAL ANALYSIS % GRAVEL | % SAND | % SILT & CLAY | SOIL CLASSIFICATION UNIFIED SYSTEM |
|---|---|---|---|---|---|---|---|
| 1 | 2.5 | 101.2 | 6.7 | 0 | 61.1 | 38.9 | SM |
| | 5.0 | 93.6 | 8.3 | 0 | 55.2 | 44.8 | SM |
| 2 | 4.0 | 95.4 | 8.5 | 0 | 64.2 | 35.8 | SM |
| | 6.0 | 92.9 | 7.1 | 0 | 50.9 | 49.1 | SM |
| | 7.0 | 95.2 | 9.0 | 0 | 38.0 | 62.0 | ML |

## AVAILABLE SOILS DATA

NOTE SOILS DATA PRESENTED TO INDICATE TYPICAL AREA BORROW MATERIAL TESTS DURING DIKE CONSTRUCTION WILL DELINEATE MATERIALS USED IN DIKE.




## POND OUTLET CLEANOUT DETAIL

(FOR PLAN LOCATION SEE SHEET 3 OF 4)

SHEET 4 OF 4

DETAILS AND DATA
ANALYSES

PREPARED FOR

CONSOLIDATION COAL COMPANY
ENGLEWOOD, COLORADO

RECEIVED MAY 2 1988 DIVISION OF OIL, GAS & MINING

△ 5/6/86 NEUMANN MOVED SLIDE GATES FROM OUTSIDE TO INSIDE

PLATE 13-5

D'APPOLONIA

REVISED 4/18/88

REVISION
△ REVISED 2/21/79
△ REVISED 3/2/79

0-F-4