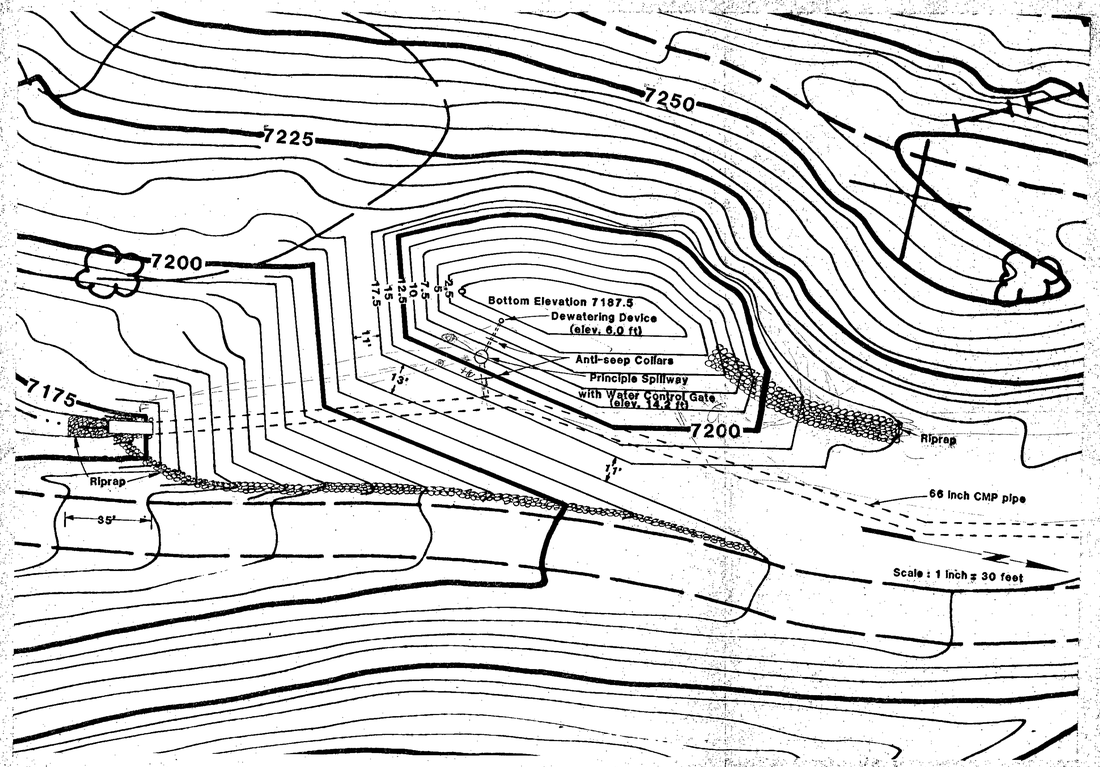
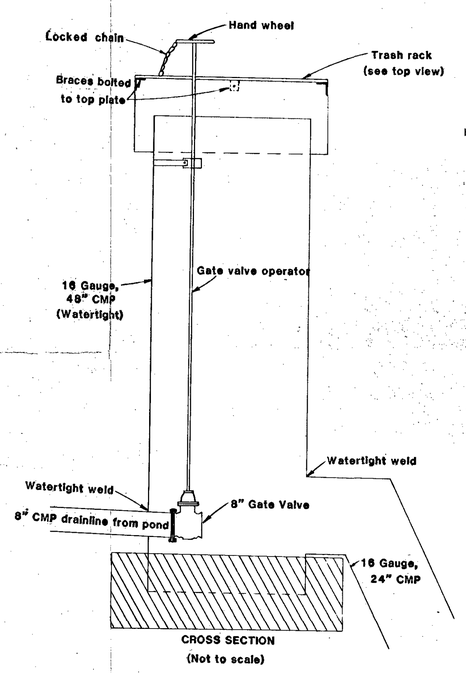
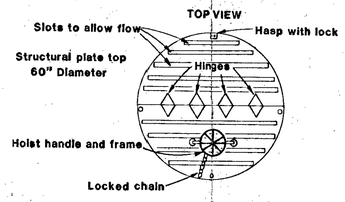
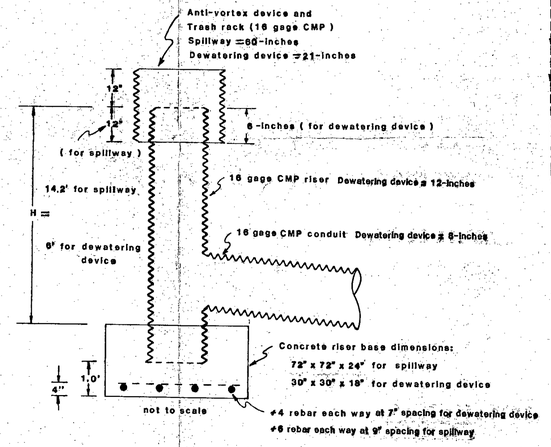



## DESIGN DETAIL OF SPILLWAY AND DEWATERING DEVICE

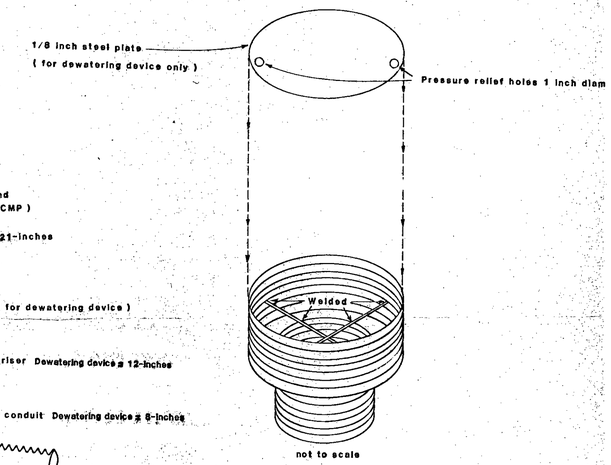


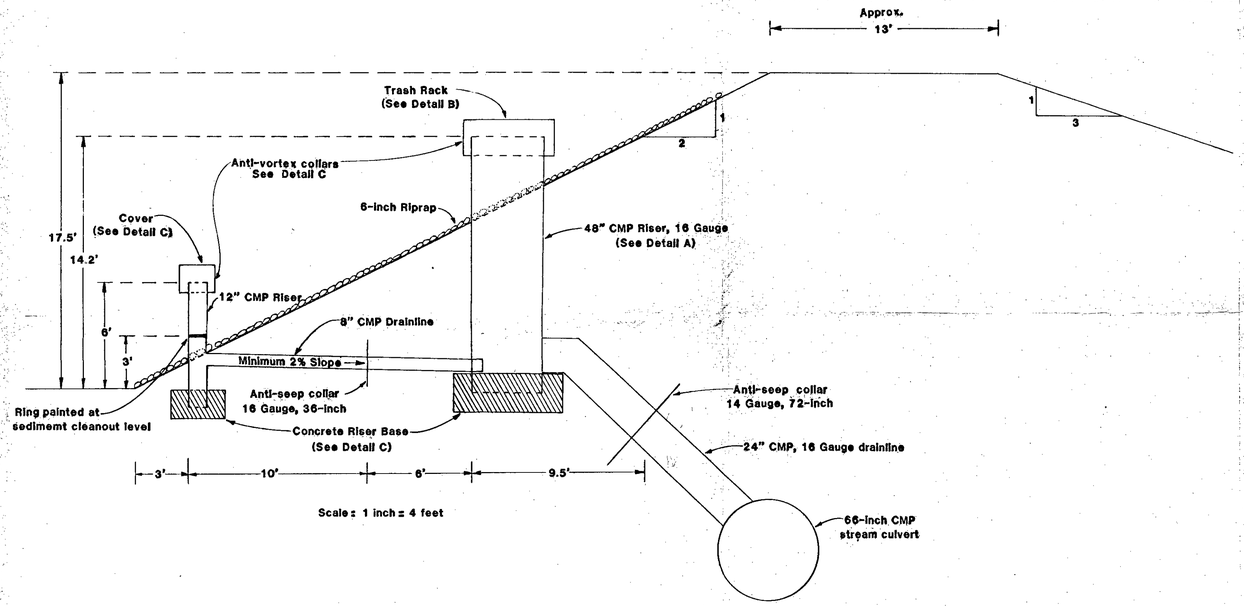

## DETAIL A

## CLOSE UP ANTI-VORTEX DEVICE AND TRASH RACK




NOTES:

1) Cylinder should be welded to the top of the riser.
2) Support bars are #6 rebar or equivalent.
3) Steel plate for dewatering device should be welded to cylinder.




NOTES:

1. Embankment fill material shall be laid in 6 to 8 inch continuous layers and machine compacted.
2. Embankment fill material shall have a well distributed particle size gradation with a minimum of 30 percent passing the No 60 mesh sieve and a minimum of 12 percent and maximum size of 50 percent passing the No. 200 mesh sieve.
3. Embankment fill material shall be compacted to a minimum of 95 percent of the maximum dry density (Standard Proctor).
4. Fill Material around conduits shall be hand compacted.
5. Riprap shall be placed at points of inflow and outflow.
6. Embankment and disturbed areas shall be revegetated following construction.
7. Reference elevation is bottom of pond. (7187.5 ft MSL)
8. Watertight connections shall be used.
9. Riprap shall be placed 5 feet on both sides of spillway and dewatering device up full height of embankment.
10. The foundation shall be cleared of debris and scarified prior to embankment construction.
11. The inside of the pond shall be lined with 18 inches of embankment material mixed with 10% bentonite.

Registered Professional Engineer
D. GEORGE CHADWICK JR.
No. 5568
State of Utah

Needs to be included in Vaughn Hansen report for Trail Mountain Mine
ACT/015/009

**FIGURE 7-13. SEDIMENTATION POND DESIGN DETAILS**

**NATOMAS TRAIL MOUNTAIN**

prepared by
Vaughn Hansen Associates
Salt Lake City, Utah

September 15, 1981

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