FOR CONTINUATION OF EXISTING CULVERT SEE DWG. C 40

STATION EQU. 1+00 NORTH = 1+00 SOUTH

TRUCK LOAD-OUT

STA. 1+43.0 PT. 6" ϕ CONNECTION

EXIST. SERVICE YARD CULVERT

STA. 1+82.0 S. CONNECT TO EXIST. 90" ϕ CULVERT. REMOVE SAND & KEY EXIST. END SECTION (SEE PROFILE)

℄ COORD N. 359,119.24 E. 2,101,771.46

STA. 1+87.0 S. ℄ P.I. OF 41° VERT. BEND

DIKE NO. 1 TOP EL. = 7353

42" ϕ CSP

1½:1 SLOPE

2:1 SLOPE

POND NO. 2

OUTLET STRUCTURE (SEE DWG C 126)

DELETED

S 18°55'30" E

30" ϕ DRAIN PIPE

90" ϕ SEDIMENTATION POND BYPASS CULVERT

OUTLET STRUCTURE (SEE DWG C 125)

TRUCK PLAN VIEW SUPERCEDED BY DWG. C121

STA. 4+88.0 S. ℄ P.I. OF 7° VERT. BEND

STA. 5+17.5 P.I. 30° ϕ CONN. TO 42" ϕ CSP

DIKE NO. 2 TOP EL. = 7340

HAUL ROAD

TEMP. HAUL RD. (BY OTHERS)

HAUL ROAD CULVERT (SEE DWG. C45)

N. 358,634.92 E. 2,101,333.53

STA. 6+28.5 ℄ COORD N. 358,675.88 E. 2,101,916.88

7370 7390 7350 7330 7310 7290

0+50 0+75 1+00 1+25 1+50 1+75 2+00 2+25 2+50 2+75 3+00 3+25 3+50 3+75 4+00 4+25 4+50 4+75 5+00

ENGINEERS CERTIFICATE

Structural

I, _____ hereby certify that I am a Registered Professional Engineer licensed in the State of Utah, and that I hold Certificate No. _____. I also certify that the structural aspects of the design shown has been prepared under my general direction & review, and further, that it conforms to good engineering practice according to the best of my knowledge and belief.

Date _____ Name _____

ENGINEERS CERTIFICATE

Hydrologic, Hydraulic

I, Samuel C. Musser, hereby certify that I am a Registered Professional Engineer, licensed in the State of Utah and that I hold Certificate No. 4753. I also certify that the hydrologic, hydraulic aspects of the design shown has been prepared under my general direction and review, and further, that it conforms to good engineering practice according to the best of my knowledge and belief.

February 16 1979 Date

Samuel C. Musser Name

No. 4753 SAMUEL C. MUSSER REGISTERED PROFESSIONAL ENGINEER STATE OF UTAH

ENGINEERS CERTIFICATE

Geotechnical Dam Stability & Groundwater

I, Edwin S. Smith, hereby certify that I am a Registered Professional Engineer, licensed in the State of Utah and that I hold Certificate No. 2772. I also certify that I have reviewed and evaluation of existing backfill for the 90-inch conduit and provided recommendations for seepage collars, piping and leakage, and further, that it conforms to good engineering practice according to the best of my knowledge and belief.

February 1, 1979 Date

Edwin S. Smith Name

No. 2772 EDWIN S. SMITH REGISTERED PROFESSIONAL ENGINEER STATE OF UTAH

PROFILE

1400 1380 1360 1340 1320 1300

JOINTS TO BE MADE WATERTIGHT POST THE END OF POND "A" (SEE DWG C40 FOR LOCATION) EXISTING SERVICE YARD CULVERT

STA. 1+43.0 PT. 6" ϕ CONN.

STA. 1+87.0 S. CONNECT TO EXIST. 90" ϕ CULVERT

GR = 8.0%

20/12 GA. RIVETED ϕ 20/12 GA. ϕ 20/12 GA. ϕ 20/12 GA. 20/12 GA. WELDED

GR = 8.0% ACL = 5.0'

DESIGN ℄ EL = 7356.74 (FIELD CHECK EXISTING)

℄ EL. = 7354.39

REMOVE, SALVAGE & REINST. EXISTING 17.5' LONG BEVELED END SECTION

GR = 1.69%

ACL = 304.0'

20/12 GA. ϕ 20/12 GA. ϕ 20/12 GA. ϕ 20/12 GA. ϕ 20/12 GA. ϕ 20/12 GA. WELDED

NORTH DIKE (#1)

EL = 1311.36

GR = 6.0% ACL = 42.5'

CONC. THRUST BLOCK (PROJECTED 30 SQ FT OF BEARING AREA)

PROJECTED ℄ EL = 1303.35

SOUTH DIKE (#2)

10% SLOPE

HAUL ROAD (BY OTHERS)

RIPRAP

NOTES

1) 90" ϕ CULVERT PIPE IS GALV. C.S.P. 8 GA. CORR. IN THE GAGE SHOWN. ALSO ALL PIPE IS HELICAL WELDED SEAM CONSTRUCTION UNLESS OTHERWISE NOTED. ENDS ARE RE-ROLLED ANNULAR CORR.
2) ALL JOINTS MARKED (T) SHALL BE WATERTIGHT WITH NEOPRENE GASKETS AND RUBBER BANDS.
3) GR = GRADE; ACL = ACTUAL ℄ LINE LENGTH.
4) CONTOURS REPRESENT EXISTING GROUND ELEVATIONS.
5) 90° CIR. BENDS SHALL BE 12 DIA. BEND CONFIGURATION SHOWN ON DETAIL "A" DWG. C40.
6) ALL PIPE, FITTINGS, COUPLINGS & HOLDDOWN STRAPS UNLESS OTHERWISE NOTED ALL OTHER MATERIALS SHOWN ON THIS DRAWING SHALL BE FURNISHED BY EARTHWORK CONTRACTOR.

1) JOINTS MARKED BY THE SYMBOL (T) SHALL BE RECONSTRUCTED TO BE WATERTIGHT.
2) PIPE SECTIONS MARKED WITH AN "X" SHALL BE RECONSTRUCTED TO BE WATERTIGHT.

PROFILE

NO.	DATE	DESCRIPTION OF REVISION
3	12/84	REVISED AS BUILT (FIELD CHG'S)
2	4/84	REVISED BY UP&L CO.
1	1/84	ADD NOTES
	11/83	ISSUED FOR BIDDING

PREPARED BY ROBERTS & SCHAERER Company ENGINEERS AND CONTRACTORS CHICAGO · SALT LAKE CITY

SEDIMENTATION POND BYPASS CULVERT AND WATER SURFACE FACILITIES

UTAH POWER & LIGHT COMPANY ORANGEVILLE, UTAH

DESIGNED BY RSS DRAWN BY RSS CHECKED BY RSS APPROVED BY R.W. WHEELWRIGHT

SCALE: HOR. 1"=20' VERT. 1"=10' DATE: 8/16/78

1704-C122

SUPERSEDED 1/13/84

JUL 17 1985