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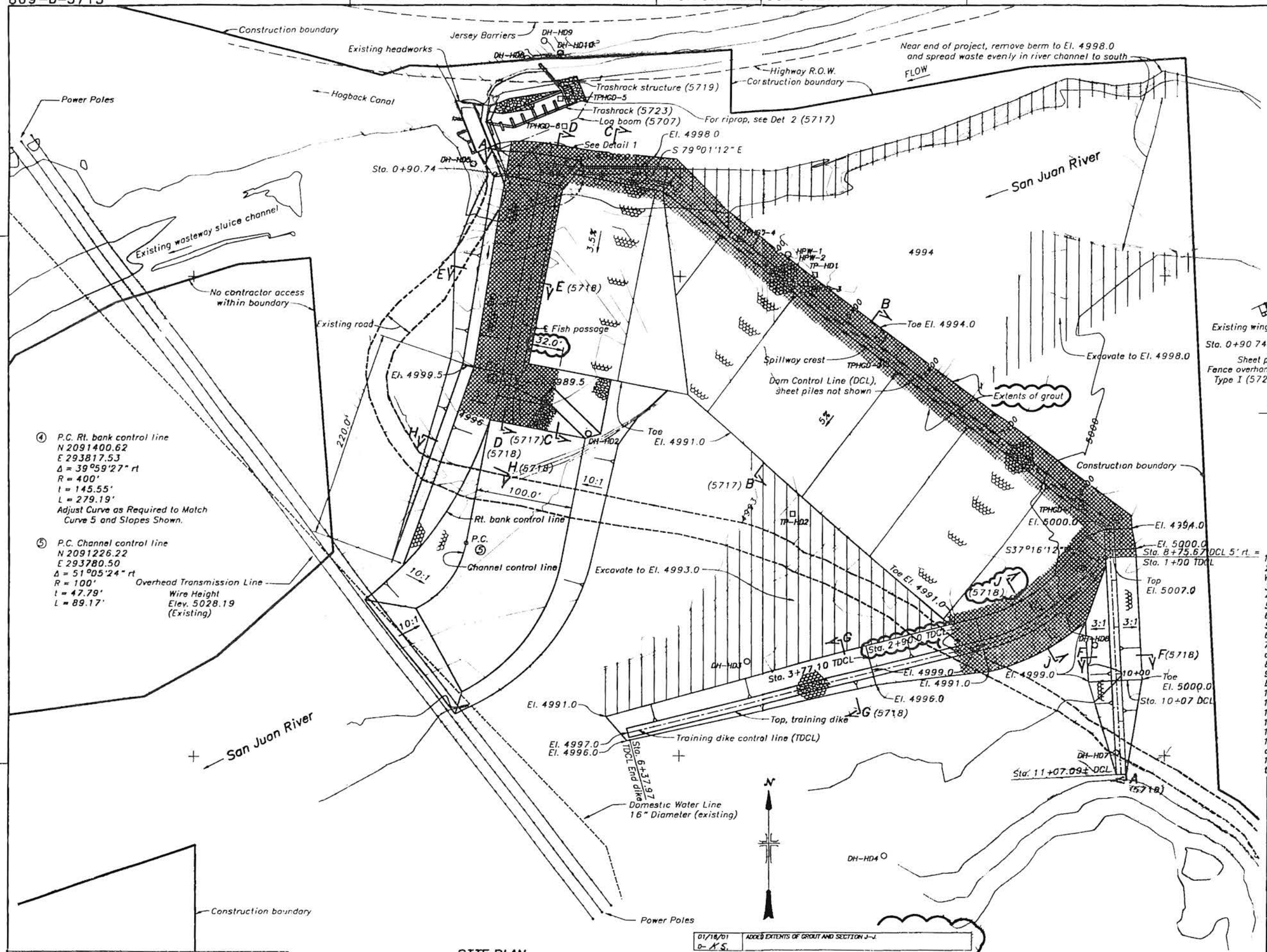


④ P.C. Rt. bank control line
N 2091400.62
E 293817.53
Δ = 39°59'27" rt
R = 400'
t = 145.55'
L = 279.19'
Adjust Curve as Required to Match Curve 5 and Slopes Shown.

⑤ P.C. Channel control line
N 2091226.22
E 293780.50
Δ = 51°05'24" rt
R = 100'
t = 47.79'
L = 89.17'

Dam control line (DCL) curve data

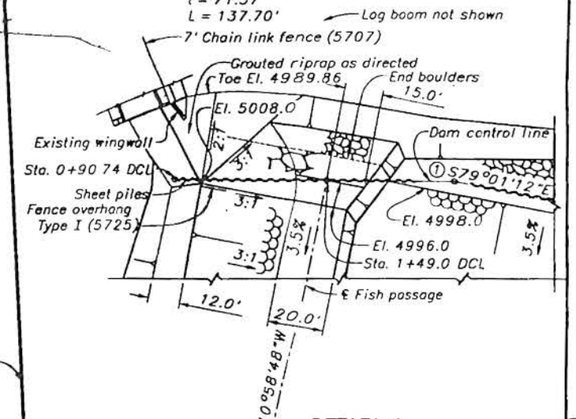
① P.I. Sta. 2+00 DCL
Δ = 10°30'00" rt
N 2091604.38
E 293918.27

② P.I. Sta. 2+67.06 DCL
Δ = 26°17'24" rt

③ P.I. Sta. 8+44.56 DCL
Δ = 50°00'00" rt

Training dike control line (TDCL) curve data:

⑥ P.C. Sta. 1+23.20 TDCL
P.I. Sta. 1+94.77 TDCL
P.T. Sta. 2+60.90 TDCL
Δ = 38°29'24" rt
R = 205'
t = 71.57'
L = 137.70'



NOTES

1. Topography based on field drawing 1523-529-6.
2. Grid based on New Mexico State Plane Coordinate System, West Zone. Grid factor = 0.999705084.
3. Contour interval = 1 foot.
4. BLM Datum ??
5. For General Notes, see 809-D-5722.
6. Adjacent sheet piles shall be installed with a maximum of 5° deflection in plan to form bends at P.I. points.
6a. Alignment of dam shall follow sheet piles at P.T. points.
7. Limits of riprap may be adjusted as directed to suit field conditions.
8. Slope riprap uniformly between elevations shown.
9. Land outside construction boundary shall not be disturbed by the contractor.
10. |||| Designates an area to be excavated
11. TPHGD-1 and TP-HD1 Designate test pits.
12. DH-HD1 Designates drill holes.
13. HPW-1 Designates pump-out test wells
14. Slope arrows point downslope.
15. For waste, riprap stockpile and construction staging areas, see 809-529-7660.
16. For location of exploration, geologic sections and pump test detail, see 809-529-7710 and -7727.

8-15-00 D-K.S.	REVISED RIPRAP AT TRASHRACK STRUCTURE AND ADDED CALLOUT.
6-24-00 D-K.S.	ADDED HOGBACK DIVERSION DAM FUNDING NOTE AND DELETED PROJECT NAME IN THE TITLE BLOCK (SEE NOTE)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

HOGBACK DIVERSION DAM
GENERAL ARRANGEMENT
SITE PLAN AND DETAIL

DESIGNED W.C. & SMITH — TECH. APPR. W. ARTHUR BLOOMER
DRAWN W.C.A. PORTE
CHECKED W.K.S. SM — PEER REVIEW W. RICHARD A. FUERST, WATER CONVEYANCE GROUP

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809-D-5715

12/8/00 D-K.S.	REVISED DETAIL 1 AND ADDED NOTE 6A.
11/30/00 FCO-221	REVISED COORDINATES TO MATCH EXISTING SURVEY CONTROL SYSTEM. CORRECTED CURVE 4 DATA.

01/18/01 D-K.S.	ADDED EXTENTS OF GROUT AND SECTION J-J.

HOGBACK DIVERSION DAM IS PART OF THE **HOGBACK PROJECT – NEW MEXICO,** CONSTRUCTED BY THE BUREAU OF RECLAMATION WITH FUNDING APPROPRIATED FOR THE **NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO**

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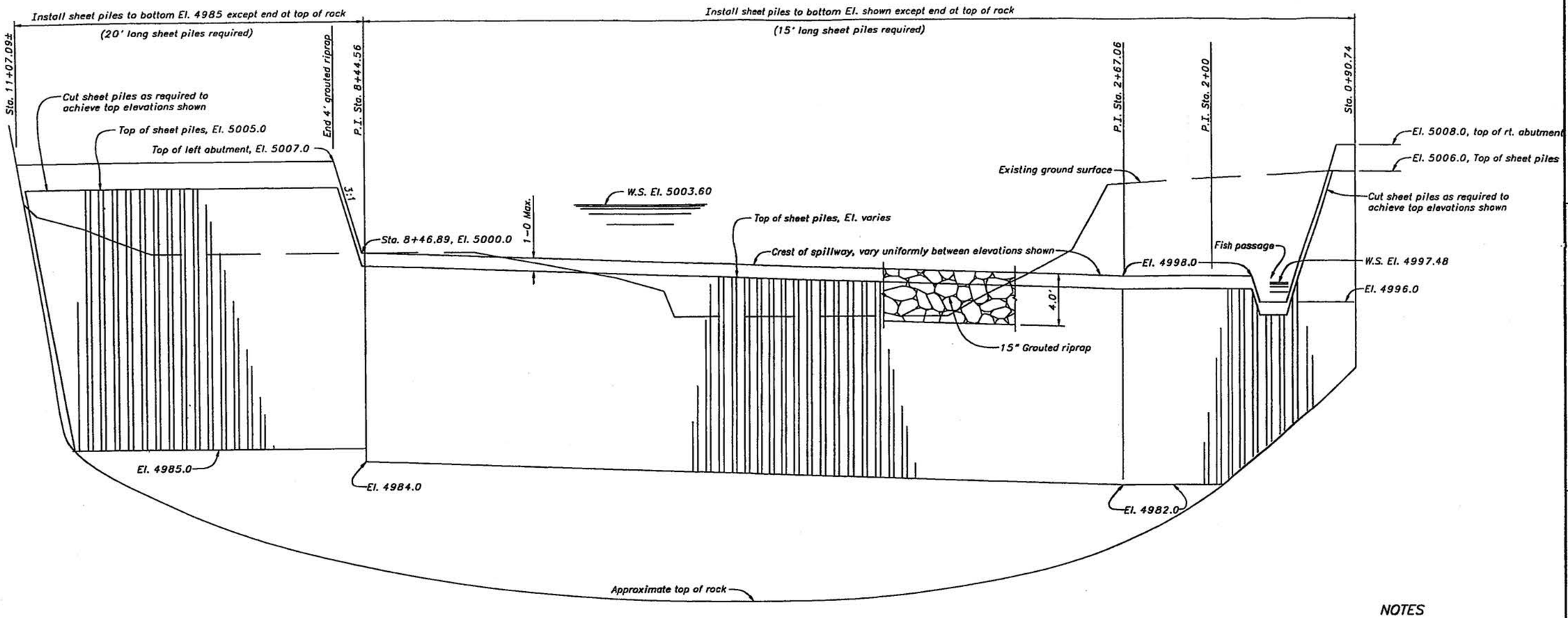

SECTION A–A (5715)

40 0 40 80 120
SCALE OF FEET
HORIZONTAL

4 0 4 8 12
SCALE OF FEET
VERTICAL

NOTES

Water surface elevation 5003.60 corresponds to 200 year flood flow of 20,000 cfs. Elevation 4997.48 is the design water surface for 300 cfs design diversion to Hogback canal. For rating curve for existing diversion structure, see information drawings.

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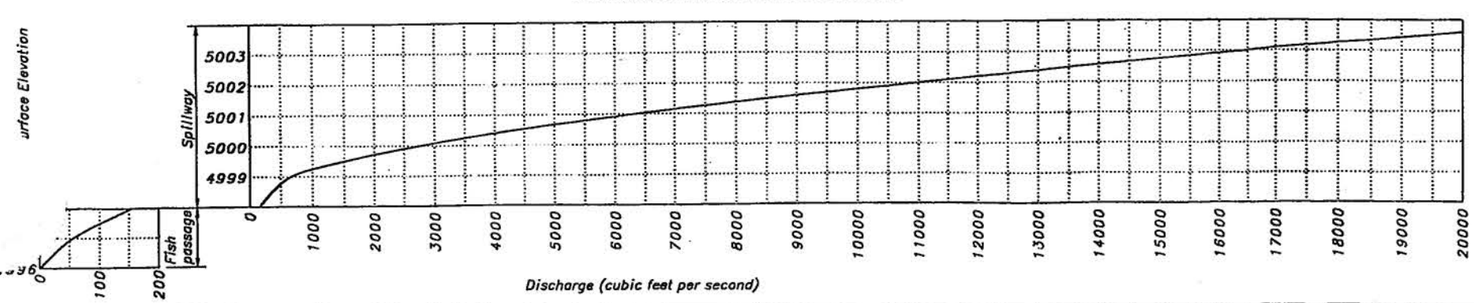
DIVERSION DAM RATING CURVES



6-24-00 D- AS	ADDED HOGBACK DIVERSION DAM FUNDING NOTE AND DELETED PROJECT NAME IN THE TITLE BLOCK (SEE NOTE)

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BUREAU OF RECLAMATION

HOGBACK DIVERSION DAM
GENERAL ARRANGEMENT
SECTION AND RATING CURVE

DESIGNED J.K.A. SEP. TECH. APPR. J. PEPPER SI-DPOR.
DRAWN G.K.A. SEP.
CHECKED J.T. & DM PEER REVIEW J. RICHARD A. FUERST WATER CONVEYANCE GROUP

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SHEET 2 OF 4 809-D-5716

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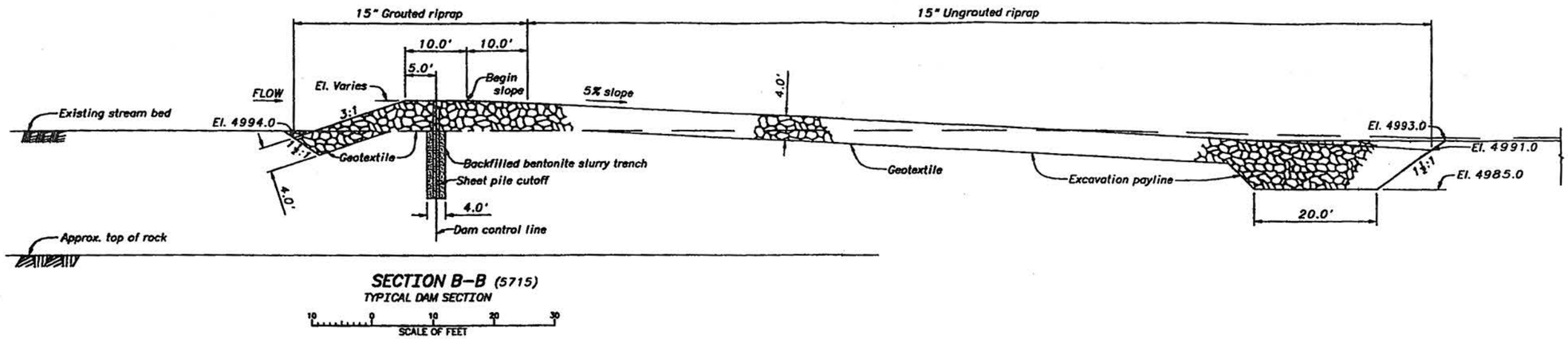
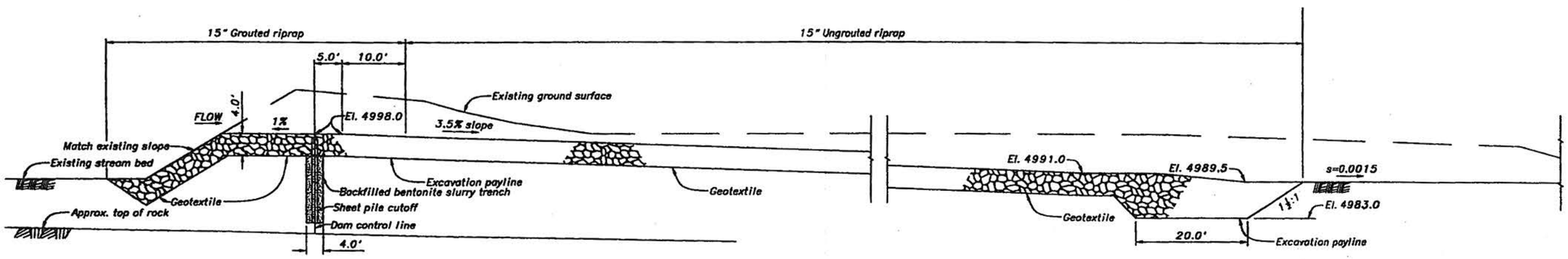
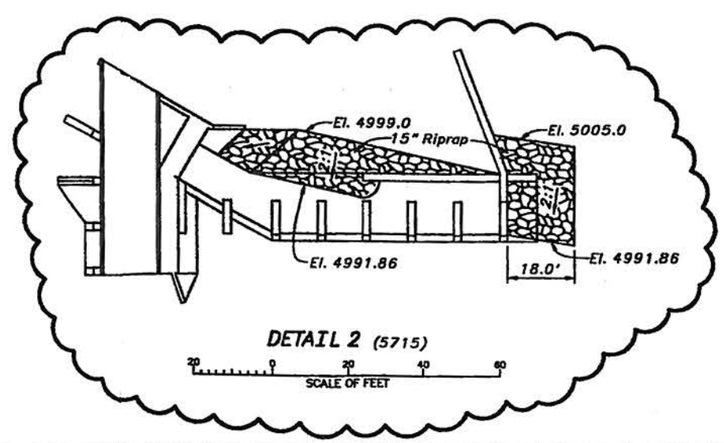


SECTION B–B (5715)
TYPICAL DAM SECTION

10 0 10 20 30
SCALE OF FEET



SECTION C–C (5715)



DETAIL 2 (5715)

20 0 20 40 60
SCALE OF FEET

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8-15-00 D-K.S.	ADDED DETAIL 2
8-24-00 D-K.S.	ADDED HOGBACK DIVERSION DAM FUNDING NOTE AND DELETED PROJECT NAME IN THE TITLE BLOCK (SEE NOTE)

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BUREAU OF RECLAMATION

HOGBACK DIVERSION DAM
GENERAL ARRANGEMENT
SECTIONS

DESIGNED s/K.A.POST. TECH. APPR. s/METAR SUPERV.
DRAWN s/K.A.POST.
CHECKED s/K.S.TAN PEER REVIEW s/RICHARD R. PURDET WATER CONVEYANCE GROUP

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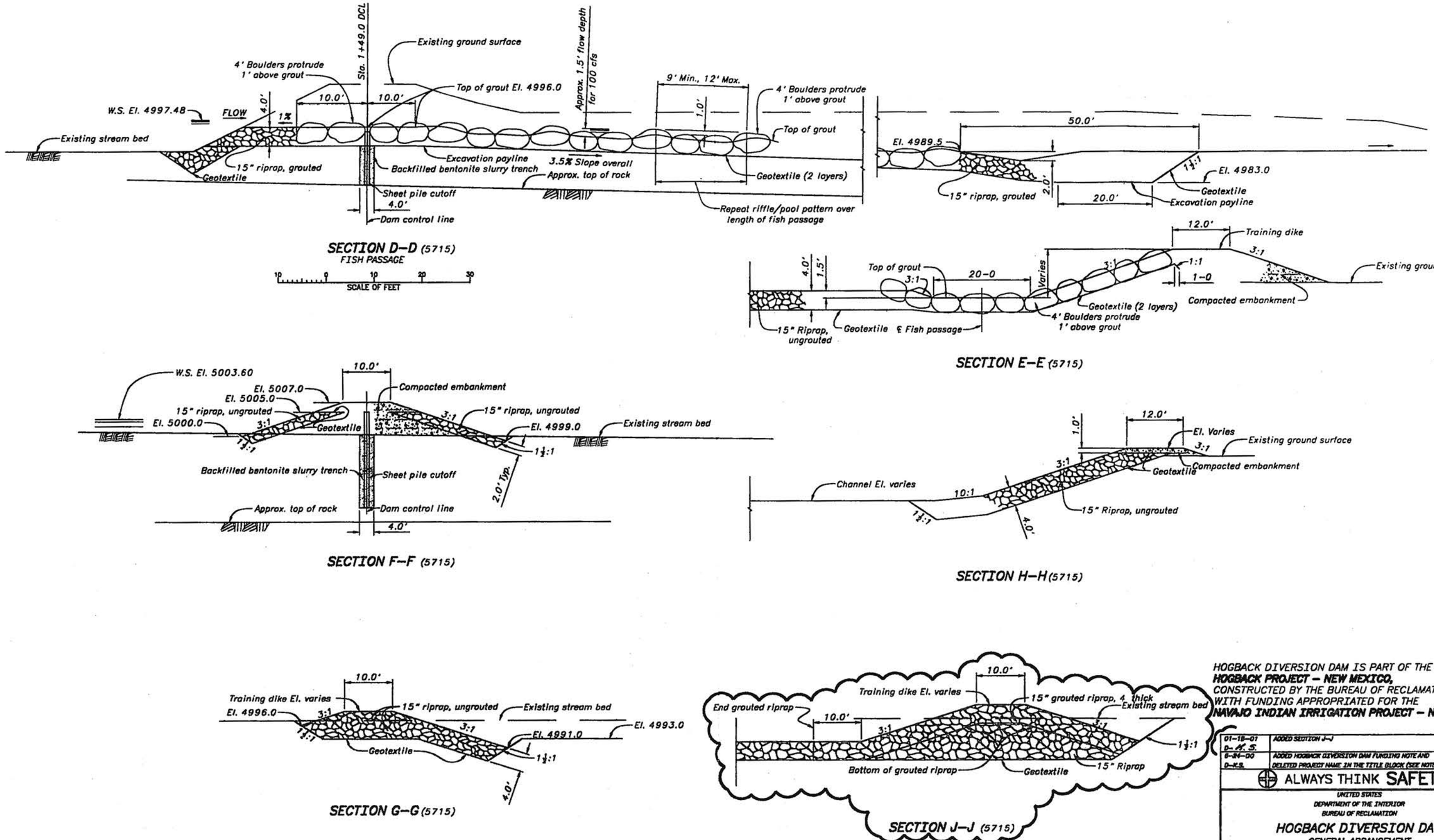

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01-18-01 D-K.S.	ADDED SECTION J-J
6-24-00 D-K.S.	ADDED HOGBACK DIVERSION DAM FUNDING NOTE AND DELETED PROJECT NAME IN THE TITLE BLOCK (SEE NOTE)

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BUREAU OF RECLAMATION

HOGBACK DIVERSION DAM
GENERAL ARRANGEMENT
SECTIONS

DESIGNED s/K.A.BAYER TECH. APPR. s/RICHARD B. FISHER
DRAWN s/K.A.BAYER
CHECKED s/K.G.TAN PEER REVIEW s/RICHARD B. FISHER WATER CONVEYANCE GROUP

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DENVER, COLORADO SHEET 4 OF 4 MAY 5, 1999 809-D-5718