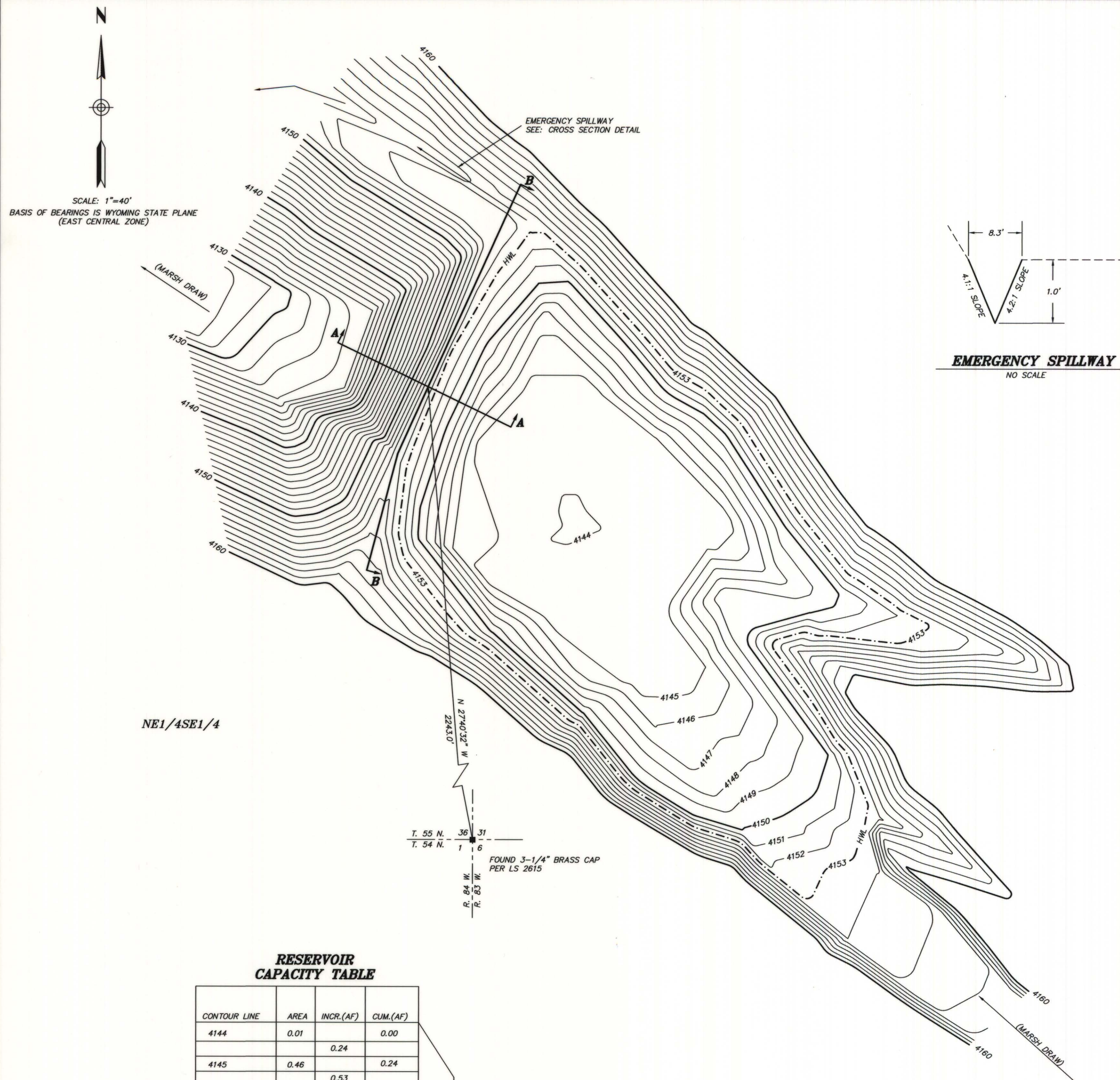




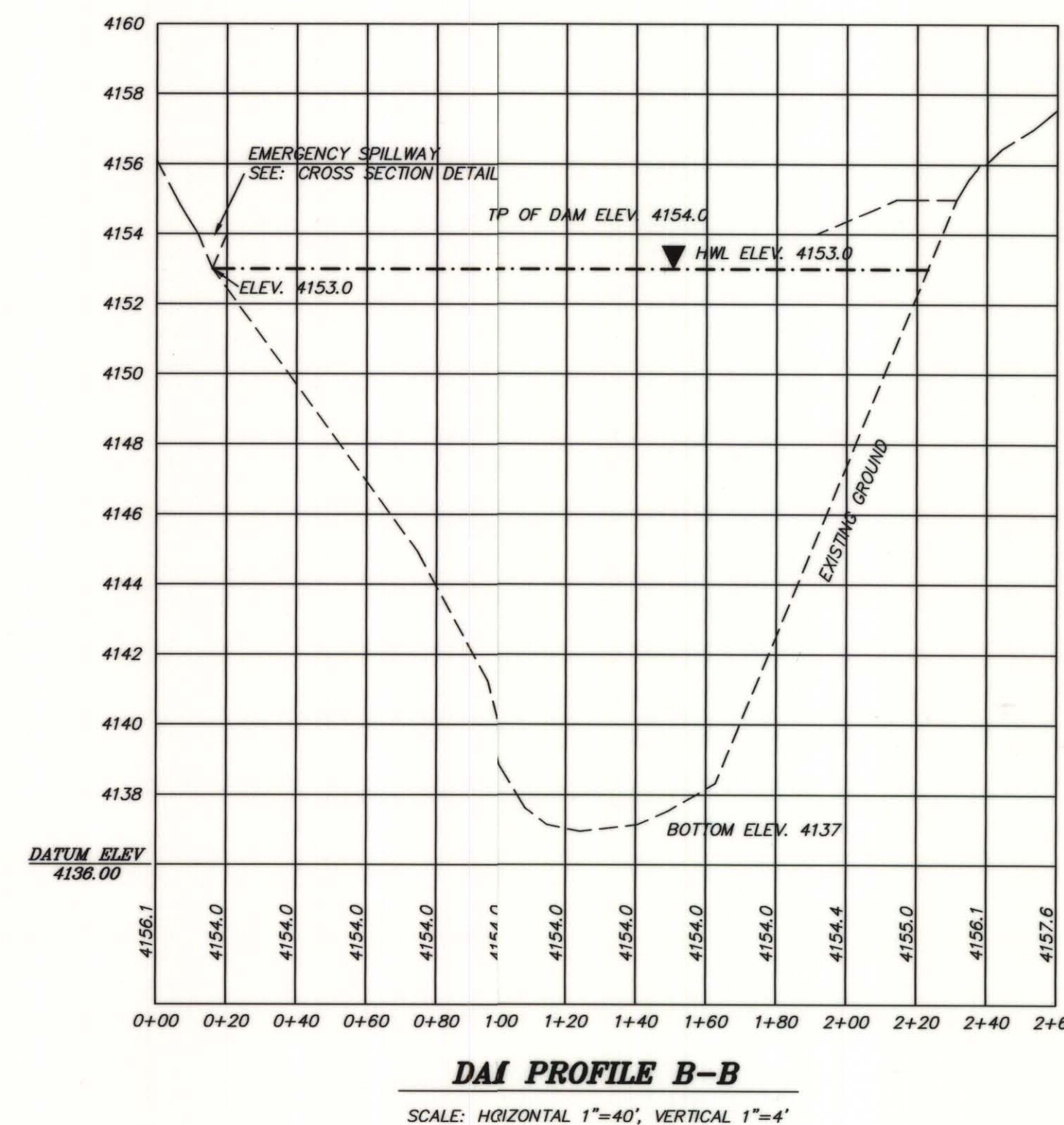
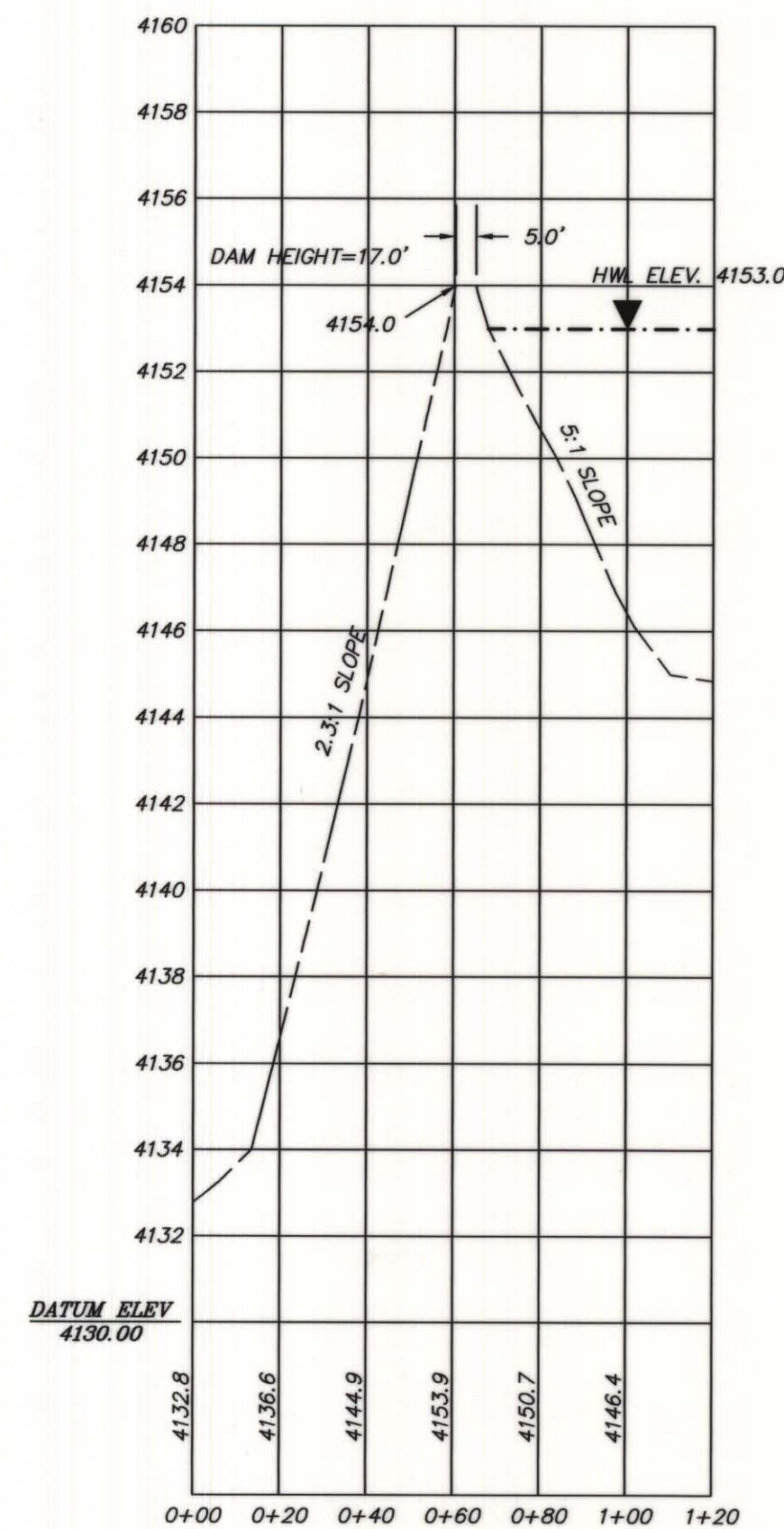
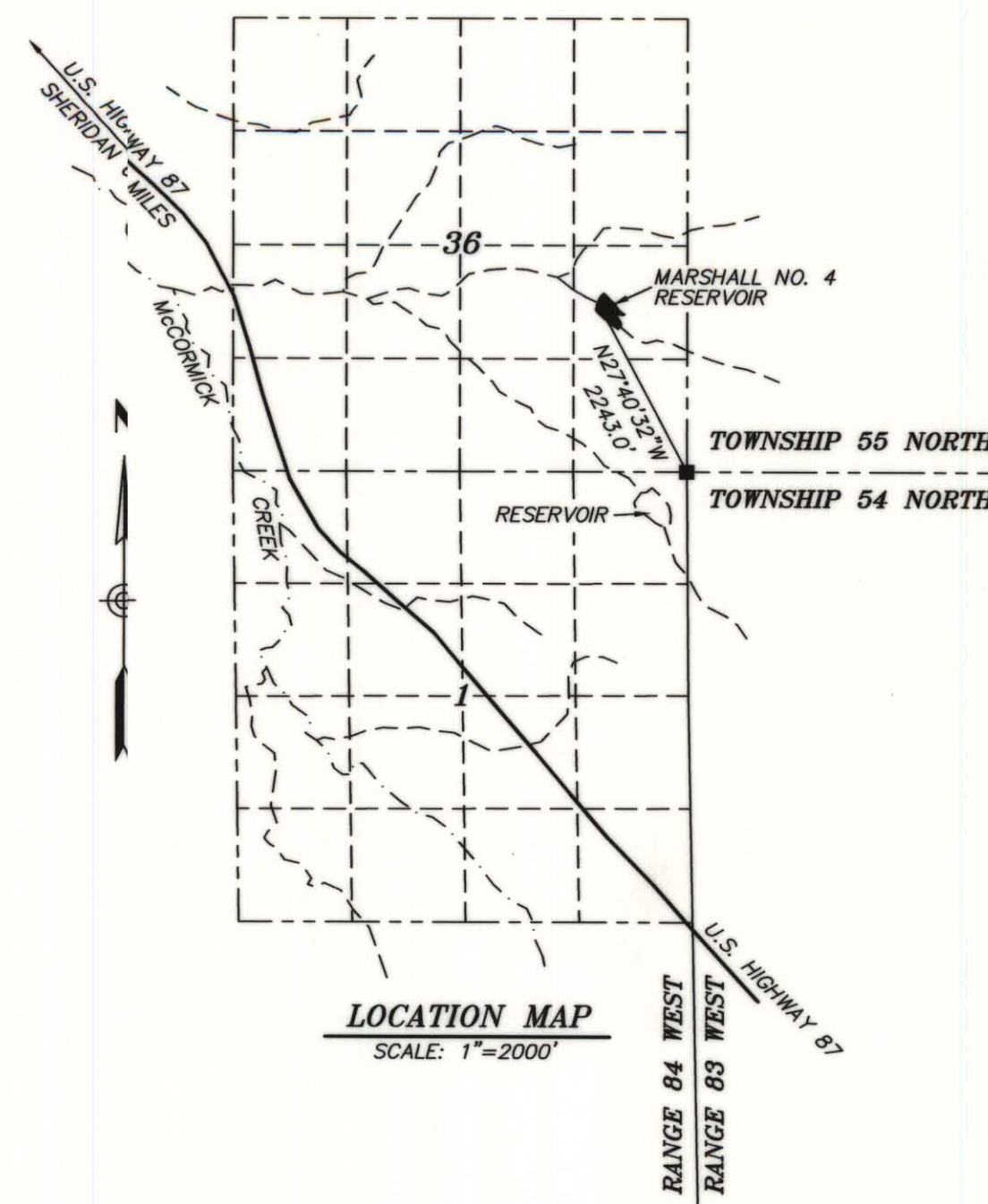
RESERVOIR CAPACITY TABLE

CONTOUR LINE	AREA	INCR.(AF)	CUM.(AF)
4144	0.01	0.24	0.00
4145	0.46	0.53	0.24
4146	0.60	0.66	0.77
4147	0.72	0.79	1.43
4148	0.86	0.93	2.22
4149	1.00	1.08	3.15
4150	1.16	1.22	4.23
4151	1.28	1.34	5.45
4152	1.40	1.47	6.79
4153 (H.W.)	1.53		8.26
TOTAL			8.26

MARSHALL NO. 4 RESERVOIR
FOR STOCK USAGE, WATER IS A FLOW THROUGH
FROM (MARSH DRAW), USE WILL BE FOR STOCK ONLY
H.W.L. AREA=1.53 ACRES MAXIMUM DEPTH=10.0' CAPACITY=8.26 Ac. ft.
(AREAS AND VOLUME CALCULATED WITH DCA AUTO-CAD)

EMERGENCY SPILLWAY HYDRAULICS:
S= 0.0145 FT/FT
R= 0.49
V= 3.69 FPS
A= 4.15 SF
N= 0.030
Q= 15.30 CFS

THE HYDRAULIC COMPUTATIONS WERE MADE WITH MANNING'S FORMULA
FLOWMASTER 1 (HAESTAD METHODS)

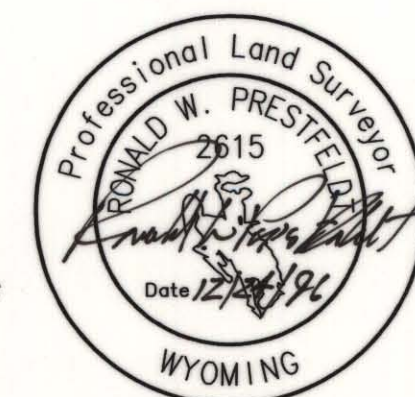


SURVEYOR'S CERTIFICATE

STATE OF WYOMING :ss
COUNTY OF SHERIDAN

I, RONALD W. PRESTFELDT A DULY REGISTERED LAND SURVEYOR IN THE STATE OF WYOMING, DO HEREBY CERTIFY THAT THIS PLAT TRULY AND CORRECTLY REPRESENTS THE RESULTS OF A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION DURING OCTOBER, 1994.

RONALD W. PRESTFELDT WY L.S. 2615



APPROVED: May 18, 1997
GORDON W. FUSSETT, STATE ENGINEER

MAP
TO ACCOMPANY APPLICATION FOR THE MARSHALL NO. 4 RESERVOIR

APPLICANT:
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SHERIDAN, WYOMING 82801

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JUL 93018
DN: 93018094
MAY 15, 1996

TF 29 5/182

File: 8-3

ALCRES SEP 12 1997

10523 Res.