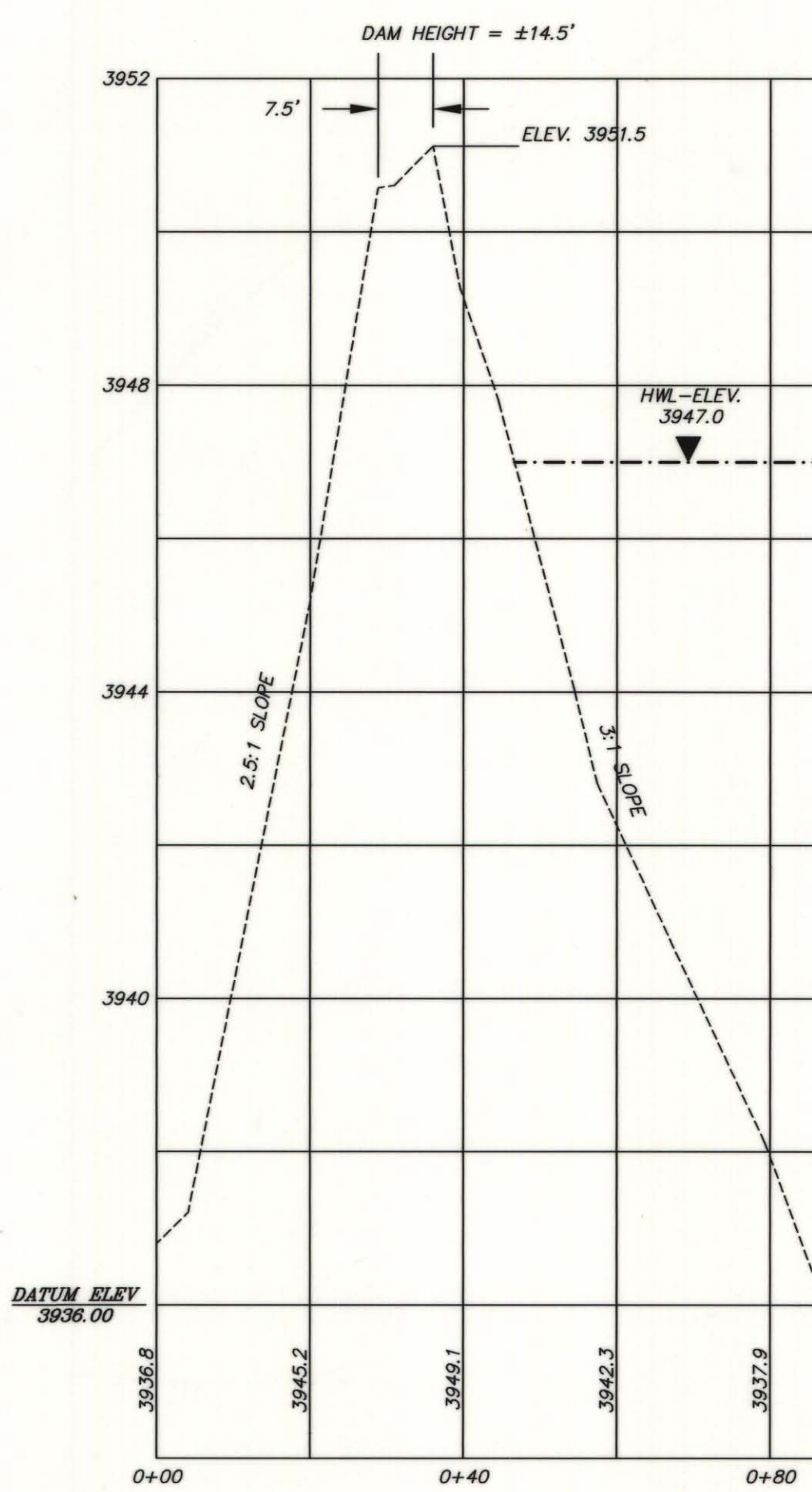
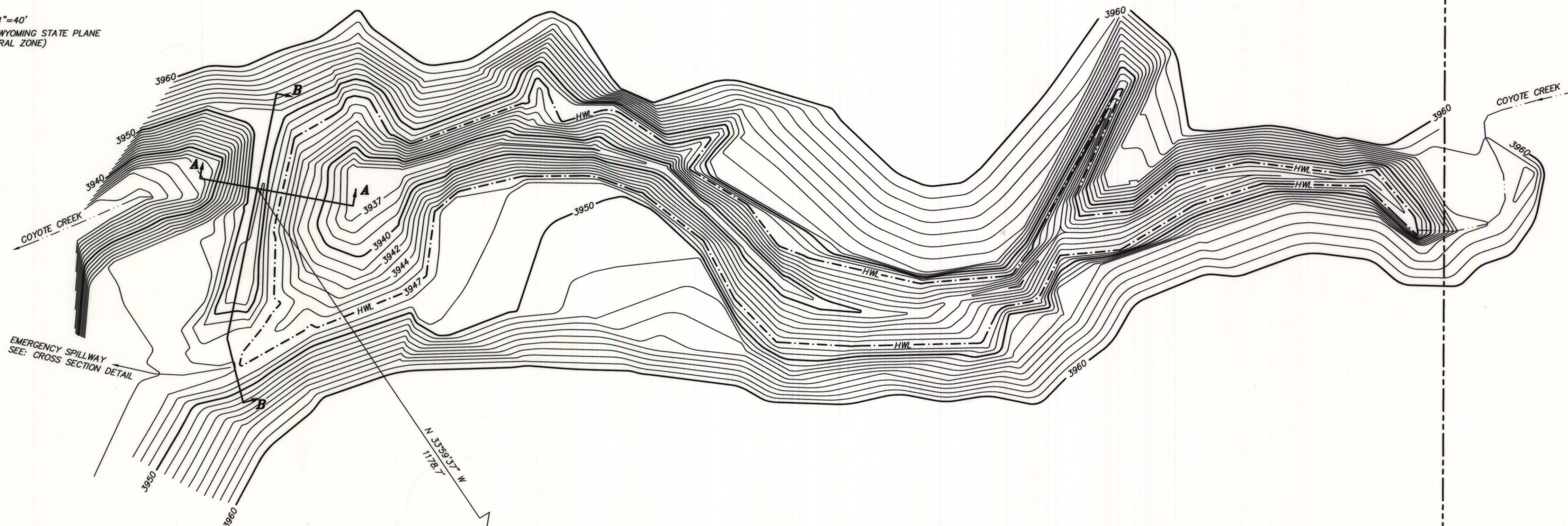
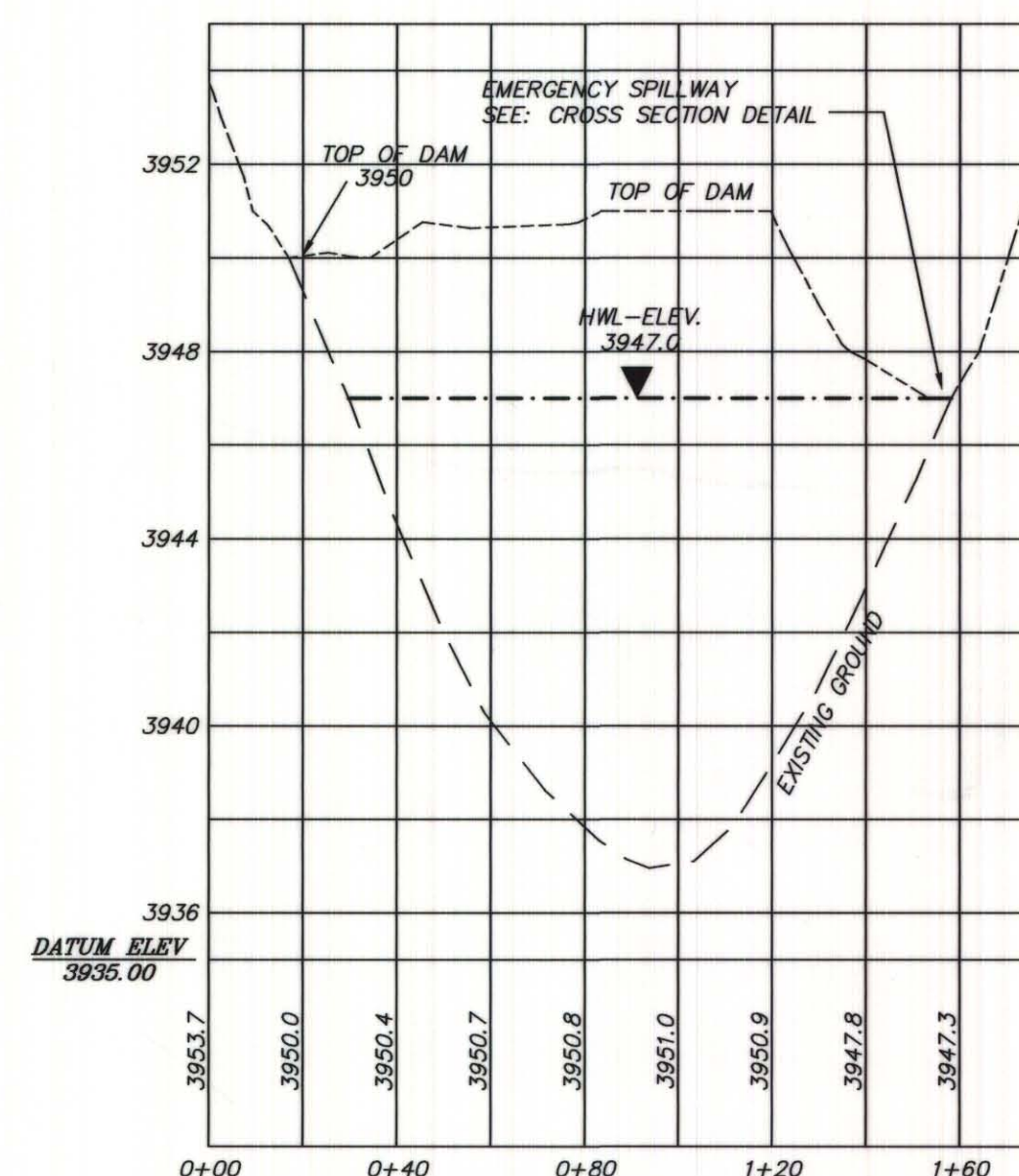


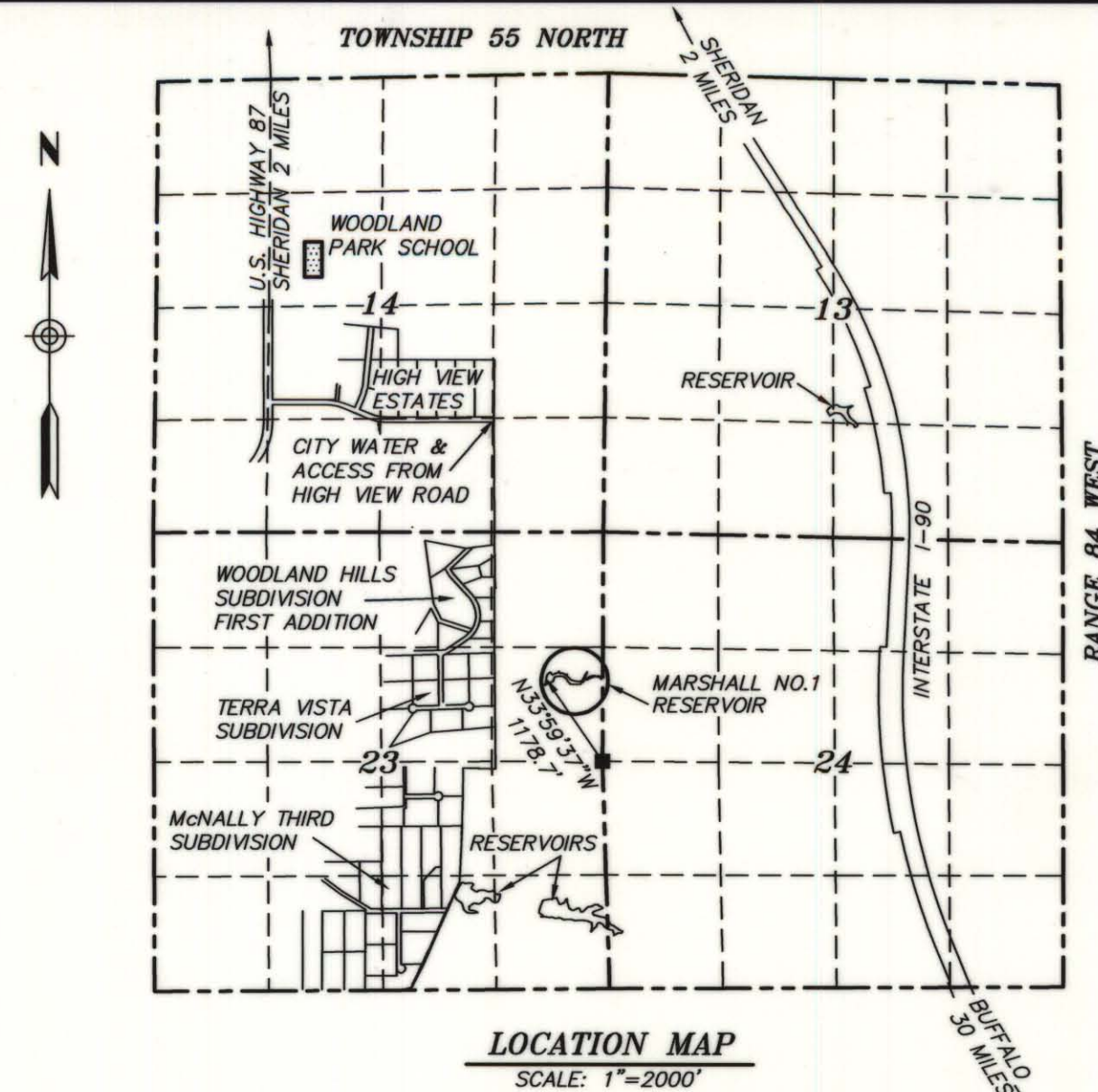
N
SCALE: 1"=40'
BASIS OF BEARINGS IS WYOMING STATE PLANE
(EAST CENTRAL ZONE)



DAM CROSS SECTION A-A
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=2'



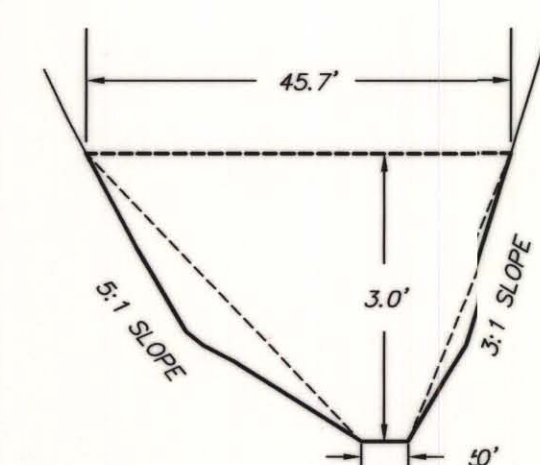
DAM PROFILE B-B
SCALE: HORIZONTAL 1"=40', VERTICAL 1"=4'



RESERVOIR CAPACITY TABLE

CONTOUR LINE	AREA	INCR.(AF)	CUM.(AF)
3937	0.02		0.00
		0.03	0.03
3938	0.04		0.07
		0.06	0.13
3939	0.07		0.20
		0.09	0.29
3940	0.11		0.40
		0.14	0.54
3941	0.16		0.70
		0.18	0.88
3942	0.20		1.08
		0.23	1.31
3943	0.26		1.57
		0.30	1.87
3944	0.34		2.21
		0.38	2.59
3945	0.42		3.01
		0.47	3.48
3946	0.51		4.00
		0.56	4.56
3947 (H.W.)	0.61		5.17
TOTAL			5.17

INACTIVE CAPACITY
2.44 ACRE FEET
STOCK USAGE



EMERGENCY SPILLWAY
NO SCALE

MARSHALL NO. 1 RESERVOIR
FOR STOCK USAGE: WATER IS A FLOW THROUGH
FROM COYOTE CREEK AND USE WILL BE FOR STOCK ONLY
H.W.L. AREA=0.61 ACRES MAXIMUM DEPTH=10' CAPACITY=2.44 Ac. Ft.
(AREAS AND VOLUME CALCULATED WITH DCA AUTO-CAD)

EMERGENCY SPILLWAY HYDRAULICS:

S= 0.024 FT/FT
R= 1.71
V= 10.84 FPS
A= 51.00 SF
N= 0.030
Q= 557.80 CFS

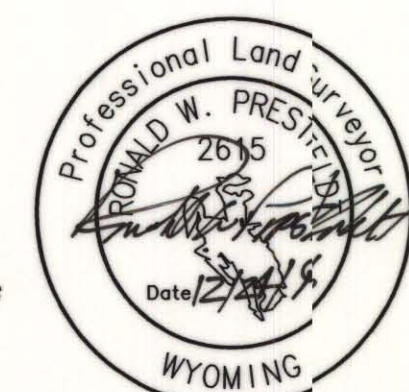
THE HYDRAULIC COMPUTATIONS WERE MADE WITH MANNING'S FORMULA
FLOWMASTER 1 (HAESTAD METHODS)

SURVEYOR'S CERTIFICATE

STATE OF WYOMING
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

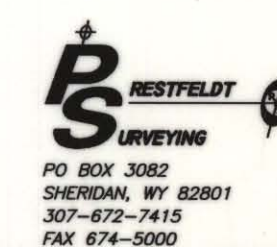


MAP

TO ACCOMPANY APPLICATION FOR THE MARSHALL NO. 1 RESERVOIR

APPLICANT:

BILL DOENZ
P.O. BOX 6474
SHERIDAN, WYOMING 82801



APPROVED: May 18, 1997

GORDON W. FASSETT, STATE ENGINEER

TF 29 7/182 File: H-3

MAY 12 1997

10520 Res.