

BASIS OF BEARINGS IS WYOMING STATE PLANE
(EAST CENTRAL ZONE)



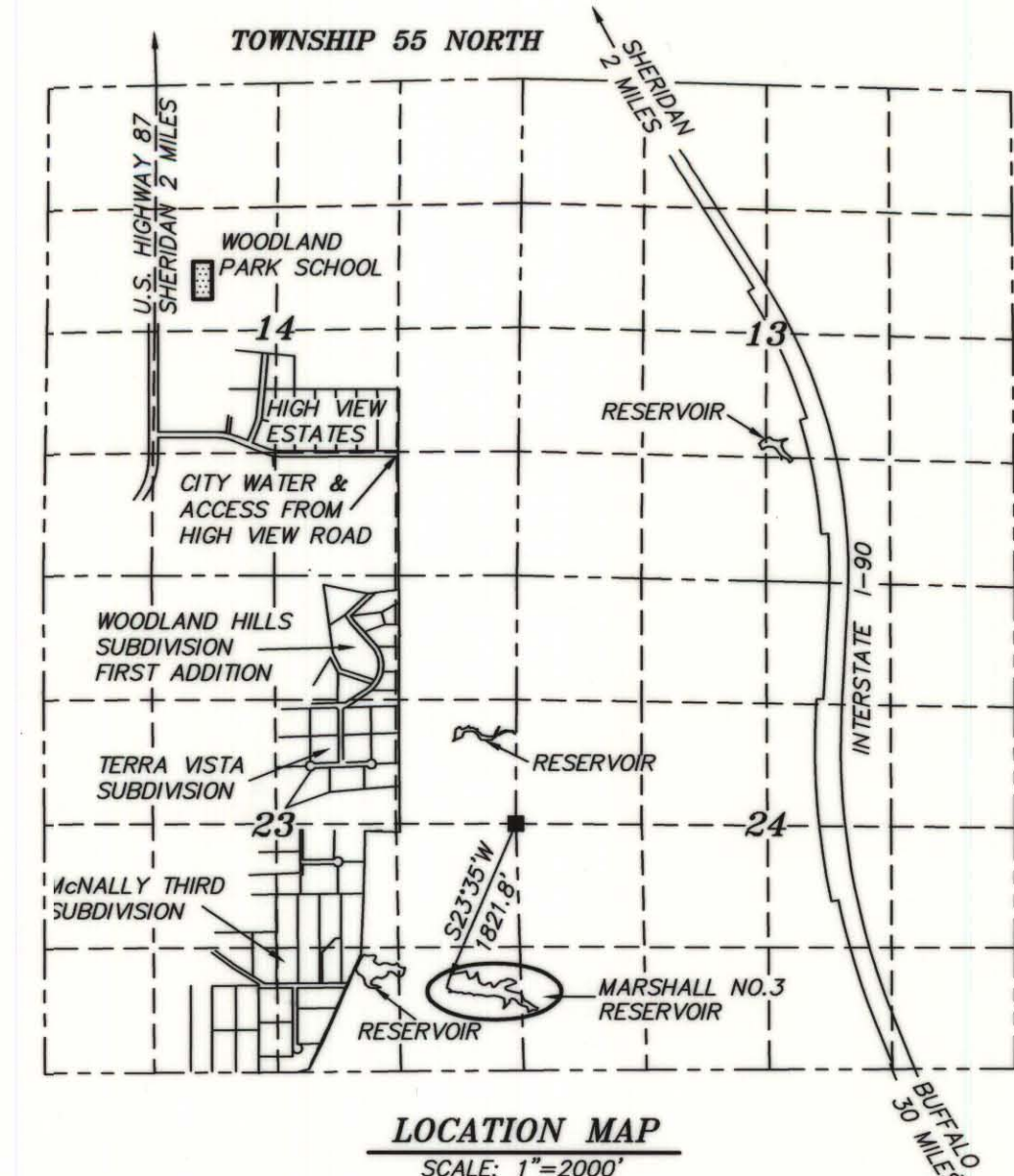
SCALE: 1"=50'

EMERGENCY SPILLWAY
SEE: CROSS SECTION DETAIL

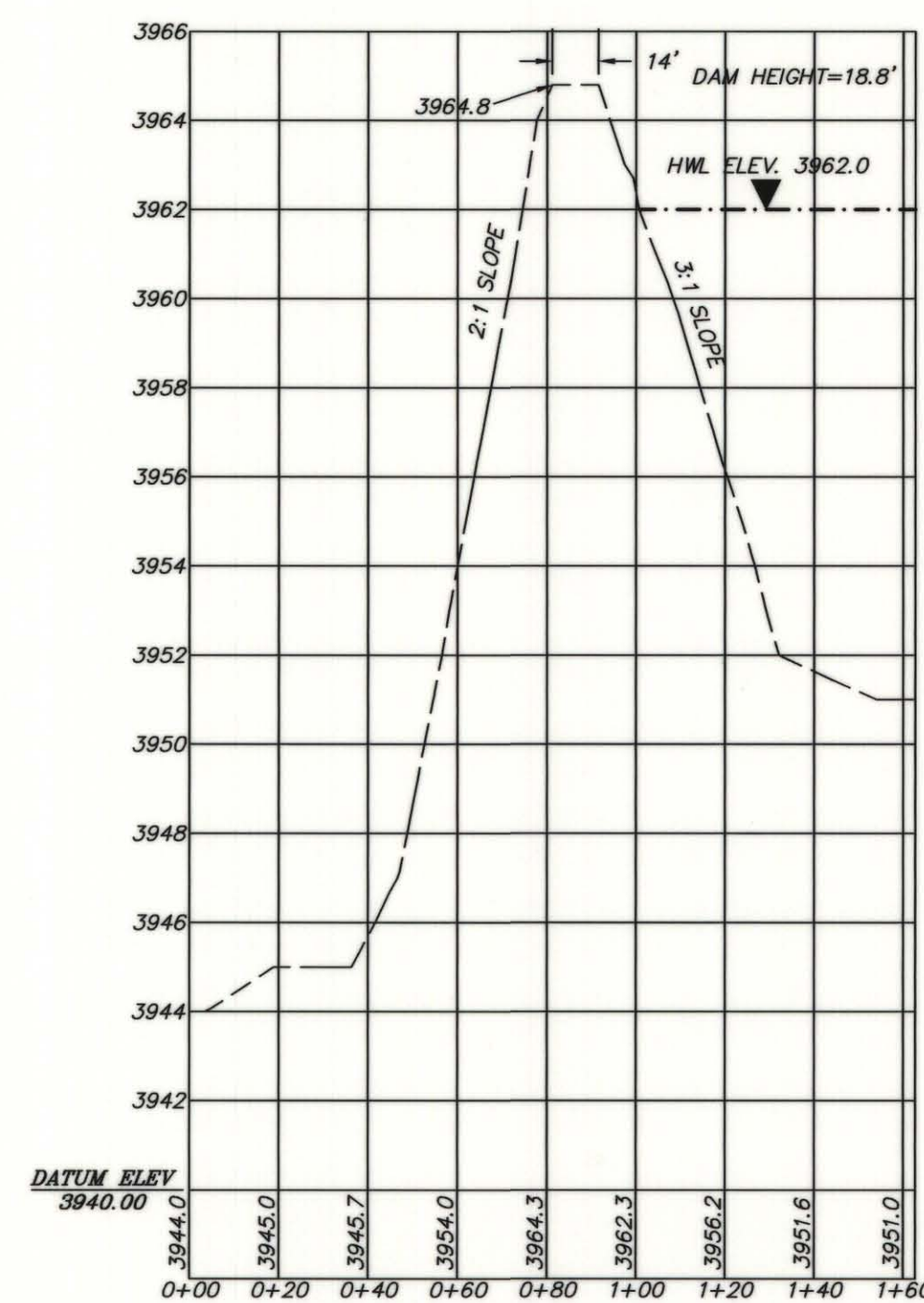
S 23°35' W
1821.8'
1/4 23/24
FOUND ALUMINUM CAP
PER LS 2615

SE1/4SE1/4 SW1/4SW1/4

SECTION 23
SECTION 24

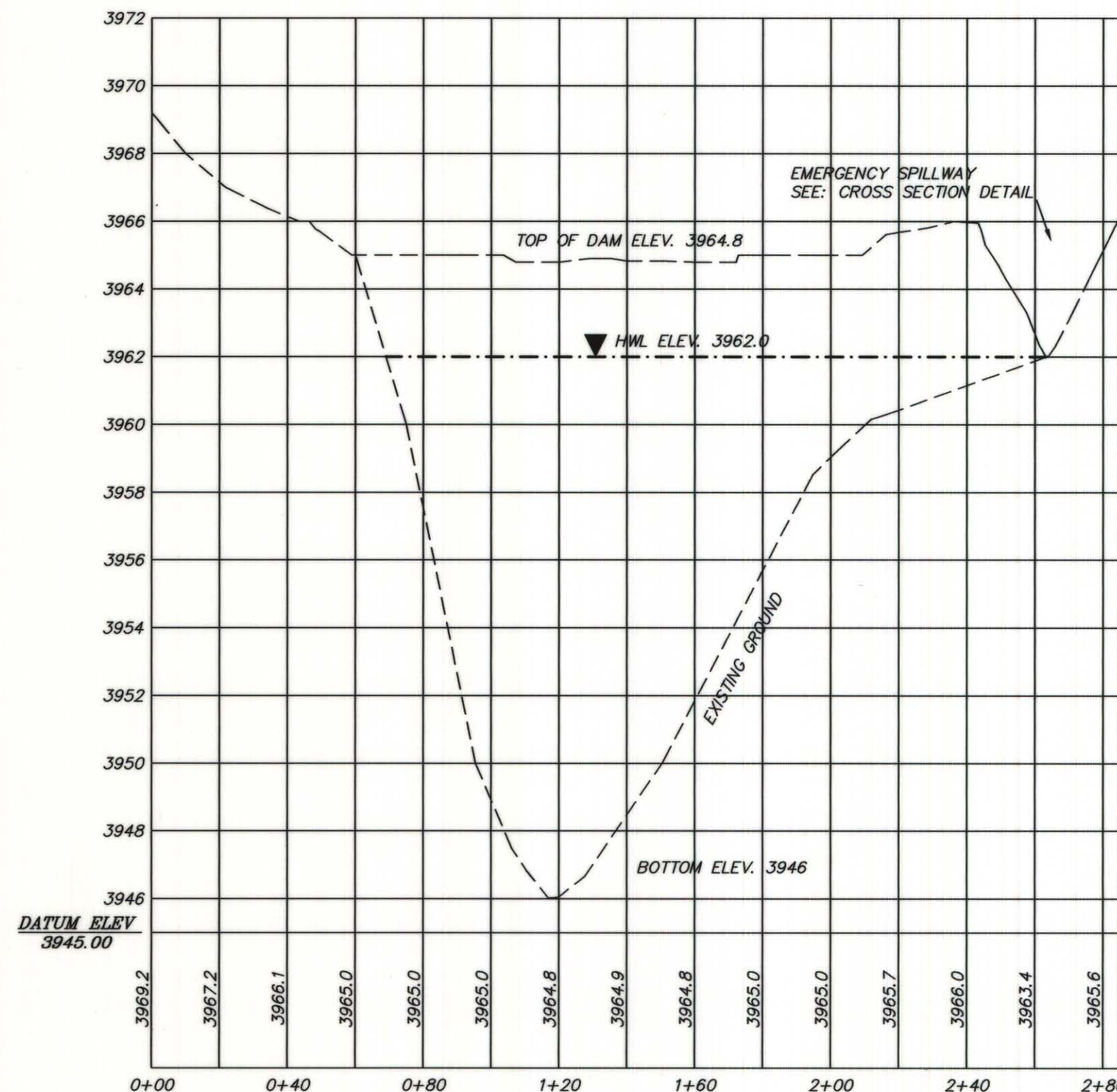


LOCATION MAP
SCALE: 1"=2000'



DAM CROSS SECTION A-A

SCALE: HORIZONTAL 1"=40', VERTICAL 1"=4'



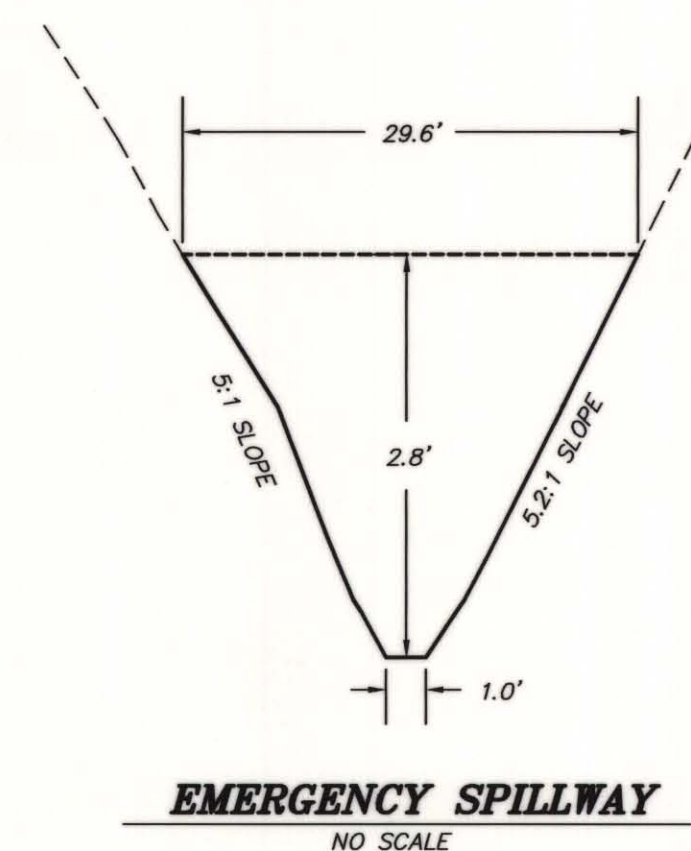
DAM PROFILE B-B

SCALE: HORIZONTAL 1"=40', VERTICAL 1"=4'

RESERVOIR
CAPACITY TABLE

CONTOUR LINE	AREA	INCR.(AF)	CUM.(AF)
3949	0.09	0.17	0.00
3950	0.24	0.34	0.17
3951	0.43	0.55	0.51
3952	0.67	0.78	1.06
3953	0.89	1.00	1.84
3954	1.11	1.22	2.84
3955	1.33	1.44	4.06
3956	1.54	1.65	5.50
3957	1.75	1.86	7.15
3958	1.97	2.09	9.01
3959	2.21	2.34	11.10
3960	2.47	2.61	13.44
3961	2.74	2.95	16.05
3962(H.W.L.)	3.16		19.00
TOTAL			19.00

INACTIVE CAPACITY
19.00 ACRE FEET
STOCK USAGE



EMERGENCY SPILLWAY
NO SCALE

MARSHALL NO. 3 RESERVOIR
FOR STOCK USAGE: WATER IS A FLOW THROUGH
FROM (WITHROW DRAW), USE WILL BE FOR STOCK ONLY
H.W.L. AREA=3.16 ACRES MAXIMUM DEPTH=18.8' CAPACITY=19.00 Ac. ft.
(AREAS AND VOLUME CALCULATED WITH DCA AUTO-CAD)

EMERGENCY SPILLWAY HYDRAULICS:

S= 0.0250 FT/FT
R= 1.42
V= 9.90 FPS
A= 42.78 SF
N= 0.030
Q= 423.56 CFS

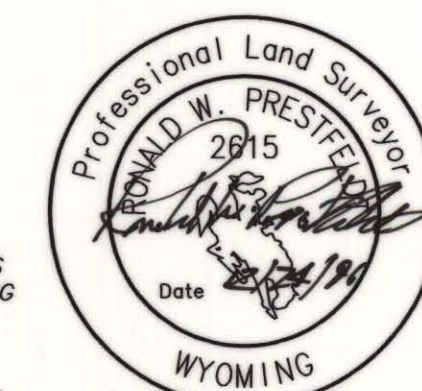
THE HYDRAULIC COMPUTATIONS WERE MADE WITH MANNING'S FORMULA
FLOWMASTER 1 (HAESTAD METHODS)

SURVEYOR'S CERTIFICATE

STATE OF WYOMING :89
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
RONALD W. PRESTFELDT WY L.S. 2615



MAP

TO ACCOMPANY APPLICATION FOR THE MARSHALL NO. 3 RESERVOIR

APPLICANT:

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



JN: 63014
DN: 63016003
MAY 15, 1995

APPROVED: May 18, 1997

Gordon W. Fassett, STATE ENGINEER

TF 29 4/82

File: 4-3

MICRO SEP 12 1997

10522 Res.