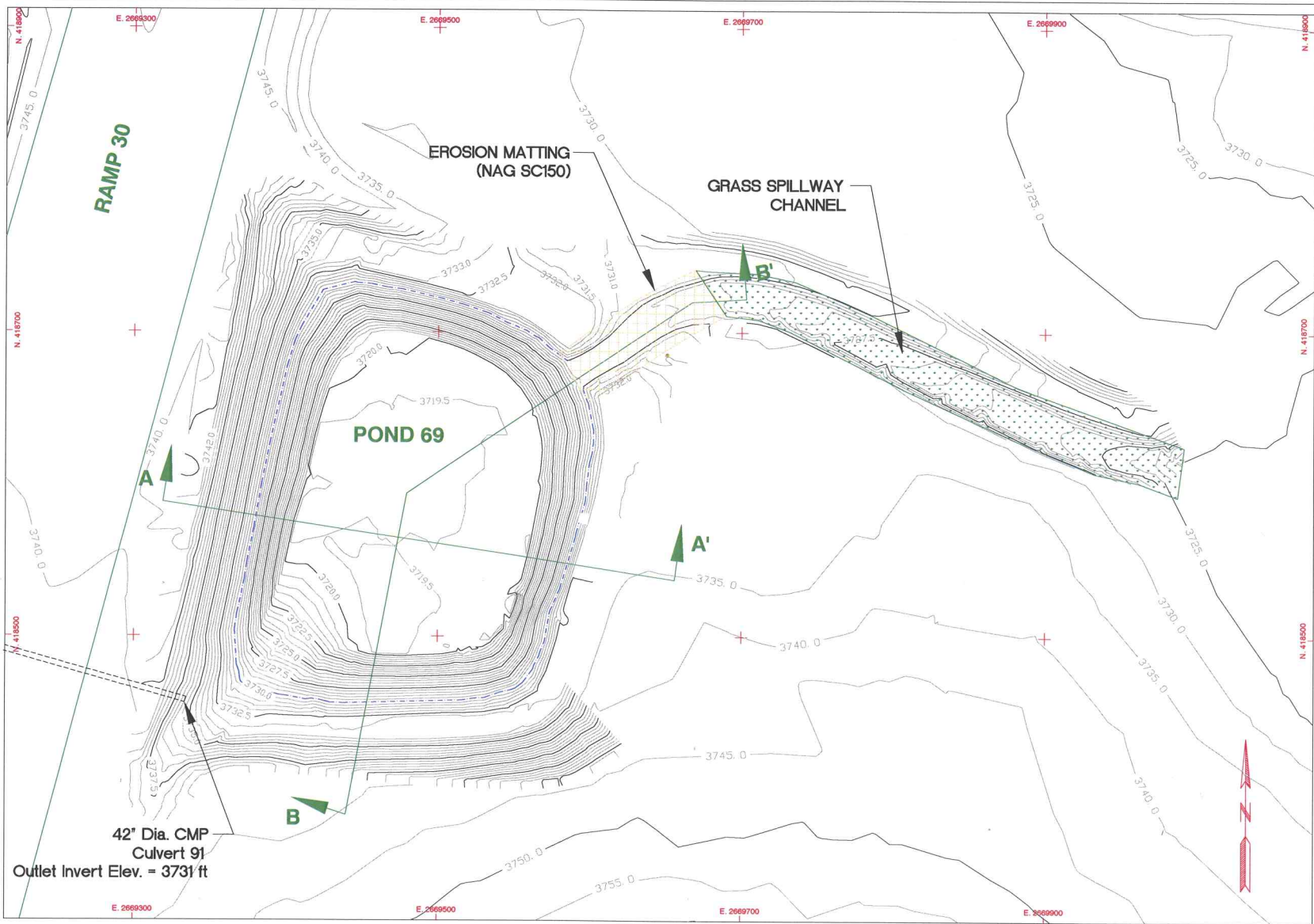
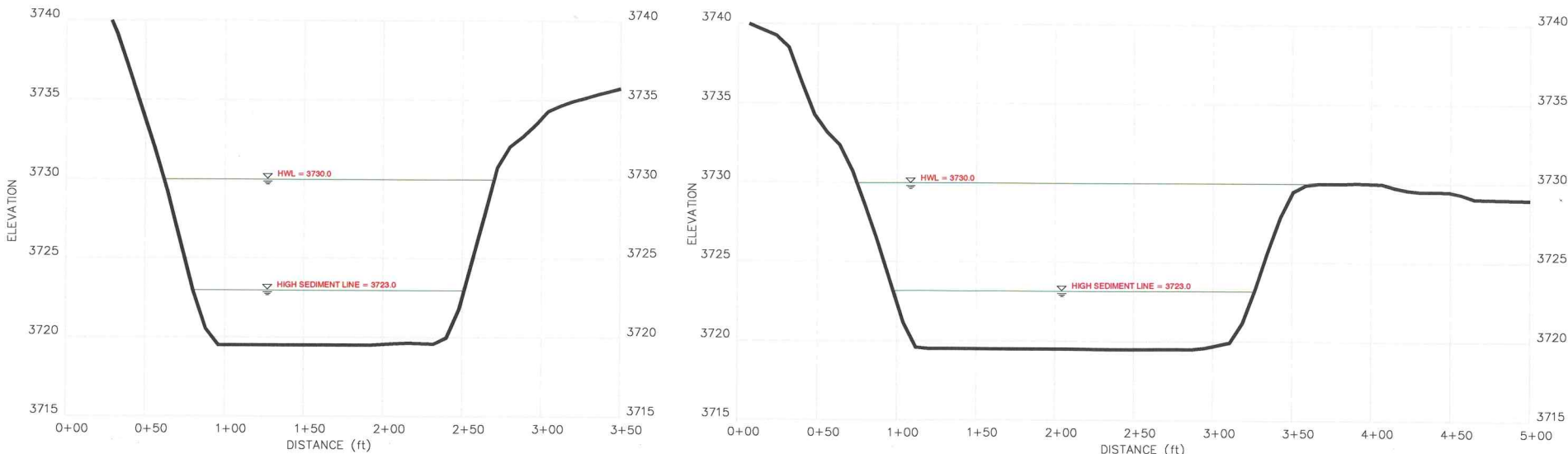




PLAN VIEW

SCALE: 1" = 100'; C.I. = AS SHOWN



SECTION A-A'

SCALE: HORIZ. 1" = 100', VERT. 1" = 10'

SECTION B-B'

SCALE: HORIZ. 1" = 100', VERT. 1" = 10'

HYDROLOGIC DESIGN STORM CALCULATIONS

DRAINAGE BASIN PARAMETERS					25-YR, 24-HR STORM		10-YR, 24-HR STORM		
DRAINAGE AREA (sq-mi)	WATERCOURSE LENGTH (mi)	ELEVATION DIFFERENCE (ft)	CURVE NO. (CN)	INFILTRATION LOSS (lph)	25-YR, 24-HR PRECIP. (in)	PEAK INFLOW (cfs)	10-YR, 24-HR PRECIP. (in)	PEAK INFLOW (cfs)	RUNOFF VOLUME (ac-ft)
0.165	0.59	130	82 (area weighted)	0.0	2.65	91.4	2.19	61.9	6.89

NOTE: RUNOFF VOLUMES AND PEAK INFLOWS WERE COMPUTED USING THE NRCS TR-55 TABULAR HYDROGRAPH METHOD.

SEDIMENT CAPACITY CALCULATIONS

SOURCE AREA (ac)	3 YEAR SEDIMENT YIELD (ac-ft/ac/3 yr)	3 YEAR SEDIMENT YIELD (ac-ft/3 yr)	RESERVOIR SEDIMENT STORAGE CAPACITY (ac-ft)	60% OF 3 YR SED. YIELD AND ADDITIONAL STORAGE CAPACITY (ac-ft)
106	0.020	2.12	2.35	1.41

NOTE: SEDIMENT YIELD COMPUTED IN APPROVED DESIGN PLANS DIFFERS FROM THE DESIGN YIELD IN THIS TABLE. DESIGN PLAN SEDIMENT YIELD WAS CHANGED FROM 0.035 AC-FT/AC/3 YR TO 0.02 AC-FT/AC/3 YR; THIS LOWER SEDIMENT YIELD STILL MEETS REQUIREMENTS IN ARM 17.24.639(1)(c)(i)(B).

AREA CAPACITY TABLE

ELEVATION (ft)	AREA (ac)	AVG. AREA (ac)	CAPACITY (ac-ft)	
			INCR.	ACCUM.
3719.5	0.28			0.00
3720.0	0.61	0.44	0.22	0.22
3721.0	0.69	0.65	0.65	0.87
3721.8	0.73	0.71	0.57	1.41
3722.0	0.74	0.73	0.14	1.58
3722.0	0.74	0.77	0.77	2.35
3723.0	0.79	0.82	0.82	3.16
3724.0	0.84	0.87	0.87	4.04
3725.0	0.90	0.92	0.92	4.96
3726.0	0.95	0.98	0.98	5.94
3727.0	1.01	1.04	1.04	6.98
3728.0	1.07	1.10	1.10	8.07
3729.0	1.13	1.16	1.16	9.24
3730.0	1.19	1.23	1.23	10.47
3731.0	1.26	1.30	1.30	11.77
3731.0	1.34			

60% OF TOTAL SED STORAGE APPROX. 1.41 ac-ft
TOTAL SED STORAGE 2.35 ac-ft
10-YR 24-HR RUNOFF STORAGE 6.89 ac-ft
H.W.L.
INACTIVE FREEBOARD CAPACITY 2.53 AC-FT

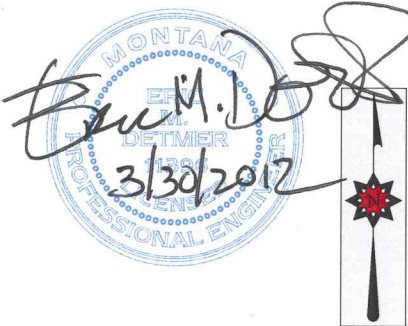


CERTIFICATE OF ENGINEER

I, Eric M. Detmer, hereby certify that this drawing was prepared by myself or by engineers under my direct supervision and that it correctly represents the existing facility. The pond was constructed per the approved design with exceptions noted below.

Exceptions:
1) Sediment storage design criteria changed from 0.035 to 0.02 ac-ft/ac/3 yrs.

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30th DAY OF March, 2012
NOTARY PUBLIC Jennifer Dahmer
RESIDING IN Sheridan, WY
MY COMMISSION EXPIRES February 17, 2016



		SPRING CREEK MINE P.O. BOX 67, DECKER, MT 59025 PHONE: (406) 757-2581					
DATE	REVISION	POND 69 AS-BUILT DRAWING					
BY							
DESIGN	SCC	DRAWN	SCC	DATE	03/12	SHEET	1 OF 1
SCALE	As Shown	CONTOUR INTERVAL	As Shown	FILE NUMBER	AB Survey Pond 69.dwg		