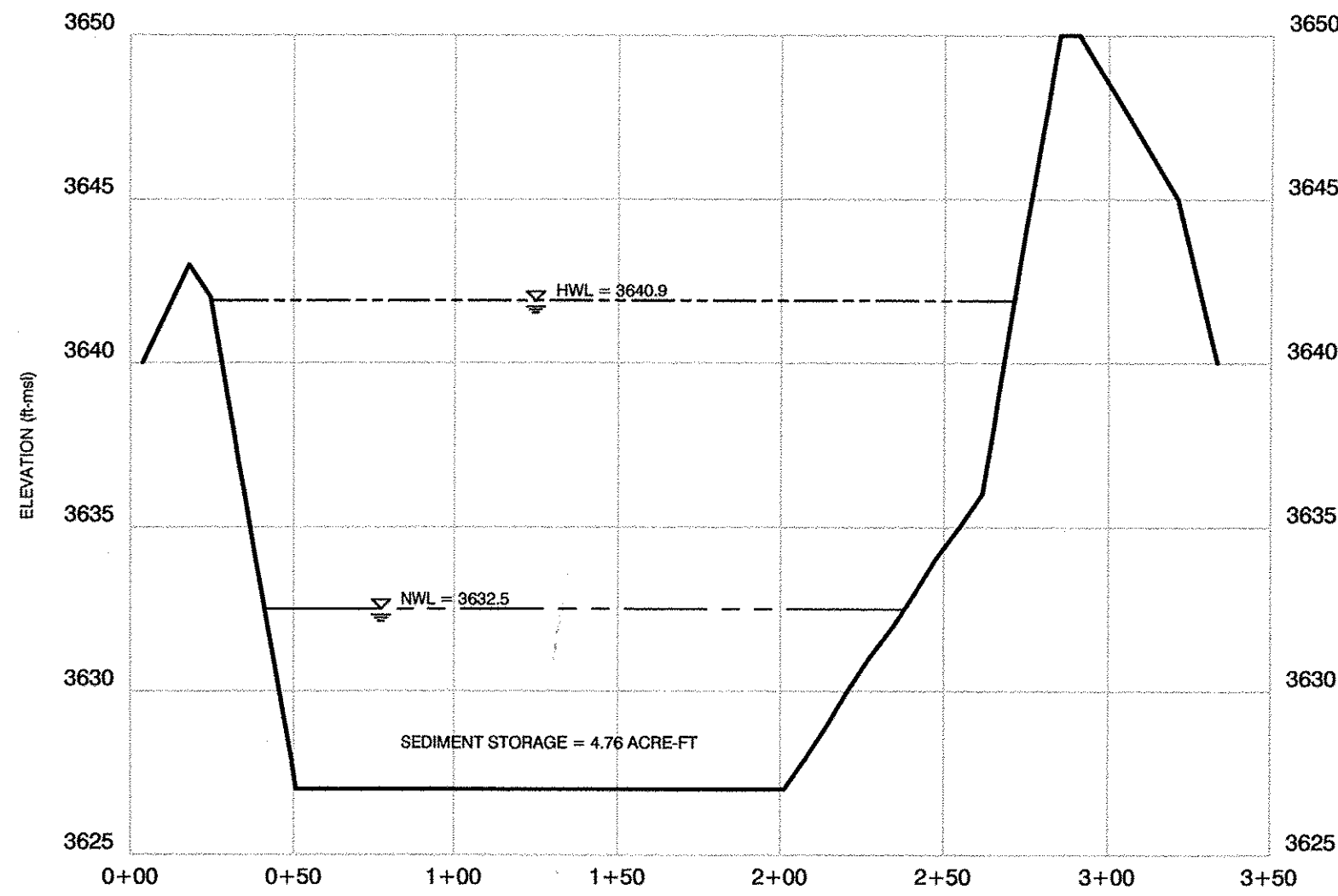
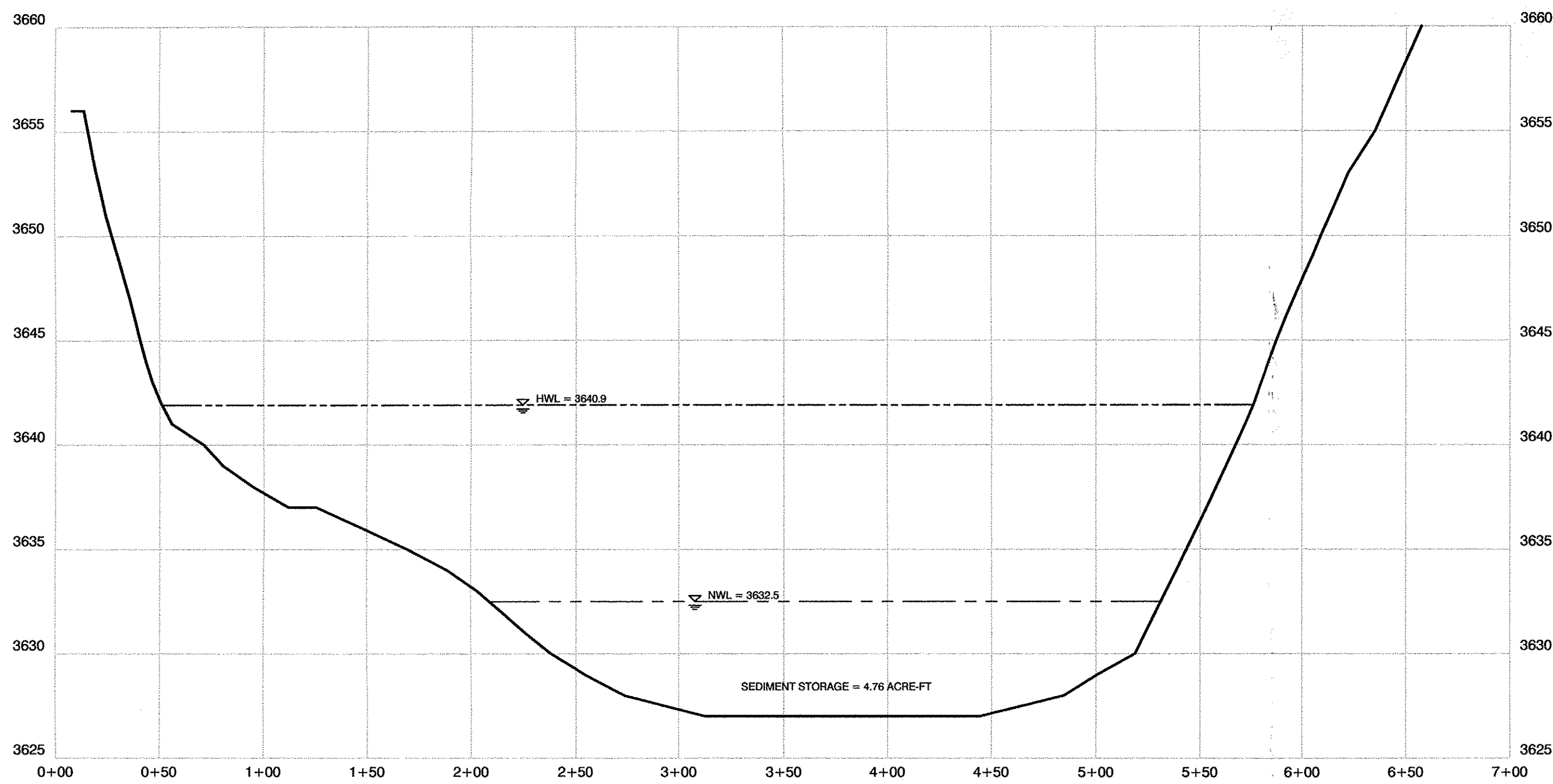
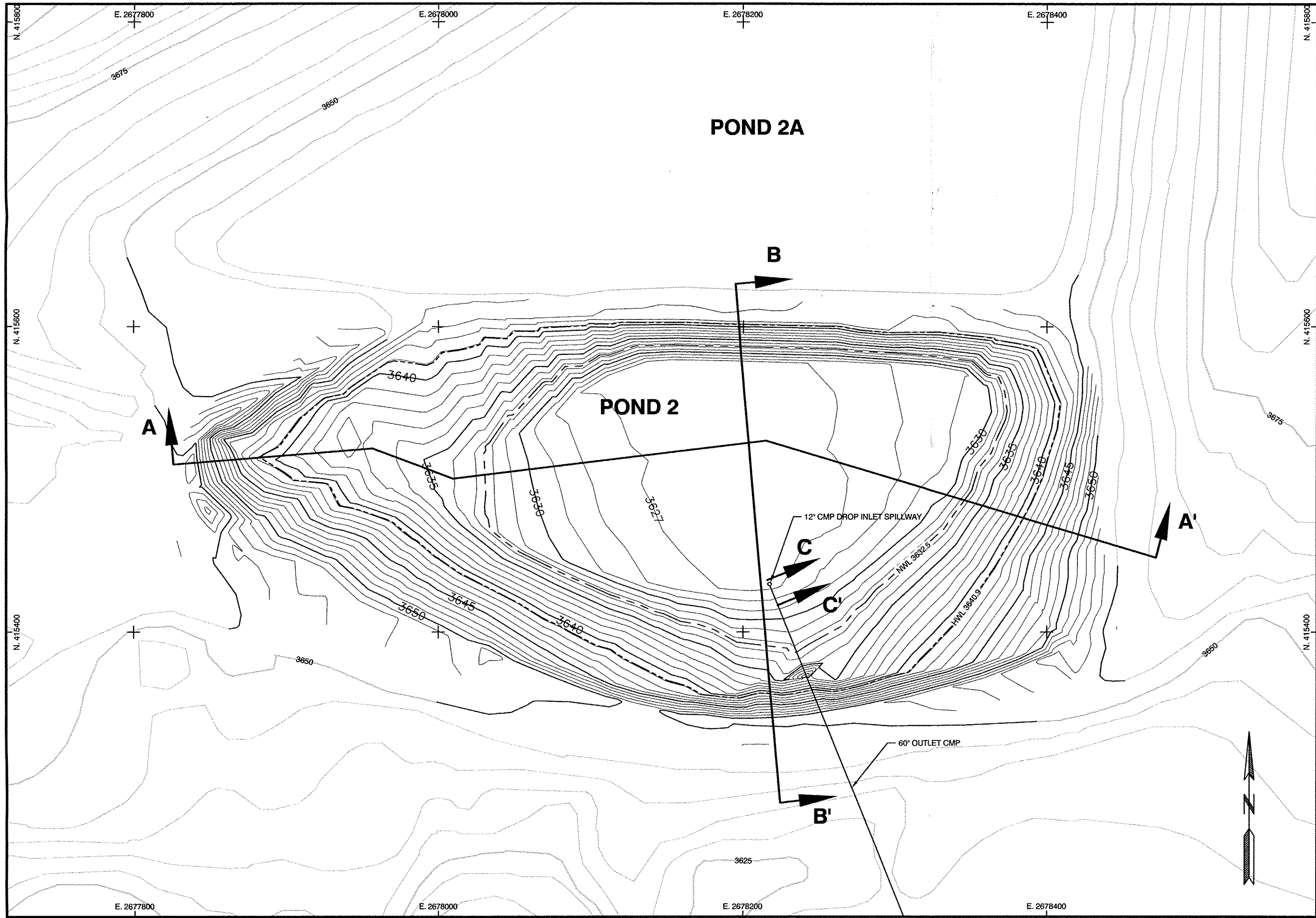




HYDROLOGIC DESIGN STORM CALCULATIONS

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 (iph)	25-YR, 24-HR PRECIP. (in)	PEAK INFLOW (cfs)	RUNOFF VOLUME (ac-ft)	10-YR, 24-HR PRECIP. (in)	PEAK INFLOW (cfs)	RUNOFF VOLUME (ac-ft)
0.37	2.80	160	73	0.0	2.65	48.93	12.98	2.19	27.74	8.17

NOTE: RUNOFF VOLUMES AND PEAK INFLOWS WERE COMPUTED BY THE RAINFALL/RUNOFF PROGRAM "TRIHYDRO" USING THE SCS TYPE II DISTRIBUTION.

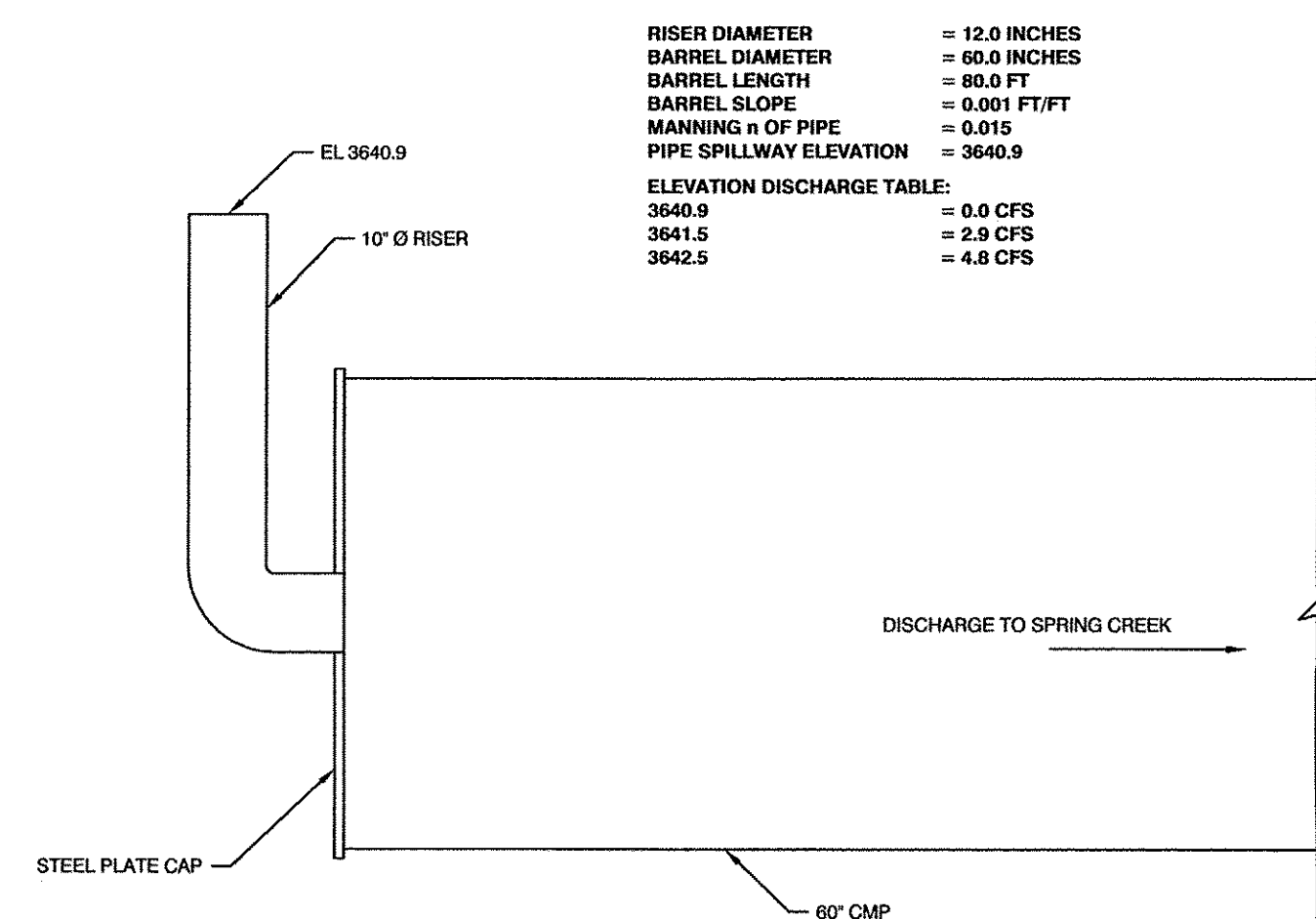
SEDIMENT CAPACITY CALCULATIONS

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)
236.2	0.020	4.72	4.76	2.86

NOTE: SEDIMENT YIELD COMPUTED FOR DISTURBED AREA ONLY.

- NOTES:
- THE DROP INLET STRUCTURE AS-BUILT IS NOT SIZED TO DISCHARGE THE PEAK FLOW FROM THE 25-YR, 24-HR PPT. EVENT AS REQUIRED BY APRM 28.4.659(10). THE IMPONDMENT CONTAINS 0.41 ACRE-FT EXCESS CAPACITY BEYOND THE TOTAL REQUIRED VOLUME FOR SEDIMENT STORAGE, PLUS THE 25-YR, 24-HR FLOOD VOLUME STORAGE. THEREFORE, THE POND WILL NOT DISCHARGE DURING A 25-YR, 24-HR FLOOD EVENT. FLOODING IN EXCESS OF THE 25-YR, 24-HR STORM WILL OVERFLOW INTO WATER STORAGE POND 2A AND WILL NOT DISCHARGE TO SPRING CREEK.
 - THE RUNOFF CURVE NUMBER IS THE AREA WEIGHTED AVERAGE.

DROP INLET DISCHARGE STRUCTURE DETAILS



DROP INLET CMP DISCHARGE STRUCTURE TYPICAL SECTION C-C'

NOT TO SCALE

AREA CAPACITY TABLE

ELEVATION (ft)	AREA (ac)	AVG. AREA (ac)	CAPACITY (ac-ft)		
			INCR.	ACCUM.	
3627.0	0.40	0.52	0.52	0.00	50% OF TOTAL SED STORAGE APPROX. 2.18 AC-FT
3628.0	0.64	0.73	0.73	0.52	
3629.0	0.81	0.88	0.88	1.25	
3630.0	0.94	0.99	0.99	2.13	
3631.0	1.03	1.07	1.07	3.12	TOTAL SED STORAGE 4.76 AC-FT
3632.0	1.11	1.14	1.07	4.19	
3632.5	1.16	1.18	0.59	4.76	
3633.0	1.20	1.25	1.25	5.35	
3634.0	1.29	1.34	1.34	6.60	
3635.0	1.39	1.44	1.44	7.94	
3636.0	1.49	1.55	1.55	9.38	
3637.0	1.60	1.67	1.67	10.93	
3638.0	1.73	1.79	1.79	12.60	
3639.0	1.85	1.91	1.91	14.39	
3640.0	1.96	2.01	1.91	16.30	
3640.9	2.06	2.01	1.81	18.11	

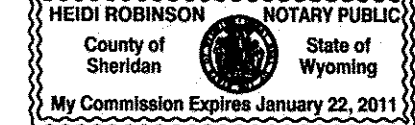
SUBSCRIBED AND SWORN TO BEFORE ME THIS

19 DAY OF December 2008

NOTARY PUBLIC Dale E. Brown

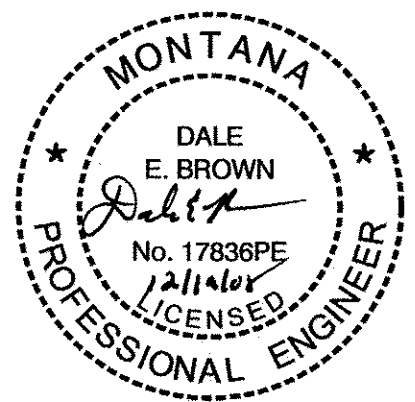
RESIDING IN Sheridan, Wyoming

MY COMMISSION EXPIRES January 22, 2011



CERTIFICATE OF ENGINEER

I, Dale E. Brown, hereby certify that this drawing was prepared by myself or by engineers under my direct supervision and that it correctly represents the existing facilities. The mapping was prepared based on survey data provided by the Spring Creek Mine and the as-built prepared by Bruce Nelson on 1/17/94.



DATE	REVISION	RIO TINTO ENERGY AMERICA		SPRING CREEK MINE	
BY				P.O. BOX 67, DECKER, MT. 59025	
				PHONE: (406) 757-2581	
				POND NO. 2	
				AS-BUILT DETAILS	
DESIGN	BN	DRAWN	DCJWWC	DATE	01/04/09
SCALE	AS SHOWN	CONTOUR INTERVAL	NA	FILE NUMBER	POND2 ASBUILT
				SHEET	1 OF 1