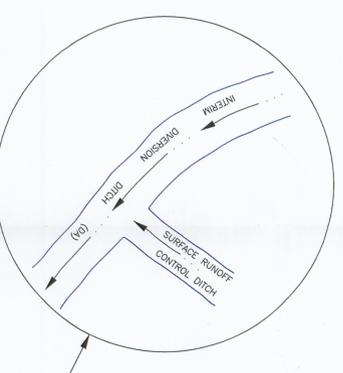
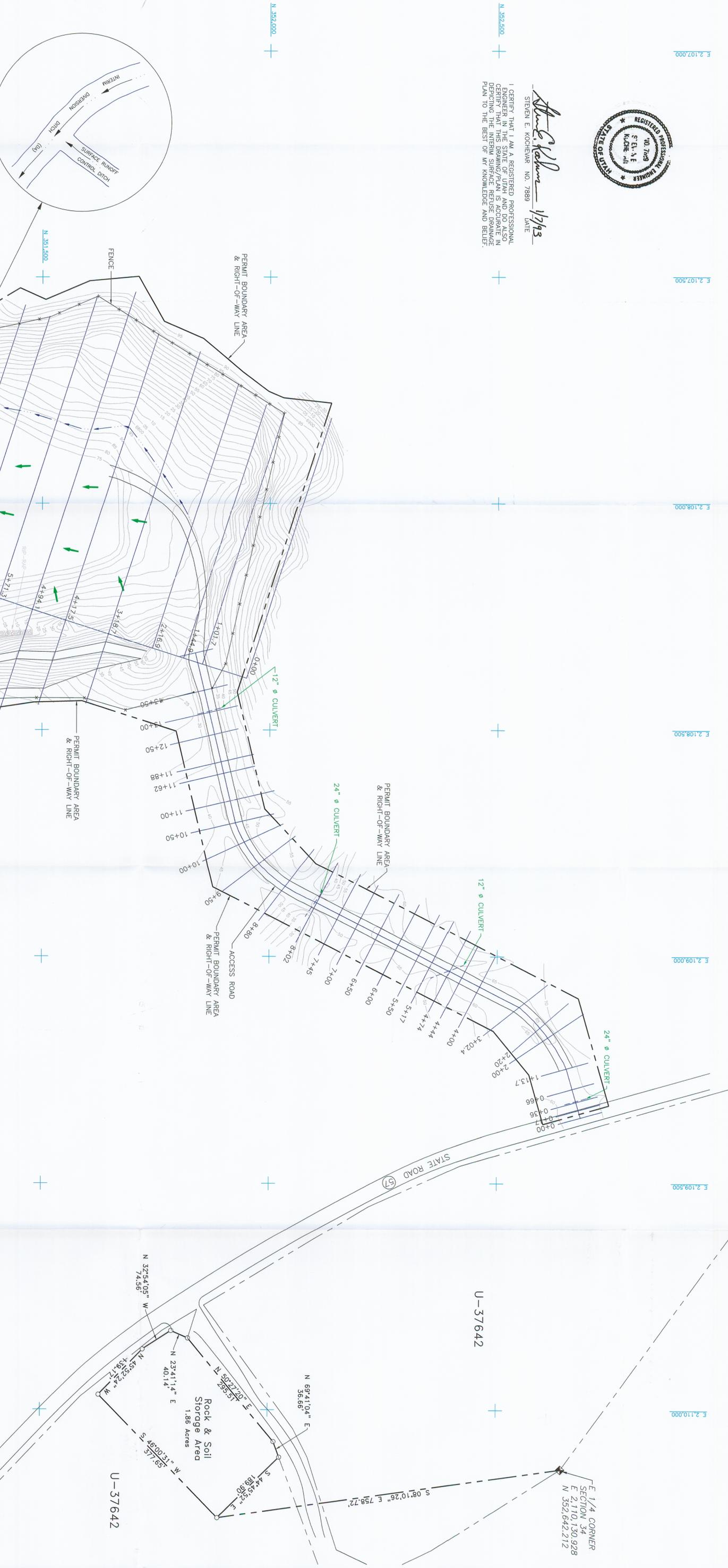




Steven E. Koehner 1/17/93
 STEVEN E. KOEHLER NO. 7889
 LATE

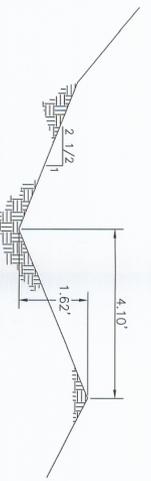
I CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH AND I DO SO DECLARE THAT THIS DRAWING/PLAN IS ACCURATE IN DEPENDING THE INTERIM SURFACE REFUSE DRAINAGE PLAN TO THE BEST OF MY KNOWLEDGE AND BELIEF.

E 2,107,000
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 E 2,109,000
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 E 2,110,000



NOTES:
 1. CROSS SECTION OF SURFACE RUNOFF CONTROL (SRC) DITCH WILL MATCH INTERIM DIVERSION DITCH (IDA). THE ELEVATION OF THE REFUSE PILE WILL VARY WITH THE ELEVATION OF THE REFUSE PILE.
 2. SURFACE RUNOFF CONTROL DITCH UTILIZED ONLY DURING INITIAL REFUSE PLACEMENT.
 3. DURING CONSTRUCTION OF URS THE SURFACE RUNOFF WILL FLOW IN A SOUTHWESTERLY DIRECTION.

SURFACE RUNOFF CONTROL DETAIL
 NOT TO SCALE



INTERIM DIVERSION DITCH
 CROSS SECTION
 SCALE: 1"=2'-0"
 CHANNEL SLOPE 2%
 FLOW RATE 18.9 cfs
 FLOW DEPTH 1.32 ft.
 VELOCITY 4.34 fps

DATE	REVISIONS	BY	CHK
4-11-12	REVISED TO REFLECT PHASE 3 BOND RELEASE OF THE COTTONWOOD WASTE ROCK SITE	KLL	
7-26-02	REVISED RIGHT-OF-WAY PERMIT BOUNDARY	KLL	
1-9-02	ADDED PERMIT BOUNDARY AREA AND RIGHT-OF-WAY LINES AND TEXT, AND NOTES 1 AND 2 TO SURFACE RUNOFF CONTROL DETAIL	KLL	
12-30-92	REVISED TO REFLECT AS-BUILT CONDITIONS AS OF 12-21-92	KLL	
8-21-92	ADDED SRC AND DA DITCH DETAIL AND NOTES	KLL	

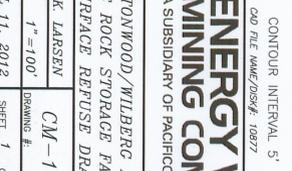
4-114

CONTOUR INTERVAL 5'
 CAD FILE NAME/DATE: 10827

ENERGY WEST MINING COMPANY
 A SUBSIDIARY OF PACIFICORP

COTTONWOOD/WILBERG MINE
 WASTE ROCK STORAGE FACILITY
 INTERIM SURFACE REFUSE DRAINAGE PLAN

DESIGN BY: K. LARSEN
 SCALE: 1"=100'
 DRAWING #: CM-10877-WB
 DATE: APRIL 11, 2012
 SHEET 1 OF 1
 REV. _____



RECEIVED
 APR 11 2012
 DIV OF PERMITS