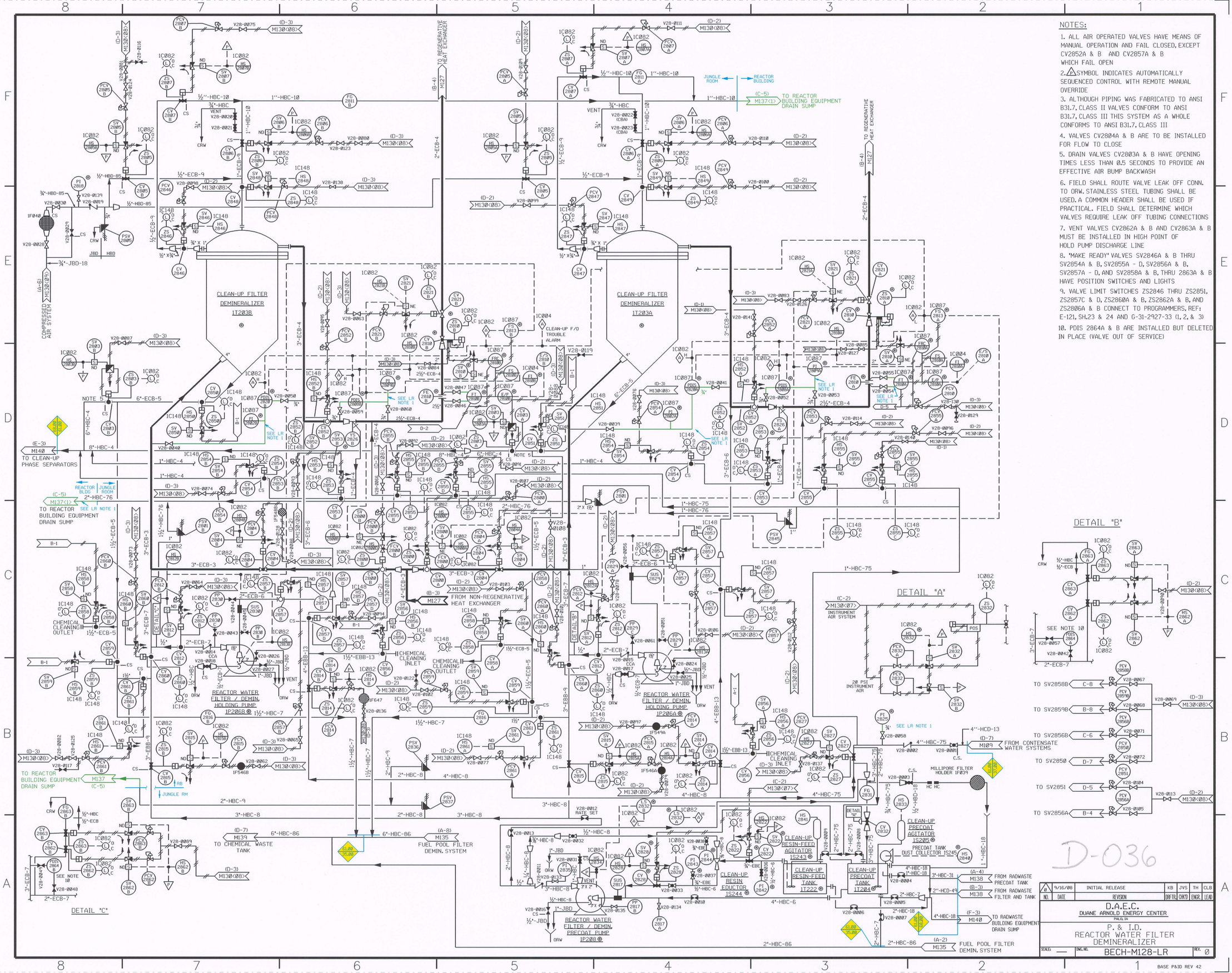

NOTES:

1. ALL AIR OPERATED VALVES HAVE MEANS OF MANUAL OPERATION AND FAIL CLOSED, EXCEPT CV2852A & B AND CV2857A & B WHICH FAIL OPEN
2. △A SYMBOL INDICATES AUTOMATICALLY SEQUENCED CONTROL WITH REMOTE MANUAL OVERRIDE
3. ALTHOUGH PIPING WAS FABRICATED TO ANSI B31.7, CLASS II VALVES CONFORM TO ANSI B31.7, CLASS III THIS SYSTEM AS A WHOLE CONFORMS TO ANSI B31.7, CLASS III
4. VALVES CV2804A & B ARE TO BE INSTALLED FOR FLOW TO CLOSE
5. DRAIN VALVES CV2803A & B HAVE OPENING TIMES LESS THAN 0.5 SECONDS TO PROVIDE AN EFFECTIVE AIR BUMP BACKWASH
6. FIELD SHALL ROUTE VALVE LEAK OFF CONN. TO ORW. STAINLESS STEEL TUBING SHALL BE USED. A COMMON HEADER SHALL BE USED IF PRACTICAL. FIELD SHALL DETERMINE WHICH VALVES REQUIRE LEAK OFF TUBING CONNECTIONS
7. VENT VALVES CV2862A & B AND CV2863A & B MUST BE INSTALLED IN HIGH POINT OF HOLD PUMP DISCHARGE LINE
8. 'MAKE READY' VALVES SV2846A & B THRU SV2854A & B, SV2855A - D, SV2856A & B, SV2857A - D, AND SV2858A & B, THRU 2863A & B HAVE POSITION SWITCHES AND LIGHTS
9. VALVE LIMIT SWITCHES ZS2846 THRU ZS2851, ZS2857C & D, ZS2860A & B, ZS2862A & B, AND ZS2806A & B CONNECT TO PROGRAMMERS, REF: E-121, SH.23 & 24 AND G-31-2927-33 (1, 2, & 3)
10. PDIS 2864A & B ARE INSTALLED BUT DELETED IN PLACE (VALVE OUT OF SERVICE)

LR NOTES:

1. PIPING LEADING TO IN-SCOPE COMPONENTS IN THE REACTOR BUILDING ORIGINATING IN THE JUNGLE ROOM IS IN SCOPE FOR CRITERION (a)(2) OUTSIDE OF THE JUNGLE ROOM. IT MAY BE LOCATED SUCH THAT IT COULD IMPACT THE ABILITY OF SAFETY RELATED COMPONENTS TO PERFORM THEIR INTENDED FUNCTION THROUGH SPRAYING, LEAKING, FLOODING, JET IMPINGEMENT, PIPE WHIP OR SEISMIC II/I. THIS APPLIES TO:
   - HBC-9, 10 & 76 PIPING LEADING TO REACTOR BUILDING EQUIPMENT DRAIN SUMPS.
   - PIPING DOWNSTREAM OF V28-0040 AND V28-0050 LEADING TO P1208B AND PDIS2820B.
   - PIPING DOWNSTREAM OF V28-0059 AND V28-0060 LEADING TO P1208B AND PDIS2808B.
   - PIPING DOWNSTREAM OF V28-0046 AND V28-0047 LEADING TO FT2818B.
   - PIPING DOWNSTREAM OF V28-0039 AND V28-0041 LEADING TO P1208A AND PDIS2820A.
   - PIPING DOWNSTREAM OF V28-0052 AND V28-0053 LEADING TO P1208A AND PDIS2808A.
   - PIPING DOWNSTREAM OF V28-0054 AND V28-0055 LEADING TO FT2818A.
   - PIPING DOWNSTREAM OF V28-0058 LEADING TO PI2825.
2. ALL EXPOSED DRAIN PIPING AND FUNNELS ARE IN SCOPE FOR LICENSE RENEWAL.

LR LEGEND:

- COMPONENTS IN SCOPE PER 10CFR54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 54.21
- COMPONENTS NOT SUBJECT TO AMR
- COMPONENTS IN SCOPE PER 10CFR54.4(a)(2) AND SUBJECT TO AMR PER 54.21
- SYSTEM BOUNDARY INTERFACE

35.00 FUEL POOL COOLING AND CLEAN-UP
37.00 CONDENSATE AND DEMIN WATER
61.00 REACTOR WATER CLEANUP
68.00 SOLID RADWASTE SYSTEM

NO.	DATE	REVISION	DRFTR	CHK'D	ENGR.	LEAD
0	9/16/88	INITIAL RELEASE	KB	JVS	TH	CLB

D.A.E.C.
DUANE ARNOLD ENERGY CENTER
PALO, IA

P. & I.D.
REACTOR WATER FILTER DEMINERALIZER

SCALES: —— DWG. NO. BECH-M128-LR REV. 0

BASE P&ID REV 42