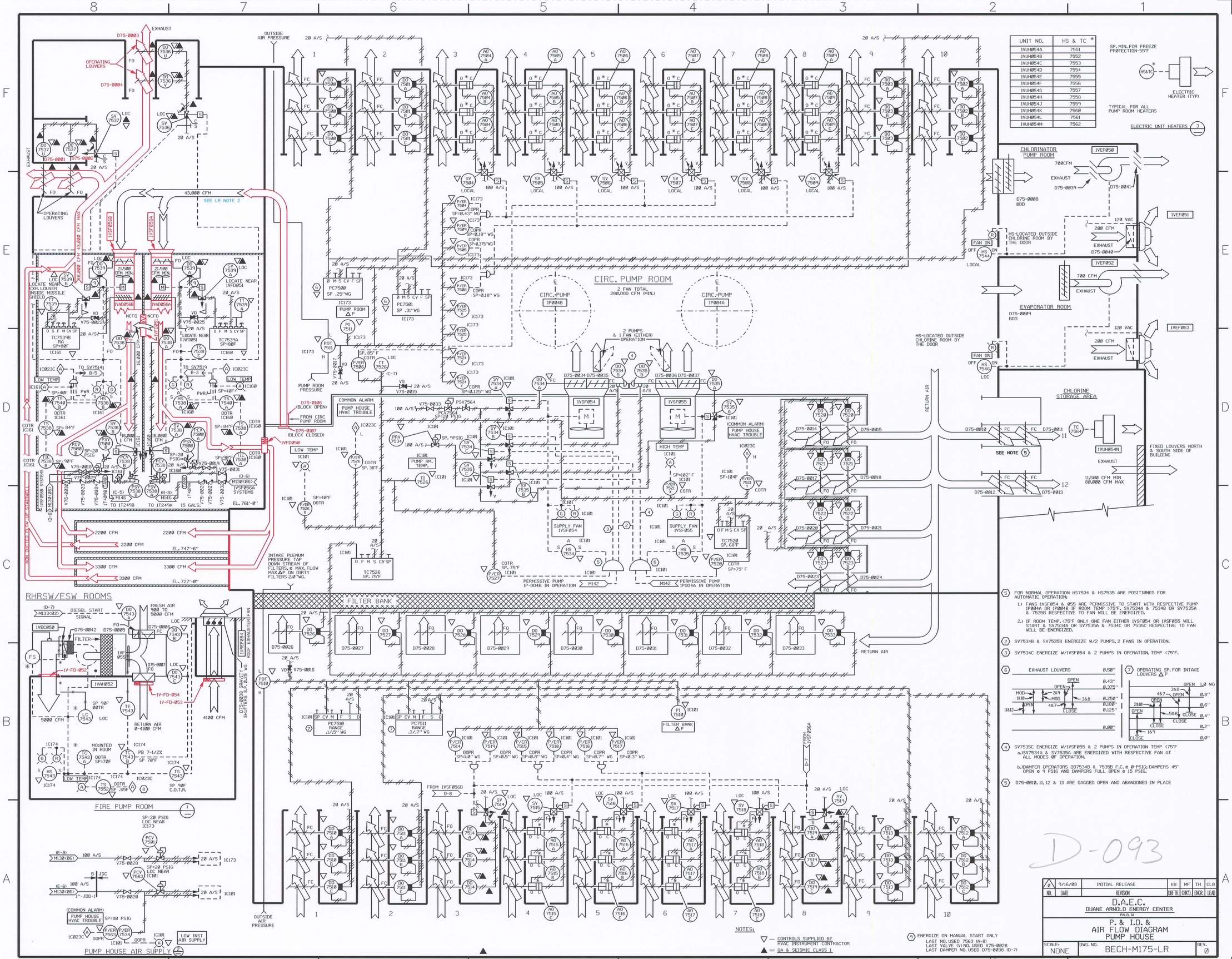

UNIT NO.	HS & TC *
1VUH054A	7551
1VUH054B	7552
1VUH054C	7553
1VUH054D	7554
1VUH054E	7555
1VUH054F	7556
1VUH054G	7557
1VUH054H	7558
1VUH054J	7559
1VUH054K	7560
1VUH054L	7561
1VUH054M	7562

(5) FOR NORMAL OPERATION HS7534 & HS7535 ARE POSITIONED FOR AUTOMATIC OPERATION:

1.) FANS 1VSF054 & 055 ARE PERMISSIVE TO START WITH RESPECTIVE PUMP 1P004A OR 1P004B IF ROOM TEMP >75°F, SV7534A & 7534B OR SV7535A & 7535B RESPECTIVE TO FAN WILL BE ENERGIZED.

2.) IF ROOM TEMP. <75°F ONLY ONE FAN EITHER 1VSF054 OR 1VSF055 WILL START & SV7534A OR SV7535A & 7534C OR 7535C RESPECTIVE TO FAN WILL BE ENERGIZED.

(2) SV7534B & SV7535B ENERGIZE W/2 PUMPS, 2 FANS IN OPERATION.

(3) SV7534C ENERGIZE W/1VSF054 & 2 PUMPS IN OPERATION, TEMP <75°F.

(6) EXHAUST LOUVERS 0.50"

OPEN	0.43"
OPEN	0.375"
3&8	0.250"
4&7	0.180"
CLOSE	0.125"
	0.00"

(7) OPERATING SP. FOR INTAKE LOUVERS ΔP

OPEN	1.0 WG
3&8 OPEN	0.8"
4&7 OPEN	0.6"
5&6 CLOSE	0.4"
CLOSE	0.2"
1&9 CLOSE	0.0"

(4) SV7535C ENERGIZE W/1VSF055 & 2 PUMPS IN OPERATION TEMP <75°F

a.) SV7534A & SV7535A ARE ENERGIZED WITH RESPECTIVE FAN AT ALL MODES OF OPERATION.

b.) DAMPER OPERATORS DO7534B & 7535B F.C. @ 0-PSIG DAMPERS 45° OPEN @ 9 PSIG AND DAMPERS FULL OPEN @ 15 PSIG.

(5) D75-0010, 11, 12 & 13 ARE GAGGED OPEN AND ABANDONED IN PLACE

NOTES:

▽ — CONTROLS SUPPLIED BY HVAC INSTRUMENT CONTRACTOR

▲ = QA & SEISMIC CLASS 1

(9) ENERGIZE ON MANUAL START ONLY
LAST NO. USED 7563 (A-8)
LAST VALVE (V) NO. USED V75-0028
LAST DAMPER NO. USED D75-0038 (D-7)

LR NOTES:

1. THE FIRE DAMPERS SUBJECT TO AMR ON THIS P&ID ARE EVALUATED IN 13.01, FIRE PROTECTION.
2. THE SUCTION PATHS TO 1VSF056A AND 1VSF056B ARE A DEPICTION OF AIR FLOW ONLY. THERE IS NO DUCTING ASSOCIATED WITH THIS AIR FLOW.

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

10.03 PLANT VENTILATION
13.01 FIRE PROTECTION

NO.	DATE	REVISION	DR'FR.	CHK'D.	ENGR.	LEAD
0	9/16/00	INITIAL RELEASE	KB	MF	TH	CLB

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

P. & I.D. &
AIR FLOW DIAGRAM
PUMP HOUSE

SCALE: NONE | DWG. NO. BECH-M175-LR | REV. 0

BASE P&ID REV 38