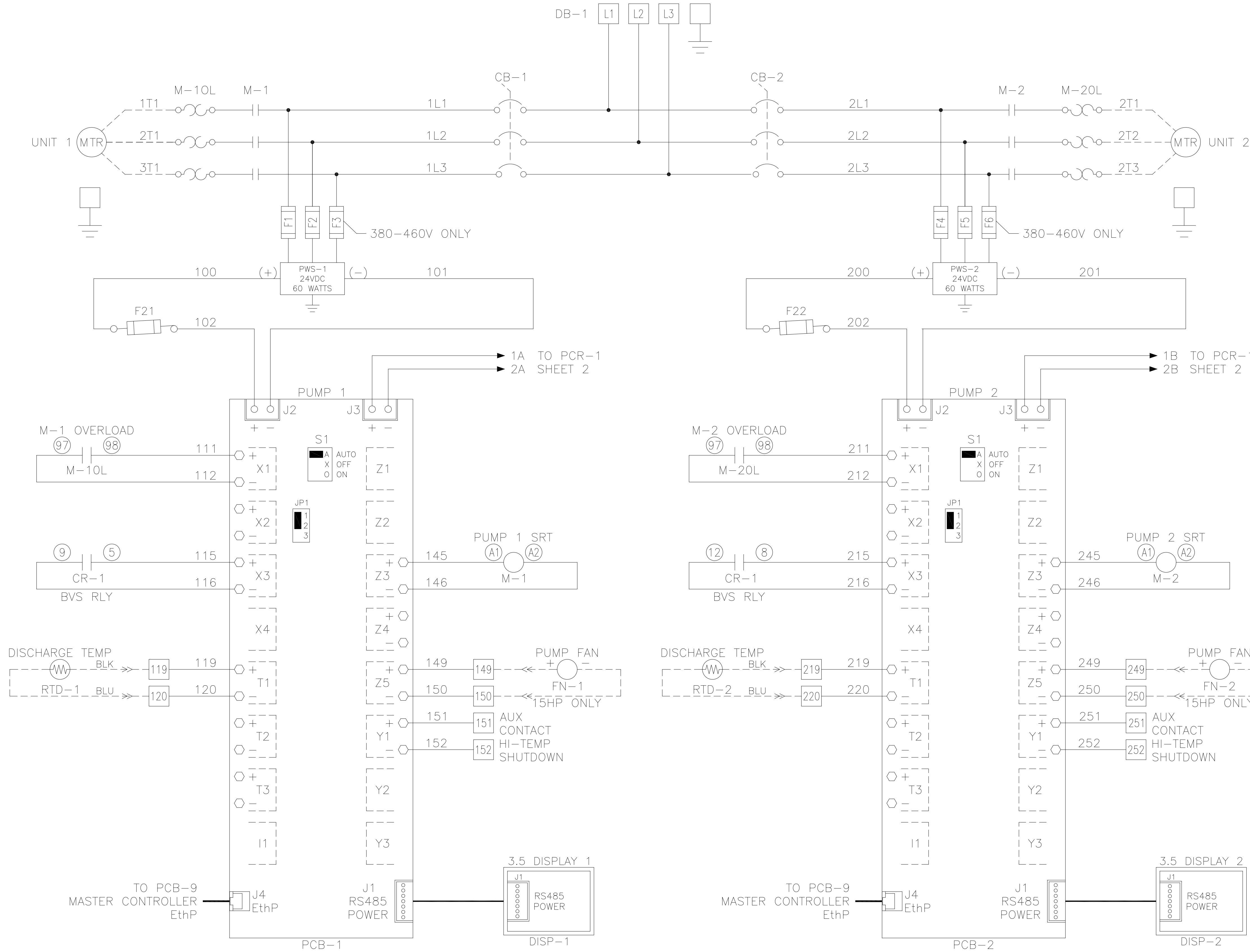


Notes:

1. MAIN DISCONNECT PROVIDED BY OTHERS
2. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
3. - - - - - INDICATES FIELD WIRING OUTSIDE OF BOX.
4. FN-1 & FN-2 FANS ON 15HP UNITS ONLY.
5. AUXILIARY CONTACTS LIST ON SHEET 2

208-575V
3 ϕ
50/60 HZ



DUPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380 V	415 V	460 V	575 V
2 HP	17.0 AMPS	16.2 AMPS	9.0 AMPS	8.4 AMPS	7.6 AMPS	6.2 AMPS
3 HP	21.8 AMPS	20.6 AMPS	11.8 AMPS	10.8 AMPS	9.8 AMPS	8.0 AMPS
4 HP	29.4 AMPS	25.8 AMPS	14.8 AMPS	13.6 AMPS	12.4 AMPS	10.0 AMPS
5.4 HP	37.0 AMPS	32.2 AMPS	18.6 AMPS	17.2 AMPS	15.6 AMPS	12.6 AMPS
6.4 HP	42.6 AMPS	37.4 AMPS	22.0 AMPS	20.2 AMPS	18.2 AMPS	14.6 AMPS
7.5 HP	53.4 AMPS	45.8 AMPS	27.0 AMPS	24.8 AMPS	22.4 AMPS	18.0 AMPS
8.7 HP	60.2 AMPS	53.0 AMPS	31.4 AMPS	28.8 AMPS	26.0 AMPS	21.0 AMPS
15 HP	86.0 AMPS	72.2 AMPS	43.0 AMPS	39.4 AMPS	35.6 AMPS	28.6 AMPS

INDIVIDUAL FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380 V	415 V	460 V	575 V
2 HP	7.4 AMPS	7.0 AMPS	4.2 AMPS	3.9 AMPS	3.5 AMPS	2.8 AMPS
3 HP	9.8 AMPS	9.2 AMPS	5.6 AMPS	5.1 AMPS	4.6 AMPS	3.7 AMPS
4 HP	13.6 AMPS	11.8 AMPS	7.1 AMPS	6.5 AMPS	5.9 AMPS	4.7 AMPS
5.4 HP	17.4 AMPS	15.0 AMPS	9.0 AMPS	8.3 AMPS	7.5 AMPS	6.0 AMPS
6.4 HP	20.2 AMPS	17.6 AMPS	10.7 AMPS	9.8 AMPS	8.8 AMPS	7.0 AMPS
7.5 HP	25.6 AMPS	21.8 AMPS	13.2 AMPS	12.1 AMPS	10.9 AMPS	8.7 AMPS
8.7 HP	29.0 AMPS	25.4 AMPS	15.4 AMPS	14.1 AMPS	12.7 AMPS	10.2 AMPS
15 HP	41.9 AMPS	35.0 AMPS	21.2 AMPS	19.4 AMPS	17.5 AMPS	14.0 AMPS

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

FUSES	208 V	230 V	380 V	415 V	460 V	575 V
F1/F2/F4/F5	6 AMP	6 AMP	6 AMP	6 AMP	6 AMP	6 AMP
F3/F6	---	---	6 AMP	6 AMP	6 AMP	6 AMP
F21/F22	2.5 AMP	2.5 AMP	2.5 AMP	2.5 AMP	2.5 AMP	2.5 AMP
F33	1.0 AMP	1.0 AMP	1.0 AMP	1.0 AMP	1.0 AMP	1.0 AMP

F1-F6 ARE LITTELFUSE KLDL 600V TYPE
F21/F22/F33 ARE LITTELFUSE 2AG 250V TYPE

DEFAULT VACUUM SETTINGS

ALTITUDE	PUMP SEQUENCE	"HgV
0'-1000'	LEAD CUT-OFF	22"
1001'-2000'	LEAD CUT-OFF	21"
2001'-3000'	LEAD CUT-OFF	20"
3001'-4000'	LEAD CUT-OFF	19"
>4000'	CONSULT FACTORY	
ALL	LAG CUT-ON	16"

BACKUP VACUUM SWITCH

BVS-1	CUT-ON	15"
-------	--------	-----

RELIEF VALVE SETTINGS ("HgV)

ALTITUDE	2HP-5.4HP	6.4-7.5HP	8.7HP	15HP	O2 ASSURED PUMPS			
0'-1000'	N/A	27	25	23	N/A	27	25	21
1001'-2000'	N/A	26	24	22	N/A	26	24	20
2001'-3000'	N/A	25	23	21	N/A	25	23	19
3001'-4000'	N/A	24	22	20	N/A	24	22	18
>4000'	CONSULT FACTORY							

AUTO OPERATION:

THE MASTER PCB WILL CONTROL THE ADAPTIVE FUNCTIONALITY OF THE SYSTEM. THE ADAPTIVE CONTROL CAUSES THE VACUUM PUMPS TO START BASED ON THE VACUUM LEVEL. THE SIGNAL TO STOP IS BASED ON THE LENGTH OF TIME THE VACUUM SYSTEM WAS NOT RUNNING. THE MASTER PCB DETERMINES THE MINIMUM RUN TIME OF A PUMP ONCE IT HAS STOPPED. IF THE VACUUM SYSTEM IS STOPPED FOR A LONG PERIOD OF TIME, THE MINIMUM RUN TIME AFTER A RESTART WILL BE SHORT. IF THE VACUUM SYSTEM IS NOT RUNNING FOR A SHORT PERIOD OF TIME, THE MINIMUM RUN TIME WILL BE LONGER. SEE O&M MANUAL FOR SPECIFIC VARIATIONS. IF DURING OPERATION, THE SECOND VACUUM PUMP IS REQUIRED TO TURN ON, THE MASTER CONTROLLER WILL SET A LAG ALARM CONDITION.

PUMP PCB S1 POSITION:

POSITION (A) - AUTO (DEFAULT):
THE PUMP WILL OPERATE NORMALLY AS DESCRIBED ABOVE IN "AUTO OPERATION".
POSITION (X) - OFF:
THE PUMP IS DISABLED FROM RUNNING.
POSITION (O) - MANUAL:
THE PUMP WILL RUN CONTINUOUSLY.

PCB FAULT:

IF A PUMP PCB ETHERNET FAULT OR A TRANSDUCER FAULT OCCURS, THE PUMP PCB WILL AUTOMATICALLY SWITCH TO EMERGENCY MANUAL MODE. VACUUM PUMPS WILL START WHEN BVS-1 (BACKUP VACUUM SWITCH) CLOSSES AND STOP WHEN THE RUN TIMER EXPIRES.

PUMP PCB JUMPER/SWT SETTINGS

JPR/SWT	POSITION
JP1	1-2
S1	A (AUTO)

Revised: JAH	Date: 04/28/10	Drawn: JAH	Date: 01/20/10
		This drawing and the information contained thereon remain the property of BeaconMedics and may not be used for other than the purpose for which it is loaned without the expressed written permission from BeaconMedics Engineering.	
Description: DWG WIRING CONTROL DX CLAW 2-8.7 & 15HP 208-575/3/50-60		Part Number: 4107 8517 24	
DN: USN100203		Rev: 02	
Sheet 1 of 2		DO NOT SCALE THIS DOCUMENT	

Notes:

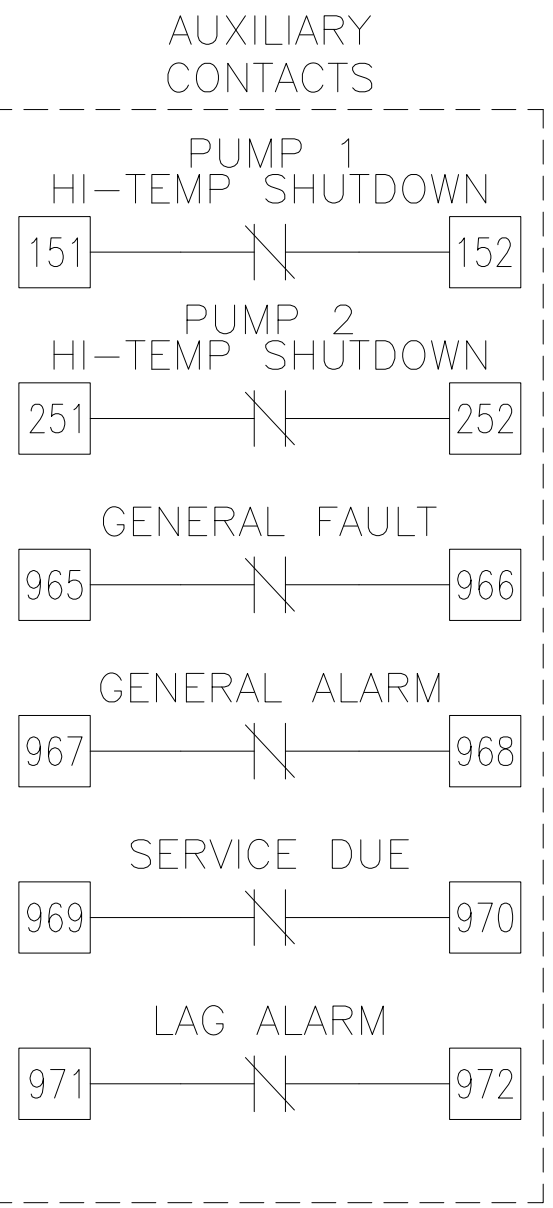
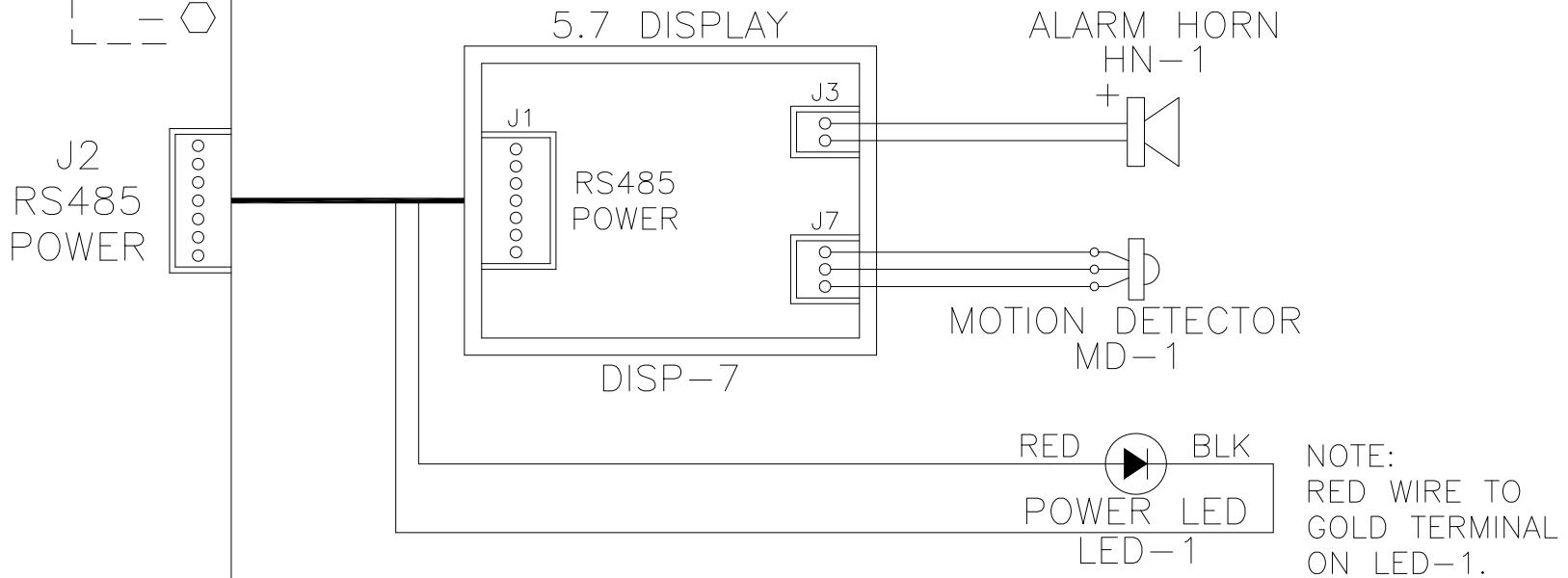
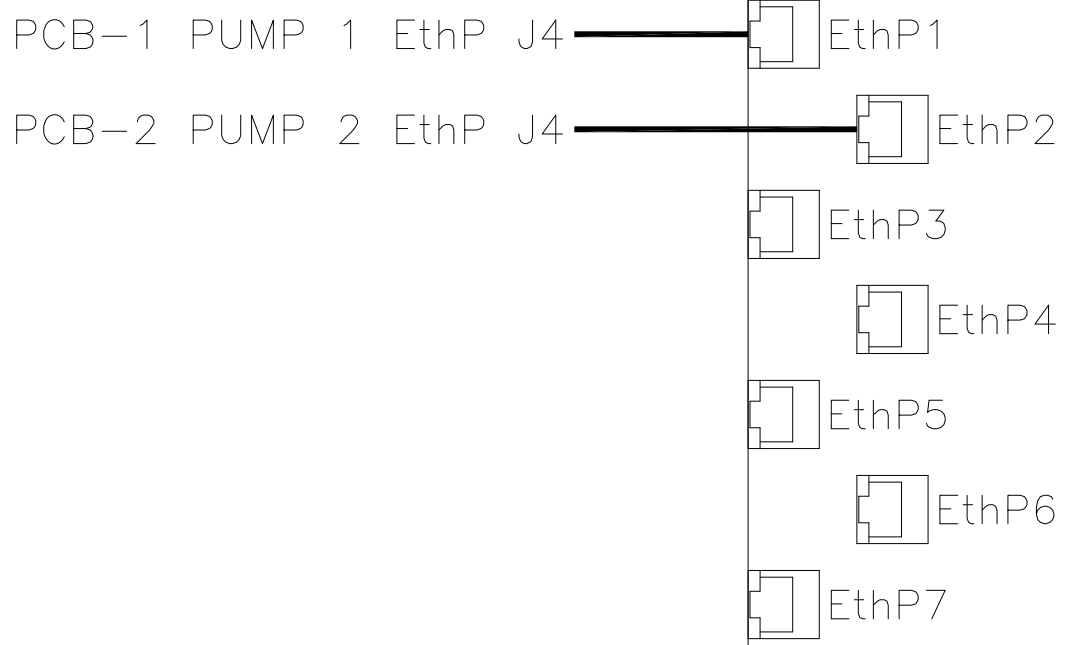
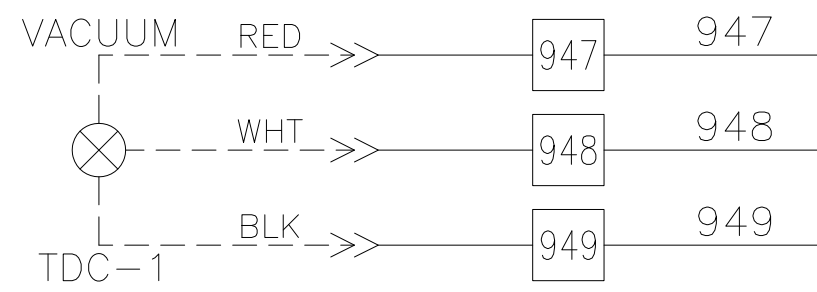
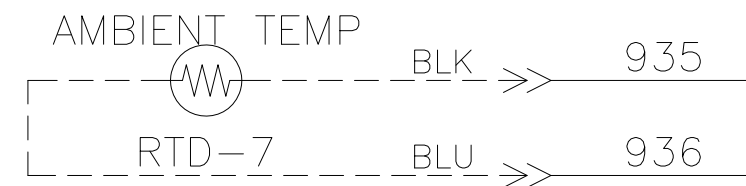
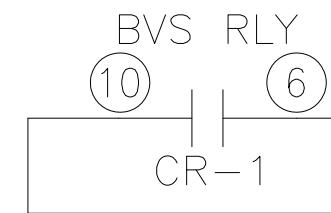
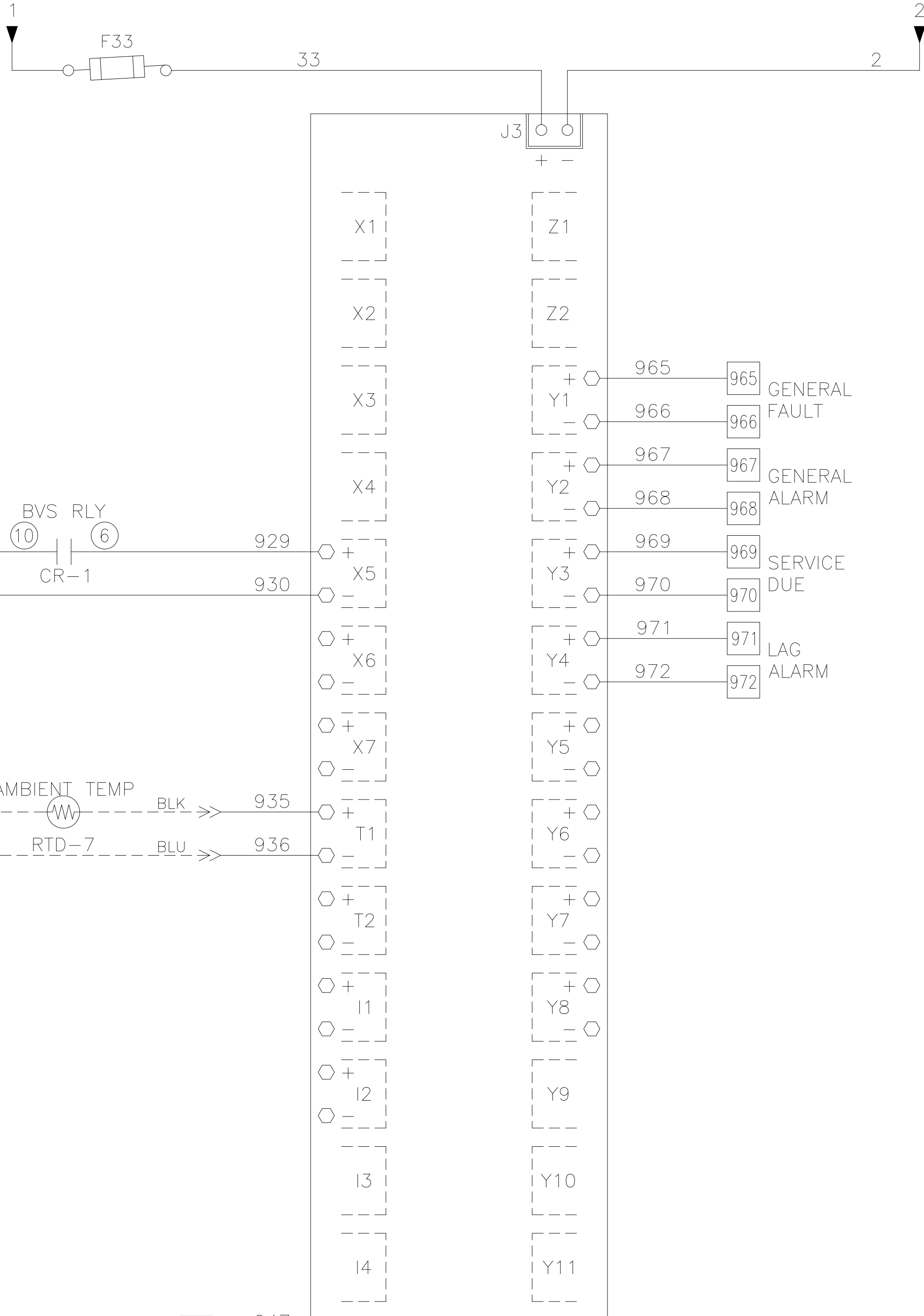
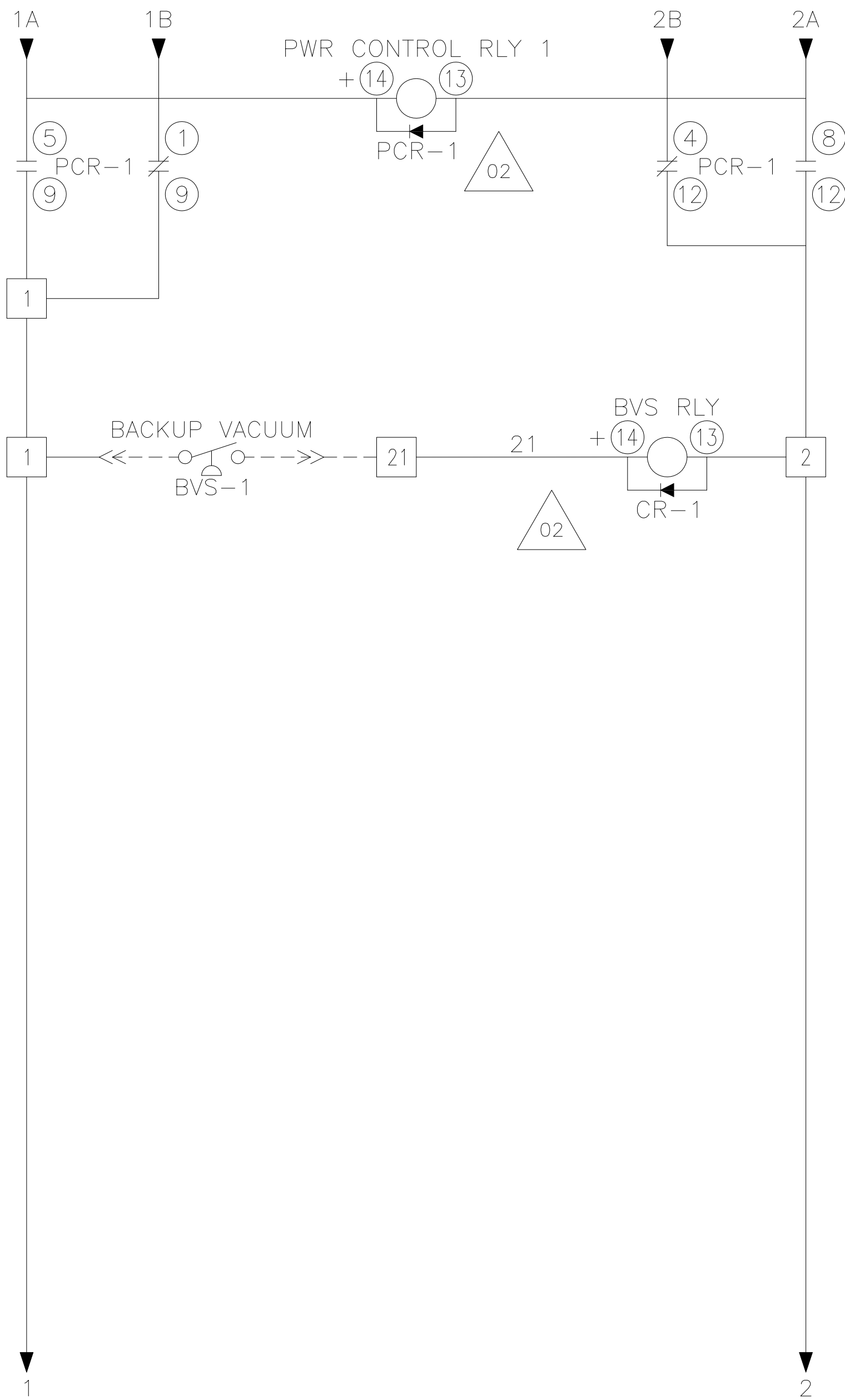
1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.

D

C

B

A



NOTE:
AUXILIARY CONTACTS
151-152, 251-252, &
965-972 ARE "CLASS 1
CONTROL CIRCUITS. USE
CLASS 1 CONDUCTORS."

AUX CONTACTS ARE RATED
0.7A_{dc}/0.7A_{rms} @ 24V
MAX. UNLESS OTHERWISE
NOTED.

AUX CONTACTS CLOSED
DURING NORMAL
OPERATION.

D

C

B

A

Revised: JAH	Date: 04/28/10	Drawn: JAH	Date: 01/20/10
Description: DWG WIRING CONTROL DX CLAW 2-8.7 & 15HP 208-575/3/50-60		Part Number: 4107 8517 24 DN: USN100203 Rev: 02 Sheet 2 of 2 DO NOT SCALE THIS DOCUMENT	