

PARSON & SANDERSON, INC.

FIVE PUMP  
CONTROL PANEL  
FILTER TRANSFER PUMPS  
(FTP)

PARSON & SANDERSON, INC.  
P.O. BOX 958  
METAIRIE, LA 70004  
(504) 733-1330 Fax (504) 736-9348

CP-1409

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>6</u>	
HP	<u>2 (20) 3 (50) 1(3)</u>	
FLA	<u>27/65 / 5.6</u>	
TYPE OF PUMP	<u>Vertical Turbine, Sub</u>	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>S.S.</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>TRANSDUCER</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE		

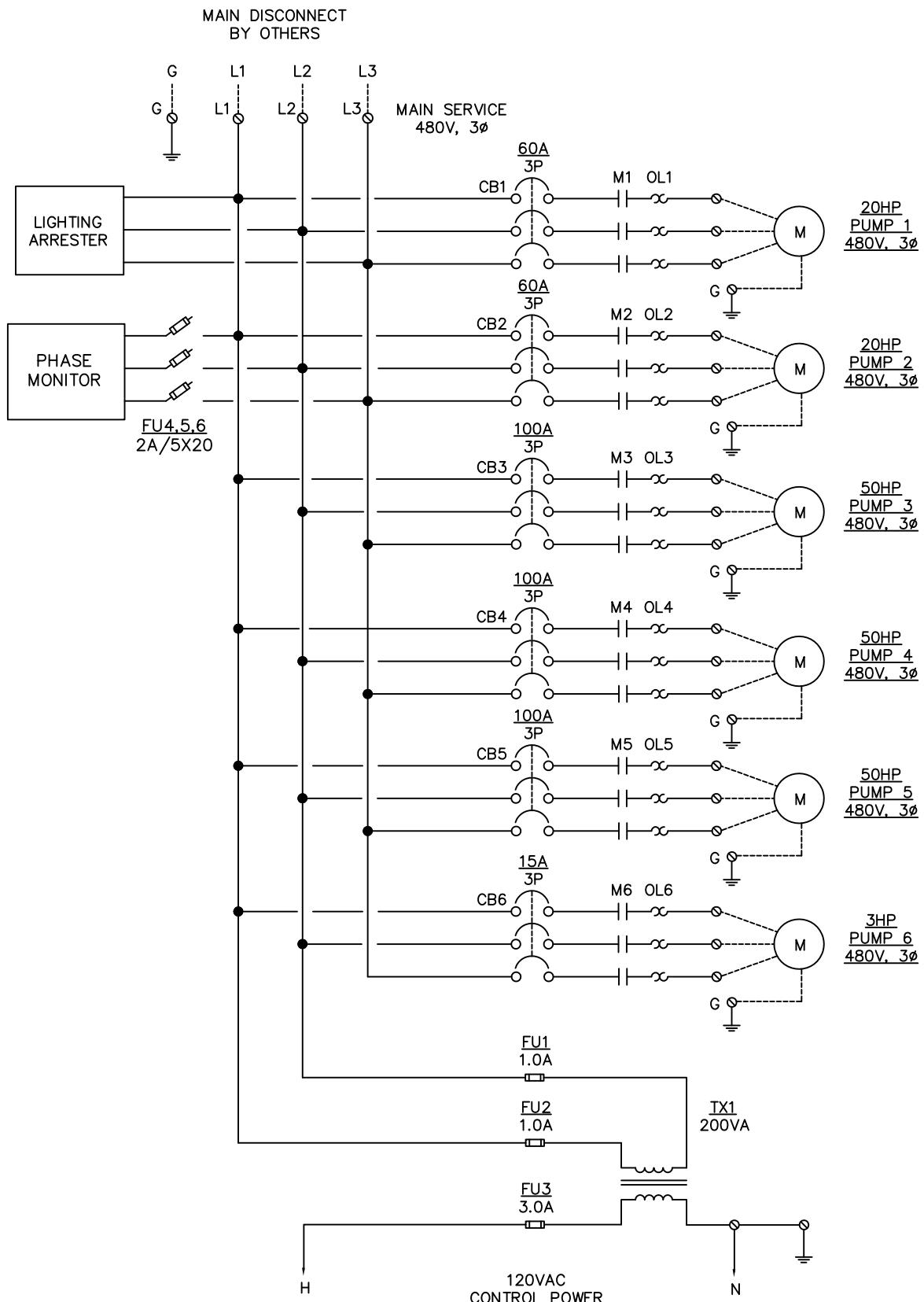
OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN		(Self-Primer, Submersible)
ALARM HORN	<u>X</u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	<u>X</u>	
ELAPSED TIME METER	<u>X</u>	
PHASE MONITOR	<u>X</u>	
NEMA RATED STARTERS	<u>X</u>	
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

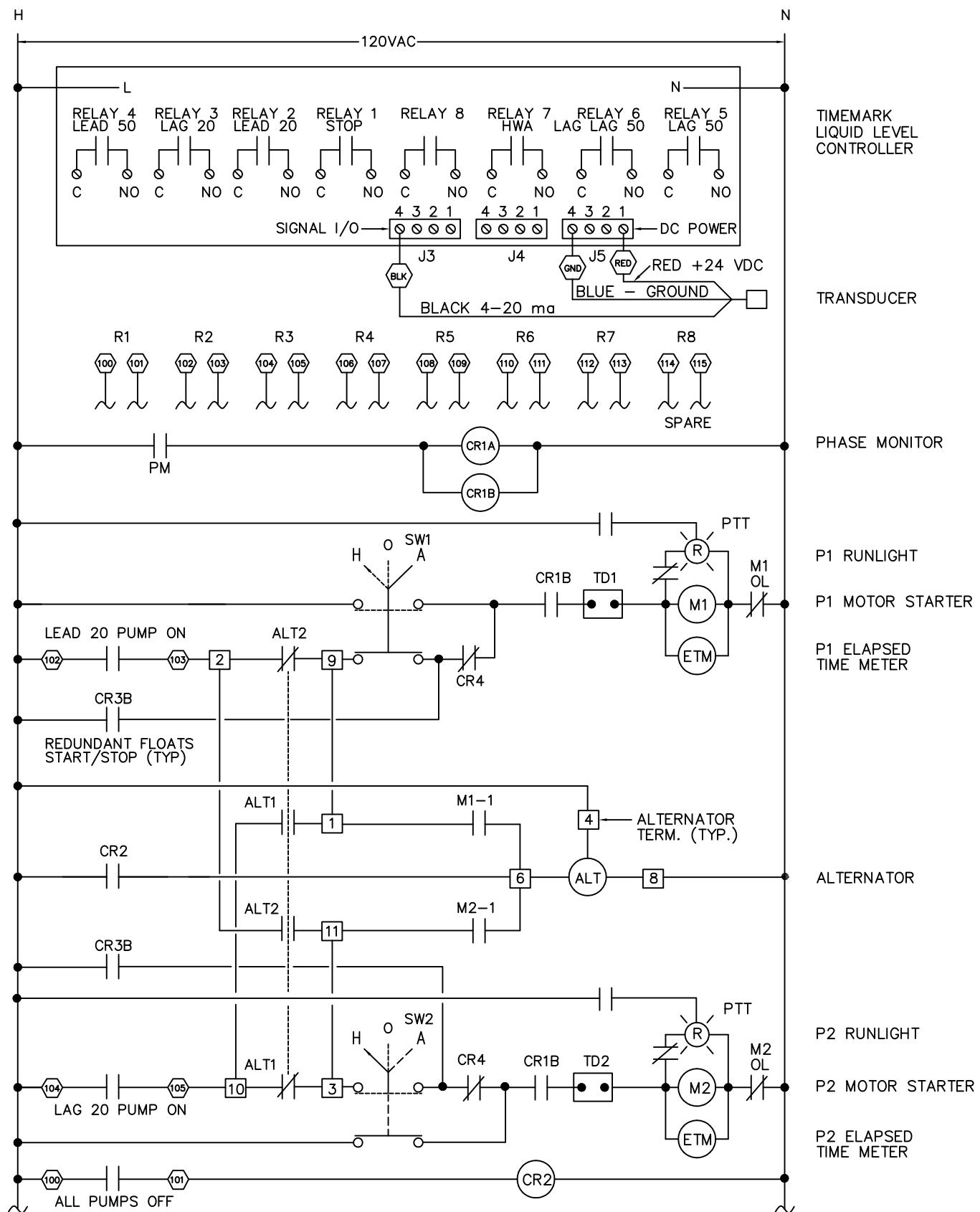
SOLD TO: Parson & Sanderson  
TAG : Sulphur WWTP  
FTP

SHIP TO: Sulphur WWTP

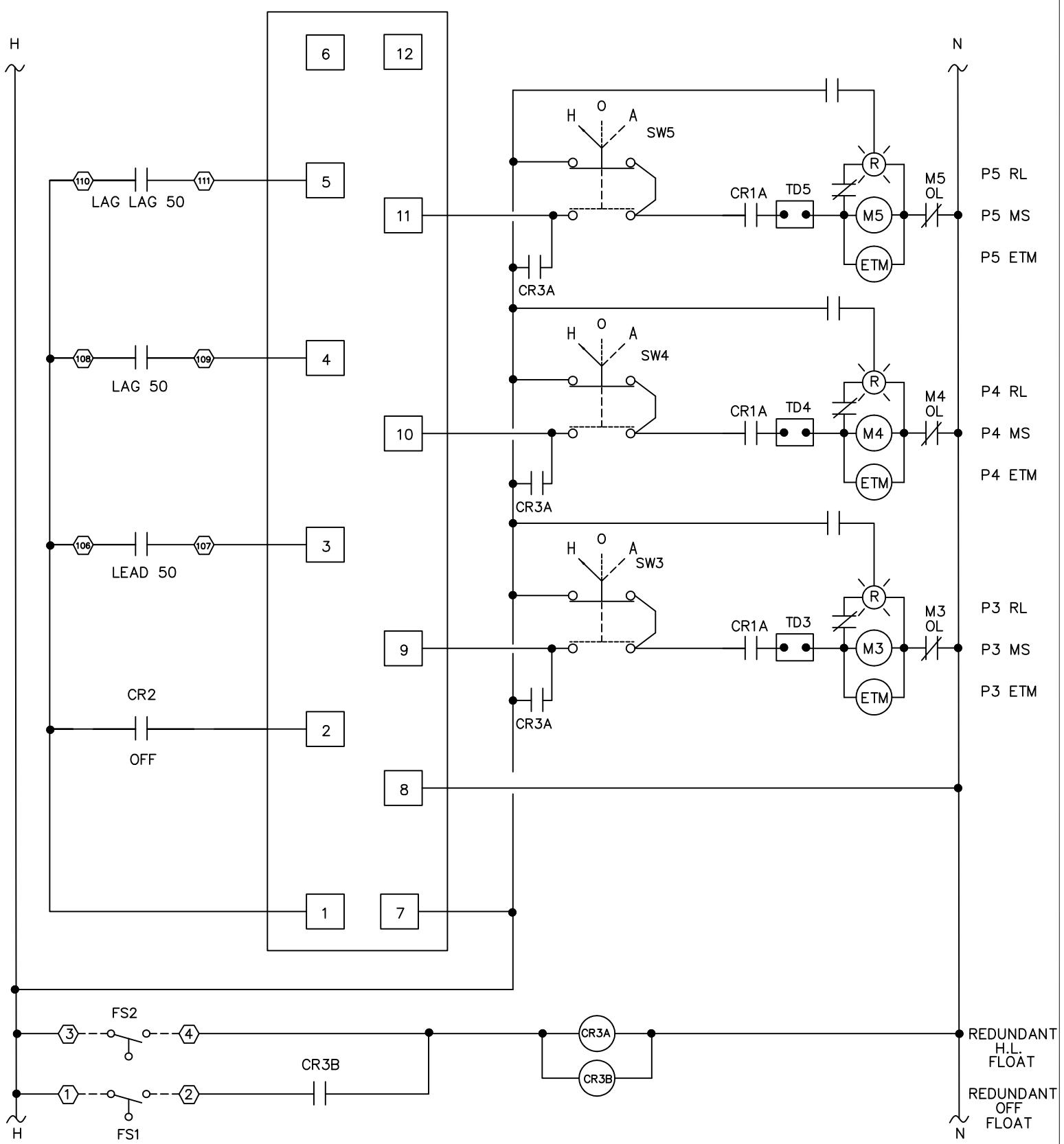
Drawing Title	PANEL DESCRIPTION	ADD PUMP 6						DATE BY
		REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	
S/N	Sales Engineer	Application Engineer	DRAWN	BY CTR	APPROVED			
DATE 5/28/02	Project Title  FIVE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348						PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1409 SHEET NUMBER 1



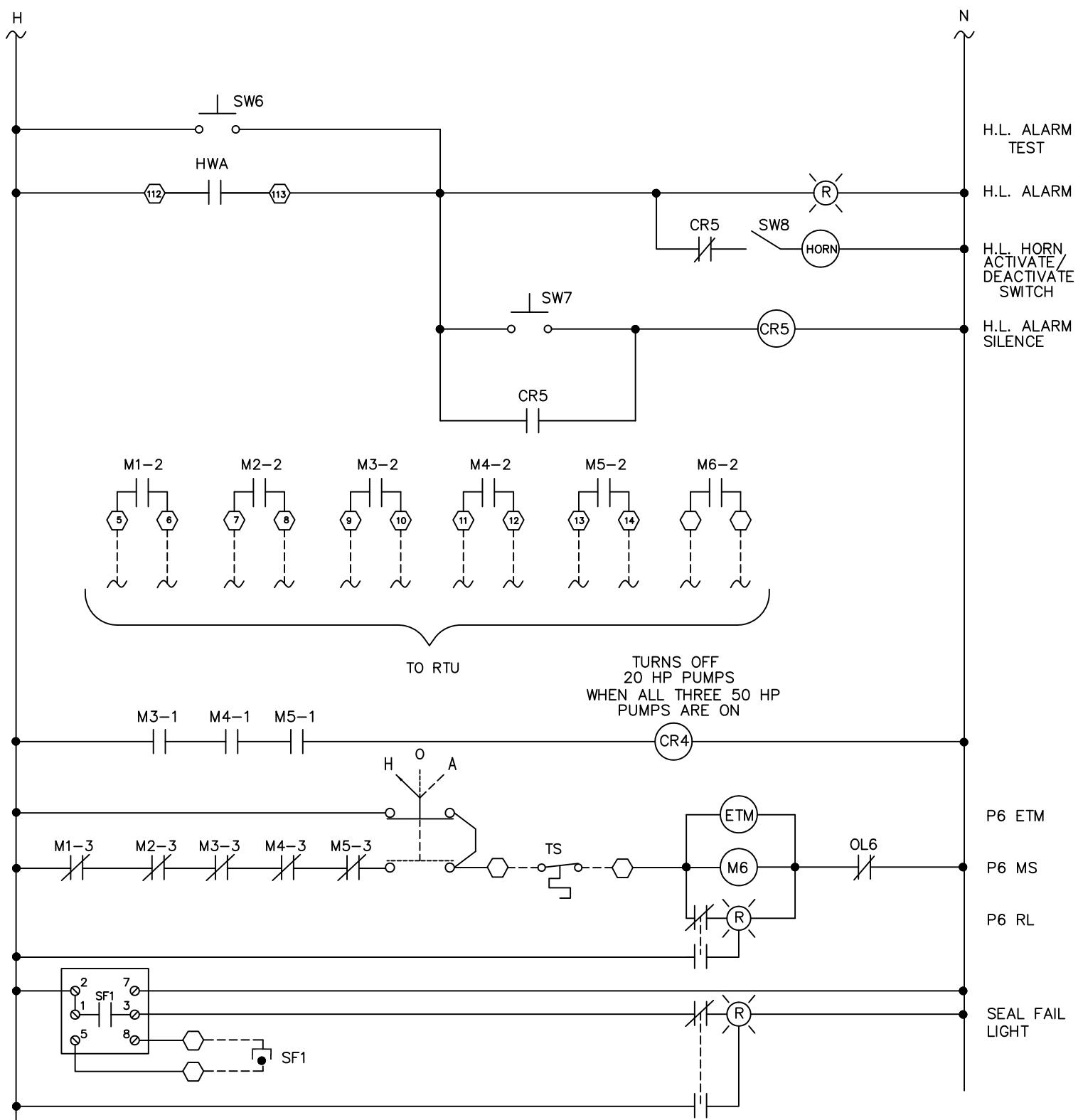
	Drawing Title  <b>POWER DIAGRAM</b>				
		1	ADD PUMP 6		9/19/03
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 5/28/02	S/N C.C.	Sales Engineer Application Engineer R.C.	DRAWN BY CTR	APPROVED BY DATE	
	Project Title  <b>FIVE PUMP CONTROL PANEL</b>	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348			PURCHASE ORDER NUMBER
					DRAWING NUMBER CP-1409
					SHEET NUMBER 2



	Drawing Title						
	CONTROL DIAGRAM						
DATE 5/28/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	DATE	BY
Project Title		PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				PURCHASE ORDER NUMBER	
FIVE PUMP CONTROL PANEL						DRAWING NUMBER CP-1409	
						SHEET NUMBER 3	



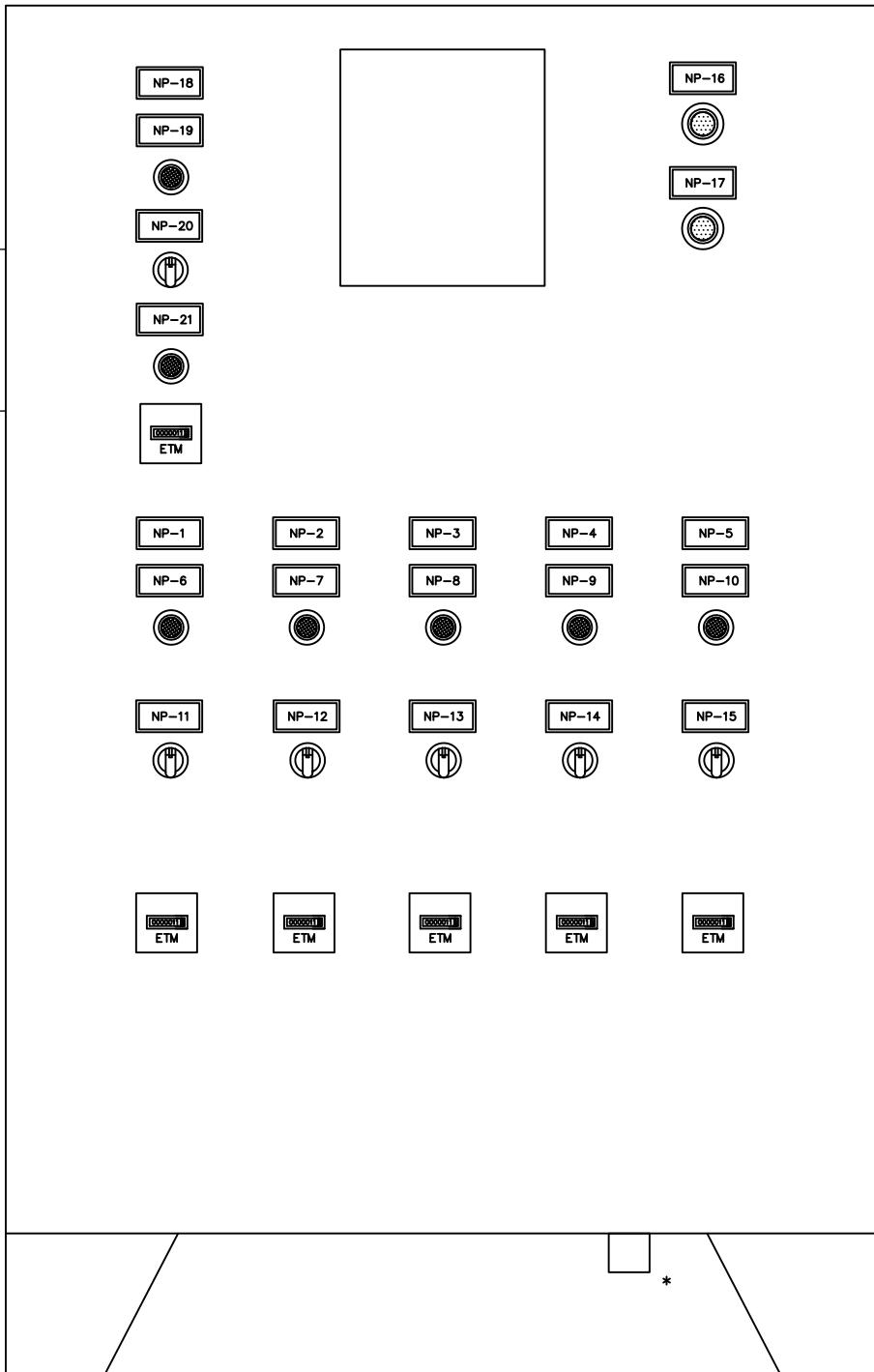
	Drawing Title								
	CONTROL DIAGRAM								
DATE 5/28/02		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR		APPROVED BY	DATE	BY
	Project Title  FIVE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348						PURCHASE ORDER NUMBER	
								DRAWING NUMBER CP-1409	
								SHEET NUMBER 4	



SET TIME DELAYS TO START ON RESTORATION OF POWER  
AS FOLLOWS IF CALLING FOR ALL PUMPS TO RUN:

P3 = 1 SEC.  
 P4 = 2 SEC.  
 P5 = 3 SEC.  
 P1 = 4 SEC.  
 P2 = 5 SEC.

	Drawing Title  CONTROL DIAGRAM  DATE 5/28/02						
			1	ADD PUMP 6		9/19/03	
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR		DATE APPROVED BY DATE
	Project Title  FIVE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348					PURCHASE ORDER NUMBER
							DRAWING NUMBER CP-1409
							SHEET NUMBER 5



### VIEW OF SWING PANEL

#### NOTE:

SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	PUMP 3
NP-4	PUMP 4
NP-5	PUMP 5
NP-6	RUN
NP-7	RUN
NP-8	RUN
NP-9	RUN
NP-10	RUN
NP-11	HOA
NP-12	HOA
NP-13	HOA
NP-14	HOA
NP-15	HOA
NP-16	ALARM SILENCE
NP-17	ALARM TEST
NP-18	PUMP 6
NP-19	RUN
NP-20	HOA
NP-21	SEAL FAIL

\* DRAIN AND BREATHER

	Drawing Title						
	ENCLOSURE						
			1	ADD PUMP 6		9/19/03	
	REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 5/28/02	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
		C.C.	R.C.	BY CTR	BY	DATE	
	Project Title		PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348			PURCHASE ORDER NUMBER	
	FIVE PUMP CONTROL PANEL					DRAWING NUMBER CP-1409	
						SHEET NUMBER 6	

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S603612N4X	4X S.S. ENCLOSURE
1a	1	EBE	A6036P	BACK PLATE
1b	1	EBE	A6036SP	DEAD FRONT
2	2	ABB	S3N060TW	CB 1,2
3	3	ABB	S3N100TW	CB 3.4.5
4	2	ABB	A50N2-30-11-84	MS 1,2 NEMA SIZE 2
5	3	ABB	A75N3-30-11-84	MS 3,4,5 NEMA SIZE 3
6	2	ABB	TA75DU32	OL 1,2 (22-32A)
7	3	ABB	TA75DU80	OL 3,4,5 (60-80A)
8	1	TIMEMARK	4082	LIQUID LEVEL CONTROLLER
9	1	TIMEMARK	261DT120	DUPLEX ALTERNATOR
10	1	DIVERSIFIED	ARM-120-ACE	TRIPLEX ALTERNATOR
11	1	KPSI	700	TRANSDUCER
12	1	SQD	9070TF200D1	TRANSFORMER
13	7	A-B	800H-QRB10R	PTT PILOT LIGHT RED
14	5	A-B	800H-JR2A	HOA SWITCH
15	2	A-B	800H-AR2D1	PUSH BUTTON
16	1	EDWARDS	870PN5	HORN
17	1	C-H	CHSA03	LIGHTNING ARRESTOR
18	6	REDINGTON	711-0187	ELAPSED TIME METER
19	1	SSAC	PLMU-11	PHASE MONITOR
20	5	DAYTON	2A561	T.D. RELAY
21	1	CROUSE-HINDS	ECD18	DRAIN AND BREATHER
22	1	BUSS	3XH65	DISTRIBUTION BLOCK
23	1	BUSS	3XH82	DIST. BLOCK COVER
24	1	HUBBELL	NAV15GG	ALARM LIGHT
25	1	ABB	A16NO-30-10-84	MS6
26	1	ABB	TA25DU6.5	OL6 (4.5-6.5A)
27	1	ABB	S1NO15TL	CB6
28	1	SSAC	LLC54AA	SEAL FAIL RELAY
29	1	SQD	9070KS43B	HOA

	Drawing Title  <b>BILL OF MATERIALS</b>  DATE 5/28/02					
			1	ADD PUMP 6		9/19/03
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR	APPROVED BY DATE
		Project Title  <b>FIVE PUMP CONTROL PANEL</b>	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348			PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1409  SHEET NUMBER 7

# TRANSDUCER & FLOATS SETTINGS

DEPTH    MSL

11.75	19.00	↙ REDUNDANT H.L. START FLOAT FS2
11.25	18.50	HWA
10.75	18.00	50      50      50
10.00	17.25	20      20      50
9.25	16.50	20      20      50
8.50	15.75	20      20
5.50	12.75	20
4.50	11.75	ALL OFF
4.00	11.25	↙ REDUNDANT OFF FLOAT FS1
0	7.25	————+—— ———U— BOTTOM OF TRANSDUCER
-0.75	6.50	————+—— ———9"——————→ BOTTOM OF FLOOR

MSL = MEAN SEA LEVEL

	Drawing Title						
	TRANSDUCER & FLOATS SETTINGS						
DATE 5/28/02	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY	BY	
	Project Title FIVE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				PURCHASE ORDER NUMBER DRAWING NUMBER CP-1409	
						SHEET NUMBER 8	