

PARSON & SANDERSON, INC.

PWCP
PROCESS WATER CONTROL PANEL
CITY OF LAKE CHARLES

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

VOLTAGE	<u>480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2, 1</u>	
HP	<u>10, 7.5</u>	
FLA	<u>13, 10</u>	
TYPE OF PUMP	<u>Pump/Compressor</u>	(Self-Priming, Submersible)
MANUFACTURER	<u></u>	
CATALOG NUMBER	<u></u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Stainless Steel</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u></u>	(Floats, Bubbler, Other)
CAPACITORS	<u></u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u></u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	

OPTIONS:

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

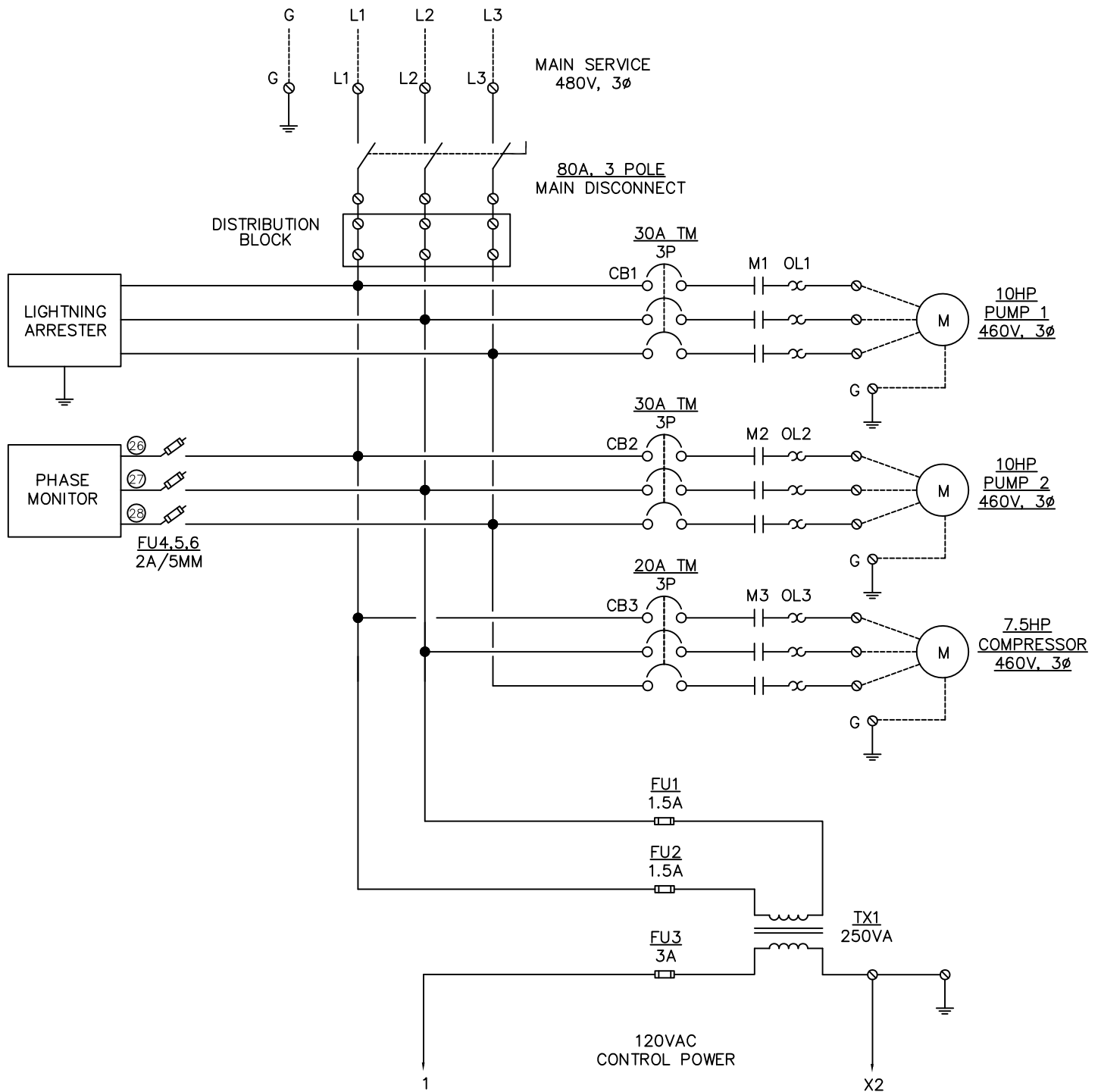
SOLD TO: Parson & Sanderson, Inc.

TAG : Lake Charles Wastewater Treatment Plant

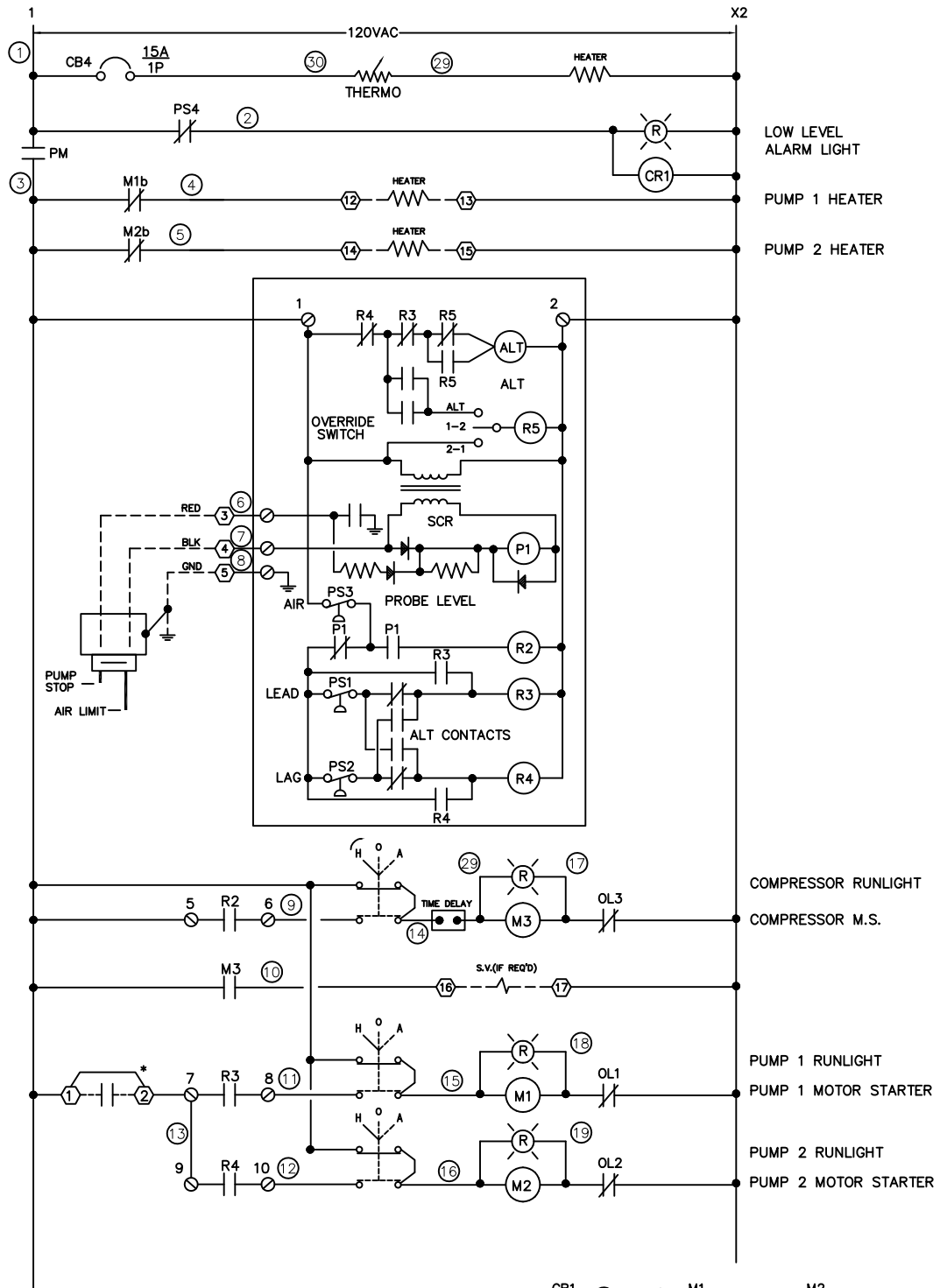
Process Water Control Panel

SHIP TO: Lake Charles WWTP Plant D

	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
2/05/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY
	Project Title	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				PURCHASE ORDER NUMBER	
	PROCESS WATER CONTROL PANEL					DRAWING NUMBER CP-1739	
						SHEET NUMBER 1	



	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
2/05/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED			
	Project Title	PARSON & SANDERSON, INC.					PURCHASE ORDER NUMBER		
	PROCESS WATER CONTROL PANEL	P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348					DRAWING NUMBER CP-1739		
							SHEET NUMBER 2		



FACTORY SETTINGS

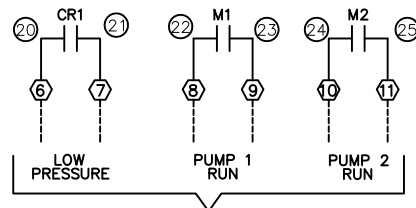
PS3 - ADD AIR - 60PSI
 PS1 - LEAD - 40PSI
 PS2 - LAG - 35PSI
 PS4 - LPA - 30PSI

OPERATION:

1. LEAD PUMP STARTS AT PS1 SETTING.
2. LAG PUMP STARTS AT PS2 SETTING.
3. PUMP STOPS WHEN WATER REACHES UPPER PROBE.
4. AIR IS ADDED AFTER PUMP STOPS IF PRESSURE IS LESS THAN PS3 SETTING.

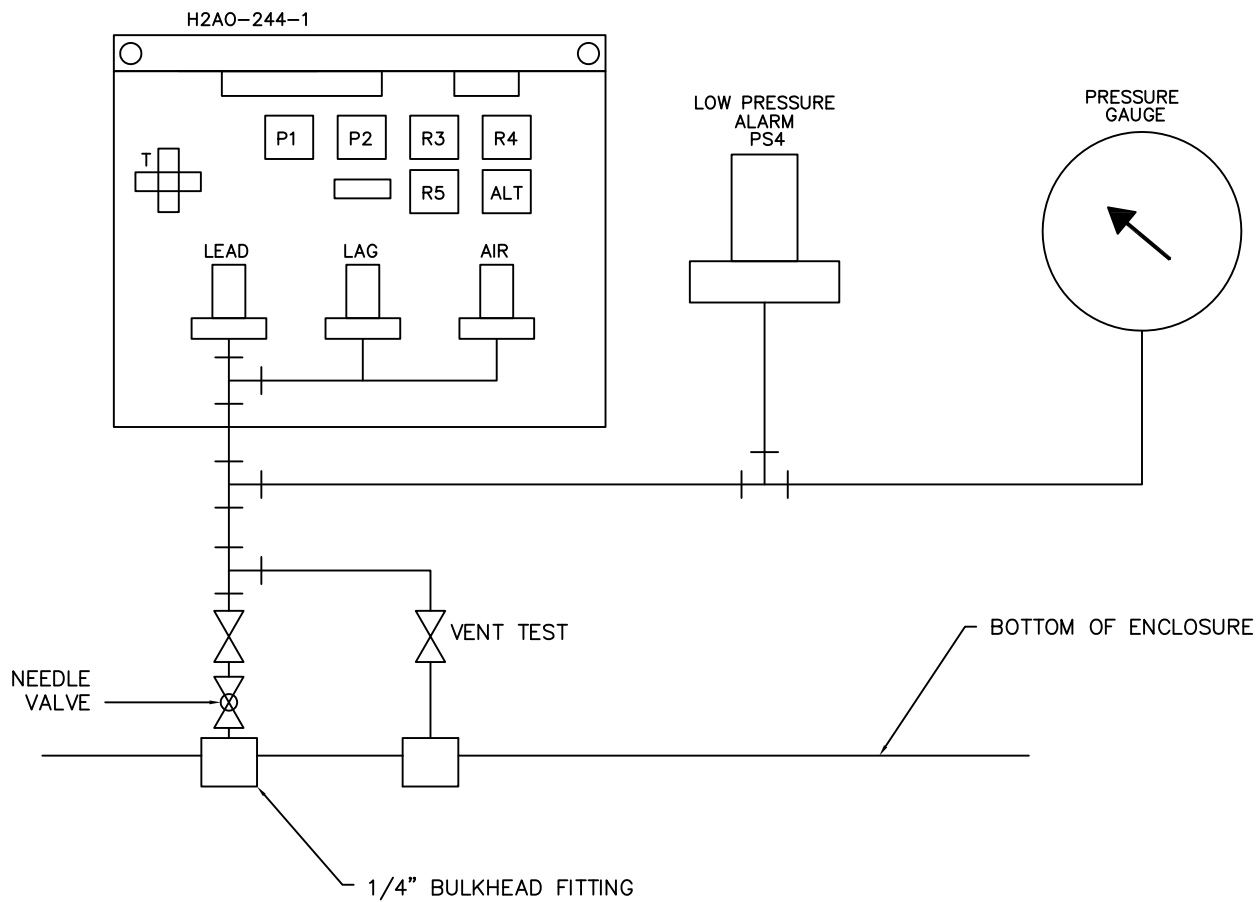
USE AUX. AIR COMPRESSOR TO SET PRESSURE SWITCHES
 OBSERVE PRESSURE GAUGE IN PANEL

* REMOVE JUMPER AND INSTALL LOCKOUT DEVICES IF REQUIRED

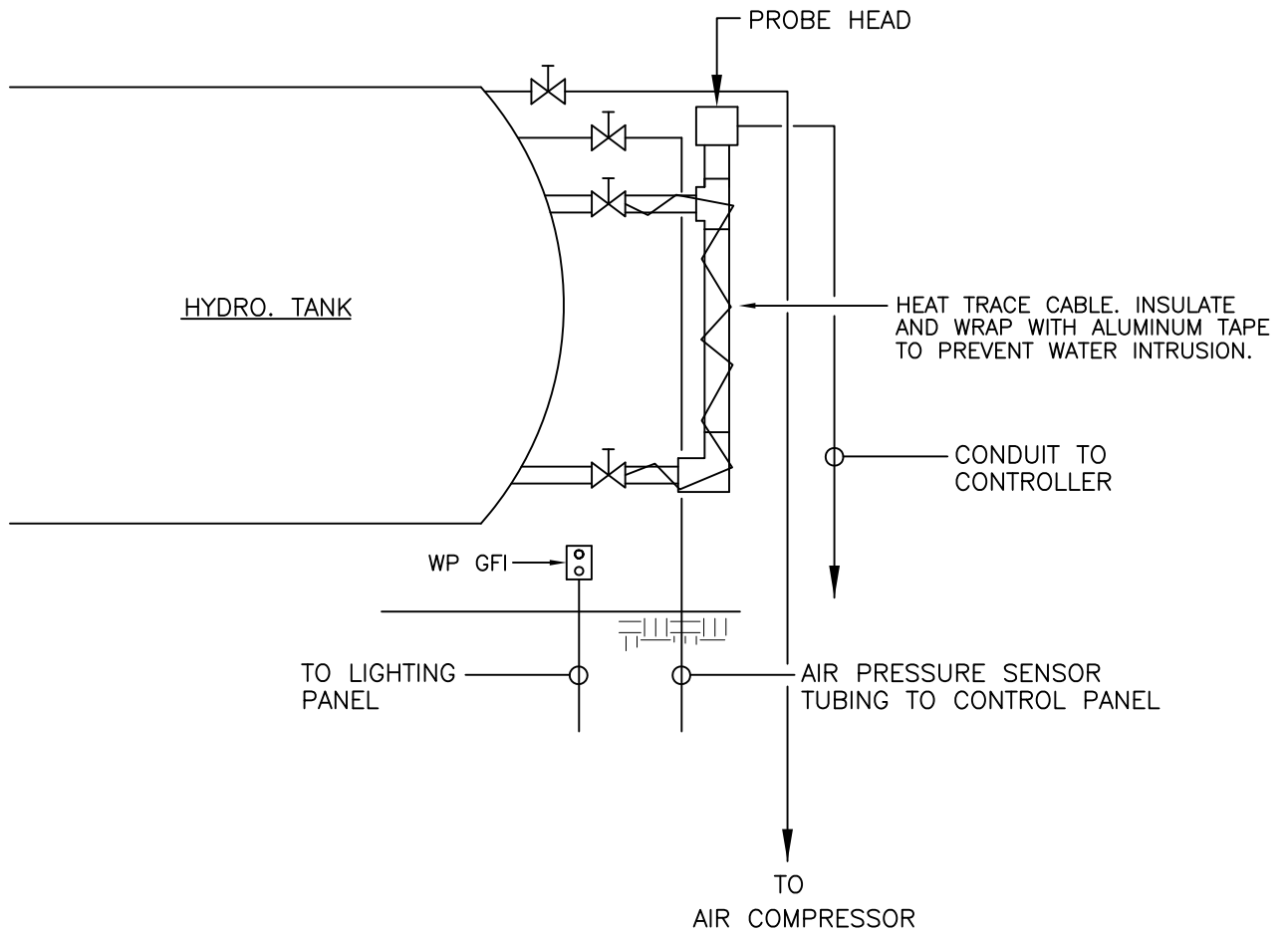


LEGEND	
	HYDROMASTER TERMINALS
	PANEL TERMINALS
	FIELD WIRES
	FACTORY WIRES

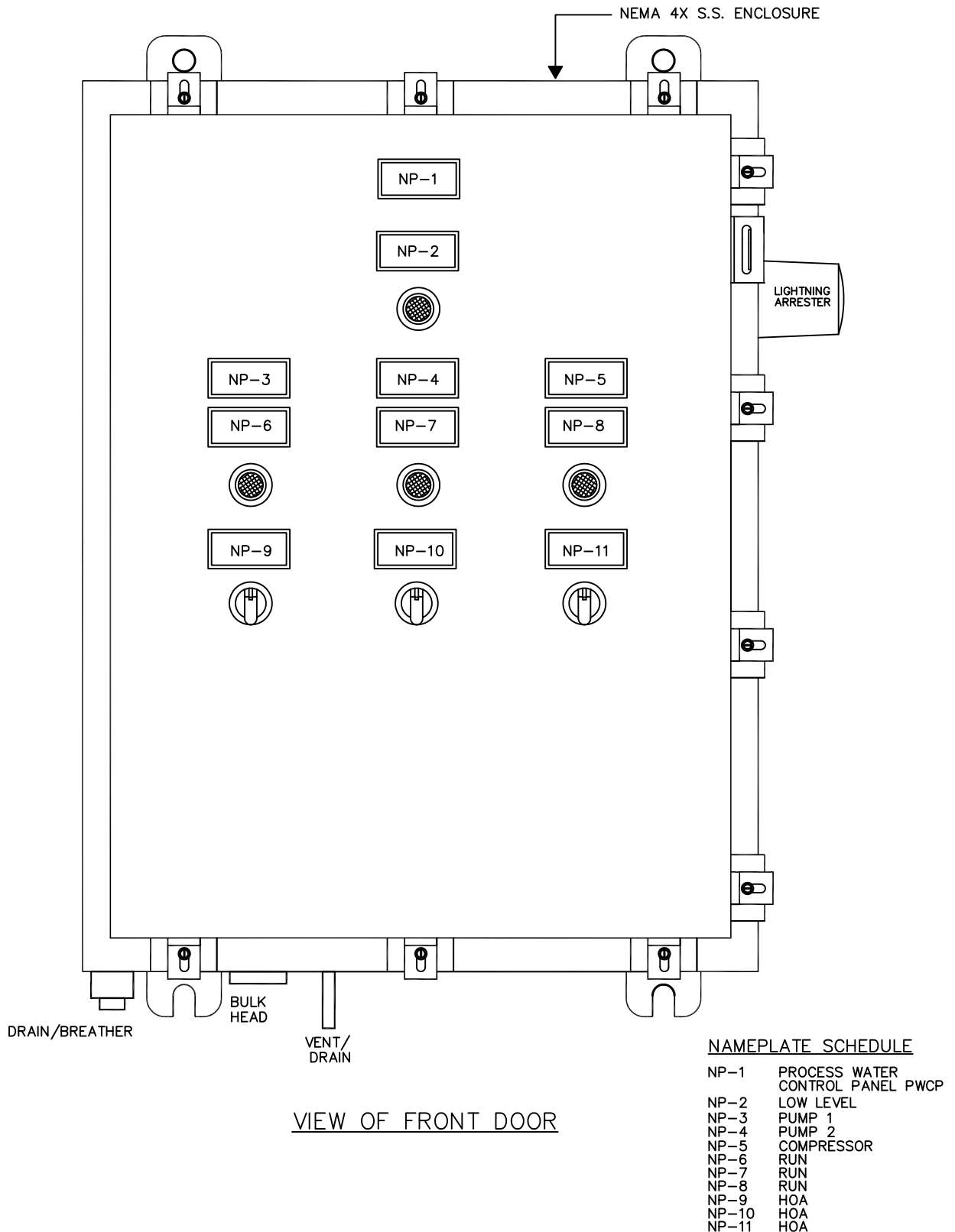
Drawing Title	CONTROL DIAGRAM					
DATE 2/05/04	Project Title	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				PURCHASE ORDER NUMBER
		DRAWING NUMBER CP-1739				
		SHEET NUMBER				3



	Drawing Title						
	PRESSURE SWITCH PIPING						
DATE 2/05/04		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	
	Project Title					PURCHASE ORDER NUMBER	
	PROCESS WATER CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				DRAWING NUMBER CP-1739	
						SHEET NUMBER	4



	Drawing Title							
DATE	HYDRO TANK PIPING	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
2/05/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED		
	Project Title	PARSON & SANDERSON, INC.				PURCHASE ORDER NUMBER		
	PROCESS WATER CONTROL PANEL	P.O. BOX 958				DRAWING NUMBER		
		METAIRIE, LA 70004				CP-1739		
		(504) 733-1330 Fax (504) 736-9348				SHEET NUMBER		
						5		



	Drawing Title								
	ENCLOSURE								
DATE 2/05/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	APPROVED	
	Project Title	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348					BY C. RACHAL	DATE	PURCHASE ORDER NUMBER
	PROCESS WATER CONTROL PANEL								DRAWING NUMBER CP-1739
									SHEET NUMBER 6

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S363010N4X	ENCLOSURE
1a	1	EBE	3630P	BACKPLATE
2	2	ABB	S1N030TL	CB1,2
3	1	ABB	S1N020TL	CB3
4	1	MLC	H2A0-244-1	HYDROMASTER
5	1	MLC	R-B PROBE ASSY	BRONZE PROBE HEAD
6	1	DAYTON	4BA54	30W HEATER
7	1	IDEC	RY2S-U	CR1
8	1	SQUARE D	9012GRG4	PRESSURE SWITCH PS4
9	1	AMTEK	5HK68	PRESSURE GAUGE
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
11	1	SQUARE D	QOU115	CB4
12	3	ABB	A26N1-30-10-84	M1,M2,M3
13	1	DELTA	LA603	LIGHTNING ARRESTER
14	1	SSAC	PLMU-11	PHASE MONITOR
15	1	ABB	OT63E3	DISCONNECT SWITCH
16	1	SQUARE D	9070TF250D1	TRANSFORMER
17	1	A-B	800H-JR4A	HOA SPRING RETURN FROM LEFT
18	2	ABB	CAL5-11	AUX. CONTACT
19	4	A-B	800H-QRT10R	RED PTT PILOT LIGHT
20	2	A-B	800H-JR2A	H-O-A SWITCH
21	2	ABB	TA25DU14	O.L. RELAY (10-14A)
22	1	ABB	TA25DU11	O.L. RELAY (7.5-11A)
23	1	DAYTON	2A561	TIME DELAY
24				
25				

	Drawing Title							
	BILL OF MATERIALS							
DATE 2/05/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
						APPROVED		
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	PROCESS WATER CONTROL PANEL					DRAWING NUMBER CP-1739		
						SHEET NUMBER 7		