

**PARSON & SANDERSON, INC.**

PWCP  
PROCESS WATER CONTROL PANEL  
CITY OF LAKE CHARLES

AS BUILTS

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

CP-1739

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>	

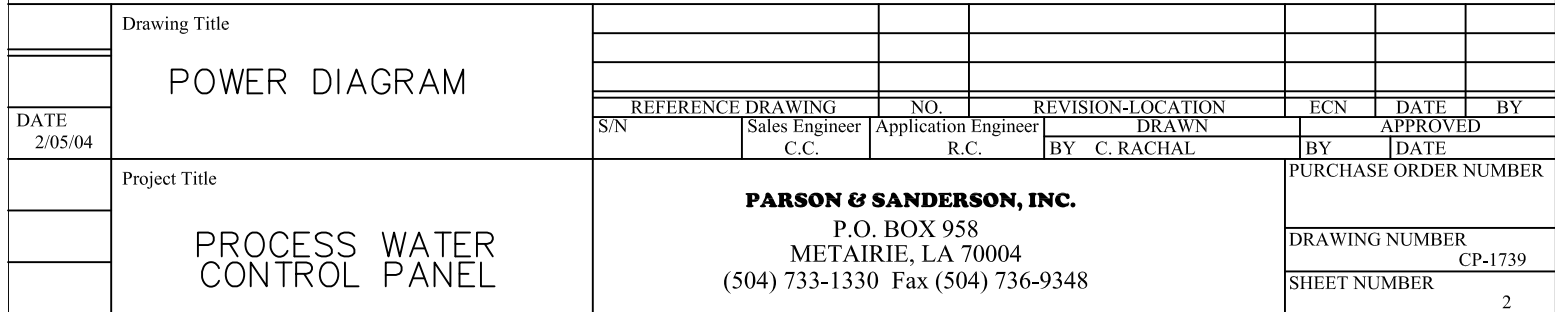
SOLD TO: Parson & Sanderson, Inc.

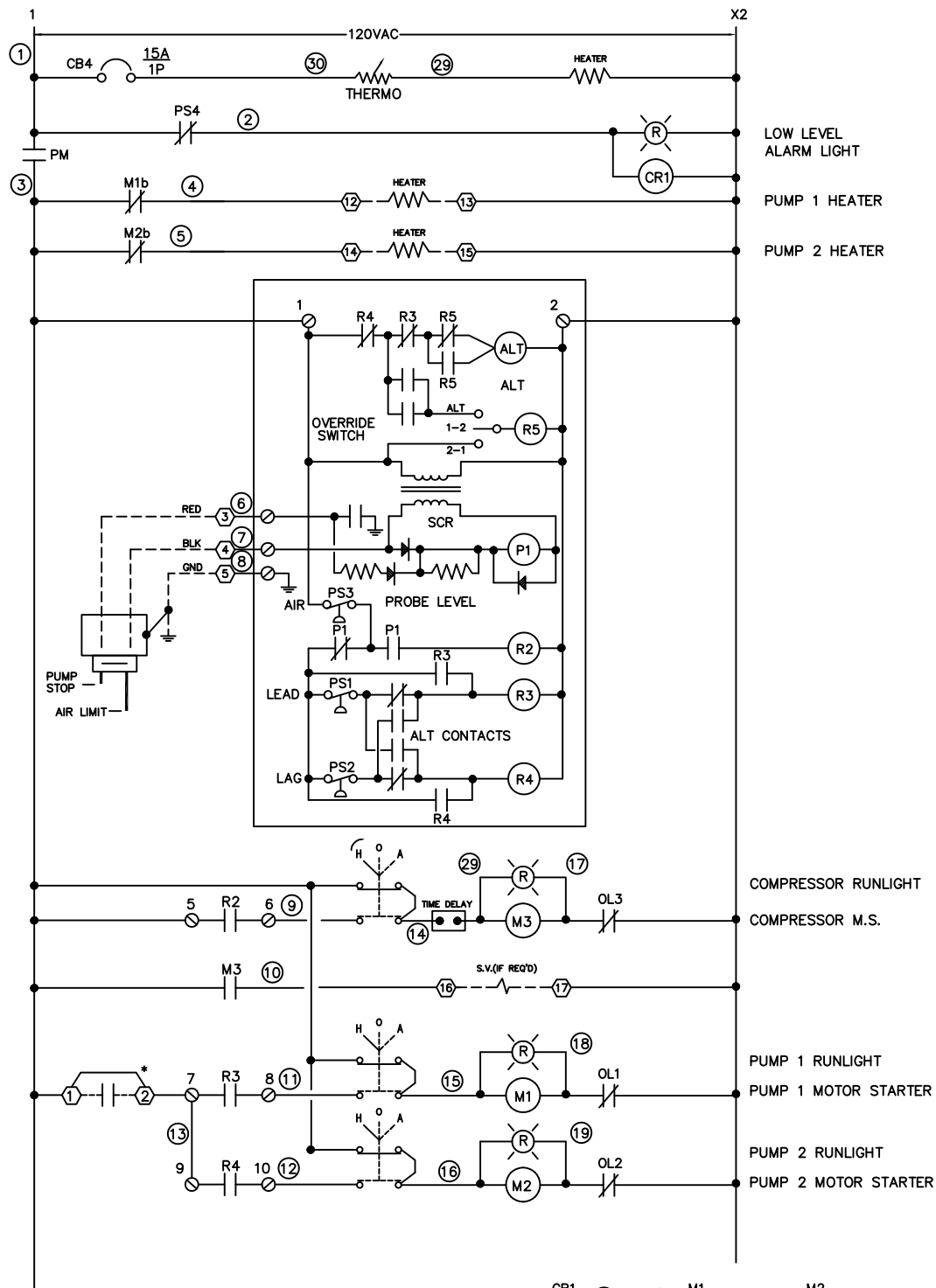
TAG : Lake Charles Wastewater Treatment Plant

Process Water Control Panel

SHIP TO: Lake Charles WWTP Plant D

	Drawing Title						
	PANEL DESCRIPTION						
DATE 2/05/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<b>PARSON &amp; SANDERSON, INC.</b> 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	





# **FACTORY SETTINGS**

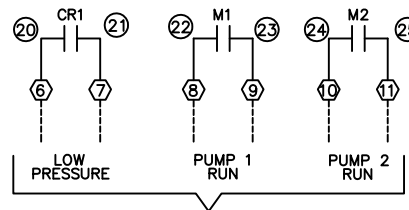
PS3 - ADD AIR - 60PSI  
 PS1 - LEAD - 40PSI  
 PS2 - LAG - 35PSI  
 PS4 - LPA - 30PSI

## **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

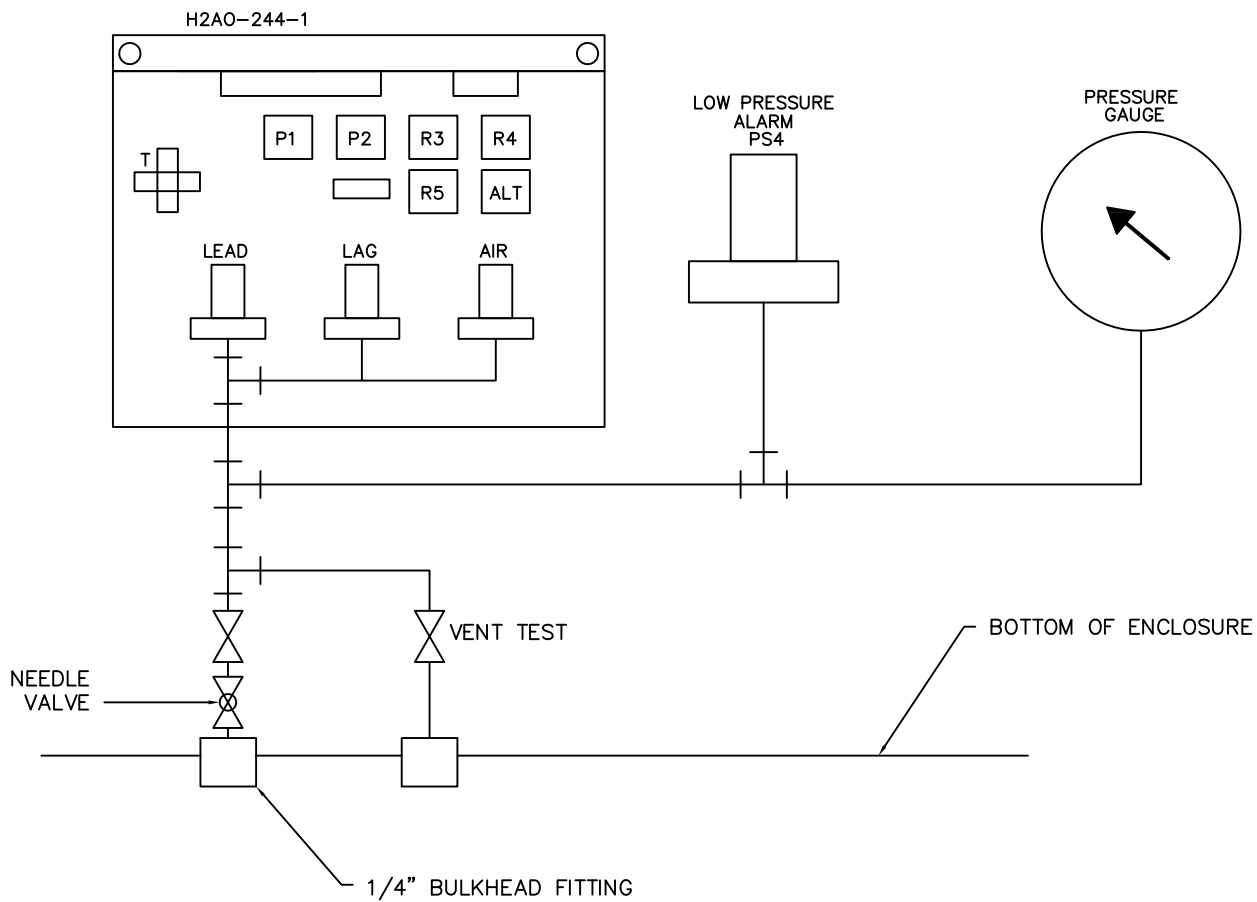


LEGEND		
	HYDROMASTER TERMINALS	
	PANEL TERMINALS	
	FIELD WIRES	
	FACTORY WIRES	

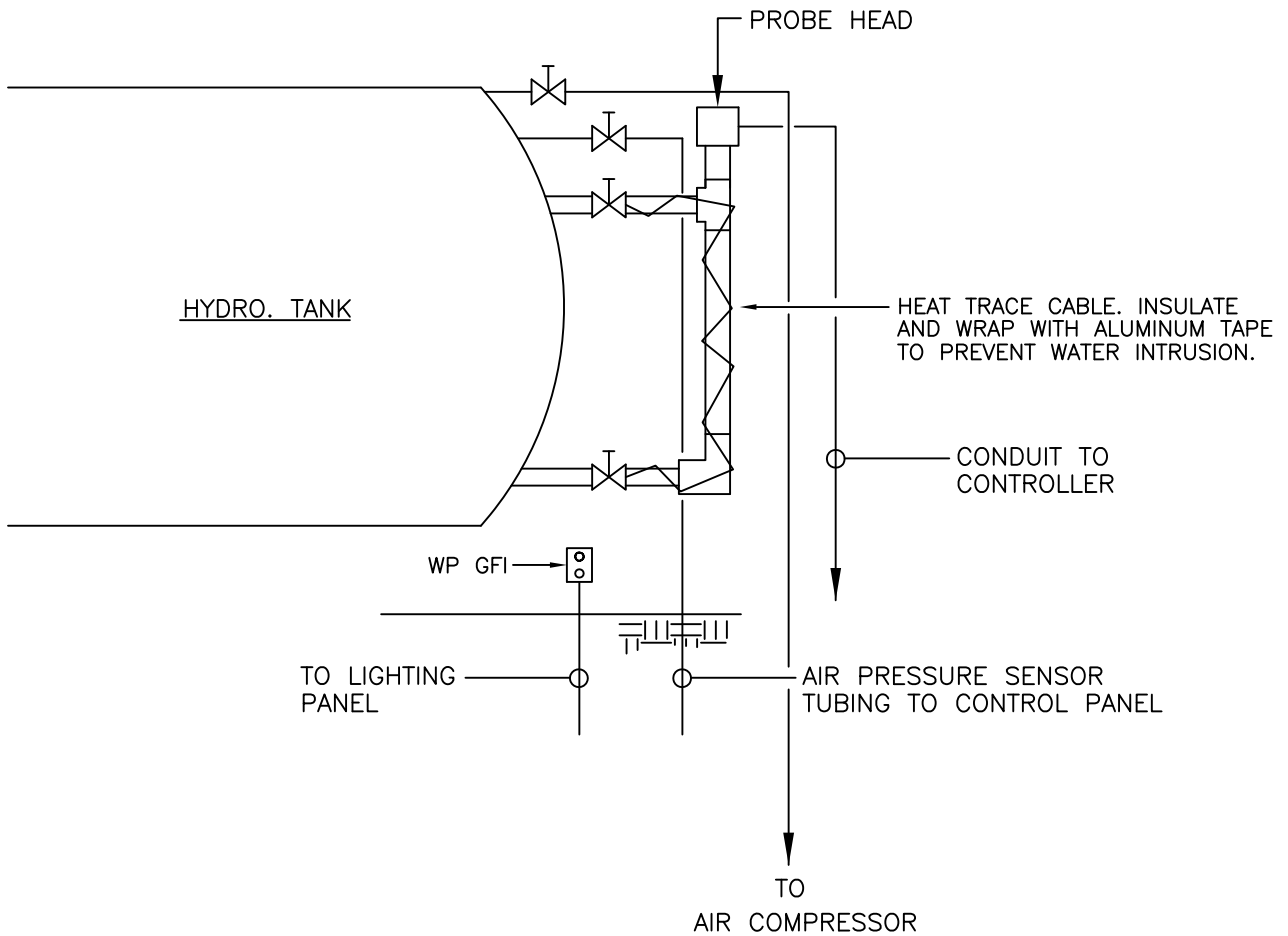
Drawing Title							
CONTROL DIAGRAM							
DATE 2/05/04	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DATE
Project Title		DRAWN BY C. RACHAL		APPROVED BY		DATE	
PROCESS WATER CONTROL PANEL		PURCHASE ORDER NUMBER					
		DRAWING NUMBER CP-1739			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

**PARSON & SANDERSON, INC.**

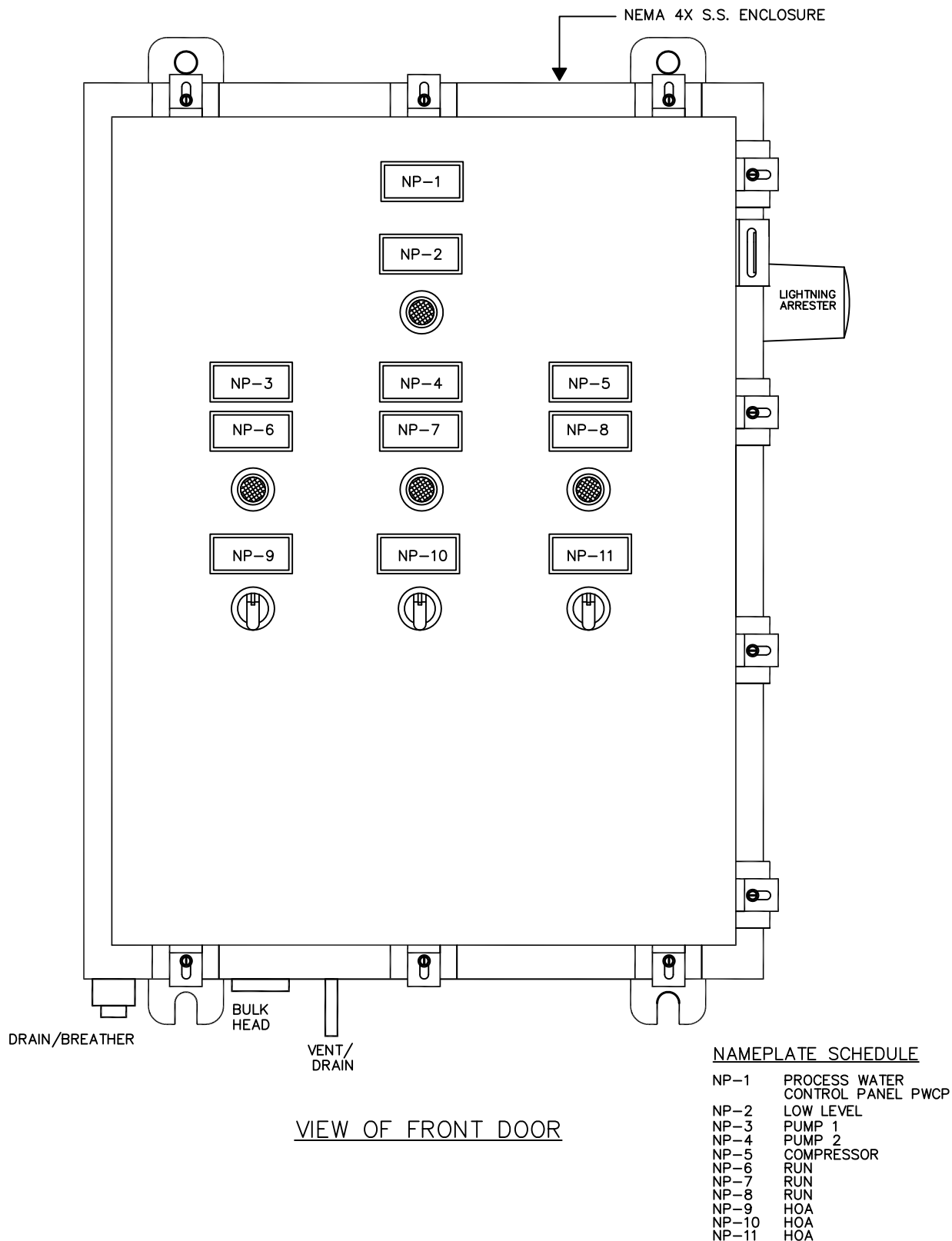
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	Drawing Title							
	PRESSURE SWITCH PIPING							
DATE 2/05/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN BY C. RACHAL	DATE BY	DATE DATE	BY
	Project Title	<b>PARSON &amp; SANDERSON, INC.</b>  P.O. 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 4		



	Drawing Title   <
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	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	
	Project Title	DRAWN BY C. RACHAL				APPROVED BY DATE		
	PROCESS WATER CONTROL PANEL	PURCHASE ORDER NUMBER						
		DRAWING NUMBER CP-1739						
		SHEET NUMBER						
		6						

**PARSON & SANDERSON, INC.**

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# 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	H2AO-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				

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	PROCESS WATER CONTROL PANEL					DRAWING NUMBER CP-1739	
						SHEET NUMBER 7	