
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL TIMBERLINE BAPTIST CHURCH

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	16.1	
FLA	21.3	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	ABS	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

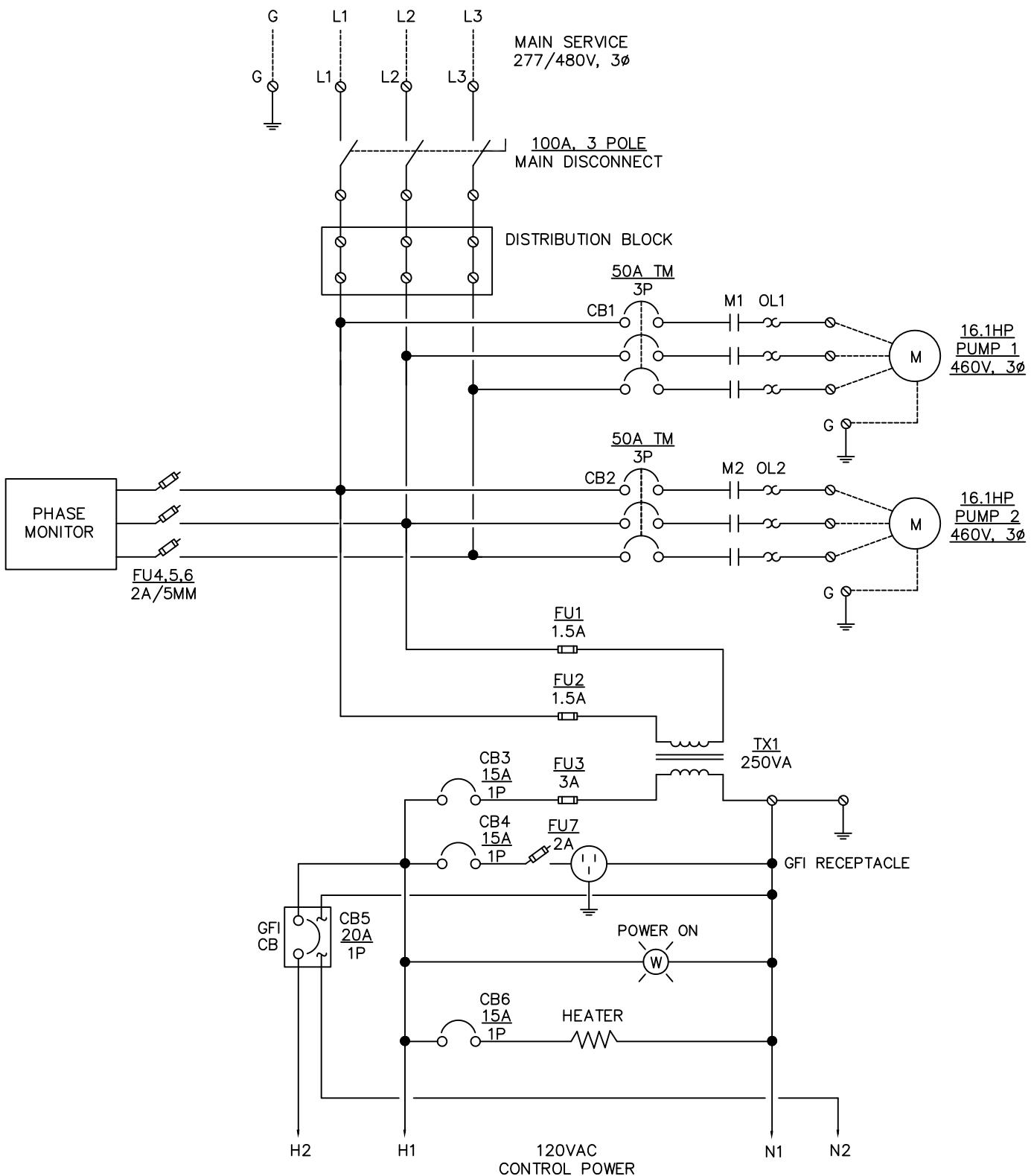
OPTIONS:

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

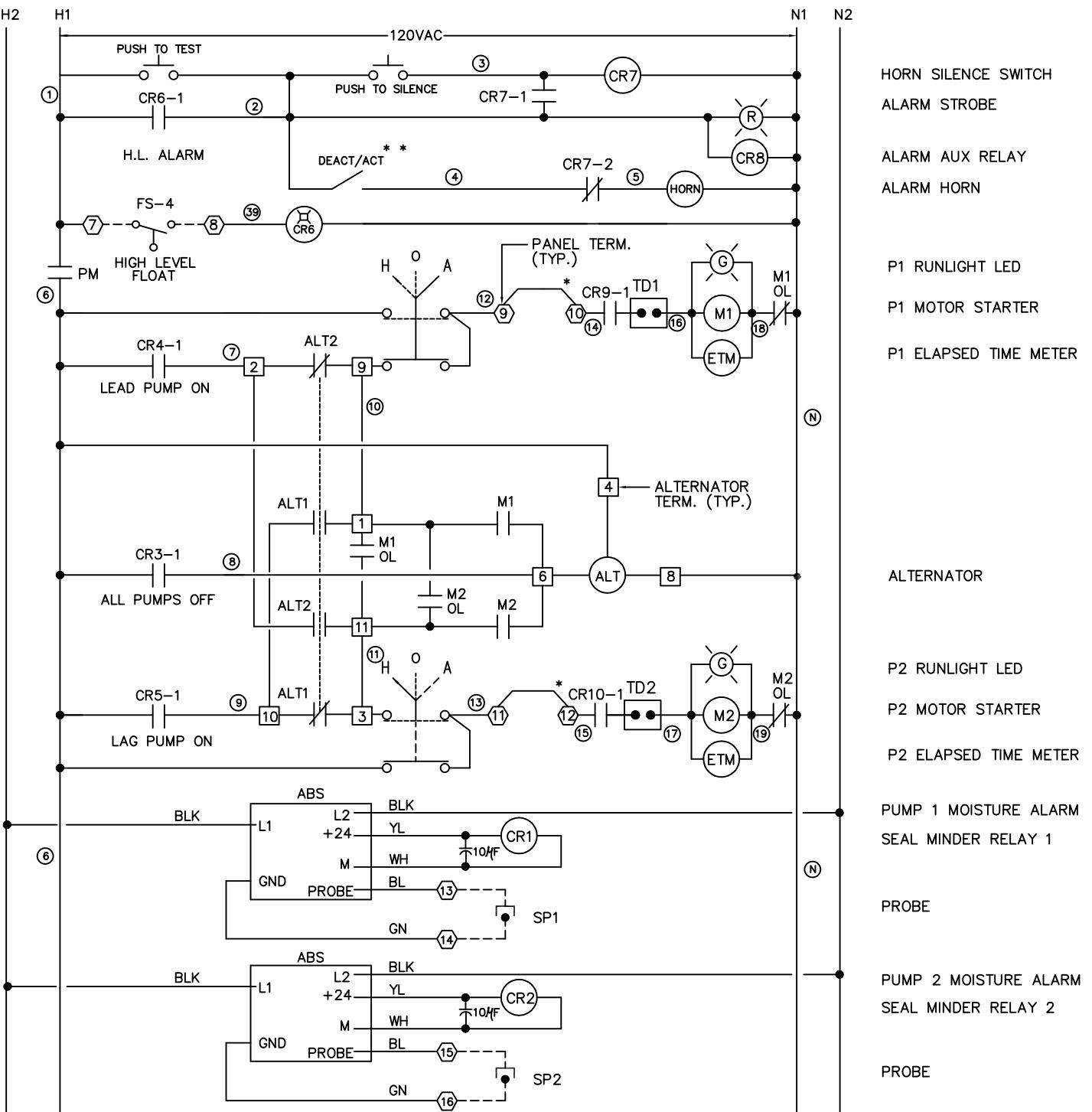
SOLD TO: CF ENGINEERED EQUIPMENT - DALLAS, TX
TAG : TIMBERLINE BAPTIST CHURCH

SHIP TO: CF ENGINEERED EQUIPMENT - DALLAS, TX

Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	BY C. RACHAL	BY	APPROVED	DATE
DATE 11/14/03	Project Title DUPLEX PUMP CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
					Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER	CP-1697	
							SHEET NUMBER		1



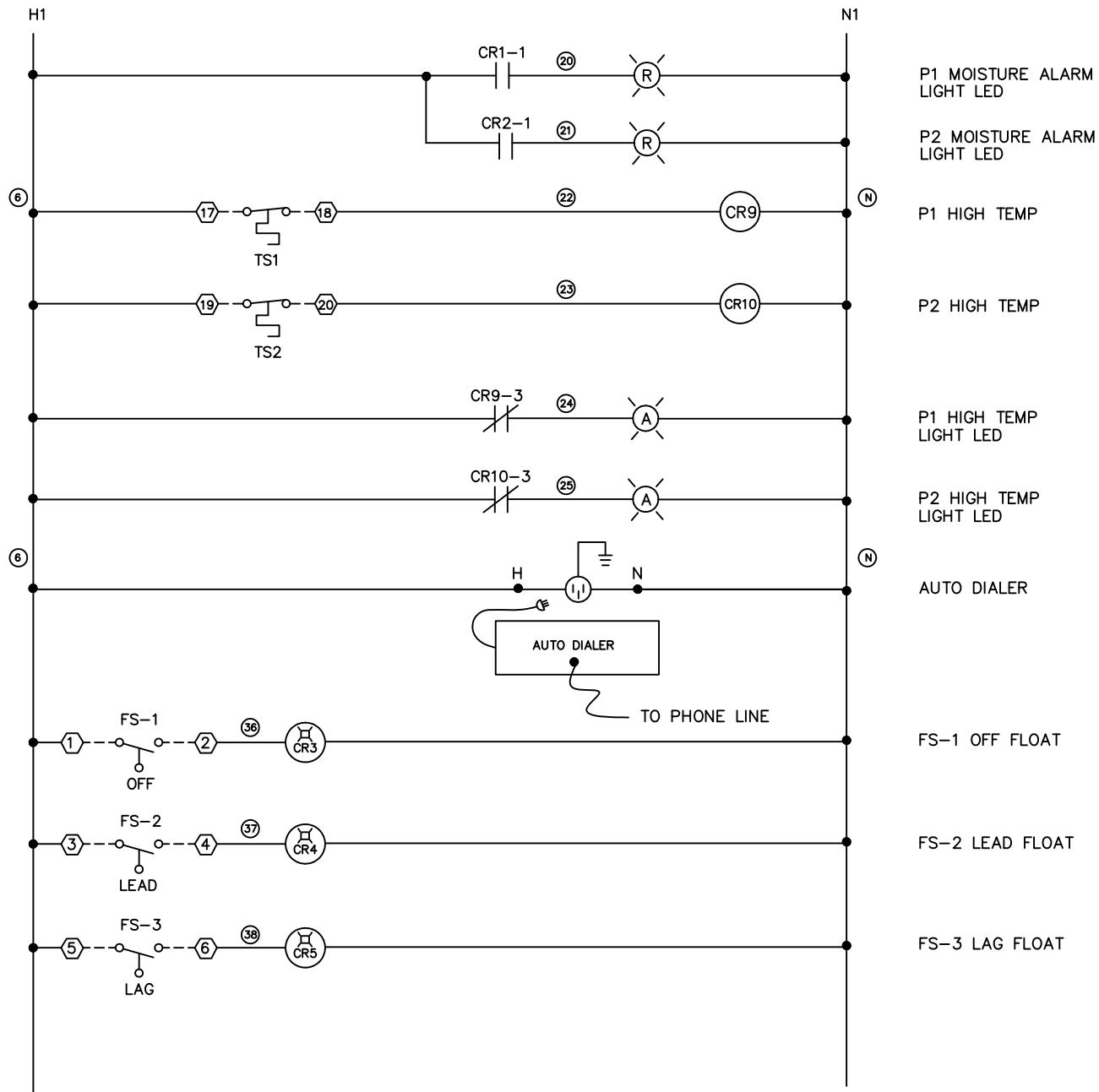
	Drawing Title POWER DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 11/14/03		Application Engineer R.C.			
	Project Title DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1697 SHEET NUMBER 2



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED
 * * DEACTIVATE/ACTIVATE SWITCH LOCATED ON BACKPLATE

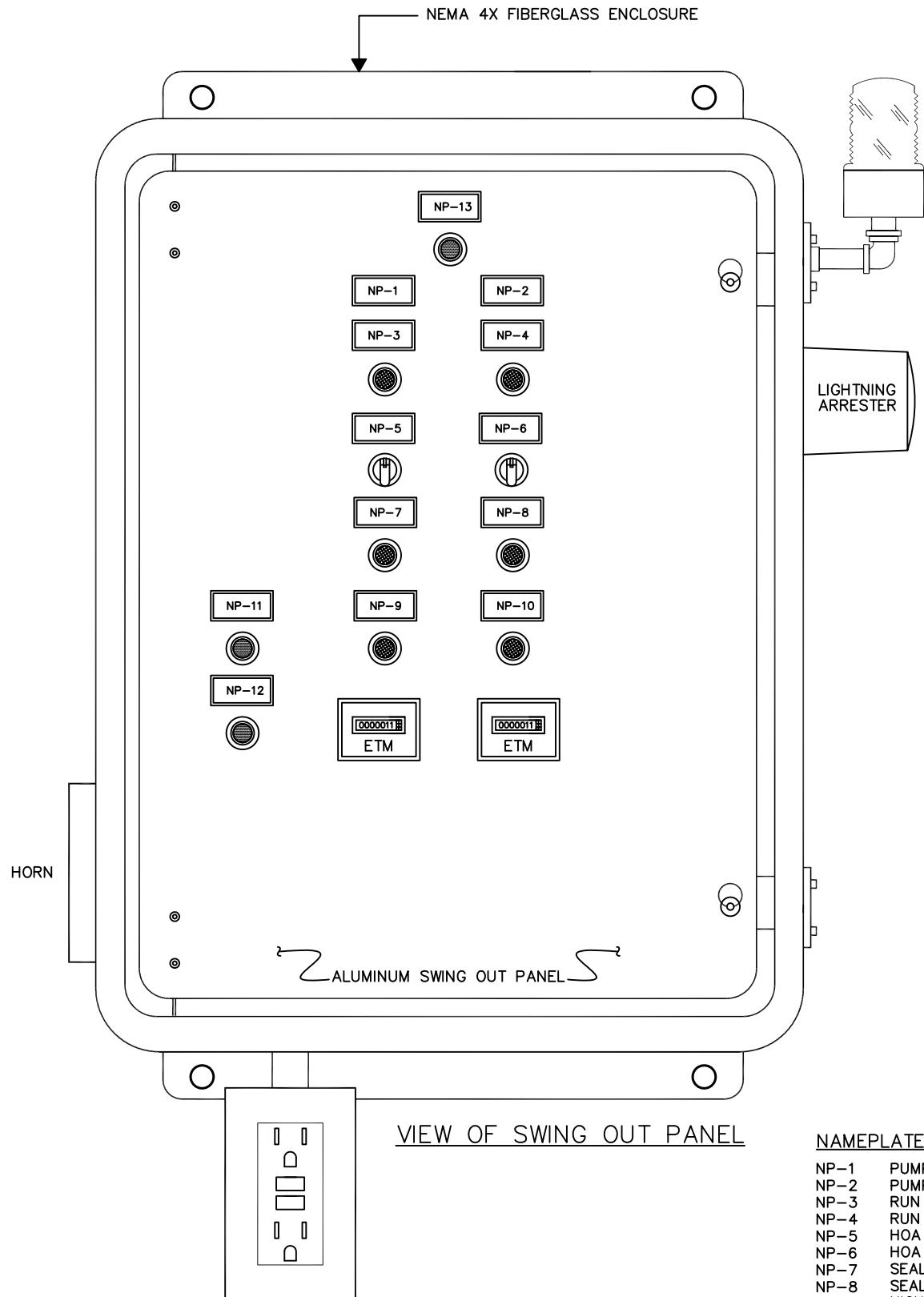
CR3-6, RELAYS WITH LED FOR FLOAT POSITION INDICATION

	Drawing Title							ECN	DATE	BY
		REFERENCE DRAWING		NO.	REVISION-LOCATION					
DATE	S/N		Sales Engineer	Application Engineer	DRAWN	APPROVED				
11/14/03	C.C.			R.C.	BY C. RACHAL	BY DATE				
	Project Title						PURCHASE ORDER NUMBER			
	COX						DRAWING NUMBER			
	Research and Technology, Inc.						CP-1697			
	P.O. Box 77808 Baton Rouge, LA 70809						SHEET NUMBER			
	Ph. (225)756-3271 Fax (225)756-1030						3			



TELEPHONE DIALER			
CHANNEL 1: PUMP 1 & 2 MOISTURE ALARM			
CHANNEL 2: HIGH WATER ALARM			
CHANNEL 3: PUMP 1 HIGH TEMP			
CHANNEL 4: PUMP 2 HIGH TEMP			

	Drawing Title CONTROL DIAGRAM			
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL
DATE 11/14/03		Application Engineer R.C.		ECN APPROVED BY DATE
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		PURCHASE ORDER NUMBER
				DRAWING NUMBER CP-1697
				SHEET NUMBER 4



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

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	HIGH TEMP
NP-10	HIGH TEMP
NP-11	ALARM SILENCE
NP-12	ALARM TEST
NP-13	POWER ON

	Drawing Title					
	ENCLOSURE					
DATE 11/14/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	BY
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER SHEET NUMBER	CP-1697	5

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM302410RL	ENCLOSURE FIBERGLASS 4X
1a	1	ALLIED	PA3024	BACKPLATE
1b	1	ALLIED	HFP3024	DEAD FRONT
2	1	ABB	OT100E3	MAIN DISC. SWITCH
3	1	MARATHON	1323580	DISTRIBUTION BLOCK
4	2	ABB	SIN050TL	CB1,2
5	2	ABB	A26-30-10-84	MS1,2
6	2	ABB	TA25DU25	OL1,2 (18-25A)
7	1	SQUARE D	9070TF250D1	TRANSFORMER
8	2	ACI	JR22P3M20B	HOA SWITCH
9	2	ACI	JR22FG	RUN LIGHT
10	2	ACI	JR22FR	SEAL FAIL LIGHT
11	1	TIMEMARK	261DT120	ALTERNATOR
12	1	TOMAR	490S-120-R	STROBE
13	2	REDDINGTON	5120-2200	ELAPSED TIME METER
14	1	STOCK		GFI RECEPTACLE
15	1	EDWARDS	870P-N5	HORN
16	2	ACI	JR22AN11B	PUSH BUTTONS
17	1	TEEL	1D008	HEATER
18	3	SQUARE D	QOU115	CB3,4,6
19	1	CH	QCGF1020	CB5
20	1	CH	CHSA03	LIGHTNING ARRESTER
21	1	SSAC	PLMU11	PHASE MONITOR
22	2	DAYTON	2A561	TD1,2
23	1	MICROTEL	DIALSTAT 4	AUTO DIALER
24	2	ABS	SEAL MINDER	SEAL FAIL RELAYS
25	1	ACI	JR22FW	POWER ON LIGHT
26	2	OMRON	G2R2SDC24	CR1-2
27	4	OMRON	MY21N120	CR3-6
28	2	OMRON	G2R2SAC120	CR7-8
29	2	OMRON	MY41N120	CR9-10
30				

* SUPPLIED BY CFEE

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*

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	BILL OF MATERIALS							
			REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE
DATE 11/14/03			S/N	Sales Engineer	Application Engineer	DRAWN	BY	APPROVED
			C.C.		R.C.	BY C. RACHAL	BY	DATE
	Project Title		COX		PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER CP-1697			
					SHEET NUMBER 6			