
COX

Research and Technology, Inc.

SOUTHERN DUPLEX PUMP CONTROL PANEL

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

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>10</u>	
FLA	<u>14 est.</u>	
TYPE OF PUMP	<u>Chopper</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>Vaughan</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>Fiberglass</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Floats</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	


OPTIONS:

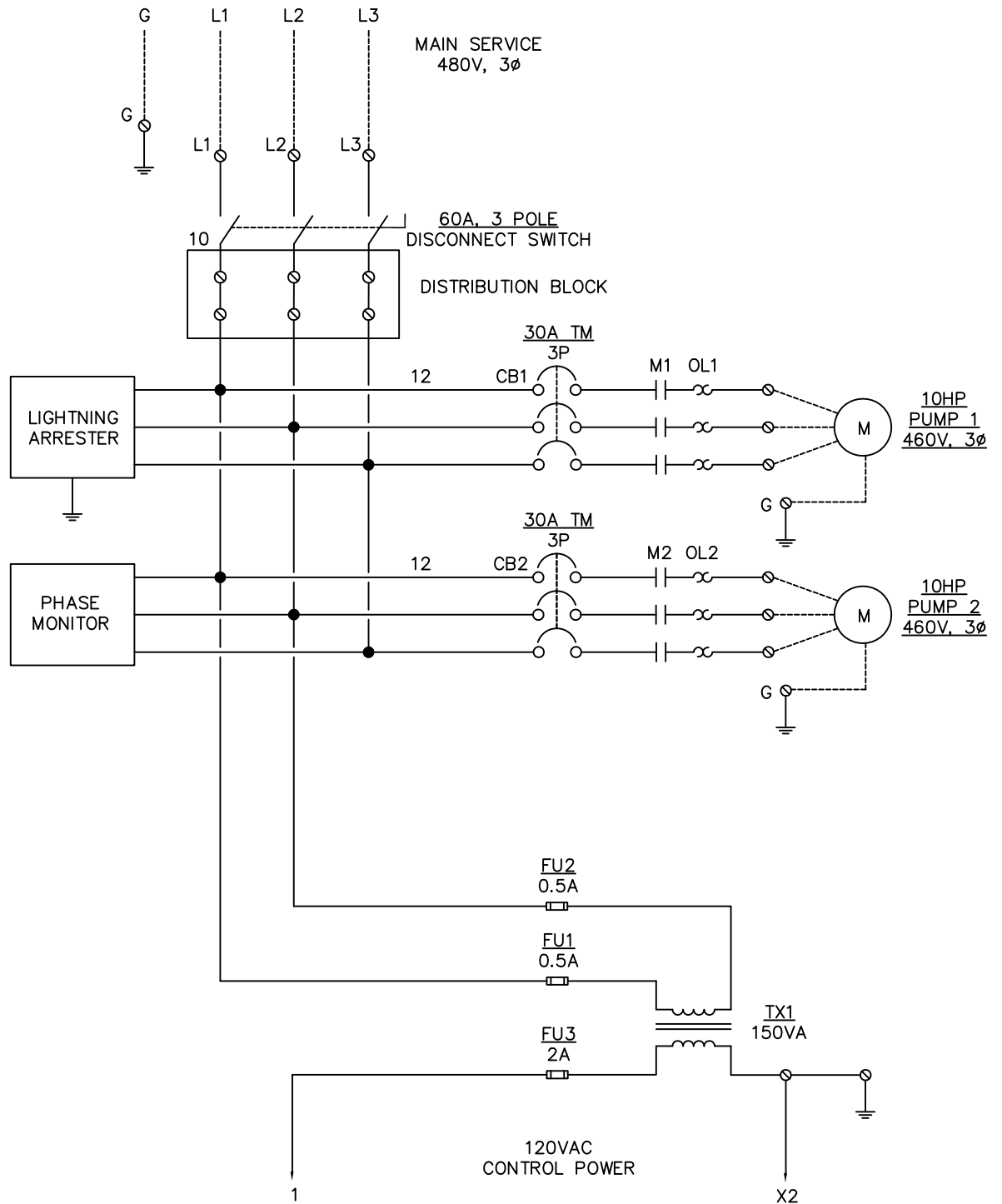
SEAL FAIL LIGHTS	<u>X</u>	(Submersible Only)
SEAL FAIL RELAYS	<u>X</u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u></u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN	<u></u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD	<u></u>	
LIGHT FLASHER	<u></u>	
LIGHTNING ARRESTER	<u>X</u>	
ELAPSED TIME METER	<u>X</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>X</u>	
INTRINSICALLY SAFE RELAYS	<u></u>	
HIGH TEMP. LOCKOUT, MANUAL RESET	<u></u>	
ECONOMY VERSION	<u>X</u>	

SOLD TO: Delta Process - Denham Springs, LA

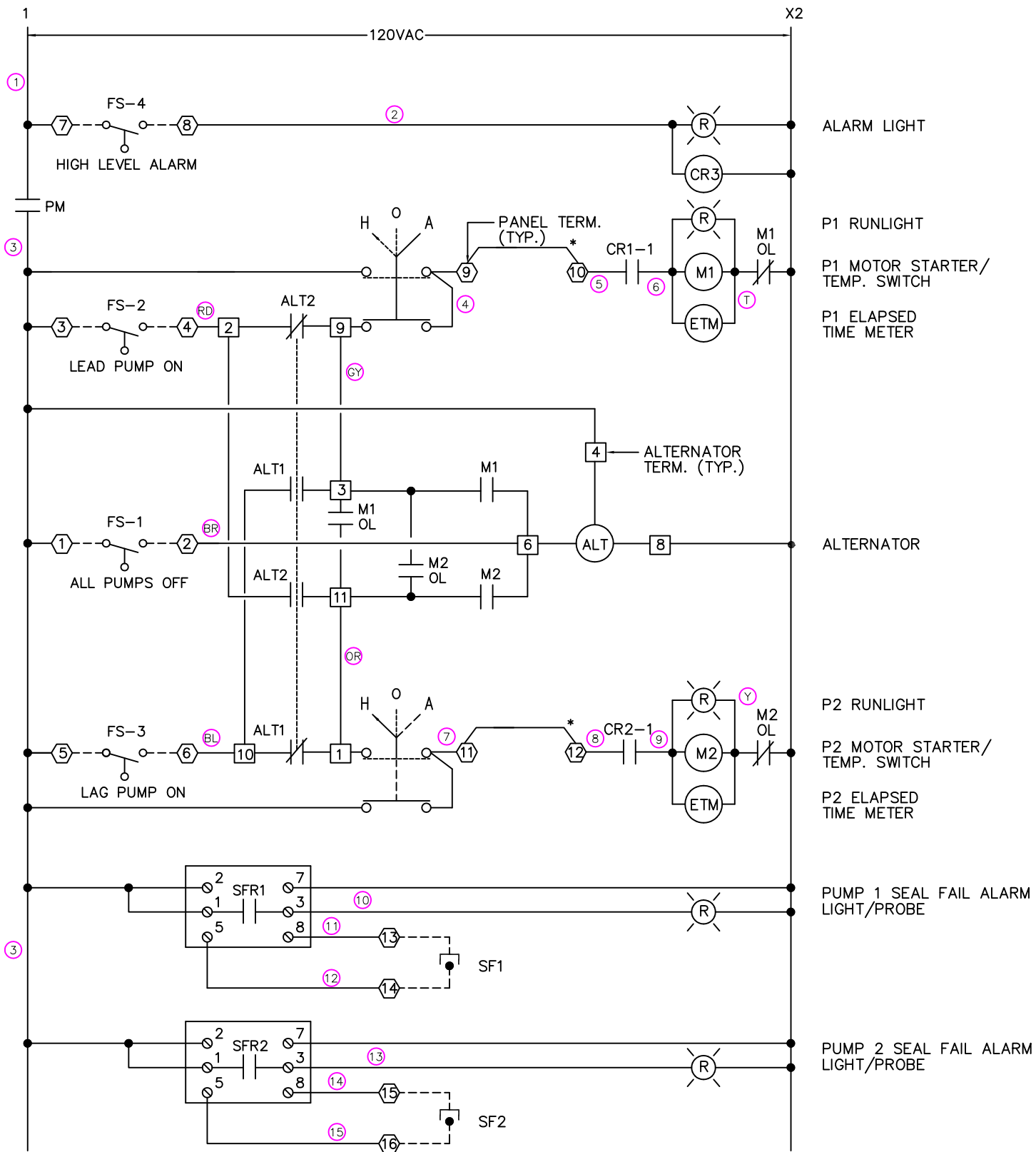
TAG : SOUTHERN

SHIP TO: Delta Process - Denham Springs, LA

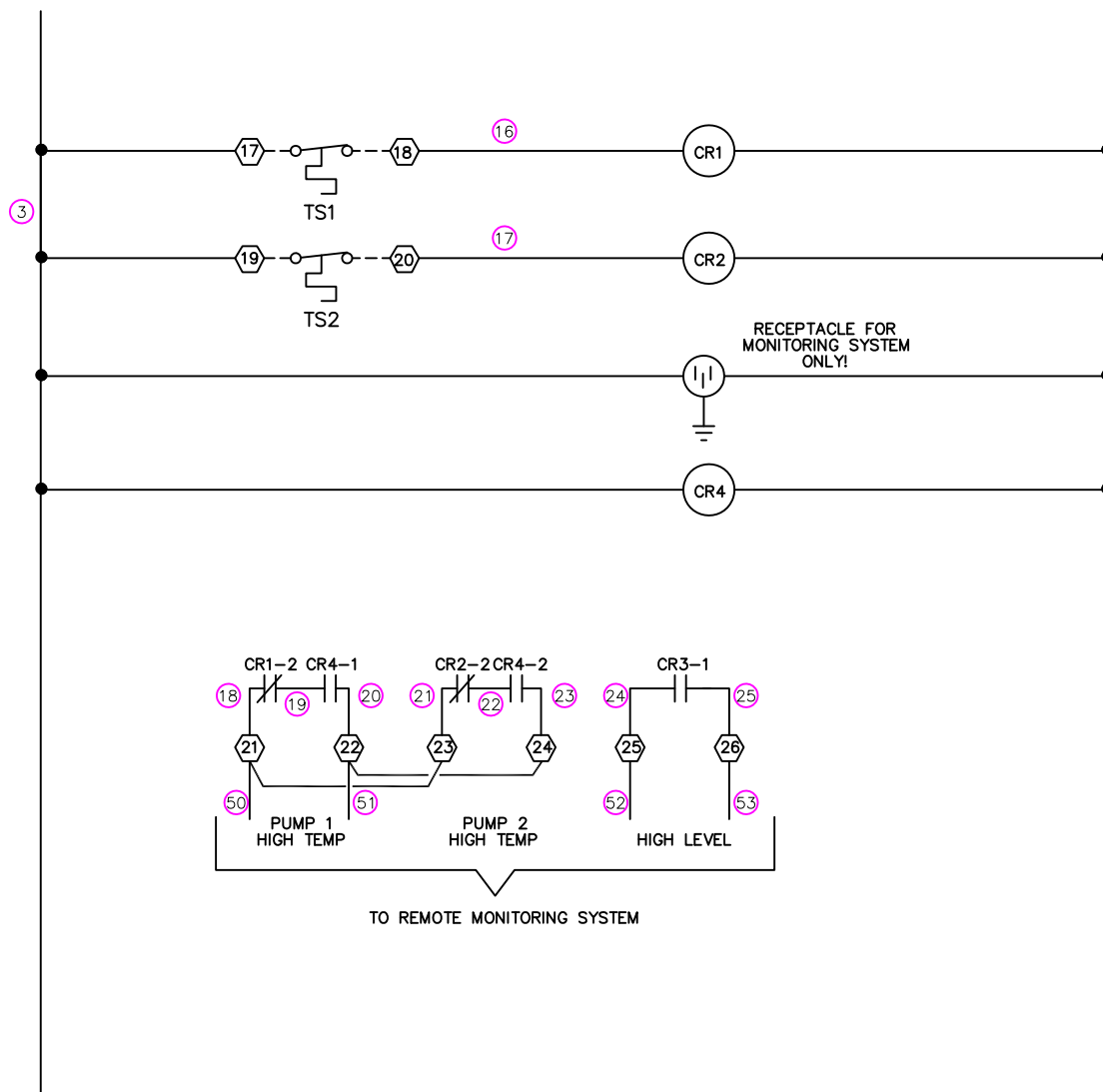
	Drawing Title		R1	10HP REBIULD		11/2/09	HNB
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/2/09		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY J.HEUGHAN	APPROVED BY	DATE
	Project Title	<div style="text-align: center;">  COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1779r1
							SHEET NUMBER 1



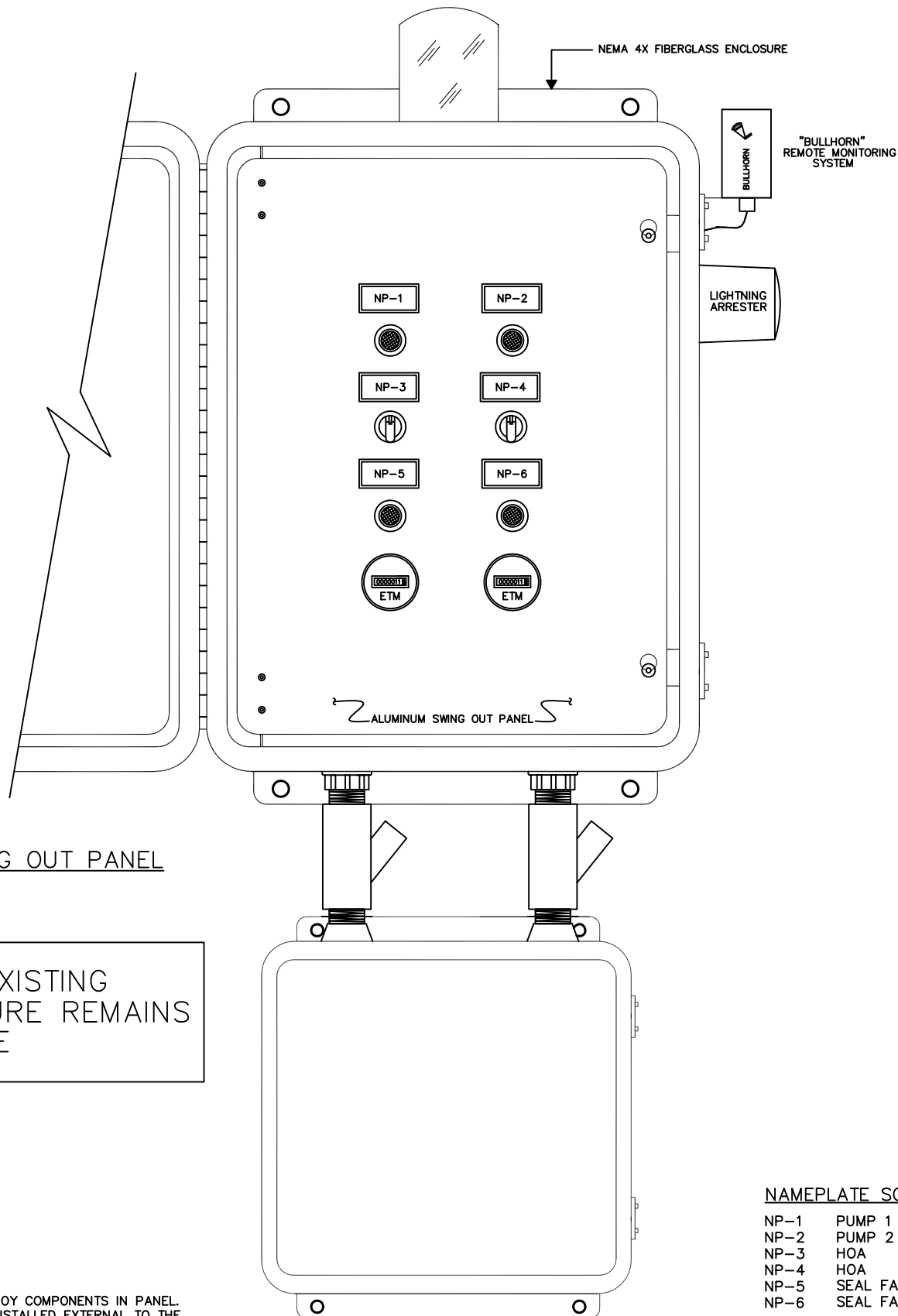
	Drawing Title	R1	10HP REBIULD	11/2/09	HNB
	POWER DIAGRAM				
DATE 11/2/09	Project Title	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DATE BY
	DUPLEX PUMP CONTROL PANEL			BY J.HEUGHAN	APPROVED BY DATE
				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1779r1
					SHEET NUMBER 2



Drawing Title	R1	10HP REBIULD	11/2/09	HNB
CONTROL DIAGRAM				
DATE 11/2/09	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DATE BY
Project Title	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-1779r1 SHEET NUMBER 3
DUPLEX PUMP CONTROL PANEL				



	Drawing Title	R1	10HP REBIULD	11/2/09	HNB
	CONTROL DIAGRAM				
DATE 11/2/09	Project Title	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DATE BY
	DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.		BY J.HEUGHAN	APPROVED DATE
		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
		Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1779r1	
				SHEET NUMBER 4	



	Drawing Title	R1	10HP REBIULD	11/2/09	HNB
	ENCLOSURE				
DATE 11/2/09	Project Title	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DATE BY
	DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	BY J.HEUGHAN	APPROVED DATE
			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
			Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1779r1
					SHEET NUMBER 5

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	HFP2520	SWING PANEL
1a	1	ALLIED	PA2420	BACKPLATE
2	2	ABB	A16NO-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU19	O.L. RELAY (13-19A)
4	2	ABB	T1N030TL	CB1, CB2
5	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY
6	4	ABB	CL513R	RED PILOT LIGHT
7	2	ABB	C3SS110B-20	HOA SWITCH
8	1	ABB	X4150PSF1	TRANSFORMER
9	1	CONERY	R40-XLS	ALARM LIGHT
10	1	DELTA	LA603	LIGHTNING ARRESTER
11	1	TIMEMARK	A257B-480VAC	PHASE MONITOR
12	2	REDINGTON	711-0190	ELAPSED TIME METER
13	1	MARATHON	1323580	DISTRIBUTION BLOCK
14	2	SSAC	LLC-54AA	SEAL FAIL RELAY
15	4	IDEC	RYS2ULAC120	CR1-4
16	1	LEVITON		RECEPTACLE
17	1	AMERICAN INNOVATIONS	BULLHORN	REMOTE MONITOR
18	1	ABB	OT45E3	DISCONNECT
19				
20				
21				
22				
23				
24				
25				

	Drawing Title		R1	10HP REBIULD		11/2/09	HNB
	BILL OF MATERIALS						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/2/09		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY J.HEUGHAN	APPROVED BY DATE	
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> COX <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1779r1 SHEET NUMBER <div style="text-align: right;">6</div>
	Project Title	DUPLEX PUMP CONTROL PANEL					