
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
GEORGE BUSH TURNPIKE

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

CP-1575

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	2.1	
FLA	3.32	
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		

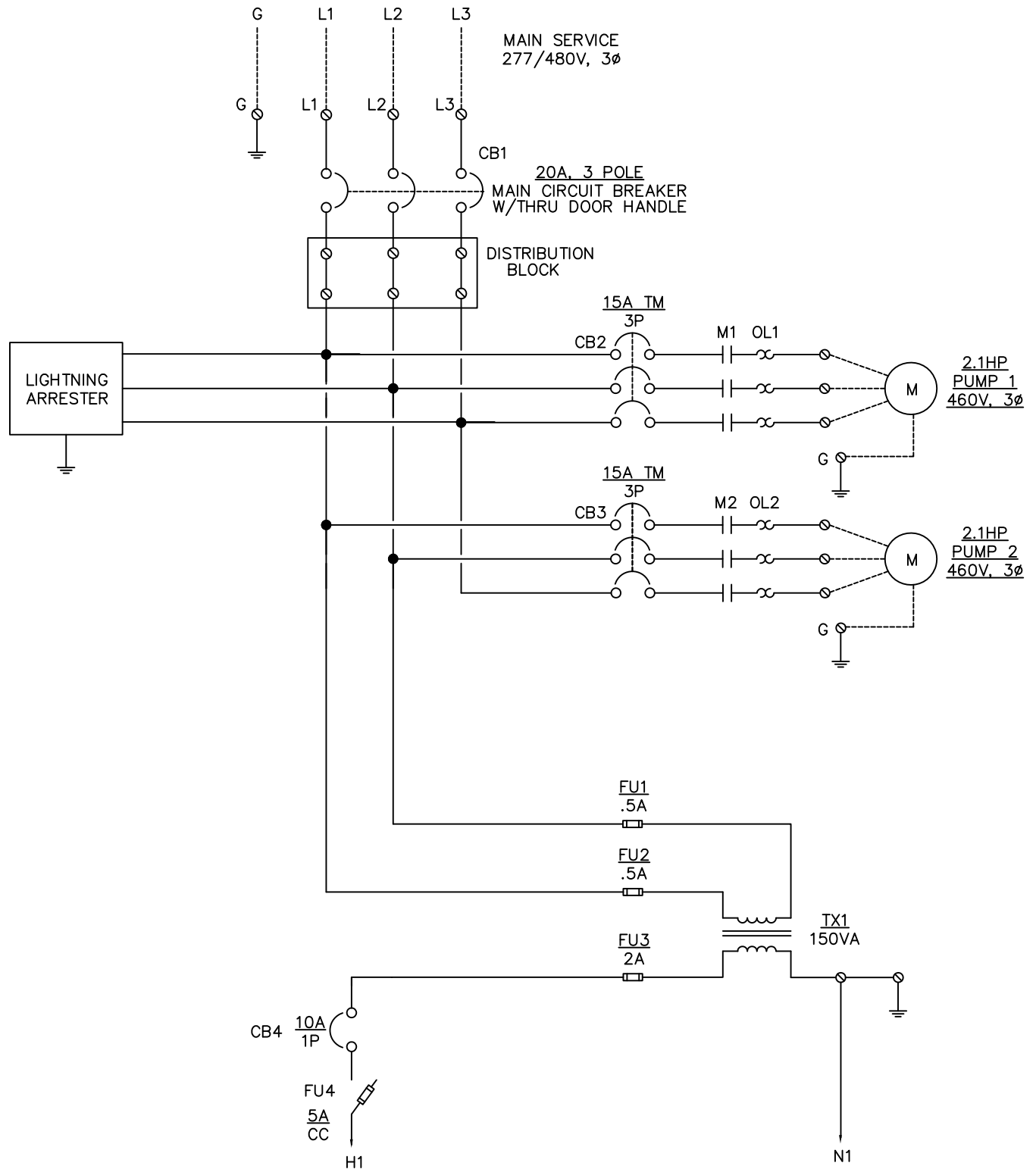
OPTIONS:

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

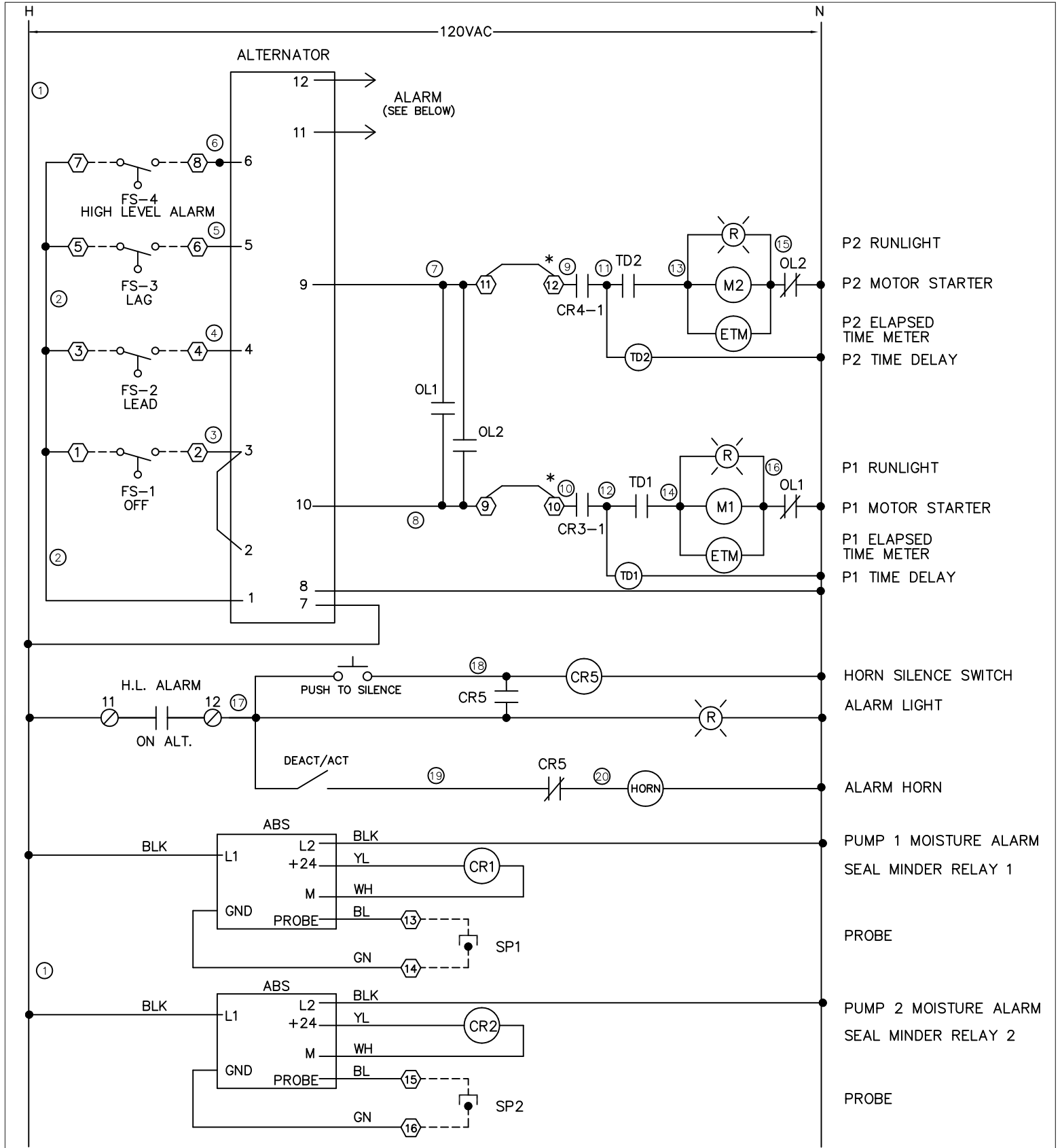
SOLD TO: CF ENGINEERED EQUIPMENT
TAG : GEORGE BUSH TURNPIKE

SHIP TO: DALLAS, TX

	Drawing Title						
	PANEL DESCRIPTION						
DATE 6/03/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1575 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						

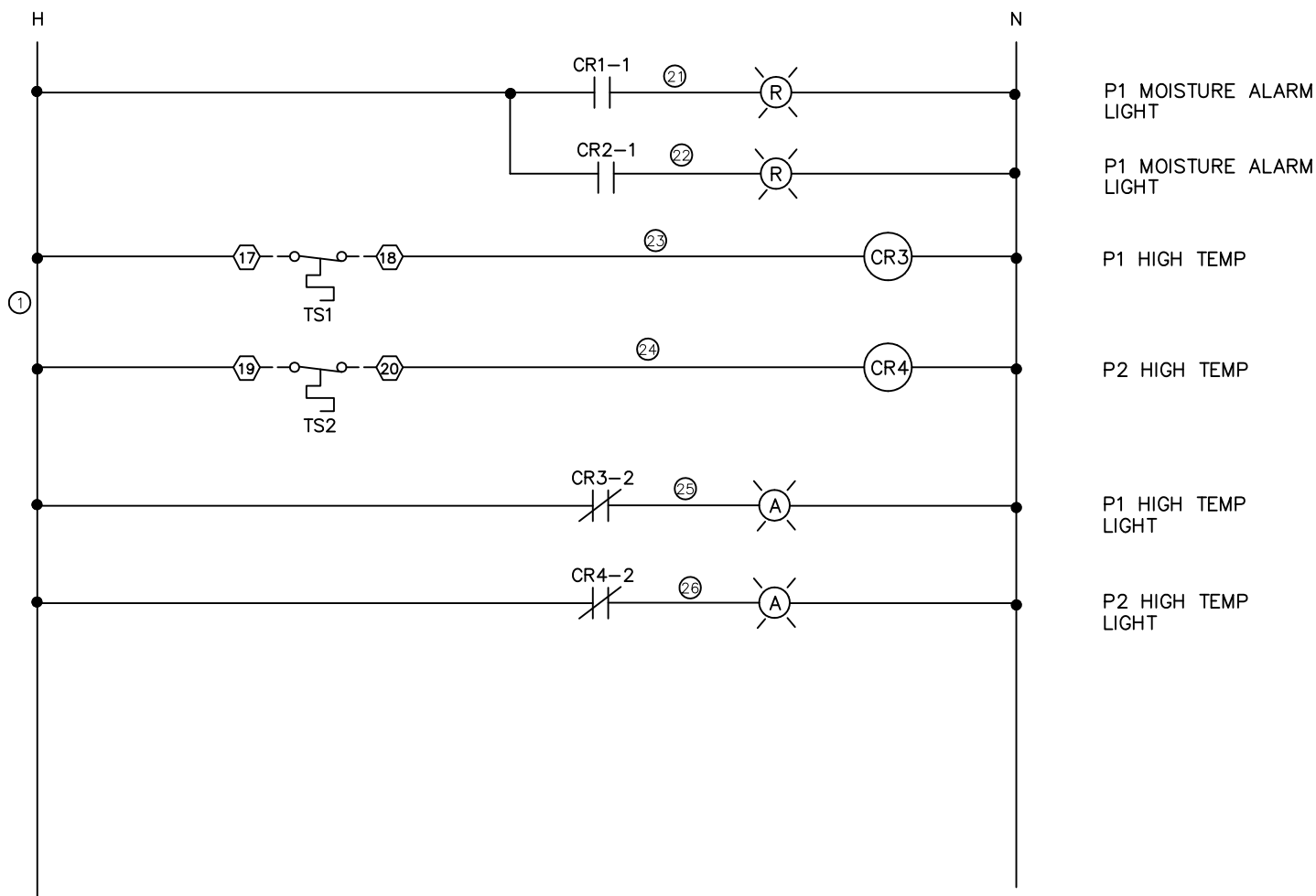


	Drawing Title								
	POWER DIAGRAM								
DATE 6/03/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY	APPROVED
	Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1575			
						SHEET NUMBER 2			

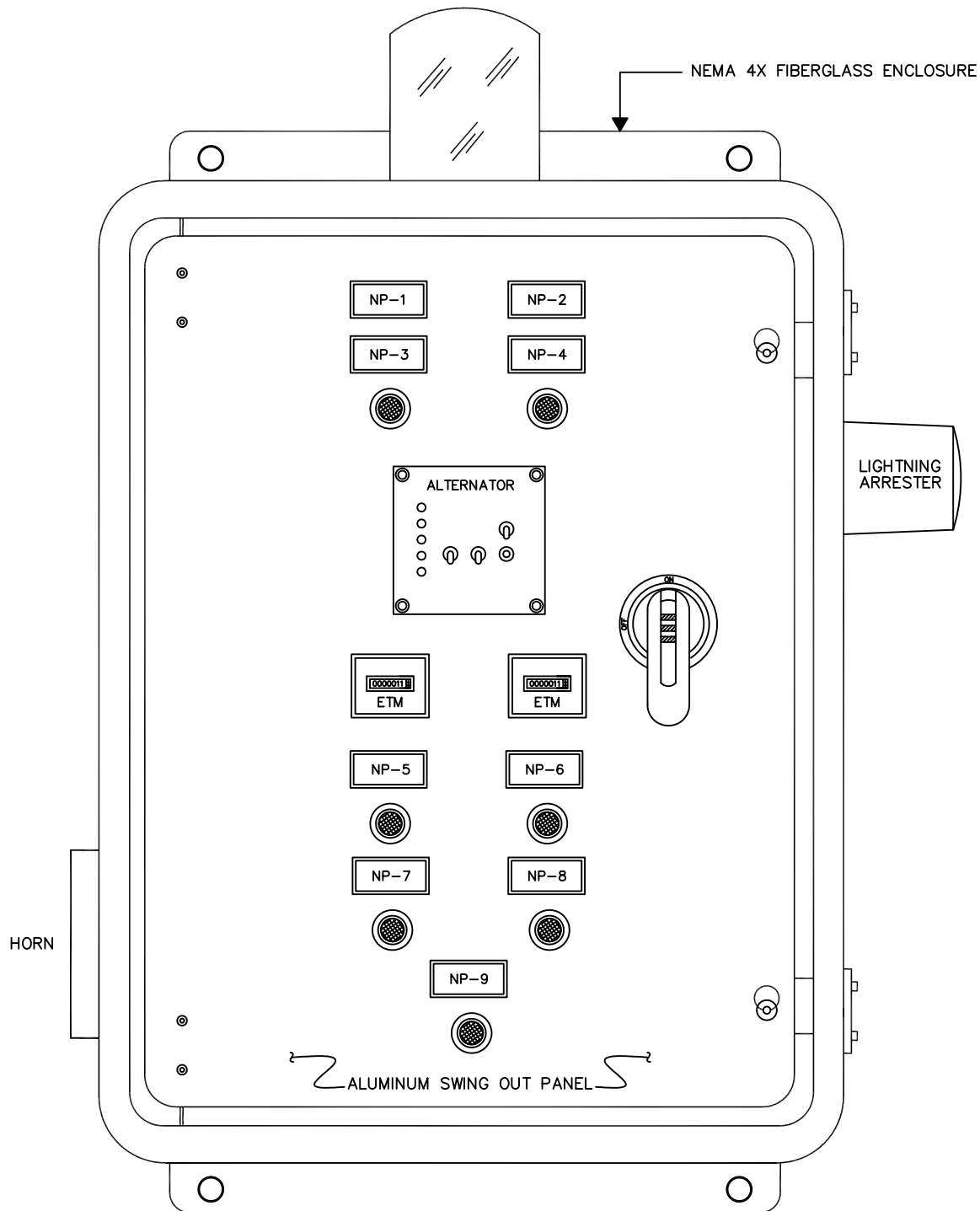


* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title									
CONTROL DIAGRAM									
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	
6/03/03		S/N		Sales Engineer		Application Engineer		DRAWN	
		C.C.		R.C.		BY C. RACHAL		APPROVED	
Project Title								PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL								DRAWING NUMBER	
								CP-1575	
								SHEET NUMBER	
								3	



	Drawing Title							
	CONTROL DIAGRAM							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
6/03/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED		
	Project Title				PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER CP-1575		
					Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER		4



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	MOISTURE
NP-6	MOISTURE
NP-7	HIGH TEMP
NP-8	HIGH TEMP
NP-9	HORN SILENCE

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

DATE 6/03/03	Drawing Title							
	ENCLOSURE							
	Project Title	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
	DUPLEX PUMP CONTROL PANEL	S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	DATE	
		COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
		Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1575		
						SHEET NUMBER 5		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL	ENCLOSURE
1a	1	ALLIED	A2420P	BACKPLATE
1b	1	ALLIED	A2420SP	DEAD FRONT
2	1	ABB	S1N020TL	CB1
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU4.0	O.L. RELAY (2.8-4.0A)
5	2	ABB	S1N015TL	CB2, CB3
6	1	DIVERSIFIED	ARM-120-ACEP	ALTERNATING RELAY (ISR)
7	4	ACI	JR22FR	RED PILOT LIGHT W/LED BULB
8	1	SQUARE D	9070TF150D1	TRANSFORMER
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	2	REDDINGTON	5120-2200	ELAPSED TIME METER
11	2	ABS	61240170	SEAL FAIL RELAY
12	2	ACI	JR22FY	AMBER PILOT LIGHT W/LED BULB
13	1	SQUARE D	QOU110	CB4
14	1	DELTA	LA603	LIGHTNING ARRESTER
15	2	OMRON	G2R2SAC24	CR 1,2
16	3	OMRON	G2R2SAC120	CR 3,4,5
17	1	EDWARDS	870P-N5	HORN
18	1	ACI	JR22AN11B	PUSH BUTTON
19	1	ABB	K2VD-M	THRU DOOR MECHANISM
20	1	ABB	OXF10X225	SHAFT
21	1	ABB	OHB45L10	HANDLE
22	2	DAYTON	5YZ85	TIME DELAY RELAY
23	1	MARATHON	1323570	DISTRIBUTION BLOCK
24				

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	BILL OF MATERIALS						
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	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> 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-1575 SHEET NUMBER <div style="text-align: right;">6</div>
	DUPLEX PUMP CONTROL PANEL						