

---

---

# COX

Research and Technology, Inc.

---

---

DUPLEX PUMP  
CONTROL PANEL  
FLOW EQUALIZATION

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

CP-1403

VOLTAGE	<u>120</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>1/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>1/2</u>	
FLA	<u>10.4A</u>	
TYPE OF PUMP	<u>Submersible</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>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></u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	


OPTIONS:

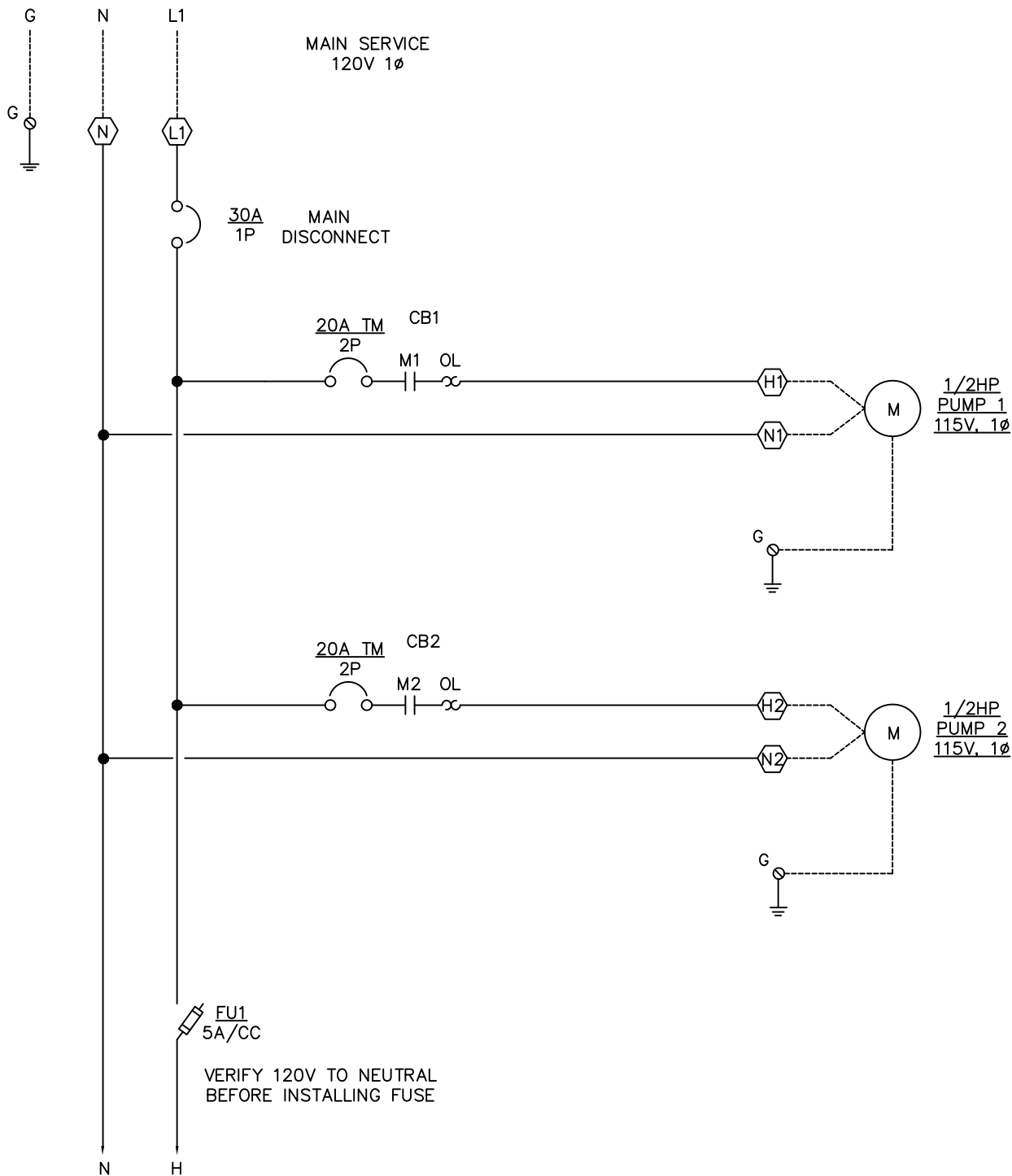
SEAL FAIL LIGHTS	<u></u>	(Submersible Only)
SEAL FAIL RELAYS	<u></u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u></u>	(Submersible Only)
HT PUMP SHUTDOWN	<u></u>	(Self-Primer, Submersible)
ALARM HORN	<u></u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD	<u></u>	
LIGHT FLASHER	<u></u>	
LIGHTNING ARRESTER	<u></u>	
ELAPSED TIME METER	<u>X</u>	
PHASE MONITOR	<u></u>	
NEMA RATED STARTERS	<u></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: Delta Environmental - Denham Springs, LA

TAG : Flow Equalization

SHIP TO: Delta Environmental - Denham Springs, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 5/22/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	DATE
	Project Title	<div style="text-align: center;">   <b>COX</b>  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-1403
							SHEET NUMBER 1



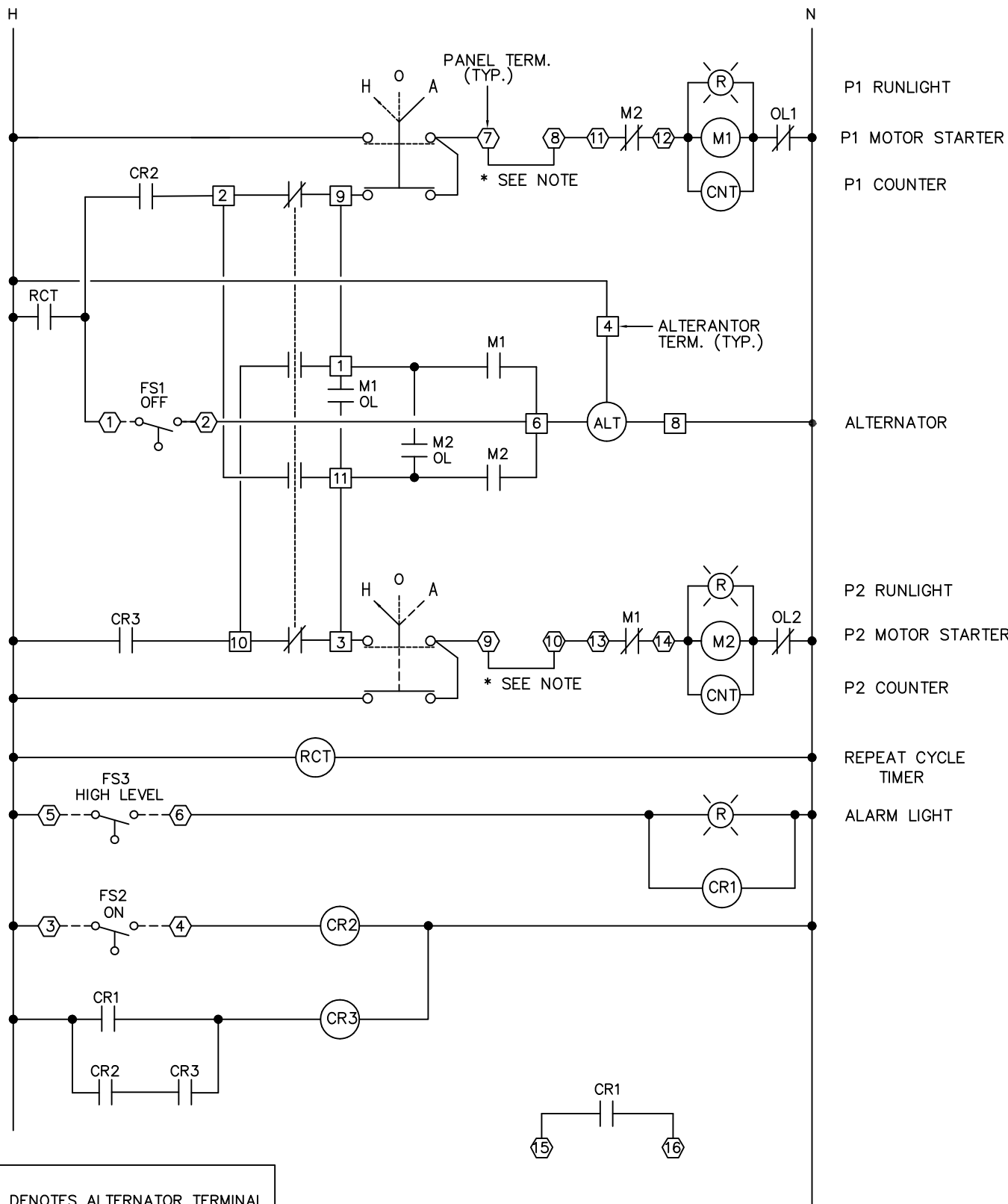
	Drawing Title							
	POWER DIAGRAM							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
5/22/02		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY	CTR	APPROVED	
	Project Title							PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-1403
								SHEET NUMBER 2

**COX**

Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

Ph. (225)756-3271  
Fax (225)756-1030



- [X] DENOTES ALTERNATOR TERMINAL
- [X] DENOTES PANEL TERMINAL
- DENOTES FIELD WIRING

\* REMOVE JUMPERS & INSTALL LOCKOUT DEVICES IF REQ'D

Drawing Title	CONTROL DIAGRAM					
DATE 5/22/02						
Project Title	DUPLEX PUMP CONTROL PANEL					
REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		BY	DATE
			BY		CTR	DATE
					PURCHASE ORDER NUMBER	
					DRAWING NUMBER CP1403	
					SHEET NUMBER 3	

COX

Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

Ph. (225)756-3271  
Fax (225)756-1030



# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	SQD	QOU130	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU11	O.L. RELAY (7.5-11A)
5	2	SQUARE D	QOU120	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	2	REDINGTON	V2-4816-115VAC	COUNTERS
11	1	OMRON	H3CRF8300	RCT
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title							
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>							
DATE 5/22/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	DATE	BY
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> <h1 style="margin: 0;">COX</h1> </div> <p style="margin: 0;">Research and Technology, Inc.</p>		<p style="margin: 0;">P.O. Box 77808 Baton Rouge, LA 70809</p> <p style="margin: 0;">Ph. (225)756-3271 Fax (225)756-1030</p>		<p style="margin: 0;">PURCHASE ORDER NUMBER</p> <hr/> <p style="margin: 0;">DRAWING NUMBER CP-1403</p> <hr/> <p style="margin: 0;">SHEET NUMBER</p>		
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> <h1 style="margin: 0;">COX</h1> </div> <p style="margin: 0;">Research and Technology, Inc.</p>		<p style="margin: 0;">P.O. Box 77808 Baton Rouge, LA 70809</p> <p style="margin: 0;">Ph. (225)756-3271 Fax (225)756-1030</p>		<p style="margin: 0;">PURCHASE ORDER NUMBER</p> <hr/> <p style="margin: 0;">DRAWING NUMBER CP-1403</p> <hr/> <p style="margin: 0;">SHEET NUMBER</p>		
	DUPLEX PUMP CONTROL PANEL					5		