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# COX

Research and Technology, Inc.

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IRRIGATION MART  
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	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	15,10	
FLA	21,14	
TYPE OF PUMP	Above Ground	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Start Stop PB	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

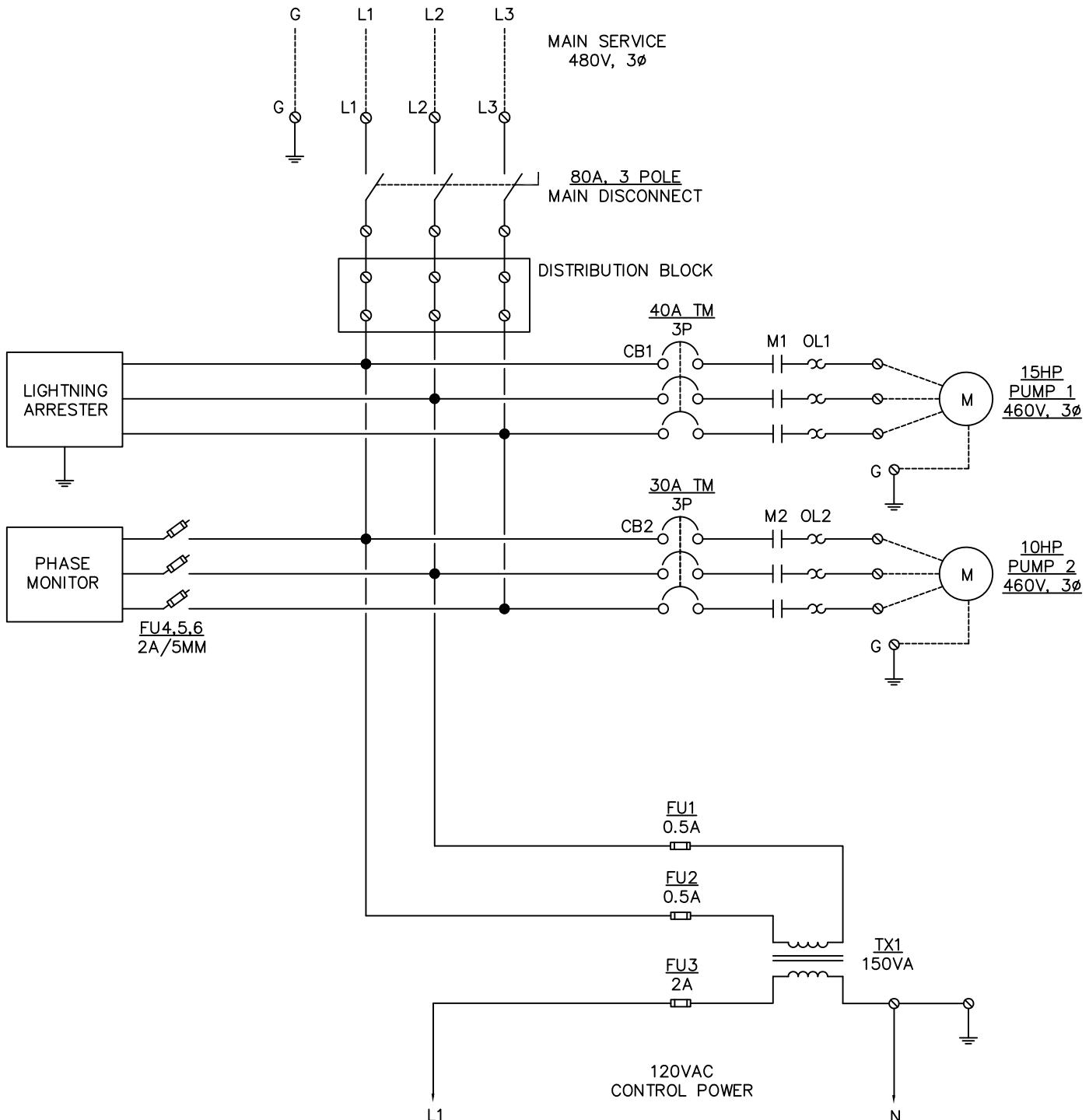
## OPTIONS:

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

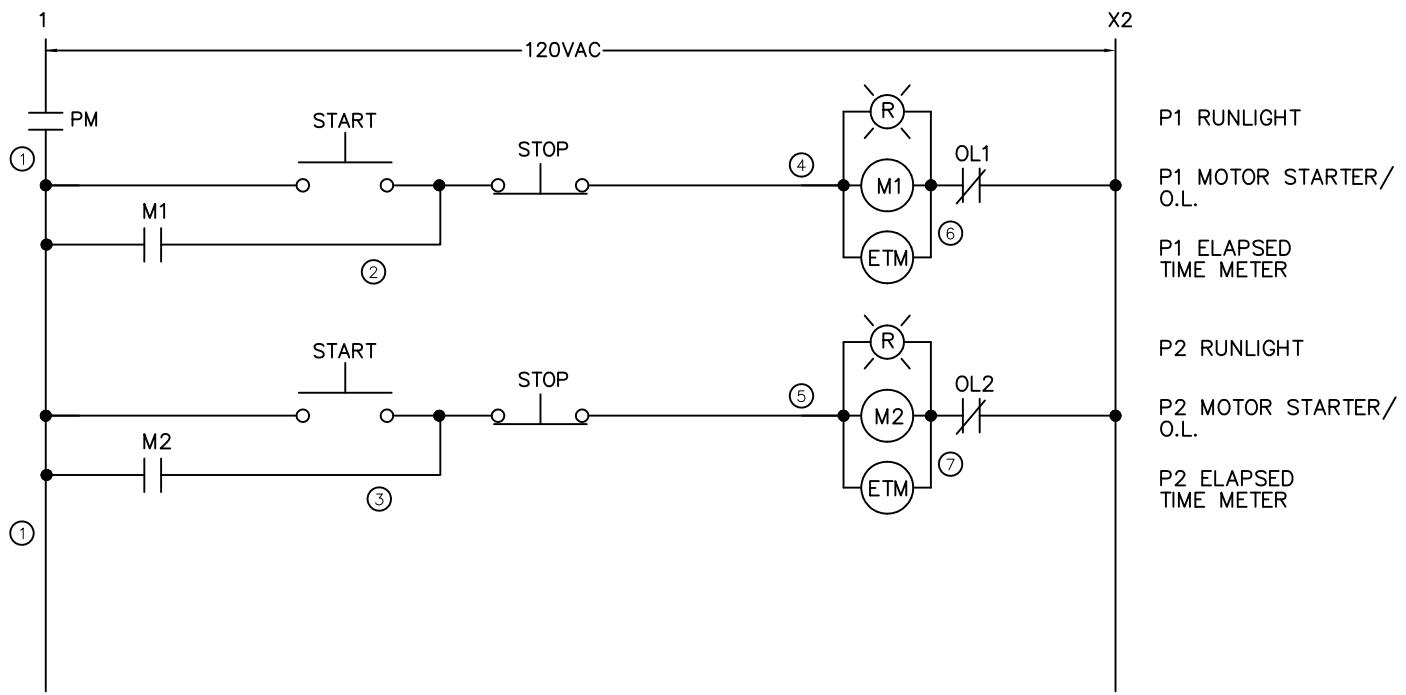
**SOLD TO:** Irrigation Mart  
**TAG :** Jackie Robbins

SHIP TO: Mid South Lumber Attn: Buddy Breland  
1115 C Street  
Meridian, MS 39302

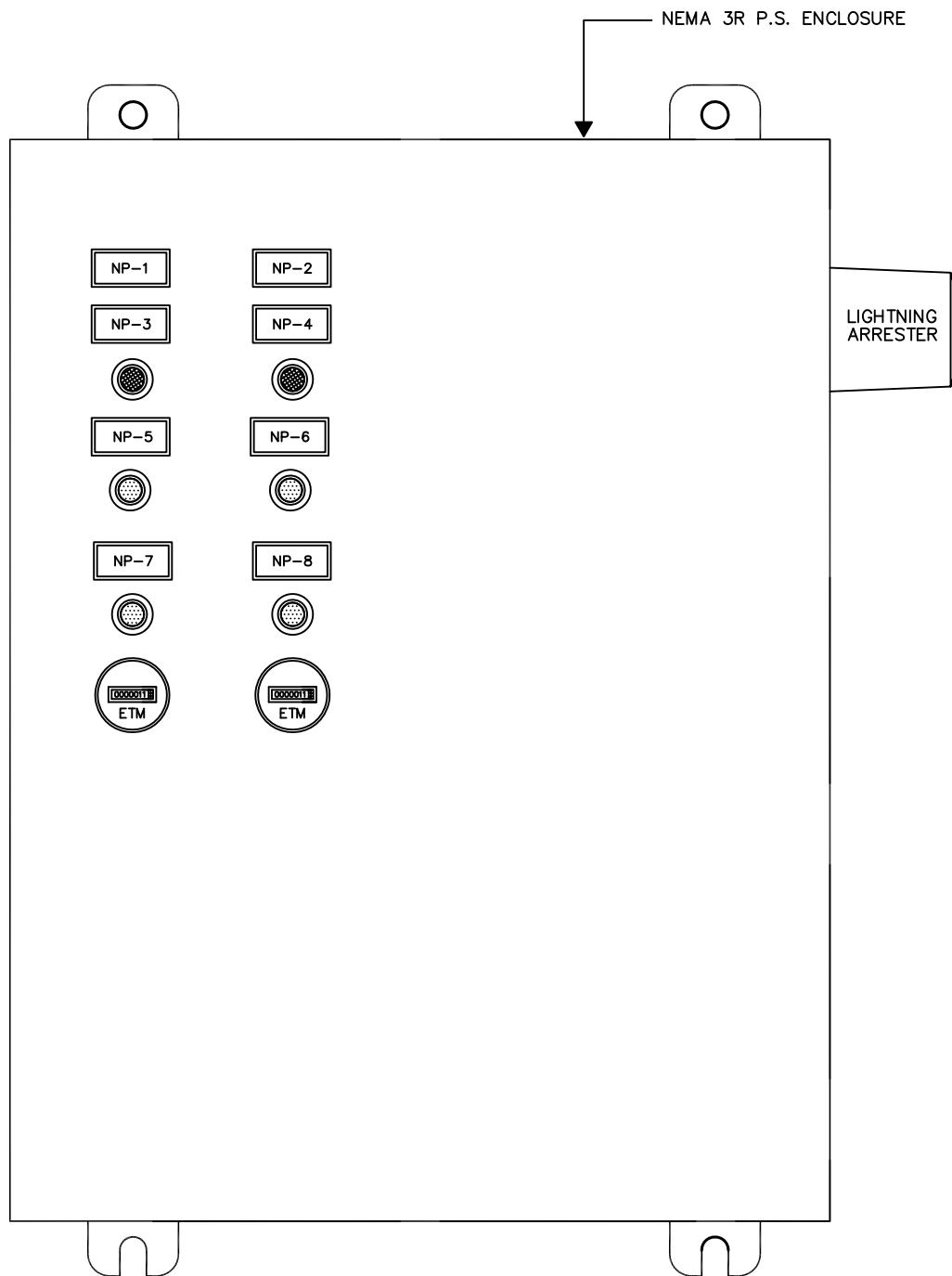
	Drawing Title  <b>PANEL DESCRIPTION</b>  DATE 1/09/04					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1731		
				SHEET NUMBER 1		



	Drawing Title					
	POWER DIAGRAM					
DATE 1/09/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
	Project Title					
	DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1731	
					SHEET NUMBER 2	



	Drawing Title					
	CONTROL DIAGRAM					
DATE 1/09/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	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 CP-1731 SHEET NUMBER 3		



FRONT VIEW

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	START
NP-6	START
NP-7	STOP
NP-8	STOP

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

DATE 1/09/04	Drawing Title  ENCLOSURE	REFERENCE DRAWING			NO. C.C.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer		DRAWN BY C. RACHAL	APPROVED BY DATE			
	Project Title  DUPLEX PUMP CONTROL PANEL									

**COX**  
Research and Technology, Inc.

P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER
Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1731
	SHEET NUMBER 4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	30248REPL	ENCLOSURE
1a	1	EBE	3024P	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26-30-10-84	MOTOR STARTER
4	1	ABB	TA25DU25	O.L. RELAY (18-25A)
5	1	ABB	S1N040TL	CB1
6	1	ABB	S1N030TL	CB2
7	2	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22AN11R	PUSH BUTTON RED
9	1	SQUARE D	9070TF150D1	TRANSFORMER
10	2	ACI	JR22AN11G	PUSH BUTTON GREEN
11	1	C-H	CHSA03	LIGHTNING ARRESTER
12	1	SSAC	PLMU-11	PHASE MONITOR
13	2	MCMASTER	1672T22	ELAPSED TIME METER
14	1	ABB	TA25DU19	O.L. RELAY (13-19A)
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title  <b>BILL OF MATERIALS</b>					
DATE 1/09/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	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-1731 SHEET NUMBER 5	