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# COX

Research and Technology, Inc.

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## WOODRIDGE LIFT STATION #2 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	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	7.5	
FLA	22	
TYPE OF PUMP	S. P.	(Self-Priming, Submersible)
MANUFACTURER	GORMAN RUDD	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	FLOATS	(FLOATS, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

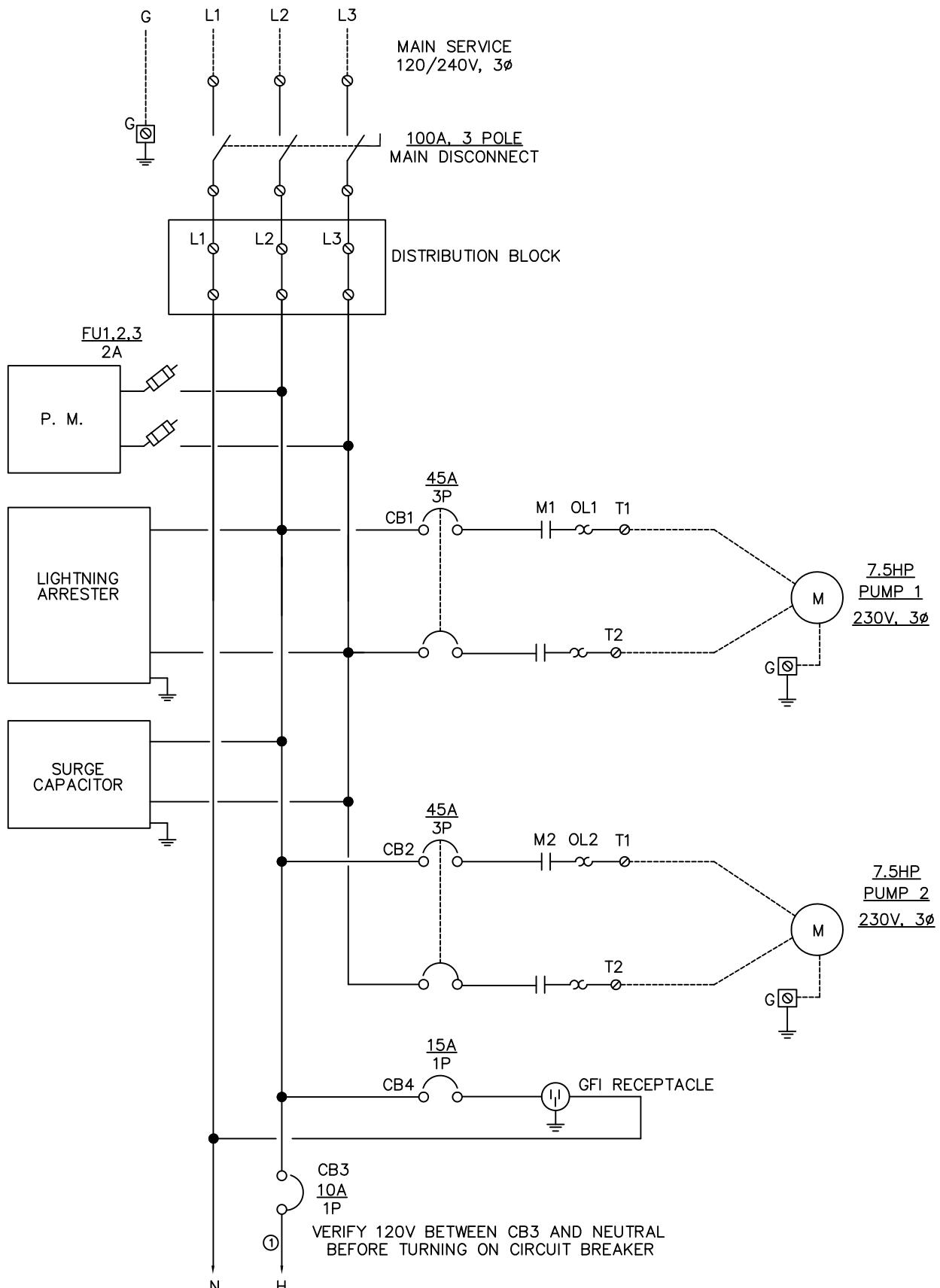
OPTIONS:

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

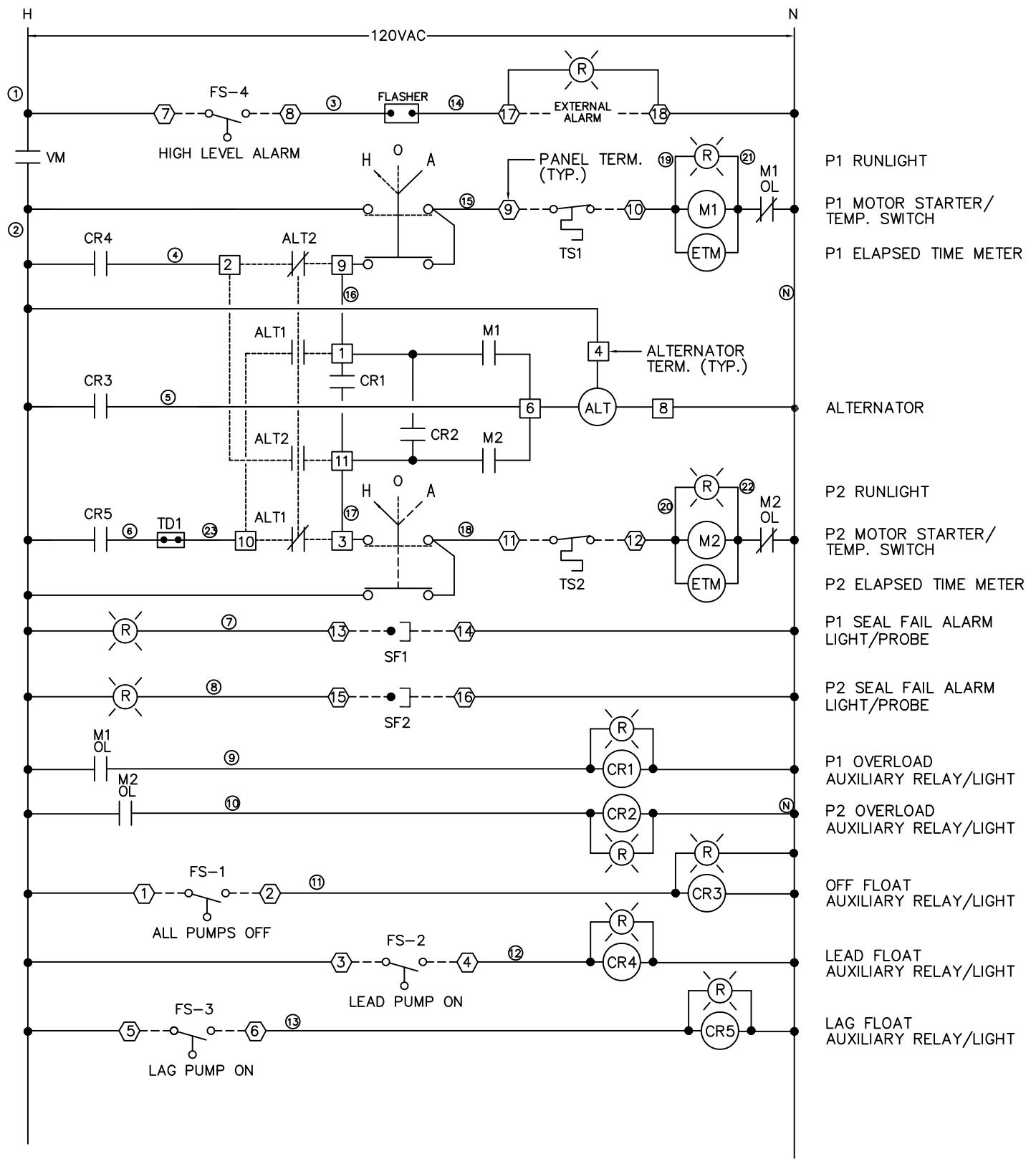
SOLD TO: Delta Process - New Orleans, LA  
 TAG : La Water Versailles

SHIP TO: Delta Process - Ruston, LA

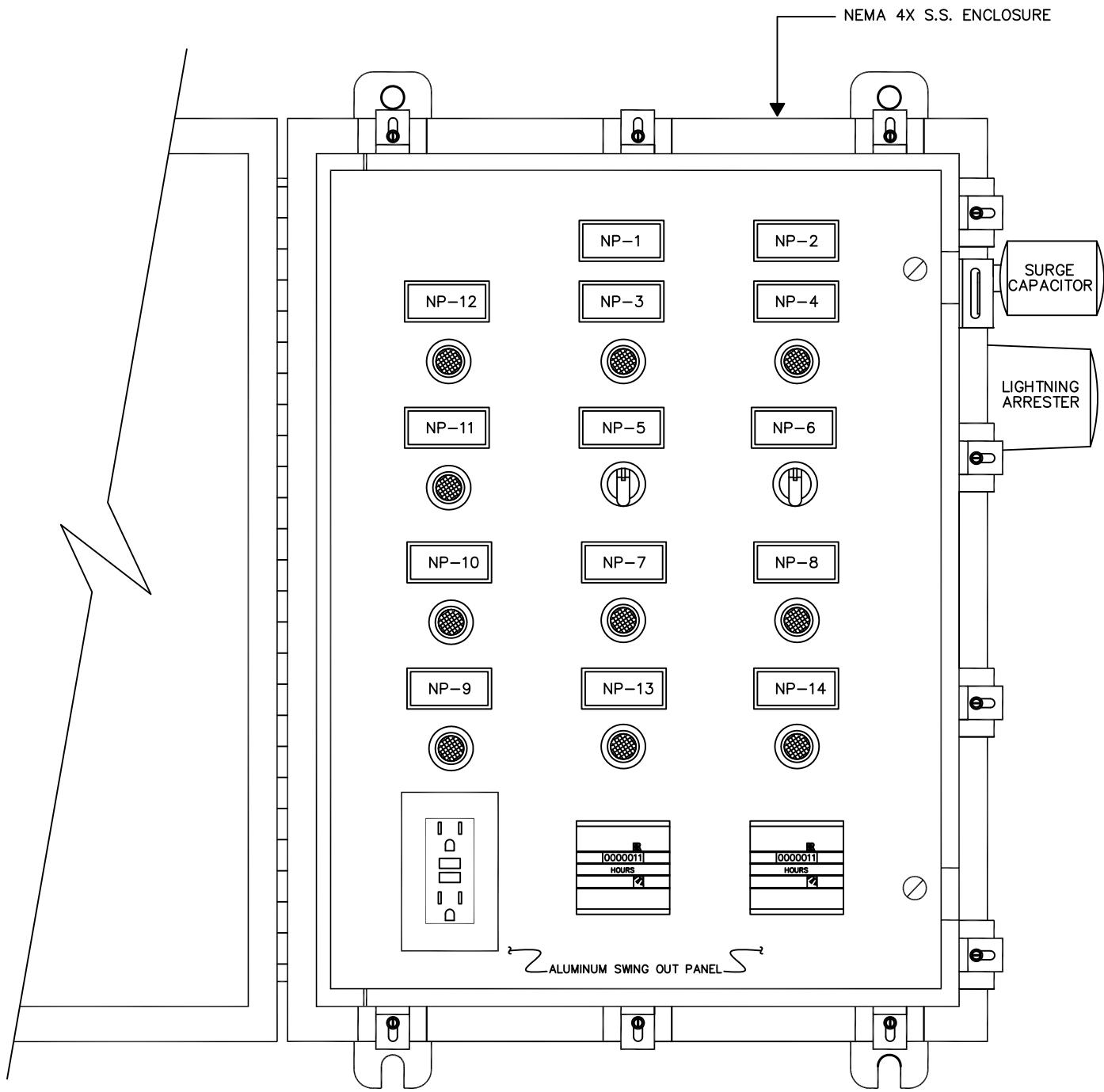
	Drawing Title							
	PANEL DESCRIPTION							
DATE 09/08/06			REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	
	Project Title  DUPLEX PUMP CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2451	
							SHEET NUMBER 1	



	Drawing Title						
	POWER DIAGRAM						
DATE 09/08/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY	
			BY C. RACHAL	BY	APPROVED	DATE	
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)755-1030		DRAWING NUMBER CP-2451		
			SHEET NUMBER 2				



	Drawing Title  CONTROL DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN DATE BY
DATE 4/27/06				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 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2371 SHEET NUMBER 3



### VIEW OF SWING OUT PANEL

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1	NP-9	ALL PUMPS OFF
NP-2	PUMP 2	NP-10	LEAD PUMP ON
NP-3	RUN	NP-11	LAG PUMP ON
NP-4	RUN	NP-12	HIGH LEVEL ALARM
NP-5	HOA	NP-13	SEAL FAIL
NP-6	HOA	NP-14	SEAL FAIL
NP-7	O.L. TRIP		
NP-8	O.L. TRIP		

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

	Drawing Title					
	ENCLOSURE					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 4/27/06	S/N	Sales Engineer	Application Engineer	DRAWN BY C. RACHAL	APPROVED BY	DATE
	C.C.		R.C.			
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER	CP-2371
					SHEET NUMBER	4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	I-302410ST4X	ENCLOSURE
1a	1	C & I	C-3024P	BACKPLATE
1b	1	C & I	C-3024SPA	DEAD FRONT
2	1	MARATHON	1323580	DISTRIBUTION BLOCK
3	2	SQUARE D	8536SC01V02	MOTOR STARTER
4	4	SQUARE D	B15.5	HEATER PACKS
5	2	SQUARE D	QOU220	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	10	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	DELTA	CA302R	SURGE CAPACITOR
10	1	DELTA	LA302R	LIGHTNING ARRESTER
11	1	ABB	OT63E3	DISCONNECT SWITCH
12	2	REDINGTON	711-0190	ELAPSED TIME METER
13	1	DIVERSIFIED	UOA-240-AFA	VOLTAGE MONITOR
14	1	SSAC	FS126RC	FLASHER
15	1	DAYTON	2A561	TIME DELAY
16	1	IRL	IR-VPA-150-1-RG-GC-C	REMOTE ALARM LT.
17	2	SQUARE D	9999S04	AUX.O/L CONTACTS
18	1	SQUARE D	QOU110	CB3
19	1	SQUARE D	QOU115	CB4
20	1	STOCK		GFI RECEPTACLE
21	5	IDECA	RY2SUAC120V	RELAYS
22				
23				
24				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 4/27/06			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		 <b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER  P.O. Box 77808 Baton Rouge, LA 70809  DRAWING NUMBER CP-2371  SHEET NUMBER 5			
	DUPLEX PUMP CONTROL PANEL								