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# COX

Research and Technology, Inc.

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## HILTON PASTURE DUPLEX PUMP CONTROL PANEL

### FIELD REVISIONS

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January 30, 2015

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

CP-2205R2

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>34</u>	
FLA	<u>41.8</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>GR</u>	
CATALOG NUMBER	<u>JS6E60-E34</u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 3R</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Painted Steel</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Submersible Transducer</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE		

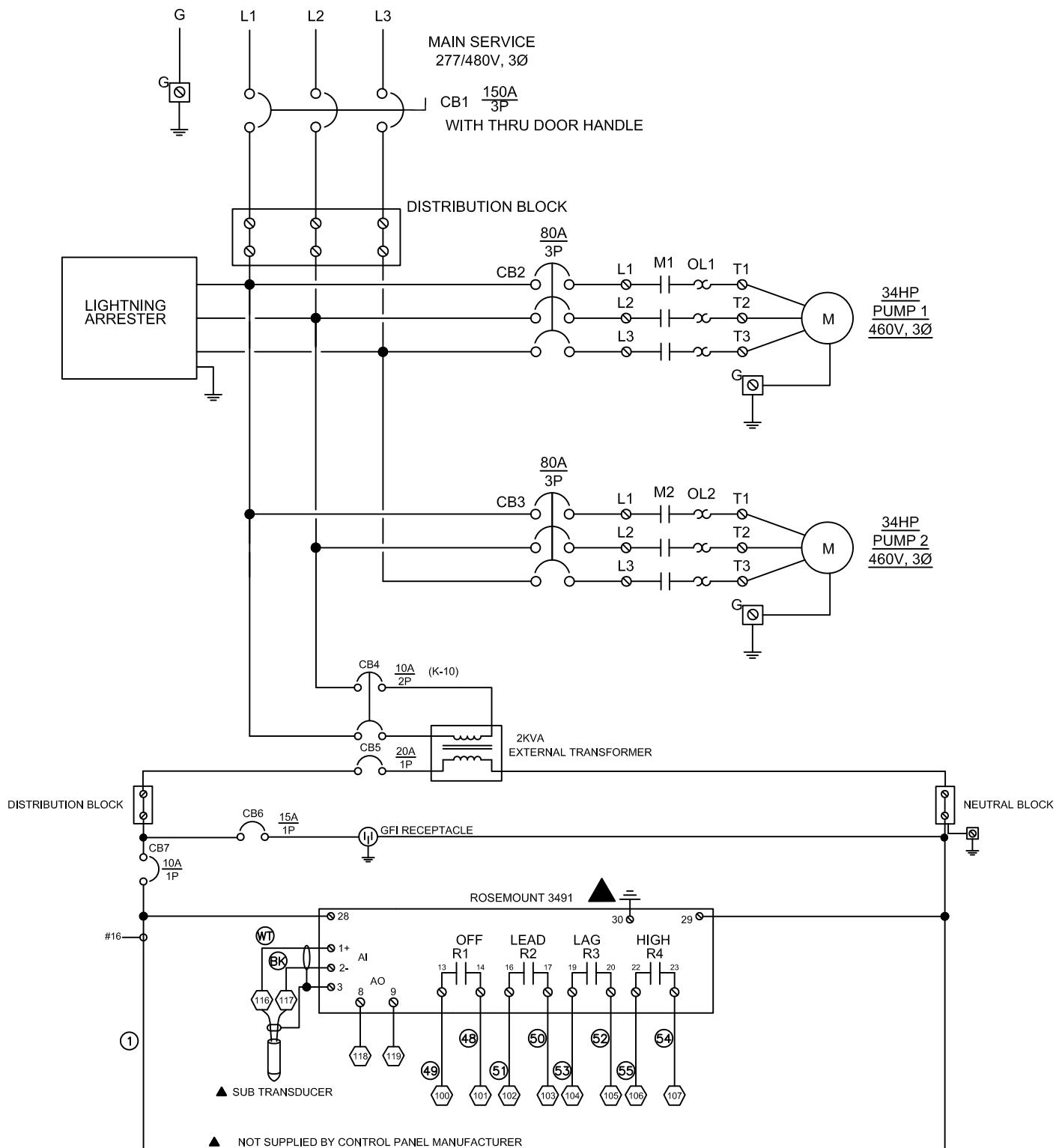
OPTIONS:

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

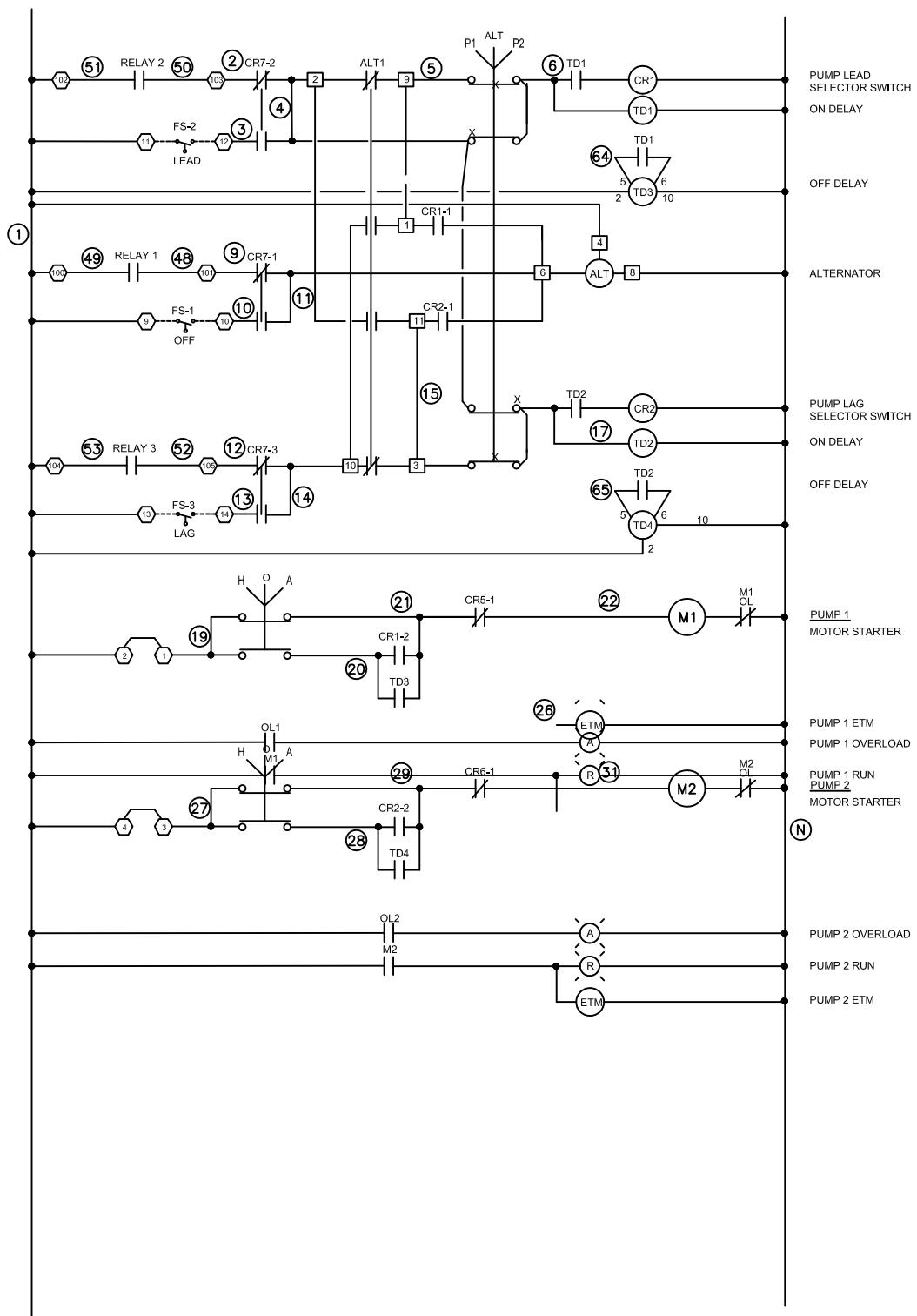
SOLD TO: Delta Process - Ruston, LA  
TAG : Hilton Pasture

SHIP TO: Delta Process - Ruston, LA

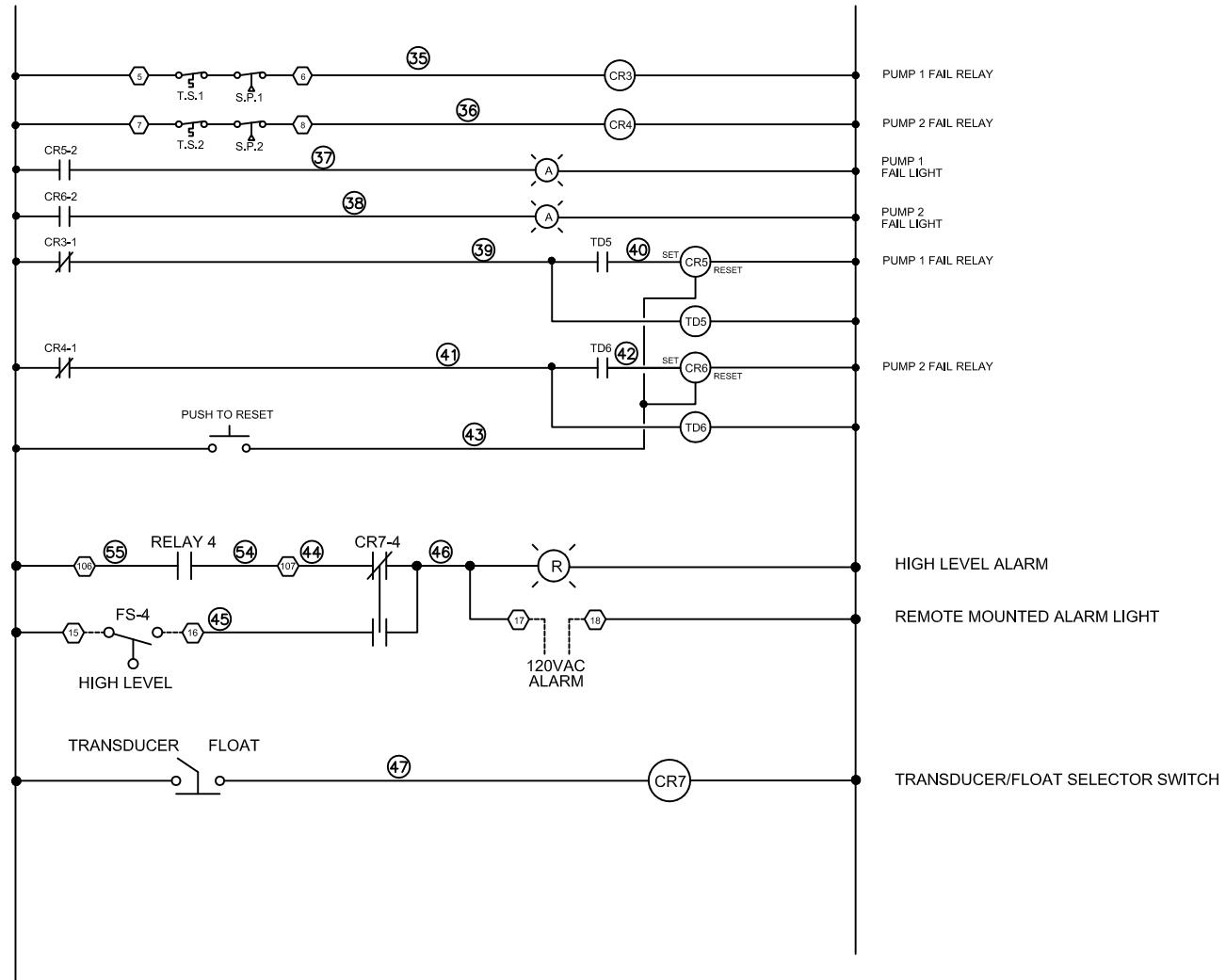
Drawing Title	PANEL DESCRIPTION								
		2	CHANGED CONTROLLER	01/30/15	SG				
DATE 01/30/15	REFERENCE DRAWING	1	LIGHTNING ARRESTER	5/30/06	TL				
		NO.	REVISION-LOCATION	ECN	DATE BY				
S/N	Sales Engineer	Application Engineer	DRAWN			APPROVED			
	C.C.	R.C.	BY B.V.	BY	DATE				
Project Title	DUPLEX PUMP 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)755-1030	DRAWING NUMBER CP-2205R2				
					SHEET NUMBER 1				



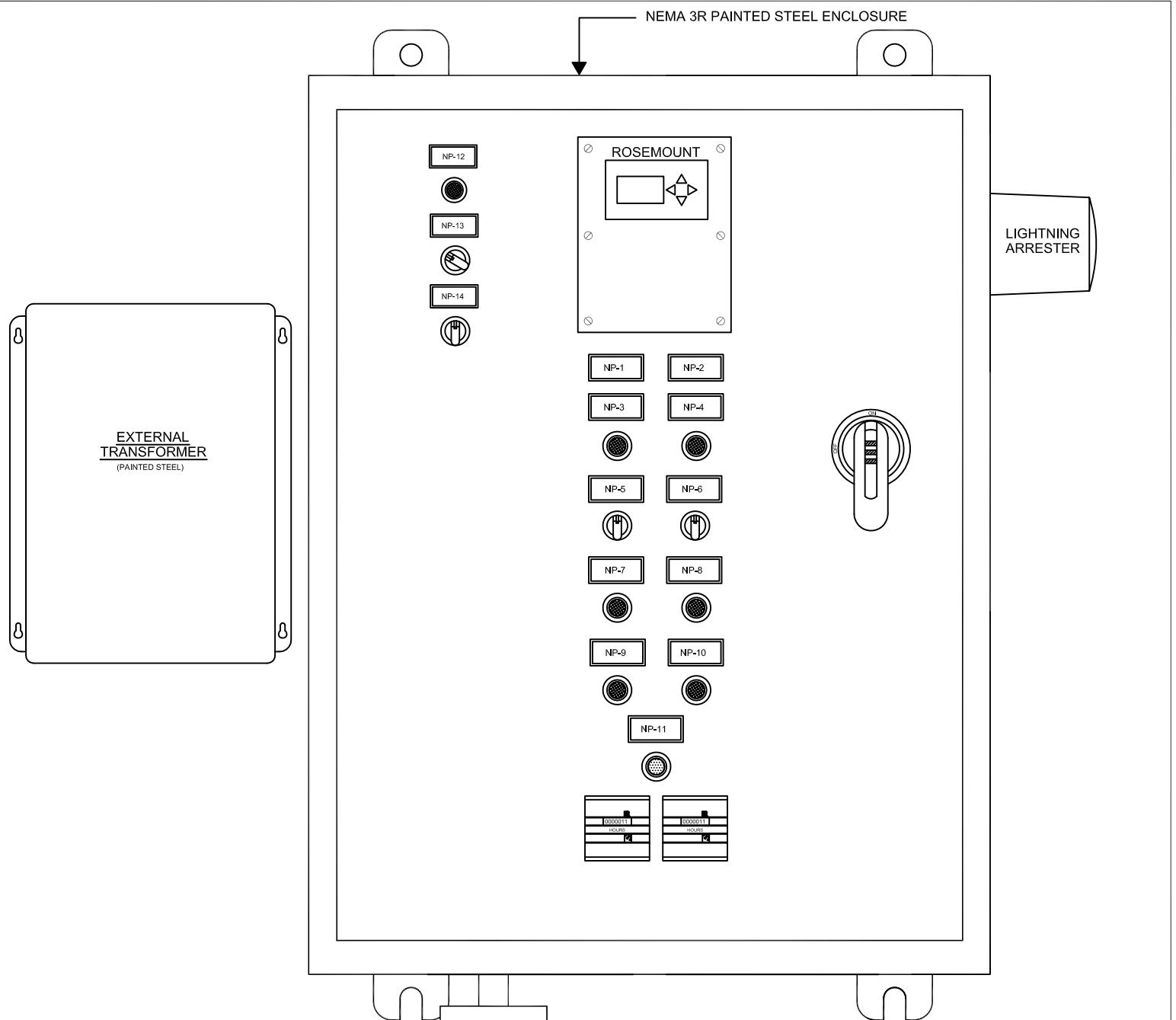
	Drawing Title							
	POWER DIAGRAM				2 CHANGED CONTROLLER		01/30/15 SG	
					1 LIGHTNING ARRESTER		5/30/06 TL	
DATE 01/30/15	REFERENCE DRAWING S/N	Sales Engineer C.C.	Application Engineer R.C.	REVISION-LOCATION DRAWN BY B.V.		ECN	DATE APPROVED BY DATE	
	Project Title <b>DUPLEX PUMP CONTROL PANEL</b>		<b>COX</b> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2205R2 SHEET NUMBER 2		



	Drawing Title  CONTROL DIAGRAM				
		2	CHANGED CONTROLLER	01/30/15	SG
		1	LIGHTNING ARRESTER	5/30/06	TL
DATE 01/30/15	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY B.V.	DATE 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-2205R2 SHEET NUMBER 3



	Drawing Title						
	CONTROL DIAGRAM			2	CHANGED CONTROLLER		01/30/15 SG
				1	LIGHTNING ARRESTER		5/30/06 TL
DATE 01/30/15	REFERENCE DRAWING S/N	Sales Engineer C.C.	Application Engineer R.C.	NO.	REVISION-LOCATION DRAWN BY B.V.	ECN	DATE BY
						APPROVED BY DATE	
	Project Title		COX Research and Technology, Inc.			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL					DRAWING NUMBER CP-2205R2	
						SHEET NUMBER 4	



#### NAMEPLATE SCHEDULE

NP-1	PUMP 1	NP-9	PUMP FAIL
NP-2	PUMP 2	NP-10	PUMP FAIL
NP-3	RUN	NP-11	PUMP FAIL RESET
NP-4	RUN	NP-12	HIGH WATER
NP-5	HOA	NP-13	TRANSDUCER/FLOATS
NP-6	HOA	NP-14	P1-ALT-P2
NP-7	OVERLOAD		
NP-8	OVERLOAD		

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

DATE 01/30/15	Drawing Title <b>ENCLOSURE</b>						
		2	CHANGED CONTROLLER	1	LIGHTNING ARRESTER	01/30/15	SG
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
	C.C.	R.C.	BY B.V.	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)755-1030	DRAWING NUMBER CP-2205R2	
						SHEET NUMBER 5	

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	C-363016RHPL	ENCLOSURE
1a	1	C & I	CI-3630P	BACKPLATE
1a	1	C & I	CI-3630SPA	SWING PANEL
2	1	ABB	S3N150TW	MAIN DISC. SWITCH
3	2	ABB	A50N2-30-11-84	CONTACTORS
4	1	A-B	800H-HR2A	2 POSITION SWITCH
5	2	ABB	T1N080TL	CB2,3
6	1	SQUARE D	2S1F	TRANSFORMER
7	1	TIMEMARK	261DT120	ALTERNATING RELAY
8	3	A-B	800H-QR10R	RED PILOT LIGHT
9	2	A-B	800H-JR2A	HOA SWITCH
10	1	ABB	K5-VDM	MECHANISM
11	1	ABB	OXP10X225	SHAFT
12	1	ABB	OHB95J10	HANDLE
13	1	BUSSMAN	16332-3	DISTRIBUTION BLOCK
14	1	ABB	S202UP-K10	CB4
15	4	A-B	800H-QR10A	AMBER PILOT LIGHT
16	2	REDINGTON	711-0190	ELAPSED TIME METER
17	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
18	1	A-B	800H-AR2A	PUSH BUTTON
19	1	ROSEMOUNT	3491	LIQUID LEVEL CONTROLLER
20	5	IDECK	RU4S-A110	CR1,2,3,4,7
21	1	SQUARE D	QOU115	CB6
22	1	STOCK		GFI
23	1	SQUARE D	QOU120	CB5
24	2	MARATHON	1321570	DISTRIBUTION BLOCK
25	1	SQUARE D	QOU110	CB7
26	4	OMRON	H3YN2AC120	TIME DELAY ON
27	2	DAYTON	6X154	TIME DELAY OFF
28	1	SQUARE D	9001KS401B	3 POSITION SWITCH
29	1	SQUARE D	9001KA1	CONTACT BLOCK
30	1	SQUARE D	9001KA2	CONTACT BLOCK
31	1	SQUARE D	9001KA3	CONTACT BLOCK
32	1	DELTA	LA603	LIGHTNING ARRESTOR
33	1	IRL		REMOTE MOUNTED ALARM LIGHT
34	2	ABB	TA75DU52	OL 1, 2

	Drawing Title  BILL OF MATERIALS							
			2	CHANGED CONTROLLER			01/30/15	SG
DATE 01/30/15			1	LIGHTNING ARRESTER			5/30/06	TL
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
	C.C.	R.C.	BY B.V.	BY	DATE			
Project Title  DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>				P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER	
							DRAWING NUMBER	
	CP-2205R2		SHEET NUMBER					
			6					