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# COX

Research and Technology, Inc.

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## MARKSVILLE CASINO 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	1/60	
NO. MOTORS	2	
HP	3	
FLA	23	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Barnes	
CATALOG NUMBER	XSGV3022L	
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	Yes	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

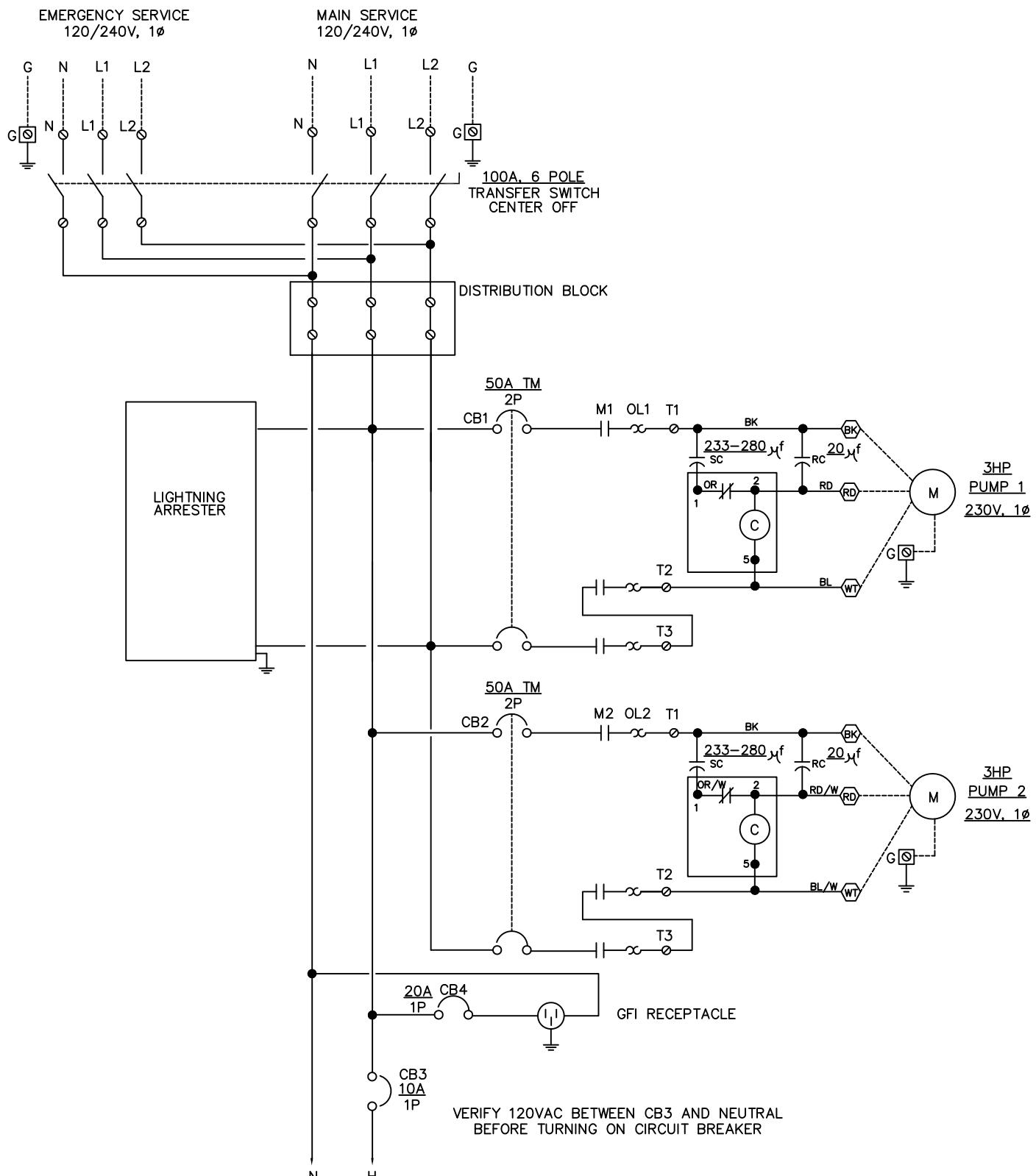
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(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		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR		
NEMA RATED STARTERS		
GROUND FAULT RECPT.	X	
GREEN RUN LIGHTS VS. RED	X	
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS	X	
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

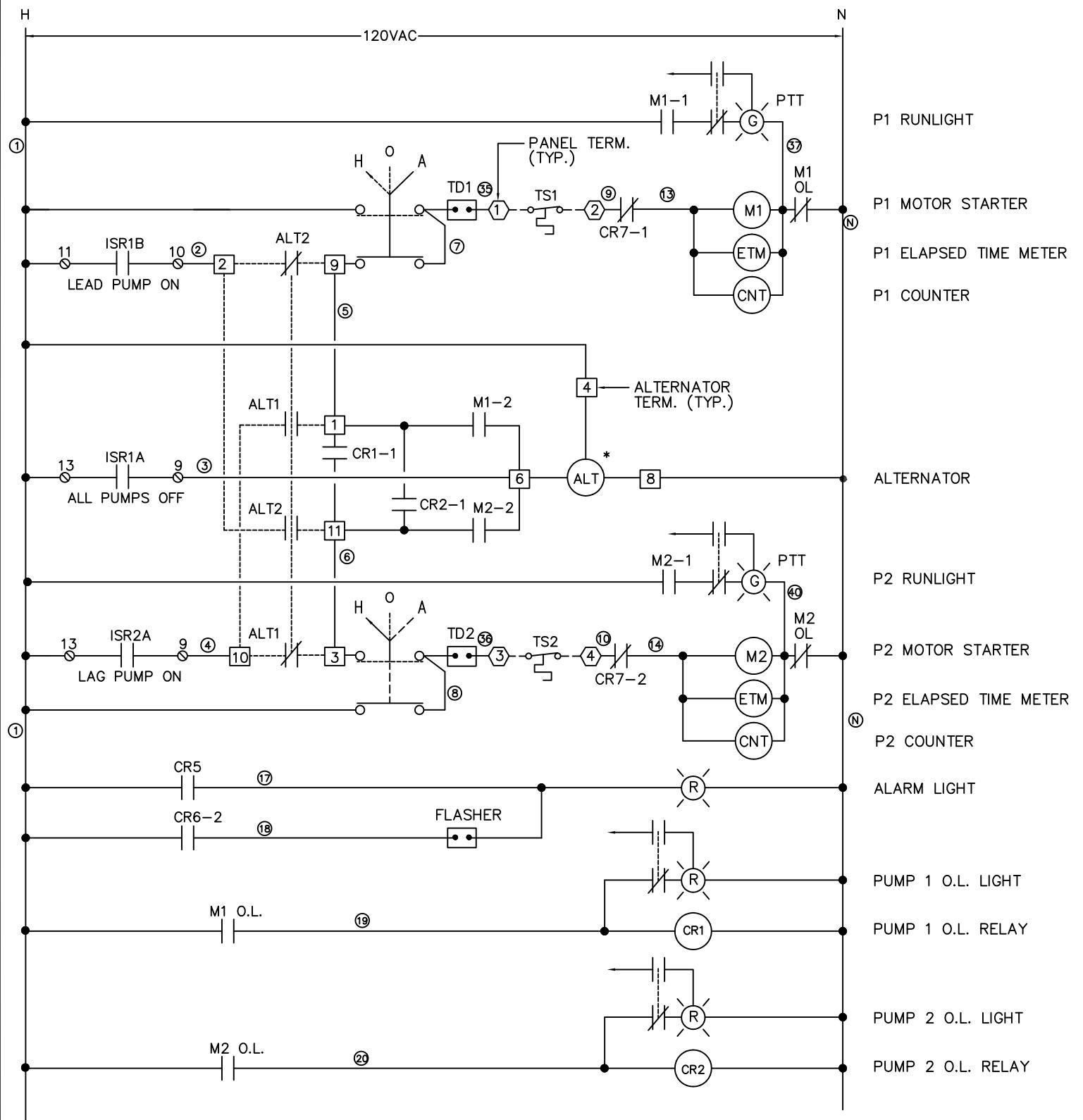
SOLD TO: Delta Process - Denham Springs, LA  
TAG : Marksville Casino

SHIP TO: Delta Process - Denham Springs, LA

DATE 11/15/05	Drawing Title  <b>PANEL DESCRIPTION</b>			R1	Add Low Level Time Delay			09/04/07	HNB
		REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE			
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>			P.O. Box 77808 Baton Rouge, LA 70809			PURCHASE ORDER NUMBER		
				Ph. (225)756-3271 Fax (225)755-1030			DRAWING NUMBER CP-2207rl		
							SHEET NUMBER 1		



	Drawing Title	R1	Add Low Level Time Delay		09/04/07	HNB
	POWER DIAGRAM					
DATE 11/15/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE APPROVED 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)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2207r1 SHEET NUMBER 2		



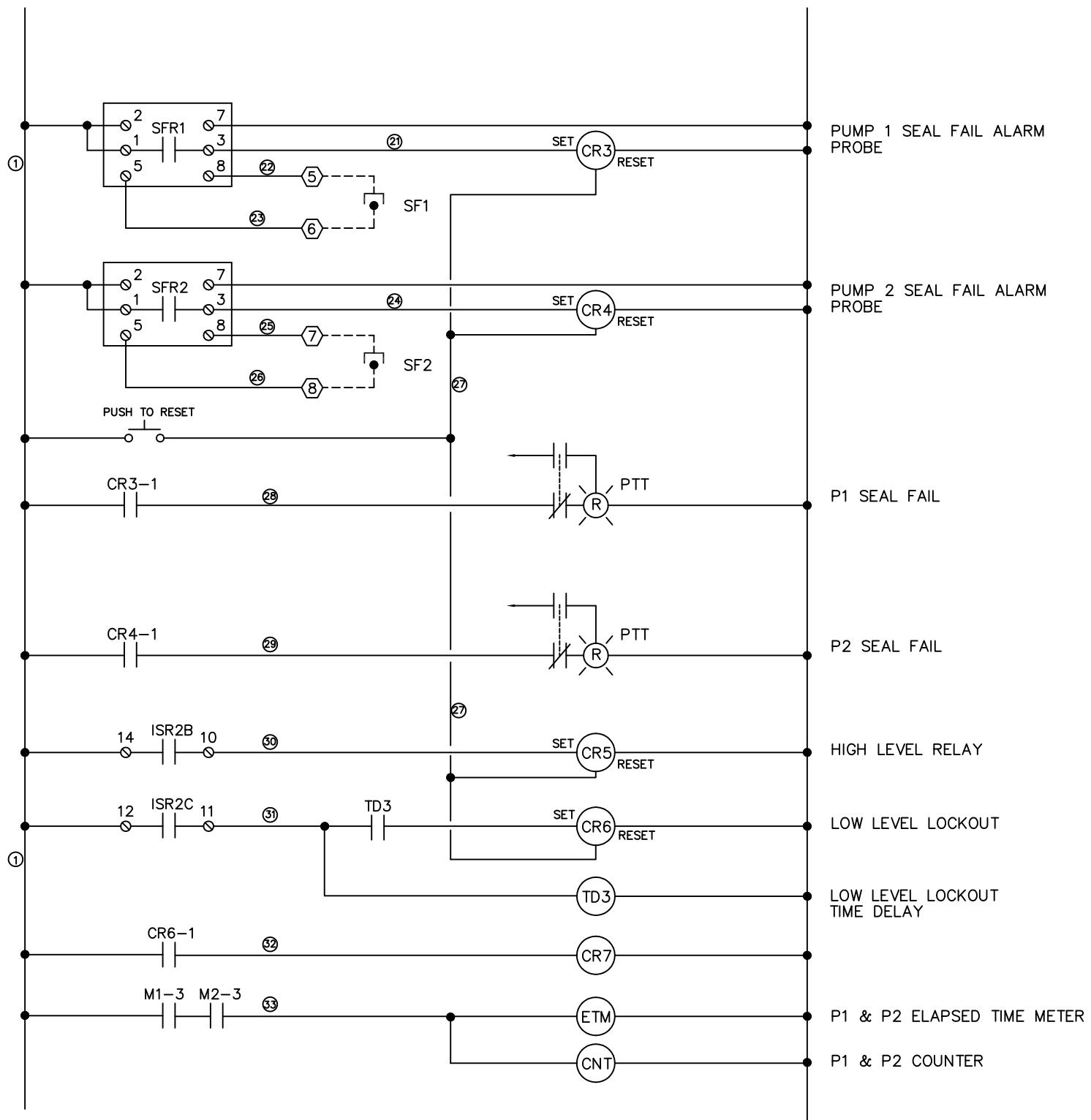
Drawing Title  
**CONTROL DIAGRAM**  
DATE  
11/15/05

Project Title  
**DUPLEX PUMP  
CONTROL PANEL**

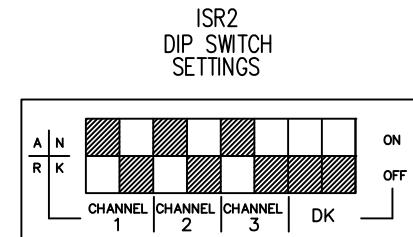
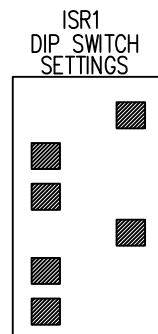
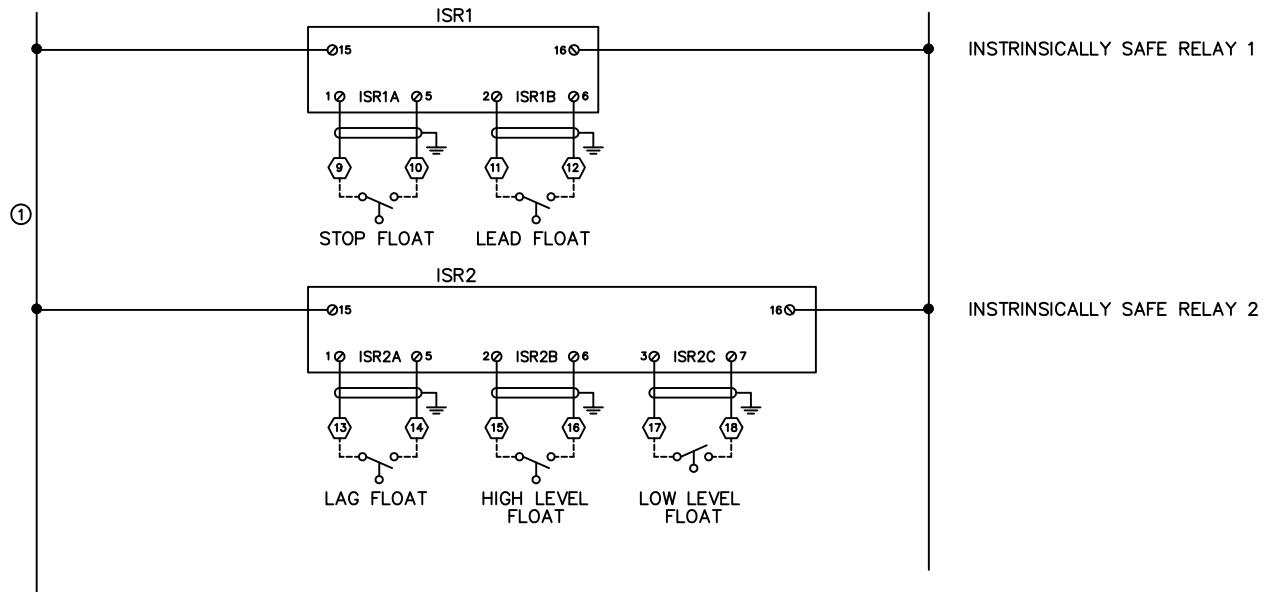
**COX**  
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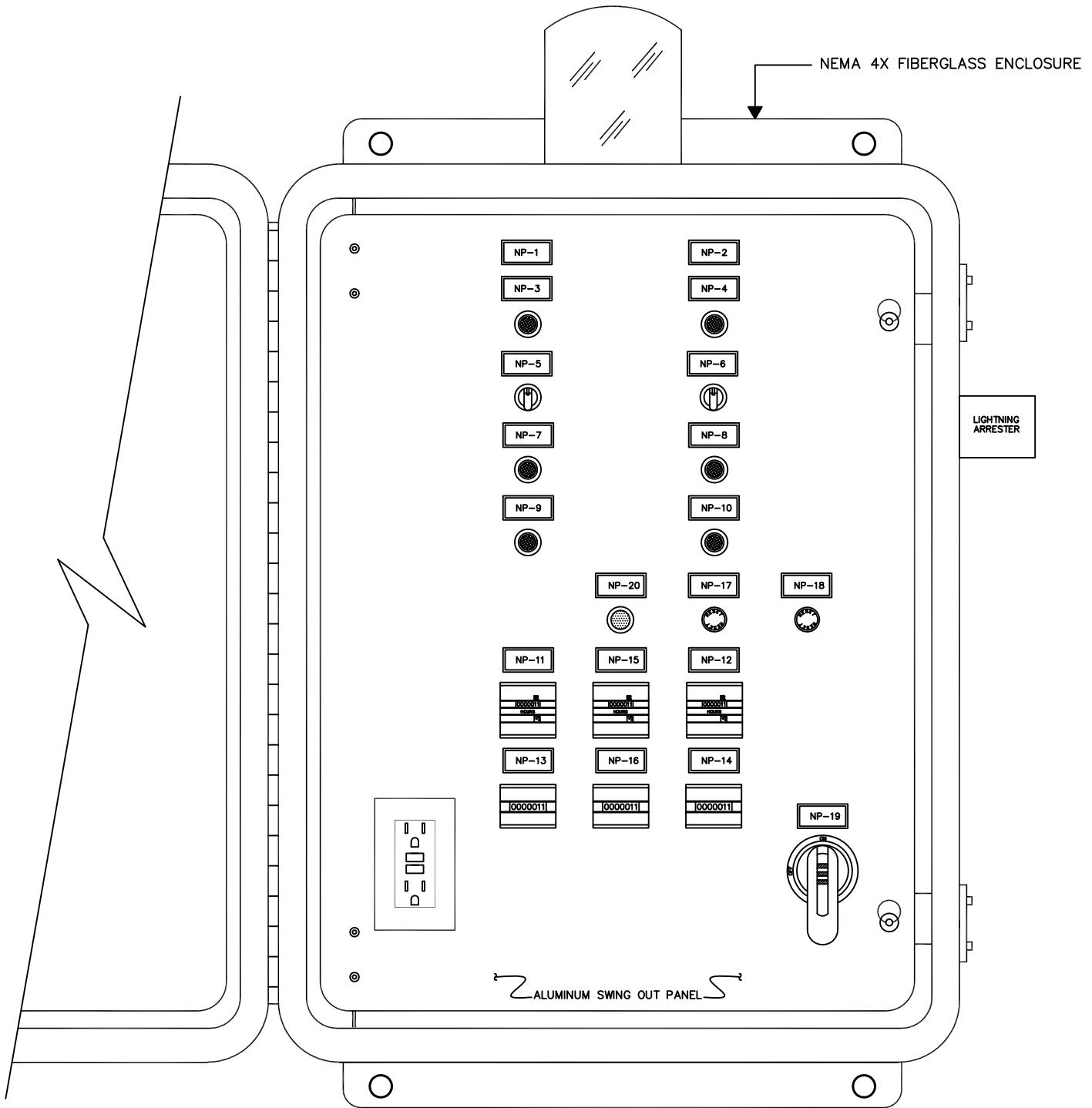
REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.	R.C.	BY C. RACHAL	BY	DATE
PURCHASE ORDER NUMBER					
DRAWING NUMBER				CP-2207r1	
SHEET NUMBER				3	



	Drawing Title  CONTROL DIAGRAM	R1	Add Low Level Time Delay		09/04/07	HNB
DATE 11/15/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY
			BY C. RACHAL	BY	APPROVED	
	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-2207rl SHEET NUMBER 4		



	Drawing Title	R1	Add Low Level Time Delay		09/04/07	HNB
	CONTROL DIAGRAM					
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/15/05	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2207r1
						SHEET NUMBER 5



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1	NP-11	ETM
NP-2	PUMP 2	NP-12	ETM
NP-3	RUN	NP-13	COUNTER
NP-4	RUN	NP-14	COUNTER
NP-5	HOA	NP-15	PUMP 1 & PUMP 2/ETM
NP-6	HOA	NP-16	PUMP 1 & PUMP 2/COUNTER
NP-7	OVERLOAD	NP-17	OVERLOAD RESET
NP-8	OVERLOAD	NP-18	OVERLOAD RESET
NP-9	SEAL FAIL	NP-19	MAIN CIRCUIT BREAKER
NP-10	SEAL FAIL	NP-20	ALARM RESET

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

	Drawing Title	R1		Add Low Level Time Delay		09/04/07	HNB
	<b>ENCLOSURE</b>						
DATE 11/15/05	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	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-2207r1 SHEET NUMBER 6		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM30240RL	ENCLOSURE
1a	1	ALLIED	PA3024	SWING PANEL
1b	1	ALLIED	HFP-3024	BACKPLATE
2	1	MARATHON	1323580	DISTRIBUTION BLOCK
3	2	ABB	A26-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU25	O.L. RELAY (18-25A)
5	2	SQUARE D	QOU250	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22BL11R	RED PILOT LIGHT PTT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	2	ACI	JR22BL11G	GREEN PILOT LIGHT PTT
11	2	DAYTON	2A561	TIME DELAY 1,2
12	1	SQUARE D	QOU110	CB4
13	1	ACI	JR22AN11B	PUSH BUTTON
14	3	IDECA	RY2S-UAC120	CR1,2,6
15	2	WWG	6X555	STARTER
16	2	WWG	4CU57	START CAPACITOR
17	2	WWG	6X660	RUN CAPACITOR
18	1	ABB	OT100E3C	TRANSFER SWITCH
19	1	ABB	OHB2AJE011	HANDLE
20	1	DELTA	LA302R	LIGHTNING ARRESTER
21	2	SSAC	LLC54AA	SEAL FAIL RELAY
22	1	SQUARE D	QOU120	CB3
23	1	ABB	OX5X180	SHAFT
24	4	MAGNECRAFT	W388AMLCPX-9	CONTROL RELAY 3,4,5,7
25	2	ABB	KPR3-104B	O.L. RESET PUSH BUTTON
26	1	STOCK		GFI
27	1	TURCK	MK13-22EXOR/115VAC	ISR1
28	1	TURCK	MK13-33EXOR/115VAC	ISR2
29	3	REDINGTON	711-0190	ETM
30	3	REDINGTON	P2-4816	COUNTERS
31	1	OMRON	H3YN2AC120	TD3

	Drawing Title  BILL OF MATERIALS		R1	Add Low Level Time Delay			09/04/07	HNB
DATE 11/15/05	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
			C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title  DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.			PURCHASE ORDER NUMBER		
						DRAWING NUMBER CP-2207rl		
						SHEET NUMBER 7		