
COX

Research and Technology, Inc.

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	<u>120/240V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>1/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>3</u>	
FLA	<u>23</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>Barnes</u>	
CATALOG NUMBER	<u>XSGV3022L</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>Yes</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u> </u>	
THERM. & SEAL FAIL WIRING FIGURE	<u> </u>	

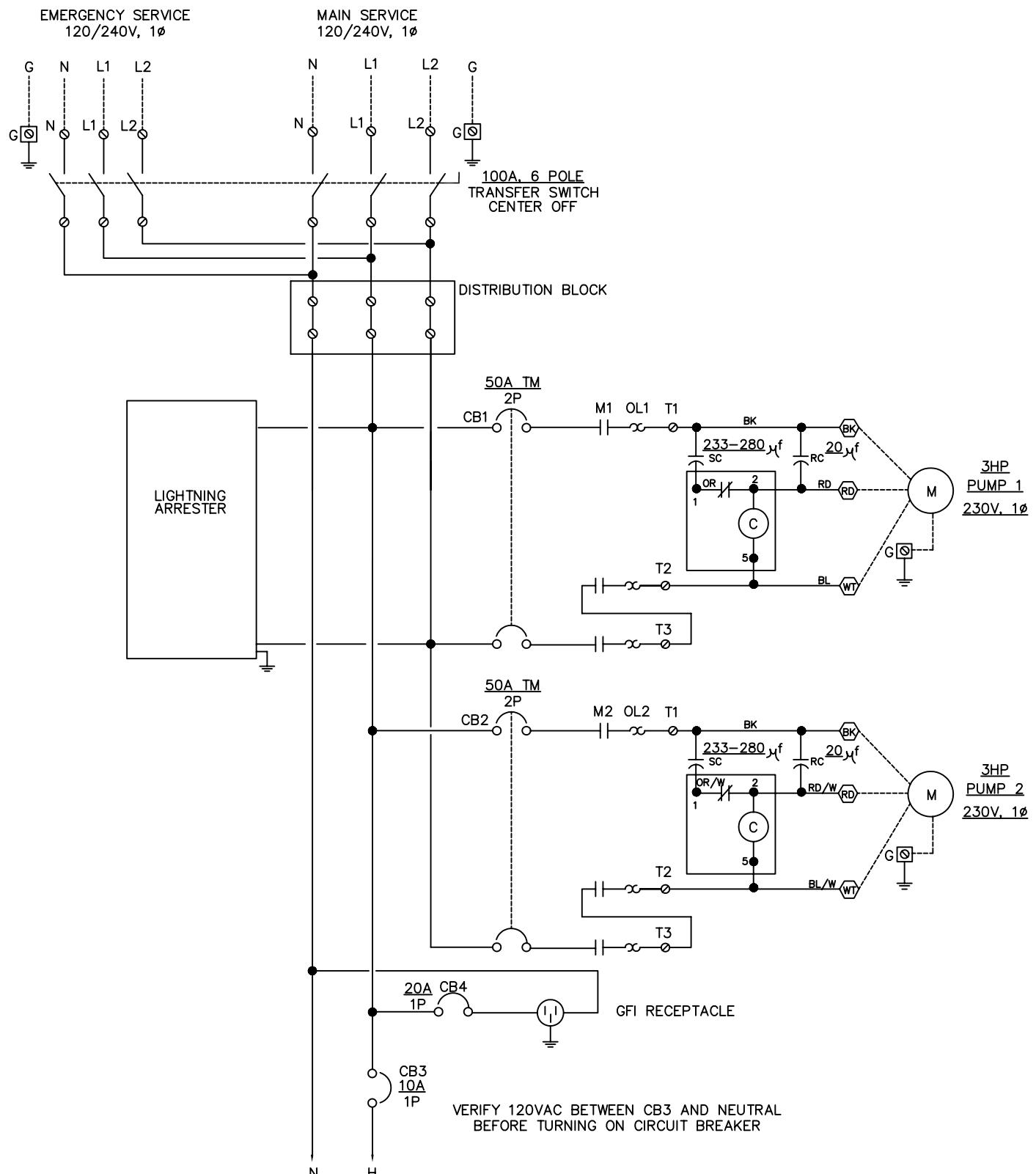
OPTIONS:

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

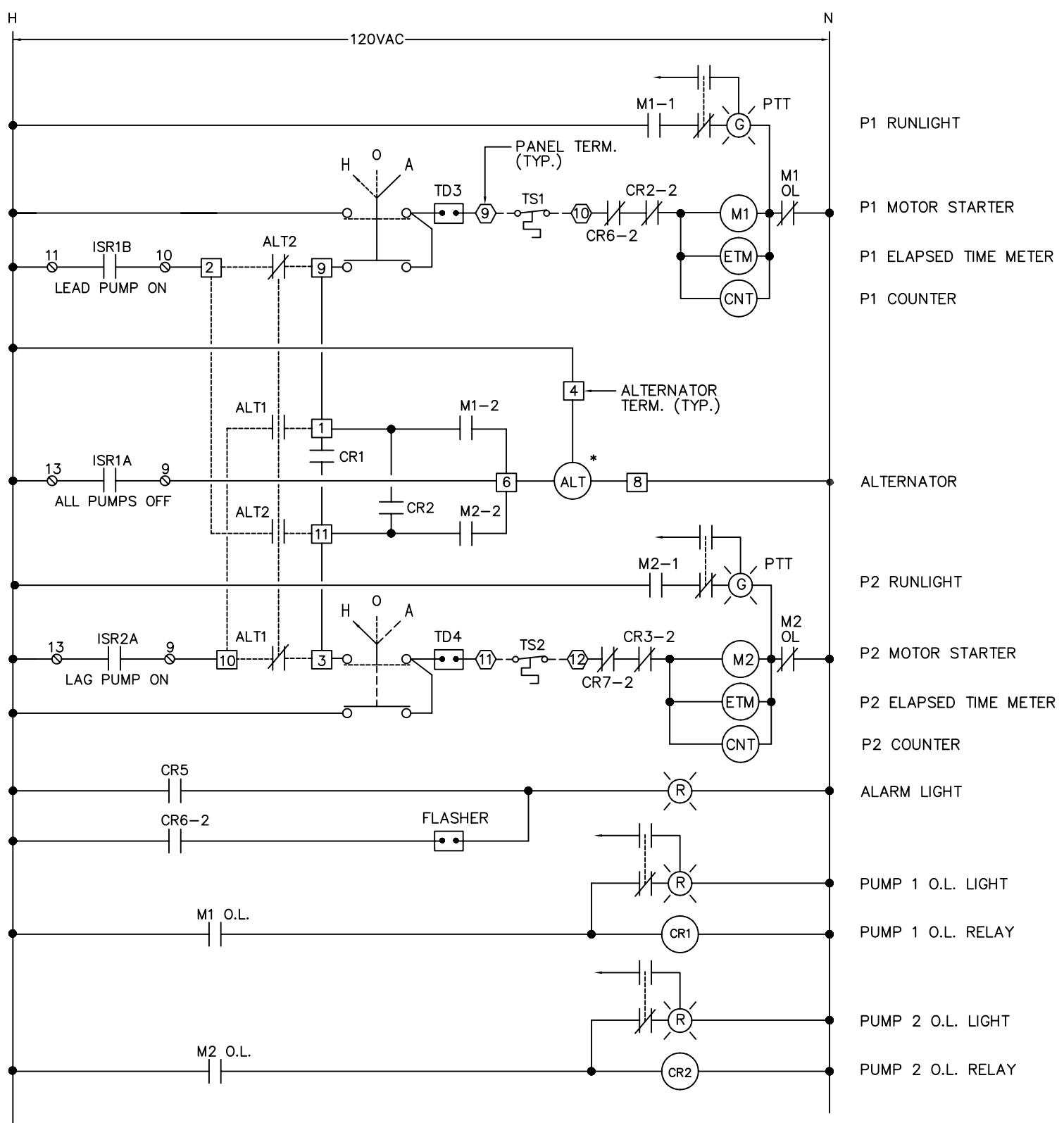
SOLD TO: Delta Process - Denham Springs, LA
TAG : Marksville Casino

SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title PANEL DESCRIPTION DATE 11/15/05						
	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)755-1030	DRAWING NUMBER CP-2207		
					SHEET NUMBER 1		



	Drawing Title POWER DIAGRAM			
DATE 11/15/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.
				DRAWN BY C. RACHAL
				ECN 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-2207 SHEET NUMBER 2	



Drawing Title
CONTROL DIAGRAM

DATE
11/15/05

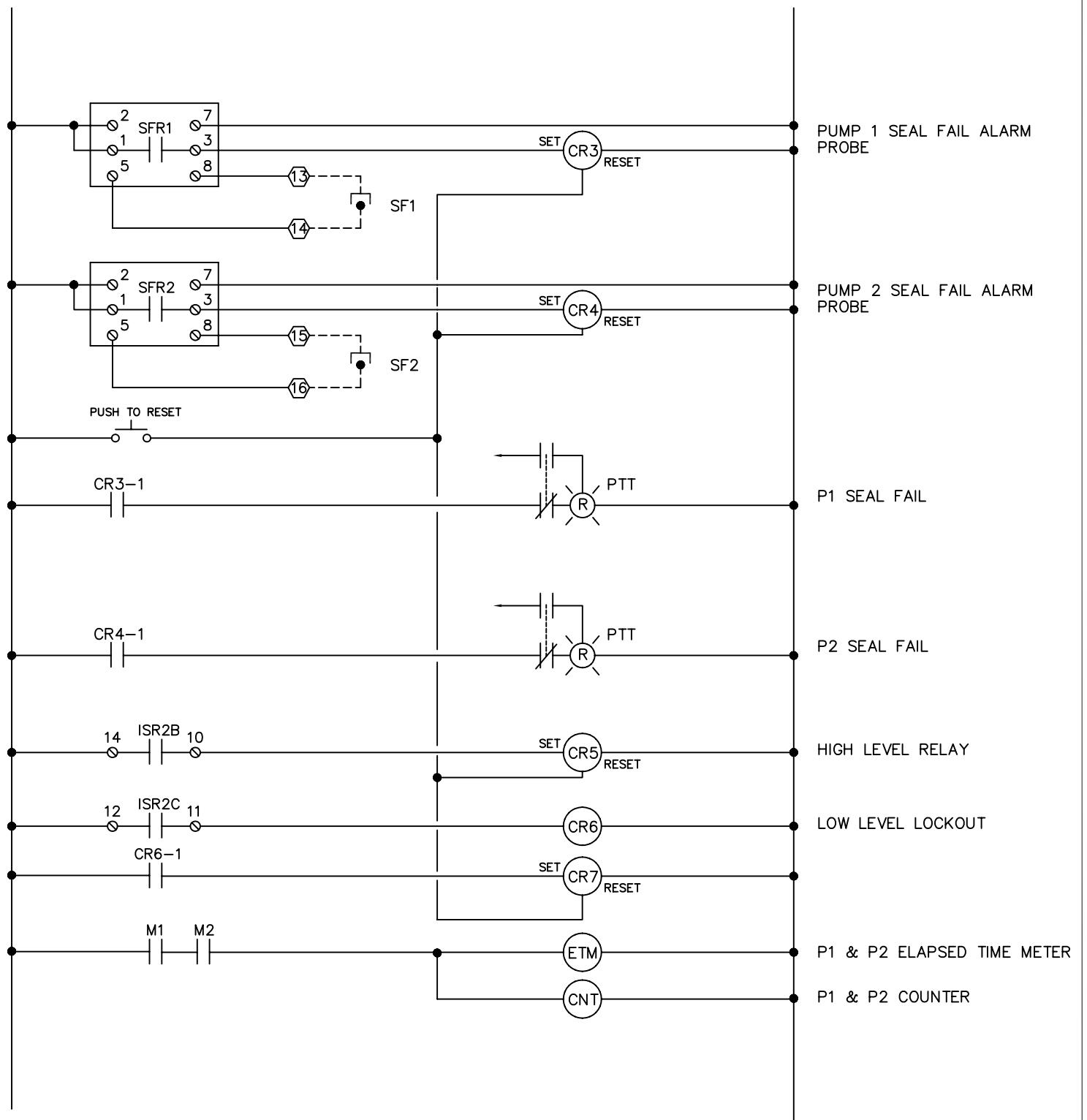
Project Title
**DUPLEX PUMP
CONTROL PANEL**

REFERENCE DRAWING
S/N Sales Engineer Application Engineer
C.C. R.C.
DRAWN BY C. RACHAL

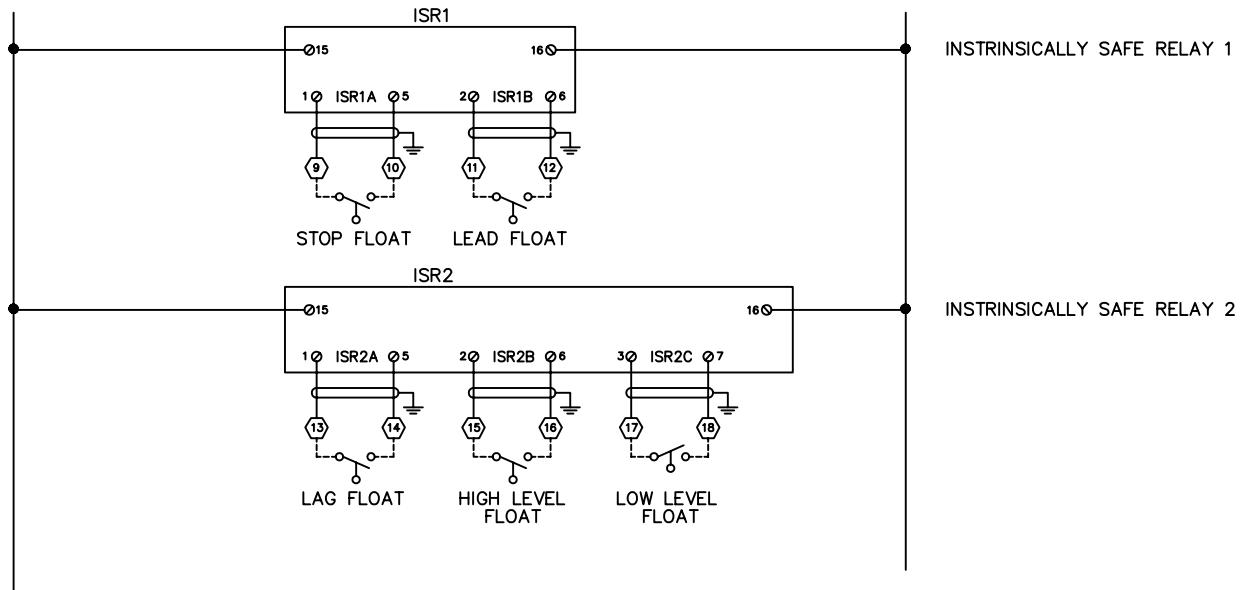
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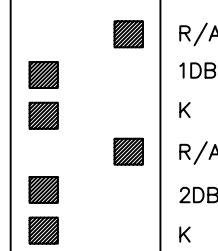
ECN DATE BY
APPROVED BY DATE
PURCHASE ORDER NUMBER
DRAWING NUMBER CP-2207
SHEET NUMBER 3



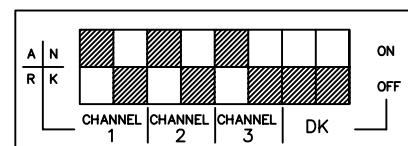
	Drawing Title CONTROL DIAGRAM				
DATE 11/15/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2207 SHEET NUMBER 4



ISR1
DIP SWITCH
SETTINGS



ISR2
DIP SWITCH
SETTINGS



Drawing Title

CONTROL DIAGRAM

DATE
11/15/05

REFERENCE DRAWING NO. REVISION-LOCATION ECN DATE BY

S/N

Sales Engineer

Application Engineer

DRAWN

BY C. RACHAL

APPROVED

BY DATE

Project Title

DUPLEX PUMP
CONTROL PANEL

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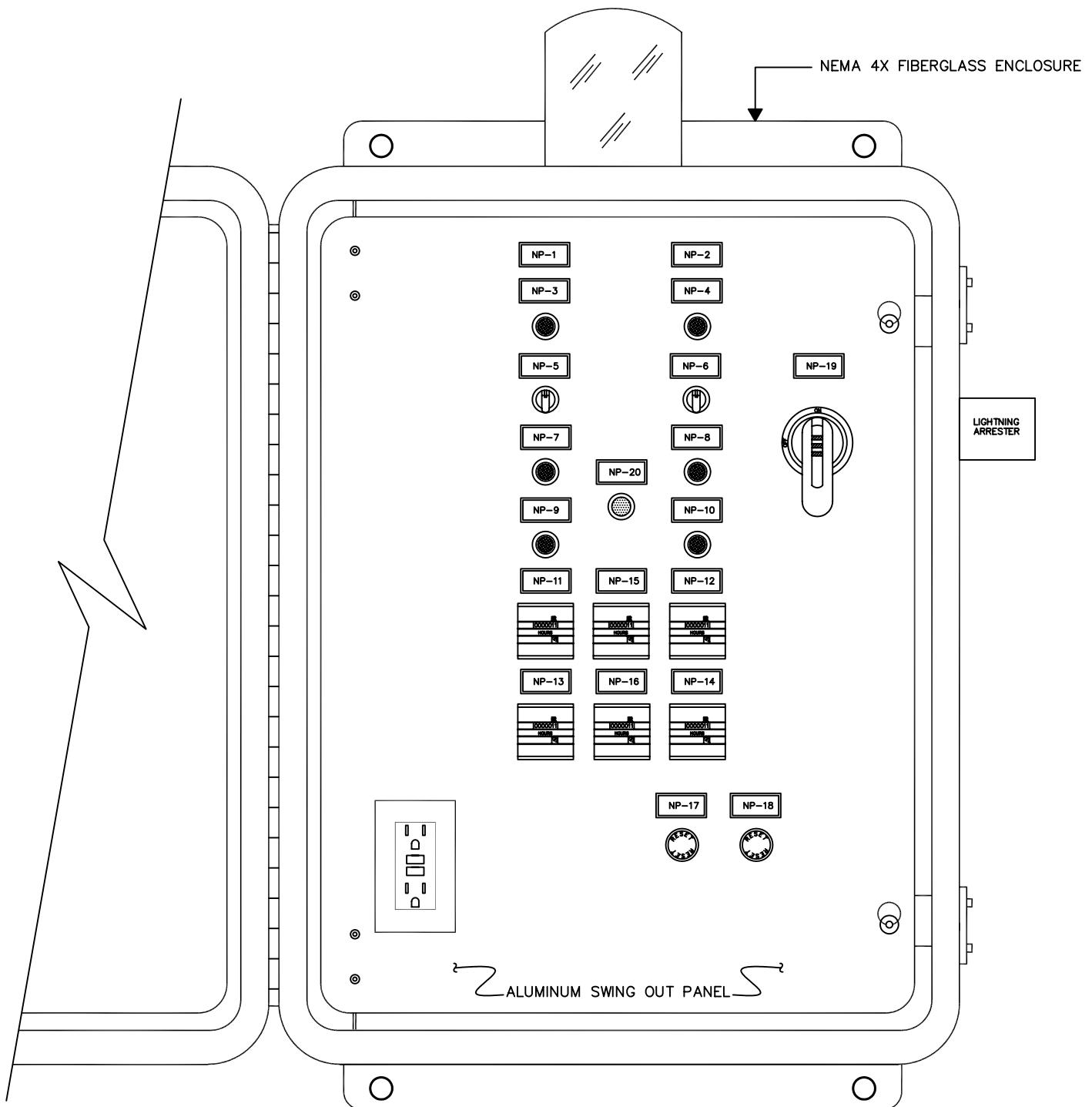
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SHEET NUMBER



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 ENCLOSURE DATE 11/15/05				
	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL
				APPROVED BY DATE
Project Title DUPLEX PUMP CONTROL PANEL	<hr/> COX <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2207 SHEET NUMBER 6

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL	ENCLOSURE
1a	1	ALLIED	PA2420	SWING PANEL
1b	1	ALLIED	HFP-2420	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	IDEC	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				

Drawing Title BILL OF MATERIALS						
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					7	