
COX

Research and Technology, Inc.

MORGAN CITY LAKESIDE PUMP STATION

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	64	
FLA	177.1	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(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	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

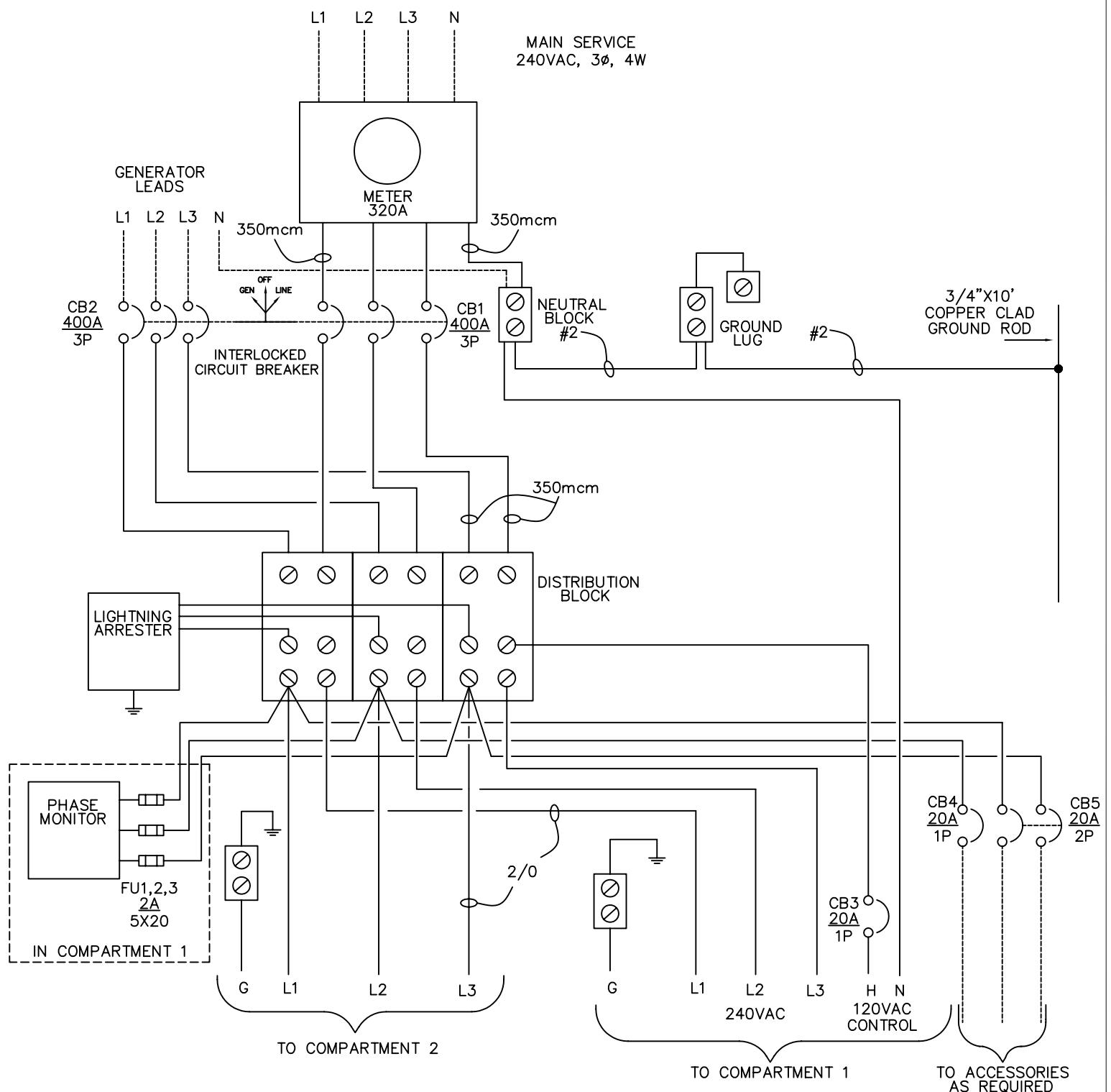
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(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	X	
NEMA RATED STARTERS	X	
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION		

SOLD TO: Delta Process - New Orleans, LA
TAG : MORGAN CITY LAKESIDE PUMP STATION

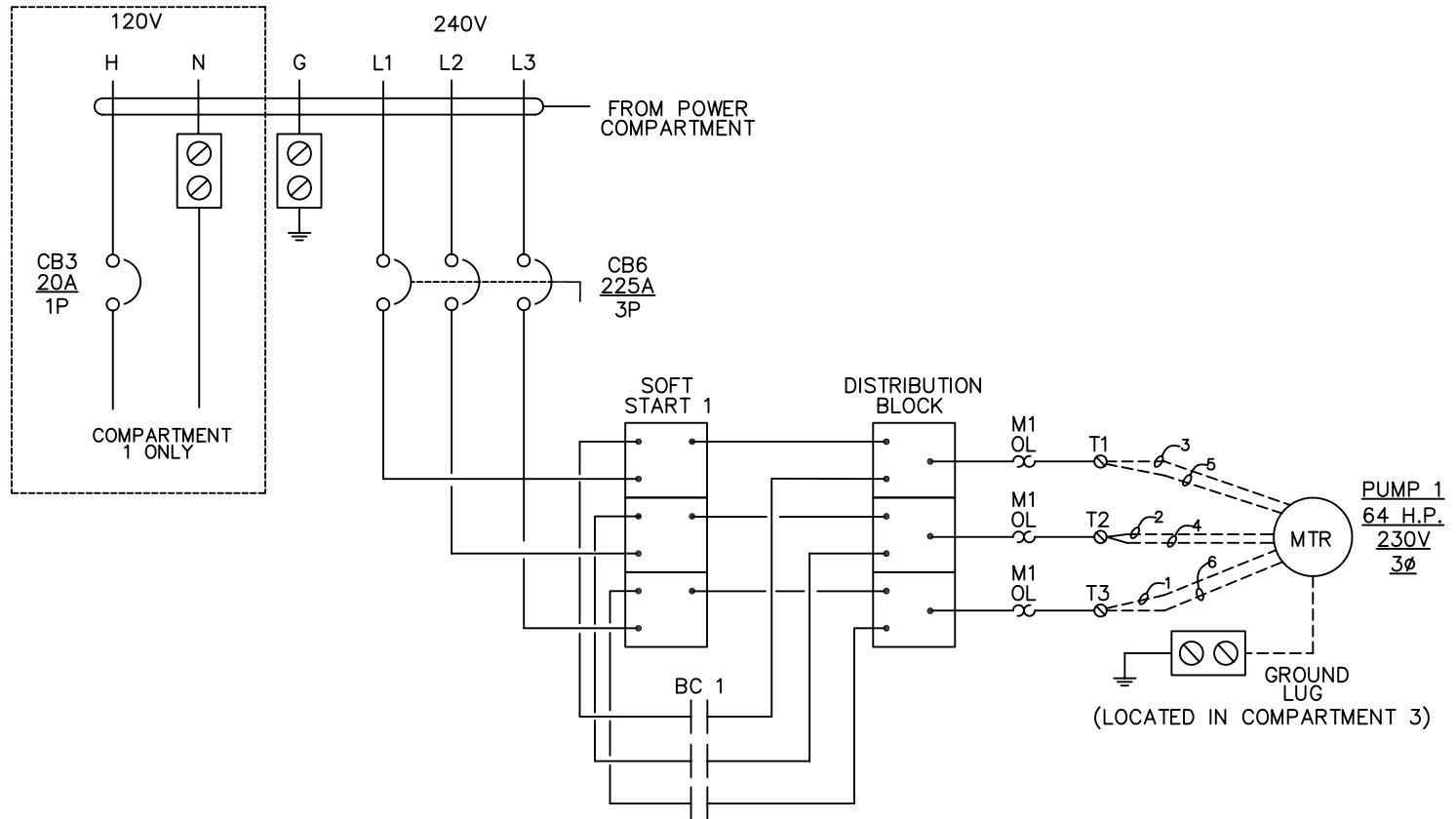
SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title PANEL DESCRIPTION DATE 1/29/04						
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN APPROVED BY	DATE DATE
	Project Title PUMP STATION CONTROL PANEL	<hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1743	
						SHEET NUMBER 1	

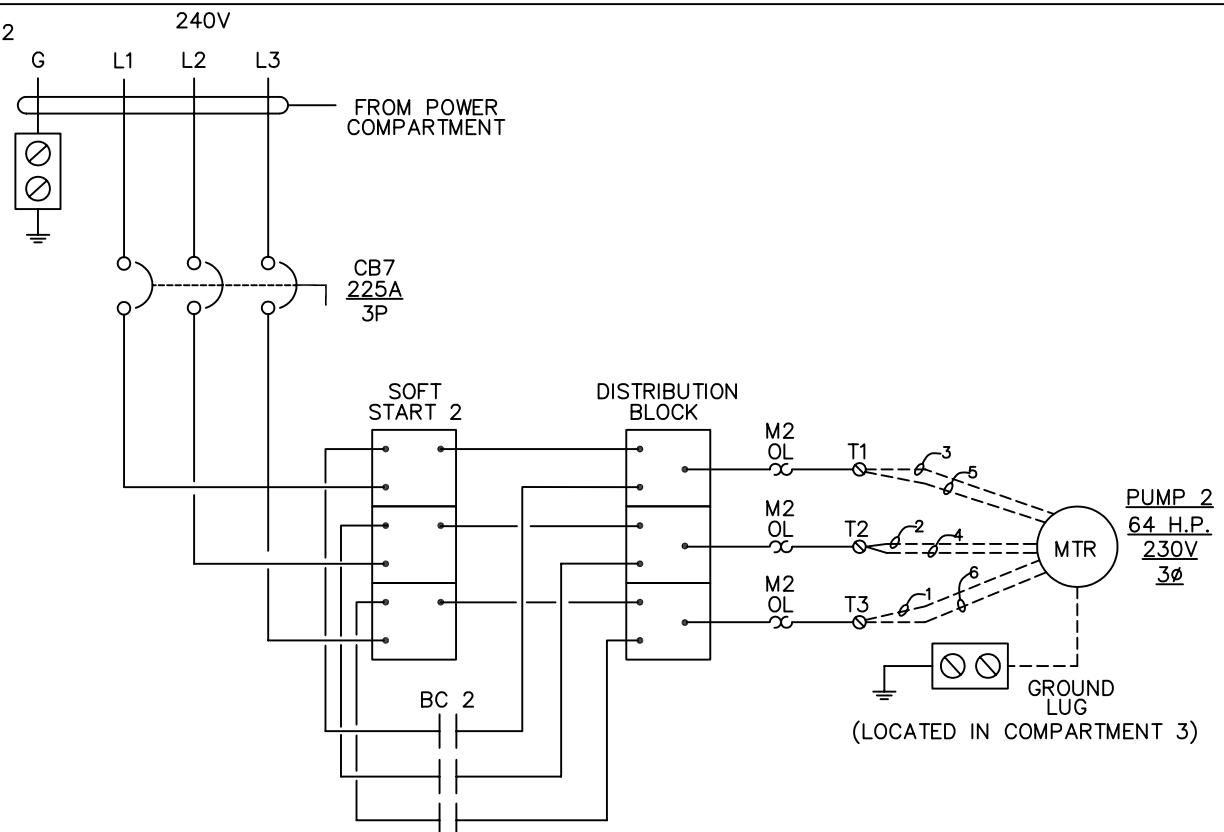


	Drawing Title POWER COMPARTMENT LAYOUT COMPARTMENT 3			
DATE 1/29/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL DATE APPROVED BY DATE
Project Title LAKESIDE PUMP STATION CONTROL PANEL	<hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
		Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1743	
			SHEET NUMBER 2	

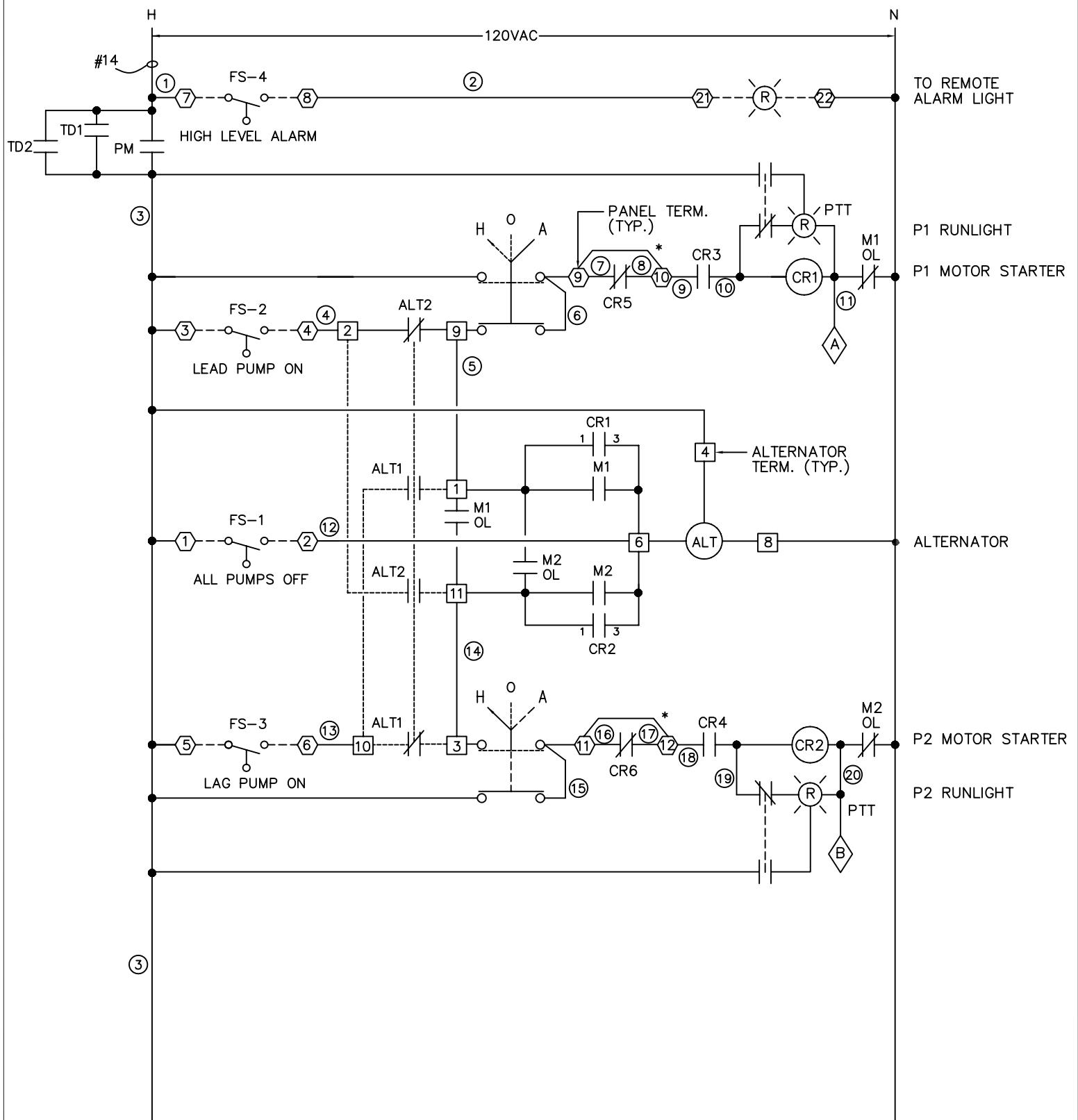
COMPARTMENT 1 PUMP 1



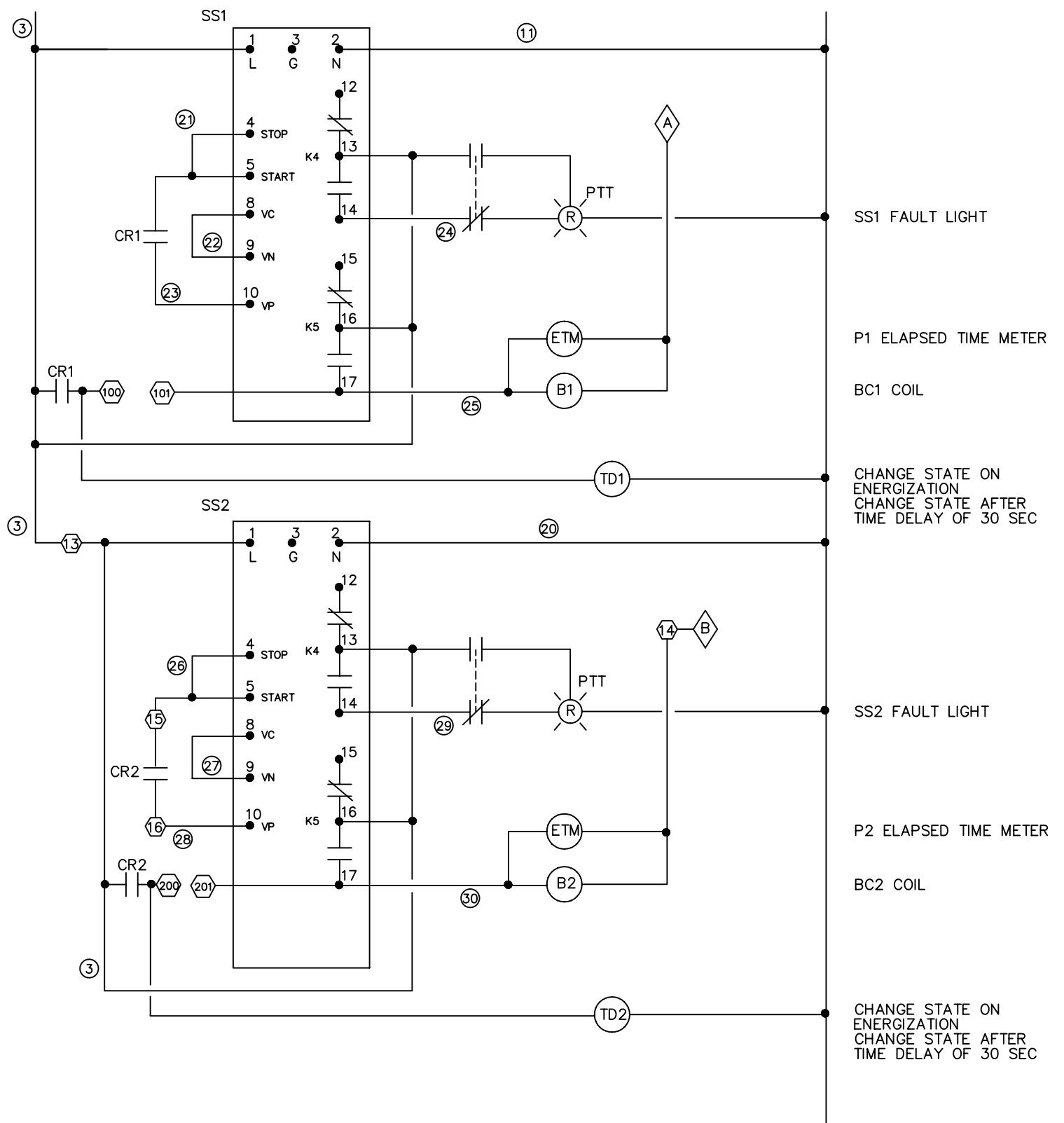
COMPARTMENT 2 PUMP 2



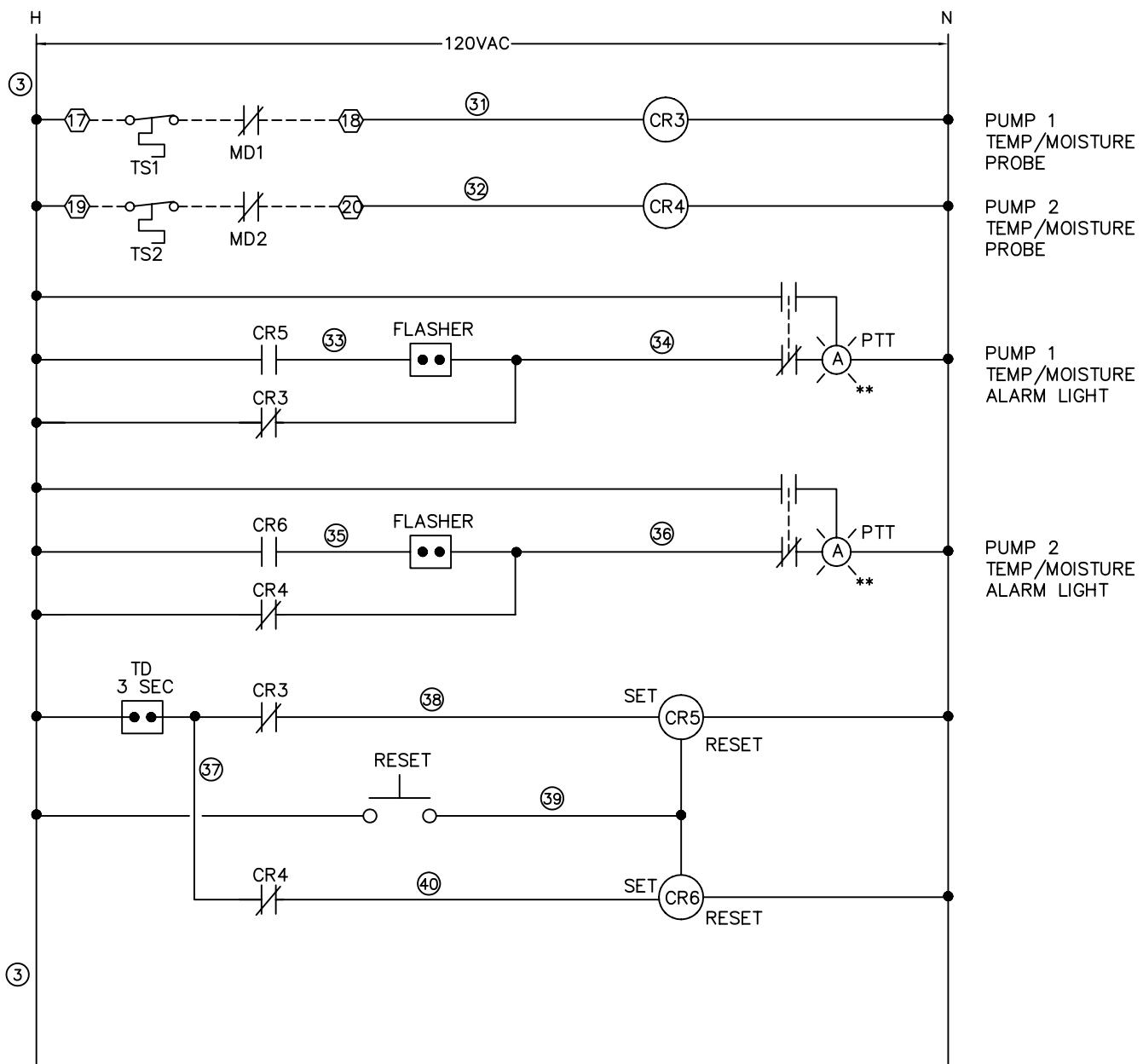
	Drawing Title						
	POWER DIAGRAM STARTER COMPARTMENT LAYOUT COMPARTMENTS 1,2						
DATE 1/29/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN BY	DATE APPROVED BY	BY
Project Title LAKESIDE PUMP STATION CONTROL PANEL	COX Research and Technology, Inc.				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
					DRAWING NUMBER Ph. (225)756-3271 Fax (225)756-1030	CP-1743 SHEET NUMBER 3	



	Drawing Title CONTROL DIAGRAM COMPARTMENTS 1,2						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 1/29/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
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					SHEET NUMBER 4		



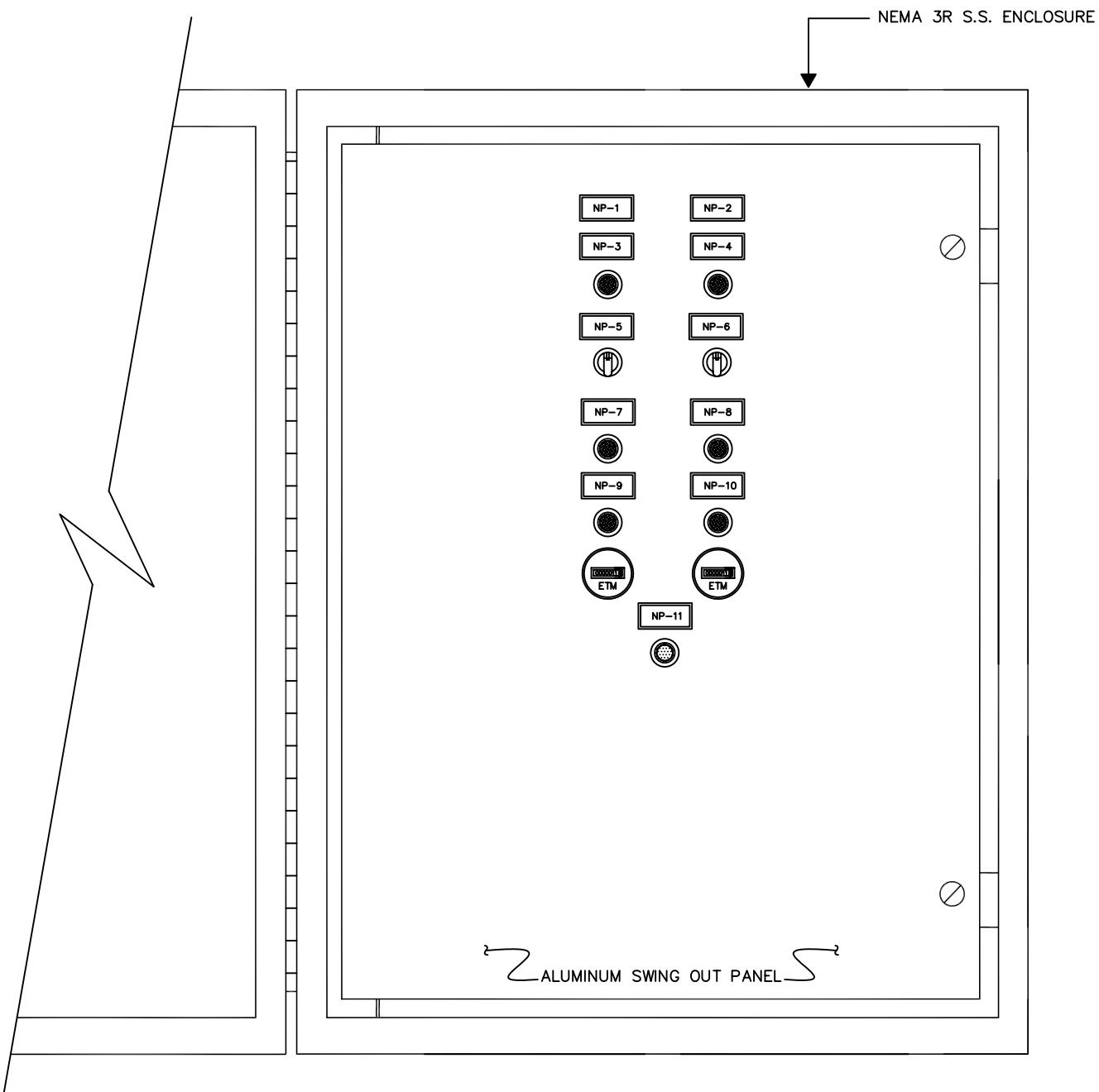
	Drawing Title								
DATE 1/29/04	CONTROL DIAGRAM COMPARTMENTS 1,2	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY			
Project Title	LAKESIDE PUMP STATION CONTROL PANEL	<hr/> <hr/> <hr/> COX <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
						DRAWING NUMBER CP-1743			
					SHEET NUMBER 5				



* REMOVE JUMPER IF MANUAL RESET ON HIGH TEMP/MOISTURE DETECTION IS REQUIRED

** IF HIGH TEMP/MOISTURE LIGHT IS FLASHING, A HIGH TEMP OR MOISURE CONDITION HAS OCCURED AND HAS BEEN AUTOMATICALLY RESET. PRESS RESET BUTTON TO CLEAR ALARM LIGHT.

	Drawing Title				
	CONTROL DIAGRAM COMPARTMENTS 1,2				
DATE 1/29/04		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 LAKESIDE PUMP STATION 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-1743 SHEET NUMBER 6		



VIEW OF SWING OUT PANEL IN COMPARTMENT 1

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SS1 FAULT
NP-8	SS2 FAULT
NP-9	HIGH TEMP/SEAL FAIL
NP-10	HIGH TEMP/SEAL FAIL
NP-11	ALARM RESET

NOTE:

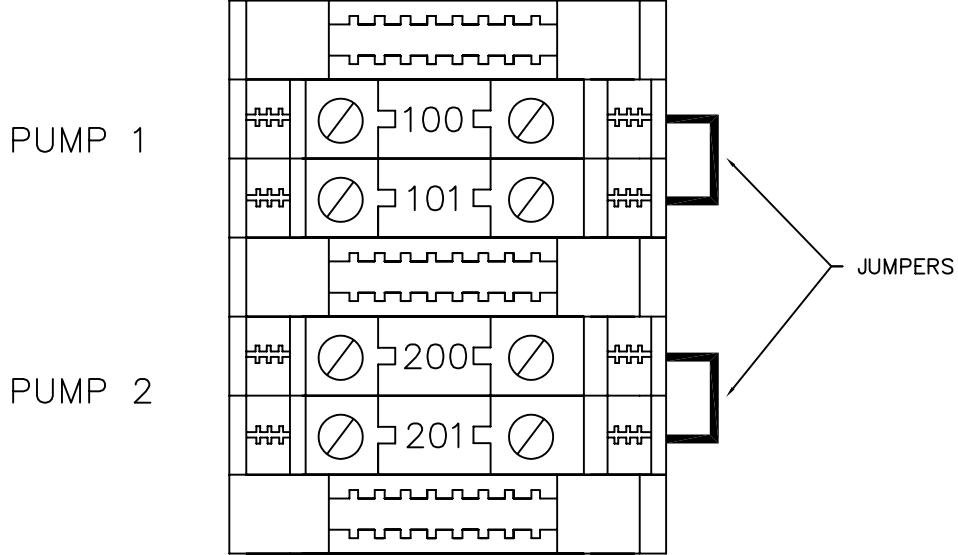
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

Drawing Title ENCLOSURE DATE 1/29/04						
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN
	S/N		Sales Engineer	DRAWN		DATE
	C.C.		Application Engineer	BY C. RACHAL		BY
Project Title LAKESIDE PUMP STATION CONTROL PANEL		<hr/> COX <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER	
					DRAWING NUMBER CP-1743	
					SHEET NUMBER 7	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	MILBANK		3 COMPARTMENT ENCLOSURE
1a	3	MILBANK		BACKPLATE
2	1			METER PAN
3	2	ABB	S5N400TW/LUGS	CB1,2 480V 3P 400A
4	1	ABB	K5MI-H	MECHANICAL INTERLOCK
5	2	ABB	PST210-600-70	SOFT START
6	2	ABB	PSLK-300/2	TERMINAL LUG KIT
7	2	ABB	PSLK-300	TERMINAL LUG KIT
8	2	ABB	LT300-AC	TERMINAL SHROUD
9	1	SQUARE D	LBA365208	DISTRIBUTION BLOCK
10	3	SQUARE D	LB53	DISTRIBUTION BLOCK COVER
11	1	SQUARE D	LBA265208	NEUTRAL BLOCK
12	1	SQUARE D	LB52	NEUTRAL BLOCK COVER
13	2	SQUARE D	QOU120	20A 1P CIRCUIT BREAKER
14	1	INTERMATIC	IG4803LYH	LIGHTNING ARRESTER
15	1	MARATHON	1321580	DISTRIBUTION BLOCK
16	2	ABB	S3N225TW/LUGS	CIRCUIT BREAKER 480V 3P 225A
17	2	ABB	A260N5-30-11-84	BYPASS CONTACTOR
18	2	ABB	TA450DU185	O.L. RELAY
19	2	SQUARE D	LBA365202	DISTRIBUTION BLOCK
20	1	SSAC	PLMU11	PHASE MONITOR
21	1	TOMAR	490S-120-R	STROBE LIGHT
22	4	A-B	800H-QRT10R	RED PTT LIGHT
23	2	A-B	800H-QRT10A	AMBER PTT LIGHT
24	2	A-B	800H-JR2A	HOA SWITCH
25	1	A-B	800H-AR2A	PUSH BUTTON
26	2	GRASSLIN	UWZ-52E	ETM
27	1	TIMEMARK	261DT120	ALTERNATOR
28	4	OMRON	MK3PN5SAC120	CR1,2,3,4
29	2	MAGNECRAFT	W388AMLCPX-9	CR5,6 LATCHING RELAY
30	2	SSAC	FS126	FLASHER
31	1	DAYTON	2A561	TIME DELAY

Drawing Title BILL OF MATERIALS							
	REFERENCE DRAWING S/N		NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL		ECN APPROVED BY	DATE BY DATE
DATE 1/29/04							
Project Title LAKESIDE PUMP STATION 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-1743 SHEET NUMBER	



IN AN EMERGENCY, IF THE SOFT START STARTER IS NOT OPERATING, INSTALL JUMPERS AS SHOWN ABOVE. THIS WILL ALLOW THE PUMPS TO START ACROSS THE LINE WITHOUT USING THE SOFT START STARTER.

	Drawing Title					
	SOFT START STARTER EMERGENCY BYPASS					
DATE 1/29/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
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TA450DU IEC 947-4-1 VDE0660 EN60 947-4-1	Adjusting full load motor current Trip current is 125% F.L.C. Overload Setting  Fuses: gL/gG 355 A Coordination Type "2" acc. to IEC 947-4-1 U = 1000 V/ Class 10 A	 97 98 NO C600 95 96 NC B600 FUSES 500V gL NC: 10A/NO: 6A	
	Same polarity above 300V	AC15	DC13
	NC	NO	NC
	250V	3A	1,5A
	380V	2A	0,95A
	500V	1,5A	0,75A
	600 Vac / Class 10 Fuses 400 A max/ TRS	0,12A	0,04A

	Drawing Title OVERLOAD SETTINGS DATE 1/29/04							
	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	
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						SHEET NUMBER 10		