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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
ZACHARY LIFT STATION  
RE-HAB UNIT

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	5	
FLA	16.6	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
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	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

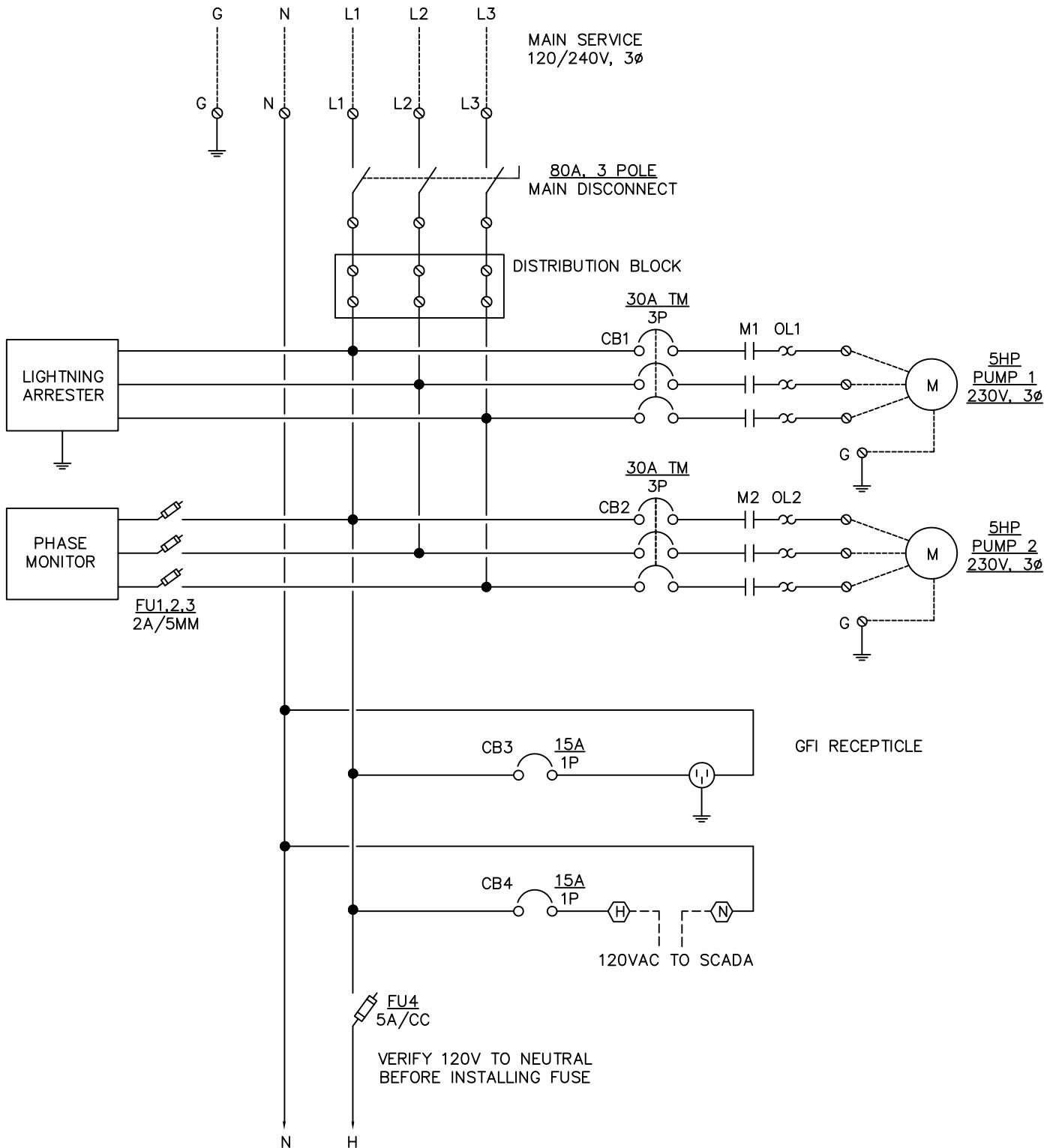
OPTIONS:

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

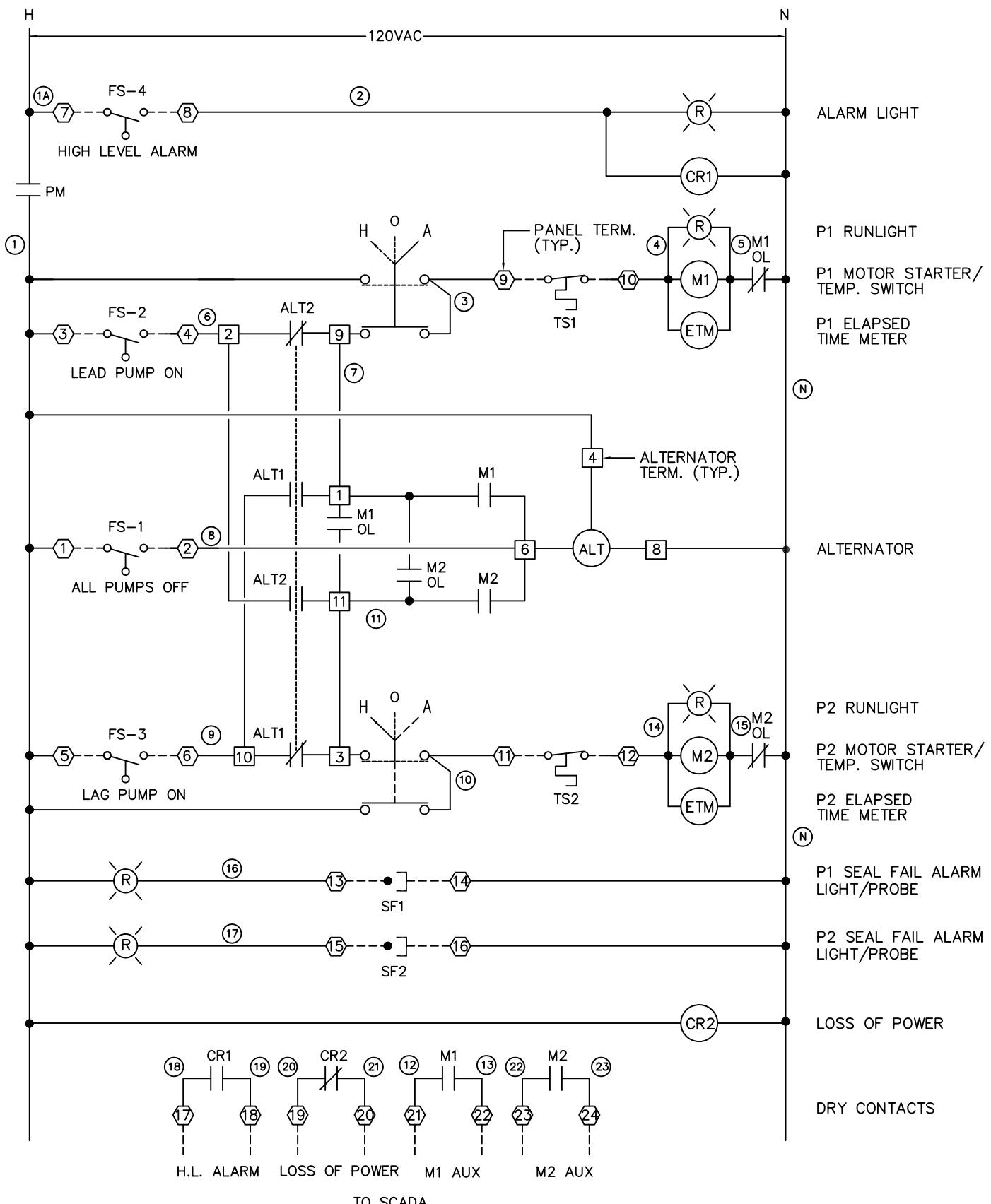
SOLD TO: ARMCO ELECTRIC, INC.  
 TAG : ZACHARY LIFT STATION  
 RE-HAB UNIT

SHIP TO: ARMCO ELECTRIC, INC.  
 14635 SUMMERS ROAD  
 BATON ROUGE, LA 70818

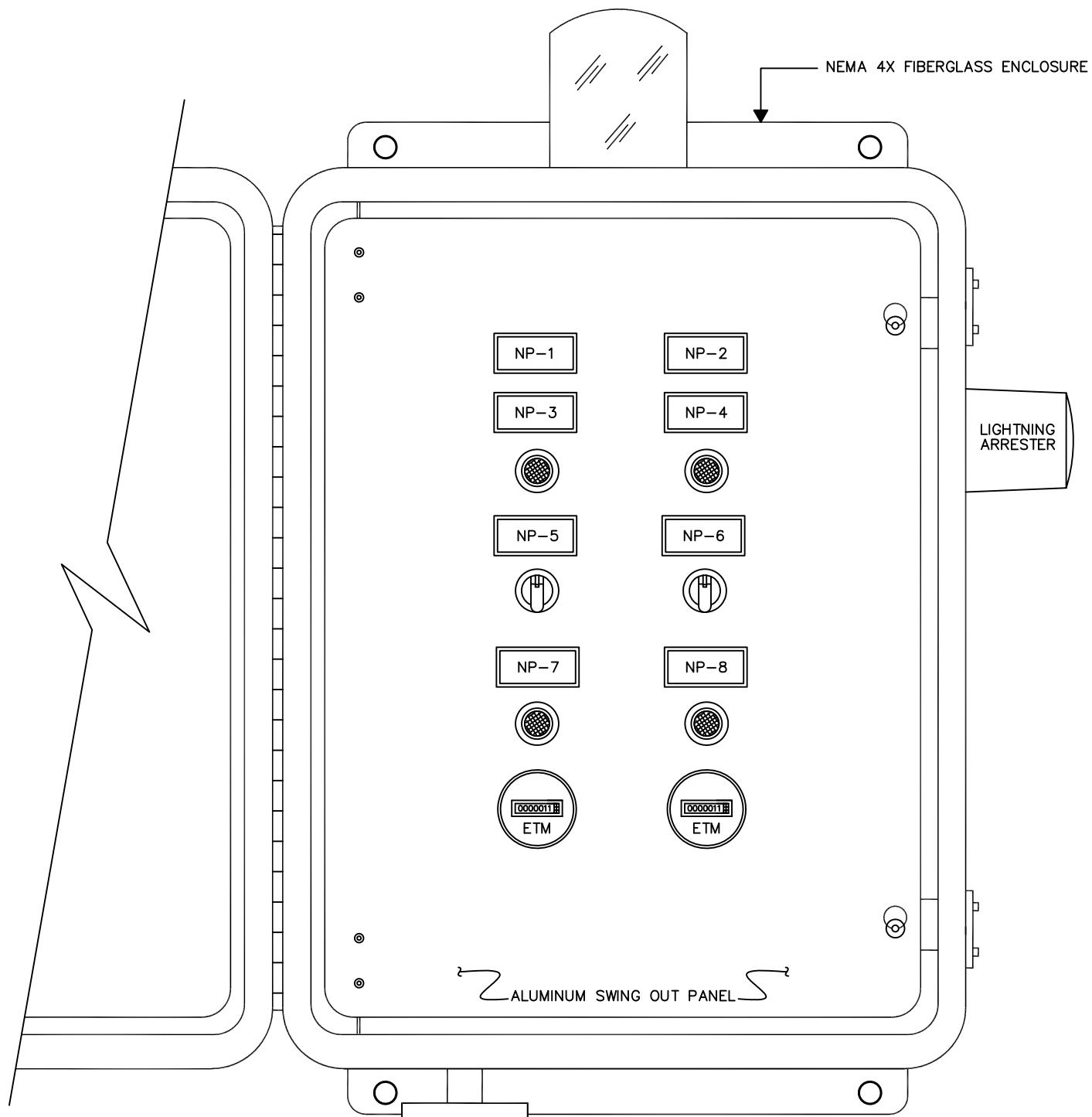
Drawing Title	PANEL DESCRIPTION			REFERENCE DRAWING NO.	REVISION-LOCATION	ECN	DATE BY	
DATE xx/xx/02				S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED
					C.C.	R.C.	BY C. RACHAL	BY DATE
Project Title	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809			PURCHASE ORDER NUMBER	
DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-1642	
				Ph. (225)756-3271 Fax (225)756-1030			SHEET NUMBER 1	



	Drawing Title						
	POWER DIAGRAM						
DATE xx/xx/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY	
		Application Engineer R.C.					
	Project Title	<b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER	CP-1642	
					SHEET NUMBER		2



	Drawing Title  CONTROL DIAGRAM				
DATE xx/xx/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE APPROVED BY
			BY C. RACHAL		
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)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1642 SHEET NUMBER 3		



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL

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 xx/xx/02	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY C. RACHAL	BY DATE	
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1642	
					SHEET NUMBER 4	

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU19	O.L. RELAY (13-19A)
5	2	SQUARE D	QOU330	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	1	C-H	CHSA03	LIGHTNING ARRESTER
11	1	SSAC	PLMU-11	PHASE MONITOR
12	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
13	1	STOCK		GFI RECEPTICLE
14	2	OMRON	G2R2SAC120	CR1,2
15				
16				
17				
18				
19				
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22				
23				
24				
25				

	Drawing Title									
	<b>BILL OF MATERIALS</b>									
DATE xx/xx/02			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		COX		P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER				
	DUPLEX PUMP CONTROL PANEL					DRAWING NUMBER				
						CP-1642				
						SHEET NUMBER				