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# COX

Research and Technology, Inc.

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## SIMPLEX PUMP CONTROL PANEL SPRING HILL DETENTION POND

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

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	1	
HP	5	
FLA	13.2	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER	G-R	
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		

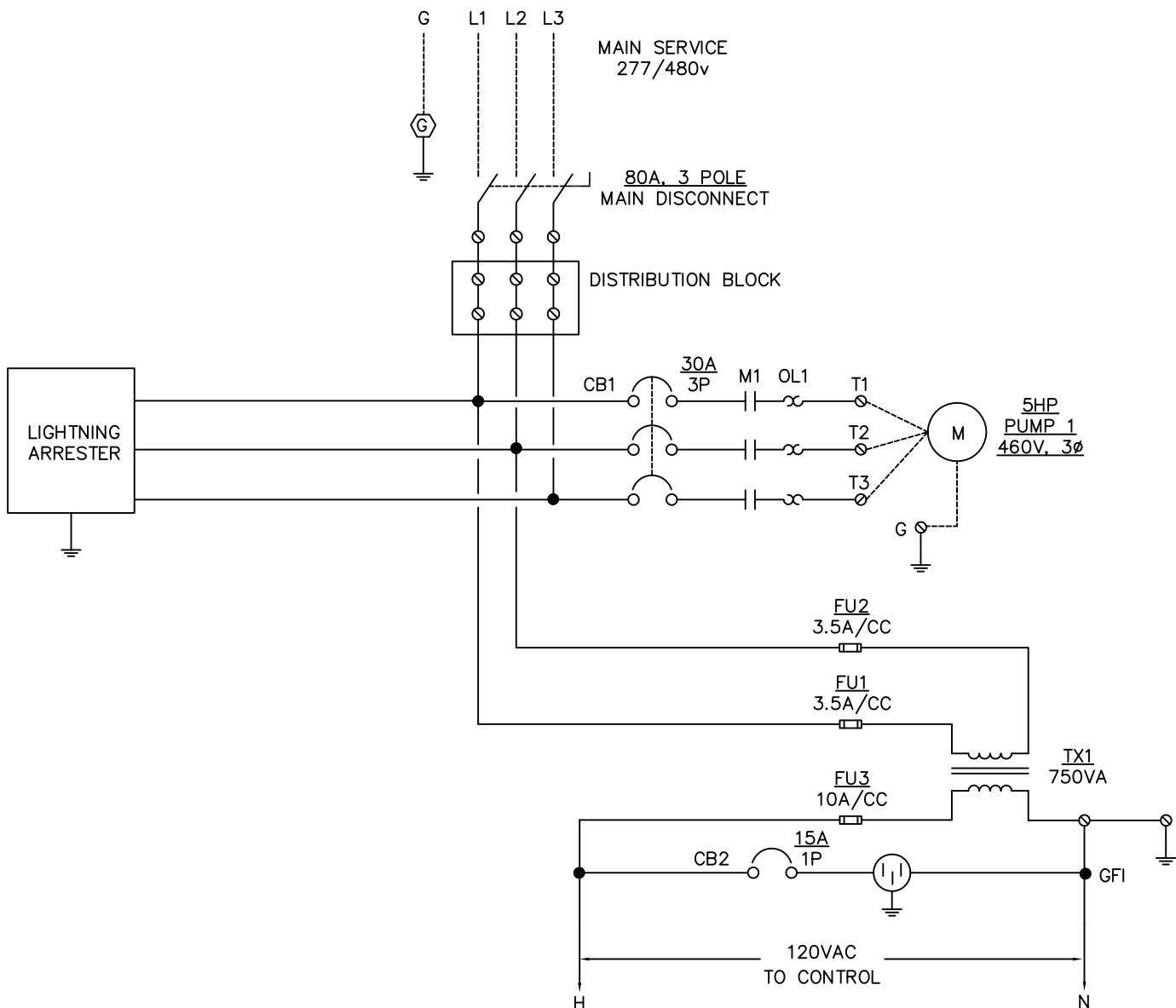
OPTIONS:

SEAL FAIL LIGHTS	_____	(Submersible Only)
SEAL FAIL RELAYS	_____	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	_____	(Submersible Only)
HT PUMP SHUTDOWN	_____	(Self-Primer, Submersible)
ALARM HORN	_____	
ALARM LIGHT	_____	
LIGHT PANEL MTD	_____	
LIGHT REMOTE MTD	_____	
LIGHT FLASHER	_____	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	_____	
PHASE MONITOR	_____	
NEMA RATED STARTERS	_____	
GROUND FAULT RECPT.	X (10A MAX)	
GREEN RUN LIGHTS VS. RED	_____	
POLE, BOX, SEAL	_____	
INTRINSICALLY SAFE RELAYS	_____	
HIGH TEMP. LOCKOUT, MANUAL RESET	_____	
ECONOMY VERSION	_____	

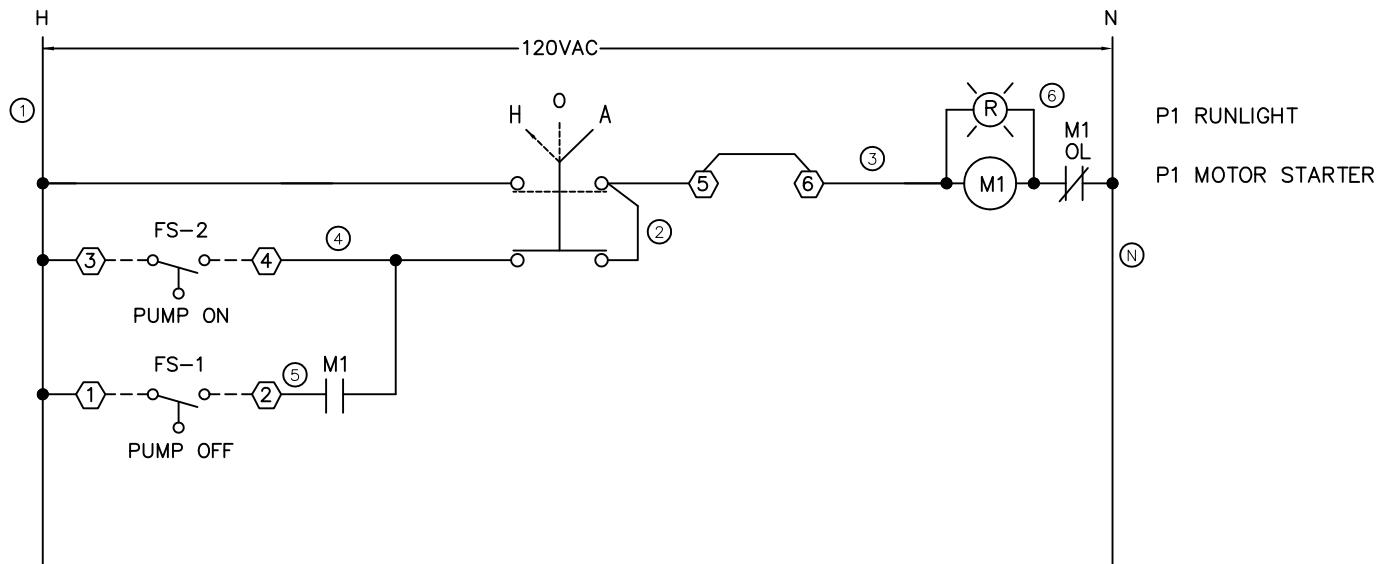
SOLD TO: Delta Process - Bossier City, LA  
TAG : SPRING HILL DETENTION POND

SHIP TO: Delta Process - Shreveport, LA

Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	BY C. RACHAL	BY	APPROVED	DATE
DATE 3/31/04	Project Title  SIMPLEX 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)756-1030	DRAWING NUMBER CP-1775					
				SHEET NUMBER 1					

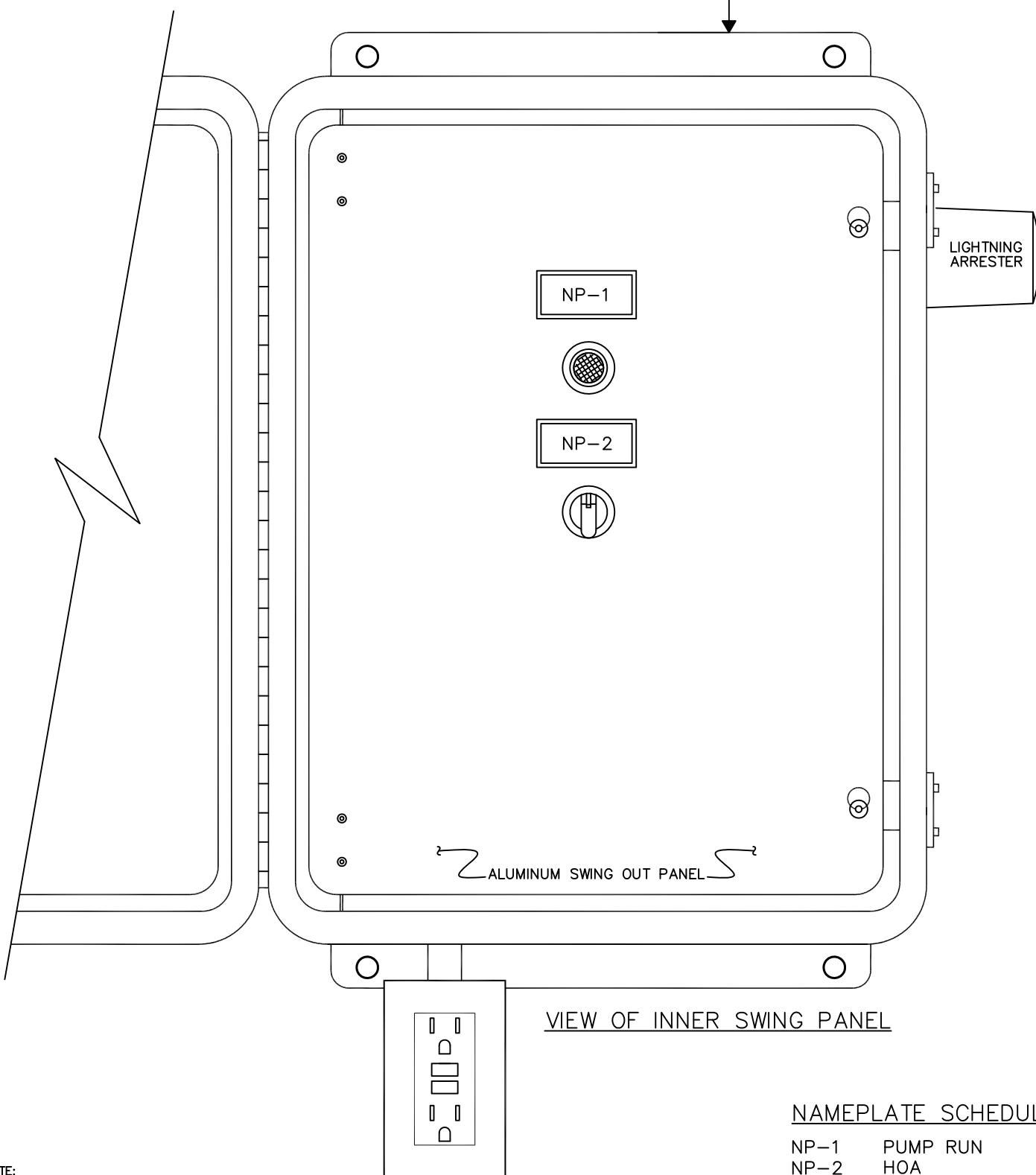


	Drawing Title					
	POWER DIAGRAM					
DATE 3/31/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
	Project Title		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	SIMPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1775		
				SHEET NUMBER 2		



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title					
	CONTROL DIAGRAM					
DATE 3/31/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
	Project Title				PURCHASE ORDER NUMBER	
	SIMPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			DRAWING NUMBER CP-1775	
					SHEET NUMBER 3	

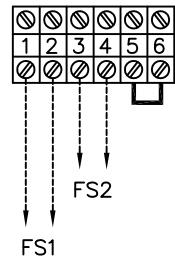
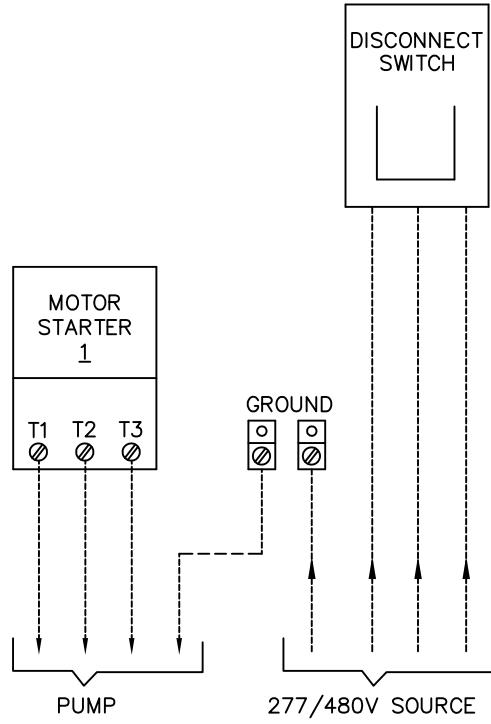


**NOTE:**  
SEWER GASES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASES.

#### NAMEPLATE SCHEDULE

NP-1	PUMP RUN
NP-2	HOA

Drawing Title	ENCLOSURE						ECN	DATE	BY				
	REFERENCE DRAWING		NO.	REVISION-LOCATION									
S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED								
C.C.		R.C.	BY C. RACHAL		BY DATE								
Project Title	<b>COX</b> Research and Technology, Inc.						PURCHASE ORDER NUMBER						
SIMPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-1775						
							SHEET NUMBER 4						



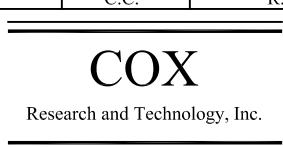
FS1 – FLOAT SWITCH 1  
 PUMP OFF  
 FS2 – FLOAT SWITCH 2  
 PUMP ON  
 FS3 – FLOAT SWITCH 3  
 HIGH LEVEL ALARM  
 TS – TEMP. SWITCH 1

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title						
	EXTERNAL CONNECTIONS						
DATE 3/31/04							
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		PURCHASE ORDER NUMBER	
SIMPLEX PUMP CONTROL PANEL			Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1775		
						SHEET NUMBER 5	

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPL	ENCLOSURE
1a	1	STAHLIN	BP1816	BACKPLATE
2	1	ABB	A16-30-10-84	MOTOR STARTER
3	1	ABB	TA25DU14	O.L. RELAY (10-14A)
4	1	ABB	S1NO30TL	CIRCUIT BREAKER
5	1	ACI	JR22FR	RED PILOT LIGHT
6	1	ACI	JR22P3M20B	HOA SWITCH
7	1	ABB	OT63E3	DISCONNECT SWITCH
8	1	DELTA	LA603	LIGHTNING ARRESTER
9	1	SQUARE D	9070TF750D1	TRANSFORMER
10	1	STOCK		GFI
11	1	SQUARE D	QOU115	CB2
12	1	MARATHON	1323580	DISTRIBUTION BLOCK
13				
14				
15				
16				
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25				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 3/31/04			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C.RACHAL	BY	DATE	
	Project Title		 <b>COX</b> <small>Research and Technology, Inc.</small>			PURCHASE ORDER NUMBER  P.O. Box 77808 Baton Rouge, LA 70809  DRAWING NUMBER CP-1775  SHEET NUMBER 6			
	SIMPLEX PUMP CONTROL PANEL								