
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL

MC DONALD CONSTRUCTION, INC.

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

CP-1948

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	2.7	
FLA	11.9	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER	JSV3C60-E2.7	

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	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

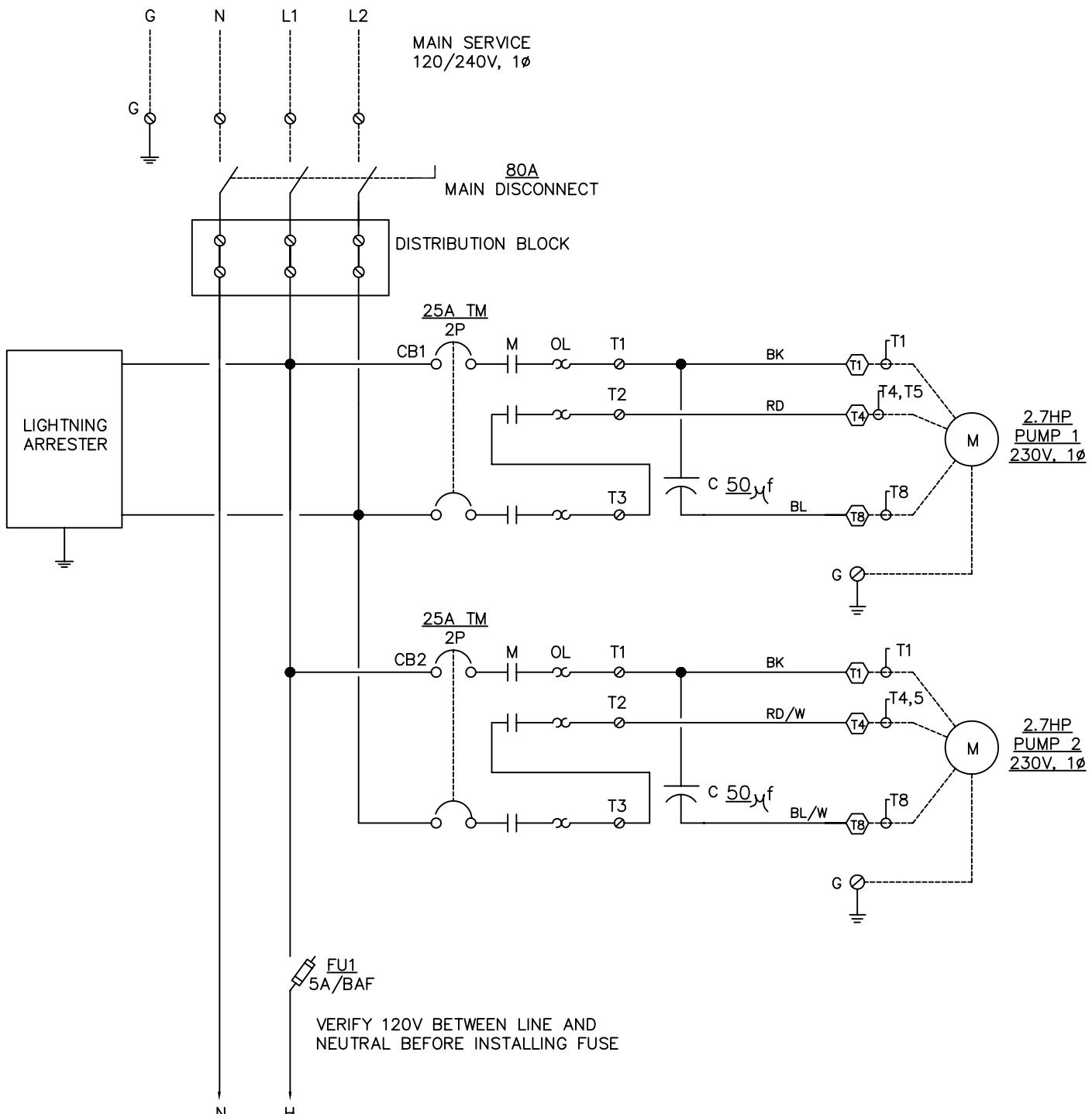
OPTIONS:

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

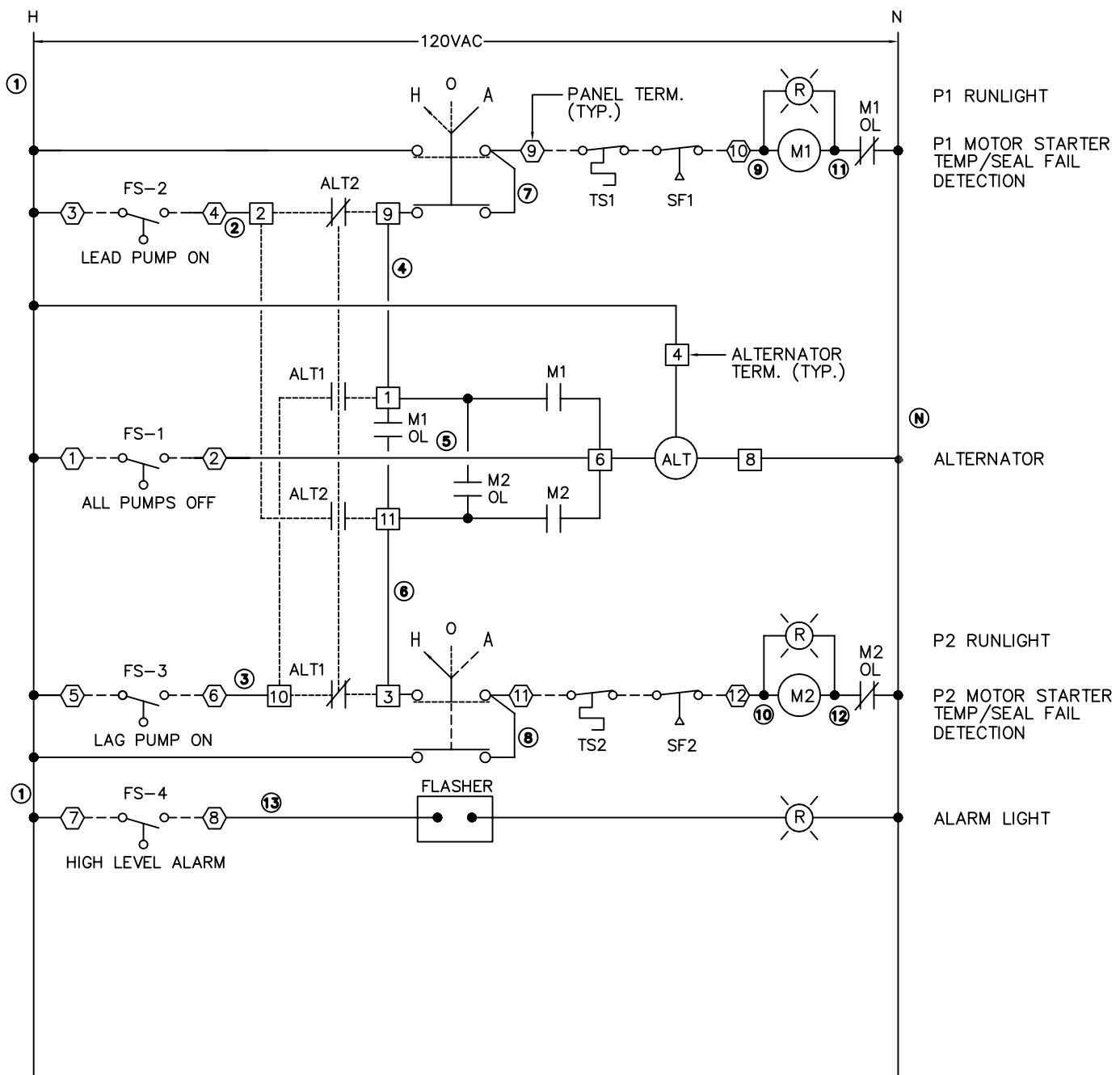
SOLD TO: Delta Process - New Orleans, LA
TAG : MC DONALD CONSTRUCTION , INC.

SHIP TO: Delta Process - Denham Springs, LA

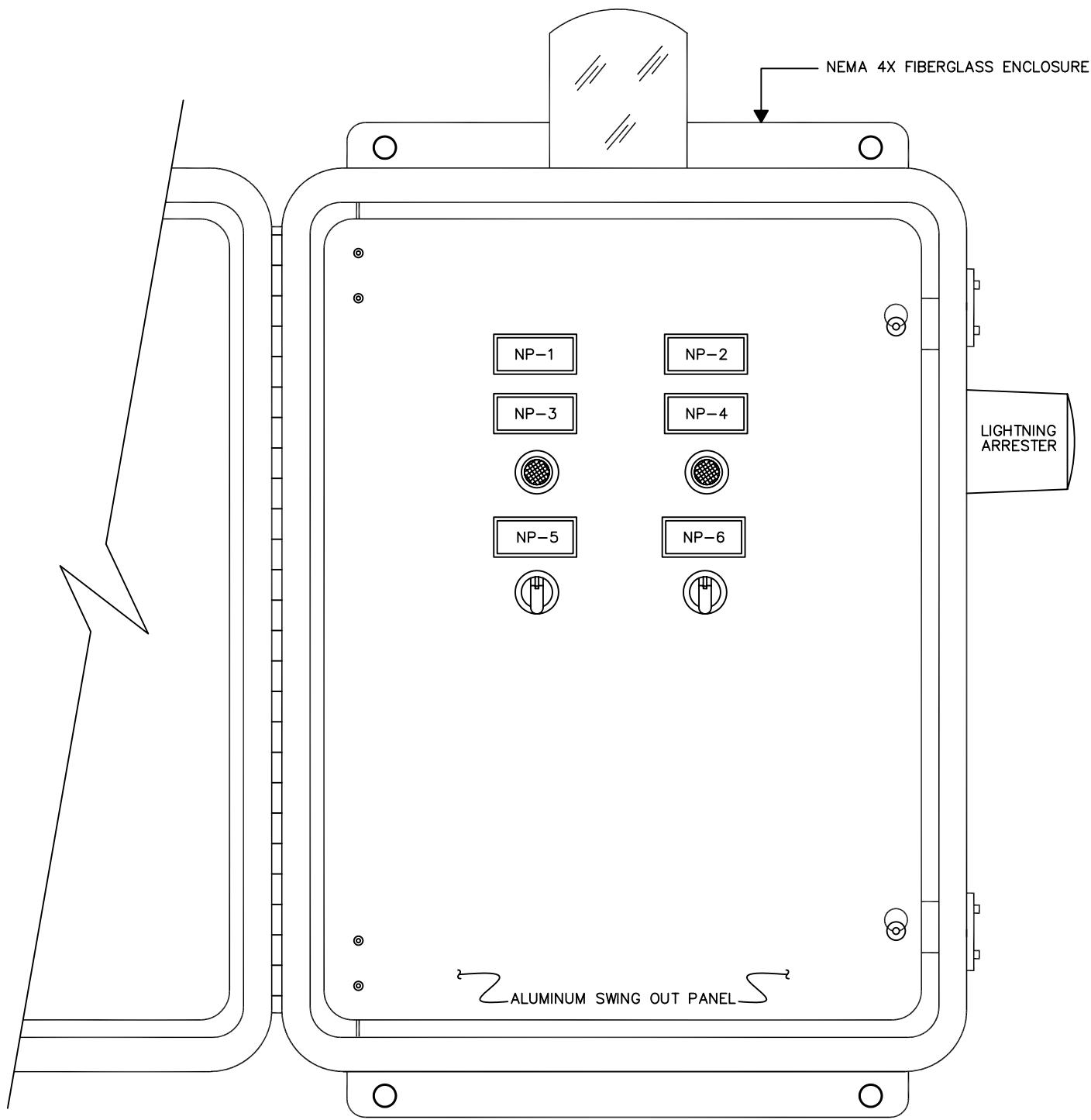
	Drawing Title PANEL DESCRIPTION								
		REFERENCE DRAWING S/N	DRAWING NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE BY	APPROVED	
DATE 11/05/04	Project Title DUPLEX PUMP CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809			PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)756-1030			DRAWING NUMBER CP-1948	
								SHEET NUMBER	1



	Drawing Title POWER DIAGRAM			
DATE 11/05/04	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 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-1948 SHEET NUMBER 2



	Drawing Title CONTROL DIAGRAM			
DATE 11/05/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN APPROVED DATE 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)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1948 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	

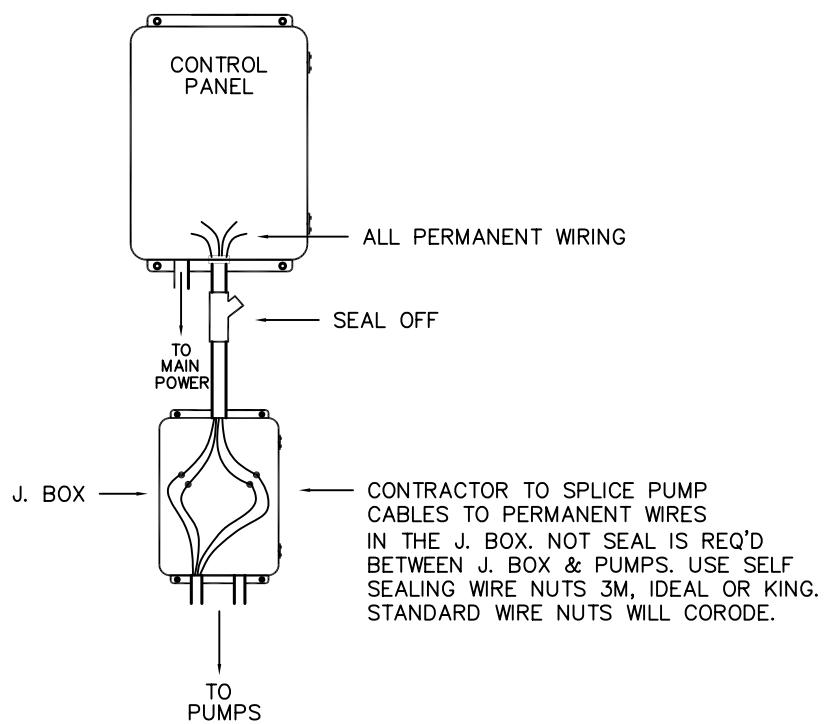
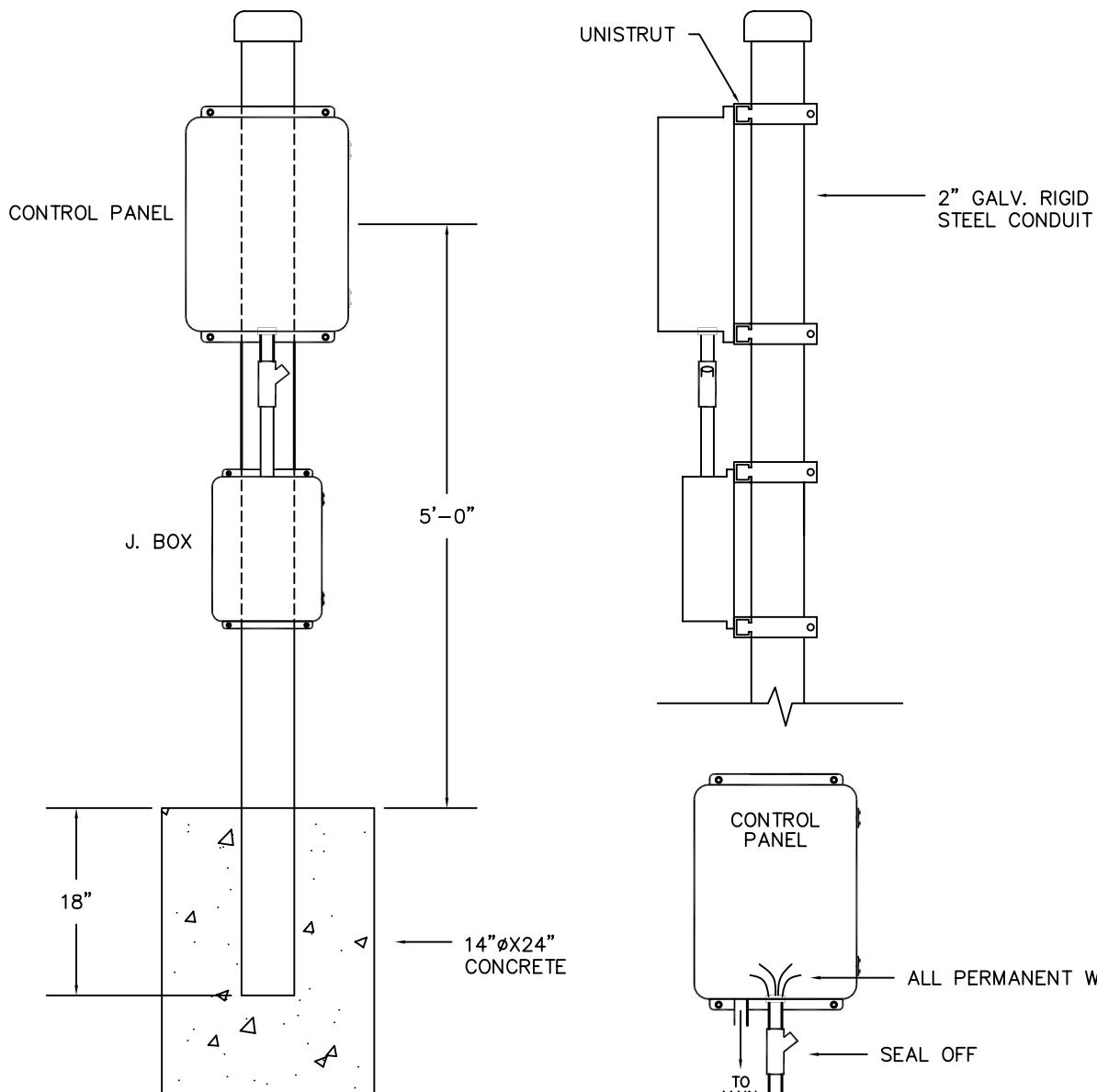
NOTE: SEWER GASES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASES.

	Drawing Title ENCLOSURE DATE 11/05/04						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED		
			BY C. RACHAL	BY	DATE		
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> 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-1948			
				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	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU14	O.L. RELAY (10-14A)
5	2	SQUARE D	QOU225	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	1	DELTA	LA302R	LIGHTNING ARRESTER
11	1	SSAC	FS126	FLASHER
12	1	STOCK		POLE, BOX, SEAL
13				
14				
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				

	Drawing Title BILL OF MATERIALS						
DATE 8/10/04	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 DUPLEX PUMP CONTROL PANEL	 Research and Technology, Inc. <hr/> <hr/>				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER	
						DRAWING NUMBER	
						SHEET NUMBER	
						CP-1948	
						5	



EXTERNAL CONNECTIONS
TO PUMPS

	Drawing Title				
MOUNTING DETAILS					
DATE 11/05/04	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 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-1948 SHEET NUMBER 6