
COX

Research and Technology, Inc.

DUPLEX SUBMERSIBLE PUMP
CONTROL PANEL
BARKER SUBDIVISION
STATION #1

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

CP-1712

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	6.2	
FLA	19.6	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted 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		

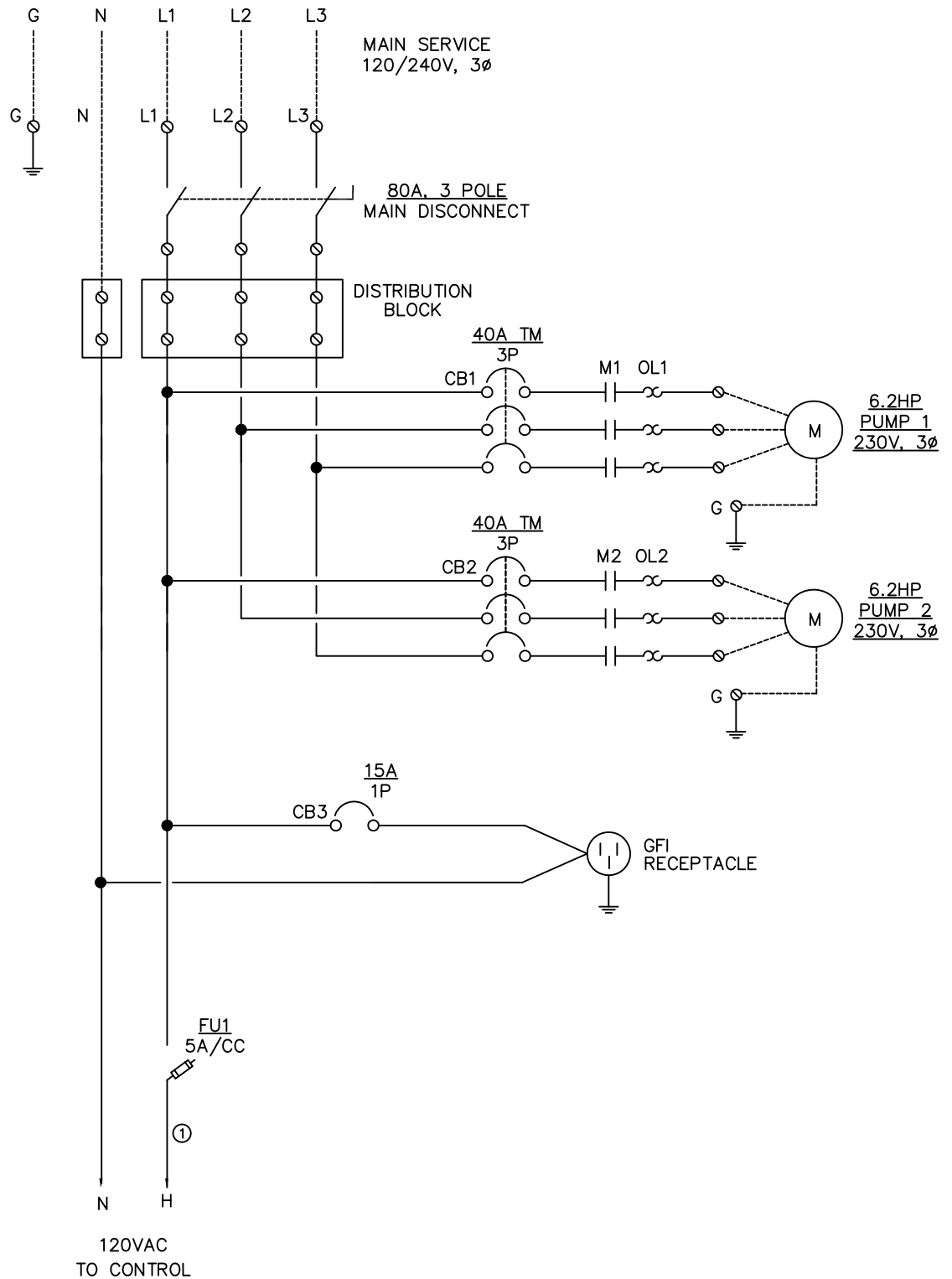
OPTIONS:

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

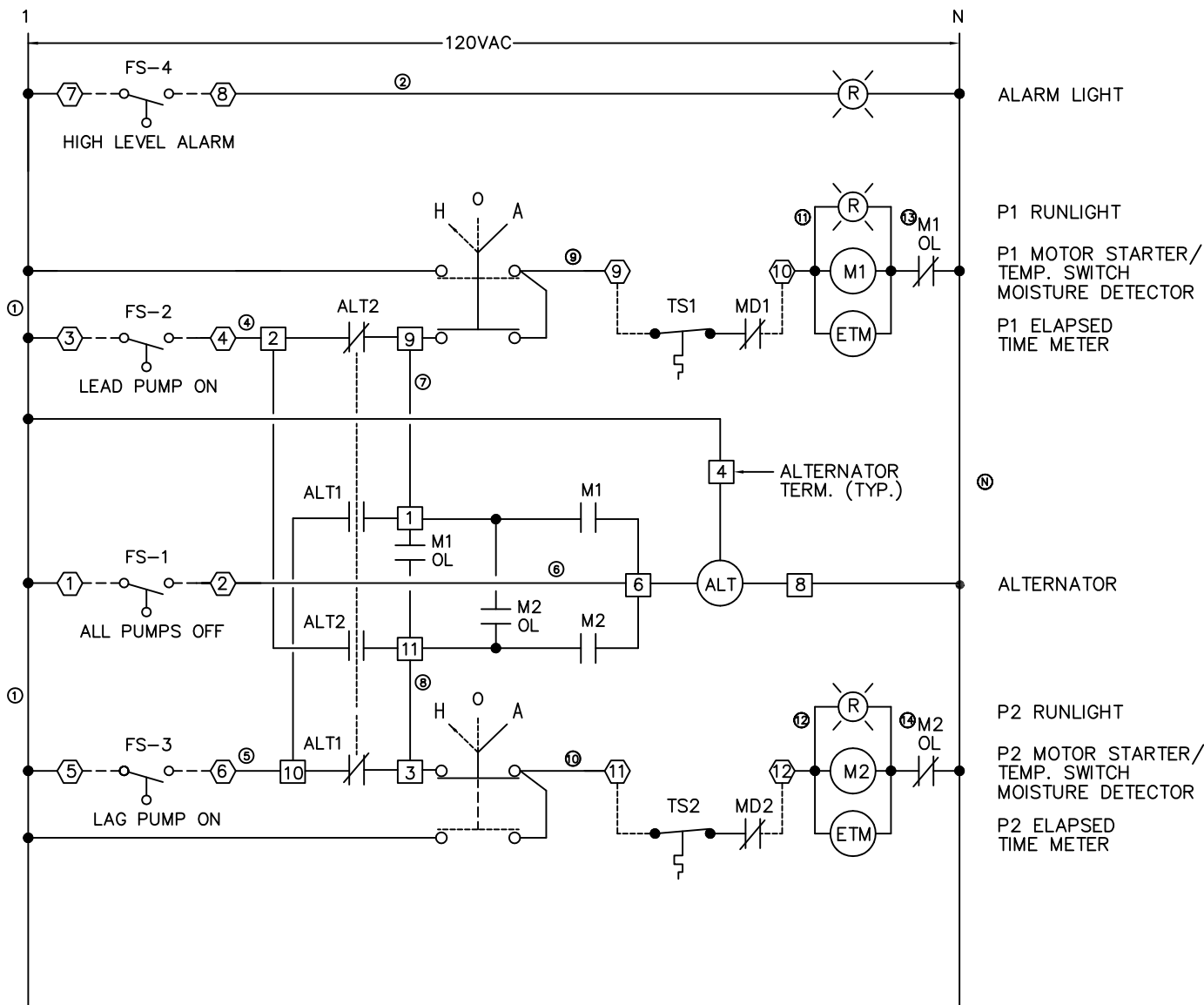
SOLD TO: Delta Process - Ruston, LA
TAG : BARKER SUBDIVISION
STATION #1

SHIP TO: Delta Process - Ruston, LA

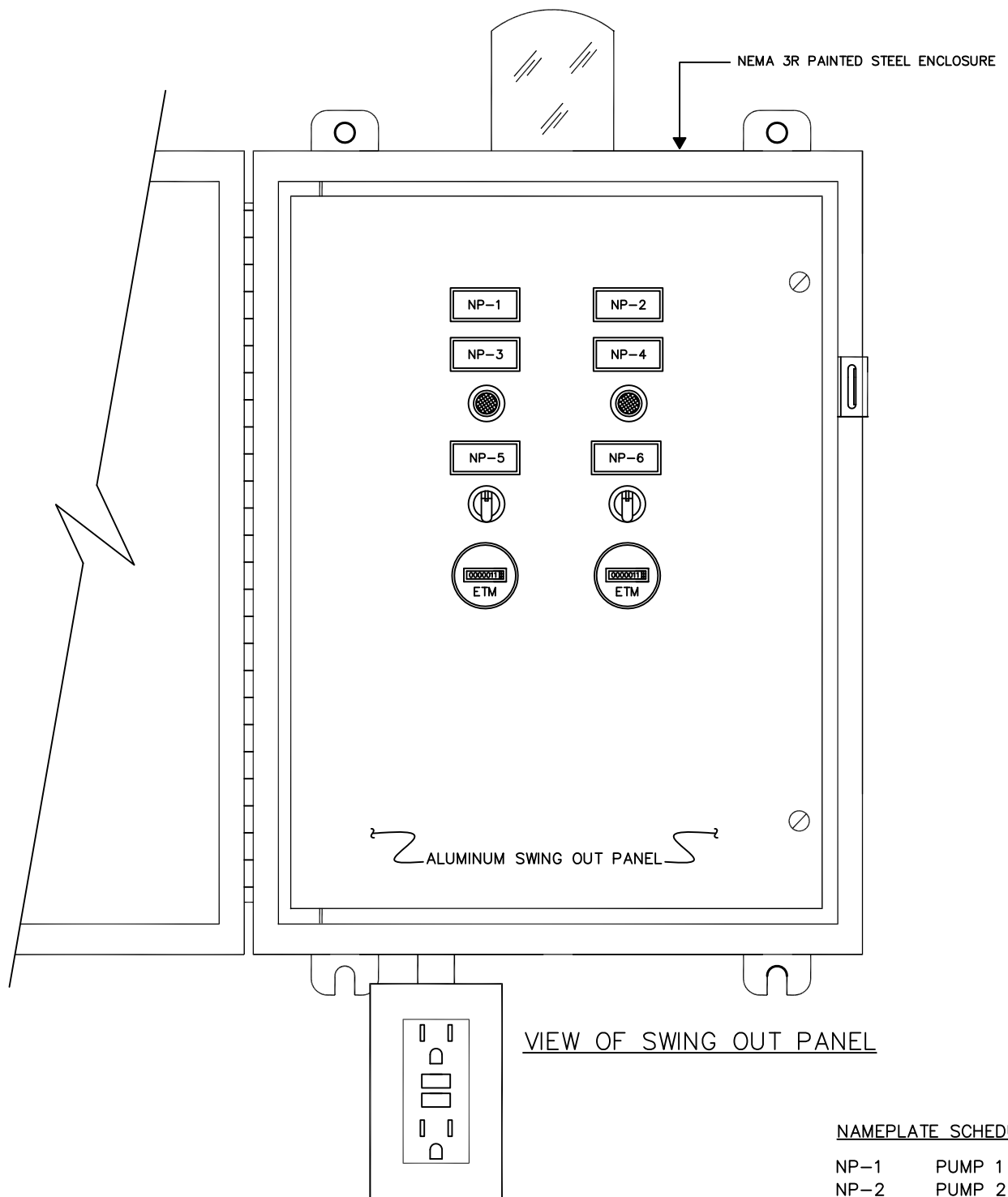
	Drawing Title							
	PANEL DESCRIPTION							
DATE 12/09/03			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title		<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1712 SHEET NUMBER 1
	SUBMERSIBLE PUMP CONTROL PANEL							



	Drawing Title							
	POWER DIAGRAM							
DATE 12/09/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title	PURCHASE ORDER NUMBER			APPROVED			
	SUBMERSIBLE PUMP CONTROL PANEL	DRAWING NUMBER CP-1712			SHEET NUMBER			
		SHEET NUMBER			2			



DATE 12/09/03	Drawing Title							
	CONTROL DIAGRAM							
	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	
	S/N		Sales Engineer C.C.		Application Engineer R.C.		BY C. RACHAL	
Project Title								PURCHASE ORDER NUMBER
SUBMERSIBLE PUMP CONTROL PANEL								DRAWING NUMBER CP-1712
								SHEET NUMBER 3

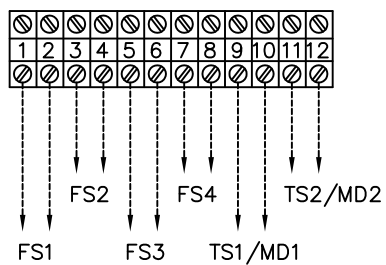
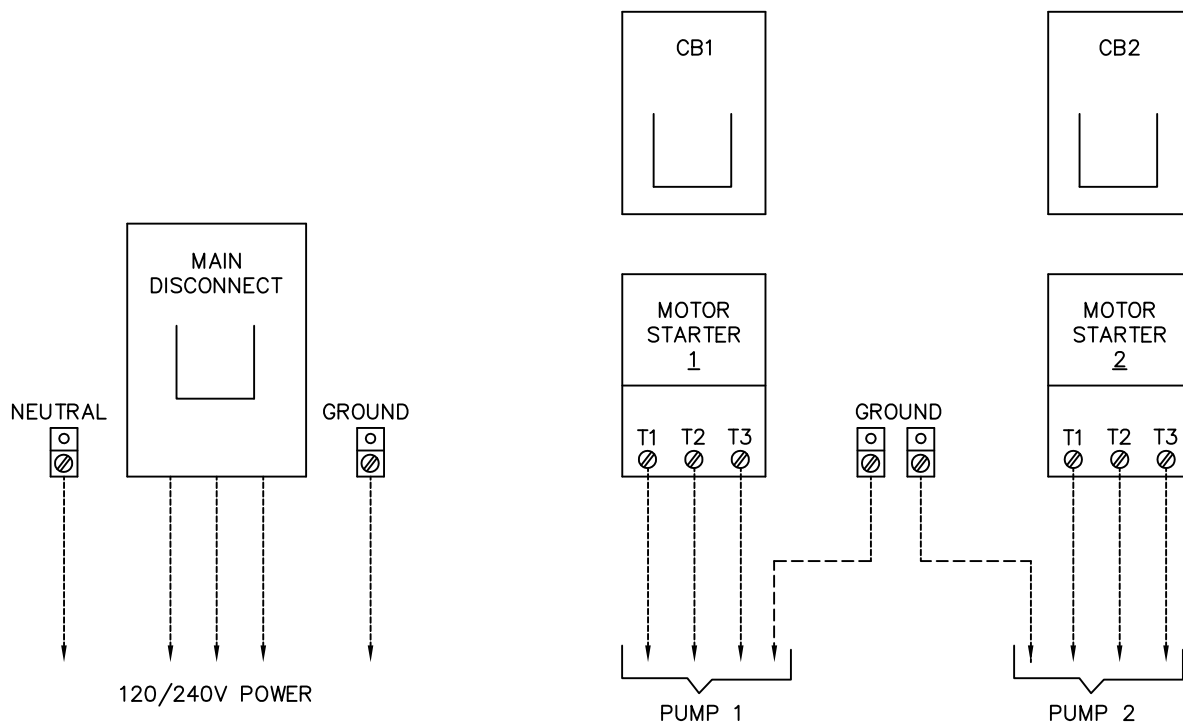


NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA

DATE 12/09/03	Drawing Title							
	ENCLOSURE							
		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	
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	SUBMERSIBLE PUMP CONTROL PANEL	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1712		
						SHEET NUMBER 4		



FS1 – FLOAT SWITCH 1
 ALL PUMPS OFF
 FS2 – FLOAT SWITCH 2
 LEAD PUMP ON
 FS3 – FLOAT SWITCH 3
 LAG PUMP ON
 FS4 – FLOAT SWITCH 4
 HIGH LEVEL ALARM
 TS1/MD1 – TEMP. SWITCH/MOISTURE DETECTOR 1
 TS2/MD2 – TEMP. SWITCH/MOISTURE DETECTOR 2

	Drawing Title								
	EXTERNAL CONNECTIONS								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
12/09/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED			
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	SUBMERSIBLE PUMP CONTROL PANEL	<div>COX</div> Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1712			
						SHEET NUMBER 5			

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010REPL	ENCLOSURE
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26N1-30-10-84	MOTOR STARTER NEMA SZ 1
4	2	ABB	TA25DU25	O.L. RELAYS (18-25A)
5	2	SQUARE D	QOU340	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	1	AC/DC	BL5R120	ALARM LIGHT
9	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
10	2	ACI	JR22P3M20B	HOA SWITCH
11	1	MARATHON	1323580	DISTRIBUTION BLOCK
12	1	MARATHON	1321580	DISTRIBUTION BLOCK
13	1	STOCK		GFI RECEPTACLE
14	1	SQUARE D	QOU115	CB3
15				
16				
17				
18				
19				
20				

	Drawing Title						
	BILL OF MATERIALS						
DATE 12/09/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE BY
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> COX <small>Research and Technology, Inc.</small> </div>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER <div style="text-align: right;">CP-1712</div> SHEET NUMBER <div style="text-align: right;">5</div>	
	Project Title	DUPLEX PUMP CONTROL PANEL					