
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
MARKSVILLE

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

CP-2215

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>60</u>	
FLA	<u>77</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>GR</u>	
CATALOG NUMBER	<u></u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 3R</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Painted Steel</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Submersible Transducer</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	

OPTIONS:

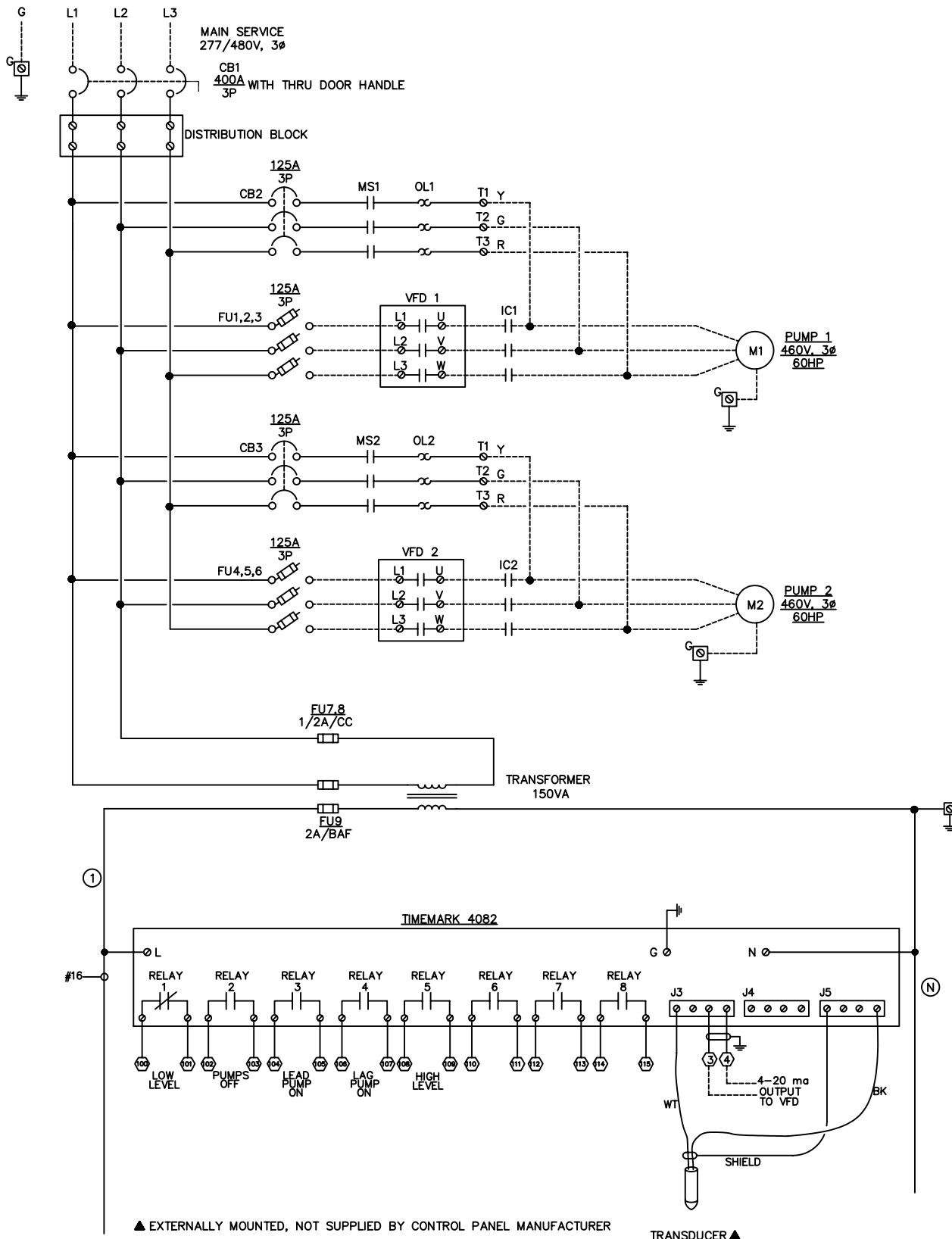
SEAL FAIL LIGHTS	<u></u>	(Submersible Only)
SEAL FAIL RELAYS	<u></u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u></u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN	<u></u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u></u>	
LIGHT REMOTE MTD	<u>X</u>	
LIGHT FLASHER	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

SOLD TO: Delta Process - Ruston, LA

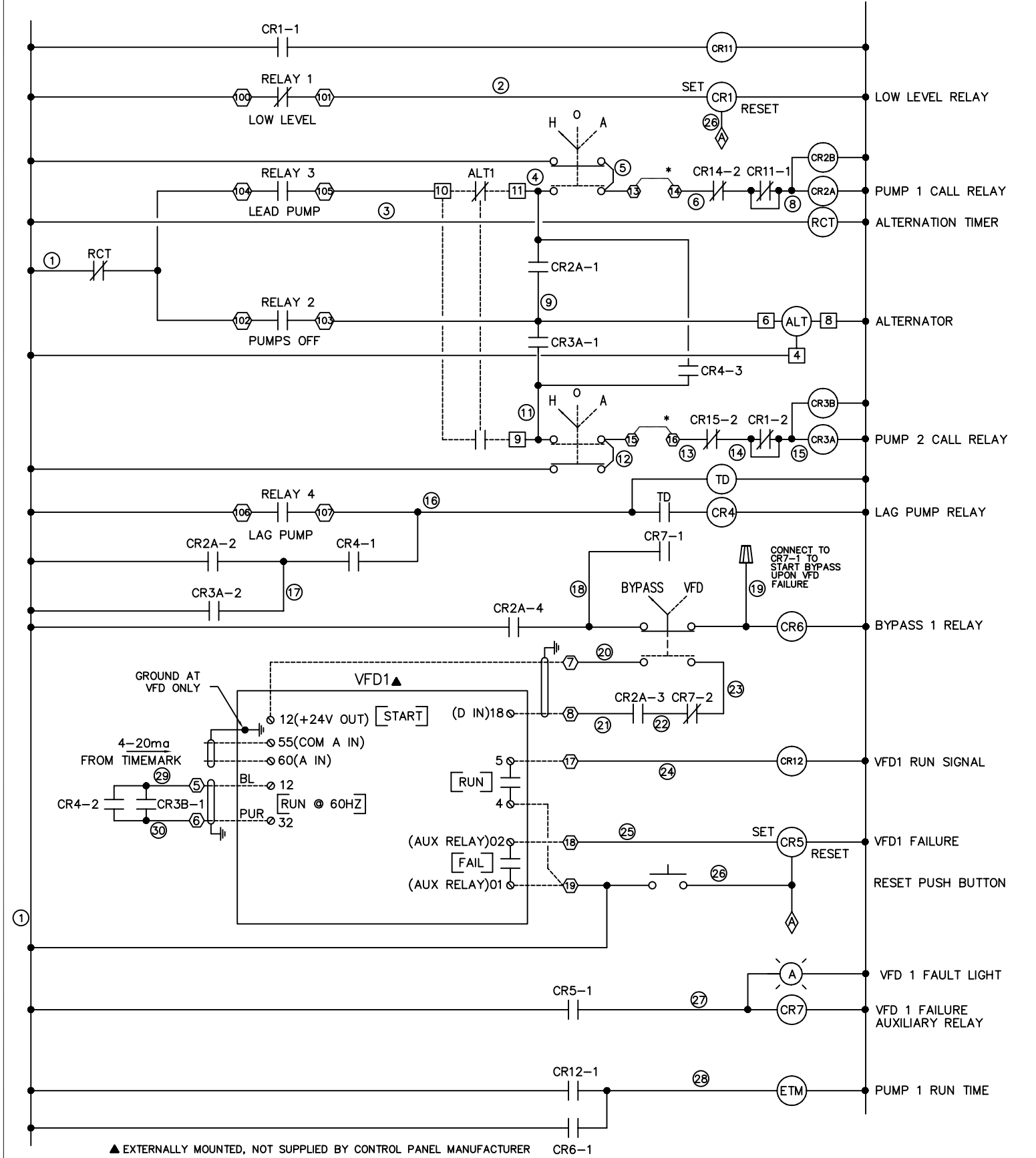
TAG : Marksville

SHIP TO: Delta Process - Ruston, LA

	Drawing Title							
	PANEL DESCRIPTION			2	FIELD REVISIONS		7/12/06	
				1	MISC		5/31/06	
DATE			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE
7/13/06			S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY
	Project Title		<div style="text-align: center;"> COX Research and Technology, Inc. </div>			PURCHASE ORDER NUMBER		
	<div style="text-align: center;"> DUPLEX PUMP CONTROL PANEL </div>					DRAWING NUMBER		
						CP-2215		
			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030			SHEET NUMBER		
						1		



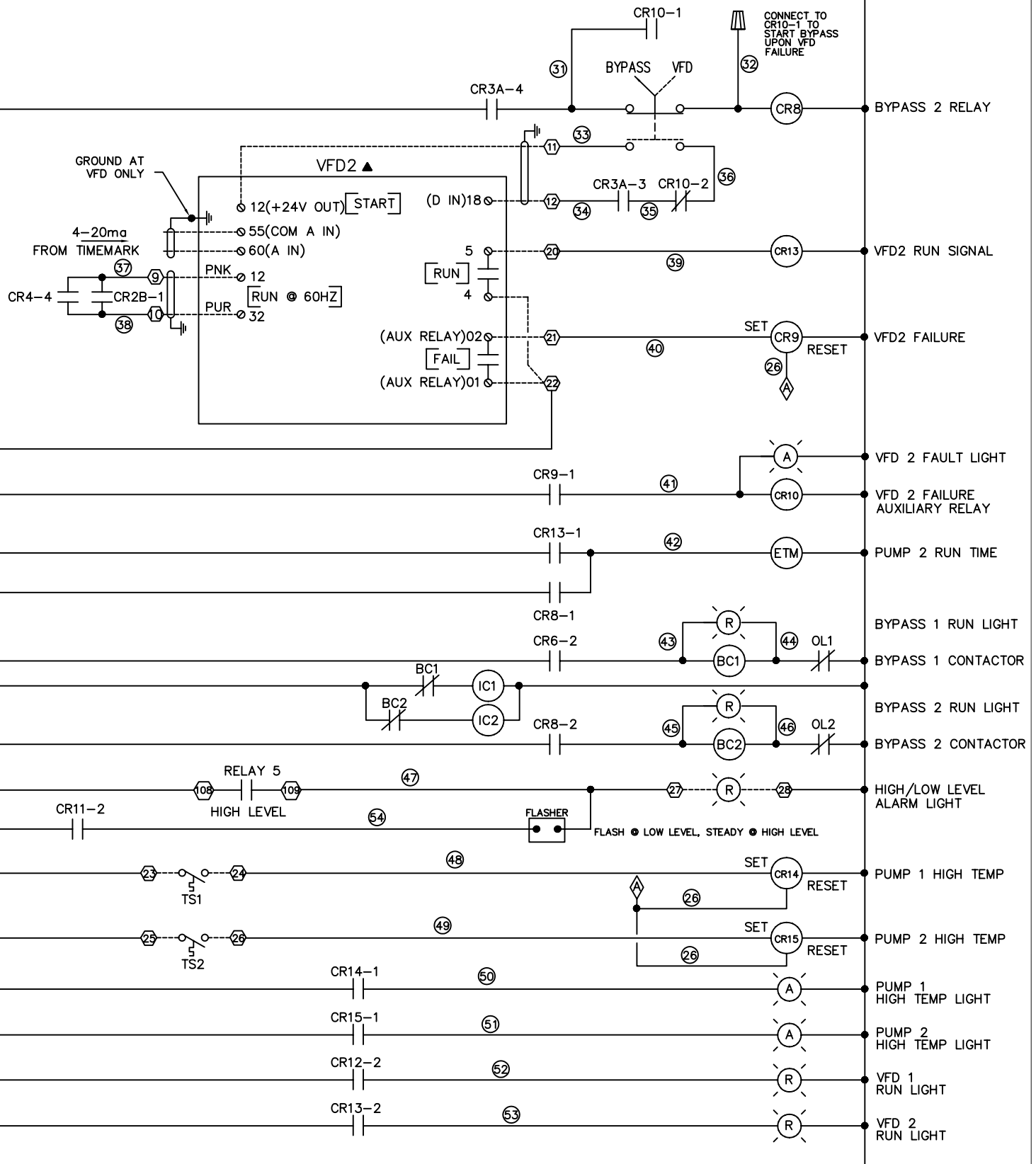
	Drawing Title <	
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Drawing Title		2		FIELD REVISIONS		7/12/06	
CONTROL DIAGRAM		1		MISC		5/31/06	
DATE		S/N		REFERENCE DRAWING		ECN	DATE
7/13/06		Sales Engineer		NO.		DATE	BY
		C.C.		Application Engineer		BY	APPROVED
Project Title		C.OX		R.C.		BY	DATE
DUPLUX PUMP CONTROL PANEL		Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER	
						CP-2215	
						SHEET NUMBER	
						3	

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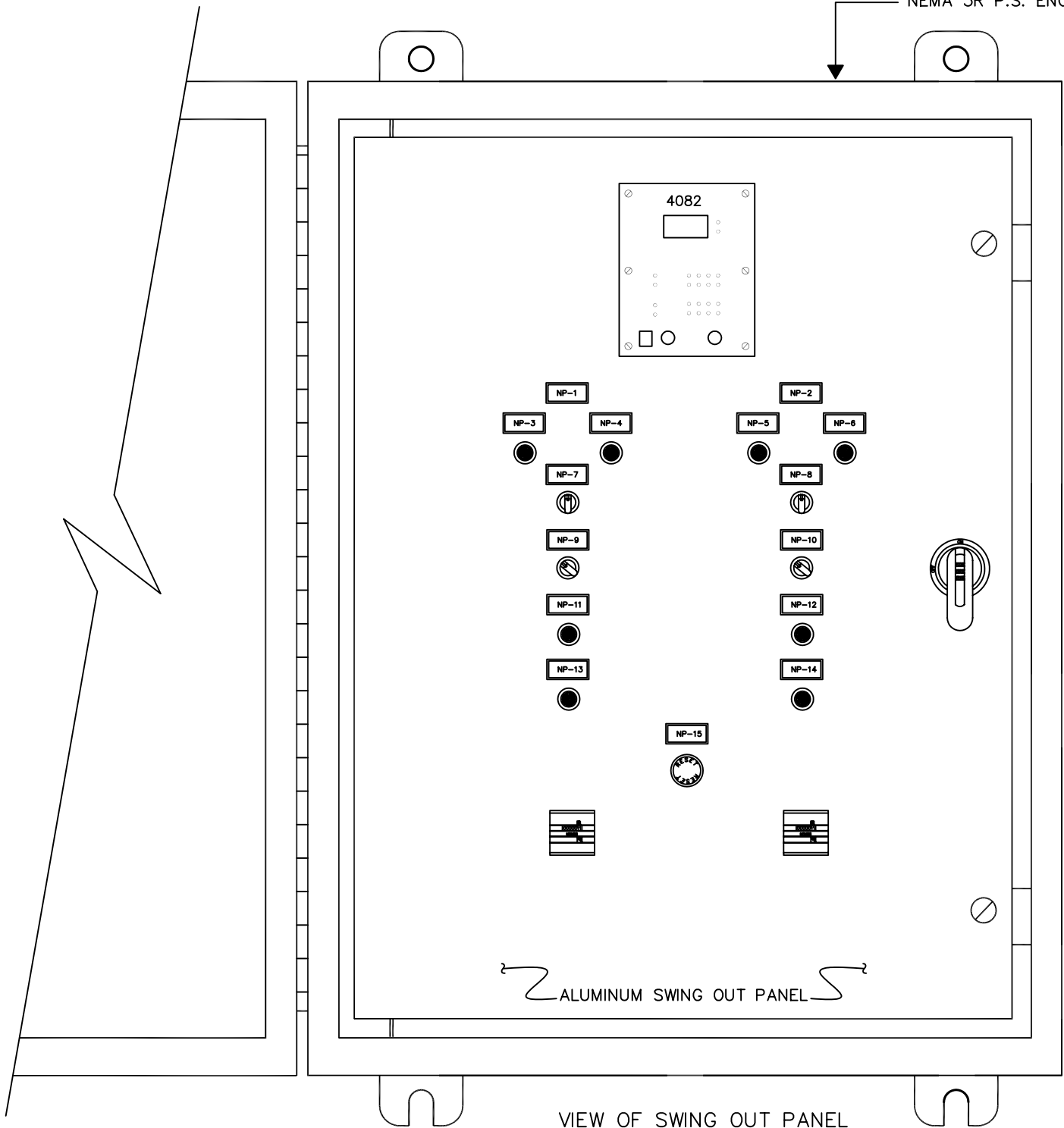
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▲ EXTERNALLY MOUNTED, NOT SUPPLIED BY CONTROL PANEL MANUFACTURER

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CONTROL DIAGRAM		1		MISC		5/31/06	
DATE		S/N		REFERENCE DRAWING		NO.	
7/13/06		Sales Engineer		Application Engineer		REVISION-LOCATION	
Project Title		C.C.		R.C.		ECN	
DUPLUX PUMP CONTROL PANEL		BY C. RACHAL		APPROVED		DATE	
		P.O. Box 77808		Baton Rouge, LA		PURCHASE ORDER NUMBER	
		70809				DRAWING NUMBER	
		Ph. (225)756-3271		Fax (225)755-1030		CP-2215	
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						4	

NEMA 3R P.S. ENCLOSURE



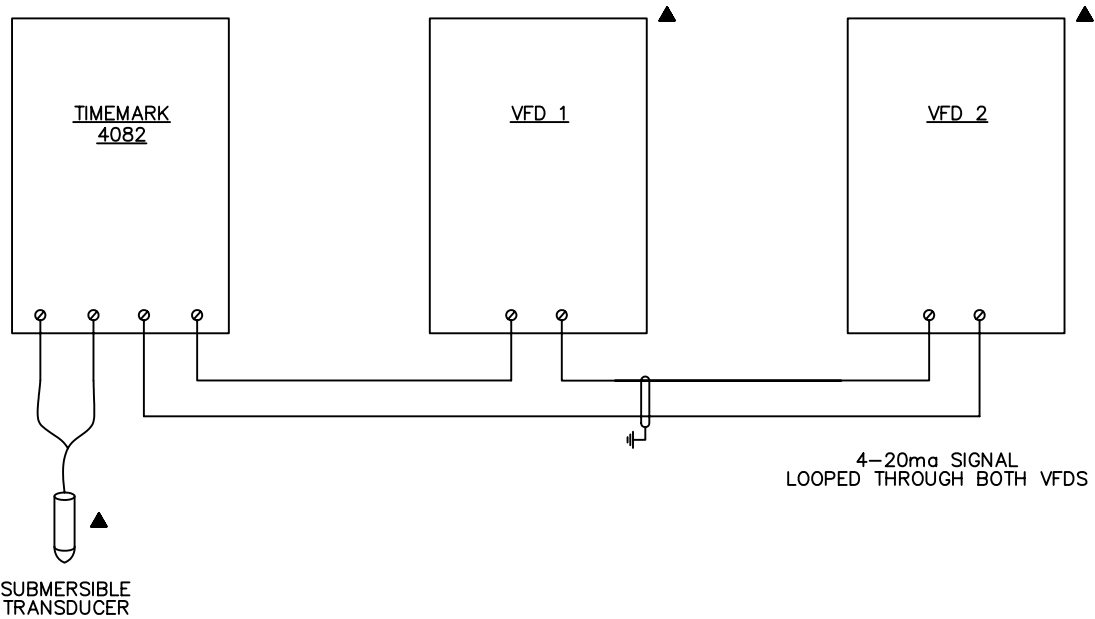
VIEW OF SWING OUT PANEL

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-11	VFD FAULT
NP-2	PUMP 2	NP-12	VFD FAULT
NP-3	VFD RUN	NP-13	HIGH TEMP
NP-4	BYPASS RUN	NP-14	HIGH TEMP
NP-5	VFD RUN	NP-15	ALARM RESET
NP-6	BYPASS RUN		
NP-7	HOA		
NP-8	HOA		
NP-9	VFD BYPASS		
NP-10	VFD BYPASS		

	Drawing Title ENCLOSURE			2	FIELD REVISIONS			7/12/06		
				1	MISC			5/31/06		
			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 7/13/06			S/N	Sales Engineer C.C.	Application Engineer R.C.		DRAWN		APPROVED	
	Project Title DUPLEX PUMP CONTROL PANEL		<div><div></div><div>COX</div><div>Research and Technology, Inc.</div><div></div></div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2215 SHEET NUMBER 5		



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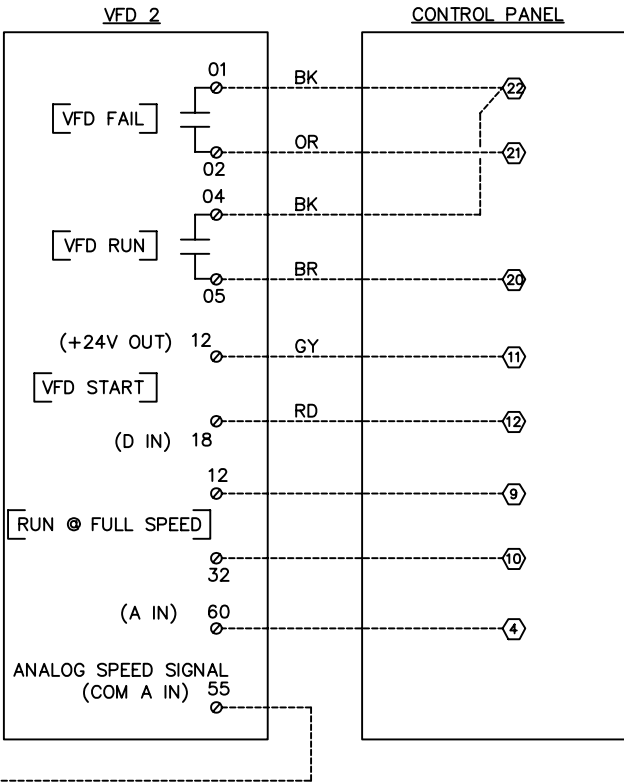
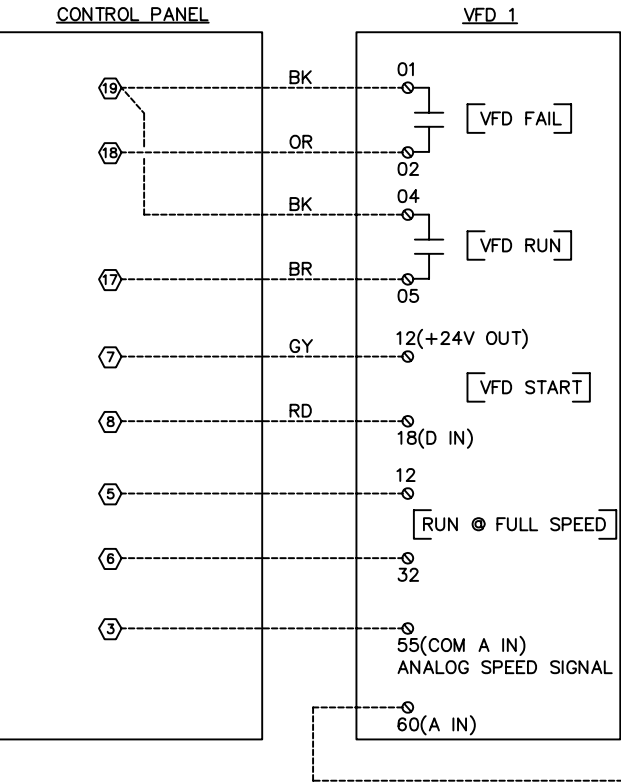
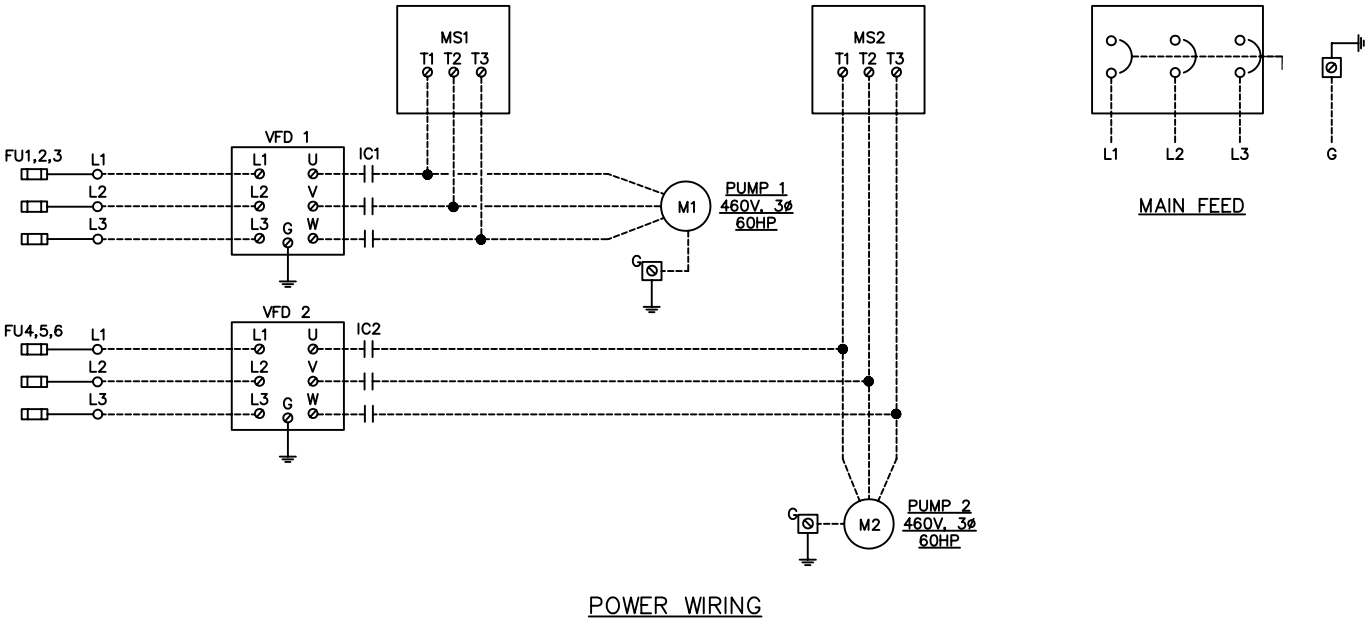
	Drawing Title						
	DIAGRAM		2	FIELD REVISIONS		7/12/06	
			1	MISC		5/31/06	
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
7/13/06		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLIX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2215	
						SHEET NUMBER	
						6	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	C-483610RHPL	ENCLOSURE
1a	1	C&I	CI-4836P	BACKPLATE
1b	1	C&I	CI-4836SPA	DEAD FRONT
2	1	ABB	S5H400DW	MOLDED CASE SWITCH
3	4	ABB	A75-30-11-84	MOTOR STARTERS
4	2	ABB	TA75DU80	OVERLOAD 1,2
5	2	ABB	S3N125TW	CB2, CB3
6	1	ABB	T4150PSF-1	TRANSFORMER
7	1	TIMEMARK	261DT120	ALTERNATING RELAY
8	4	A-B	800H-QR10R	RED PILOT LIGHT
9	2	A-B	800H-JR2A	HOA SWITCH
10	1	ABB	K5VDM	MECHANICAL OPERATOR
11	1	ABB	OXP10X225	SHAFT
12	1	ABB	OHB95J10	HANDLE
13	2	A-B	800H-HR2A	2 POSITION SWITCH
14	4	ABB	K4TD	BREAKER LUGS
15	2	ABB	K5TG	BREAKER LUGS
16	4	A-B	800H-QR10A	AMBER PILOT LIGHT
17	2	REDINGTON	711-0190	ELAPSED TIME METER
18	5	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
19	1	A-B	800H-AR2A	PUSH BUTTON
20	1	TIMEMARK	4082	LIQUID LEVEL CONTROLLER
21	1	OMRON	H3CRF8300	RCT
22	11	IDEC	RU4S-A110	CONTROL RELAYS
23	2	REDINGTON	711-0190	ELAPSED TIME METER
24	1	OMRON	H3YN2AC120	TIME DELAY RELAY
25				
26				
18				
19				
20				
21				
22				
23				
24				
25				

[illegible]

COX RESEARCH DID NOT SUPPLY THE VFD'S FOR THIS PROJECT.
VERIFY CONNECTIONS WITH DANFOSS SUPPORT.



VFD 1
CONTROL WIRING

VFD 2
CONTROL WIRING

Drawing Title		2		FIELD REVISIONS		7/12/06	
WIRING DIAGRAMS		1		MISC		5/31/06	
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION	
7/13/06		S/N		Sales Engineer		Application Engineer	
Project Title		C.C.		R.C.		DRAWN	
DUPLIX PUMP CONTROL PANEL		BY C. RACHAL		APPROVED		PURCHASE ORDER NUMBER	
						BY	
						DATE	
						DRAWING NUMBER	
						CP-2215	
						SHEET NUMBER	
						8	