
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
ARROWWOOD

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

CP-2341-R3

VOLTAGE	120/240	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	25	
FLA	68	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Flowmeter	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

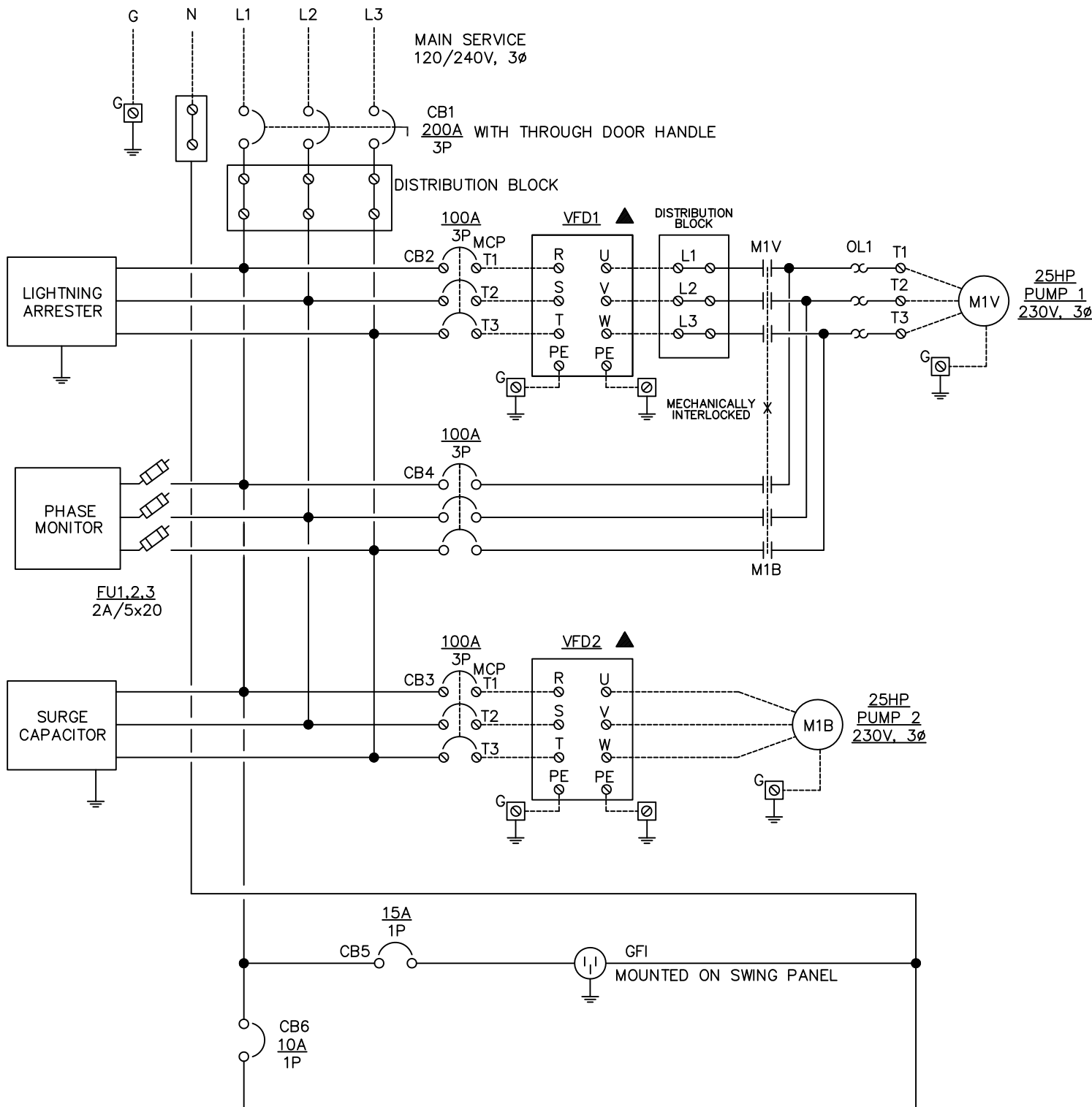
OPTIONS:

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

SOLD TO: Delta Process - New Orleans, LA
TAG : ARROWWOOD

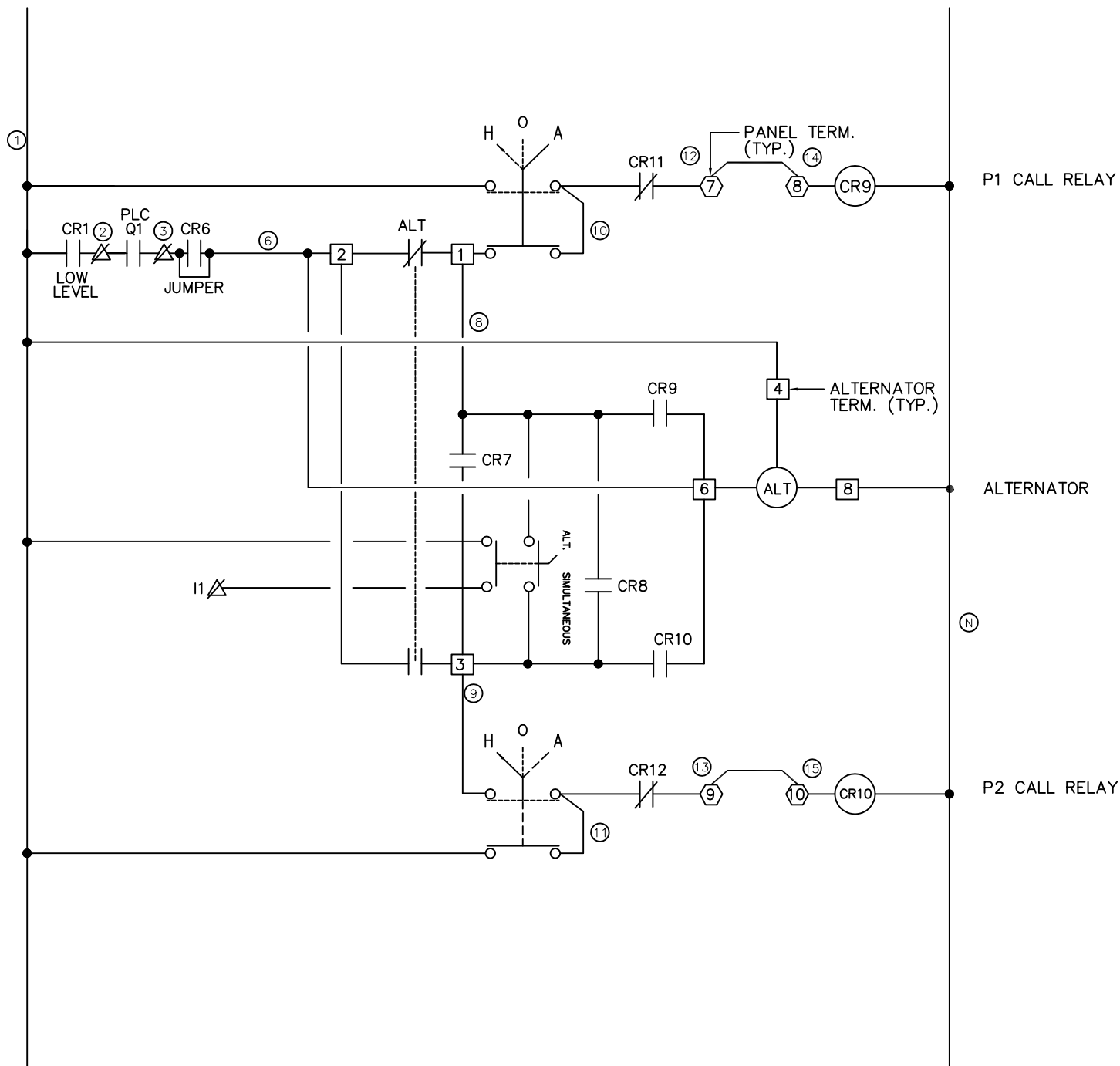
SHIP TO: Delta Process - Ruston, LA

	Drawing Title				R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
					R2	PLC MONITORING		07/18/07	HNB
					R3	TDS, OTHER CHANGES		08/14/07	HNB
		REFERENCE DRAWING			NO.	REVISION-LOCATION		ECN	DATE
DATE 08/14/07		S/N	Sales Engineer C.C.	Application Engineer R.C.		DRAWN		APPROVED	
						BY COREYC		BY	DATE
	Project Title					P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2341r3	
								SHEET NUMBER 1	

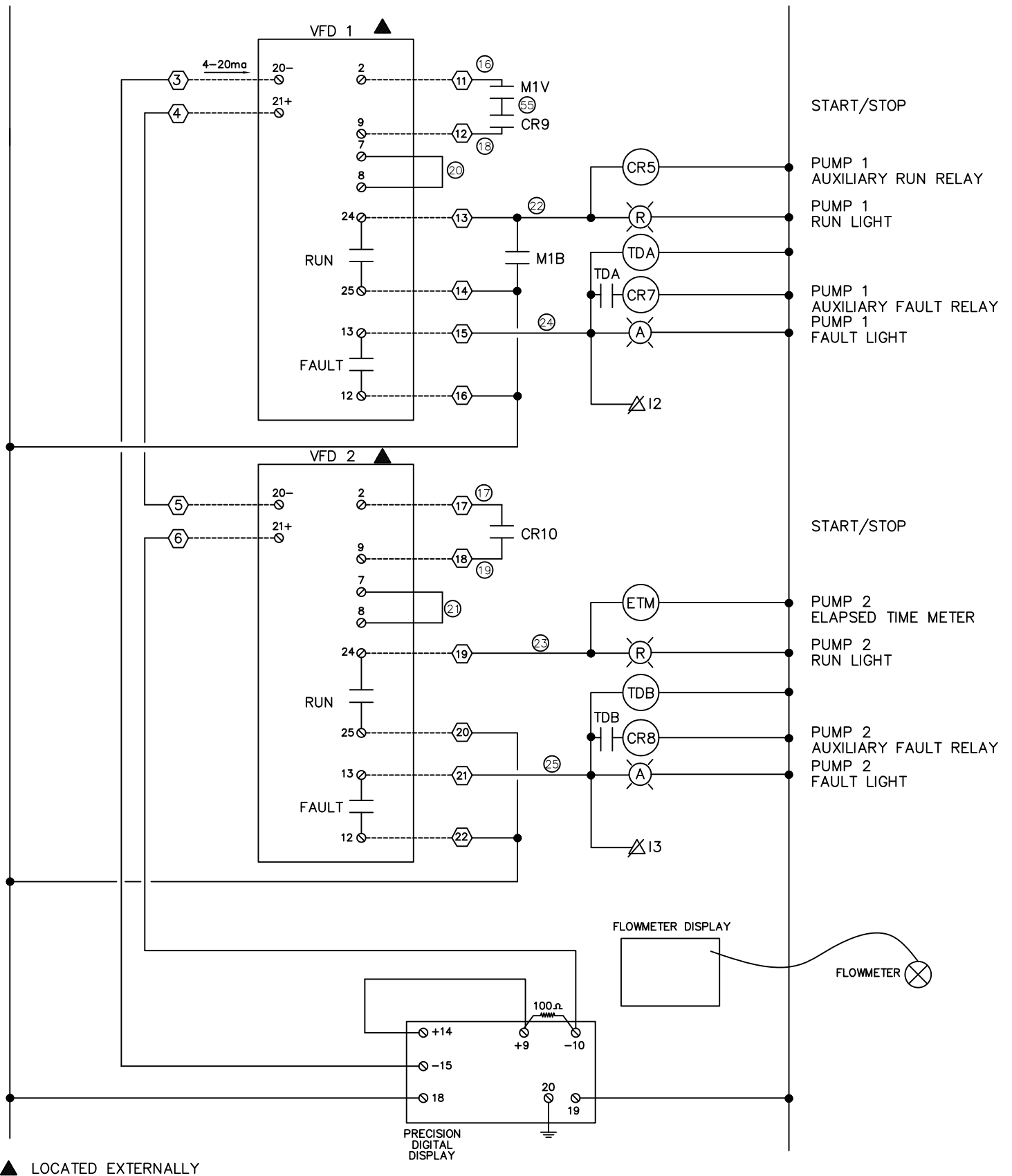


▲ LOCATED EXTERNALLY

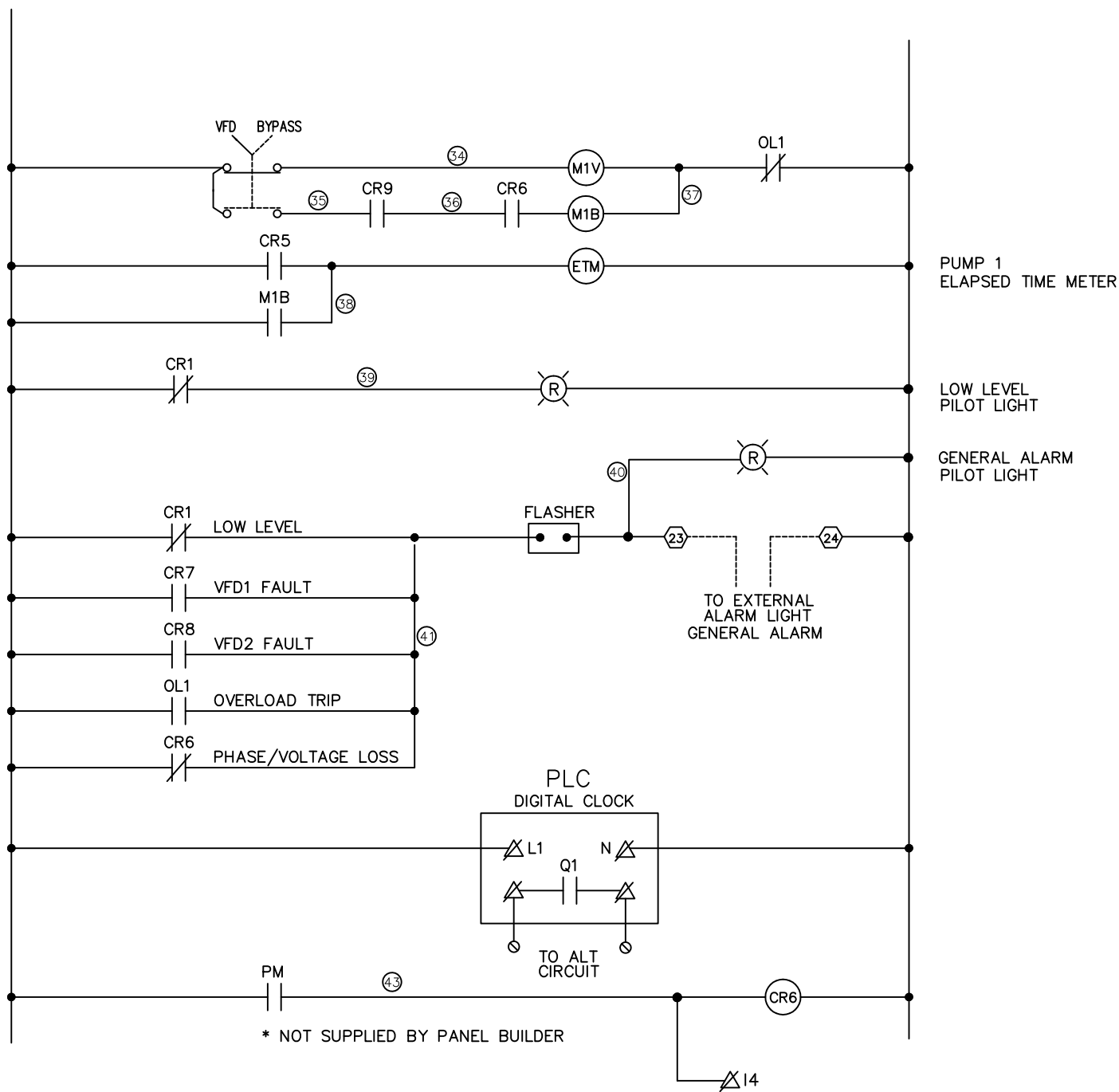
DATE 08/14/07	Drawing Title POWER DIAGRAM		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
			R2	PLC MONITORING		07/18/07	HNB
			R3	TDS, OTHER CHANGES		08/14/07	HNB
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN
Project Title		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY COREYC		APPROVED BY
DUPLEX PUMP CONTROL PANEL		<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
					Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2341r3
							SHEET NUMBER 2



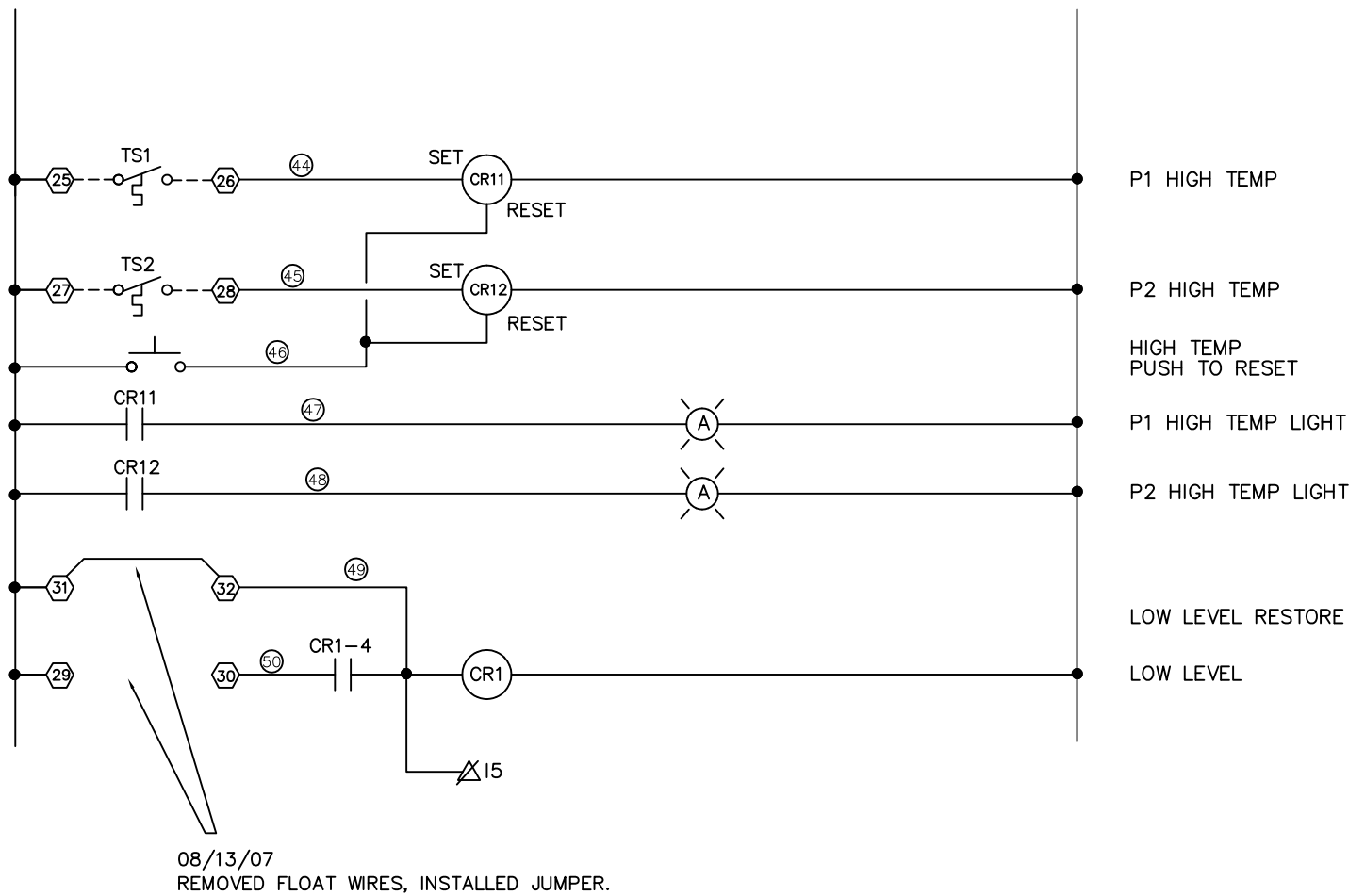
DATE 08/14/07	Drawing Title CONTROL DIAGRAM		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
			R2	PLC MONITORING		07/18/07	HNB
			R3	TDS, OTHER CHANGES		08/14/07	HNB
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN
Project Title		Sales Engineer C.C.		Application Engineer R.C.		DRAWN BY COREYC	
DUPLEX PUMP CONTROL PANEL		<div>COX</div> <div>Research and Technology, Inc.</div>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		APPROVED BY	
						DATE	
						PURCHASE ORDER NUMBER	
						DRAWING NUMBER CP-2341r3	
						SHEET NUMBER 3	



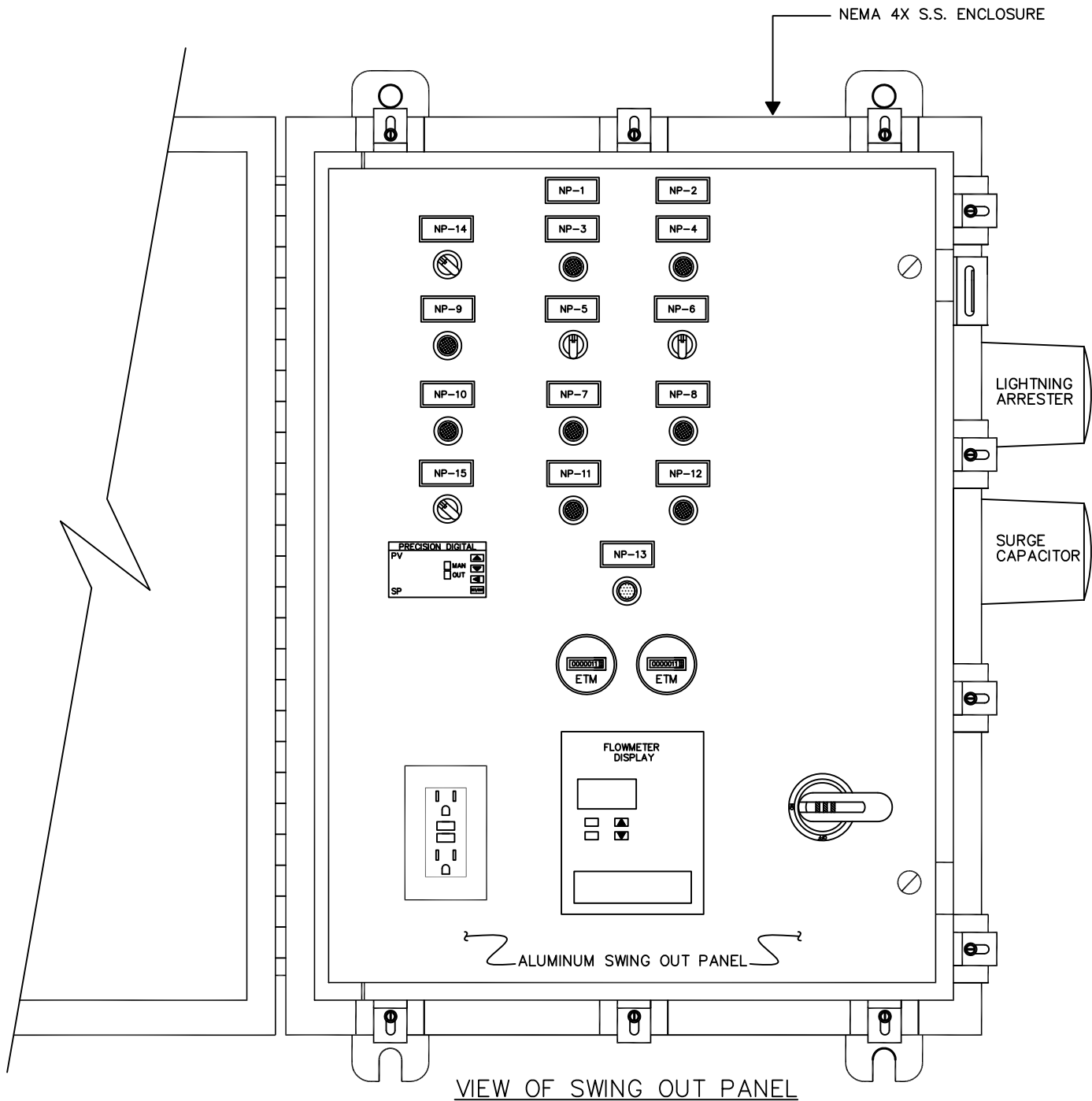
	Drawing Title 	
--	---	--



	Drawing Title CONTROL DIAGRAM		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
			R2	PLC MONITORING		07/18/07	HNB
			R3	TDS, OTHER CHANGES		08/14/07	HNB
DATE 08/14/07		REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY COREYC		APPROVED BY DATE	
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL						DRAWING NUMBER CP-2341r3
							SHEET NUMBER
							5



	Drawing Title <div>CONTROL DIAGRAM</div>		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB		
			R2	PLC MONITORING		07/18/07	HNB		
			R3	TDS, OTHER CHANGES		08/14/07	HNB		
DATE 08/14/07		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY COREYC		APPROVED BY DATE		
	Project Title <div>DUPLEX PUMP CONTROL PANEL</div>	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341r3 SHEET NUMBER 6		



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1	NP-9	ALARM
NP-2	PUMP 2	NP-10	LOW LEVEL
NP-3	RUN	NP-11	HIGH TEMP
NP-4	RUN	NP-12	HIGH TEMP
NP-5	HOA	NP-13	HIGH TEMP RESET
NP-6	HOA	NP-14	VFD BYPASS
NP-7	VFD FAULT	NP-15	ALTERNATE - SIMULTANEOUS
NP-8	VFD FAULT		

▲ DISPLAY SUPPLIED BY DELTA PROCESS

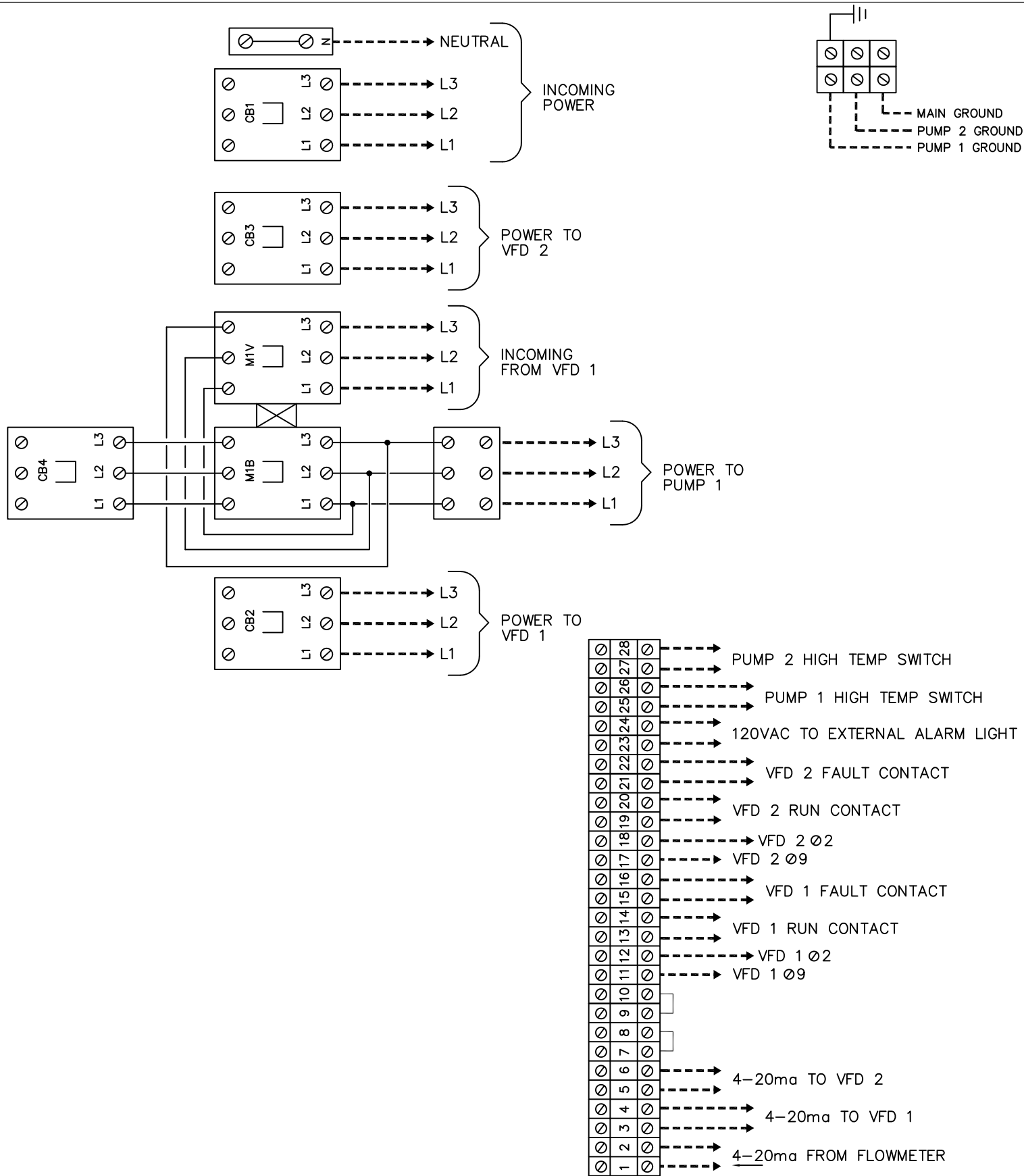
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

DATE 08/14/07	Drawing Title ENCLOSURE		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
			R2	PLC MONITORING		07/18/07	HNB
			R3	TDS, OTHER CHANGES		08/14/07	HNB
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN
Project Title		Sales Engineer		Application Engineer		APPROVED	
DUPLEX PUMP CONTROL PANEL		C.C.		R.C.		BY	DATE
		COX 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-2341r3	
						SHEET NUMBER 7	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	CI-363010N4X	ENCLOSURE
1a	1	C & I	C-3630P	BACKPLATE
1b	1	C & I	C-3630SPA	DEAD FRONT
2	1	ABB	S3N200TW	CB1
3	1	ABB	K5VDM	MECHANISM
4	1	ABB	OXP10X225	SHAFT
5	1	ABB	OHB65L10	HANDLE
6	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
7	1	BUSSMAN	16371-1	NEUTRAL BLOCK
8	2	ABB	S3N100MW	CB2,3
9	1	ABB	S3N100TW	CB4
10	1	ABB	A75N3M-11-84	MECH. INTERLOCKED CONTACTOR
11	1	ABB	TA75DU80	OL (60-80A)
12	1	ABB	DB80	OL SP. MT. KIT
13	1	DELTA	LA603	LIGHTNING ARRESTOR
14	1	SSAC	PLMU-11	PHASE MONITOR
15	1	DELTA	CA603	SURGE ARRESTOR
16	2	A-B	20AB070C3AYNANCO	4XVFD
17	1	SQUARE D	QOU115	CB5
18	1	SQUARE D	QOU110	CB6
19	1	TIMEMARK	261DT120	ALTERNATOR
20	7	IDEC	RU4SA110	RELAYS 110AC
21	2	A-B	800H-JR2A	HOA
22	4	A-B	800H-QR10R	RED PILOT LIGHT
23	4	A-B	800H-QR10A	AMBER PILOT LIGHT
24	1	PRECISION DIGITAL	PD-542-6RB-00	DISPLAY
25	2	ENM	1672T84	ELAPSED TIME METER
26	2	A-B	800H-HR2A	2 POSITION SWITCH
27	1	SSAC	FS126RC	FLASHER
28	1	SIEMENS	LOGO	PLC
29	1	STOCK		GFI
30	1	IRL		EXTERNAL ALARM LIGHT
31	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAYS
32	1	ABB	CAL-5	AUXILIARY CONTACT
33				
34				

DATE 08/14/07	Drawing Title		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	BILL OF MATERIALS		R2	PLC MONITORING		07/18/07	HNB
			R3	TDS, OTHER CHANGES		08/14/07	HNB
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED		
				BY COREYC	BY	DATE	
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <div style="text-align: center; font-weight: bold; font-size: 1.5em;">COX</div> <div style="text-align: center; font-size: 0.8em;">Research and Technology, Inc.</div> </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341r3 SHEET NUMBER 8
	DUPLEX PUMP CONTROL PANEL						



	Drawing Title 	
--	---	--