
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

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		

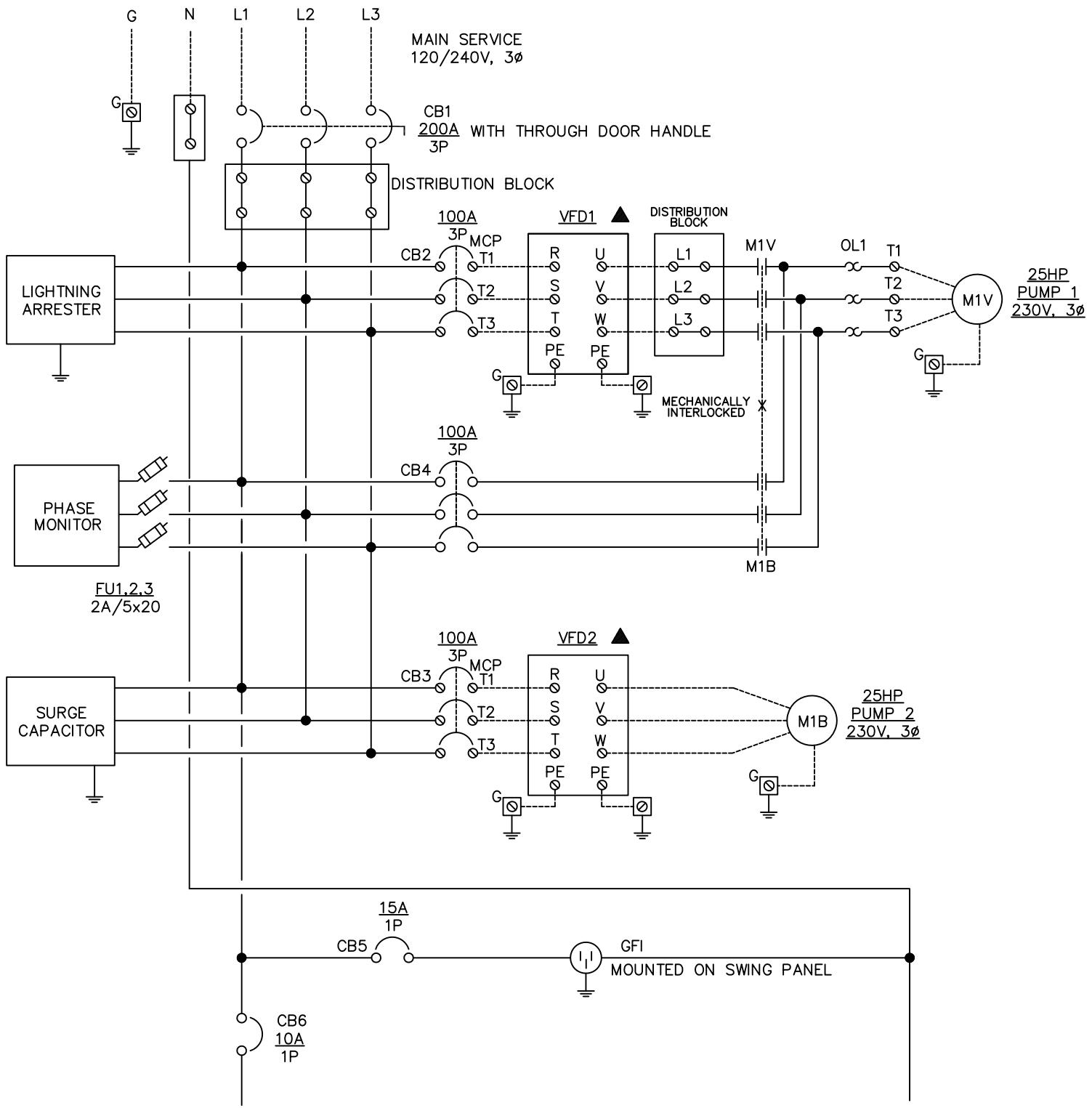
OPTIONS:

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		

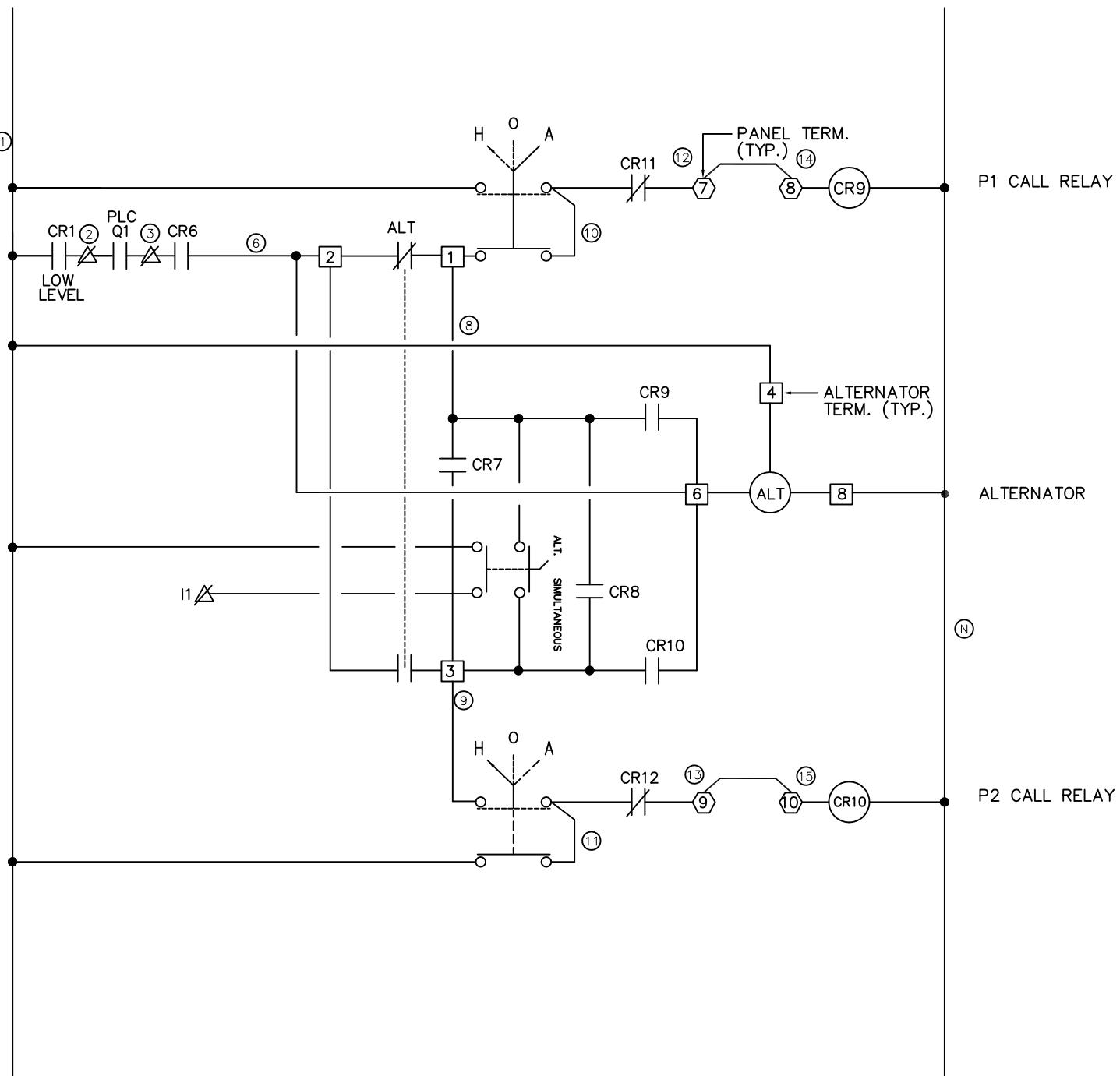
SOLD TO: Delta Process - New Orleans, LA
TAG : ARROWWOOD

SHIP TO: Delta Process - Ruston, LA

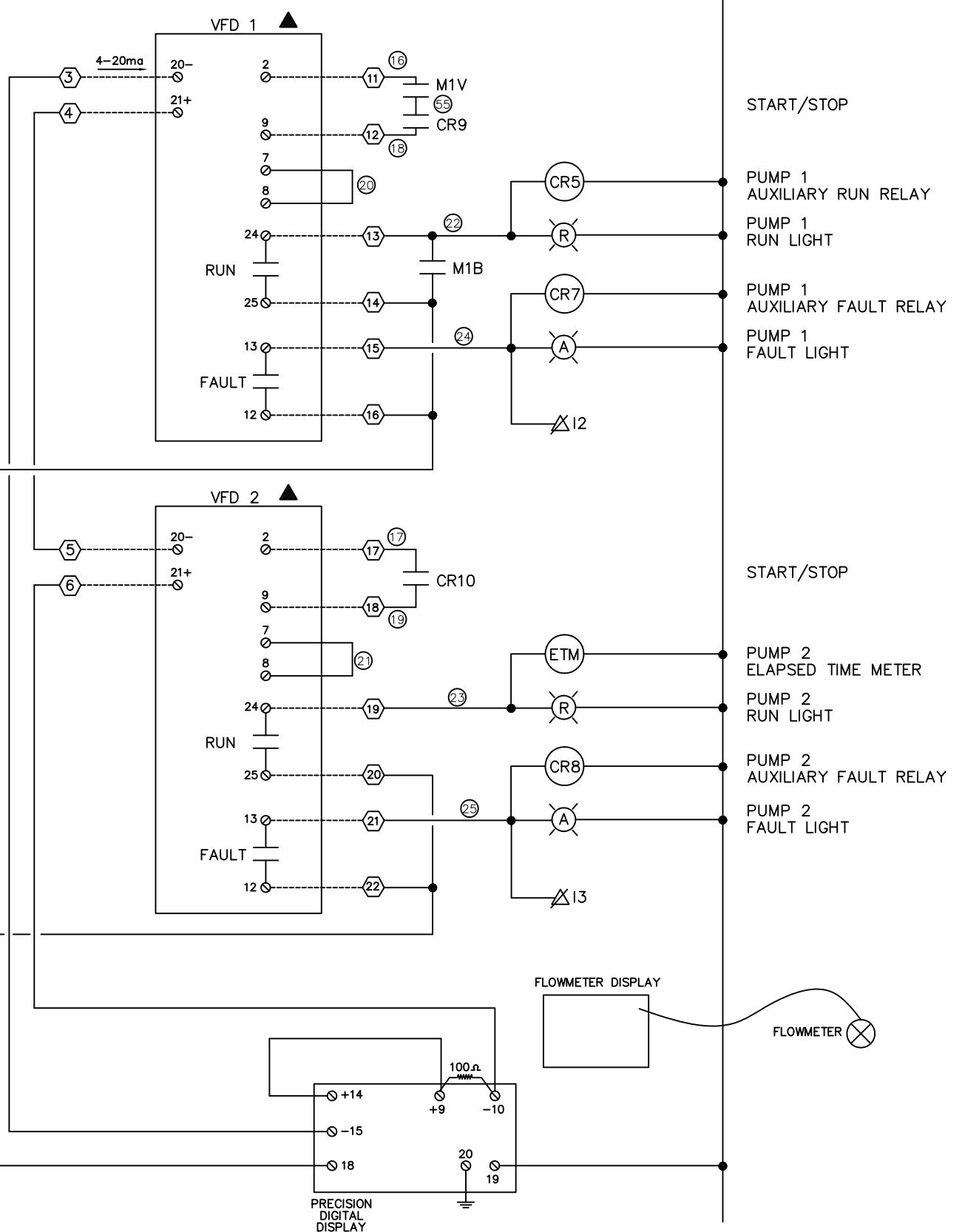
Drawing Title	PANEL DESCRIPTION	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
		R2	PLC MONITORING			
DATE 07/18/07	REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE BY
	S/N	Sales Engineer	Application Engineer	DRAWN	BY	APPROVED
		C.C.	R.C.	BY COREYC	BY	DATE
	Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> 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-2341r2	
					SHEET NUMBER 1	



	Drawing Title	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	POWER DIAGRAM	R2	PLC MONITORING		07/18/07	HNB
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 07/18/07	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY COREYC	BY	DATE
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER	CP-2341r2
					SHEET NUMBER	2

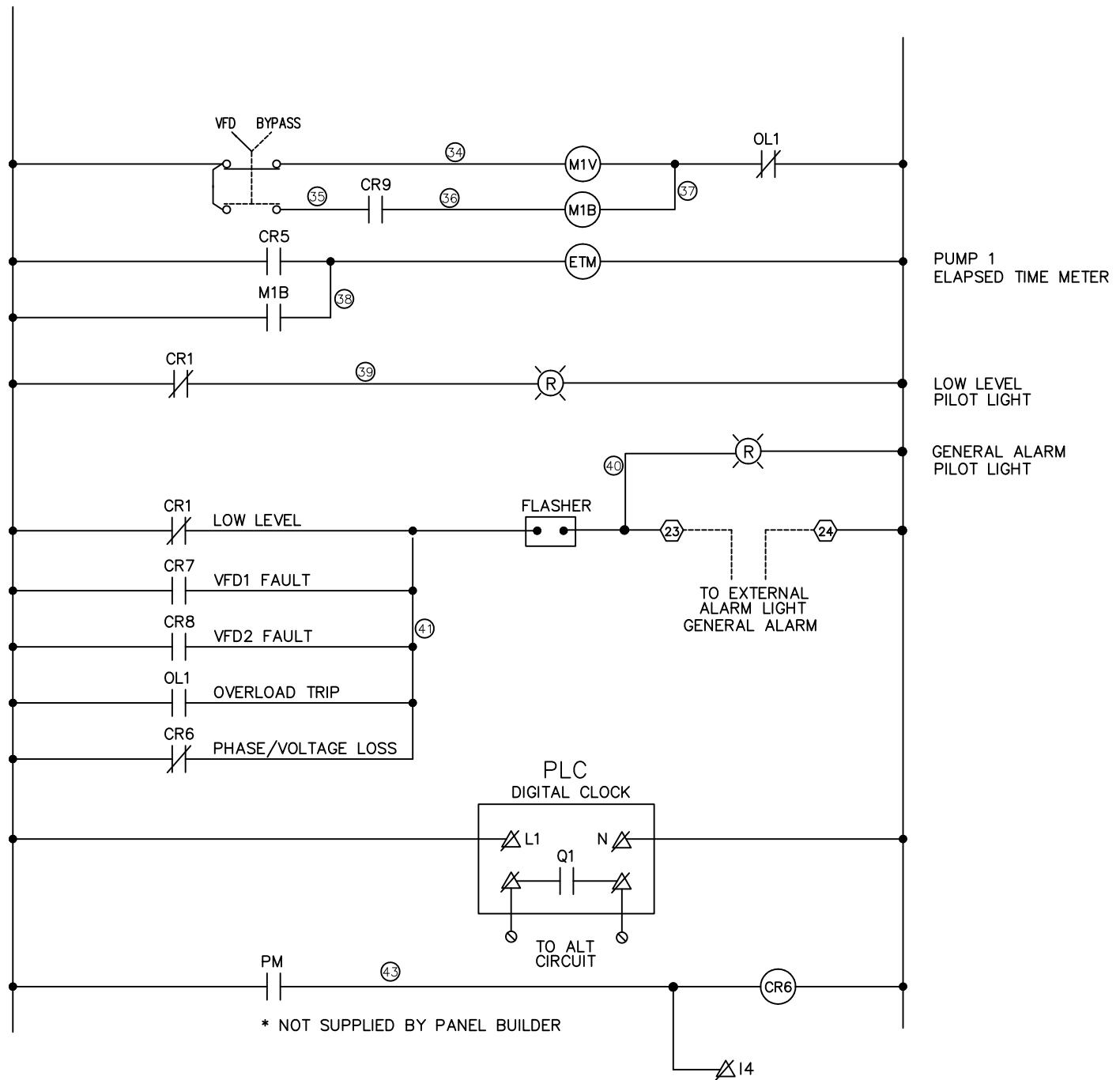


	Drawing Title	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	CONTROL DIAGRAM	R2	PLC MONITORING		07/18/07	HNB
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DATE 07/18/07	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY COREYC	BY	DATE
	Project Title	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER	
					CP-2341r2	
					SHEET NUMBER	
					3	

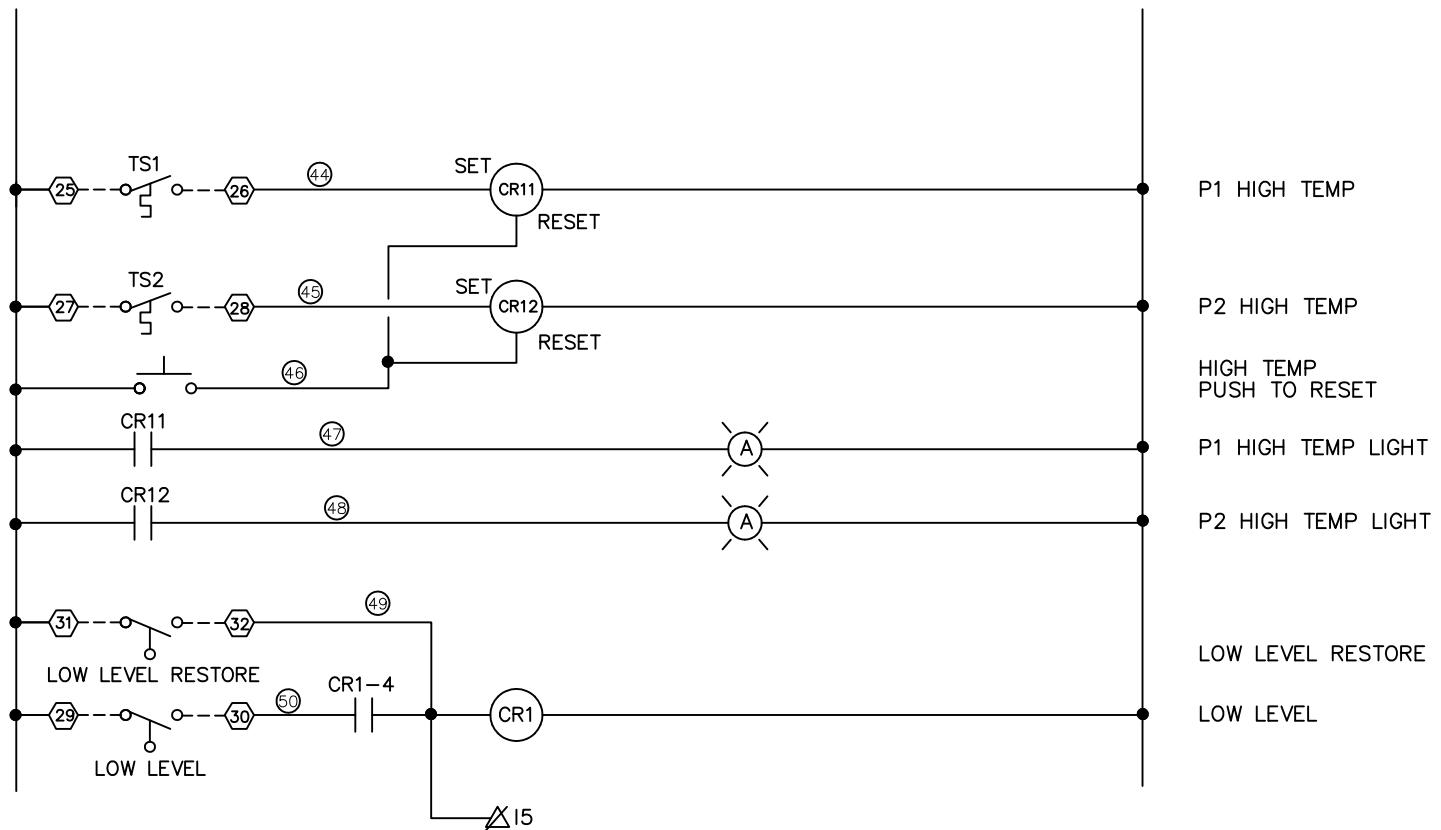


▲ LOCATED EXTERNALLY

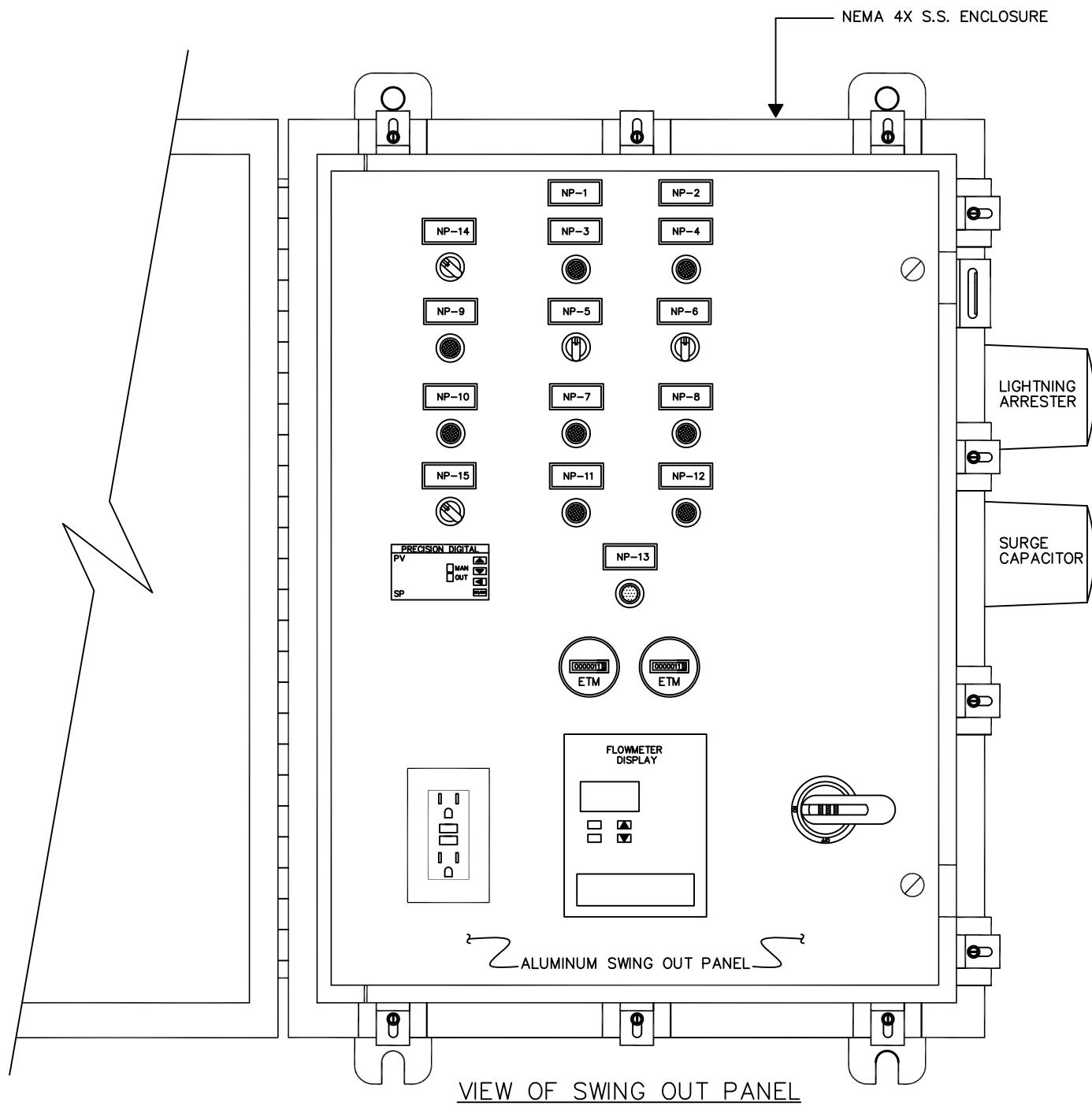
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						SHEET NUMBER 4



	Drawing Title CONTROL DIAGRAM	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
		R2	PLC MONITORING		07/18/07	HNB
DATE 07/18/07	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY COREYC	DATE APPROVED BY 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)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341r2 SHEET NUMBER 5



	Drawing Title CONTROL DIAGRAM	R1 ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
		R2 PLC MONITORING		07/18/07	HNB
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY COREYC	ECN APPROVED BY DATE
DATE 07/18/07	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-2341r2 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

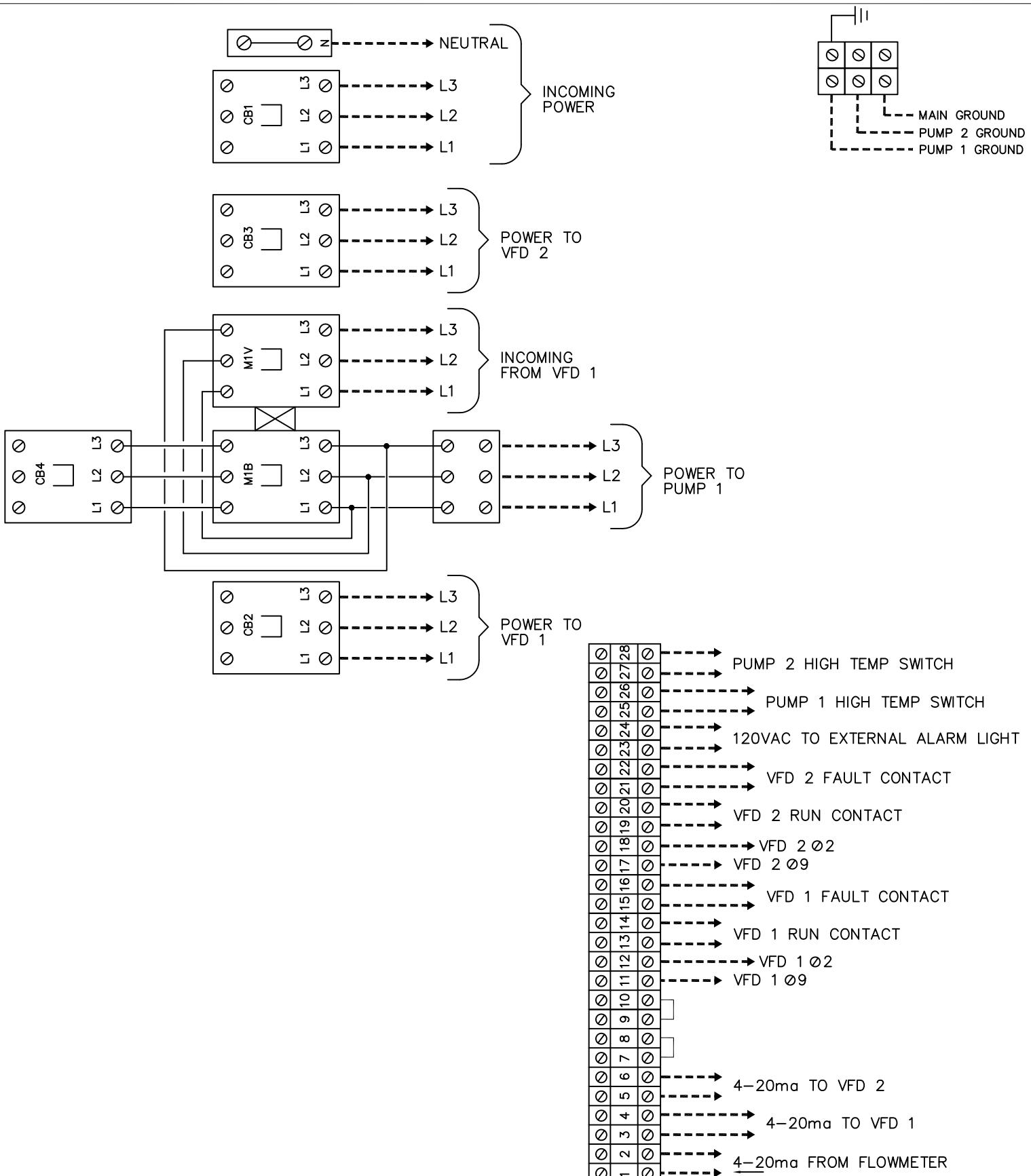
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

DATE 07/18/07	Drawing Title ENCLOSURE			R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB	
				R2	PLC MONITORING				
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
S/N	Sales Engineer	Application Engineer			DRAWN			APPROVED	
	C.C.	R.C.		BY COREYC	BY			DATE	
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						Ph. (225)756-3271 Fax (225)755-1030	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	IDECK	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				

	Drawing Title BILL OF MATERIALS		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
			R2	PLC MONITORING		07/18/07	HNB
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						SHEET NUMBER 8	



	Drawing Title EXTERNAL CONNECTIONS DATE 07/18/07	R1	ADD SIMPLEX/DUPLEX SWITCH			05/08/07	HNB				
		R2	PLC MONITORING			07/18/07	HNB				
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S/N	Sales Engineer C.C.		Application Engineer R.C.		DRAWN	APPROVED					
	BY		COREYC		BY	DATE					
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						SHEET NUMBER		9			