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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
MARWOOD LIFT STATION

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

CP-1495

VOLTAGE	240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	4	
FLA	12.4	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER	JSV3D60-E4	

CONTROL VOLTAGE	24V	(120V, Other)
ENCLOSURE	NEMA 4	(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		
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

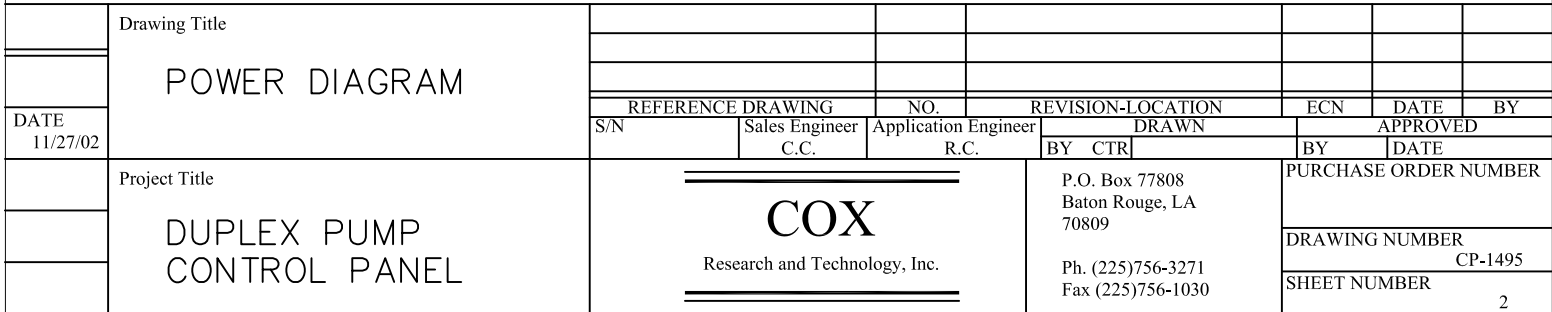
SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN	X	
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR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

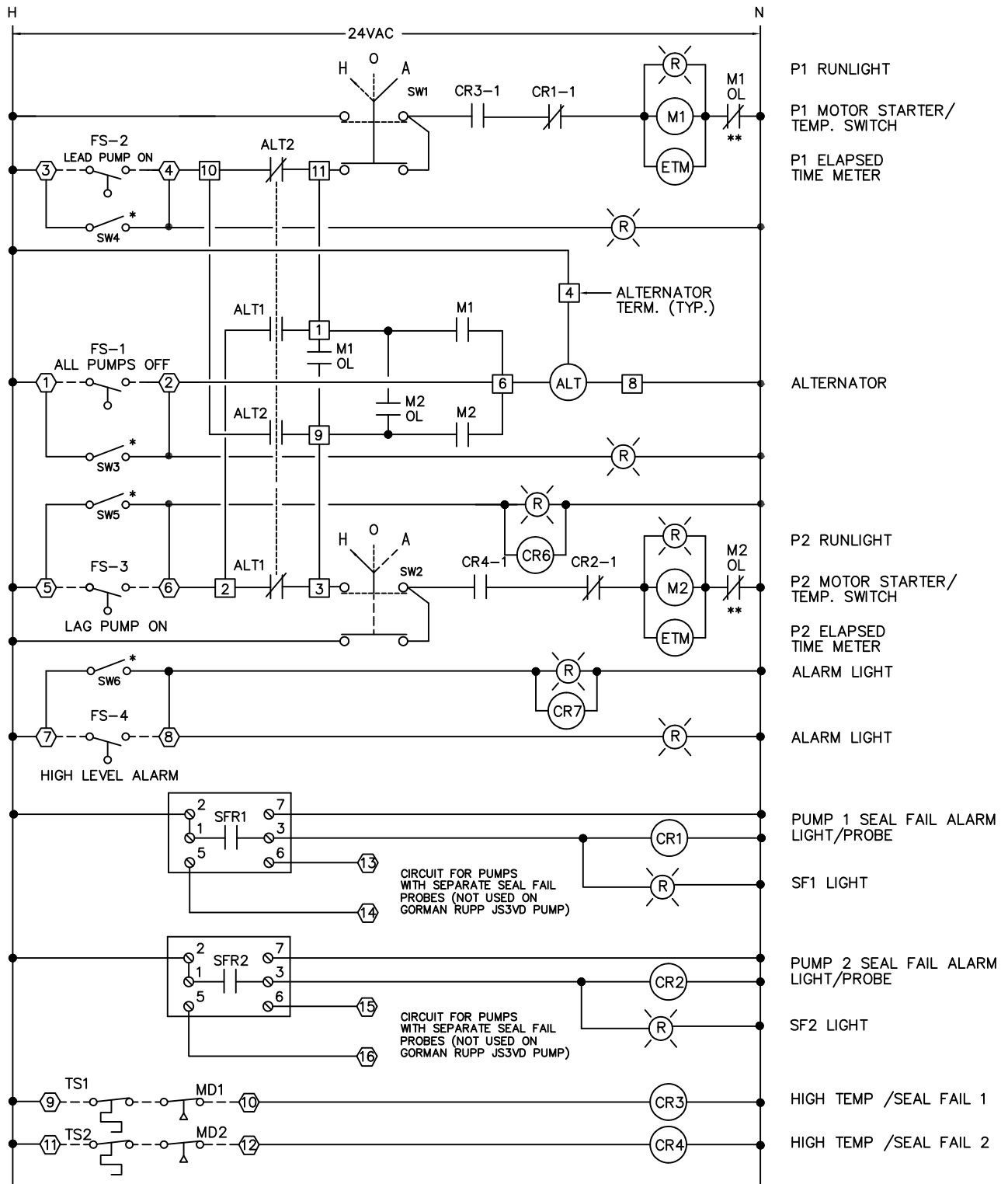
SOLD TO: Delta Process - Ruston, LA  
TAG : Marwood Lift Station

SHIP TO: Pump & Power Equipment

THIS PANEL IS EQUIPED WITH OPTIONAL SEAL FAIL RELAYS AND LIGHTS. IF FUTURE PUMPS HAVE MOISTURE PROBES, THESE CAN BE UTILIZED EASILY.

	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
11/27/02		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR	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)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1495 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						



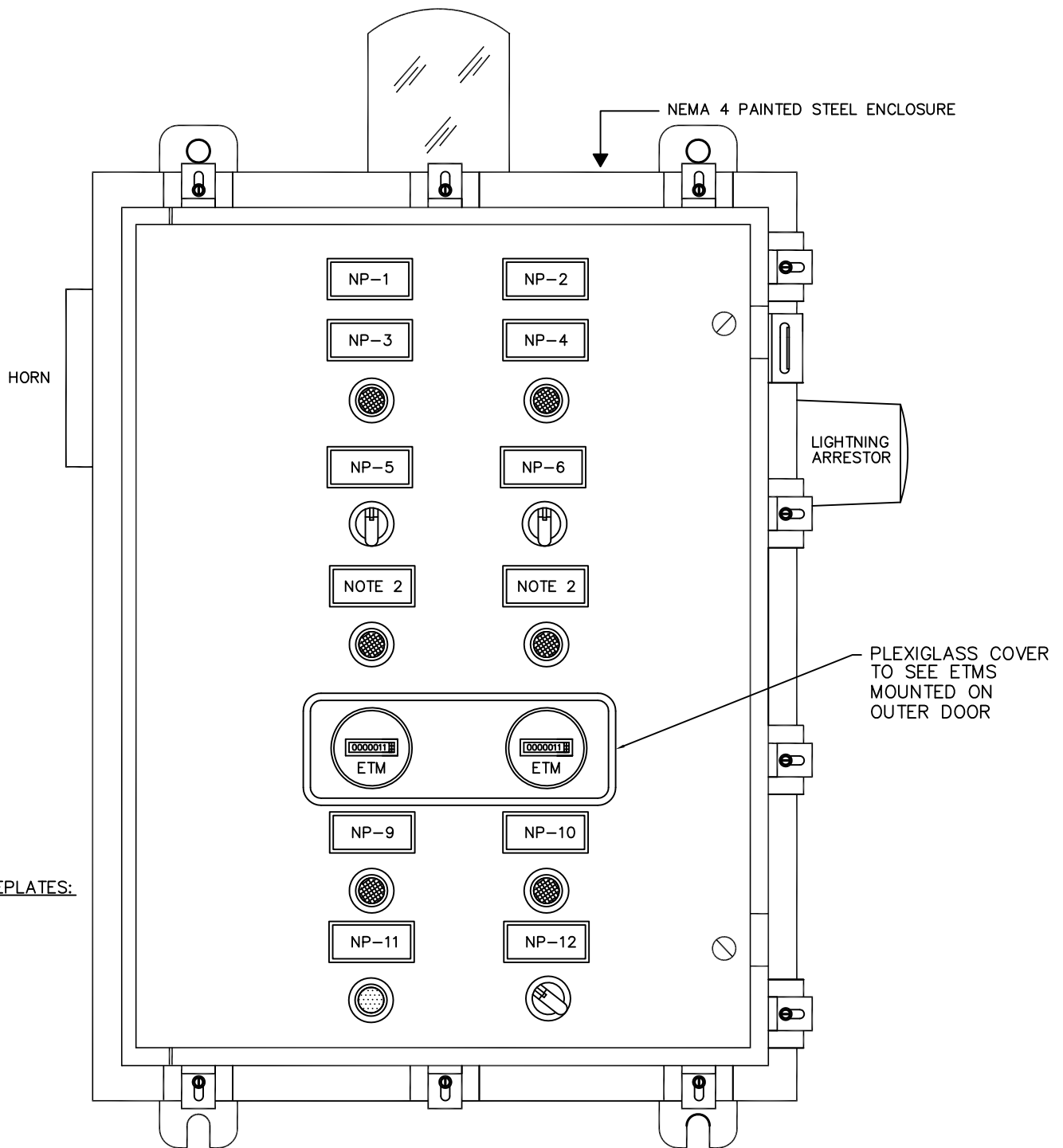


\* FLOAT TEST SWITCHES LOCATED ON BACKPLATE OF CONTROL PANEL

\*\* OVERLOAD RESET BUTTON LOCATED ON OVERLOAD

Drawing Title	CONTROL DIAGRAM					
DATE	11/27/02	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE
		S/N	Sales Engineer	Application Engineer	BY	APPROVED
			C.C.	R.C.	CTR	DATE
Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1495	
					SHEET NUMBER 3	





VIEW OF SWING OUT PANEL

SPARE NAMEPLATES:

SEAL FAIL  
SEAL FAIL  
HIGH TEMP  
HIGH TEMP

NOTE:

- SEWER GASSES WILL DESTROY COMPONENTS IN PANEL. PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE PANEL TO PREVENT ENTRY OF GASSES.
- INSTALL "SEAL FAIL" NAMEPLATES, IF PUMPS WITH SEPARATE SEAL FAIL PROBES ARE USED.

NAMEPLATE SCHEDULE

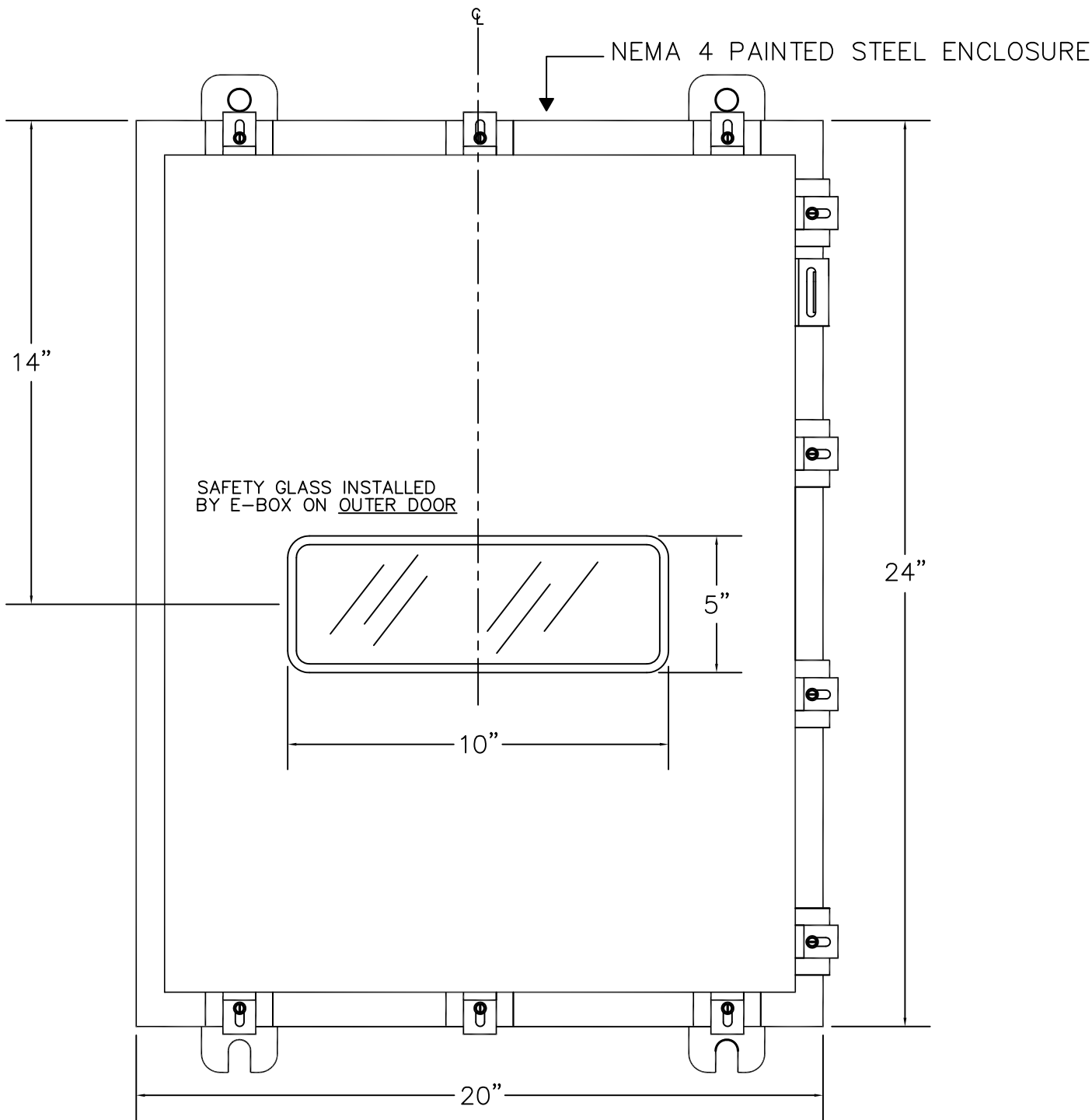
NP-1 PUMP 1  
NP-2 PUMP 2  
NP-3 RUN  
NP-4 RUN  
NP-5 HOA  
NP-6 HOA  
NP-7 SEE NOTE 2  
NP-8 SEE NOTE 2  
NP-9 HIGH TEMP/SEAL FAIL  
NP-10 HIGH TEMP/SEAL FAIL  
NP-11 HORN SILENCE  
NP-12 HORN DEACT/ACT

	Drawing Title  <	
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# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010N4W/WINDOW	ENCLOSURE W/WINDOW KIT
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-81	MOTOR STARTER
4	2	ABB	TA25DU14	O.L. RELAY (10-14A)
5	2	SQUARE D	QOU325	CB1, CB2
6	1	DIVERSIFIED	ARB24ADA	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-24	ALARM LIGHT
10	2	GRASSLIN	UWZ48E	ELAPSED TIME METER
11	2	TIMEMARK	409-24AC	SEAL FAIL RELAY
12	1	SENSAPHONE	1104	AUTO DIALER
13	1	STEVECO	90-T40F3	TRANSFORMER
14	4	EZ-SWITCH	STOCK	TOGGLE SWITCH
15	4	SYLVANIA	30099	PILOT LIGHT
16	1	DONGAN	50-0150-52	TRANSFORMER
17	2	ACI	JR22FY	YELLOW PILOT LIGHT
18	1	ACI	JR22AN11B	P.B.
19	1	CH	CHSA03	LIGHTNING ARRESTOR
20	1	EDWARDS	870PG5	HORN
21				
22				
23				
24				
25				

	Drawing Title						
	BILL OF MATERIALS						
DATE 11/27/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <b>COX</b>  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-1495 SHEET NUMBER
	DUPLEX PUMP CONTROL PANEL						6



VIEW OF FRONT DOOR

NOT TO SCALE

242010N4W/WINDOW  
A2420P  
A2420SP

ENCLOSURE  
BACKPLATE  
DEAD FRONT

	Drawing Title						
	ENCLOSURE						
DATE 11/27/02		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	DRAWN BY CTR			APPROVED BY DATE		
	DUPLEX PUMP CONTROL PANEL	PURCHASE ORDER NUMBER			DRAWING NUMBER CP-1495		
		SHEET NUMBER					

**COX**

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