
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
GAINSVILLE

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

CP-1588


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

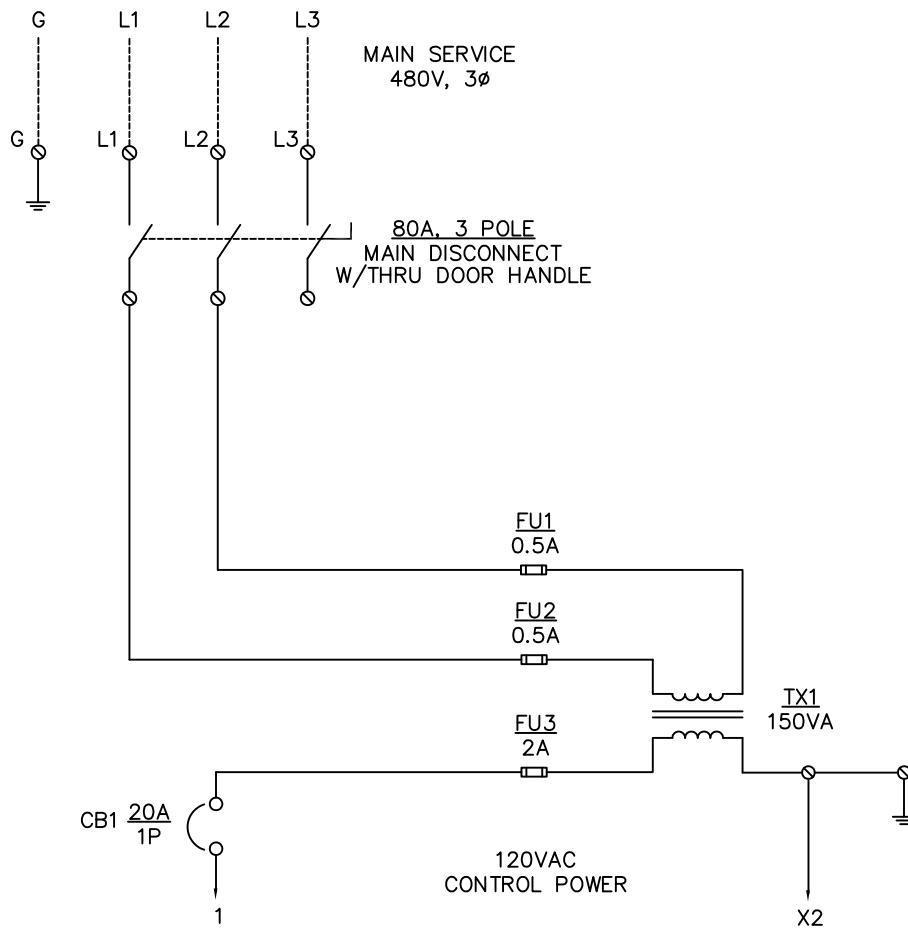
OPTIONS:

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> </u>	(Self-Primer, Submersible)
ALARM HORN	<u> </u>	
ALARM LIGHT	<u> </u>	
LIGHT PANEL MTD	<u> </u>	
LIGHT REMOTE MTD	<u> </u>	
LIGHT FLASHER	<u> </u>	
LIGHTNING ARRESTER	<u> </u>	
ELAPSED TIME METER	<u> </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> </u>	
ECONOMY VERSION	<u> </u>	

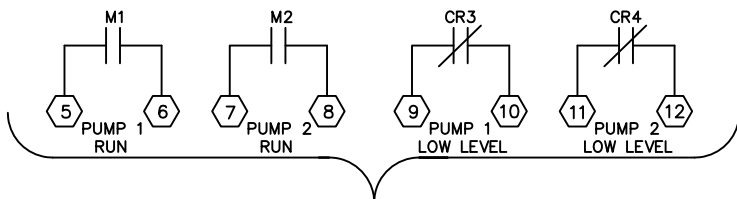
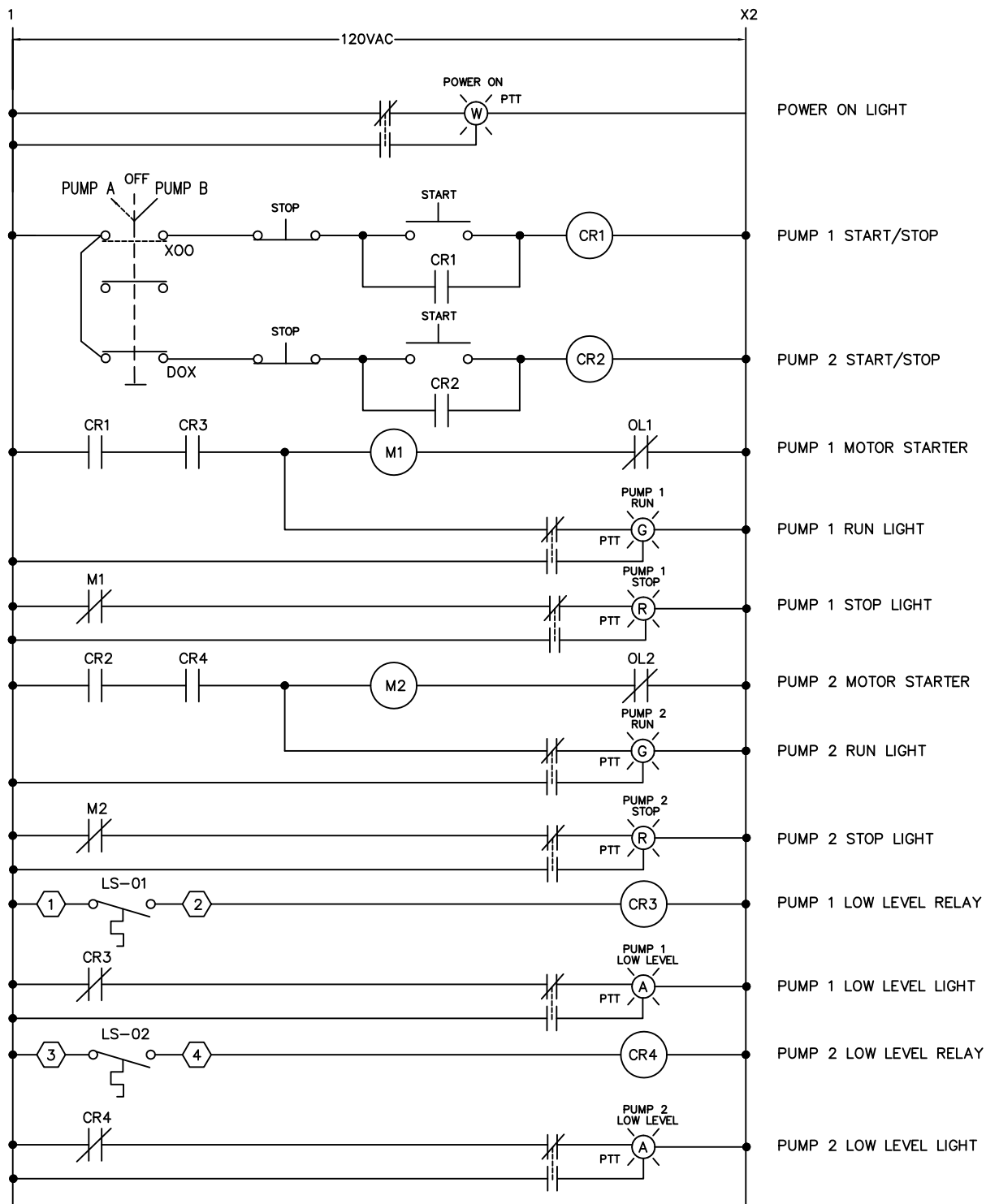
SOLD TO: CF ENGINEERED EQUIPMENT - DALLAS, TX
TAG : GAINSVILLE

SHIP TO: CF ENGINEERED EQUIPMENT - DALLAS, TX

	Drawing Title							
	PANEL DESCRIPTION							
DATE 6/19/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	
				BY C. RACHAL	APPROVED			
	Project Title	<div style="text-align: center;">  Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	DUPLIX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1588	
							SHEET NUMBER	
							1	

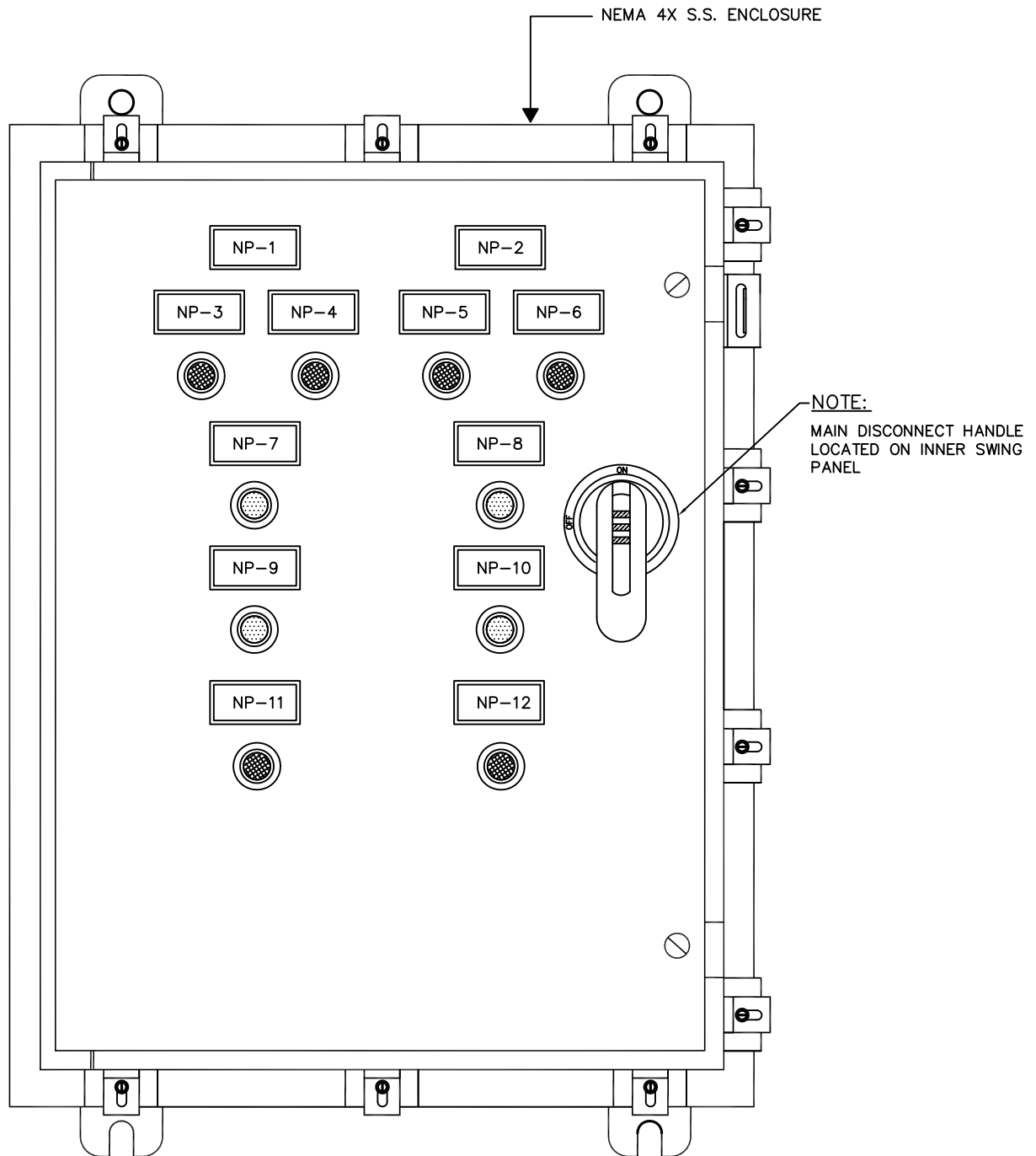


	Drawing Title						
	POWER DIAGRAM						
DATE 6/19/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	DRAWN BY C. RACHAL			APPROVED BY		
	DUPLEX PUMP CONTROL PANEL	PURCHASE ORDER NUMBER			DRAWING NUMBER CP-1588		
		SHEET NUMBER			2		



- * ALL CONTROL WIRING TO BE MTW (SEE ATTACHED CUT SHEET)
- * WIRE CHASES TO BE USED
- * EACH WIRE LABELED WITH HEAT SHRINK LABELS

Drawing Title	CONTROL DIAGRAM					
DATE	6/19/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE
Project Title	DUPLEX PUMP CONTROL PANEL	S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED
		COX			PURCHASE ORDER NUMBER	
		Research and Technology, Inc.			DRAWING NUMBER CP-1588	
		P.O. Box 77808 Baton Rouge, LA 70809			SHEET NUMBER	
		Ph. (225)756-3271 Fax (225)756-1030			3	



VIEW OF SWING OUT PANEL

- * PLASTIC DRAWING POCKET
TO BE INSTALLED ON DOOR
- * U.L. LABEL INSTALLED ON DOOR

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	OFF
NP-4	ON
NP-5	OFF
NP-6	ON
NP-7	START
NP-8	START
NP-9	STOP
NP-10	STOP
NP-11	LOW LEVEL
NP-12	LOW LEVEL

	Drawing Title								
	ENCLOSURE								
DATE 6/19/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY		
	Project Title	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL						DRAWING NUMBER CP-1588		
							SHEET NUMBER 4		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S201610N4X	ENCLOSURE STAINLESS 4X
1a	1	EBE	A2016P	BACKPLATE
1b	1	EBE	A2016SP	INNER SWING PANEL
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	1	TIMEMARK	261DT120	ALTERNATING RELAY
4	2	ACI	JR22BL11R	RED PILOT LIGHT
5	4	ACI	JR22AN11B	PUSH BUTTONS
6	1	SQUARE D	9070TF150D1	TRANSFORMER
7	1	AC/DC	BL5-R-120	ALARM LIGHT
8	2	ACI	JR22BL11Y	AMBER PILOT LIGHT PTT
9	1	ACI	JR22BL11W	WHITE PILOT LIGHT PTT
10	2	ACI	JR22BL11G	GREEN PILOT LIGHT PTT
11	4	OMRON	MK3PN5SAC120	CR1-4
12	1	SQUARE D	QOU120	CB3
13	1	ABB	OH65L5	THRU DOOR HANDLE
14	1	ABB	OX5X265	SHAFT
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

	Drawing Title							
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>							
DATE 6/19/03		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;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0; font-size: small;">Research and Technology, Inc.</p> </div>		<p style="margin: 0; font-size: small;">P.O. Box 77808 Baton Rouge, LA 70809</p> <p style="margin: 0; font-size: small;">Ph. (225)756-3271 Fax (225)756-1030</p>		<p style="margin: 0; font-size: small;">PURCHASE ORDER NUMBER</p> <hr/> <p style="margin: 0; font-size: small;">DRAWING NUMBER CP-1588</p> <hr/> <p style="margin: 0; font-size: small;">SHEET NUMBER</p>		5
	Project Title	<h2 style="margin: 0;">DUPLEX PUMP CONTROL PANEL</h2>						