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COX

Research and Technology, Inc.

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BLOWER/PUMP  
CONTROL PANEL  
VOLUTE INC.  
SIXTH WARD MIDDLE SCHOOL

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

CP-1852

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2, 1</u>	
HP	<u>3, 1/2</u>	
FLA	<u>4.8, 9.4</u>	
TYPE OF PUMP	<u>Blower, Pump</u>	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER	<u>EHV412 (PUMP)</u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Fiberglass</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
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		(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT		
LIGHT PANEL MTD		
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER		
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		

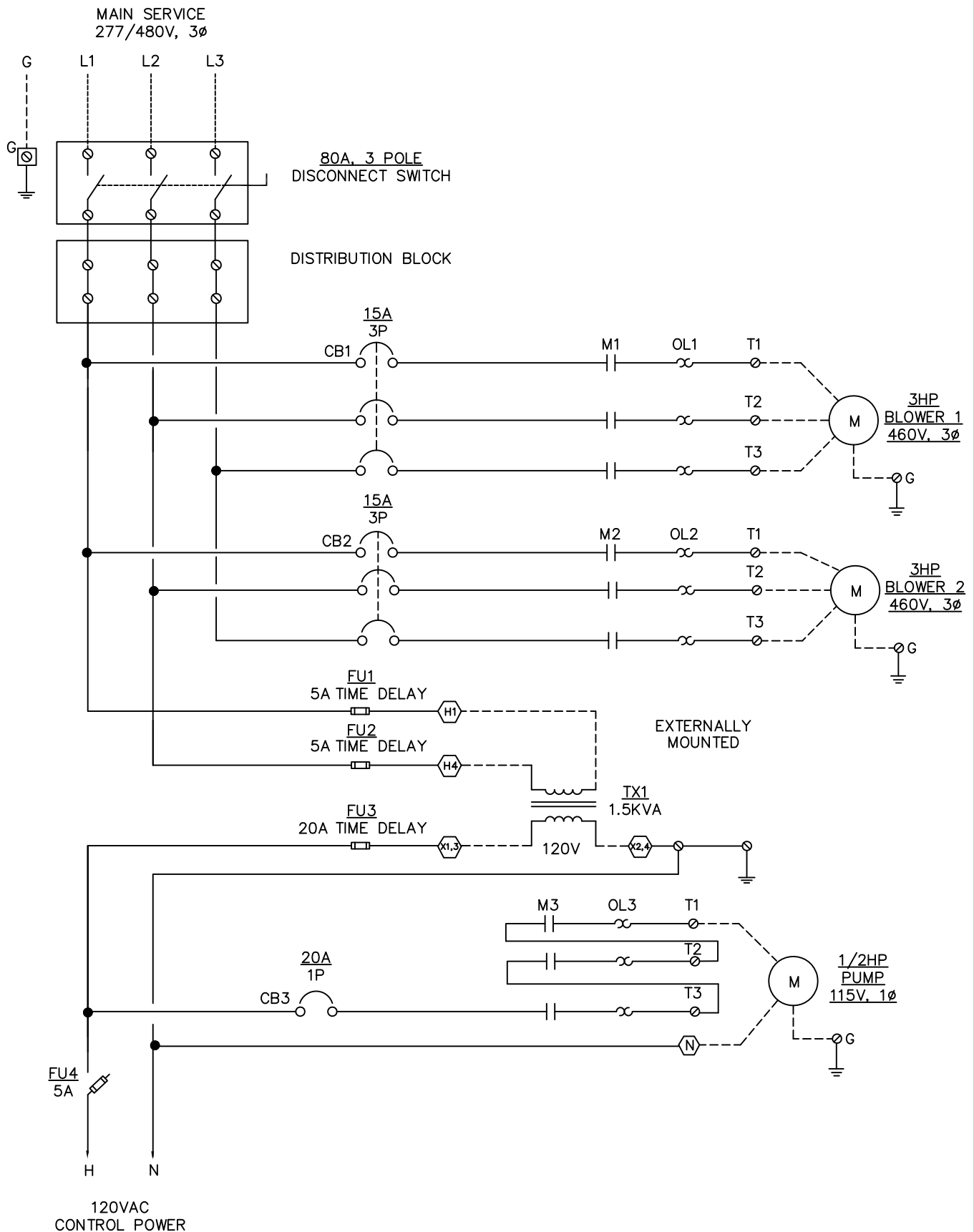
SOLD TO: Delta Process Equipment, Inc.

TAG : VOLUTE INC.

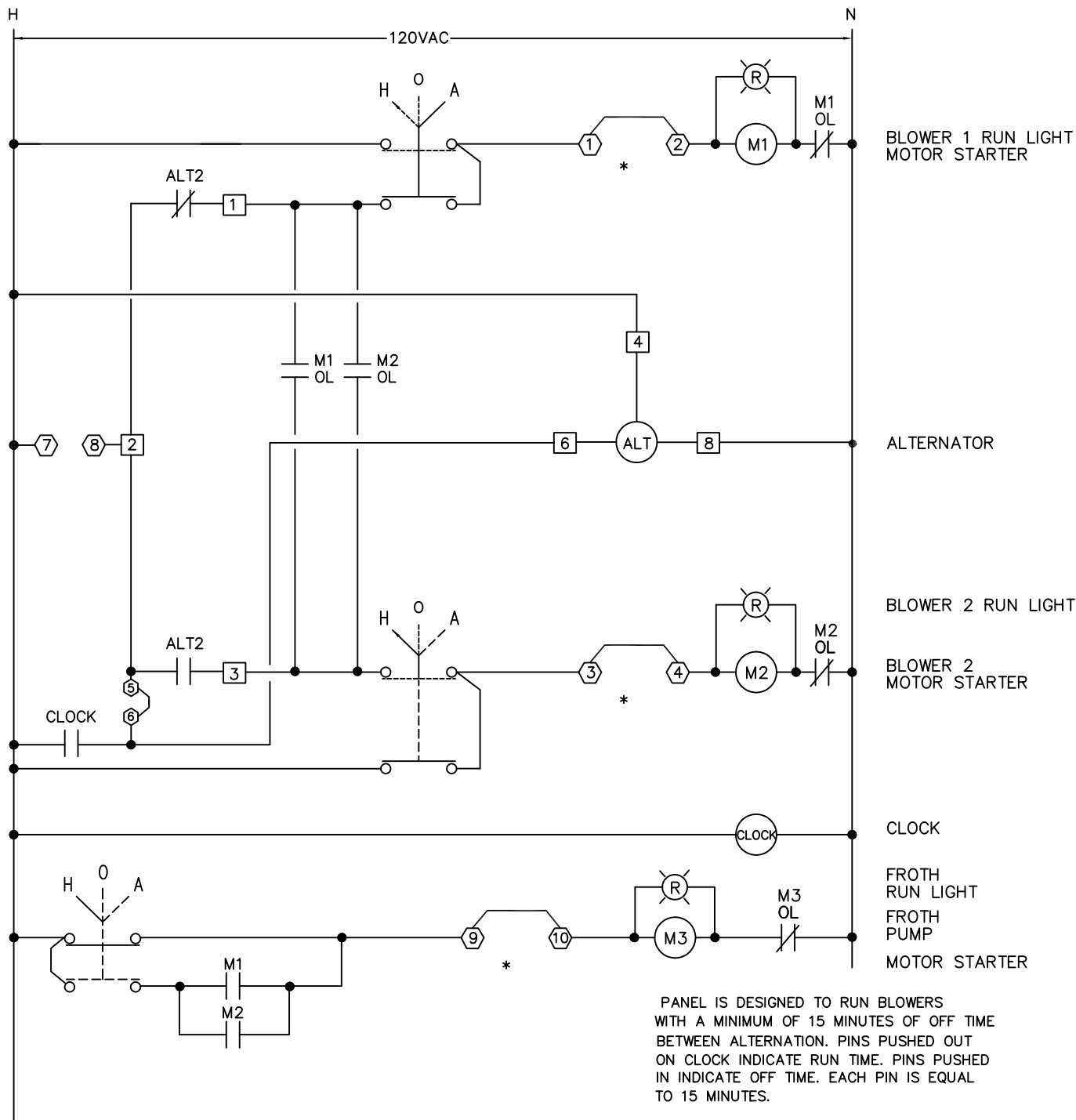
SIXTH WARD MIDDLE SCHOOL

SHIP TO: Delta Process Equipment, Inc. - Ruston, LA

	Drawing Title							
	PANEL DESCRIPTION							
DATE 7/16/04			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title		<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>			PURCHASE ORDER NUMBER		
	DUPLEX BLOWER CONTROL PANEL					DRAWING NUMBER CP-1852		
						SHEET NUMBER 1		

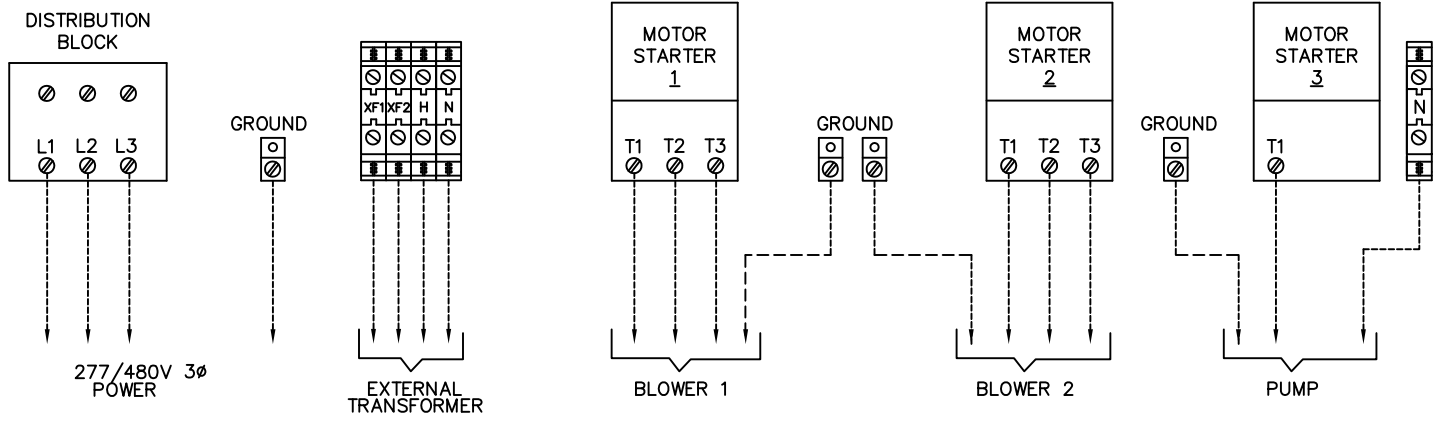


	Drawing Title								
	POWER DIAGRAM								
DATE 7/16/04		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL		BY	DATE	
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	DUPLEX BLOWER CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1852		
							SHEET NUMBER 2		



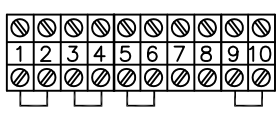
\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title							
CONTROL DIAGRAM							
DATE 7/16/04	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DATE
Project Title		DRAWN		APPROVED		BY	
DUPLIX BLOWER CONTROL PANEL		BY C. RACHAL				DATE	
		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
		Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1852			
				SHEET NUMBER		3	

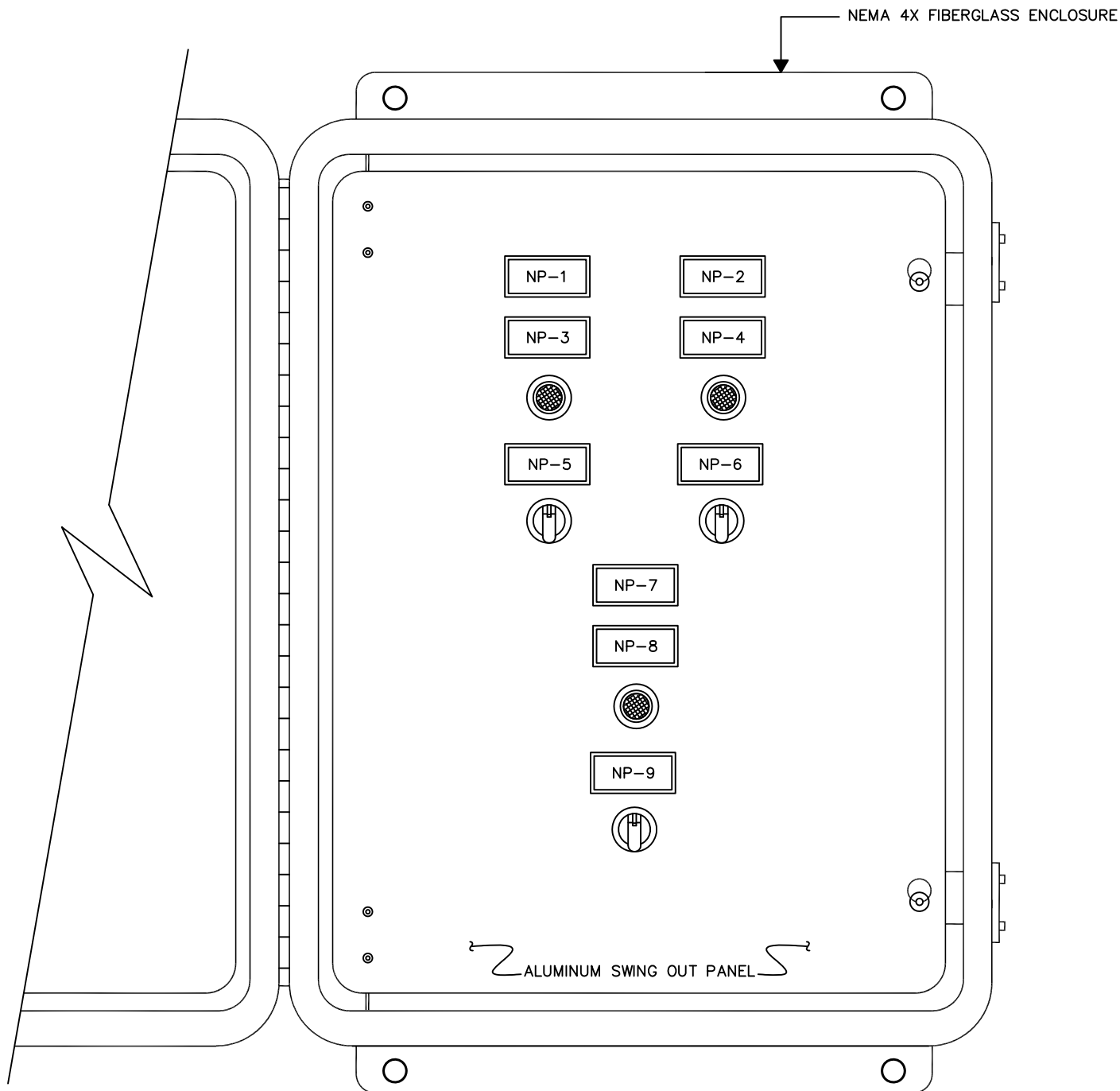


REMOVE JUMPERS & INSTALL  
LOCKOUT DEVICES IF REQUIRED

IF NO OFF TIME IS REQUIRED BETWEEN  
ALTERNATION, REMOVE JUMPER FROM  
TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS  
TERMINALS ⑦ AND ⑧. NOW BLOWERS WILL RUN  
CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU  
WISH THE BLOWERS TO ALTERNATE.  
ALL REMAINING PINS SHOULD BE PUSHED OUT.



	Drawing Title							
	EXTERNAL CONNECTIONS							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
7/16/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED		
	Project Title				PURCHASE ORDER NUMBER			
	DUPLEX BLOWER CONTROL PANEL	COX			P.O. Box 77808 Baton Rouge, LA 70809		DRAWING NUMBER CP-1852	
		Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030		SHEET NUMBER 4	



VIEW OF SWING PANEL

NAMEPLATE SCHEDULE

**NOTE:**

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

NP-1 BLOWER 1  
NP-2 BLOWER 2  
NP-3 RUN  
NP-4 RUN  
NP-5 HOA  
NP-6 HOA  
NP-7 FROTH PUMP  
NP-8 RUN  
NP-9 HOA

	Drawing Title    ENCLOSURE							
DATE 7/16/04			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN BY	DATE DATE
	Project Title  DUPLIX BLOWER 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)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1852  SHEET NUMBER 5

# BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HWPLDF	ENCLOSURE
2	1	STAHLIN	BP1816AL	BACKPLATE
3	3	ABB	A16-30-10-84	STARTER 1,2
4	1	ABB	TA25DU11	O.L. 3 (7.5-11A)
5	2	ABB	S1N015TL	CIRCUIT BREAKER 1,2
6	1	MARATHON	1323580	DISTRIBUTION BLOCK
7	3	ACI	JR22P3M20B	H.O.A. SWITCH
8	3	ACI	JR22FR	RED PILOT LIGHTS
9	1	TIMEMARK	261DT120	ALTERNATING RELAY
10	1	DONGAN	85-1040SH	TRANSFORMER
11	1	GRASSLIN	FM/1STUZZ	TIMER
12	1	SQUARE D	QOU120	CB3
9	1	ABB	OT63E3	DISCONNECT SWITCH
10	2	ABB	TA25DU5.0	O.L. 1,2 (3.5-5.0A)
11				
12				

	Drawing Title							
	<b>BILL OF MATERIALS</b>							
DATE 7/16/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
						APPROVED		
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <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-1852 SHEET NUMBER 6	
	<b>DUPLEX BLOWER CONTROL PANEL</b>							