
COX

Research and Technology, Inc.

BLOWER/PUMP
CONTROL PANEL
VOLUTE INC.

THE OPPORTUNITY PLACE

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

VOLTAGE	<u>120/240V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>1/60</u>	
NO. MOTORS	<u>2, 1</u>	
HP	<u>2, 1/2</u>	
FLA	<u>17, 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:

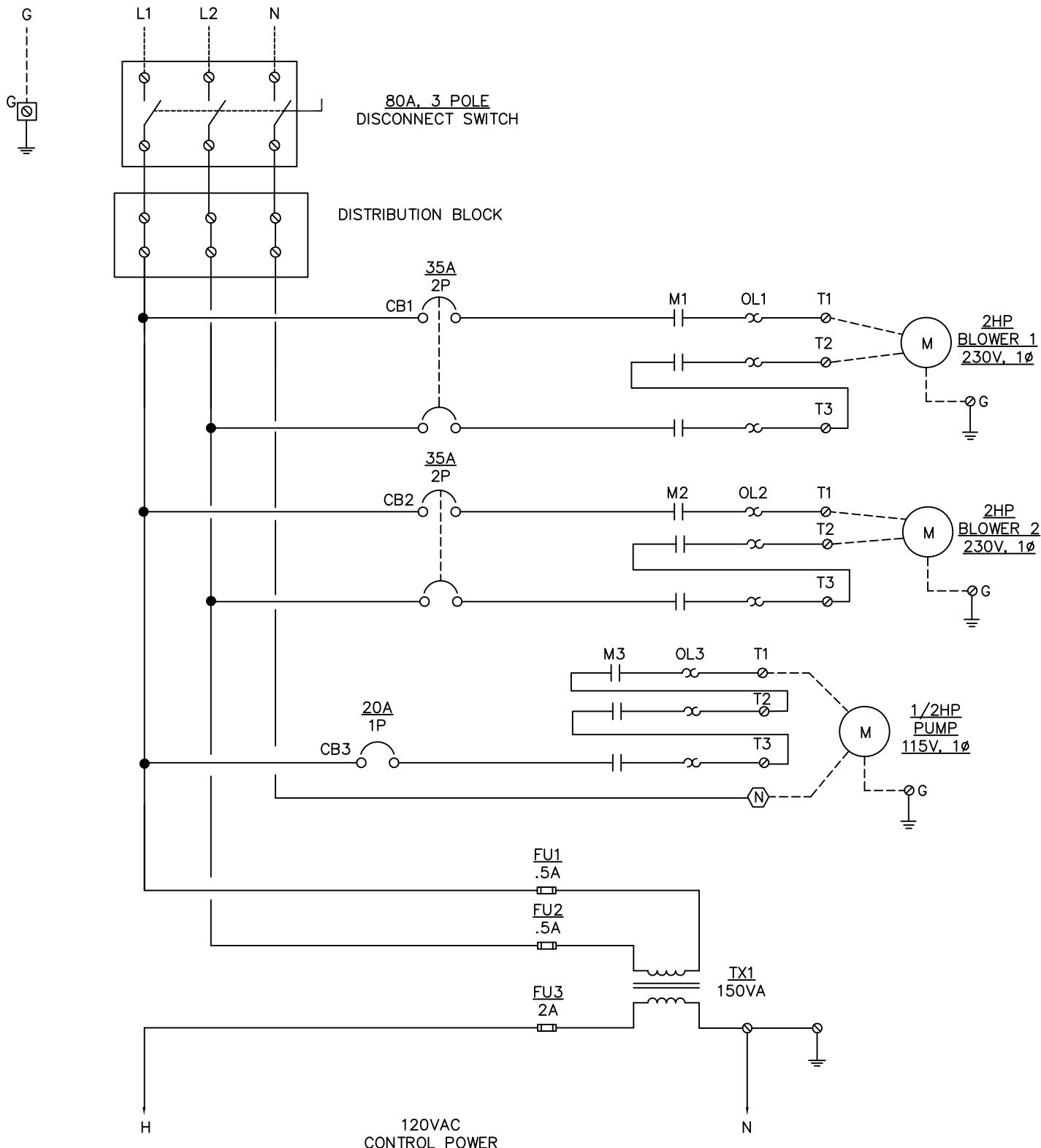
SEAL FAIL LIGHTS	(Submersible Only)
SEAL FAIL RELAYS	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	(Submersible Only)
HT PUMP SHUTDOWN	(Self-Primer, Submersible)
ALARM HORN	
ALARM LIGHT	
LIGHT PANEL MTD	
LIGHT REMOTE MTD	
LIGHT FLASHER	
LIGHTNING ARRESTER	
ELAPSED TIME METER	
PHASE MONITOR	
NEMA RATED STARTERS	
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.
THE OPPORTUNITY PLACE

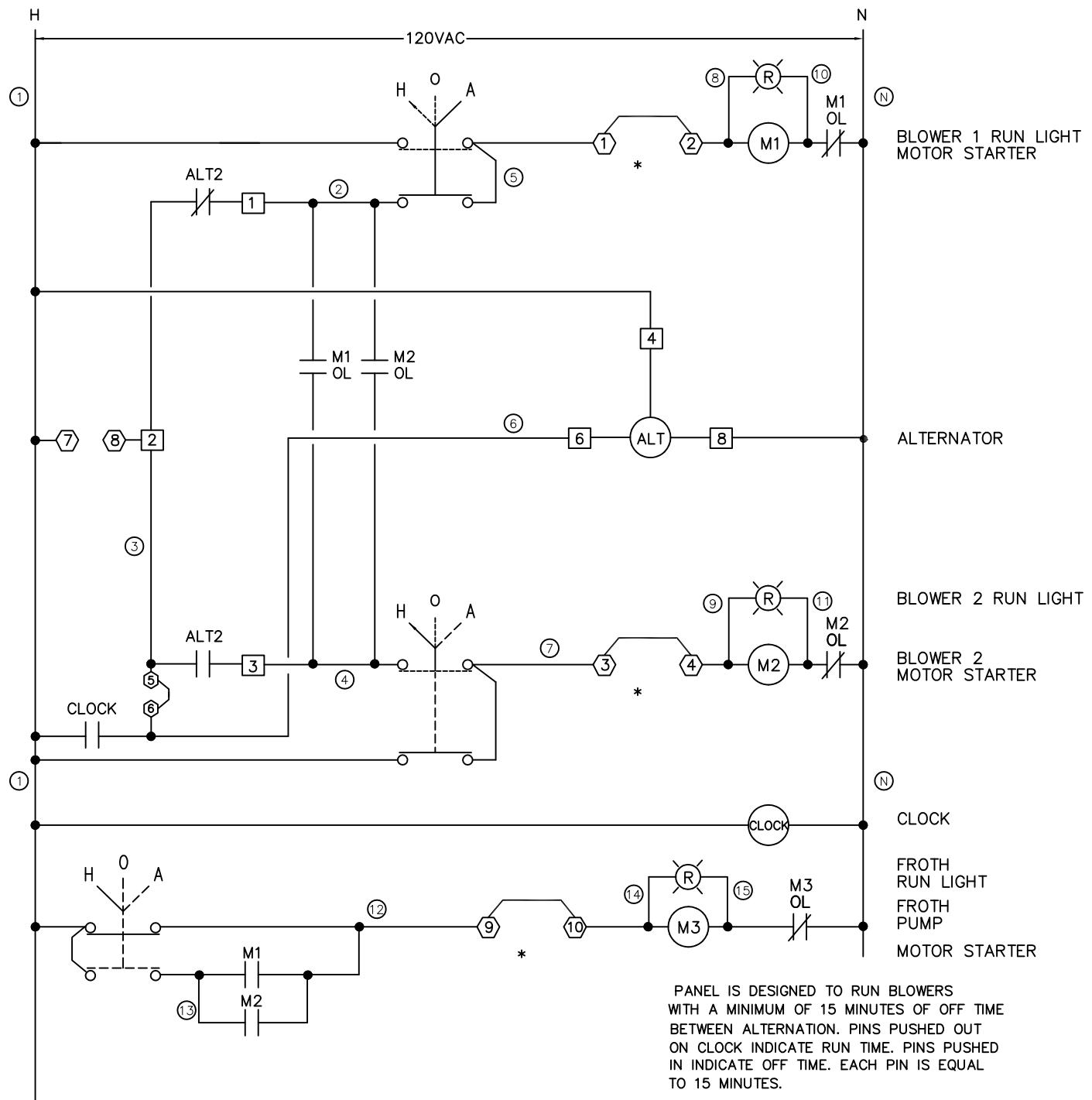
SHIP TO: Delta Process Equipment, Inc. - Ruston, LA

	Drawing Title PANEL DESCRIPTION						
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE BY
DATE 7/16/04							
	Project Title DUPLEX BLOWER CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
						DRAWING NUMBER CP-1854	
					Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 1	

MAIN SERVICE
120/240V, 3Ø



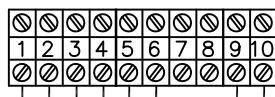
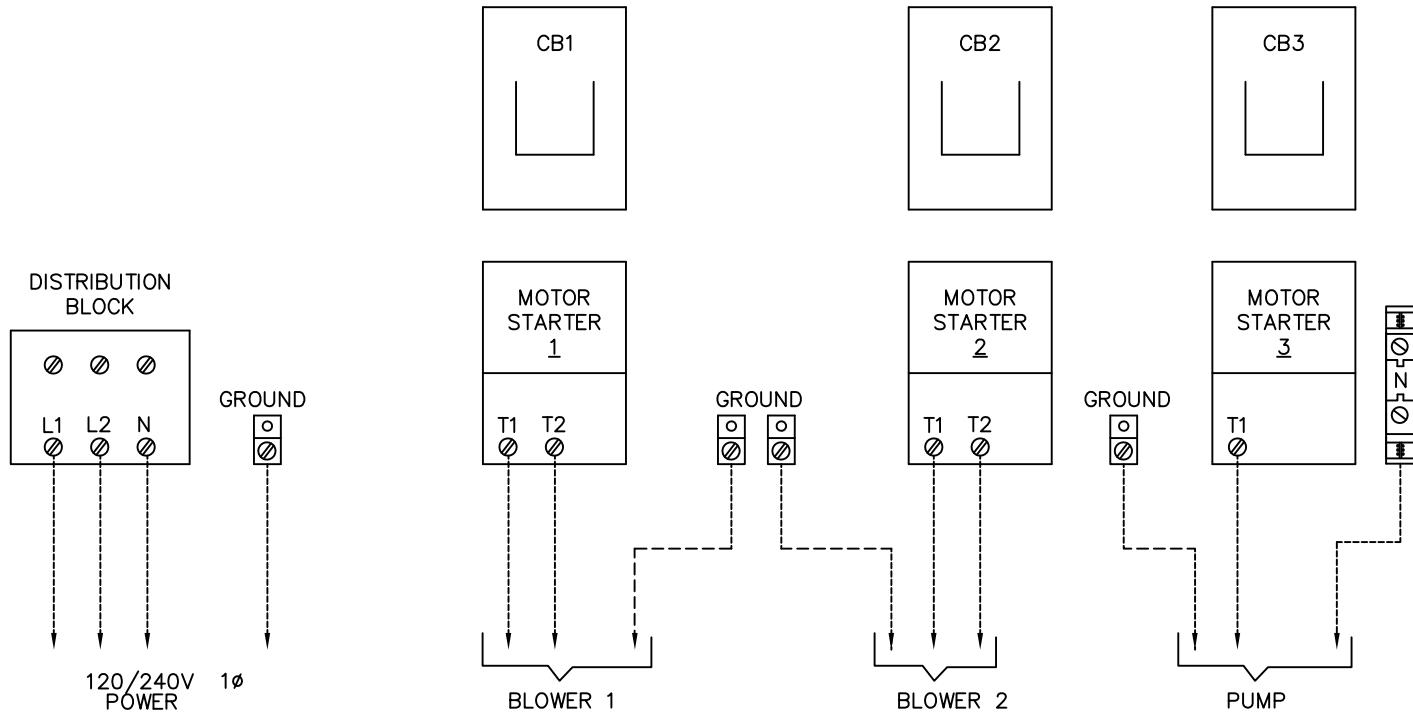
	Drawing Title						
	POWER DIAGRAM						
DATE 7/16/04	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE		
Project Title		<hr/> COX <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
DUPLEX BLOWER CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1854	
				SHEET NUMBER 2			



* REMOVE JUMPERS AND 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.

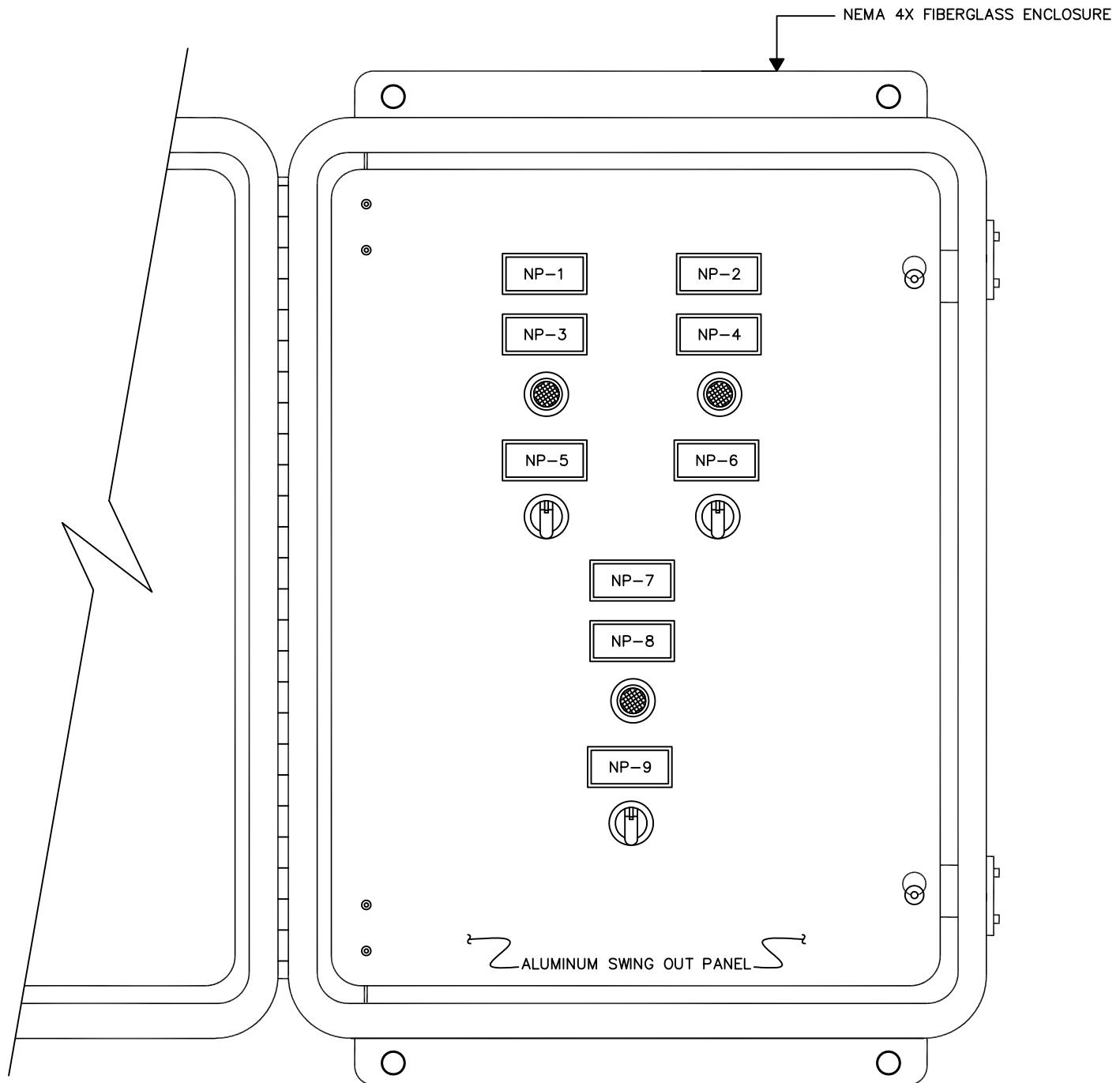
	Drawing Title							
	CONTROL DIAGRAM							
DATE 7/16/04	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY DATE		
	Project Title		<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	DUPLEX BLOWER CONTROL PANEL				DRAWING NUMBER CP-1854			
			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 7/16/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
Project Title DUPLEX BLOWER CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1854	Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 4	



VIEW OF SWING PANEL

NAMEPLATE SCHEDULE

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	

NOTE:

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

	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	DATE APPROVED BY DATE
	Project Title DUPLEX BLOWER CONTROL PANEL	<hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
					Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1854		
						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	SQUARE D	QOU235	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	ABB	T4150PSF-1	TRANSFORMER
11	1	GRASSLIN	FM/1STUZL	TIMER
12	1	SQUARE D	QOU120	CB3
9	2	ABB	TA25DU19	O.L. 1,2 (13-19A)
10	1	ABB	OT63E3	DISCONNECT SWITCH
11				
12				

	Drawing Title							
	BILL OF MATERIALS							
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE
			S/N	Sales Engineer	Application Engineer	DRAWN	BY	APPROVED
DATE 7/16/04				C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title		COX		PURCHASE ORDER NUMBER			
	DUPLEX BLOWER CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER CP-1854			
					SHEET NUMBER 6			