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# COX

Research and Technology, Inc.

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DUPLEX BLOWER  
CONTROL PANEL  
ST. CHARLES BORROMEEO

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

CP-2395

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>1</u>	
FLA	<u>1.8</u>	
TYPE OF PUMP	<u>Blower</u>	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
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		

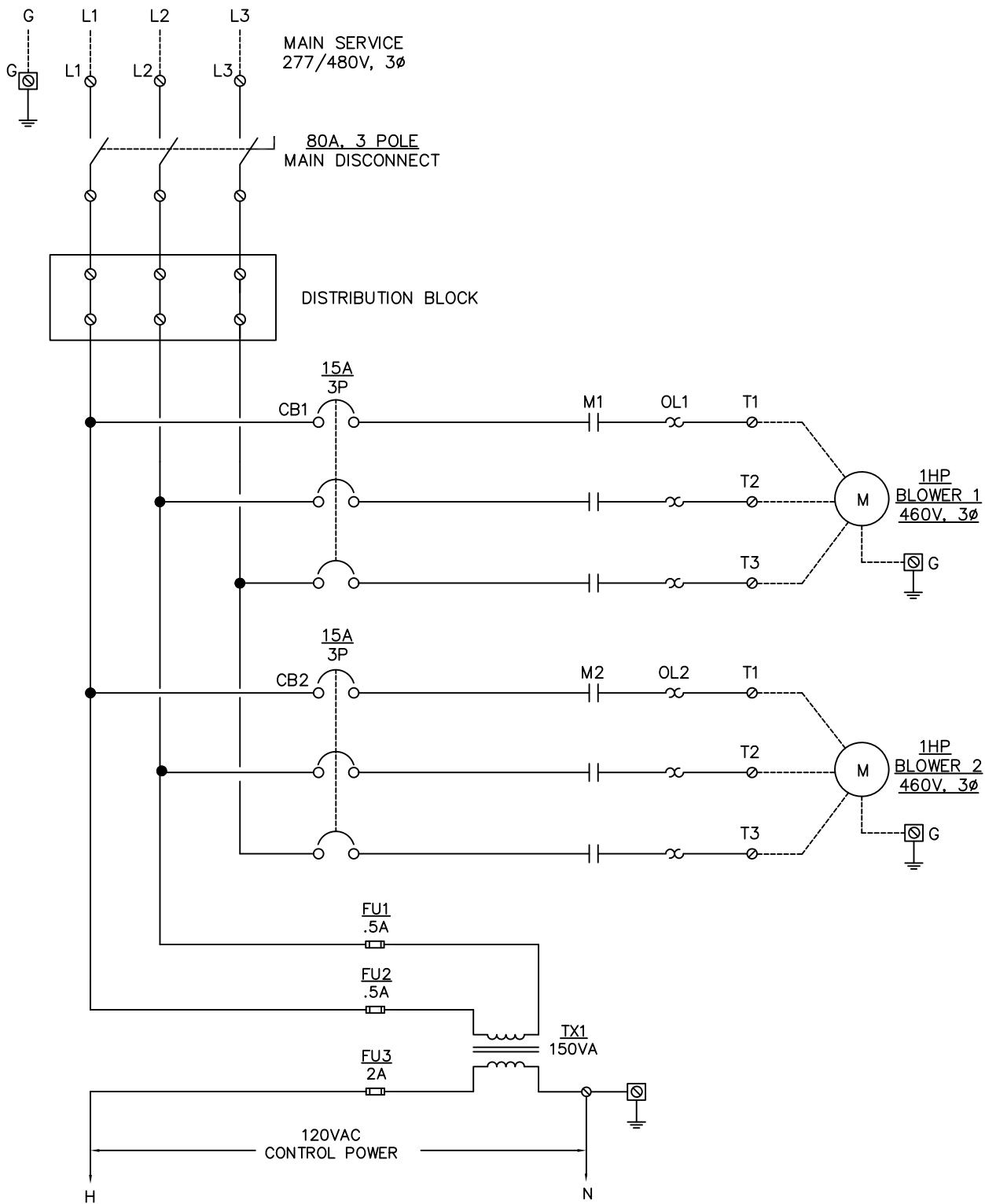
OPTIONS:

SEAL FAIL LIGHTS	<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>	

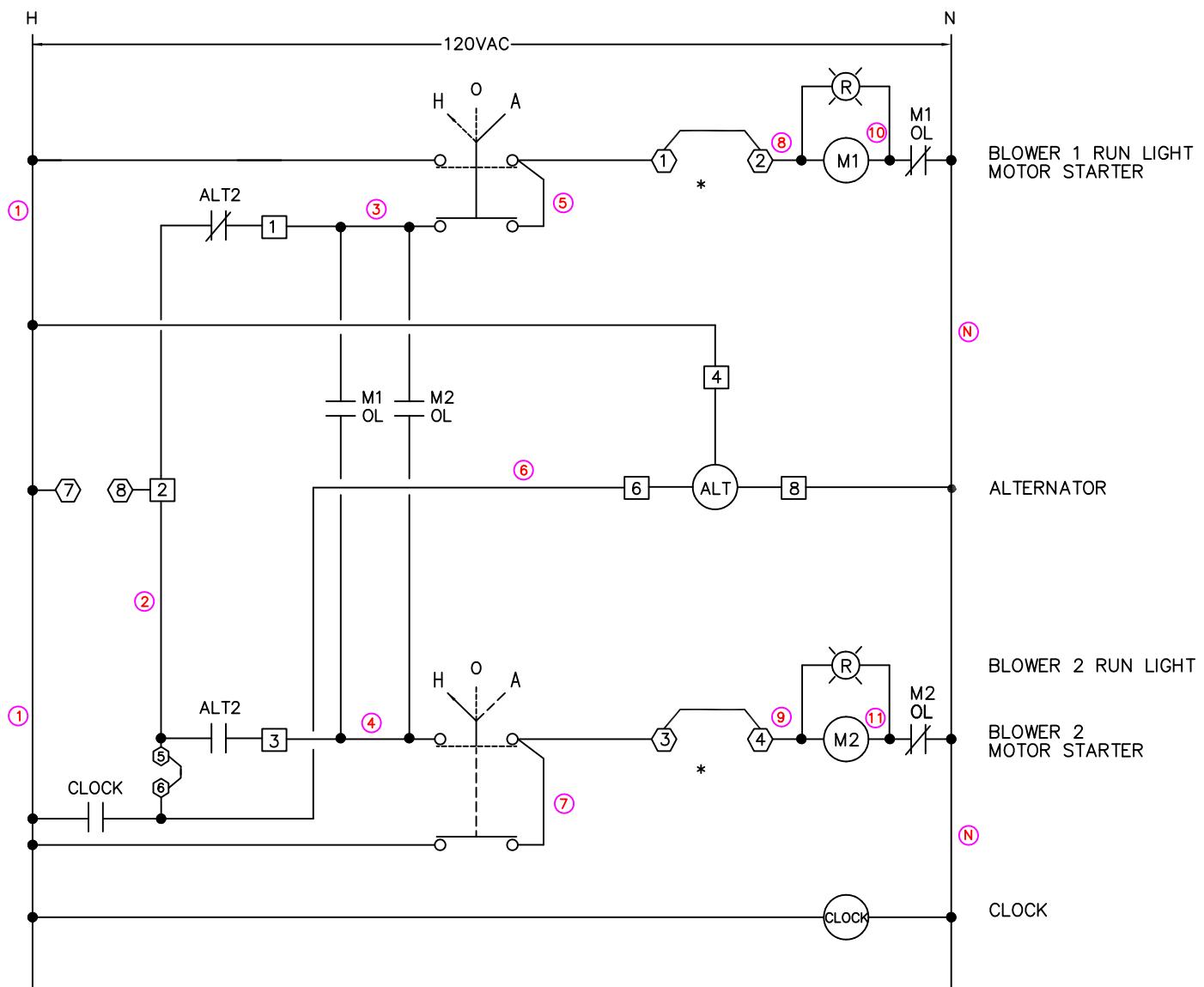
SOLD TO: Delta Process, Denham Springs, LA  
TAG : St. Charles Borromeo

SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title							
	PANEL DESCRIPTION							
			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN
S/N	Sales Engineer	Application Engineer	DRAWN		BY C. RACHAL	BY	APPROVED	DATE
	C.C.	R.C.						BY DATE
DATE 6/01/06	Project Title  DUPLEX BLOWER CONTROL PANEL	<u>                  </u>  <b>COX</b> Research and Technology, Inc. <u>                  </u>	P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
			Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER	CP-2395		
					SHEET NUMBER			1



	Drawing Title  <b>POWER DIAGRAM</b>				
DATE 6/01/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
Project Title  <b>DUPLEX BLOWER CONTROL PANEL</b>	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-2395  SHEET NUMBER 2		

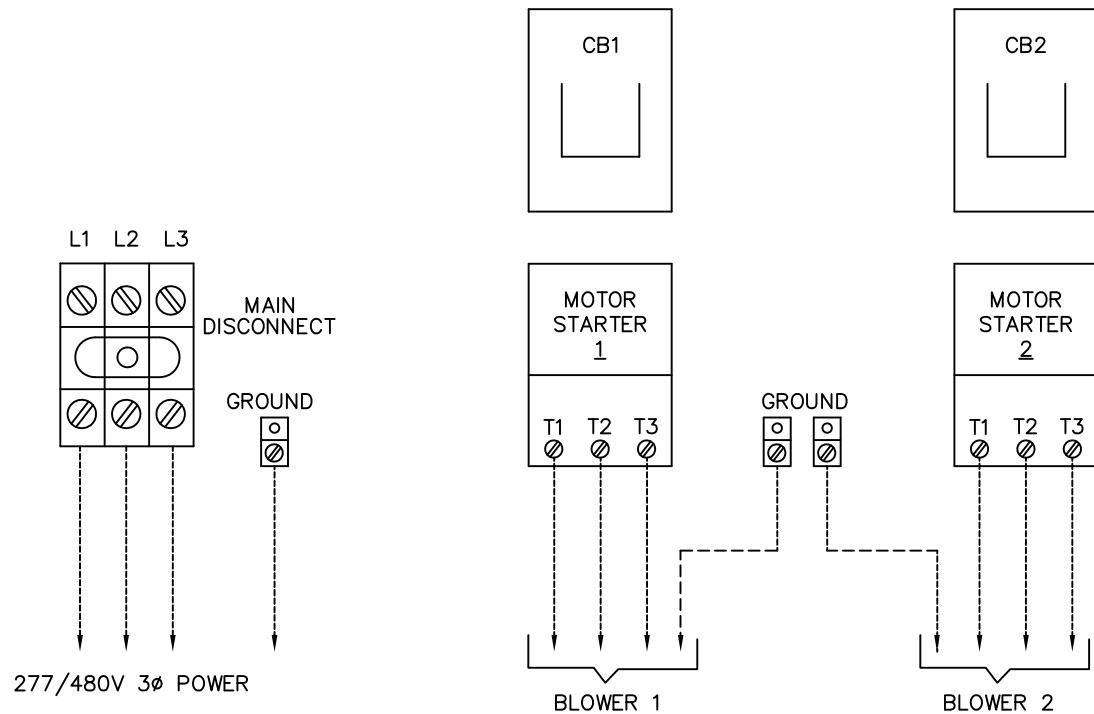


PANEL IS DESIGNED TO RUN AERATORS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.

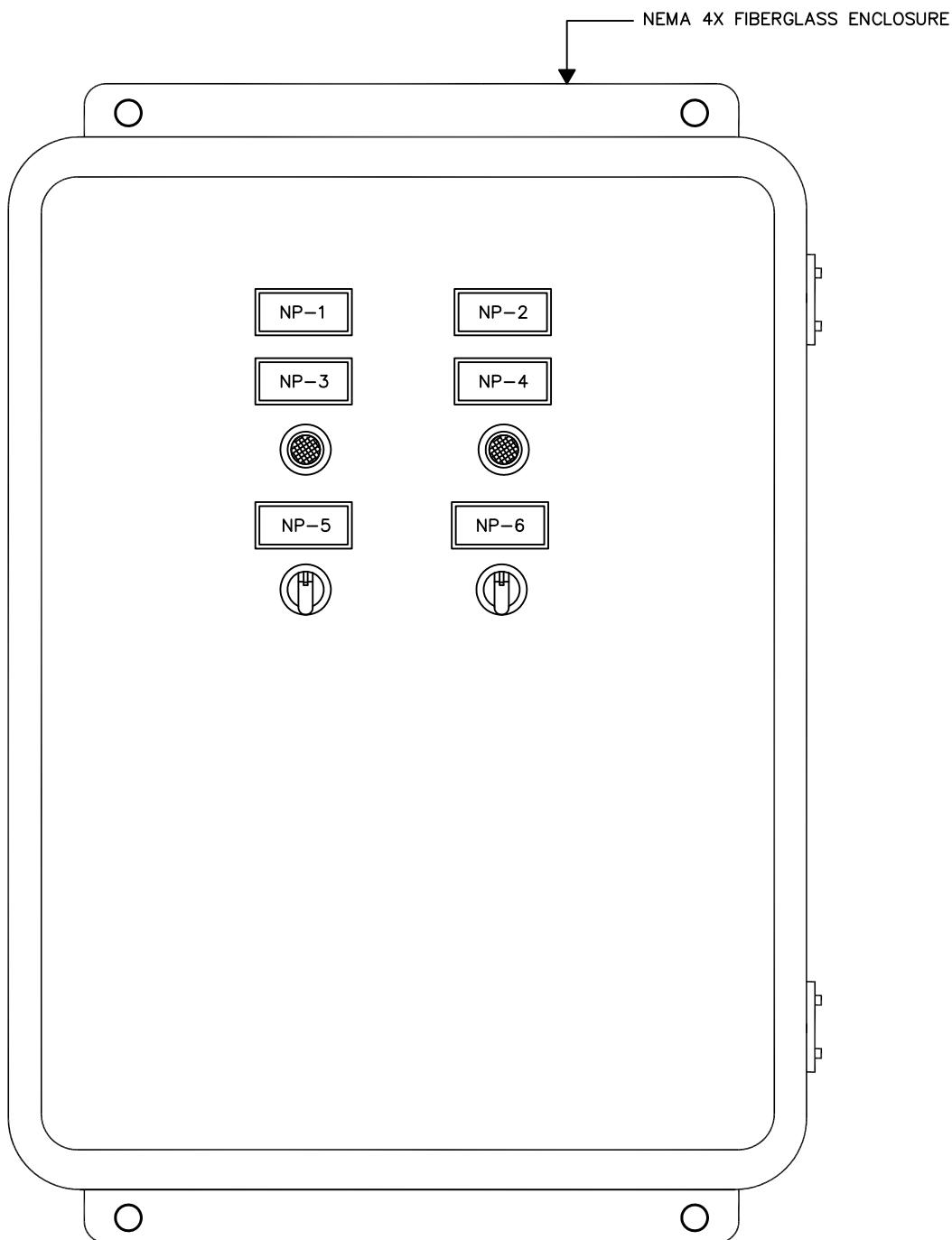
IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW AERATORS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE AERATORS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.

\*REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title <b>CONTROL DIAGRAM</b>					
DATE 6/01/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY
			BY C. RACHAL		APPROVED	
	Project Title <b>DUPLEX BLOWER CONTROL PANEL</b>	<b>COX</b> 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-2395 SHEET NUMBER 3	



	Drawing Title  EXTERNAL CONNECTIONS				
DATE 6/01/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
	Project Title  DUPLEX BLOWER 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-2395  SHEET NUMBER 4	



### VIEW OF FRONT COVER

### NAMEPLATE SCHEDULE

NP-1	BLOWER 1
NP-2	BLOWER 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	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 6/01/06	Project Title  DUPLEX BLOWER CONTROL PANEL	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
		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-2395  SHEET NUMBER 5	

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPL	ENCLOSURE
2	1	STAHLIN	BP1816AL	BACKPLATE
3	2	ABB	A16-30-10-84	STARTER
4	2	ABB	TA25DU2.4	O.L. (1.7-2.4A)
5	2	ABB	T1N015TL	CIRCUIT BREAKER 1,2
6	2	ACI	JR22P3M20B	H.O.A. SWITCH
7	1	TIMEMARK	261DT120	ALTERNATING RELAY
8	1	GRASSLIN	FM/1 STUZH-L	TIMER
9	2	ACI	JR22FR	RED PILOT LIGHT
10	1	ABB	T4150PSF1	TRANSFORMER
11	1	ABB	OT63E3	DISCONNECT SWITCH
12	1	MARATHON	1323580	DISTRIBUTION BLOCK

	Drawing Title						
	<b>BILL OF MATERIALS</b>						
DATE 6/01/06	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE BY
	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX BLOWER CONTROL PANEL		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2395	
						SHEET NUMBER 6	