
COX

Research and Technology, Inc.

DUPLEX BLOWER
CONTROL PANEL
WOMACK TRENCHING
WINNSBORO STP
20HP

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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	20	
FLA	54	
TYPE OF PUMP	Blower	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

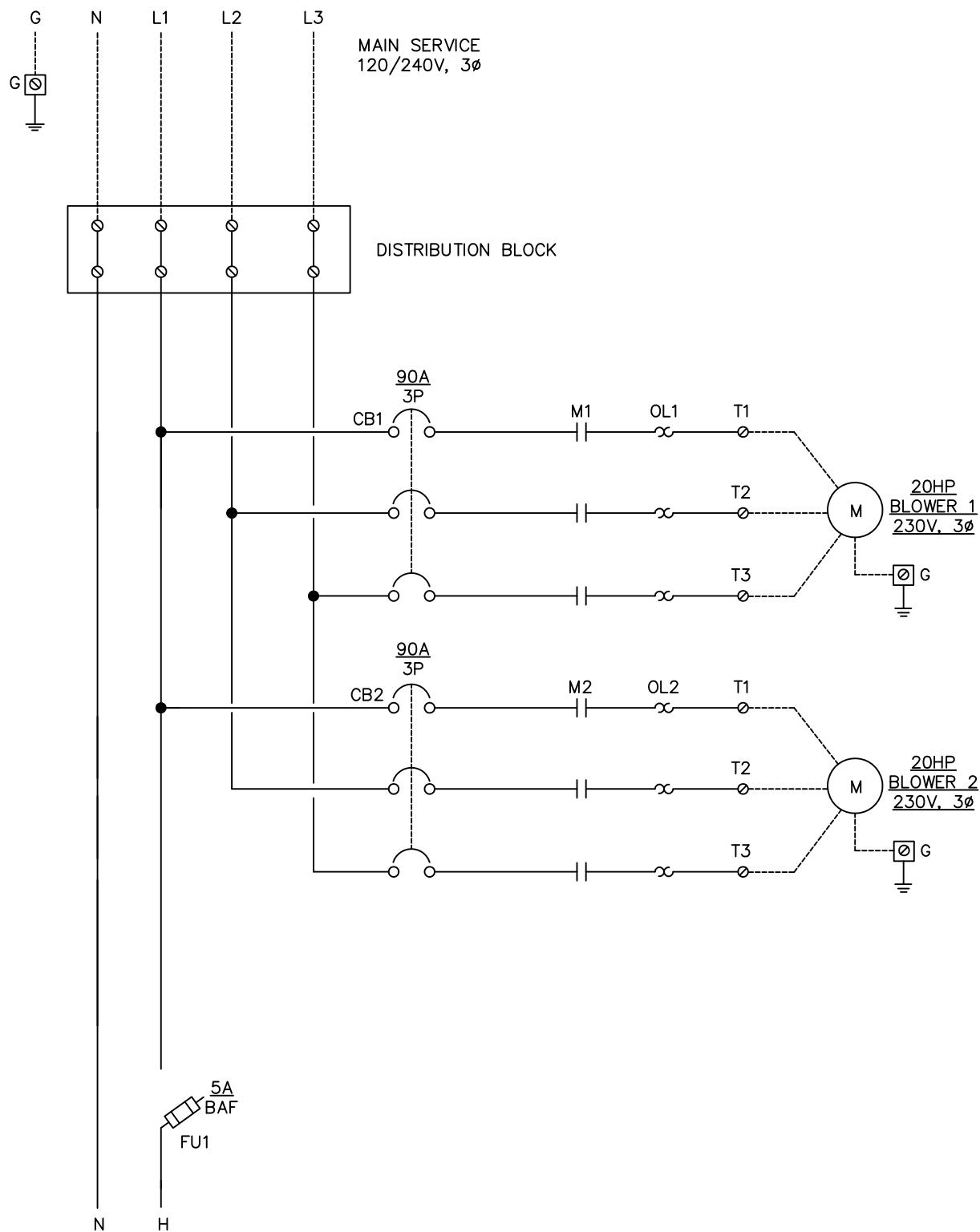
OPTIONS:

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	_____	

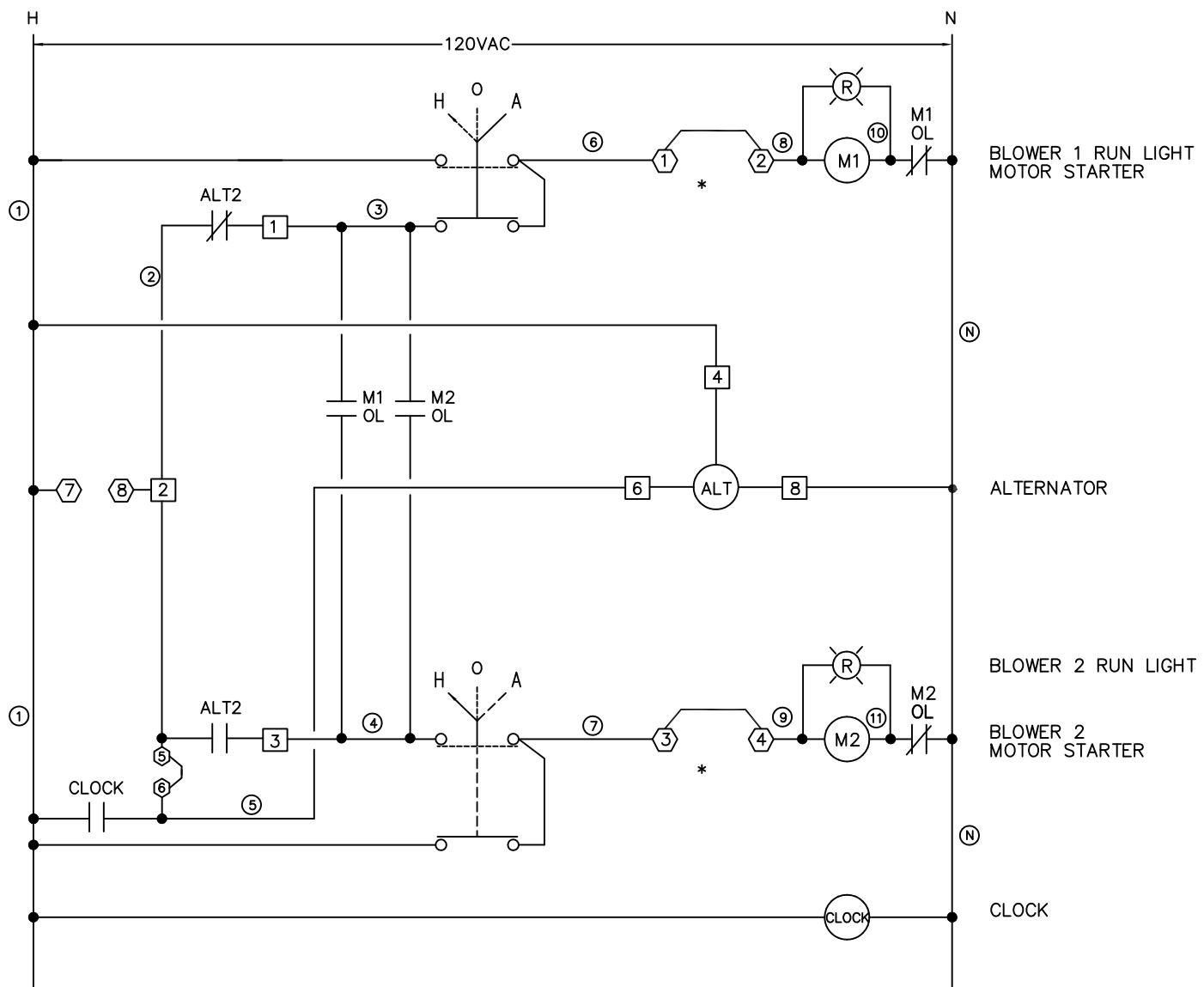
SOLD TO: Delta Process - Ruston, LA
 TAG : Womack Trenching
 Winnsboro STP

SHIP TO: Delta Process - Ruston, LA

DATE 4/01/05	Drawing Title PANEL DESCRIPTION	REFERENCE DRAWING		NO. C.C.	REVISION-LOCATION		ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
		S/N	Sales Engineer		Application Engineer	DRAWN BY		
	Project Title DUPLEX BLOWER CONTROL PANEL						P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER
							Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2026 SHEET NUMBER 1



	Drawing Title POWER DIAGRAM				
DATE 4/01/05	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	PURCHASE ORDER NUMBER		
		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2026		
			SHEET NUMBER 2		

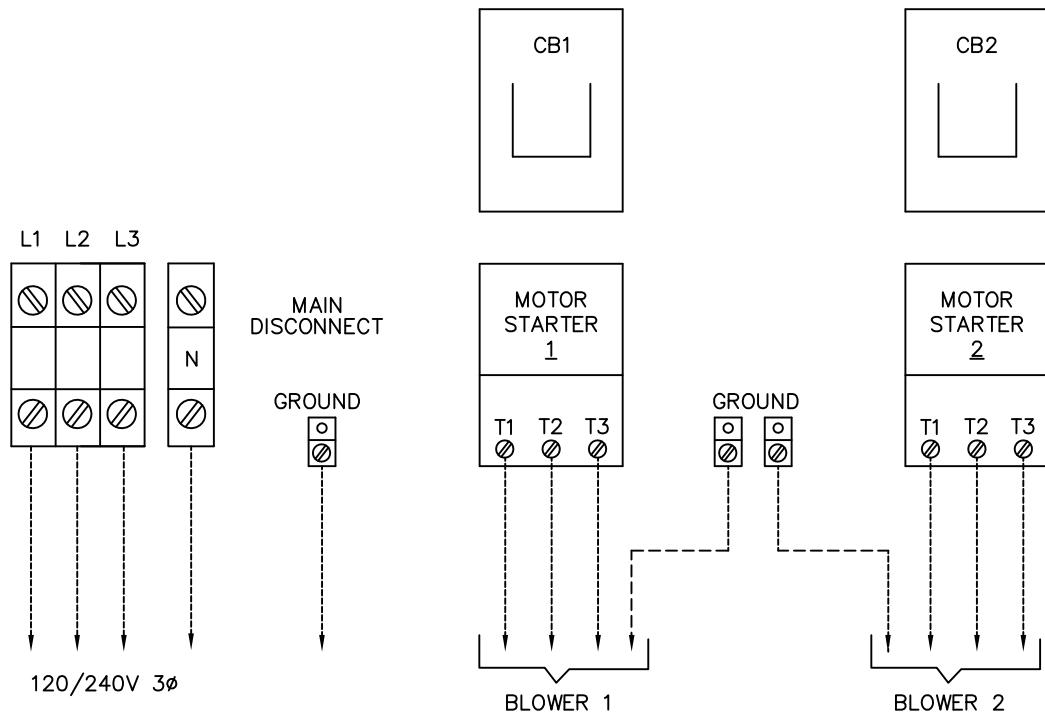


PANEL IS DESIGNED TO RUN AERATORS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.

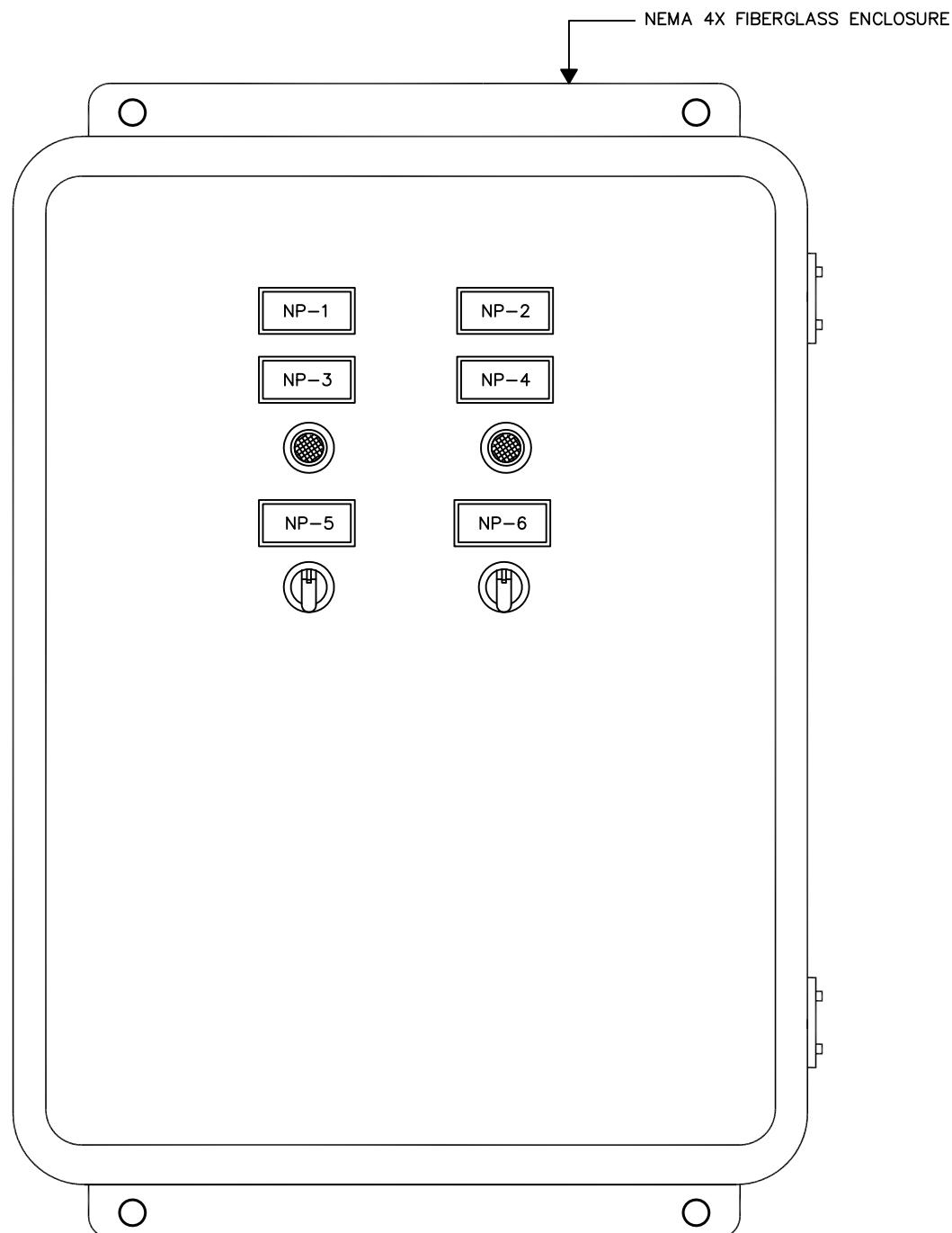
IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW AERATORS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE AERATORS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title CONTROL DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 4/01/05		Application Engineer R.C.			
	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)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2026 SHEET NUMBER 3



	Drawing Title					
	EXTERNAL CONNECTIONS					
DATE 4/01/05	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	
				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2026	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							
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
DATE 4/01/05	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			BY
		C.C.	R.C.	BY C. RACHAL	DATE			BY DATE
	Project Title DUPLEX BLOWER CONTROL PANEL	<u>COX</u> Research and Technology, Inc. <u> </u>			P.O. Box 77808 Baton Rouge, LA 70809			PURCHASE ORDER NUMBER
								DRAWING NUMBER CP-2026
					Ph. (225)756-3271 Fax (225)755-1030			SHEET NUMBER 5

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPL	ENCLOSURE
2	1	STAHLIN	P1816AL	BACKPLATE
3	2	ABB	A63-30-11-84	STARTER
4	2	ABB	TA75DU63	O.L. (45-63A)
5	2	SQUARE D	QOU390	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	MARATHON	1323580	DISTRIBUTION BLOCK
11	1	MARATHON	1321580	NEUTRAL BLOCK
12				
13				
14				
15				
16				

	Drawing Title						
	BILL OF MATERIALS						
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 4/01/05	S/N	Sales Engineer	Application Engineer		DRAWN		APPROVED
		C.C.	R.C.	BY C. RACHAL	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-2026	
						SHEET NUMBER 6	