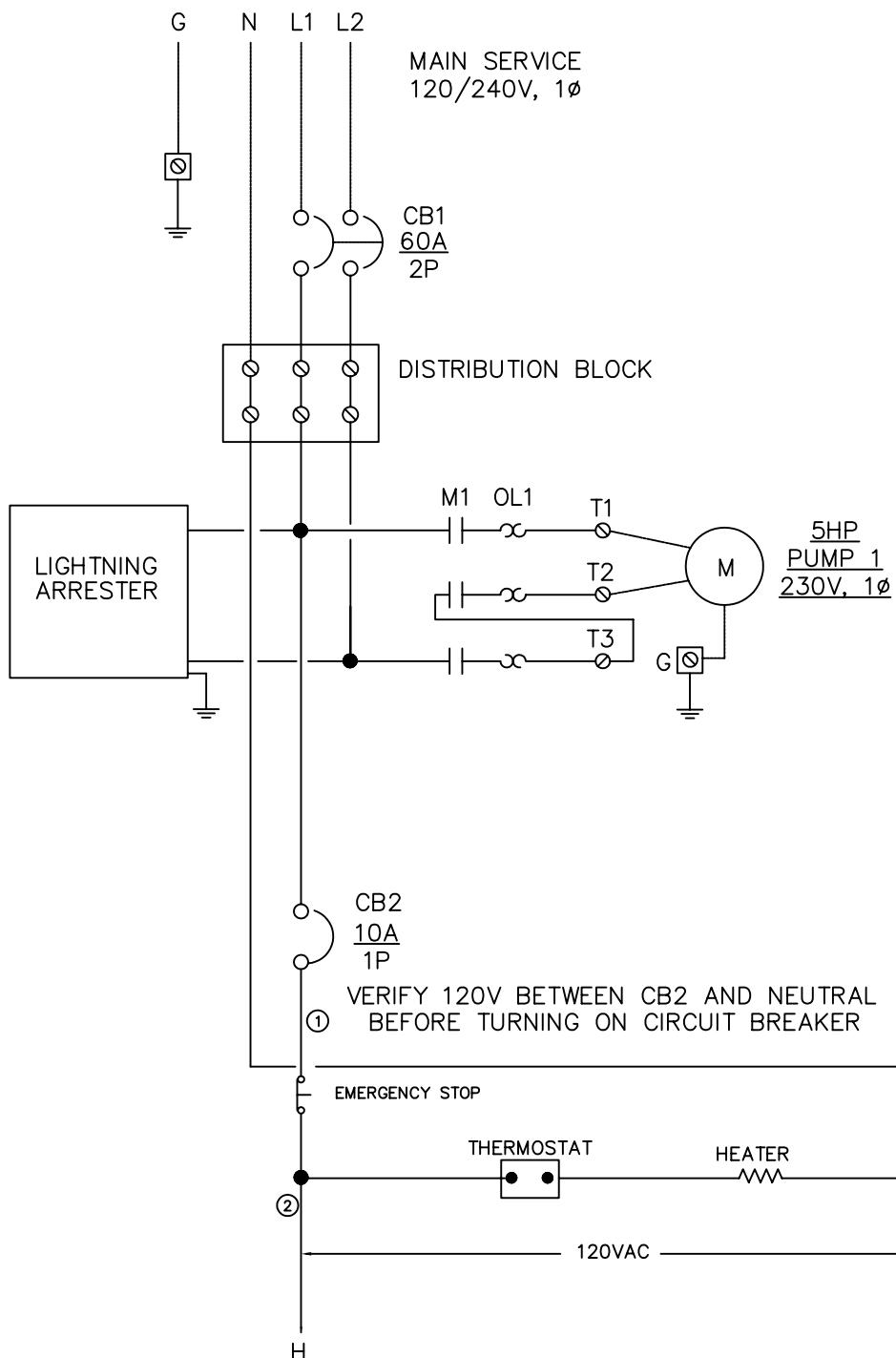

COX

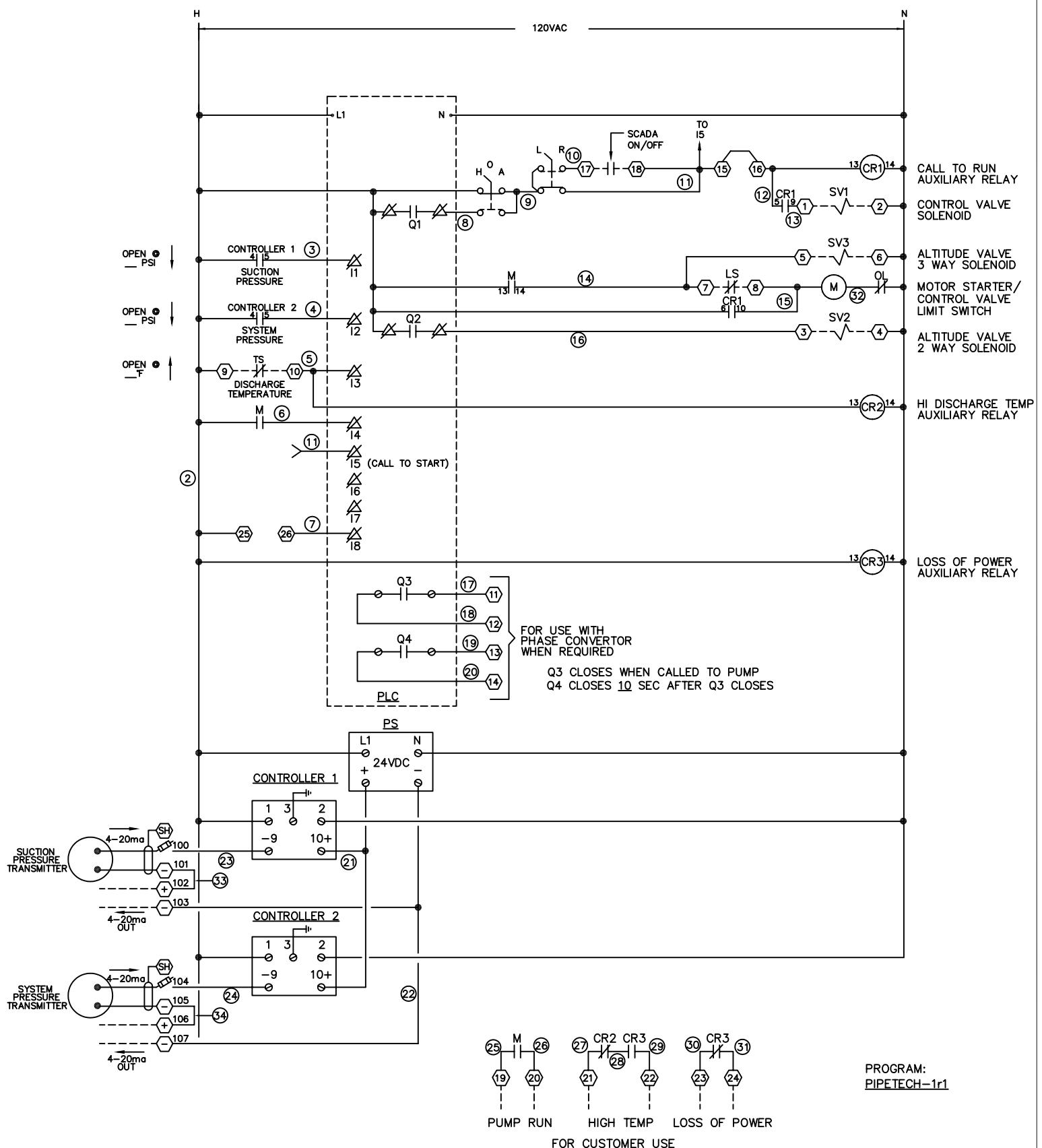
Research and Technology, Inc.

BOOSTER PUMP CONTROL PANEL LEWISBURG-BELLVIEW

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



	Drawing Title POWER DIAGRAM				
DATE 5/12/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY C.RACHAL	DATE APPROVED BY DATE
Project Title BOOSTER PUMP CONTROL PANEL	<hr/> COX <hr/> 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-2385 SHEET NUMBER 1



	Drawing Title CONTROL DIAGRAM DATE 5/12/06						
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN T.L.	ECN	DATE	BY
	Project Title BOOSTER PUMP CONTROL PANEL			BY C.RACHAL		APPROVED	
					BY	DATE	
				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER	CP-2385	
					SHEET NUMBER		2

CONTROL SEQUENCE

					ENERGIZE TO CLOSE A.V.		
					SV3	TANK	SYSTEM
					P	A.V.	
3:00 PM	[BOO1]	X	X	0	X		
10:00 PM	[BOO1]	0	0	0	0		
* SUCTION <u>58</u> PSI ↓		0	0	0	0		
** SYSTEM <u>58PSI</u> ↓		0	0	X	0		
*** TS <u>140</u> ° F ↑		0	0	0	0		

* REMAINS ONE-WAY UNTIL 3:00 PM THE NEXT DAY

** REMAINS TWO-WAY UNTIL 3:00 PM THE NEXT DAY

*** RETRY EVERY 5-20 MIN (ADJ) **[BOO3]**

OVERRIDE SUCTION & SYSTEM PRESSURE TRIPS FOR 0-5 MIN (ADJ)

WHEN PUMP STARTS **[BOO2]**

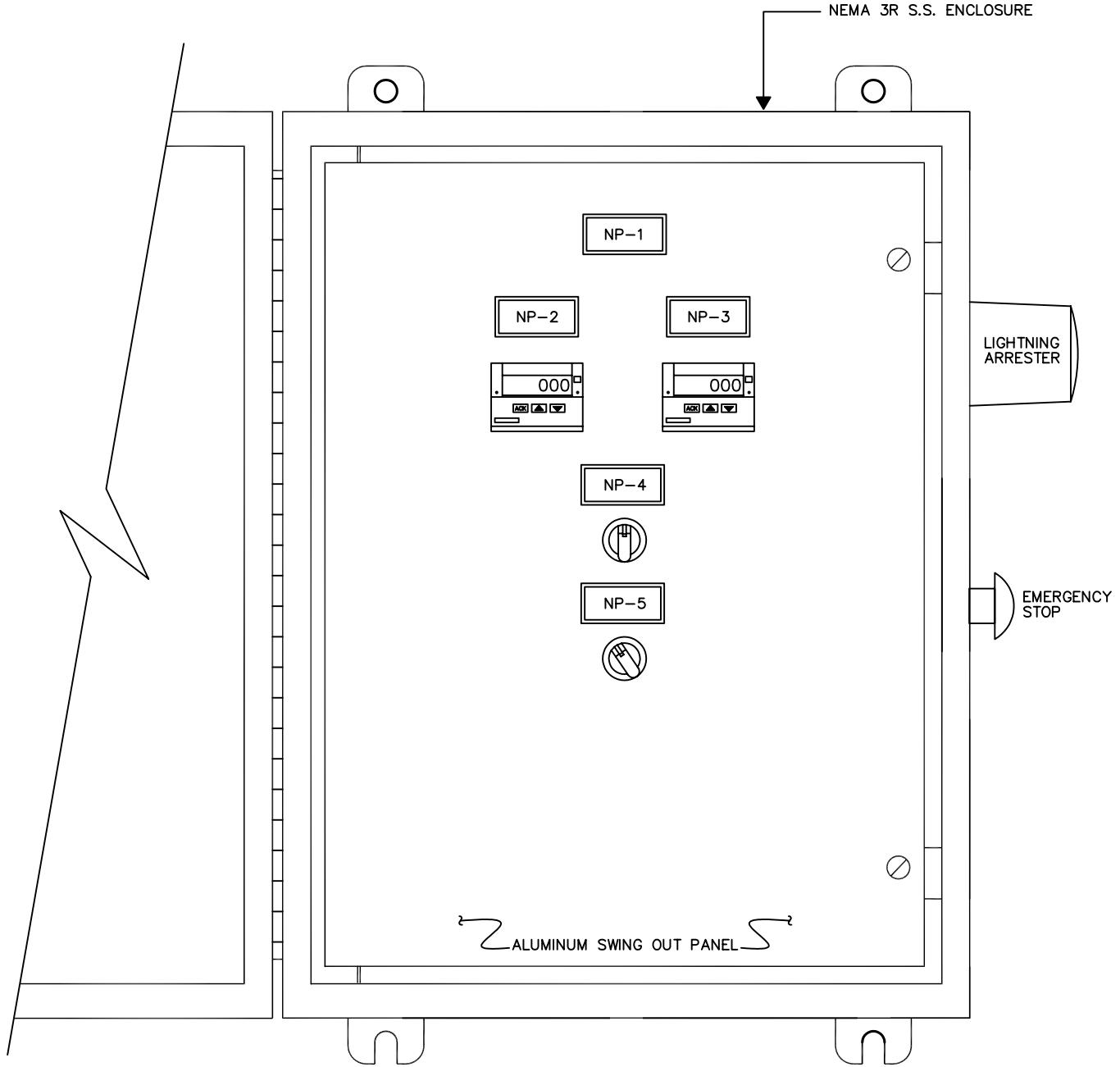
TIMES, PRESSURES AND TEMPERATURES SHOWN ON THIS SHEET ARE TYPICAL
AND MAY NOT BE THE ACTUAL SET POINTS ON A PARTICULAR PROJECT.

X = ENERGIZE

O = DE-ENERGIZE

[BOO1] = PLC SETPOINT BLOCK NUMBER 1

Drawing Title	CONTROL SEQUENCE		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
			S/N	Sales Engineer C.C.	Application Engineer T.L.	DRAWN BY C.RACHAL		APPROVED BY		DATE
DATE 5/12/06	Project Title BOOSTER PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			DRAWING NUMBER CP-2385			
			Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER 3						



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	BOOSTER PUMP CONTROL PANEL
NP-2	SUCTION PRESSURE
NP-3	SYSTEM PRESSURE
NP-4	HAND-OFF-AUTO
NP-5	LOCAL-REMOTE

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 S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY C.RACHAL
Project Title BOOSTER PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> 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-2385 SHEET NUMBER 4	

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	C-201610SRHPL	ENCLOSURE
1a	1	C & I	CI-2016P	BACKPLATE
2	1	ABB	A30-30-10-84	CONTACTOR
3	1	ABB	TA25DU32	O.L. RELAY (24-32A)
4	1	A-B	800H-FRXT6A1	EMERGENCY STOP
5	1	SIEMENS	LOGO! OBA5	PLC
6	1	A-B	800H-JR2A	HOA SWITCH
7	1	A-B	800H-HR2A	LOCAL REMOTE SWITCH
8	1	DELTA	LA302	LIGHTNING ARRESTER
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	ABB	CAL-5	AUXILIARY CONTACTS
11	1	SQUARE D	QUU260	CB1
12	1	SQUARE D	QUU110	CB2
13	3	IDECK	RU4SA110	CR1-3
14	1	SIEMENS	-	24VDC POWER SUPPLY
15	2	MOORE	330R	DIGITAL CONTROLLER
16	1	HOFFMAN	-	CORROSION INHIBITOR
17	1	DAYTON	4BA54	30W HEATER
18	1	SAGINAW	SCE-TMNC	THERMOSTAT
19				

	Drawing Title								
	BILL OF MATERIALS								
DATE 5/12/06			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	<hr/> COX <small>Research and Technology, Inc.</small> <hr/>				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER			
BOOSTER PUMP CONTROL PANEL						DRAWING NUMBER			
						CP-2385			
					SHEET NUMBER				
					5				