
COX

Research and Technology, Inc.

OMEGA PROTEIN LARGE RAW BOX GATE CONTROLS

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

VOLTAGE	120V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS		
HP		
FLA		
TYPE OF PUMP		
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4/12	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

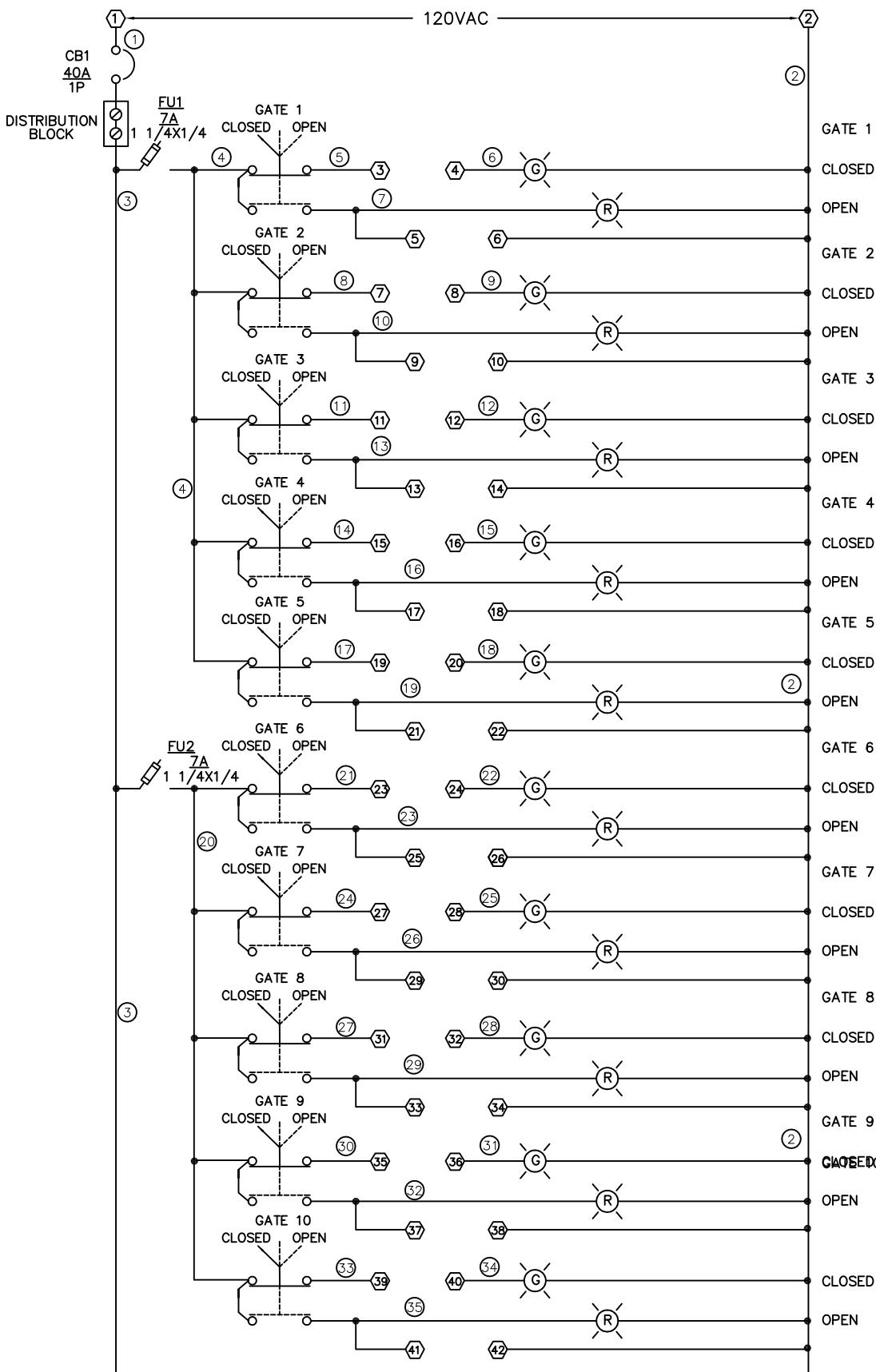
OPTIONS:

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		

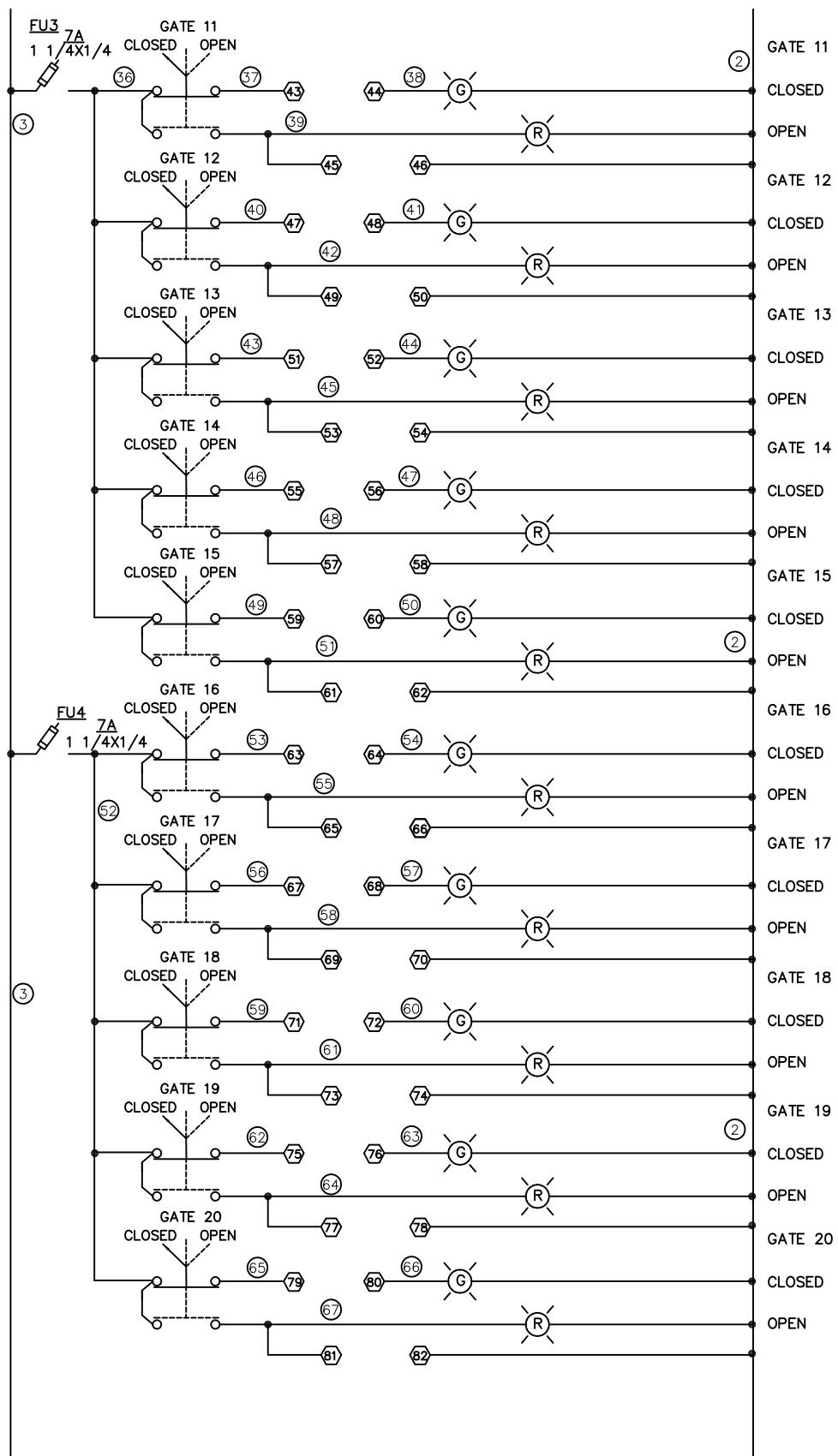
SOLD TO: Omega Protein, Inc.
TAG : Large Raw Box Gate Controls

SHIP TO: Omega Protein, Inc.
9730 Andrew Rd.
Abbeville, LA 70510

	Drawing Title							
	PANEL DESCRIPTION							
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	BY
DATE 12/30/03			C.C.	R.C.	BY C. RACHAL		BY	DATE
	Project Title LARGE RAW BOX GATE CONTROLS	<u>COX</u> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1704		SHEET NUMBER 1	

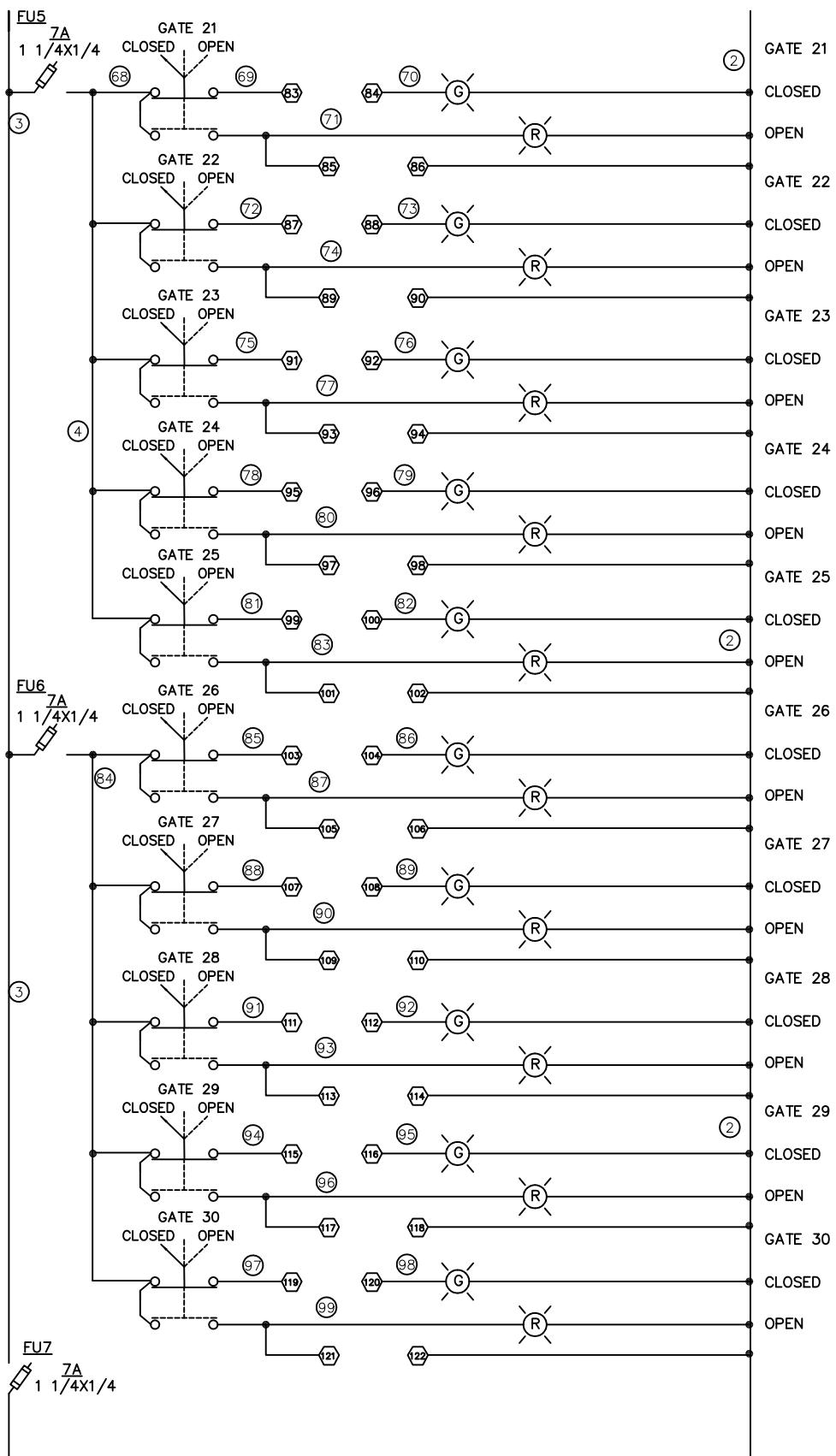


	Drawing Title CONTROL DIAGRAM DATE 12/30/03								
	Project Title LARGE RAW BOX GATE CONTROLS	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED			
				BY C. RACHAL	BY	DATE			
		COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
					Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1704			
						SHEET NUMBER 2			



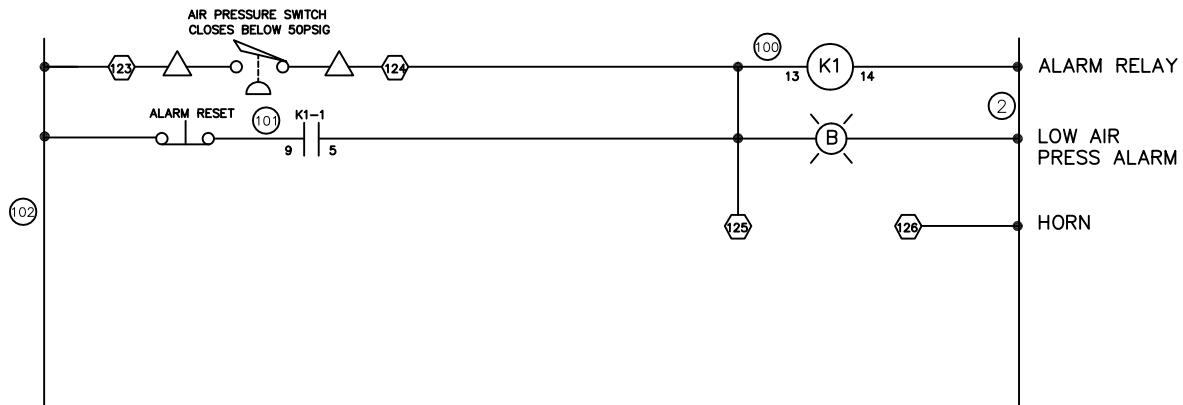
◻ TERMINAL IN CONTROL CABINET
 ----- FIELD WIRING
 △ TERMINAL @ PRESSURE SWITCH

	Drawing Title									
	CONTROL DIAGRAM									
DATE 12/30/03		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					PURCHASE ORDER NUMBER				
	LARGE RAW BOX GATE CONTROLS					DRAWING NUMBER				
	COX					CP-1704				
	Research and Technology, Inc.					SHEET NUMBER				
						3				



○ TERMINAL IN CONTROL CABINET
----- FIELD WIRING
△ TERMINAL @ PRESSURE SWITCH

	Drawing Title								
	CONTROL DIAGRAM								
DATE 12/30/03		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								
	LARGE RAW BOX GATE CONTROLS			COX			PURCHASE ORDER NUMBER		
	Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809			DRAWING NUMBER		
				Ph. (225)756-3271 Fax (225)756-1030			CP-1704		
				SHEET NUMBER			4		



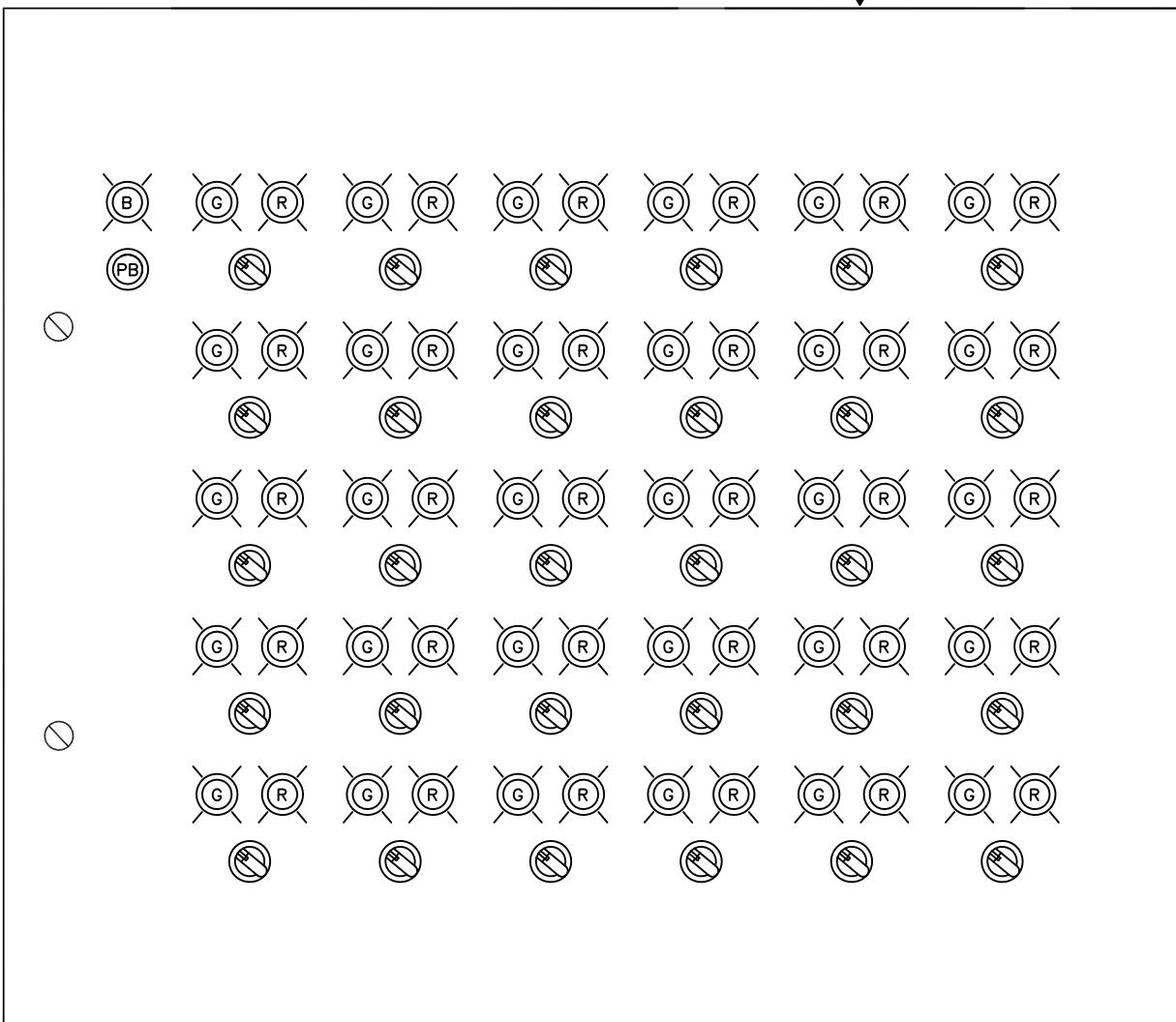
□ TERMINAL IN CONTROL CABINET

----- FIELD WIRING

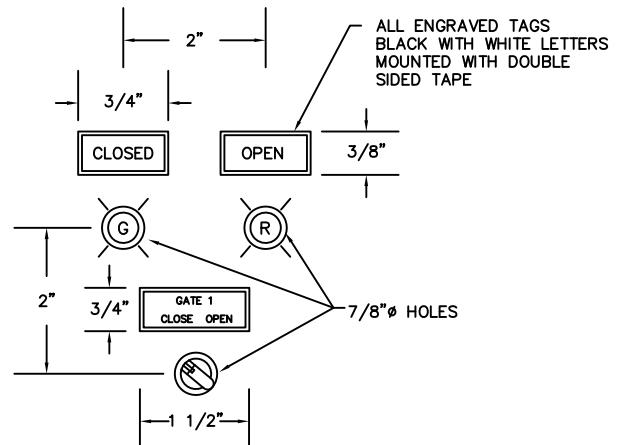
△ TERMINAL @ PRESSURE SWITCH

	Drawing Title					
	CONTROL DIAGRAM					
DATE 12/30/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
	Project Title		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	LARGE RAW BOX GATE CONTROLS	COX Research and Technology, Inc.	Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1704		
				SHEET NUMBER		5

NEMA 4/12 P.S. ENCLOSURE

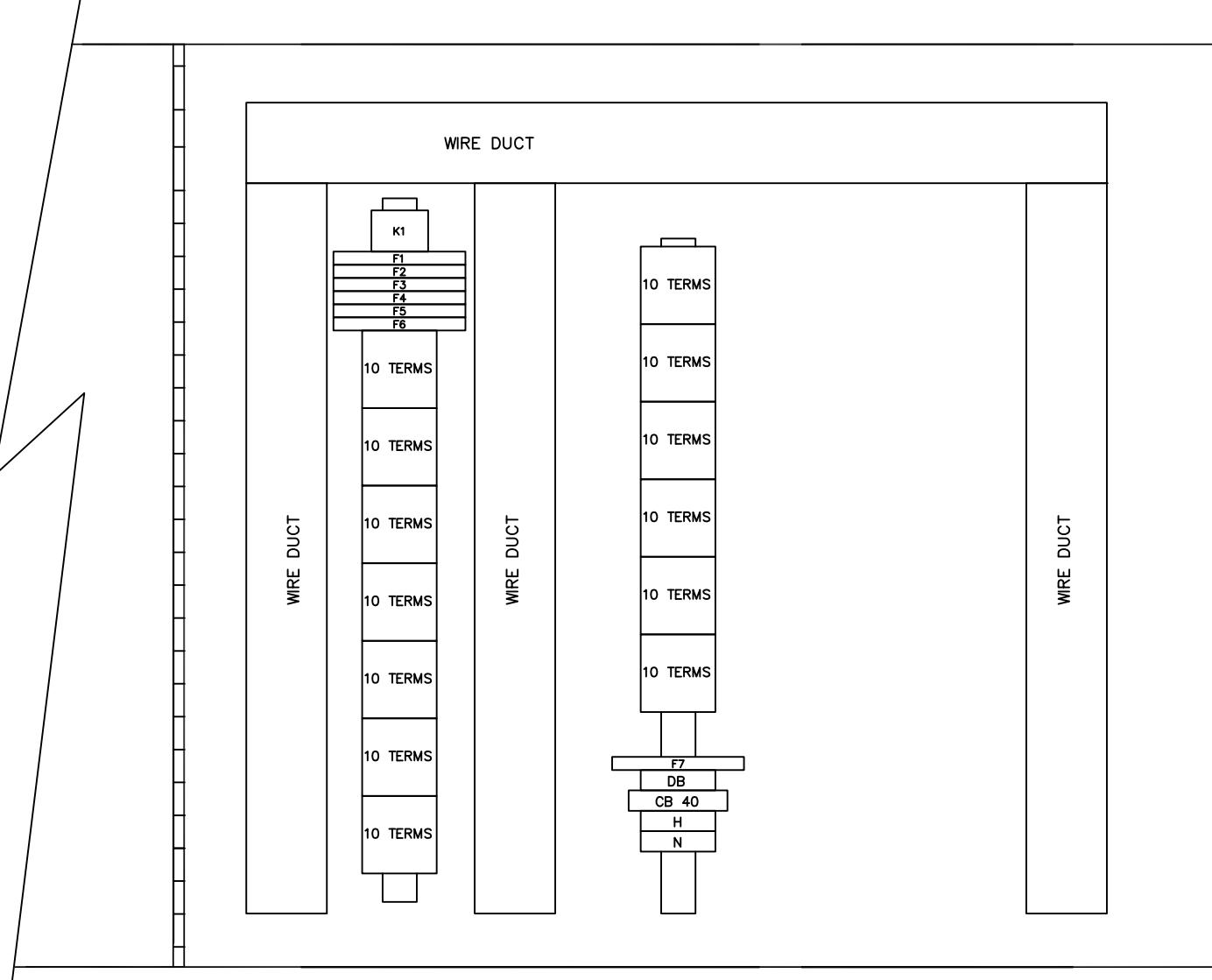


VIEW OF FRONT OF PANEL



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 12/30/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
			DRAWN BY C. RACHAL		APPROVED BY	DATE
	Project Title LARGE RAW BOX GATE CONTROLS	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-1704 SHEET NUMBER 6		



VIEW OF BACK PANEL LAYOUT

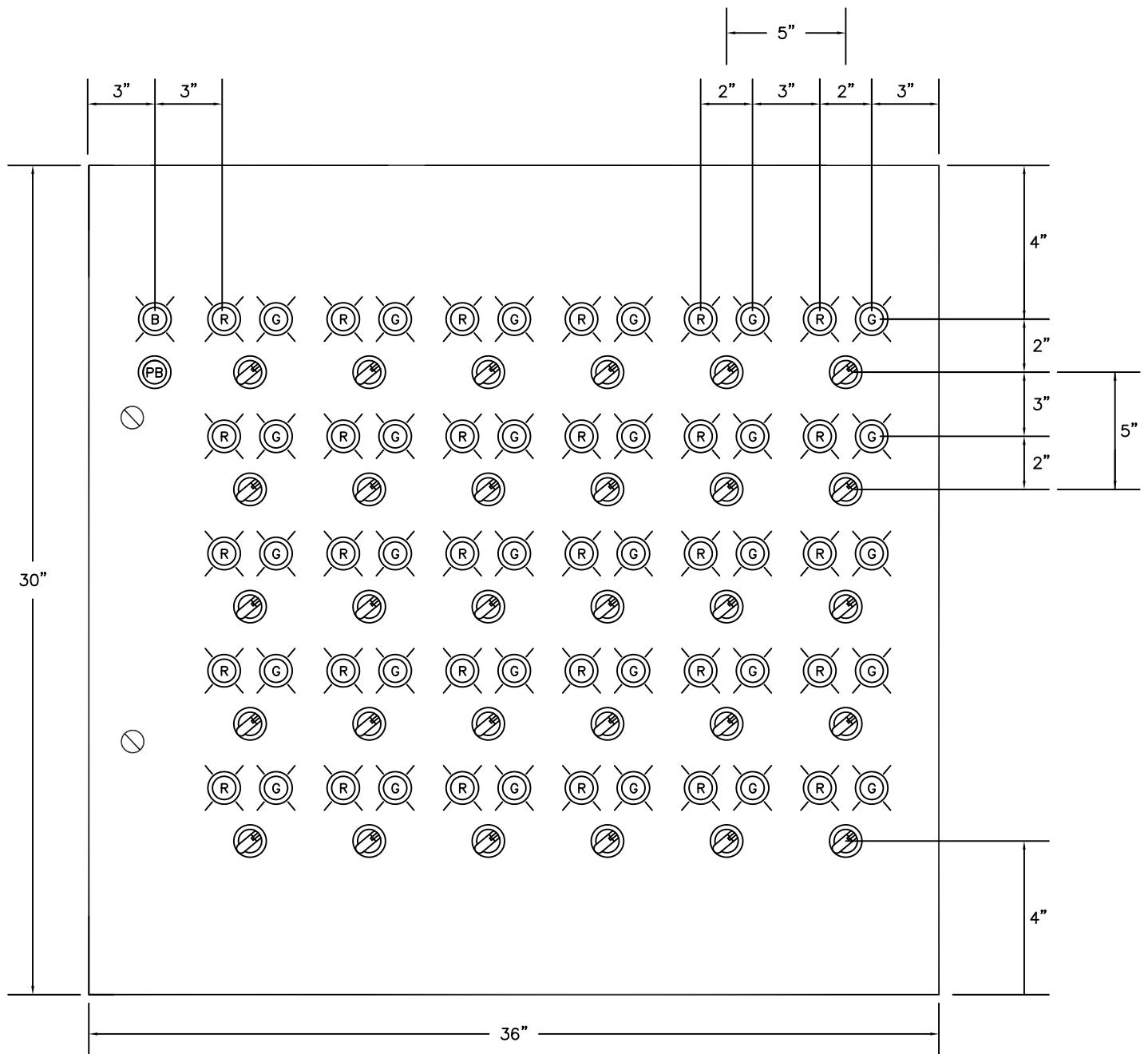
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
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PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title ENCLOSURE					
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
DATE 12/30/03	Project Title LARGE RAW BOX GATE CONTROLS	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-1704 SHEET NUMBER 7

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	30	AUTODIRECT	ECX1051-120	IND LAMP RED
2	30	AUTODIRECT	ECX1052-120	IND LAMP GREEN
3	1	AUTODIRECT	ECX1054-120	IND LAMP BLUE
4	30	AUTODIRECT	GCX1300	2 POS SW
5	6	AUTODIRECT	ECX1030-5	NC CONTACT
6	1	AUTODIRECT	GCX1103	PUSH BUTTON SW YE
7	1	EBE	30368N412	CABINET
8	1	EBE	3036P	BACK PLATE
9	126	WIELAND	57.504.0055.0	TERMINALS
10	1	WIELAND	07.311.0155.0	END PLATE
11	7	WIELAND	57.904.5355.0	FUSE BLOCK
12	1	ABB	98.300.1000.0	DIN RAIL 6'
13	2	ACI	SCUSL	END BLOCK
14	2	WIELAND	Z4.242.6053.0	MARKING CARD
15	1	IDEC	RH2BUAC120V	2 POLE RELAY
16	1	IDEC	SH2B05	2 POLE RELAY BASE
17	1	ABB	05167	2X2 W/COVER 6'
18	96	BAYOU INDUST.		PLASTIC I.D. TAGS
19	1	SQUARE D	QOU140	CIRCUIT BREAKER
20	1	MARATHON	1321580	DISTRIBUTION BLOCK
21				
22				
23				
24				
25				

	Drawing Title									
	BILL OF MATERIALS									
			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 12/29/03			S/N	Sales Engineer	Application Engineer	DRAWN			APPROVED	
				C.C.	R.C.	BY C. RACHAL	BY	DATE		
	Project Title		 COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030			PURCHASE ORDER NUMBER	
	LARGE RAW BOX								DRAWING NUMBER	
	GATE CONTROLS								CP-1704	
						SHEET NUMBER		5		



HOLE LAYOUT

CP-1704

30368N412
92 HOLES - 7/8" Ø (22mm)