
COX

Research and Technology, Inc.

DELTA DOWNS
WATER TREATMENT PLANT
MAIN
CONTROL PANEL

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

CP-1884

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

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>	

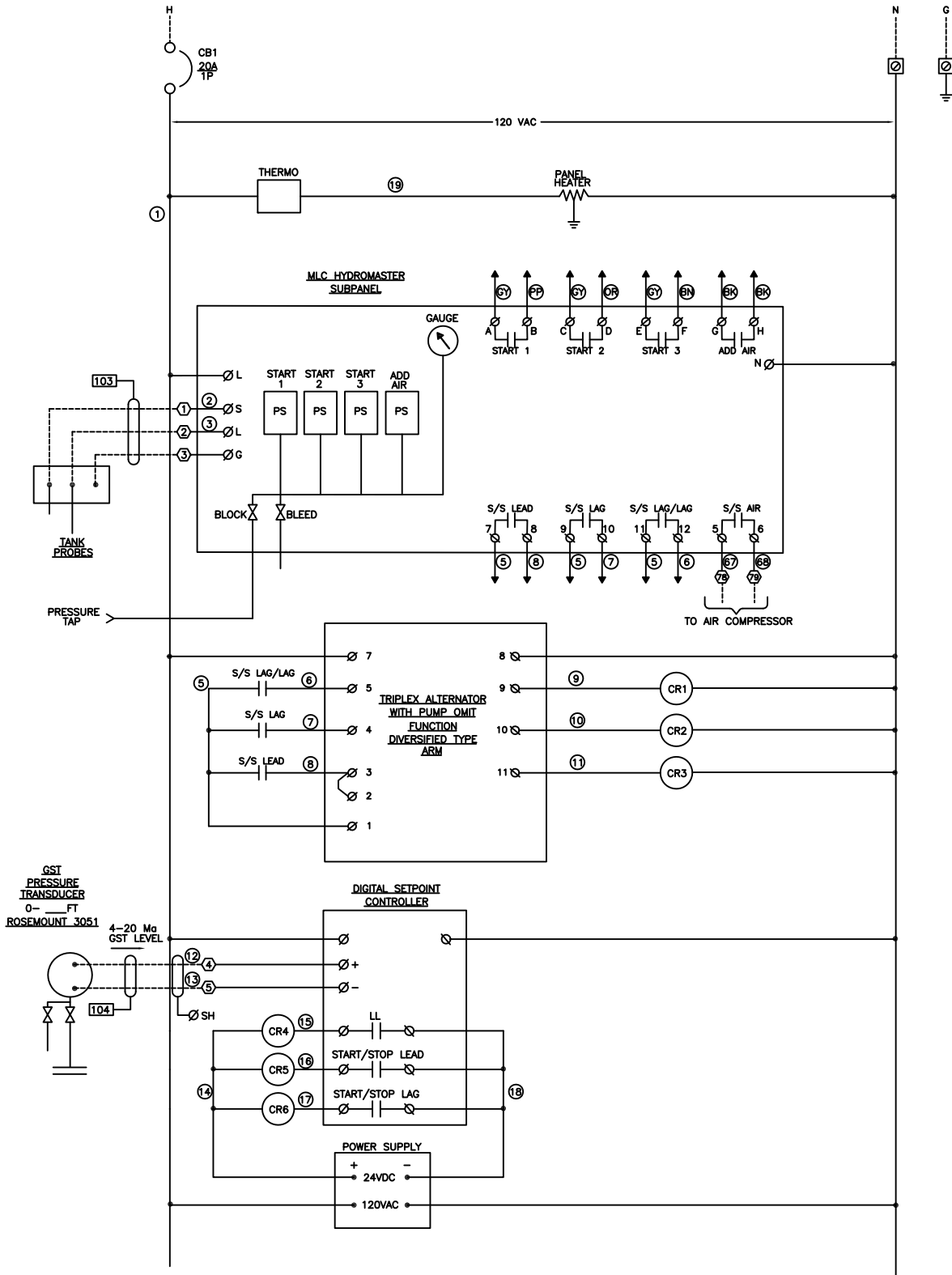
SOLD TO:

TAG : Delta Downs Water Treatment Plant

Main Control Panel

SHIP TO:

	Drawing Title						
	PANEL DESCRIPTION						
9/02/04 8/31/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="text-align: center;">  COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	MAIN CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1884
							SHEET NUMBER 1



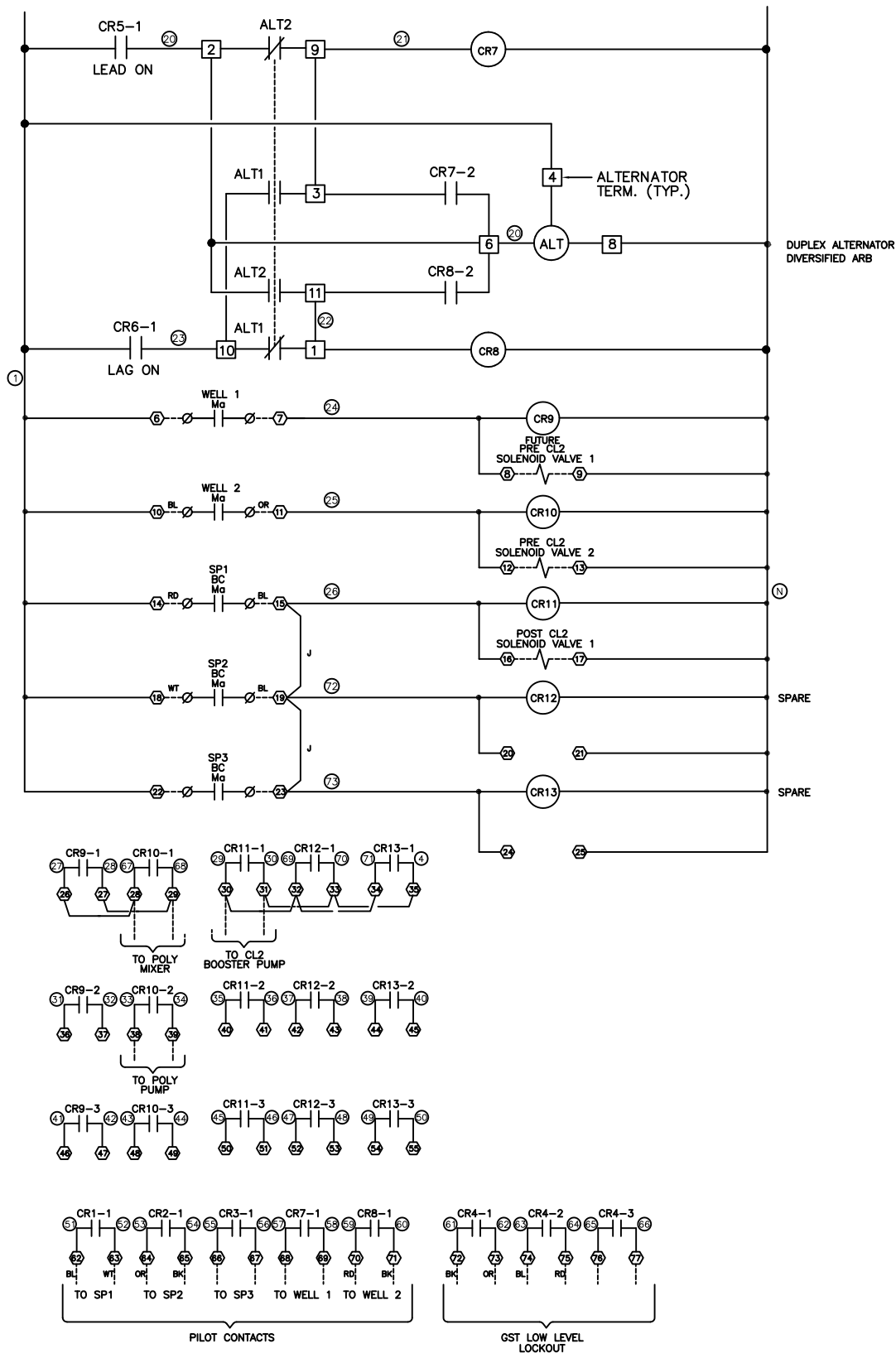
	Drawing Title								
	CONTROL DIAGRAM								
DATE	9/02/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
		S/N	Sales Engineer	Application Engineer	BY	C. RACHAL	BY	DATE	
	Project Title							PURCHASE ORDER NUMBER	
	MAIN CONTROL PANEL							DRAWING NUMBER	CP-1884
								SHEET NUMBER	2

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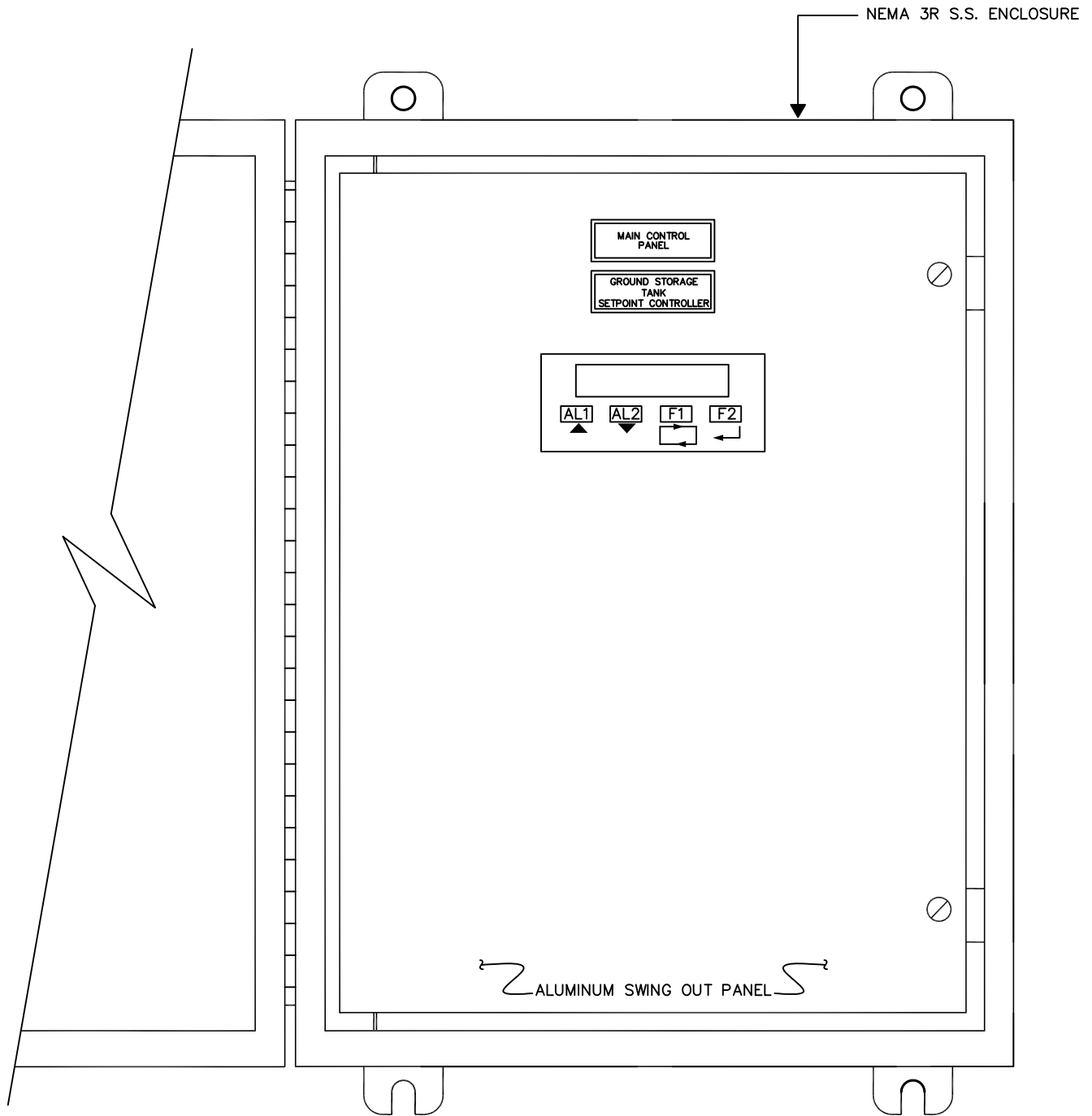
	Drawing Title								
	CONTROL DIAGRAM								
DATE	9/02/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
		S/N	Sales Engineer	Application Engineer					
			C.C.	R.C.	BY C. RACHAL				
	Project Title							PURCHASE ORDER NUMBER	
	MAIN CONTROL PANEL							DRAWING NUMBER	CP-1884
								SHEET NUMBER	3

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VIEW OF SWING OUT PANEL

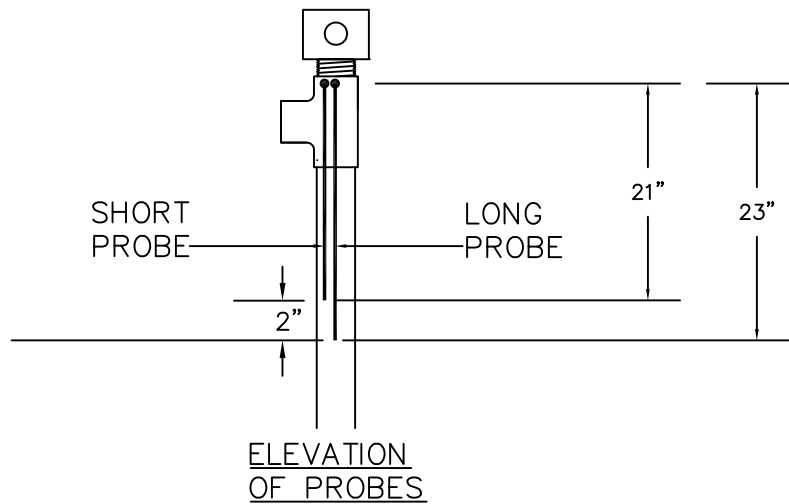
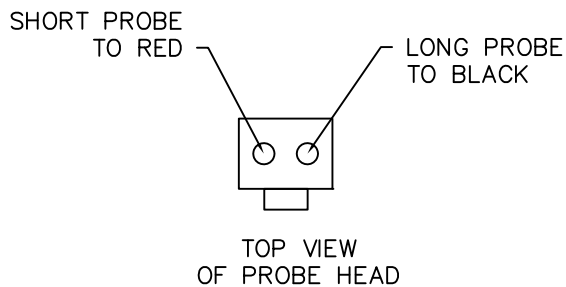
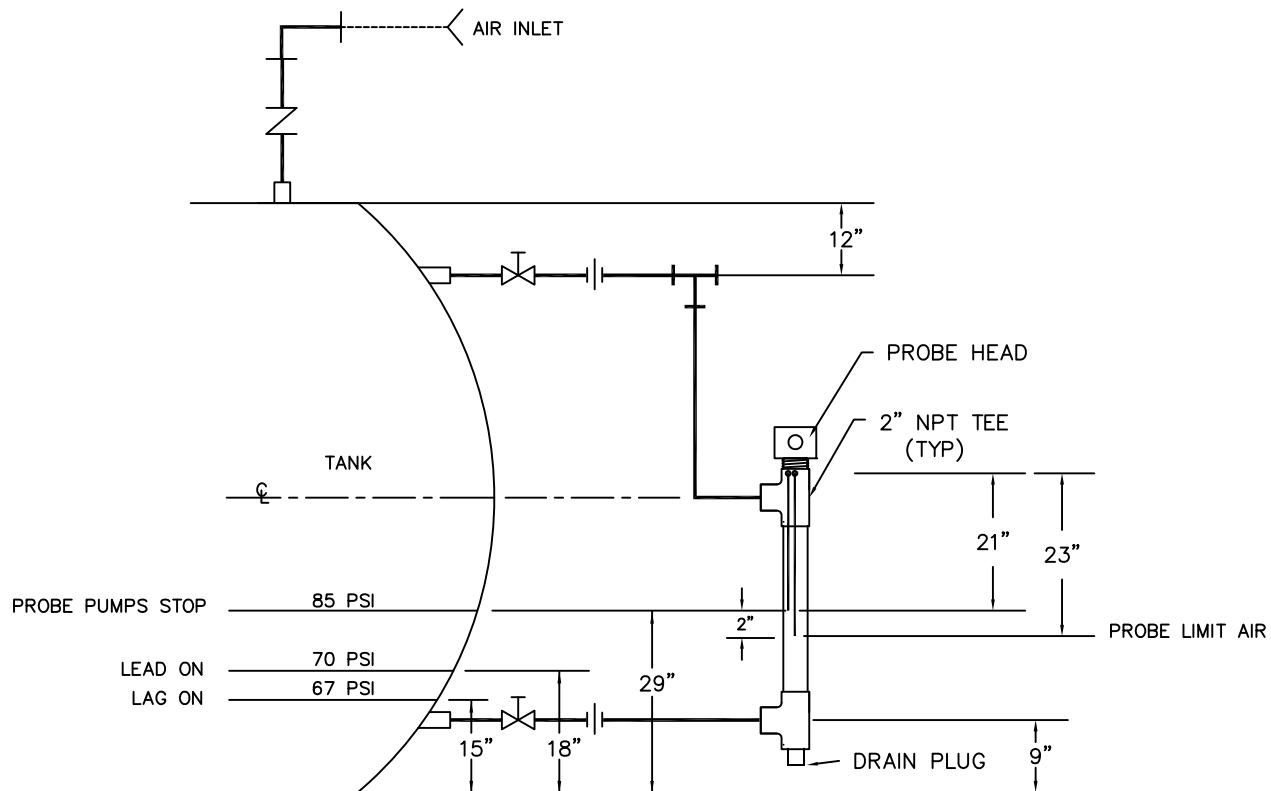
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title								
	ENCLOSURE								
DATE 9/02/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY		
	Project Title				DRAWN BY C. RACHAL		APPROVED BY		
	MAIN CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER		
							DRAWING NUMBER CP-1884		
							SHEET NUMBER 4		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S363010REPL	ENCLOSURE
1a	1	EBE	A3630P	BACKPLATE
2	1	MARATHON	1321580	DISTRIBUTION BLOCK
3	1	SQUARE D	QOU120	CB1
4	1	DIVERSIFIED	ARB-120-ADA	DUPLEX ALTERNATOR
5	1	DIVERSIFIED	ARM-120-ACE	TRIPLEX ALTERNATOR
6	1	VYNCKIER	VESNC	THERMOSTAT
7	1	TEEL	1D008	HEATER
8	1	MASTER LEVEL	H3-224-1	HYDROMASTER
9	1	MASTER LEVEL	3E2B-W	PROBE HEAD (BRASS)
10	1	DIGITEC	D3220	SETPOINT CONTROLLER
11	1	ROSEMOUNT	3051	PRESSURE TRANSMITTER
12	10	IDEC	RU4SAC120	CR1,2,3,7-13
13	1	SIEMENS	6EP1331-1SH01	POWER SUPPLY (24VDC)
14	3	IDEC	RU4SDC24	CR4,5,6
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title						
	<h3 style="margin: 0;">BILL OF MATERIALS</h3>						
DATE 9/02/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> <h2 style="margin: 0;">COX</h2> </div> <p style="margin: 0;">Research and Technology, Inc.</p>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1884 SHEET NUMBER <div style="text-align: right;">5</div>
	<h3 style="margin: 0;">MAIN CONTROL PANEL</h3>						



	Drawing Title							
	PRESSURE TANK CONTROL PIPING							
DATE 9/02/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title					APPROVED		
	MAIN CONTROL PANEL					PURCHASE ORDER NUMBER		
						DRAWING NUMBER CP-1884		
						SHEET NUMBER 6		

DIGITEC D3220 SETTINGS WELLS

UNIT SETUP

INPUT = IDC
INPLO = 4.000
INPLI = 20.000
DSPLO = 0.000
DSPHI = 20.000

AL1 = LOW LEVEL SET @ 6.000
TYPE AL LO
RELAY NO
HYST. 2.000

TURN OFF CR4 @ 6 FEET TO LOCK OUT PUMPS AND BACK ON @ 8 FEET TO RESTORE PUMPS

AL2 = LEAD START SET 23.000
TYPE AL HI
RELAY NC
HYST. 7.000

TURN OFF CR5 @ 23.000 FEET AND RESTORE @ 16 FEET

F1 = LAG START SET 23.000
TYPE AL HI
RELAY NC
HYST. 9.000

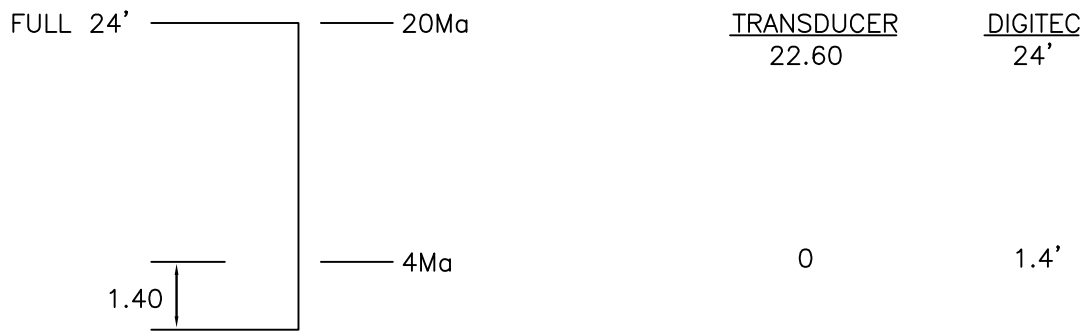
TURN OFF CR6 @ 23.000 FEET AND RESTORE @ 14 FEET

F2 = HIGH LEVEL SET 24.000
(NOT USED) TYPE AL HI
RELAY NO
HYST. OFF

ALL OTHER SETTINGS ARE FACTORY DEFAULT

	Drawing Title						
	DIGITEC D3220 SETTINGS						
DATE 9/02/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER
	MAIN CONTROL PANEL						DRAWING NUMBER CP-1884
							SHEET NUMBER 7

GROUND STORAGE TANK WATER LEVEL EQUIVALENTS



	Drawing Title GST WATER LEVEL EQUIVALENTS							
DATE 9/02/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN BY C. RACHAL	DATE BY	BY DATE	
	Project Title MAIN CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER		
						DRAWING NUMBER CP-1884		
						SHEET NUMBER 8		