

DIMENSIONS

UNLESS OTHERWISE SPECIFIED
INCHES

AND TOLERANCES FOR

1 PLACE DIMS ± 0.1
2 PLACE DIMS ± 0.01
3 PLACE DIMS ± 0.002
ANGULAR DIMS ± 30'
FRACTION DIMS ± 3/32"

0" 1"

THIS LINE EQUALS ONE INCH
IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

REVISIONS

NO.	DATE	REVISION	BY	APP
1.0	8/13	SUBMITTAL	PC	RP
2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
SUPERCEDES
2846-B
REV 3.0

TESTING

TEST	DATE	BY

PRODUCT: CENTERPOINT INTERMODAL
CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE: STORM WATER
LIFT STATION PANEL
COVER SHEET &
DRAWING LIST

CUSTOMER: CONCO WEST, INC

DESIGNED BY	RP	DATE	8/13
DRAWN BY	PC	SCALE	N/A
CHECKED BY	DV	REF.	
APPROVED BY	RP	SHEET	1 OF 1

DRAWING: **B** 7003628 - A00

WIRING COLORS

480/277 VAC POWER, PHASE A	BRN
480/277 VAC POWER, PHASE B	ORN
480/277 VAC POWER, PHASE C	YEL
480/277 VAC NEUTRAL	GRY
240/120 VAC POWER, LINE 1	BLK
240/120 VAC POWER, LINE 2	RED
208/120 VAC POWER, PHASE A	BLK
208/120 VAC POWER, PHASE B	RED
208/120 VAC POWER, PHASE C	BLU
120 VAC UPS POWER	BLK
120 VAC UPS NEUTRAL	WHT
120 VAC NEUTRAL	WHT
120 VAC CONTROL	RED
120 VAC DIGITAL INPUTS	RED
120 VAC DIGITAL OUTPUTS	RED
125 VDC POWER	GRY
125 VDC CONTROL	GRY
125 VDC COMMON	GRY
24 VDC POWER	BLU
24 VDC CONTROL	BLU
24 VDC DIGITAL INPUTS	BLU
24 VDC DIGITAL OUTPUTS	BLU
12 VDC POWER/COMMON	LBL
4-20mA CONTROL, POSITIVE	CLR
4-20mA CONTROL, NEGATIVE	BLK
UNSPECIFIED FOREIGN	YEL
CHASSIS GROUND	GRN

GENERAL NOTES

- NOT SUPPLIED BY MCC-CS. EXISTING EQUIPMENT.
- SUPPLIED BY MCC-CS, MOUNTED & WIRED BY OTHERS.
- SUPPLIED BY OTHERS, MOUNTED & WIRED BY MCC-CS.
- NOTE PERTAINS ONLY TO SHEET ON WHICH IT APPEARS (X)
- (X) BILL OF MATERIAL ITEM [XX] NAMEPLATE SCHEDULE ITEM
- PANEL WIRING: 600V STRANDED TINNED COPPER, TYPE MTW.
- 120VAC POWER AND CONTROL WIRING: 16 AWG MINIMUM.
- 24VDC POWER AND CONTROL WIRING: 16 AWG MINIMUM.
- ANALOG SIGNAL WIRING: TSP, 16 AWG MIN, BELDEN 8719.
- USE WIRING LUGS WITH ALL NON-CAGED TERMINATIONS.
- WIRE MARKERS: HEATSHRINK, WHITE W/ BLACK LETTERING.
- SHRINK WIRE MARKERS LOOSELY TO ALLOW FOR ROTATION.
- UNLESS OTHERWISE NOTED, NUMBER WIRING AS TERMINALS.
- DISCONNECT TERMINAL HINGE SIDE OPPOSITE FIELD WIRING.
- MOUNTING PAN COMPONENTS IDENTIFIED W/ KROY LABELS.
- BOND ENCLOSURES, DOORS, & PANS WITH 12 AWG WIRING.
- MOUNT ALL COMPONENTS W/ STAINLESS STEEL HARDWARE.
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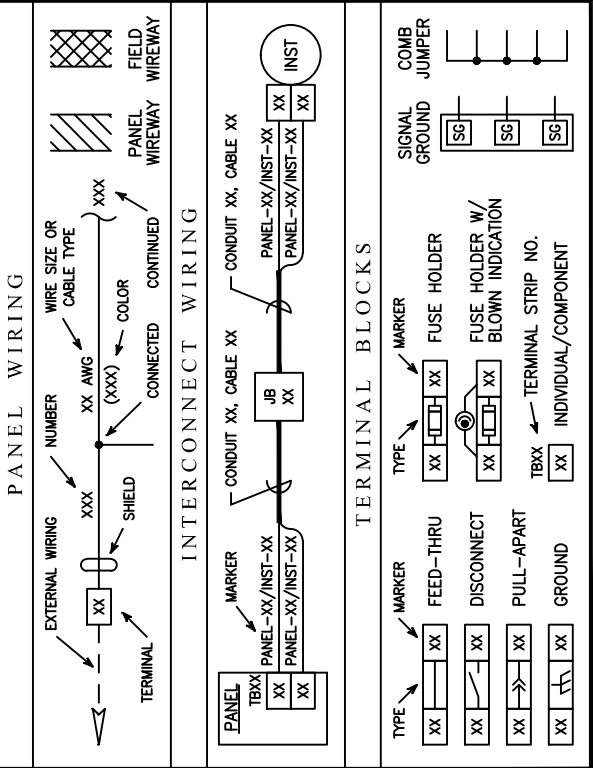
DRAWING LIST

DRAWING	SHEETS	TITLE	REV LEVEL
2846-B00	1	STORM WATER LIFT STATION PANEL COVER SHEET & DRAWING LIST	4.1
2846-B01	1	STORM WATER LIFT STATION PANEL ELEVATION VIEWS & COMPONENT LAYOUT	3.0
2846-B01	2	STORM WATER LIFT STATION PANEL ELEVATION VIEWS & COMPONENT LAYOUT	4.1
2846-B01	3	STORM WATER LIFT STATION PANEL ELEVATION VIEWS & COMPONENT LAYOUT	4.1
2846-B02	1	STORM WATER LIFT STATION PANEL NAMEPLATE SCHEDULE & PANEL LABELS	3.0
2846-B03	1	STORM WATER LIFT STATION PANEL BILL OF MATERIALS	4.1
2846-B04	1	STORM WATER LIFT STATION PANEL POWER DISTRIBUTION SCHEMATIC	3.0
2846-B04	2	STORM WATER LIFT STATION PANEL POWER DISTRIBUTION SCHEMATIC	4.1
2846-B04	3	STORM WATER LIFT STATION PANEL POWER DISTRIBUTION SCHEMATIC	3.0
2846-B04	4	STORM WATER LIFT STATION PANEL POWER DISTRIBUTION SCHEMATIC	3.0
2846-B06	1	STORM WATER LIFT STATION PANEL NETWORK DIAGRAM	3.0
2846-B07	1	STORM WATER LIFT STATION PANEL ANALOG INPUT MODULE SCHEMATIC 1	4.1
2846-B08	1	STORM WATER LIFT STATION PANEL DISCRETE INPUT MODULE SCHEMATIC 1	3.0
2846-B09	1	STORM WATER LIFT STATION PANEL DISCRETE OUTPUT MODULE SCHEMATIC 1	3.0

NOTE:
MODIFICATIONS FOR 7003628 ARE
SHOWN ON THE FOLLOWING DRAWINGS:
A01 SHT. 2
A01 SHT. 3
A03
A04 SHT. 2
A07

ELECTRICAL SYMBOLS

	CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR		CURRENT TRANSFORMER
	FUSE & RATING		POWER TRANSFORMER
	MOTOR STARTER COIL		SOLENOID
	METAL OXIDE VARISTOR		HEATING ELEMENT
	OVERLOAD RELAY		COOLING FAN
	MULTIPLE CELL BATTERY		DUPLEX RECEPTACLE
	CONTROL RELAY COIL		STROBE LIGHT
	INDICATOR LAMP		INDICATOR LAMP PUSH TO TEST
	SOLENOID VALVE		AUDIBLE ALARM HORN
	TWISTED PAIR CABLE		6P4C & 8P8C UTP/STP NETWORK CONNECTOR
	BAYONET & THREADED COAX & F/O CONNECTOR		GROUNDING STUD
	ISOLATED GROUND		CHASSIS GROUND
	EARTH GROUND		



ABBREVIATIONS

ABS	ACRYLONITRILE BUTADIENE STYRENE	MFR	MANUFACTURER
AC	ALTERNATING CURRENT	MH	MANHOLE
A/C	AIR CONDITIONER	MIN	MINIMUM
AE	ANALYZER ELEMENT	MINS	MINUTES
AF	CIRCUIT BREAKER, FRAME SIZE	MOV	MOTOR OPERATED VALVE
AFD	ADJUSTABLE FREQUENCY DRIVE	MS	MOISTURE SWITCH
AI	ANALOG INPUT	MTS	MOUNTING
AIT	ANALYZER INDICATING TRANSMITTER	MUX	MANUAL TRANSFER SWITCH
AMB	AMBER COLOR (A)	N	MULTIPLEXER
AO	ANALOG OUTPUT	NC	NORMALLY CLOSED
AS	ANALYZER SWITCH	NO	NORMALLY OPEN
AT	AMPERE TRIP	NP	NATIONAL PIPE THREAD
AUTO	AUTOMATIC TRANSFER SWITCH	NPT	NATIONAL PIPE THREAD
AWG	AMERICAN WIRE GAUGE	NTS	NOT TO SCALE
BATT	BATTERY	(N)	NEW
BGE	BEIGE COLOR	OT	OPERATOR INTERFACE TERMINAL
BLK	BLACK COLOR	OL	OVERLOAD
BLU	BLUE COLOR (B)	ORN	ORANGE COLOR (O)
BRN	BROWN COLOR	PA	PUBLIC ADDRESS
CAT	CATEGORY	PB	PULL BOX
CB	CIRCUIT BREAKER	PC	PHOTOCELL
CLR	CLEAR COLOR	PE	PRESSURE ELEMENT
COAX	COAXIAL	PF	POWER FACTOR
COM	COMMON	PF	POWER (PHASE) FAIL RELAY
COMM	COMMUNICATIONS	PH	PHASE
CPT	CONTROL POWER TRANSFORMER	PH	PRESSURE INDICATING TRANSMITTER
CPU	CENTRAL PROCESSING UNIT	PLC	PROGRAMMABLE LOGIC CONTROLLER
CPVC	CHLORINATED POLYVINYL CHLORIDE	PNLBD	PANELBOARD
CS	CONTROL STATION	PNK	PINK COLOR
CR	CURRENT TRANSFORMER	PNL	PANEL
DC	DIRECT CURRENT	POS	POSITION
DCS	DISTRIBUTED CONTROL SYSTEM	POT	POTENTIOMETER
DE	DENSITY ELEMENT	PRI	PRIMARY
DJ	DENSITY INDICATING TRANSMITTER	PS	PRESSURE SWITCH
DIT	DIGITAL INPUT	PSI	POUNDS PER SQUARE INCH
DISC	DISCONNECT	PSIA	POUNDS PER SQUARE INCH GAUGE
DO	DOUBLE POLE DOUBLE THROW	PSIG	POUNDS PER SQUARE INCH GAUGE
DPDT	DOUBLE POLE DOUBLE THROW	PT	PRESSURE TRANSMITTER
DWG	DRAWING	PTE	PUSH TO TEST
E	EMERGENCY	PUR	PURPLE COLOR (P)
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EMT	ELECTRICAL METALLIC TUBING	PWF	POLYETHYLENE FLUORIDE (KYNAR)
ETM	ELAPSED TIME METER	PWR	POWER
(E)	EXISTING	QTY	QUANTITY
FE	FUSE	RECEPT	RECEPTACLE
FE	FLOW ELEMENT	RED	RED COLOR (R)
FIT	FLOW INDICATING TRANSMITTER	REF	REFERENCE
FLA	FULL LOAD AMPERES	REM	REMOTE
FLUOR	FLUORESCENT	RGS	RIGID GALVANIZED STEEL
FS	FIBER OPTICS	RIO	REMOTE INPUT/OUTPUT
FVNR	FLOW SWITCH	RMS	ROOT MEAN SQUARED
FVR	FULL VOLTAGE NON-REVERSING	RTD	RESISTIVE THERMAL DEVICE
(F)	FUTURE	RTU	REMOTE TELEMETRY UNIT
G	GROUND	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
GEN	GENERATOR	(R)	RELOCATED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SEC	SECONDS, SECONDARY
GND	GROUND	SER	SERIAL
GRN	GREEN COLOR (G)	SHD	SHIELD
GRY	GRAY COLOR	SIC	SPEED INDICATING TRANSMITTER
H	HAND	SIT	SPEED INDICATING TRANSMITTER
HH	HAND HOLE	SP	SETPOINT
HOA	HAND-OFF-AUTO	SPDT	SINGLE POLE DOUBLE THROW
HP	HORSEPOWER	SPST	SINGLE POLE SINGLE THROW
HRS	HOURS	SS	SOFT STARTER
HS	HAND SWITCH	SV	SOLENOID VALVE
HTR	HEATER	SW	SWITCH
HZ	HERTZ	SWBD	SWITCHBOARD
INCAND	INTERMEDIATE METALLIC CONDUIT	SWGR	SWITCHGEAR
IND	INDICAND	TB	TERMINAL BLOCK
IND	INDICATION	TDOD	TIME DELAY ON DE-ENERGIZATION
INST	INSTRUMENT	TDDE	TIME DELAY ON ENERGIZATION
I/O	INPUT/OUTPUT	TE	TEMPERATURE ELEMENT
ISB	INTRINSICALLY SAFE BARRIER	TEL	TELEMETRY
ISR	INTRINSICALLY SAFE RELAY	TELO	TELEPHONE COMPANY
JB	JUNCTION BOX	TEMP	TEMPERATURE
KAIC	THOUSAND AMP INTERRUPTING CURRENT	TEMP	TEMPERATURE
KMIL	THOUSAND CIRCULAR MILS	TM	THERMAL MAGNETIC
KVA	KILOVOLT AMPERE	TR	TEMPERATURE SWITCH
L	LINE	TR	TEMPERATURE SWITCH
LBL	LIGHT BLUE COLOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
LBS	POUNDS	V	VOLTS
LCP	LOCAL CONTROL PANEL	VA	VOLT AMPS
LCS	LOCAL CONTROL STATION	VAR	VOLT AMPERE REACTIVE
LE	LEVEL ELEMENT	VFD	VARIABLE FREQUENCY DRIVE
LEV	LEVEL INDICATING TRANSMITTER	VLT	VARIABLE FREQUENCY DRIVE
LOC	LOCAL	VM	VOLTMETER
LOR	LOCAL-OFF-REMOTE	W	WATTS
LP	LIGHTING PANEL	WHT	WHITE COLOR (W)
LR	LATCHING RELAY	WP	WEATHERPROOF
LS	LEVEL SWITCH	WS	WEATHERPROOF
LT	LEVEL TRANSMITTER	WT	TORQUE SWITCH
LTD	LIGHTING	XFMR	TRANSFORMER
LTD	LIGHTING	XMTR	TRANSMITTER
M	MOTOR STARTER	Y	YELLOW COLOR (Y)
MA	MAXIMUM	ZIC	POSITION INDICATING CONTROLLER
MAX	MAXIMUM	ZIT	POSITION INDICATING TRANSMITTER
MCC	MOTOR CONTROL CENTER	ZS	LIMIT SWITCH
MCP	MOTOR CIRCUIT PROTECTOR		

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CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE: STORM WATER
LIFT STATION PANEL
ELEVATION VIEWS &
COMPONENT LAYOUT

CUSTOMER: CONCO WEST, INC

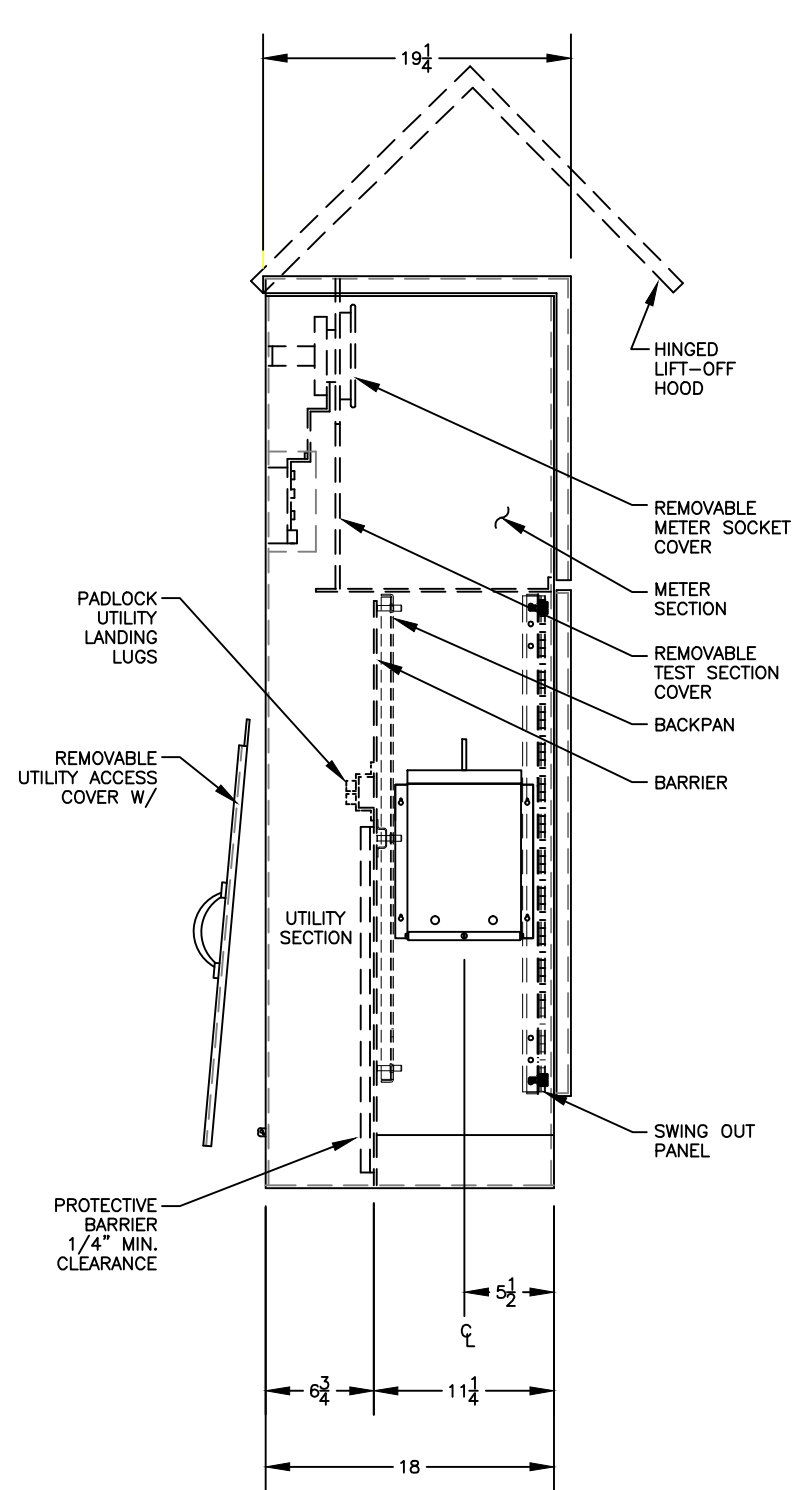
DESIGNED BY: RP DATE: 8/13

DRAWN BY: PC SCALE: 1 : 12

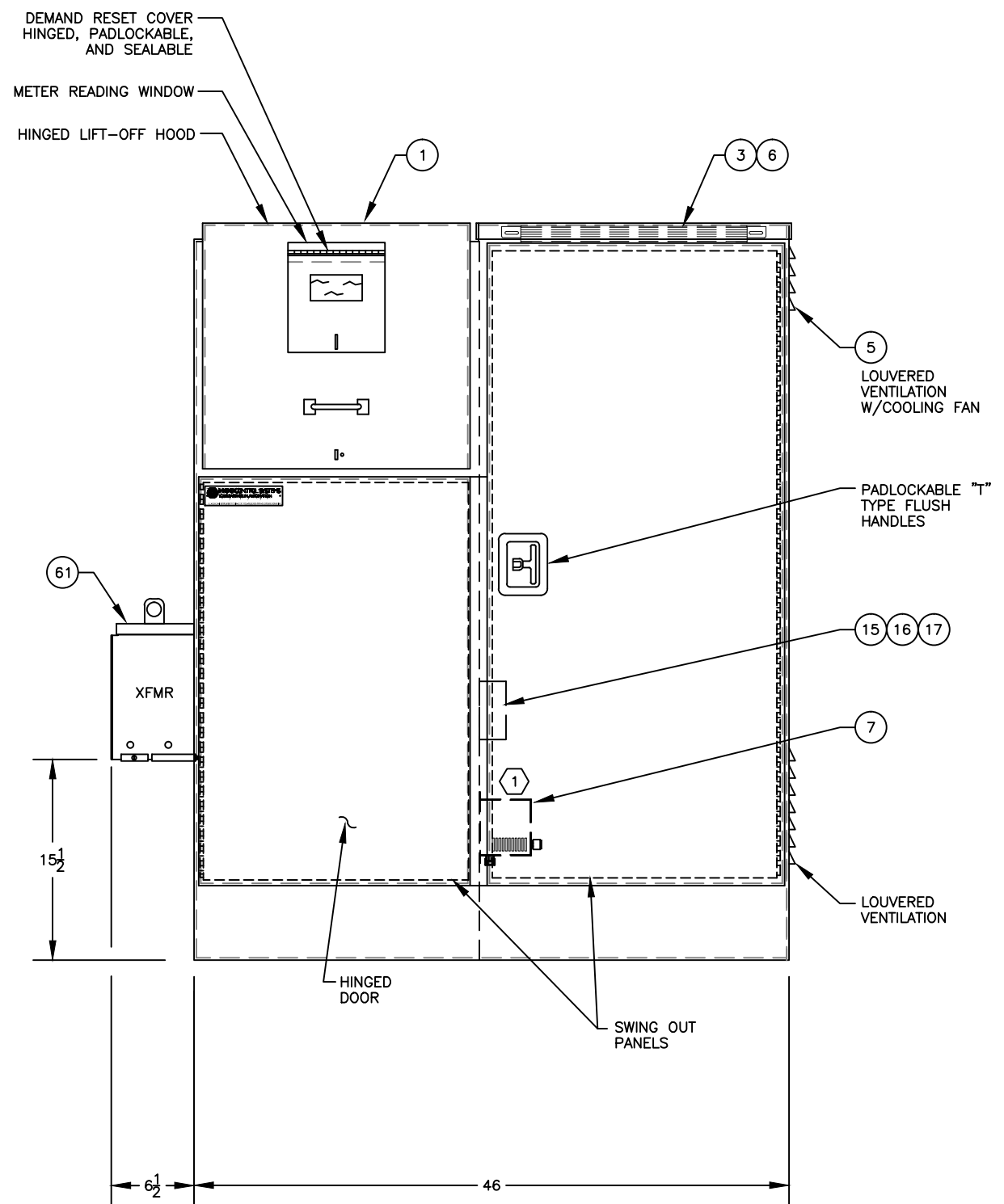
CHECKED BY: DV REF:

APPROVED BY: RP SHEET 1 OF 3

SIZE: B DRAWING: 7003628-A01

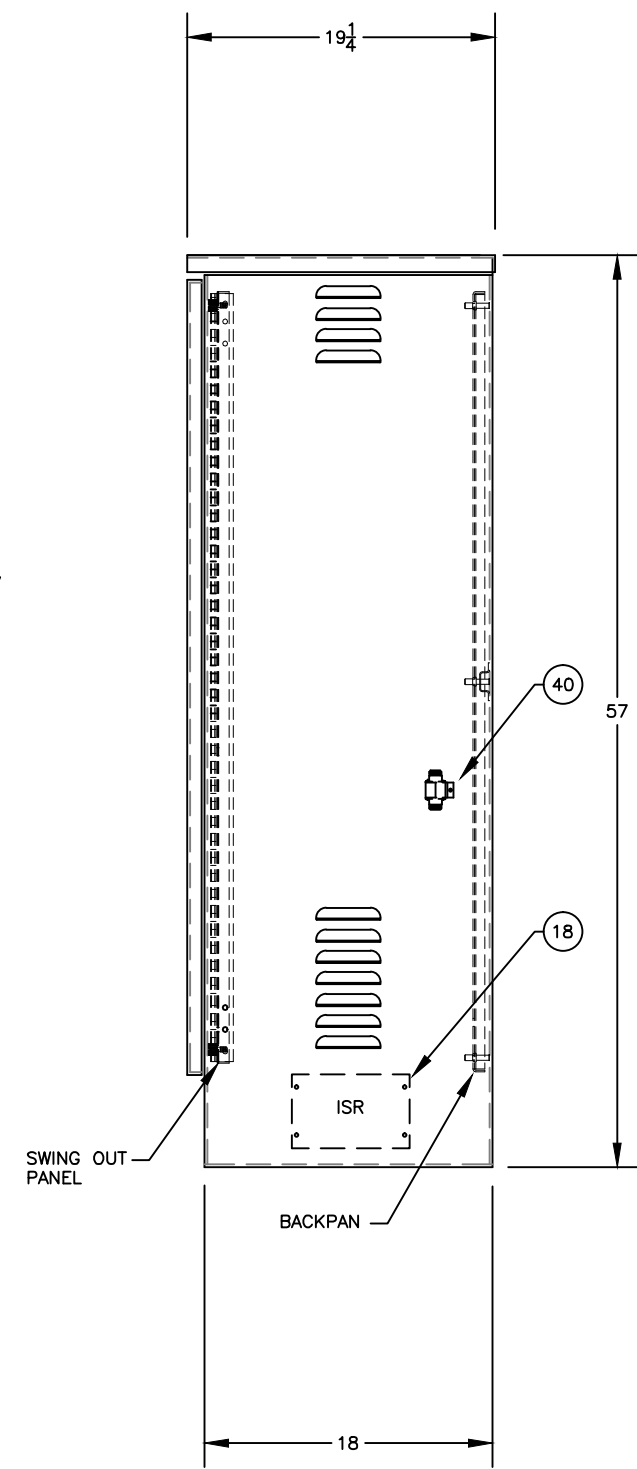


LEFT SIDE VIEW



FRONT ELEVATION VIEW
TYPE 3R PEDESTAL ENCLOSURE

① MINIMUM 4" CLEARANCE ABOVE, 2" CLEARANCE BELOW, & 2" CLEARANCE ON LEFT/RIGHT SIDE



RIGHT SIDE VIEW

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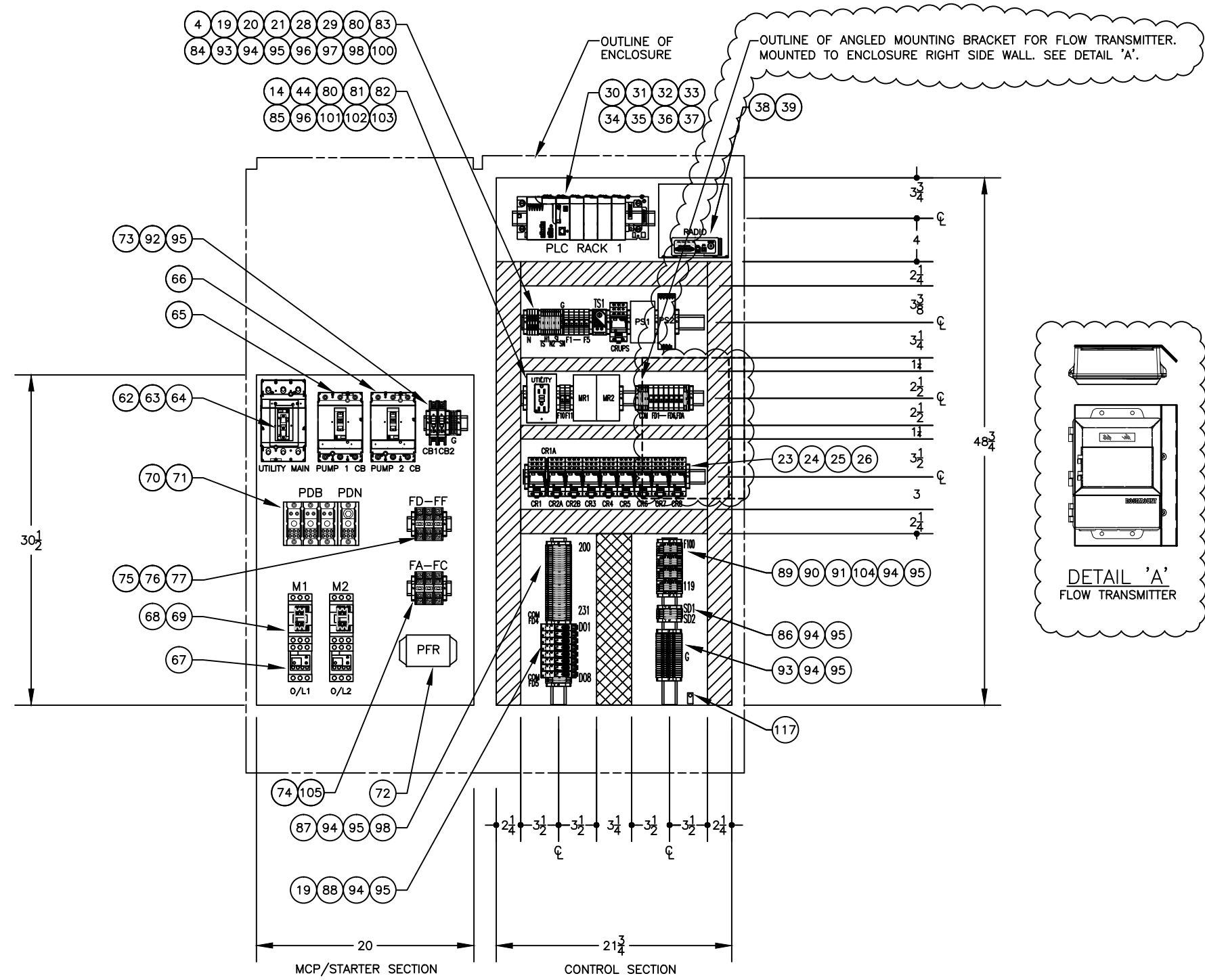
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CHECKED BY: DV REF:

APPROVED BY: RP SHEET: 3 OF 3

SIZE: **B** DRAWING: 7003628-A01



MTG PAN LAYOUT

NAMEPLATE SCHEDULE							
ITEM	DESCRIPTION	QTY	LTR SIZE	N/P SIZE	TAG NAME	INSCRIPTION	NOTES
1	NAMEPLATE	1	1/4	1 X 6	N/A	OPERATOR INTERFACE	A,B,C,H
2	NAMEPLATE	1	3/16	1 X 3	N/A	PUMP 1 CONTROL	A,B,C,H
3	NAMEPLATE	1	3/16	1 X 3	N/A	PUMP 2 CONTROL	A,B,C,H
4	NAMEPLATE	2	3/16	.75 X 2.5	LT2, LT3	RUNNING	A,B,C,H
5	NAMEPLATE	2	3/16	.75 X 2.5	SW3 SW4	HAND OFF AUTO	A,B,C,H
6	NAMEPLATE	2	3/16	.75 X 2.5	ETM1, ETM2	RUN TIME	A,B,C,H
7	NAMEPLATE	1	3/16	.75 X 2.5	N/A	CONTROLS	A,B,C,H
8	NAMEPLATE	1	3/16	.75 X 2.5	N/A	UTILITY	A,B,C,H
9	NAMEPLATE	1	3/16	.75 X 2.5	SW2	LOW LEVEL LOCKOUT NORMAL OVERRIDE	A,B,C,H
10	NAMEPLATE	1	3/16	.75 X 2.5	SW1	PANEL LIGHT OFF ON	A,B,C,H
11	NAMEPLATE	1	3/16	.75 X 2.5	N/A	UTILITY MAIN	A,B,C,H
12	NAMEPLATE	1	1/4 3/16 3/16 3/16	2 X 6	N/A	- CAUTION - FOREIGN VOLTAGE SOURCES PRESENT MULTIPLE DISCONNECT SWITCHES REQUIRED TO DE-ENERGIZE	A,B,D,H

NAMEPLATE NOTES	
NOTE	DESCRIPTION
A	LAYOUT ALL INSCRIPTION ENGRAVING AS SHOWN.
B	CENTER ENGRAVING HORIZONTALLY AND VERTICALLY.
C	NAMEPLATE MATERIAL: PHENOLIC, BLACK WITH WHITE CORE.
D	NAMEPLATE MATERIAL: PHENOLIC, RED WITH WHITE CORE.
E	NAMEPLATE MATERIAL: PHENOLIC, WHITE WITH BLACK CORE.
F	NAMEPLATE MATERIAL: PHENOLIC, GRAY WITH BLACK CORE.
G	NAMEPLATE MATERIAL: PHENOLIC, YELLOW WITH BLACK CORE.
H	NAMEPLATE TO BE ATTACHED WITH ADHESIVE STRIPS.
J	NAMEPLATE TO BE ATTACHED WITH SILICONE ADHESIVE.
K	NAMEPLATE TO BE ATTACHED WITH STAINLESS STEEL SCREWS.
L	LEGEND PLATE BY MANUFACTURER, PROVIDED BY MCC-CS.
M	LEGEND PLATE TO BE ATTACHED WITH OPERATOR BEZEL.

INDUSTRIAL CONTROL PANEL

MCC CONTROL SYSTEMS
YOUR PARTNER IN AUTOMATION

859 COTTING COURT, SUITE G
VACAVILLE, CALIFORNIA 95688
707-449-0341 www.mccwater.com

PANEL NAME
STORM WATER LIFT STATION

ENCLOSURE
TYPE 3R

FACTORY SHOP
VACAVILLE

JOB NO.-DWGS
2846-B

SUPPLY POWER REQUIREMENTS VOLTAGE <u>480</u> PHASE <u>3</u> HERTZ <u>60</u> AMPERES <u>123</u> SHORT CIRCUIT CURRENT RATING <u>18 KA RMS SYMMETRICAL</u>	WIRING TERMINATIONS TERMINAL - TORQUE FUSE BLOCK 8MM <u>14 IN-LBS</u> FEED-THRU 8MM <u>14 IN-LBS</u> FEED-THRU 6MM <u>9 IN-LBS</u> FEED-THRU 5MM <u>7 IN-LBS</u> DISCONNECT 5MM <u>7 IN-LBS</u> GND BLOCK 8MM <u>14 IN-LBS</u> GND BLOCK 6MM <u>9 IN-LBS</u> GND BLOCK 5MM <u>7 IN-LBS</u>
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CLASS 1 POWER CIRCUITS USE COPPER CONDUCTORS ONLY WITH MINIMUM 60°C TEMP RATING. CLASS 2 POWER CIRCUITS USE COPPER CONDUCTORS ONLY

FUSE CHART

NO./RANGE	AMP	VOLTS
FA - FC	1	480VAC
FD - FE	15	480VAC
FF	30	120VAC
F1 - F5	2A	120VAC
F10 - F11	1A	120VAC
FD1 - FD6	2A	24VDC
FDA	3A	24VDC
F100 - F116	1/8A	24VDC

CAUTION: TO REDUCE THE RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE & RATING OF FUSE

CAUTION

DE-ENERGIZE THIS CONTROL PANEL BEFORE PERFORMING ANY REPAIRS

FOR QUESTIONS REGARDING THE PROPER REPAIR OR REPLACEMENT OF COMPONENTS IN THIS CONTROL PANEL ASSEMBLY CONTACT M.C.C. AND PROVIDE THE (JOB NO.-DWGS) INFORMATION AS LISTED ABOVE

PRINT PANEL LABEL FULL SIZE AND AFFIX TO INSIDE OF ENCLOSURE.

PRIMEX
WATER SYSTEM INTEGRATOR
AND CONTROLS PROVIDER

859 COTTING COURT, SUITE G
VACAVILLE, CA 95688 707-449-0341
WWW.PRIMEXCONTROLS.COM

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APPROVED BY	RP	SHEET	1 OF 1


SIZE: **B** DRAWING: 7003628-A02

BILL OF MATERIALS					
ITEM	DESCRIPTION	TAG NO.	MANUFACTURER	PART NO.	QTY
1	ENCLOSURE, TYPE 3R, PEDESTAL W/SWING OUT DOORS	STORM WATER LIFT STATION	MYERS	MEU6D-M200TB-GRN	1
2	OPERATOR INTERFACE	OIT	MAPLE SYSTEMS	OIT3185	1
3	ENCLOSURE WORKLIGHT FLUORESCENT	LT	HOFFMAN	LF120V18	1
4	FAN THERMOSTAT SWITCH	TS1	HOFFMAN	ATEMNO	1
5	ENCLOSURE COOLING FAN W/BRACKET, 4-INCH		HOFFMAN	A4AXFN	1
6	FLUORESCENT BLULB		GRAINGER	F15T8/CW	1
7	ENCLOSURE HEATER, 100W, 120VAC, W/ TS	HTR	HOFFMAN	DAH1001A	1
8	2-POSITION SELECTOR SWITCH, MAINTAINED	SW1	ALLEN BRADLEY	800H-HR2A	1
9	2-POSITION SELECTOR SWITCH, SPRING RETURN	SW2	ALLEN BRADLEY	800H-HR5A	1
10	3-POSITION SELECTOR SWITCH, MAINTAINED	SW3, SW4	ALLEN BRADLEY	800H-JR2B	2
11	CONTACT BLOCK, 1 N.C.	SW3, SW4	ALLEN BRADLEY	800T-XD2	2
12	GREEN PILOT LIGHT	LT2, LT3	ALLEN BRADLEY	800H-QR10G	2
13	ETM, 120VAC, NON-RESET, ROUND	ETM1, ETM2	REDINGTON	3400-1000	2
14	RECEPTACLE, DUPLEX, NEMA 5-15R	UTILITY1	WEIDMULLER	6720005421	1
15	SINGLE RECEPTACLE, 2P, 3W, 15A-125V, WHITE	UPS RECEPTACLE	LEVITON	5015-W	1
16	SINGLE RECEPTACLE FACE PLATE, WHITE	UPS RECEPTACLE	< VARIES >	< VARIES >	1
17	RECEPTACLE DEVICE BOX, 1 1/2"		< VARIES >	< VARIES >	1
18	INTRINSICALLY SAFE RELAY	ISR	WARRICK	67C1A0A	1
19	DIGITAL OUTPUT INTERPOSING RELAY, 1P, 24VDC, LED, DIODE	DO1-DO8	FINDER	4C.01.9.024.0050.SPA	8
20	POWER RELAY, 120VAC, 3-POLE, LED, 16A	CR-UPS	FINDER	62.33.8.120.0040	1
21	POWER RELAY SOCKET	CR-UPS	FINDER	92.03	1
22	LED INDICATOR FOR SERIES 62	CR-UPS	FINDER	99.02.0.230.59	1
23	POWER RELAY, 120VAC, 3-POLE, LED, 16A	CR1-CR8	FINDER	62.33.8.120.0040	9
24	POWER RELAY SOCKET	CR1-CR8	FINDER	92.03	9
25	LED INDICATOR FOR SERIES 62	CR1-CR8	FINDER	99.02.0.230.59	9
26	CONTROL RELAY, 1-POLE	CR1A	FINDER	38.51.0.125.0060	1
27	UNINTERRUPTIBLE POWER SUPPLY, 750VA	UPS	APC	SMT750	1
28	12VDC POWER SUPPLY, 3A, 55W	PS1	WEIDMULLER	9927480012	1
29	24VDC POWER SUPPLY, 5A, 120W	PS2	WEIDMULLER	8951340000	1
30	M340 6-SLOT RACK	RACK 1	MODICON	BMXXBP0600	1
31	M340 PLC POWER SUPPLY	PS1	MODICON	BMXCPS2010	1
32	M340 PROCESSOR	PROCESSOR	MODICON	BMXP341000	1
33	M340 4 CHANNEL ANALOG INPUT MODULE	AI1	MODICON	BMXAMIO410	1
34	M340 CONNECTOR CABLE FOR ANALOG INPUT MODULE		MODICON	BMXFTW301S	1
35	M340 16 POINT DISCRETE IN/OUT PUT MODULE	DI1, DO1	MODICON	BMXDDM3202K	1
36	M340 CONNECTOR CABLE FOR DISCRETE IN/OUT PUT MODULE		MODICON	BMXFCW303	1
37	M340 SERIAL COMMUNICATION MODULE		MODICON	BMXNOM0200	1
38	RADIO	RADIO	MDS	SD4CSS	1
39	RADIO SHELF		MCC-CS	CUSTOM	1
40	LIGHTNING ARRESTOR		POLYPHASER	IS-50NX-C0	1
41	3/8" COAXIAL CABLE W/ONE END		TALLEY	TIMA40X-50	1
42	3/8" MALE END		TALLEY	EZ400NMH	2
43	ANTENNA CABLE		TALLEY	CXTA58G-3	1
44	MONITORING RELAY, MINICAS 120, 120VAC	MR1-MR2	FLYGT	14-407129	2
45	PATCH CABLE	E1	L-COM	TRD815BLK-3	1
46	PATCH CABLE	E2	L-COM	CUSTOM	1
47	SERIAL CONVERTER, DB-9 TO RJ45		L-COM	RA098M	1
48					
49					
50					
51					
52					
53					
54					
55	SONTEK-IQ FLOW DISPLAY		XYLEM	SON-FD-ANA	1
56	FLOW TRANSMITTER		ROSEMOUNT	MODEL 8712E	1
57					
58					
59					
60					

BILL OF MATERIALS					
ITEM	DESCRIPTION	TAG NO.	MANUFACTURER	PART NO.	QTY
61	TRANSFORMER, 3KVA, 480/120VAC	XFMR	SQUARE D	7400-3S1F	1
62	MAIN CIRCUIT BREAKER, 200A, 3P	UTILITY MAIN	SQUARE D	JDL36200	1
63	CIRCUIT BREAKER HANDLE PADLOCK ATTACHMENT		SQUARE D	S29371	1
64					
65	CIRCUIT BREAKER 600VA/250VDC, 90 AMPS	PUMP 1 CB	SQUARE D	HDL36090	1
66	CIRCUIT BREAKER 600VA/250VDC, 90 AMPS	PUMP 2 CB	SQUARE D	HDL36090	1
67	OVERLOAD RELAY	O/L-1, O/L-2	SQUARE D	LRD365	2
68	CONTACTOR	M1, M2	SQUARE D	LC1D65A	2
69	CONTACTOR AUX CONTACT	M1, M2	SQUARE D	LADN20	2
70	POWER DISTRIBUTION BLOCK, 1P	PDN	SQUARE D	9080LBA162104	1
71	POWER DISTRIBUTION BLOCK, 3P	PDB	SQUARE D	9080LBA362106	1
72	PHASE FAILURE RELAY	PFR	SYNCOM	MS250-A	1
73	CIRCUIT BREAKER, 1-POLE, 15A	CB1, CB2	SQUARE D	QOU115	2
74	3-POLE FUSE HOLDER	FA-FC	BUSSMAN	BM6033PQ	1
75	3-POLE FUSE HOLDER	FD-FF	BUSSMAN	BM6033PQ	1
76	PRIMARY FUSE, 600VAC, 15A	FD-FE	BUSSMAN	FNQ-R-15	2
77	SECONDARY FUSE, 600VAC, 30A	FF	BUSSMAN	FNM-30	1
78					
79					
80	TERMINAL BLOCK, FUSED, 120VAC, 1/4 X 1-1/4	F1-F5, F10,F11	WEIDMULLER	1014300000	7
81	TERMINAL BLOCK, FUSED, 24VDC, 1/4 X 1-1/4	FD1 - FD6	WEIDMULLER	1014100000	6
82	TERMINAL BLOCK, FUSED, 12VDC, 1/4 X 1-1/4	FDA	WEIDMULLER	1014100000	1
83	TERMINAL BLOCK, INCOMING POWER	N	WEIDMULLER	1020100000	4
84	TERMINAL BLOCK, 120VAC POWER DISTRIBUTION	N,TS,H1,N2,SL,SN	WEIDMULLER	1020000000	8
85	TERMINAL BLOCK, 24VDC POWER DISTRIBUTION	COM, 12ND	WEIDMULLER	1020000000	4
86	TERMINAL BLOCK, 24VDC FIELD	SR1,SR2	WEIDMULLER	1020000000	4
87	TERMINAL BLOCK, PLC DIGITAL INPUTS	200-231,FD4,COM	WEIDMULLER	1020000000	34
88	TERMINAL BLOCK, PLC DIGITAL OUTPUTS	FD5, COM	WEIDMULLER	1020000000	2
89	TERMINAL BLOCK, PLC ANALOG INPUTS	101-118	WEIDMULLER	1020000000	12
90	GROUND TERMINAL BLOCK, ANALOG INPUTS	104-119	WEIDMULLER	1010000000	4
91	ANALOG TERMINAL BLOCK, FUSED, 24VDC, 5 X 20 MM	FD100-FD116	WEIDMULLER	1011300000	4
92	GROUND TERMINAL BLOCK, INCOMING POWER	G	WEIDMULLER	1010100000	3
93	GROUND TERMINAL BLOCK, POWER DISTRIBUTION	G	WEIDMULLER	1010000000	20
94	TERMINAL BLOCK END COVER		WEIDMULLER	1050000000	12
95	MOUNTING RAIL CLAMP		WEIDMULLER	1061200000	31
96	TERMINAL BLOCK JUMPER, BLACK, 3-POLE	COM, N2, H1	WEIDMULLER	1718090000	3
97	TERMINAL BLOCK JUMPER, BLACK, 4-POLE	N	WEIDMULLER	1718100000	1
98	TERMINAL BLOCK JUMPER, BLACK, 8-POLE	201 - 231	WEIDMULLER	1718140000	2
99	TERMINAL BLOCK MARKER		WEIDMULLER	CUSTOM	2 EA
100	FUSE, 1/4 X 1-1/4, GLASS, SLOW-BLOW, 2A	F1- F5	LITTELFUSE	313002.	5
101	FUSE, 1/4 X 1-1/4, GLASS, SLOW-BLOW, 1A	F10, F11	LITTELFUSE	313001.	2
102	FUSE, 1/4 X 1-1/4, CERAMIC, FAST-ACTING, 3A	FDA	LITTELFUSE	314003.	1
103	FUSE, 1/4 X 1-1/4, CERAMIC, FAST-ACTING, 2A	FD1-FD6	LITTELFUSE	314002.	6
104	FUSE, 5 X 20 MM, GLASS, FAST-ACTING, 1/8A	FD100-FD104	LITTELFUSE	235.125	4
105	600VAC FUSE, 1A	FA-FC	BUSSMAN	FNQ-R-1	3
106	WIREWAY WITH COVER, WHITE, 1 X 4		< VARIES >	< VARIES >	1.5 FT.
107	WIREWAY WITH COVER, WHITE, 2 X 4		< VARIES >	< VARIES >	10 FT.
108	WIREWAY WITH COVER, WHITE, 3 X 4		< VARIES >	< VARIES >	1.5 FT.
109	WIREWAY WITH COVER, WHITE, 4 X 4		< VARIES >	< VARIES >	0
110	MOUNTING RAIL, STANDARD 35 MM		< VARIES >	< VARIES >	5.5 FT.
111	WIRE, MTW, 4 AWG, BLK		< VARIES >	< VARIES >	LOT
112	WIRE, MTW, 10 AWG, BLK		< VARIES >	< VARIES >	LOT
113	WIRE, MTW, 12 AWG, BLK, WHT, GRN		< VARIES >	< VARIES >	LOT
114	WIRE, MTW, 14 AWG, BLK, WHT, GRN, YEL		< VARIES >	< VARIES >	LOT
115	WIRE, MTW, 14 AWG, BLU		< VARIES >	< VARIES >	LOT
116	WIRE, MTW, 16 AWG, BLU		< VARIES >	< VARIES >	LOT
117	ENCLOSURE GROUNDING LUG		BURNDY	KA2U	1
118	NAMEPLATES		MCC-CS	2846-B02	LOT
119					
120					

PRIMEX
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AND CONTROLS PROVIDER
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VACAVILLE, CA 95688 707-449-0341
WWW.PRIMEXCONTROLS.COM

DIMENSIONS

UNLESS OTHERWISE SPECIFIED
INCHES
AND TOLERANCES FOR
1 PLACE DIMS ± 0.1
2 PLACE DIMS ± 0.01
3 PLACE DIMS ± 0.002
ANGULAR DIMS ± 30'
FRACTION DIMS ± 1/16"
0"  1"
THIS LINE EQUALS ONE INCH
IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

REVISIONS

NO.	DATE	REVISION	BY	APP
1.0	8/13	SUBMITTAL	PC	RP
2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
SUPERCEDES
2846-B
REV 3.0

TESTING

TEST	DATE	BY

PROJECT: CENTERPOINT INTERMODAL
CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE: STORM WATER
LIFT STATION PANEL
BILL OF MATERIALS

CUSTOMER: CONCO WEST, INC

DESIGNED BY: RP DATE: 8/13

DRAWN BY: PC SCALE: N/A

CHECKED BY: DV REF:

APPROVED BY: RP SHEET 1 OF 1

SIZE: **B** DRAWING: 7003628-A03

DIMENSIONS

UNLESS OTHERWISE SPECIFIED
 INCHES
 AND TOLERANCES FOR
 1 PLACE DIMS ± 0.1
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 ANGULAR DIMS ± 30'
 FRACTION DIMS ± 1/32"

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1.0	8/13	SUBMITTAL	PC	RP
2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
 SUPERCEDES
 2846-B
 REV 3.0

TESTING

TEST	DATE	BY

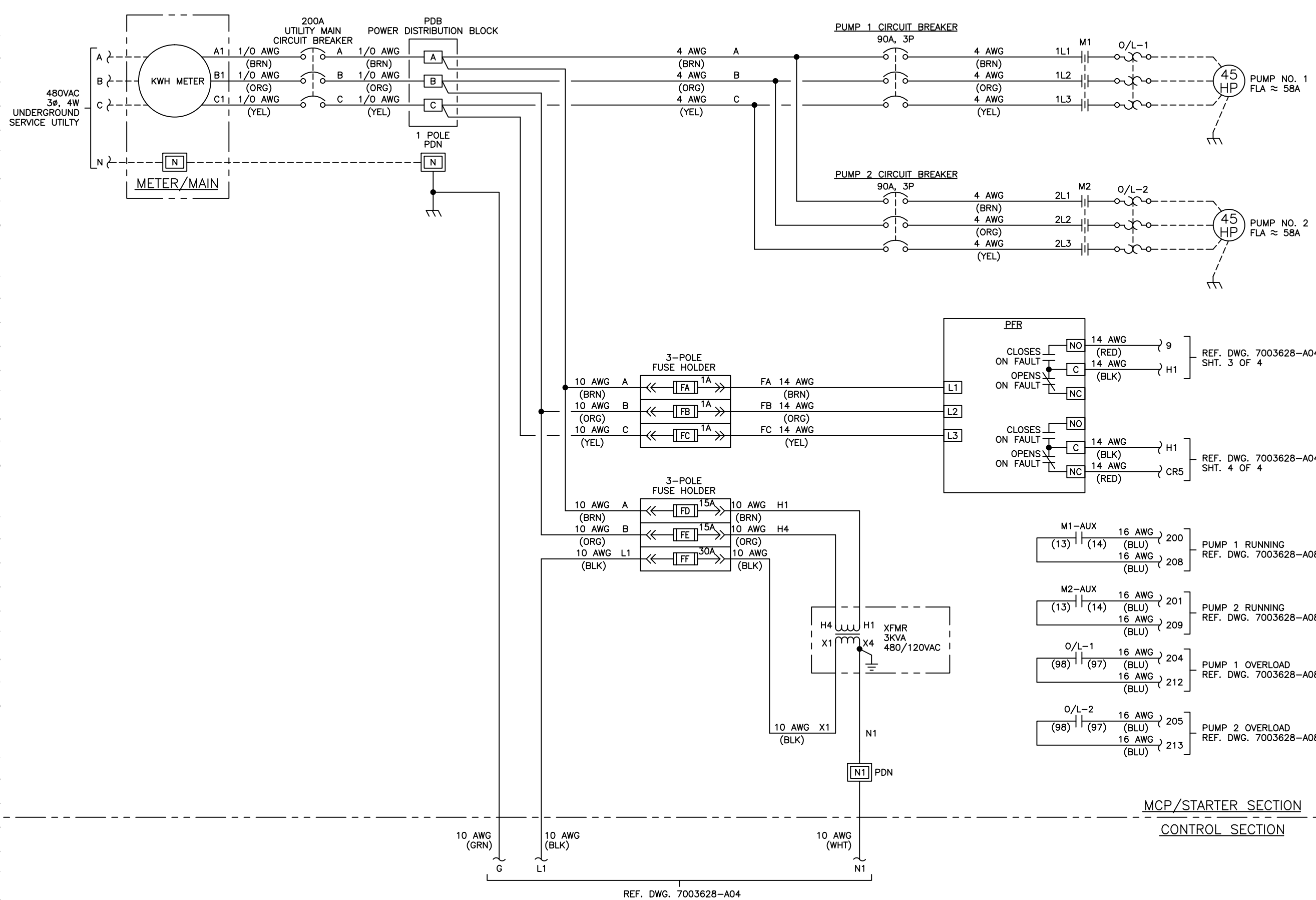
PROJECT: CENTERPOINT INTERMODAL
 CENTER PHASE 1
 ON SITE IMPROVEMENTS

TITLE: STORM WATER
 LIFT STATION PANEL
 POWER DISTRIBUTION
 SCHEMATIC

CUSTOMER: CONCO WEST, INC

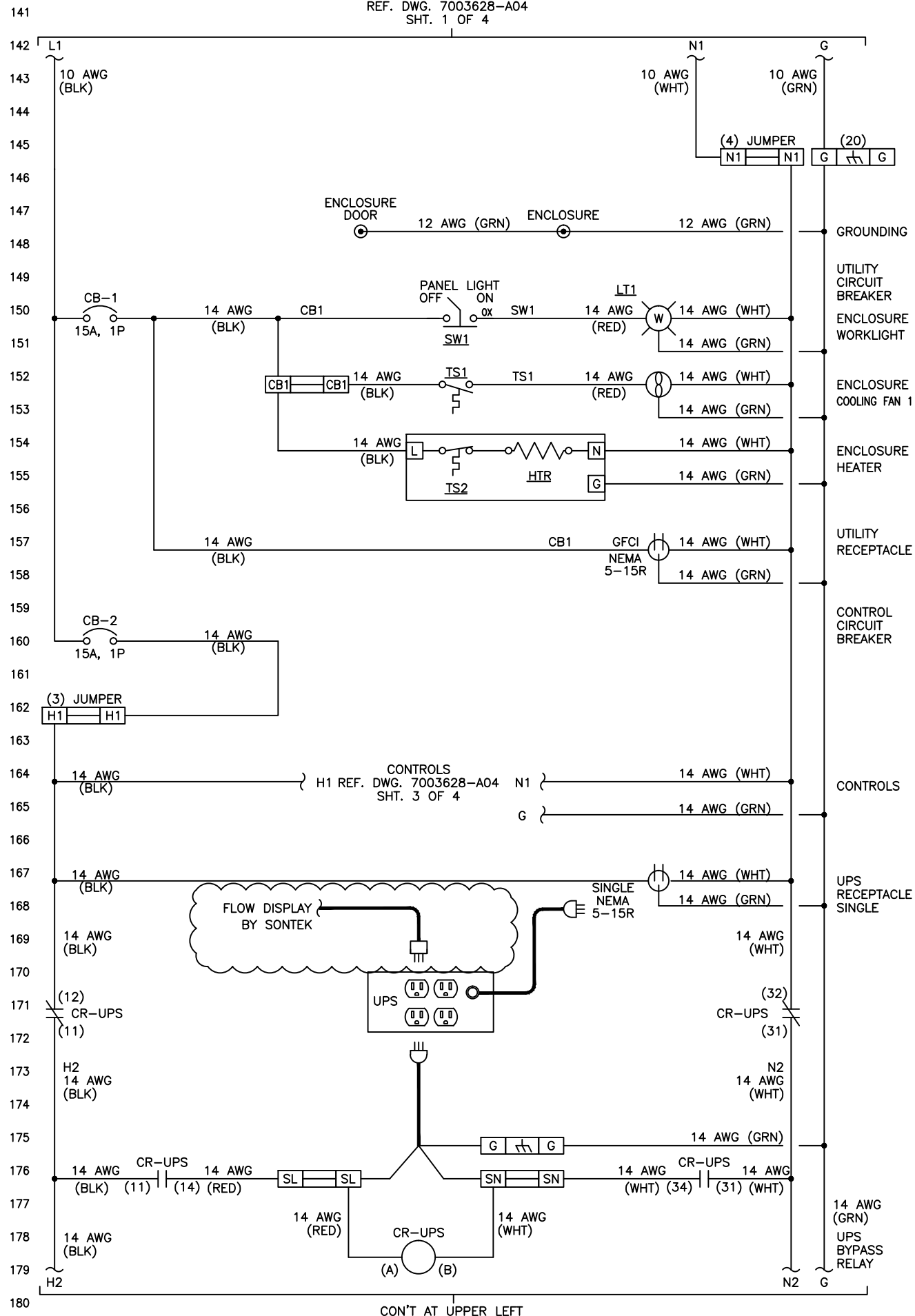
DESIGNED BY	RP	DATE:	8/13
DRAWN BY	PC	SCALE:	N/A
CHECKED BY	DV	REF:	
APPROVED BY	RP	SHEET	1 OF 4

SIZE: **B** DRAWING: 7003628-A04



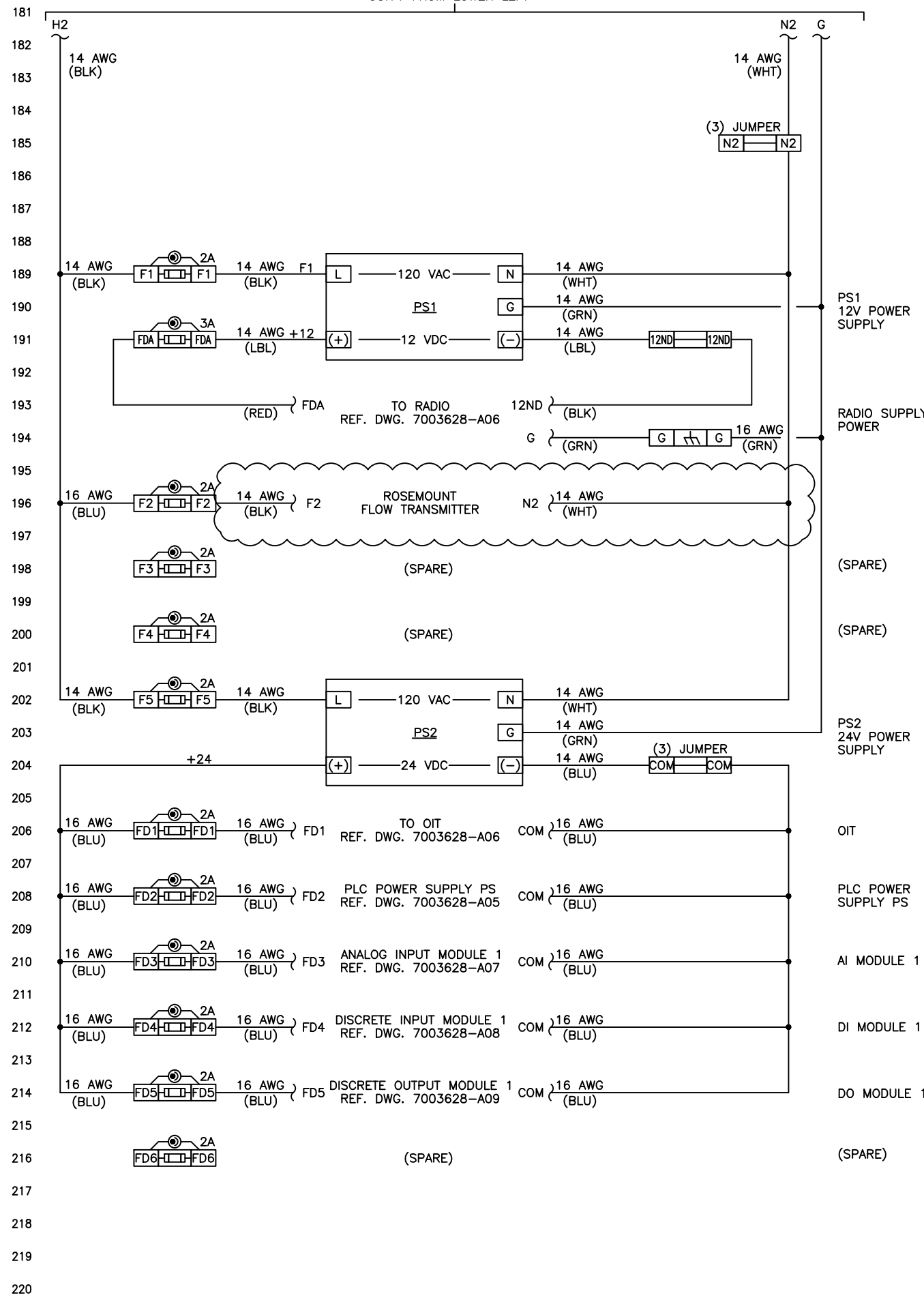
REF. DWG. 7003628-A04
 SHT. 2 OF 4

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CON'T AT UPPER LEFT

CON'T FROM LOWER LEFT



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AND CONTROLS PROVIDER

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VACAVILLE, CA 95688 707-449-0341
WWW.PRIMEXCONTROLS.COM

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2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
SUPERCEDES
2846-B
REV 3.0

TESTING

TEST	DATE	BY

PROJECT: CENTERPOINT INTERMODAL
CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE: STORM WATER
LIFT STATION PANEL
POWER DISTRIBUTION
SCHEMATIC

CUSTOMER: CONCO WEST, INC

DESIGNED BY	RP	DATE:	8/13
DRAWN BY	PC	SCALE:	N/A
CHECKED BY	DV	REF:	
APPROVED BY	RP	SHEET	2 OF 4

SIZE: **B** DRAWING: 7003628-A04

DIMENSIONS

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 INCHES
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4.1	9/25/17	FIELD MOD 1	LR	LT

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 2846-B
 REV 3.0

TESTING

TEST	DATE	BY

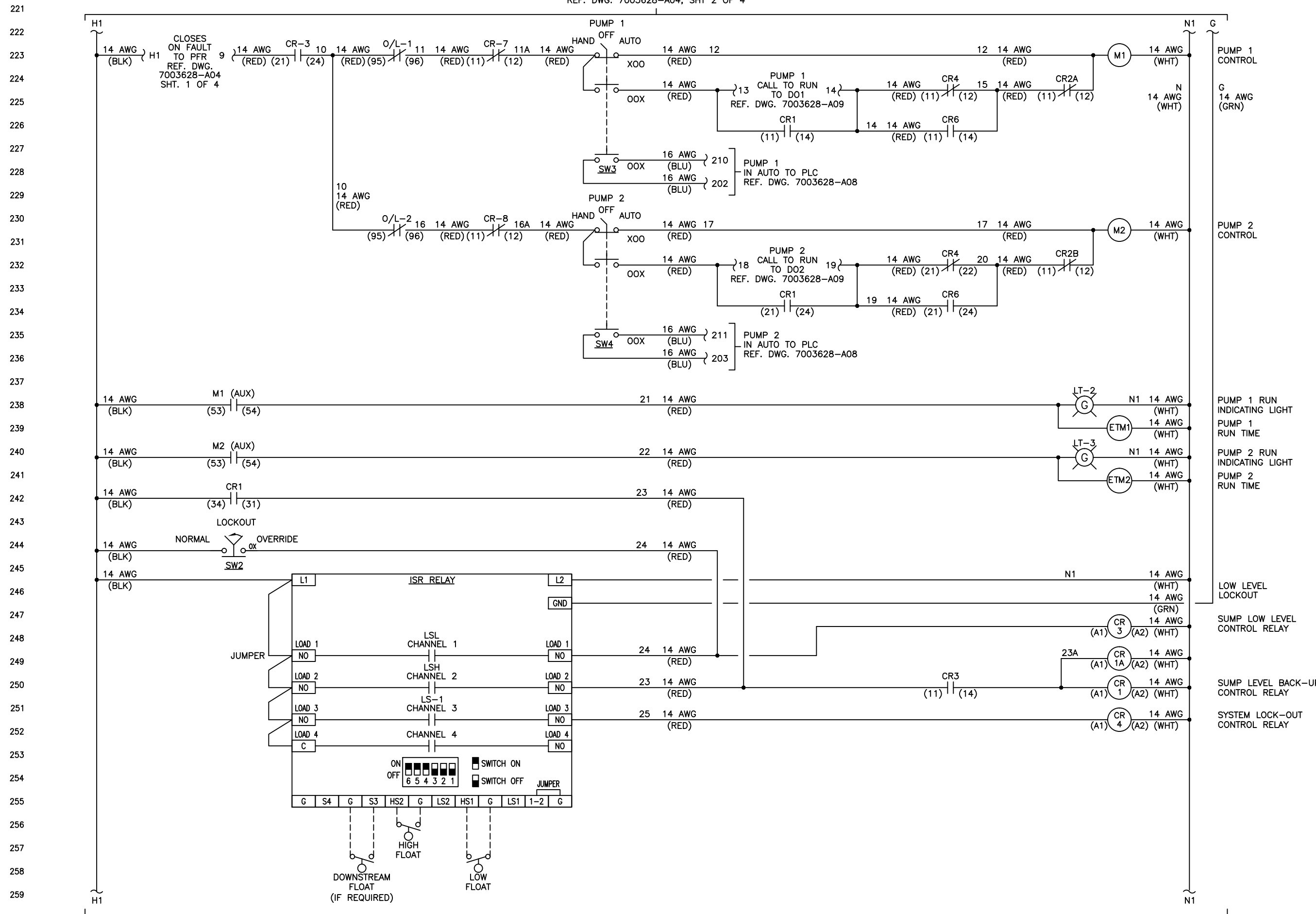
PROJECT: CENTERPOINT INTERMODAL
 CENTER PHASE 1
 ON SITE IMPROVEMENTS

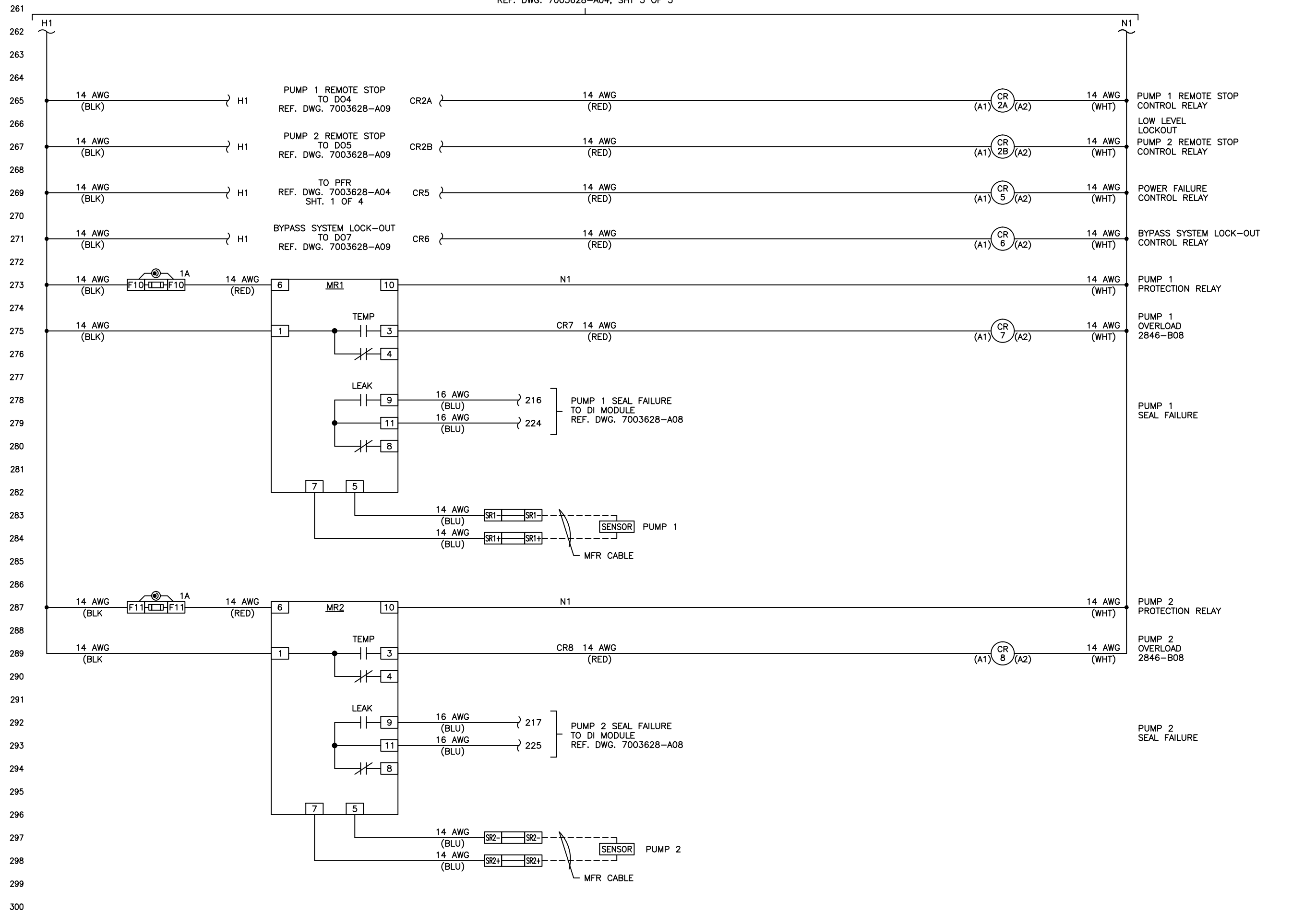
TITLE: STORM WATER
 LIFT STATION PANEL
 POWER DISTRIBUTION
 SCHEMATIC

CUSTOMER: CONCO WEST, INC

DESIGNED BY	RP	DATE:	8/13
DRAWN BY	PC	SCALE:	N/A
CHECKED BY	DV	REF:	
APPROVED BY	RP	SHEET	3 OF 4

SIZE: **B** DRAWING: 7003628-A04





DIMENSIONS

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 FRACTION DIMS ± 1/32"

0" 1"
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2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
 SUPERCEDES
 2846-B
 REV 3.0

TESTING

TEST	DATE	BY

PROJECT: CENTERPOINT INTERMODAL
 CENTER PHASE 1
 ON SITE IMPROVEMENTS


TITLE: STORM WATER
 LIFT STATION PANEL
 POWER DISTRIBUTION
 SCHEMATIC

CUSTOMER: CONCO WEST, INC

DESIGNED BY	RP	DATE:	8/13
DRAWN BY	PC	SCALE:	N/A
CHECKED BY	DV	REF:	
APPROVED BY	RP	SHEET	4 OF 4

DIMENSIONS

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2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
SUPERCEDES
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REV 3.0

TESTING

TEST	DATE	BY

PROJECT CENTERPOINT INTERMODAL
CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE STORM WATER
LIFT STATION PANEL
PLC CHASSIS DIAGRAM

CUSTOMER CONCO WEST, INC

DESIGNED BY RP DATE: 8/13

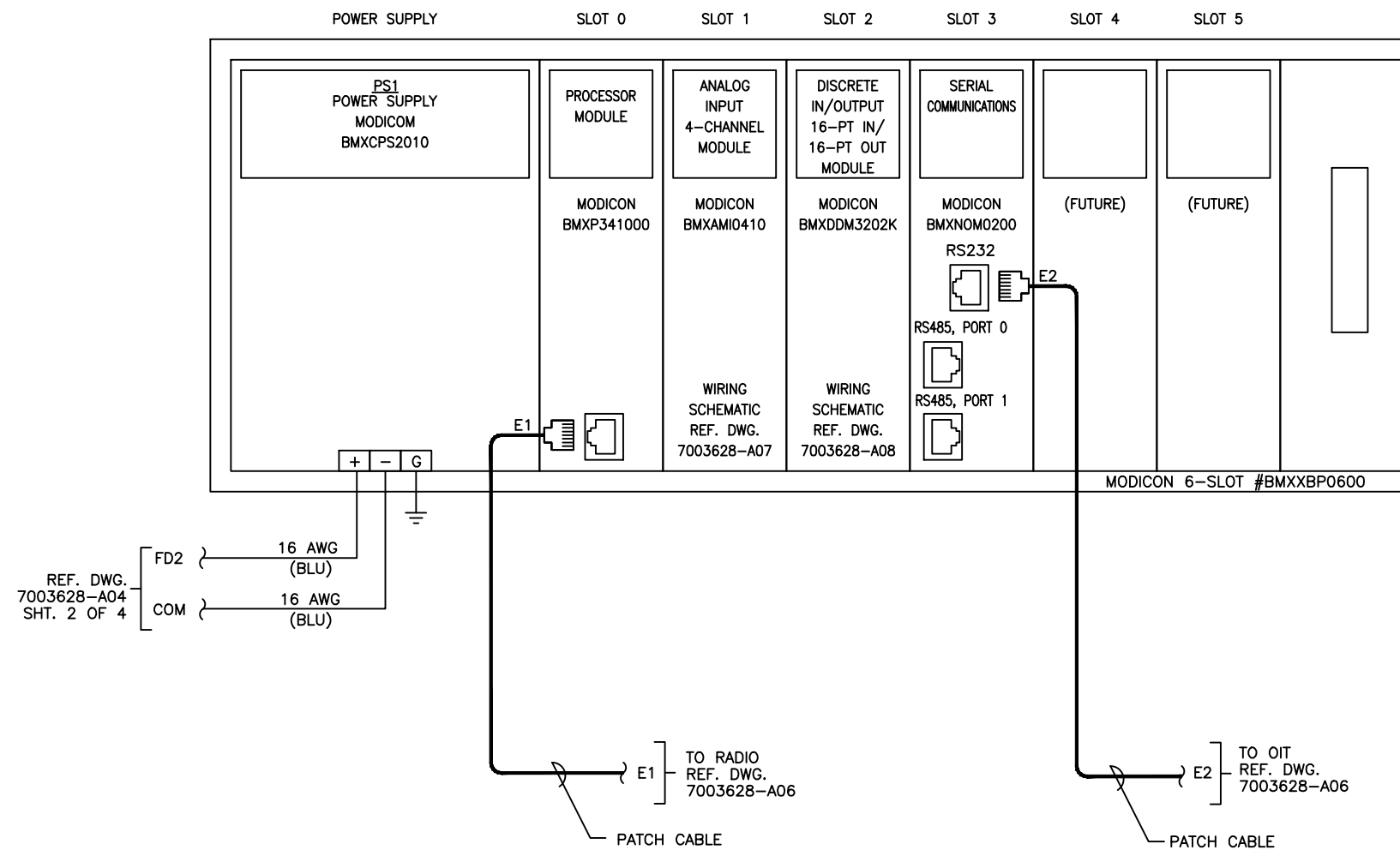
DRAWN BY PC SCALE: N/A

CHECKED BY DV REF:

APPROVED BY RP SHEET 1 OF 1

SIZE **B** DRAWING: 7003628-A05

RACK 1 DIAGRAM



DIMENSIONS

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REVISIONS

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2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
SUPERCEDES
2846-B
REV 3.0

TESTING

TEST	DATE	BY

PROJECT: CENTERPOINT INTERMODAL
CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE: STORM WATER
LIFT STATION PANEL
NETWORK DIAGRAM

CUSTOMER: CONCO WEST, INC

DESIGNED BY: RP DATE: 8/13

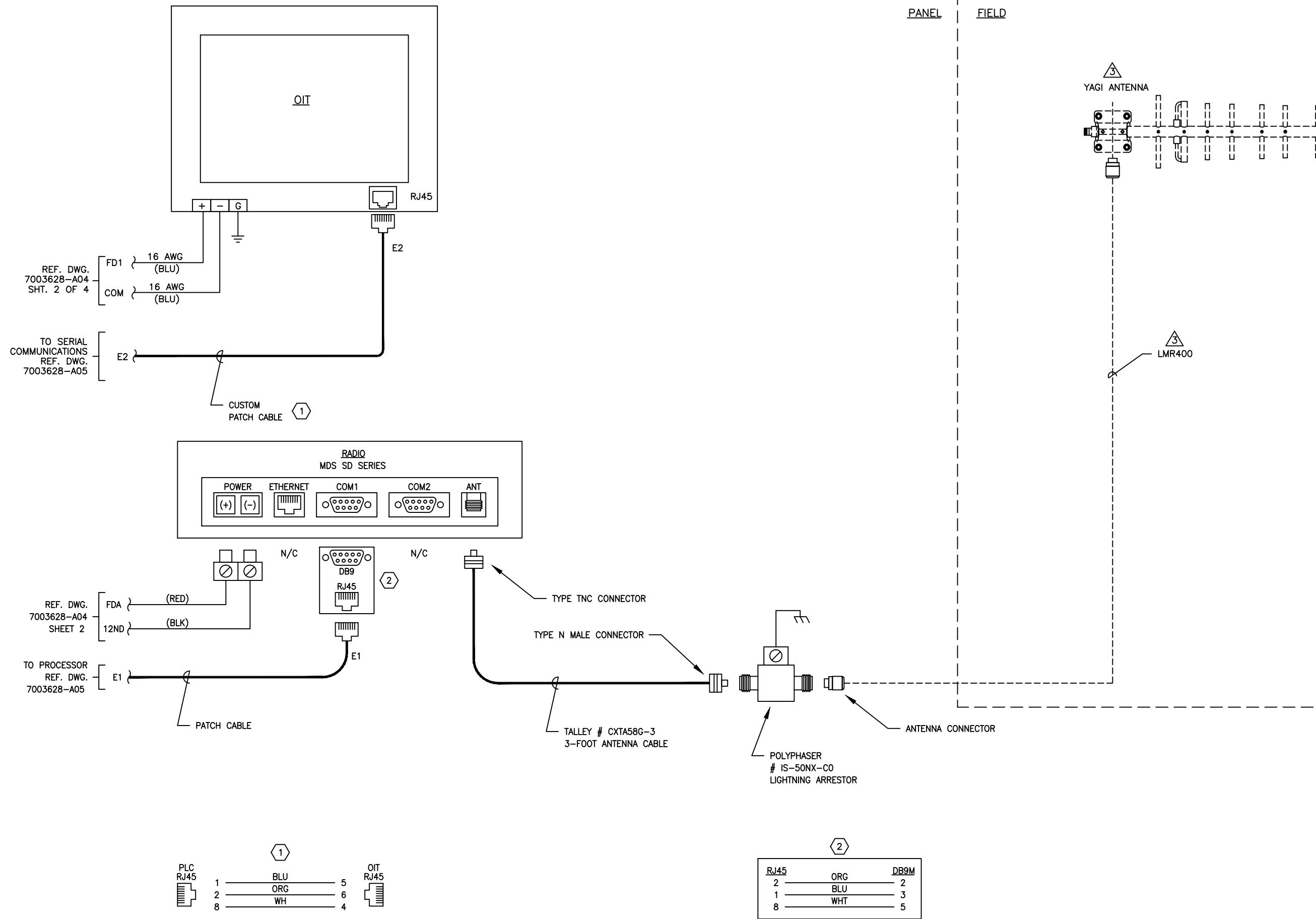
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CHECKED BY: DV REF:

APPROVED BY: RP SHEET 1 OF 1

SIZE: **B** DRAWING: 7003628-A06

PANEL FIELD



OIT TO PLC CONNECTION DIAGRAM

PLC TO RADIO CONNECTION DIAGRAM

DIMENSIONS

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INCHES
AND TOLERANCES FOR
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2.0	10/13	PRODUCTION	PC	RP
3.0	12/13	AS-BUILT	LR	RP
4.1	9/25/17	FIELD MOD 1	LR	LT

THIS DRAWING SET
SUPERCEDES
2846-B
REV 3.0

TESTING

TEST	DATE	BY

PROJECT: CENTERPOINT INTERMODAL
CENTER PHASE 1
ON SITE IMPROVEMENTS

TITLE: STORM WATER
LIFT STATION PANEL
ANALOG INPUT MODULE
SCHEMATIC 1

CUSTOMER: CONCO WEST, INC

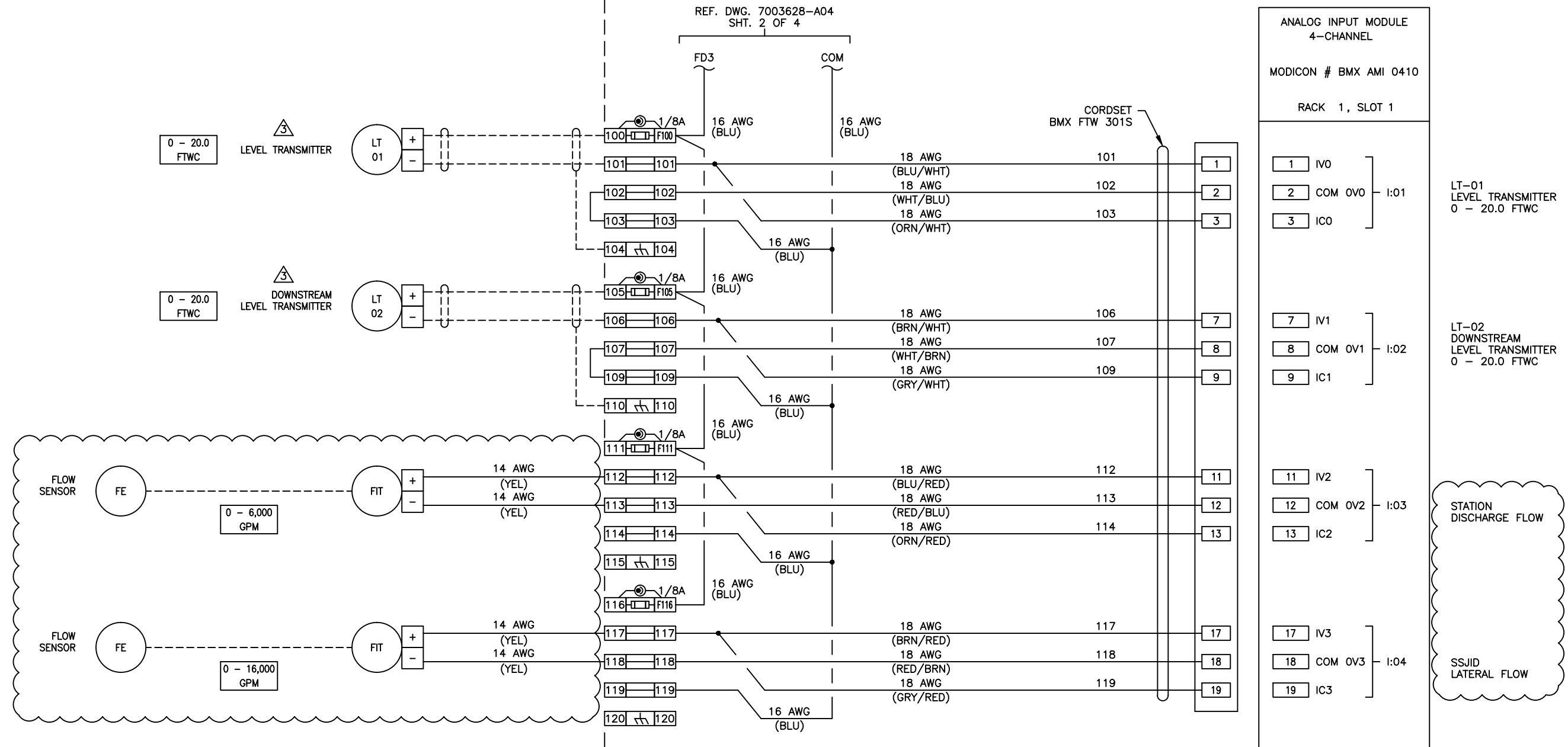
DESIGNED BY	RP	DATE:	8/13
DRAWN BY	PC	SCALE:	N/A
CHECKED BY	DV	REF:	
APPROVED BY	RP	SHEET	1 OF 1

SIZE: **B** DRAWING: 7003628-A07

FIELD

PANEL

REF. DWG. 7003628-A04
SHT. 2 OF 4



ANALOG INPUT MODULE
4-CHANNEL
MODICON # BMX AMI 0410
RACK 1, SLOT 1

1	IV0	1:01
2	COM OV0	
3	IC0	
7	IV1	1:02
8	COM OV1	
9	IC1	
11	IV2	1:03
12	COM OV2	
13	IC2	
17	IV3	1:04
18	COM OV3	
19	IC3	

STATION
DISCHARGE FLOW

SSJID
LATERAL FLOW

LT-01
LEVEL TRANSMITTER
0 - 20.0 FTWC

LT-02
DOWNSTREAM
LEVEL TRANSMITTER
0 - 20.0 FTWC

