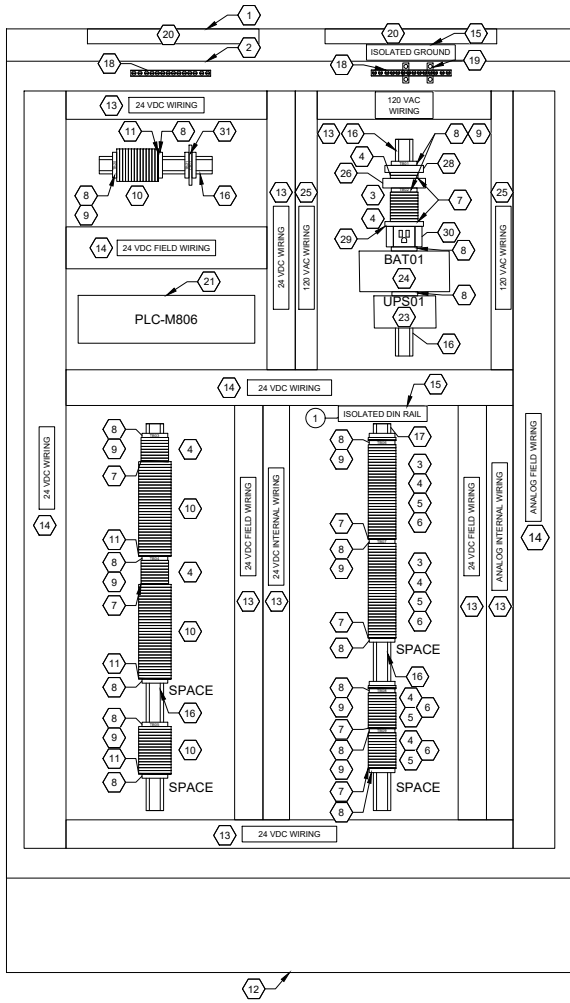


EXTERIOR PANEL VIEW



INTERIOR PANEL VIEW

GENERAL NOTES:

- ALL DIMENSIONS SHOWN ARE IN MILLIMETERS (mm)
- ALL POWER AND 120 VAC WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- ALL 24 VDC CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16AWG.
- ALL ANALOG WIRING TO BE 18 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V.
- COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
- TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. DOCUMENT ALL TEST RESULTS.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- PROVIDE WIRE BARREL FERRULES FOR WIRING WHERE POSSIBLE.
- ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
- ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
- ROUTE ALL 24VDC WIRING SEPARATE FROM 120VAC WIRING.
- JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.
- THE BILL OF MATERIALS MAY NOT INCLUDE ALL MISCELLANEOUS MATERIALS REQUIRED, IT IS INTENDED TO BE USED AS A GENERAL GUIDELINE ONLY, IT IS RESPONSIBILITY OF THE VENDOR TO PROVIDE ALL REQUIRED MATERIALS FOR COMPLETE AND OPERATING SYSTEM.

SPECIFIC NOTES:

- CONNECT ISOLATED DIN RAIL TO ISOLATED GROUND BAR

BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	TYPE 12 FLOOR-MOUNT ENCLOSURE - 1800x1200x600mm WITH LARGE DATA POCKET	HOFFMAN	PP18126
2	1	SUB-PANEL FOR ITEM 1	HOFFMAN	PPF1812
3	AS REQ'D	FUSED TERMINAL - UT 4 WITH FUSE PLUG-P-FU 5X20	PHOENIX CONTACT	3046142 3036806
4	AS REQ'D	FEED-THROUGH TERMINAL - UT 4-MTD	PHOENIX CONTACT	3046184
5	AS REQ'D	KNIFE DISCONNECT TERMINAL - UT 4-MT	PHOENIX CONTACT	3046139
6	AS REQ'D	POTENTIAL-EARTH TERMINAL - UT 4-MTD-PE/S	PHOENIX CONTACT	3046207
7	AS REQ'D	TERMINAL END PLATE - D-UT 2,5/4 TWIN	PHOENIX CONTACT	3047141
8	AS REQ'D	TERINAL END CLAMP - CLIPFIX 35	PHOENIX CONTACT	3022218
9	AS REQ'D	TERMINAL BLOCK MARKER - KLM-A	PHOENIX CONTACT	1004348
10	AS REQ'D	DOUBLE LEVEL FUSED TERMINAL - UTTB 4 WITH FUSE PLUG-P-FU 5X20	PHOENIX CONTACT	3044720 3036806
11	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE - D-UTTB 2,5/4	PHOENIX CONTACT	3047293
12	1	200mm PLINTH BASE FOR ITEM 1	HOFFMAN	PPB2166
13	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 2.25"x3.12"	PANDUIT	F2X3LG6
14	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 3.25"x3.12"	PANDUIT	F3X3LG6
15	AS REQ'D	LAMACOIDS	-	-
16	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
17	AS REQ'D	DIN RAIL INSULATED SUPPORT BRACKET	PHOENIX CONTACT	1201141
18	2	GROUND BAR, 14 TAPS	ILSCO	D167-14
19	2	GROUND BAR ISOLATION STAND OFF	PANDUIT	UGB-IN-SO
20	2	PANEL LIGHT AND DOOR SWITCH	HOFFMAN	LF120V/15 ALFSWD
21	1	M580 PLC RACK - AS PER DETAIL A	SCHNEIDER	-
22	1	HMI SCREEN	SCHNEIDER	HMIGTO6310
23	1	24VDC POWER SUPPLY/UPS, TRIO-UPS-2G/1AC/24DC/10	PHOENIX CONTACT	2907161
24	1	ENERGY STORAGE, UPS-BAT/VRLA/24DC/3.4AH	PHOENIX CONTACT	2320306
25	AS REQ'D	NARROW SLOT WIRING DUCT, 1.75"x3.12"	PANDUIT	F1.5X3LG6
26	1	SURGE ARRESTOR MODULE C/W BASE, 120V, PLT-SEC-T3-120-FM-UT	PHOENIX CONTACT	2907918
27	1	FOLDING SHELF, GREY	HOFFMAN	AASHLF1818
28	1	MINIATURE CIRCUIT BREAKER, 10 AMP, DIN RAIL MOUNTED, FAZ TYPE, 120 VAC	EATON	FAZ-B10/1-NA-L
29	1	MINIATURE CIRCUIT BREAKER, 5 AMP, DIN RAIL MOUNTED, FAZ TYPE, 120 VAC	EATON	FAZ-B5/1-NA-L
30	1	RECEPTACLE, 125V, 15A, DIN RAIL MOUNTED, SD-US/SC/LA/GY	PHOENIX CONTACT	2963860
31	1	PLC RELAY MODULE, 24VDC	PHOENIX CONTACT	2966171

\* THIS BILL OF MATERIALS MAY NOT INCLUDE ALL MISCELLANEOUS MATERIALS REQUIRED, AND IS INTENDED TO BE USED AS A GENERAL GUIDELINE ONLY. IT IS THE RESPONSIBILITY OF THE VENDOR / FABRICATOR TO PROVIDE ALL REQUIRED MATERIALS FOR A COMPLETE AND WORKING SYSTEM.

PLC-M806  
RACK: BME XBP 1200

PS	0	1	2	3	4	5	6	7	8	9	10	11
BMX CPS 3020												
	BME P-68 2040											
		BME NCO0301										
		BMX DDI 3202K										
		BMX DDI 3202K										
		BMX DDO 1602										
		BMX AMI 0810										
		BMX AMI 0810										
		BMX AMO 0410										
		BMX AMO 0410										
		BMX NRP 0200										

DETAIL A - PLC-M806 RACK CONFIGURATION

REV 0 OF THIS DRAWING NOT AS-BUILT DURING TIME OF THIS TENDER.  
CONTRACTOR TO PROVIDE MODIFICATIONS SHOWN IN REDLINE MARKUPS AS PART OF SCOPE OF WORK.

1. PROVIDE NEW MODICON X80, MULTIMODE FIBRE CONVERTER MODULE IN EXISTING HVAC CONTROL PANEL TO CONNECT TO REMOTE I/O PANEL CP-C827.

1-0650A-A0001	INSTRUMENT LAYOUT
1-0650M-A0042 - A0061	ALL AUTOMATION DRAWINGS
1-0650M-A0041	HVAC CONTROL PANEL CP-M806 POWER DISTRIBUTION
DRAWING NUMBER	REFERENCE DRAWING



DESIGNED BY: MAM

DRAWN BY: MAM

SCALE: NTS

DATE: 2023-07-14

CONSULTANT NO.:

CHECKED BY: ALV

APPROVED BY: SSB

RELEASED FOR CONSTRUCTION BY:

DATE:

ENGINEER'S SEAL

2023-07-14

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

HURST PUMPING STATION

COOLING UPGRADES

HVAC CONTROL PANEL CP-M806

PANEL LAYOUT

CITY DRAWING NUMBER

1-0650M-A0040

SHEET

001

REV.

0

SIZE

A1