

INTERIOR PANEL VIEW

1 : 5

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	TYPE 12 MODULAR ENCLOSURE WITH SUB-PANEL - 2000x1600x600mm WITH LARGE DATA POCKET	HOFFMAN	PP0D20166 ADP2
2	1	200mm PLINTH BASE FOR ITEM 1	HOFFMAN	PPB2166
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	FEED THROUGH TERMINAL END PLATE - D-UT 2,5/4 TWIN	PHOENIX CONTACT	3047141
8	AS REQ'D	TERMINAL 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 - UT4B 4 WITH FUSE PLUG-P-FU 5X20	PHOENIX CONTACT	3044720 3036806
11	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE - D-UT4B 2,5/4	PHOENIX CONTACT	3047293
12	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 1.75"x3.12"	PANDUIT	F1.5X3LG6
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	LED PANEL LIGHT AND DOOR SWITCH	HOFFMAN	LED24V15 ALFSWD
21	1	X80 RIO RACK - AS PER DETAIL A	SCHNEIDER	-

GENERAL NOTES:

- 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, 16 AWG.
- 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 24 VDC WIRING SEPARATE FROM 120 VAC WIRING.
- JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.

SPECIFIC NOTES:

- PROVIDE MODULAR CABINET ACCESSORIES AND FRAME JOINING KITS AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE BARRIER PANELS BETWEEN JOINED OR GANGED ENCLOSURES. PROVIDE SOLID SIDES TO CLOSE OPEN SIDES OF ENCLOSURE.
- CONNECT ISOLATED DIN RAIL TO ISOLATED GROUND BAR.

RIO-C800-2.R0
RACK: BME XBP 1200

PS	0	1	2	3	4	5	6	7	8	9	10	11		
BMX CPS 3020	BME CRA 312 10	BMX DDI 3202K	BMX DDI 3202K	BMX DDI 3202K	BMX DDI 3202K	BMX DDI 3202K	SPACE (BMX XEM 010)	BMX DDO 1802	BMX DDO 1802	BMX DDO 1802	SPACE (BMX XEM 010)	BMX AMI 0810	BMX XBE 1000	TSX TLY EX

RIO-C800-2.R1
RACK: BMX XBP 0400

PS	0	1	2	3	
BMX CPS 3020	BMX AMO 0410	BMX AMO 0410	BMX AMO 0410	SPACE (BMX XEM 010)	BMX XBE 1000

CONNECTOR LEGEND:

- BMX FCW 303 40-WAY CONNECTOR WITH FLYING LEADS
- BMX FTB 2010 SCREW CLAMP TERMINAL BLOCK
- BMX FTW 308S 28-WAY REMOVABLE TERMINAL BLOCK WITH FLYING LEADS

(A) DETAIL - RIO RACK CONFIGURATION

NTS

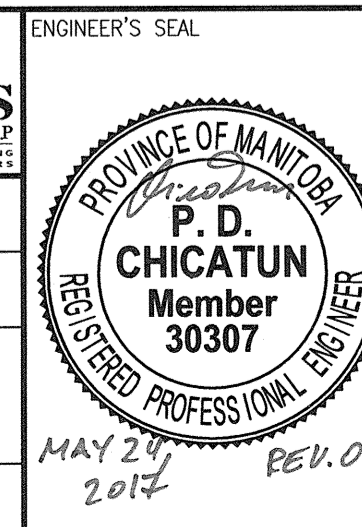
REFERENCE DRAWINGS	DESCRIPTION
1-0102-AGAD-C001	EQUIPMENT LAYOUT, AUTOMATION ROOM LAYOUT



NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR ADDENDUM 1 - 976-2016	2017/05/26	SB	PC
00	ISSUED FOR CONSTRUCTION - 976-2016	2017/04/05	MW	PC

CH2MHILL
SNC-Lavalin
DESIGNED BY: M. WANG
DRAWN BY: M. WANG
SCALE: AS SHOWN
DATE: 2016/05/17
CONSULTANT NO.: 474248

CHECKED BY: P. CHICATUN
APPROVED BY: E. RYCZKOWSKI
ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2017/04/05



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPPC UPGRADING/EXPANSION PROJECT
AUTOMATION - CABINET LAYOUT
CHEMICAL/ELECTRICAL BUILDING
CP-C822, PROCESS RIO CABINET - RIO-C800-2

CITY DRAWING NUMBER: 1-0102-ACBD-C017-002
SHEET: 01
REV: 01
SIZE: A1