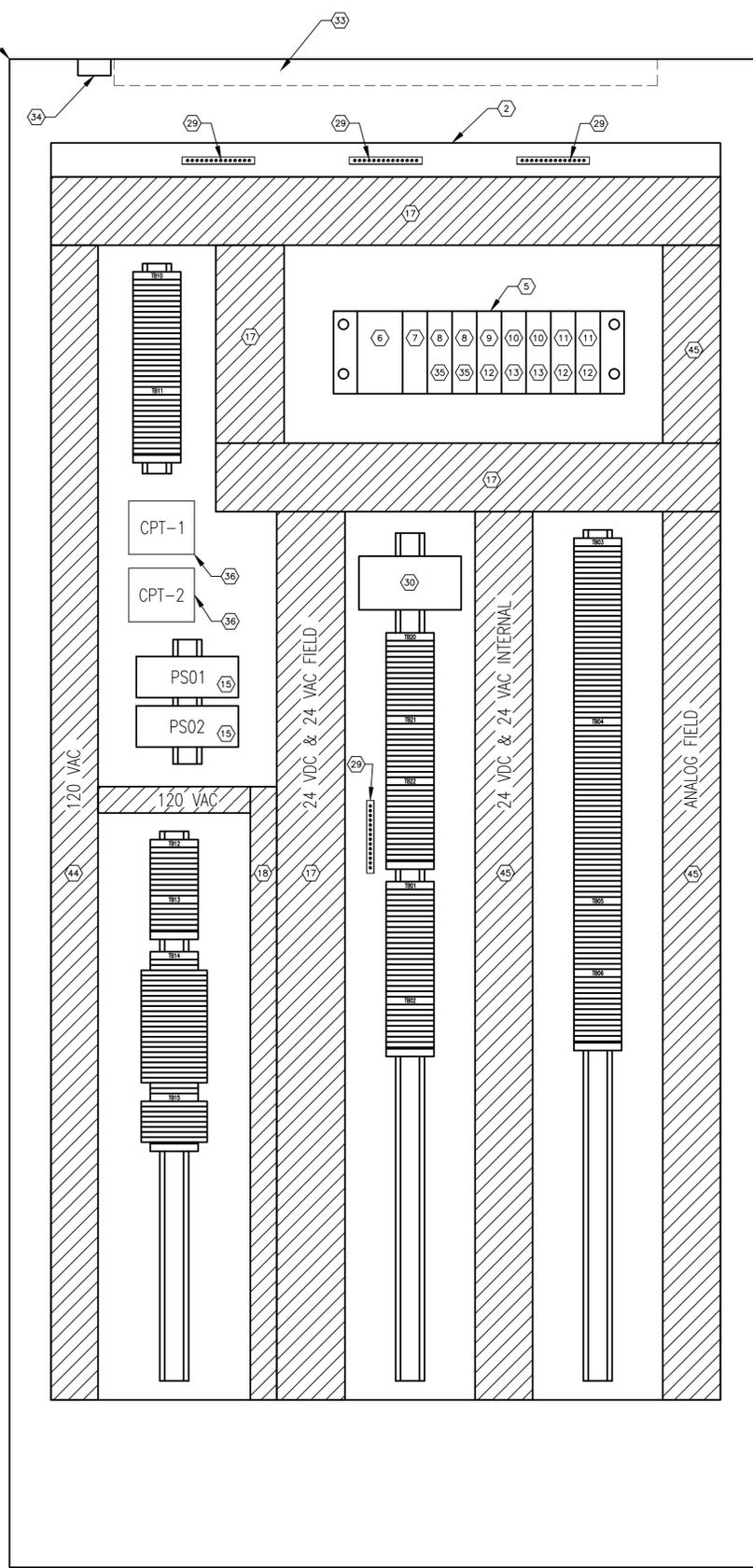


EXTERIOR PANEL VIEW
SCALE: 1 : 4



INTERIOR PANEL VIEW
SCALE: 1 : 4

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	ENCLOSURE, FREE STAND, SINGLE DOOR, NEMA 12	HOFFMAN	A723618FS
2	1	BACKPAN FOR ITEM 1	HOFFMAN	A72P36F1
3	-	NOT USED		
4	1	FOLDING SHELF	HOFFMAN	AASHLF1818
5	1	8 SLOT RACK	SCHNEIDER ELECTRIC	BMX XBP 0800
6	1	RACK POWER SUPPLY, 17 W	SCHNEIDER ELECTRIC	BMX CPS 2010
7	1	PROCESSOR	SCHNEIDER ELECTRIC	BMX P34 2020
8	1	32-POINT DIGITAL INPUT	SCHNEIDER ELECTRIC	BMX DDI 3202K
9	1	16-POINT DIGITAL OUTPUT	SCHNEIDER ELECTRIC	BMX DDO 1602
10	2	8-CHANNEL ANALOG INPUT	SCHNEIDER ELECTRIC	BMX AMI 0810
11	2	4-CHANNEL ANALOG OUTPUT	SCHNEIDER ELECTRIC	BMX AMO 0410
12	3	SCREW CLAMP TERMINAL BLOCK	SCHNEIDER ELECTRIC	BMX FTB 2010
13	2	SCREW CLAMP TERMINAL BLOCK	SCHNEIDER ELECTRIC	BMX FTB 2810
14	-	NOT USED		
15	2	24 VDC POWER SUPPLY	SOLA	SDN 5-24-100C
16	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
17	AS REQ'D	NARROW SLOT WIRING DUCT, 3.25" x 3.12"	PANDUIT	
18	AS REQ'D	NARROW SLOT WIRING DUCT, 1.26" x 3.12"	PANDUIT	
19	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
20	AS REQ'D	FUSED TERMINAL	PHOENIX CONTACT	3046142
21	AS REQ'D	FUSE CONNECTOR	PHOENIX CONTACT	3036806
22	AS REQ'D	KNIFE-DISCONNECT TERMINAL	PHOENIX CONTACT	3046139
23	AS REQ'D	POTENTIAL-EARTH TERMINAL	PHOENIX CONTACT	3046207
24	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
25	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
26	AS REQ'D	DOUBLE LEVEL FUSED TERMINAL	PHOENIX CONTACT	3044720
27	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE	PHOENIX CONTACT	3047293
28	AS REQ'D	PLUG-IN BRIDGE	PHOENIX CONTACT	3030365
29	4	GROUND BAR, 14 TAPS	ILSCO	-
30	1	ETHERNET SWITCH 5 PORT	MOXA	EDS-305
31	-	NOT USED		
32	1	POWER & DATA ACCESS PORT	HUBBELL	P155E
33	1	PANEL LIGHT	-	-
34	1	DOOR SWITCH, METAL ENCLOSED	-	-
35	1	PREFORMED CORDSET	SCHNEIDER ELECTRIC	BMX FCW 303
36	2	120:24 VAC TRANSFORMER, 100 VA	-	-
37	-	NOT USED		
38	-	NOT USED		
39	AS REQ'D	LAMACOIDS, WHITE BACKGROUND, BLACK TEXT	-	-
40	1	SWITCH, 3 POSITION, MAINTAINED	ALLEN BRANLEY	800T
41	AS REQ'D	RELAY TERMINAL BLOCK, 120 VAC	PHOENIX CONTACT	2966197
42	AS REQ'D	RELAY TERMINAL BLOCK, 24 VDC	PHOENIX CONTACT	2966171
43	1	ARC FLASH LAMACOID	-	-
44	AS REQ'D	NARROW SLOT WIRING DUCT, 2.25" x 3.12"	PANDUIT	-
45	AS REQ'D	NARROW SLOT WIRING DUCT, 2.75" x 3.12"	PANDUIT	-

NOTES:

- ALL POWER WIRING TO BE TEW/MTW 600V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- ALL 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.
- EXTERNAL COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
- ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. THREE COPIES OF CERTIFIED TEST DOCUMENTATION ARE TO BE PROVIDED.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- PROVIDE WIRE BARREL FERULES FOR ALL WIRING.
- 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.
- ALL ETHERNET CABLING IS TO BE ATTACHED TO THE SIDE WALLS OF THE ENCLOSURE AND KEPT AS FAR AS POSSIBLE FROM 120VAC WIRING.
- CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING LAMACOIDS.
- DOOR CLAMP BLOCKS TO BE REMOVED.
- JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR TENDER, BID OPP. 42-2013	2013/01/15	TMC	CJR
00	ISSUED FOR TENDER, BID OPP. 545-2012	2012/08/31	TMC	CJR

		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080		ENGINEER'S SEAL
DESIGNED BY:	B. CLEVEN	CHECKED BY:	C. REIMER	
DRAWN BY:	M.J. PERSSON	APPROVED BY:	C. REIMER	
SCALE:	1:5	RELEASED FOR CONSTRUCTION BY:	N. HARRINGTON	
DATE:	2011/11/14	DATE:	2012/08/31	
CONSULTANT NO.:	112577-0116-48DD-0108			

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 SOUTH END WATER POLLUTION CONTROL CENTRE
 VENTILATION & MISC. UPGRADES
 PANEL LAYOUT
 LCP-G2
 CITY DRAWING NUMBER: 1-0102G-A0107
 SHEET: 001
 REV: 01
 SIZE: A1