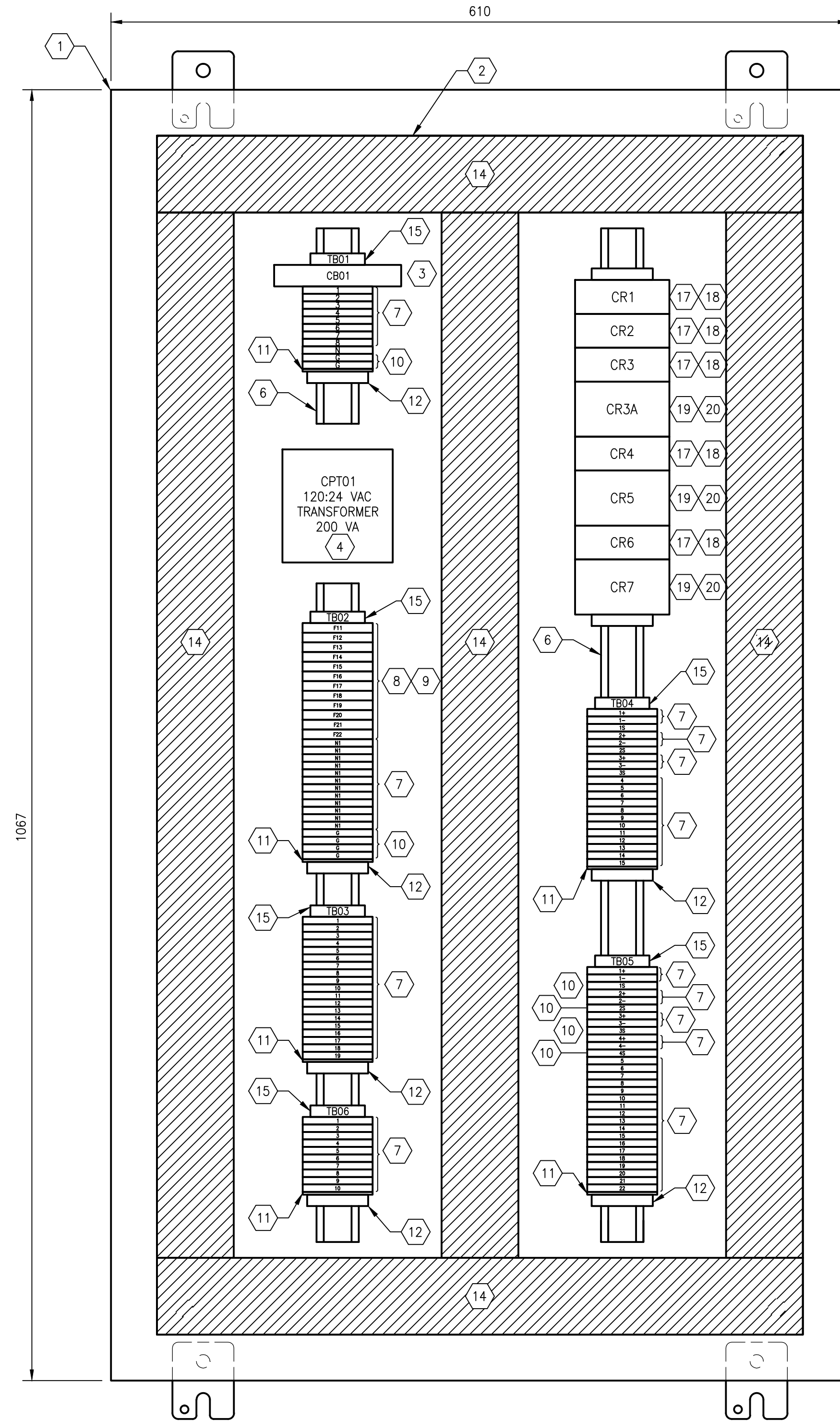


EXTERIOR PANEL VIEW
SCALE: 1 : 3



INTERIOR PANEL VIEW
SCALE: 1 : 3

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED ENCLOSURE	HOFFMAN	A422408LP
2	1	BACKPAN	HOFFMAN	A42P24
3	1	MINIATURE CIRCUIT BREAKER, 5 AMP, 1 POLE, DIN RAIL MOUNTED	EATON	FAZ-D5/1-NA-SP
4	1	120:24VAC TRANSFORMER, 200 VA	SQUARE D	9070T200D13
5	AS REQ'D	LAMACOID, WHITE PLATE WITH BLACK TEXT	-	-
6	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
7	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
8	AS REQ'D	FUSED TERMINAL	PHOENIX CONTACT	3046142
9	AS REQ'D	FUSE CONNECTOR	PHOENIX CONTACT	3036806
10	AS REQ'D	POTENTIAL EARTH TERMINAL	PHOENIX CONTACT	3046207
11	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
12	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
13	AS REQ'D	PLUG-IN BRIDGE	PHOENIX CONTACT	3030365
14	AS REQ'D	NARROW SLOT WIRING DUCT, 2.25" x 3.12"	PANDUIT	-
15	AS REQ'D	TERMINAL BLOCK MARKER	PHOENIX CONTACT	1004348
16	AS REQ'D	KNIFE DISCONNECT TERMINAL	PHOENIX CONTACT	3046139
17	5	RELAY, 24 VAC, DPDT, LED INDICATOR	OMRON	LY2N 24AC
18	5	RELAY BASE, FOR ITEM 17	OMRON	PTF08A-E
19	3	RELAY, 24 VAC, 4PDT, LED INDICATOR	OMRON	LY4N 24AC
20	3	RELAY BASE, FOR ITEM 19	OMRON	PTF14A-E

NOTES

- WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
- ALL 120 VAC POWER WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- ALL 24 VAC POWER WIRING TO BE TEW/MTW 300V OR HIGHER, 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 OR HIGHER, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- ALL ANALOG WIRING TO BE 18 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V OR HIGHER.
- 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.
- 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.
- REFER TO POWER DISTRIBUTION AND LOOP DRAWINGS FOR INTERNAL WIRING REQUIREMENTS. SEE DRAWINGS:
1-0309U-A0013
1-0309U-A0020
1-0309U-A0021
1-0309U-A0022
1-0309U-A0023
1-0309U-A0025
1-0309U-A0024
1-0309U-A0025
1-0309U-A0026
1-0309U-A0027
1-0309U-A0028
1-0309U-E0014
1-0309U-E0015
1-0309U-E0016

WARNING
ALL EXTERIOR AND INTERIOR SURFACES SHOULD BE PROTECTED BY CORROSION RESISTANT PAINT



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OPP. 475-2018	2018/05/09	TC	BC

SNC-LAVALIN INC.
148 Nature Park Way
Winnipeg, MB, Canada R3P 0X7
204-786-8080

DESIGNED BY: T. CHURCH
DRAWN BY: Y. KONIG
SCALE: AS NOTED
DATE: 2018/03/16
CONSULTANT NO.:

CHECKED BY: B. CLEVEN
APPROVED BY: B. CLEVEN
ISSUED FOR CONSTRUCTION BY:
DATE:

ENGINEER'S SEAL

**PRELIMINARY
NOT TO BE
USED FOR
CONSTRUCTION**

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

METRO ROUTE 20 UNDERPASS PUMPING STATION
2018 UPGRADES
PANEL LAYOUT
VENTILATION PANEL JBA-U86

CITY DRAWING NUMBER: 1-0309U-A0019
SHEET: 001
REV: 00
SIZE: A1