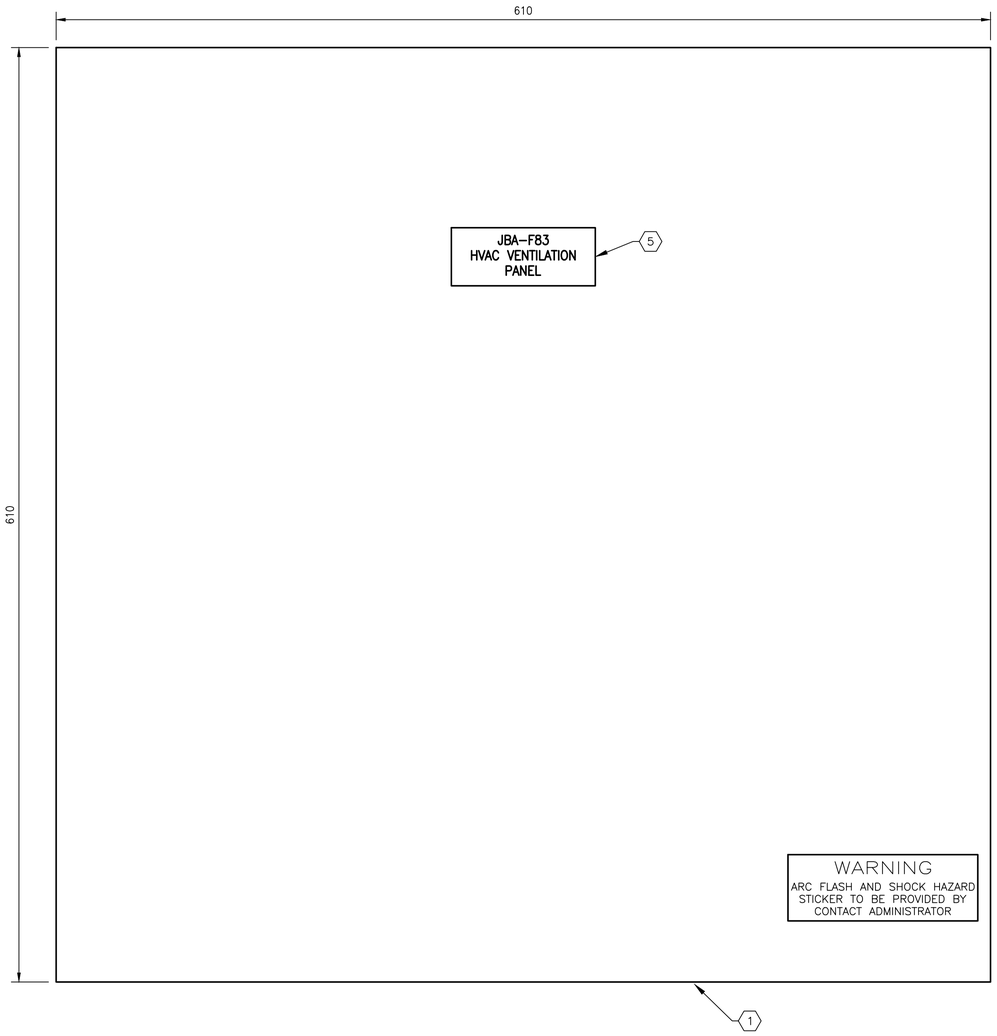
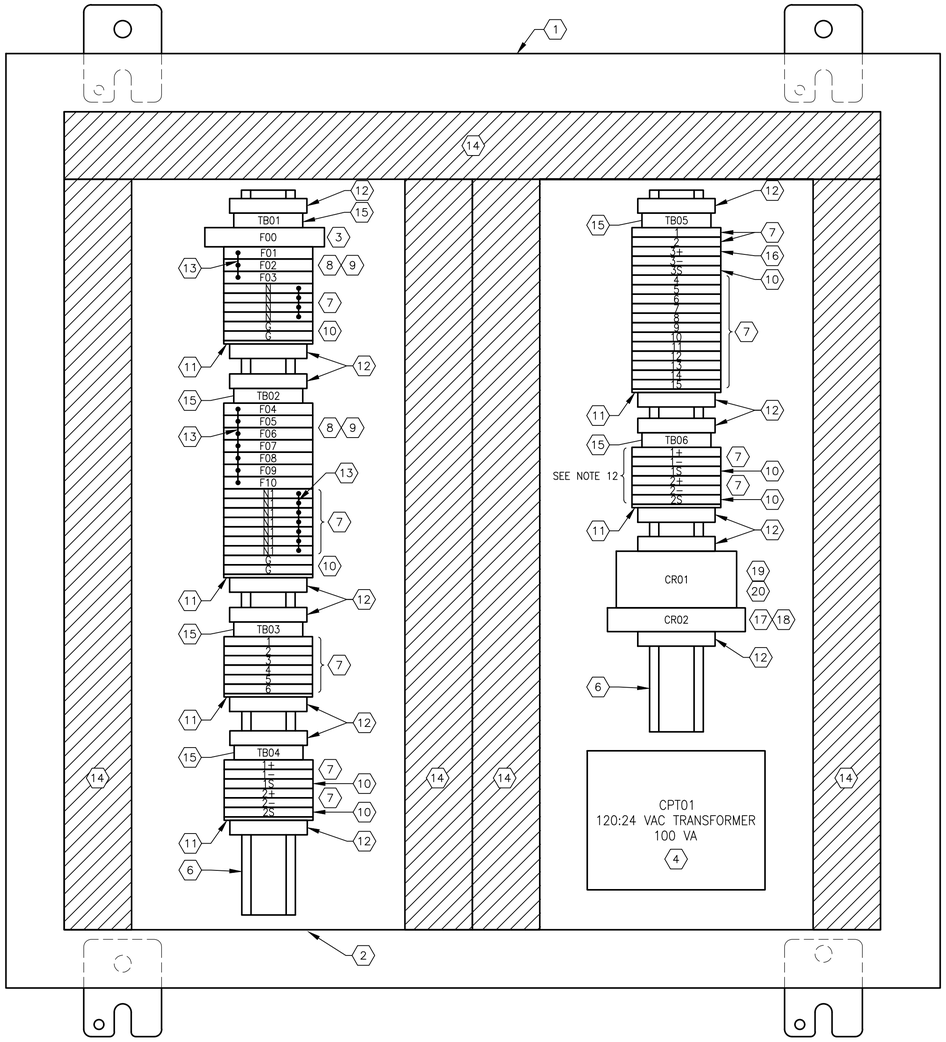
A1 SIZE – 594mm x 841mm



EXTERIOR PANEL VIEW

SCALE: 1 : 2



INTERIOR PANEL VIEW

SCALE: 1 : 2

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	SINGLE–DOOR TYPE 12 & 13 WALL–MOUNTED ENCLOSURE	HOFFMAN	A24H24BLP
2	1	BACKPAN	HOFFMAN	A36P24
3	2	FUSE HOLDER	LITTELFUSE	LPHV001
		5 AMP FUSE, CLASS CC, TIME DELAY	LITTELFUSE	CCMR005
4	1	120:24VAC TRANSFORMER, 100 VA	HAMMOND	SP100PR
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 (SEE NOTE 14)	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, 1.75" x 2.12"	PANDUIT	–
15	AS REQ'D	TERMINAL BLOCK MARKER	PHOENIX CONTACT	1004348
16	AS REQ'D	KNIFE–DISCONNECT TERMINAL (SEE NOTE 13)	PHOENIX CONTACT	3046139
17	1	RELAY, 24 VAC, SPDT, LED	OMRON	G2R–1–SN–AC24(S)
18	1	RELAY BASE, SPDT	OMRON	P2RF–05
19	1	RELAY, 24 VAC, 3PDT, LED	OMRON	LY3N–AC24
20	1	RELAY BASE, 3PDT	OMRON	PTF11A

NOTES:

1. WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
2. ALL 120 VAC POWER WIRING TO BE TEW/MTW 600V, 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
3. ALL 24 VAC/VDC 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.
4. ALL CONTROL WIRING TO BE TEW/MTW 300V OR HIGHER, 105°C INSULATION, STRANDED COPPER, 16 AWG.
5. ALL ANALOG WIRING TO BE 18 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V OR HIGHER.
6. EXTERNAL COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
7. ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
8. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
9. PROVIDE WIRE BARREL FERULES FOR ALL WIRING.
10. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING
11. ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
12. TB06 TERMINALS ARE SPARES.
13. KNIFE–DISCONNECT TERMINALS REQUIRED FOR ALL ANALOG POSITIVE (+) TERMINALS.
14. POTENTIAL–EARTH TERMINALS REQUIRED FOR ALL GROUND TERMINALS ALONG WITH ALL CABLE SHIELD TERMINALS.

DRAWING NUMBER	REFERENCE DRAWINGS
1–0118F–A0030	LOOP DIAGRAM MOTOR ROOM RECIRCULATION DAMPER CONTROL
1–0118F–A0029	LOOP DIAGRAM HCE–F63 MOTOR ROOM DUCT HEATER
1–0118F–A0024	LOOP DIAGRAM STATION OCCUPANCY SWITCH HS–F600
1–0118F–A0013	POWER DISTRIBUTION SCHEMATIC HVAC VENTILATION PANEL JBA–F83
1–0118F–A0001	AUTOMATION PLAN MAIN FL, LOWER LEVEL AND CHAMBER AREAS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

50 0 50 100mm

1 : 2

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CONSTRUCTION, TENDER 167–2023	2023/03/02	MS	BC

SNC·LAVALIN

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

DESIGNED BY: M. SARIC	CHECKED BY: B. CLEVEN
DRAWN BY: M. SARIC	APPROVED BY: B. CLEVEN
SCALE: 1 : 2	ISSUED FOR CONSTRUCTION BY: K. ZUREK
DATE: 2022/07/06	DATE: 2023/03/02
CONSULTANT NO.:	

ENGINEER'S SEAL

PROVINCE OF MANITOBA
M. SARIC
Member
46571
REGISTERED PROFESSIONAL ENGINEER
2023-03-02

REV. 00

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

BANNATYNE FLOOD PUMPING STATION
2023 UPGRADES
PANEL LAYOUT & BILL OF MATERIAL
HVAC VENTILATION CONTROL PANEL
JBA–F83

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0118F–A0014	001	00	A1

1–0118F–A0014–001_Rev00.dwg

LAST SAVE: 2023/03/02 – 4:15pm
PATH: \\Winpdc1\proj$\691232\4ENG\48IC\DD – General DWG\1–0118F–A0014–001_Rev00.dwg