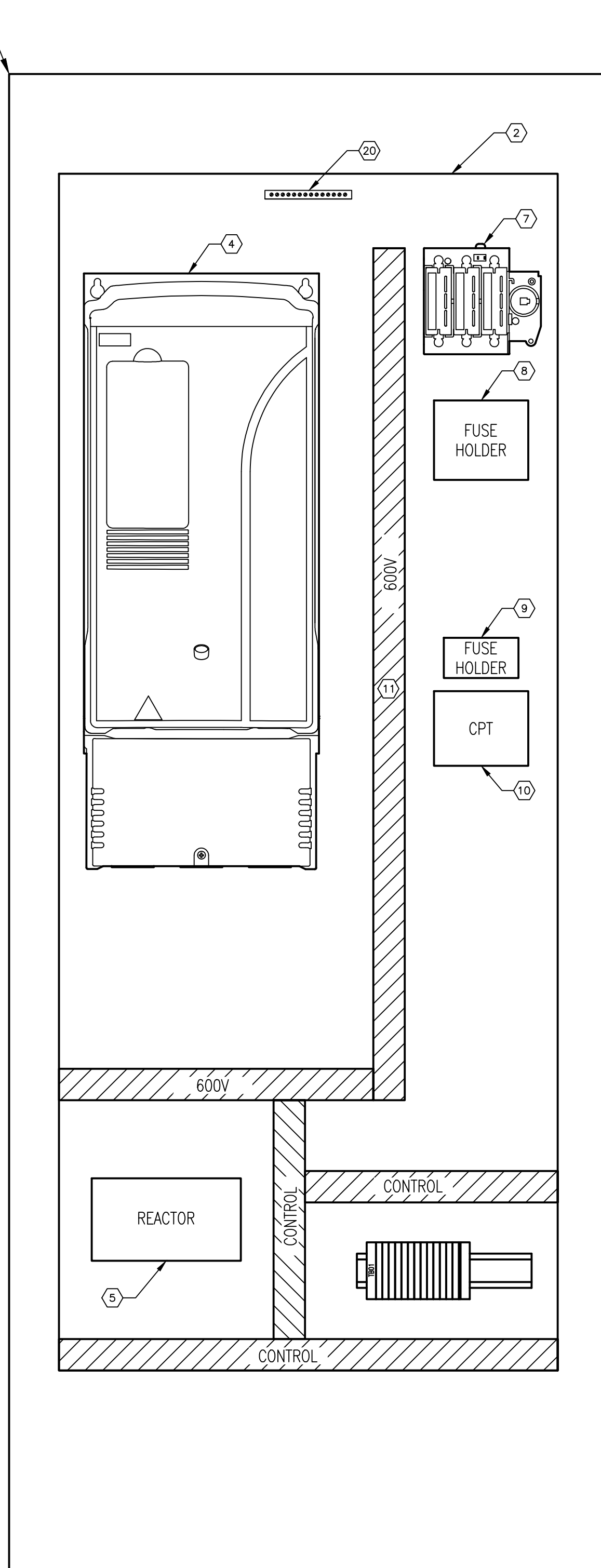
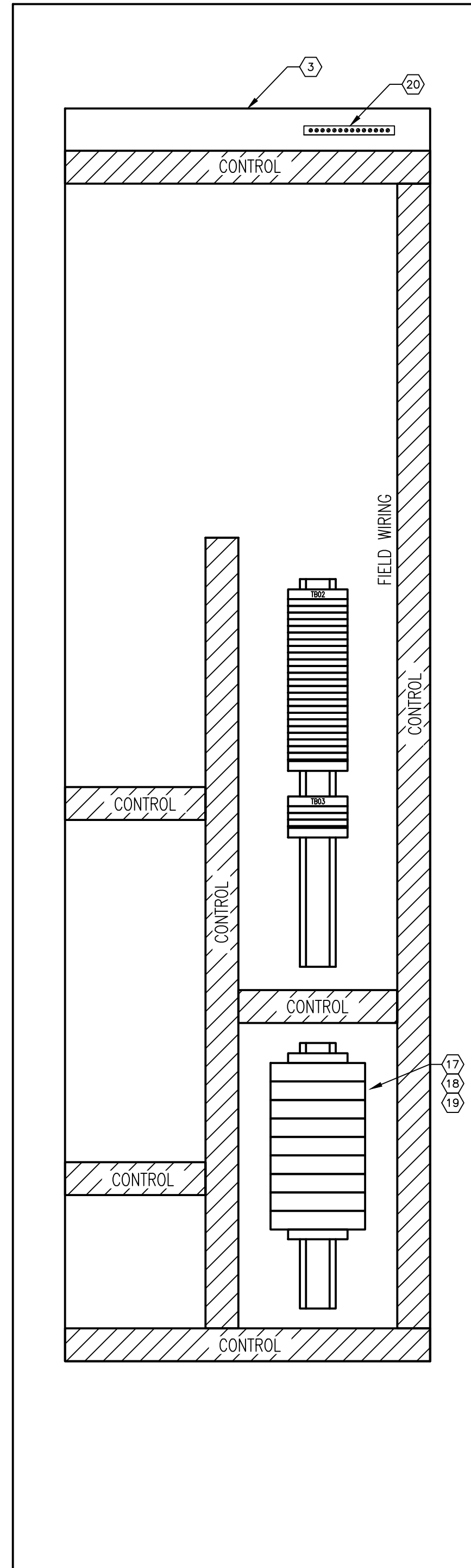


EXTERIOR PANEL VIEW
SCALE: 1 : 4



INTERIOR BACK PANEL VIEW
SCALE: 1 : 4



INTERIOR RIGHT SIDE PANEL VIEW
SCALE: 1 : 4

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	ENCLOSURE, FREE STAND, SINGLE DOOR, NEMA 12	HOFFMAN	A602418FS
2	1	BACKPAN FOR ITEM 1	HOFFMAN	A60P24F1
3	1	SIDE PANEL FOR ITEM 1	HOFFMAN	A60SMP14
4	1	VFD, 10 HP	ABB	ACS800
5	1	REACTOR, 3%, TERMINAL CONNECTION, 10HP	MTE	RL-01202
6	1	DISCONNECT HANDLE AND SHAFT, BLACK	ALLEN BRADLEY	194R
7	1	DISCONNECT, 30A, NON-FUSIBLE	ALLEN BRADLEY	194R-N30-1753
8	1	FUSE HOLDER, 600V, 3-20A CLASS T FUSES	COOPER BUSSMAN	T60100-3C
9	1	FUSE HOLDER, 600V, 2-0.6A CLASS CC FUSES	COOPER BUSSMAN	BCA6032SQ
10	1	CONTROL POWER TRANSFORMER, 600:120V, 150VA		
11	AS REQ'D	NARROW SLOT WIRING DUCT, 1.26" x 3.12"	PANDUIT	
12	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
13	AS REQ'D	FUSED TERMINAL	PHOENIX CONTACT	3046142
14	AS REQ'D	FUSE CONNECTOR	PHOENIX CONTACT	3036806
15	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
16	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
17	AS REQ'D	RELAY, PLUG IN DPDT 24 VDC	OMRON	G2R-2-SND 24VDC
18	AS REQ'D	RELAY, PLUG IN DPDT 120 VAC	OMRON	G2R-2-SN 120VAC
19	AS REQ'D	RELAY SOCKET, SCREW TERMINALS	OMRON	P2RF-08-E
20	2	GROUND BAR, 14 TAPS	ILSCO	-
21	AS REQ'D	LAMACOID, WHITE BACKGROUND, BLACK TEXT	-	-
22	1	SWITCH, 3 POSITION, MAINTAINED	ALLEN BRADLEY	800T
23	1	PILOT LIGHT, LED, RED	ALLEN BRADLEY	800T
24	1	FILTERED SUPPLY FAN	HOFFMAN	SF09
25	1	EXHAUST GRILLE	HOFFMAN	SG09

NOTES:

- WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
- 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 CONTROL WIRING SEPARATE FROM 600VAC WIRING.
- CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING LAMACOIDS.
- DOOR CLAMP BLOCKS TO BE REMOVED.



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	2012/09/10	TMC	CJR

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

DESIGNED BY: T. CHURCH
CHECKED BY: C. REIMER
DRAWN BY: M.J. PERSSON
APPROVED BY: C. REIMER
SCALE: 1:4
RELEASED FOR CONSTRUCTION BY: N. HARRINGTON
DATE: 2012/05/11
DATE: 2012/09/10
CONSULTANT NO.: 112577-0116-47DD-0013

ENGINEER'S SEAL

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
VENTILATION & MISC. UPGRADES
PANEL LAYOUT
VFD-G687

CITY DRAWING NUMBER: 1-0102G-E0048
SHEET: 001
REV: 01
SIZE: A1