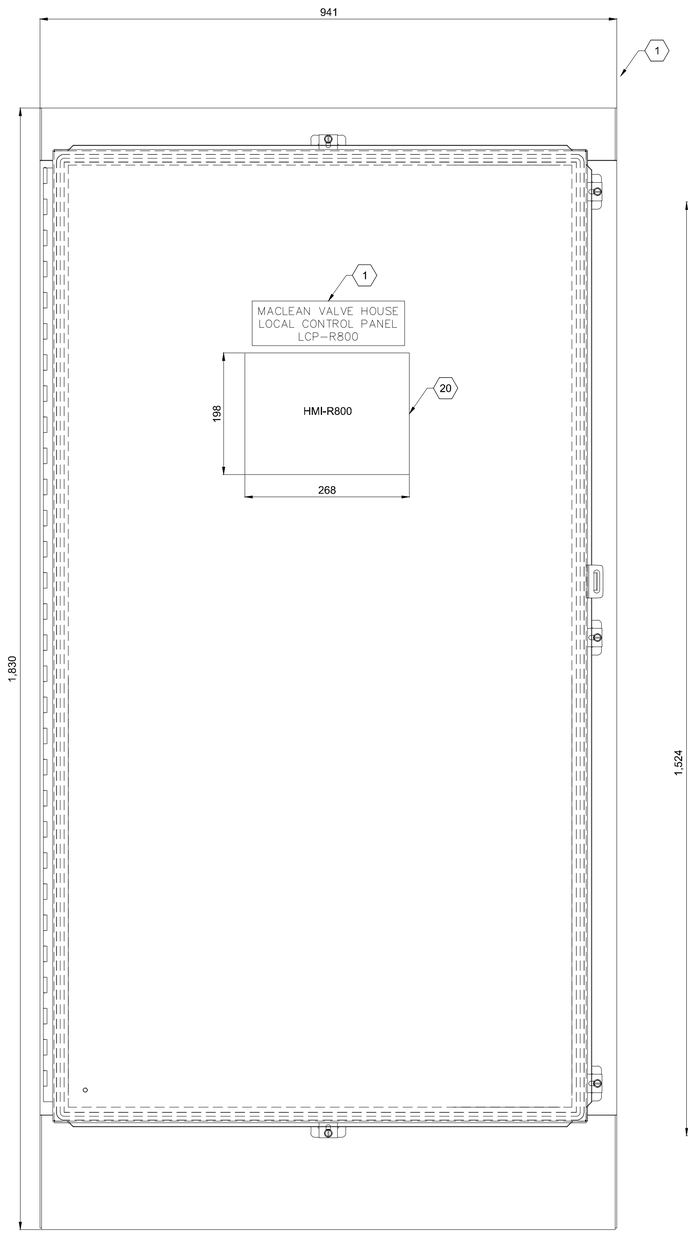
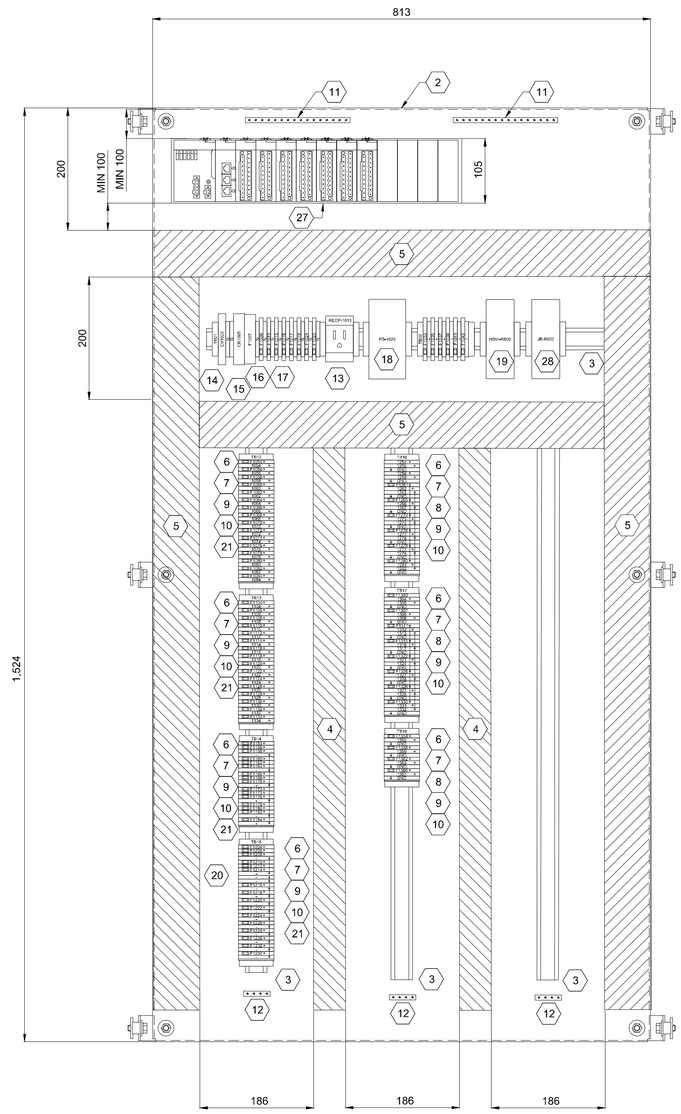


LCP-R800 PANEL FRONT (SEC 1A MCC-R741)

1:5



LCP-R800 PANEL BACKPAN

1:5

NOTES:

1. ALL 120 VAC POWER WIRING TO BE TEW 600V, 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
2. ALL 24 VDC POWER WIRING TO BE TEW 600V, 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
3. ALL CONTROL WIRING TO BE TEW 600V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
4. WIRE COLOURS:
   120 VAC POWER (HOT): BLACK. 120 VAC NEUTRAL: WHITE.
   24 VDC POWER: BLUE. 24 VDC COMMON: BROWN.
   DISCRETE CONTROL AC: RED. DISCRETE CONTROL DC: BLUE.
5. ALL ANALOG TWISTED PAIR WIRING TO BE 18 AWG SHIELDED, WITH INSULATION RATED AT 600V.
6. EXTERNAL COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
7. ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARE CONTAINERS OF EACH FUSE SIZE ARE TO BE PROVIDED.
8. TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. THREE COPIES OF CERTIFIED TEST DOCUMENTATION ARE TO BE PROVIDED.
9. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
10. PROVIDE WIRE BARREL FERULES FOR ALL WIRING.
11. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS. COMPLETE WITH GROUP LABELING.
12. CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING COMPUTER-GENERATED ADHESIVE LABELS OR LAMACOIDS.
13. ALL FIBRE STRANDS SHALL BE TESTED AND TERMINATED.

LCP-R800 BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG #
1	1	MCC-R741 SECTION 1A	SCHNEIDER	–
2	1	ENCLOSURE BACKPAN (1524H x 813W)	HAMMOND	72XFW
3	AS REQ	35mm DIN RAIL	PHOENIX CONTACT	801733
4	AS REQ	NARROW SLOT WIRING DUCT 2"x4"	PANDUIT	–
5	AS REQ	NARROW SLOT WIRING DUCT 3"x4"	PANDUIT	*
6	AS REQ	FEED THROUGH TERMINAL BLOCK	PHOENIX CONTACT	3046184
7	AS REQ	FUSED TERMINAL BLOCK	PHOENIX CONTACT	3046142
8	AS REQ	GROUND TERMINAL BLOCK	PHOENIX CONTACT	3046207
9	AS REQ	TERMINAL BLOCK END PLATE	PHOENIX CONTACT	3047141
10	AS REQ	DIN RAIL END CLAMP – CLIPFIX	PHOENIX CONTACT	3022218
11	2	GROUND BAR 14 TAPS	ILSCO	D167-14
12	3	GROUND BAR 4 TAPS	ILSCO	D167-4
13	1	RECEPTACLE DIN RAIL MOUNT. 125V 15A	PHOENIX CONTACT	SD-US/SC/LA/GY (2963860)
14	1	CIRCUIT BREAKER, 10A, DIN RAIL MOUNT	PHOENIX CONTACT	914167
15	1	RELAY, 120VAC 2P	OMRON	LY2-110-120V, PTF08A, PYCA1
16	1	CLASS CC FUSE HOLDER	ALLEN BRADLEY	1492-FB1C30
17	1	3A FUSE, CLASS CC	BUSSMANN	FNQR-3
18	1	24VDC POWER SUPPLY, 10A	PHOENIX CONTACT	2866763
19	1	8PORT ETHERNET, 2PORT FIBRE, MANAGED SWITCH	SCHENIDER	MCSESM103F2CU0
20	1	HMI SCHNIDER MAGELIS GTU + 1GB SD CARD	SCHNEIDER	HMIDT551 HMIG3U HMIZSD1GS
21	AS REQ	GLASS FUSE 0.5A	MERSEN	GGM-1/2
22	AS REQ	GLASS FUSE 1A	MERSEN	GGM-1
23	AS REQ	GLASS FUSE 2A	MERSEN	GGM-2
24	AS REQ	GLASS FUSE 3A	MERSEN	GGM-3
25	AS REQ	GLASS FUSE 5A	MERSEN	GGM-5
26	AS REQ	LAMACOID WHITE WITH BLACK TEXT	–	–
27	1	M580 PLC RACK – 1-0630P-A0083-001	SCHNEIDER	–
28	1	FIBRE TERMINATION BOX	PHOENIX CONTACT	1019711

DRAWING NUMBER	REFERENCE DRAWINGS
1-0630R-E0004-001	MCC ELEVATION AND DETAILS
1-0630P-A0087-001	LCP-R800 WIRING SCHEMATIC ANALOG INPUTS
1-0630P-A0086-001	LCP-R800 WIRING SCHEMATIC DIGITAL OUTPUTS
1-0630P-A0085-001	LCP-R800 WIRING SCHEMATIC DIGITAL INPUTS
1-0630P-A0084-001	LCP-R800 WIRING SCHEMATIC POWER DISTRIBUTION
1-0630P-A0083-001	LCP-R800 TERMINAL STRIP LAYOUTS AND NETWORK DIAGRAM
1-0630R-E0003-001	ELECTRICAL PLANS, LUIMINAIR, AND PANEL SCHEDULE

B.M.
ELEV.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER 195-2024	2024-02-29	C.L.

DILLON CONSULTING

DESIGNED BY	KS	CHECKED BY	CL
DRAWN BY	KS	APPROVED BY	BLM
SCALE: HORIZONTAL VERTICAL	AS NOTED	RELEASED FOR CONSTRUCTION	
DATE	2023-01-20	DATE	

PLOT DATE: 2024 02 29

ENGINEER'S SEAL

PROVINCE OF MANITOBA
C.A. LANGE
Member
37791
2024/02/29
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
211001

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

REGIONAL WATER DISTRIBUTION SYSTEM
MACLEAN VALVE HOUSE MCC UPGRADE

LCP-R800
PANEL LAYOUT & BILL OF MATERIAL

SHEET 10 OF 33

CITY DRAWING NUMBER
1-0630P-A0082-001

BID OPPORTUNITY: 195-2024
CONTRACT NUMBER: X

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