

11. PROVIDE WIRE BARREL FERULES FOR ALL WIRING, EXCEPT ON THE SIGNAL ISOLATORS WHERE TWO WIRES ARE REQUIRED ON ONE

13. CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING COMPUTER-GENERATED ADHESIVE LABELS OR LAMACOIDS.

12. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.

14. REFER TO LOOP DRAWING 1-0309U-A0008 FOR LIC-U500 INTERNAL PANEL WIRING.

15. REFER TO DRAWING 1-0309U-A0009-002 FOR CR10 INTERNAL PANEL WIRING.

SIGNAL ISOLATOR TERMINAL.

REFERENCE DRAWINGS

DRAWING NUMBER

DESCRIPTION MANUFACTURER CATALOG NUMBER TWO DOOR FLOOR-MOUNTED TYPE 12 ENCLOSURE HOFFMAN A604810LP A60P48 HOFFMAN 7ML5033-1CB00-2A ULTRASONIC LEVEL TRANSMITTER SIEMENS PLT-SEC-T3-120-P SURGE ARRESTER MODULE, 120V PHOENIX CONTACT (2905234) PT-BE/FM (2839282) SURGE ARRESTER BASE PHOENIX CONTACT 6 AS REQ'D 35mm DIN RAIL PHOENIX CONTACT 0801733 AS REQ'D NARROW SLOT WIRING DUCT, 1.75" x 3.12", GREY 8 AS REQ'D NARROW SLOT WIRING DUCT, 2.25" x 3.12", GREY PANDUIT 9 | AS REQ'D | FEED-THROUGH TERMINAL PHOENIX CONTACT 3046184 10 AS REQ'D FUSED TERMINAL PHOENIX CONTACT 3046142 3036806 11 AS REQ'D FUSE CONNECTOR PHOENIX CONTACT 12 AS REQ'D KNIFE-DISCONNECT TERMINAL 3046139 PHOENIX CONTACT 13 AS REQ'D POTENTIAL-EARTH TERMINAL PHOENIX CONTACT 3046207 14 AS REQ'D TERMINAL END PLATE PHOENIX CONTACT 3047141 15 AS REQ'D TERMINAL END CLAMP - CLIPFIX PHOENIX CONTACT 3022218 16 AS REQ'D DOUBLE LEVEL FUSED TERMINAL PHOENIX CONTACT 3044720 18 AS REQ'D DOUBLE LEVEL TERMINAL END PLATE PHOENIX CONTACT 3047293 3030365 19 AS REQ'D PLUG-IN BRIDGE PHOENIX CONTACT 20 AS REQ'D TERMINAL BLOCK MARKER - KLM-A PHOENIX CONTACT 1004348 GROUND BAR, 14 TAPS D167-14 **ILSCO** SD-US/SC/LA/GY (2963860) RECEPTACLE, 125V, 15A, DIN RAIL MOUNTED PHOENIX CONTACT CELLULAR MODEM (SUPPLIED BY CITY) SIXNET S414-24 PSI-DATA/FAX-MODEM/RS232 24 PHOENIX CONTACT PSTN MODEM (2708203) ANNUNCIATOR PANEL — AS PER DETAIL 'A' SHOWN 25 ON SHEET 002. SCHNEIDER ELECTRIC ZB4BA4 SCHNEIDER ELECTRIC ZB4BZ009 PUSHBUTTON, 22mm, 1 N.O., RED SCHNEIDER ELECTRIC ZBE101 27 | PUSHBUTTON, 22mm, 1 N.O., BLUE SCHNEIDER ELECTRIC XB4BA61 SCHNEIDER ELECTRIC ZB4BA5 PUSHBUTTON, 22mm, 1 N.C., YELLOW SCHNEIDER ELECTRIC ZB4BZ009 SCHNEIDER ELECTRIC ZBE102 SELECTOR SWITCH, 2 POS'N, MAINTAINED, 1 N.O., SCHNEIDER ELECTRIC 29 XB4BD25 G2R-1-SN-AC120(S), 30 l OMRON RELAY, 120VAC, SPDT, LED, AND BASE P2RF-05 31 SURFACE MOUNT JACK, RJ11 _COM TDA310-4C TMC 1 F1 100 10.0A MOULDED CASE CIRCUIT BREAKER, 10 AMP, DIN 32 PHOENIX CONTACT (0914167) RAIL MOUNTED MOULDED CASE CIRCUIT BREAKER, 5 AMP, DIN RAIL PHOENIX CONTACT TMC 1 F1 100 5,0A 33 (0914138) ETHERNET PATCH CORD, CAT 6, RJ45 SERIAL RS-232 COMMUNICATION CABLE, RJ45 TO 9 PIN D-SHELL CONNECTOR 36 AS REQ'D LAMACOID WHITE WITH BLACK TEXT |QUINT-UPS/24DC/24DC/10/3. 24 VDC UNINTERRUPTIBLE POWER SUPPLY, QUINT PHOENIX CONTACT SERIES, 10A, 3.4AH 4AH (2320267) QUINT-PS/1AC/24DC/10 24 VDC POWER SUPPLY, QUINT SERIES, 10A PHOENIX CONTACT (2866763) M580 PLC RACK - AS PER DETAIL 'B', SHOWN ON SCHNEIDER ELECTRIC SHEET 002. G2R-1-SND-DC24(S), RELAY, 24VDC, SPDT, LED, DIODE, AND BASE OMRON P2RF-05 41 l RELAY, 24VDC, 4PDT, LED, AND BASE OMRON LY4N-DC24, PTF14A RELAY, 24VDC, DPDT, LED, AND BASE LY2N-DC24, PTF08A OMRON

BILL OF MATERIAL

ENGINEER'S SEAL SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 **SNC+LAVALIN** 204-786-8080 DESIGNED BY: CHECKED BY: T. CHURCH B. CLEVEN APPROVED BY: RAWN BY: B. CLEVEN ISSUED FOR CONSTRUCTION CONSTRUCTION [:] 2018/01/15

DESIGN CHECK

CONSULTANT NO.:

| 2018/05/09 | TC | BC

DATE

00 ISSUED FOR TENDER, BID OPP. 475-2018

NO. REVISIONS

PRELIMINARY NOT TO BE USED FOR

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

METRO ROUTE 20 UNDERPASS PUMPING STATION 2018 UPGRADES PANEL LAYOUT CONTROL PANEL CP-U81

CITY DRAWING NUMBER SHEET | REV. | SIZE -0309U-A0001 001 | 00 | A1

1-0309U-A0001-001-00.dwg