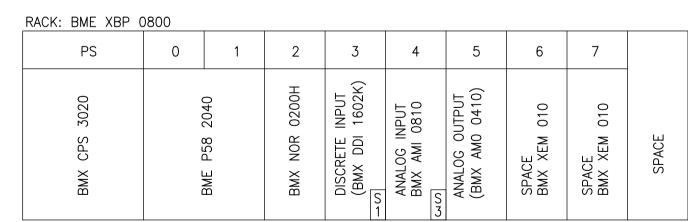


EXTERIOR PANEL VIEW

SCALE: 1:5

2 INTERIOR PANEL VIEW scale: 1:5



A DETAIL - M580 PLC RACK CONFIGURATION scale: N.T.S.

CONNECTOR LEGEND:

BMX FTB 2010 20 PIN REMOVABLE SCREW CLAMP TERMINAL BLOCK

BMX FCW 38S 28-WAY REMOVABLE TERMINAL BLOCK WITH FLYING LEADS

| 10 | _ | _ |
|-----|----------------|-------------------------|
| 9 | _ | _ |
| 8 | _ | _ |
| 7 | _ | _ |
| 6 | _ | _ |
| 5 | _ | _ |
| 4 | _ | _ |
| 3 | _ | _ |
| 2 | _ | _ |
| 1 | _ | _ |
| NO. | DRAWING NUMBER | REFERENCE DRAWING TITLE |
| | | REFERENCE DRAWINGS |

| 100 0 100 200 300 400 | | | B.M. ELEV. CONSTRUCTION COMPLETION DATE: YYYY MM DD | | | | KGS | | | |
|---------------------------------|------------------------------|-----|--|------------|-----|----------------|--------------|--------------------|--------------------|--|
| | | | | | | | | | | |
| SCALE: 1:5mm | | | | | | | | | | |
| | ENGINEERS | | | | | DESIGNED BY | D. GUEVARRA | CHECKED D. WILSON | | |
| FOR TENDER ONLY | GEOSCIENTISTS MANITOBA | | | | | DRAWN BY | D. GUEVARRA | APPROVED D. WILSON | | |
| ON ILINDLIN ONLI | Certificate of Authorization | | | | | SCALE: | | RELEASED FOR | | |
| NOT TO BE USED FOR CONSTRUCTION | KGS Group | 1 | ISSUED FOR ADDENDUM 2 | 2024 07 12 | DDW | | NTS | CONSTRUCTION | CONSULTANT DRAWIN | |
| TO TO BE OSED FOR CONSTRUCTION | No. 245 | 0 | ISSUED FOR TENDER | 2024 06 20 | DDW | NTS | | | 23-0107-00 | |
| | NO. 245 | NO. | REVISIONS | DATE | BY | DATE | 2024/03/26 | DATE | 23-0107-00 | |
| | | | | | | PLOT DATE | : 2024 07 12 | _ | BID OPPORTUNITY: 3 | |

GENERAL NOTES:

- 1. ALL POWER WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 12AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- 2. ALL CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16AWG.
- 3. ALL ANALOG WIRING TO BE 18AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V.
- 4. EXTERNAL COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
- 5. ALL FUSES ARE TO PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- 6. TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. DOCUMENT ALL TEST RESULTS.
- 7. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- 8. PROVIDE WIRE BARREL FERRULES FOR WIRING WHERE POSSIBLE.
- 9. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
- 10. ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
- 11. ROUTE ALL 24VDC WIRING SEPARATE FROM 120VAC WIRING.
- 12. JUMPER COMBES SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.
- 13. PANEL MANUFACTURER TO PROVIDE ALL INTERNAL COMMUNICATION CABLES AS SHOWN ON NETWORK DIAGRAMS.
- 14. ALL EQUIPMENT SHOWN ON THIS DRAWING ARE NEW AND ARE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.

| | DESCRIPTION | MANUFACTURER | MODEL No. | QT | |
|---|--|--------------------------|--|---------------|--|
| 1 | HOFFMAN ENCLOSURE TYPE 4/12 C/W BACKPAN, MOUNTING KIT AND | HOFFMAN | CSD423012 W/ CP4230 | <u> </u> | |
| 2 | PADLOCK HANDLE POWER SUPPLY (24VDC, 10A) | PHOENIX CONTACT | 2866873 | 1 | |
| $\frac{2}{3}$ | UPS POWER SUPPLY (24VDC, 10A) | PHOENIX CONTACT | 2320225 | <u>'</u> 1 | |
| $\frac{3}{4}$ | UPS BATTERY PACK (24VDC, 12AH) | PHOENIX CONTACT | 1274119 | | |
| | TYPE 3 SURGE PROTECTION DEVICE, | | | | |
| <u>(5)</u> | MODULE AND BASSE | PHOENIX CONTACT | 2907918 | | |
| $\frac{\langle 6 \rangle}{\langle 7 \rangle}$ | 10A CIRCUIT BREAKER | PHOENIX CONTACT | TMC 81B 10A | 1 | |
| <u>7</u> | 5A CIRCUIT BREAKER | PHOENIX CONTACT | TMC 81B 05A | 1 | |
| <u>(8)</u> | PANEL LIGHT LED | HOFFMAN | LEDA2A35 | 1 | |
| 9 | 120/240V LOAD CENTER | SCHNEIDER ELECTRIC | Q0816I100DTS | 1 | |
| (10) | PANEL HEATER 400 WATTS | HOFFMAN | DAH4001A | 1 | |
| (11) | POWER RECEPTACLE | COOPER | 817W | 1 | |
| (12) | WIRELESS MODEM | SIERRA | RV50X TRANSMITTER P/N: | 1 | |
| 13> | DIN RAIL MOUNTED TEMPERATURE TRANSMITTER C/W 3-WIRE TEMPERATURE SENSOR FOR PANEL TEMPERATURE | SIEMENS SITRANS TR320 | 7NG0320-0JA10- 0AA0 SENSOR: PT100 RTD (100mm) | 1 | |
| 14> | RELAY AND BASE, 120VVAC. SPDT W/ LED AND TEST BUTTON — POWER FAIL RELAY | OMRON | G2R-1-SNI-AC-1 20 (S), P2RF-05 | 2 | |
| (15) | DOUBLE LEVEL FUSED TERMINAL | PHOENIX CONTACT | 3044720 | Α/ | |
| (16) | FEED THROUGH TERMINAL BLOCK | PHOENIX CONTACT | 3046184 | Α/ | |
| (17) | FUSED TERMINAL BLOCK | PHOENIX CONTACT | 3046142 | Α/ | |
| 18> | END CLAMP | PHOENIX CONTACT | 1201442 | Α/ | |
| 19> | TERMINAL BLOCK IDENTIFIER | PHOENIX CONTACT | 1004348 | Α/ | |
| 20> | FUSED CONNECTOR | PHOENIX CONTACT | 3036806 | Α/ | |
| <u>(21)</u> | DISCONNECT SWITCH | PHOENIX CONTACT | 3046139 | Α/ | |
| (22) | POTENTIAL-EARTH TERMINAL | PHOENIX CONTACT | 3046207 | Α/ | |
| 23> | POTENTIAL-EARTH TERMINAL | PHOENIX CONTACT | 3046207 | Α/ | |
| 24> | TERMINAL END CLAMP — CLIPFIX | PHOENIX CONTACT | 3022218 | Α/ | |
| 25> | DOUBLE LEVEL ENDPLATE | PHOENIX CONTACT | 3022218 | Α/ | |
| 26> | GROUND BAR, 14 TAPS | ILSC0 | D167-14 | A/ | |
| 27 > | CELL ANTENNA | SIXNET | ANT-MA741ABI001 | 1 | |
| | CELL ANTENNA ENCLOSURE | HOOFMAN | CDS16128SS | 1 | |
| <u></u> | PANEL INTRUSION SWITCH | HONEYWELL | 968XTP | 1 | |
| 30> | 120/240V LOAD CENTER | SCHNEIDER ELECTRIC | Q0816I100DTS | 1 | |
| 31 | FILTER FAN W/ EXHAUST GRILLE | HOFFMAN | HF1316514 / | 1 | |
| 32 | RAINHOODS | HOFFMAN | HG1300504 RH60000N4GY | 1 | |
| 33> | DIN RAIL | _ | _ | A/ | |
| 34 | POWER SUPPLY 24VDC 10A | PHOENIX CONTACT | 2903149 | ~~~~ 1 | |
| 35) | HOFFMAN THERMOELECTRIC COOLER | HOFFMAN | TE121024020 | | |
| 36> | HOFFMAN THERMOELECTRIC COOLER CONTROL UNIT | HOFFMAN | TEC24VCNTLRN | 1 | |

SHEET 114 OF 120



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

ENGINEERING DIVISION

CONSTRUCTION OF A NEW WASTEWATER LIFT STATION — CENTREPORT SOUTH REGIONAL WATER AND WASTEWATER SERVICING PHASE 1A (CONTRACT 1A)

AUTOMATION

OFFTAKE STRUCTURE 3
PANEL LAYOUT, BILL OF MATERIALS & PLC CONTROL PANEL CP-F81

OFFTAKE STRUCTURE 3
PANEL LAYOUT, BILL OF MATERIALS & PLC CONTROL PANEL CP-F81

OFFTAKE STRUCTURE 3
SHEET 2 OF 2

BID OPPORTUNITY: 301-2024 FILE PATH: R: \
CONTRACT NUMBER: 1A FILE NAME: 1-0

FILE PATH: R:\Projects\2023\23-0107-009\Dwg\Elec\FILE NAME: 1-0241L-A0043-002.dwg

CONSULTANT DRAWING NUMBER

23-0107-009_A43.2