NOTES:

1. EQUIPMENT/ENCLOSURES SHOWN ARE BASIS OF DESIGN ONLY. SUBSTITUTIONS ARE ACCEPTABLE PROVIDED THE DIMENSIONS ARE EQUAL OR LESS THAN THOSE SHOWN AND FUNCTIONALITY MEETS OR EXCEEDS WHAT IS SHOWN.
2. OVERALL ENCLOSURE SHALL BE CUSTOM MADE TO THE DIMENSIONS SHOWN WITH A DEPTH OF 600mm. NEMA 4X RATED, LOCKABLE, DOUBLE DOOR WITH CONTINUOUS HINGE, INSULATED WITH FOIL COATED RIGID FOAM ON INTERIOR, AND SUITABLE FOR OUTDOOR USE. MANUFACTURER TO INCLUDE COOLING PROVISIONS AS SHOWN AND TO INCLUDE SPACE FOR WINTER TIME VENT CLOSING ON THE INTAKE AND EXHAUST.
3. ELECTRICAL ENCLOSURE MOUNTED ON A HOUSEKEEPING PAD 300mm HIGH CONSTRUCTED WITH 10MM REBAR AT 300mm ON CENTRE. AFFIX ELECTRICAL ENCLOSURE TO THE HOUSEKEEPING PAD USING HILTI KWIK BOLT 3 OR EQUAL.
4. INSTALL INTRUSION SWITCHES AS NEEDED FOR THE FINAL PANEL DOOR LAYOUT.

BILL OF MATERIALS

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	PLC CONTROL PANEL CP-G81	SEE DWG 1-0240G-A0002-001	--
2	5KVA, 600:120/240 TRANSFORMER	CANADA TRANSFORMER	SC5J-K/EP
3	120/240V LOAD CENTER	SCHNEIDER ELECTRIC	Q0816L100DTS
4	600V DISTRIBUTION PANEL	SCHNEIDER ELECTRIC	NF418L1C
5	MAIN BREAKER ENCLOSURE	SCHNEIDER ELECTRIC	J250SS
6	600V POWER FAIL RELAY ENCLOSURE	HOFFMAN	MHC150150120
7	INTRINSIC SAFETY PANEL JBA-G82	SEE DWG 1-0240G-A0010-001	--
8	CSO MONITORING PANEL	SEE DWG 1-0240G-A0011-001	--
9	P-G01 MOTOR STARTER ENCLOSURE	SCHNEIDER ELECTRIC	NEMA COMBINATION STARTERS
10	P-G02 MOTOR STARTER ENCLOSURE	SCHNEIDER ELECTRIC	NEMA COMBINATION STARTERS
11	7-JAW METER BASE	MICRO ELECTRIC	PL17-INTV-HQ
12	800W PANEL HEATER	HOFFMAN	DAH8002B
13	LOW PROFILE LED STRIP LIGHT	HOFFMAN	LED 24V15 W/ ALFSWD
14	EMERGENCY BATTERY PACK W/ TEST SWITCH AND LED STATUS INDICATORS	STANPRO	SLA-12100-0-WH-AT-ACTB
15	SURGE PROTECTION DEVICE 200kA, 600 VAC, 3ø, 4 WIRE	SCHNEIDER ELECTRIC	SSP08XDSE20A
16	PANEL INTRUSIONS SWITCH	HONEYWELL	968XTP
17	CELL ANTENNA ENCLOSURE	HOFFMAN	CSD16128SS
18	CELL ANTENNA	SIXNET	ANT-MA741ABI001

1 — ENCLOSURE FRONT LAYOUT
SCALE: 1:10

2 — ENCLOSURE REAR LAYOUT
SCALE: 1:10

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8	1-0240G-A0014-001	LOOP DRAWING - TT-G681
7	1-0240G-A0015-001	LOOP DRAWING - ESL-G711
6	1-0240G-A0016-001	LOOP DRAWING - XS-G712
5	1-0240G-A0002-001	PANEL LAYOUT AND BILL OF MATERIALS - CP-G81
4	1-0240G-A0010-001	PANEL LAYOUT AND BILL OF MATERIALS - JBA-G82
3	1-0240G-A0011-001	PANEL LAYOUT AND BILL OF MATERIALS - CSO MONITORING PANEL
2	1-0240G-E0010-001	ELECTRICAL GROUNDING DETAILS
1	1-0240G-E0004-001	ELECTRICAL VAULT LAYOUT

REFERENCE DRAWINGS

0 200 400 600 800 1000
SCALE: 1:10

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
UNLESS OTHERWISE NOTED

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE, A DIVISION OF ENGLOBE CORP.
No. 4968

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2024.03.15	

MPE a division of Englobe

DESIGNED BY J. SWAIN
CHECKED BY R. OFSTIE
DRAWN BY D. MCMILLAN
APPROVED BY R. OFSTIE
SCALE: AS SHOWN
HORIZONTAL
VERTICAL
RELEASED FOR CONSTRUCTION
DATE 2024-03-15
DATE
PLOT DATE: 2024 03 15

PROVINCE OF MANITOBA
R.G. OFSTIE
Member 44405
REGISTERED PROFESSIONAL ENGINEER
MARCH 18, 2024
CONSULTANT DRAWING NUMBER

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

RENFREW OUTFALL GATE CHAMBER
2024 UPGRADES
ELECTRICAL ENCLOSURE LAYOUT
DETAILS AND BILL OF MATERIALS

CITY DRAWING NUMBER 1-0240G-E0005-001
SHEET 18 OF 41

BID OPPORTUNITY: --
FILE PATH: M:\N-Data\84\00 City of Winnipeg\006 - Renfrew Outfall Gate Chamber Upgrades\AutoDesk\ACAD\
FILE NAME: e1.4 electrical enclosure layout.dwg