ENCLOSURE LAYOUT

2 / E1.1 1:10

RTU CABINET INTERIOR

1:5

COMMUNICATIONS ARCHITECTURE

5 / -- NTS

NOTES:

1. ENCLOSURE TO BE CONSTRUCTED USING 12 GAUGE STEEL, FINISHED WITH A GREY POWDER COAT. ENCLOSURE SHALL HAVE TWO DOORS CONTINUOUS HINGED WITH TWO POINT LOCKING HANDLES. DIMENSIONS SHALL BE A MINIMUM 2400X1750X600 AND INCLUDE ALL POWER DISTRIBUTION EQUIPMENT, CONTROLS, INSTRUMENTATION, PUMP STARTER, AND COMMUNICATION EQUIPMENT AND SHALL BE NEMA 4 RATED.

KEY NOTES:

1. MOUNT LEVEL TRANSMITTER DISPLAY ON FRONT DOOR OF RTU CABINET.
2. SEAL ENCLOSURE PENETRATION AROUND ANTENNA CABLE TO PREVENT WATER/MOISTURE INGRESS INTO THE ENCLOSURE.
3. REFER TO SPECIFICATION 40 94 43 FOR EQUIPMENT LIST.
4. OWNER SUPPLIED EQUIPMENT, CONTRACTOR TO INSTALL.

EQUIPMENT LIST

No.	DESCRIPTION
1	SERVICE ENTRANCE RATED 100A CIRCUIT BREAKER
2	MANITOBA HYDRO APPROVED METER SOCKET C/W SCREW TYPE SEALING RING
3	600V MAIN DISTRIBUTION PANEL
4	SURGE PROTECTION DEVICE (SPD)
5	120/240V PANEL
6	ENCLOSURE LUMINAIRE
7	RTU NEMA 12 RATED CABINET C/W LOCKING MECHANISM
8	THERMOSTATICALLY CONTROLLED HEATER
9	PUMP STARTER
10	SIEMENS MULTIRANGER 100
11	M580 PLC RACK
12	UNINTERRUPTIBLE POWER SUPPLY (UPS) AND BATTERY (24VDC)
14	CONTROL PANEL RECEPTACLE
15	RTU CABINET LOW TEMPERATURE ALARM
16	ANTENNA
17	WIRELESS MODEM
18	ENCLOSURE C/W DRAINAGE HOLE
19	TRANSFORMER
20	MOTION SWITCH FOR LUMINAIRE CONTROL
21	RTU CABINET LUMINAIRE
22	MOTOR LEAK/TEMPERATURE RELAY (MINICAS II)
23	20A MAINTENANCE RECEPTACLE
24	POWER LINE MONITOR (PLM)

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE ENGINEERING
No. 5643

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.

2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR TENDER	2019-09-10	M.J.B.

MPE Engineering Ltd.

DESIGNED BY	D.G.	CHECKED BY	D.J.H.
DRAWN BY	N.O.W.	APPROVED BY	P.P.G.
SCALE: HORIZONTAL	1:10	RELEASED FOR CONSTRUCTION	
VERTICAL			
DATE	2019-9-11	DATE	

PLOT DATE: 2019 09 16

ORIGINAL SEALED BY PETER GOERTZEN 2019-09-16

CONSULTANT DRAWING NUMBER E1.4

BID OPPORTUNITY: 913-2019

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

BURROWS OUTFALL GATE CHAMBER UPGRADES

ELECTRICAL ENCLOSURE LAYOUT

CITY DRAWING NUMBER 1-03000-E0005-001 SHEET 17 OF 20

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FILE NAME: E1.4 Enclosure Layout.dwg