LOWER PLAN
1:50

UPPER PLAN
1:50

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. SUBMIT DEWATERING PLAN PRIOR TO COMMENCEMENT OF WORK. REFER TO TREK GEOTECHNICAL REPORT.
3. FIELD VERIFY ALL DIMENSIONS. NOTE ANY DISCREPANCIES WITH ENGINEER PRIOR TO CONSTRUCTION.
4. DEMO EXISTING GATE AND FLANGE. INFILL FLANGE OPENING.
5. ALL EXPOSED CONCRETE CORNERS TO RECEIVE A 20mm CHAMFER AT TIME OF POUR. DO NOT GRIND CHAMFER.
6. REMOVE AND DISPOSE OF EXISTING SLUICE GATE AFTER INSTALLATION AND SUCCESSFUL OPERATION OF NEW SLUICE GATE.
7. CORE REQUIRED SIZE HOLE FOR 150Φ DISCHARGE PIPE. GROUT ANNULAR SPACE AROUND PIPE ON OUTSIDE OF WALL (TYPICAL).
8. FILL EXISTING SLUICE GATE KEY WITH CONCRETE ONCE SLUICE GATE DEMOLITION IS COMPLETE.
9. 300 CONCRETE WALL TO EXTEND FULL WIDTH OF THE CELL.
10. ROUGHEN TO 5mm AMPLITUDE AND CLEAN EXISTING CONCRETE INTERFACE PRIOR TO NEW POUR.
11. INSTALL VOLCLAY RX-101 WATERSTOP AROUND PERIMETER OF OPENING.
12. FILL VOID WITH GROUT.
13. STEM GUIDES NUMBER AND SPACING PROVIDED BY GATE MANUFACTURER.
14. CUT EXISTING SRS 2400 CONC FLUSH WITH CHAMBER WALL. REMOVE AND DISPOSE OLD PIPING AND CONCRETE.
15. INSTALLATION OF FLAP GATE TO BE DONE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
16. INSTALLATION OF SLUICE GATE AND ANCHORS TO BE DONE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
17. CONTRACTOR TO SAWCUT EXISTING WALL TO SUIT GATE OPENING.
18. SLUICE GATE AND FLAP GATE SUPPLIED BY THE CITY.
19. CONTRACTOR TO PROTECT EXISTING PIPE AND VAULT DURING CONSTRUCTION.
20. PROVIDE 2-COATS BITUMEN TO ALL EXTERIOR SURFACE OF BELOW GRADE CONCRETE.

CONCRETE MIX DESIGN
- EXPOSURE CLASS: S-1
- MINIMUM 28 DAY COMPRESSIVE STRENGTH: 32MPa
- SLUMP 80 ±20mm
- AIR CONTENT: 4%-7%

DESIGN LOADS (KPa)

	LIVE	DEAD
SNOW	1.9	
LIVE	3.6	
EQUIPMENT		1.2
SURCHARGE	12.0	

A -- 1:50

B -- 1:50

C -- 1:50

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	1:50	RELEASED FOR CONSTRUCTION	
VERTICAL	1:50		
DATE	2019-9-11	DATE	

PLOT DATE: 2019 09 18

ORIGINAL SEALED BY MARK J. BAKER 2019-09-16

CONSULTANT DRAWING NUMBER
S1.1

BID OPPORTUNITY: 913-2019

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

BURROWS OUTFALL GATE CHAMBER UPGRADES
CONCRETE-SHEET 1 OF 2

CITY DRAWING NUMBER 1-03000-S0001-001 | SHEET 4 OF 20

FILE PATH: N:\84\00 City of Winnipeg\002 - Burrows Outfall Gate Chamberts Upgrades\Autodesk\ACAD\
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