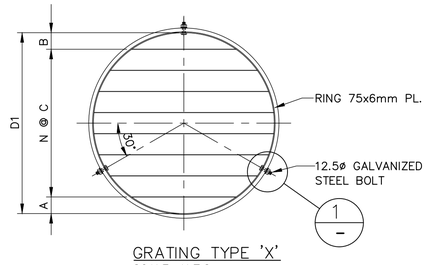
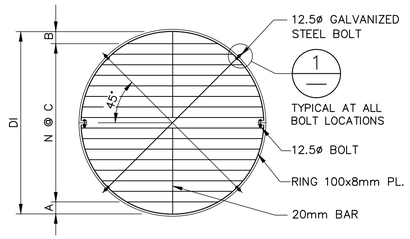
OUTFALL DEBRIS GRATE											
LOCATION	PIPE		END CONDITION	GRATING							
	DIAMETER D	MATERIAL		DIAMETER D1	TYPE	BAR DIA.	A	B	C	N	WEIGHT (lbs)
6353 SOUTHBOINE DRIVE OUTFALL	600	CSP	1	588±	X	15	150	138	150	2	22
16 UXBRIDGE ROAD OUTFALL	1050	CSP	1	1035±	X	20	150	135	150	5	
27 RIVERGATE DRIVE OUTFALL	1400	CSP	1	1384±	Y	20	180	184	170	6	110
CHURCHILL DR & OSBORNE ST OUTFALL	1800	CSP	1	1794±	Y	20	159	150	135	11	178
499 TYLEHURST STREET OUTFALL	2300	CSP	1	2235±	Y	25	145	130	140	14	338

NOTE:

1. ALL PLATES AND BARS ARE CSA G40.21–300W.
2. ALL COMPONENTS ARE GALVANIZED.
3. ALL BOLTS TO BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A320 GRADE B8M



GRATING TYPE 'X'
SCALE: N.T.S.



GRATING TYPE 'Y'
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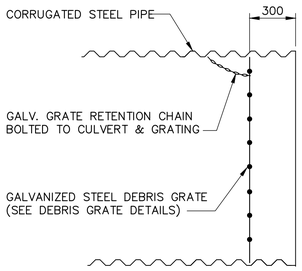
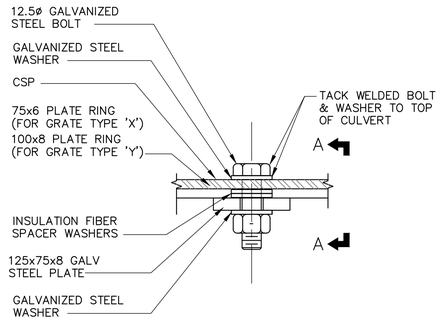
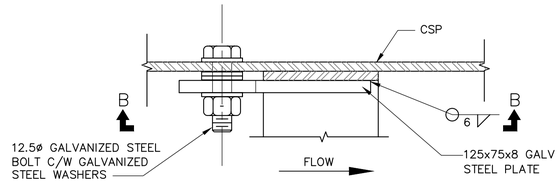


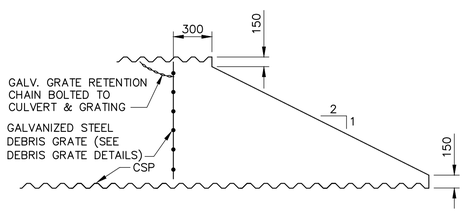
PIPE END CONDITION–1
SCALE: N.T.S.



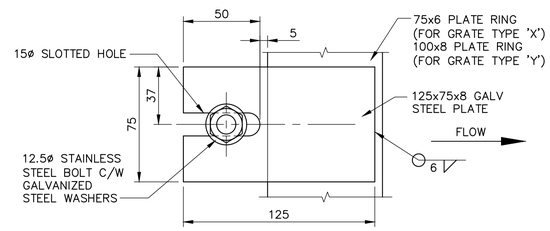
1 DETAIL
SCALE: 1:2



SECTION A–A
SCALE: 1:2



PIPE END CONDITION–2
SCALE: N.T.S.



SECTION B–B
SCALE: 1:2

DEBRIS GRATE DETAILS
SCALE: N.T.S.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

FOR INDEX PAGE SEE DWG 1–03030–D0013–001

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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
0	ISSUED FOR TENDER	2022 12 02	RBO

KGS GROUP

DESIGNED BY	NGV	CHECKED BY	RBO
DRAWN BY	GEL	APPROVED BY	
SCALE: HORIZONTAL	AS NOTED	RELEASED FOR CONSTRUCTION	
VERTICAL	NA		
DATE	2022 12 02	DATE	

PLOT DATE: 2022 12 02

ENGINEER'S SEAL
PROVINCE OF MANITOBA — 2022-12-02 — R. B. OFFMAN — Member — 22701 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
1–03030–C0076–001

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2022 OUTFALL PROGRAM

MISCELLANEOUS DETAILS
SHEET 2

SHEET 12 OF 12

CITY DRAWING NUMBER
1–03030–C0076–001

BID OPPORTUNITY: 910–2022

FILE PATH: P:\Projects\2022\22-0107-013\Dwg\Mun\