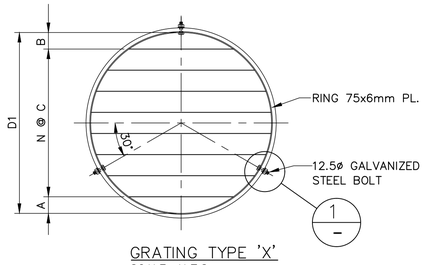
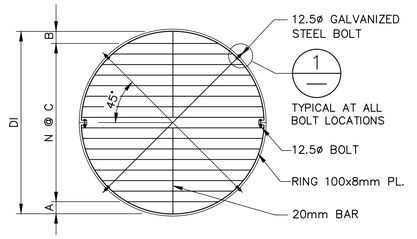
OUTFALL DEBRIS GRATE											
LOCATION	PIPE		END CONDITION	GRATING							
	DIAMETER D	MATERIAL		DIAMETER D1	TYPE	BAR DIA.	A	B	C	N	WEIGHT (lbs)
KINGSTON ROW/DUNKIRK DR OUTFALL 3145 NESS AVENUE OUTFALL B	600	CSP	1	588±	X	15	150	138	150	2	22
937 WELLINGTON CRESCENT OUTFALL	750	CSP	1	735±	X	15	150	90	135	3	25
143 KINGSTON ROW OUTFALL ASSINIBOINE CR/WINDHAM RD OUTFALL 300 BREDIN DRIVE OUTFALL	900	CSP	1	885±	X	20	150	75	165	4	42
3145 NESS AVENUE OUTFALL A	1200	CSP	1	1185±	Y	20	145	150	130	7	72
GRANITE WAY OUTFALL BARKER BOULEVARD OUTFALL	1800	SPCSP	1	1794±	Y	20	159	150	135	11	178
242 METCALFE AVENUE OUTFALL	2100	SPCSP	1	2085±	Y	25	140	140	140	13	319

NOTE:

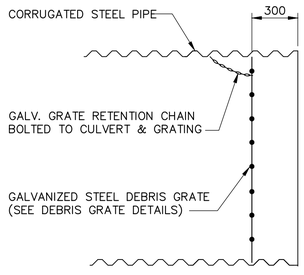
1. ALL PLATES AND BARS ARE CSA G40.21–300W.
2. ALL COMPONENTS ARE GALVANIZED.
3. ALL BOLTS TO BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A320 GRADE B8M



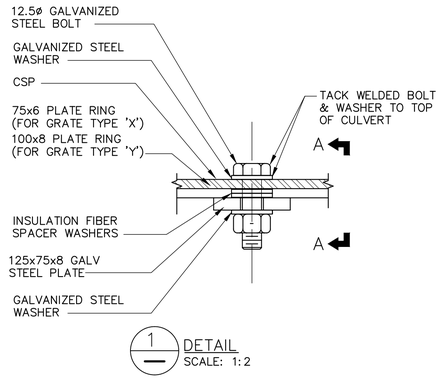
GRATING TYPE 'X'
SCALE: N.T.S.



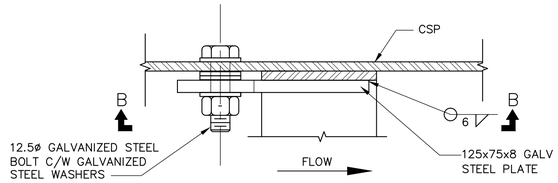
GRATING TYPE 'Y'
SCALE: N.T.S.



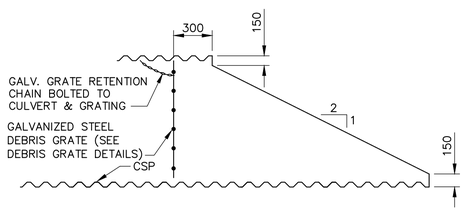
PIPE END CONDITION–1
SCALE: N.T.S.



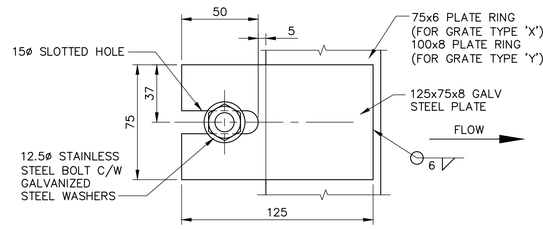
SCALE: 1:2



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.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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	2021 11 05	RBO

KGS GROUP

DESIGNED BY	NGV	CHECKED BY	RBO
DRAWN BY	GEL	APPROVED BY	RBO
SCALE: HORIZONTAL	AS NOTED	RELEASED FOR CONSTRUCTION	
VERTICAL	NA		
DATE	2021 11 04	DATE	

PLOT DATE: 2021 11 04

ENGINEER'S SEAL

PROVINCE OF MANITOBA
2021-11-05
R. B. OFFMAN
Member
22701
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
1–03030–C0062–002

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

FOR INDEX PAGE SEE DWG 1–03030–D0009–001

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2020–2021 OUTFALL PROGRAM
CONTRACT 2

MISCELLANEOUS DETAILS
SHEET 2

SHEET 26 OF 26

CITY DRAWING NUMBER
1–03030–C0062–002

BID OPPORTUNITY: 628–2021

FILE PATH: P:\Projects\2020\20–0107–010\Dwg\Mun\