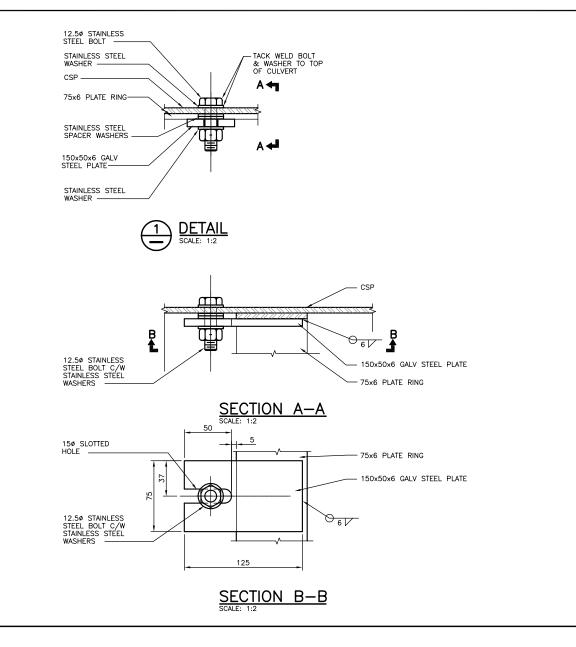


GRATING TYPE 'Y' SCALE: N.T.S.

	OUTFALL DEBRIS GRATING											
	LOCATION	PIPE		END	GRATING							
*		DIAMETER D	MATERIAL	CONDITION	DIAMETER D1	TYPE	BAR DIA.	Α	В	С	N	WEIGHT (lbs)
	ARCHIBALD ST. U/P (RR-68)	750	CSP	1	735±	Х	15	150	90	135	3	25
	LARCHDALE CRES. (RR-96)	1050	CSP	N/A	1035±	Х	20	150	225	165	4	60
	DUNKIRK DR. (RR-31)	1350	CSP	1	1335	х	20	150	240	135	7	90
	VALHALLA DR. (RR-103)	1660	SPCSP	1	1645	Х	20	150	150	135	10	145

- ALL PLATES AND BARS ARE CSA G40.21-300W.
 ALL COMPONENTS ARE GALVANIZED.
 ALL BOLTS TO BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A320 GRADE BBM
- * 4. THE CONTRACTOR TO CONFIRM THE CULVERT DIAMETER LARCHDALE CRES. PRIOR TO FABRICATION

STANDARD GRATING AND END CONDITION DETAILS



WARNING

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

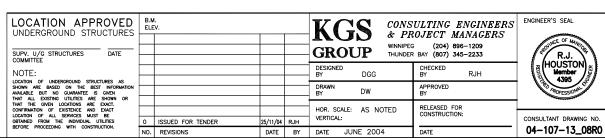
1) MOITEY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

KGS Group

No. 245 Expiry: April 30, 2005







THE CITY OF WINNIPEG WATER & WASTE DEPARTMENT

2004 OUTFALL REPAIRS

DEBRIS GRATE DETAILS

09 80 03-107-13

LD-3080