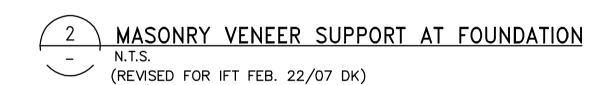
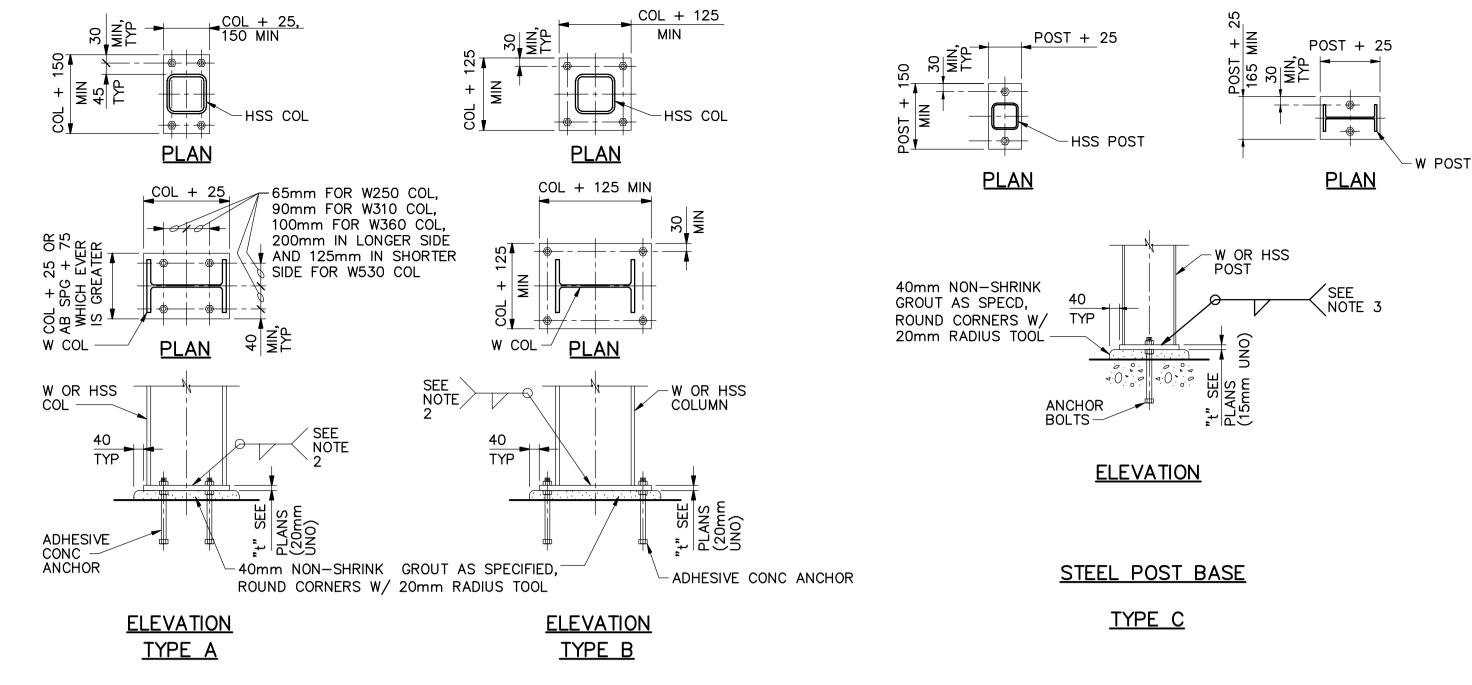


NOTE:

- 1. TYPICAL AROUND ENTIRE STRUCTURE.
- 2. T.O.S. ELEVATION VARIES, COORDINATE WITH ARCHITECTURAL DRAWINGS.





NOTES:

- 1. UNLESS OTHERWISE NOTED, ADHESIVE CONC ANCHORS SHALL BE 20mm DIA x REQUIRED WITH LEVELING NUTS AND 300mm MINIMUM EMBED AND BASEPLATES SHALL BE CENTERED ON COLUMN.
- 2. WELD SIZE SHALL BE DETERMINED BY THE THICKEST MEMBER JOINED; MINIMUM WELD SIZE SHALL BE 5mm FILLET FOR MATERIAL THICKNESSES UP TO AND INCLUDING 15mm, 6mm FILLET FOR THICKNESSES OVER 15mm TO 20mm, AND 8mm FILLET FOR MATERIAL THICKNESSES OVER 20mm. ALL WELDS SHALL BE SINGLE—PASS WELDS.
- 3. USE OF 2 BOLT STEEL POST BASEPLATE ANCHORAGE DETAIL SHOWN SHALL BE LIMITED TO STEEL SUPPORT MEMBERS WEIGHING LESS THAN 135kg.

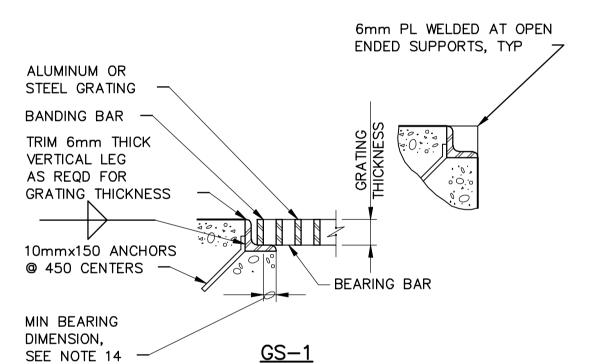


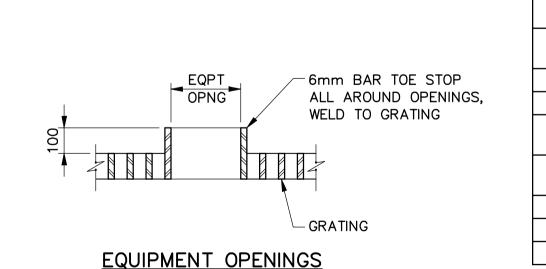
GENERAL NOTES:

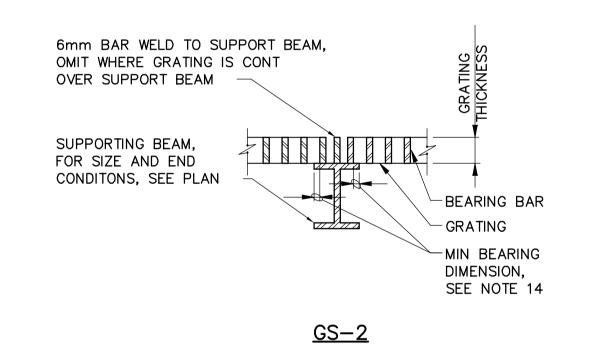
- 1. NOT USED
- 2. NOT USED
- 3. GRATING SPAN SEE PLAN.4. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 900mm.
- 5 SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMIT
- 5. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR PRIOR TO FABRICATION.

NOT IN USE

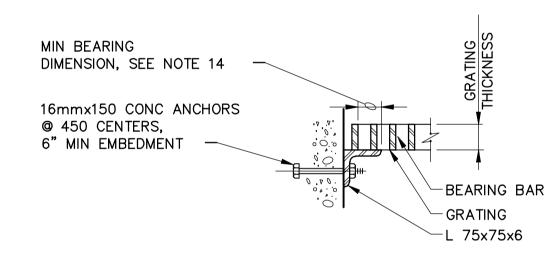
- 6. MATERIAL FOR SUPPORTS OF STEEL AND ALUMINUM GRATING TO BE SAME AS GRATING, EXCEPT METAL SUPPORTS THAT ARE TO BE EMBEDDED IN CONCRETE SHALL BE TYPE 316 STAINLESS STEEL.
- 7. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
- 8. BEARING BAR THICKNESS FOR GRATING TO BE 5mm MINIMUM.
- BAND ALL EDGES WITH 5mm x DEPTH OF BEARING BAR.
 PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
- 11. TYPE OF MATERIAL USED SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED. THIS STANDARD DETAIL INCLUDES 2 TYPES, ALTHOUGH BOTH MAY NOT BE INCLUDED IN PROJECT.
- 12. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 6mm NOR GREATER THAN 13mm AND AS SPECIFIED.
- 13. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS AS SPECIFIED.
- 14. MIN BEARING HORIZONTAL DIMENSION = 25mm FOR GRATING DEPTH 57mm OR LESS, MIN BEARING HORIZONTAL = 50mm FOR GRATING DEPTH GREATER THAN 57mm







HEAVY VEHICULAR TRAFFIC (HS 20-44) MAXIMUM STEEL ALUMINUM SPAN 300 51x4.8 500 64x6.4 600 64x9.5 OR 76x6.4 DO NOT USE 750 76x9.5 OR ALUMINUM GRATING 102x6.4 1000 89x9.5 1200 102x9.5 1500 114x9.5



NOTE:

USE GS-3 ONLY FOR FOOT TRAFFIC GRATING.

<u>GS-3</u>

	HT VEHICULAR TRAI	
MAXIMUM SPAN	STEEL	ALUMINUM
300	44x4.8	44×4.8
450	44x4.8	44×4.8
600	51x4.8	51x4.8
750	57x4.8	57×4.8
900	64x4.8	64×4.8
1200	64x6.4	
1500	64x9.5	DO NOT USE ALUMINUM
1800	64x9.5	GRATING
2100	76×9.5	

F	FOOT TRAFFIC						
GRATING THICKNESS TABLE							
MAXIMUM SPAN	ALUMINUM	STEEL					
1050	32	25					
1200	38	25					
1350	44	25					
1500	44	32					
1650	51	32					
1800	57	38					
1950	57	38					
2100	64	44					

VEHICULAR TRAFFIC NOTE:

STEEL GRATING BEARING BARS FOR VEHICULAR TRAFFIC SHALL BE SPACED AT 48mm OC; ALUMINUM GRATING BEARING BARS FOR VEHICULAR TRAFFIC SHALL BE SPACED AT 30mm OC.

SERRATED BEARING BARS:

INCREASE GRATING THICKNESSES SHOWN IN TABLES BY 6mm FOR GRATING WITH SERRATED SLIP RESISTANT SURFACES.



										ENONEED'S SEAL	Г
	B.M ELE						CH2MHILL	(a)	EarthTech	ENGINEER'S SEAL	
APEGT							rickson Cooper		A Tyco International Ltd. Company	ORIGINAL SIGNED BY	
Certificate of Authorization						DESIGNED BY	МН	CHECKEI BY	O AP	D. KRUGER	
CH2M HILL Canada Ltd.						DRAWN BY	CR	APPROVE BY	ED AHL	2007/01/31	ς
No. 1441 Expiry: April 30, 2007						SCALE:	NTS	RELEASE CONSTRU	ED FOR JCTION BY:		Ĭ
	00	ISSUED FOR TE	ENDER	07/01/31	мн				SOROKOWSKI	CONSULTANT DRAWING NO.	l
	NO.	REVISIONS		DATE	BY	DATE	2006/08/22	DATE	2007/01/31	WJ-S0455	l

THE CITY OF WINNIPEG Winnipeg WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

WATER TREATMENT PLANT
SODIUM HYPOCHLORITE BUILDING
SODIUM HYPOCHLORITE AND CHEMICAL STORAGE BUILDINGS

CITY FILE NUMBER
STRUCTURAL
CITY DRAWING NUMBER

STRUCTURAL

SODIUM HYPOCHLORITE BUILDING
STANDARD DETAILS

1-0601J-A-S0455-001-00D