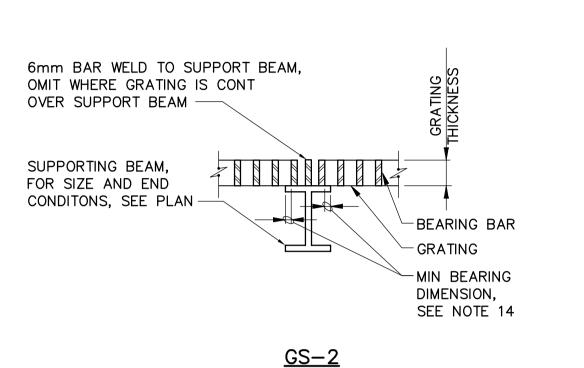
GENERAL NOTES:

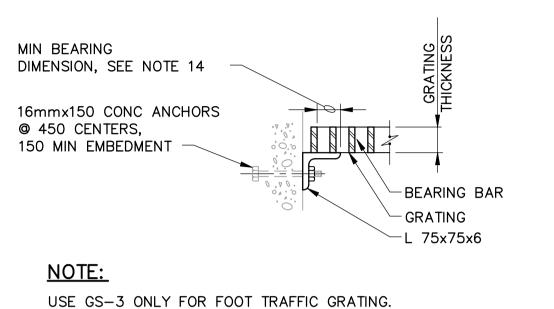
- 1. EXTEND GRATING CONTINUOUSLY OVER GATE GUIDES AND GATES.
- 2. NOTCH GRATING SUPPORTS AT GATES AS REQUIRED.
- 3. GRATING SPAN —— SEE PLAN.
- 4. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 900mm.
- 5. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR PRIOR TO FABRICATION.
- 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 4.8mm 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

HEA	VY VEHICULAR TRA	FFIC
MAXIMUM	BEARING BARS	
SPAN (mm)	STEEL	ALUMINUM
300	51x4.8	
500	64x6.4	
600	64x9.5 OR 76x6.4	DO NOT USE
750	76x9.5 OR 102x6.4	ALUMINUM GRATING
1000	89x9.5	
1200	102x9.5	
1500	114×9.5	

	SHT VEHICULAR TR HEEL LOAD = 900 kg OF	
MAXIMUM	BEARING BARS	
SPAN (mm)	STEEL	ALUMINUM
300	44x4.8	44x4.8
450	44x4.8	44x4.8
600	51x4.8	51x4.8
750	57x4.8	57x4.8
900	64x4.8	64x4.8
1200	64×6.4	
1500	64x9.5	DO NOT USE ALUMINUM
1800	64x9.5	GRATING
2100	76x9.5	

	FOOT TRAFFIC	
GR.	ATING THICKNESS TA	ABLE
MAXIMUM SPAN (mm)	ALUMINUM (mm)	STEEL (mm)
1050	32	25
1200	38	25
1350	44	25
1500	44	32
1650	51	32
1800	57	38
1950	57	38
2100	64	44

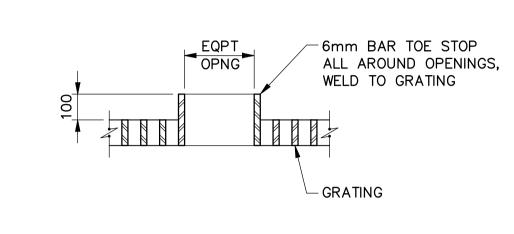




<u>GS-3</u>

00 ISSUED FOR TENDER

NO. REVISIONS



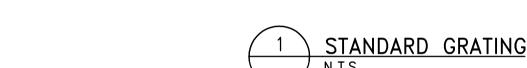
EQUIPMENT OPENINGS

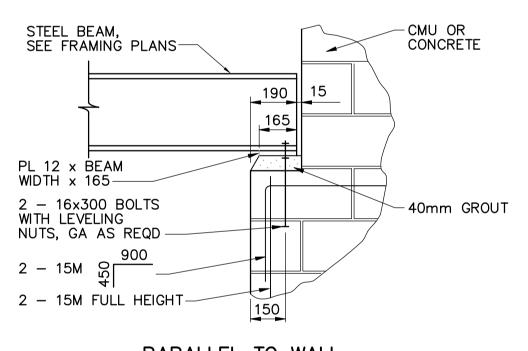
VEHICULAR TRAFFIC NOTE:

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.

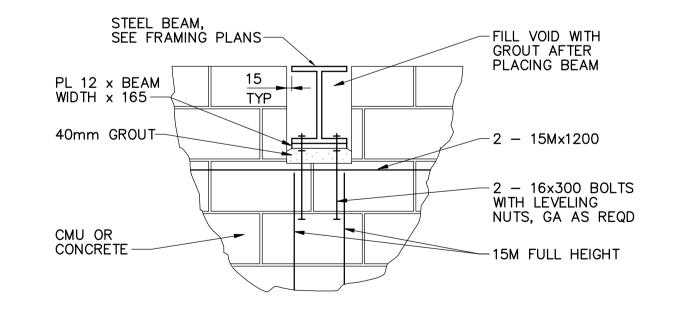
SERRATED BEARING BARS:

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

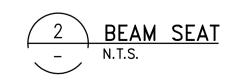


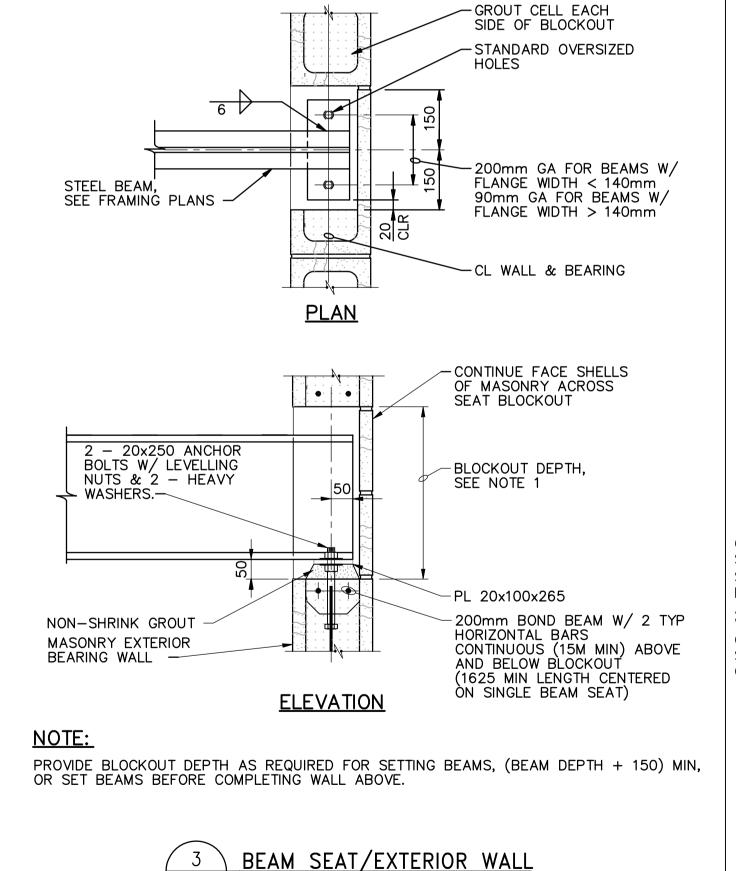


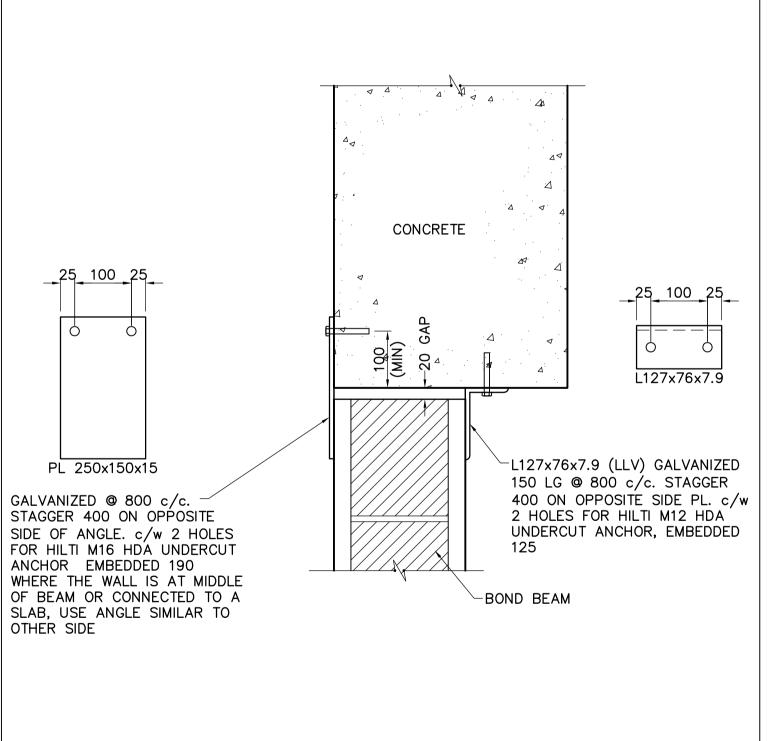
PARALLEL TO WALL



PERPENDICULAR TO WALL



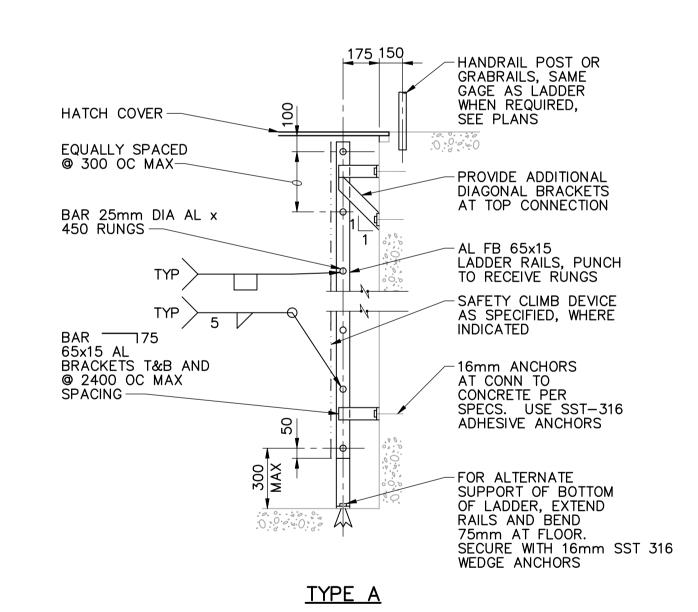




CMU WALL CONNECTION AT TOP

R. SOROKOWSKI

DATE 2007/05/06

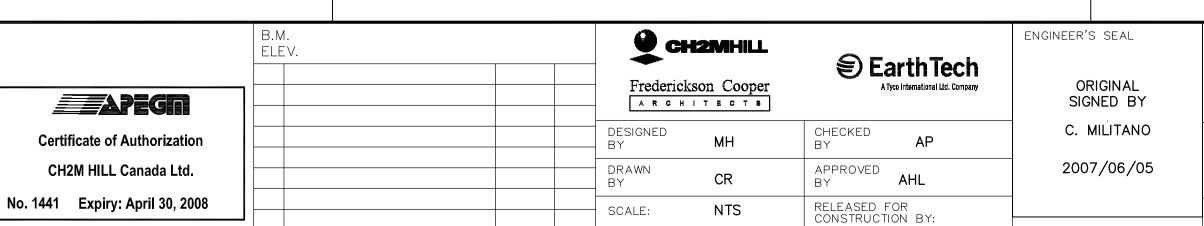


NOTE:

1. PROVIDE PROTECTION FOR ALUMINUM IN CONTACT WITH CONCRETE AS SPECIFIED.

5 FLAT BAR LADDER UNDER COVER-ALUMINUM

N.T.S.



DATE

2007/06/05

|07/06/05| MH

DATE BY

N.T.S.

ORIGINAL SIGNED BY

C. MILITANO

WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
MAIN BUILDING
OFFICE AND PLANT INTERIOR FINISHES

CONSULTANT DRAWING NO.
WB-S4453

WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

SHEET OF

CITY DRAWING NUMBER
1-0601B-A-S4453-001-000

THE CITY OF WINNIPEG