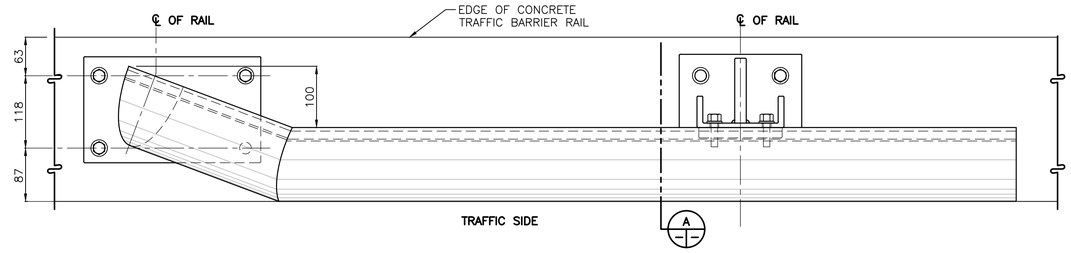
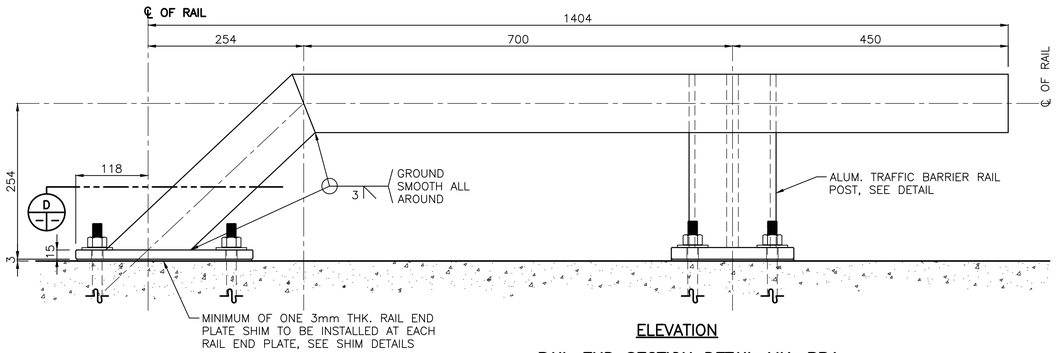
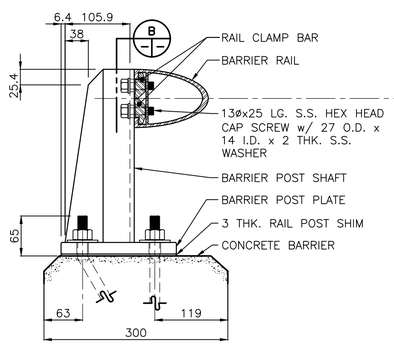


PLAN

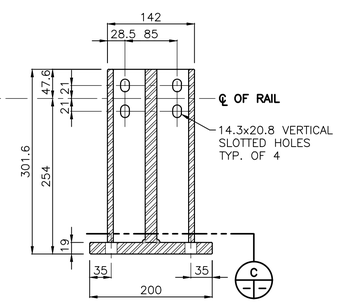


ELEVATION

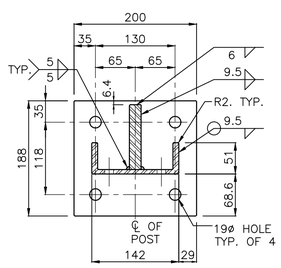
RAIL END SECTION DETAIL MK. BR1
1:5



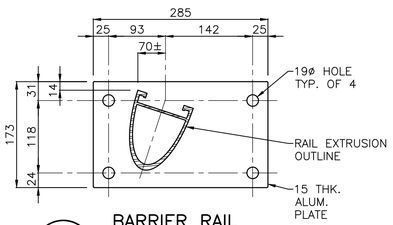
A TRAFFIC BARRIER RAIL POST
1:5



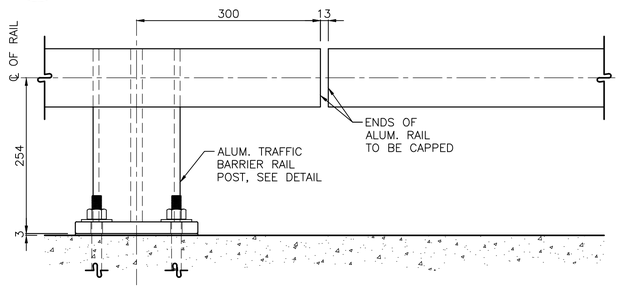
B SECTION
1:5



C BARRIER POST PLATE SECTION
1:5

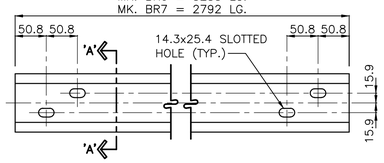


D BARRIER RAIL END PLATE SECTION
1:5

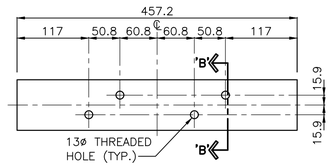


F TYPICAL DETAIL
15 17 1:5

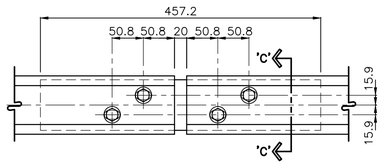
MK. BR2 = 3600 LG.
MK. BR3 = 2980 LG.
MK. BR4 = 3060 LG.
MK. BR5 = 5060 LG.
MK. BR6 = 3255 LG.
MK. BR7 = 2792 LG.



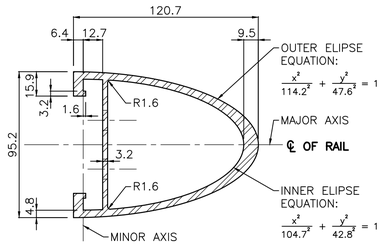
BARRIER RAIL DETAIL
MK. BR2 TO BR7
1:5



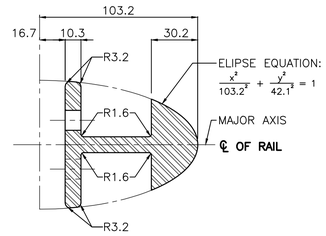
SPLICE BAR DETAIL
1:5



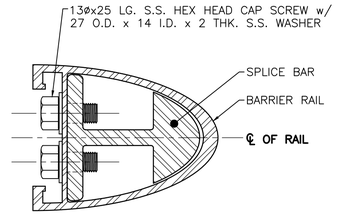
SPLICE BAR TO BARRIER RAIL ASSEMBLY
1:5



SECTION A–A
1:2

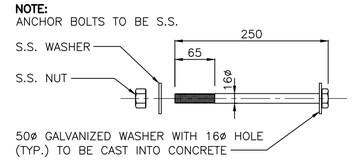


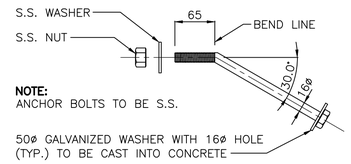
SECTION B–B
1:2



SECTION C–C
1:2

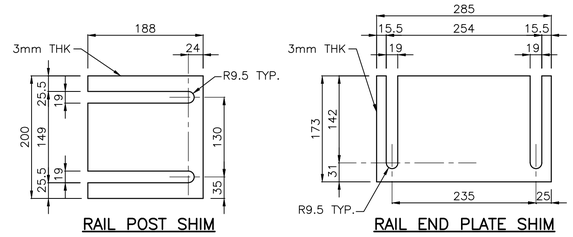
NOTE:
ANCHOR BOLTS TO BE S.S.





NOTE:
ANCHOR BOLTS TO BE S.S.

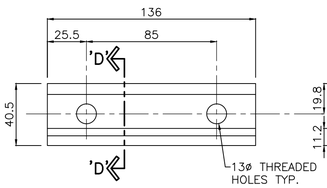
ANCHOR BOLT DETAIL
1:5



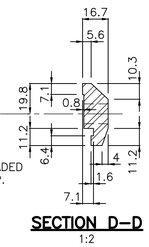
RAIL POST SHIM

RAIL END PLATE SHIM

SHIM DETAILS
1:5



RAIL CLAMP BAR DETAIL
1:2



SECTION D–D
1:2

NOTES:

1. THE 4–19ø mm HOLES IN THE BARRIER POST AND RAIL PLATES ARE DESIGNED TO ACCOMMODATE 16ø mm RAIL POST ANCHOR BOLTS AS DETAILED. SUPPLY WITH EACH ANCHOR BOLT: ONE S.S. PLAIN WASHER, ONE S.S. LOCK WASHER, ONE S.S. HEX. NUT AND ONE 50ø GALVANIZED PLATE WASHER.
2. A COMBINATION OF 1.5, 3.0 AND/OR 6.0mm THK. ALUM. RAIL POST PLATE SHIMS WERE USED AS REQUIRED TO SET THE BARRIER RAIL TO THE SPECIFIED HEIGHT (MINIMUM 3 THK. SHIM REQUIRED AT EACH POST OR PLATE).
3. ALL EDGES AND CORNERS OF THE BARRIER POST PLATES AND EXTRUSIONS WERE ROUNDED IN THE SHOP, TO A SMOOTH 2mm RADIUS TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
4. BOTTOM SURFACE OF THE SHIM (SURFACE IN CONTACT WITH CONCRETE) WAS PAINTED WITH 2 COATS OF ALKALI RESISTANT BITUMINOUS PAINT, EACH COAT BEING 1mm IN THICKNESS.

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

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	19.09.18	J.M.B.

Stantec
500 - 311 Portage Avenue, Winnipeg MB Canada
www.stantec.com

DESIGNED BY	H.M.V.	CHECKED BY	C.D.
DRAWN BY	J.M.B.	APPROVED BY	K.S.A.
HOR. SCALE: VERTICAL:	1:50 OR AS NOTED	RELEASED FOR CONSTRUCTION:	
DATE	2019.09.18	DATE	

ENGINEER'S SEAL

TENDER DRAWING
NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO.
S-114

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

DUBLIN AVENUE BRIDGE REPLACEMENT
PROPOSED BRIDGE STRUCTURE
ALUMINUM GUARDRAIL DETAILS

SHEET 17 OF 48
CAD FILE DRAWING NUMBER 33340s-114-926.dwg
CITY DRAWING NUMBER B105-19-17

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2019/09/18 3:06 PM By: Hsu, Jake