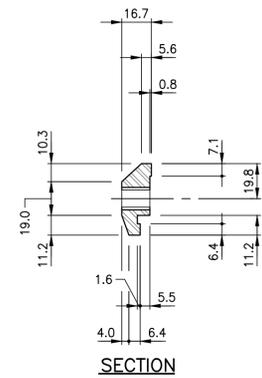
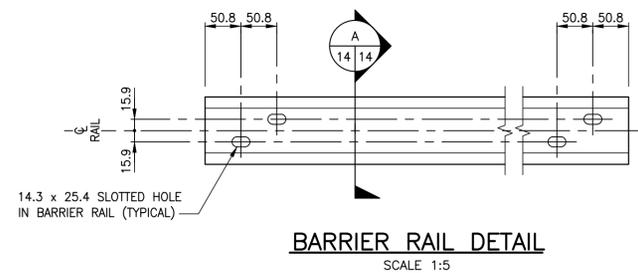
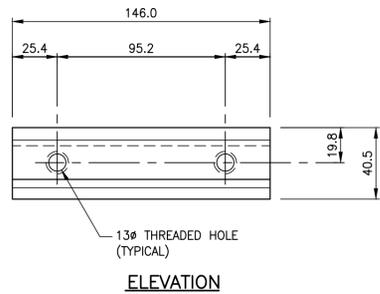


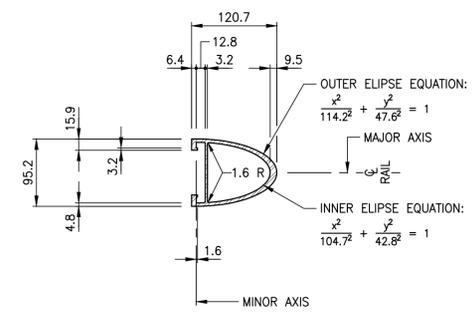
A1 SIZE (594 mm x 841 mm)  
 Plotted: November 24, 2017 at 10:35:50 AM | Last saved by: Paterson  
 File: F:\2017\17M-0806-00 - Truro Creek Culvert Replacements\MM Drawings\17M-0806-00 Truro Creek Culvert Replacements DD Linwood 13 14 top rails.dwg | Layout: 14 Aluminum Top Rail Details (Sheet 2 of 2)



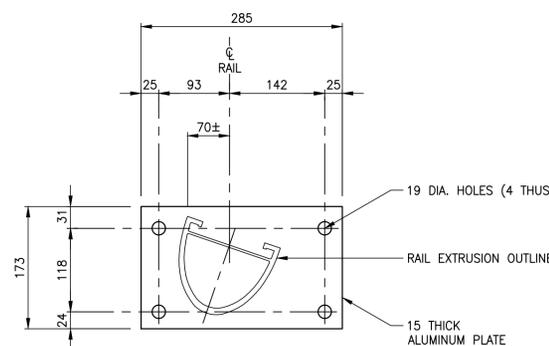
**RAIL CLAMP BAR**  
SCALE 1:2



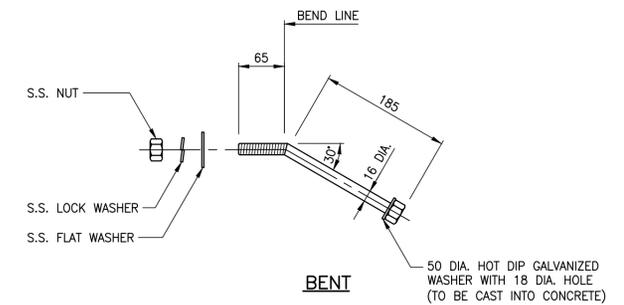
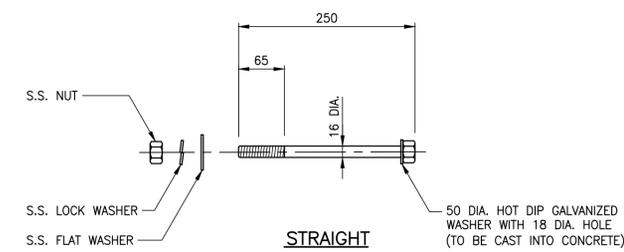
**BARRIER RAIL DETAIL**  
SCALE 1:5



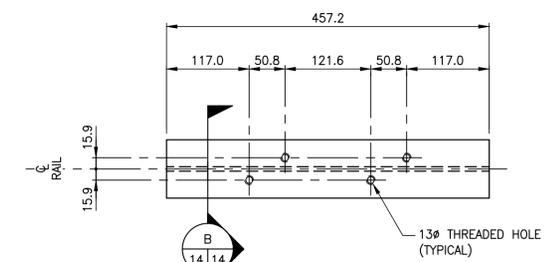
**SECTION A**  
SCALE 1:5



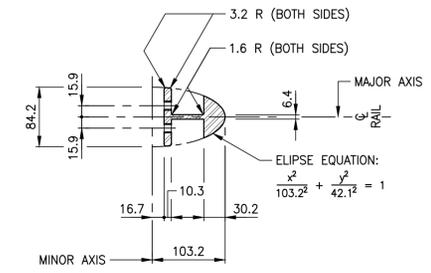
**RAIL END PLATE DETAIL**  
SCALE 1:5



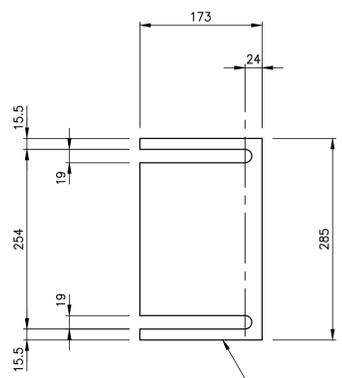
**ANCHOR BOLT DETAILS**  
FOR RAIL POSTS AND RAIL END PLATE  
SCALE 1:5



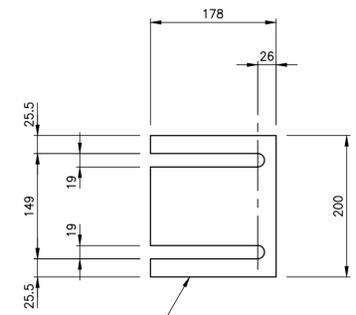
**SPlice BAR DETAIL**  
SCALE 1:5



**SECTION B**  
SCALE 1:5

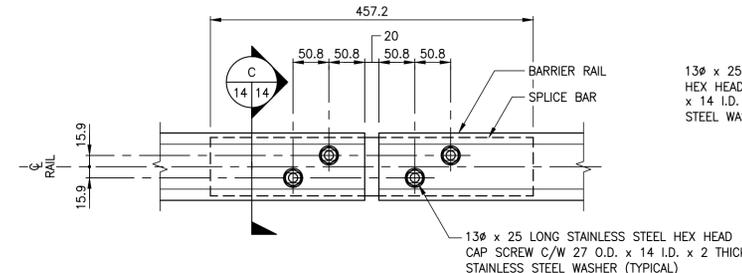


**RAIL END PLATE SHIM**

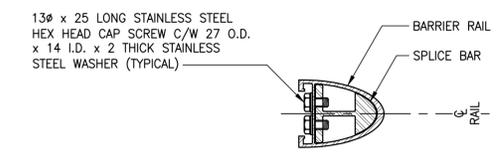


**RAIL POST SHIM**

**SHIM DETAILS**  
SCALE 1:5



**SPlice BAR TO BARRIER RAIL ASSEMBLY DETAIL**  
SCALE 1:5



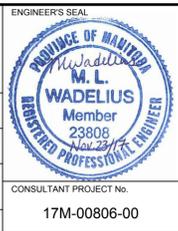
**SECTION C**  
SCALE 1:5

ALUMINUM SHIMS IN 1.5, 3.0 AND 6.9 mm THICKNESSES. MINIMUM SHIM OF 3.0 mm AT EACH RAIL POST OR RAIL END PLATE



LOCATIONS APPROVED UNDERGROUND STRUCTURES		G.B.M. = TOP NUT OF FIRST HYDRANT SOUTH OF INTERSECTION BETWEEN NESS AVENUE AND LINWOOD STREET	
ELEV. = 233.659			
SIGNED BY:	DATE		
SUPV/UG STRUCTURES			
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 EXISTANCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING			
0	ISSUED FOR TENDER	17.11.23	JL
No.	REVISIONS	DATE	BY

<b>wsp</b>		WSP Canada Group Limited 93 Lombard Avenue, Suite 111 Winnipeg MB R3B 3B1 T+ 1 204-943-3178 F+ 1 204-943-4948 www.wsp.com	
DESIGNED BY	AG	CHECKED BY	MLW
DRAWN BY	CP	APPROVED BY	JL
HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
VERTICAL	AS NOTED		
0	ISSUED FOR TENDER	17.11.23	JL



**METRIC**  
ALL MEASUREMENTS IN MILLIMETRES UNLESS OTHERWISE STATED

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

**TRURO CREEK CULVERT REPLACEMENT AT LINWOOD STREET**

ALUMINUM TOP RAIL DETAILS (SHEET 2 OF 2)

CITY DRAWING NUMBER	C321-17-14
BID OPPORTUNITY NUMBER	1014-2017
SHEET OF	14 19
REV	0

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.