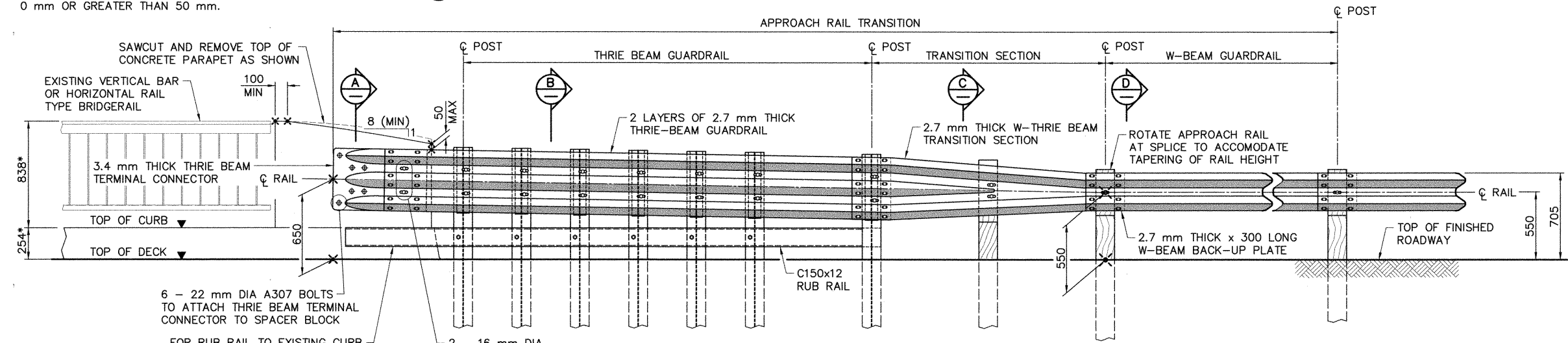
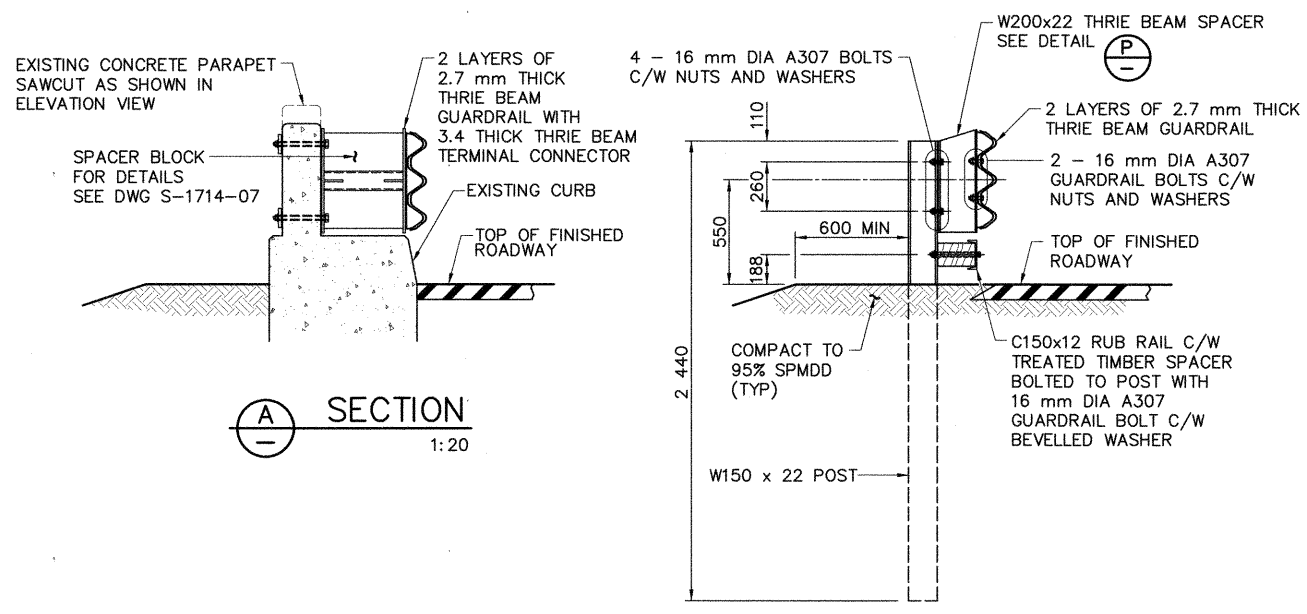


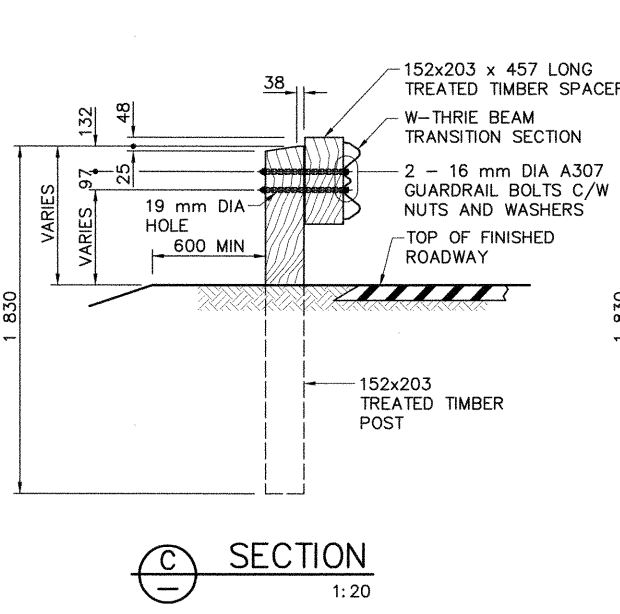
APPROACH RAIL TRANSITION PLAN
(TYPICAL AT TWO APPROACH CORNERS OF BRIDGE) 1:20



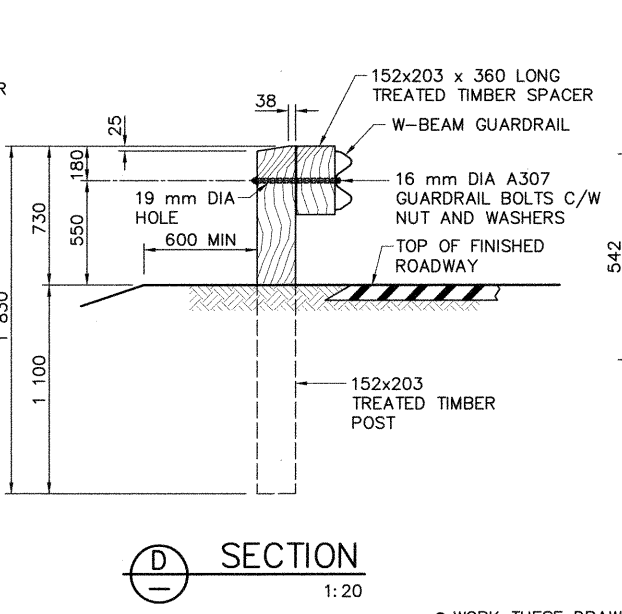
APPROACH RAIL TRANSITION ELEVATION 1:20



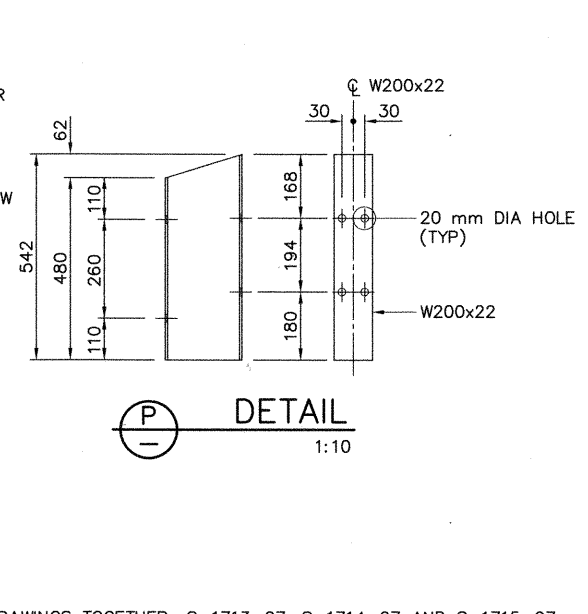
A SECTION 1:20



C SECTION 1:20



D SECTION 1:20



P DETAIL 1:10

GENERAL NOTES

1. THESE APPROACH RAIL TRANSITION UPGRADE DRAWINGS APPLY TO VERTICAL BAR BRIDGERAILS SIMILAR TO THE BRIDGERAIL SHOWN ON DRAWING S-732 AND ALSO TO HORIZONTAL RAIL TYPE BRIDGERAILS SIMILAR TO THE BRIDGERAIL SHOWN ON DRAWING S-687.
2. THESE APPROACH RAIL TRANSITION UPGRADE DRAWINGS ONLY APPLY WHEN UPGRADING OF THE BRIDGERAIL IS NOT BEING CARRIED OUT.
3. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.

FABRICATION

1. APPROACH RAIL TRANSITION SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 14 - GUARDRAIL.
2. ALL PLATE STEEL AND STRUCTURAL SHAPES SHALL CONFORM TO CSA G40.21 GRADE 300W, OR ASTM A36 EXCEPT STRUCTURAL TUBING SHALL CONFORM TO ASTM A500B.
3. ALL BOLTS SHALL CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE.
4. ALL W-BEAM AND THRIE BEAM GUARDRAIL (INCLUDING THRIE BEAM TERMINAL CONNECTOR AND W-THRIE BEAM TRANSITION SECTION) SHALL HAVE A MINIMUM YIELD STRENGTH OF 345 MPa.
5. TIMBER POSTS AND SPACERS SHALL BE COAST DOUGLAS FIR OR PACIFIC COAST HEMLOCK CONFORMING TO THE STRESS GRADE "SELECT STRUCTURAL POSTS AND TIMBERS" (NLGA PARAGRAPH 131 a).
6. ALL WELDING SHALL CONFORM TO CURRENT AWS SPECIFICATION D1.5.
7. ALL NON-STAINLESS STEEL MATERIALS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH CSA G164 UNLESS NOTED OTHERWISE.

ERECTION

1. LINE AND ELEVATION OF BARRIER SHALL BE SET BY INSTRUMENT.
2. ALL POSTS SHALL BE VERTICAL.
3. ALL RAIL SECTIONS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC.
4. ALL GALVANIZED MATERIAL CUT OR DAMAGED IN THE FIELD SHALL BE TOUCHED UP WITH TWO COATS OF ZINC RICH PAINT.

● WORK THESE DRAWINGS TOGETHER: S-1713-07, S-1714-07 AND S-1715-07

UMA AECOM	PERMIT TO PRACTICE UMA ENGINEERING LTD. Signature: <i>Col. Ramsey</i> Date: <i>Aug 14, 2007</i> PERMIT NUMBER: P329 The Association of Professional Engineers, Geologists and Geophysicists of Alberta	DESIGNER 	CHECKER 	RECOMMENDED DIRECTOR BRIDGE ENGINEERING 	Albarta INFRASTRUCTURE AND TRANSPORTATION
	DATE: <i>14-AUG-2007</i>	DATE: <i>Aug 14, 2007</i>	APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH 	APPROACH RAIL TRANSITION UPGRADE VERT. BAR / HORIZ. RAIL BRIDGERAIL DIVIDED HIGHWAY - SHEET 1	
AI BAR CODE		DATE 2007-04-02	SHEET 1 OF 3	DRAWING S-1713-07	