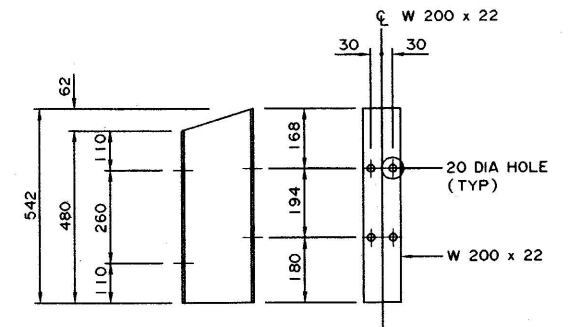
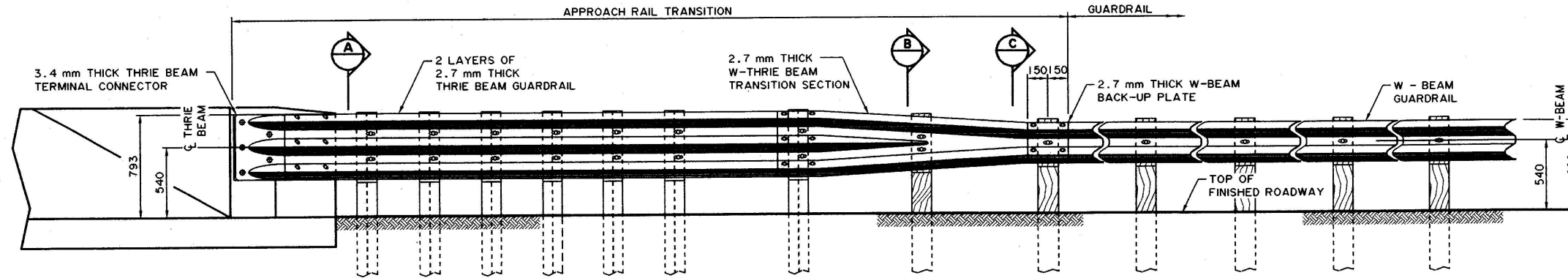


**APPROACH RAIL TRANSITION PLAN**  
1:20



**THRIE BEAM SPACER DETAIL**  
1:10



**APPROACH RAIL TRANSITION ELEVATION**  
1:20

**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. BARRIER CONFIGURATION IS BASED ON A CONFIGURATION THAT HAS BEEN CRASH TESTED AND MEETS THE REQUIREMENTS OF PERFORMANCE LEVEL 2 OF AASHTO GUIDE SPECIFICATIONS FOR BRIDGE RAILING, 1989.
3. DESIGN OF DECK REBAR SHALL BE CARRIED OUT ON A SITE SPECIFIC BASIS.

**FABRICATION**

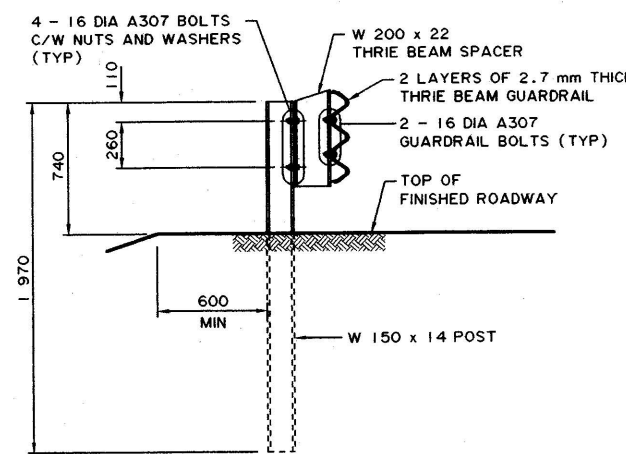
1. APPROACH RAIL TRANSITION SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 14 - GUARDRAIL.
2. ALL PLATE STEEL AND STRUCTURAL SHAPES SHALL CONFORM TO CSA G40.21 GRADE 300W, OR ASTM A36.
3. ALL BOLTS SHALL CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE.
4. 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 MATERIALS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH CSA G164 UNLESS NOTED OTHERWISE.
8. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa.
9. ALL CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.
10. ALL REINFORCING STEEL SHALL HAVE A MINIMUM 50 mm CLEAR COVER UNLESS NOTED OTHERWISE.
11. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPa.

**ERECTION**

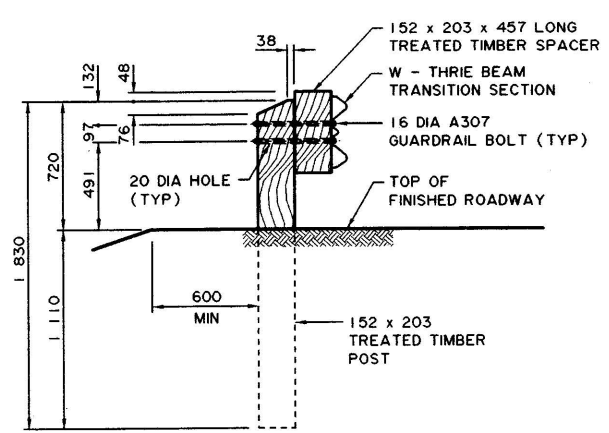
1. LINE AND ELEVATION OF BARRIER SHALL BE SET BY INSTRUMENT AFTER DECK IS CAST.

**SUPERSEDED BY S-1651-00  
REVISION 1, 2007-02-14**

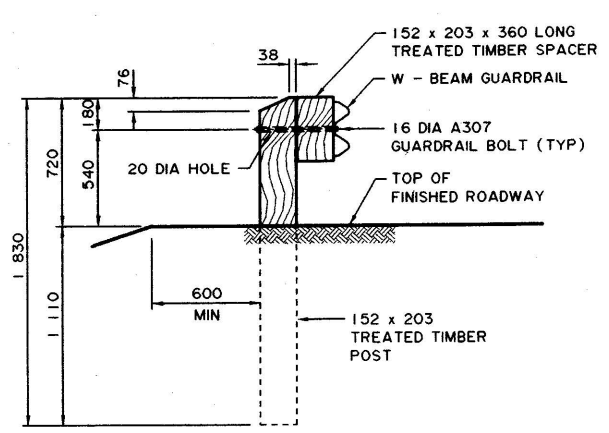
● WORK THESE DRAWINGS TOGETHER: S-1650-00 AND S-1651-00



**A SECTION**  
1:20



**B SECTION**  
1:20



**C SECTION**  
1:20

0705-103-00-3 / S-1651-00.DGN

<p>UMA Engineering Ltd. Engineers, Planners &amp; Surveyors</p>	<p>PERMIT TO PRACTICE UMA ENGINEERING LTD. Signature: <i>[Signature]</i> Date: <i>Nov 21, 2000</i> PERMIT NUMBER: P329 The Association of Professional Engineers, Geologists and Geophysicists of Alberta</p>	<p>DESIGNER PROFESSIONAL ENGINEER ALBERTA JOHN R. [Signature]</p>	<p>CHECKER PROFESSIONAL ENGINEER ALBERTA DAVE B. [Signature]</p>	<p>RECOMMENDED DIRECTOR BRIDGE ENGINEERING</p>	<p>APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH <i>[Signature]</i> DATE: <i>22 Nov 00</i></p>	<p><b>Aberta INFRASTRUCTURE</b></p> <p><b>PL-2 SINGLE SLOPE CONCRETE BRIDGE BARRIER APPROACH RAIL TRANSITION DETAILS</b></p>
		<p>DATE: <i>Nov 21, 2000</i></p>	<p>DATE: <i>Nov 21, 2000</i></p>	<p>REV: [ ] DATE: [ ] REVISIONS: [ ] BY: [ ]</p>		