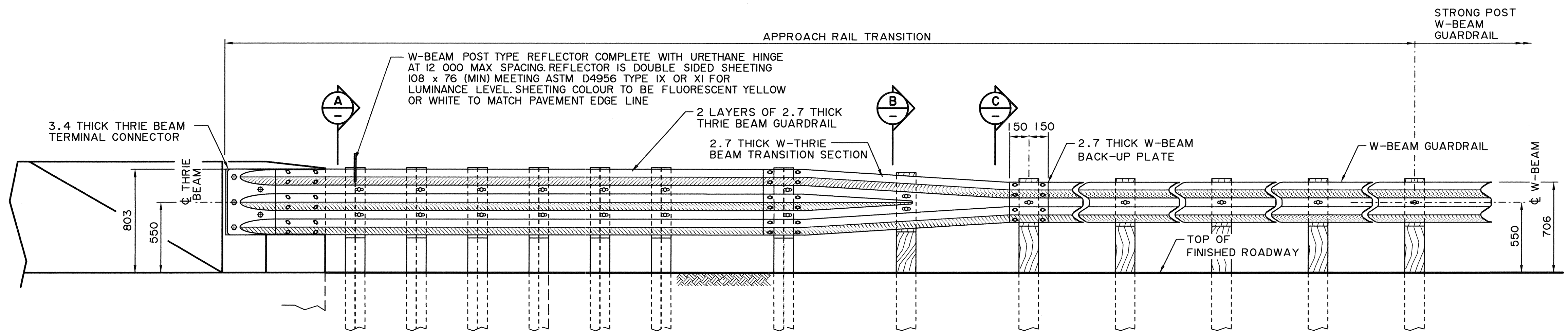


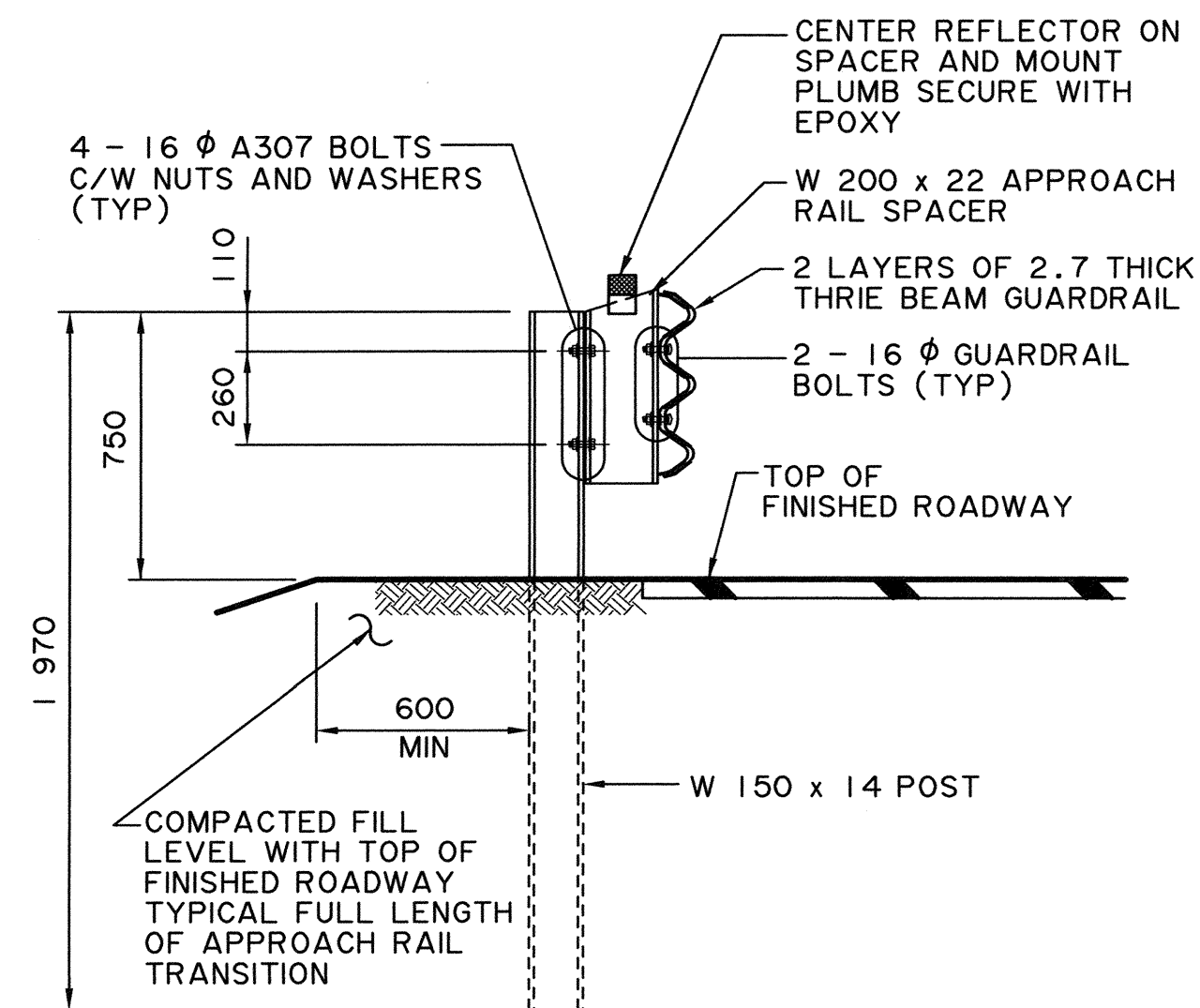
APPROACH RAIL TRANSITION PLAN

1:20



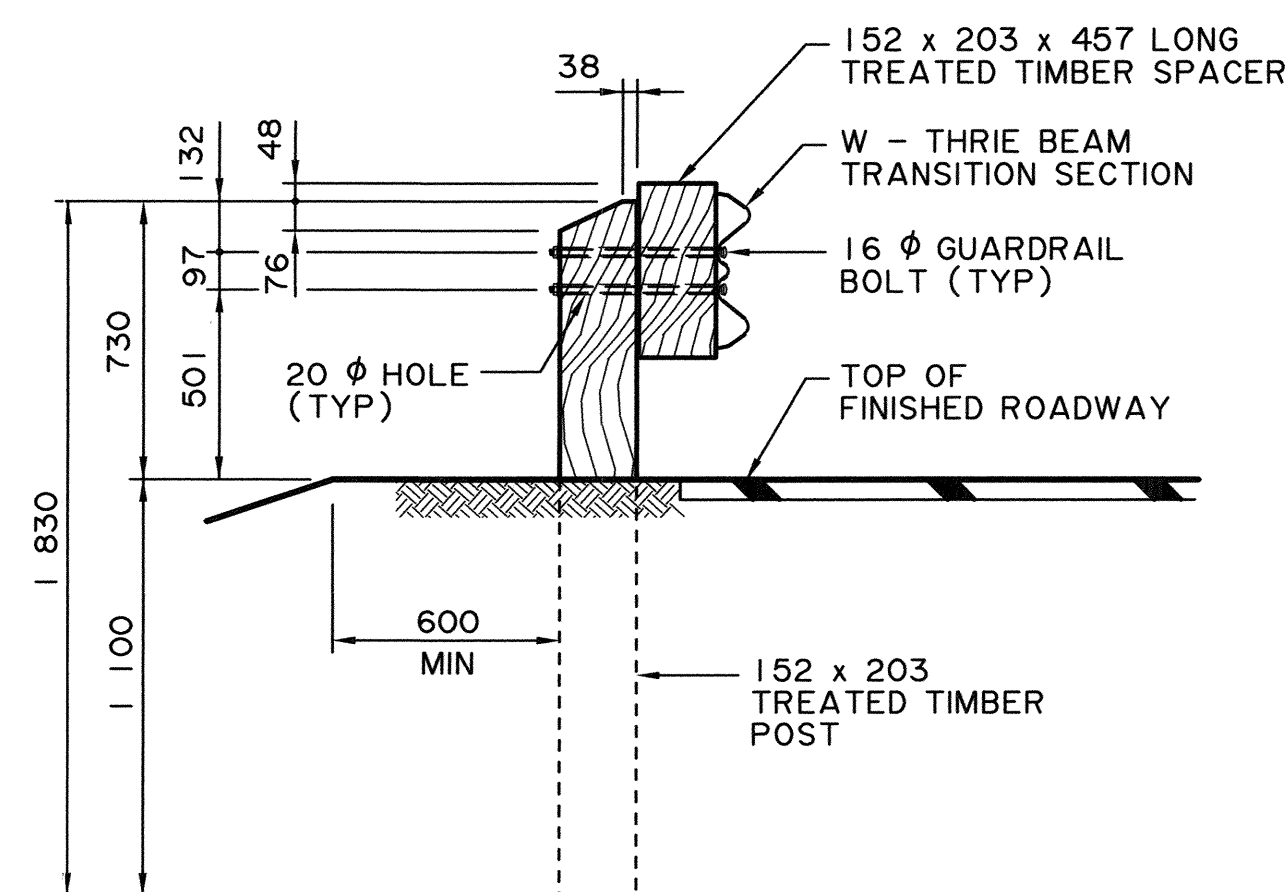
APPROACH RAIL TRANSITION ELEVATION

1:20



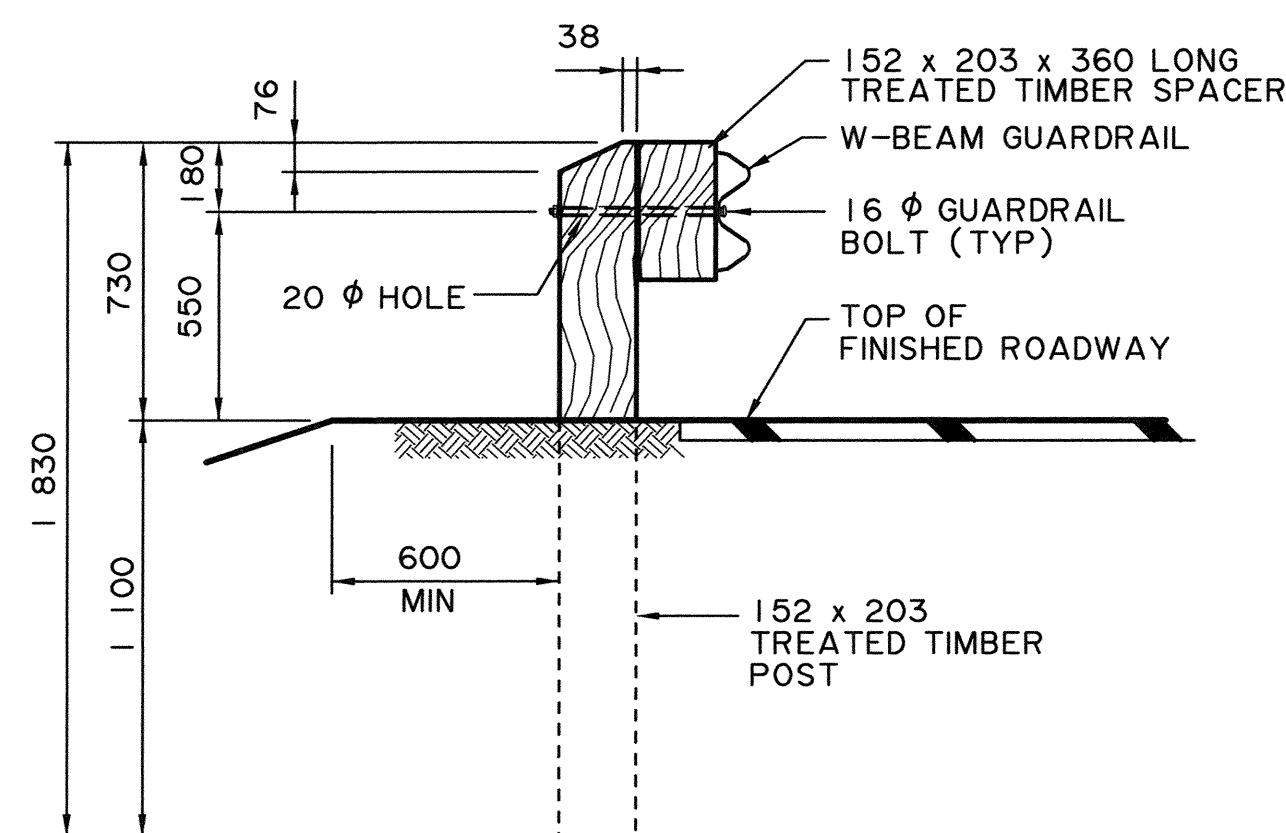
A SECTION

1:20



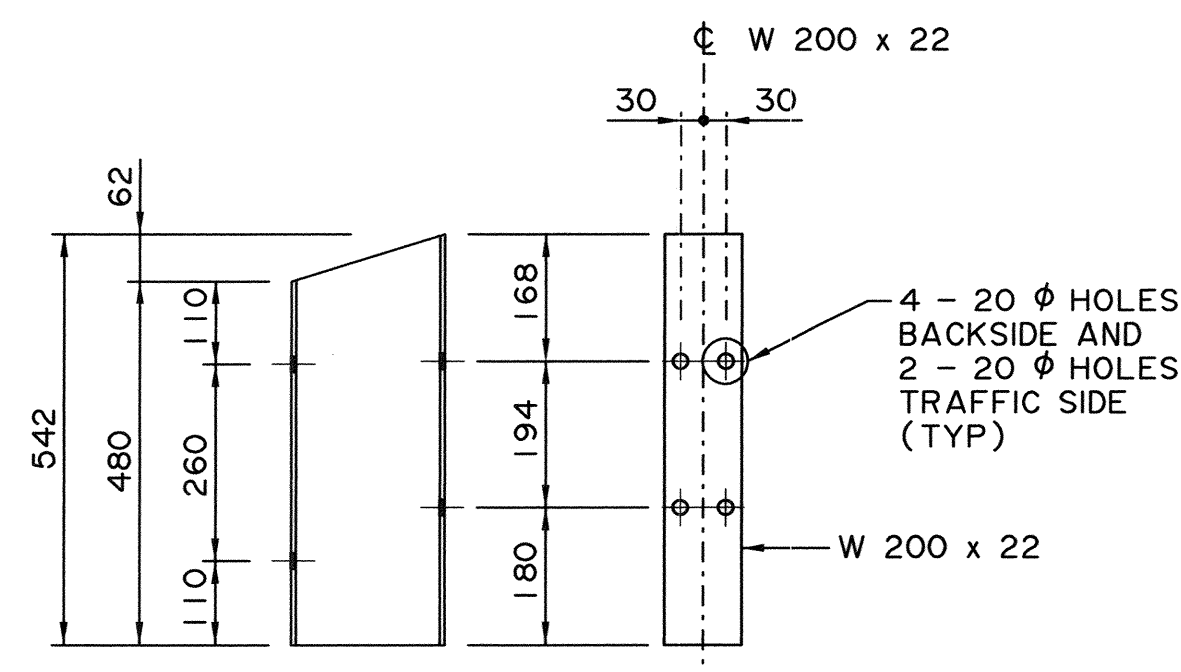
B SECTION

1:20



C SECTION

1:20



SPACER DETAIL

(WY 200 x 22 APPROACH RAIL) 1:10

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
- 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
- SEE SITE SPECIFIC DRAWINGS FOR DECK AND APPROACH SLAB REINFORCING DETAILS
- ALL WORK SHALL BE PERFORMED AS PER STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION

FABRICATION

- APPROACH RAIL TRANSITION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 14
- ALL PLATE STEEL AND STRUCTURAL SHAPES SHALL CONFORM TO CSA G40.21M GRADE 350W OR ASTM A36
- ALL GUARDRAIL BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M180. ALL BOLTS FOR CONNECTING THE STEEL SPACER TO POST SHALL CONFORM TO ASTM A307
- ALL NUTS AND WASHERS SHALL CONFORM TO ASTM A563 AND F436 RESPECTIVELY UNLESS NOTED OTHERWISE
- 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
- 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)
- ALL WELDING SHALL CONFORM TO CURRENT AWS SPECIFICATION D1.5
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123/A123M AND ASTM F2329 UNLESS NOTED OTHERWISE
- ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 45 MPa
- ALL CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE
- CLEAR CONCRETE COVER SHALL BE 60 mm UNLESS NOTED OTHERWISE. THE CONCRETE COVER TO REINFORCING STEEL SHALL BE WITHIN CONCRETE PLACEMENT TOLERANCES AS SPECIFIED IN THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION
- ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH SECTION 5 OF THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION. SEE SITE SPECIFIC DRAWINGS FOR REINFORCING STEEL TYPE

ERECTION

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

• WORK THESE DRAWINGS TOGETHER: S-1650 AND S-1651

		RECOMMENDED DIRECTOR BRIDGE ENGINEERING		Alberta Transportation	
		APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH		TL-4 SINGLE SLOPE CONCRETE BRIDGE BARRIER APPROACH RAIL TRANSITION DETAILS WITH STRONG POST W-BEAM GUARDRAIL	
REV	DATE	REVISION	BY	DATE	DRAWING
DESIGNER	CM	CHECKER	MT	DATE	S-1651-20
				2020-09-04	2 OF 2