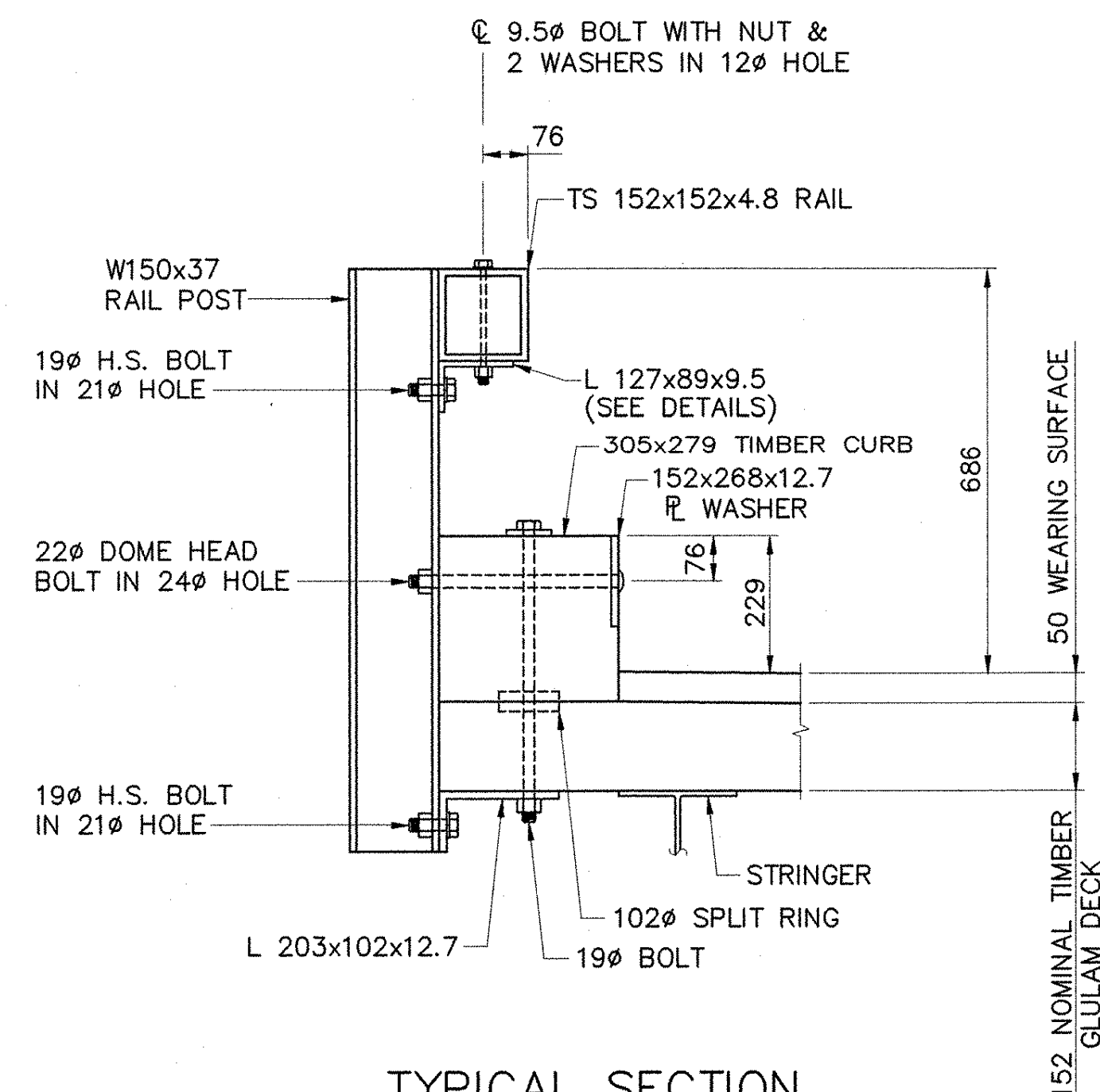
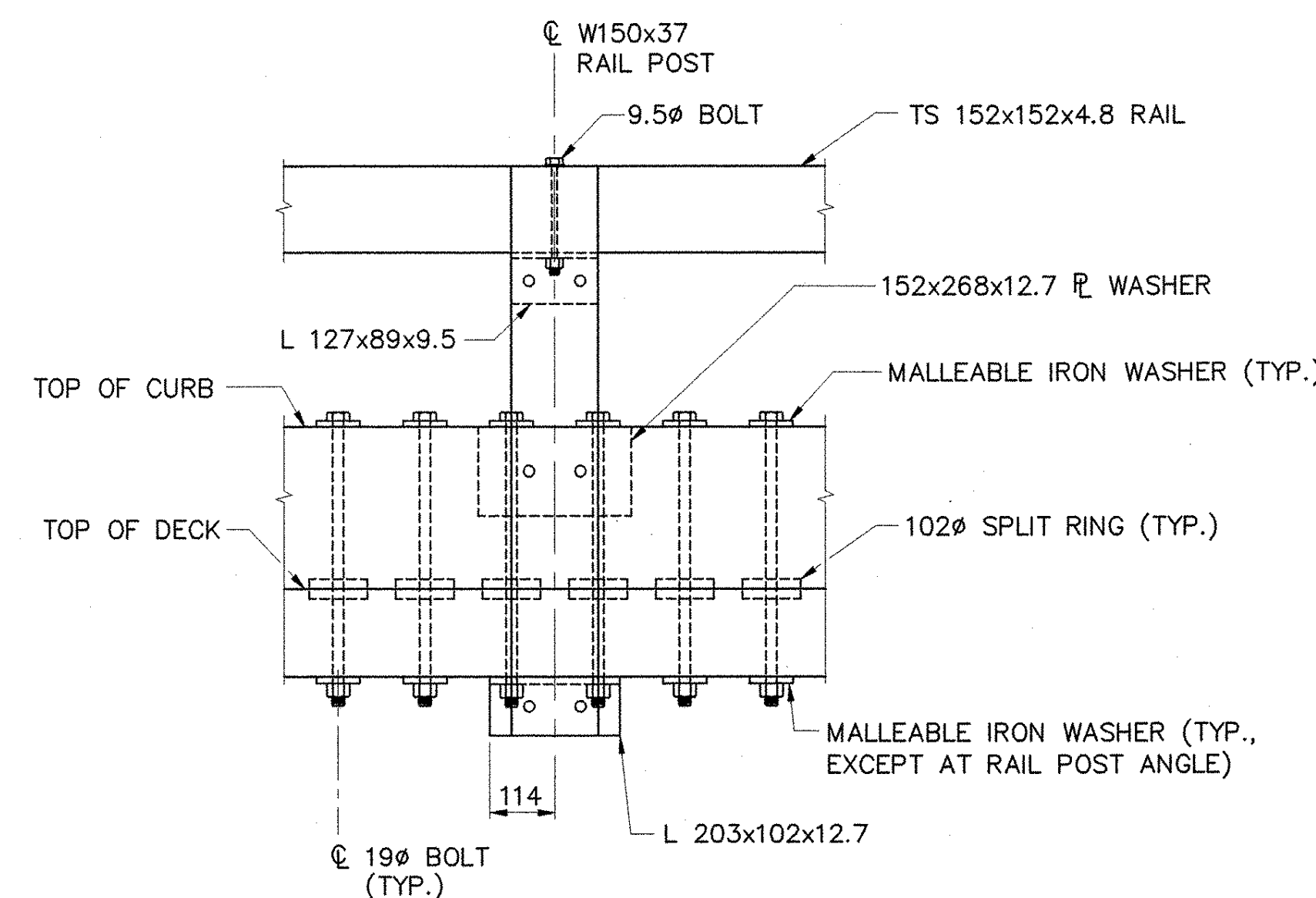


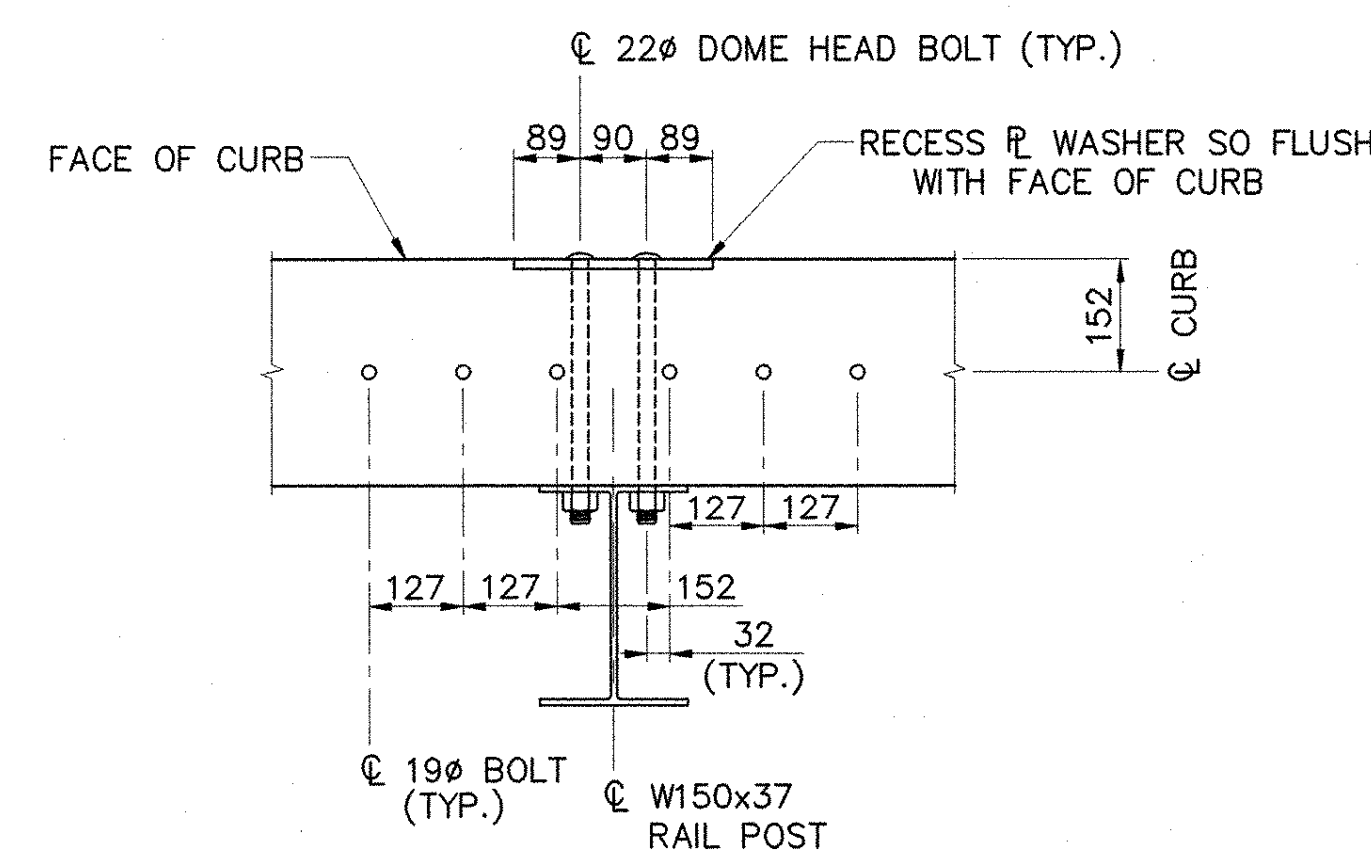


TYPICAL SECTION
(ALL BOLTS ARE HEX HEAD UNLESS OTHERWISE NOTED)
SCALE: 1:10

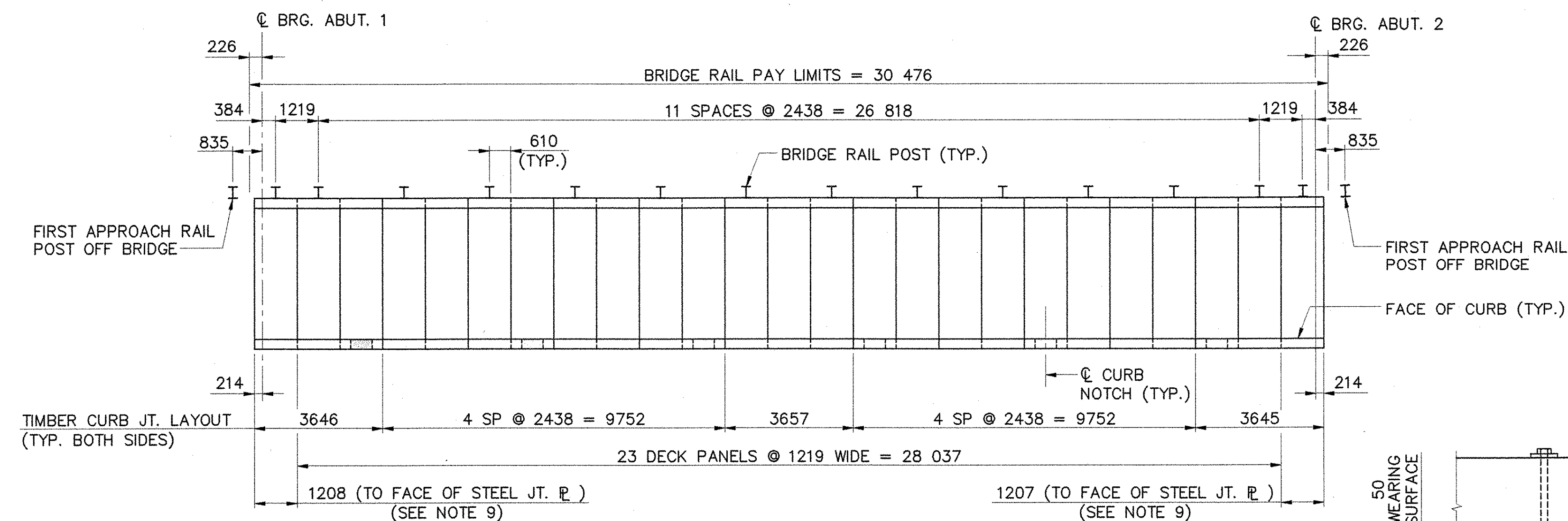


BACK ELEVATION

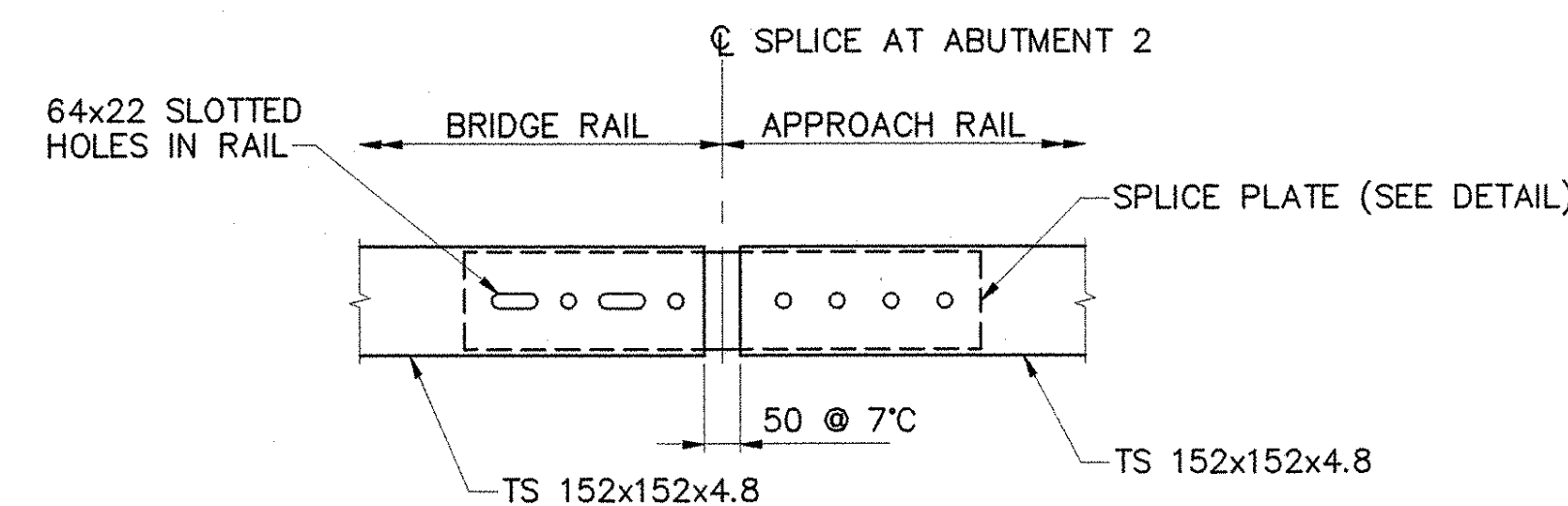
SCALE: 1:10



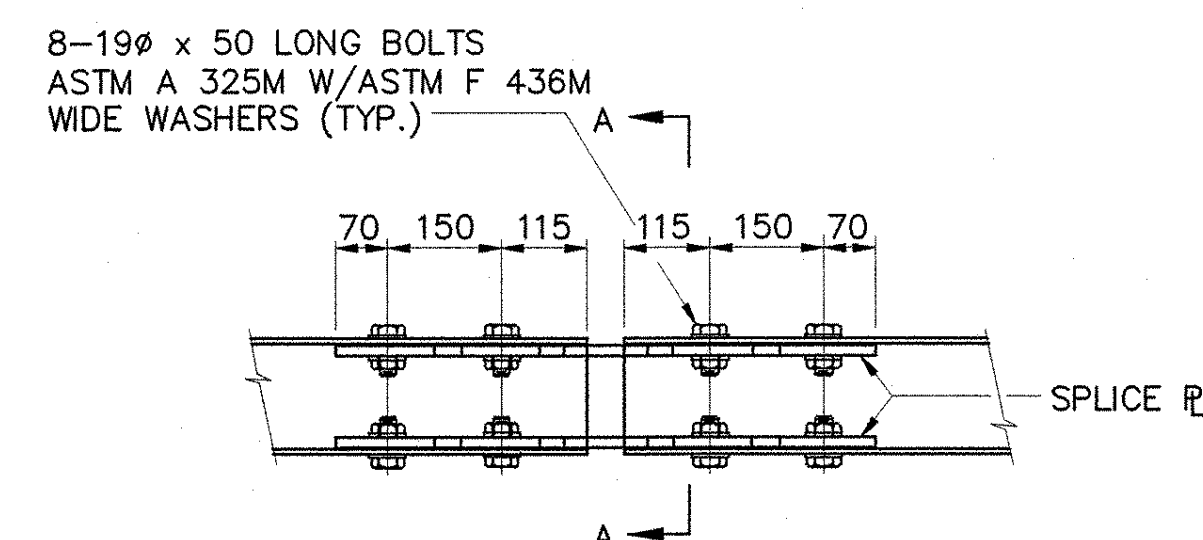
PLAN
(RAIL NOT SHOWN)
SCALE: 1:10



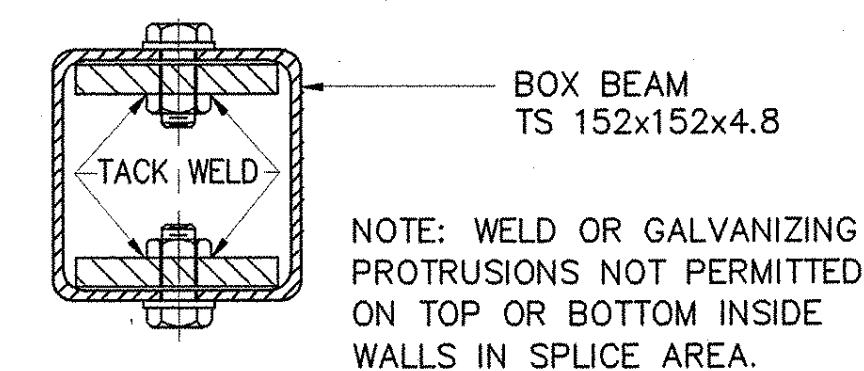
BRIDGE RAIL, CURB JOINT, AND DECK PANEL LAYOUT



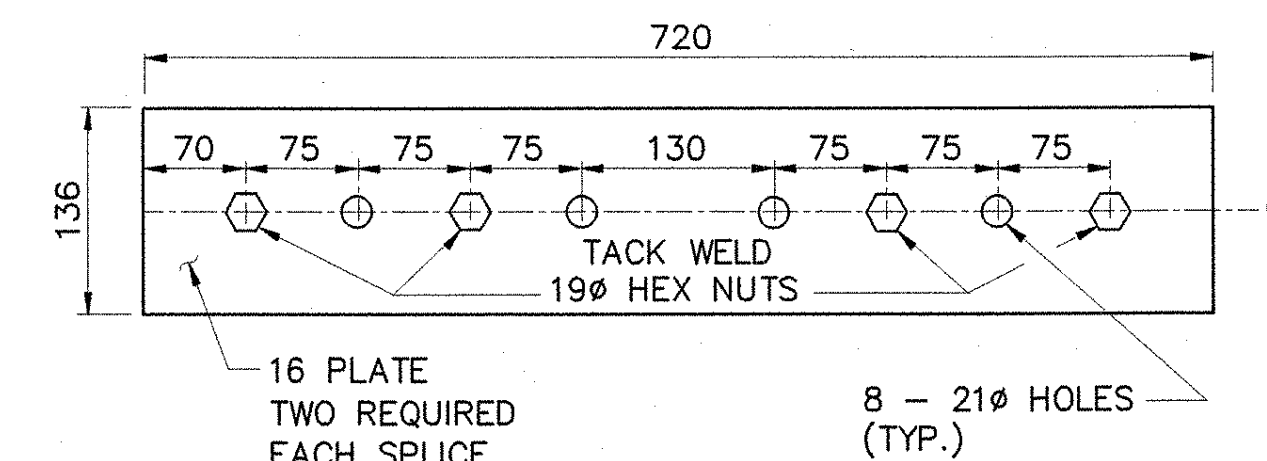
PLAN
SCALE: 1:10



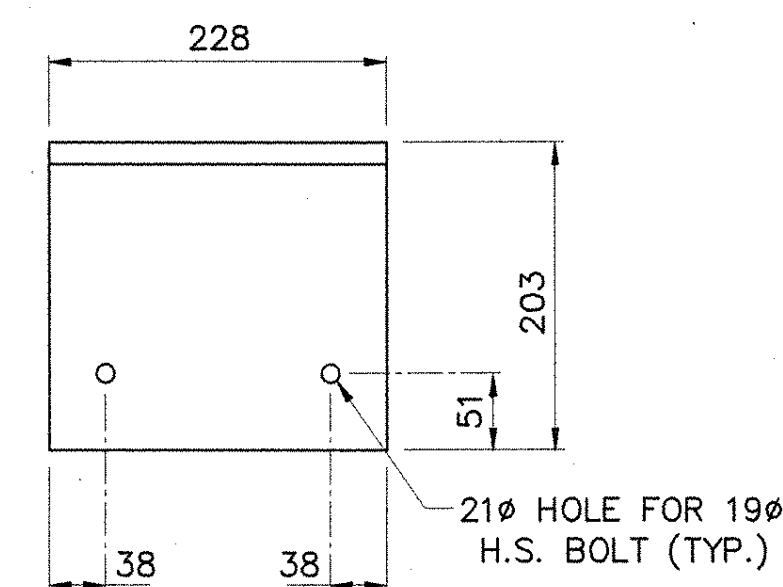
ELEVATION
SCALE: 1:10



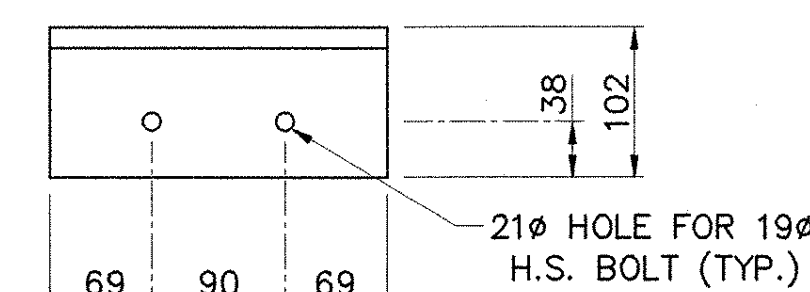
SECTION A-A
SCALE: 1:5



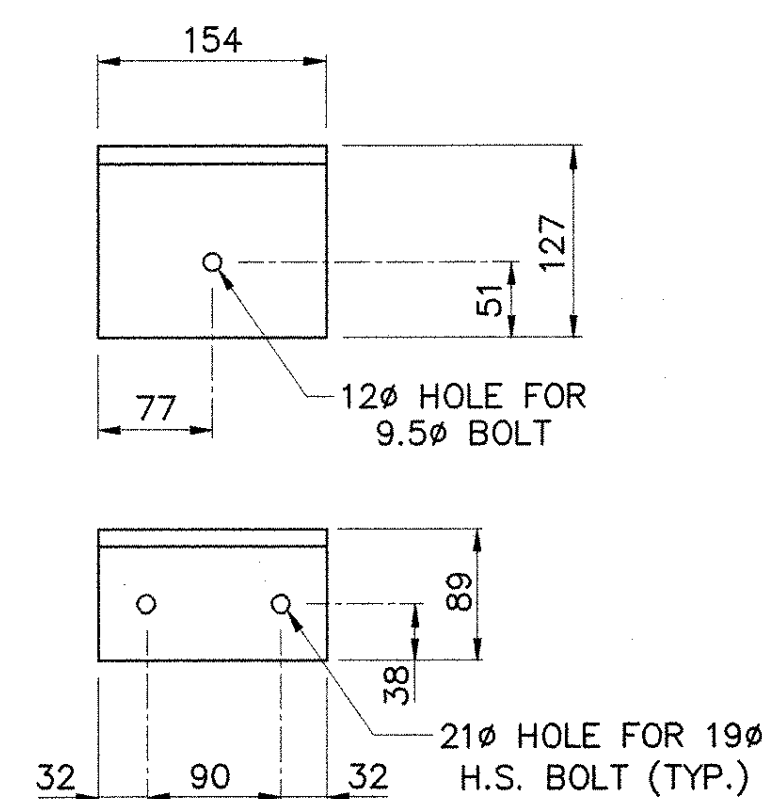
SPLICE PLATE DETAIL
SCALE: 1:5



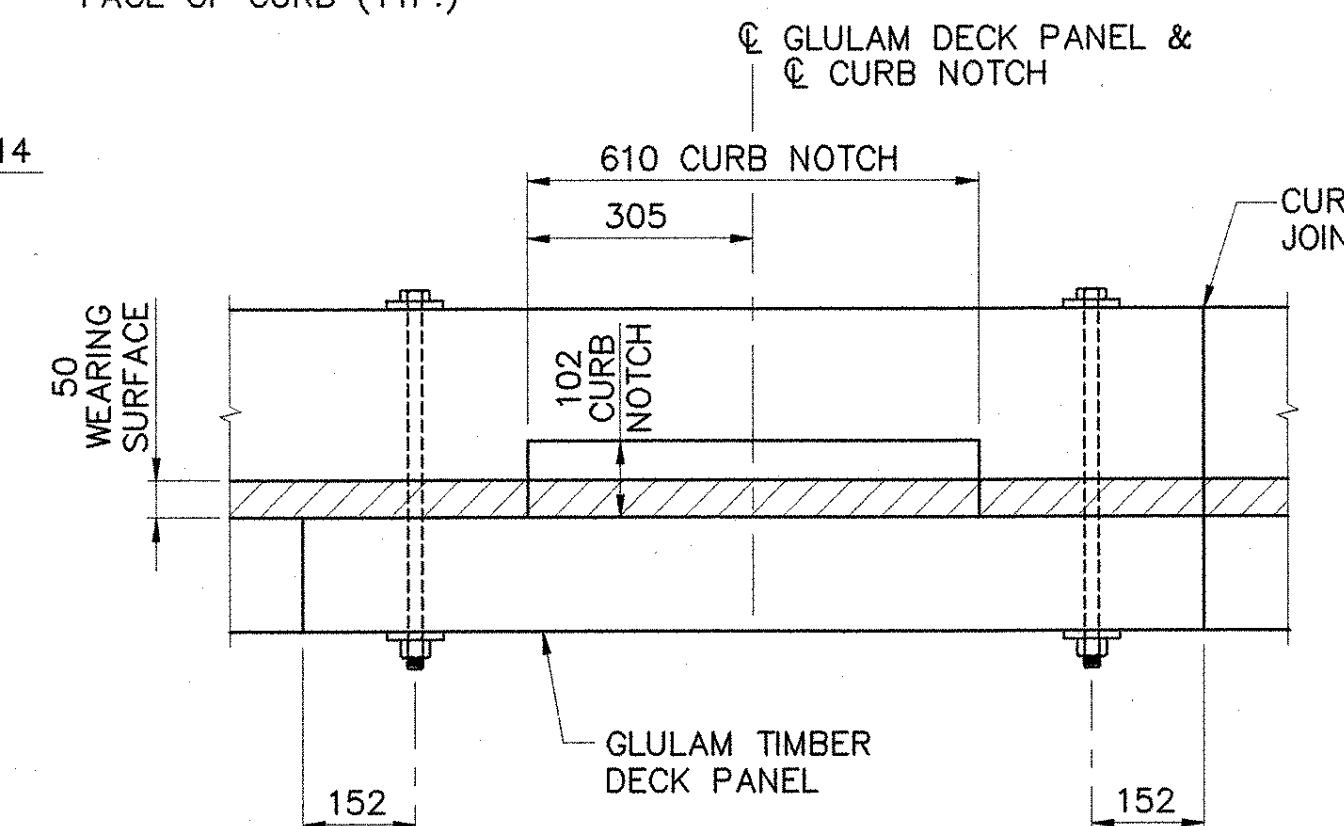
SCALE: 1:5



POST TO DECK CONNECTION ANGLE DETAILS



RAIL SUPPORT ANGLE DETAILS



TYPICAL CURB ELEVATION
SCALE: 1:10

NOTES:

1. BRIDGE RAIL LAYOUT IS THE SAME ON BOTH SIDES OF BRIDGE.
2. BRIDGE RAIL SECTIONS SHALL BE CONTINUOUS OVER A MINIMUM OF 2 POSTS.
3. SEE STANDARD SHEET G-1bM FOR TYPICAL RAIL SPLICE DETAILS.
4. ALL BRIDGE RAIL STRUCTURAL STEEL SHALL BE AASHTO M 270M, GRADE 345, EXCEPT FOR THE HSS RAIL WHICH SHALL BE ASTM A500, GRADE B. ALL COMPONENTS OF THE BRIDGE RAIL, INCLUDING BOLTS AND CONNECTION ANGLES, SHALL BE GALVANIZED.
5. ALL COSTS FOR BRIDGE RAIL POST-TO-DECK CONNECTION ANGLES, PLATE WASHERS AT FACE OF CURB, CURB BOLTS AND SPLIT RINGS, EXPANSION JOINT SPLICES AT ABUTMENT 2, AND RAIL SPLICES AT ALL OTHER LOCATIONS, SHALL BE INCLUDED IN ITEM 525.30, BRIDGE RAILING - 1 RAIL GALVANIZED BOX BEAM (MOD.).
6. H.S. BOLTS IN BRIDGE RAIL SHALL BE AASHTO M 164M TYPE I. ALL OTHER BRIDGE RAIL BOLTS, INCLUDING CURB BOLTS, SHALL BE ASTM F 568M, CLASS 4.6. SPLIT RINGS SHALL BE MANUFACTURED FROM SAE 1010 HOT-ROLLED CARBON STEEL IN ACCORDANCE WITH SAE J412 (SAE 1989).
7. SEE SHEET 21 FOR APPROACH RAIL LAYOUT.
8. AT ALL PANELS WITH BRIDGE RAIL POSTS, TIMBER CURB SHALL BE ATTACHED AS SHOWN IN THE BRIDGE RAIL PLAN AND BACK ELEVATION. AT ALL GLULAM DECK PANELS WITHOUT BRIDGE RAIL POSTS THE TIMBER CURB SHALL BE NOTCHED AND ATTACHED AS SHOWN IN THE TYPICAL CURB ELEVATION. ALL COSTS FOR CURB BOLTS IN DECK PANELS WITHOUT BRIDGE RAIL POSTS SHALL BE INCLUDED IN ITEM 522.25, STRUCTURAL LUMBER AND TIMBER - TREATED.
9. SEE SHEET 17 FOR TYPICAL ROADWAY DECK END JOINT DETAIL.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of CAVENDISH		Bridge No. 12	
		Log Sta.	
Highway No. T.H. 4		Surv. Sta.	
T.H. 4 OVER BLACK RIVER			
BRIDGE RAIL DETAILS			
Designed By T.S. BRYANT		Drawn By K.D. WENTWORTH	
Checked By Date		Bridge Design Supervisor	
T.S. BRYANT 1/04		C.D. BAKER Date 1/04	
PROJECT CAVENDISH		PROJECT NO. BHO 1442 (22)	

VANASSE HANGEN BRUSTLIN, INC.