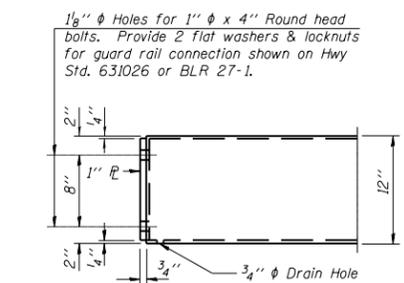
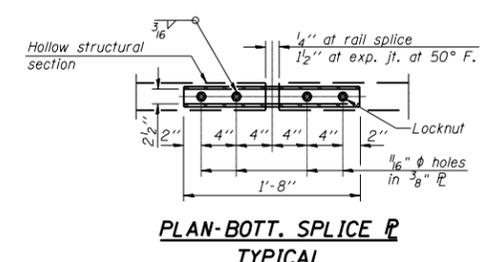
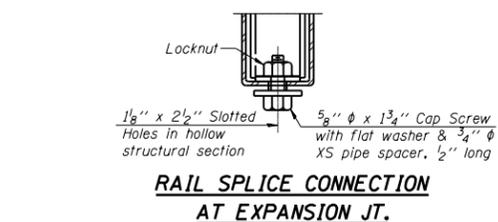
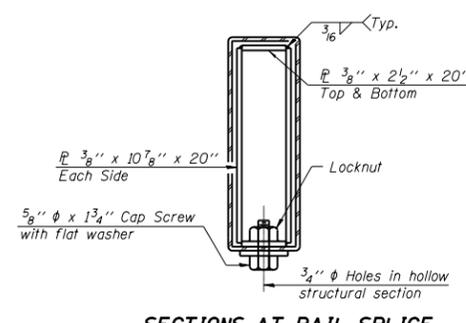
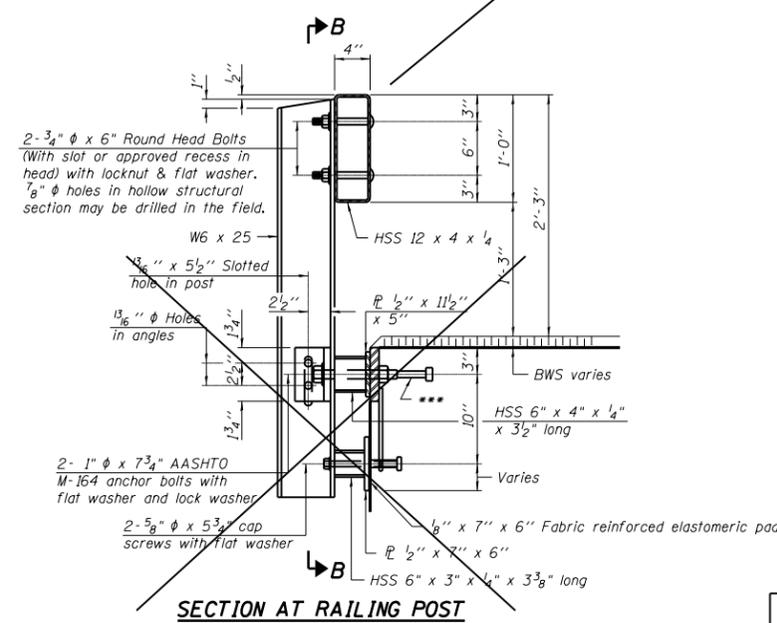
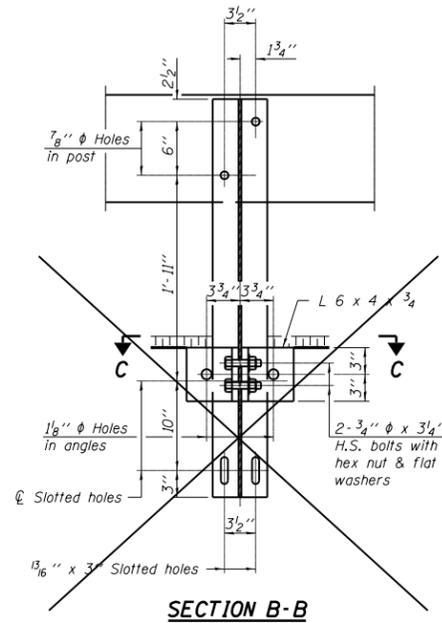
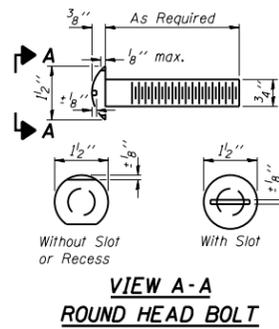


# BRIDGERAIL MODIFICATION DETAIL

**NOTE:**  
BRIDGE RAIL ONLY REPLACEMENT



STEEL RAILING, TYPE S-1  
STRUCTURE NO.

**NOTE:**  
THIS DETAIL SHALL BE USED FOR BRIDGERAIL REPAIRS WHERE NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE TIED INTO EXISTING STEEL PLATE BEAM GUARDRAIL AS WELL AS FOR REMOVING EXISTING RAIL AND ERECTING THE NEW RAIL ELEMENT.

**Notes:**  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.  
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

**BILL OF MATERIAL**

Item	Unit	Quantity
Bridge Rail Removal	Foot	546.0
Steel Railing, Type S-1	Foot	546.0