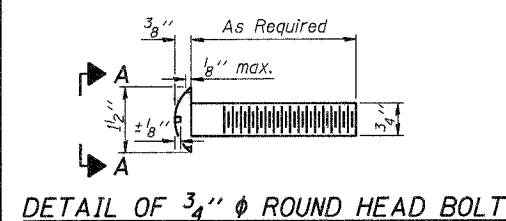
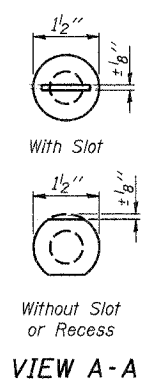


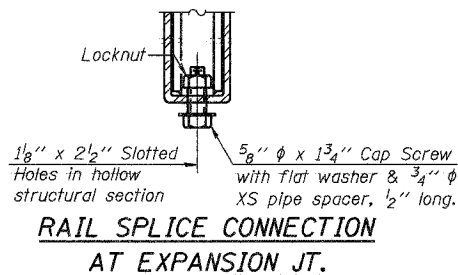
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR0833E	04-09116-00-BR	WINNEBAGO	15	9
ILLINOIS FED. AID PROJECT				



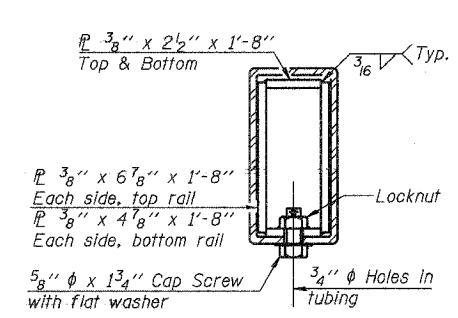
DETAIL OF 3/4"  $\phi$  ROUND HEAD BOLT



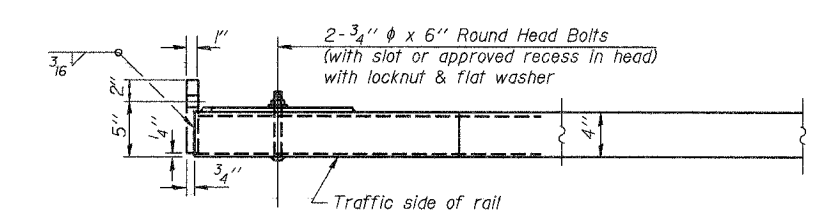
VIEW A-A



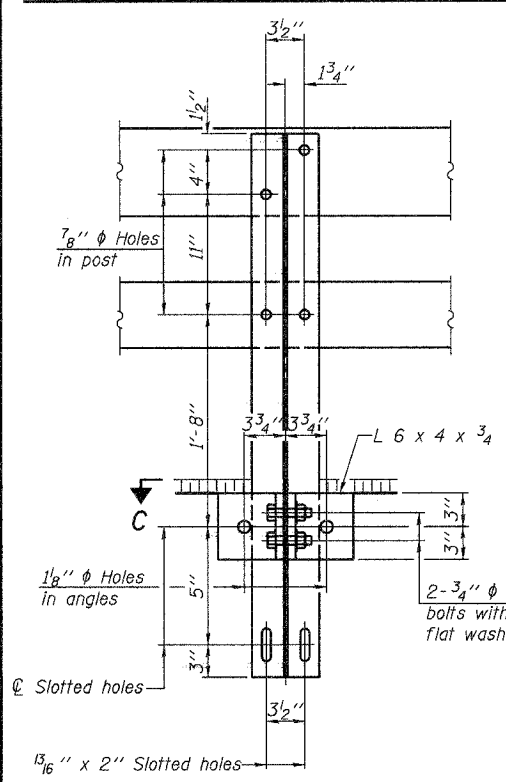
RAIL SPLICE CONNECTION AT EXPANSION JT.



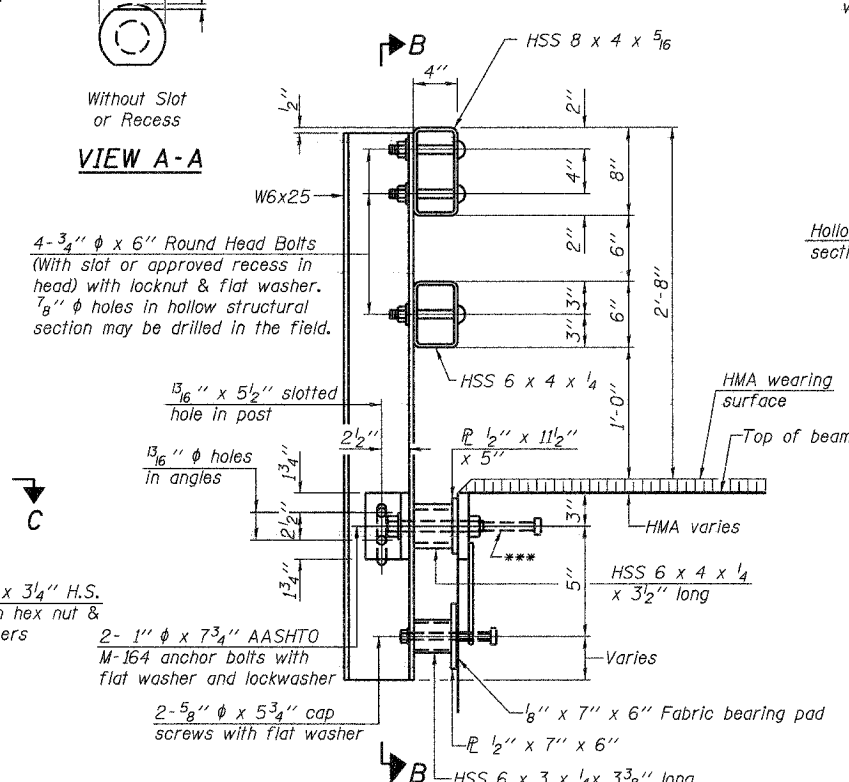
SECTION AT RAIL SPLICE



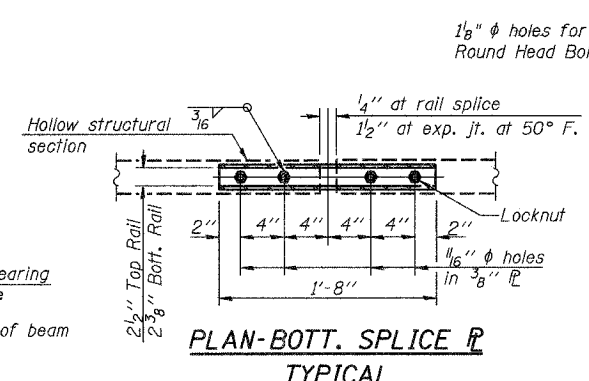
END OF RAIL DETAILS



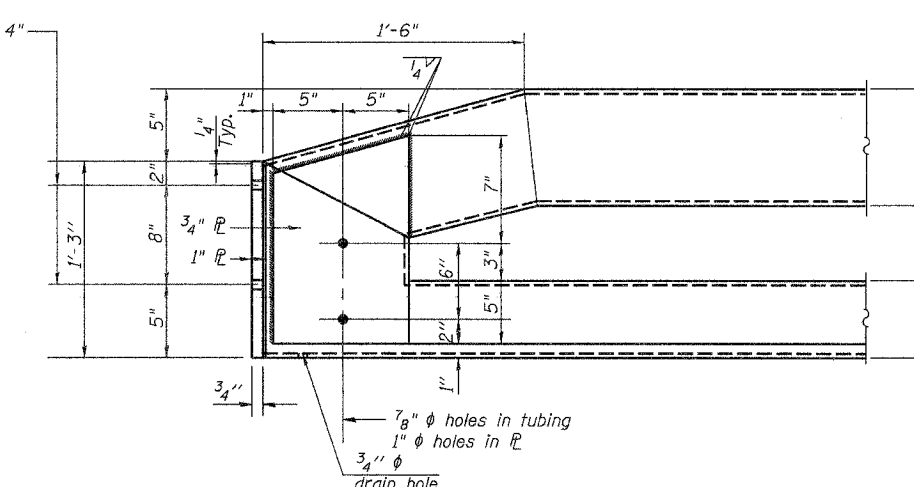
SECTION B-B



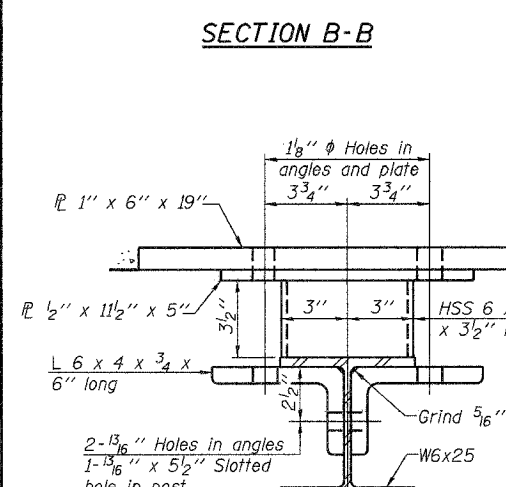
SECTION AT RAIL POST



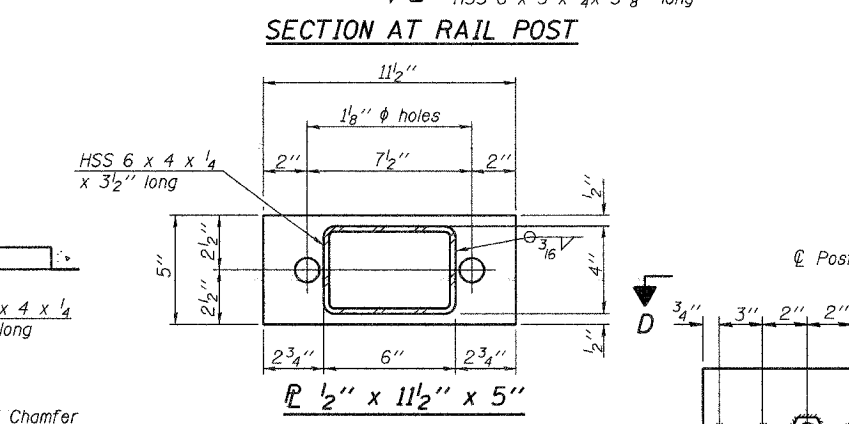
PLAN-BOTT. SPLICE P TYPICAL



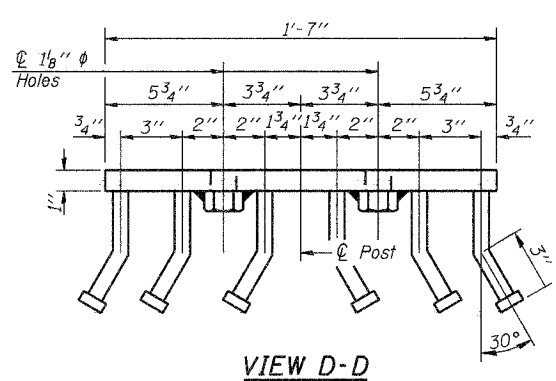
END OF RAIL DETAILS



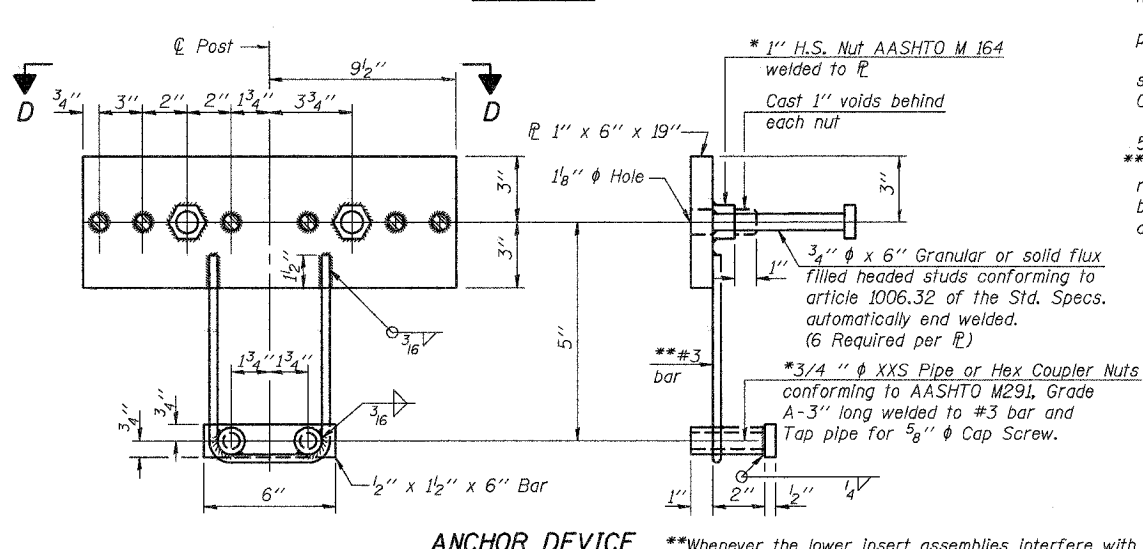
SECTION C-C



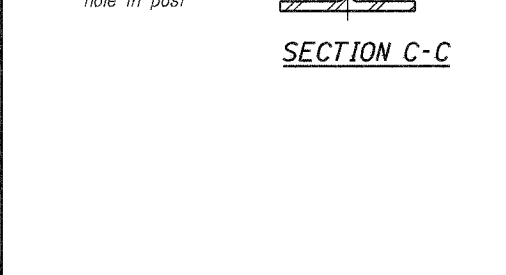
SECTION AT RAIL POST



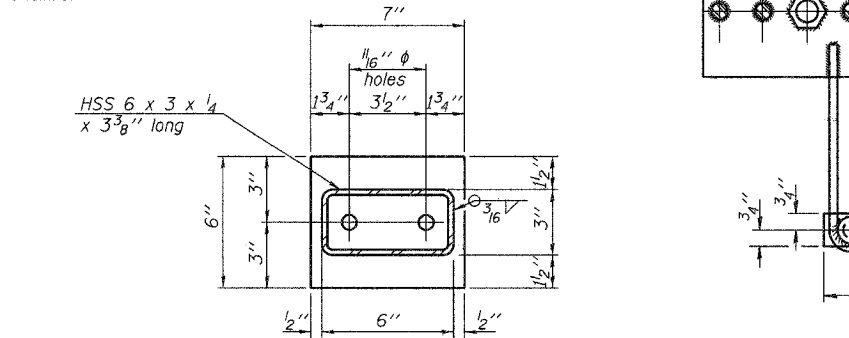
VIEW D-D



ANCHOR DEVICE



SECTION C-C



SECTION AT RAIL POST

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	98

STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE

Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.  
 \*\*\*The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

STEEL BRIDGE RAIL TYPE SM

BROOKVIEW ROAD BRIDGE  
 OVER SPRING CREEK  
 ROCKFORD ROAD DISTRICT  
 WINNEBAGO COUNTY  
 SECTION 04-09116-00-BR



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(3'-1/2" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

\*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

\*\*Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".