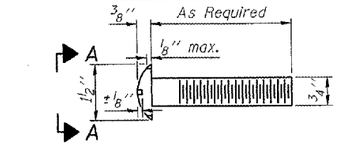
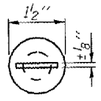
CONTRACT NO. 68692

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(39B)1	McDONOUGH	38	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

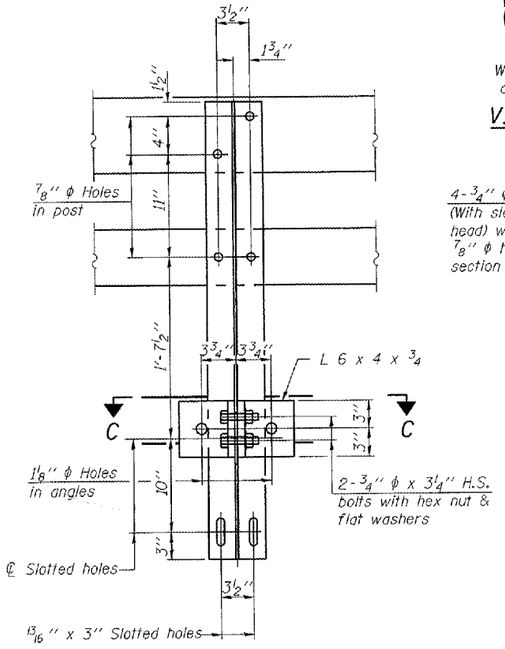
SHEET 7 OF 12 SHEETS



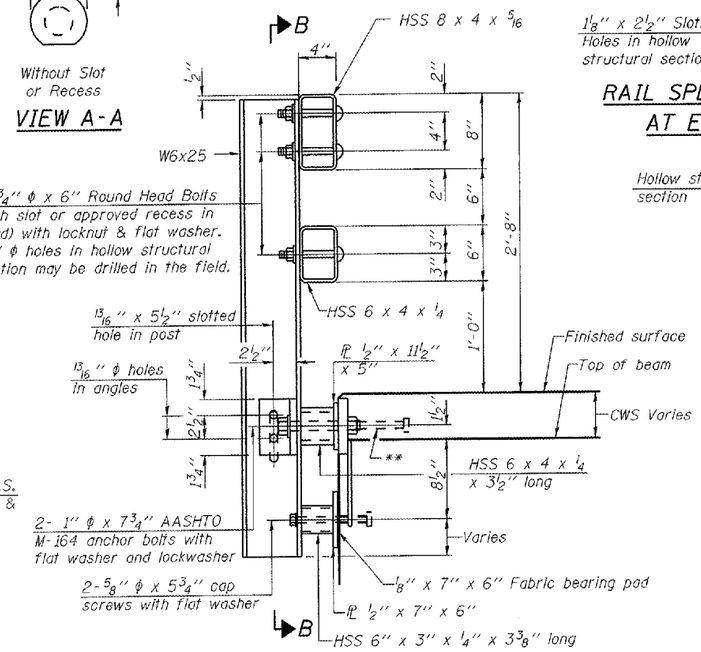
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



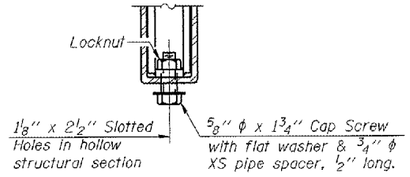
VIEW A-A



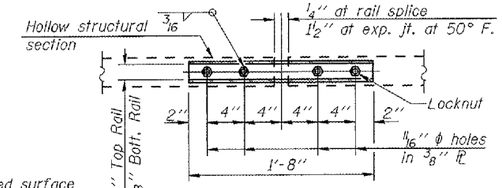
SECTION B-B



SECTION AT RAIL POST

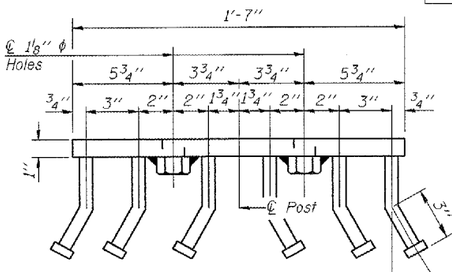


RAIL SPLICE CONNECTION AT EXPANSION JT.

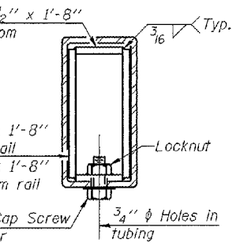


PLAN-BOTT. SPLICE Pℓ TYPICAL

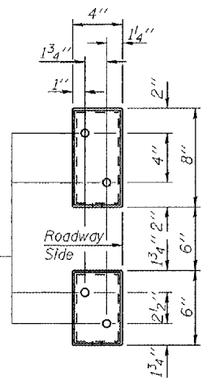
℄ - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



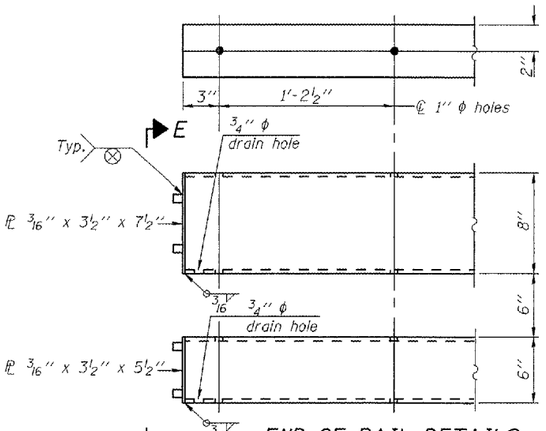
VIEW D-D



SECTION AT RAIL SPLICE

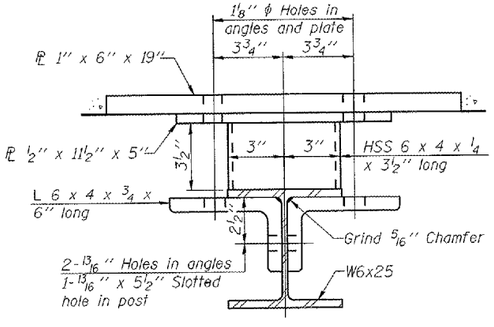


VIEW E-E

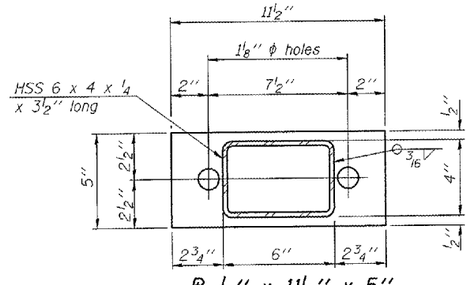


END OF RAIL DETAILS

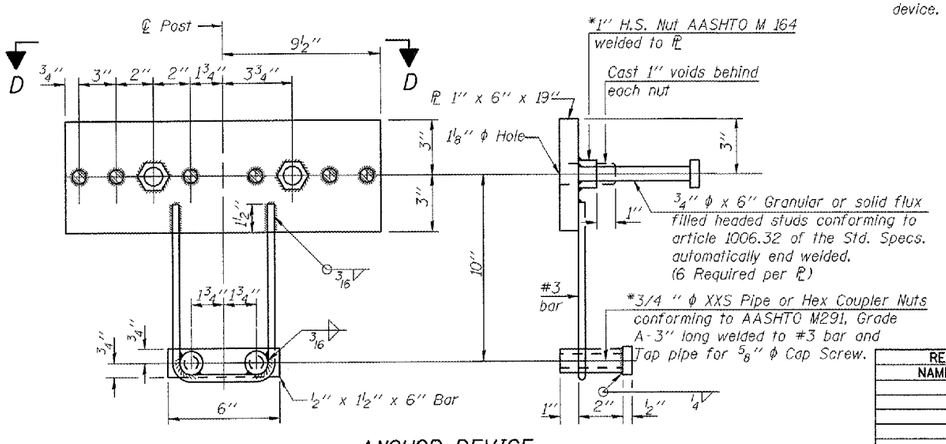
Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
Steel rail elements shall be 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.



SECTION C-C



SECTION AT RAIL POST



ANCHOR DEVICE

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	232

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM
US 67 OVER TROUBLESOME CREEK
FAP 310 SECTION (39B)I
McDONOUGH COUNTY STR. 055-0005

SCALE: N.T.S. DRAWN BY GEW
DATE DEC 2007 CHECKED BY MJS

R-34CWS 9-3-07 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

PLOT SCALE = 2.000 / IN. PLOT DATE = 1/16/2008 FILE NAME = P:\IDOT\Districts\1\troublesome Creek\CAD\Upchurch working Files\Bridge\SteelRailing.dgn