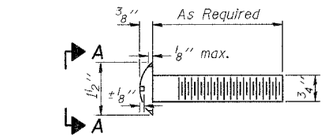
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

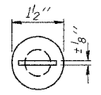
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 693	(119B-3)I	TAZEWELL	34	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
14 SHEETS

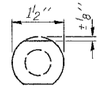
Contract #68415



DETAIL OF 3/4" ϕ ROUND HEAD BOLT

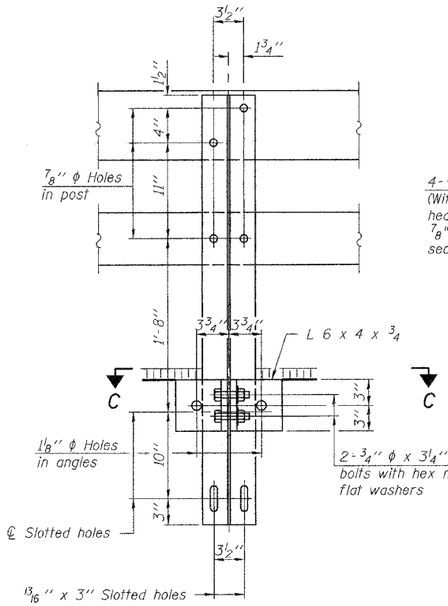


With Slot



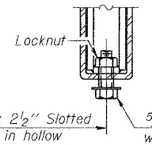
Without Slot or Recess

VIEW A-A

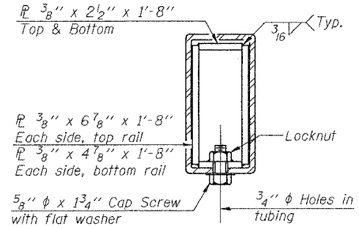


SECTION B-B

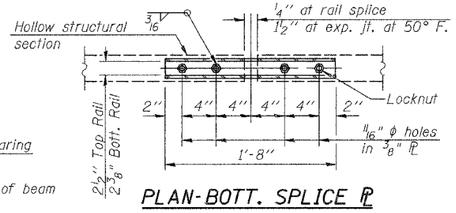
SECTION AT RAIL POST



RAIL SPLICE CONNECTION AT EXPANSION JT.

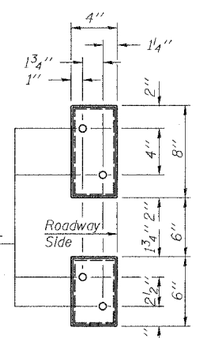


SECTION AT RAIL SPLICE

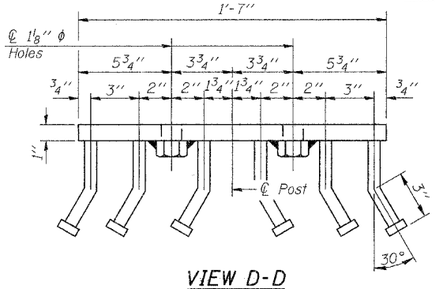


PLAN-BOTT. SPLICE PL TYPICAL

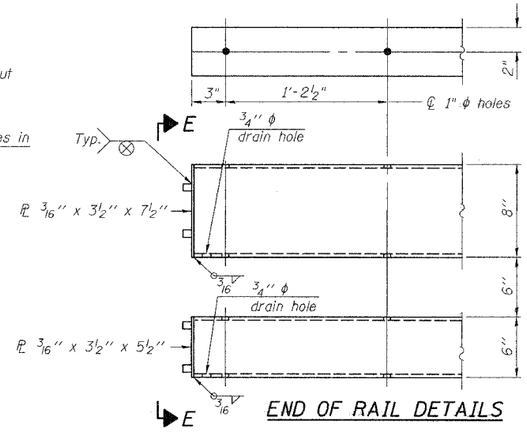
℄ - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



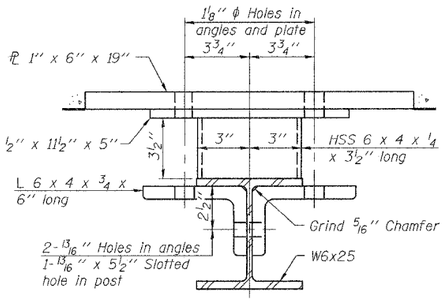
VIEW E-E



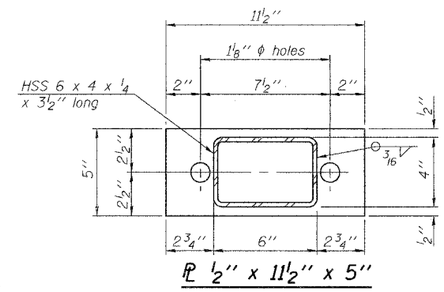
VIEW D-D

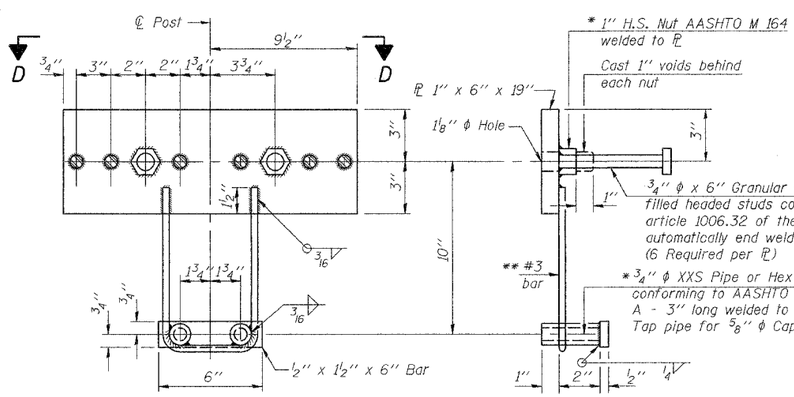


END OF RAIL DETAILS



SECTION C-C





ANCHOR DEVICE

* 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".

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 Bridge Rail, 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.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	207

DESIGNED BWP	THOUVENOT, WADE & MOERCHEN, INC. ENGINEERS ♦ SURVEYORS ♦ PLANNERS
CHECKED KPC	TWM
DRAWN BWP	CORPORATE OFFICE 4940 OLD COLLINSVILLE RD. SWANSEA, ILLINOIS 62226 TEL (618) 624-4468 FAX (618) 624-6630 E-MAIL: corp@twm-inc.com
CHECKED KPC	

R-34HMAWS 11-1-06

(6'-3" Maximum Post Spacing) (1 1/4" minimum to 3 1/8" maximum HMA thickness)

STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061