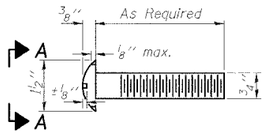
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

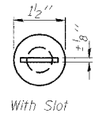
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 132	IBR-2	SALINE	114	51
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 9
16 SHEETS

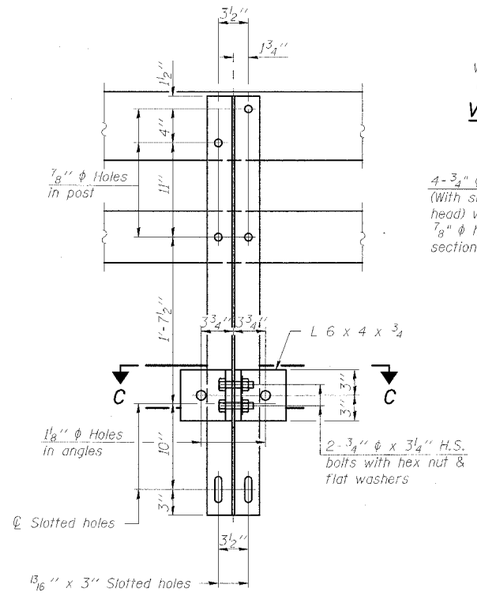
78010



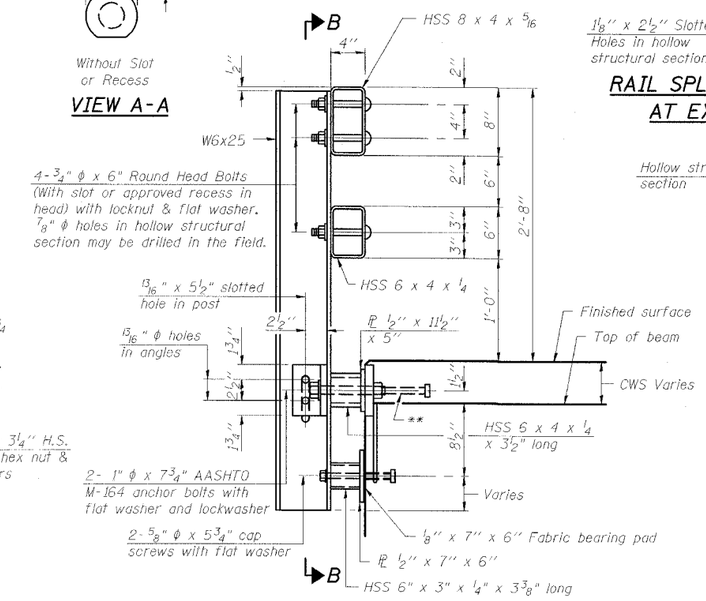
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



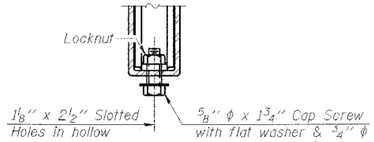
VIEW A-A



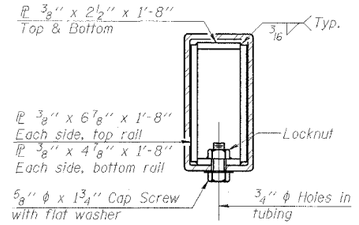
SECTION B-B



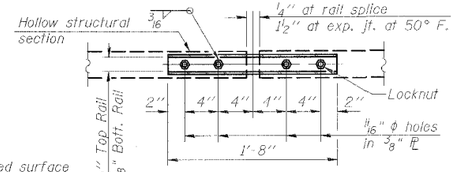
SECTION AT RAIL POST



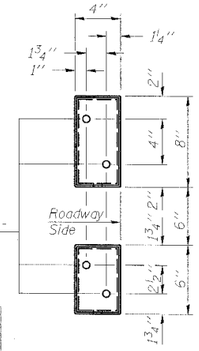
RAIL SPLICE CONNECTION AT EXPANSION JT.



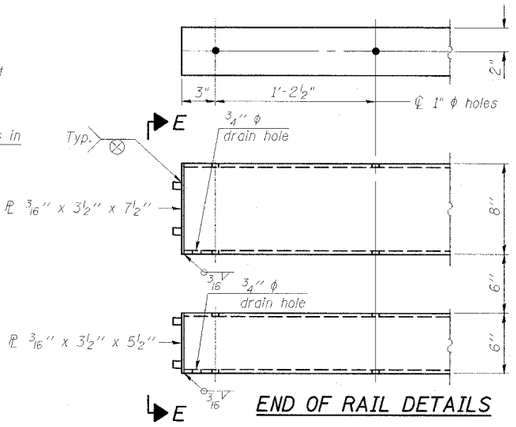
SECTION AT RAIL SPLICE



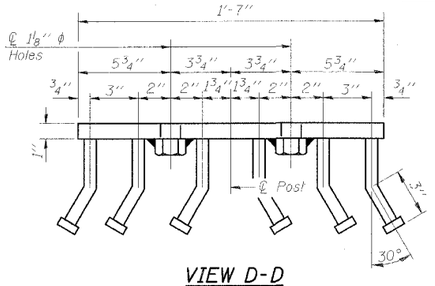
PLAN-BOTT. SPLICE PL TYPICAL



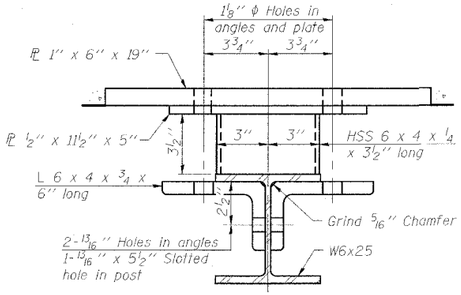
VIEW E-E



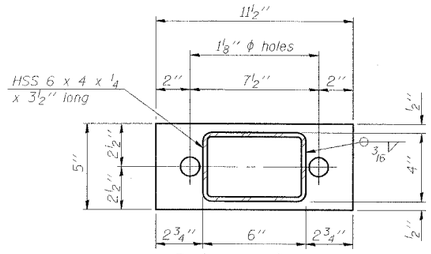
END OF RAIL DETAILS



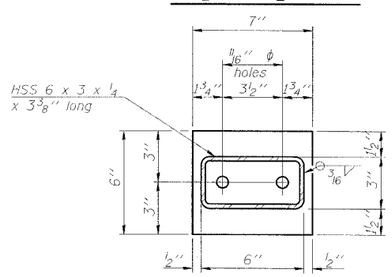
VIEW D-D



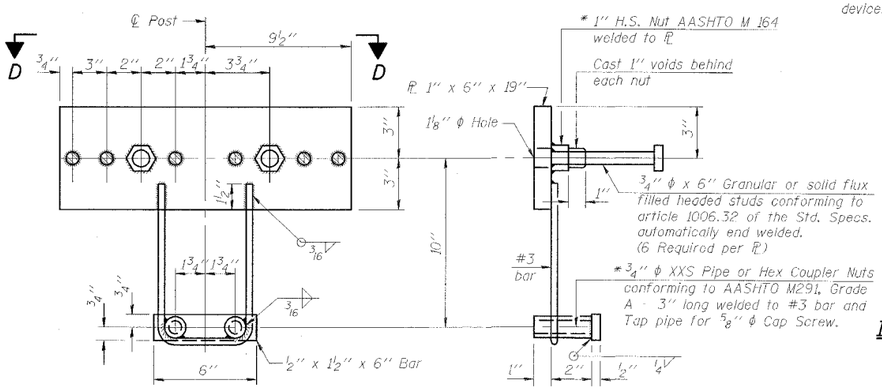
SECTION C-C



PL 1/2" x 11 1/2" x 5"



PL 1/2" x 7" x 6"



ANCHOR DEVICE

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

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.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	343

(6'-3" Maximum Post Spacing) (5" minimum to 7 7/8" maximum CWS thickness)

ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	05/07
DRAWN BY:	HAS	05/07
CHECKED BY:	MTD	06/07
APPROVED BY:	RDP	06/07

R-34CWS 11-1-06

STEEL RAILING, TYPE SM
IL 34/145 OVER SOUTH FORK SALINE RIVER
FAP ROUTE 132 - SECTION 1BR-2
SALINE COUNTY
STATION 235+10.00
STRUCTURE NO. 083-0019