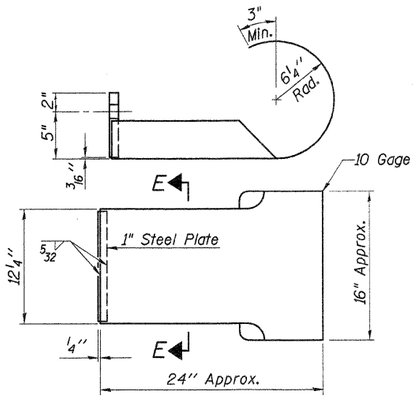
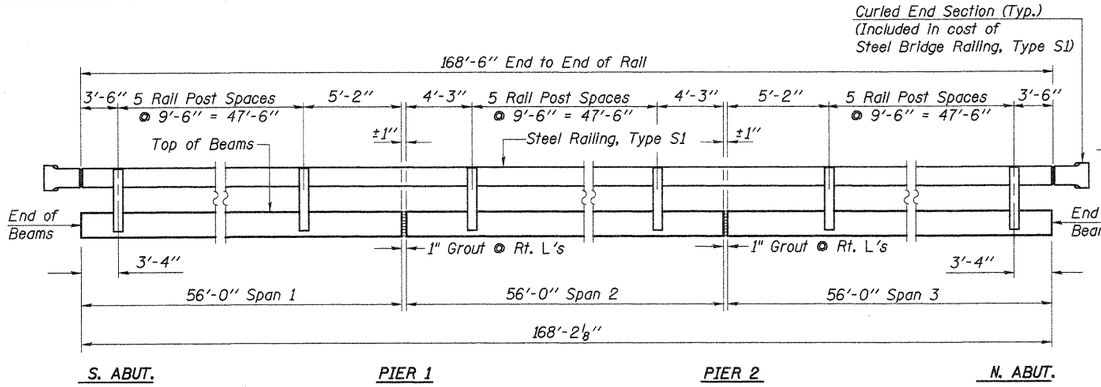
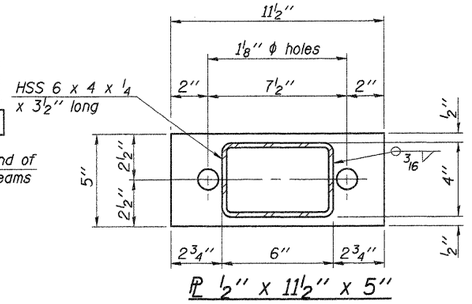


CURLED END SECTION DETAILS

(4 Required)



ELEVATION



℄ ½" x 11½" x 5"

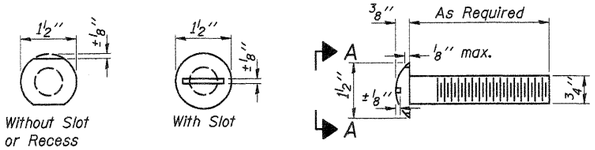
Notes:

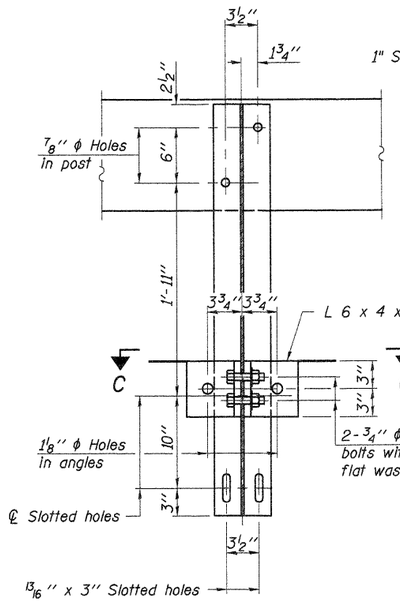
All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.

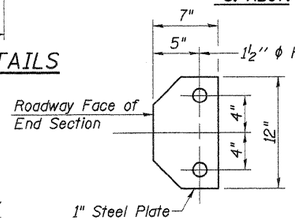
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

*** 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.



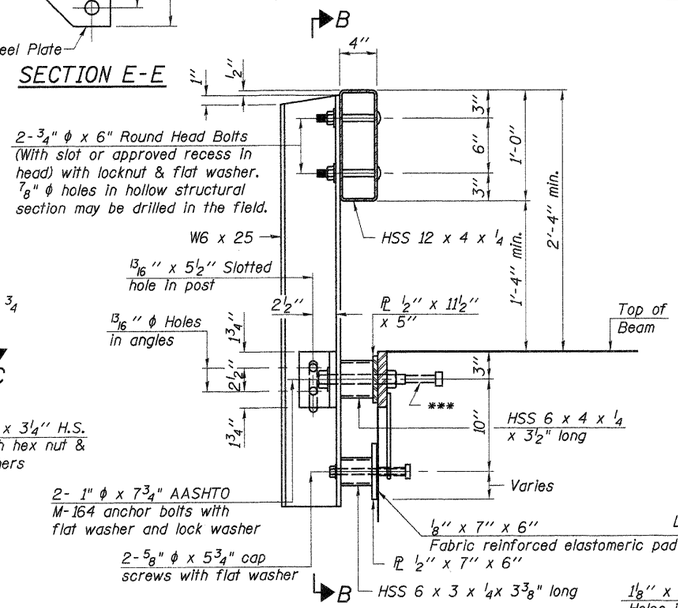


SECTION B-B

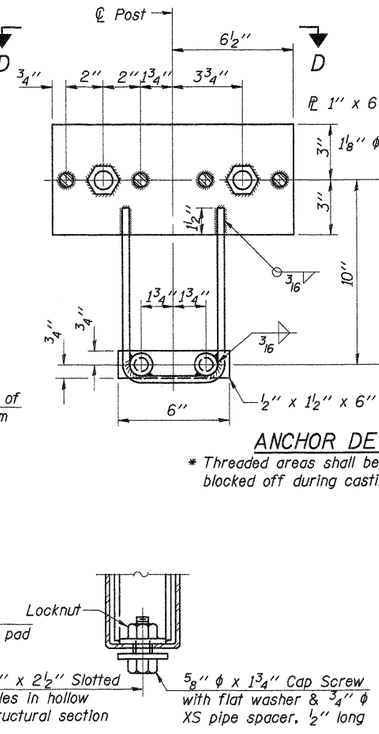


SECTION E-E

** 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 ½".

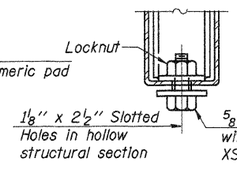


SECTION AT RAILING POST

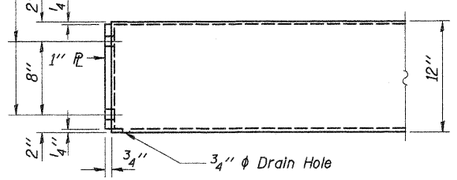


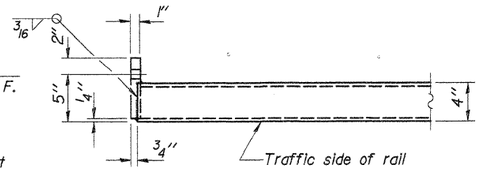
ANCHOR DEVICE

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

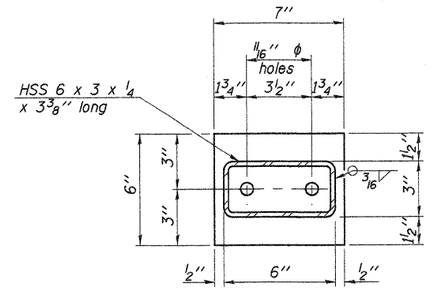


RAIL SPLICE CONNECTION AT EXPANSION JT.

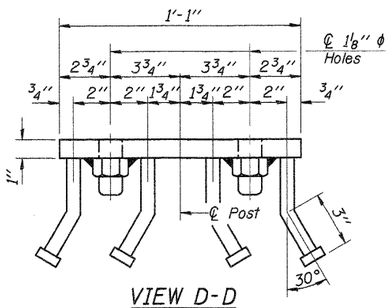




END OF RAIL DETAILS



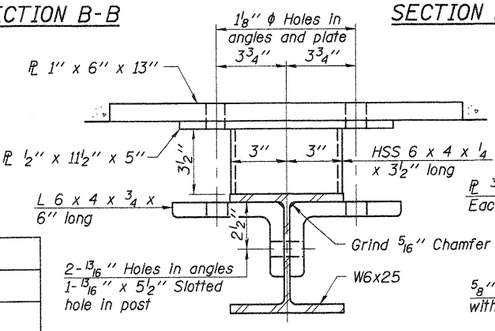
℄ ½" x 7" x 6"



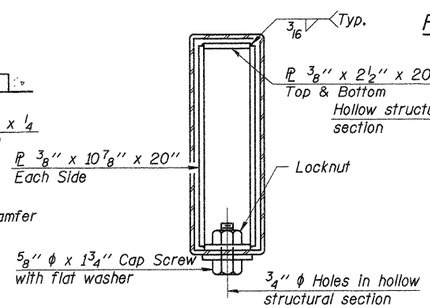
VIEW D-D

BILL OF MATERIAL

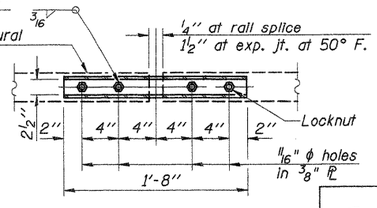
Item	Unit	Quantity
Steel Railing, Type S-1	Foot	337



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE ℄ TYPICAL

STEEL RAILING, TYPE S-1

S.N. 038-4751 ****06-02148-00-BR
06-18148-00-BR

DESIGNED - A.L.S.
CHECKED - A.R.K.
DRAWN - S.A.P.
CHECKED - A.R.K. & A.L.S.

R-23A 10-1-08 (10'-9" Maximum Post Spacing)

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL.
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
228	****	IROQUOIS	19	8
	BROS-075 (137)	CONTRACT NO. 87446		
	ROAD DISTRICT ILLINOIS	ASH GROVE/MILFORD		

FILE: RAIL-S1-3.DGN DATE: 11/19/09

*09-478