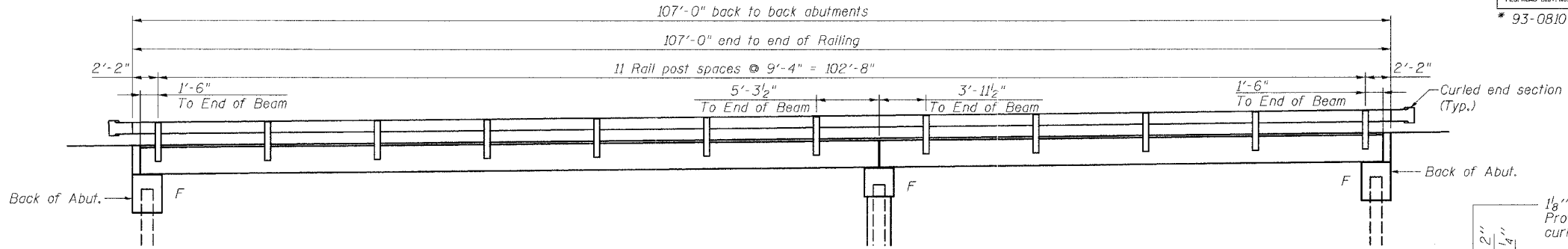
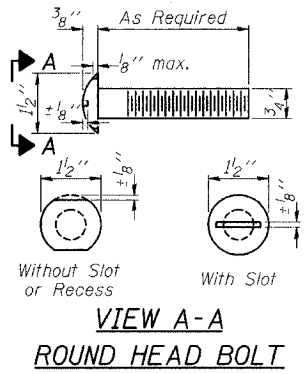
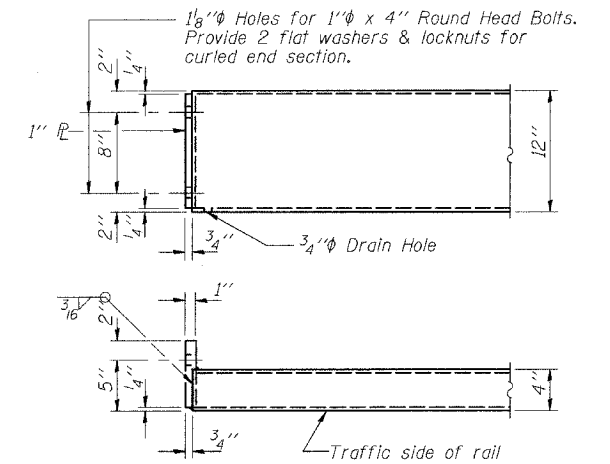


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 4 9 SHEETS
TR 151	*	CHRISTIAN	20	8	
FED. ROAD DIST. NO.	ILL. DIST.	FED. AID PROJECT			
* 93-08107-00-BR					



ELEVATION VIEW



END OF RAIL DETAILS

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.  
All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.  
Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.  
All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.  
All posts, railing, rail splices, anchor devices, end sections and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.  
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8 inch fabric bearing pad between the post and concrete.  
The 3/4 inch high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1 inch high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8 inch cap screws in bottom of posts shall be tightened to a snug fit only.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing Type S-1	Foot	214

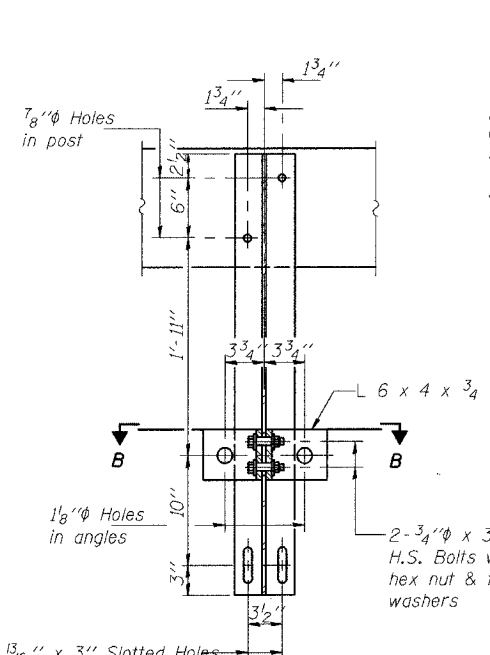
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TYPE S-1 STEEL RAILING

TR 151 OVER BRUSHY BRANCH CREEK  
SECTION 93-08107-00-BR  
CHRISTIAN COUNTY  
STATION 20+00.00  
S.N. 011-3405

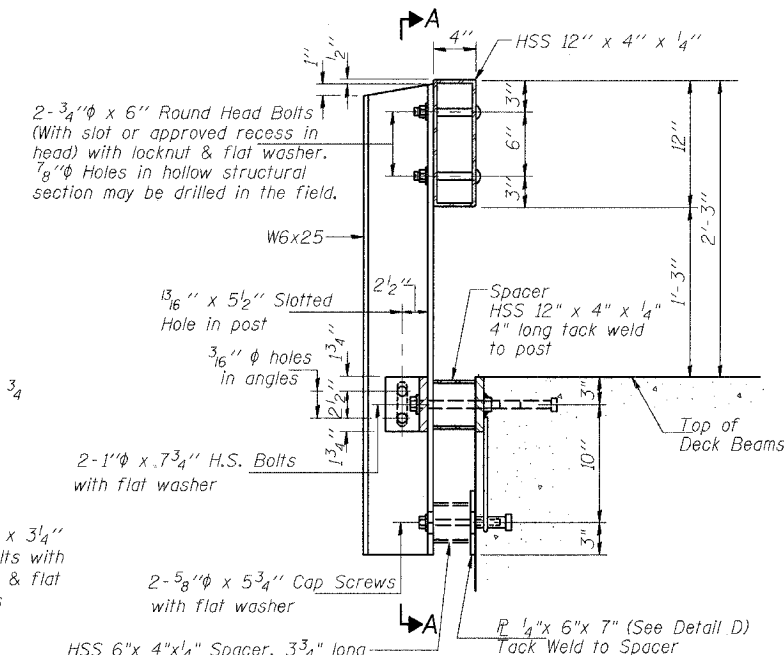
DESIGNED BY: LANDREY  
CHECKED BY: MATHUR  
TRELLO

DRAWN BY: LANDREY  
CHECKED BY: MATHUR  
TRELLO

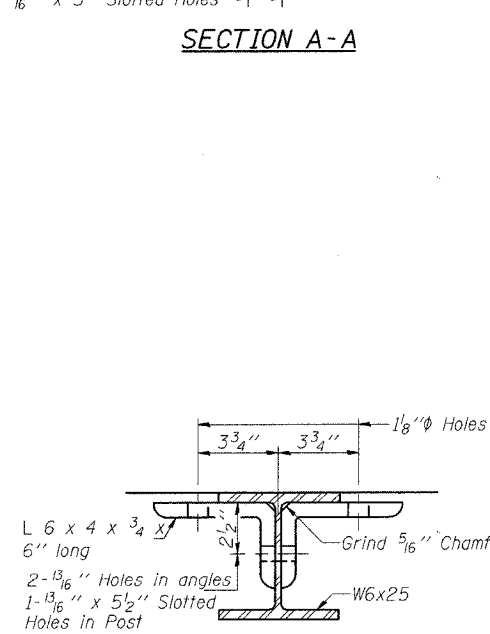
COMPUTER FILE NO. SN0113405:04  
PROJECT 05228  
6/27/06-MML



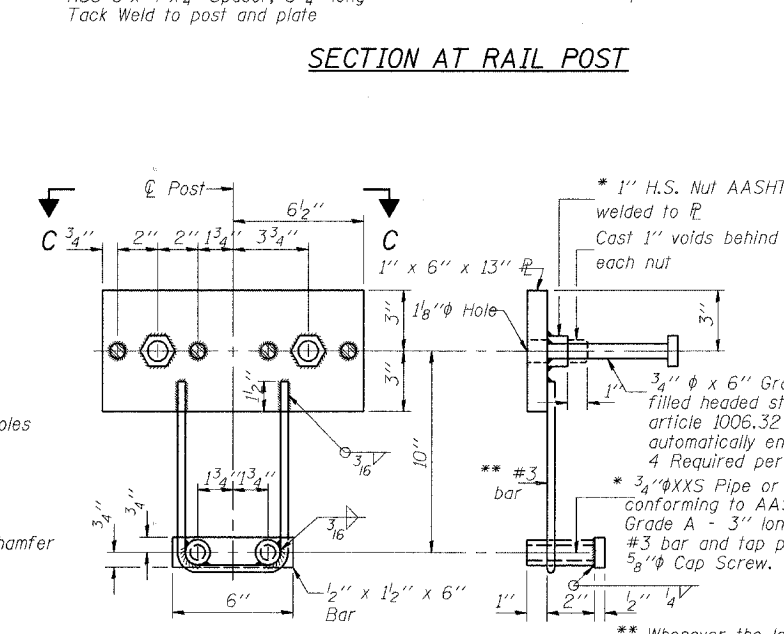
SECTION A-A



SECTION AT RAIL POST



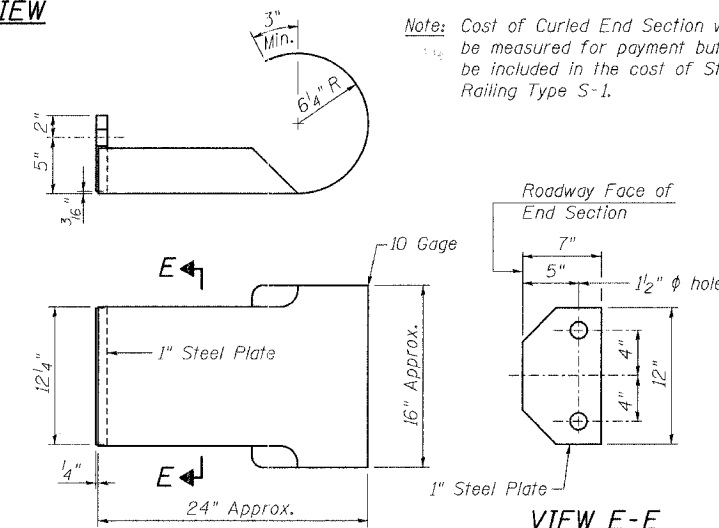
SECTION B-B



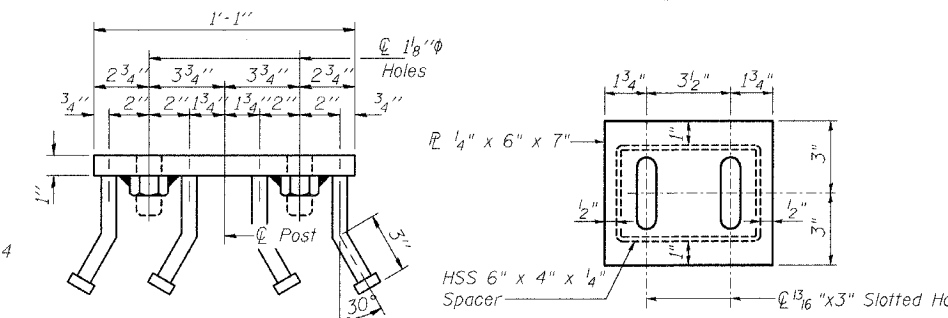
ANCHOR DEVICE

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

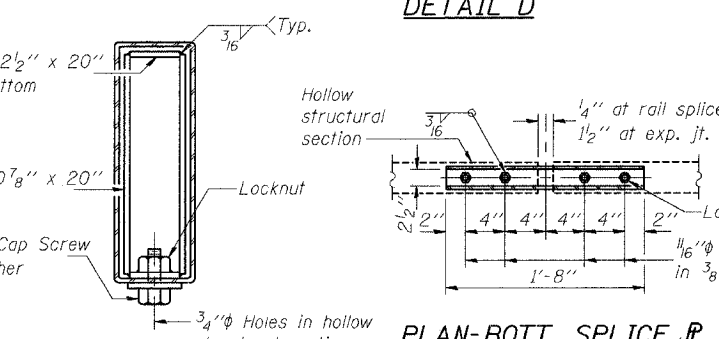
\*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising, or lowering of the lower inserts. Maximum adjustment not to exceed 1/2 inch.



CURLED END SECTION DETAILS



VIEW C-C



SECTIONS AT RAIL SPLICE

DETAIL D

PLAN-BOTT. SPLICE TYPICAL

FILE NAME = J:\05228\DRAWINGS\SN0113405\SN0113405.dgn  
PLOT DATE = 6/27/06  
PLOT TIME = 2:04:58 PM  
OPERATOR = michellel