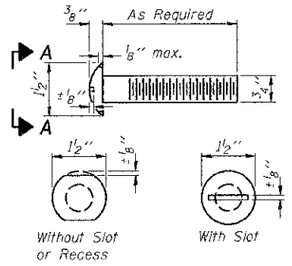
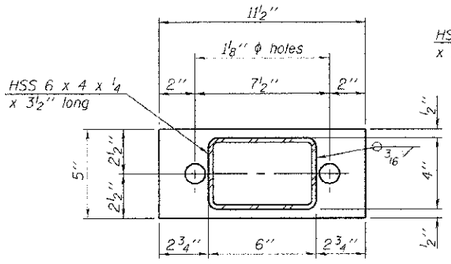
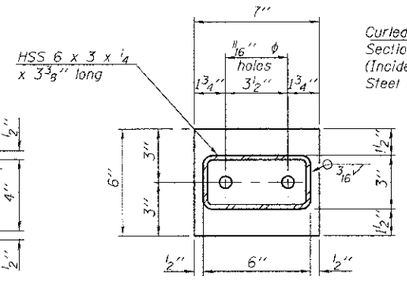



VIEW A-A
ROUND HEAD BOLT

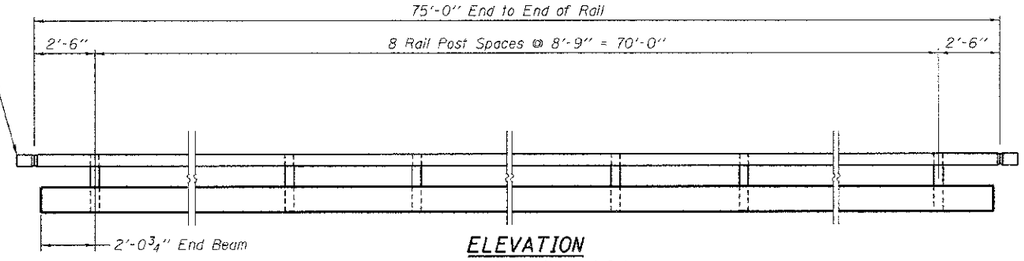



℄ 1/2" x 11 1/2" x 5"

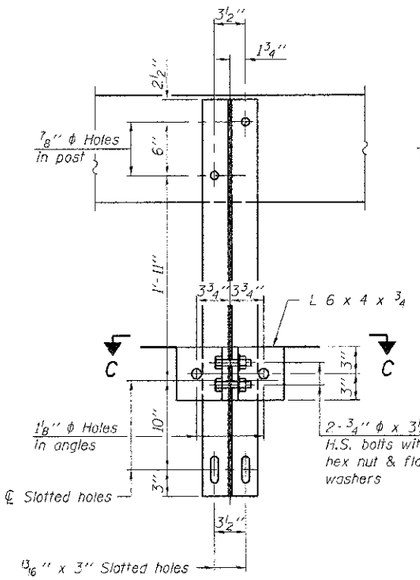



℄ 1/2" x 7" x 6"

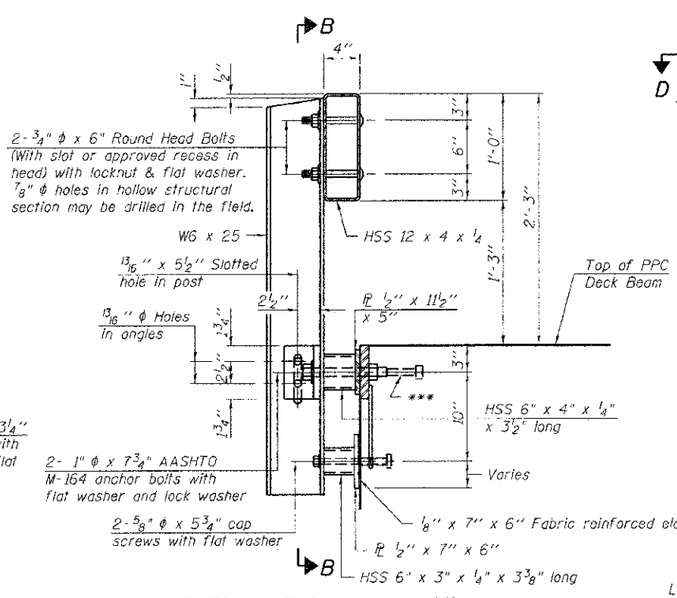
Curled End Section (Typ.) (Incidental with Steel Railing)



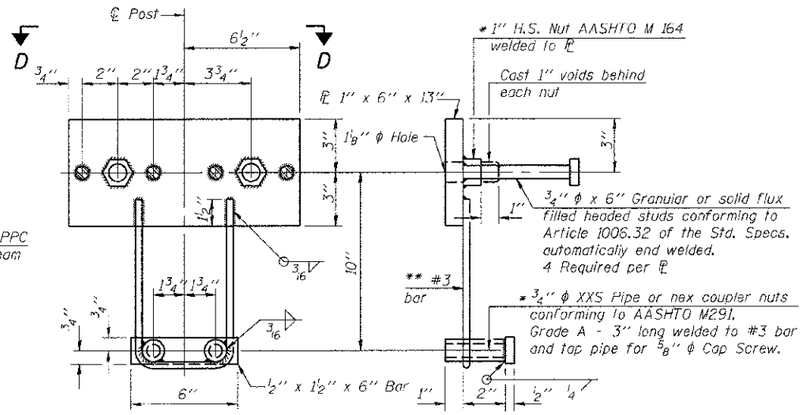

ELEVATION
Showing Inside Face of Rail




SECTION B-B




SECTION AT RAILING POST




ANCHOR DEVICE

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

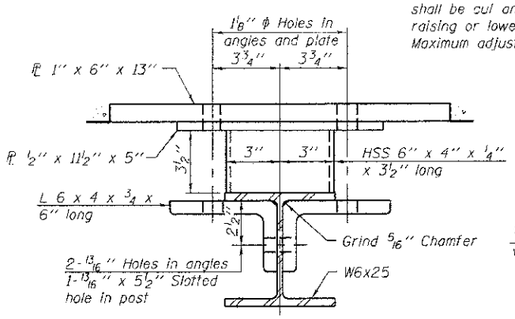
Notes:

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 S-1.

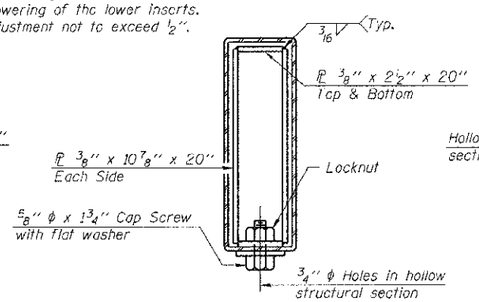
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

*** 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.

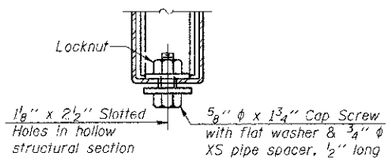



SECTION C-C

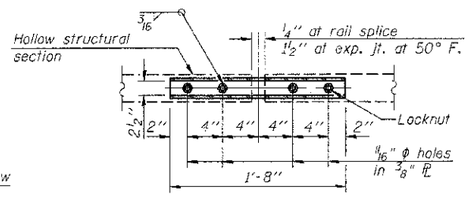
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



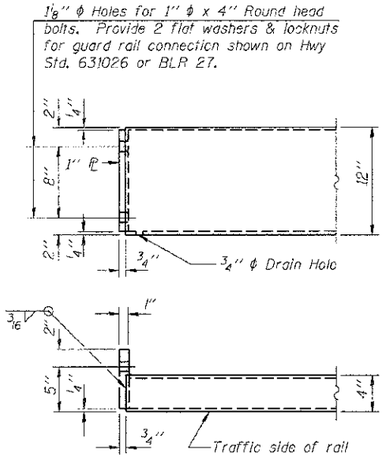

SECTIONS AT RAIL SPLICE



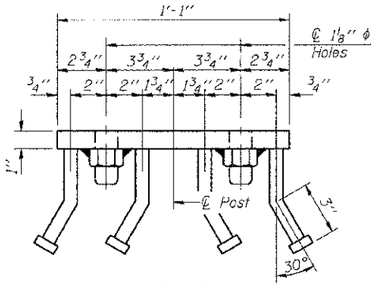

RAIL SPLICE CONNECTION AT EXPANSION JT.




PLAN-BOTT. SPLICE ℄ TYPICAL




END OF RAIL DETAILS




VIEW D-D

BILL OF MATERIAL

| Item | Unit | Quantity |
|---|---|---|
| Steel Railing, Type S-1 | Foot | 150 |

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FUHRMANN ENGINEERING INC.
2852 SOUTH 11TH STREET
SPRINGFIELD, IL. 62703
(217) 529-5517

| USER NAME = | DESIGNED - | REVISED - |
|---|---|---|
| | CHECKED - | REVISED - |
| PLOT SCALE = | DRAWN - | REVISED - |
| PLOT DATE = | CHECKED - | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE S-1**
**SN 011-3408**
Sheet No. 4 of 8 sheets.

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 57 | 06-03111-00-BR | CHRISTIAN | 17 | 7 |
| | | CONTRACT NO. 93601 | | |
| | ILLINOIS FED. AID PROJECT | | | |