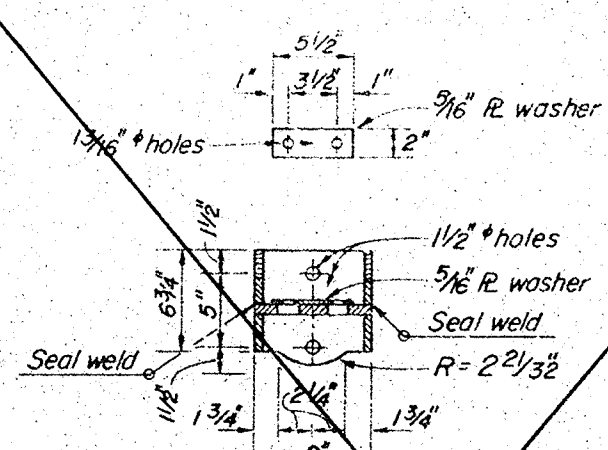
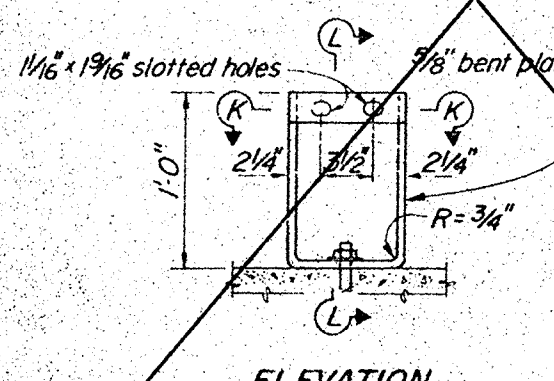




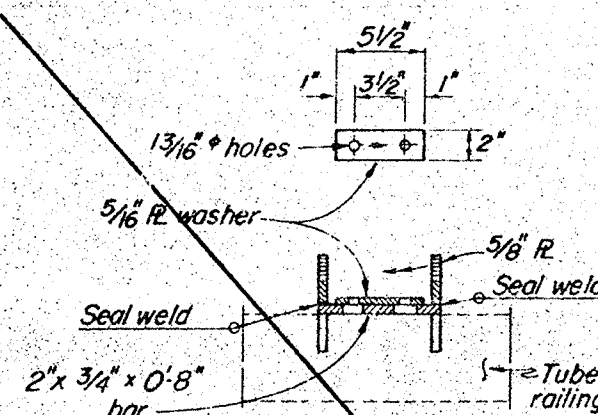
SECTION K-K



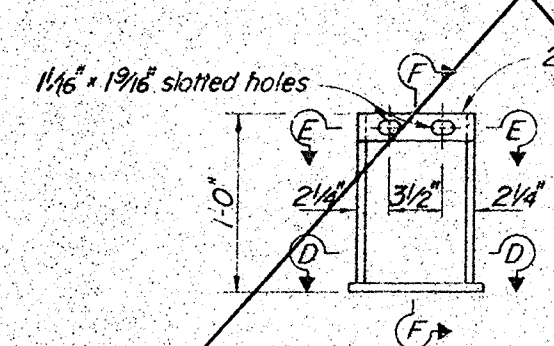
ELEVATION

ALTERNATIVE RAIL POST DETAILS TYPE 9

These details apply to Barrier Railing Types 9 and 12



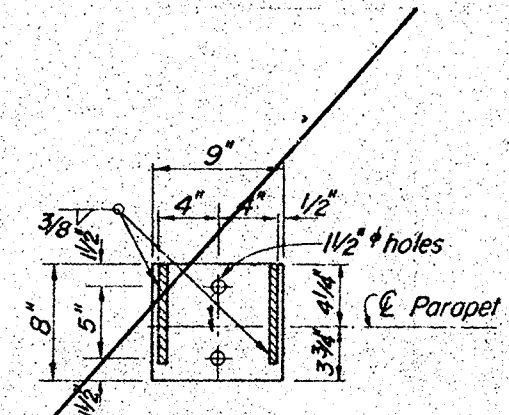
SECTION E-E



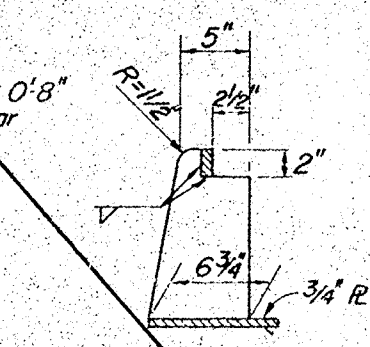
ELEVATION

RAIL POST DETAILS TYPE 9

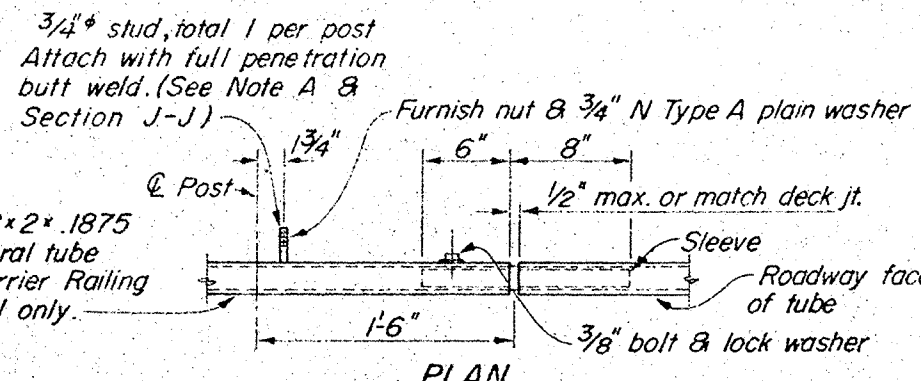
These details apply to Barrier Railing Types 9 & 12



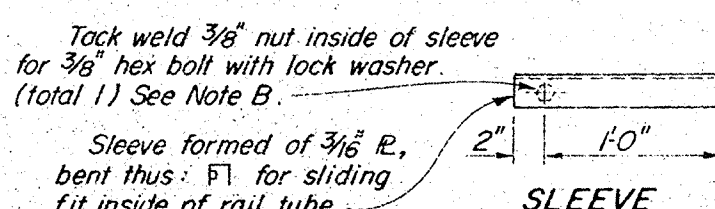
SECTION D-D



SECTION F-F



PLAN



SLEEVE

Note A:
3/8" studs may be used with 2x2 tube in lieu of 3/4" studs. Decrease post slotted hole size to 3/8" x 1 1/8" and use 3/8" W Type A plain washers.

Note B:
3/8" hex nut tack welded to inside of sleeve may be replaced by a drilled and tapped hole to accept the 3/8" bolt.

Tack weld 3/8" nut inside of sleeve for 3/8" hex bolt with lock washer. (total 1) See Note B.

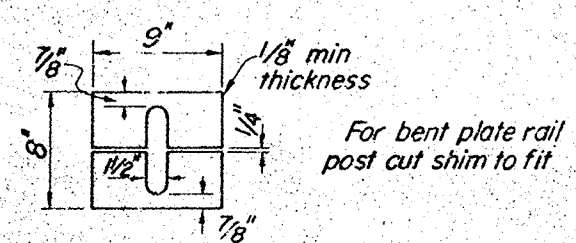
Sleeve formed of 3/16" R, bent thus: F1 for sliding fit inside of rail tube.

Tack weld 3/8" nut inside of sleeve for 3/8" hex bolt with lock washer. (total 1). See Note B.

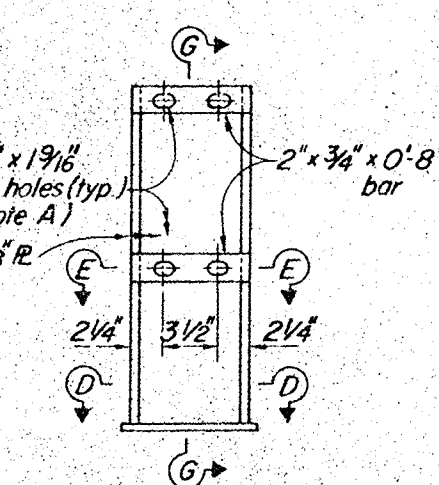
1/2" holes near & far side. Sleeve formed of 3/16" R, bent thus: for sliding fit inside of rail tube.

SLEEVE

DETAIL A - TUBE SPLICE



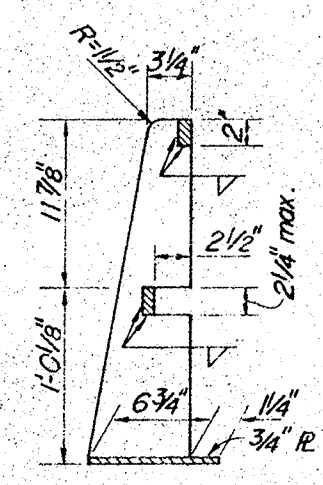
POST SHIM DETAIL TYPES 9 & 11



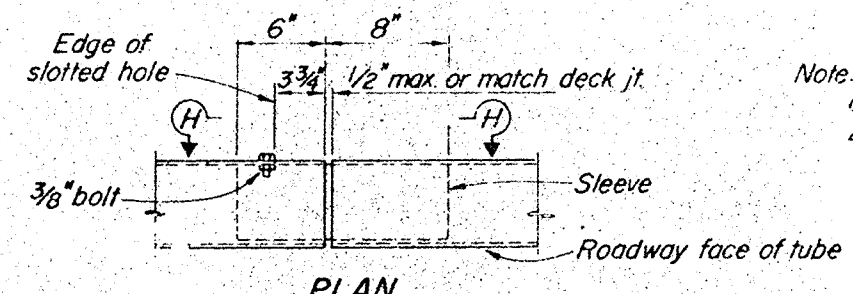
ELEVATION

RAIL POST DETAILS TYPE 11

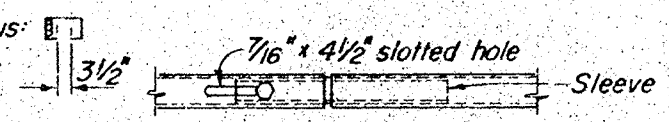
These details apply to Barrier Railing Types 11 & 9-11



SECTION G-G

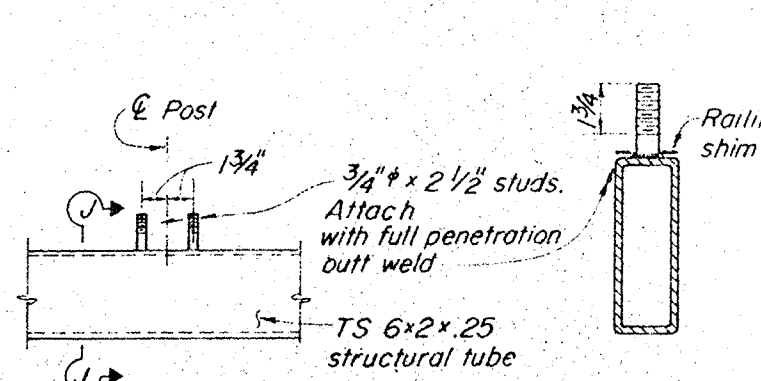


PLAN

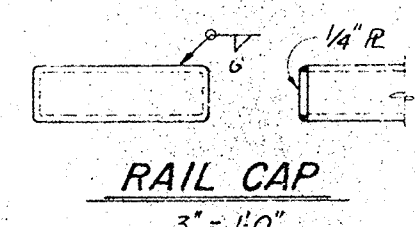


VIEW H-H

STUD BOLT DETAILS

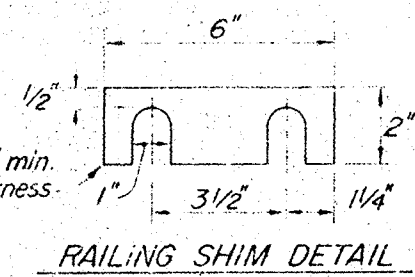


SECTION J-J

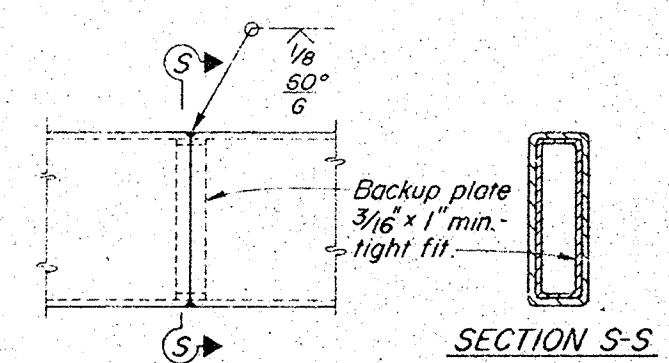


RAIL CAP

Note: Contractor may submit alternative detail for approval. Typical for 2x2 tube also.



RAILING SHIM DETAIL



SECTION S-S

TUBE - WELDED SPLICE

AS BUILT

WHILE THE INFORMATION SHOWN IS BELIEVED TO BE ACCURATE, THE ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY WILL NOT BE RESPONSIBLE FOR OMISSIONS, ERRORS, OR INACCURACIES.

Bridge Plans
Dr. #7 13329
Sheet 47 of 53
Red: 24.1
Type: ** Linen

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
ADAMS AVENUE BRIDGE OVER SANTA ANA RIVER	
BARRIER RAILING TYPE II DETAILS	
AS SHOWN	SHEET 47 OF 53

DRAWING 13329