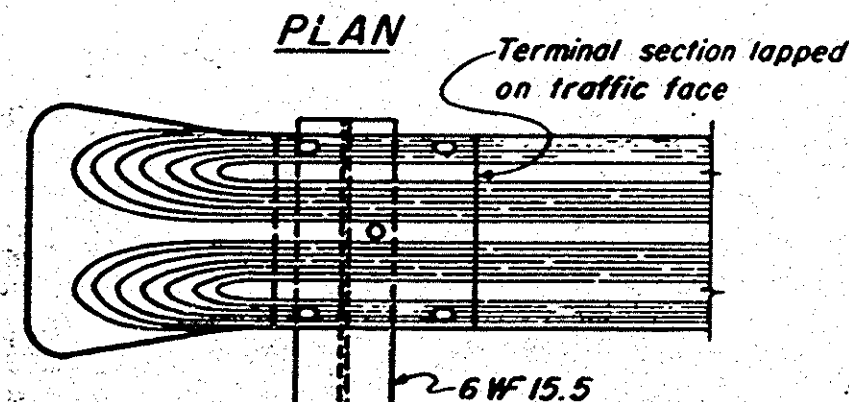
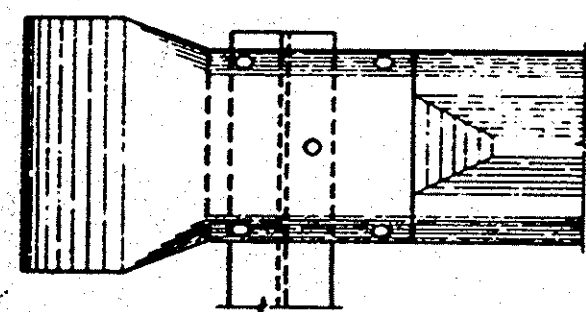


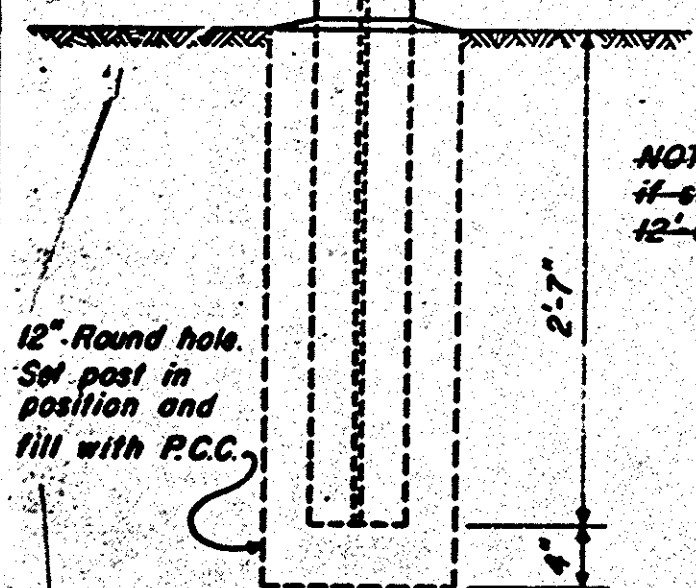


*-Terminal section lapped
on traffic face*

6 HF 15.5



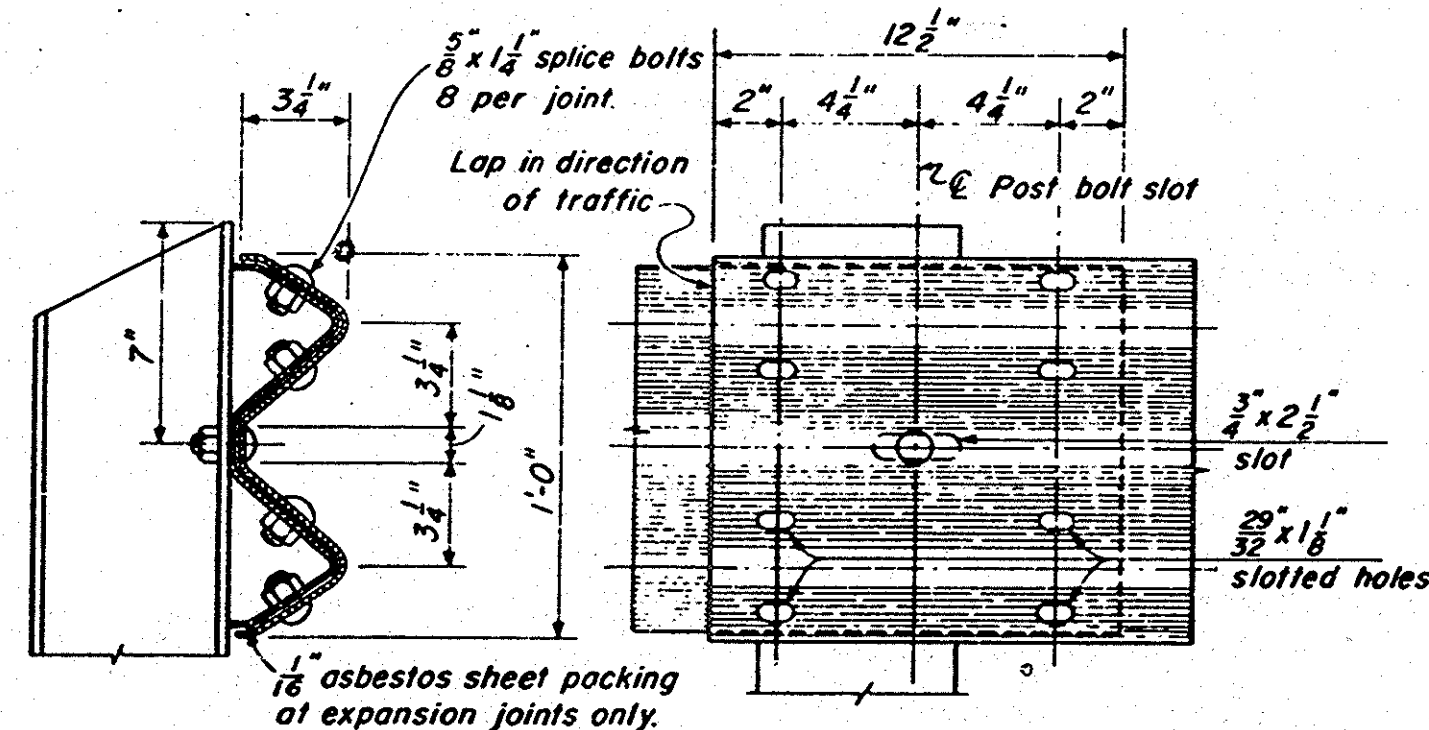
~~NOTE: Place and post on shoulder if structure does not accommodate 12' 6" unit length.~~



END POST ON SHOULDER

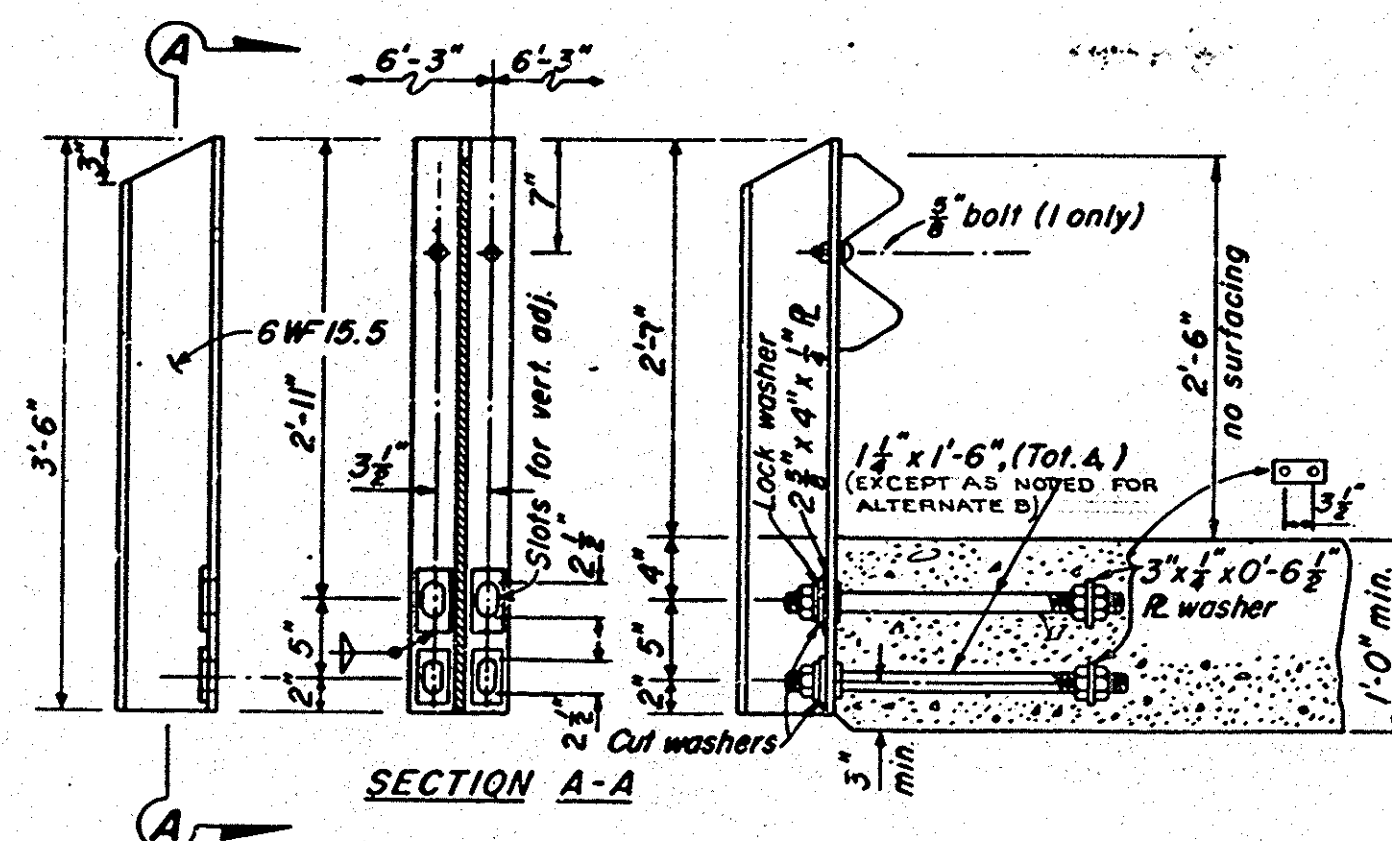
SCALE: 1 1/2" = 1'-0"

**NO POSTS ON APPROACHES
IN THIS CONTRACT**



ELEVATION

Scale: 3" = 1'-0"



SCALE: $1\frac{1}{2}" = 1'0"$

Letter No 8, Aug
Dear Mr. Lee, please
Send 11 of 17
and 27, 511 So to be shown
to the

At rail splice nearest expansion joint in bridge deck, slot holes in movable section of rail to allow same amount of movement as is provided in bridge deck. Place $\frac{1}{16}$ " asbestos sheet packing between rail elements. Adjust bolts to provide sliding fit and set threads.

Use 3'-6" posts whenever possible. All anchor rods to have hex. nuts. Provide lock washers for top anchor rods. Weld $2\frac{3}{8}" \times 4\frac{1}{2}"$ plates on W- posts when using $1\frac{1}{4}"$ anchor rods. Contractor to provide metal shims to align posts. Space posts to clear expansion joints by 1'-0" min. to E post. Posts and anchors to be galvanized after fabrication. Railings on retaining walls to be placed after walls are backfilled. Bend rods if necessary to maintain minimum clearance on super-elevated slabs.

See Special Provision for rail element.

Shims for post alignment shall be galvanized wedges.

SEE SHEETS #2 AND #4 FOR GUARD RAIL POST LAYOUT
USE: 4-1 1/2" X 1-6" ANCHOR BOLTS PER POST
TOTAL: 956'-3" L.F. OF RAIL/SIDE + TERMINALS, 154 POST/SIDE.

RIGHT SIDE OF BRIDGE (STARTING ON EITHER END):
PLACE FIRST POST 3'-4" FROM E ABUTMENT, TOWARD
CHANNEL.
LEFT SIDE OF BRIDGE (STARTING ON EITHER END):
PLACE FIRST POST 1'-0" FROM E ABUTMENT, TOWARD
CHANNEL. (SEE SHEET #18)
IF ANY POST FALLS WITHIN 1' OF THE E OF ANY PIER, RE-
LOCATE IT 1' MIN. CLEAR OF THE PIER. STRADDLE
THAT POST WITH A 12'-8" STD. LENGTH OF RAIL, DRILL NEW
HOLE AT CENTER POST LOCATION. 6'-3" STD. LENGTHS
OF RAIL MAY BE USED WHERE REQUIRED. CUTTING OF
RAIL WILL NOT BE ALLOWED.
USE: 2 - 2" x 1'-6" ANCHOR BOLTS (TOP BOLTS)
2 - 2" x 1'-0" ANCHOR BOLTS (BOTTOM BOLTS) PER POST
TOTAL: 956'-0" L.F. OF RAIL/SIDE + TERMINALS, 154 POST/SIDE

ALFROSTI MET

DEC 28 1964

AS BUILT

ORANGE COUNTY HIGHWAY DEPARTMENT

DOWLING AVENUE BRIDGE ACROSS SANTA ANA RIVER

RAIL DETAILS

SCALE	NOTED	SHEET NO.
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SA 8