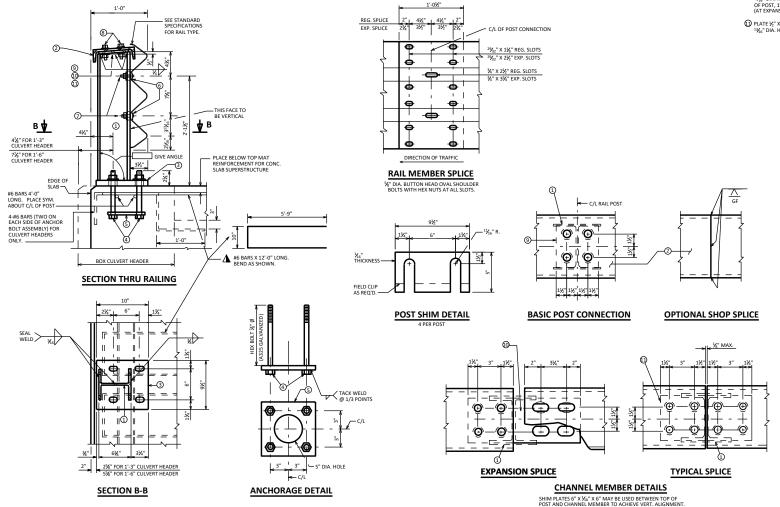


ELEVATION OF RAILING



LEGEND

- W6x25 WITH 2 ¾" x 2½" VERT. SLOTS IN FLG. (SLOT ON OTHER SIDE OF WEB IS OPTIONAL) FOR NO.7 CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POSTS VERTICAL AND NORMAL TO GRADE LINE.
- ② C8x11.5 WITH ¹³X₆" DIA. HOLES FOR NO. 8.
- 3 BASE PLATE 1" X 9½" X 10" WITH 1½,6" X 1½" SLOTTED HOLES FOR ANCHOR BOLTS NO.4 WELD TO NO.1 AS
- (a) A225 ½" HER BOLTS (GALVANIZED) WITH A235 NUT AND WASHER 14" LONG AT END POSTS AND AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 15". USE 8" LONG AT ALL OTHER LOCATION. A RECUP, PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO.3 CHAMFER TOP OF BOLTS BEFORE THREAD INDICATION.
- 6 1¾" X 3" MOUNTING BOLT WASHER (GALVANIZED).
- ⑧ ¾" DIA. X 2" HEX BOLTS WITH NUT AND TWO WASHERS EACH.
- 9 PLATE $\frac{1}{2}$ " X 5 $\frac{1}{4}$ " X 6" AT BASIC POST CONNECTION. 1 $\frac{1}{4}$ " DIA. HOLES IN PLATE. $\frac{1}{2}$ 16" DIA. HOLES IN CHANNEL.
- PLATE ½" X 5¾" X 11½". 1½" DIA. HOLES IN PLATE, 1¾6" DIA. HOLES IN CHANNEL. (AT TYPICAL SPLCE.)

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE W"
WHICH INCLUDES ALL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL MATERIAL EXCEPT ANCHORAGE DETAIL NO. 5 SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS AND CHANNELS SHALL BE GIVEN A NO. 6 COMMERCIAL BLAST CLEANING BY SSPC SPECS.

ALL MATERIAL USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE

FILL BOLT SLOT OPENINGS IN POST SHIMS & PLATE NO. 3 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

SEE STANDARD SPECIFICATIONS FOR RAIL TYPE.

CHANNEL MEMBER SHALL BE ATTACHED CONTIN-UOUSLY TO A MINIMUM OF FOUR POSTS AND A MAXIMUM OF EIGHT (EXCEPT AT ABUTMENTS).

AT EXPANSION SLOTS IN RAIL AND CHANNEL MEMBERS, TIGHTEN BOLTS, BACK OFF ONE HALF TURN AND BURR THREADS. RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC AND THE UPPER RAIL.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D. FOR ALIGNMENT.

SEE BRIDGE MANUAL 30.2 FOR ALLOWED USE.

- ▲ TIE TO TOP MAT OF STEEL. PUT THESE BARS IN BILL OF BARS FOR SUPERSTRUCTURE. NOT REQ'D. FOR BOX CULVERT HEADERS.
- PAY LIMITS FOR TYPE "W" STEEL RAILING.

WEIGHT = 45 LB/FT

STEEL RAILING TYPE 'W'



APPROVED: Laura Shadewald

1-24