

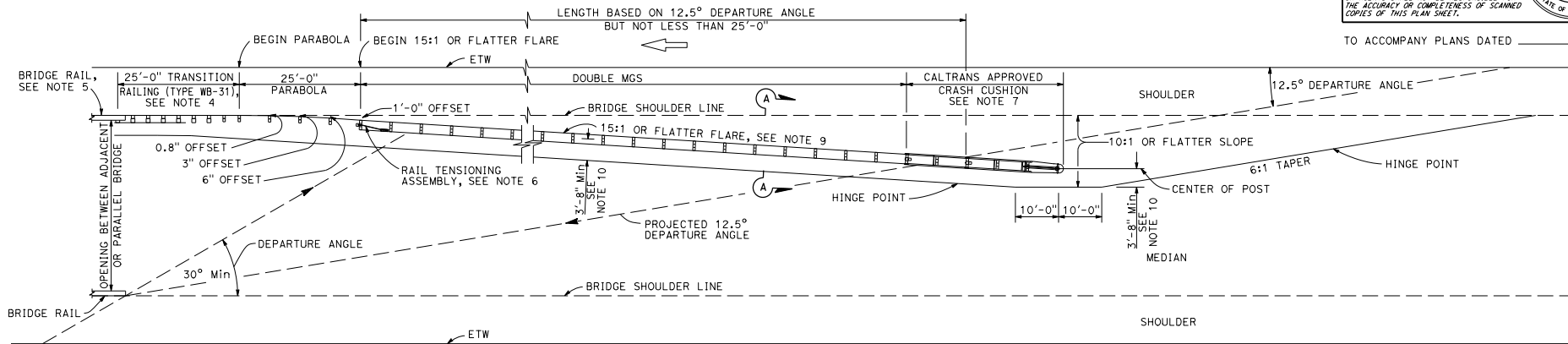
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

January 20, 2017
PLANS APPROVAL DATE

No. C50200
Exp. 6-30-17
CIVIL

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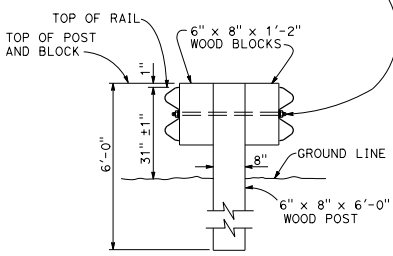


TO ACCOMPANY PLANS DATED _____

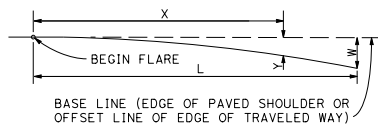
TYPE 12E LAYOUT

See Note 9

5/8" Ø BUTTON HEAD BOLT WITH Hex NUT OR
5/8" Ø ROD, THREADED BOTH ENDS, WITH
Hex NUTS. 1/2" Max EXPOSED THREADS
AFTER Hex NUT(S) TIGHTENED. NO WASHER ON
RAIL FACES FOR BOLTED CONNECTION TO LINE POST



SECTION A-A
TYPICAL DOUBLE MIDWEST
GUARDRAIL SYSTEM

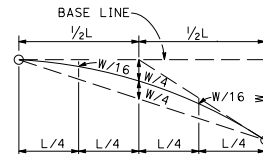


BASE LINE (EDGE OF PAVED SHOULDER OR
OFFSET LINE OF EDGE OF TRAVELED WAY)

$y = \frac{wx^2}{L^2}$

Y = OFFSET FROM BASE LINE
W = MAXIMUM OFFSET
X = DISTANCE ALONG BASE LINE
L = LENGTH OF FLARE

PARABOLIC FLARE OFFSETS



TYPICAL PARABOLIC LAYOUT

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans RSP A77L1, RSP A77L2, RSP A77N1, RSP A77N2, and Standard Plan A77M1.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 8.5 or W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood line posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- For Transition Railing (Type WB-31) details, see Standard Plan A77U4.
- For additional details of a typical connection to bridge rail, see Connection Detail AA on Standard Plan A77U1.
- For Rail Tensioning Assembly details, see Standard Plan A77S2.
- The type of Crash Cushion to be used will be shown on the Project Plans.
- Type 12E Layout is typically used left of approaching traffic at the end of each structure on multilane freeways or expressways where a median type barrier is not constructed between separated roadbeds.
- The 15:1 or flatter flare is measured off of the edge of traveled way.
- Use this offset for 8" block. For 12" block, use 4'-0" Min offset.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH

NO SCALE

RSP A77Q3 DATED JANUARY 20, 2017 SUPERSEDES STANDARD PLAN A77Q3
DATED OCTOBER 30, 2015 - PAGE 71 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP A77Q3

2015 REVISED STANDARD PLAN RSP A77Q3