Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

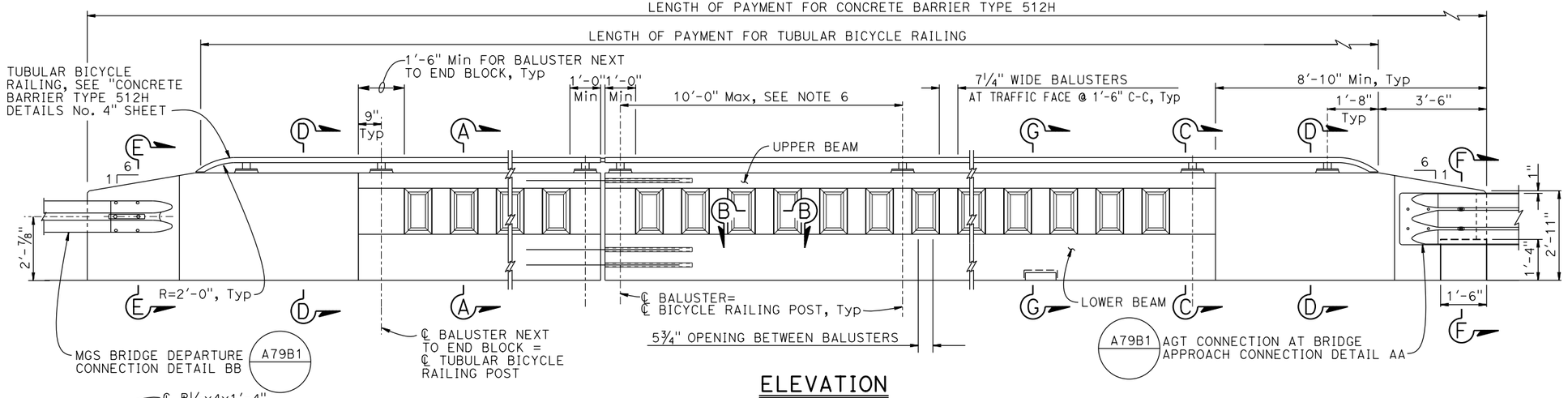
REGISTERED CIVIL ENGINEER — DATE X

PLANS APPROVAL DATE

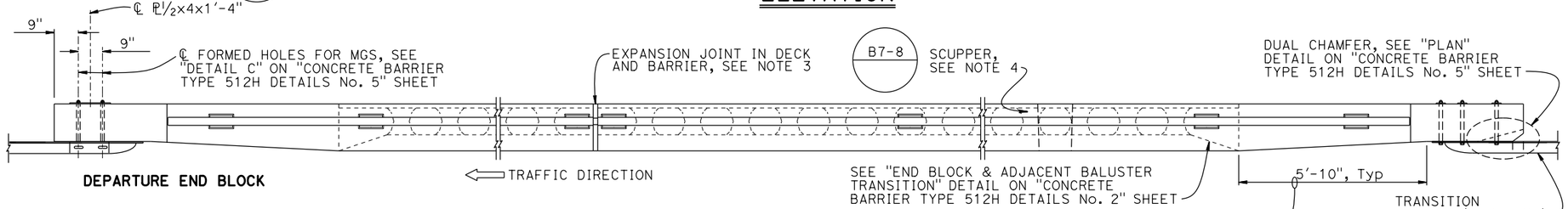
REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

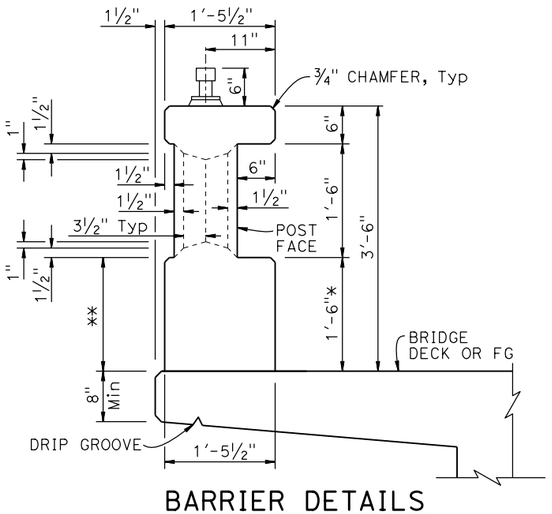
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.

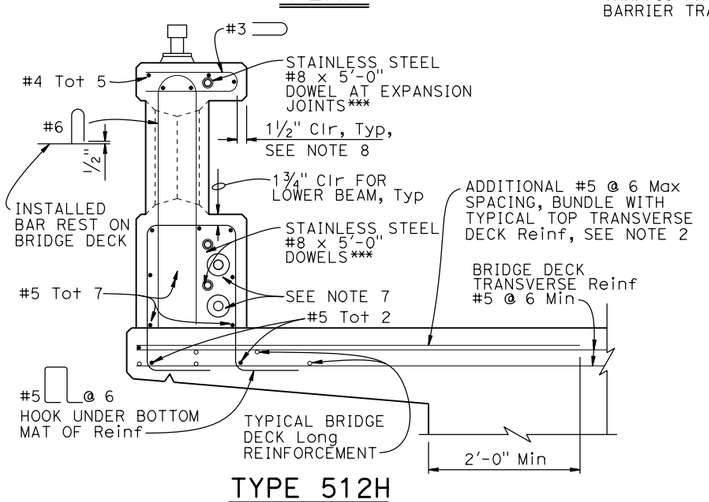


ELEVATION





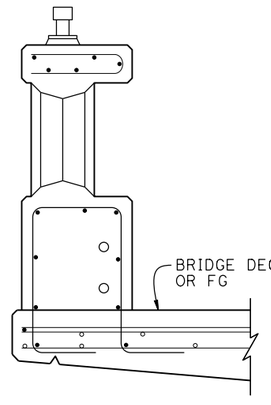
BARRIER DETAILS



PLAN

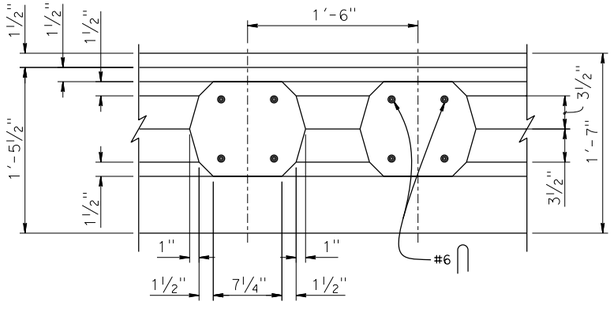
TYPE 512H

*** See "DETAIL AB" on "CONCRETE BARRIER TYPE 512H DETAILS No.3" sheet.



SECTION A-A

NOTE: Cut section at center of clear opening between balusters.



VIEW B-B

NOTE: Typical balusters except for balusters adjacent to expansion joint and end blocks.

NO SCALE

NOTES:

1. If departure end block is within the Clear Recovery Zone (CRZ) of opposing traffic (30 feet for expressways and freeways, and 20 feet for conventional highways), use the Approach End Block Transition detail for the departure end.
2. For additional reinforcement details, see "CONCRETE BARRIER TYPE 512H DETAILS No. 3" sheet.
3. Barrier joint width to match deck joint width, 1" Minimum.
4. Minimum clear spacing between scupper and deck or wall joint is 7'-0". Minimum clear spacing between scuppers is 20'-0". Bend conduits around scupper. For scupper details see "SECTION G-G" on "CONCRETE BARRIER TYPE 512H DETAILS No. 3"sheet.
5. For "SECTION C-C", "SECTION D-D" & "SECTION E-E", see "CONCRETE BARRIER TYPE 512H DETAILS No. 2" sheet. For "SECTION F-F", see "CONCRETE BARRIER TYPE 512H DETAILS No. 5" sheet.
6. Tubular bicycle railing span may vary, not to exceed 10'-0". For tubular bicycle railing details, see "CONCRETE BARRIER TYPE 512H DETAILS No. 4" sheet. Bicycle railing may be omitted for access controlled freeways and expressways where bicycle traffic is prohibited by signage on the on-ramps, the bicycle railing may be omitted if taller than 42" minimum bicycle railing is not required.
7. The maximum number of conduits is two 1½"ø and must be placed in front half of the lower beam curb. See also "CONDUIT IN BRIDGE RAILING" detail on Standard Plan "B14-3", "ES-9A", and "ES-9B". Expansion fittings/couplings on conduits shown are at expansion joints only.
8. 1½" clearance to reinforcement on all concrete barrier surfaces of the upper beam, and balusters.

* Dimension must be 1'-6" above top of Bridge Deck or FG (including overlay). Increase lower beam (curb) height by 2" Max to match overlay depth if overlay is placed in the same contract.

** Dimension from top of bridge deck to top of backside of lower beam (curb) is determined by bridge cross-slope and by thickness of deck overlay due to increase in lower beam (curb) height by 2" max to match overlay depth if placed on the same contract.

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

REINFORCED CONCRETE:
f_y = 60 ksi
f'_c = 4 ksi

BRIDGE STANDARD DETAILS		
xs16-137-1 (FILE No.)	July 2025 (APPROVAL DATE)	*The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California*

STATE OF CALIFORNIA — DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE No. XX-XXXX

POST MILE X.X

X

CONCRETE BARRIER TYPE 512H DETAILS No. 1

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

DATE PLOTTED => 1-JUL-2025 TIME PLOTTED => 08:49
FILE => xs-16-137-1.dgn USERNAME => s155182
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: XXXX COUNTY/ROUTE/ZONE: XXX/XXX/X
PROJECT NUMBER & PHASE: XXXXXXXXXX1 CONTRACT No.: XX-XXXX4

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
				X	X