

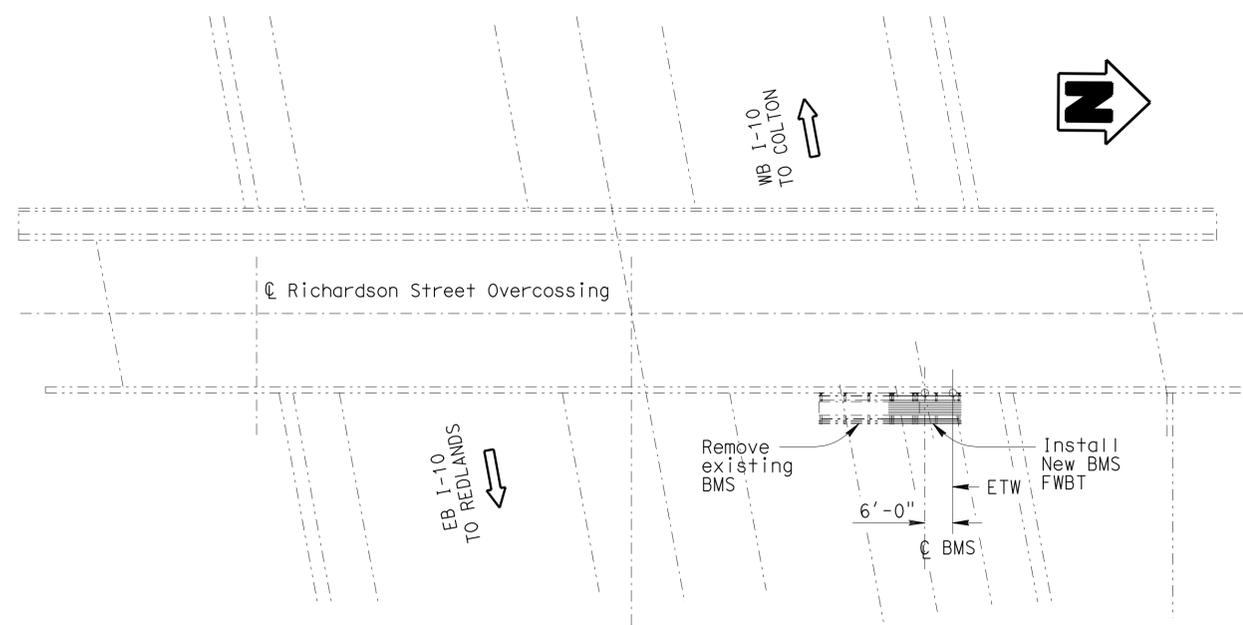
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans SPECIAL DESIGNS BRANCH	PROJECT ENGINEER	SUONG VU
	CALCULATED/DESIGNED BY	D VORA
	CHECKED BY	S VU
	DATE	1-21-09
	DATE	1-21-09
	DETAILS	A R DUDSAK
	QUANTITIES	D VORA

DIST	COUNTY	ROUTE	POST MILES	SHEET No	TOTAL SHEETS
08	SbD	10	26.8	38A	75

REGISTERED CIVIL ENGINEER
 SUONG T. VU
 No. C055212
 Exp. 6/30/10
 CIVIL
 STATE OF CALIFORNIA

6/2/10 DATE
 3-10-10 PLANS APPROVAL DATE

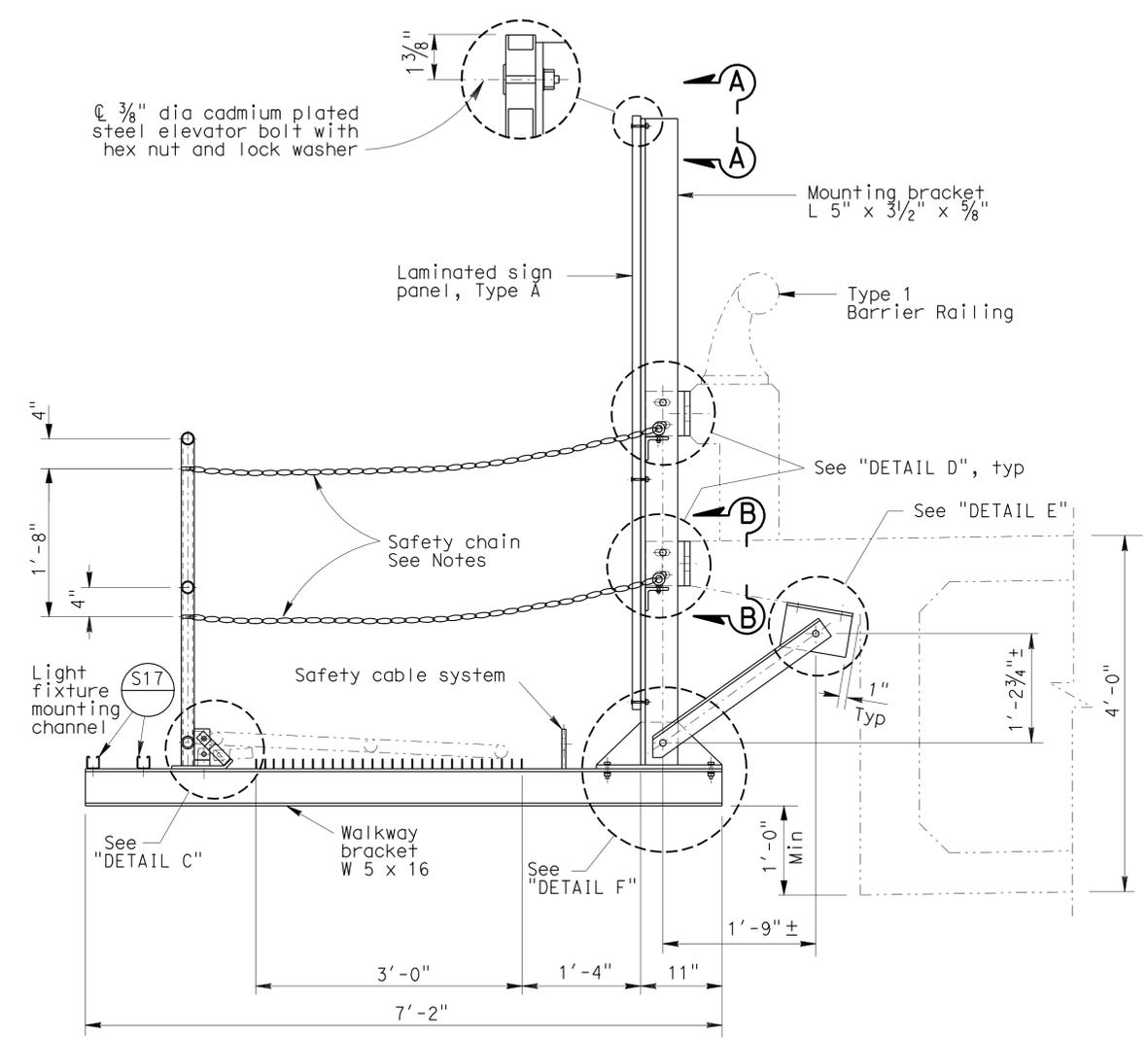
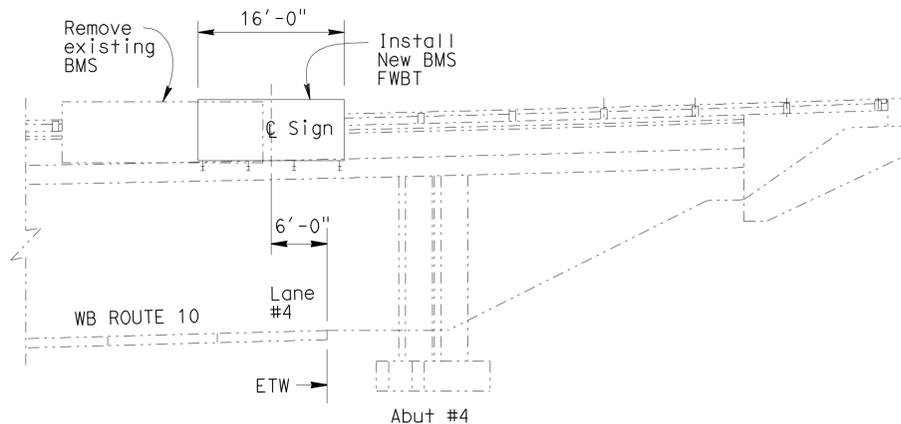
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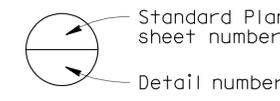
LEGEND:
 - - - Existing structure.
 — New structure.

STANDARD PLANS DATED MAY 2006
 A10A ACRONYMS AND ABBREVIATIONS (A-L)
 A10B ACRONYMS AND ABBREVIATIONS (M-Z)

- NOTES:**
- For details not shown see "STANDARD PLANS MAY 2006".
 - Unless otherwise shown, all steel shall be galvanized after fabrication.
 - Min size fillet weld is 1/4" or thickness of thinner part unless noted otherwise.
 - Contractor to provide anchor bolt layout before anchor bolts are placed.
 - All high strength (HS) bolts shall be snug tight.
 - Special care shall be taken to insure that the complete hinge and latch assembly will hold the safety railing in a steady manner, free of wobble while in the raised position. Max allowable displacement from vertical at top of railing when latched shall be 1".
 - Safety chain shall be 1/4" galvanized steel coil chain, approximately 12 links per foot. Length shall be min which allows lock-up of safety railing. Min of two safety chains at each end of safety railing. Material shall be Grade 43 high test chain ASTM A413.
 - For "DETAIL C", SECTION A-A, and SECTION B-B, see "TYPICAL DETAILS No. 1" sheet.
 - For "DETAIL D", "DETAIL E", "DETAIL F", see "TYPICAL DETAILS No. 2" sheet.



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



2 ADDED PER ADDENDUM NO. 2 DATED JUNE 3, 2010

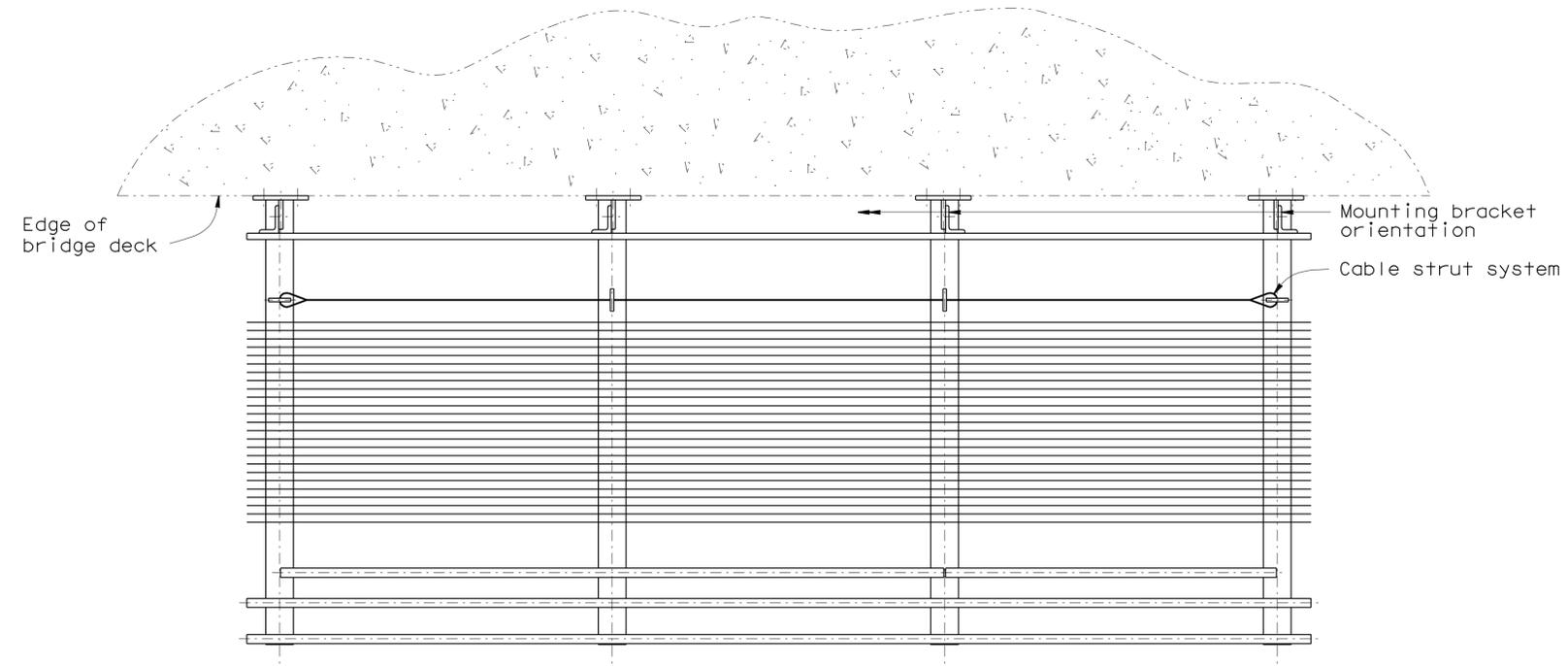
RICHARDSON STREET OVERCROSSING
 Bridge No. 54-0597
BRIDGE MOUNTED SIGN
LOCATION PLAN AND TYPICAL SECTION
 No Scale
SD-1

LAST REVISION: DATE PLOTTED => 03-JUN-2010
 TIME PLOTTED => 10:27
 1-9-09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans SPECIAL DESIGNS BRANCH	PROJECT ENGINEER	DESIGNED BY	DATE	DETAILS	A R DUDSAK
	SUONG VU	CHECKED BY	1-21-09	QUANTITIES	D VORA
			1-21-09		

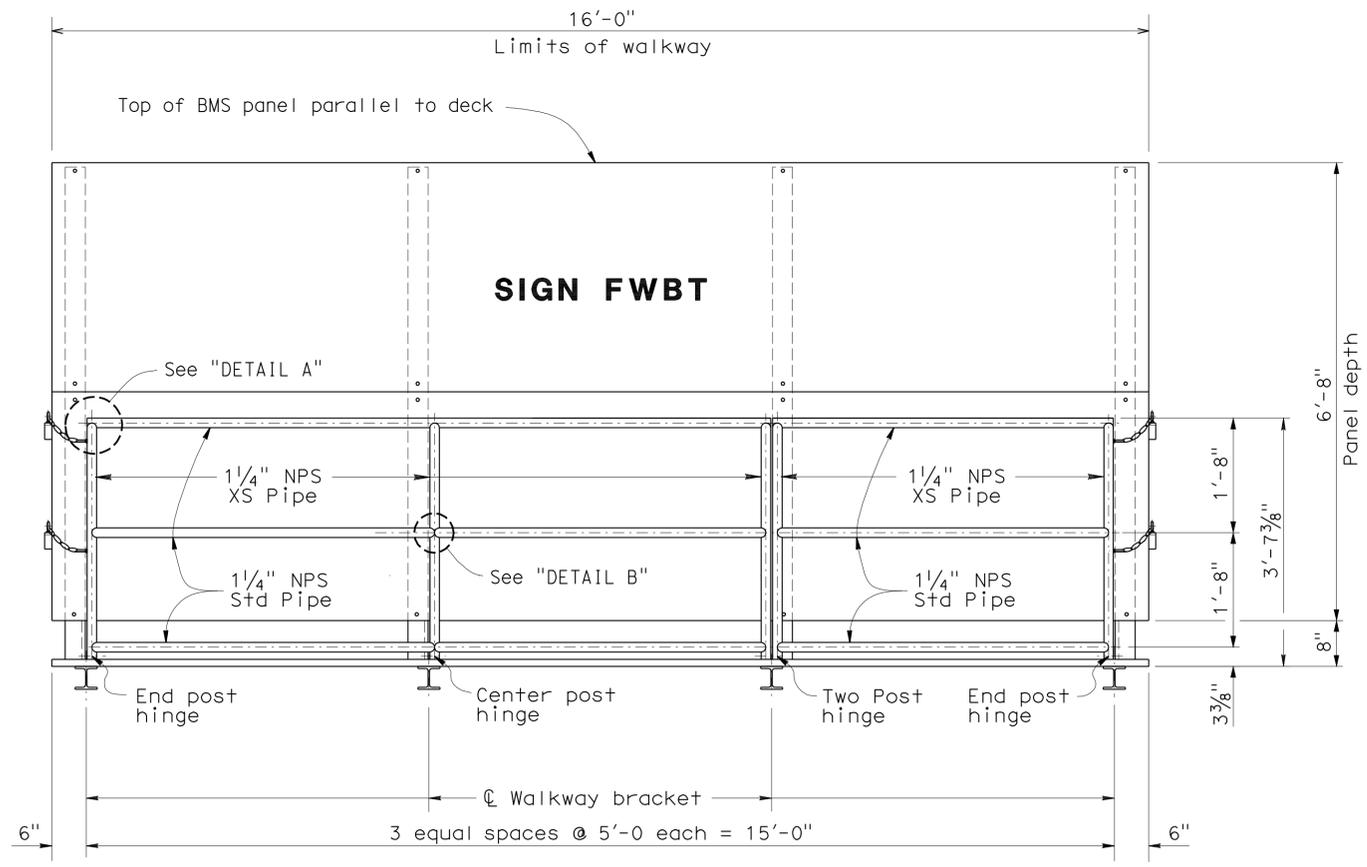
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DIST	COUNTY	ROUTE	POST MILES	SHEET No	TOTAL SHEETS
08	Sbd	10	26.8	38B	75
 REGISTERED CIVIL ENGINEER DATE 6/2/10					
3-10-10 PLANS APPROVAL DATE					
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PLAN VIEW

SCALE 1"=1'-0"



FRONT VIEW

SCALE 1"=1'-0"

2 ADDED PER ADDENDUM NO. 2 DATED JUNE 3, 2010

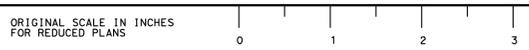
NOTE:

1. For "DETAIL A" and "DETAIL B", see "TYPICAL DETAILS NO.1" sheet.

NOTE:
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RICHARDSON STREET OVERCROSSING
Bridge No. 54-0597
BRIDGE MOUNTED SIGN ELEVATION DETAILS

SD-2



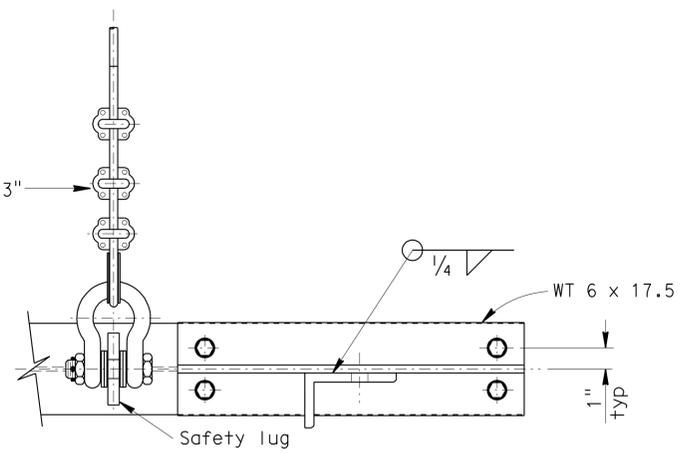
LAST REVISION DATE PLOTTED => 03-JUN-2010 TIME PLOTTED => 10:27 1-9-09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans SPECIAL DESIGNS BRANCH	PROJECT ENGINEER SUONG VU	CALCULATED/DESIGNED BY D VORA	CHECKED BY S VU	DATE 1-21-09	DETAILS A R DUDSAK
				1-21-09	QUANTITIES D VORA

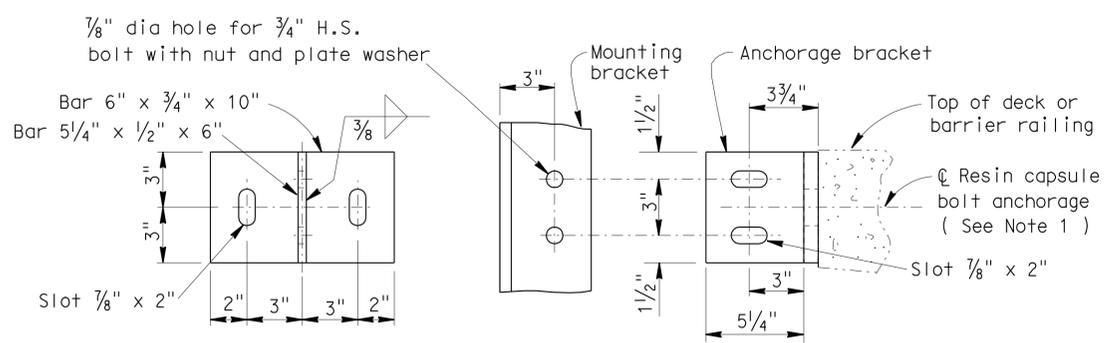
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DIST	COUNTY	ROUTE	POST MILES	SHEET No	TOTAL SHEETS
08	SBd	10	26.8	38D	75
 6/2/10 REGISTERED CIVIL ENGINEER DATE					
3-10-10 PLANS APPROVAL DATE					
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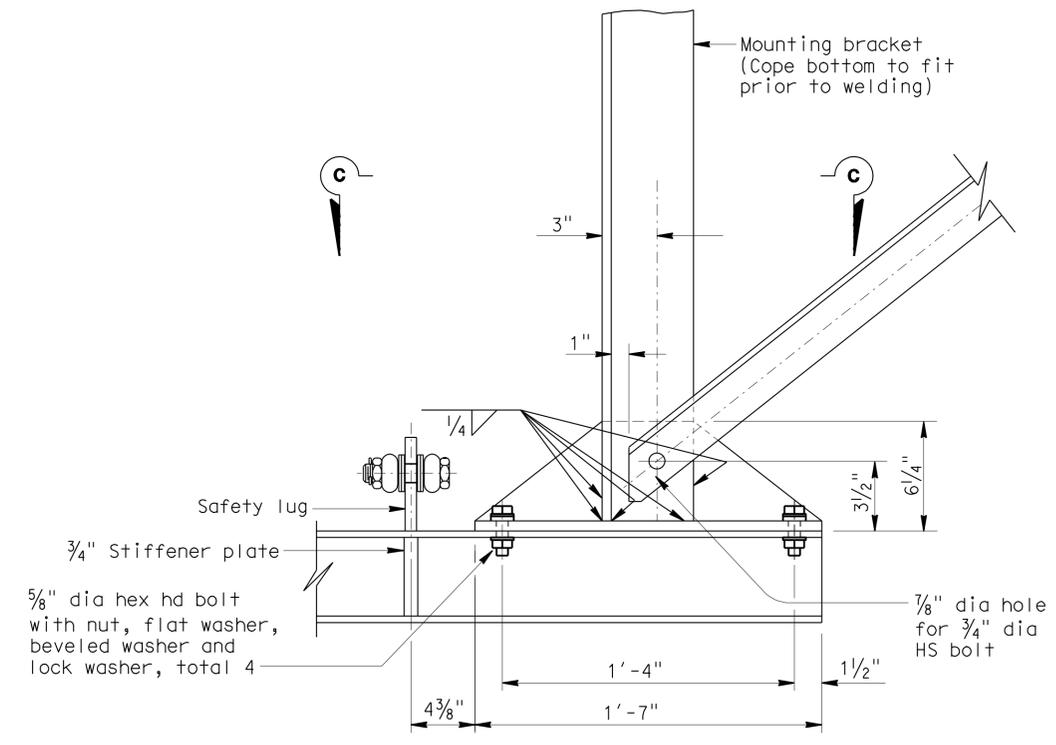
For safety cable details, see "TYPICAL DETAILS No. 3"



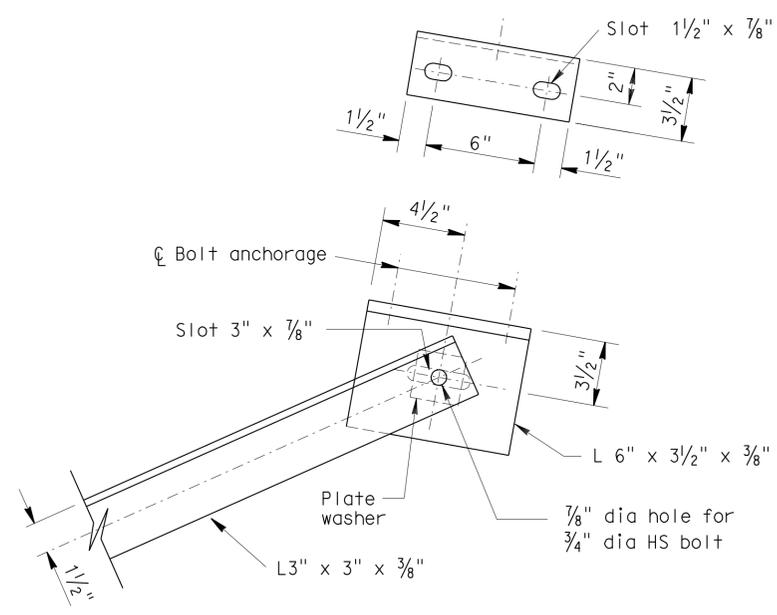
SECTION C-C



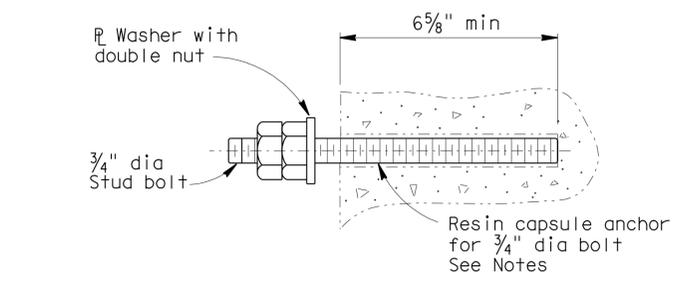
DETAIL D



DETAIL F



DETAIL E



RESIN CAPSULE BOLT ANCHORAGE

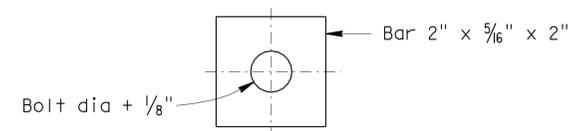


PLATE WASHER
FOR ALL SLOTTED HOLES

NOTE:
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NOTES:

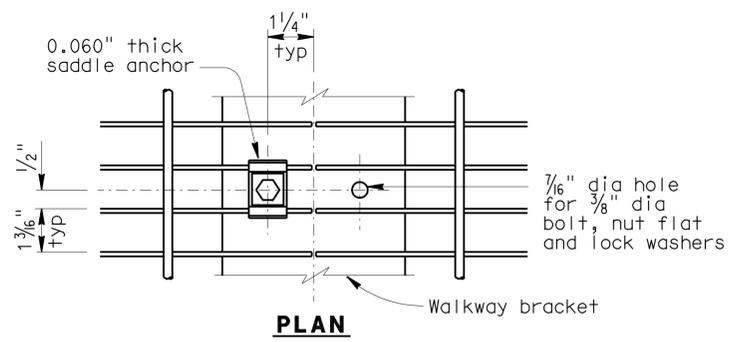
1. Resin capsule bolt shall not interfere with existing railing anchorages.
2. Resin capsule anchorage is subject to approval of engineer. Installation procedure shall comply with manufacturer's instructions.
3. Where new resin capsule bolt anchorage coincides with Type 7 fence post or existing bridge mounted sign anchorage, adjust new mounting bracket to create a minimum distance of 6" measured from the centerline of nearest resin capsule bolt anchorage to the centerline of fence post or existing bridge mounted sign anchorage, or as approved by the Engineer.
4. Existing bridge mounted sign anchors shall be cut flush with edge of deck by mechanical means. Damage to concrete surface resulting from cut shall be repaired at the Contractor's expense to the Engineers satisfaction. Cut ends of anchors shall be coated with 2 coats of zinc rich primer.
5. Resin capsule bolt anchors shall be installed in sound concrete free of cracks or delamination.

2 ADDED PER ADDENDUM NO. 2 DATED JUNE 3, 2010

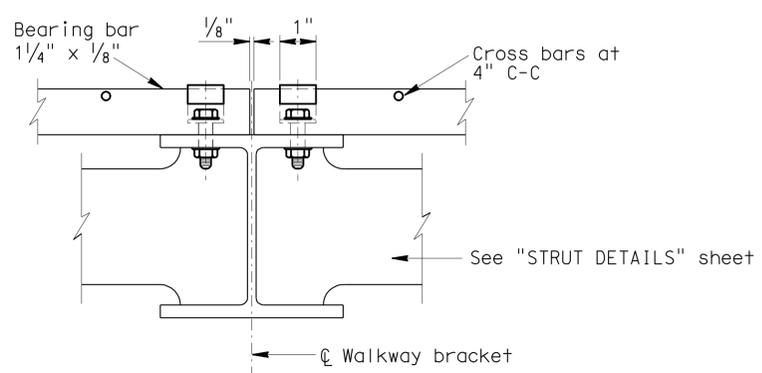
RICHARDSON STREET OVERCROSSING
Bridge No. 54-0597
BRIDGE MOUNTED SIGN
TYPICAL DETAILS NO. 2
No Scale
SD-4

2

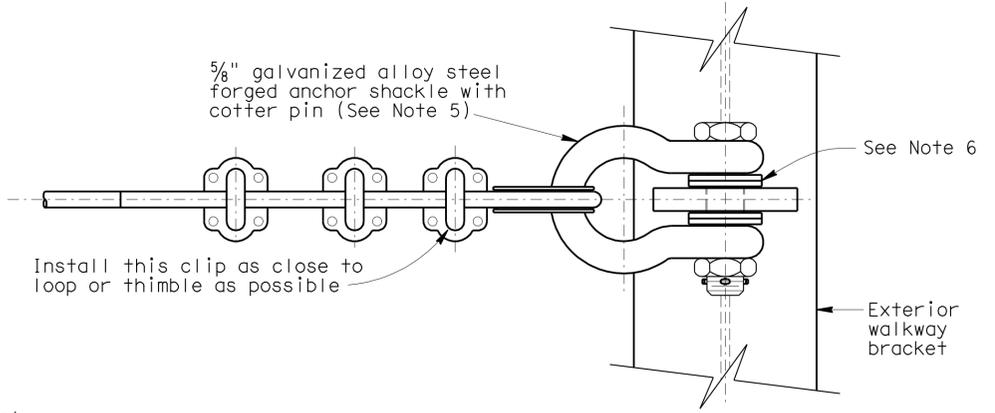
DIST	COUNTY	ROUTE	POST MILES	SHEET No	TOTAL SHEETS
08	SbD	10	26.8	38E	75
 REGISTERED CIVIL ENGINEER DATE 6/2/10				No. C055212 Exp. 6/30/10 CIVIL STATE OF CALIFORNIA	
3-10-10 PLANS APPROVAL DATE					
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PLAN

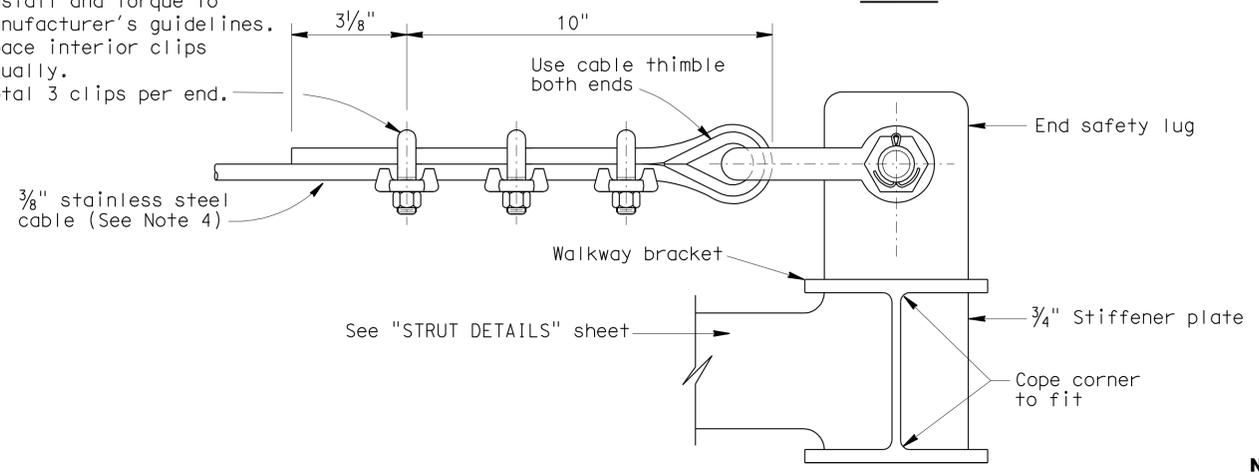


WALKWAY GRATING DETAILS
(Shown at splice)



PLAN

3/8" stainless steel wire rope clips. Install and torque to manufacturer's guidelines. Space interior clips equally. Total 3 clips per end.

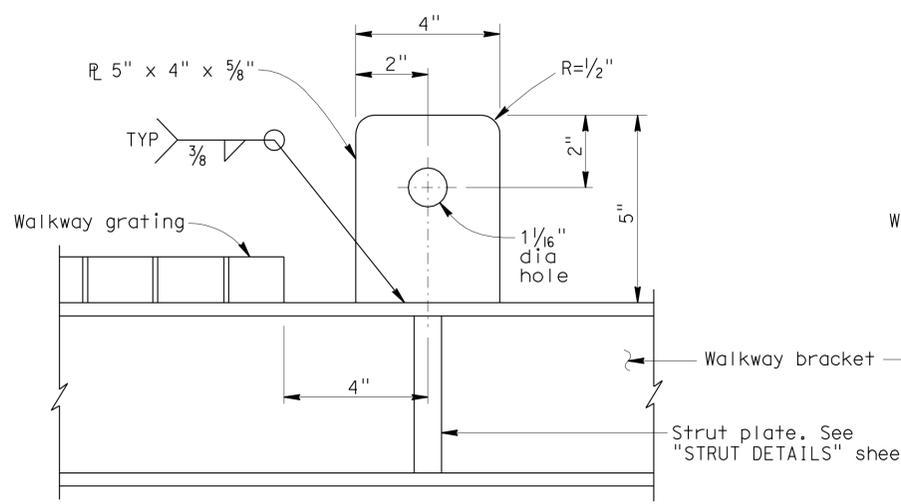


ELEVATION

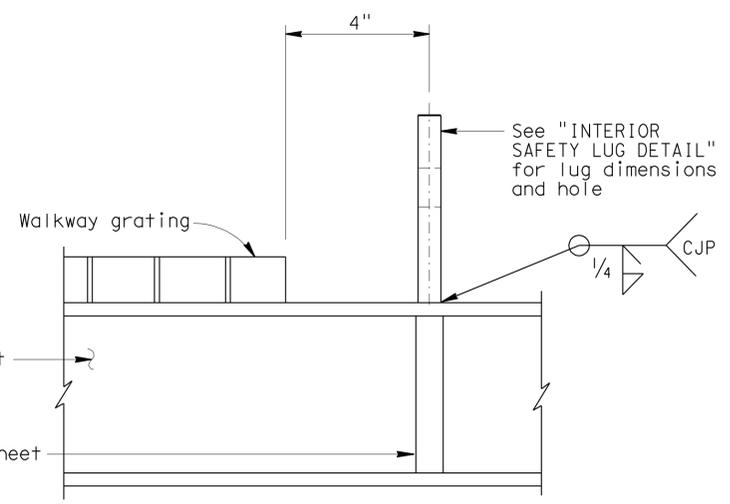
END VIEW SAFETY CABLE

NOTES:

1. Welded type grating shall have 1/4" x 1/8" bearing bars at 1 3/16" centers with 1/4" diameter (or equal) cross bars at 4" centers. If mechanical lock grating is used, it shall be equal in strength to the welded type. Alternate hold-down clips may be submitted to engineer for approval.
2. Walkway grating and light fixture mounting channels to be continuous (no splices) over as many walkway brackets as practical and consistent with fabrication, ease of handling and assembly.
3. Contractor may substitute 1 5/8" x 1 5/8" x .1084" cont-slot steel channel with pre-punched slots not larger than 1 1/2" x 3". Slots shall be at bottom of channel and shall be parallel to channel. Slots shall be spaced not closer than 4" center to center.
4. Stainless steel cable shall be 7 x 19 class strand core construction using Type 302 or 304 alloy stainless steel strands. Minimum cable breaking strength shall be 10,000 pounds. Cable shall be free of kinks, knots, or deformation and shall be continuous between end lugs. Splices not allowed. Safety cable shall not be prestretched.
5. Shackle shall be galvanized steel with working load limit of 10,000 pounds.
6. Place an equal amount of washers on each side to align cable with end lug without restricting shackle bolt rotation or contacting cable.
7. Prior to tightening cable clips at exterior anchorage, slack in cable shall be removed by the full effort of a typical construction worker.



INTERIOR SAFETY LUG DETAIL



END SAFETY LUG DETAIL

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2 ADDED PER ADDENDUM NO. 2 DATED JUNE 3, 2010

RICHARDSON STREET OVERCROSSING
 Bridge No. 54-0597
BRIDGE MOUNTED SIGN
TYPICAL DETAILS NO. 3
 No Scale

SD-5

LAST REVISION DATE PLOTTED => 03-JUN-2010
 TIME PLOTTED => 10:27
 1-9-09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans SPECIAL DESIGNS BRANCH
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 CHECKED BY S VU
 DATE 1-21-09
 1-21-09
 DETAILS QUANTITIES
 A R DUDSAK
 D VORA

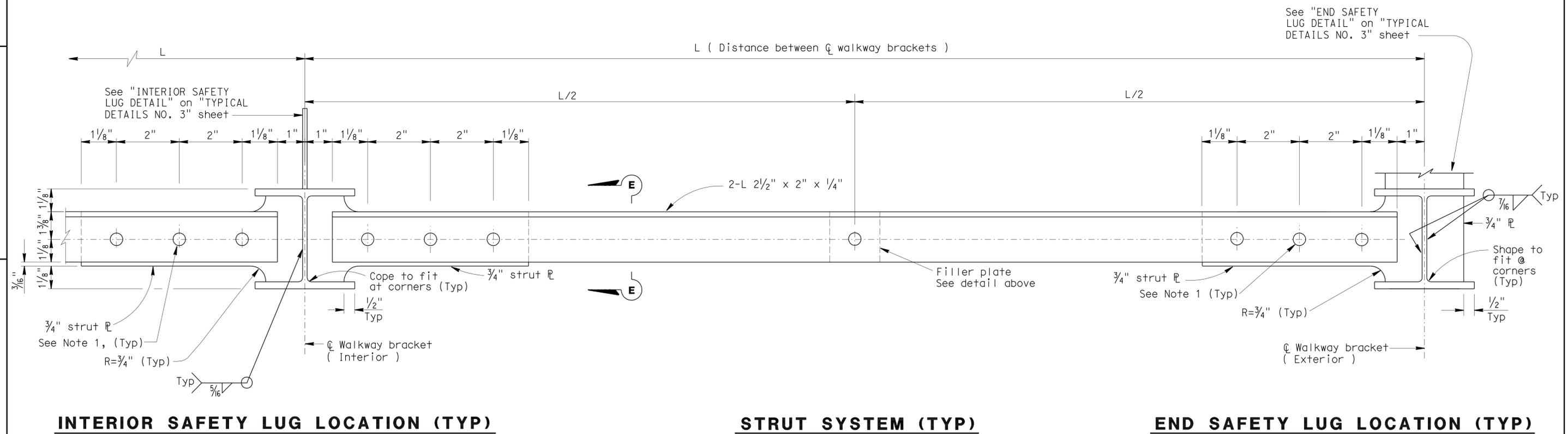
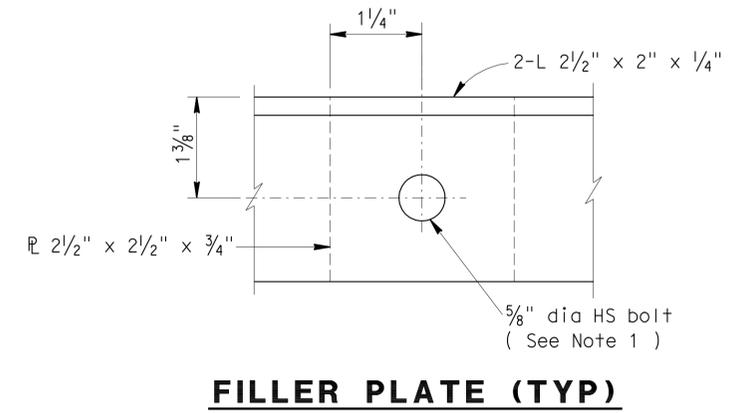
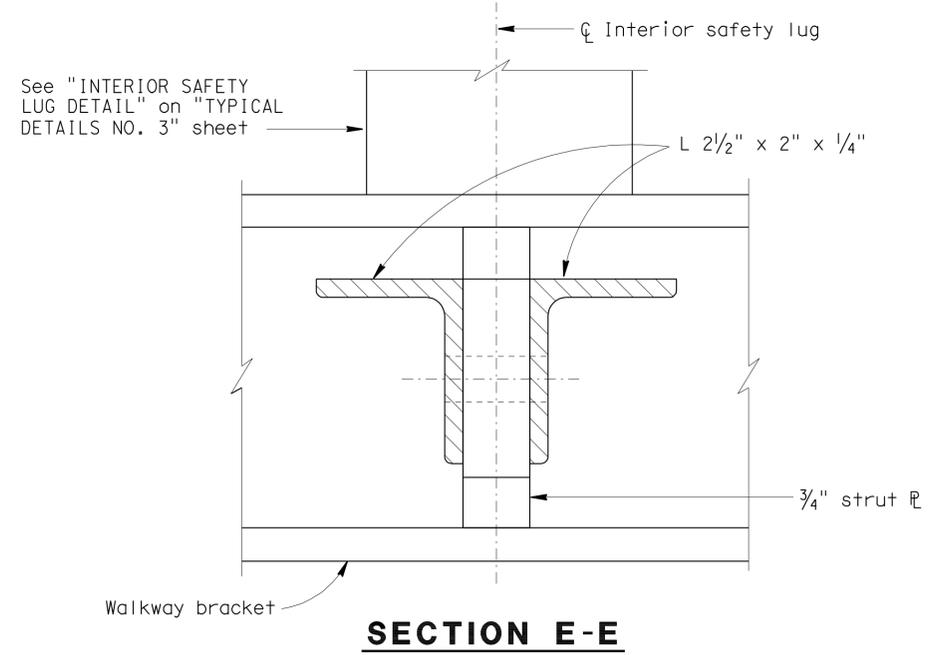
DIST	COUNTY	ROUTE	POST MILES	SHEET No	TOTAL SHEETS
08	SBd	10	26.8	38F	75


 REGISTERED CIVIL ENGINEER DATE 6/2/10
 No. C055212
 Exp. 6/30/10
 CIVIL
 STATE OF CALIFORNIA

3-10-10
 PLANS APPROVAL DATE

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2



NOTE:

1. Drill 3/4" dia hole for 5/8" dia HS bolt, 2 hardened washers and nut.

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2 ADDED PER ADDENDUM NO. 2 DATED JUNE 3, 2010

RICHARDSON STREET OVERCROSSING
 Bridge No. 54-0597
BRIDGE MOUNTED SIGN
STRUT DETAILS
 No Scale

SD-6

LAST REVISION DATE PLOTTED => 03-JUN-2010 TIME PLOTTED => 10:27
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