

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-16	CONSTRUCTION AREA SIGNS
17	DETOUR PLAN AND QUANTITIES
18-25	PAVEMENT DELINEATION PLAN, DETAILS AND QUANTITIES
26-32	REVISED AND NEW STANDARD PLANS

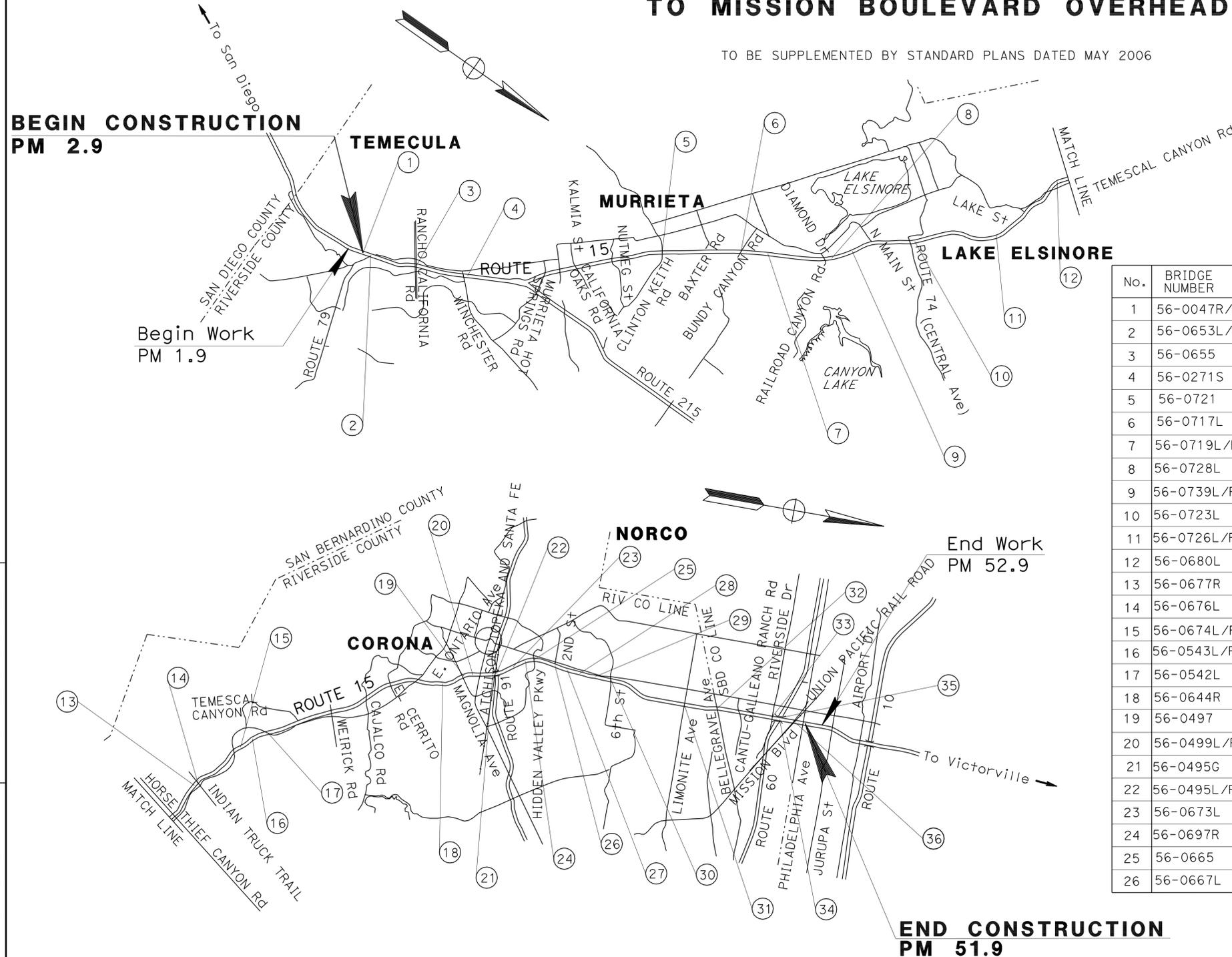
STRUCTURE PLANS

33-56 ROUTE 15 BRIDGES

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN RIVERSIDE COUNTY**  
**AT VARIOUS LOCATIONS**  
**FROM TEMECULA RIVER BRIDGE**  
**TO MISSION BOULEVARD OVERHEAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATIONS OF CONSTRUCTION**

No.	BRIDGE NUMBER	BRIDGE NAME	PM
1	56-0047R/L	TEMECULA RIVER	2.96
2	56-0653L/R	ROUTE 15/79 SEPARATION	3.42
3	56-0655	RANCHO CALIFORNIA OC	4.98
4	56-0271S	SANTA GERTRUDIS CREEK	6.73
5	56-0721	CLINTON KEITH ROAD OC	13.64
6	56-0717L	BUNDY CANYON ROAD UC	16.30
7	56-0719L/R	OLIVE STREET UC	17.52
8	56-0728L	SAN JACINTO RIVER	19.37
9	56-0739L/R	WASSON CANYON WASH	21.57
10	56-0723L	ROUTE 15/74 SEPARATION	22.26
11	56-0726L/R	GAVILAN WASH	25.55
12	56-0680L	TEMESCAL WASH	28.04
13	56-0677R	INDIAN WASH	30.09
14	56-0676L	INDIAN TRUCK TRAIL UC	30.40
15	56-0674L/R	MAYHEW WASH	31.97
16	56-0543L/R	COLDWATER WASH	32.96
17	56-0542L	TEMESCAL CANYON ROAD UC	33.25
18	56-0644R	OLD TEMESCAL ROAD UC	39.40
19	56-0497	MAGNOLIA AVENUE OC	40.35
20	56-0499L/R	TEMESCAL WASH	40.86
21	56-0495G	N15/E&W91 CONNECTOR	41.25
22	56-0495L/R	EAST CORONA OH	41.25
23	56-0673L	PARKRIDGE AVENUE UC	41.82
24	56-0697R	CORONA AVENUE UC	42.45
25	56-0665	HIDDEN VALLEY PARKWAY	42.88
26	56-0667L	SECOND STREET UC	43.64

No.	BRIDGE NUMBER	BRIDGE NAME	PM
27	56-0668L	THIRD STREET UC	44.12
28	56-0669	FOURTH STREET OC	44.66
29	56-0670	FIFTH STREET OC	45.14
30	56-0671	SIXTH STREET OC	45.60
31	56-0663	LIMONITE AVENUE OC	48.26
32	56-0664	BELLEGRAVE AVENUE OC	49.36
33	56-0693L	RIVERSIDE AVENUE UC	51.26
34	56-0691R	ROUTE 15/60 SEPARATION	51.45
35	56-0689F	S15/E60 CONNECTOR	51.46
36	56-0695L/R	MISSION Blvd OH	51.95

PROJECT MANAGER  
 CATALINO PINING III  
 DESIGN ENGINEER  
 MARC TALAVERA

*Marc Talavera* 01-19-11  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**March 7, 2011**  
 PLANS APPROVAL DATE  
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 CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	2	56

<i>Thanh Trinh</i>	01-19-11
REGISTERED CIVIL ENGINEER	DATE
3-7-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
THANH TRINH
No. 41189
Exp. 3-31-11
CIVIL

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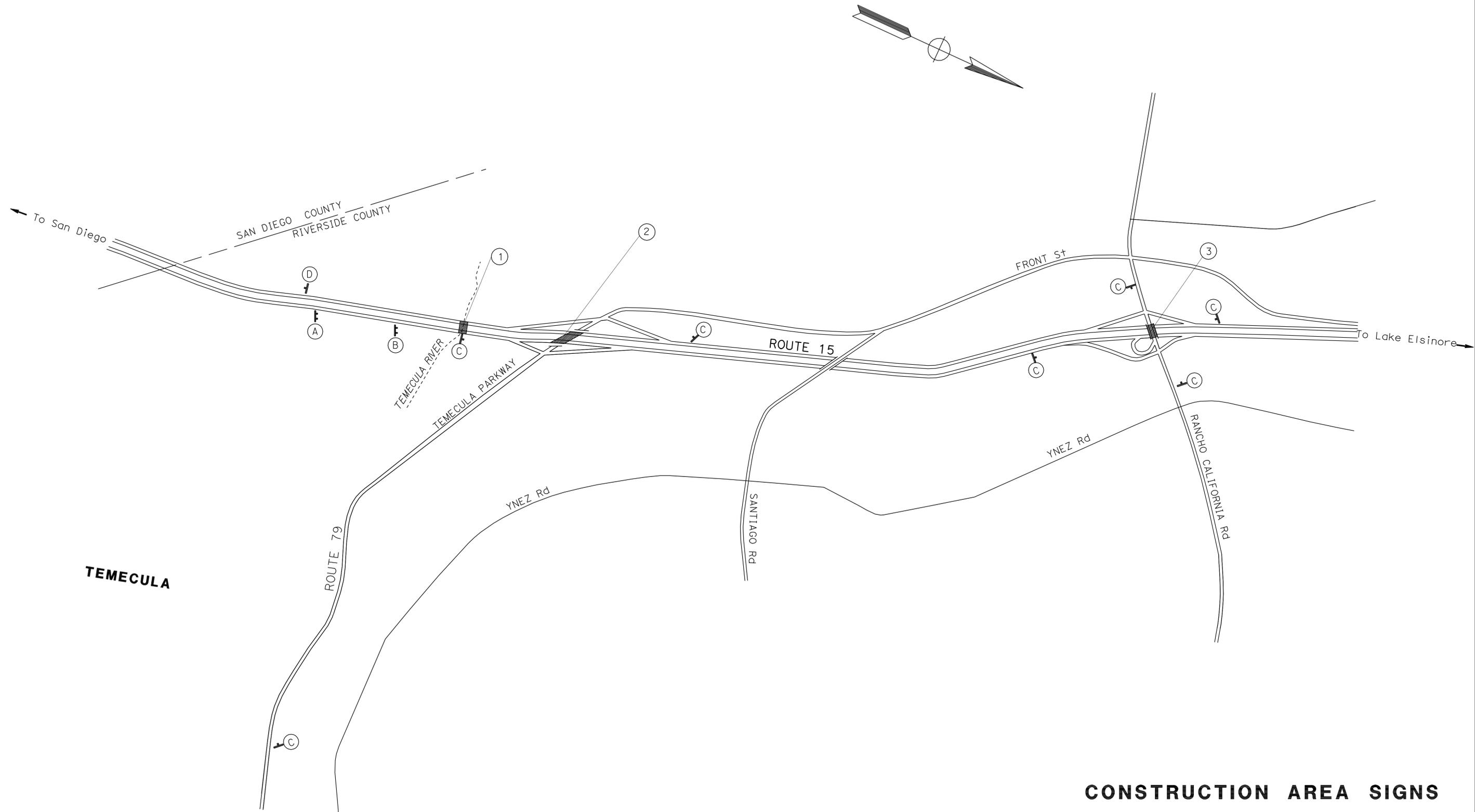
**NOTE:**

1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE.  
EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

**LEGEND:**

- CONSTRUCTION AREA
- └ CONSTRUCTION AREA SIGN (ONE POST)
- ┌ CONSTRUCTION AREA SIGN (TWO POST)
- ⓧ CONSTRUCTION AREA SIGN LETTER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	DATE
		SHEILAH NEFF	REVISOR
		THANH TRINH	DATE



TEMECULA

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

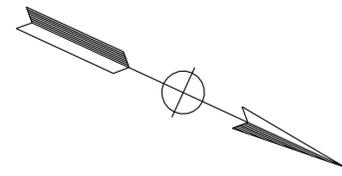


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	3	56

*Thanh Trinh* 01-19-11  
 REGISTERED CIVIL ENGINEER DATE  
 3-7-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**THANH TRINH**  
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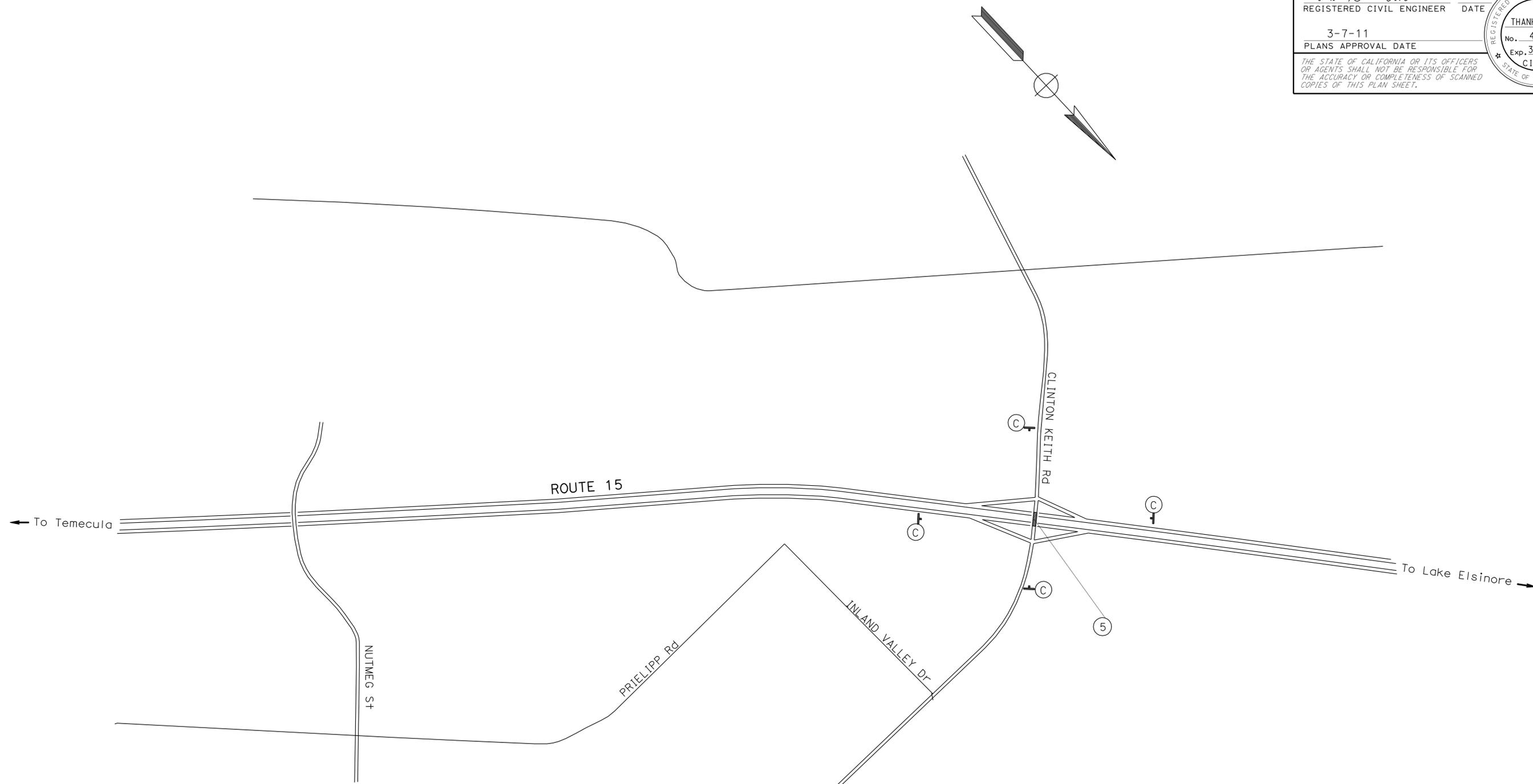
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	SHEILAH NEFF	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	THANH TRINH	DATE REVISED

# CONSTRUCTION AREA SIGNS

NO SCALE **CS-2**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	4	56
<i>Thanh Trinh</i>		01-19-11		DATE	
REGISTERED CIVIL ENGINEER					
3-7-11		PLANS APPROVAL DATE			
<small>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.</small>					



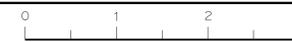
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	SHEILAH NEFF	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	THANH TRINH	DATE REVISED

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

# CONSTRUCTION AREA SIGNS

NO SCALE

**CS-3**

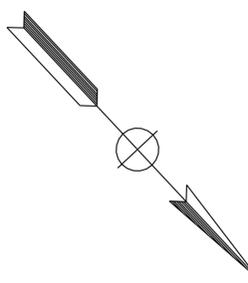
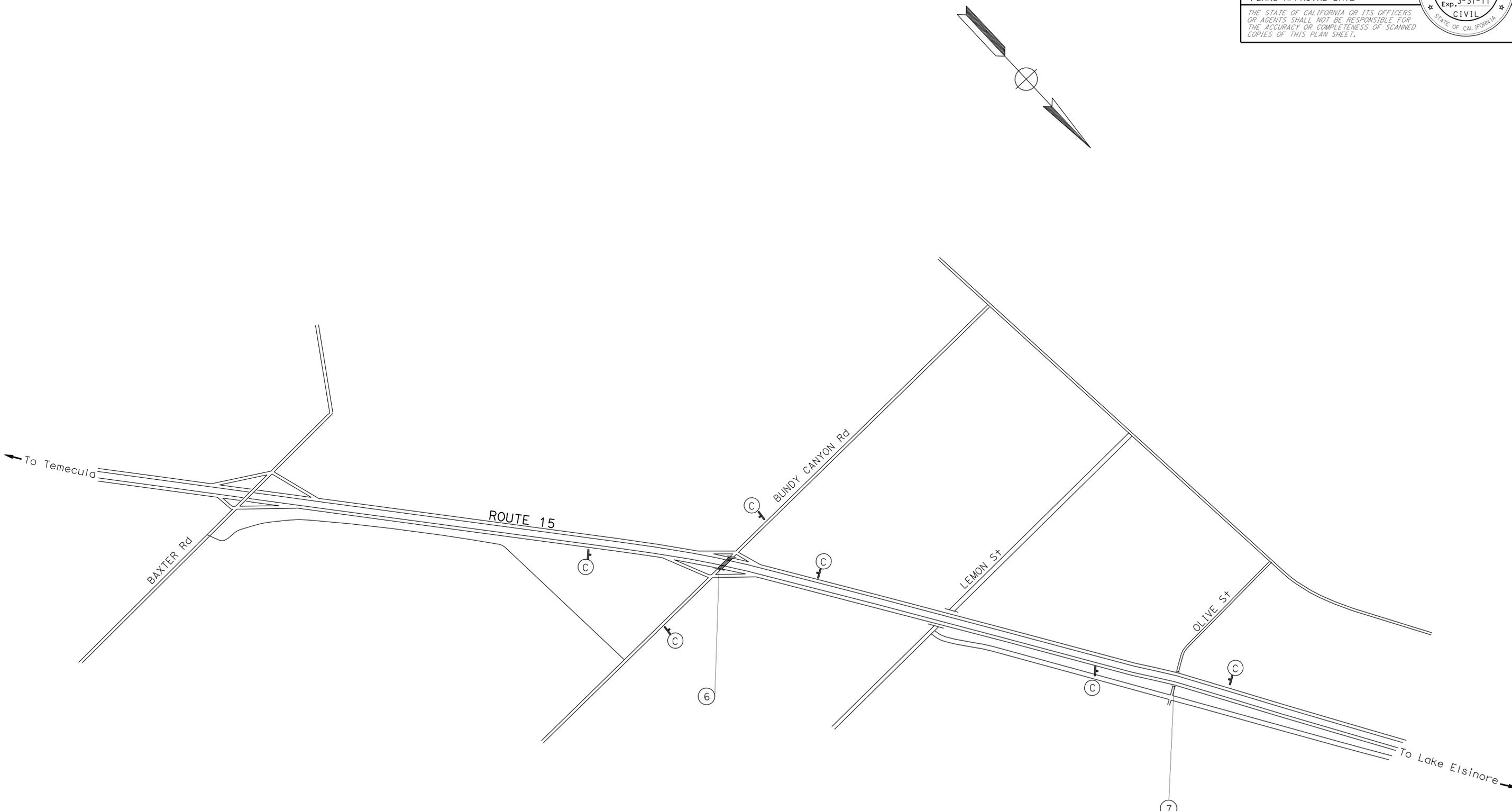


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	5	56

*Thanh Trinh* 01-19-11  
 REGISTERED CIVIL ENGINEER DATE  
 3-7-11  
 PLANS APPROVAL DATE

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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	DATE
		SHEILAH NEFF	REVISOR
		THANH TRINH	DATE



**CONSTRUCTION AREA SIGNS**  
NO SCALE **CS-4**

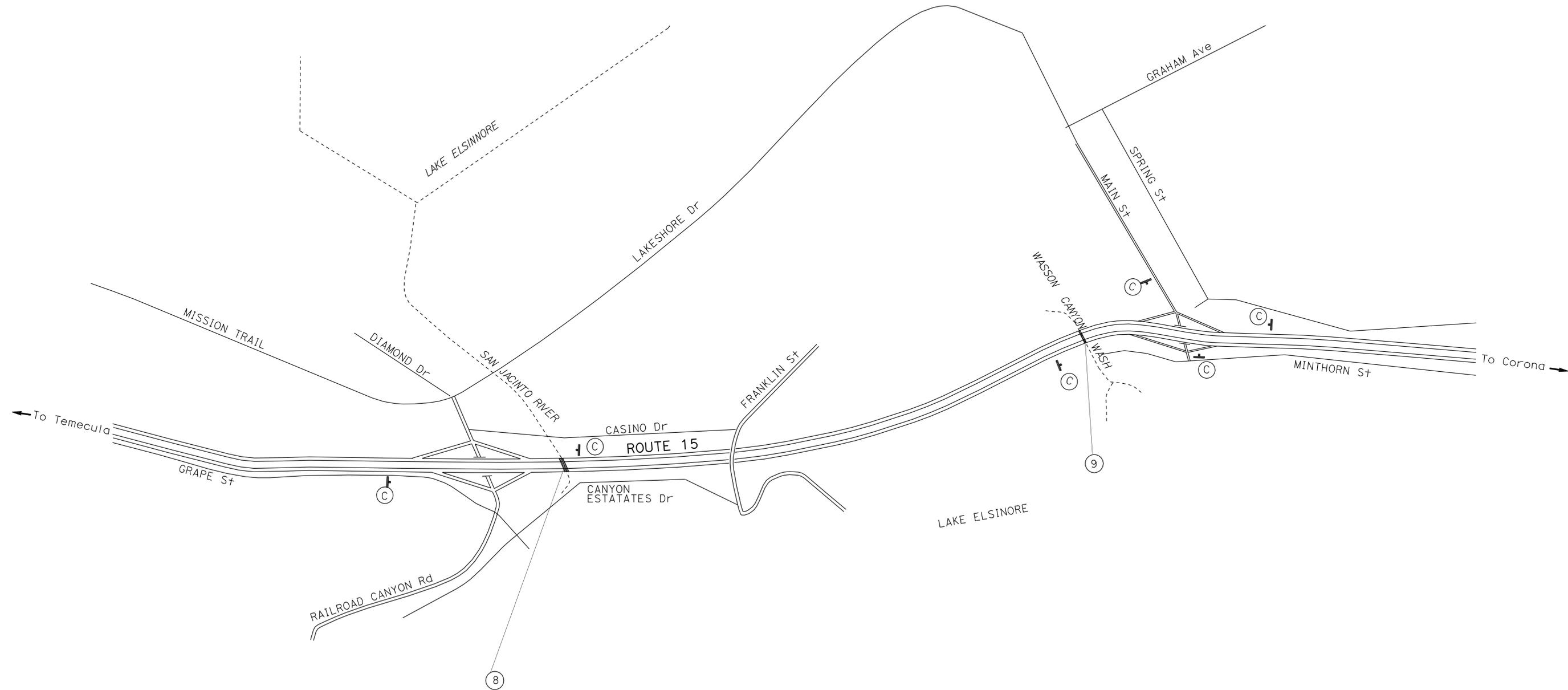
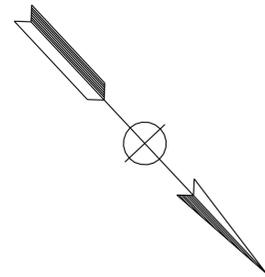
THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	6	56

*Thanh Trinh* 01-19-11  
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REGISTERED PROFESSIONAL ENGINEER  
 THANH TRINH  
 No. 41189  
 Exp. 3-31-11  
 CIVIL  
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: SHEILAH NEFF  
 CHECKED BY: THANH TRINH  
 REVISED BY: SHEILAH NEFF  
 DATE REVISIED: THANH TRINH

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-5**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	7	56

<i>Thanh Trinh</i>	01-19-11
REGISTERED CIVIL ENGINEER	DATE
3-7-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
THANH TRINH
No. 41189
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	THANH TRINH	DATE REVISED

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

**CONSTRUCTION AREA SIGNS**  
NO SCALE **CS-6**

LAST REVISION | DATE PLOTTED => 10-MAR-2011    01-19-11    TIME PLOTTED => 08:21

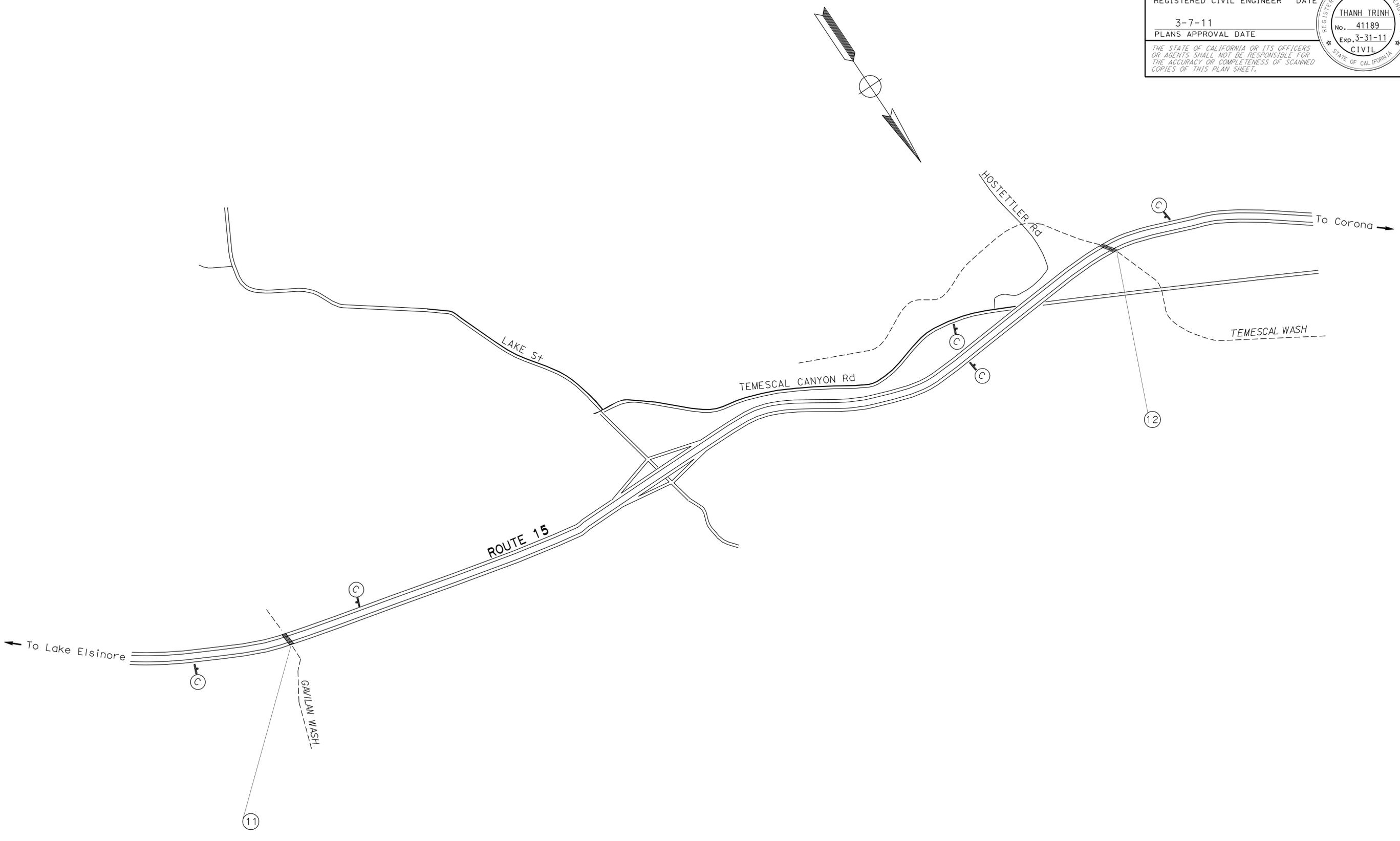
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	8	56

*Thanh Trinh* 01-19-11  
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 Exp. 3-31-11  
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<b>Caltrans</b> TRAFFIC DESIGN
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CALCULATED/DESIGNED BY
CHECKED BY
SHEILAH NEFF
THANH TRINH
REVISED BY
DATE REVISED



**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-7**

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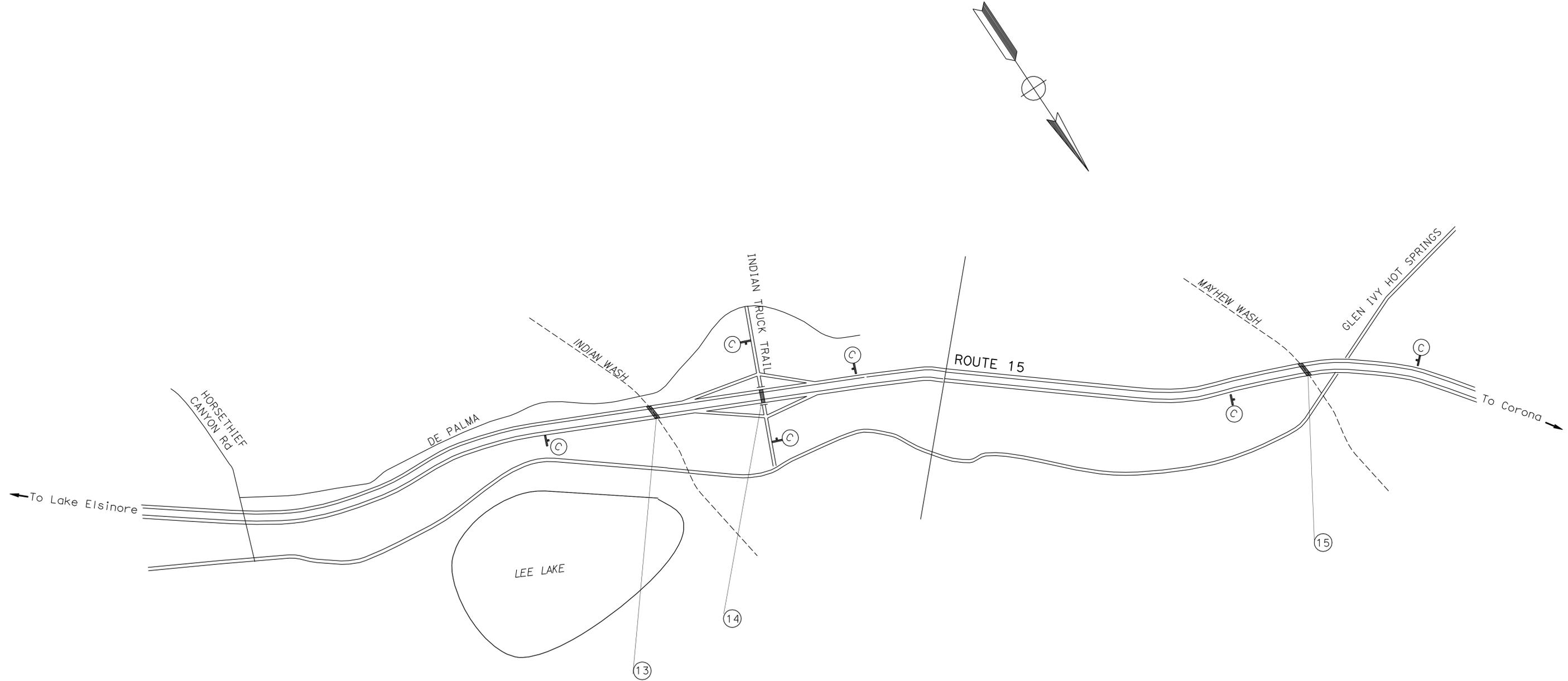
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	9	56

*Thanh Trinh* 01-19-11  
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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	DATE
		SHEILAH NEFF	REVISOR
		THANH TRINH	DATE

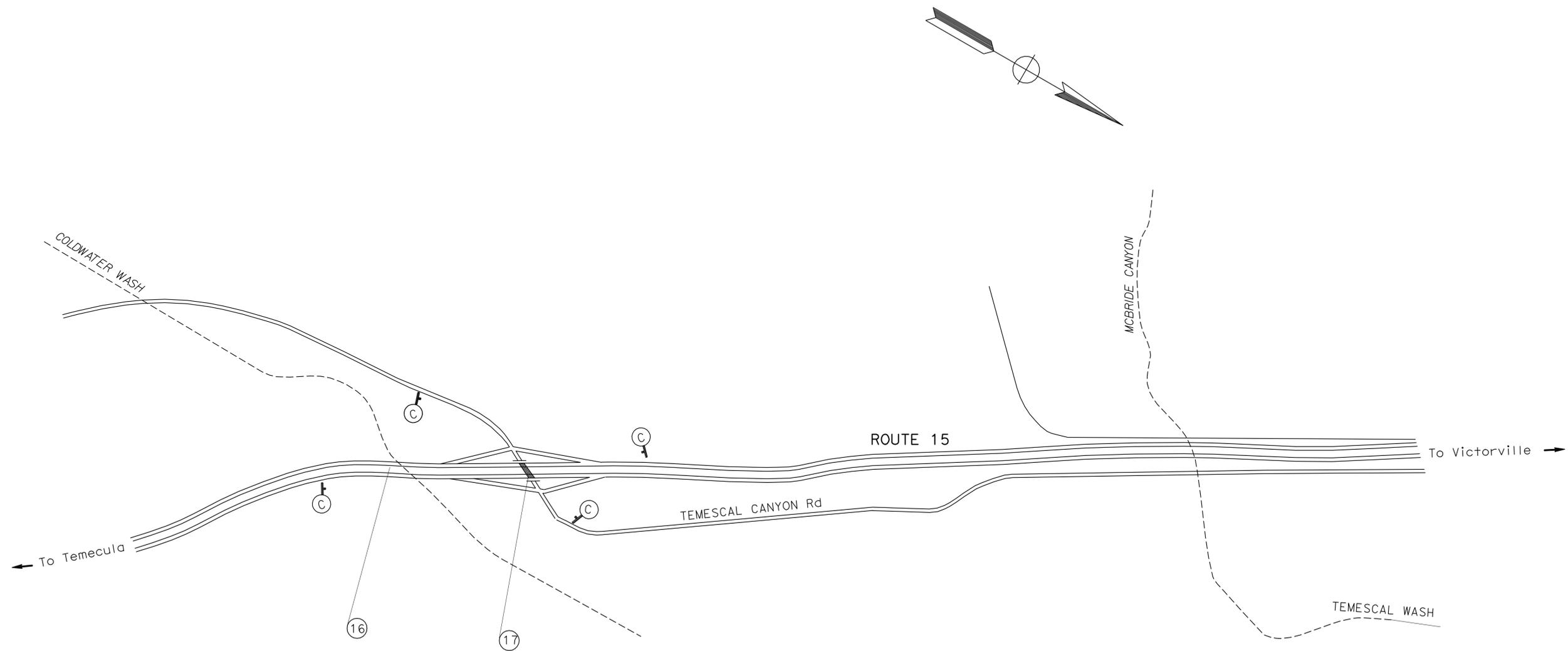


THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

**CONSTRUCTION AREA SIGNS**  
NO SCALE **CS-8**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	10	56
<i>Thanh Trinh</i> REGISTERED CIVIL ENGINEER		01-19-11 DATE			
3-7-11 PLANS APPROVAL DATE		<small>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.</small>			

CALCULATED/DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	DEPARTMENT OF TRANSPORTATION
SHEILAH NEFF	BILL WASSER	TRAFFIC DESIGN	STATE OF CALIFORNIA
REVISOR	REVISOR	REVISOR	REVISOR
DATE	DATE	DATE	DATE
REVISOR	REVISOR	REVISOR	REVISOR
DATE	DATE	DATE	DATE



# CONSTRUCTION AREA SIGNS

NO SCALE

**CS-9**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

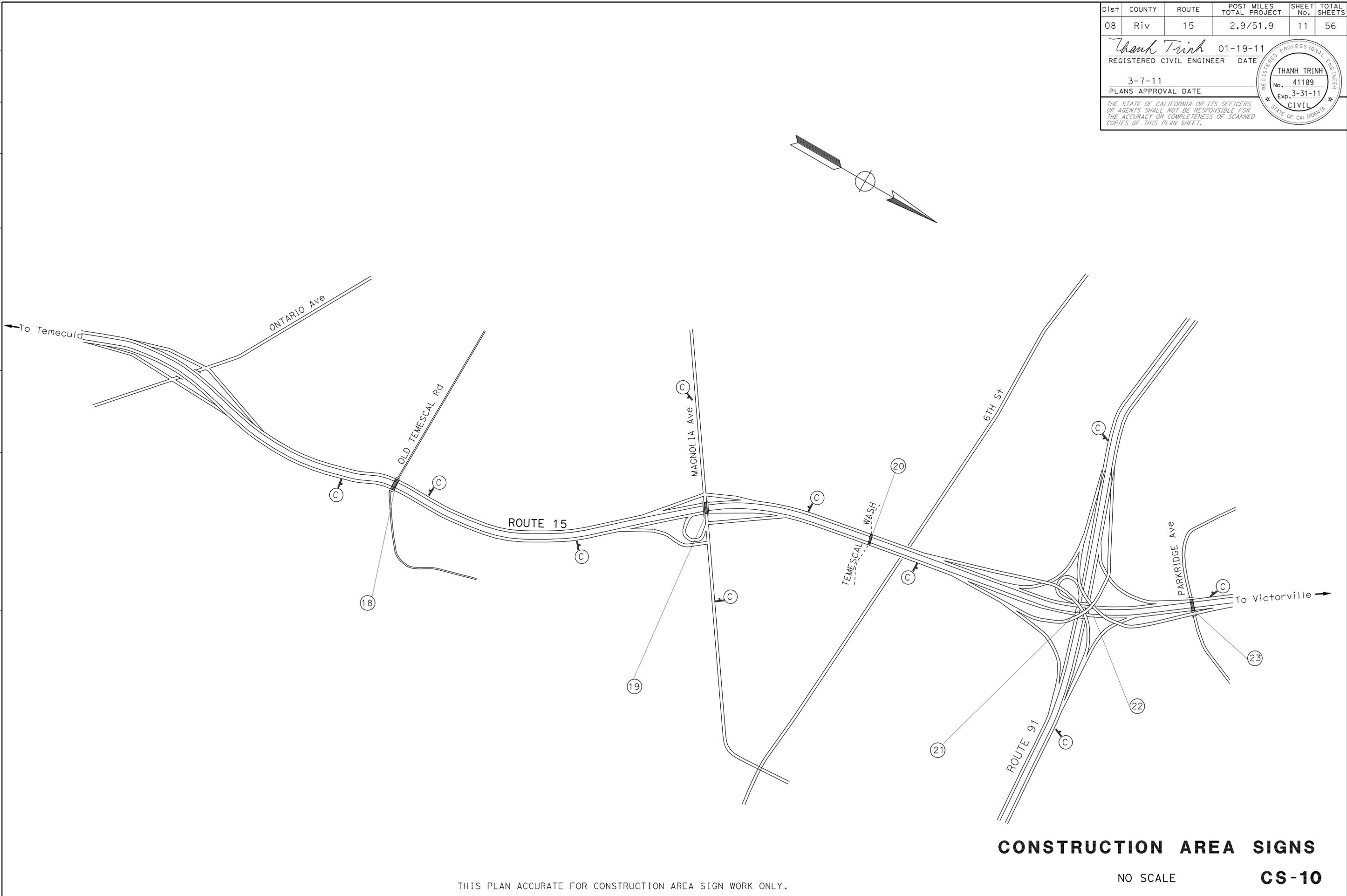
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	11	56

*Thanh Trinh* 01-19-11  
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 3-7-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
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 No. 41189  
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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	DATE
		SHEILAH NEFF	REVISOR
		THANH TRINH	DATE



**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-10**

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	12	56

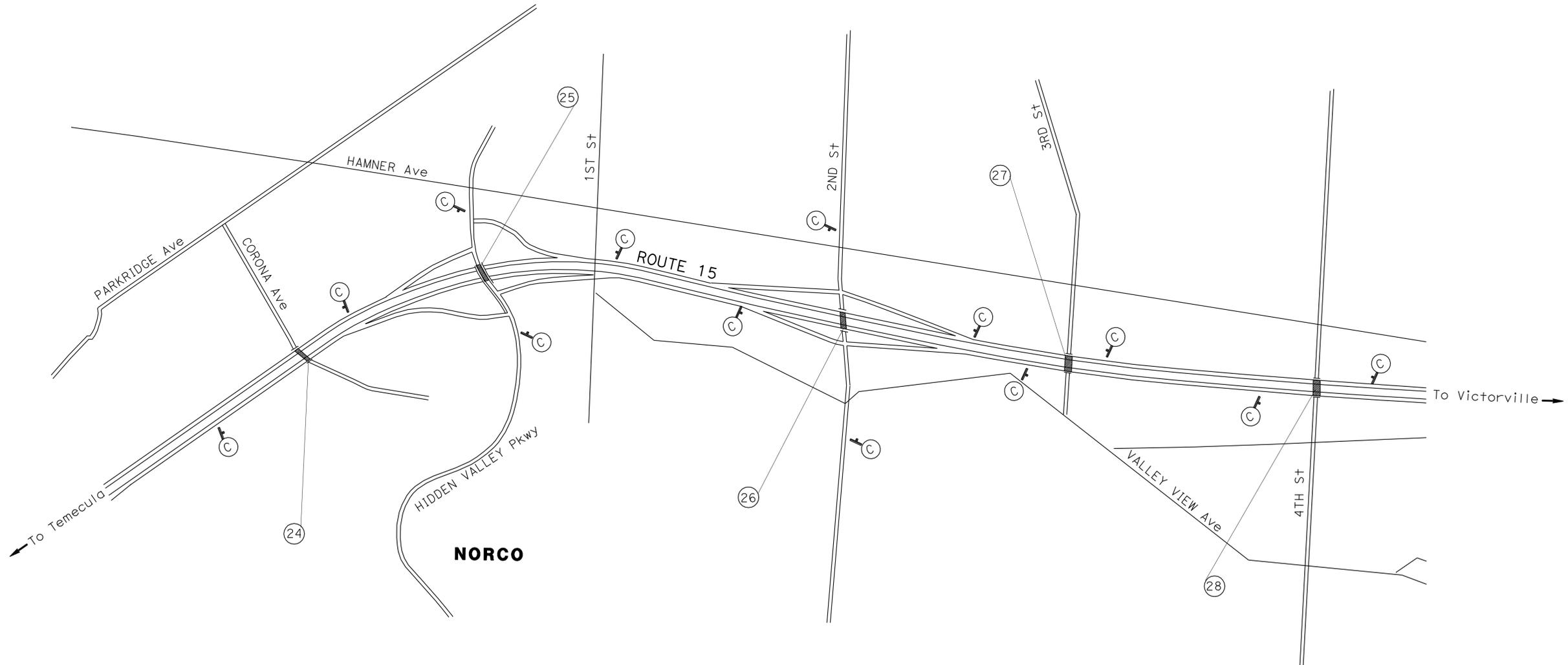
  

<i>Thanh Trinh</i>	01-19-11
REGISTERED CIVIL ENGINEER	DATE
3-7-11	
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REGISTERED PROFESSIONAL ENGINEER
THANH TRINH
No. 41189
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 CALCULATED/DESIGNED BY: SHEILAH NEFF  
 CHECKED BY: THANH TRINH  
 REVISED BY: SHEILAH NEFF  
 DATE REVISED: THANH TRINH

**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-11**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	13	56

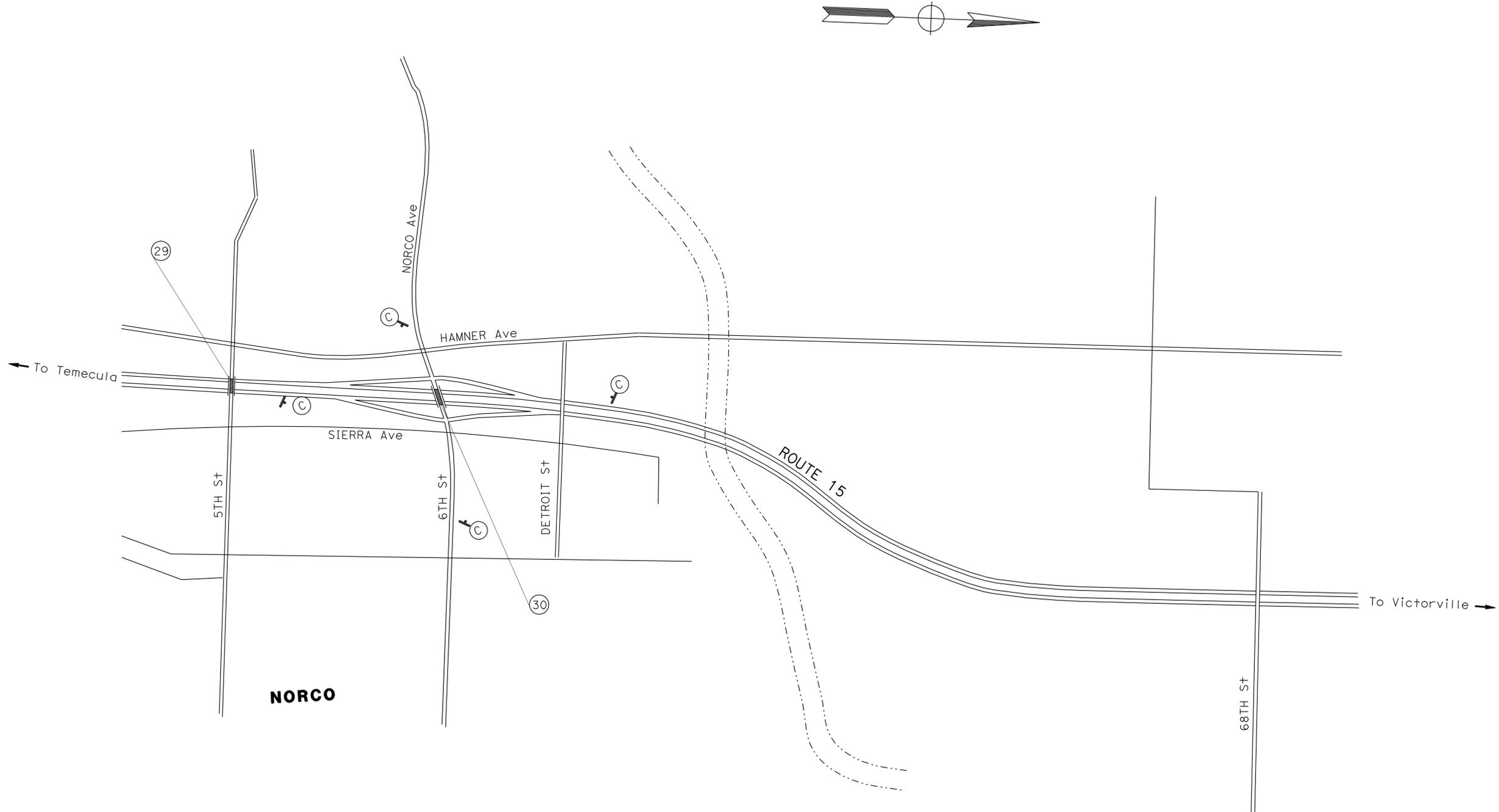
<i>Thanh Trinh</i>	01-19-11
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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	THANH TRINH	DATE	



**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-12**

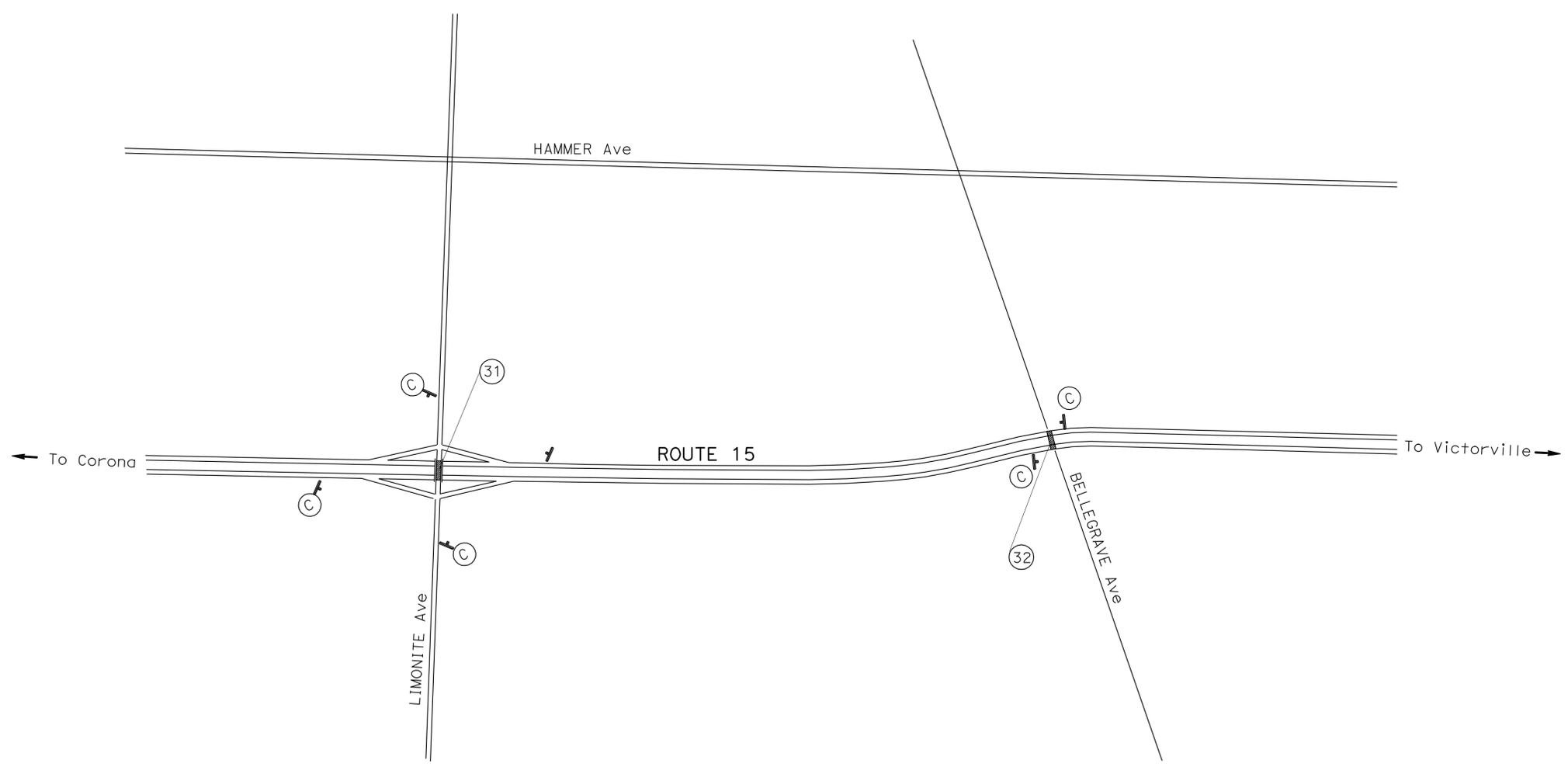
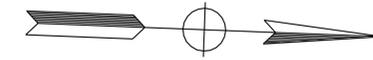
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	14	56

*Thanh Trinh* 01-19-11  
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 3-7-11  
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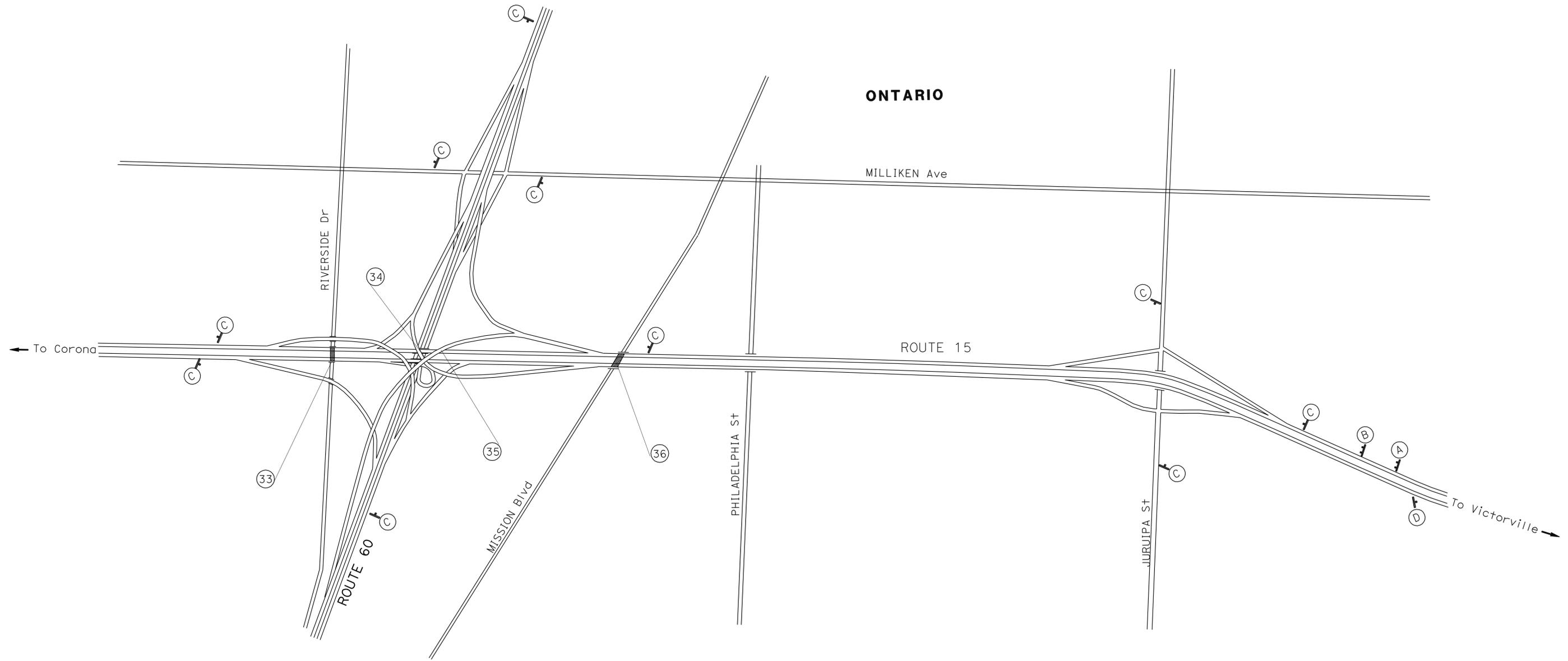
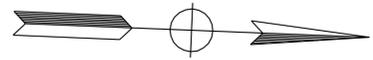
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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	DATE REVISION
		SHEILAH NEFF	
		THANH TRINH	

**CONSTRUCTION AREA SIGNS**

NO SCALE **CS-13**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	15	56
<i>Thanh Trinh</i>		01-19-11		DATE	
REGISTERED CIVIL ENGINEER					
3-7-11		PLANS APPROVAL DATE			
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<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	SHEILAH NEFF
			THANH TRINH
			REVISOR
			DATE
			REVISOR
			DATE

**CONSTRUCTION AREA SIGNS**  
NO SCALE **CS-14**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	16	56

*Thanh Trinh* 01-19-11  
 REGISTERED CIVIL ENGINEER DATE

3-7-11  
 PLANS APPROVAL DATE

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**PORTABLE CHANGEABLE  
MESSAGE SIGN**

QUANTITY (EA)
4

**CONSTRUCTION AREA SIGNS (STATIONARY)**

SIGN No.	SIGN CODE	PANEL SIZE (IN)	No. OF POST-SIZE AND LENGHT (IN)	No. OF SIGNS	SIGN MESSAGE
A	C40 (CA)	144" x 60"	2 - 6' x 8'	2	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES
B	C11 (CA)	90" x 48"	2 - 6' x 6'	2	ROAD CONSTRUCTION NEXT 50 MILES
C	W20-1	36" x 36"	1 - 4' x 6'	98	ROAD WORK AHEAD
D	C14 (CA)	48" x 24"	2 - 4' x 6'	2	END ROAD WORK
	TOTAL			104	

**CONSTRUCTION AREA SIGNS  
QUANTITIES**

**CS-15**

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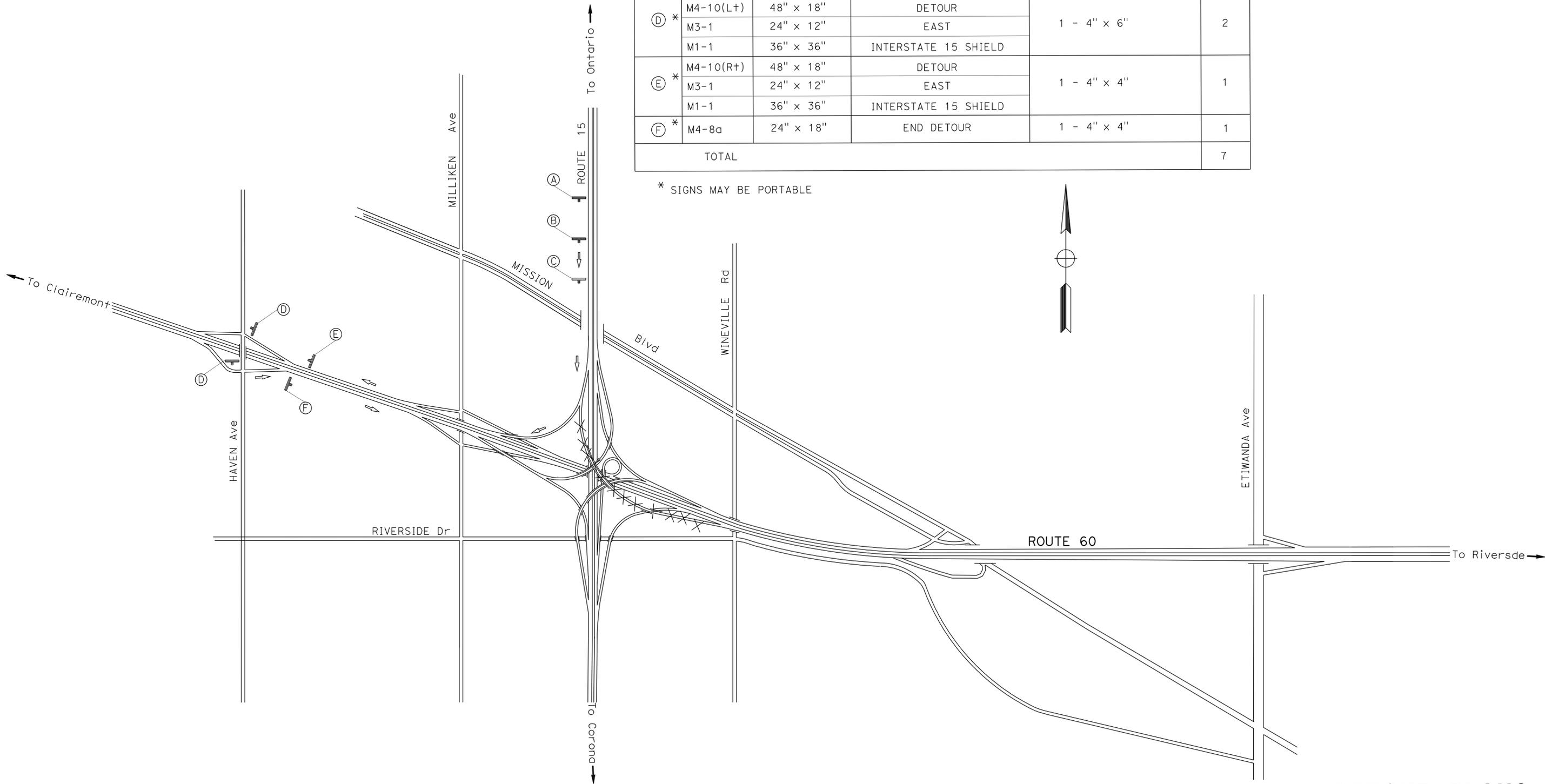
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR  
 BILL WASSER  
 CALCULATED/DESIGNED BY  
 SHEILAH NEFF  
 CHECKED BY  
 THANH TRINH  
 REVISED BY  
 DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 S F NEFF  
 THANH TRINH  
 REVISOR: S F NEFF  
 DATE: 01-19-11  
 CHECKED BY: THANH TRINH  
 DATE: 01-19-11  
 DESIGNED BY: S F NEFF  
 DATE: 01-19-11

### CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE (in)	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-2	48" x 48"	RAMP CLOSED AHEAD	1 - 6" x 6"	1
(B)	W20-2	48" x 48"	DETOUR AHEAD	1 - 6" x 6"	1
(C) *	SC3(CA)	48" x 18"	↑ DETOUR	1 - 4" x 6"	1
	M3-1	24" x 12"	EAST		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
(D) *	M4-10(L+)	48" x 18"	DETOUR	1 - 4" x 6"	2
	M3-1	24" x 12"	EAST		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
(E) *	M4-10(R+)	48" x 18"	DETOUR	1 - 4" x 4"	1
	M3-1	24" x 12"	EAST		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
(F) *	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	1
TOTAL					7

\* SIGNS MAY BE PORTABLE



### DETOUR FOR ROUTE SB 15/EB 60 CONNECTOR

THIS PLAN ACCURATE FOR DETOUR WORK ONLY

### DETOUR PLANS

NO SCALE DE-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	17	56

*Thanh Trinh* 01-19-11  
 REGISTERED CIVIL ENGINEER DATE  
 3-7-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 No. 41189  
 Exp. 3-31-11  
 CIVIL  
 STATE OF CALIFORNIA

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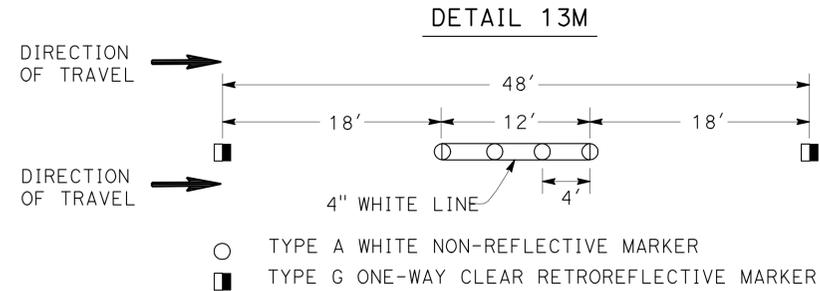
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.9/51.9	18	56

*Thanh Trinh* 02-28-11  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

T. TRINH  
No. C41189  
Exp. 3-31-11  
CIVIL

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### PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING	
						NON-REFLECTIVE		RETROREFLECTIVE				YELLOW		WHITE		
						A	C	D	E	G	H	4"	4"	8"		WHITE
		EA	SQFT	LF	LF	EA	EA				LF	LF		SQFT		
ROUTE 15 POST MILE 2.96	13M	252			504	168					84			652	1956	
	25	28		652												
	27B				652									652		
ROUTE 15 POST MILE 3.42	13M	144			24	96					48			1092		
	25	8		364										364		
	27B				364									364		
	9				336									1080		
RANCHO CALIFORNIA Rd OC POST MILE 4.98	22	36		540			36							540		
	27B				540									540		
	38				820									820		
	ARROW TYPE IV (L)		90													90
ROUTE 15 POST MILE 6.73	25	10		212										212		
	27B				212									212		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
BILL WASSER

CALCULATED, DESIGNED BY  
CHECKED BY

S F NEFF  
THANH TRINH

REVISED BY  
DATE REVISED

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION QUANTITY ONLY.

### PAVEMENT DELINEATION QUANTITIES

PDQ-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.96/51.9	19	56

*Thanh Trinh* 02-28-11  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

T. TRINH  
No. C41189  
Exp. 3-31-11  
CIVIL  
STATE OF CALIFORNIA

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**PAVEMENT DELINEATION QUANTITIES**

LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUSWASTE)		PAVEMENT MARKER						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING		
				YELLOW	WHITE	NON- REFLEC TIVE	RETROREFLECTIVE						YELLOW	WHITE			
							A	C	D	E	G	H		4"		4"	8"
				EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		EA	
CLINTON KEITH RD POST MILE 13.64	21			600									300				
	38A															300	
	ARROW TYPE IV (L)		60														60
ROUTE 15 POST MILE 16.30	13M	51		-	120		40				11			444			
	25	6		220							6		220				
	27B				220								220				
OLIVE STREET UNDERCROSSING POST MILE 17.52	13M	64			144		48				16			556			
	25	7		278							7		278				
	27B				27B								278				

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**® **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: S F NEFF  
 CHECKED BY: THANH TRINH  
 REVISED BY: DATE REVISION

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION QUANTITY ONLY.

**PAVEMENT DELINEATION  
QUANTITIES**

**PDQ-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.96/51.9	20	56

*Thanh Trinh* 02-28-11  
 REGISTERED CIVIL ENGINEER DATE

3-7-11  
 PLANS APPROVAL DATE

T. TRINH  
 No. C41189  
 Exp. 3-31-11  
 CIVIL

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### PAVEMENT DELINEATION QUANTITIES

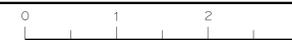
LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS)		REMOVE THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING	
				YELLOW	WHITE	RETROREFLECTIVE						YELLOW	WHITE					
				4"	4" 8"	A	C	D	E	G	H	4"	4"	8"				
				EA	EA	EA	EA						EA	EA				
ROUTE 15 POST MILE 19.37	13M	102			240		80					22				480	960	
	25	11		480									11					
	27B				768											768		
ROUTE 15 POST MILE 21.57	13M	64			140		48					16				280	562	
	25	8		280									8					
	27B				280											280		
ROUTE 15 POST MILE 22.26	13M	52			116		40					12				456		
	25	7		288									7			288		
	27B				168											168		
ROUTE 15 POST MILE 25.55	13M				5											5	5	
	25			5														
	27B				5												5	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: S F NEFF  
 CHECKED BY: THANH TRINH  
 REVISED BY: DATE REVISED:

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION QUANTITY ONLY.

### PAVEMENT DELINEATION QUANTITIES

**PDQ-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.96/51.9	21	56

*Thanh Trinh* 02-28-11  
 REGISTERED CIVIL ENGINEER DATE

3-7-11  
 PLANS APPROVAL DATE

T. TRINH  
 No. C41189  
 Exp. 3-31-11  
 CIVIL

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### PAVEMENT DELINEATION QUANTITIES

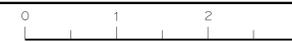
LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING	
						NON- REFLEC TIVE	RETROREFLECTIVE					YELLOW		WHITE		
							EA	C	D	E	G	H	4"	4" 8"		
																EA
ROUTE 15 POST MILE 28.04	13M	239			565	190						49	18	766	2263	
	25	18		766												
	27B				766										766	
ROUTE 15 POST MILE 30.09	13M				5									5	5	
	25			5										5		
	27B				5								7	5	5	
ROUTE 15 POST MILE 30.40	13M				5									5	5	
	25			5										5		
	27B				5									5		
ROUTE 15 POST MILE 31.97	13M	95			226	76						20	8	306	226	
	25	8		306												
	27B				306									306		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: S F NEFF  
 CHECKED BY: THANH TRINH  
 REVISED BY: DATE REVISED:

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION QUANTITY ONLY.

## PAVEMENT DELINEATION QUANTITIES

**PDQ-4**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.96/51.9	22	56

*Thanh Trinh* 02-28-11  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

T. TRINH  
No. C41189  
Exp. 3-31-11  
CIVIL

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**PAVEMENT DELINEATION QUANTITIES**

LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)		PAVEMENT MARKER						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING			
				YELLOW	WHITE	NON-REFLECTIVE	RETROREFLECTIVE						YELLOW			WHITE		
							4"	4"	8"	A	C	D	E	G		H	4"	4"
				EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		EA	EA	EA
ROUTE 15 POST MILE 32.96	13M	120			428								40	20	480	960		
	25	20		480		480									480	480		
	27B																	
ROUTE 15 POST MILE 33.25	13M														5			
	25			5											5	5		
	27B					5												
ROUTE 15 POST MILE 39.4	13M														5			
	25			5											5	5		
	27B					5												
MAGNOLIA Ave OC POST MILE 40.35	9		90		338										48	580	1160	90
	22	36		290						36						580	580	
	27B				580											200	200	
	37B				200											670	670	
	38				670													
	ARROW TYPE IV (L) 15 FWY ONLY			90														90

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: BILL WASSER  
CALCULATED/DESIGNED BY: S F NEFF  
CHECKED BY: THANH TRINH

REVISED BY: \_\_\_\_\_  
DATE REVISED: \_\_\_\_\_

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION QUANTITY ONLY.



UNIT 2284

PROJECT NUMBER & PHASE

0800004921

**PAVEMENT DELINEATION QUANTITIES**

**PDQ-5**





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	2.96/51.9	25	56

*Thanh Trinh* 02-28-11  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

T. TRINH  
No. C41189  
Exp. 3-31-11  
CIVIL

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN

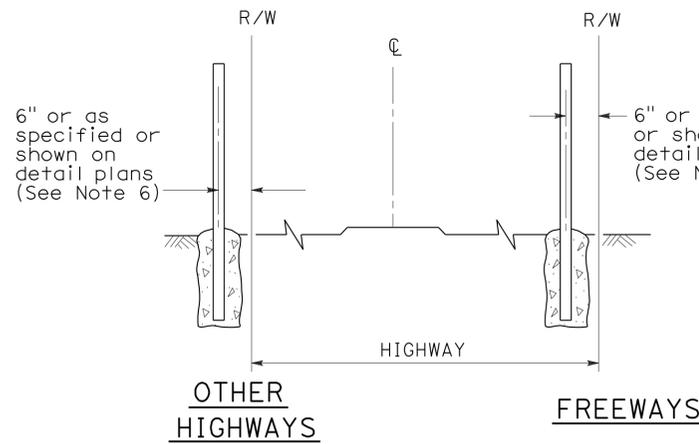
FUNCTIONAL SUPERVISOR: BILL WASSER  
CALCULATED/DESIGNED BY: S F NEFF  
CHECKED BY: THANH TRINH  
REVISOR: S F NEFF  
DATE REVISOR: THANH TRINH

### PAVEMENT DELINEATION QUANTITIES

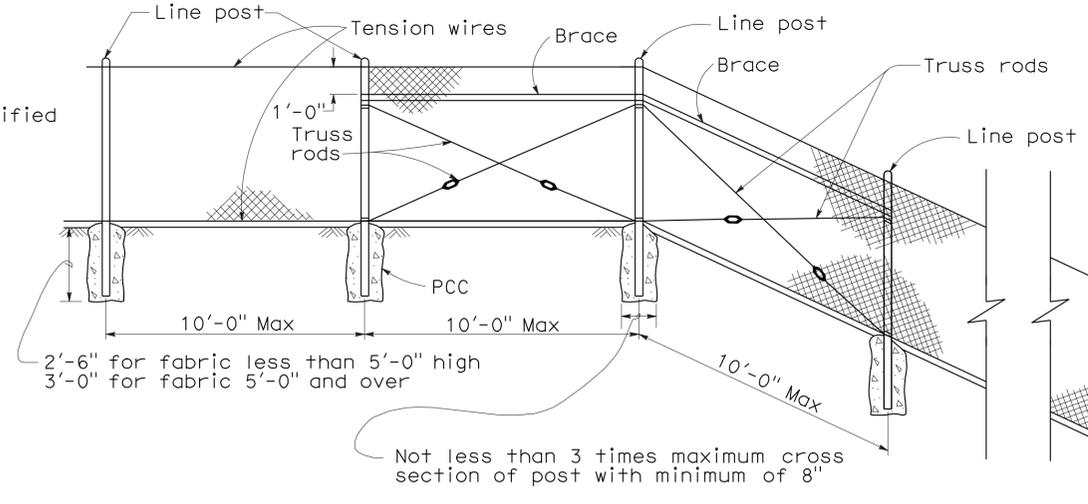
LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WATE)	PAVEMENT MARKER						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING		
					RETROREFLECTIVE						NON- REFLEC TIVE	YELLOW			WHITE	
					A	C	D	E	G	H		EA	EA		EA	
					EA	EA	EA	EA	EA	EA	EA	EA	EA		EA	
FOURTH STREET POST MILE 44.6	5 27B			96								238				
FIFTH STREET POST MILE 45.14	5			240								240				
SIXTH STREET POST MILE 45.60	II 2I 38A			508								254	520			
LIMONITE STREET POST MILE 48.23	II 2I 38A			454								227	454	250		
BELLEGRAVE AVENUE POST MILE 49.36	TYPE IV ARROW 2I 27B		48	460								230			48	
ROUTE 15/60 SEPARATION POST MILE 51.45	13M 25A 27B	69 24		274				46			23	274	550			
ROUTE 15 POST MILE 51.95	13M 25 27B 38A	30		698				204			102	698	2450			
SUB-TOTAL		2092	442	11807	19649	6336	1539	37	36		583	346	10866	31758	3614	442
TOTAL		2092	442	11807	25985		1539	1002					46238			442

THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION QUANTITY ONLY.

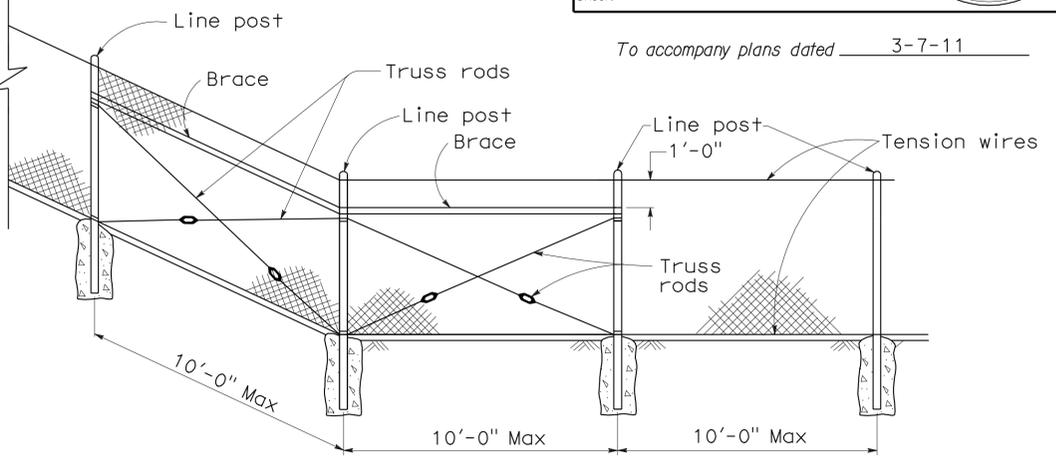
### PAVEMENT DELINEATION QUANTITIES PDQ-8



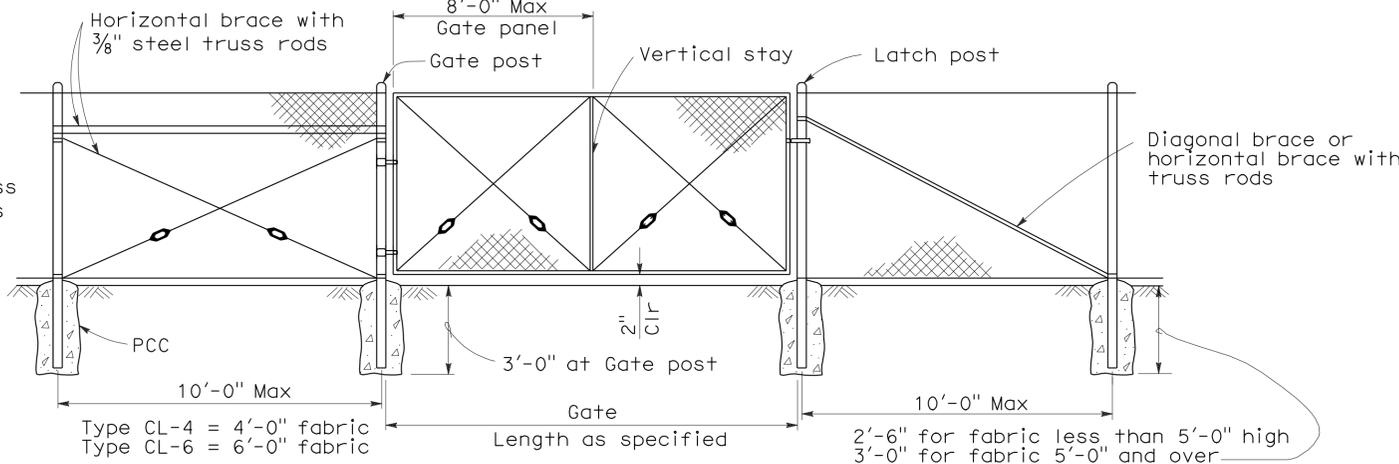
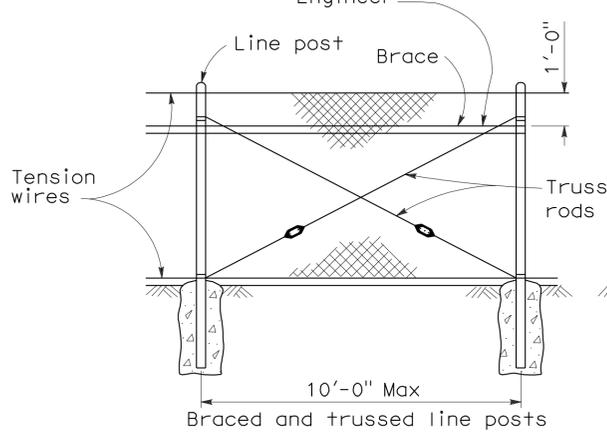
**FENCE LOCATION**



**CHAIN LINK FENCE ON SHARP BREAK IN GRADE**



Brace to be removed after all other fence construction is completed unless otherwise directed by the Engineer



**CHAIN LINK GATE INSTALLATION**

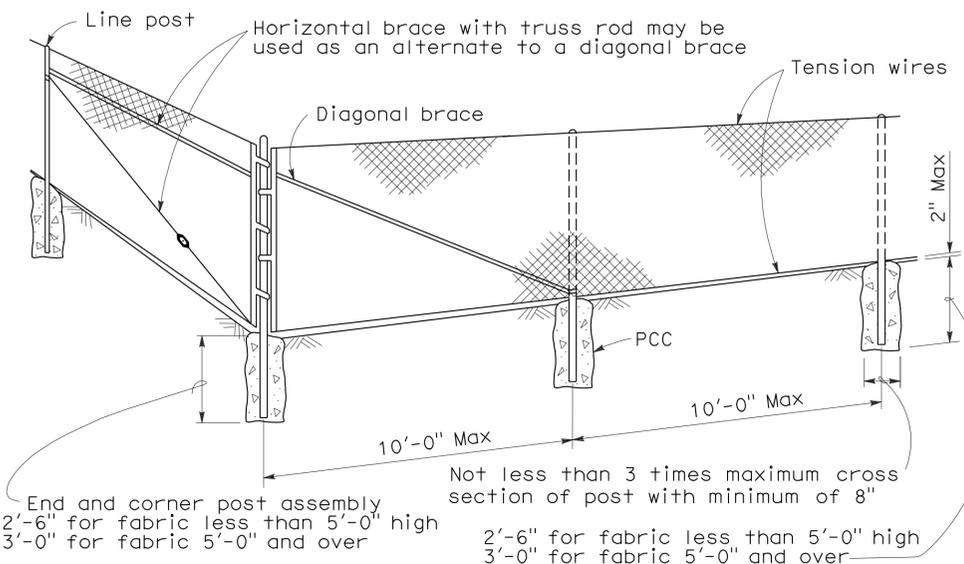
GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6'-0" and Less	Up thru 6'-0"	2 1/2"	4.95 LB
	Over 6'-0" thru 12'-0"	4"	10.79 LB
	Over 12'-0" thru 18'-0"	5"	14.62 LB
	Over 18'-0" to 24'-0" Max	6"	18.97 LB
Over 6'-0"	Up thru 6'-0"	3"	7.58 LB
	Over 6'-0" thru 12'-0"	5"	14.62 LB
	Over 12'-0" thru 18'-0"	6"	18.97 LB
	Over 18'-0" to 24'-0" Max	8"	28.55 LB

Above post dimensions and weights are minimums. Larger sizes may be used on approval of the Engineer.

**NOTES:**

- The below table shows examples of post and brace sections which may comply with the Specifications.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used on approval of the Engineer.
- Options exercised shall be uniform on any one project.
- Dimensions shown are nominal.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.

FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS			END, LATCH & CORNER POSTS			BRACES			
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED		ROUND ID	H	ROLL FORMED	
6' & less	1 1/2"	1 7/8" x 1 5/8"	1 7/8" x 1 5/8"	2"	3 1/2" x 3 1/2"	2" x 1 3/4"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"
Over 6'	2"	2 1/4" x 2"	2" x 1 3/4"	2 1/2"	3 1/2" x 3 1/2"	2 1/2" x 2 1/2"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"



**CORNER POST**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE**  
 NO SCALE

RSP A85 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN A85  
 DATED MAY 1, 2006 - PAGE 111 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A85**

2006 REVISED STANDARD PLAN RSP A85

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	2.9/51.9	27	56

Glenn DeCou  
 REGISTERED CIVIL ENGINEER  
 No. C34547  
 Exp. 9-30-09  
 CIVIL  
 STATE OF CALIFORNIA

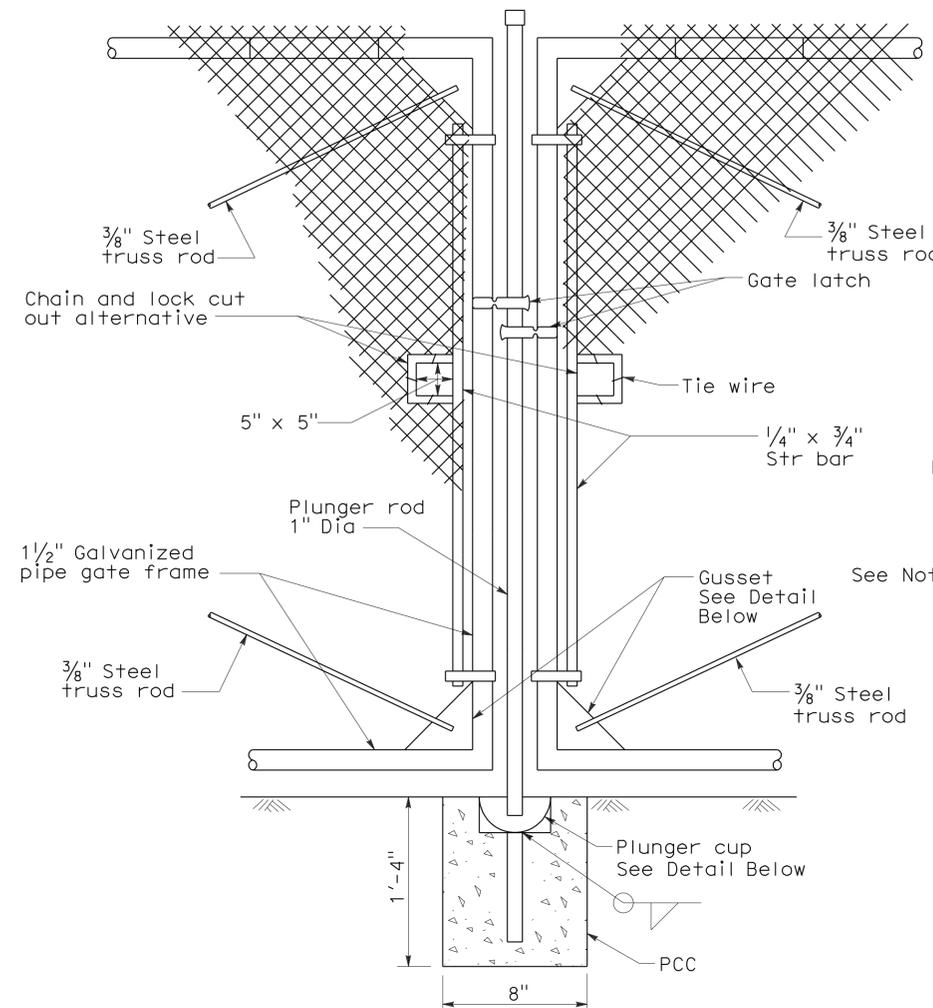
June 5, 2009  
 PLANS APPROVAL DATE

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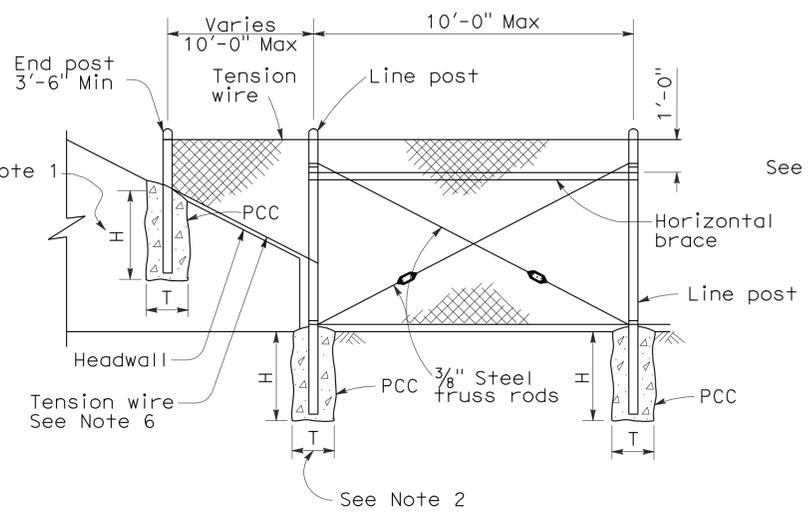
To accompany plans dated 3-7-11

**NOTES:**

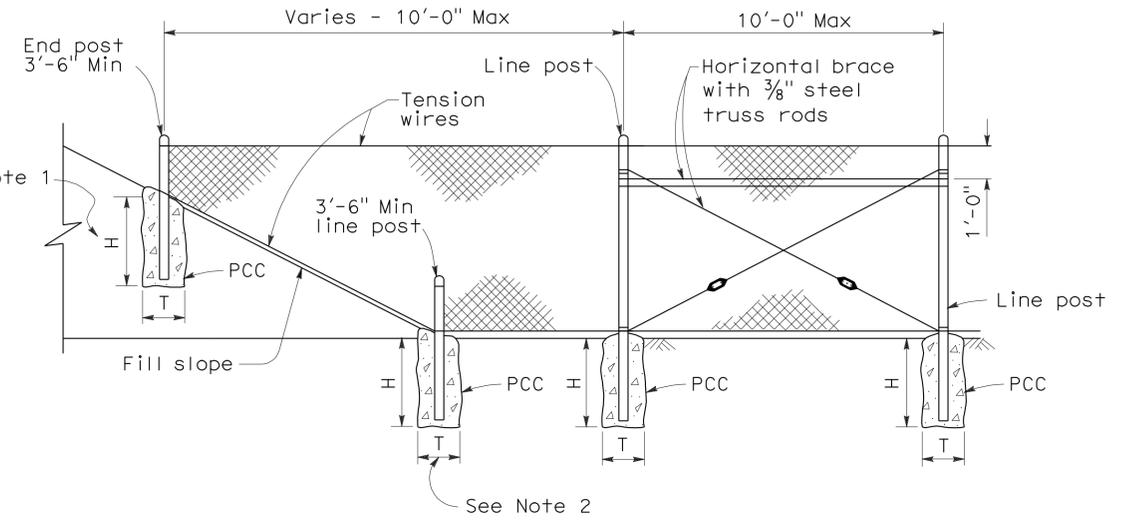
- H is 2'-6" for fabric less than 5'-0" high.  
H is 3'-0" for fabric 5'-0" and over.
- T is not less than 3 times maximum cross section of post with minimum of 8".
- Arms with barbed wire to be used where shown on plans.
- See Revised Standard Plan RSP A85 for Chain Link Fencing dimensions.
- Reinforcing must comply with ASTM A 706.
- See Detail A on New Standard Plan NSP A86B for connection at headwall.



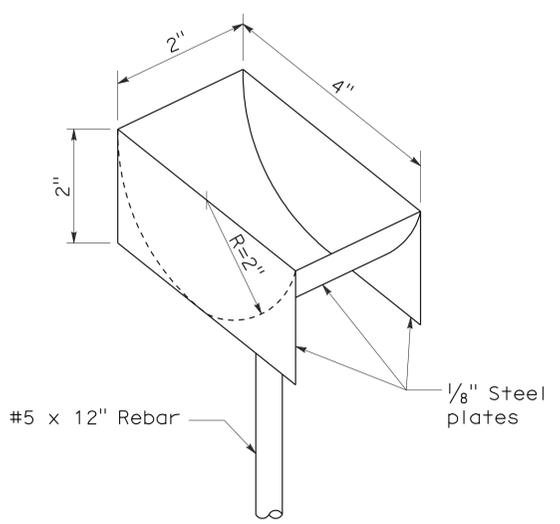
**TYPICAL DOUBLE GATE  
REMOVABLE CENTER POST**



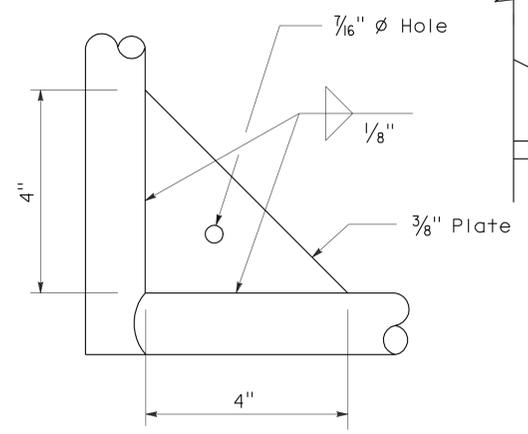
**METHOD OF TYING FENCE TO HEADWALL**



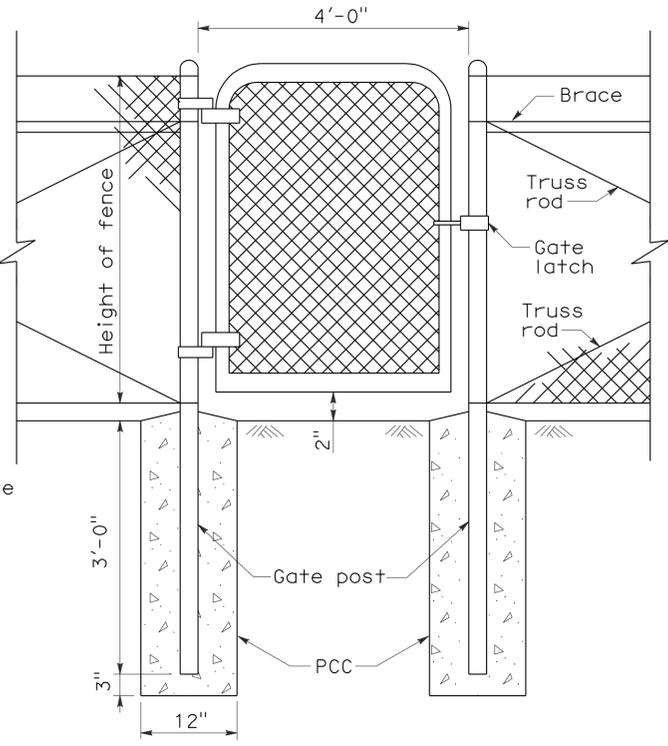
**METHOD OF ERECTING FENCE FOR FILL SLOPE**



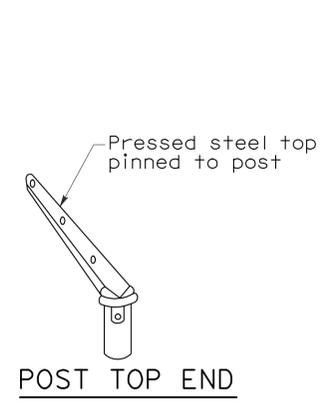
**PLUNGER CUP DETAIL**



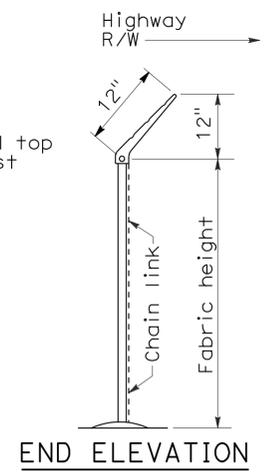
**GUSSET DETAIL**



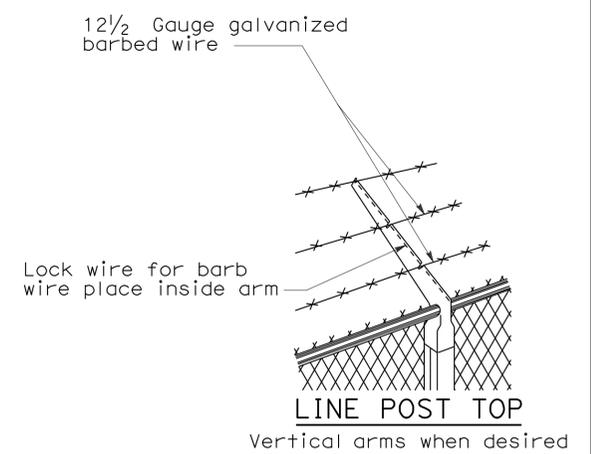
**WALK GATE**



**POST TOP END**



**BARBED WIRE POST TOP**  
See Note 3



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE DETAILS**  
 NO SCALE

NSP A85A DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP A85A**

2006 NEW STANDARD PLAN NSP A85A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	2.9/51.9	28	56

Glenn DeCou  
 REGISTERED CIVIL ENGINEER  
 No. C34547  
 Exp. 9-30-09  
 STATE OF CALIFORNIA

June 5, 2009  
 PLANS APPROVAL DATE

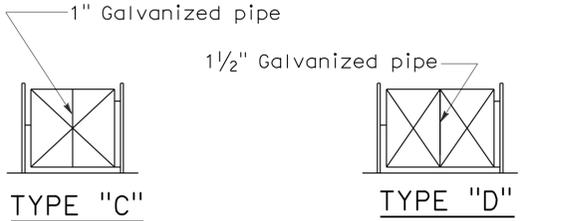
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To accompany plans dated 3-7-11



**TYPE "A"**  
3' and 6' Single  
6' and 12' Double

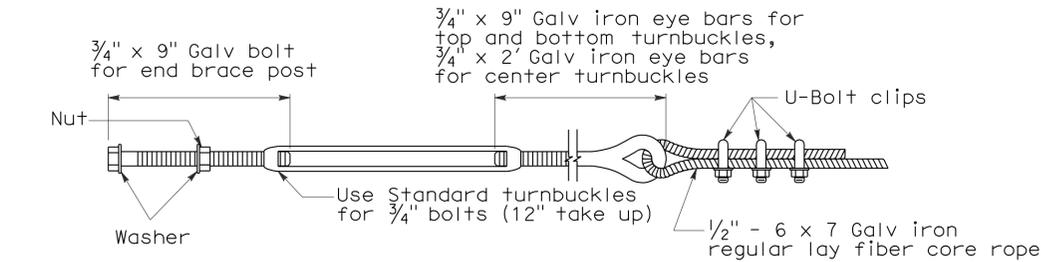
**TYPE "B"**  
Over 6' to 12' Single.  
Over 12' to 24' Double



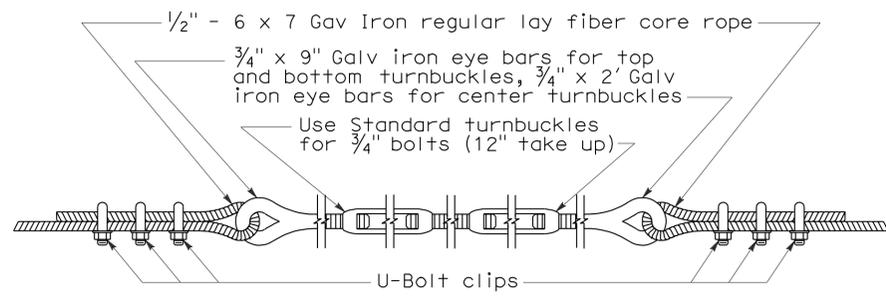
**TYPE "C"**  
Over 12' to 18' Single  
Over 24' to 36' Double.

**TYPE "D"**  
Over 18' to 24' Single  
Over 36' to 48' Double

**TYPICAL FRAMEWORK SHOWING NUMBER OF BAYS IN GATE**



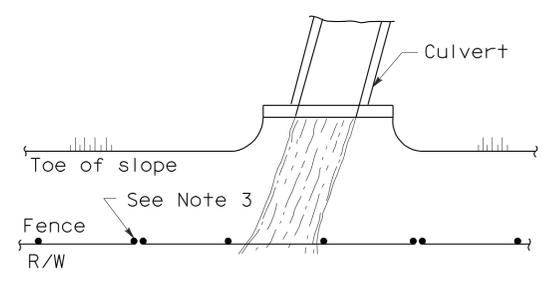
**TURNBUCKLE A**



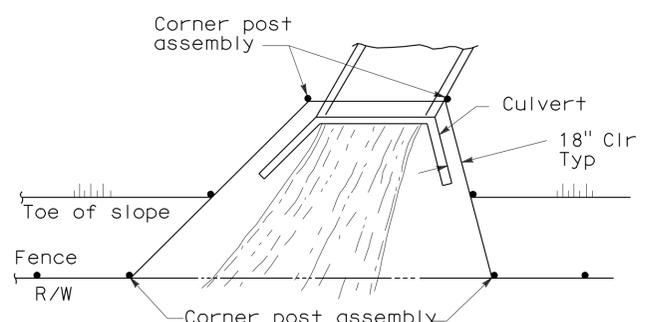
**TURNBUCKLE B**

**NOTES:**

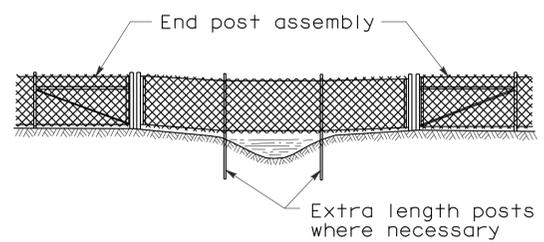
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Revised Standard Plan RSP A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



**PLAN**

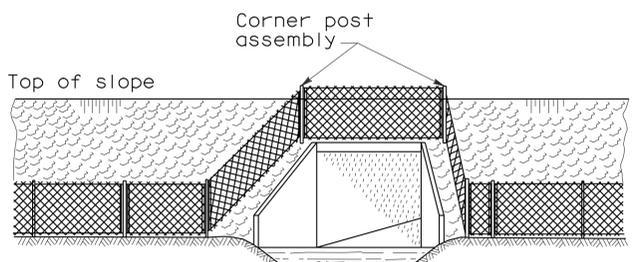


**PLAN**



**ELEVATION**

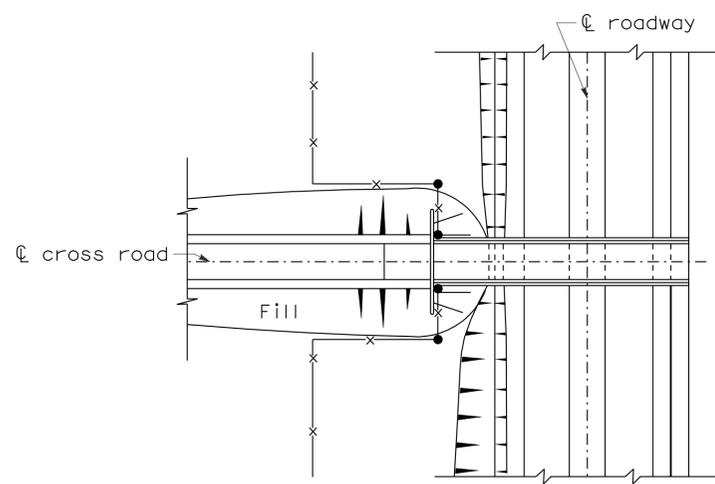
**INSTALLATION OVER STREAM**



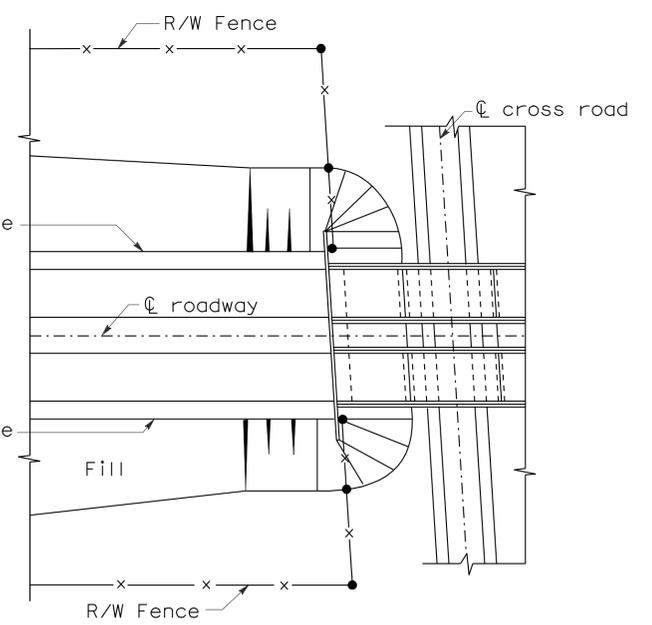
**ELEVATION**

**INSTALLATION AROUND HEADWALL**

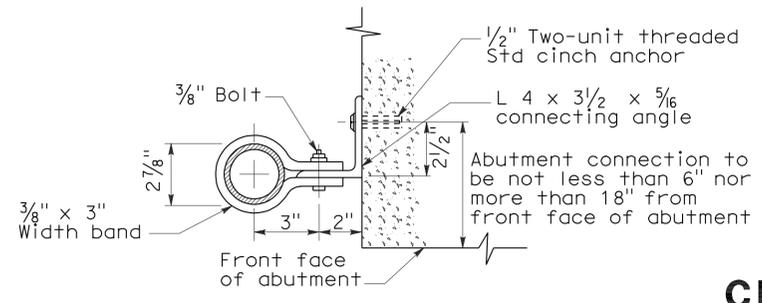
See Note 4



**PLAN OF ROADWAY - UNDERPASS**



**PLAN OF ROADWAY - OVERPASS**



**ABUTMENT CONNECTION**

**TYPICAL INSTALLATION AT BRIDGES**

**CHAIN LINK FENCE DETAILS**

NO SCALE

NSP A85B DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP A85B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	2.9/51.9	29	56

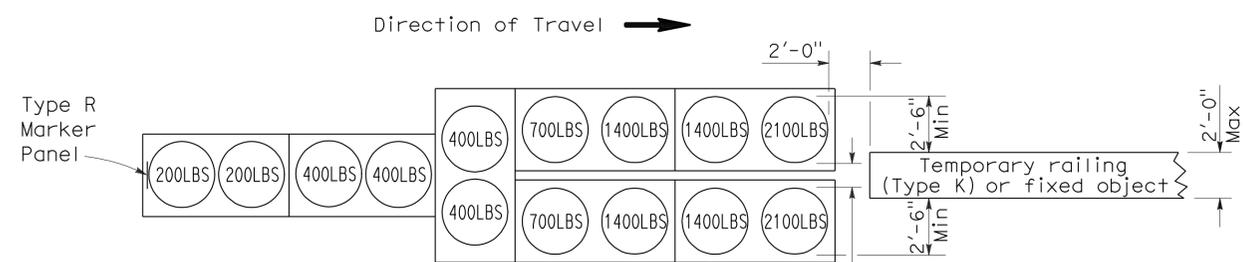
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

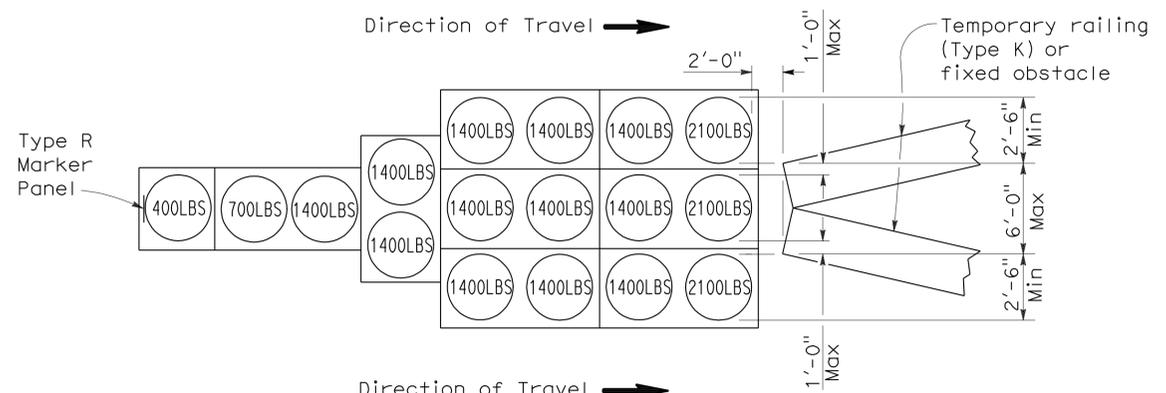
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 3-7-11



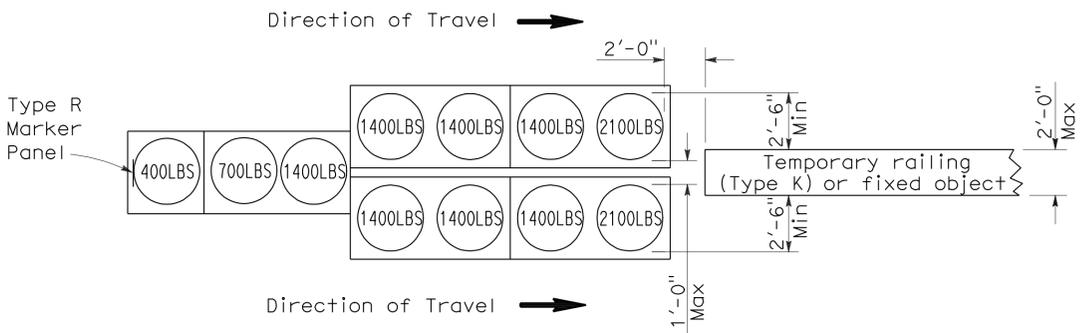
**ARRAY 'TU14'**

Approach speed 45 mph or more



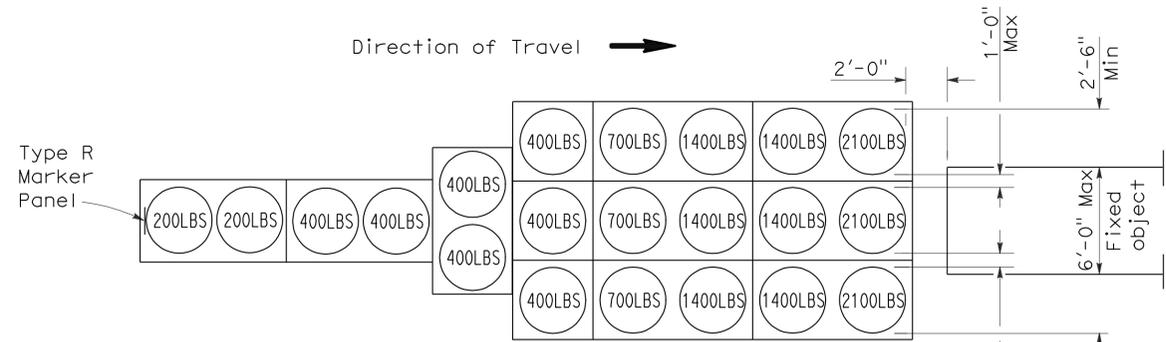
**ARRAY 'TU17'**

Approach speed less than 45 mph



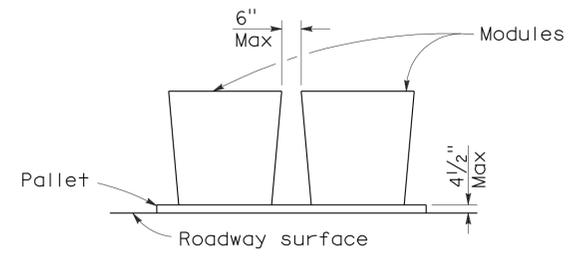
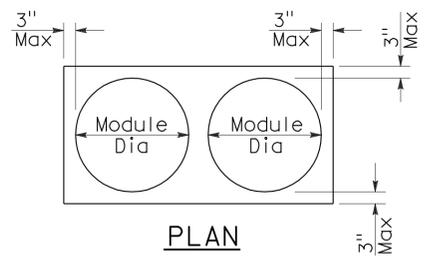
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A  
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

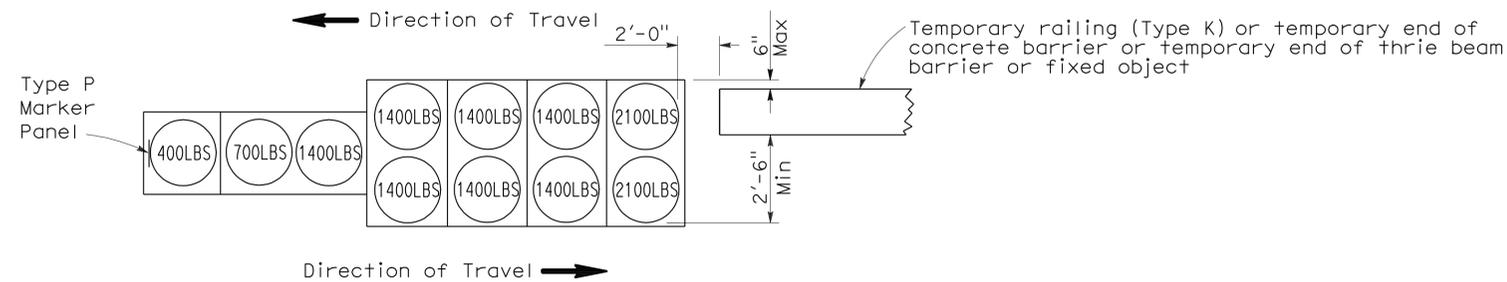
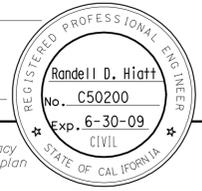
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	2.9/51.9	30	56

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

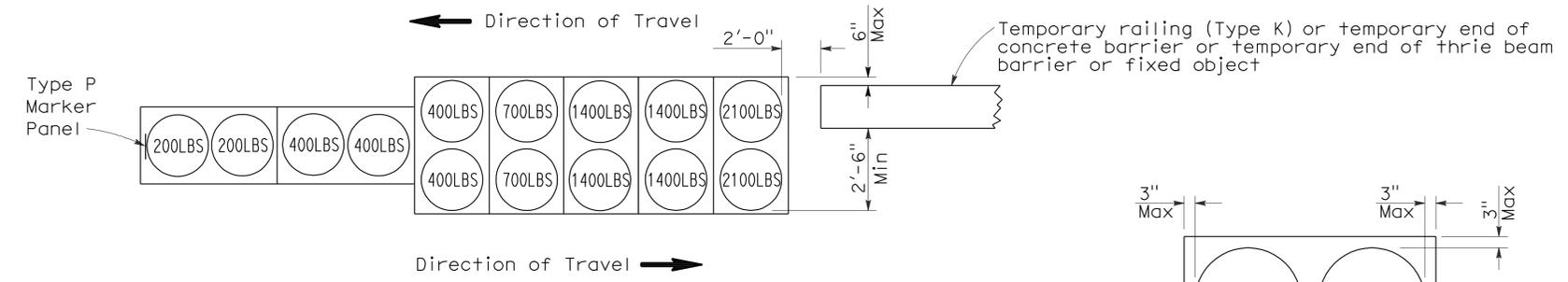
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 3-7-11



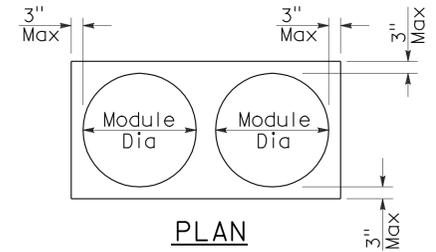
**ARRAY 'TB11'**

Approach speed less than 45 mph

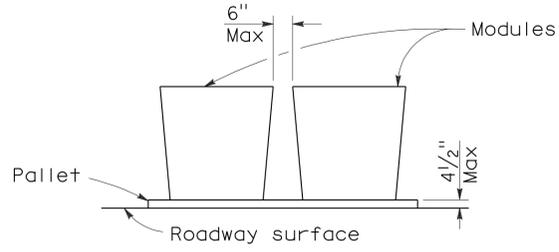


**ARRAY 'TB14'**

Approach speed 45 mph or more



PLAN



ELEVATION

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

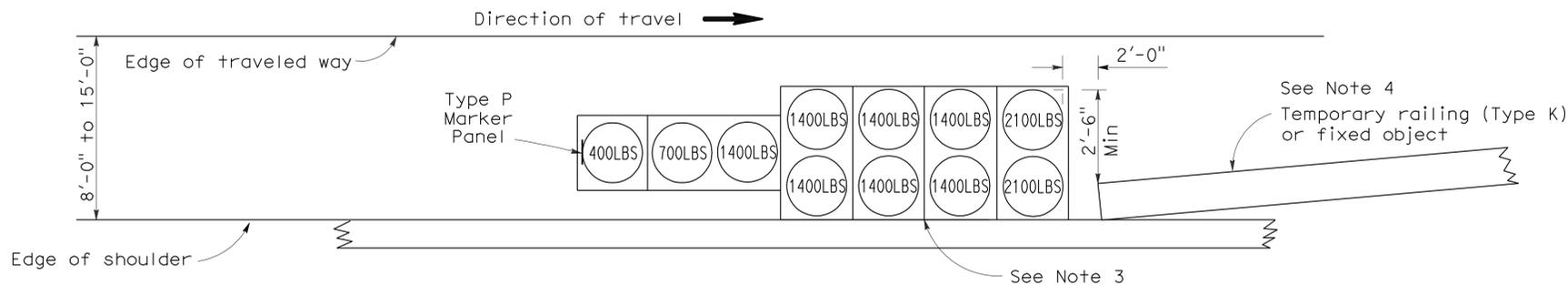
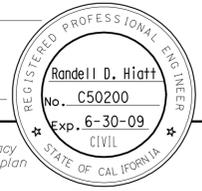
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	2.9/51.9	31	56

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

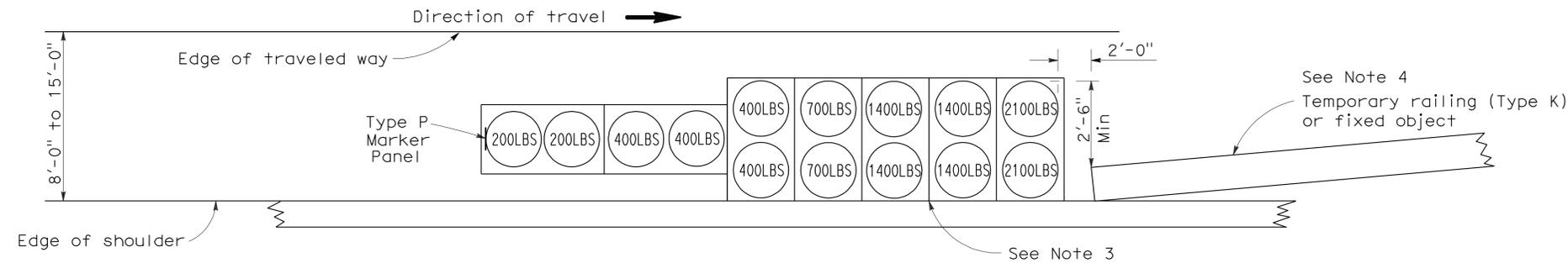
June 6, 2008  
PLANS APPROVAL DATE

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

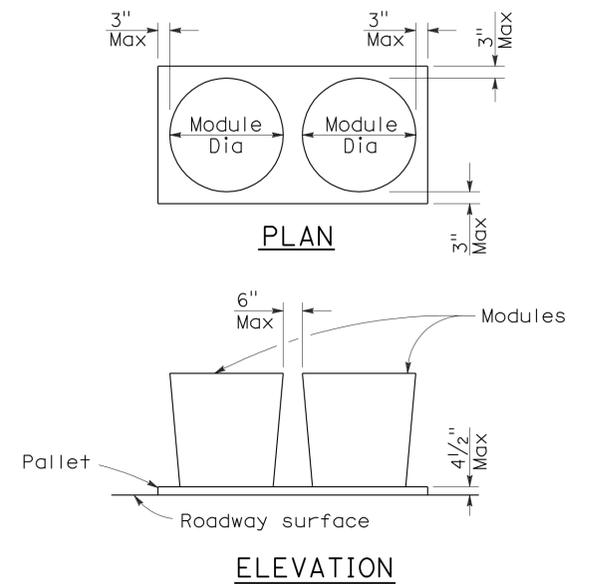
To accompany plans dated 3-7-11



**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

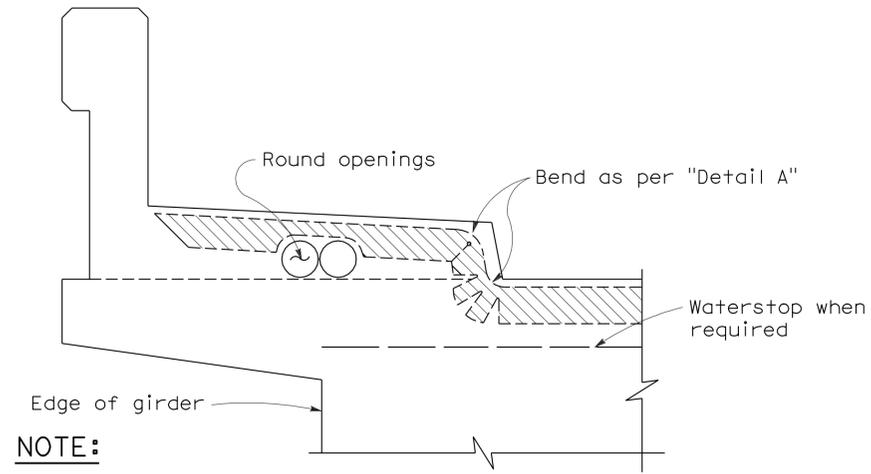
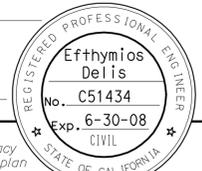
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

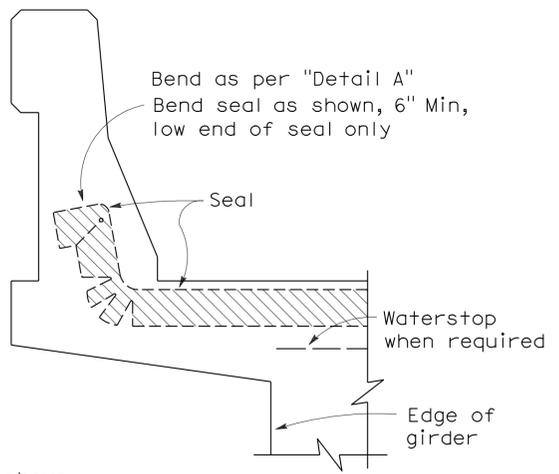
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

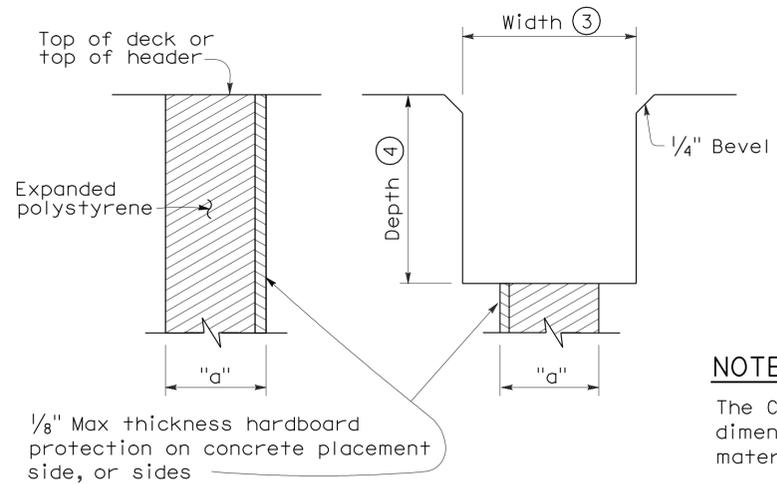


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



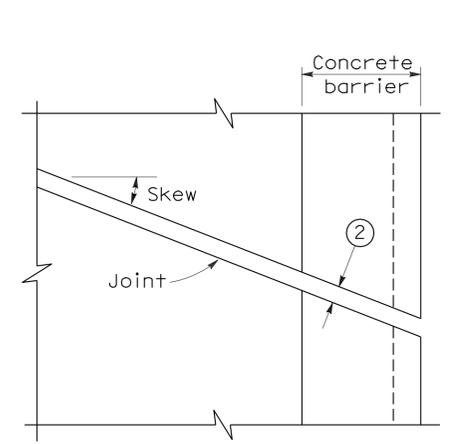
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

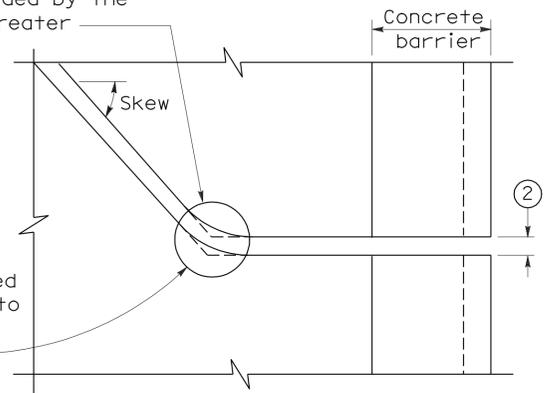
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



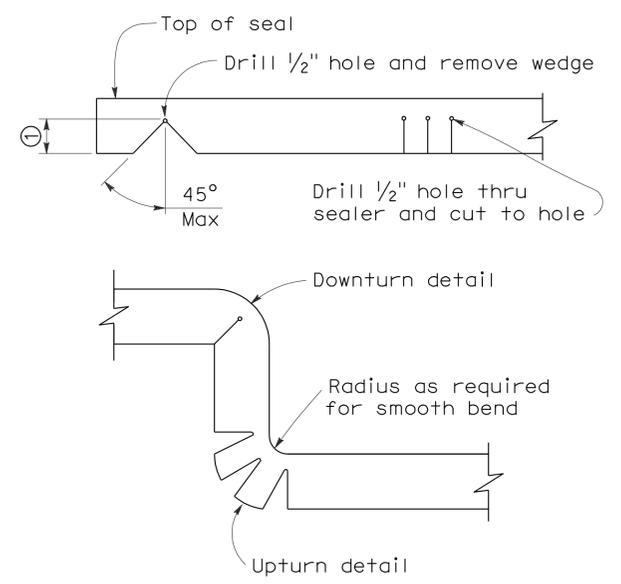
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



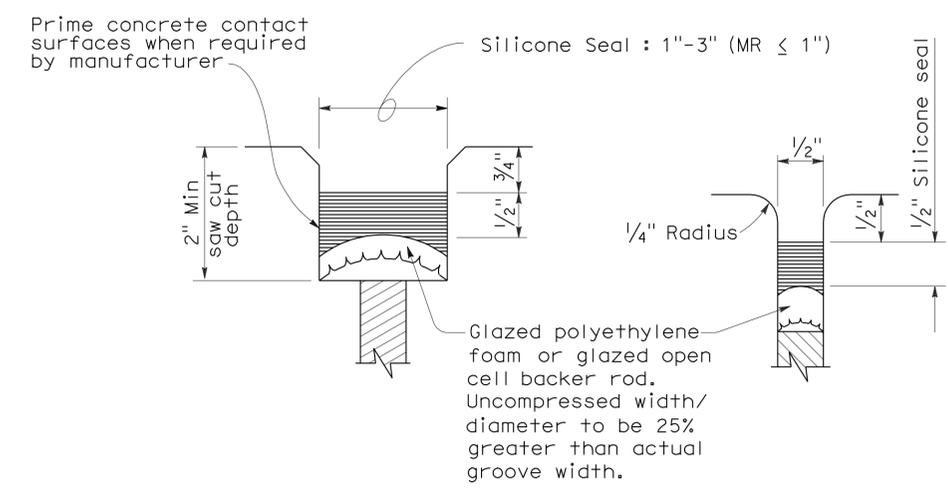
**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) plus dimensions shown.
  - MR (movement rating) as shown on other plan sheets.
  - Other depths must be approved by the Engineer.

**DIMENSIONS "a" OF JOINT REQUIRED**

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE

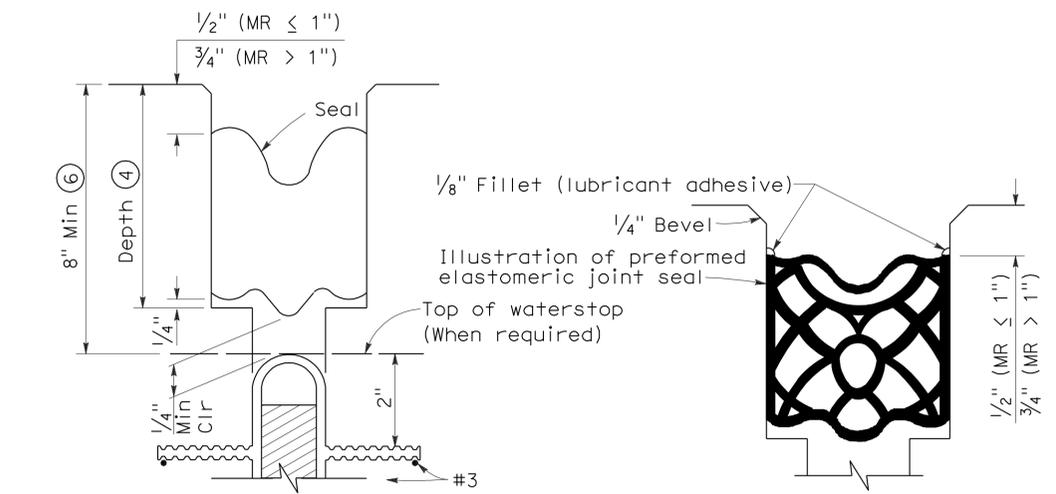


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP B6-21**

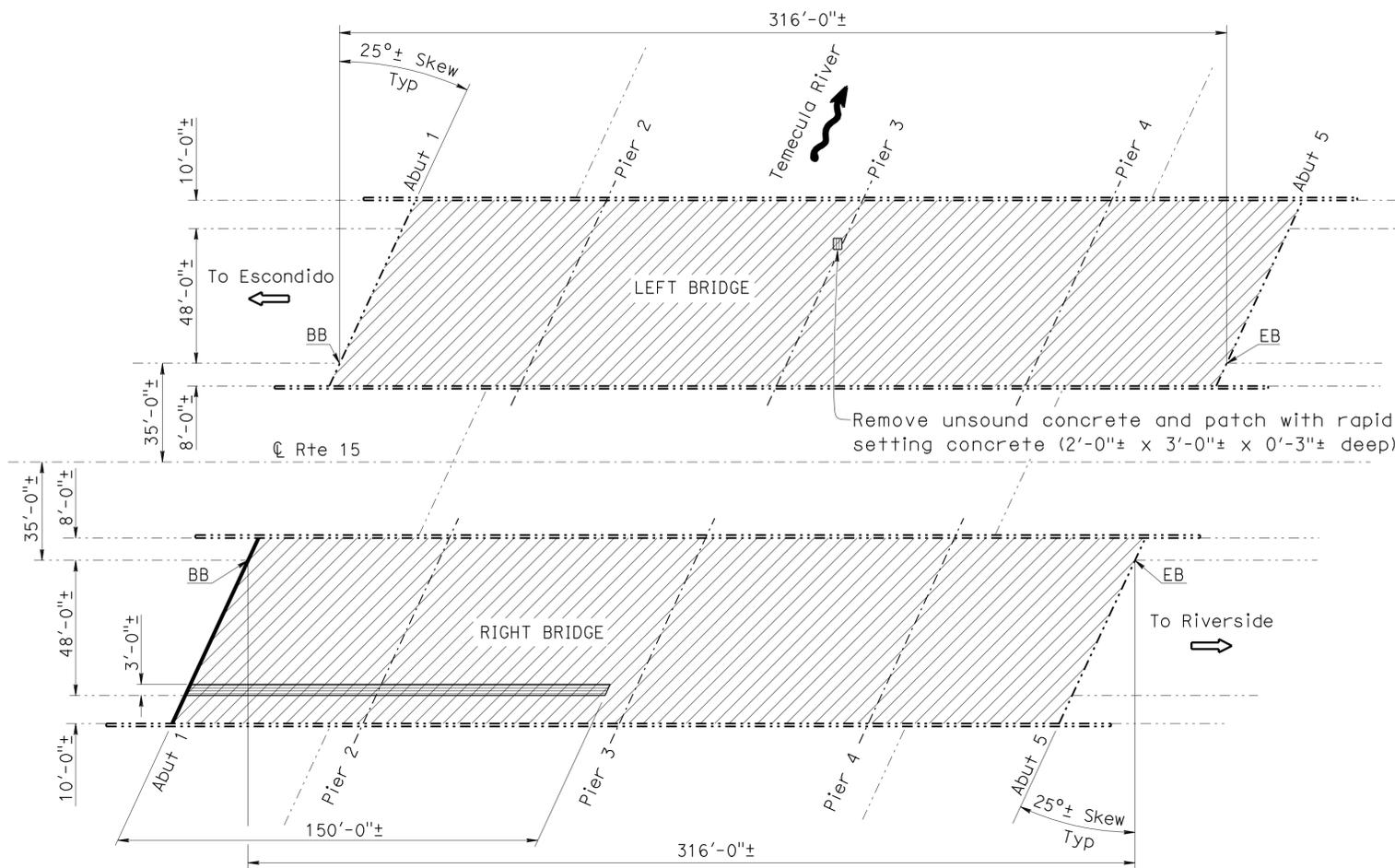
2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.96/51.9	33	56

REGISTERED CIVIL ENGINEER DATE 11-17-10  
 REGISTERED PROFESSIONAL ENGINEER  
 DIOSDADO ACOBA  
 No. 52003  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA  
 PLANS APPROVAL DATE 3-7-11  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTE: (APPLY TO ALL SHEETS)

----- Indicates existing.



**TEMECULA RIVER**

Br No. 56-0047R/L, ROUTE 15, PM 2.96  
SCALE: 1" = 30'

01 - TEMECULA RIVER 56-0047 L/R  
QUANTITIES

REMOVE EPOXY CHIP SEAL	450	SQFT
REMOVE UNSOUND CONCRETE	105	CF
CLEAN BRIDGE DECK	41,715	SQFT
CLEAN EXPANSION JOINT	74	LF
RAPID SETTING CONCRETE (PATCH)	105	CF
JOINT SEAL (MR 1")	74	LF
TREAT BRIDGE DECK	41,715	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	464	GAL

NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.



Indicates limits of remove Chip Seal.



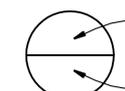
Indicates location of existing joint seal removal and placement of new joint seal.

**INDEX TO PLANS**

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	GENERAL PLAN No. 3
4	GENERAL PLAN No. 4
5	GENERAL PLAN No. 5
6	GENERAL PLAN No. 6
7	GENERAL PLAN No. 7
8	GENERAL PLAN No. 8
9	GENERAL PLAN No. 9
10	GENERAL PLAN No. 10
11	GENERAL PLAN No. 11
12	GENERAL PLAN No. 12
13	GENERAL PLAN No. 13
14	GENERAL PLAN No. 14
15	GENERAL PLAN No. 15
16	GENERAL PLAN No. 16
17	GENERAL PLAN No. 17
18	GENERAL PLAN No. 18
19	GENERAL PLAN No. 19
20	JOINT SEAL DETAILS No. 1
21	JOINT SEAL DETAILS No. 2
22	JOINT SEAL DETAILS No. 3
23	JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")
24	STRUCTURE APPROACH TYPE R(300)

**STANDARD PLANS DATED MAY 2006**

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
RSP A85	CHAIN LINK FENCE
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



STANDARD PLAN SHEET No.

DETAIL No.

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

  
 11-17-10  
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.96/51.9	34	56

11-17-10  
REGISTERED CIVIL ENGINEER DATE

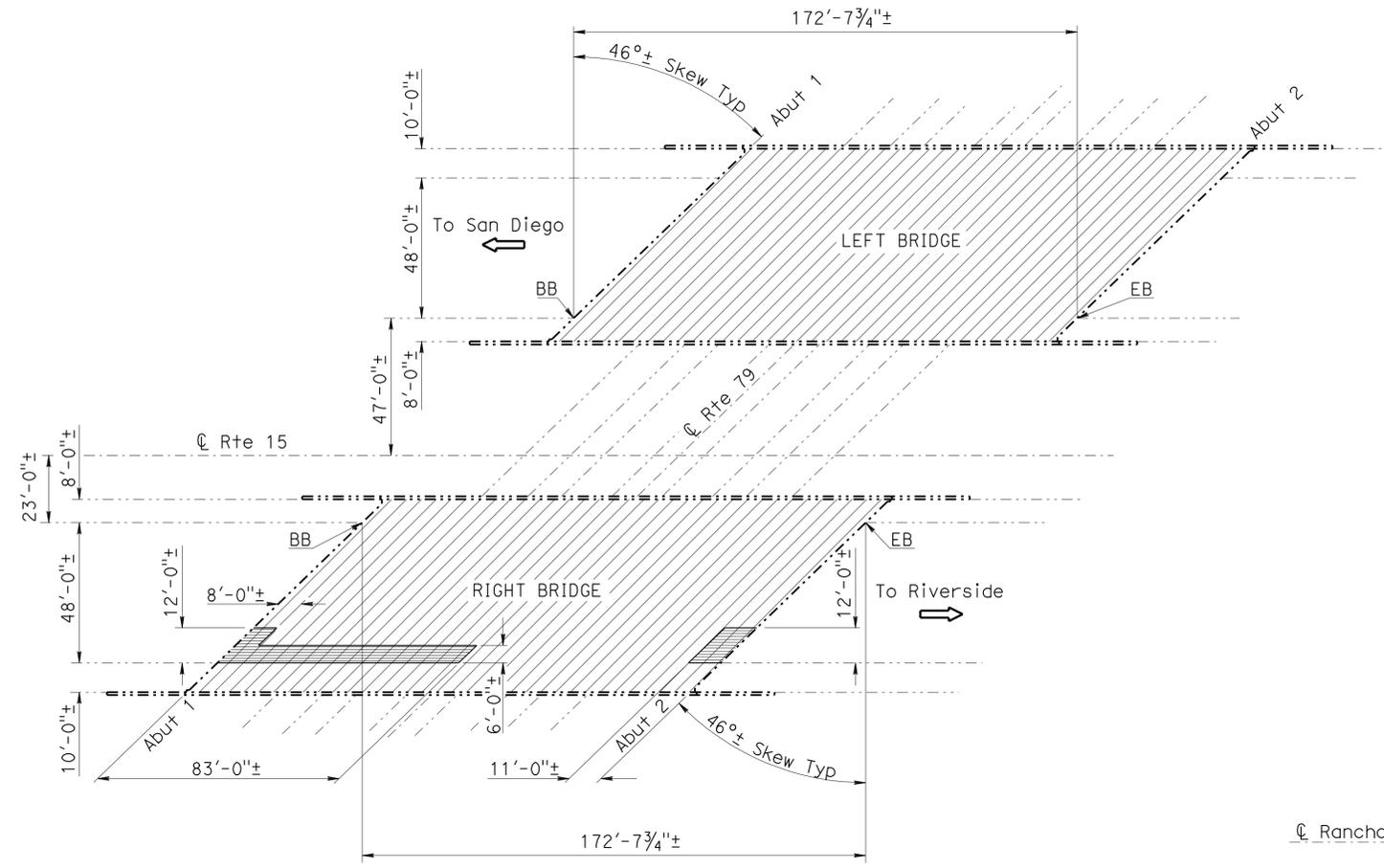
3-7-11  
PLANS APPROVAL DATE

DIOSDADO ACOPA  
No. 52003  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

NOTES: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.
-  Indicates limits of remove Chip Seal.

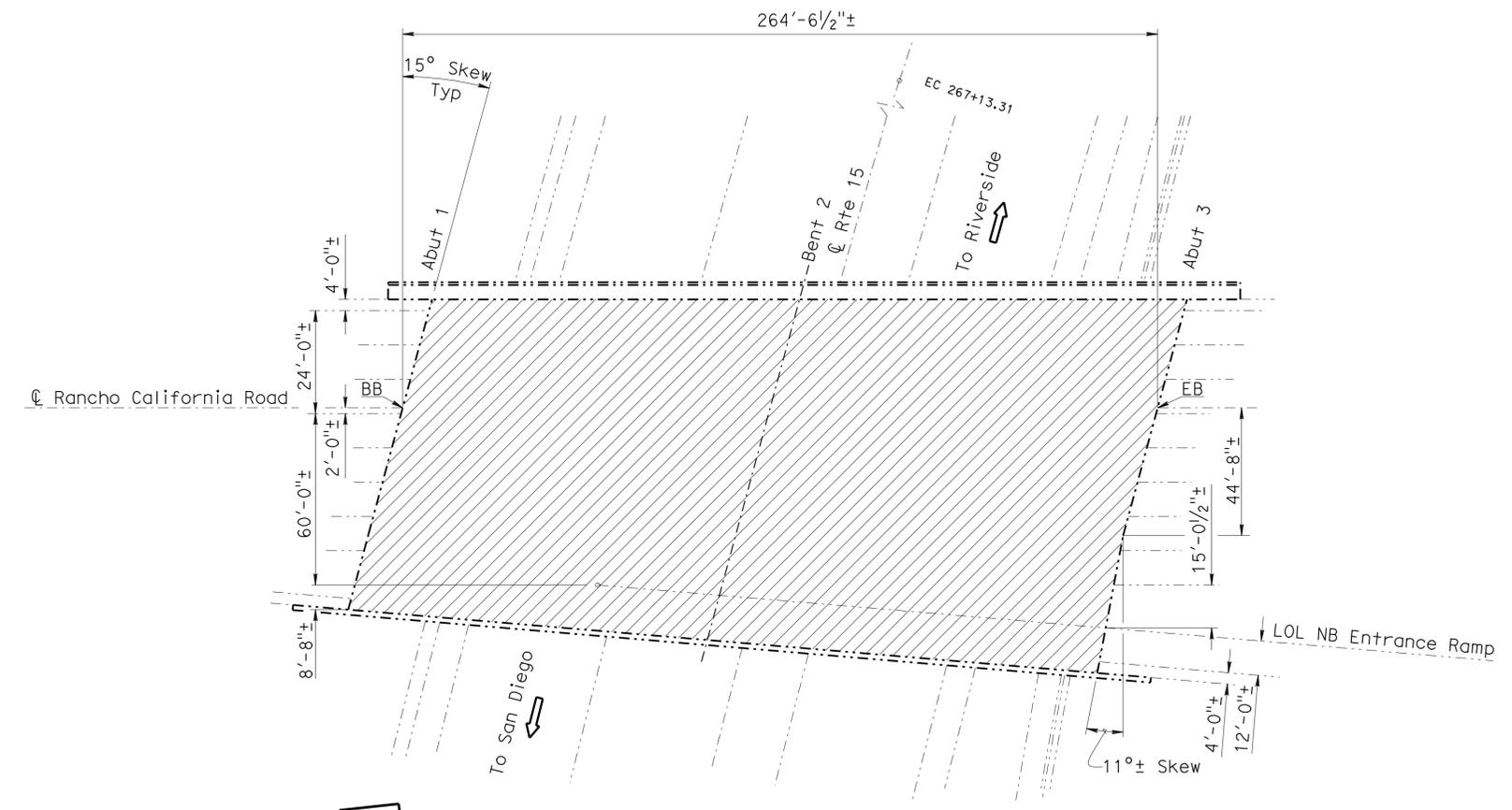


**ROUTE 15/79 SEPARATION**

Br No. 56-0653R/L, ROUTE 15, PM 3.42  
SCALE: 1" = 30'

02 - Rte 15/79 SEPARATION 56-0653 L/R QUANTITIES			
REMOVE EPOXY CHIP SEAL	678	SOFT	
REMOVE UNSOUND CONCRETE	29	CF	
CLEAN BRIDGE DECK	11,395	SOFT	
RAPID SETTING CONCRETE (PATCH)	29	CF	
TREAT BRIDGE DECK	11,395	SOFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	127	GAL	

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



**RANCHO CALIFORNIA OVERCROSSING**

Br No. 56-0655, ROUTE 15, PM 4.98  
SCALE: 1" = 30'

03 - RANCHO CALIFORNIA RD OC 56-0655 QUANTITIES			
REMOVE UNSOUND CONCRETE	72	CF	
CLEAN BRIDGE DECK	28,560	SOFT	
RAPID SETTING CONCRETE (PATCH)	72	CF	
TREAT BRIDGE DECK	28,560	SOFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	318	GAL	

*M. Hashimoto*  
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

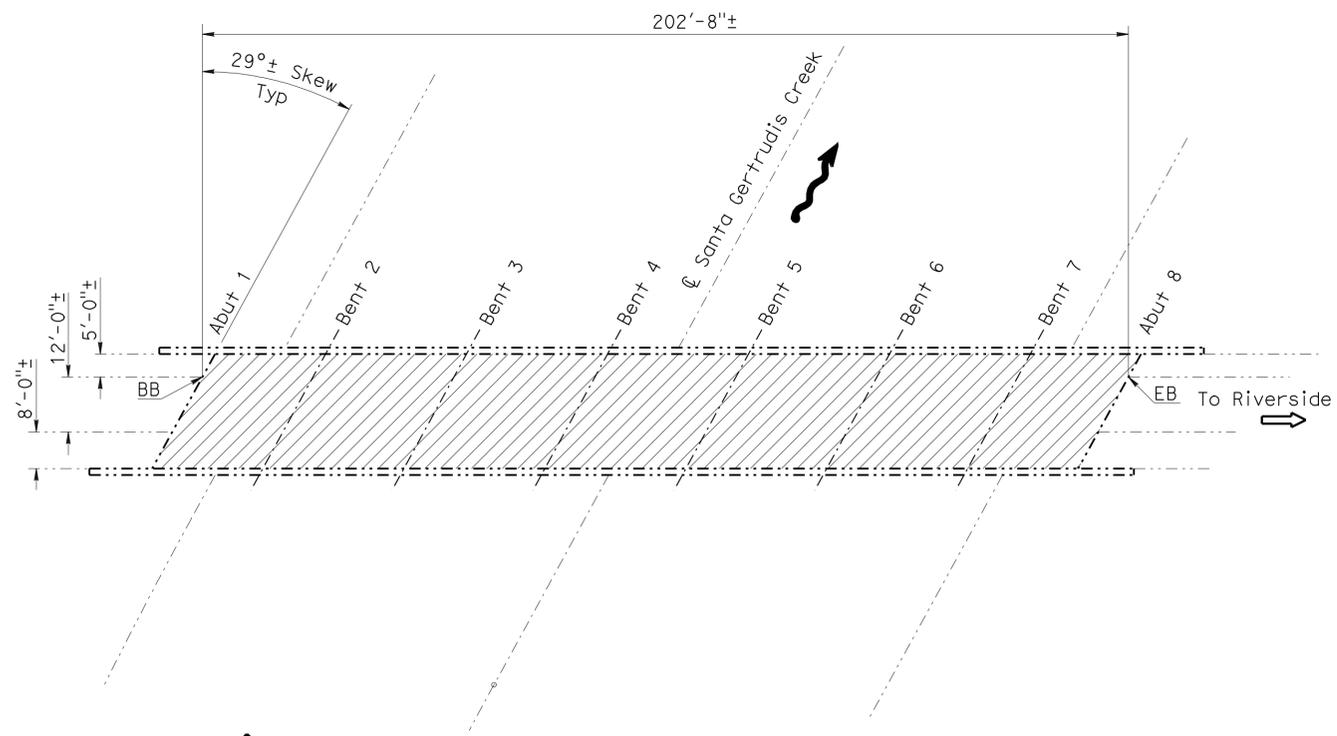
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 2

USERNAME => PMP0110 DATE PLOTTED => 10-MAR-2011 TIME PLOTTED => 10:05

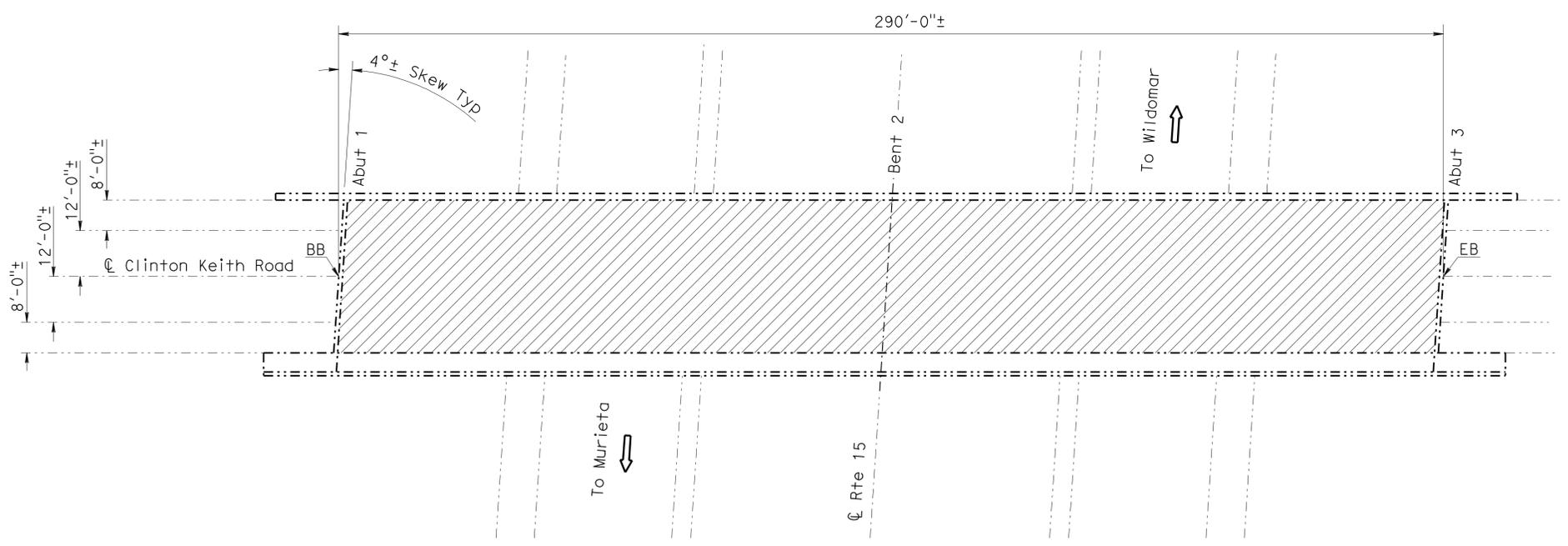
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.96/51.9	35	56
REGISTERED CIVIL ENGINEER			DATE	11-17-10	
PLANS APPROVAL DATE			3-7-11		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA					
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**SANTA GERTRUDIS CREEK**  
 Br No. 56-0271S, ROUTE 15, PM 6.73  
 SCALE: 1" = 20'

04 - SANTA GERTRUDIS CREEK 56-0271S  
 QUANTITIES

REMOVE UNSOUND CONCRETE	24	CF
CLEAN BRIDGE DECK	5,070	SQFT
RAPID SETTING CONCRETE (PATCH)	24	CF
TREAT BRIDGE DECK	5,070	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	57	GAL



**CLINTON KEITH ROAD OVERCROSSING**  
 Br No. 56-0721, ROUTE 15, PM 13.64  
 SCALE: 1" = 20'

05 - CLINTON KEITH Rd OC 56-0721  
 QUANTITIES

REMOVE UNSOUND CONCRETE	29	CF
CLEAN BRIDGE DECK	11,600	SQFT
RAPID SETTING CONCRETE (PATCH)	29	CF
TREAT BRIDGE DECK	11,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	129	GAL

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

*Mattie Cole* 11-17-10  
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

**ROUTE 15 BRIDGES  
 GENERAL PLAN NO. 3**

USERNAME => PTH00110 DATE PLOTTED => 10-MAR-2011 TIME PLOTTED => 10:05

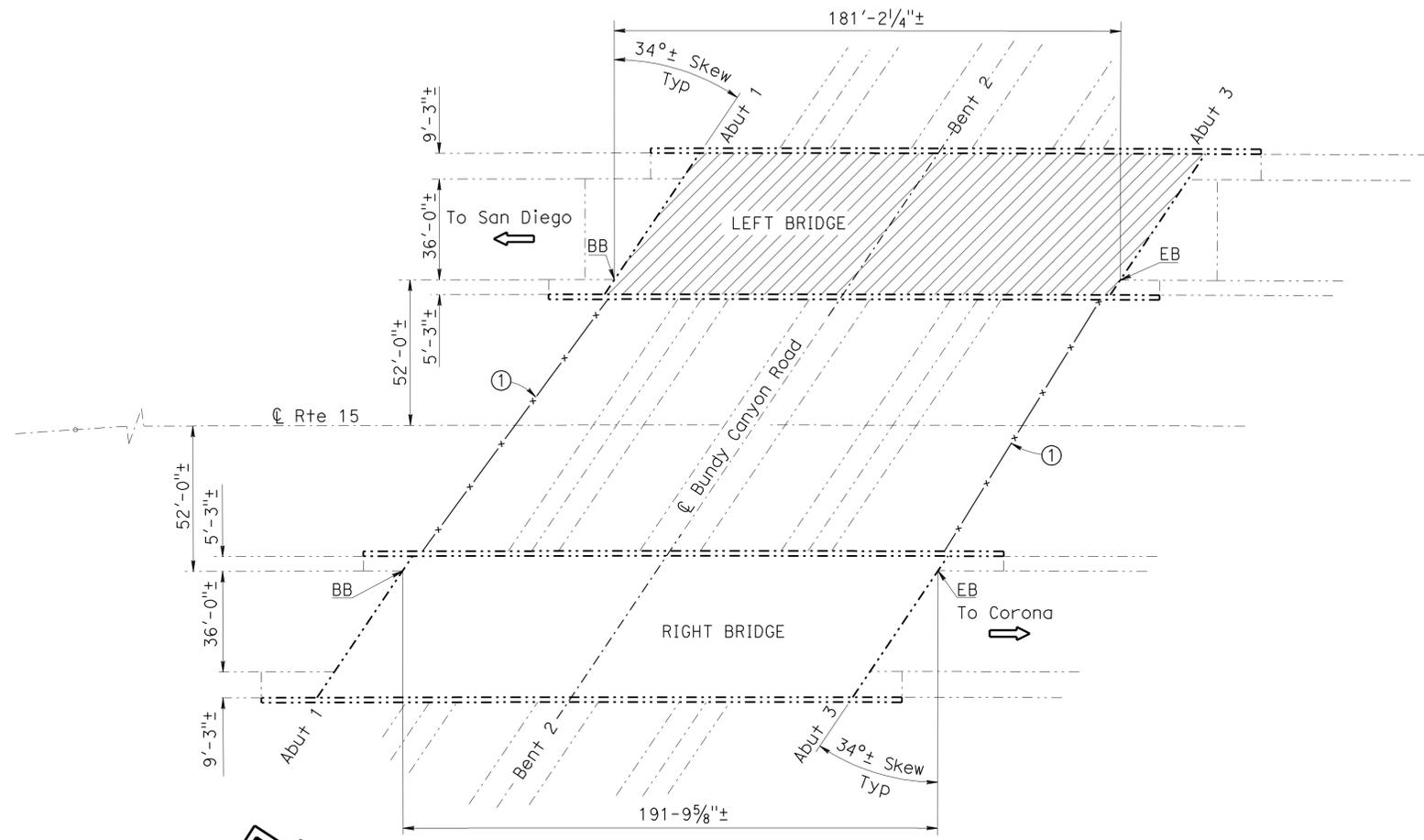
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	36	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

 Indicates location of existing joint seal removal and placement of new joint seal.

① - Indicates location of remove and replace 10'± section existing chain link fence to allow placement for new access gate opening 36" wide. Location to be determined by Engineer. For details, see 

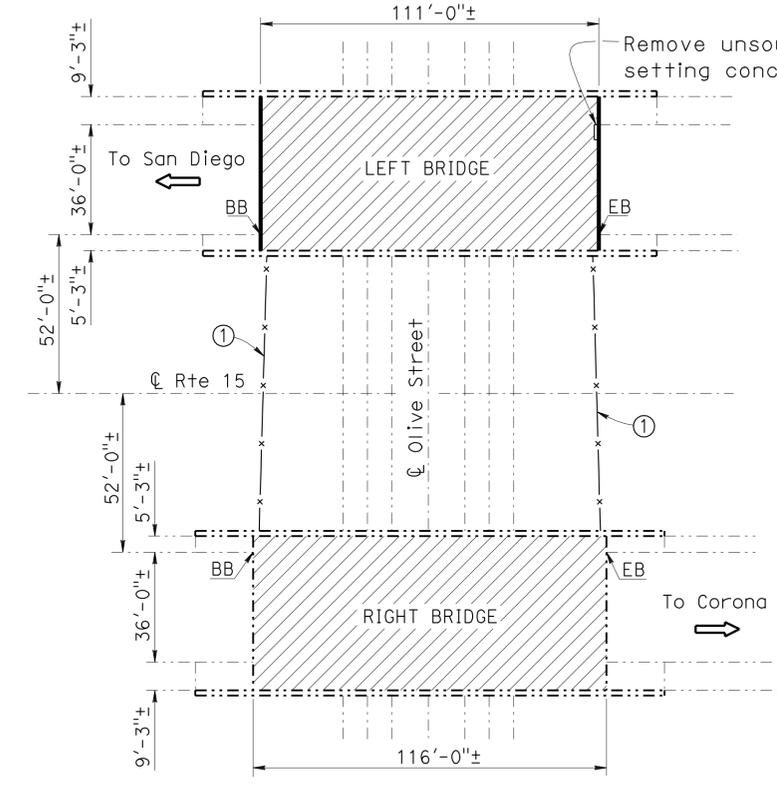


**BUNDY CANYON ROAD UNDERCROSSING**  
 Br. No. 56-0717L, ROUTE 15, PM 16.3  
 1" = 30'

06 - BUNDY CANYON RD UC 56-0717L QUANTITIES

REMOVE CHAIN LINK FENCE	20	LF
REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,200	SQFT
RAPID SETTING CONCRETE (PATCH)	23	CF
TREAT BRIDGE DECK	9,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	102	GAL
CHAIN LINK FENCE	14	LF
CHAIN LINK GATE	2	EA

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



**OLIVE STREET UNDERCROSSING**  
 Br. No. 56-0719L/R, ROUTE 15, PM 17.52  
 1" = 30'

07 - OLIVE STREET UC 56-0719 L/R QUANTITIES

REMOVE CHAIN LINK FENCE	20	LF
REMOVE UNSOUND CONCRETE	29	CF
CLEAN BRIDGE DECK	11,580	SQFT
CLEAN EXPANSION JOINT	104	LF
RAPID SETTING CONCRETE (PATCH)	29	CF
JOINT SEAL (MR 1/2")	104	LF
TREAT BRIDGE DECK	11,580	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	129	GAL
CHAIN LINK FENCE	14	LF
CHAIN LINK GATE	2	EA

Remove unsound concrete and patch with rapid setting concrete (0'-6"± x 3'-0"± x 0'-3"± deep)

  
 DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

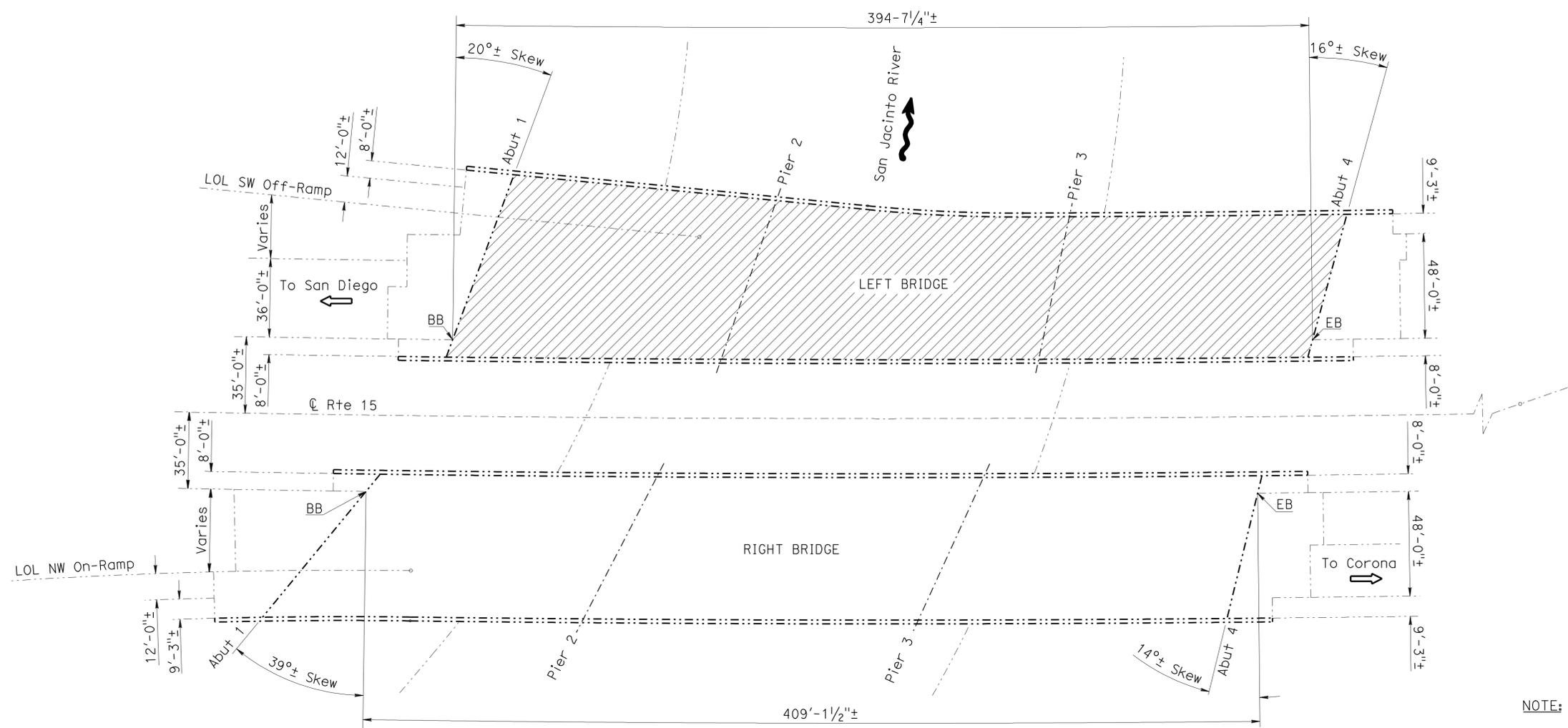
ROUTE 15 BRIDGES  
 GENERAL PLAN NO. 4

USERNAME => HSTFK DATE PLOTTED => 10-MAR-2011 TIME PLOTTED => 08:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	37	56

 11-17-10  
 REGISTERED CIVIL ENGINEER DATE  
 3-7-11  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 DIOSDADO ACOBA  
 No. 52003  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA



**SAN JACINTO RIVER**  
 Br. No. 56-0728L, ROUTE 15, PM 19.37  
 1" = 30'

08 - SAN JACINTO RIVER 56-0728L  
QUANTITIES

REMOVE UNSOUND CONCRETE	69	CF
CLEAN BRIDGE DECK	27,510	SQFT
RAPID SETTING CONCRETE (PATCH)	69	CF
TREAT BRIDGE DECK	27,510	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	305	GAL

NOTE: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

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

 11-17-10  
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 15 BRIDGES**  
**GENERAL PLAN NO. 5**



5-4-10	8-14-10	11-30-10					
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USERNAME => HSTFK DATE PLOTTED => 10-MAR-2011 TIME PLOTTED => 08:55

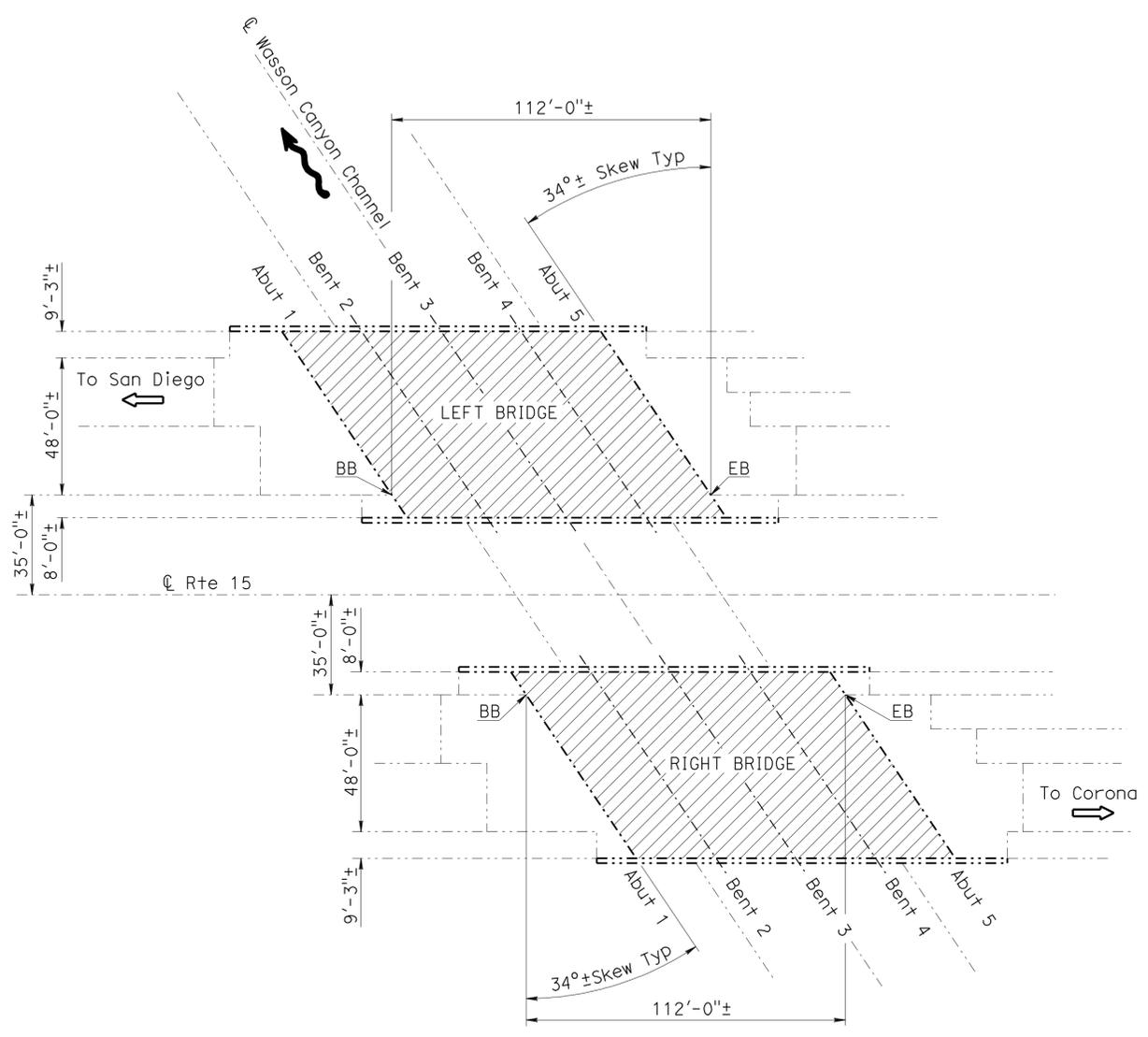
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	38	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)

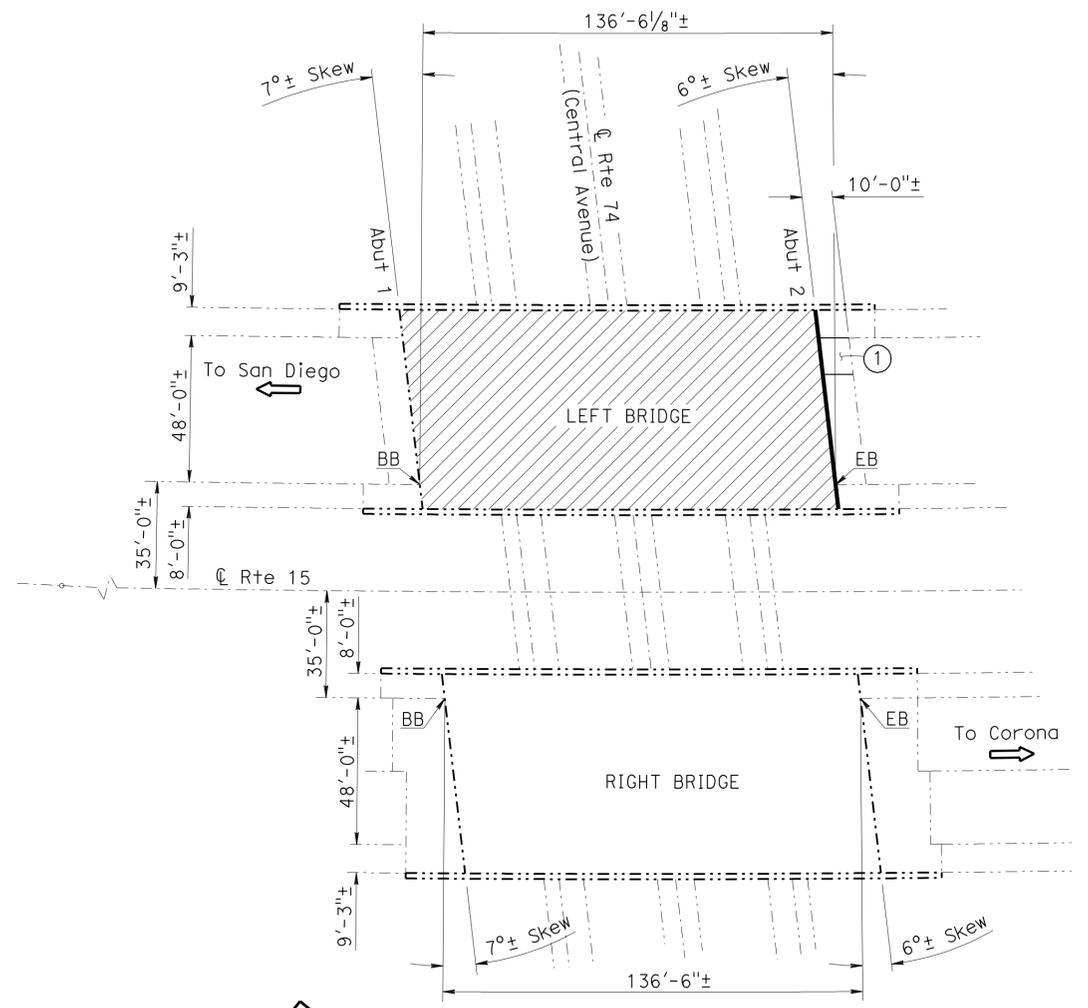
 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

 Indicates location of existing joint seal removal and placement of new joint seal.

① Indicates remove and replace approach slab in lane 3.



**WASSON CANYON WASH**  
 Br. No. 56-0739R/L, ROUTE 15, PM 21.57  
 1" = 30'



**ROUTE 15/74 SEPARATION**  
 Br. No. 56-0723L, ROUTE 15, PM 22.26  
 1" = 30'

09 - WASSON CANYON WASH 56-0739 L/R QUANTITIES

REMOVE UNSOUND CONCRETE	37	CF
CLEAN BRIDGE DECK	14,620	SQFT
RAPID SETTING CONCRETE (PATCH)	37	CF
TREAT BRIDGE DECK	14,620	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	163	GAL
PUBLIC SAFETY PLAN		LUMP SUM

10 - RTE 15/74 SEPARATION 56-0723L QUANTITIES

REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,030	SQFT
AGGREGATE BASE (APPROACH SLAB)	1	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	5	CY
CLEAN EXPANSION JOINT	55	LF
RAPID SETTING CONCRETE (PATCH)	23	CF
JOINT SEAL (MR 1")	67	LF
TREAT BRIDGE DECK	9,030	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	100	GAL

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

  
 11-17-10  
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 15 BRIDGES  
 GENERAL PLAN NO. 6

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

 Indicates location of existing joint seal removal and placement of new joint seal.

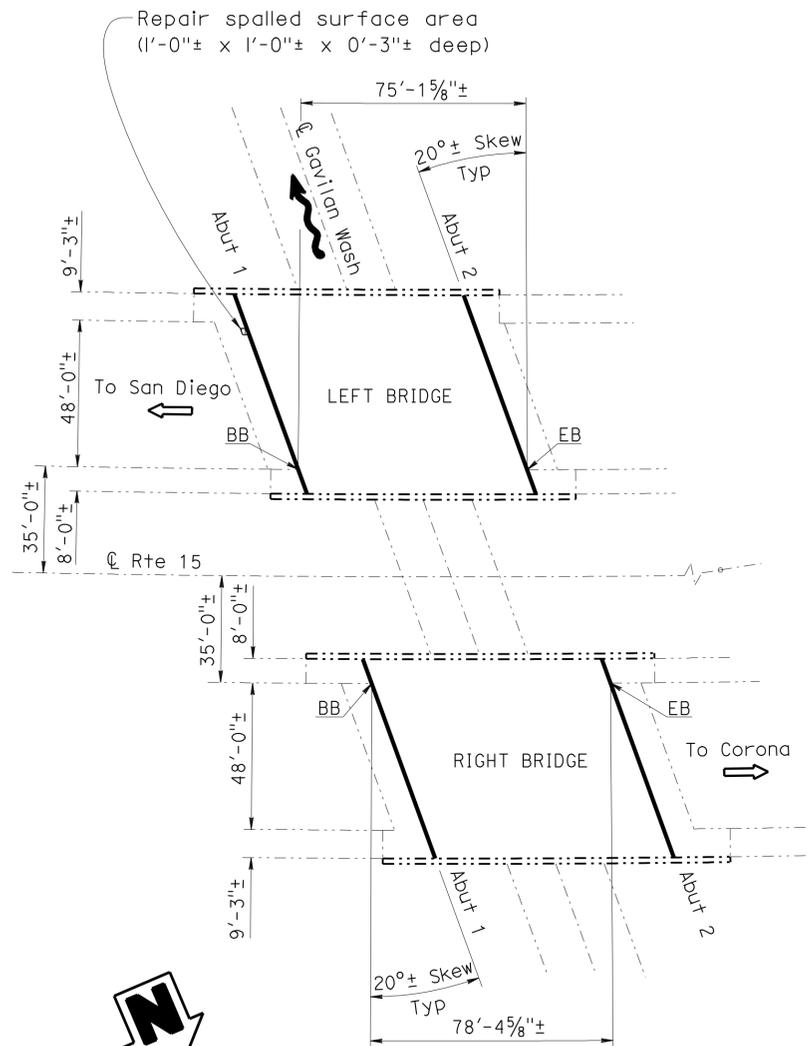
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	39	56

11-17-10  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
DIOSDADO ACOPA  
No. 52003  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

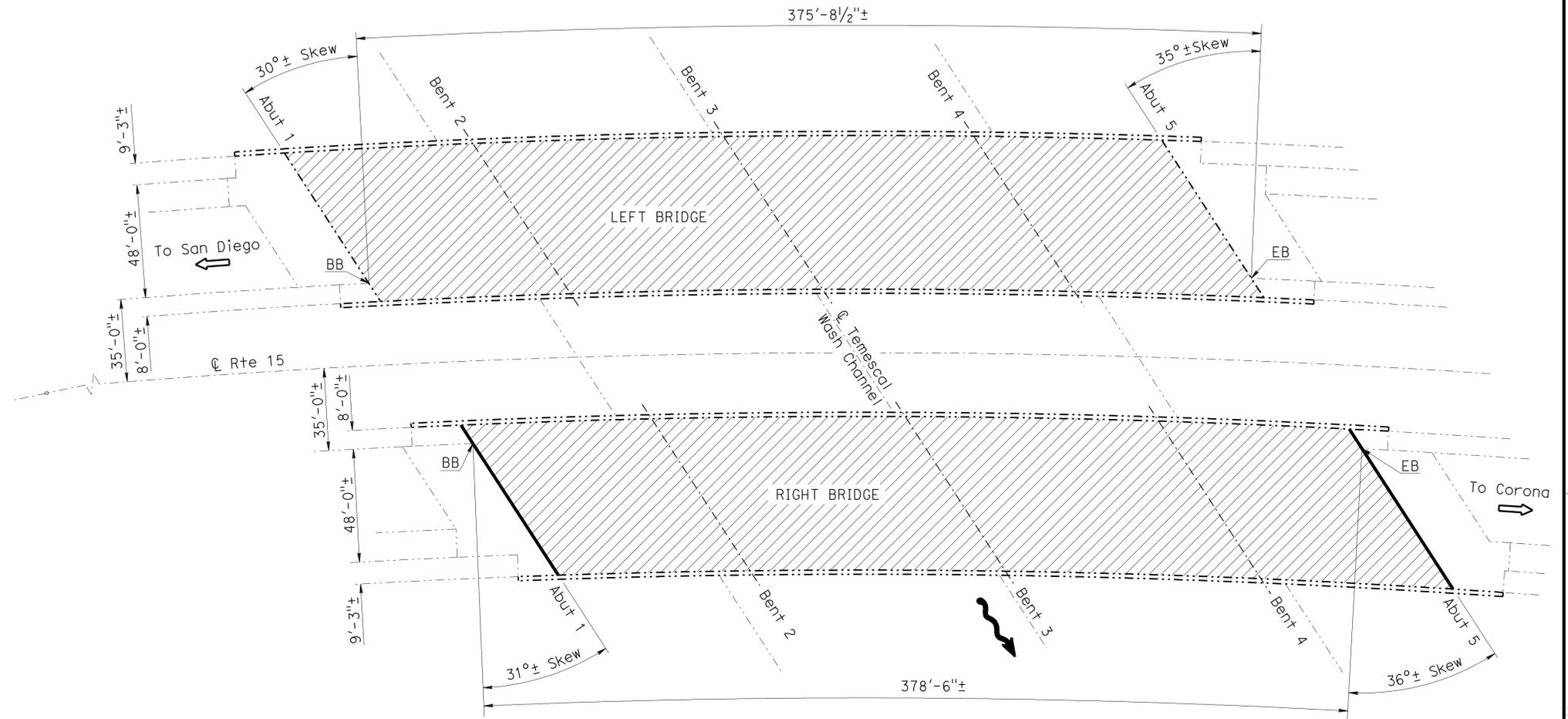
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**GAVILAN WASH**

Br. No. 56-0726R/L, ROUTE 15, PM 25.55  
1" = 30'

11 - GAVILAN WASH 56-0726 L/R	
CLEAN EXPANSION JOINT	280 LF
REPAIR SPALLED SURFACE AREA	1 SQFT
JOINT SEAL (MR 1/2")	280 LF



**TEMESCAL WASH**

Br. No. 56-0680R/L, ROUTE 15, PM 28.04  
1" = 30'

12 - TEMESCAL WASH 56-0680 L/R	
REMOVE UNSOUND CONCRETE	123 CF
CLEAN BRIDGE DECK	49,215 SQFT
CLEAN EXPANSION JOINT	161 LF
RAPID SETTING CONCRETE (PATCH)	123 CF
JOINT SEAL (MR 1 1/2")	161 LF
TREAT BRIDGE DECK	49,215 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	547 GAL

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

  
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

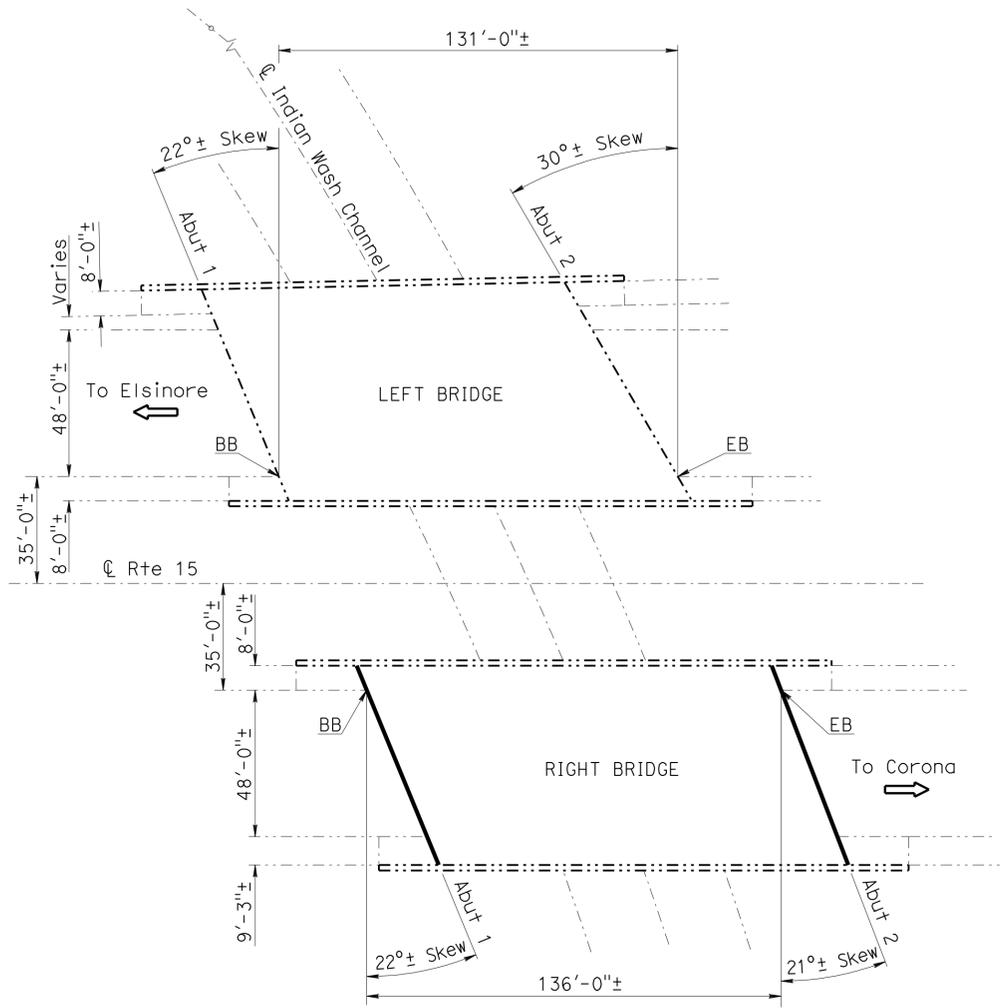
BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 7

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates location of existing joint seal removal and placement of new joint seal.

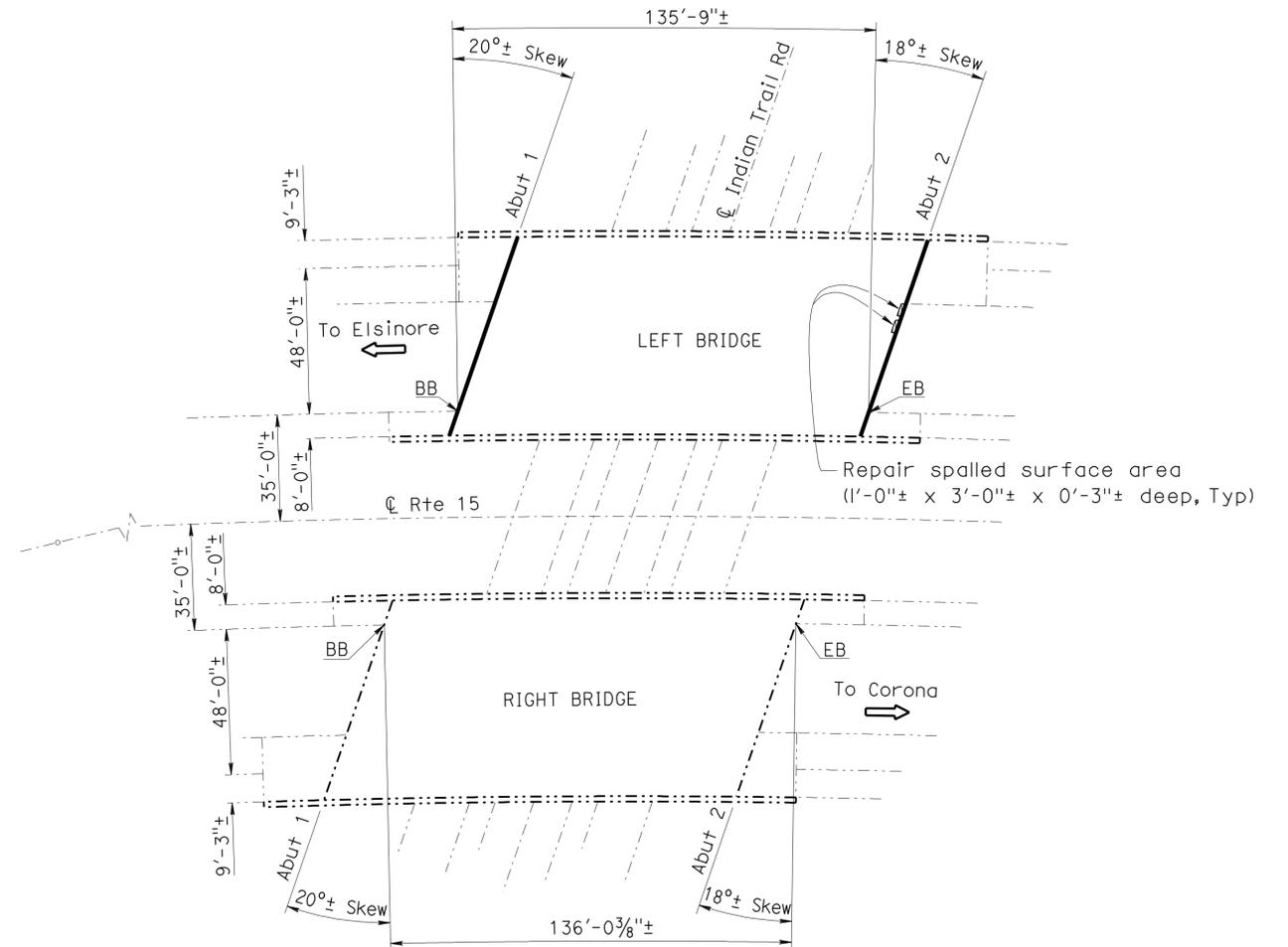
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	40	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA					
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**INDIAN WASH**

Br. No. 56-0677R, ROUTE 15, PM 30.09  
1" = 30'

13 - INDIAN WASH 56-0677R	QUANTITIES	
CLEAN EXPANSION JOINT		142 LF
JOINT SEAL (MR 1")		142 LF



**INDIAN TRUCK TRAIL UNDERCROSSING**

Br. No. 56-0676L, ROUTE 15, PM 30.40  
1" = 30'

14 - INDIAN TRUCK TRAIL UC 56-0676L	QUANTITIES	
CLEAN EXPANSION JOINT		139 LF
REPAIR SPALLED SURFACE AREA		6 SQFT
JOINT SEAL (MR 1")		139 LF

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

 11-17-10  
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba
DETAILS	BY Dale Kubochi	CHECKED Don Acoba
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba

LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

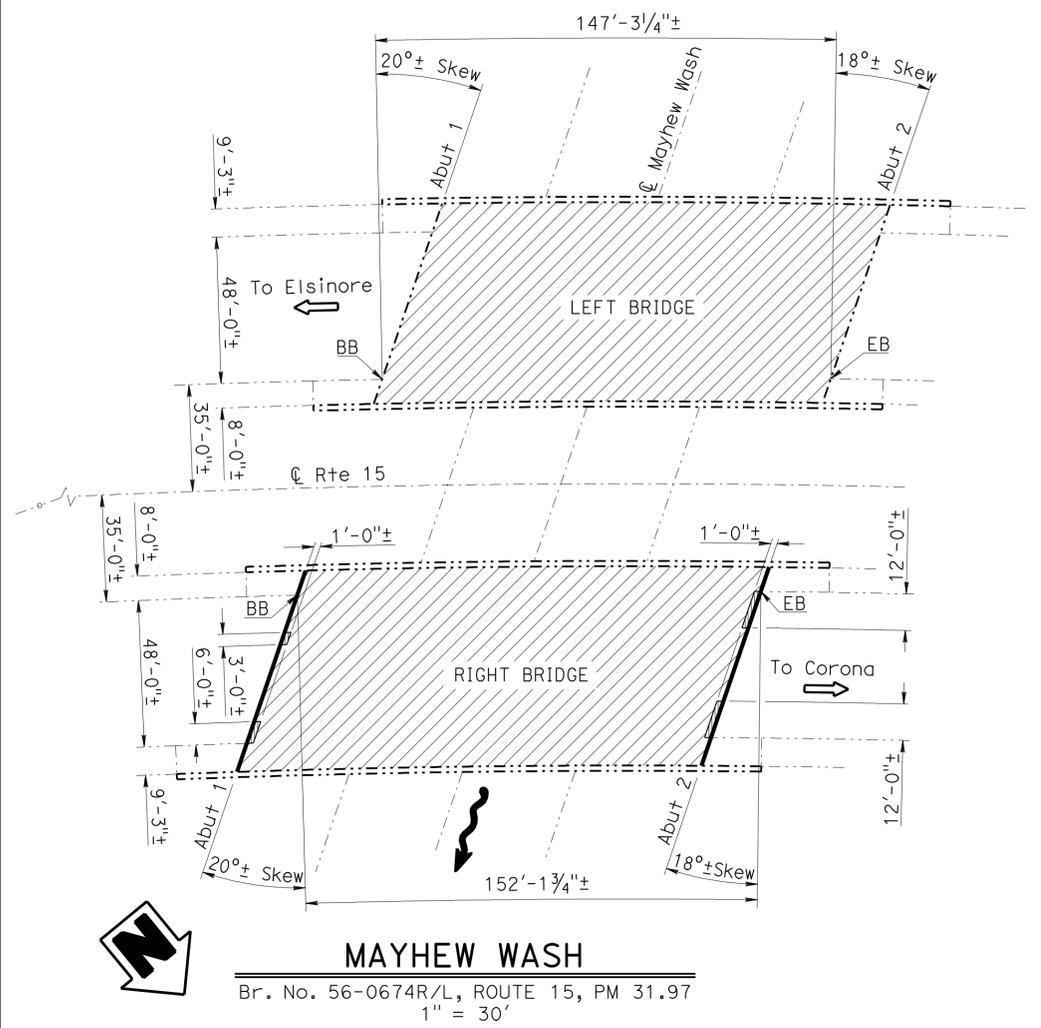
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	41	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

NOTES: (APPLY TO THIS SHEET ONLY)

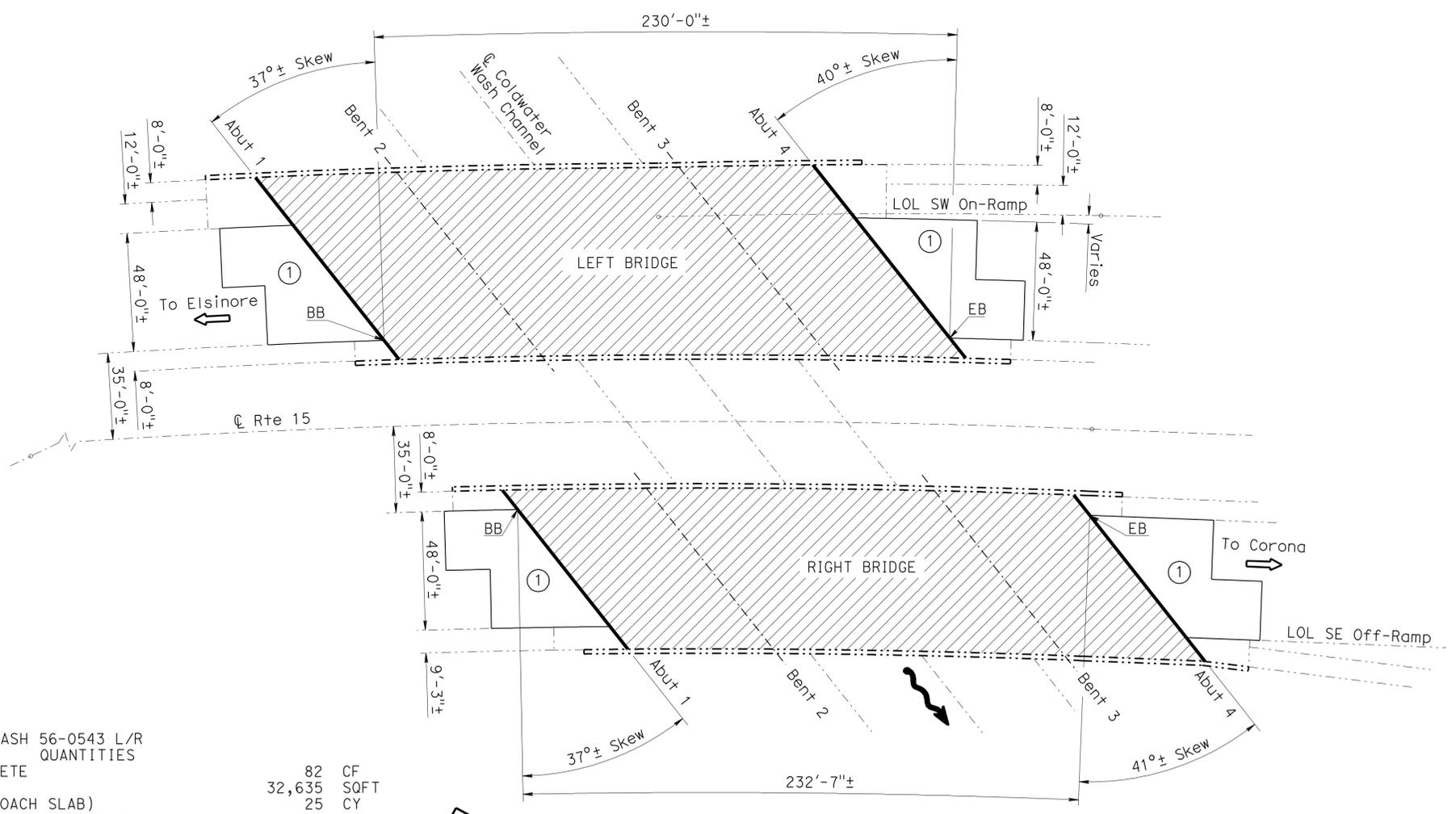
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.
-  Indicates limits of remove unsound concrete and patch with rapid setting concrete to 0'-3"± depth.
-  Indicates location of existing joint seal removal and placement of new joint seal.
- ① Indicates remove and replace approach slabs.



**MAYHEW WASH**  
 Br. No. 56-0674R/L, ROUTE 15, PM 31.97  
 1" = 30'

15 - MAYHEW WASH 56-0674 L/R QUANTITIES

REMOVE UNSOUND CONCRETE	24	CF
CLEAN BRIDGE DECK	19,540	SQFT
CLEAN EXPANSION JOINT	140	LF
RAPID SETTING CONCRETE (PATCH)	24	CF
JOINT SEAL (MR 1")	140	LF
TREAT BRIDGE DECK	19,540	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	217	GAL



**COLDWATER WASH**  
 Br. No. 56-0543R/L, ROUTE 15, PM 32.96  
 1" = 30'

16 - COLDWATER WASH 56-0543 L/R QUANTITIES

REMOVE UNSOUND CONCRETE	82	CF
CLEAN BRIDGE DECK	32,635	SQFT
AGGREGATE BASE (APPROACH SLAB)	25	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	246	CY
CLEAN EXPANSION JOINT	124	LF
RAPID SETTING CONCRETE (PATCH)	82	CF
JOINT SEAL (MR 1")	366	LF
TREAT BRIDGE DECK	32,635	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	363	GAL

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

*Mattie Collee* 11-17-10  
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

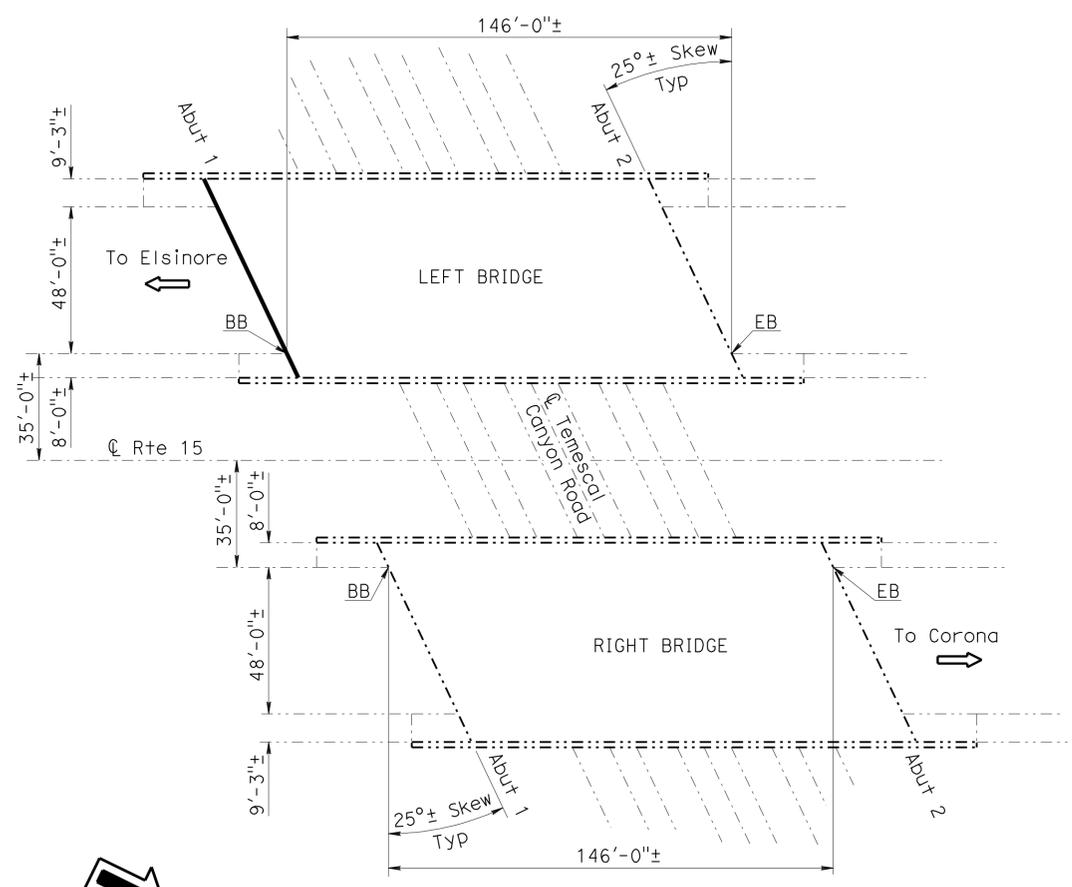
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 15 BRIDGES**  
**GENERAL PLAN NO. 9**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	42	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)

— Indicates location of existing joint seal removal and placement of new joint seal.

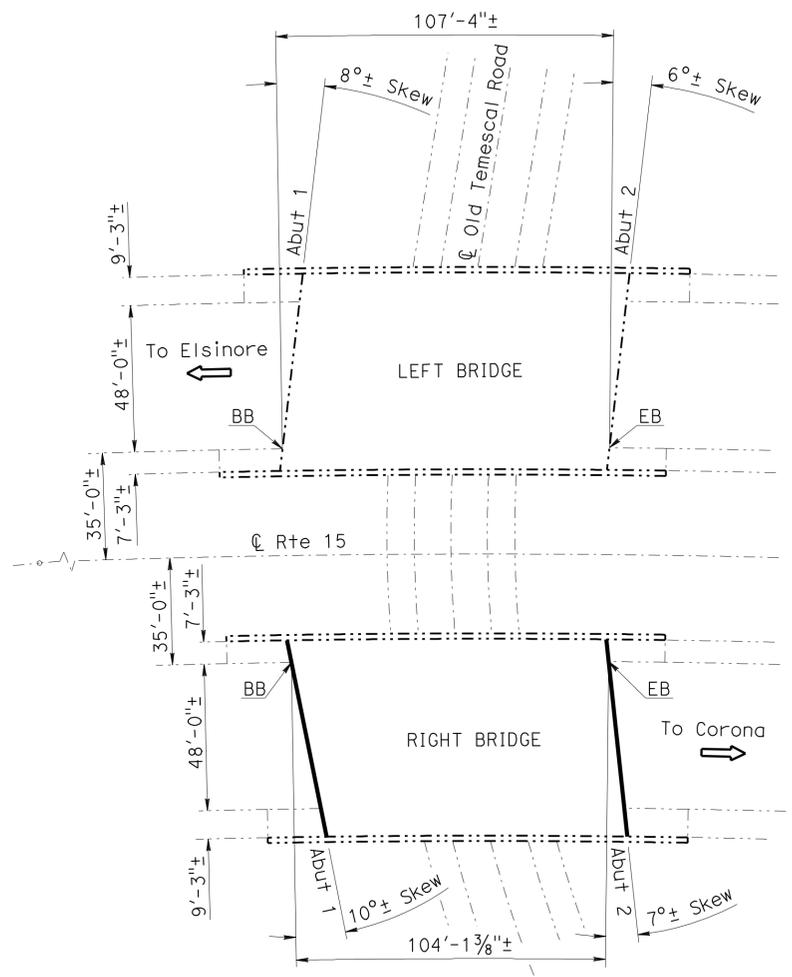


**TEMESCAL CANYON ROAD UNDERCROSSING**

Br. No. 56-0542L, ROUTE 15, PM 33.25  
1" = 30'

17 - TEMESCAL CANYON RD UC 56-0542L	QUANTITIES	74 LF
CLEAN EXPANSION JOINT		74 LF
JOINT SEAL (MR 1")		

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



**OLD TEMESCAL ROAD UNDERCROSSING**

Br. No. 56-0644R, ROUTE 15, PM 39.40  
1" = 30'

18 - OLD TEMESCAL RD UC 56-0644R	QUANTITIES	132 LF
CLEAN EXPANSION JOINT		132 LF
JOINT SEAL (MR 1/2")		

*Mattie Collee* 11-17-10  
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba
DETAILS	BY Dale Kubochi	CHECKED Don Acoba
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba

LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 10

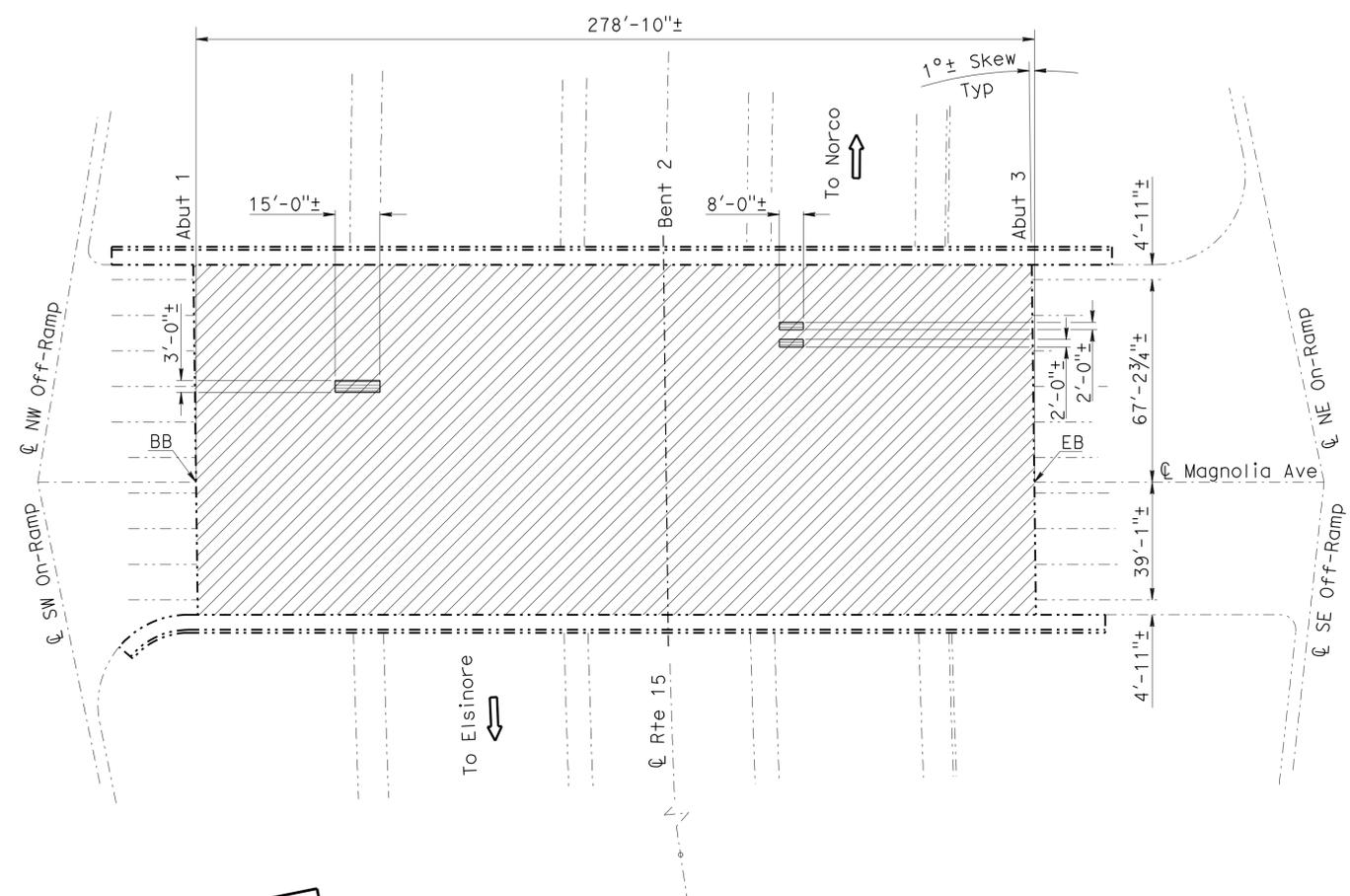
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	43	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

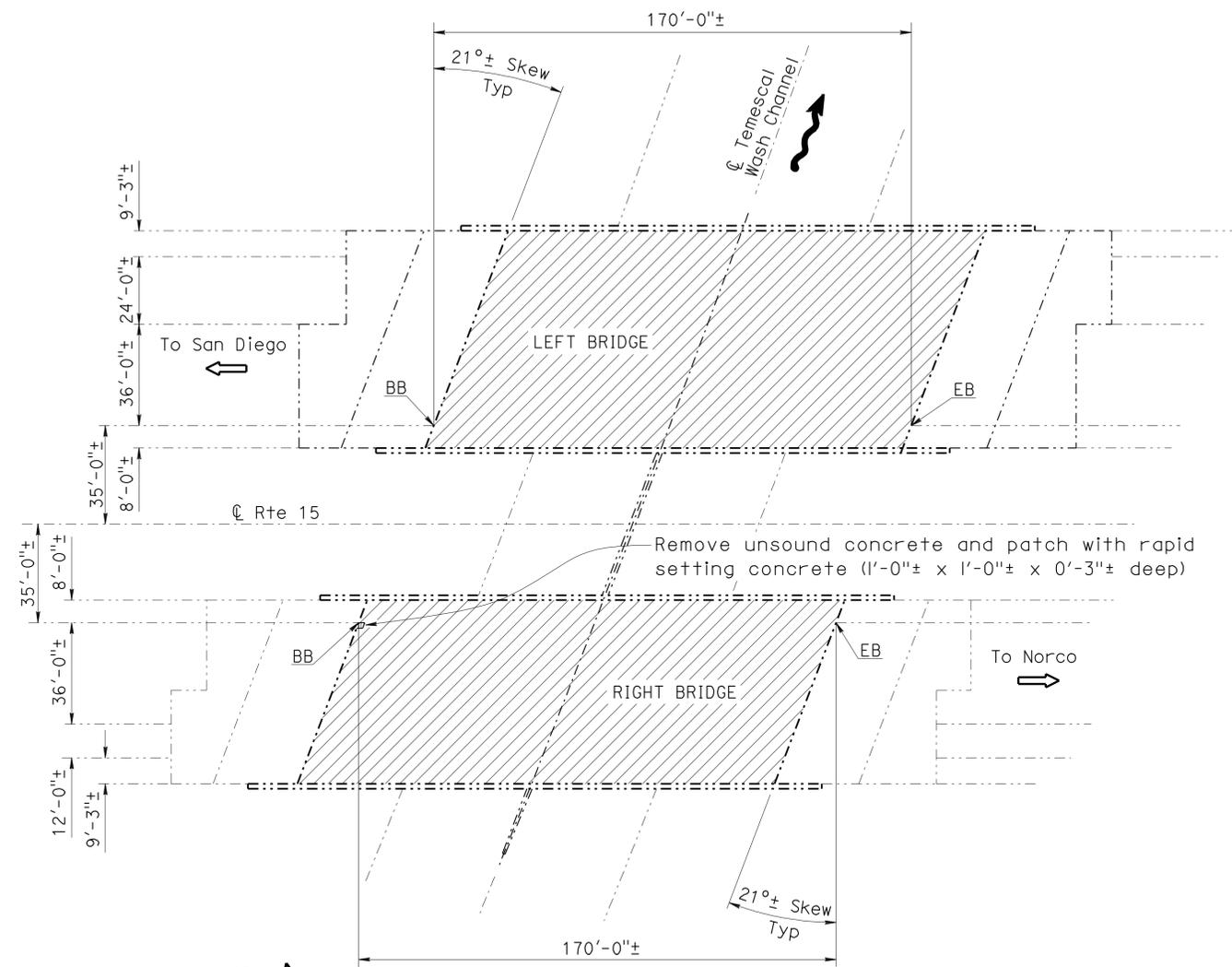
 Indicates limits of remove Chip Seal.



**MAGNOLIA AVENUE OVERCROSSING**  
 Br. No. 56-0497, ROUTE 15, PM 40.35  
 1" = 30'

19 - MAGNOLIA AVE OC 56-0497 QUANTITIES

REMOVE EPOXY CHIP SEAL	77	SQFT
REMOVE UNSOUND CONCRETE	81	CF
CLEAN BRIDGE DECK	32,385	SQFT
RAPID SETTING CONCRETE (PATCH)	81	CF
TREAT BRIDGE DECK	32,385	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	360	GAL



**TEMESCAL WASH**  
 Br. No. 56-0499R/L, ROUTE 15, PM 40.86  
 1" = 30'

20 - TEMESCAL WASH 56-0499 L/R QUANTITIES

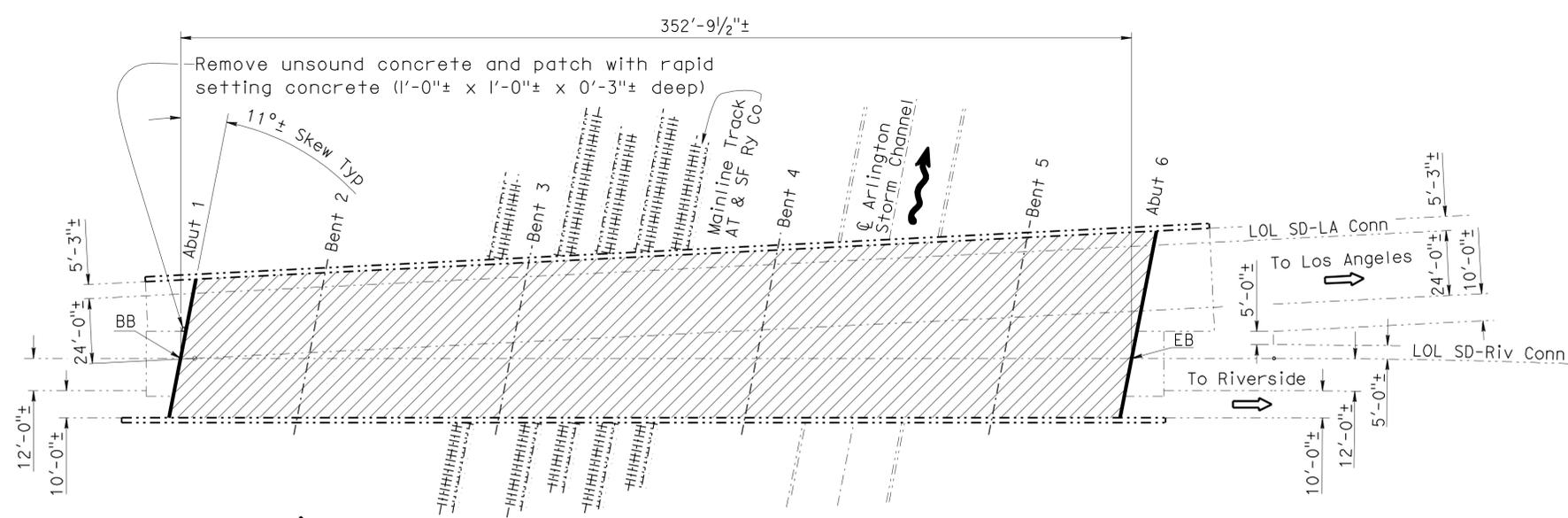
REMOVE UNSOUND CONCRETE	28	CF
CLEAN BRIDGE DECK	24,355	SQFT
RAPID SETTING CONCRETE (PATCH)	28	CF
TREAT BRIDGE DECK	24,355	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	271	GAL

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

 DESIGN ENGINEER	DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 15 BRIDGES GENERAL PLAN NO. 11	
	DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	CHECKED Jennifer Ramirez		POST MILE	VARIES		
	QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba								
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08608 EA 0M6601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-4-10 5-18-10 8-14-10 11-30-10	SHEET 11 OF 24

FILE => 08-0m6601-agg-11.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	44	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**N15-E&W91 CONNECTOR OVERHEAD**

Br. No. 56-0495G, ROUTE 15, PM 41.25  
1" = 30'

21 - N15-E&W91 CONNECTOR OH 56-0495G  
QUANTITIES

REMOVE UNSOUND CONCRETE	54	CF
CLEAN BRIDGE DECK	21,600	SQFT
CLEAN EXPANSION JOINT	126	LF
RAPID SETTING CONCRETE (PATCH)	54	CF
JOINT SEAL (MR 1 1/2")	126	LF
TREAT BRIDGE DECK	21,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	240	GAL

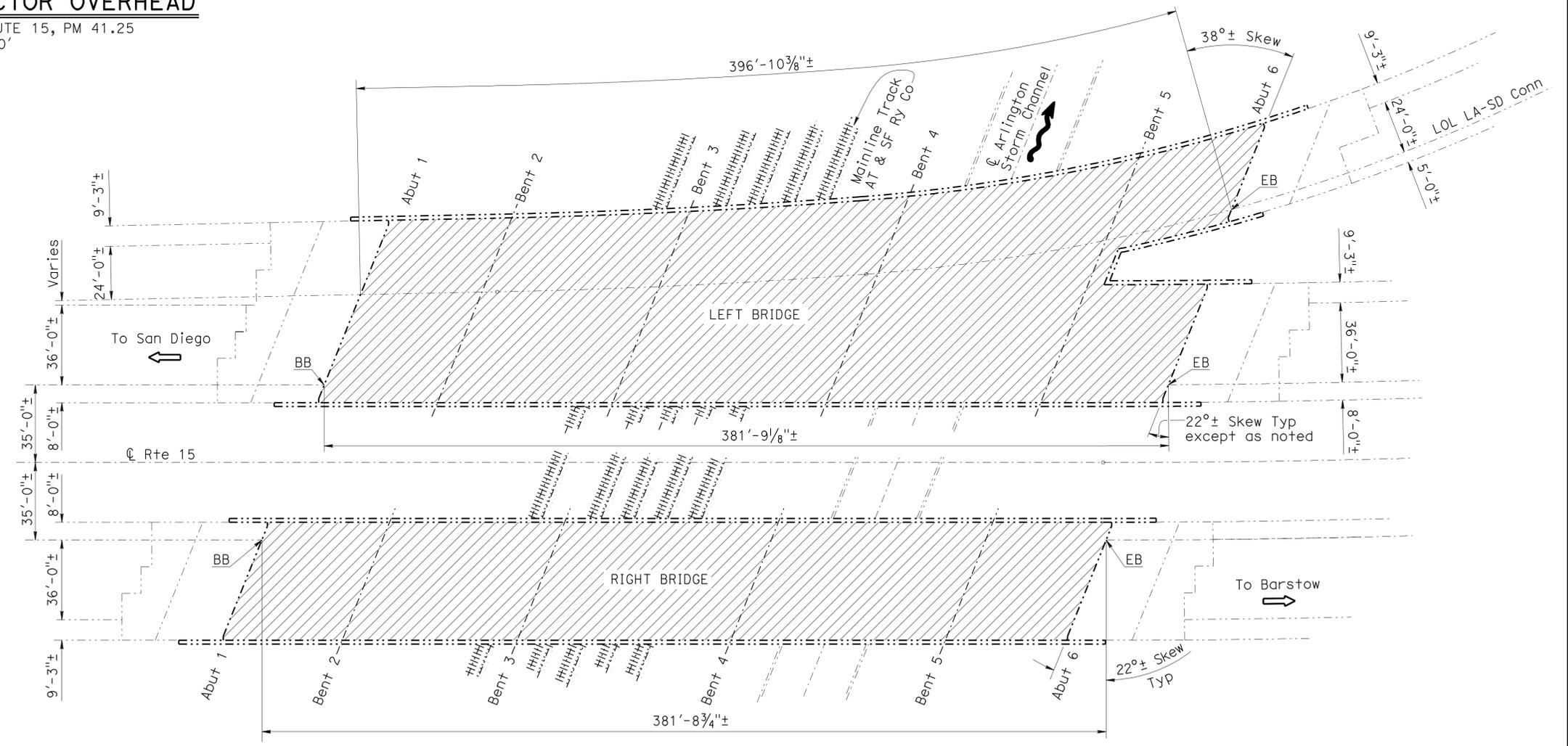
**NOTES:** (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

Indicates location of existing joint seal removal and placement of new joint seal.

22 - EAST CORONA OH 56-0495 L/R  
QUANTITIES

REMOVE UNSOUND CONCRETE	141	CF
CLEAN BRIDGE DECK	56,410	SQFT
RAPID SETTING CONCRETE (PATCH)	141	CF
TREAT BRIDGE DECK	56,410	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	627	GAL



**EAST CORONA OVERHEAD**

Br. No. 56-0495R/L, ROUTE 15, PM 41.25  
1" = 30'

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

*Mattie Collee* 11-17-10  
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

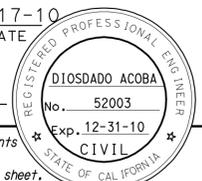
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

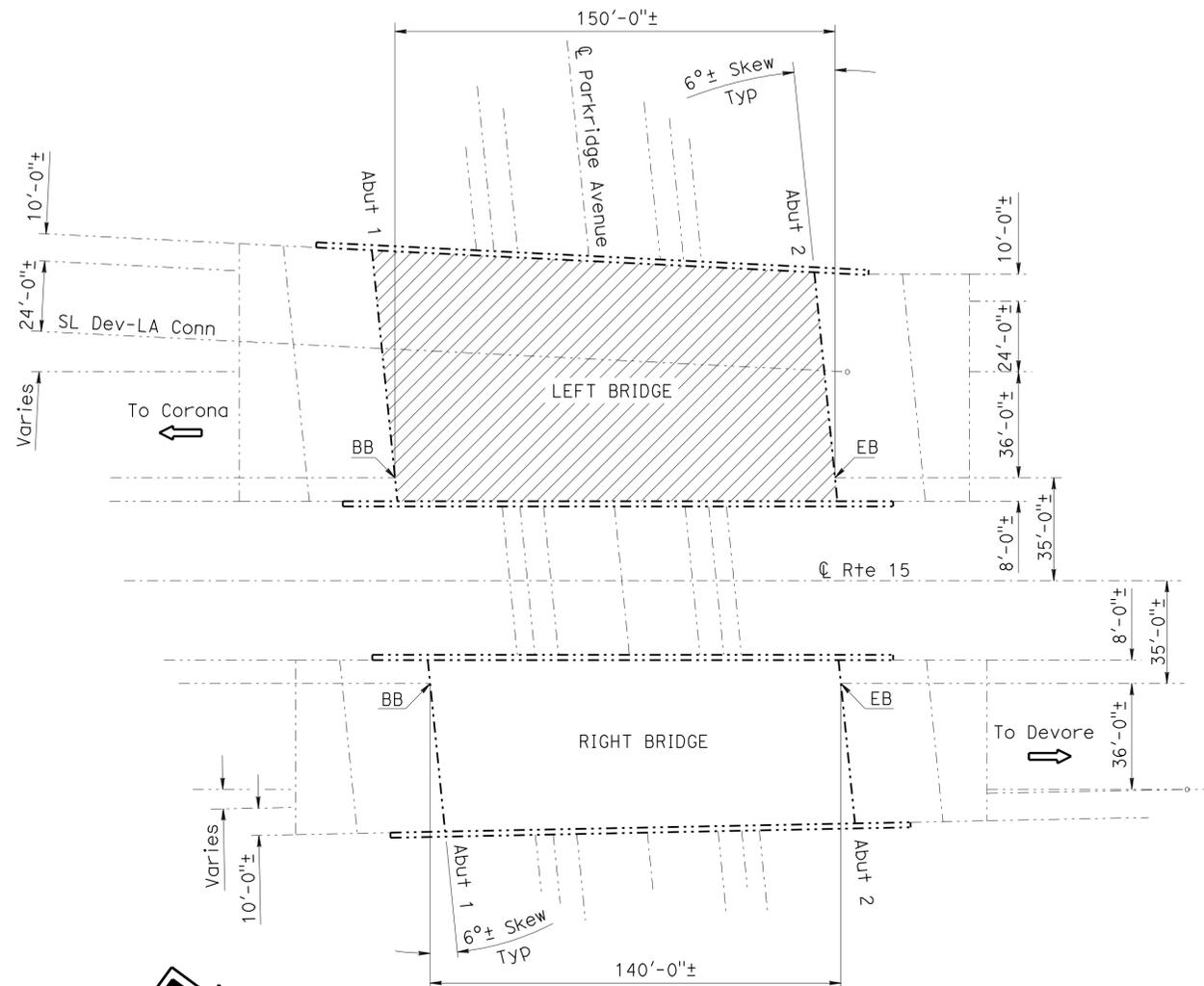
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS	ROUTE 15 BRIDGES GENERAL PLAN NO. 12
POST MILE	VARIES	
VARIES		

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	45	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

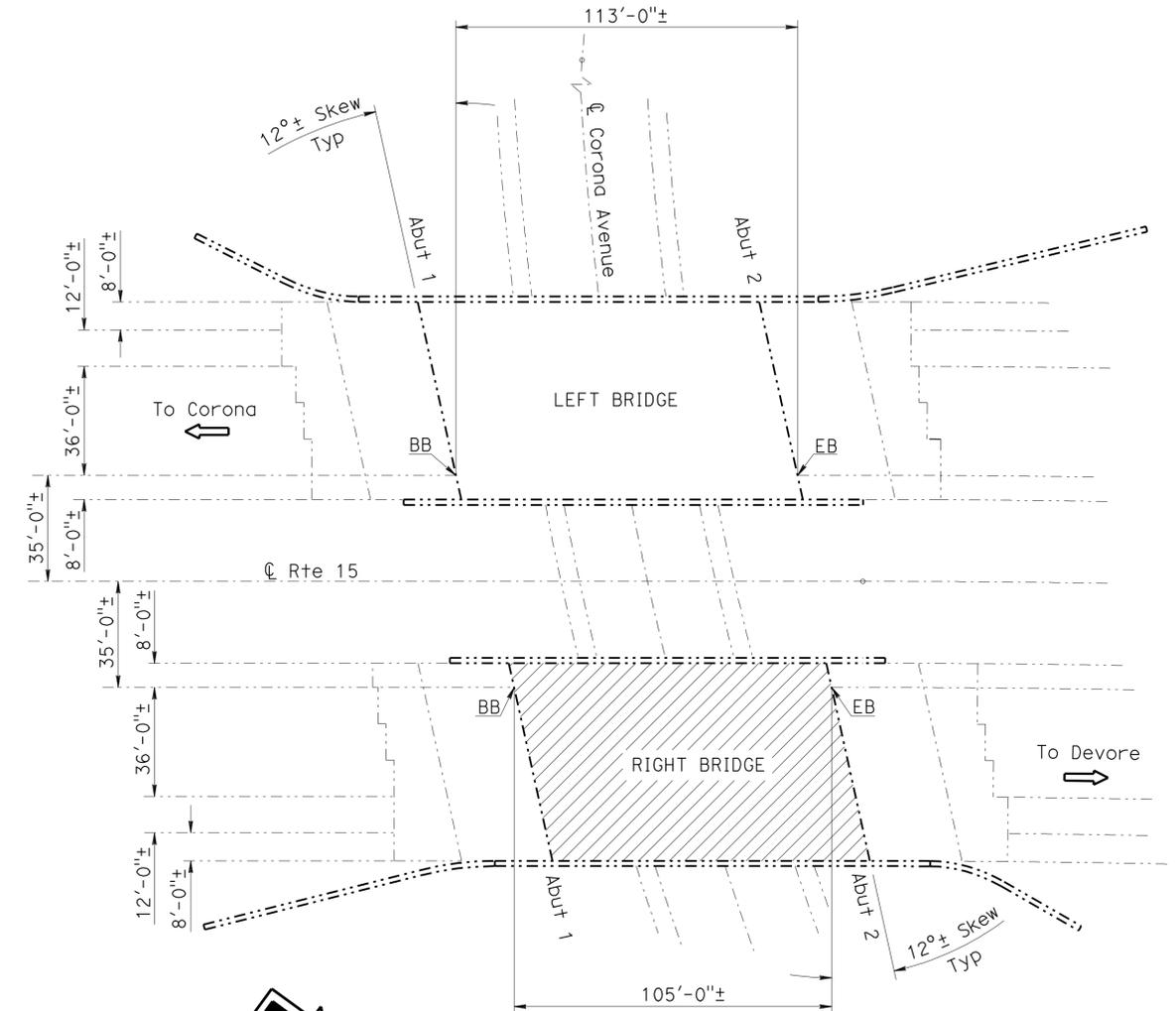


**PARKRIDGE AVENUE UNDERCROSSING**

Br. No. 56-0673L, ROUTE 15, PM 41.82  
1" = 30'

23 - PARKRIDGE AVE UC 56-0673L  
QUANTITIES

REMOVE UNSOUND CONCRETE	31	CF
CLEAN BRIDGE DECK	12,280	SQFT
RAPID SETTING CONCRETE (PATCH)	31	CF
TREAT BRIDGE DECK	12,280	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	137	GAL



**CORONA AVENUE UNDERCROSSING**

Br. No. 56-0697R, ROUTE 15, PM 42.45  
1" = 20'

24 - CORONA AVE UC 56-0697R  
QUANTITIES

REMOVE UNSOUND CONCRETE	17	CF
CLEAN BRIDGE DECK	6,720	SQFT
RAPID SETTING CONCRETE (PATCH)	17	CF
TREAT BRIDGE DECK	6,720	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	75	GAL

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

	DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
	DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
	QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

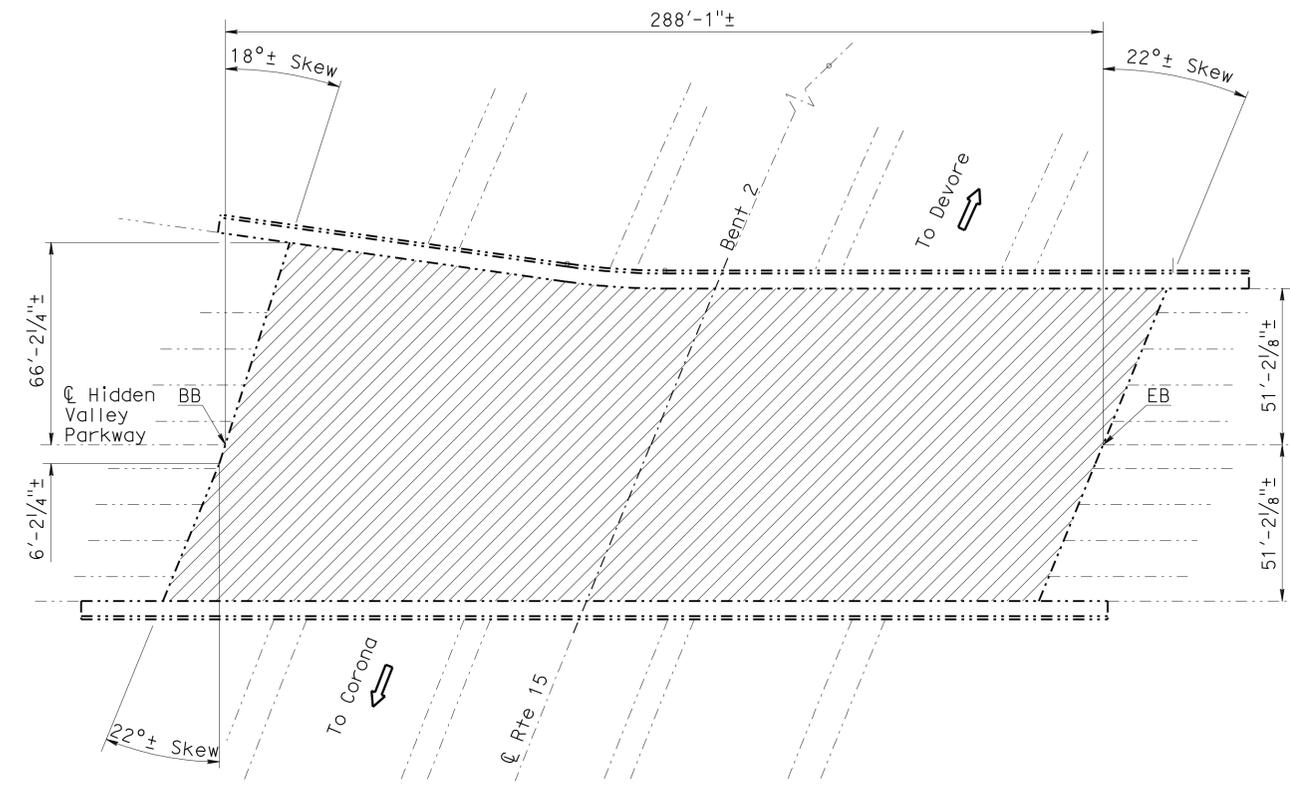
BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	46	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

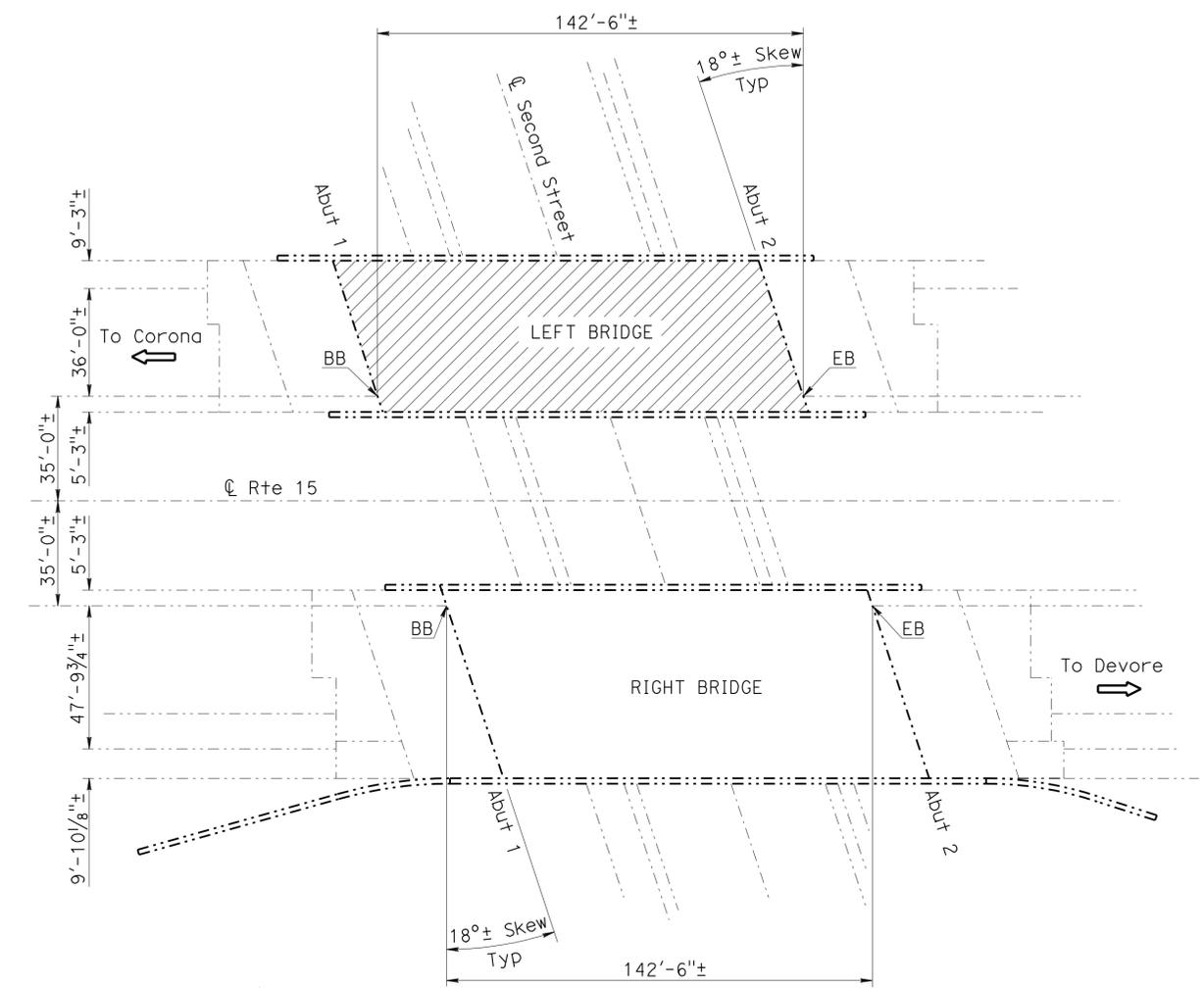


**HIDDEN VALLEY PARKWAY OVERCROSSING**

Br. No. 56-0665, ROUTE 15, PM 42.88  
1" = 30'

25 - HIDDEN VALLEY PARKWAY OC 56-0665  
QUANTITIES

REMOVE UNSOUND CONCRETE	75	CF
CLEAN BRIDGE DECK	30,040	SQFT
RAPID SETTING CONCRETE (PATCH)	75	CF
TREAT BRIDGE DECK	30,040	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	334	GAL



**SECOND STREET UNDERCROSSING**

Br. No. 56-0667L, ROUTE 15, PM 43.64  
1" = 30'

26 - SECOND STREET UC 56-0667L  
QUANTITIES

REMOVE UNSOUND CONCRETE	18	CF
CLEAN BRIDGE DECK	7,200	SQFT
RAPID SETTING CONCRETE (PATCH)	18	CF
TREAT BRIDGE DECK	7,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	80	GAL

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

  
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

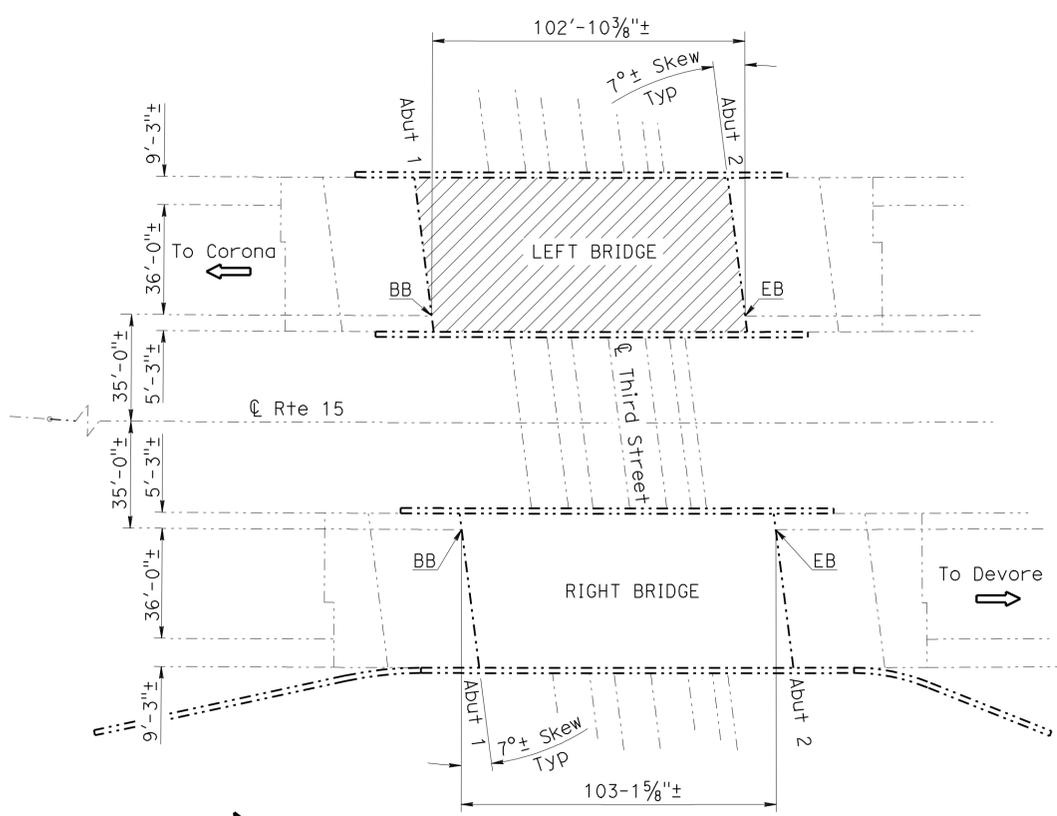
BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	47	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
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NOTES: (APPLY TO THIS SHEET ONLY)

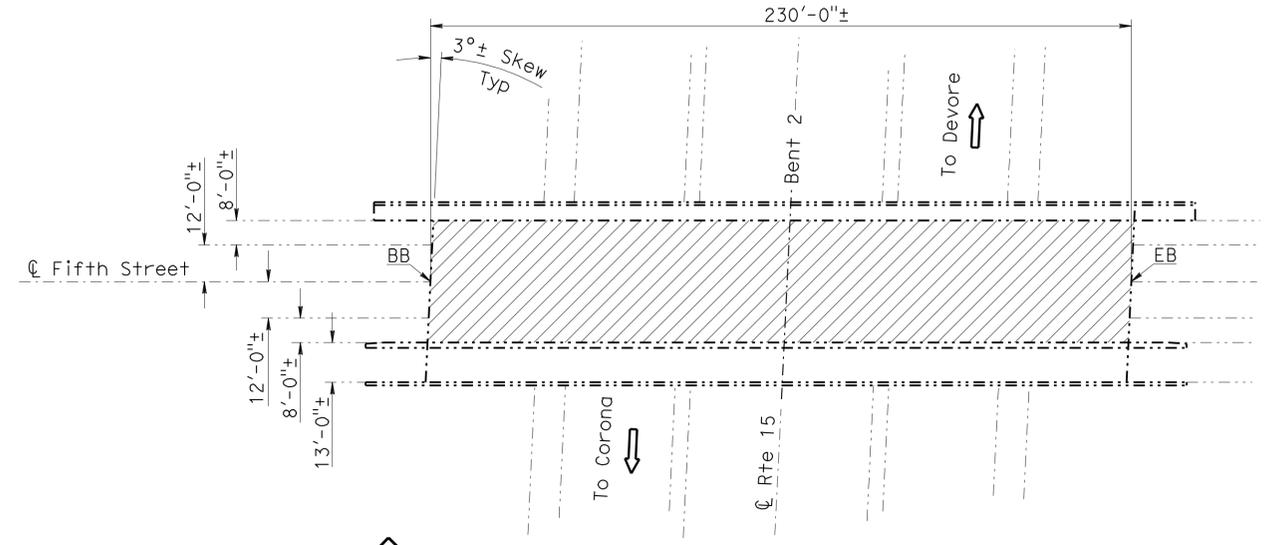
 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.



**THIRD STREET UNDERCROSSING**  
 Br. No. 56-0668L, ROUTE 15, PM 44.12  
 1" = 30'

27 - THIRD STREET UC 56-0668L QUANTITIES

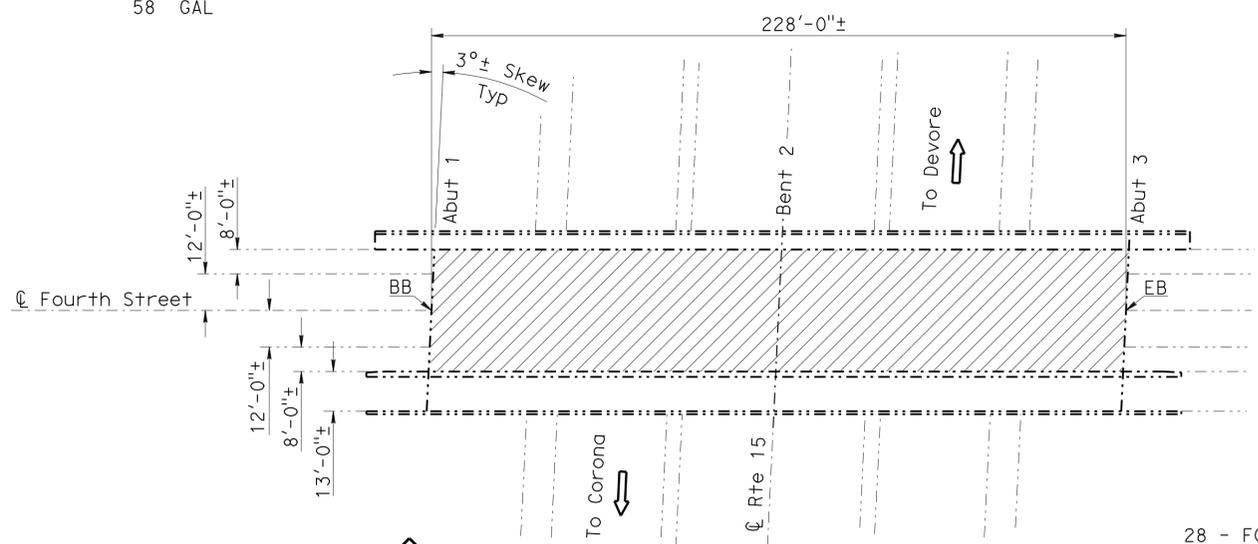
REMOVE UNSOUND CONCRETE	13	CF
CLEAN BRIDGE DECK	5,200	SQFT
RAPID SETTING CONCRETE (PATCH)	13	CF
TREAT BRIDGE DECK	5,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	58	GAL



**FIFTH STREET OVERCROSSING**  
 Br. No. 56-0670, ROUTE 15, PM 45.14  
 1" = 30'

29 - FIFTH STREET OC 56-0670 QUANTITIES

REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,200	SQFT
RAPID SETTING CONCRETE (PATCH)	23	CF
TREAT BRIDGE DECK	9,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	103	GAL



**FOURTH STREET OVERCROSSING**  
 Br. No. 56-0669, ROUTE 15, PM 44.66  
 1" = 30'

28 - FOURTH STREET OC 56-0669 QUANTITIES

REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,120	SQFT
RAPID SETTING CONCRETE (PATCH)	23	CF
TREAT BRIDGE DECK	9,120	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	102	GAL

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

  
 DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

ROUTE 15 BRIDGES  
 GENERAL PLAN NO. 15

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

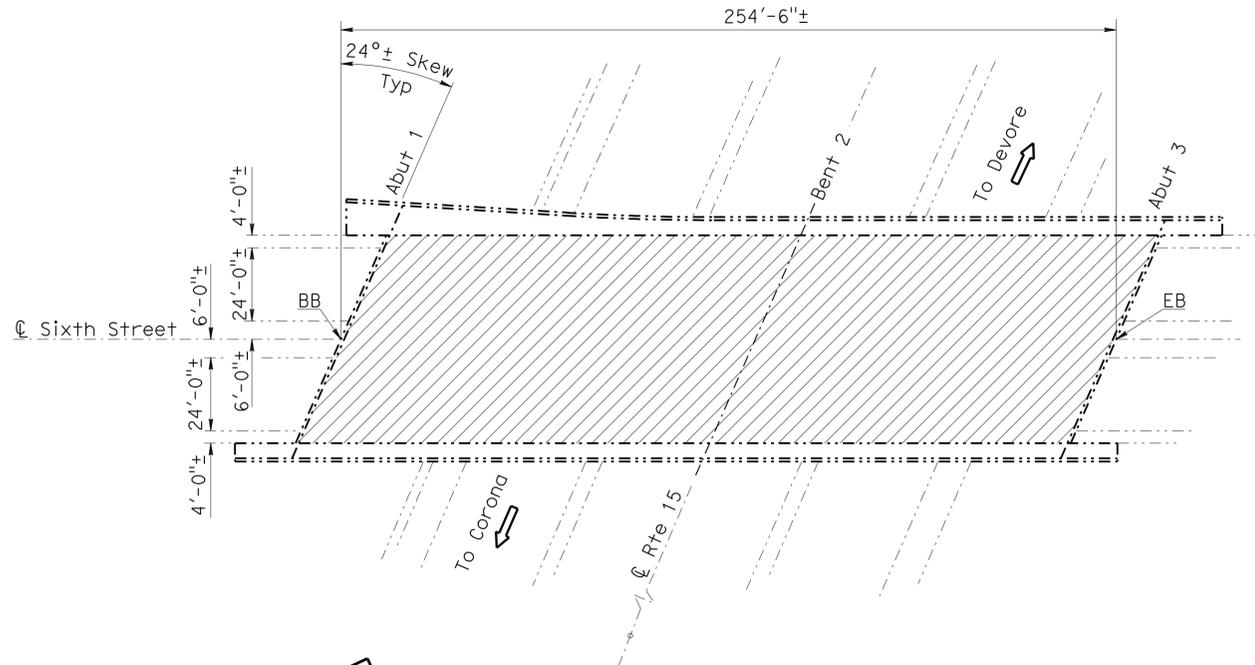
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	48	56

11-17-10  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
DIOSDADO ACOPA  
No. 52003  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

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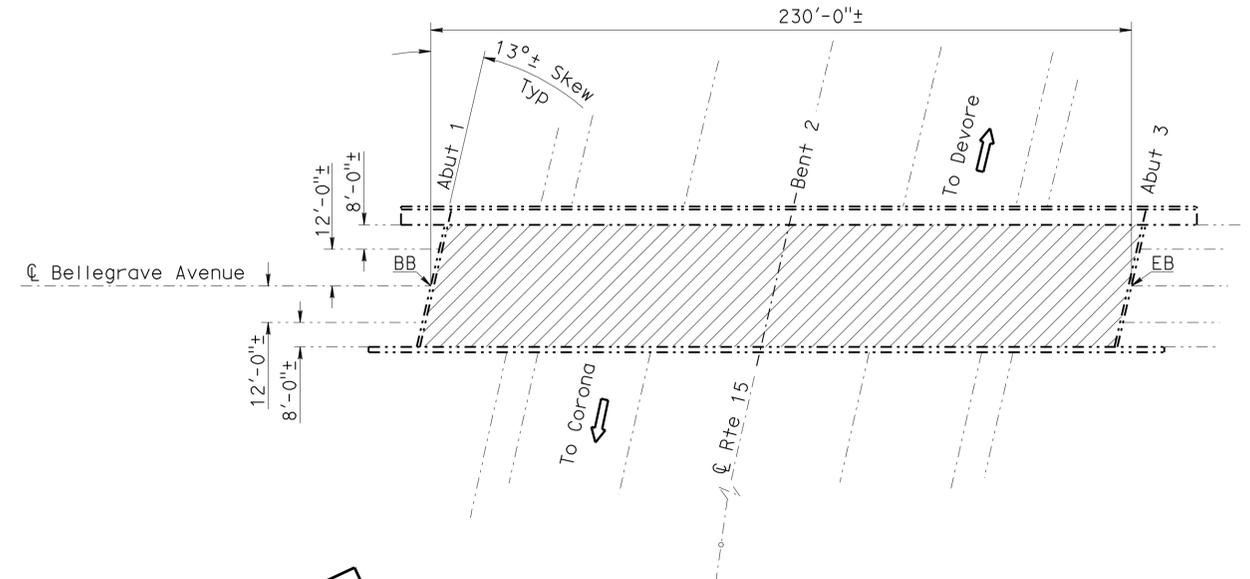


**SIXTH STREET OVERCROSSING**

Br. No. 56-0671, ROUTE 15, PM 45.6  
1" = 30'

30 - SIXTH STREET OC 56-0671  
QUANTITIES

REMOVE UNSOUND CONCRETE	44	CF
CLEAN BRIDGE DECK	17,310	SQFT
RAPID SETTING CONCRETE (PATCH)	44	CF
TREAT BRIDGE DECK	17,310	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	193	GAL

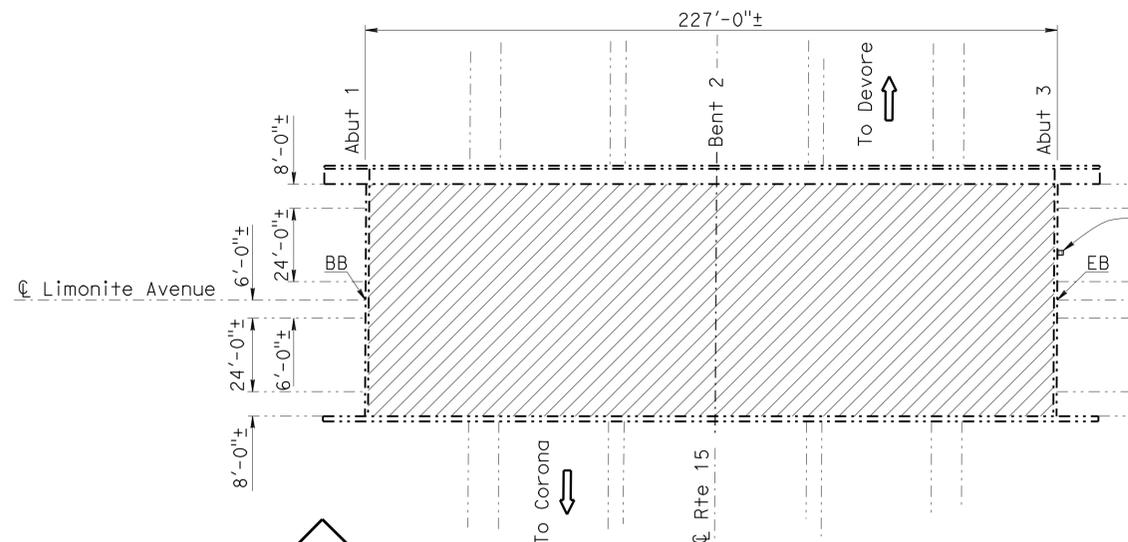


**BELLEGRAVE AVENUE OVERCROSSING**

Br. No. 56-0664, ROUTE 15, PM 49.36  
1" = 30'

32 - BELLEGRAVE AVE OC 56-0664  
QUANTITIES

REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,200	SQFT
RAPID SETTING CONCRETE (PATCH)	23	CF
TREAT BRIDGE DECK	9,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	102	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



**LIMONITE AVENUE OVERCROSSING**

Br. No. 56-0663, ROUTE 15, PM 48.26  
1" = 30'

31 - LIMONITE AVE OC 56-0663  
QUANTITIES

REMOVE UNSOUND CONCRETE	43	CF
CLEAN BRIDGE DECK	17,255	SQFT
RAPID SETTING CONCRETE (PATCH)	43	CF
TREAT BRIDGE DECK	17,255	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	192	GAL

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

  
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	49	56

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	11-17-10
PLANS APPROVAL DATE	
	3-7-11

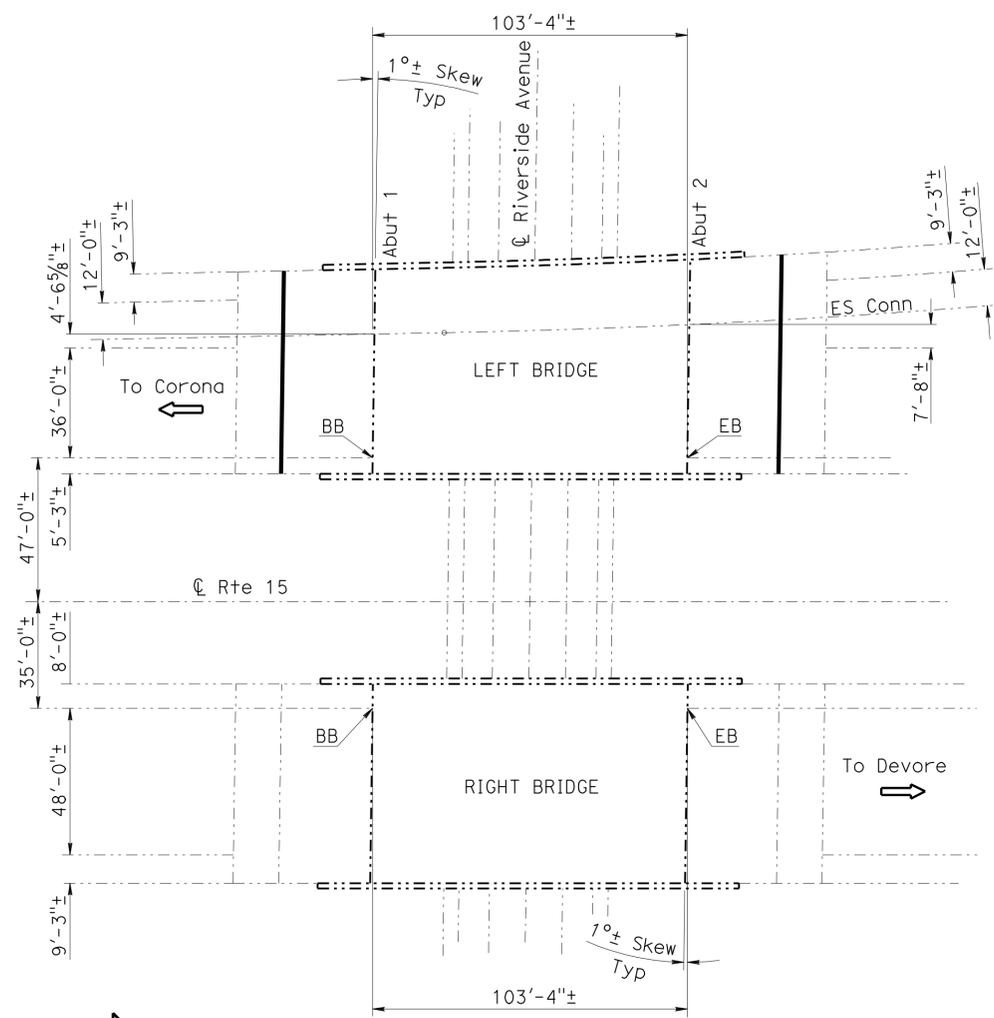
  

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOPA
No. 52003
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

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NOTES: (APPLY TO THIS SHEET ONLY)

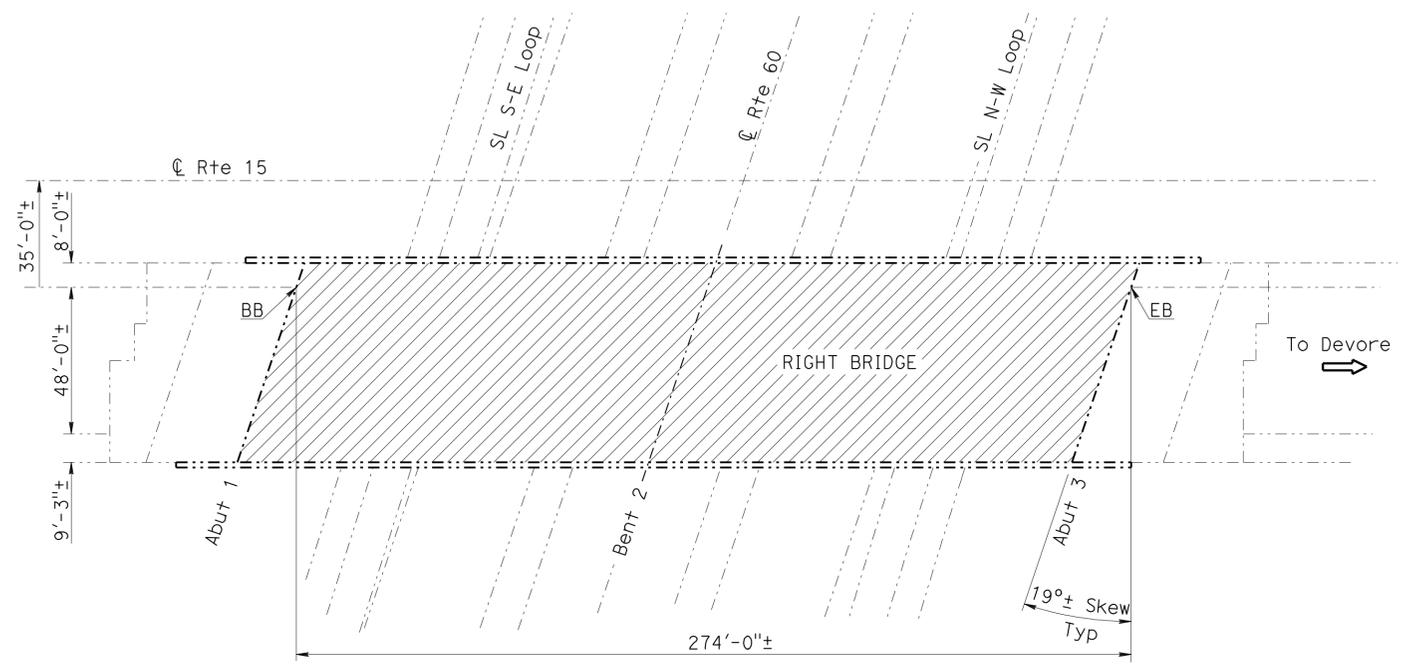
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.
-  Indicates location of existing joint seal removal and placement of new joint seal.



**RIVERSIDE AVENUE UNDERCROSSING**

Br. No. 56-0693L, ROUTE 15, PM 51.26  
1" = 30'

33 - RIVERSIDE AVE UC 56-0693L QUANTITIES	
CLEAN EXPANSION JOINT	138 LF
JOINT SEAL (MR 1")	138 LF



**ROUTE 15/60 SEPARATION**

Br. No. 56-0691R, ROUTE 15, PM 51.45  
1" = 30'

34 - ROUTE 15/60 SEPARATION 56-0691R QUANTITIES	
REMOVE UNSOUND CONCRETE	45 CF
CLEAN BRIDGE DECK	17,980 SQFT
RAPID SETTING CONCRETE (PATCH)	45 CF
TREAT BRIDGE DECK	17,980 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	200 GAL

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

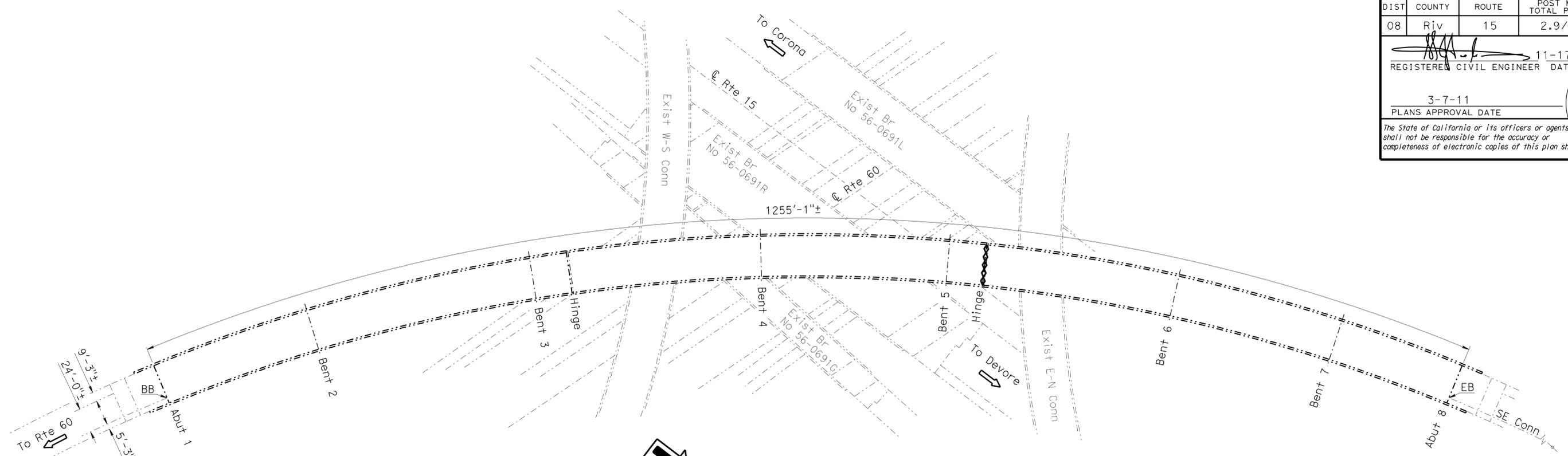
<i>[Signature]</i> DESIGN ENGINEER	DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 15 BRIDGES			
	DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	CHECKED Jennifer Ramirez			VARIOUS	GENERAL PLAN NO. 17			
	QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba						VARIES				

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 08608 EA 0M6601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5-4-10	8-17-10	8-18-10	11-30-10	SHEET 17 OF 24
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FILE => 08-0m6601-agp-17.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	50	56
			REGISTERED CIVIL ENGINEER	DATE	
			11-17-10		
			PLANS APPROVAL DATE		
			3-7-11		
			REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA		
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### S15-E60 CONNECTOR

Br. No. 56-0689F, ROUTE 15, PM 51.46  
1" = 20'



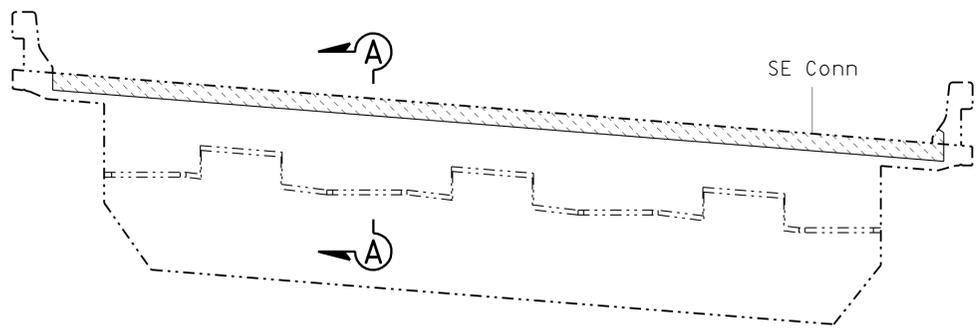
35 - S15-E60 CONNECTOR 56-0689F	QUANTITIES	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION A	STRUCTURAL CONCRETE, BRIDGE	5 CY
JOINT SEAL ASSEMBLY (MR 4 1/2")		40 LF
BAR REINFORCING STEEL (BRIDGE)		328 LB

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove existing concrete and joint seal assembly. Retain existing reinforcing and place new concrete and joint seal assembly.

Indicates location of remove existing joint seal assembly and place new joint seal assembly.

-For "Section A-A", see "JOINT DETAILS NO. 2" sheet.



### ELEVATION AT HINGE (S15-E60 CONNECTOR)

1/4" = 1'-0"

### TEMPORARY DECK PLATE LOAD CRITERIA

MOMENT DEMAND/FOOT (kips-ft/ft)	BOLT SHEAR/FOOT (kips/ft)	BOLT TENSION (kips) / bolt
21.01	16	8

Plate deflection shall not exceed s/12 inches (s = span of plate).  
Maximum anchor bolt spacing = 1'-0".

### GENERAL NOTES LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.  
LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE:  $f_y = 60,000$  psi  
 $f'_c = 4,000$  psi  
 $n = 9$

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

*Matthew Collee*  
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

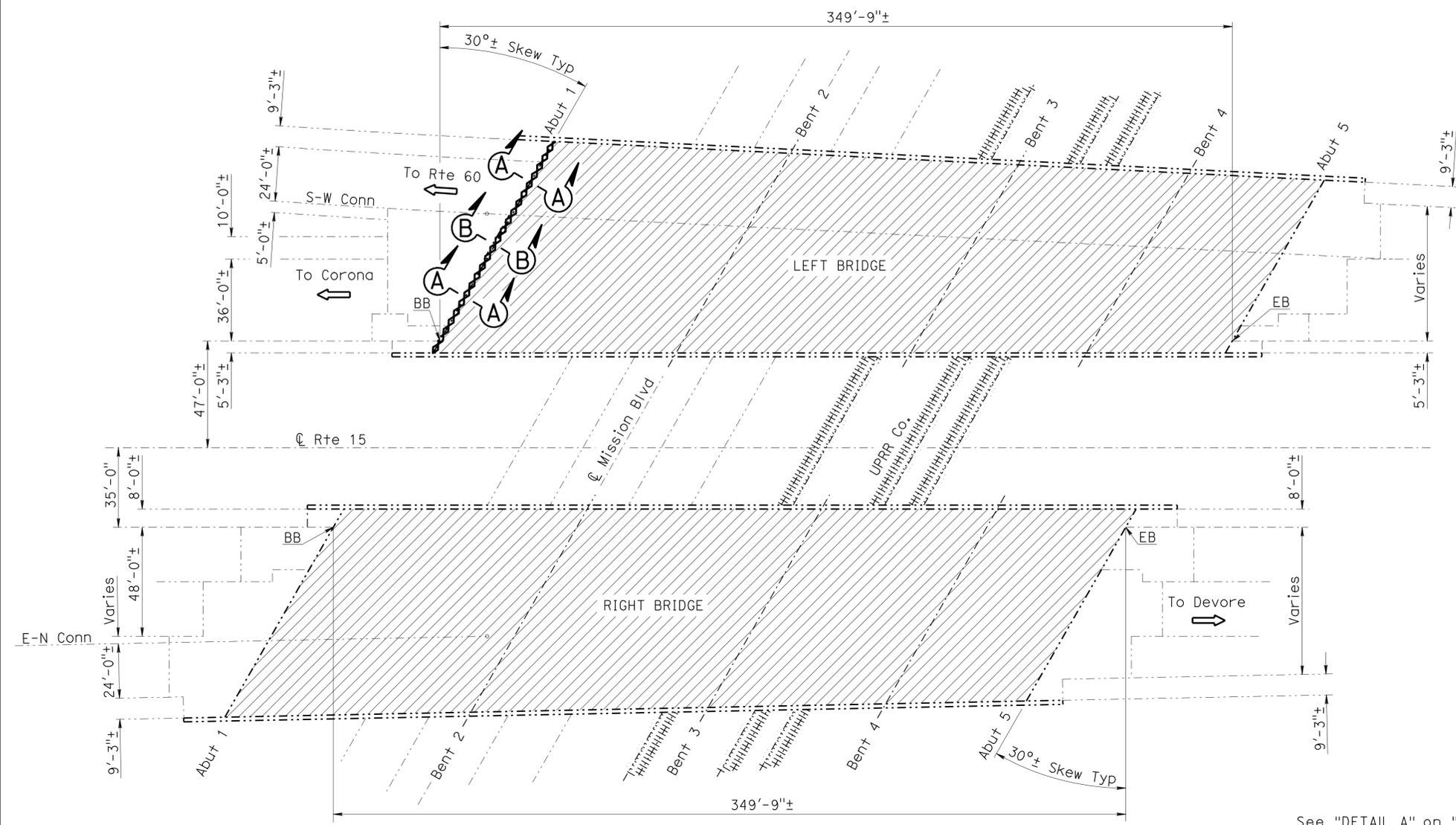
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
GENERAL PLAN NO. 18

USERNAME => HP0115 DATE PLOTTED => 10-MAR-2011 TIME PLOTTED => 08:57

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	51	56
			11-17-10		
			REGISTERED CIVIL ENGINEER DATE		
			3-7-11		
			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA					
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- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.
  - Indicates location of remove existing joint seal assembly and place new joint seal assembly.



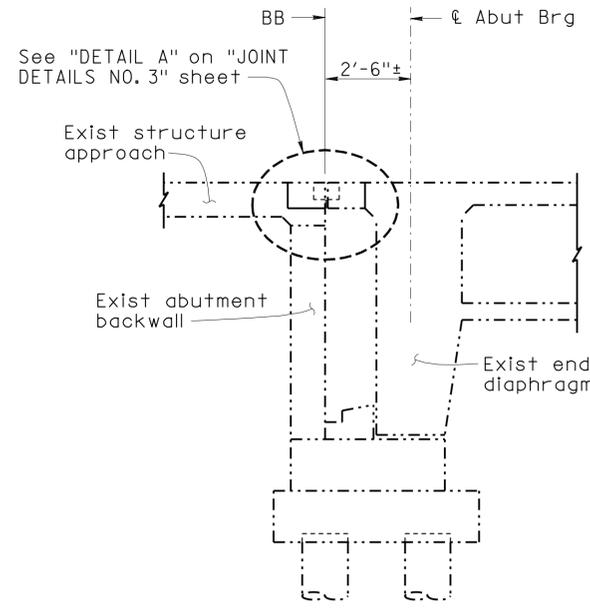
**MISSION BOULEVARD OVERHEAD**

Br. No. 56-0695L/R, ROUTE 15, PM 51.95  
1" = 30'

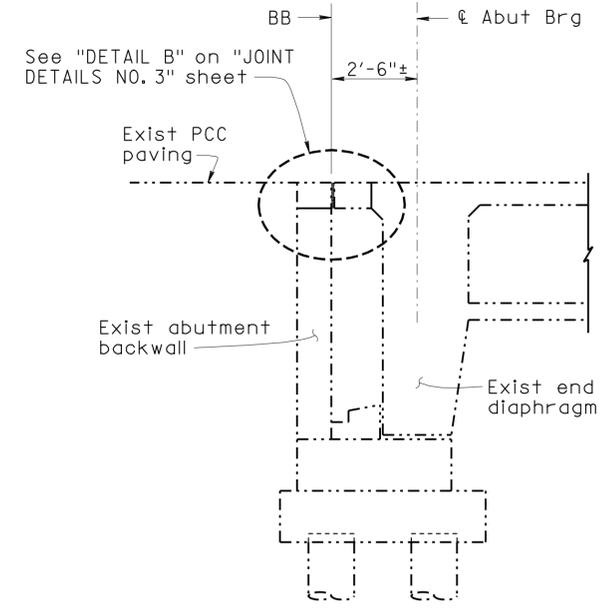
36 - MISSION BLVD OH 56-0695 L/R QUANTITIES

REMOVE UNSOUND CONCRETE	154	CF
CLEAN BRIDGE DECK	61,610	SQFT
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	9	CY
CLEAN EXPANSION JOINT	108	LF
RAPID SETTING CONCRETE (PATCH)	154	CF
JOINT SEAL ASSEMBLY (MR 3")	108	LF
BAR REINFORCING STEEL (BRIDGE)	840	LB
TREAT BRIDGE DECK	61,610	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	685	GAL

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



**SECTION A-A**  
3/8" = 1'-0"



**SECTION B-B**  
3/8" = 1'-0"

*Mattie Lee*  
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Don Acoba	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Don Acoba	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIES  
ROUTE 15 BRIDGES  
GENERAL PLAN NO. 19

# JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
TEMECULA RIVER	56-0047R	Abut 1	BB	1	73.3	NO	12		
OLIVE STREET UNDERCROSSING	56-0719L	Abut 1	BB	1/2	51.5	NO	12		
		Abut 2	EB	1/2	51.5	NO	12	3	6
ROUTE 15/74 SEPARATION	56-0723L	Abut 2	EB	1	67.0	YES	15		
GAVILAN WASH	56-0726R	Abut 1	BW	1/2	70.0	NO	12		
		Abut 2	BW	1/2	69.7	NO	12		
	56-0726L	Abut 1	BW	1/2	70.2	NO	12	3	12
		Abut 2	BW	1/2	69.9	NO	12		
TEMESCAL WASH	56-0680R	Abut 1	BB	1 1/2	81.0	NO	12		
		Abut 2	EB	1 1/2	81.0	NO	12		
INDIAN WASH	56-0677R	Abut 1	BB	1	71.1	NO	12		
		Abut 2	EB	1	70.4	NO	12		
INDIAN TRUCK TRAIL UNDERCROSSING	56-0676L	Abut 1	BB	1	69.5	NO	12		
		Abut 2	EB	1	69.0	NO	12	3	36
MAYHEW WASH	56-0674R	Abut 1	BB	1	70.0	NO	12	3	12
		Abut 2	EB	1	70.0	NO	12	3	12
COLDWATER WASH	56-0543R	Abut 1	BB	1	82.8	NO	12		
		Abut 4	EB	1	86.6	NO	12		
	56-0543L	Abut 1	BB	1	82.8	NO	12		
		Abut 4	EB	1	86.6	NO	12		
TEMESCAL CANYON ROAD UNDERCROSSING	56-0542L	Abut 1	BB	1	72.8	NO	12		
OLD TEMESCAL ROAD UNDERCROSSING	56-0644R	Abut 1	BB	1/2	66.1	NO	12		
		Abut 2	EB	1/2	65.5	NO	12		
N15-E&W91 CONNECTOR OVERHEAD	56-0495G	Abut 1	BB	1 1/2	52.8	NO	12	3	12
		Abut 6	EB	1 1/2	70.9	NO	12		
RIVERSIDE AVENUE UNDERCROSSING	56-0693L	Abut 1	BB	1	67.6	NO	14		
		Abut 2	EB	1	70.7	NO	14		
S15-E60 CONNECTOR	56-0689F	Hinge near Bent 5	H	4 1/2	39.0	YES	14		

**LEGEND:**

- BB - Paving Notch at beginning of bridge
- EB - Paving Notch at end of bridge
- BW - Abutment backwall joint
- H - Hinge joint

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	52	56

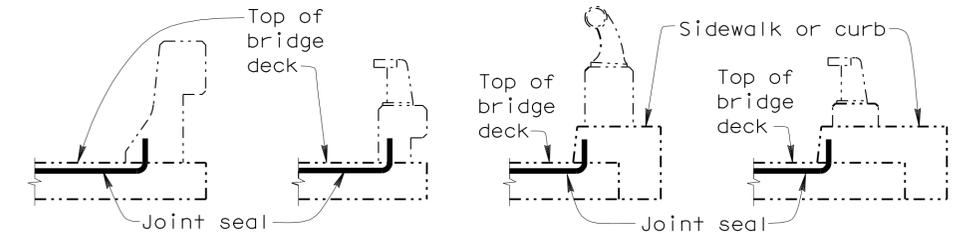
11-17-10  
REGISTERED CIVIL ENGINEER DATE

3-7-11  
PLANS APPROVAL DATE

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The following notes apply to JOINT SEAL TYPE B:

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- 3) W1 shall be the smaller of the values determined as follows:
  - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
  - B) The width of the seal on the third successive test cycle of the pressure deflection test; when compressed to an average pressure of 3 psi.
- 4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- 5) For details not shown, see RSP B6-21

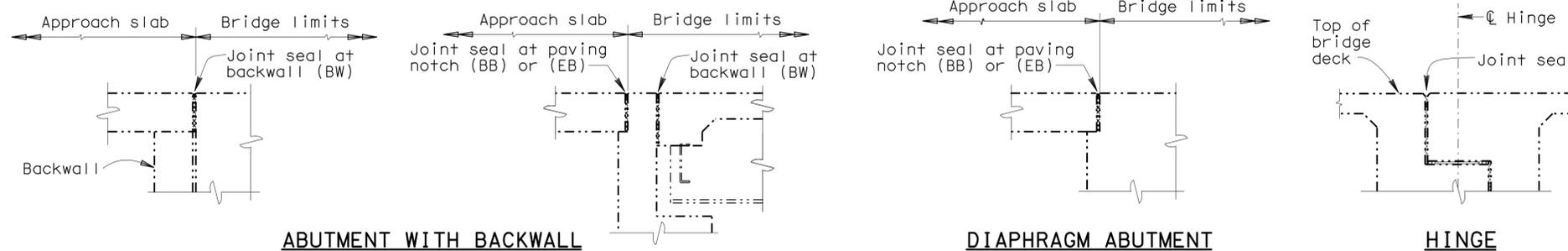


**BARRIER RAIL**

**SIDEWALK OR CURB**

## JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.



**ABUTMENT WITH BACKWALL**

**DIAPHRAGM ABUTMENT**

**HINGE**

## JOINT SEAL LOCATION

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

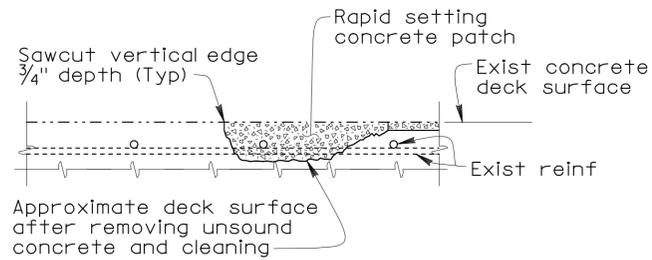
NO SCALE

DESIGN BY M. Hashimoto CHECKED Don Acoba DETAILS BY Dale Kubochi CHECKED Don Acoba QUANTITIES BY M. Hashimoto CHECKED Don Acoba	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 15 BRIDGES</b>	
			VARIOUS	<b>JOINT SEAL DETAILS NO. 1</b>	
			VARIES		
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 08608 EA 0M6601
			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES: 2-24-10, 5-1-10, 2-2-10, 8-12-10
			SHEET	OF	20 24

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
TEMECULA RIVER	56-0047R	1	3
	56-0047L	1	3
ROUTE 15/79 SEPARATION	56-0653R	1	3
	56-0653L	1	3
RANCHO CALIFORNIA ROAD OVERCROSSING	56-0655	1	3
SANTA GERTRUDIS CREEK	56-0271S	1	3
CLINTON KEITH ROAD OVERCROSSING	56-0721	1	3
BUNDY CANYON ROAD UNDERCROSSING	56-0717L	1	3
OLIVE STREET UNDERCROSSING	56-0719R	1	3
	56-0719L	1	3
SAN JACINTO RIVER	56-0728L	1	3
WASSON CANYON WASH	56-0739R	1	3
	56-0739L	1	3
ROUTE 15/74 SEPARATION	56-0723L	1	3
TEMESCAL WASH	56-0680R	1	3
	56-0680L	1	3
MAYHEW WASH	56-0674R	1	3
	56-0674L	1	3
COLDWATER WASH	56-0543R	1	3
	56-0543L	1	3
MAGNOLIA AVENUE OVERCROSSING	56-0497	1	3
TEMESCAL WASH	56-0499R	1	3
	56-0499L	1	3
N15-E&W91 CONNECTOR OVERHEAD	56-0495G	1	3
EAST CORONA OVERHEAD	56-0495R	1	3
	56-0495L	1	3
PARKRIDGE AVENUE UNDERCROSSING	56-0673L	1	3
CORONA AVENUE UNDERCROSSING	56-0697R	1	3
HIDDEN VALLEY PARKWAY OVERCROSSING	56-0665	1	3
SECOND STREET UNDERCROSSING	56-0667L	1	3
THIRD STREET UNDERCROSSING	56-0668L	1	3
FOURTH STREET OVERCROSSING	56-0669	1	3
FIFTH STREET OVERCROSSING	56-0667	1	3
SIXTH STREET OVERCROSSING	56-0671	1	3
LIMONITE AVENUE OVERCROSSING	56-0663	1	3
BELLEGRAVE AVENUE OVERCROSSING	56-0664	1	3
ROUTE 15/60 SEPARATION	56-0691R	1	3
S15-E60 CONNECTOR OVERCROSSING	56-0689F	1	3
	56-0695R	1	3
MISSION BOULEVARD OVERHEAD	56-0695L	1	3

Locations to be determined by the Engineer. For details see "DECK REPAIR DETAIL".

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



### DECK REPAIR DETAIL

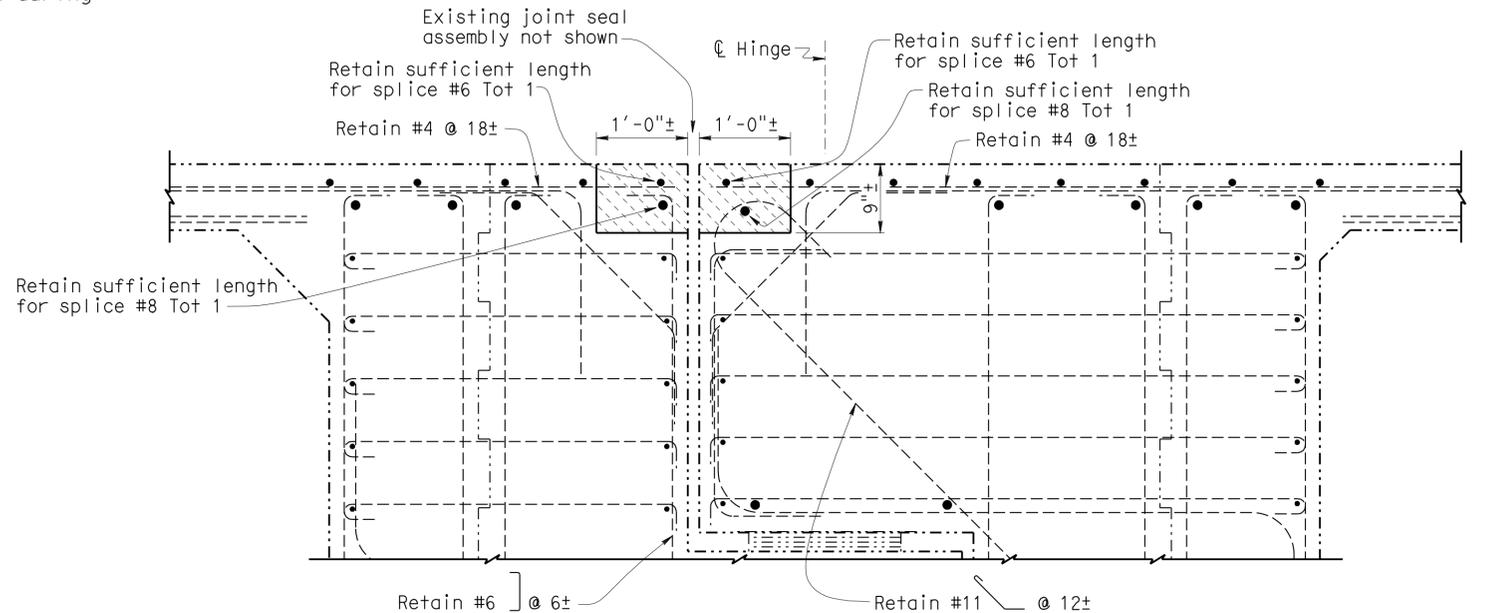
Note: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.

NOTES: (APPLY TO THIS SHEET ONLY)

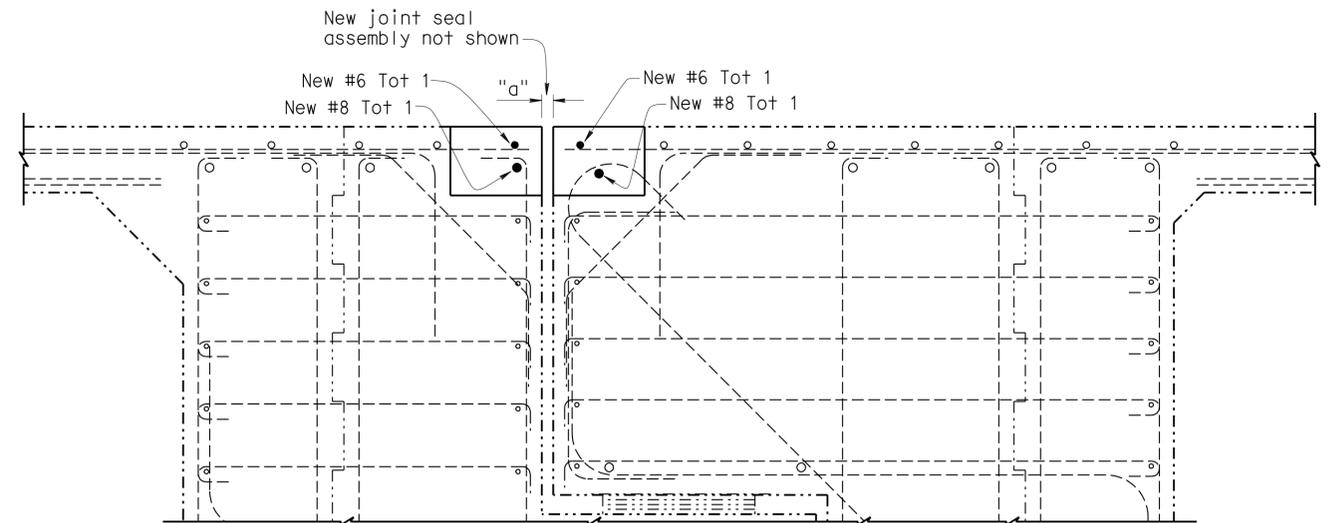
Indicates limits of remove existing concrete and joint seal assembly. Retain existing reinforcing steel.

"d" Reconstructed gap width as determined by the Engineer.

- For additional details, see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")" sheet.



### EXISTING



### RECONSTRUCTION

### SECTION A-A

1" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	53	56
			11-17-10		
			REGISTERED CIVIL ENGINEER DATE		
			3-7-11		
			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA					
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DESIGN	BY M. Hashimoto	CHECKED Don Acoba
DETAILS	BY Dale Kubochi	CHECKED Don Acoba
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIES

ROUTE 15 BRIDGES  
JOINT SEAL DETAILS NO. 2

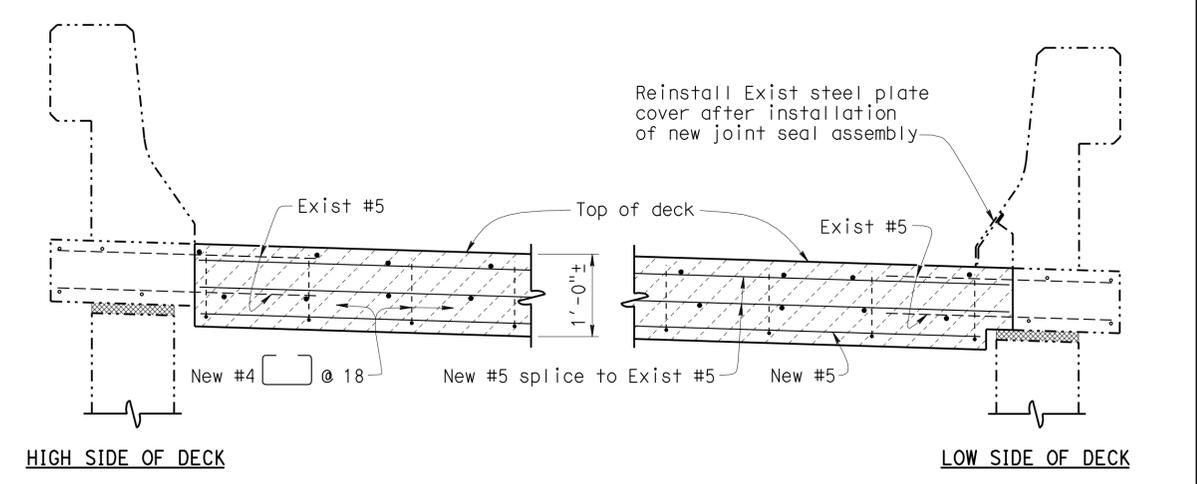
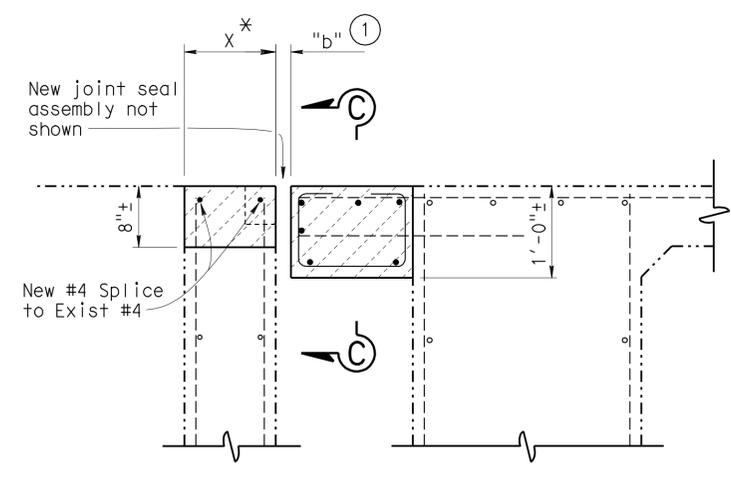
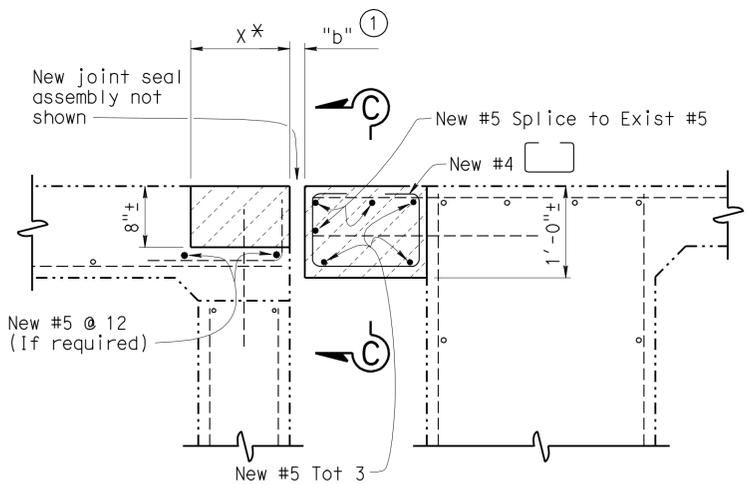
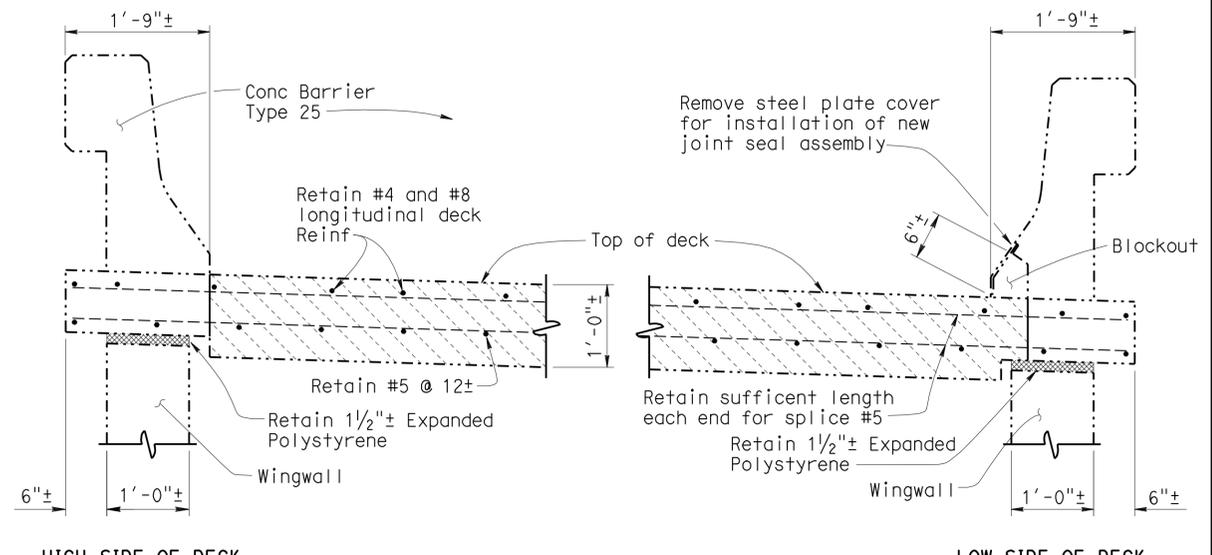
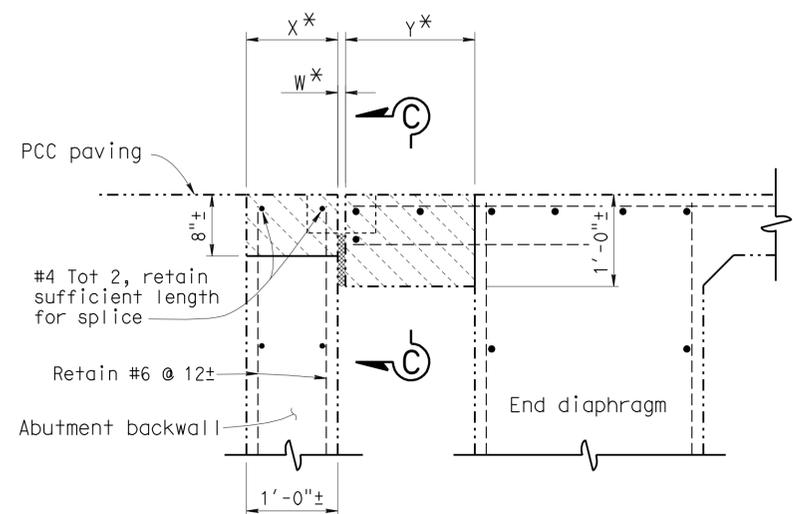
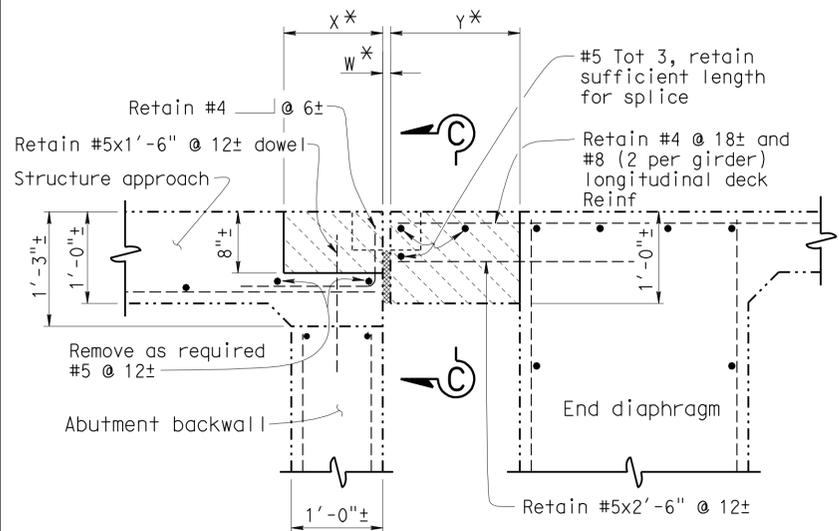
JOINT SEAL TABLE									
BRIDGE NUMBER	LOCATION	MINIMUM "MR" (in)	Skew	APPROX LENGTH (Ft)	EXISTING JOINT OPENING		BLOCKOUT (in)		EXISTING WATERSTOP
					W (in)	TEMP (°f)	X	Y	
56-0695L	Abut 1 (Ramp)	3	27°±	37.76±	2½	68	14±	17±	No
	Abut 1 (Gore)	3	30°±	22.46±	2½	68	12±	17±	No
	Abut 1 (Main)	3	30°±	47.63±	2½	68	14±	17±	No

NOTES: (Notes apply to this sheet only)

-  Indicates limits of remove existing PCC and joint seal assembly.
-  Indicates limits of place new PCC and steel joint seal assembly.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	54	56

REGISTERED CIVIL ENGINEER DATE 11-17-10  
 REGISTERED CIVIL ENGINEER No. 52003 Exp. 12-31-10  
 PLANS APPROVAL DATE 3-7-11  
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RECONSTRUCTION  
**DETAIL A**  
 1" = 1'-0"

RECONSTRUCTION  
**DETAIL B**  
 1" = 1'-0"

RECONSTRUCTION  
**SECTION C-C**  
 ¾" = 1'-0"

- Notes:
- ① New joint width "b" varies with temperature, to be determined by the Engineer.
  - For details not noted in "Detail B", see "Detail A".
  - \* -See "JOINT SEAL TABLE" for dimension.

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

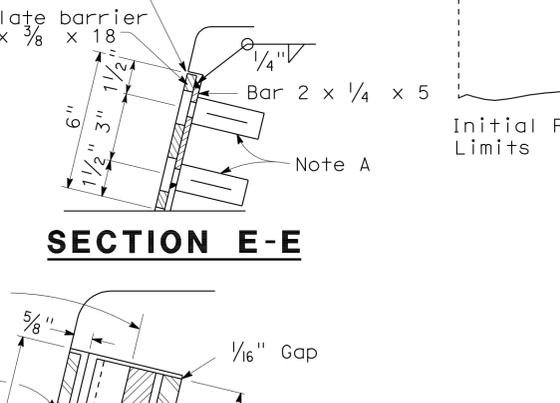
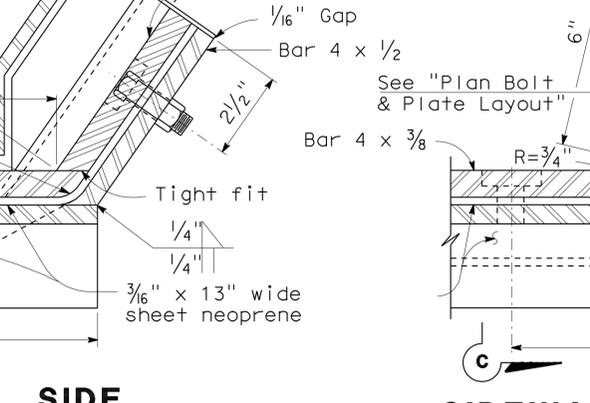
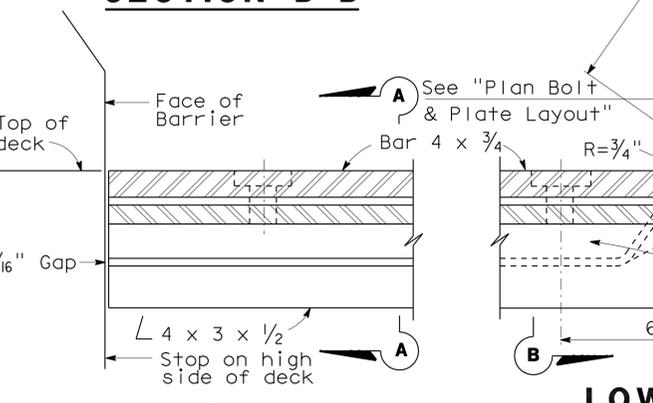
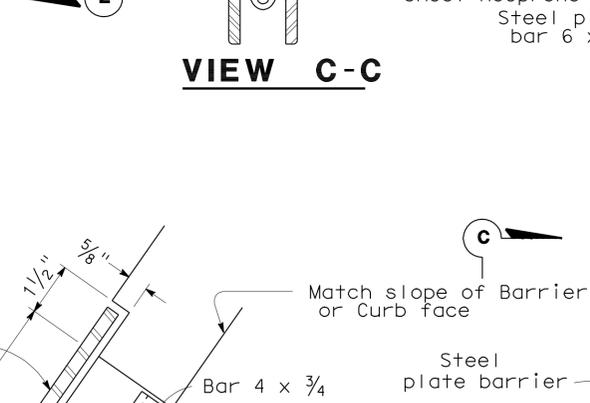
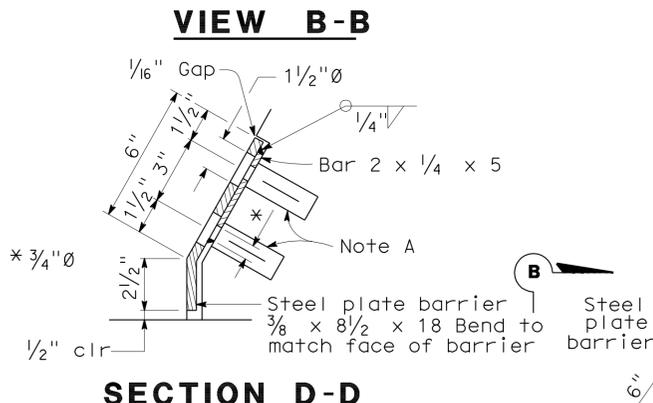
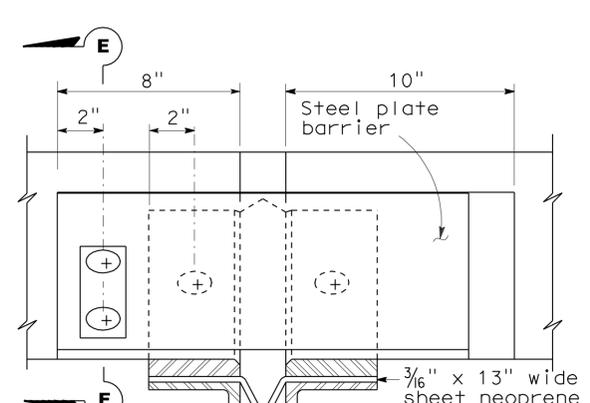
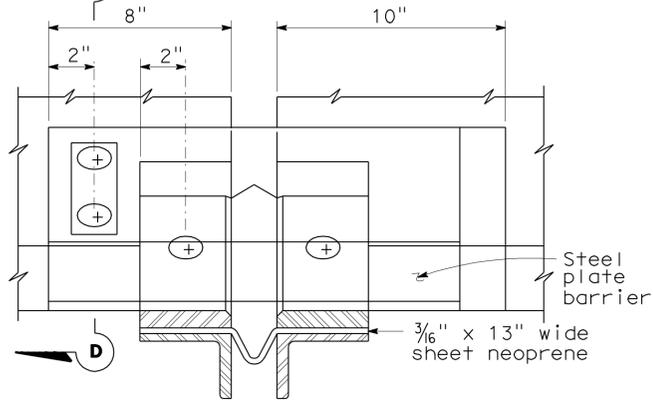
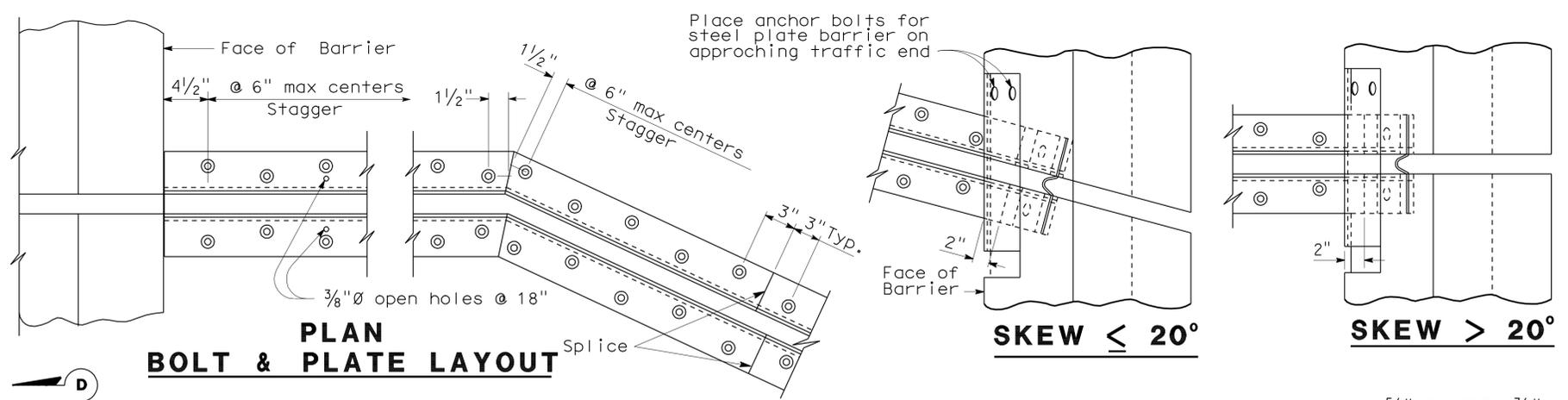
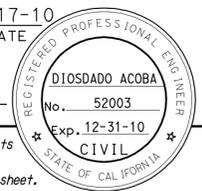
DESIGN	BY M. Hashimoto	CHECKED Don Acoba	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 15 BRIDGES
DETAILS	BY Dale Kubochi	CHECKED Don Acoba			VARIOUS	
QUANTITIES	BY M. Hashimoto	CHECKED Don Acoba			VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 08608 EA 0M6601 DISREGARD PRINTS BEARING EARLIER REVISION DATES 5-13-10

REVISION DATES SHEET 22 OF 24

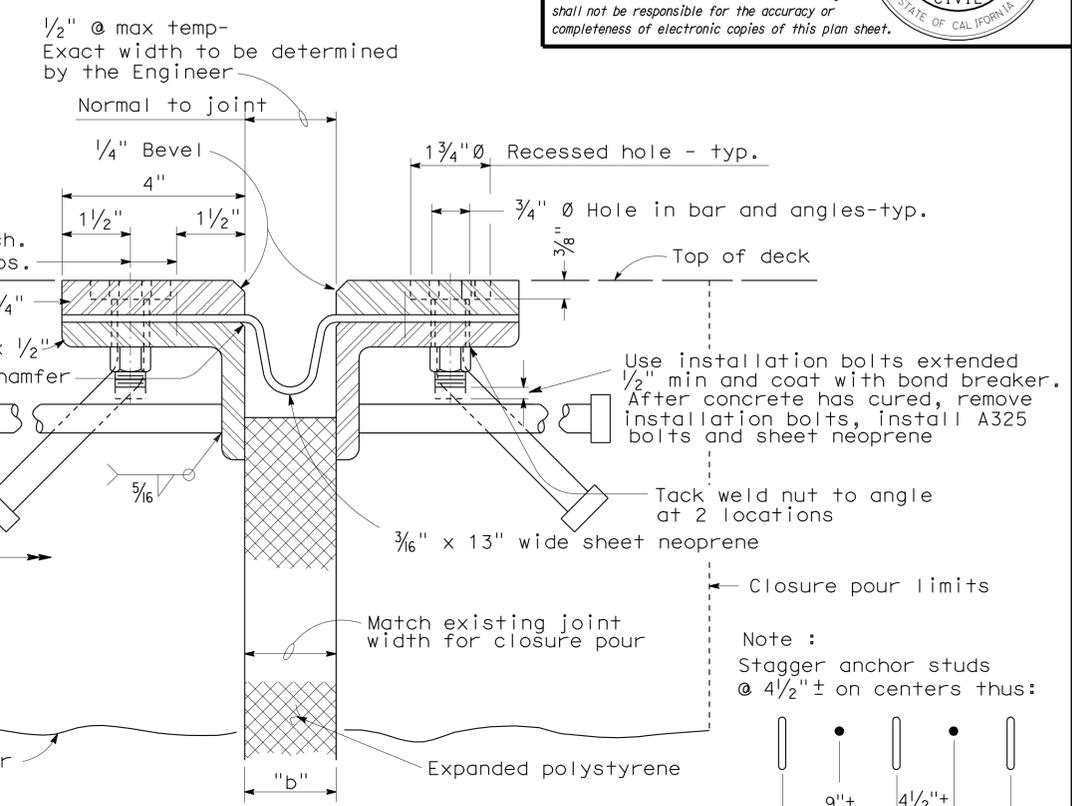
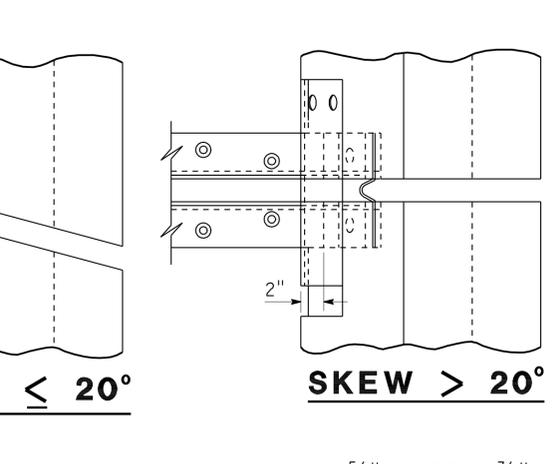
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Riv	15	2.9/51.9	55	56
			11-17-10	REGISTERED CIVIL ENGINEER DATE	
			3-7-11	PLANS APPROVAL DATE	
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**HIGH SIDE BARRIER DETAIL**

**LOW SIDE BARRIER DETAIL**  
( See Note B )

**SIDEWALK DETAIL**  
( See Note B )



**SECTION A-A**

JOINT INFORMATION		"b" DIMENSIONS (Inches)		
BRIDGE NUMBER	LOCATION	Winter	Spring & Fall	Summer
56-0695L	Abut 1 (Ramp)	3 1/2	2	1/2
	Abut 1 (Gore)	3 1/2	2	1/2
	Abut 1 (Main)	3 1/2	2	1/2

**NOTES:** Full penetration butt welds may be substituted for fillet welds on all anchor studs. Alternate types of anchor studs may be permitted subject to the approval by the Engineer. Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified. Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication. Sheet neoprene shall be fabricated in one continuous piece or joints shall be vulcanized. Neoprene shall be fabricated to bend around corners. 1" holes in neoprene sheets shall be drilled or punched so that the neoprene is not distorted at the time of installation.

**NOTE A**  
Insert assembly or expansion anchorage for 5/8" x 1 3/4" A325 bolt.

**NOTE B**  
Use the sidewalk Detail at all sidewalk joints. Use the Barrier Detail at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5" or less.

**NO SCALE**

DESIGN BY M. Hashimoto	CHECKED Don Acoba	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS	<b>ROUTE 15 BRIDGES</b>	
DETAILS BY Dale Kubochi	CHECKED Don Acoba		POST MILE VARIES	<b>JOINT SEAL ASSEMBLY</b> (MAXIMUM MOVEMENT RATING = 4")	
QUANTITIES BY M. Hashimoto	CHECKED Don Acoba		VARIES		

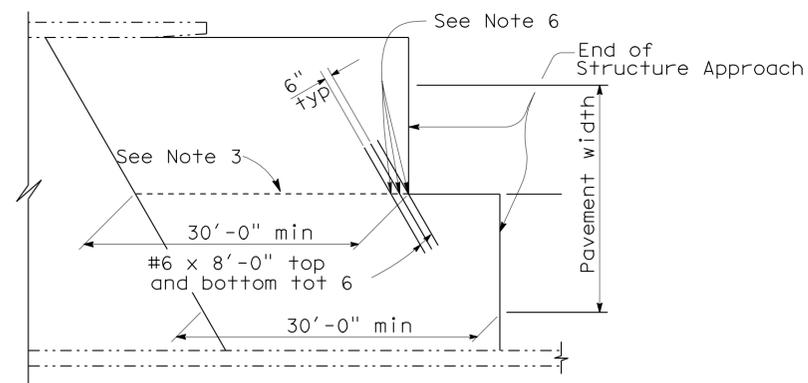
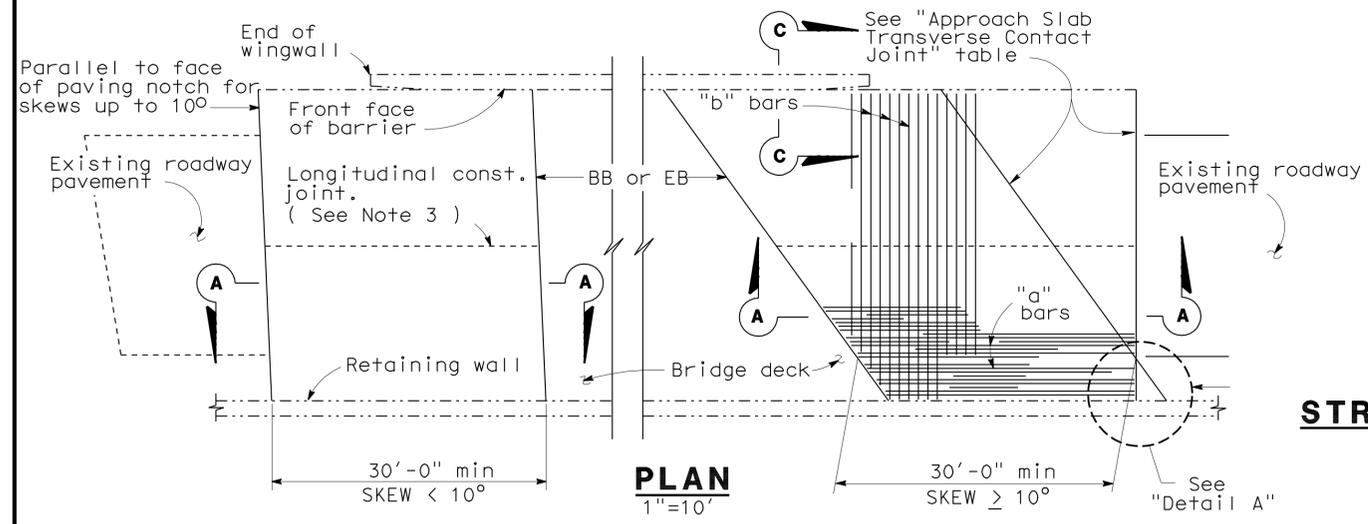
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 08608 EA 0M6601 DISREGARD PRINTS BEARING EARLIER REVISION DATES 5-17-10 11-30-10 SHEET 23 OF 24

DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	2.9/51.9	56	56

11-17-10  
REGISTERED ENGINEER - CIVIL  
3-7-11  
PLANS APPROVAL DATE

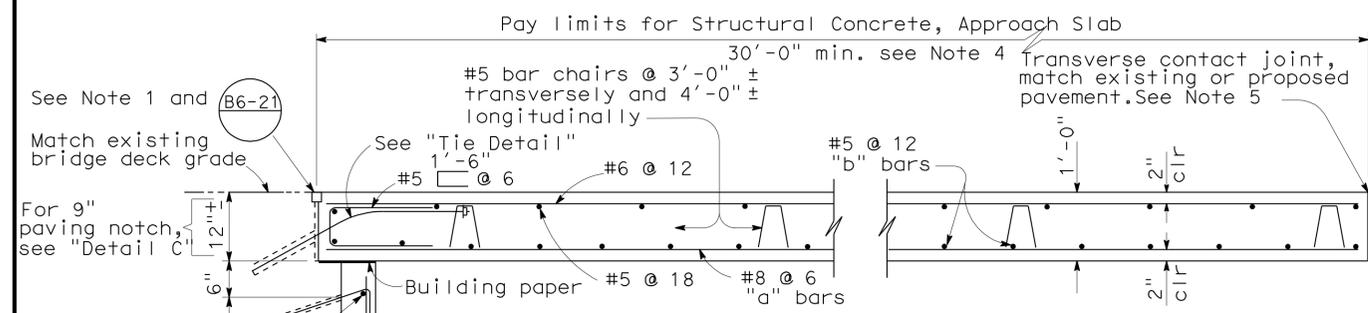
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DIOSDADO ACOPA  
No. 52003  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

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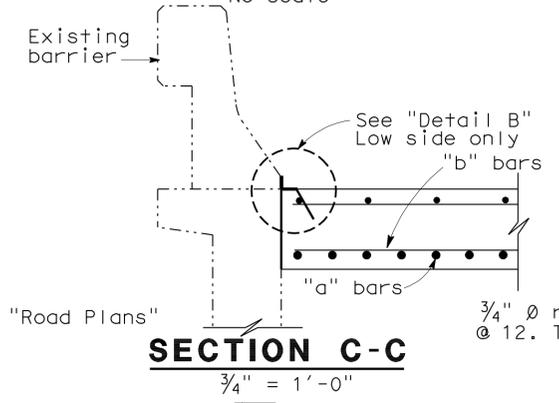


**STRUCTURE APPROACH - END STAGGER DETAIL**  
No Scale

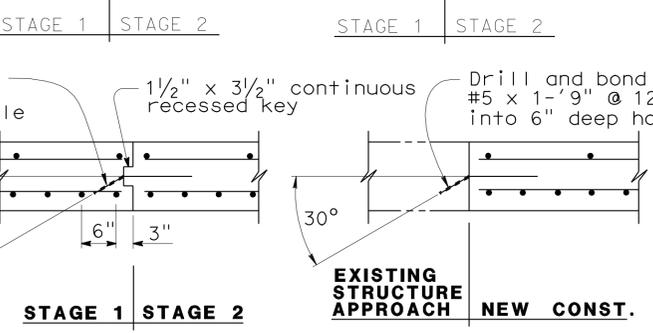
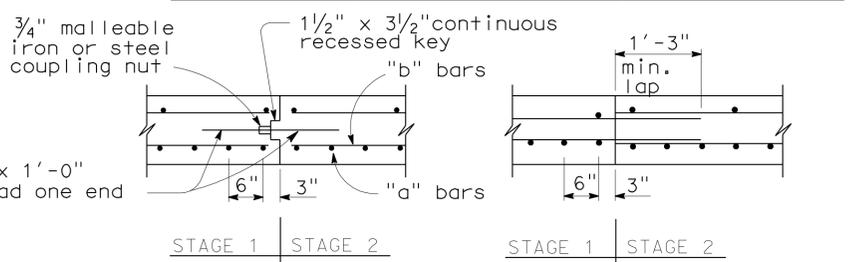
APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



**SECTION A-A**  
3/4" = 1'-0"

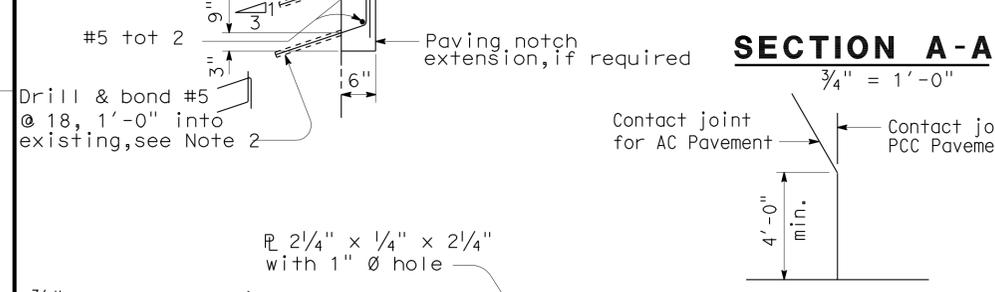


**SECTION C-C**  
3/4" = 1'-0"

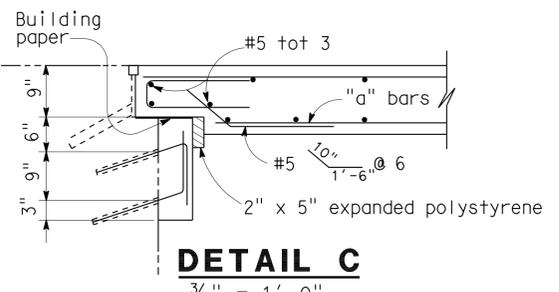


**LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES**  
3/4" = 1'-0"

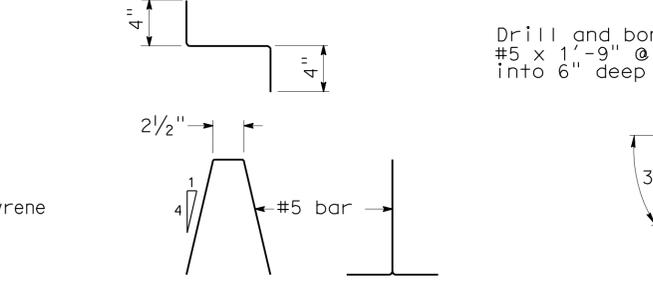
- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
  - Space to avoid existing prestress anchorages and main reinforcement.
  - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
  - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
  - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
  - Couplers are required for stage construction.
  - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.



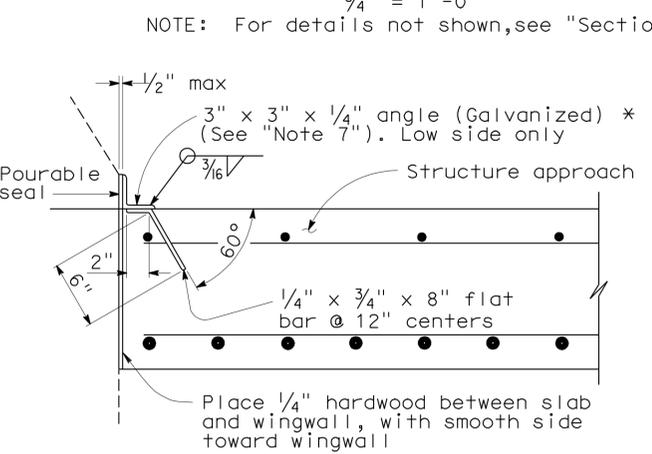
**TIE DETAIL**  
3/4" = 1'-0"



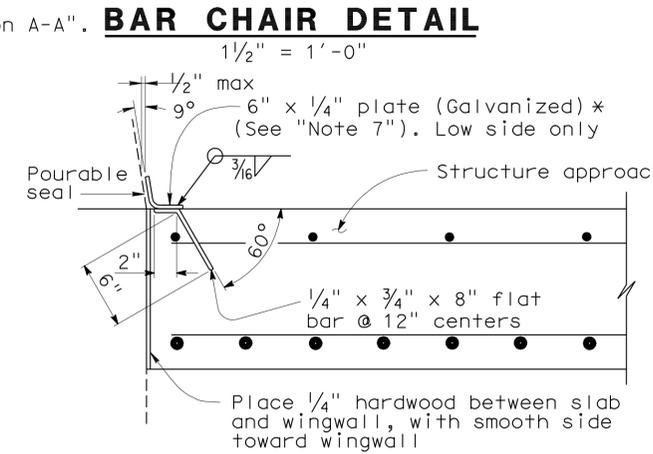
**DETAIL C**  
3/4" = 1'-0"



**BAR CHAIR DETAIL**  
1/2" = 1'-0"



**DETAIL B**  
1/2" = 1'-0"



**\*(TO BE USED WITH TYPE 25 OR TYPE 27 CONCRETE BARRIER) \*(TO BE USED WITH TYPE 732 OR TYPE 736 CONCRETE BARRIER)**

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

STANDARD DRAWING			
RELEASE DATE <b>3/14/05</b>	DESIGN BY <b>M. TRAFFALIS</b>	CHECKED <b>E. THORKILDSEN</b>	RELEASED BY <b>[Signature]</b>
FILE NO. <b>xs3-140e</b>	DETAILS BY <b>R. YEE</b>	CHECKED <b>E. THORKILDSEN</b>	
	SUBMITTED BY <b>M. HA</b>	DRAWING DATE <b>8/92</b>	OFFICE CHIEF

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES
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BRIDGE NO. VARIOUS	ROUTE 15 BRIDGES
MILE POST VARIES	STRUCTURE APPROACH TYPE R(30D)