

INDEX OF PLANS

SHEET No.	DESCRIPTION
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STRUCTURE PLANS

22-30 ROUTE 57, 90 BRIDGES, VARIOUS LOCATIONS

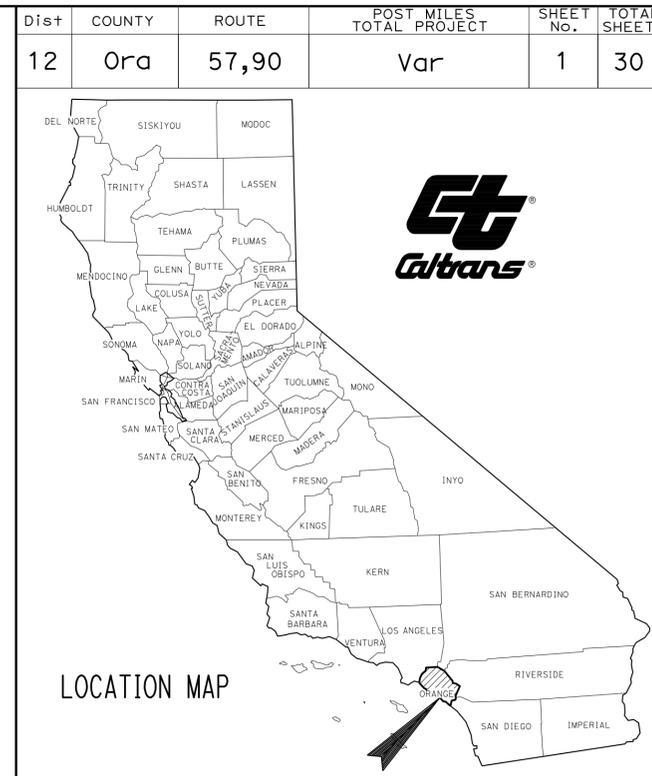
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

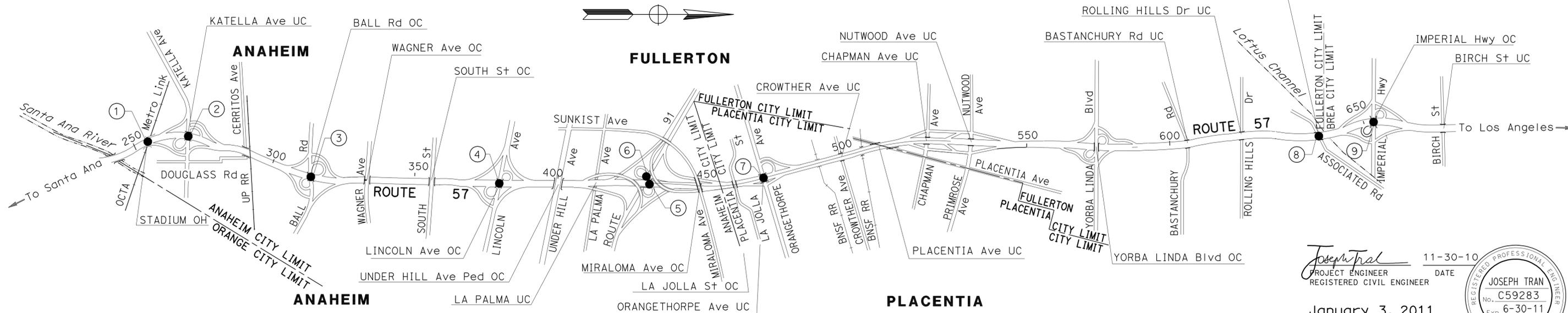
IN ORANGE COUNTY
ON ROUTE 57 AND ROUTE 90
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION

Loc	ROUTE	PM	BRIDGE No.	DESCRIPTION
①	57	12.27	55-0399	STADIUM OH
②	57	12.54	55-0401	KATELLA AVENUE UC
③	57	13.42	55-0524	BALL ROAD OC
④	57	14.78	55-0525	LINCOLN AVENUE OC
⑤	57	15.58	55-0446	ROUTE 57/91 SEPARATION
⑥	57	15.63	55-0446 F	S57-E91 CONNECTOR
⑦	57	16.39	55-0459	ORANGETHORPE AVENUE UC
⑧	57	19.58	55-0466	ASSOCIATED ROAD UC
⑨	57	19.86	55-0469	ROUTE 90/57 SEPARATION
⑩	90	11.15	55-0339	KELLOGG DRIVE UC



PROJECT MANAGER
MASSOUD TAJIK

DESIGN ENGINEER
JOSEPH TRAN

11-30-10 DATE
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
JOSEPH TRAN
No. C59283
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

January 3, 2011
PLANS APPROVAL DATE

CONTRACT No. 12-OL1604
PROJECT ID 1200000386

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK

REVISOR
 PHAT TRAN

DESIGNER
 JOSEPH TRAN

DATE
 11/1/10

REVISIONS

DATE REVISIONS

- NOTES:**
1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.
 2. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET THQ-1
 3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

- LEGEND:**
- ⊥ CONSTRUCTION AREA SIGN, 2-POST
 - ⊗ CONSTRUCTION AREA SIGN No.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

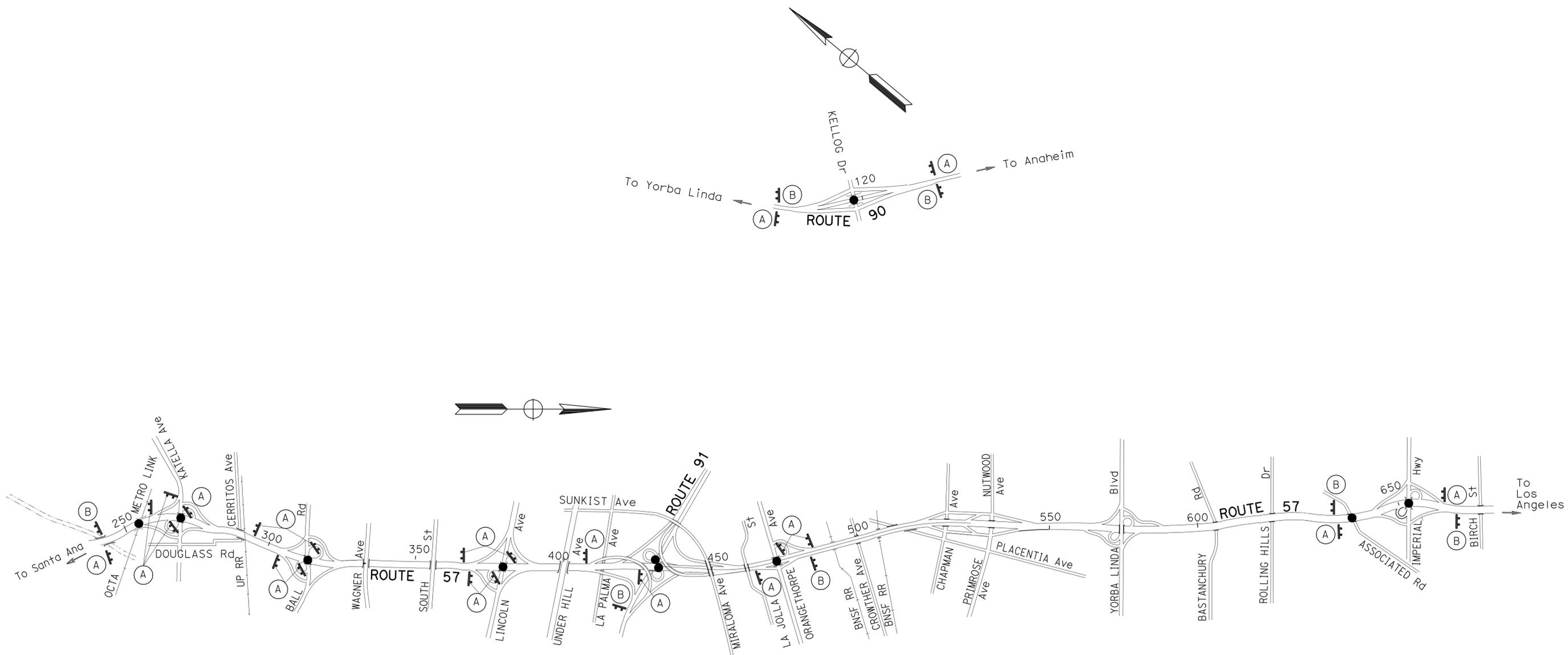
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS (EA)
(A)	W20-1	ROAD WORK AHEAD	48" x 48"	2-4" x 6"	22
(B)	G20-2	END ROAD WORK	48" x 24"	2-4" x 4"	7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	2	30

REGISTERED CIVIL ENGINEER DATE 11-30-10
 JOSEPH TRAN
 No. C59283
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-3-11
 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.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
 PHAT TRAN
 JOSEPH TRAN
 REVISOR: J T
 DATE: 11/1/10

NOTES:
 DURING THE NB 57 KATELLA Ave OFF-RAMP CLOSURE, THE PCMS SHOULD READ:

KATELLA CLOSED USE BALL/TAFT (PCMS-1)
DETOUR KATELLA EXIT HERE (PCMS-2)

CLOSURES #1A:
 NB ROUTE 57 ORANGEWOOD Ave ON-RAMP

DETOURS:
 RIGHT ON STATE COLLEGE Blvd, AND RIGHT ON KATELLA Ave

CLOSURES #1B:
 NB ROUTE 57 KATELLA Ave OFF-RAMP

DETOURS:
 EXIT BALL Rd/TAFT Ave, RIGHT ON BALL Rd/TAFT Ave, AND RIGHT ON MAIN Sr

CLOSURES #1C:
 SB ROUTE 57 KATELLA Ave LOOP ON-RAMP

DETOURS:
 LEFT ON STATE COLLEGE Blvd, AND LEFT ON ORANGEWOOD Ave

CLOSURES #1D:
 SB ROUTE 57 KATELLA Ave ON-RAMP

DETOURS:
 RIGHT ON MAIN St, AND RIGHT ON ORANGEWOOD Ave

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS (DETOUR) AND PCMS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. MESSAGE TO BE DISPLAYED ON THE PCMS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:

- DIRECTION OF TRAVEL
- ▬ CONNECTOR CLOSED
- PCMS-X PORTABLE CHANGEABLE MESSAGE SIGN

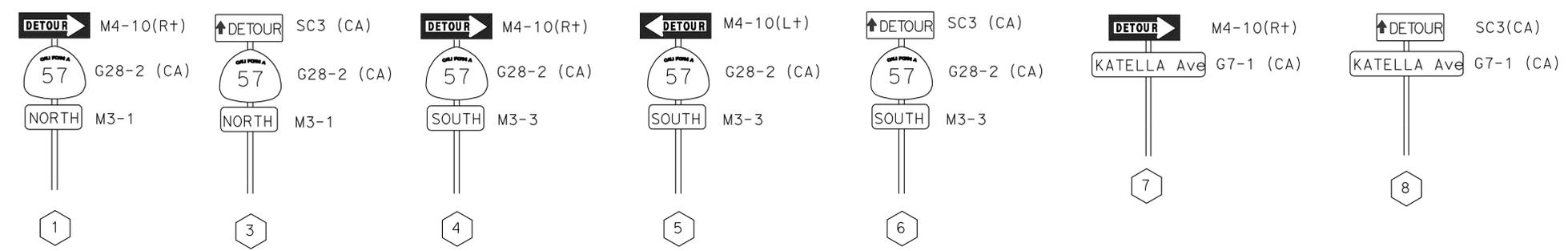
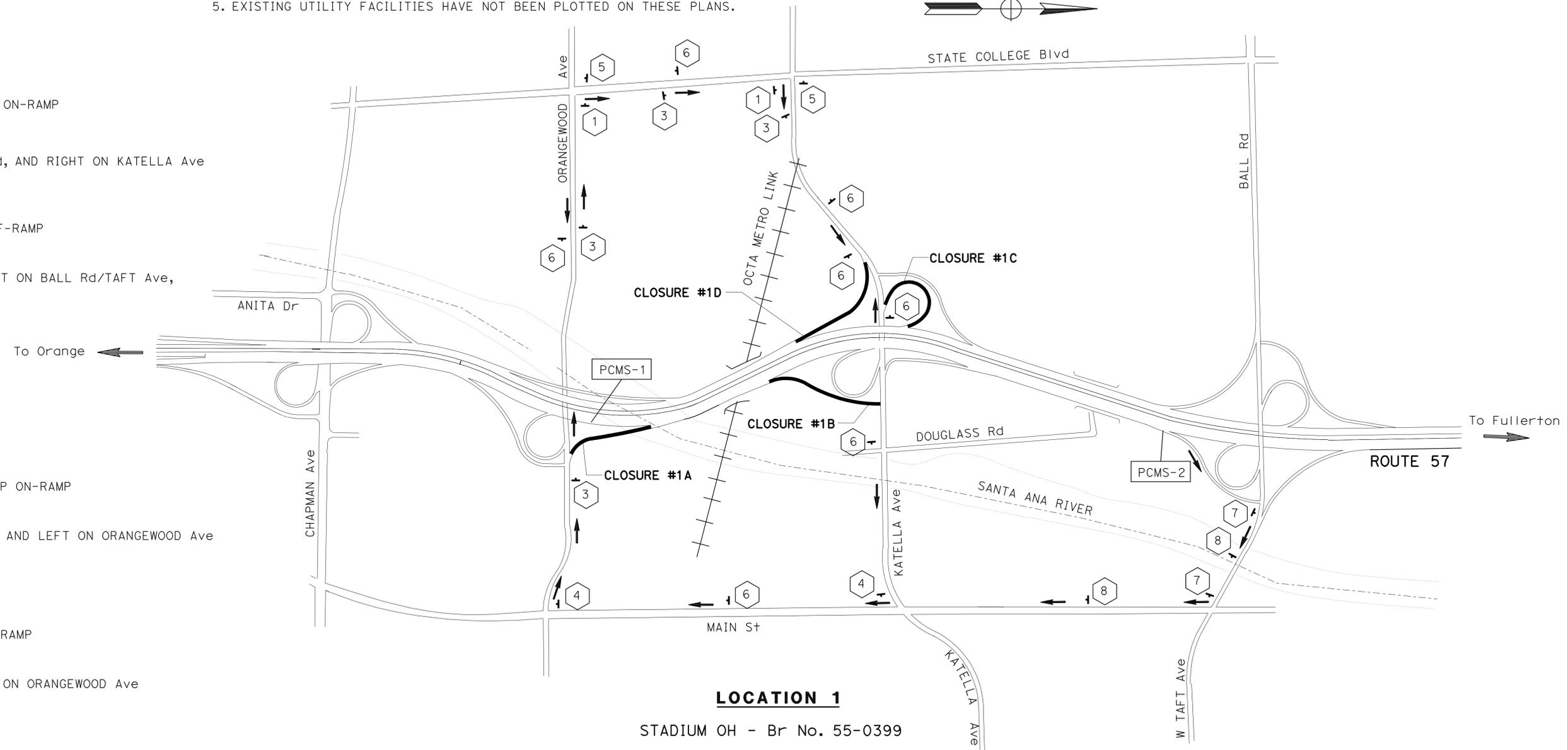
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	3	30

11-30-10
 REGISTERED CIVIL ENGINEER DATE

1-3-11
 PLANS APPROVAL DATE

JOSEPH TRAN
 No. C59283
 Exp. 6-30-11
 CIVIL ENGINEER

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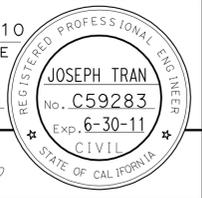


TRAFFIC HANDLING PLAN (DETOUR)
 LOCATION 1
 NO SCALE
TH-1

LAST REVISION DATE PLOTTED => 07-JAN-2011 11-29-10 TIME PLOTTED => 1:3:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	4	30

Joseph Tran 11-30-10
 REGISTERED CIVIL ENGINEER DATE
 1-3-11
 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.

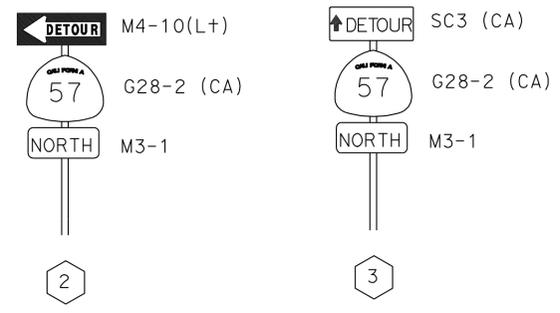


CALCULATED/DESIGNED BY	PHAT TRAN	REVISOR	J T
CHECKED BY	JOSEPH TRAN	DATE REVISOR	11/1/10
FUNCTIONAL SUPERVISOR	MASSOUD TAJIK		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE		



CLOSURES #2:
 NB ROUTE 57 KATELLA Ave LOOP ON-RAMP
DETOURS:
 LEFT ON MAIN St, AND LEFT ON TAFT Ave

LOCATION 2
 KATELLA Ave UC - Br No. 55-0401



TRAFFIC HANDLING PLAN (DETOUR)
 LOCATION 2
 NO SCALE
TH-2

LAST REVISION DATE PLOTTED => 07-JAN-2011 11-29-10 TIME PLOTTED => 13:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	5	30

REGISTERED CIVIL ENGINEER DATE 11-30-10
 JOSEPH TRAN
 No. C59283
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-3-11
 PLANS APPROVAL DATE

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CLOSURES #3A:

NB ROUTE 57 BALL Rd LOOP ON-RAMP

DETOURS:

LEFT ON MAIN St, AND LEFT ON LINCOLN Ave

CLOSURES #3B:

SB ROUTE 57 BALL Rd LOOP ON-RAMP

DETOURS:

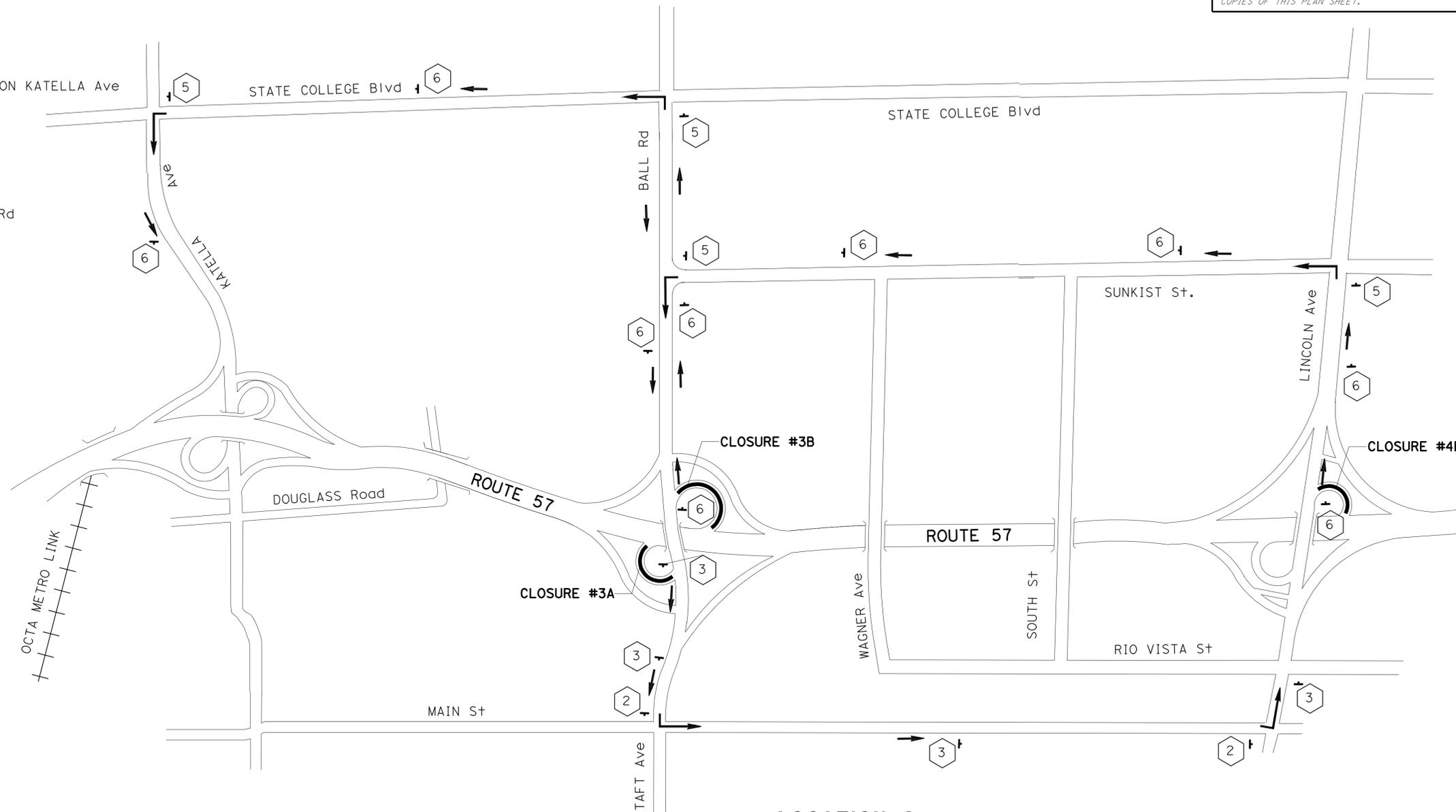
LEFT ON STATE COLLEGE Blvd, AND LEFT ON KATELLA Ave

CLOSURES #4B:

SB ROUTE 57 LINCOLN Ave LOOP ON-RAMP

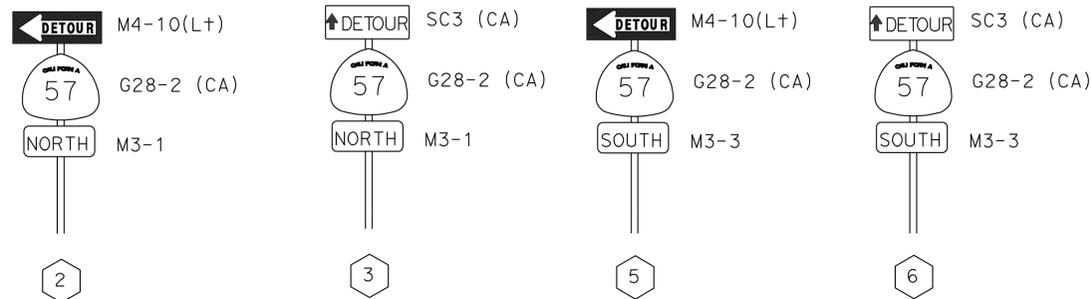
DETOURS:

LEFT ON SUNKIST St, AND LEFT ON BALL Rd



LOCATION 3
BALL Rd OC - Br No. 55-0524

LOCATION 4
LINCOLN Ave OC - Br No. 55-0525



**TRAFFIC HANDLING PLAN
(DETOUR)
LOCATION 3 & 4**

NO SCALE

TH-3

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY



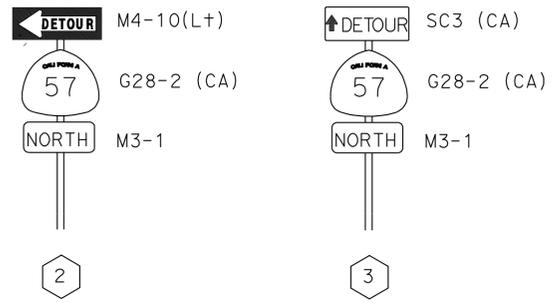
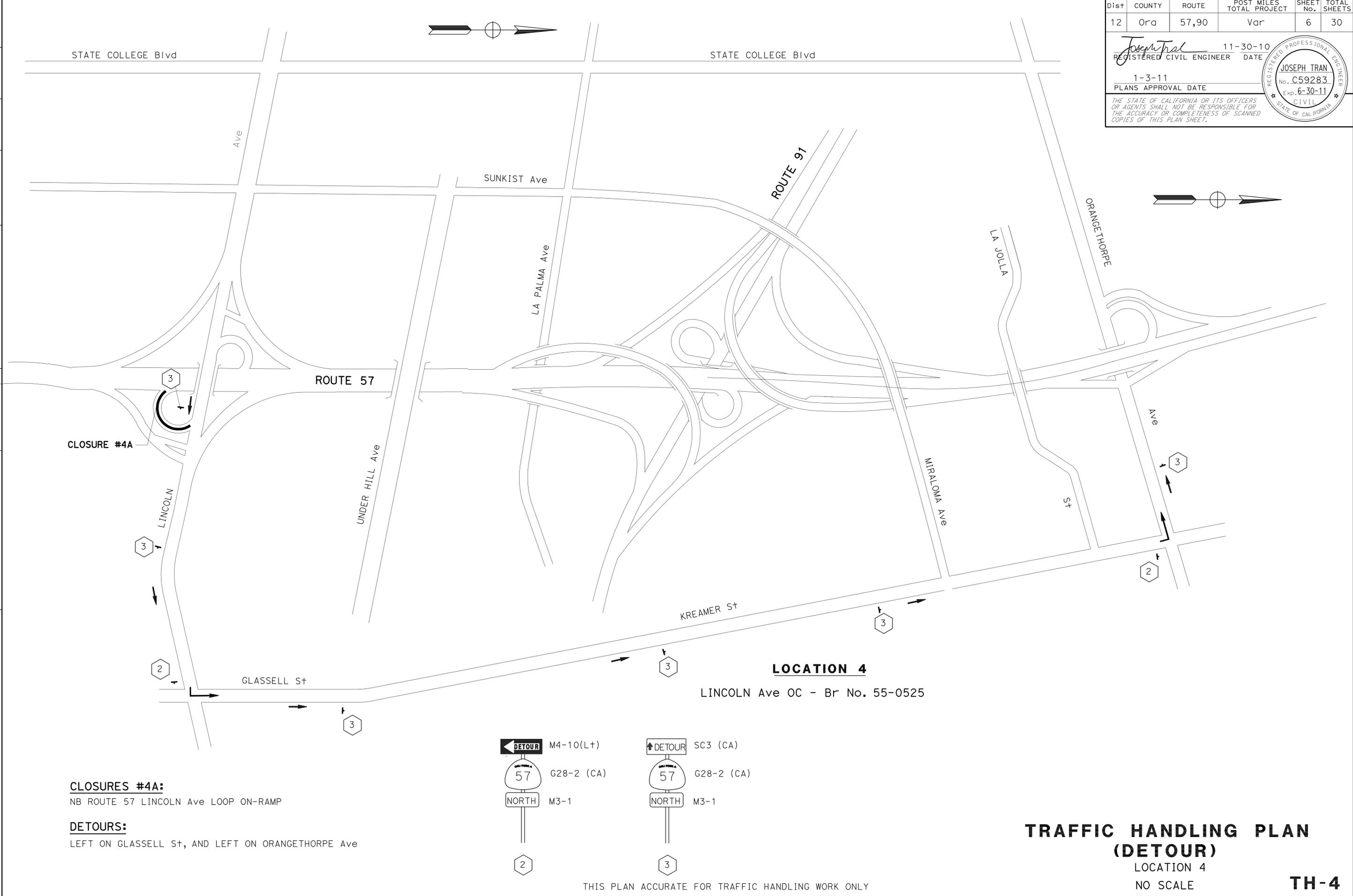
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	6	30

<i>Joseph Tran</i>	11-30-10
REGISTERED CIVIL ENGINEER	DATE
1-3-11	
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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	PHAT TRAN	REVISOR BY	J T
Caltrans	MASSOUD TAJIK	CHECKED BY	JOSEPH TRAN	DATE REVISED	11/1/10
MAINTENANCE					



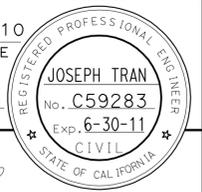
THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 07-JAN-2011 11-29-10 TIME PLOTTED => 13:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	7	30

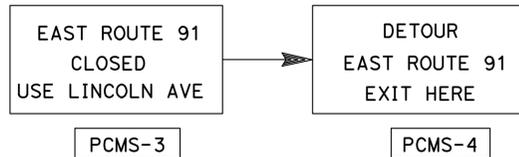
<i>Joseph Tran</i>	11-30-10
REGISTERED CIVIL ENGINEER	DATE
1-3-11	
PLANS APPROVAL DATE	

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.



NOTES:

DURING THE CLOSURE,
THE PCMS SHOULD READ AS FOLLOWS:

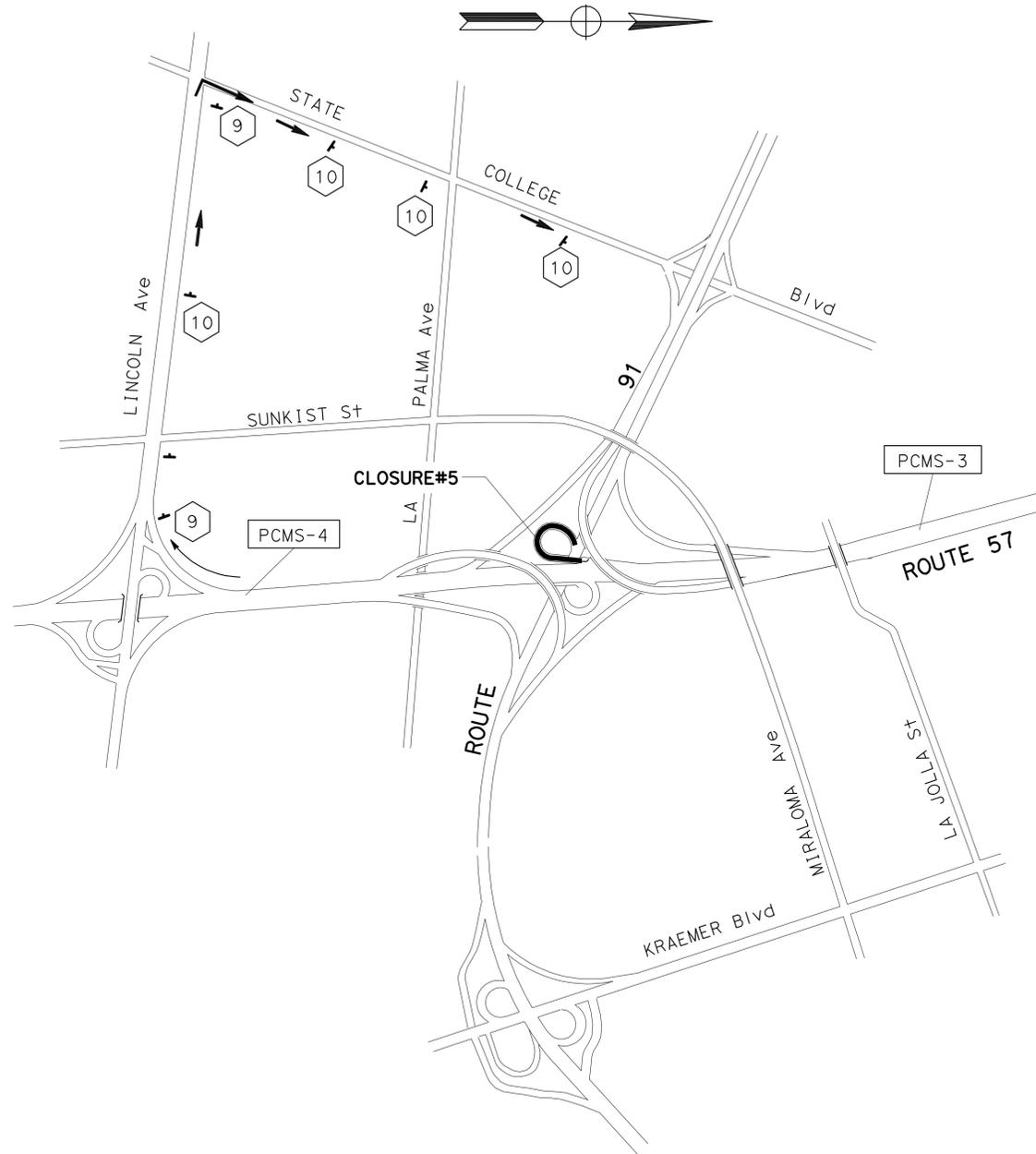


CLOSURES 5:

SB ROUTE 57 TO EB ROUTE 91 CONNECTOR

DETOURS:

EXIT LINCOLN Ave, RIGHT ON LINCOLN Ave, AND RIGHT ON STATE COLLEGE Blvd



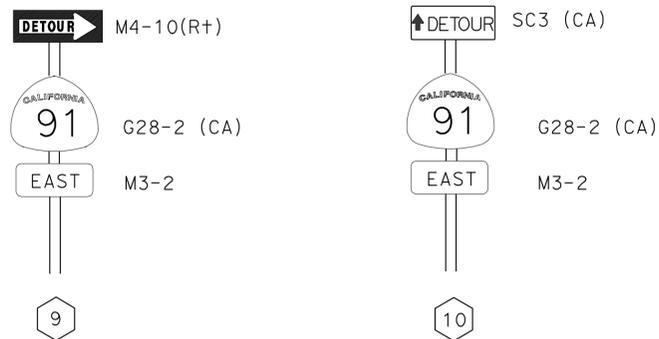
LOCATION 5
S57/E91 CONNECTOR - Br No. 55-0446F

**TRAFFIC HANDLING PLAN
(DETOUR)**

LOCATION 5
NO SCALE

TH-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	MASSOUD TAJIK	PHAT TRAN	11/1/10
MAINTENANCE		JOSEPH TRAN	



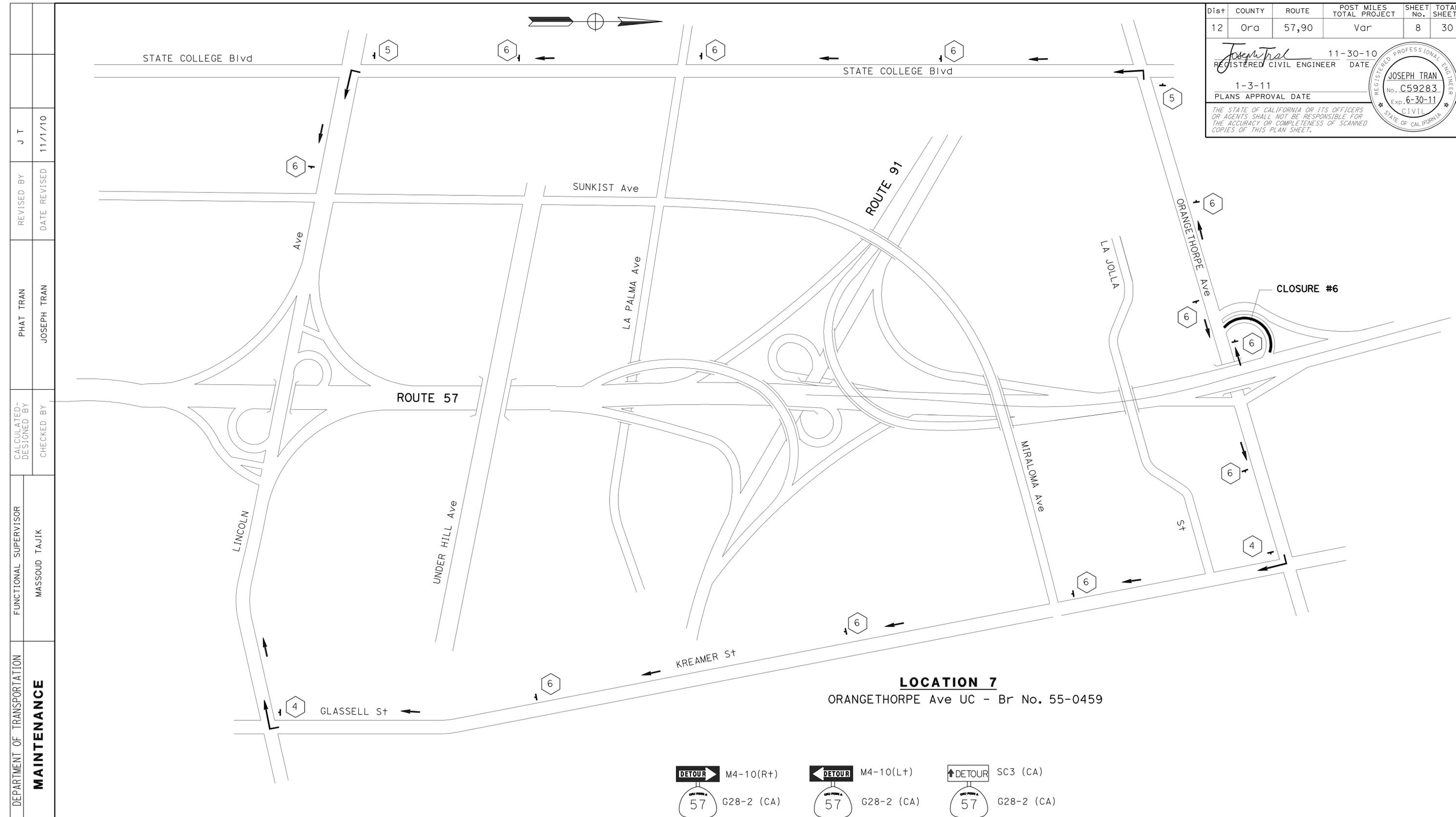
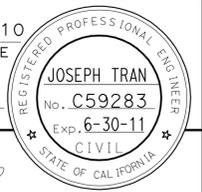
THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY



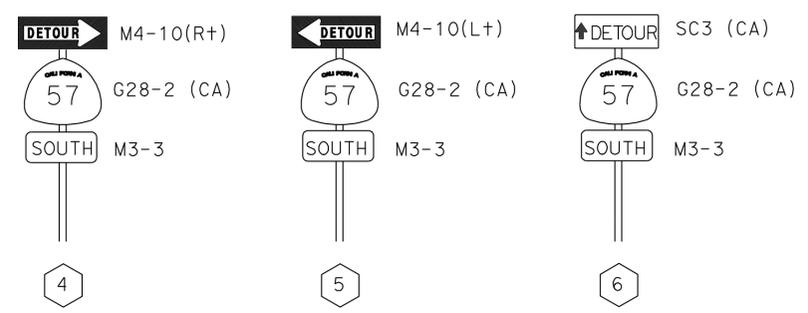
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	8	30

<i>Joseph Tran</i>	11-30-10
REGISTERED CIVIL ENGINEER	DATE
1-3-11	
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.



LOCATION 7
 ORANGETHORPE Ave UC - Br No. 55-0459



CLOSURES #6:
 SB ROUTE 57 ORANGETHORPE Ave LOOP ON-RAMP

DETOURS:
 FROM EAST ORANGETHORPE Ave: RIGHT ON KREAMER St, AND RIGHT ON LINCOLN Ave
 FROM WEST ORANGETHORPE Ave: LEFT ON STATE COLLEGE Blvd, AND LEFT ON LINCOLN Ave

TRAFFIC HANDLING PLAN (DETOUR)

LOCATION 7

NO SCALE

TH-6

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY

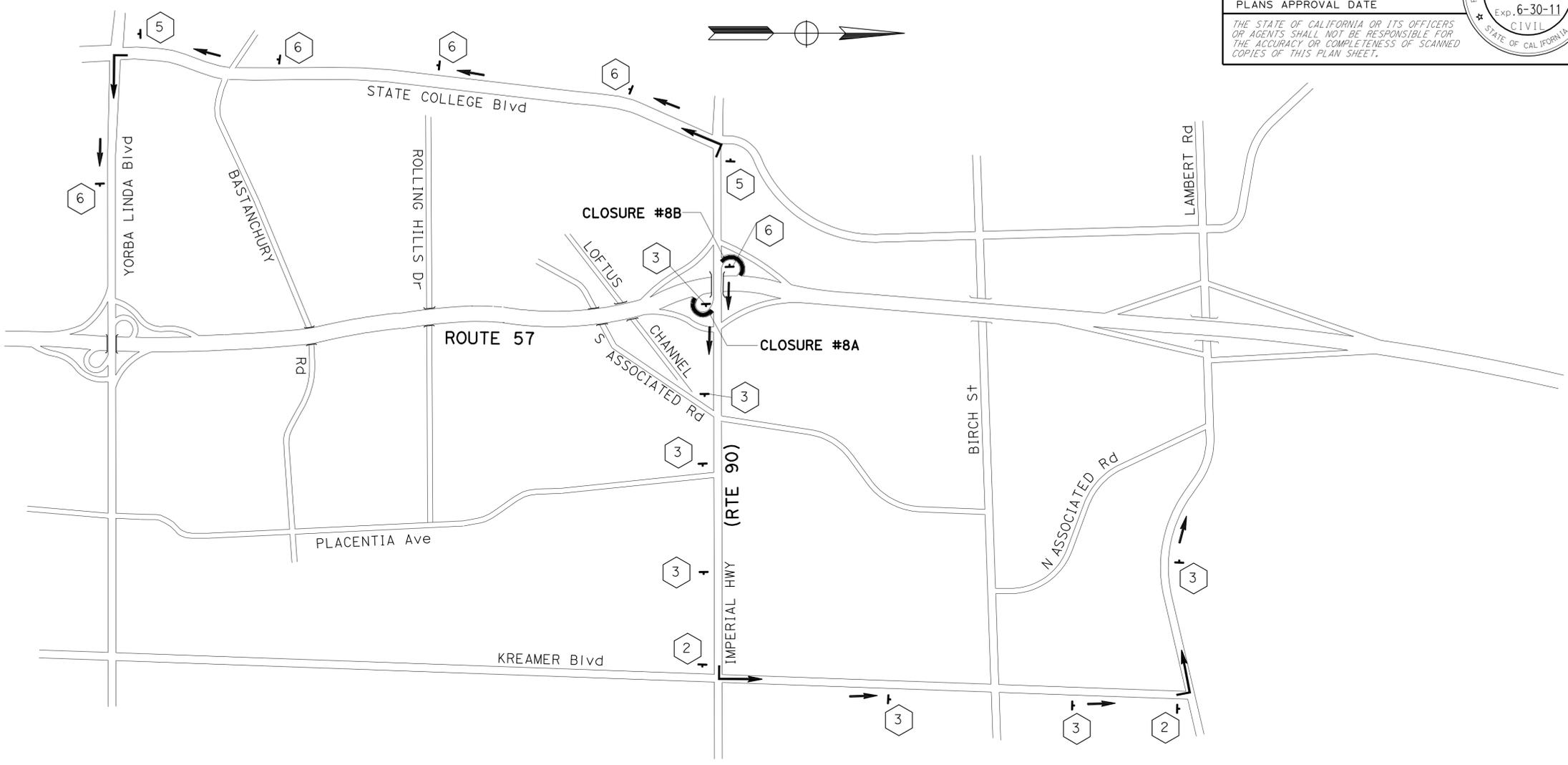
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE
FUNCTIONAL SUPERVISOR	MASSOUD TAJIK
CALCULATED/DESIGNED BY	CHECKED BY
PHAT TRAN	JOSEPH TRAN
REVISOR	DATE
J T	11/1/10

LAST REVISION | DATE PLOTTED => 07-JAN-2011
 11-29-10 TIME PLOTTED => 13:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	10	30

REGISTERED CIVIL ENGINEER DATE 11-30-10
 1-3-11 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.

REGISTERED PROFESSIONAL ENGINEER
JOSEPH TRAN
 No. C59283
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA



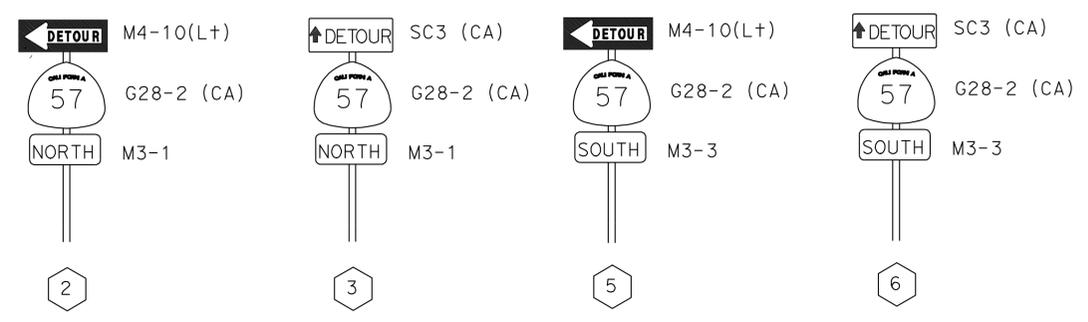
CLOSURES #8A:
NB ROUTE 57 IMPERIAL Hwy (Rte 90) LOOP ON-RAMP

DETOURS:
LEFT ON KREAMER Blvd, AND LEFT ON LAMBERT Rd

CLOSURES #8B:
SB ROUTE 57 IMPERIAL Hwy (Rte 90) LOOP ON-RAMP

DETOURS:
LEFT ON STATE COLLEGE Blvd, AND LEFT ON YORBA LINDA Blvd

LOCATION 9
ROUTE 90/ROUTE 57 SEPARATION - Br No. 55-0469



TRAFFIC HANDLING PLAN (DETOUR)
LOCATION 9
NO SCALE
TH-8

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 PHAT TRAN
 JOSEPH TRAN
 REVISOR
 DATE
 11/1/10
 J T
 11/1/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	11	30

Joseph Tran 11-30-10
 REGISTERED CIVIL ENGINEER DATE

1-3-11
 PLANS APPROVAL DATE

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NOTES:

- ALL SIGNS ARE STATIONARY MOUNTED. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.
- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) MAY BE REUSED IN DIFFERENT STAGES.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CALCULATED/DESIGNED BY CHECKED BY
 PHAT TRAN JOSEPH TRAN
 REVISED BY DATE REVISED
 J T 11/1/10

SHEET NO.	DETOUR SIGN TYPE	POST SIZE (IN)	NO. OF SIGNS (EA)	NO. OF POSTS	REMARKS
TH-1	①	4" x 6"	2	2	(S)
	③	4" x 6"	4	4	(S)
	④	4" x 6"	2	2	(S)
	⑤	4" x 6"	2	2	(S)
	⑥	4" x 6"	6	6	(S)
	⑦	4" x 6"	2	2	(S)
	⑧	4" x 6"	2	2	(S)
TH-2	②	4" x 6"	2	2	(S)
	③	4" x 6"	3	3	(S)
TH-3	②	4" x 6"	2	2	(S)
	③	4" x 6"	4	4	(S)
	⑤	4" x 6"	4	4	(S)
TH-4	⑥	4" x 6"	9	9	(S)
	②	4" x 6"	2	2	(S)
	③	4" x 6"	6	6	(S)
TH-5	⑨	4" x 6"	2	2	(S)
	⑩	4" x 6"	4	4	(S)
TH-6	④	4" x 6"	2	2	(S)
	⑤	4" x 6"	2	2	(S)
	⑥	4" x 6"	11	11	(S)
TH-7	④	4" x 6"	2	2	(S)
	⑥	4" x 6"	7	7	(S)
	⑪	4" x 6"	2	2	(S)
	⑫	4" x 6"	4	4	(S)
TH-8	②	4" x 6"	2	2	(S)
	③	4" x 6"	7	7	(S)
	⑤	4" x 6"	2	2	(S)
	⑥	4" x 6"	5	5	(S)
TOTAL			104		

(S) DENOTES STATIONARY MOUNTED SIGN.

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

TYPE	No. OF SIGNS	MESSAGE
PCMS	6	TO BE DETERMINED BY ENGINEER

TRAFFIC HANDLING QUANTITIES
THQ-1

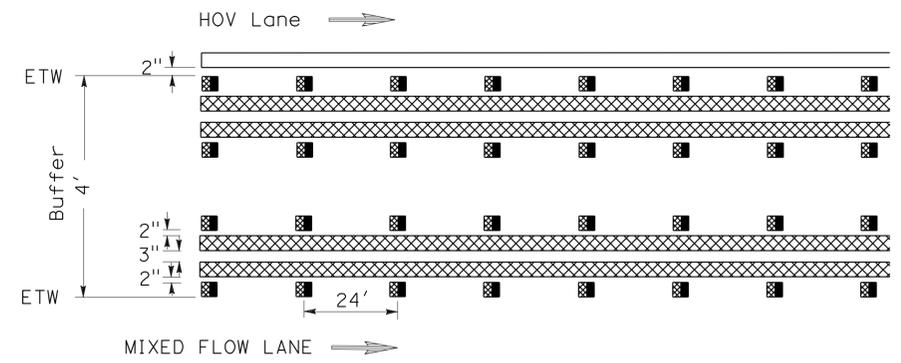
LAST REVISION | DATE PLOTTED => 07-JAN-2011
 11-29-10 TIME PLOTTED => 1:3:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	12	30

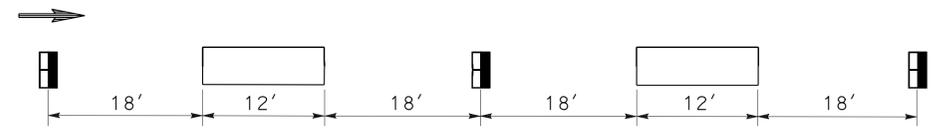
REGISTERED CIVIL ENGINEER DATE 11-30-10
 JOSEPH TRAN
 No. C59283
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-3-11
 PLANS APPROVAL DATE

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DETAIL A
HOV LANE BUFFER STRIPING DETAIL
BUFFER WIDTH - 4 FOOT



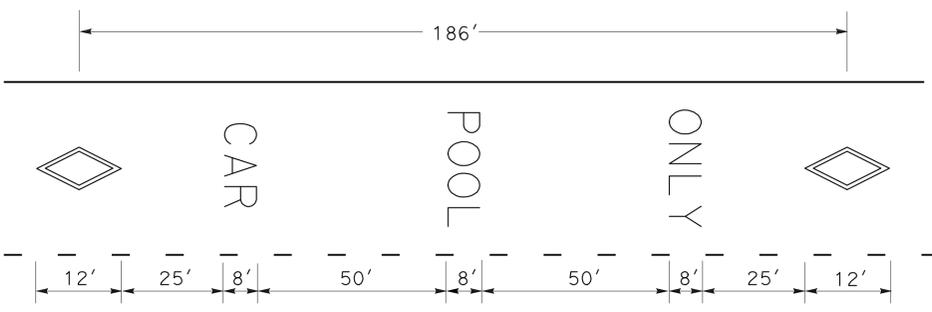
DETAIL B
INGRESS/EGRESS STRIPING

LEGEND

- TYPE A WHITE NON-REFLECTIVE MARKER
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER
- ▨ 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE
- ▭ 4" WHITE THERMOPLASTIC TRAFFIC STRIPE
- ▭ 8" WHITE THERMOPLASTIC TRAFFIC STRIPE
- ➔ DIRECTION OF TRAFFIC

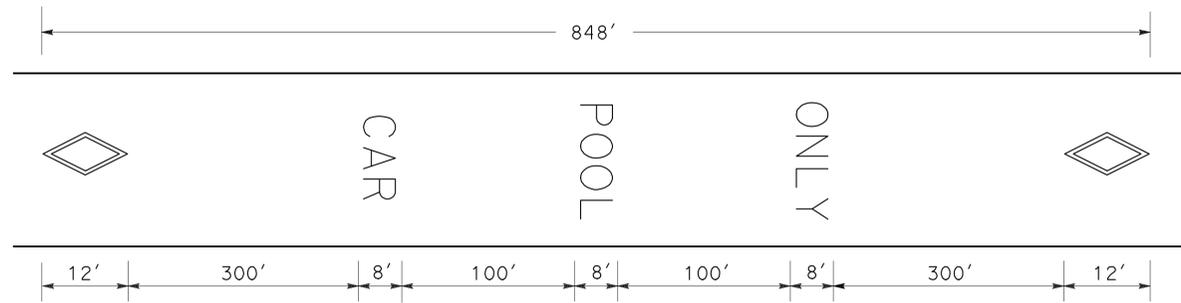
NOTE:

SEE STANDARD PLANS FOR PAVEMENT MARKING SYMBOL AND WORD DETAILS NOT SHOWN.



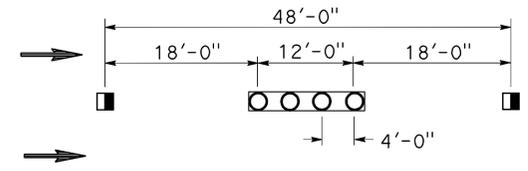
MIXED FLOW TRAFFIC ➔

DETAIL C
TYPICAL HOV LANE PAVEMENT MARKING
AT INGRESS/EGRESS LOCATIONS



MIXED FLOW TRAFFIC ➔

DETAIL D
HOV LANE PAVEMENT MARKING
EXCEPT AT INGRESS/EGRESS LOCATIONS



DETAIL 13 Mod

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans®
 MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CALCULATED/DESIGNED BY CHECKED BY
 PHAT TRAN JOSEPH TRAN
 REVISED BY DATE REVISED
 J T 11/1/10
 DISTRICT 12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57,90	Var	13	30

Joseph Tran 11-30-10
 REGISTERED CIVIL ENGINEER DATE
 1-3-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH TRAN
 No. C59283
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION - DESCRIPTION					THERMOPLASTIC TRAFFIC STRIPE										THERMOPLASTIC PAVEMENT MARKING				PAVEMENT MARKER			REMOVE											
					DETAIL "A" 4" SOLID WHITE	DETAIL "A" 4" SOLID YELLOW	DETAIL 22 4" SOLID YELLOW	DETAIL 25 4" SOLID YELLOW	DETAIL 27B 4" SOLID WHITE	DETAIL 8 4" WHITE BROKEN (17-7)	DETAIL 9 4" WHITE BROKEN (17-7)	DETAIL 12 4" WHITE BROKEN (36-12)	DETAIL 13 Mod 4" WHITE BROKEN (36-12)	DETAIL "B" 8" WHITE BROKEN (36-12)	DETAIL 36 8" SOLID WHITE	DETAIL 37 8" WHITE BROKEN (12-3)	12" DIAGONAL STRIPE	DIAMOND SYMBOL	WORDS	ARROW TYPE III (R)	NON-REFLECTIVE TYPE A	RETRO-REFLECTIVE TYPE G	RETRO-REFLECTIVE TYPE H	CONCRETE BARRIER MARKER	YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER					
Loc	Rte	PM	STRUCTURE NAME & BRIDGE No.	Dir	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	EA	EA	EA	EA	LF	LF	SQFT	EA						
①	57	12.27	STADIUM OVERHEAD BR. NO. 55-0399	NB	400	1600		415	225					1173		716				110				98	54	75	10	2015	2514	110	227		
				SB	430	1720		415	480							1380			470			120				115	60	80	10	2135	2760	120	255
②	57	12.54	KATELLA Ave UNDERCROSSING BR. NO. 55-0401	NB	205	820		205	325	85				615		120			48		45		51	18	38	5	1025	1350	93	108			
				SB				205	300	100					615	205	100				48	11	51		51	26	4	5	205	1320	110	81	
③	57	13.42	BALL Rd OVERCROSSING BR. NO. 55-0524	EB																					10	5			480		15		
				WB																							10	5			480		15
④	57	14.78	LINCOLN Ave OVERCROSSING BR. NO. 55-0525	EB																											500	84	27
				WB														250															500
⑤	57	15.58	ROUTE 57/91 SEPARATION BR. NO. 55-0446	NB				270	270		540			270			110	11							23	6	6	6	270	1080	121	28	
				SB				270	270		810				270												28	6	6	6	270	1350	
⑥	57	15.63	S57-E91 CONNECTOR BR. NO. 55-0446 F	SB				270	270																	12		270	270		12		
⑦	57	16.39	ORANGETHORPE Ave UNDERCROSSING BR. NO. 55-0459	NB	180	720		180	180					720										60	15	34	5	900	1080		109		
				SB	60	240		180	180		660			120	60	180			11	22							33	14	5	420	1260	33	47
⑧	57	19.58	ASSOCIATED Rd UNDERCROSSING BR. NO. 55-0466	NB	150	600		150	150					450		150								38	16	28	4	750	900		81		
				SB	150	600		150	150							450					45					38	9	28	4	750	750	45	75
⑨	57	19.86	IMPERIAL Hwy OVERCROSSING BR. NO. 55-0469	EB			240						480													10	10		240	480		20	
				WB			240								480													10	10		240	480	
⑩	90	11.15	KELLOG Dr UNDERCROSSING BR. NO. 55-0339	NB			150		150					150										13	3	6	4	150	300		22		
				SB			150		150						150											13	3	6	4	150	300		22
SUB-TOTAL					1575	6300	780	2710	3100	185	3720	960	5703	865	1146	950	436	33	163	84	477	360	377	69	9790	18154	716	1213					
TOTAL					14465			3905			6663			865	1146	950	716			477	737		69	9790	18154	716	1213						

PAVEMENT DELINEATION QUANTITIES

PDQ-1

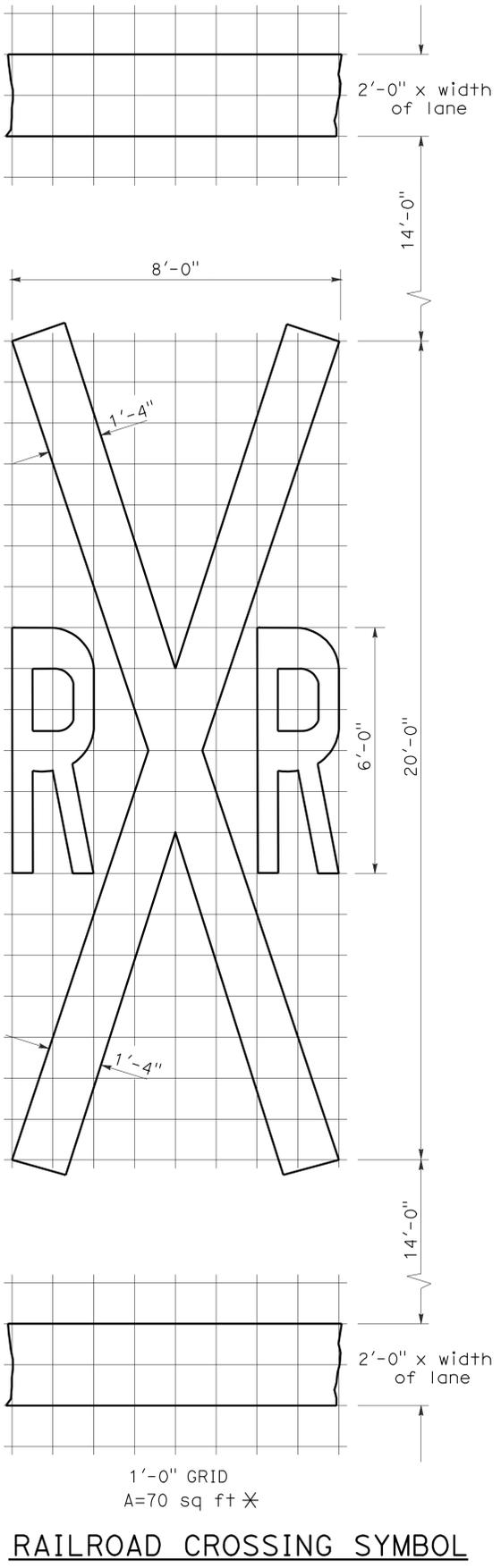
LAST REVISION | DATE PLOTTED => 07-JAN-2011
 11-29-10 | TIME PLOTTED => 13:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57,90	Var	14	30

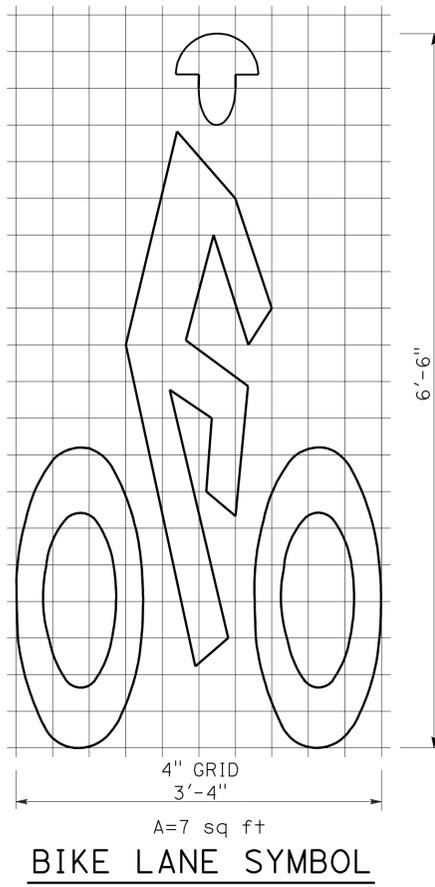
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

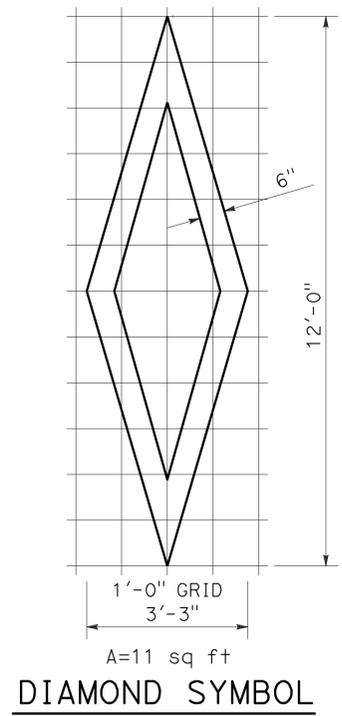
To accompany plans dated 1-3-11



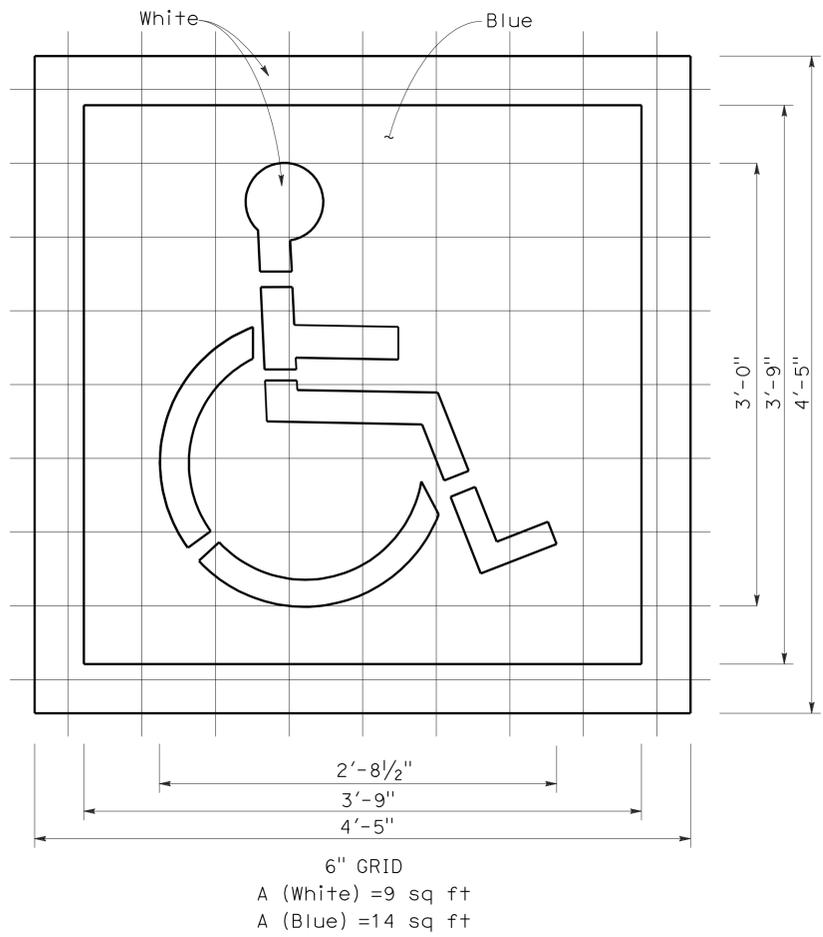
RAILROAD CROSSING SYMBOL
 *70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



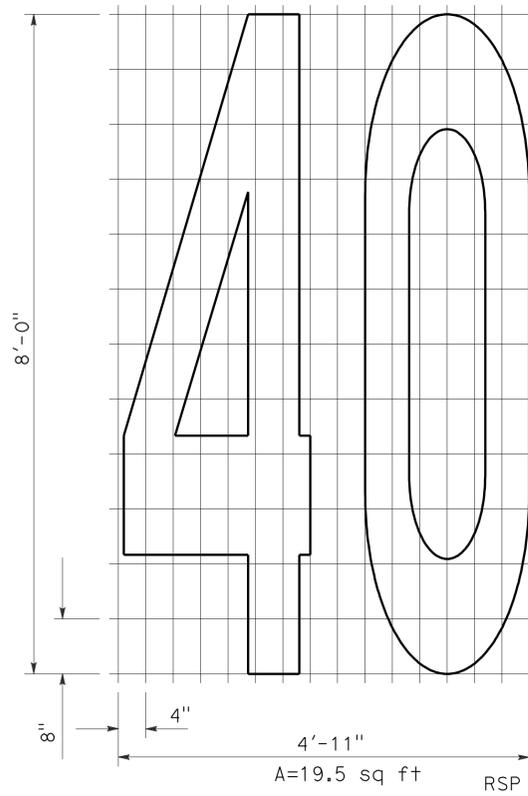
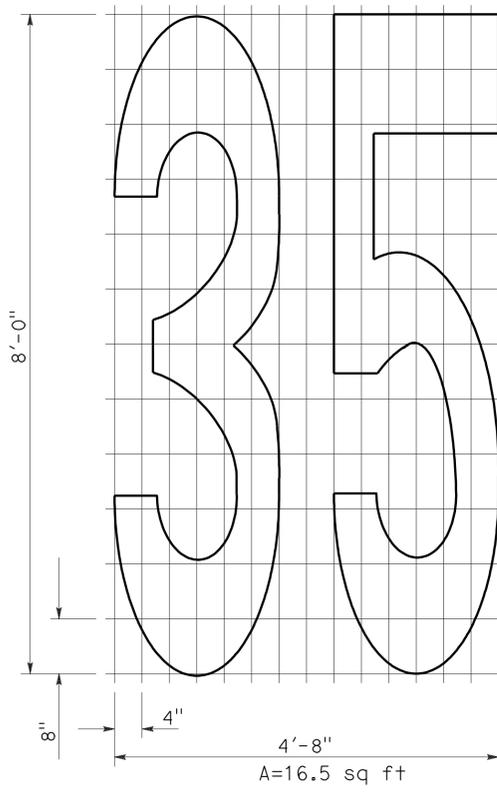
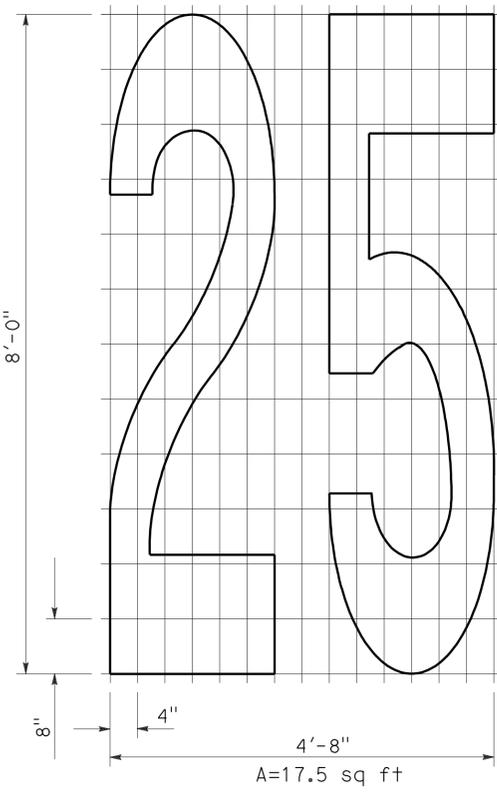
BIKE LANE SYMBOL



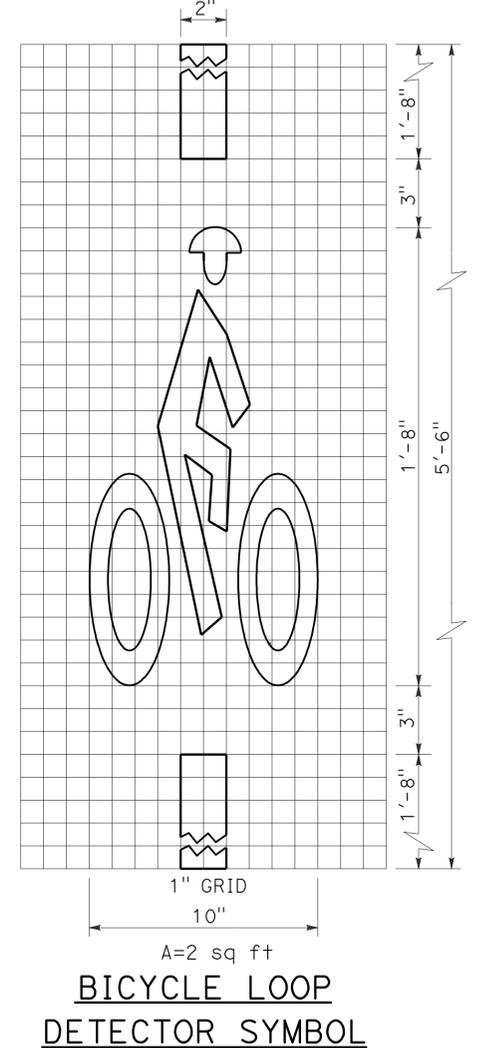
DIAMOND SYMBOL



INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

NOTE:
 1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57,90	Var	15	30

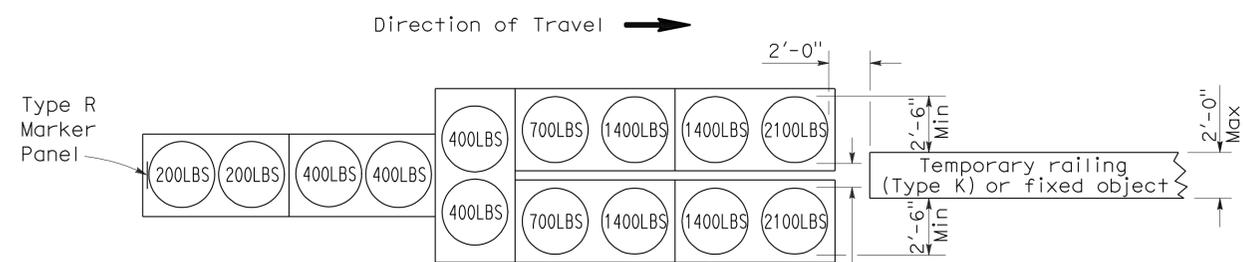
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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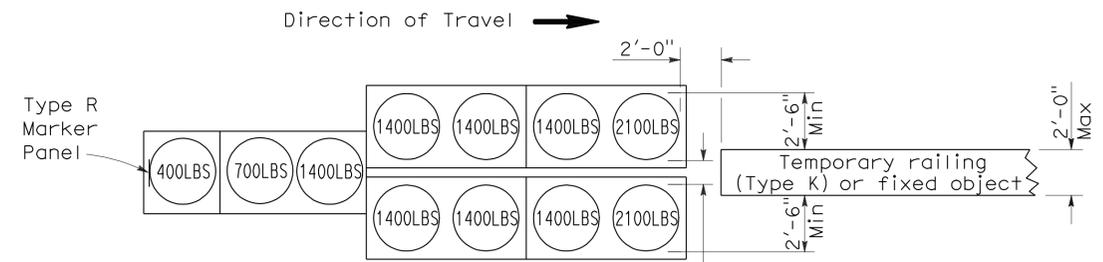
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-3-11



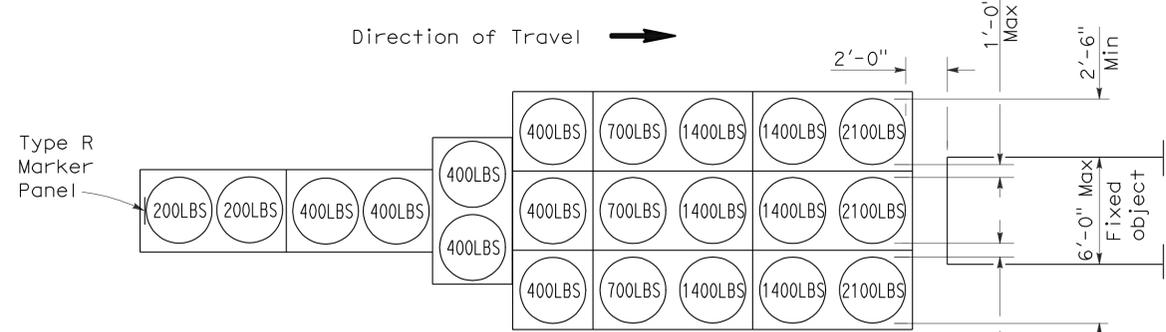
ARRAY 'TU14'

Approach speed 45 mph or more



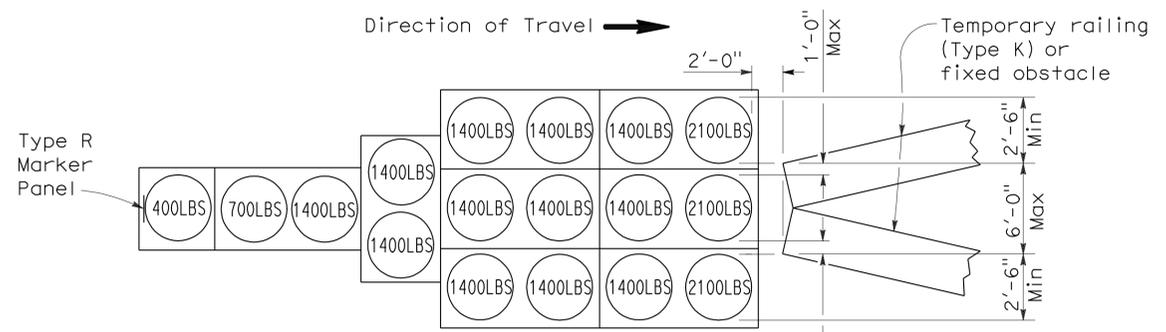
ARRAY 'TU11'

Approach speed less than 45 mph



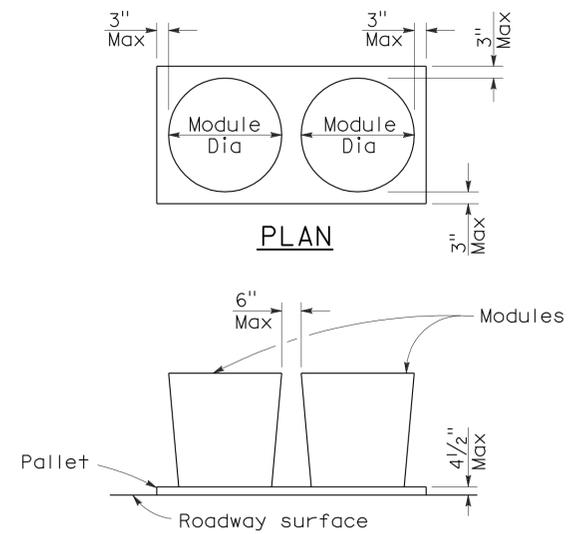
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



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 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
12	Ora	57,90	Var	16	30

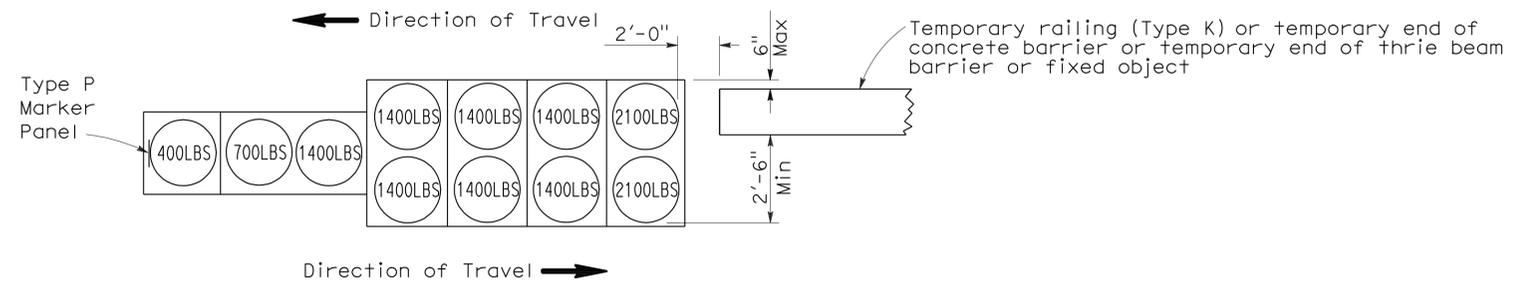
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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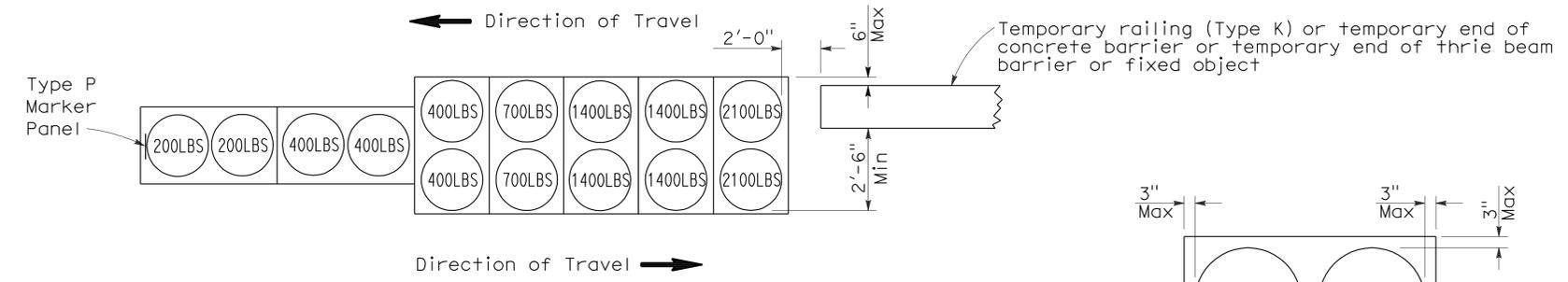
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-3-11



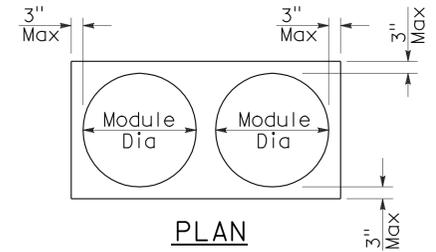
ARRAY 'TB11'

Approach speed less than 45 mph

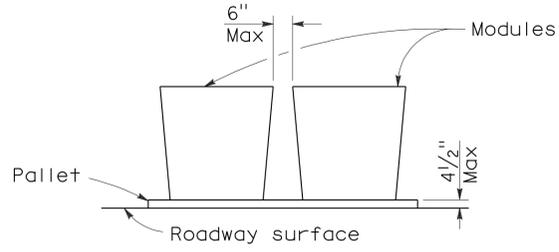


ARRAY 'TB14'

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

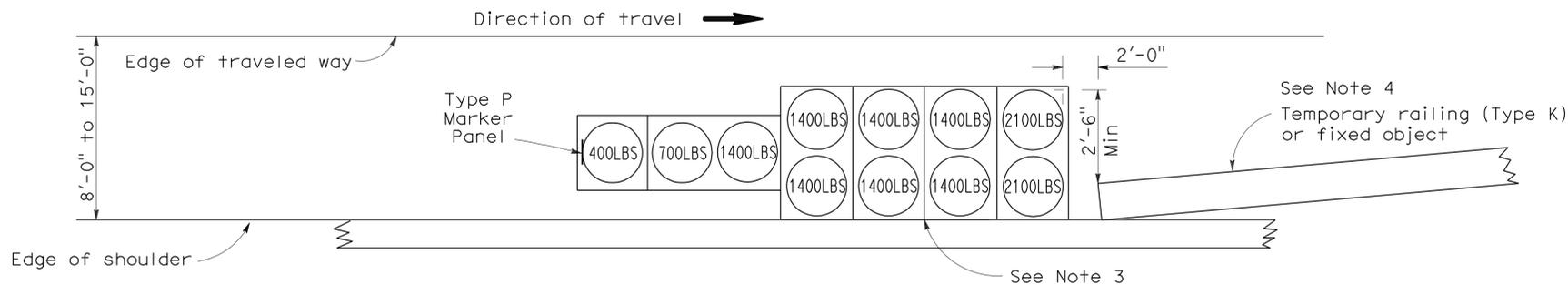
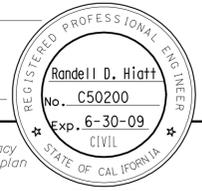
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57,90	Var	17	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

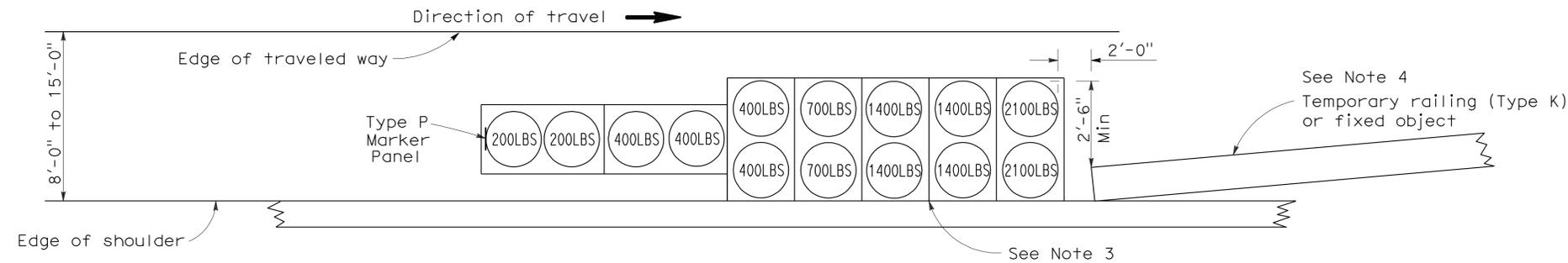
June 6, 2008
PLANS APPROVAL DATE

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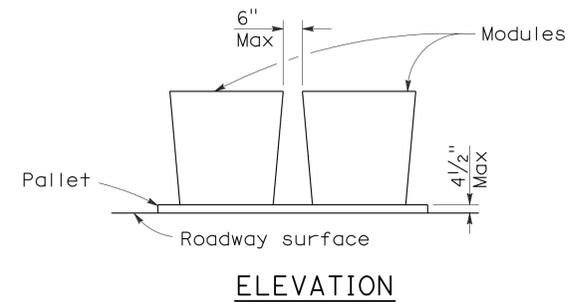
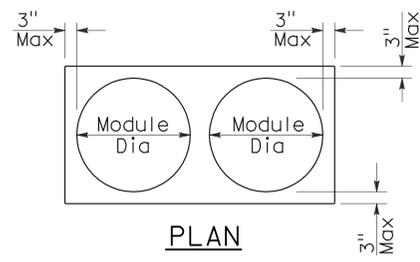
To accompany plans dated 1-3-11



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:

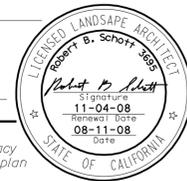
- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic 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

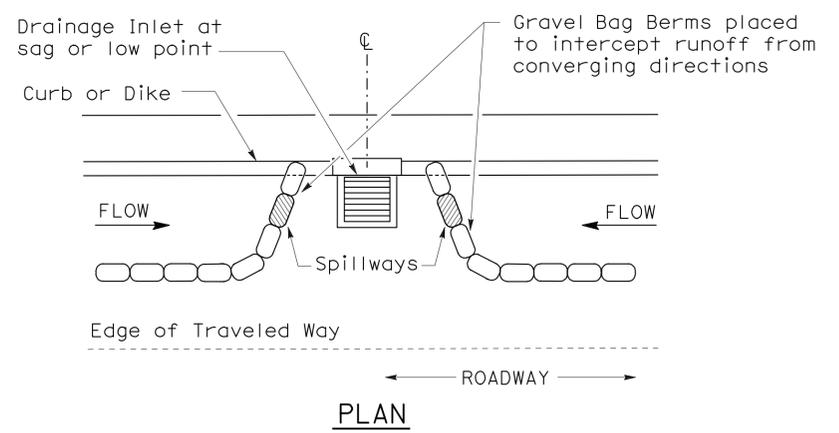


To accompany plans dated 1-3-11

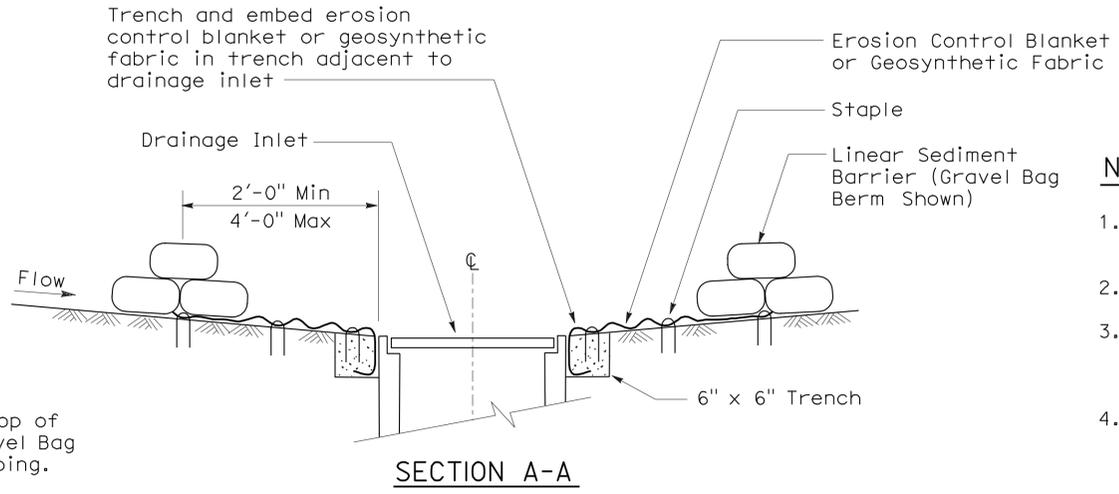
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



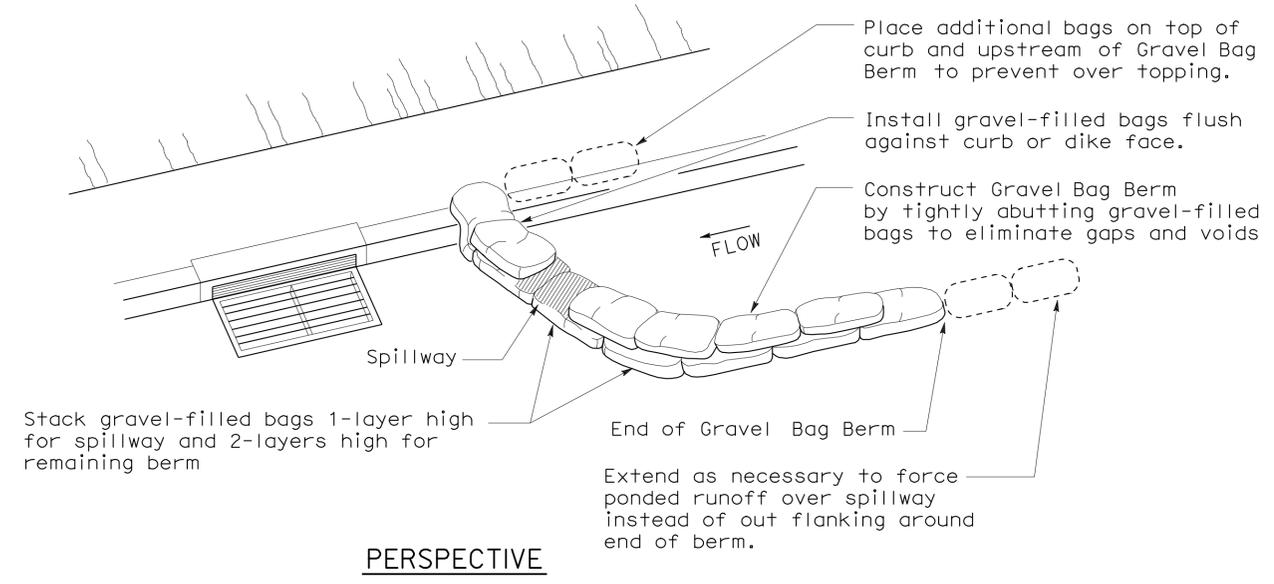
PLAN
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



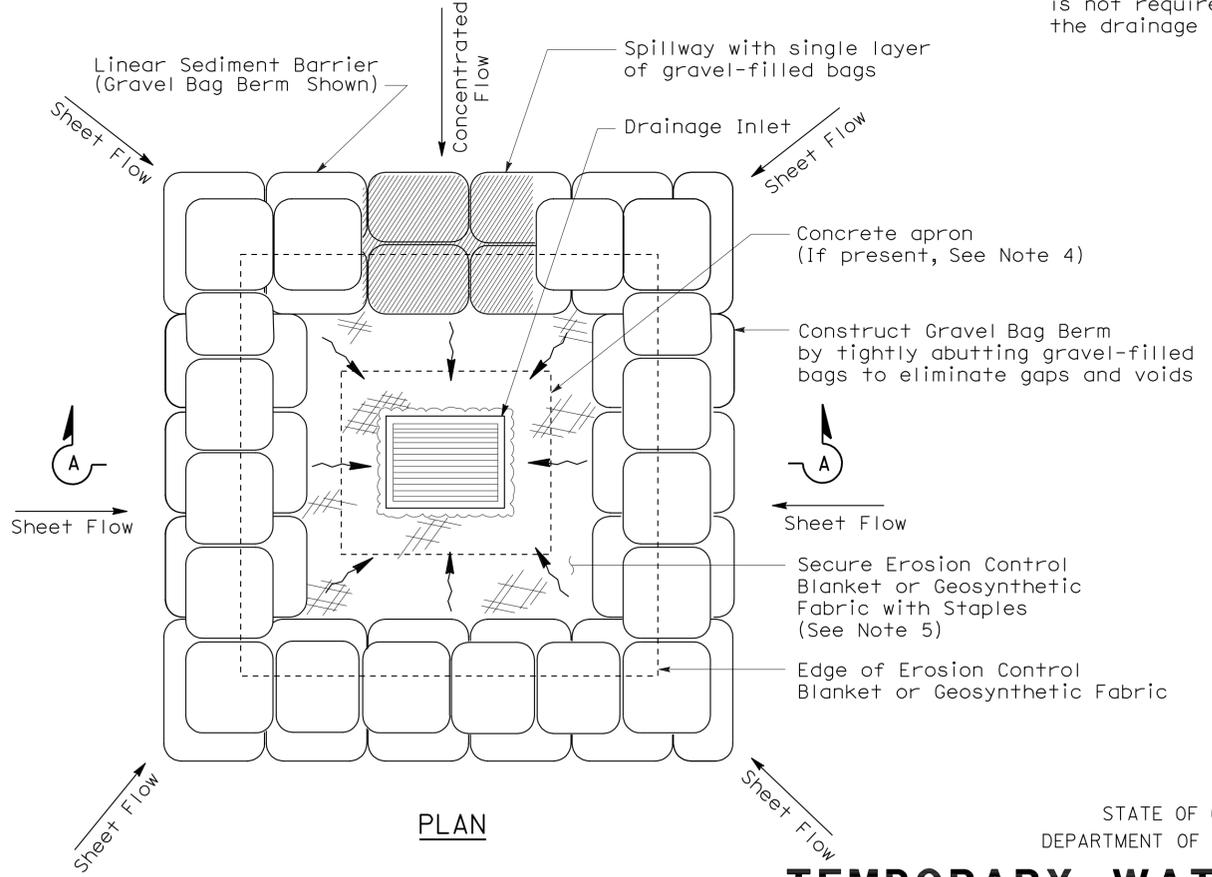
SECTION A-A

NOTES:

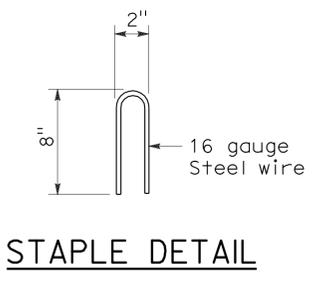
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



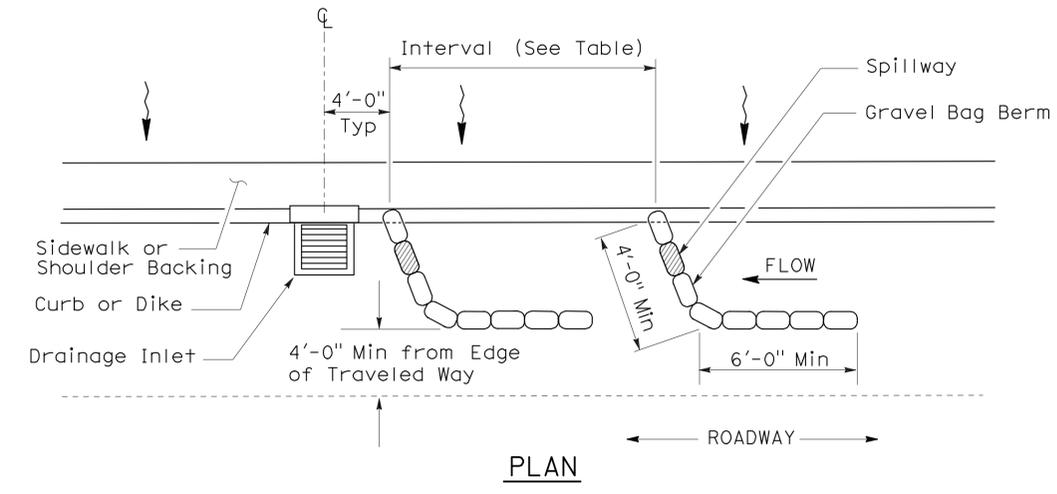
PERSPECTIVE



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T62

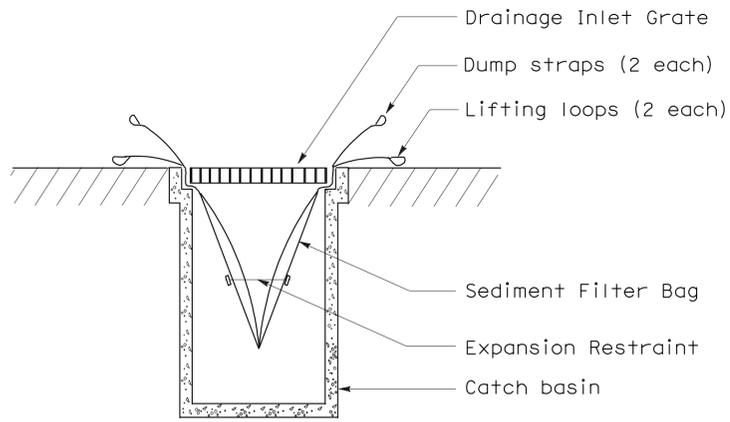
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57,90	Var	19	30

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

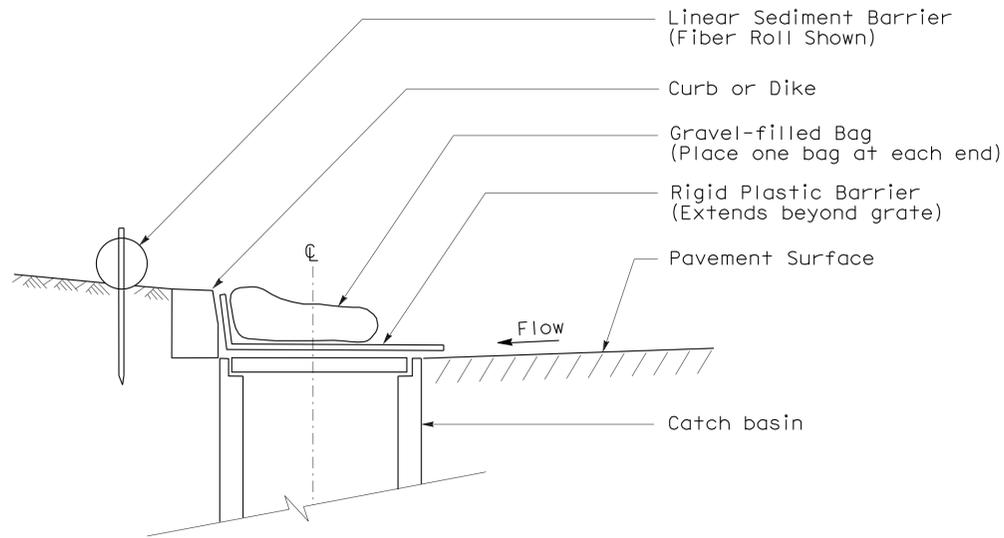
August 15, 2008
 PLANS APPROVAL DATE

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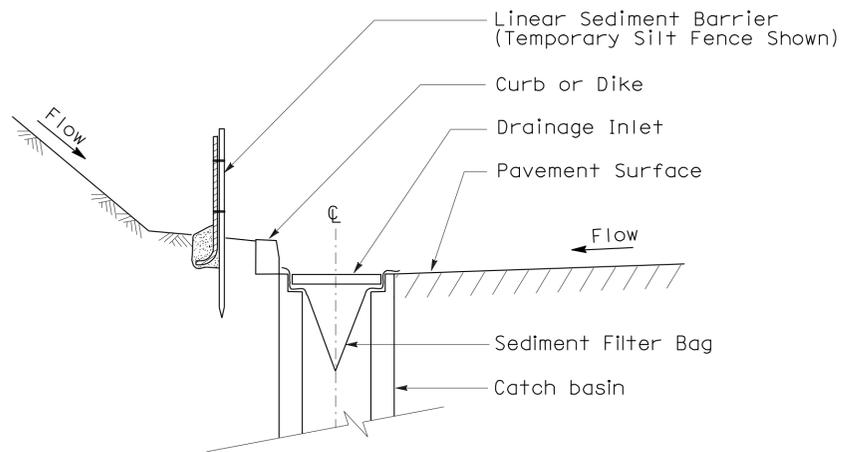
To accompany plans dated 1-3-11



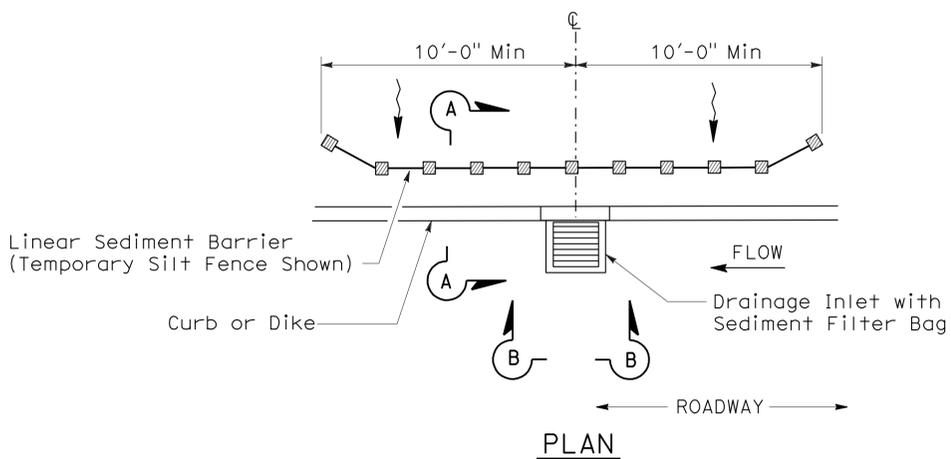
SECTION B-B
SEDIMENT FILTER BAG DETAIL



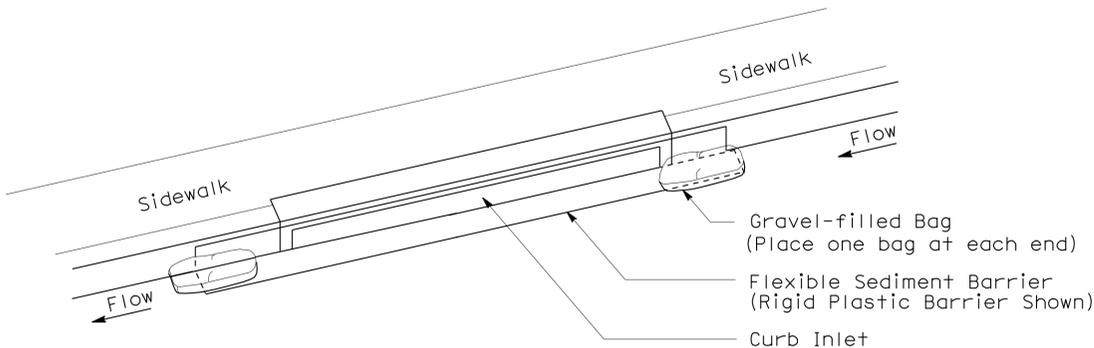
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)

- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION
CONTROL DETAILS
(TEMPORARY DRAINAGE
INLET PROTECTION)

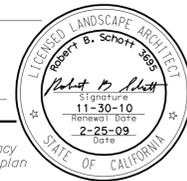
NO SCALE
 NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

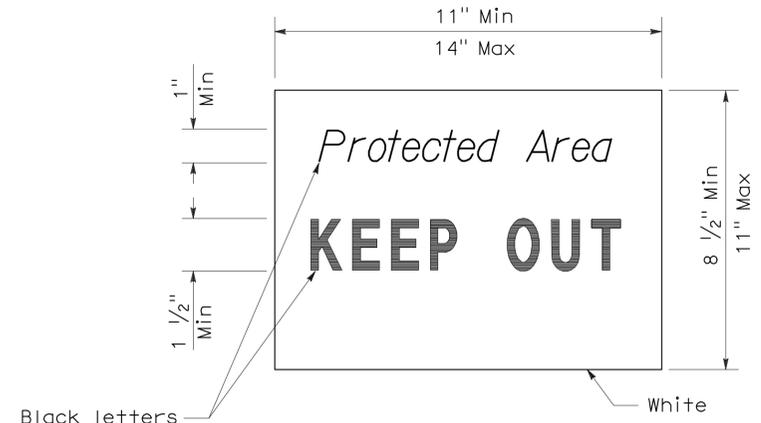
2006 NEW STANDARD PLAN NSP T64

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57,90	Var	20	30

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 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.



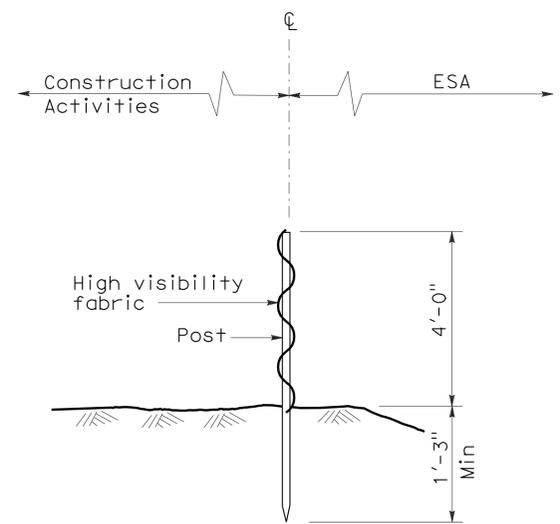
To accompany plans dated 1-3-11



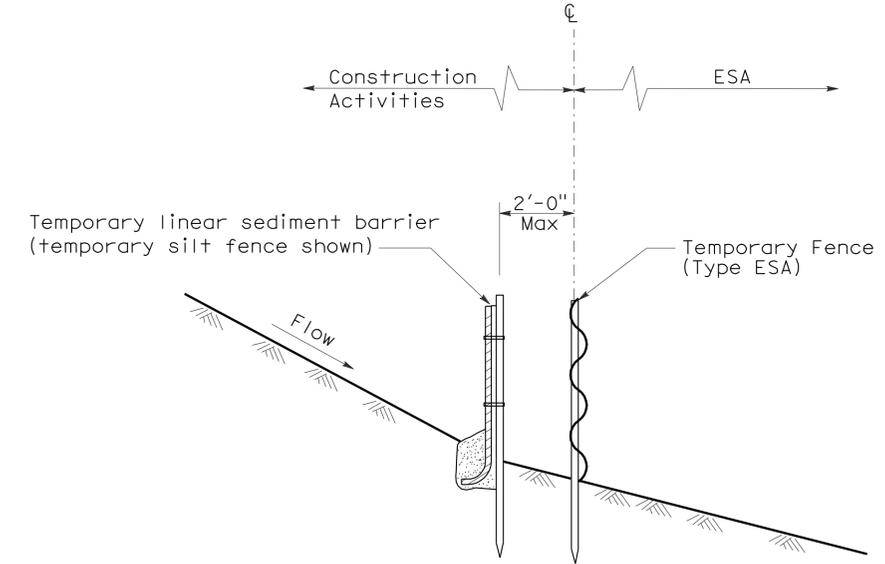
SIGN DETAIL

NOTE:

1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

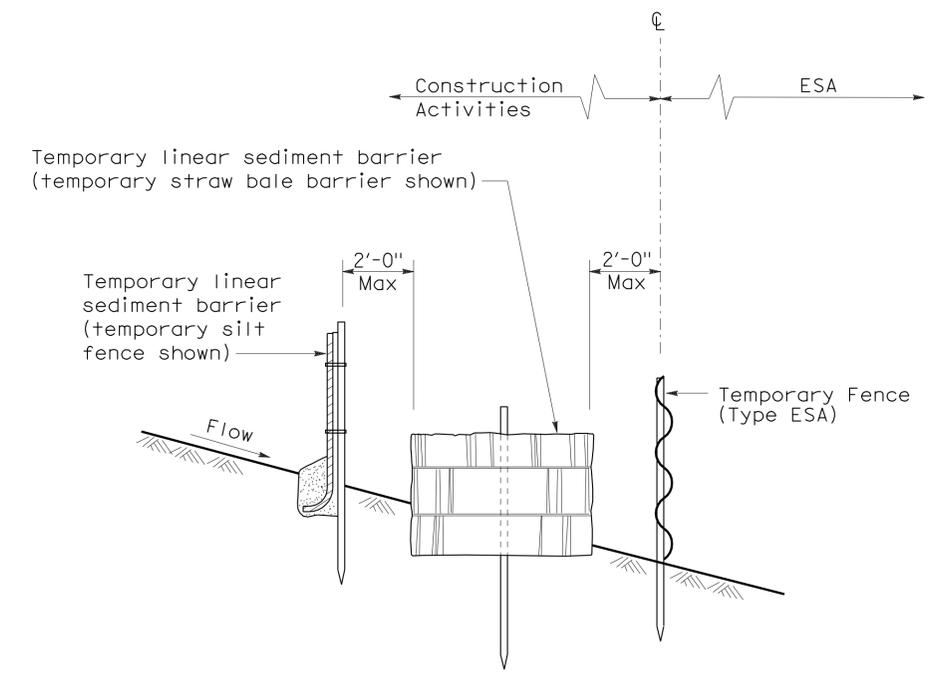


SECTION
TEMPORARY FENCE (TYPE ESA)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY LINEAR SEDIMENT BARRIER
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY SILT FENCE
AND TEMPORARY STRAW BALE BARRIER
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)

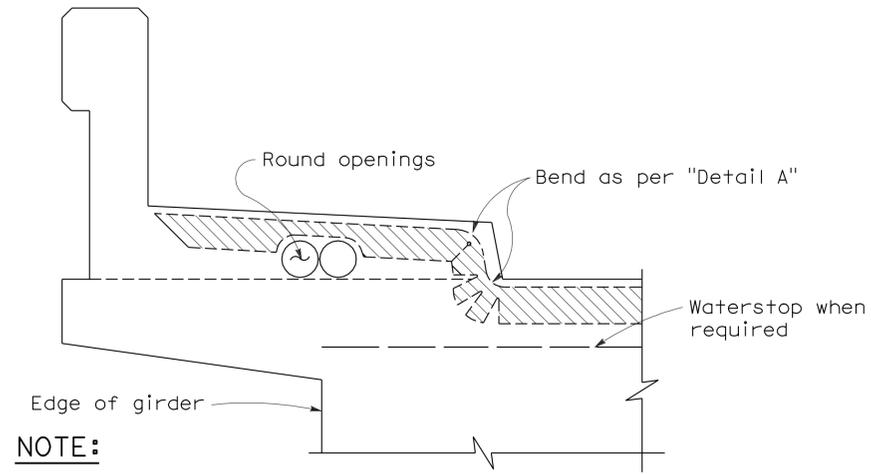
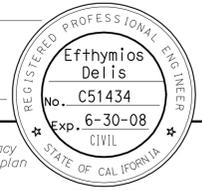
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS
[TEMPORARY FENCE (TYPE ESA)]

NO SCALE

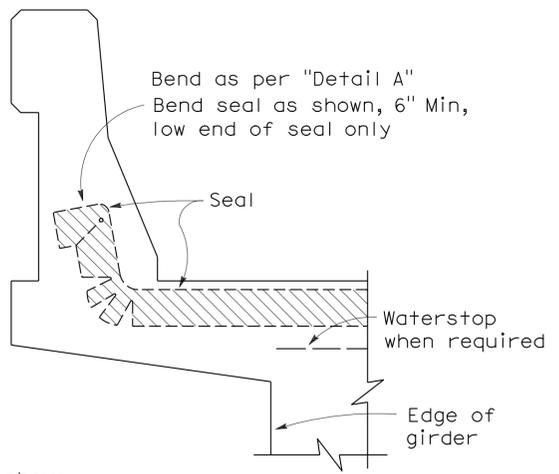
NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T65

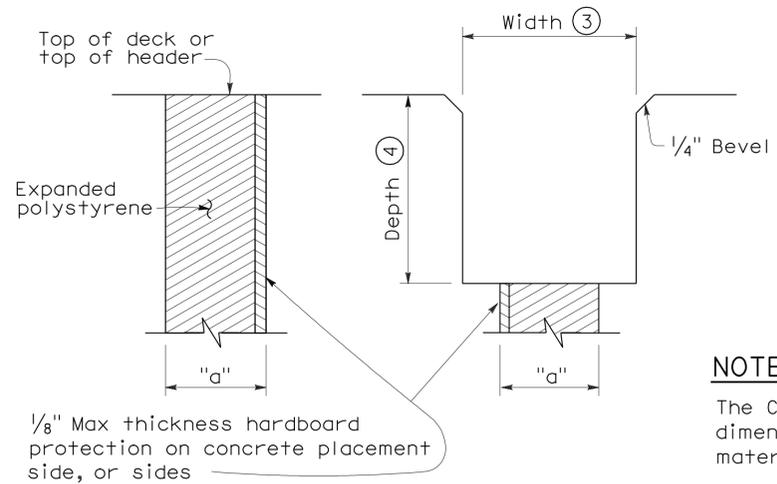


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



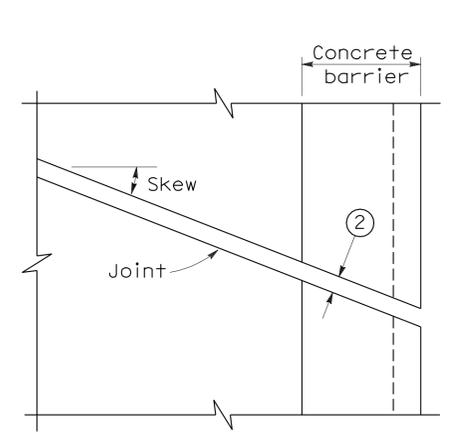
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

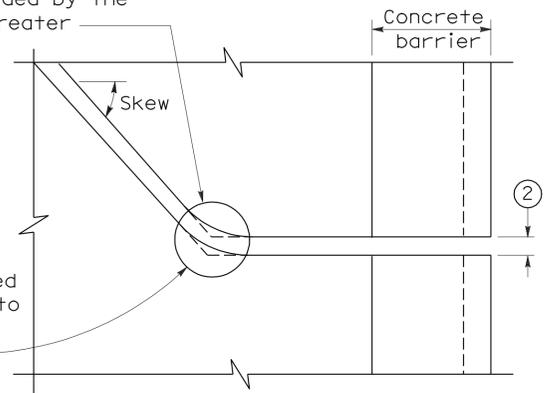
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



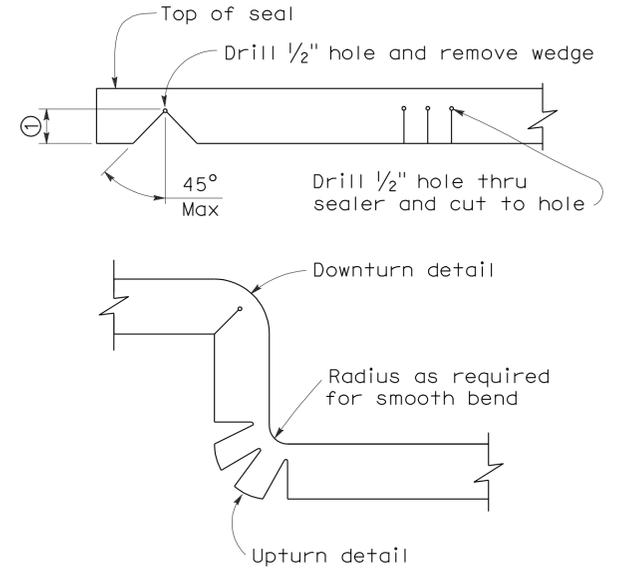
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ 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.

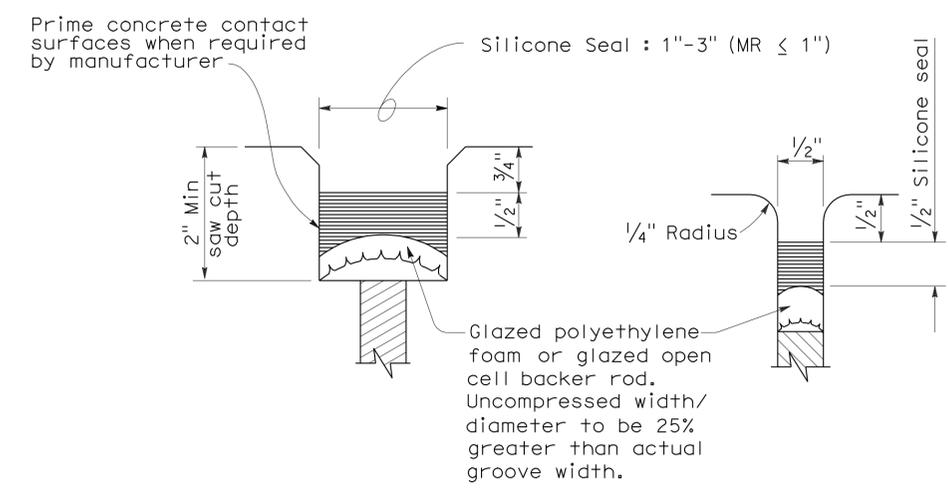


DETAIL A

- 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 (W₂) 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"

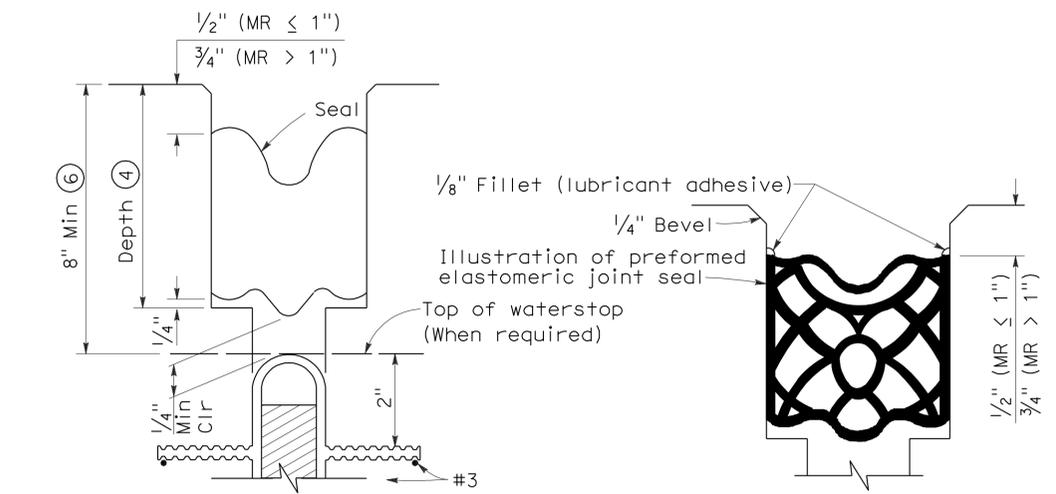


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



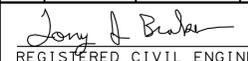
TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

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

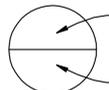
RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	22	30
			11-03-10		
REGISTERED CIVIL ENGINEER			DATE		
1-3-11			PLANS APPROVAL DATE		
					
<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>					

LEGEND:

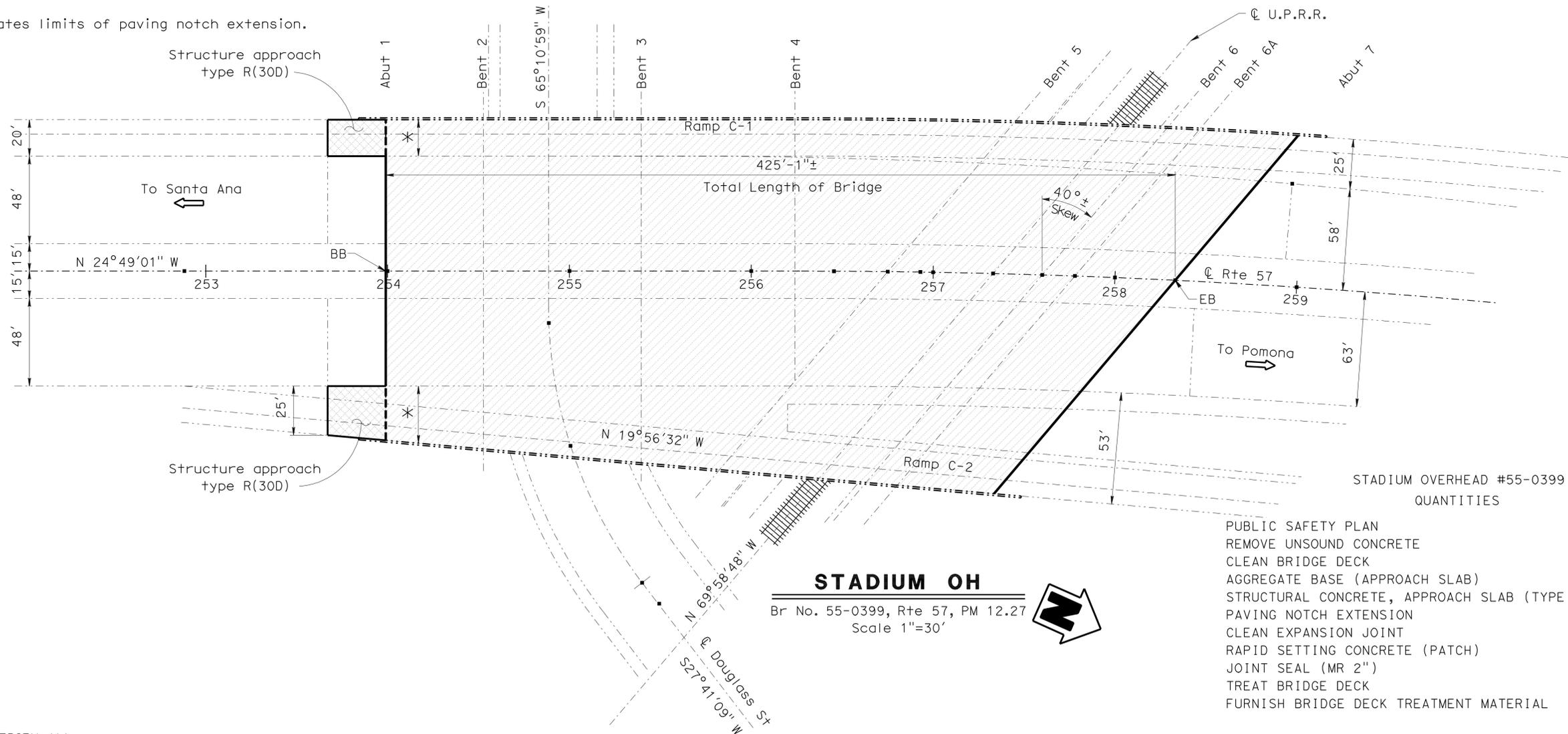
- Indicates existing.
- ➔ Indicates direction of traffic.
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
-  Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal.
-  Indicates limits of remove and replace structure approach slab.
- Indicates limits of place new joint seal at structure approach.
- * Indicates limits of paving notch extension.

STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
	STANDARD PLAN SHEET NO.
	DETAIL NO.

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	MISCELLANEOUS DETAILS NO. 1
8	MISCELLANEOUS DETAILS NO.2
9	STRUCTURE APPROACH TYPE R(30D)



STADIUM OH
 Br No. 55-0399, Rte 57, PM 12.27
 Scale 1"=30'

STADIUM OH QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	200 CF
REMOVE UNSOUND CONCRETE	79,000 SQFT
CLEAN BRIDGE DECK	5 CY
AGGREGATE BASE (APPROACH SLAB)	50 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	34 CF
PAVING NOTCH EXTENSION	386 LF
CLEAN EXPANSION JOINT	200 CF
RAPID SETTING CONCRETE (PATCH)	431 LF
JOINT SEAL (MR 2")	79,000 SQFT
TREAT BRIDGE DECK	990 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	

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

DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Tony Brake
				PLANS AND SPECS COMPARED Kevin Ellingson

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

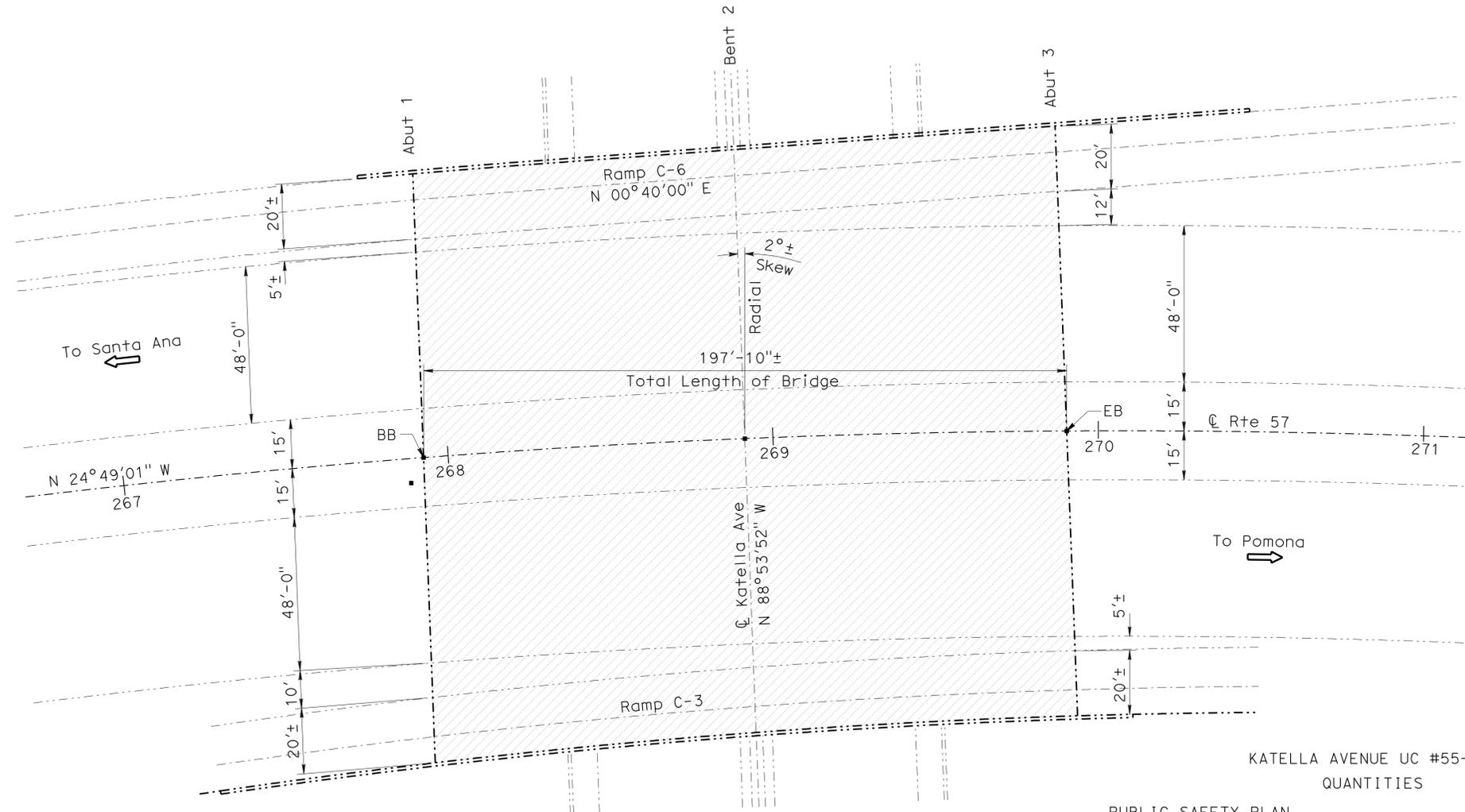
BRIDGE NO. Various
 POST MILE Varies
ROUTE 57,90 BRIDGES
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	23	30

Tony D. Brake 11-03-10
 REGISTERED CIVIL ENGINEER DATE
 1-3-11
 PLANS APPROVAL DATE
 Tony D. Brake
 No. C57863
 Exp. 06/30/12
 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.

LEGEND:

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- Indicates direction of traffic.
- ▨ 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.



KATELLA AVENUE UC →
 Br No. 55-0401, Rte 57, PM 12.54
 Scale 1"=20'

KATELLA AVENUE UC #55-0401
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REMOVE UNSOUND CONCRETE	90 CF
CLEAN BRIDGE DECK	36,000 SQFT
RAPID SETTING CONCRETE (PATCH)	90 CF
TREAT BRIDGE DECK	36,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	450 GAL

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Kevin Ellingson

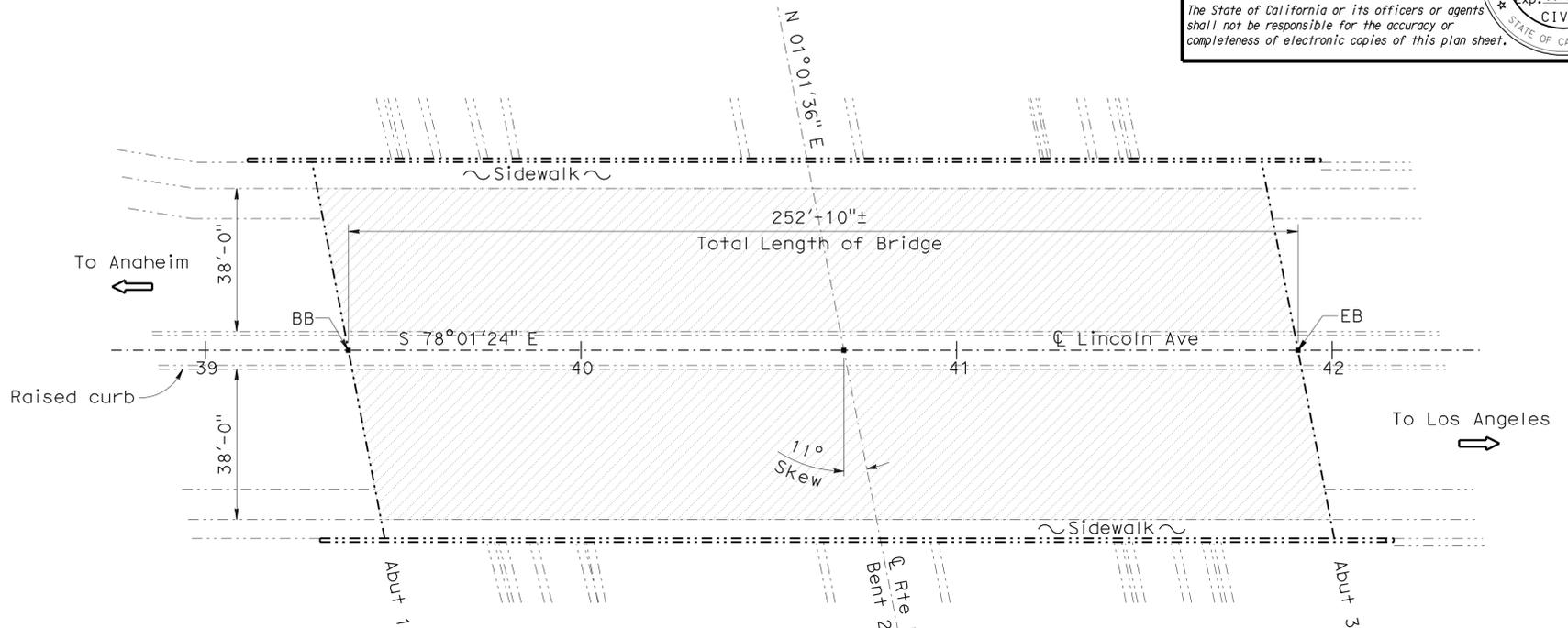
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various	ROUTE 57,90 BRIDGES GENERAL PLAN NO. 2
POST MILE	Varies	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	24	30
<i>Tony D. Brake</i> 11-03-10 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER Tony D. Brake No. C57863 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA		
1-3-11 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>					

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ 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.

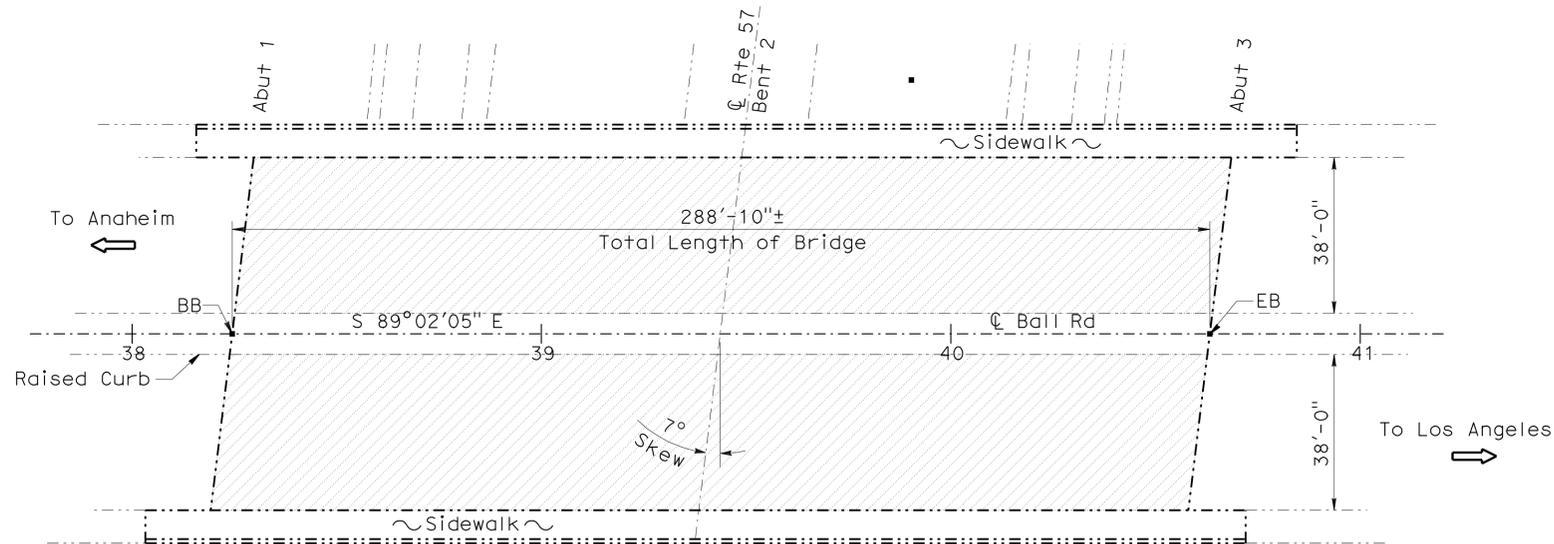


LINCOLN AVENUE OC

Br No. 55-0525, Rte 57, PM 14.78
Scale 1"=20'

LINCOLN AVENUE OC #55-0525
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REMOVE UNSOUND CONCRETE	50 CF
CLEAN BRIDGE DECK	19,215 SQFT
RAPID SETTING CONCRETE (PATCH)	50 CF
TREAT BRIDGE DECK	19,215 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	240 GAL



BALL ROAD OC

Br No. 55-0524, Rte 57, PM 13.42
Scale 1"=20'

PUBLIC SAFETY PLAN	LUMP SUM
REMOVE UNSOUND CONCRETE	55 CF
CLEAN BRIDGE DECK	21,950 SQFT
RAPID SETTING CONCRETE (PATCH)	55 CF
TREAT BRIDGE DECK	21,950 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	275 GAL

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Kevin Ellingson

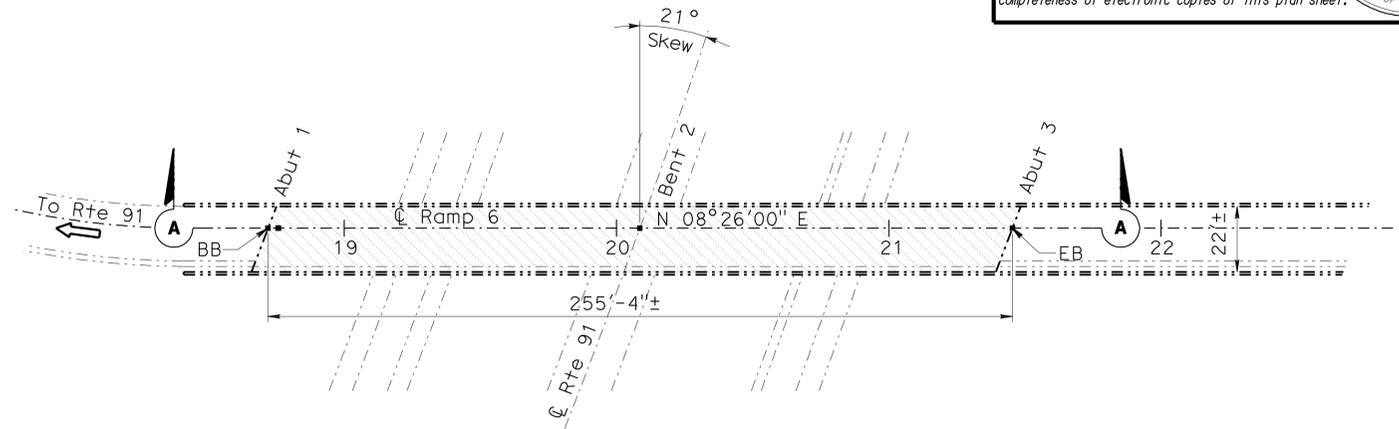
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE

ROUTE 57,90 BRIDGES GENERAL PLAN NO. 3	
REVISION DATES	SHEET 03 OF 09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	25	30
<i>Tony D. Brake</i> 11-03-10 REGISTERED CIVIL ENGINEER DATE					
1-3-11 PLANS APPROVAL DATE					
<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>					

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- 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, clean expansion joint and placement of new joint seal.
- Indicates limits of prepare concrete bridge deck surface, furnish and place new minimum 3/4" depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete.
- Indicates limits of remove and replace structure approach slab.
- Indicates limits of place new joint seal at structure approach.
- * Indicates limits of paving notch extension.



S57-E91/91 CONNECTOR SEPARATION

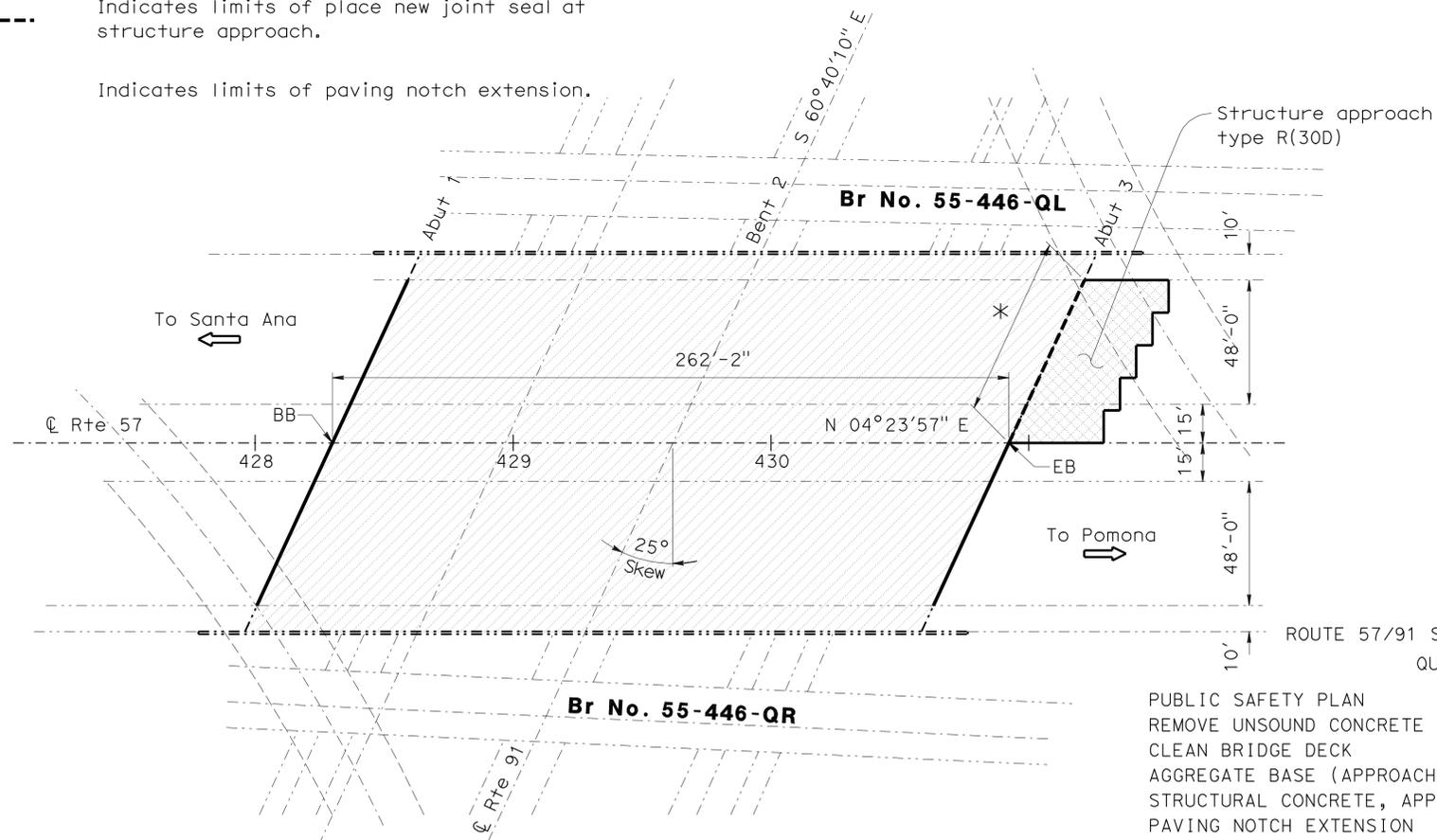
Br No. 55-0446F, Rte 57, PM 15.59

Scale 1"=30'

S57-E91/91 CONNECTOR SEPARATION #55-0446F

QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
REMOVE CONCRETE DECK SURFACE	1,320 SQFT
REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,620 SQFT
RAPID SETTING CONCRETE (PATCH)	15 CF
FURNISH POLYESTER CONCRETE OVERLAY	350 CF
PLACE POLYESTER CONCRETE OVERLAY	5,620 SQFT



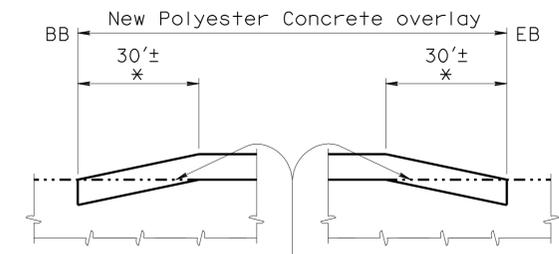
ROUTE 57/91 SEPARATION

Br No. 55-0446, Rte 57, PM 15.58

Scale 1"=30'

QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
REMOVE UNSOUND CONCRETE	100 CF
CLEAN BRIDGE DECK	38,280 SQFT
AGGREGATE BASE (APPROACH SLAB)	8 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	80 CY
PAVING NOTCH EXTENSION	52 CF
CLEAN EXPANSION JOINT	200 LF
RAPID SETTING CONCRETE (PATCH)	100 CF
JOINT SEAL (MR 1/2")	278 LF
TREAT BRIDGE DECK	38,280 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	480 GAL



SECTION A-A

No Scale

* Limits of remove existing concrete surfacing 0 inch min to 3/4 inch maximum full width. Grind flush to conform with existing profile.

NOTE:
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 TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA	DIVISION OF MAINTENANCE	BRIDGE NO.
DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE
		Varies

ROUTE 57,90 BRIDGES	
GENERAL PLAN NO. 4	
REVISION DATES	SHEET 04 OF 09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	26	30

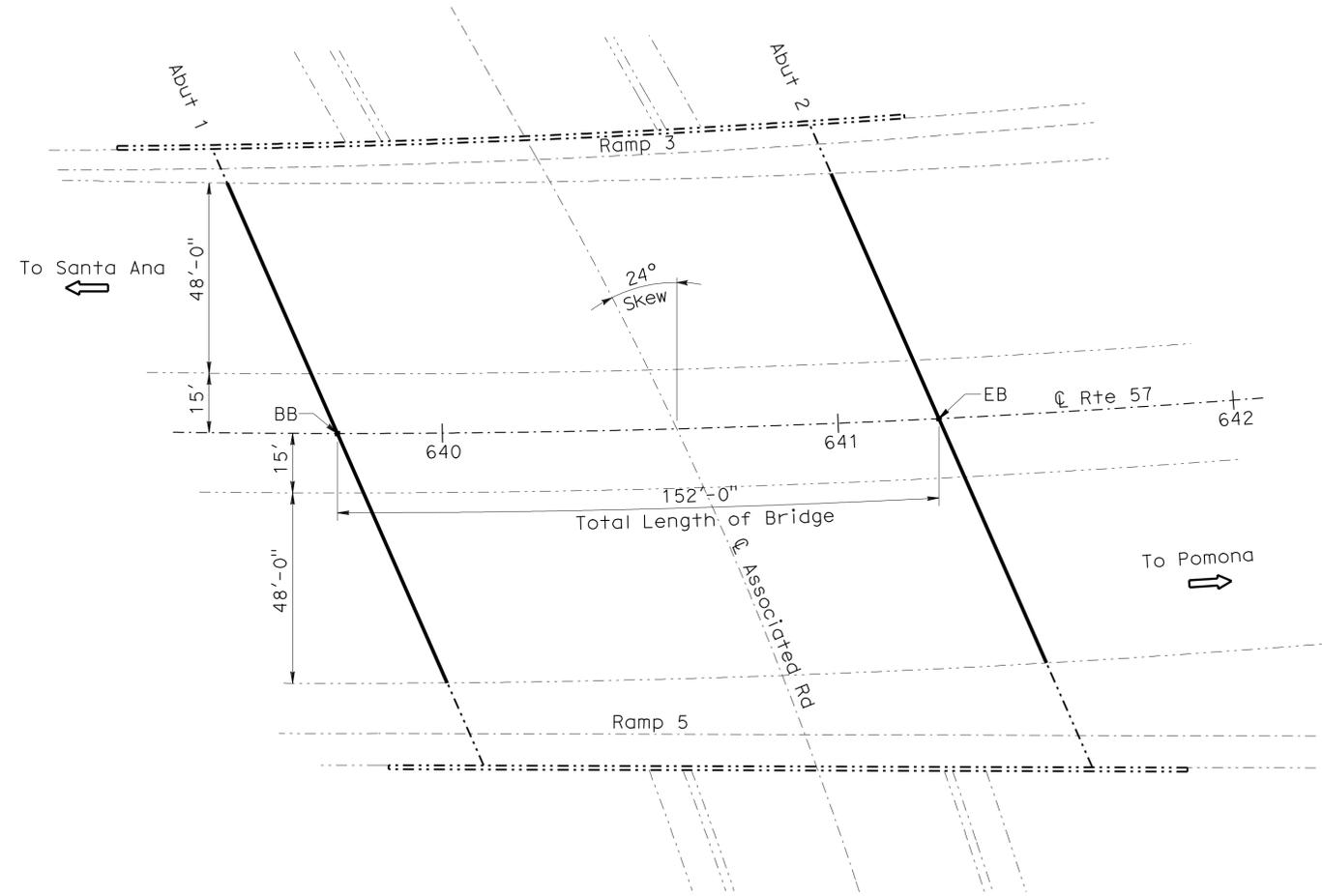
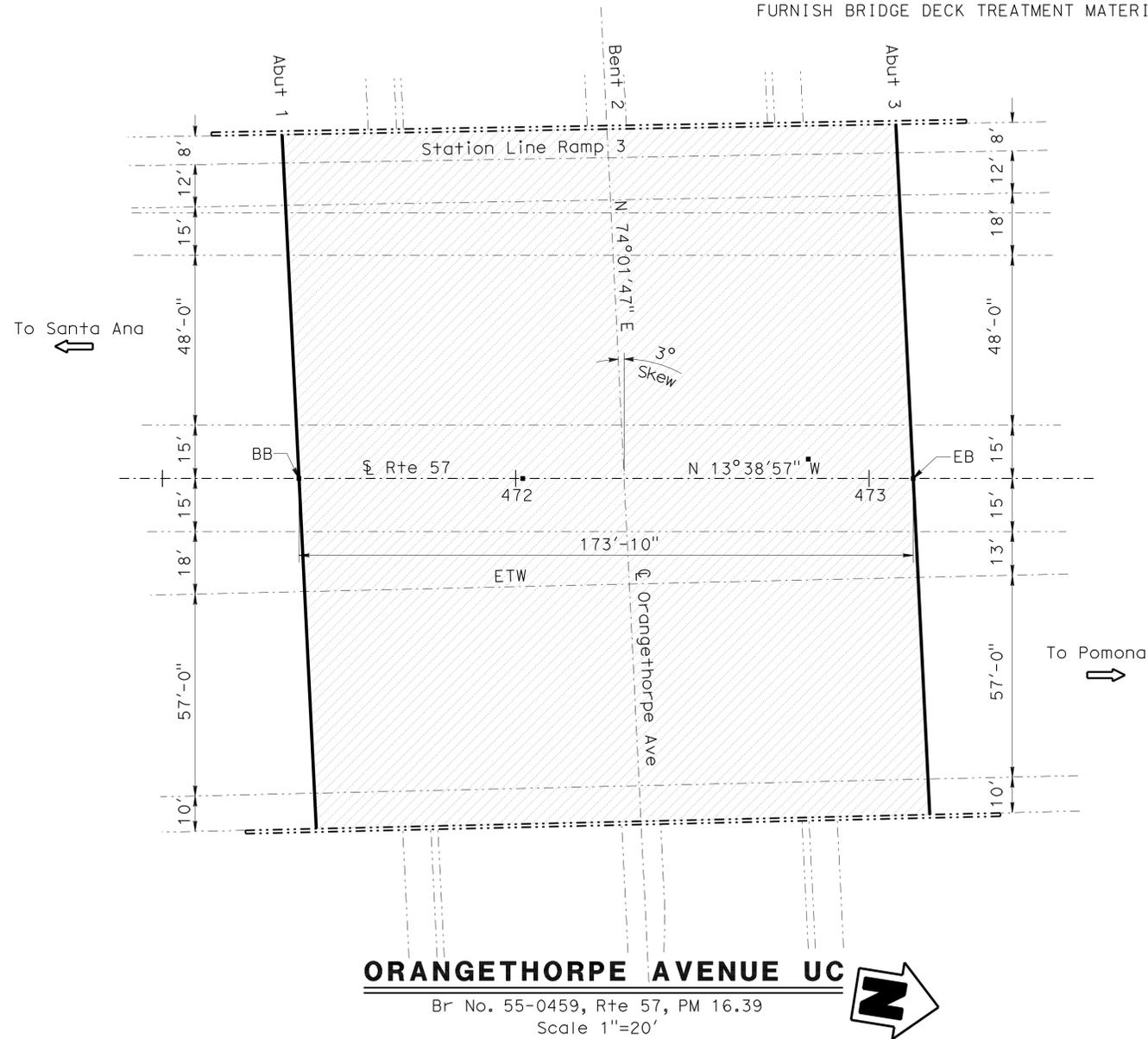
Tony D. Brake 11-03-10
 REGISTERED CIVIL ENGINEER DATE
 1-3-11
 PLANS APPROVAL DATE
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LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ 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, clean expansion joint and placement of new joint seal.

ORANGETHORPE AVENUE UC #55-0459
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REMOVE UNSOUND CONCRETE	90 CF
CLEAN BRIDGE DECK	34,245 SQFT
CLEAN EXPANSION JOINT	394 LF
RAPID SETTING CONCRETE (PATCH)	90 CF
JOINT SEAL (MR 1/2")	394 LF
TREAT BRIDGE DECK	34,245 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	428 GAL



ASSOCIATED ROAD UC

Br No. 55-0466, Rte 57, PM 19.58
Scale 1"=20'
ASSOCIATED ROAD UC #55-0466
QUANTITIES

REMOVE UNSOUND CONCRETE	1 CF
CLEAN EXPANSION JOINT	276 LF
RAPID SETTING CONCRETE (PATCH)	1 CF
JOINT SEAL (MR 1/2")	276 LF

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTE 57,90 BRIDGES
GENERAL PLAN NO. 5**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 12
EA 0L1601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES
08-18-10 09-16-10 09-27-10 10-13-10 11-01-10 11-03-10

SHEET 05 OF 09

USERNAME => HRT1GHT DATE PLOTTED => 07-JAN-2011 TIME PLOTTED => 13:47

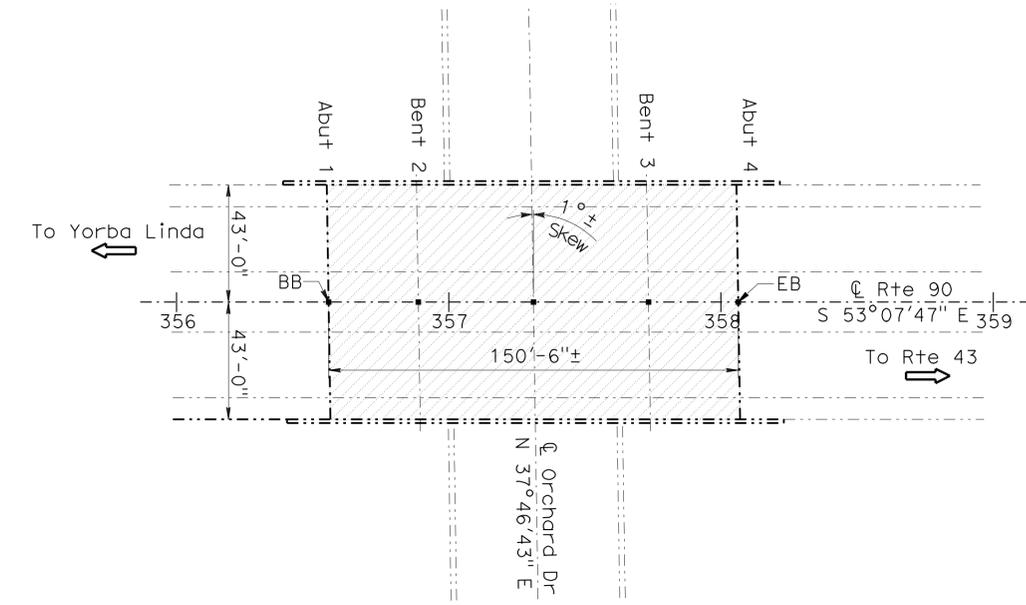
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	27	30
<i>Tony D. Brake</i> 11-03-10 REGISTERED CIVIL ENGINEER DATE					
1-3-11			PLANS APPROVAL DATE		
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

LEGEND:

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ROUTE 90/57 SEPARATION #55-0469
QUANTITIES

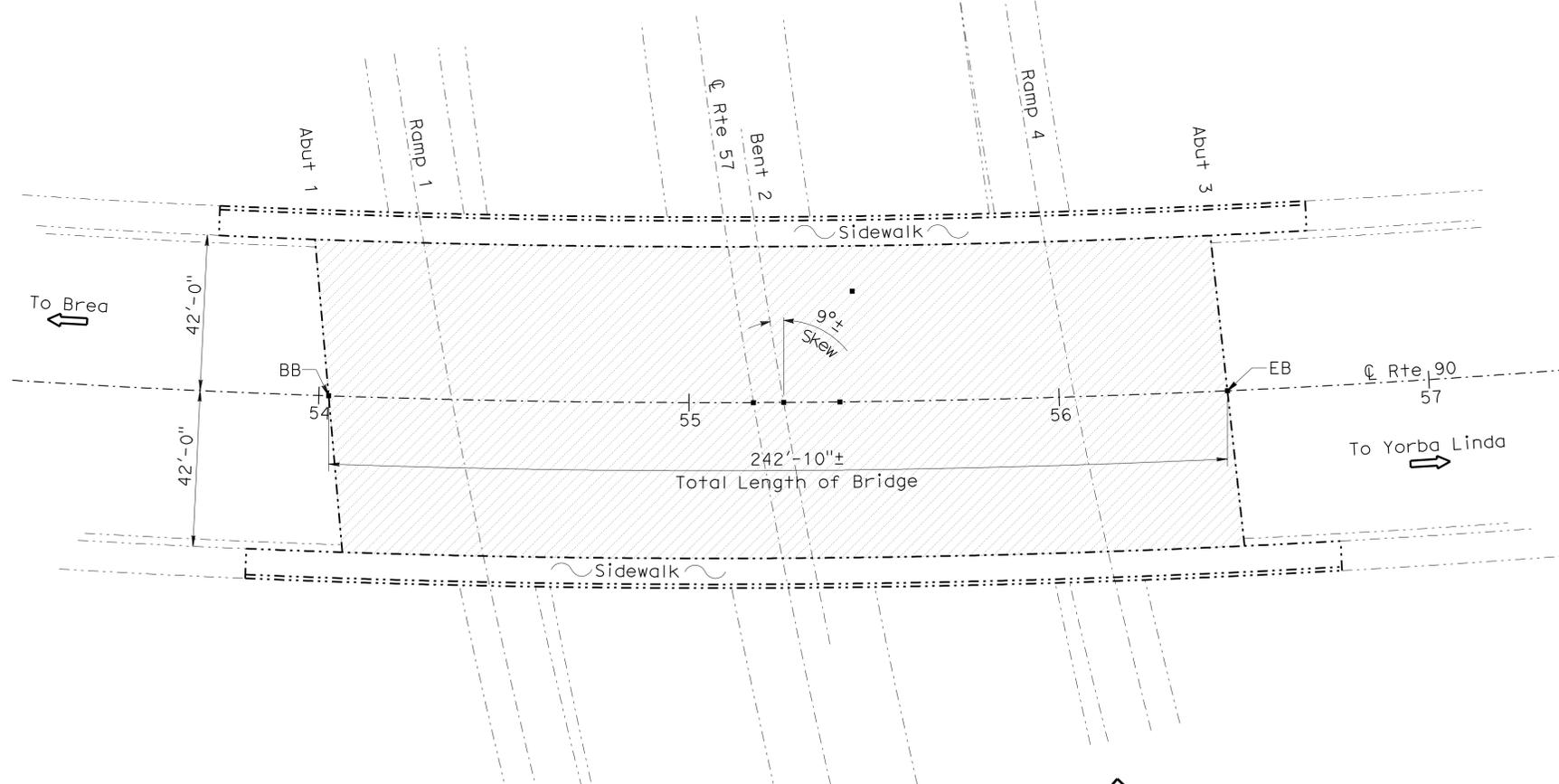
PUBLIC SAFETY PLAN	LUMP SUM
REMOVE UNSOUND CONCRETE	50 CF
CLEAN BRIDGE DECK	20,400 SQFT
RAPID SETTING CONCRETE (PATCH)	50 CF
TREAT BRIDGE DECK	20,400 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	255 GAL



KELLOGG DRIVE UC

Br No. 55-0339, Rte 90, PM 11.15
No Scale
KELLOGG DRIVE UC #55-0339
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REMOVE UNSOUND CONCRETE	30 CF
CLEAN BRIDGE DECK	12,945 SQFT
RAPID SETTING CONCRETE (PATCH)	30 CF
TREAT BRIDGE DECK	12,945 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	162 GAL



ROUTE 90/57 SEPARATION

Br No. 55-0469, Rte 90, PM R5.43
Scale 1"=20'

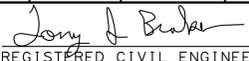
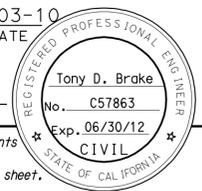
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		Varies

ROUTE 57,90 BRIDGES GENERAL PLAN NO. 6	
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 08-18-10 09-16-10 09-27-10 10-13-10 11-01-10 11-03-10
SHEET 06	OF 09

USERNAME => HRT1GHT DATE PLOTTED => 07-JAN-2011 TIME PLOTTED => 13:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	28	30
			11-03-10	DATE	
REGISTERED CIVIL ENGINEER					
PLANS APPROVAL DATE			1-3-11		
					
<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>					

JOINT SEAL TABLE

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)
55-0399	Abut 1	PN	2	171	NO	6	3	6	5
	Abut 7	PN	2	260	NO	6	3	6	5
55-0446	Abut 1	PN	1/2	139	NO	6	3	6	5
	Abut 3	PN	1/2	139	NO	6	3	6	5
55-0459	Abut 1	PN	1/2	198	NO	6	3	6	5
	Abut 3	PN	1/2	196	NO	6	3	6	5
55-0466	Abut 1	PN	1/2	138	NO	6	3	6	5
	Abut 2	PN	1/2	138	NO	6	3	6	5

NOTES:

The following notes apply to JOINT SEAL TYPE A:

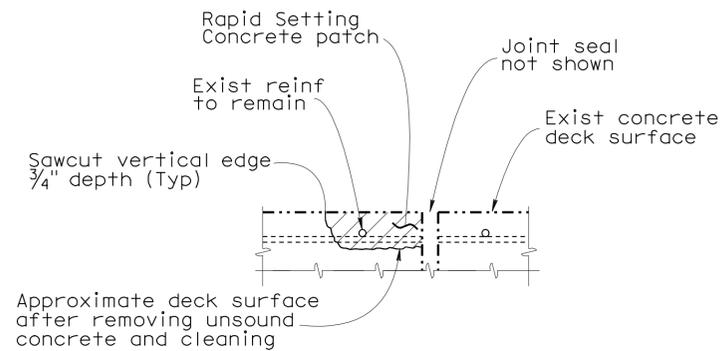
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

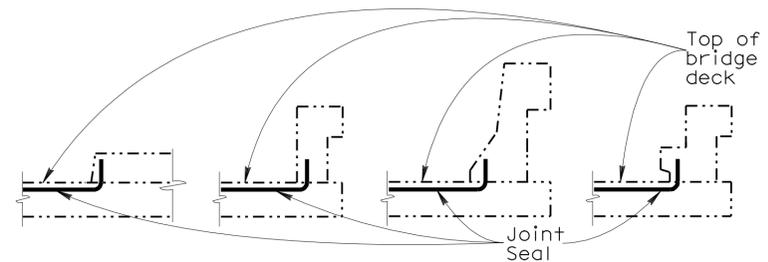
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
- Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see RSP B6-21 sheet.



JOINT SPALL REPAIR DETAIL

Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

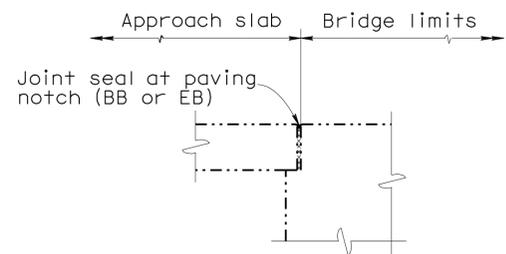


BARRIER RAIL

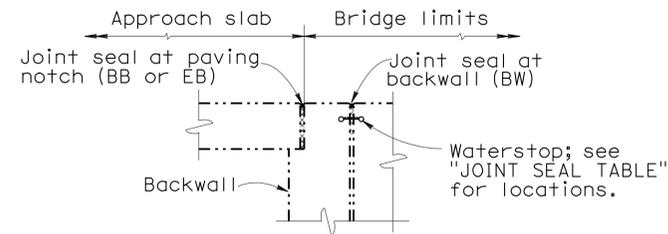
JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

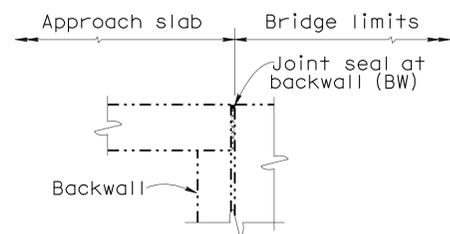
For use only where deck joint matches the sidewalk, curb or barrier rail joint.



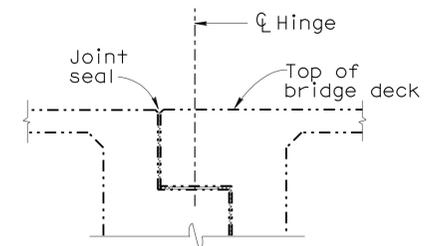
DIAPHRAGM ABUTMENT



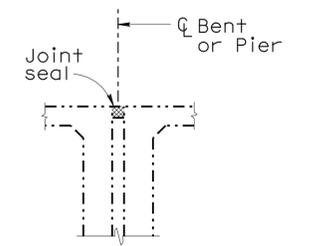
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

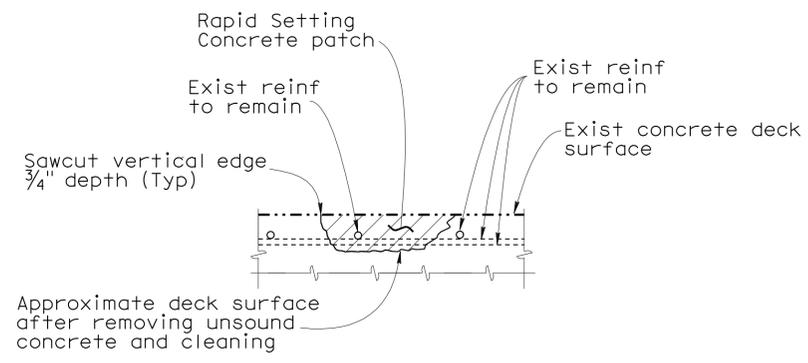
NO SCALE

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

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 57,90 BRIDGES					
	DETAILS	BY Clayton Tom	CHECKED Tony Brake			POST MILE			Varies	MISCELLANEOUS DETAILS NO. 1			
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel			REVISION DATES					SHEET 07 OF 09		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 12 EA 0L1601	<table border="1"> <tr> <td>09-02-10</td> <td>09-16-10</td> <td>09-27-10</td> <td>10-18-10</td> <td>11-01-10</td> <td>11-03-10</td> </tr> </table>			09-02-10	09-16-10	09-27-10	10-18-10	11-01-10	11-03-10
09-02-10	09-16-10	09-27-10	10-18-10	11-01-10	11-03-10								

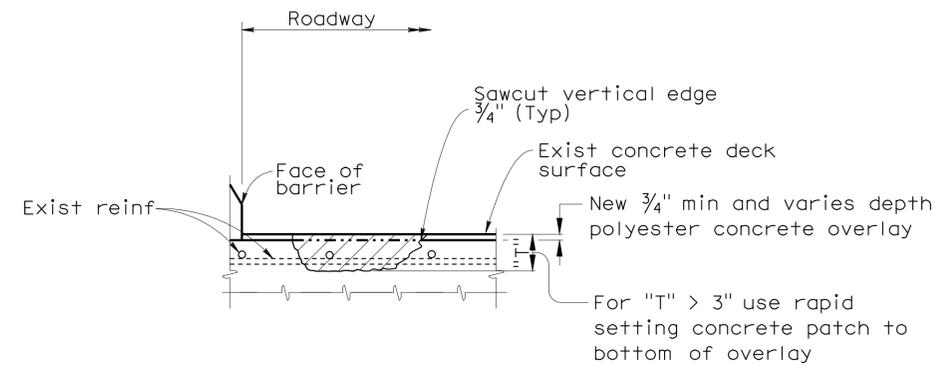
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	57,90	Var	29	30
Tony D. Brake 11-03-10 REGISTERED CIVIL ENGINEER DATE					
1-3-11 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
Stadium OH	55-0399	1	3
Katella Avenue UC	55-0401	1	3
Ball Road OC	55-0524	1	3
Lincoln Avenue OC	55-0525	1	3
Route 57/91 Separation	55-0446	1	3
S57-E91/91 Conn Sep	55-0446F	1	3
Orangethorpe Avenue UC	55-0459	1	3
Route 90/57 Separation	55-0469	1	3
Kellogg Drive UC	55-0339	1	3



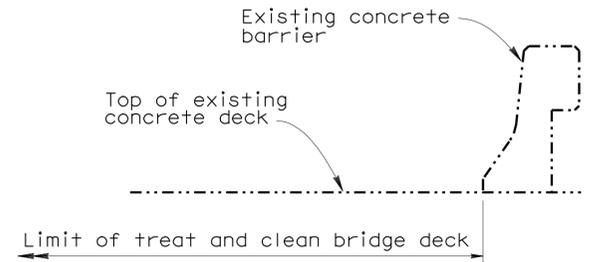
DECK DAMAGE REPAIR DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

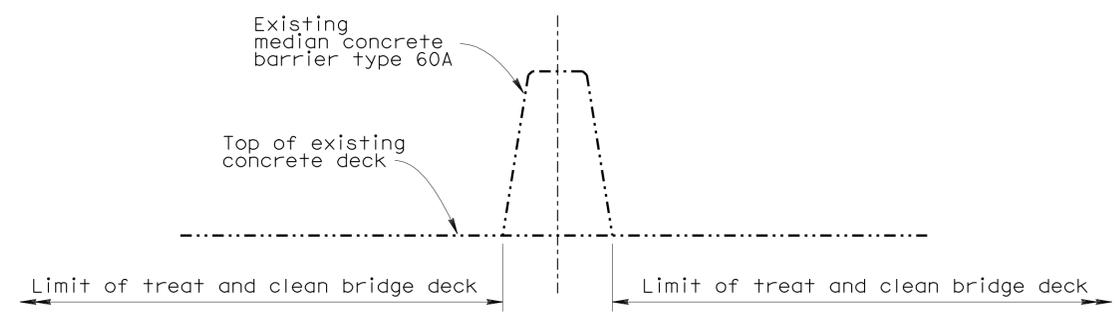


DECK OVERLAY DETAIL (Br 55-0446F)

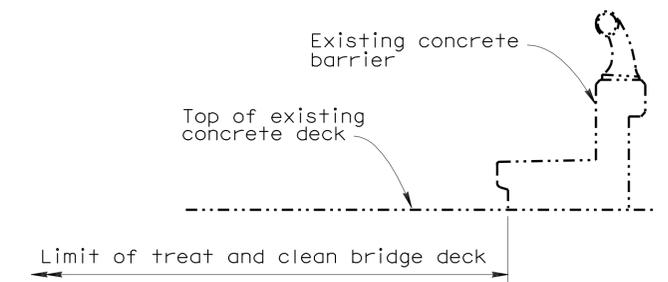
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.



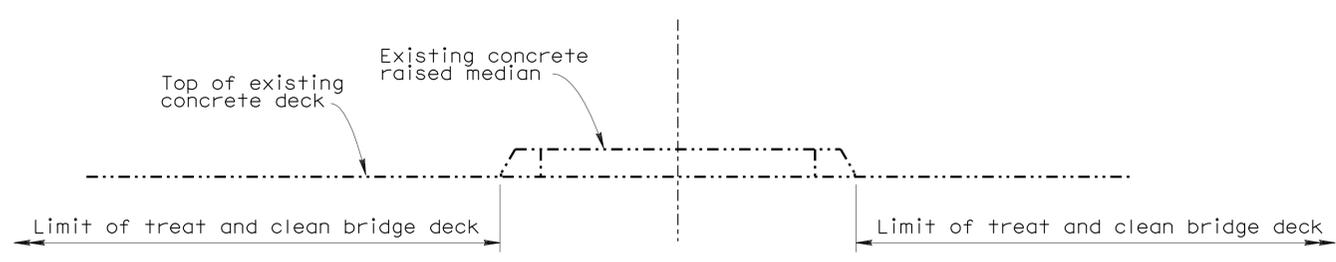
EOD BARRIER



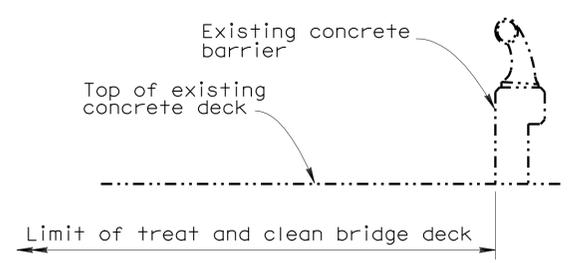
MEDIAN BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

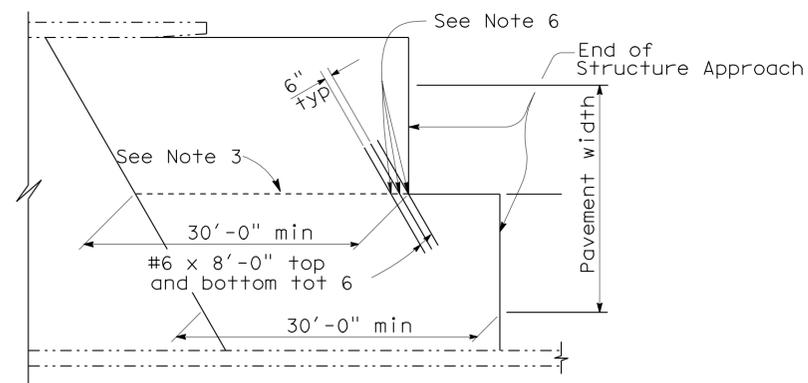
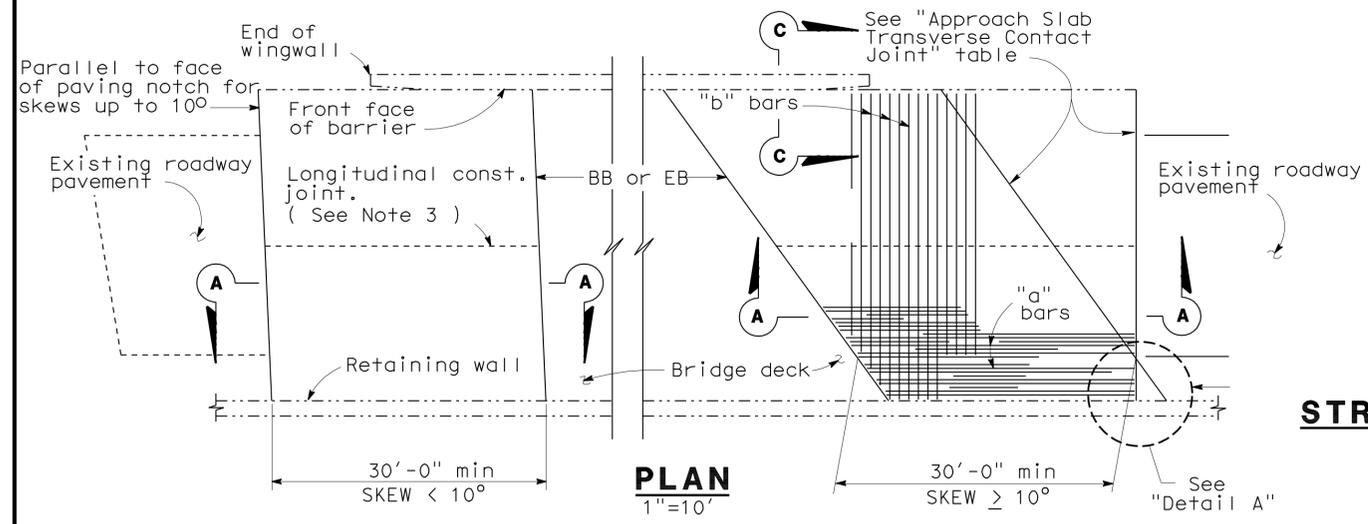
NO SCALE

DECK REPAIR NOTES:

- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is the responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
- The saw cut depth shall not exceed 3/4 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

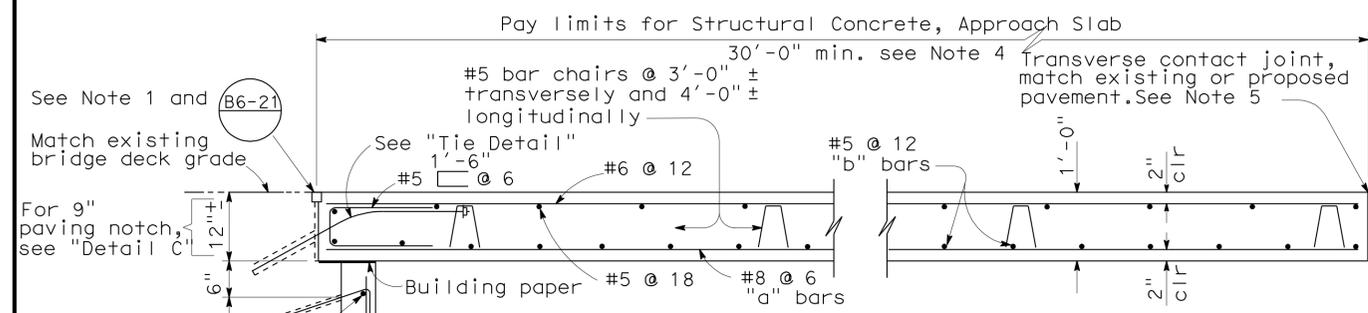
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 57,90 BRIDGES MISCELLANEOUS DETAILS NO. 2					
	DETAILS	BY Clayton Tom	CHECKED Tony Brake			POST MILE			Varies				
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel			REVISION DATES							
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 12 EA 0L1601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	09-02-10	09-16-10	09-27-10	10-13-10	11-01-10	11-03-10	SHEET 08 OF 09

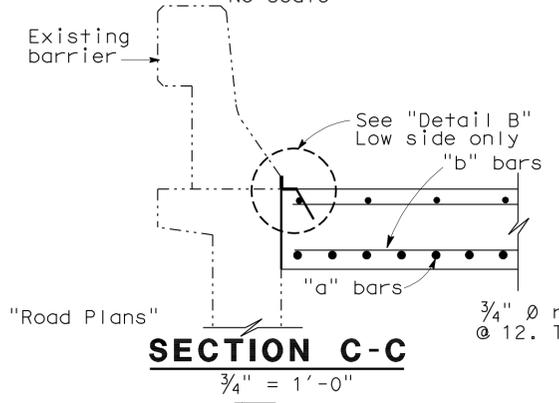


STRUCTURE APPROACH - END STAGGER DETAIL
No Scale

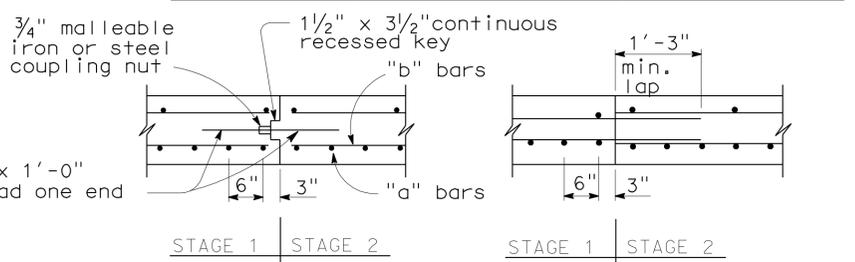
APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)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



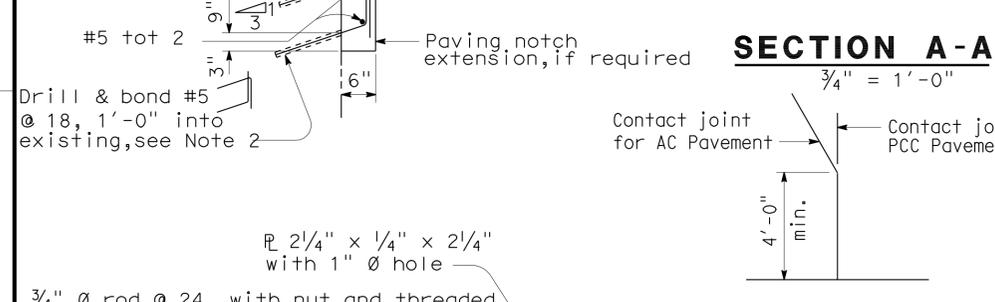
SECTION A-A
3/4" = 1'-0"



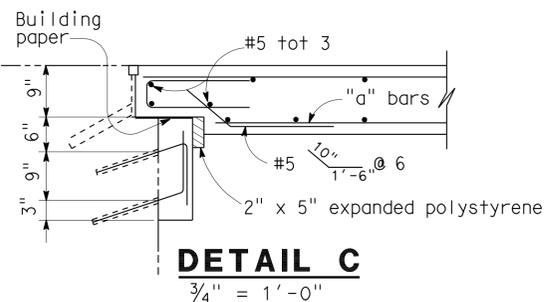
SECTION C-C
3/4" = 1'-0"



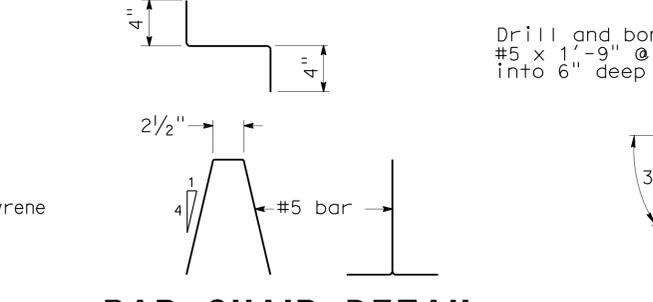
LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0"



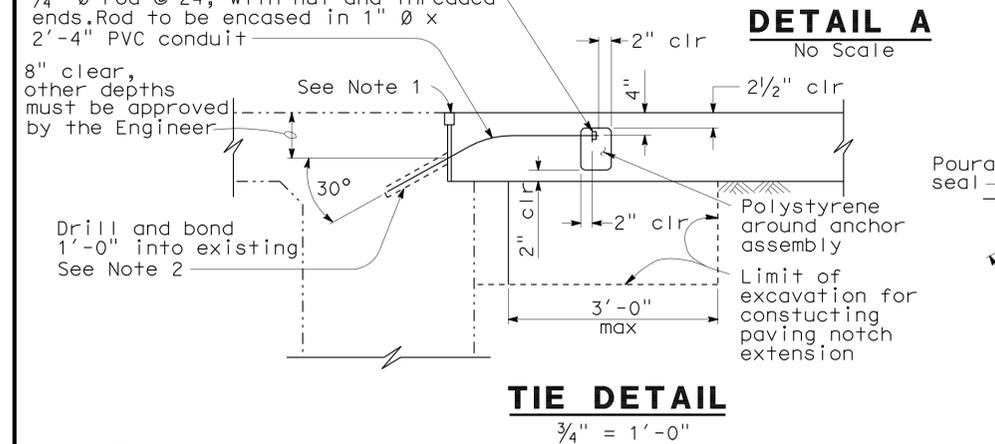
DETAIL A
No Scale



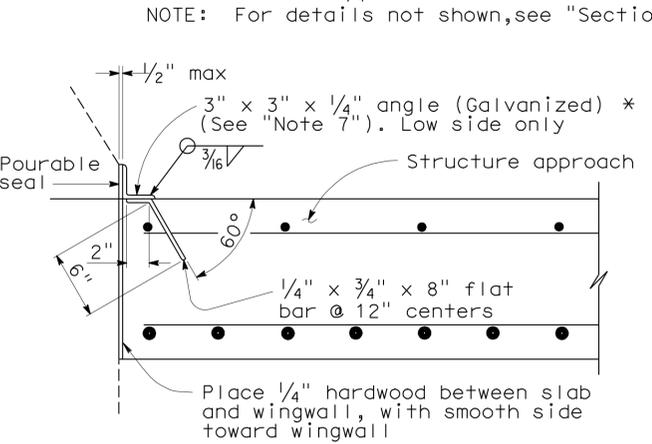
DETAIL C
3/4" = 1'-0"



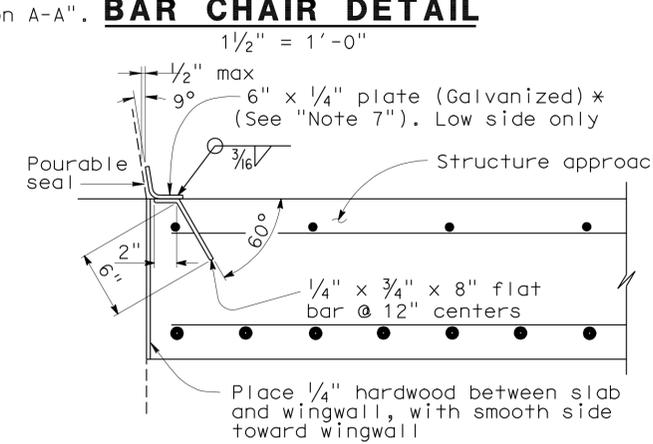
BAR CHAIR DETAIL
1/2" = 1'-0"



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



DETAIL B
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)

- 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.

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

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. Various	MILE POST Varies
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STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. Various	MILE POST Varies
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ROUTE 57,90 BRIDGES		SHEET 09	OF 09
STRUCTURE APPROACH TYPE R(30D)			