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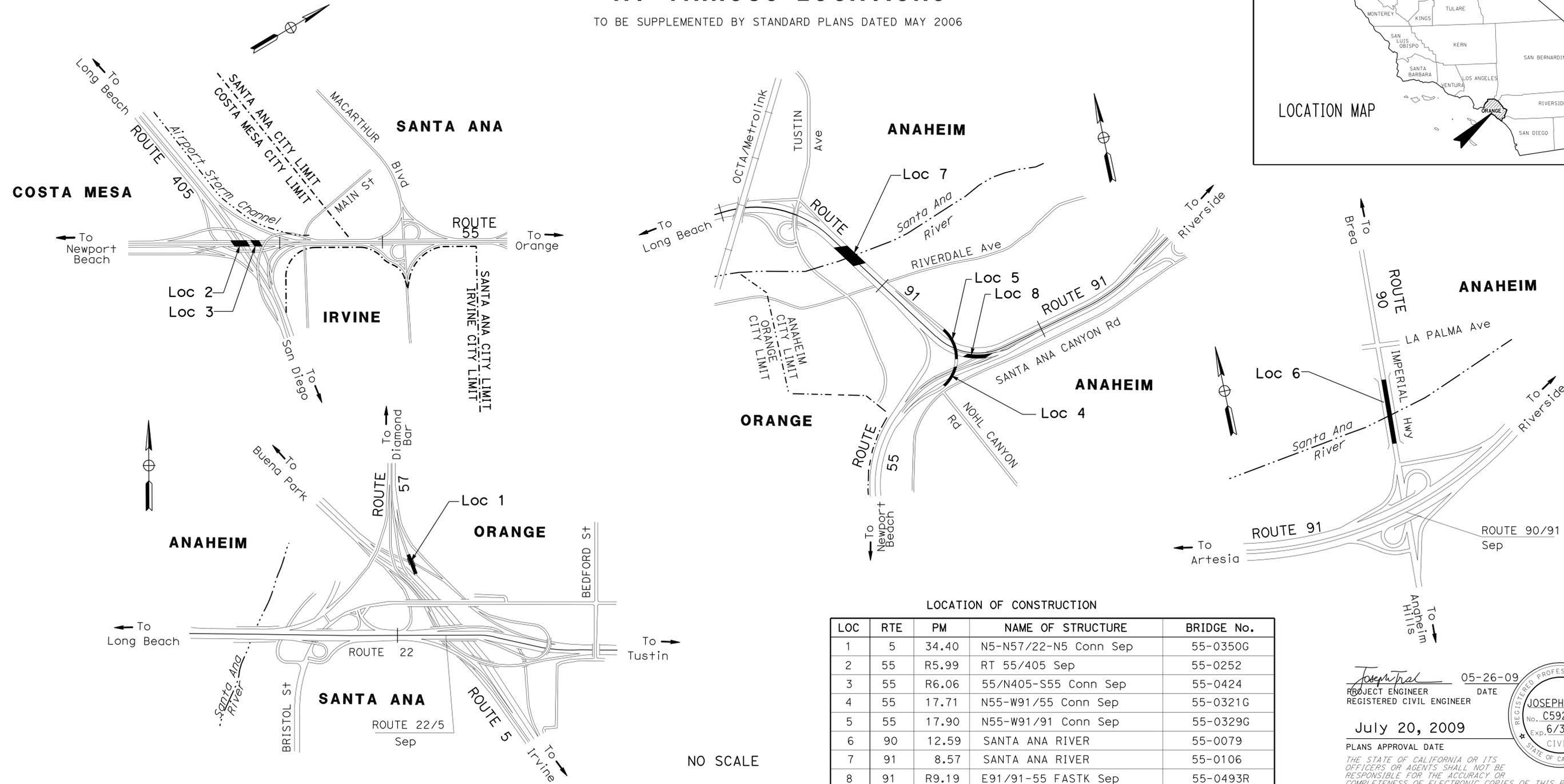
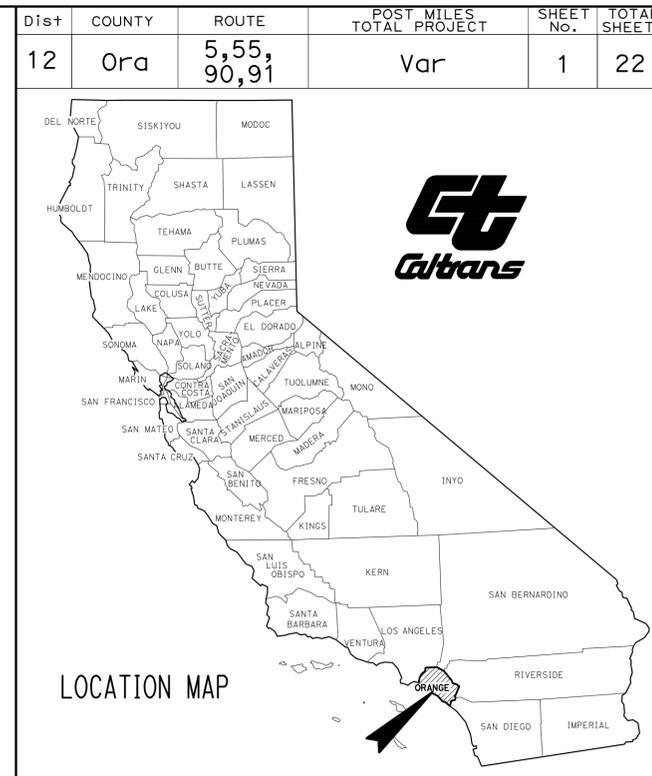
STRUCTURE PLANS

16 - 22 ROUTE 5, 55, 90, 91 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 ORANGE COUNTY
IN ORANGE, COSTA MESA, AND ANAHEIM
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION OF CONSTRUCTION

LOC	RTE	PM	NAME OF STRUCTURE	BRIDGE No.
1	5	34.40	N5-N57/22-N5 Conn Sep	55-0350G
2	55	R5.99	RT 55/405 Sep	55-0252
3	55	R6.06	55/N405-S55 Conn Sep	55-0424
4	55	17.71	N55-W91/55 Conn Sep	55-0321G
5	55	17.90	N55-W91/91 Conn Sep	55-0329G
6	90	12.59	SANTA ANA RIVER	55-0079
7	91	8.57	SANTA ANA RIVER	55-0106
8	91	R9.19	E91/91-55 FASTK Sep	55-0493R

PROJECT ENGINEER REGISTERED CIVIL ENGINEER
 DATE 05-26-09
 July 20, 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.

PROJECT MANAGER
BOB BAZARGAN

 DESIGN ENGINEER
JOSEPH TRAN

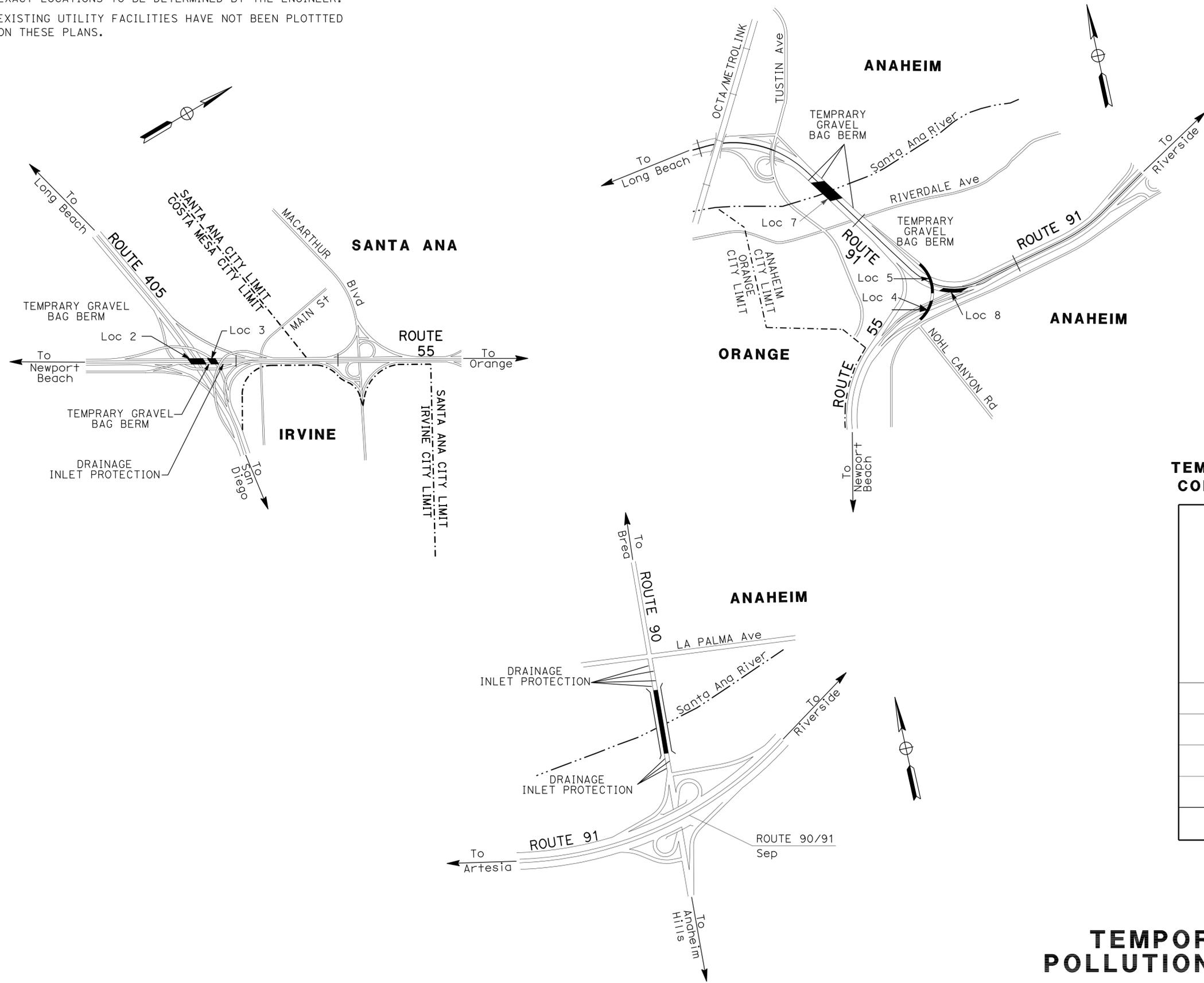
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	2	22

REGISTERED CIVIL ENGINEER: *Joseph Tran*
 DATE: 05-26-09
 PLANS APPROVAL DATE: 7-20-09
 REGISTERED PROFESSIONAL ENGINEER: JOSEPH TRAN
 No. C59283
 Exp. 6/30/11
 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:

1. LOCATION OF INLETS AND OVERSIDE DRAIN SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



TEMPORARY WATER POLLUTION CONTROL QUANTITY SUMMARY

	TEMPORARY GRAVEL BAG BERM	TEMPORARY DRAINAGE INLET PROTECTION
	LF	EA
Loc 2 & 3	90	1
Loc 4, 5 & 8	50	
Loc 6	90	
Loc 7		7
TOTAL	230	8

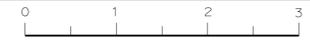
TEMPORARY WATER POLLUTION CONTROL PLAN

NO SCALE

WPC-1

THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTION CONTROL PLAN ONLY

RELATIVE BORDER SCALE IS IN INCHES



USERNAME => trmikes1
DGN FILE => c0f340gb001.dgn

CU 12221

EA OF 3401

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH B
 FUNCTIONAL SUPERVISOR: TONY ENCINARES
 CALCULATED/DESIGNED BY: JOSEPH TRAN
 CHECKED BY: JOSEPH TRAN
 REVISED BY: JOSEPH TRAN
 DATE REVISED:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH B
 FUNCTIONAL SUPERVISOR: TONY ENCINARES
 JOSEPH TRAN
 REVISOR: JOSEPH TRAN
 DATE: 05-26-09

NOTES:

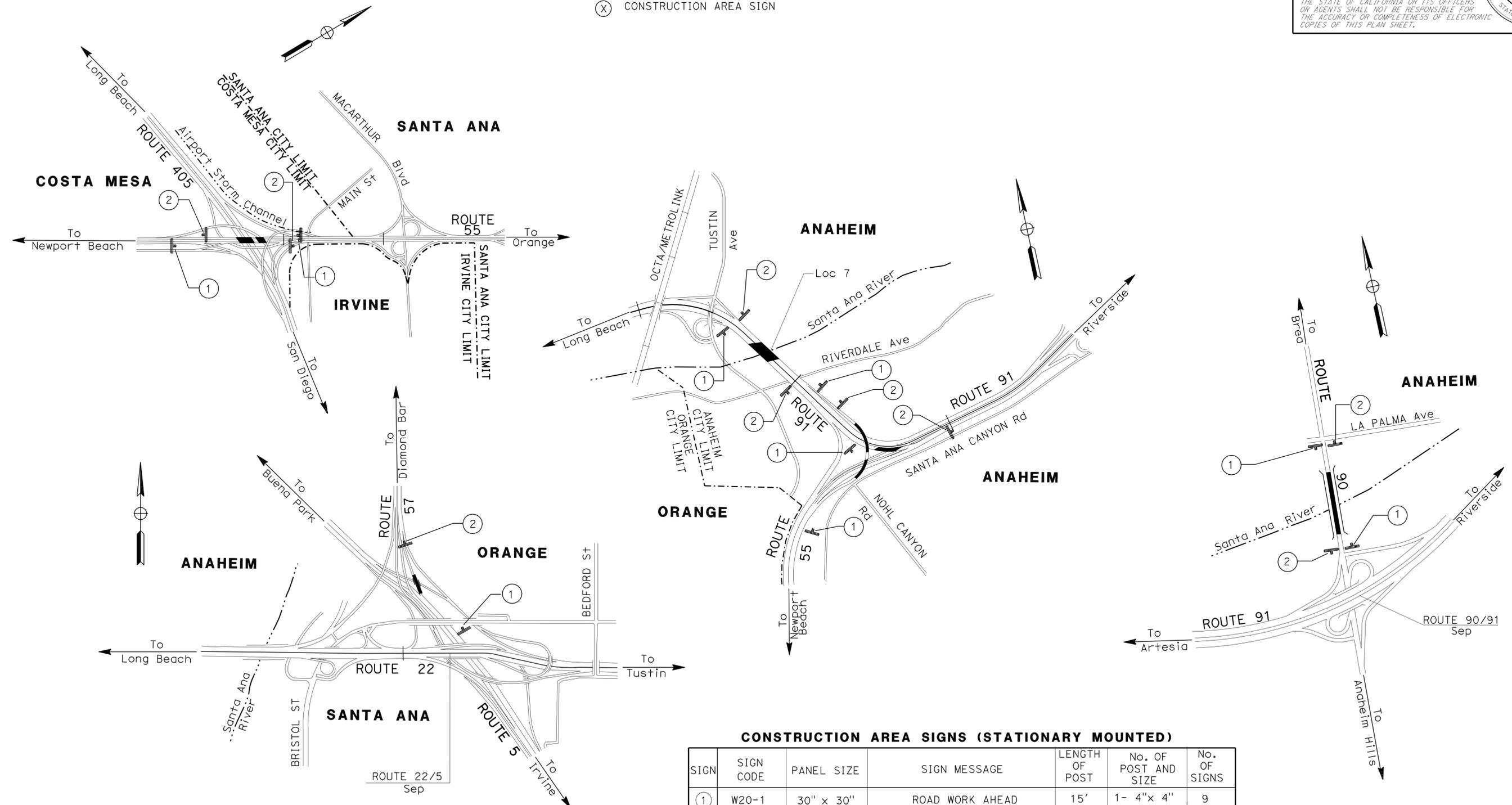
1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:

- ↓ CONSTRUCTION AREA SIGN, 1-POST
- (X) CONSTRUCTION AREA SIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	3	22

REGISTERED CIVIL ENGINEER: *Joseph Tran*
 DATE: 05-26-09
 PLANS APPROVAL DATE: 7-20-09
 REGISTERED PROFESSIONAL ENGINEER: JOSEPH TRAN
 No. C59283
 Exp. 6/30/11
 CIVIL
 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.



CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

SIGN	SIGN CODE	PANEL SIZE	SIGN MESSAGE	LENGTH OF POST	No. OF POST AND SIZE	No. OF SIGNS
①	W20-1	30" x 30"	ROAD WORK AHEAD	15'	1- 4"x 4"	9
②	G20-2	36" x 18"	END ROAD WORK	13'	1- 4"x 4"	9

* FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET TH-1

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
12	Ora	5,55, 90,91	Var	4	22

<i>Joseph Tran</i>	05-26-09
REGISTERED CIVIL ENGINEER	DATE
7-20-09	
PLANS APPROVAL DATE	

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

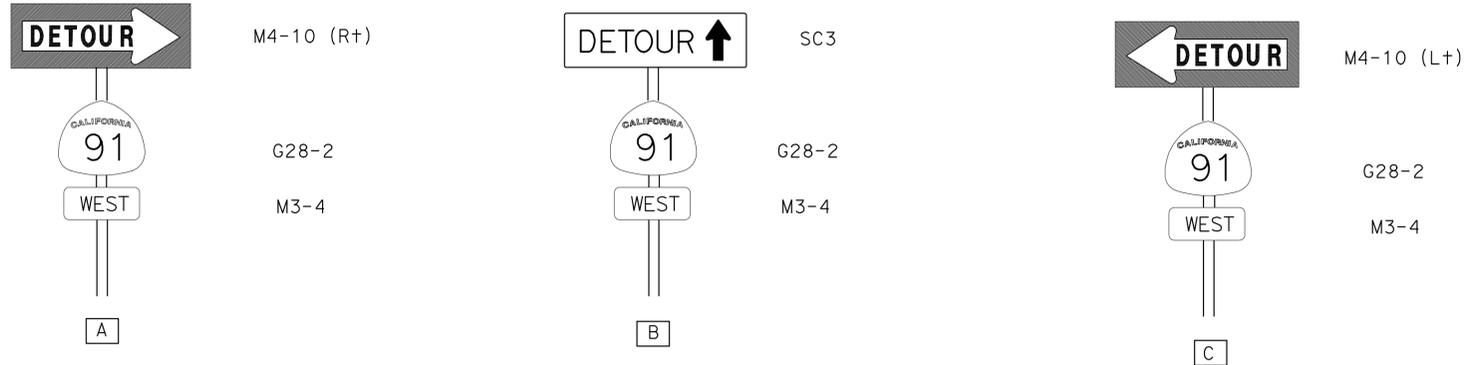
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

NOTES:

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.

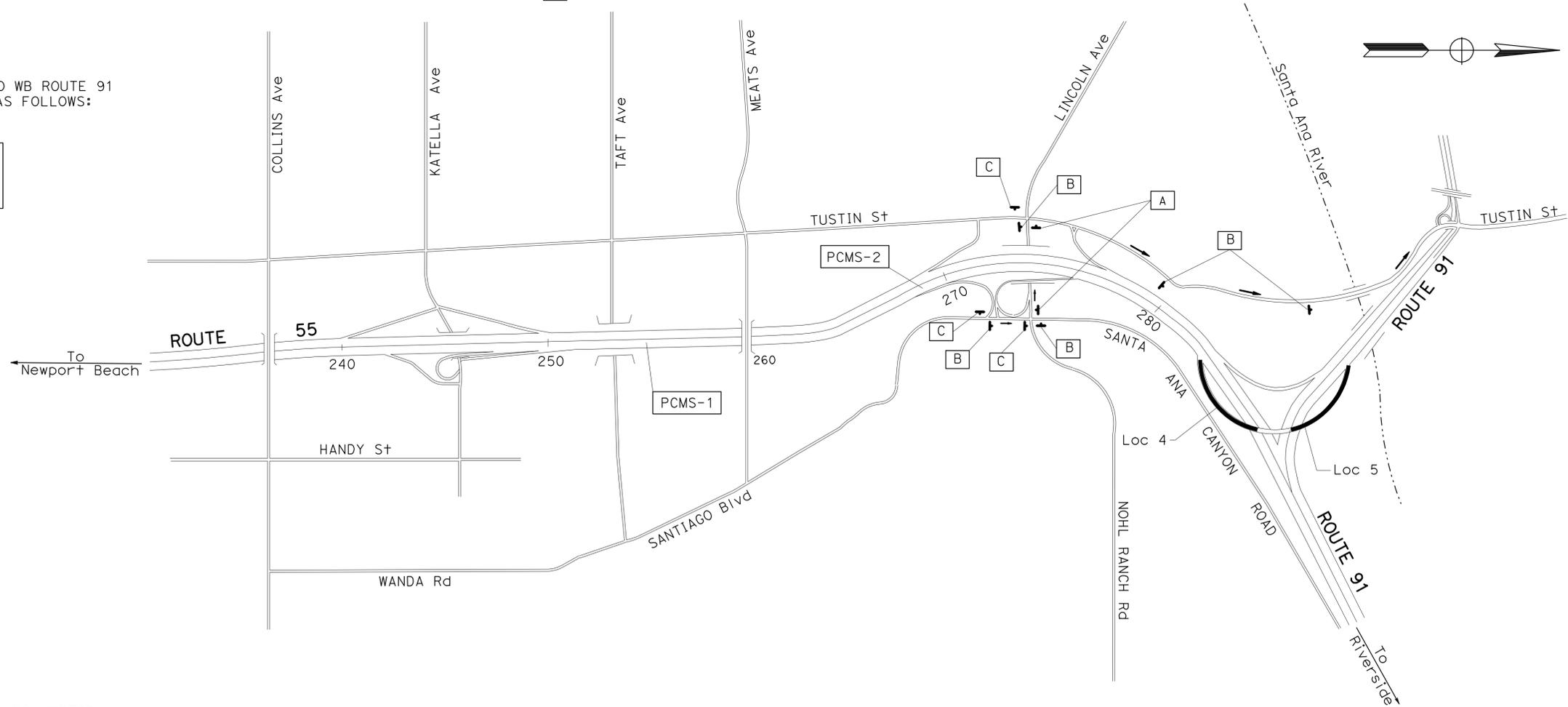
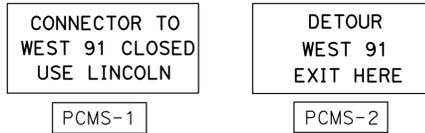
LEGEND:

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



NOTES:

DURING CONNECTOR NB ROUTE 55 TO WB ROUTE 91 CLOSURE, THE PCMS SHOULD READ AS FOLLOWS:



CLOSURE :

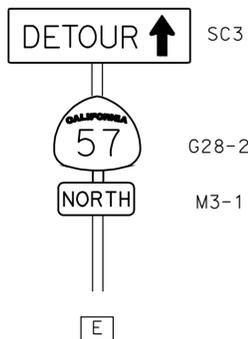
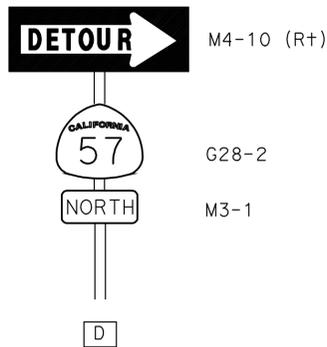
NB ROUTE 55 TO WB ROUTE 91 CONNECTOR

DETOUR :

NB RTE 55 LINCOLN AVE OFF RAMP, LEFT ON SANTIAGO BVLD, LEFT ON LINCOLN AVE AND RIGHT ON TUSTIN ST

TRAFFIC HANDLING PLAN (DETOUR) LOCATION 4 NO SCALE TH-1

THIS PLAN ACCURATE FOR TRAFFIC HANDLING DETOUR ONLY



PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

PCMS	No. OF SIGNS
PCMS-1	1
PCMS-2	1
TOTAL	2

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

SHEET No.	SIGN	SIGN CODE	PANEL SIZE	SIGN MESSAGE	LENGTH OF POST	No. OF POST AND SIZE	QTY
TH-1	A	M4-10 (R+)	48" x 18"	DETOUR	13'	1- 4" x 4"	2
		G28-2	21" x 18"	ROUTE 91			
		M3-4	21" x 9"	WEST			
TH-1	B	SC3	48" x 18"	DETOUR	13'	1- 4" x 4"	5
		G28-2	21" x 18"	ROUTE 91			
		M3-1	21" x 9"	WEST			
TH-1	C	M4-10 (L+)	48" x 18"	DETOUR	13'	1- 4" x 4"	3
		G28-2	21" x 18"	ROUTE 91			
		M3-4	21" x 9"	WEST			
TH-2	D	M4-10 (R+)	48" x 18"	DETOUR	13'	1- 4" x 4"	2
		G28-2	21" x 18"	ROUTE 57			
		M3-1	21" x 9"	NORTH			
TH-2	E	SC3	48" x 18"	DETOUR	13'	1- 4" x 4"	1
		G28-2	21" x 18"	ROUTE 57			
		M3-1	21" x 9"	NORTH			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN BRANCH B
 FUNCTIONAL SUPERVISOR: TONY ENCINARES
 CALCULATED/DESIGNED BY: JOSEPH TRAN
 CHECKED BY: JOSEPH TRAN
 REVISED BY: JOSEPH TRAN
 DATE REVISED:

NOTES:
 DURING CONNECTOR NB ROUTE 5 TO NB ROUTE 57 CLOSURE, THE PCMS SHOULD READ AS FOLLOWS:

CONNECTOR TO NORTH 57 CLOSED

PCMS-1 FIRST PANEL

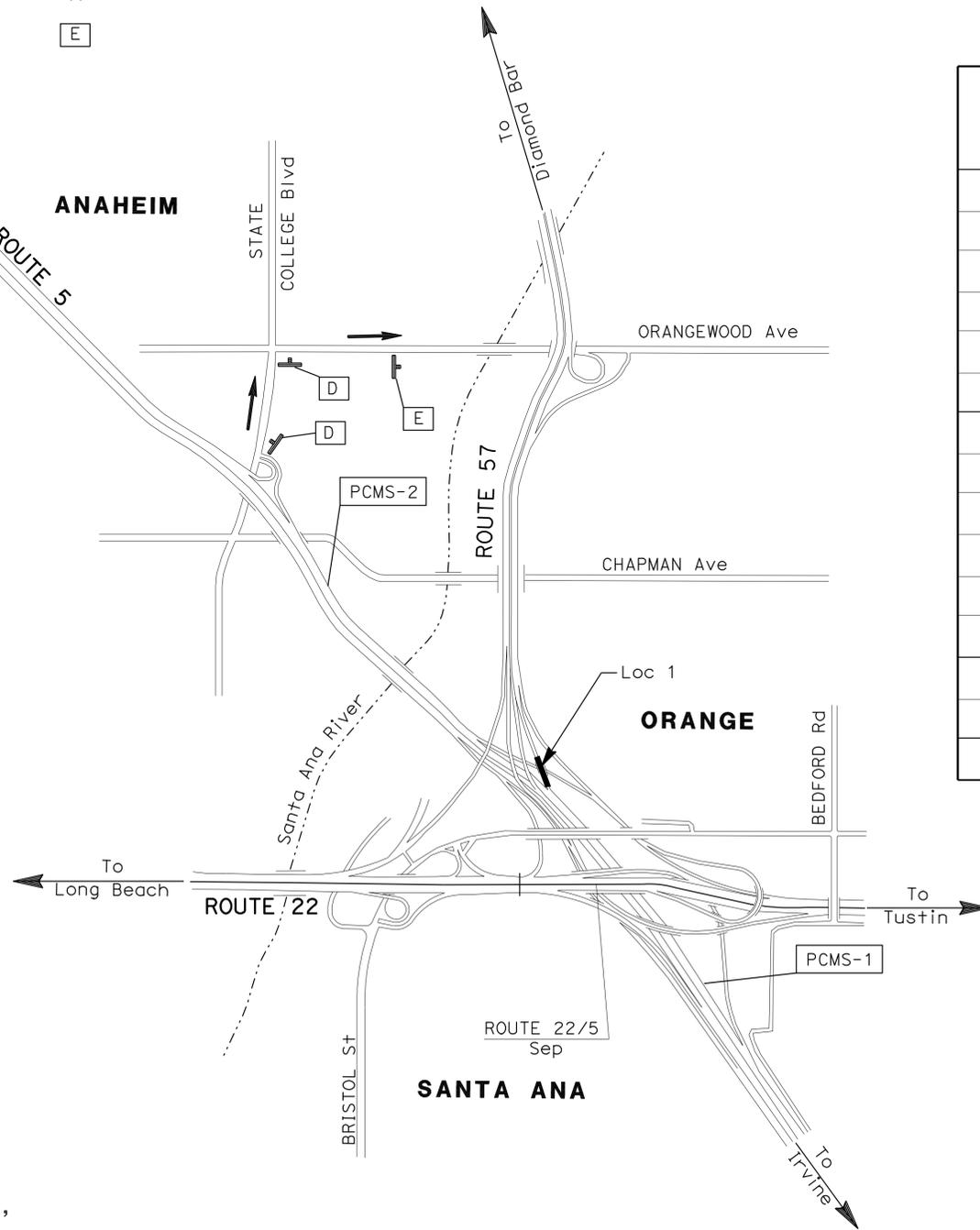
USE STATE COLLEGE EXIT

PCMS-1 SECOND PANEL

DETOUR NORTH 57 EXIT HERE
 PCMS-2

CLOSURE :
 NB ROUTE 5 TO NB ROUTE 57 CONNECTOR

DETOUR :
 NB ROUTE 5 STATE COLLEGE BLVD OFF-RAMP, RIGHT ON ORANGEWOOD AVE



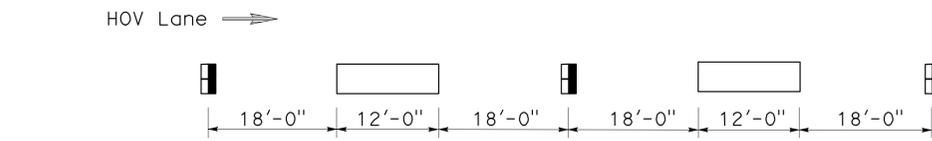
THIS PLAN ACCURATE FOR TRAFFIC HANDLING DETOUR ONLY

TRAFFIC HANDLING PLAN (DETOUR) LOCATION 1

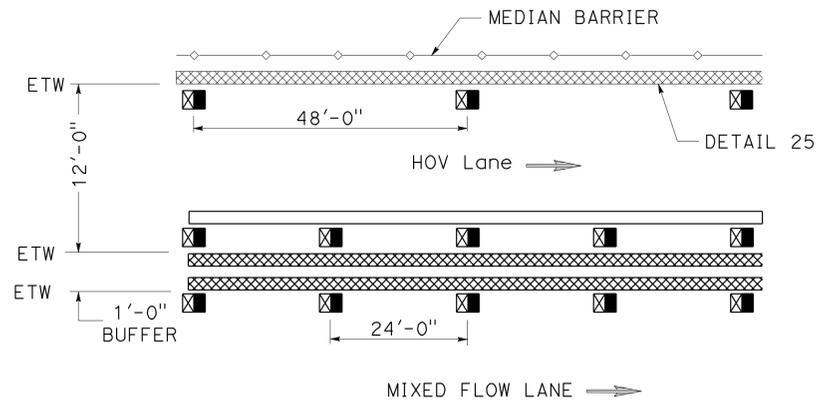
NO SCALE

TH-2

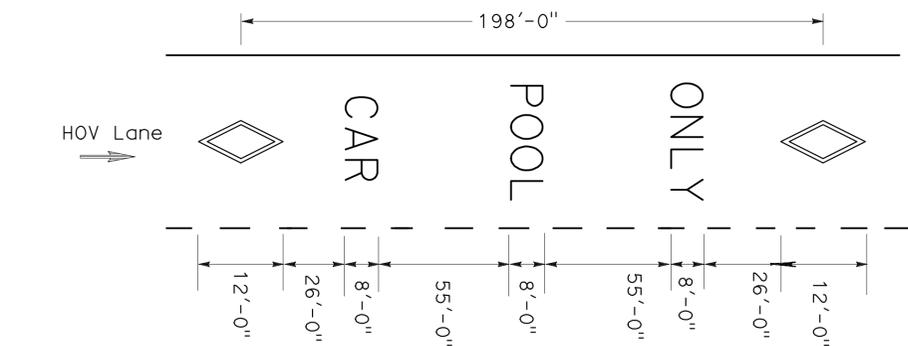
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	6	22
<i>Bang Q. Hua</i> 5-26-09 REGISTERED CIVIL ENGINEER DATE					
7-20-09 PLANS APPROVAL DATE					
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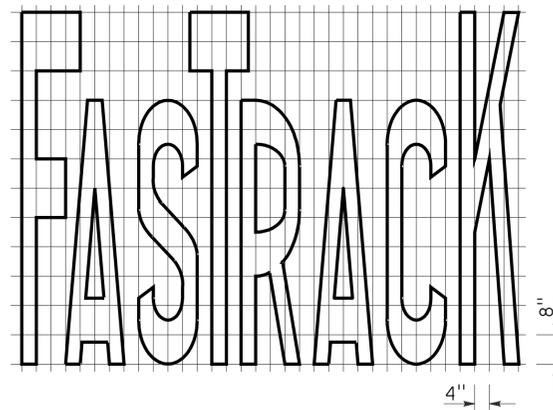
DETAIL "A"
HOV LANE INGRESS/EGRESS STRIPING DETAIL



DETAIL "B"
HOV LANE BUFFER STRIPING DETAIL
BUFFER WIDTH - 1 FOOT



DETAIL "C"
TYPICAL HOV LANE PAVEMENT MARKING
AT INGRESS/EGRESS
LOCATION 2-NB



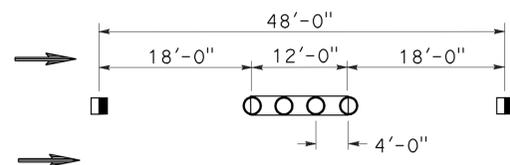
DETAIL "E"
LOCATION 7-EB

LEGEND

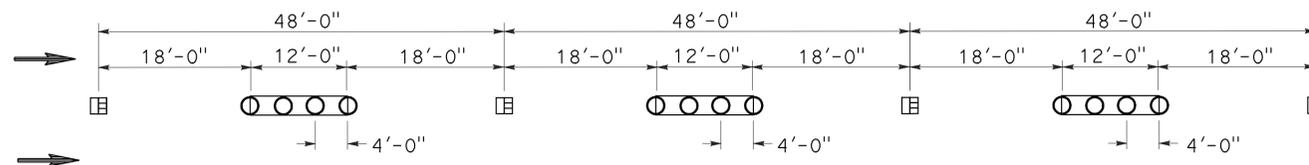
- TYPE A WHITE NON-REFLECTIVE MARKER
- TYPE C RED-CLEAR RETROREFLECTIVE MARKER
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER
- 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE
- 4" WHITE THERMOPLASTIC TRAFFIC STRIPE
- 8" WHITE THERMOPLASTIC TRAFFIC STRIPE
- DIRECTION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

NOTE:

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



DETAIL 13 Mod



DETAIL 14 Mod

**PAVEMENT DELINEATION
DETAILS**

NO SCALE

PDD-1

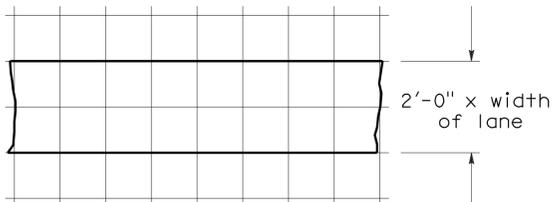
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DELIVERY
 FUNCTIONAL SUPERVISOR: ADEL MALEK
 CALCULATED/DESIGNED BY: ADEL MALEK
 CHECKED BY: ADEL MALEK
 REVISED BY: ADEL MALEK
 DATE REVISED: ADEL MALEK

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	8	22

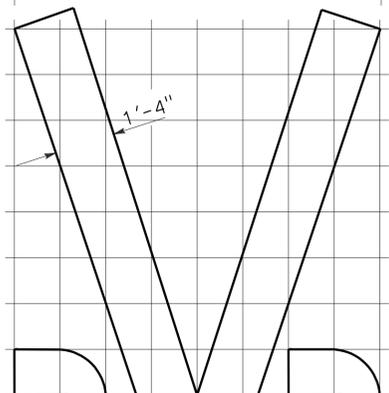
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

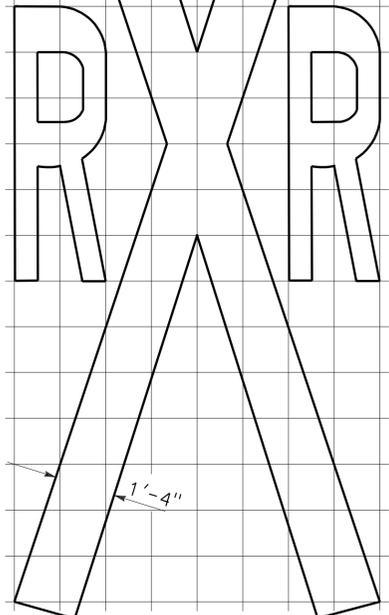
To accompany plans dated 7-20-09



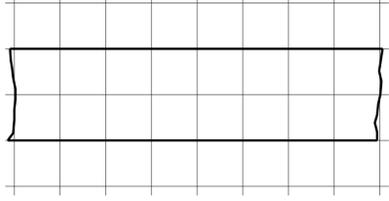
8'-0"



6'-0"
20'-0"



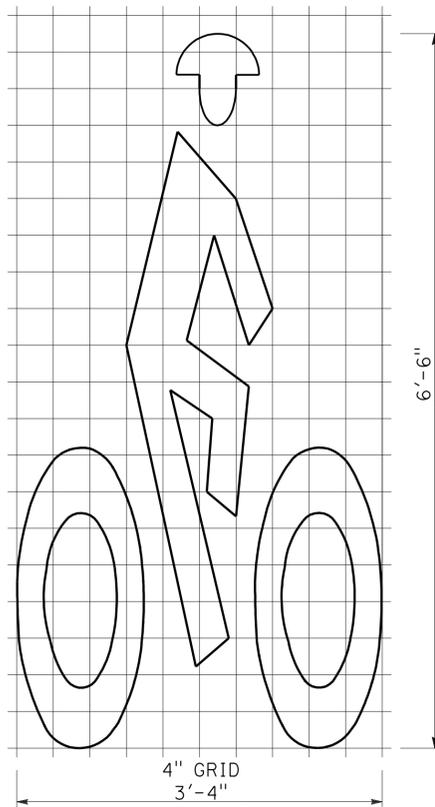
14'-0"



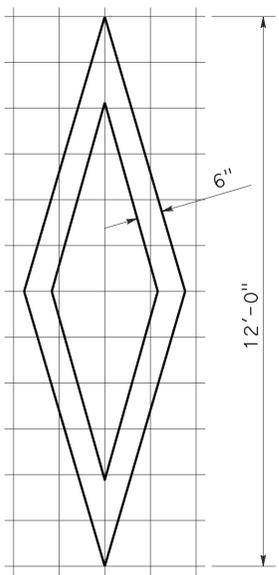
1'-0" GRID
A=70 sq ft *

RAILROAD CROSSING SYMBOL

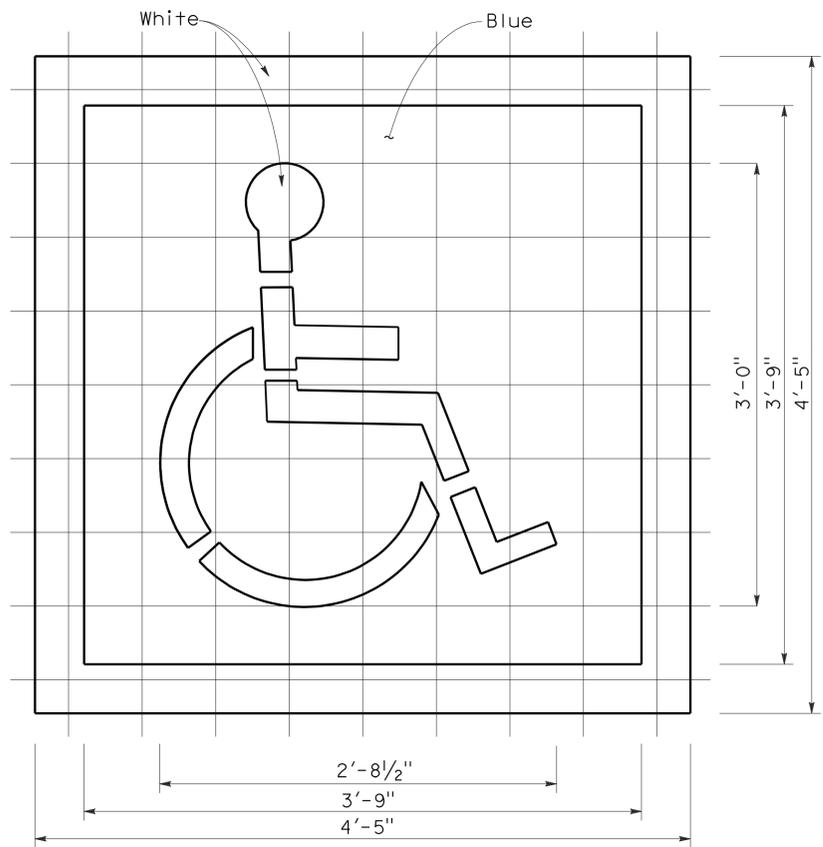
*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



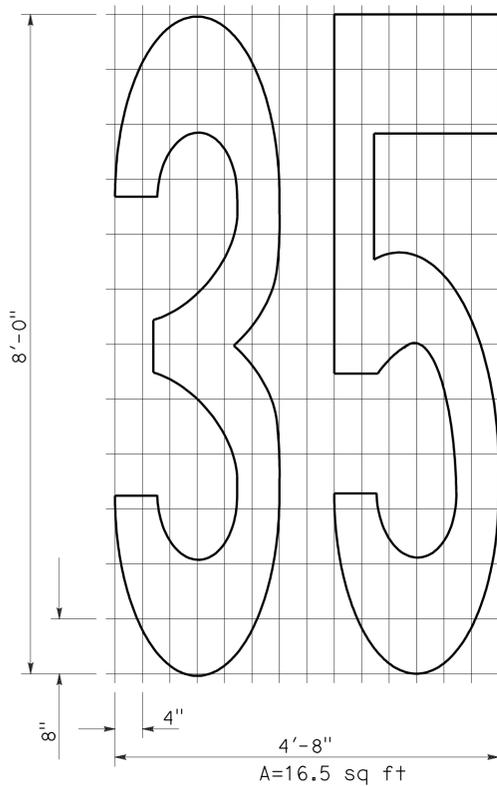
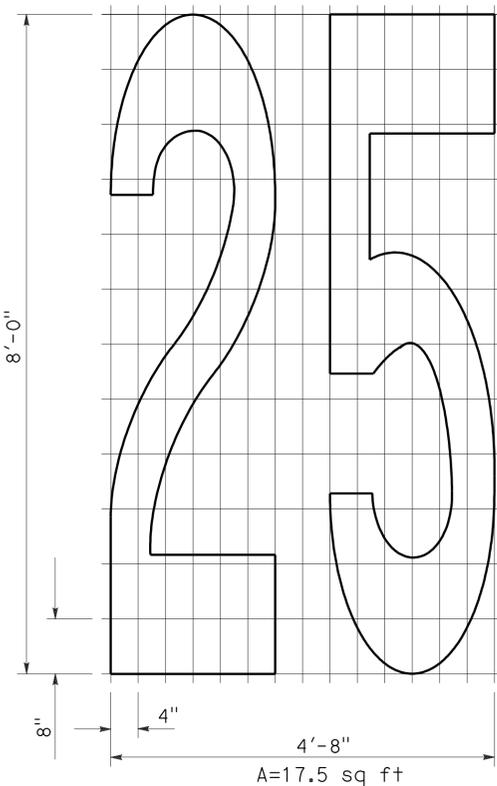
BIKE LANE SYMBOL



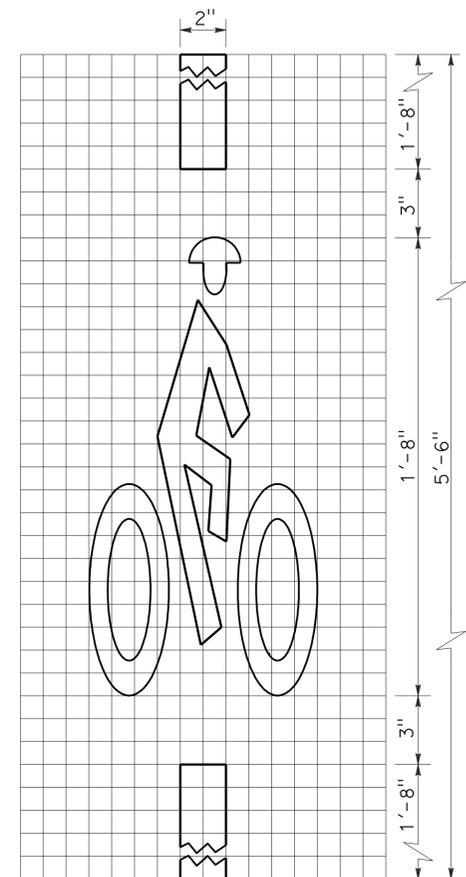
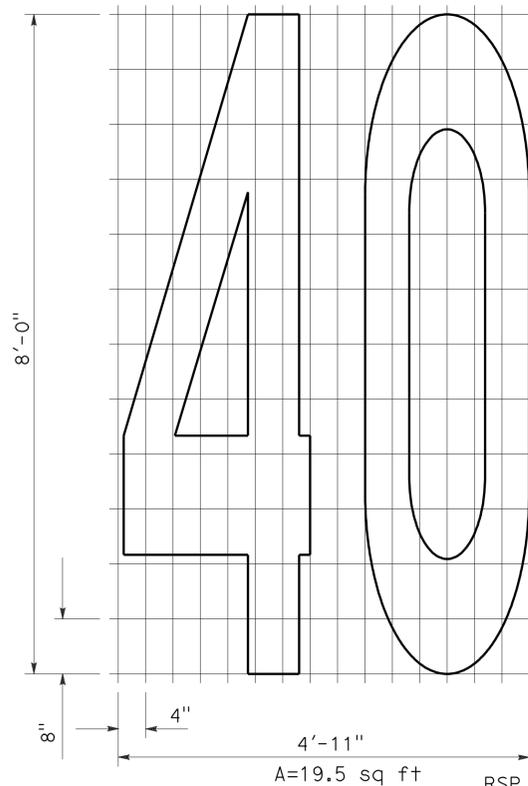
DIAMOND SYMBOL



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

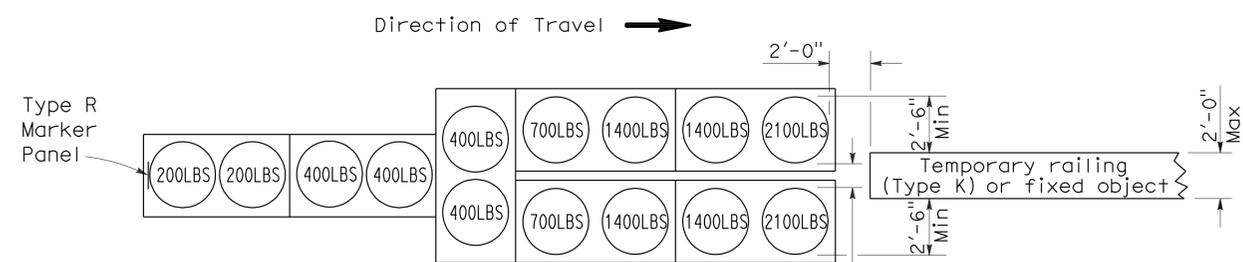
REVISED STANDARD PLAN RSP A24C

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

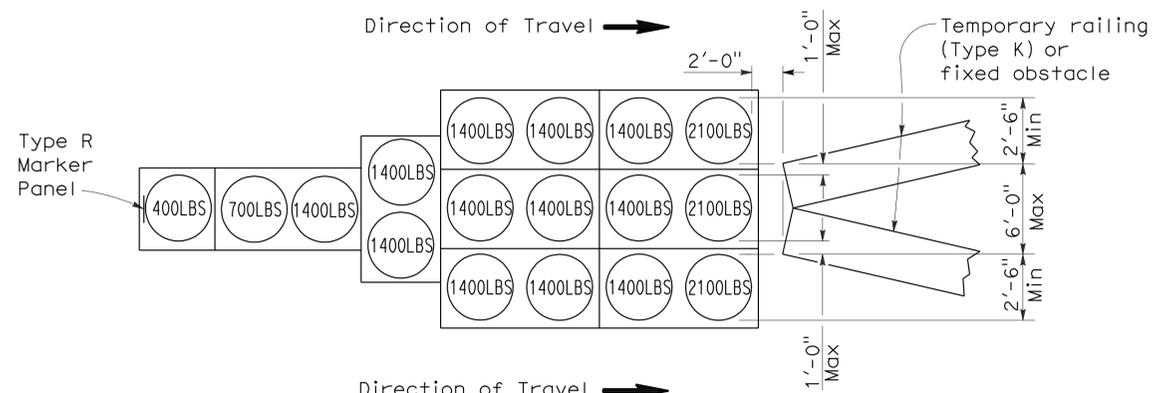
To accompany plans dated 7-20-09

2006 REVISED STANDARD PLAN RSP T1A



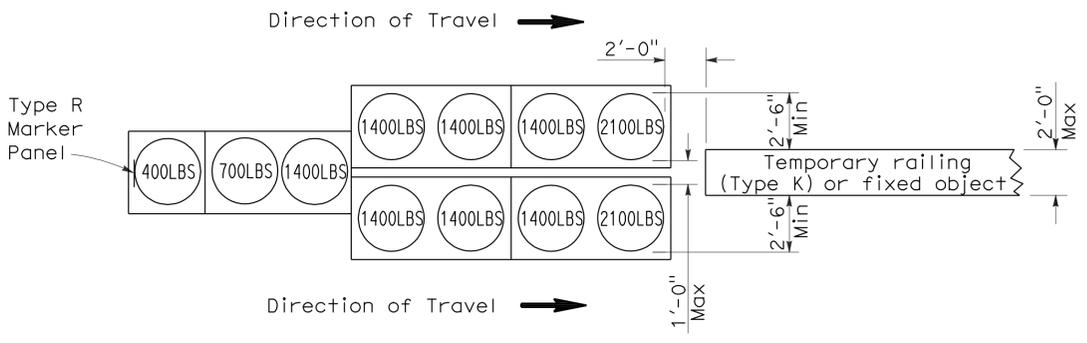
ARRAY 'TU14'

Approach speed 45 mph or more



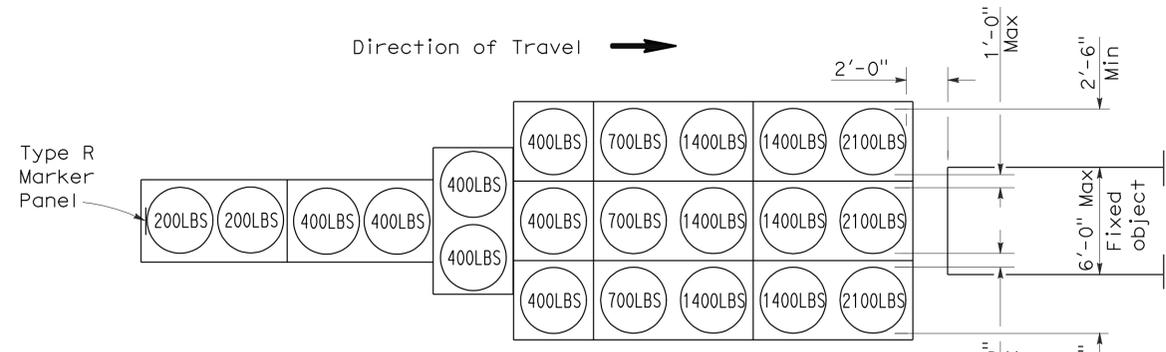
ARRAY 'TU17'

Approach speed less than 45 mph



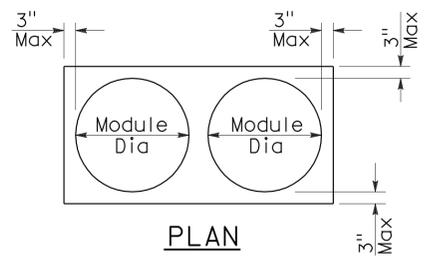
ARRAY 'TU11'

Approach speed less than 45 mph

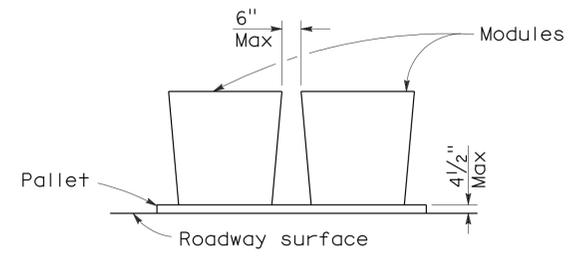


ARRAY 'TU21'

Approach speed 45 mph or more



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	10	22

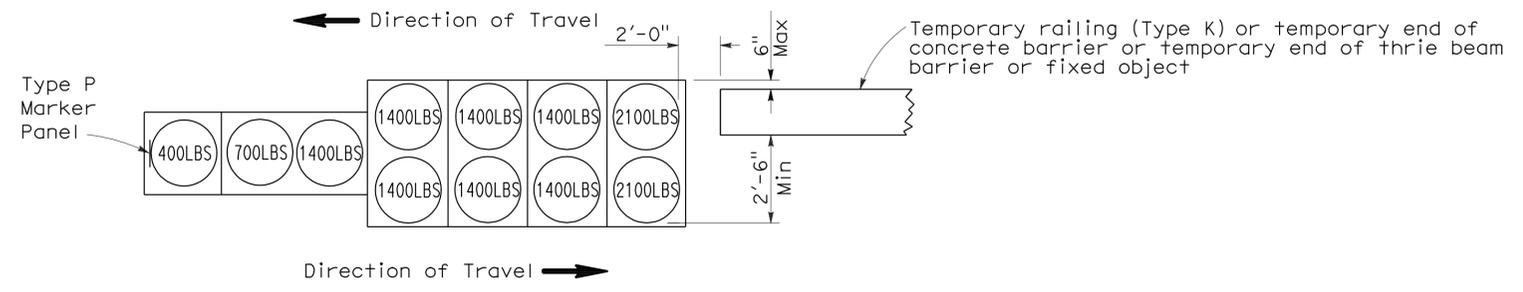
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

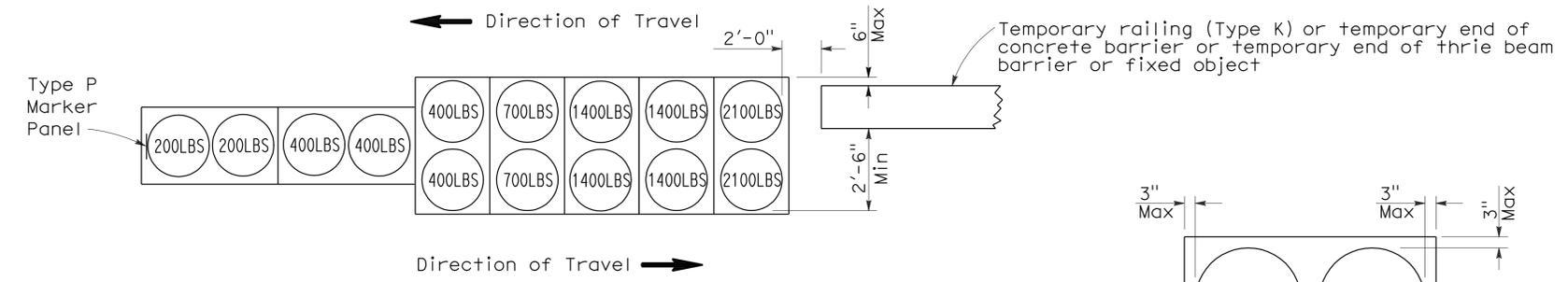
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To accompany plans dated 7-20-09



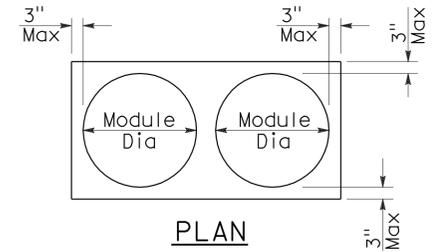
ARRAY 'TB11'

Approach speed less than 45 mph

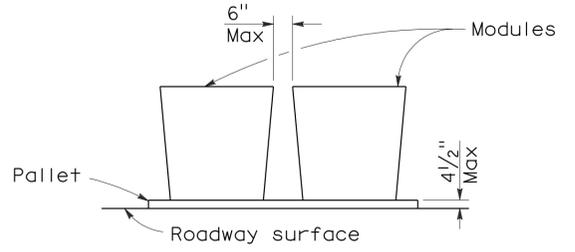


ARRAY 'TB14'

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	5,55, 90,91	Var	11	22

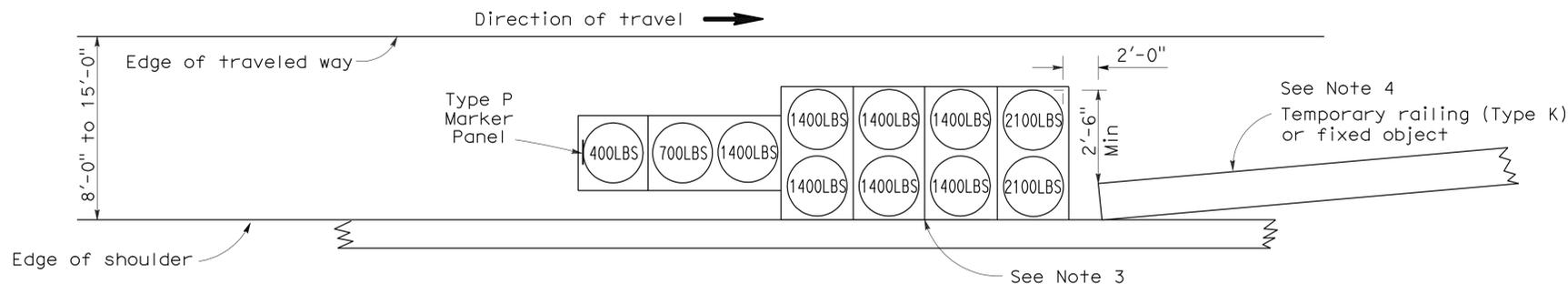
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

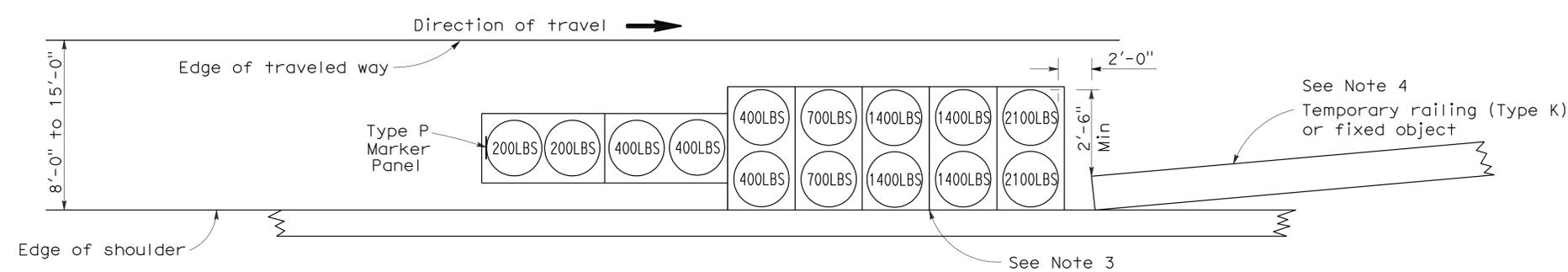
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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 7-20-09



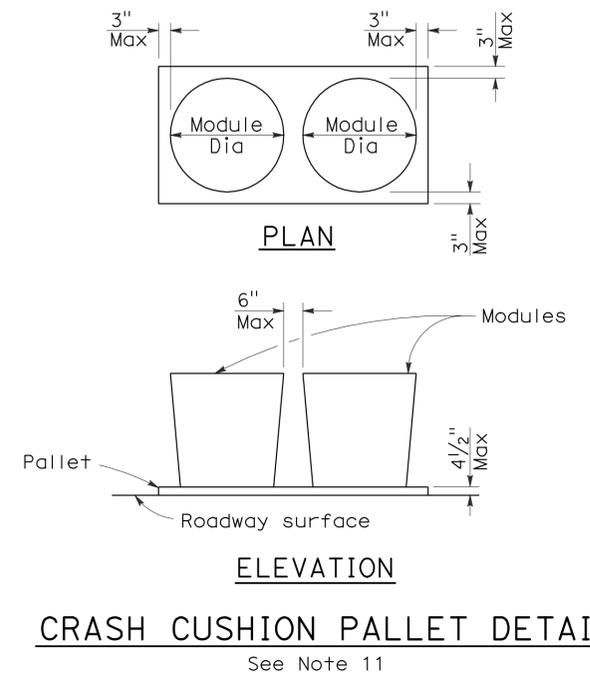
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	12	22

Robert B. Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 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.

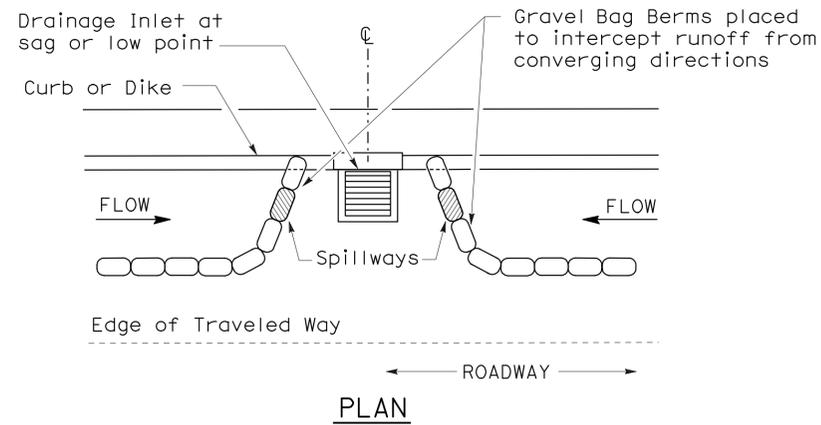
To accompany plans dated 7-20-09



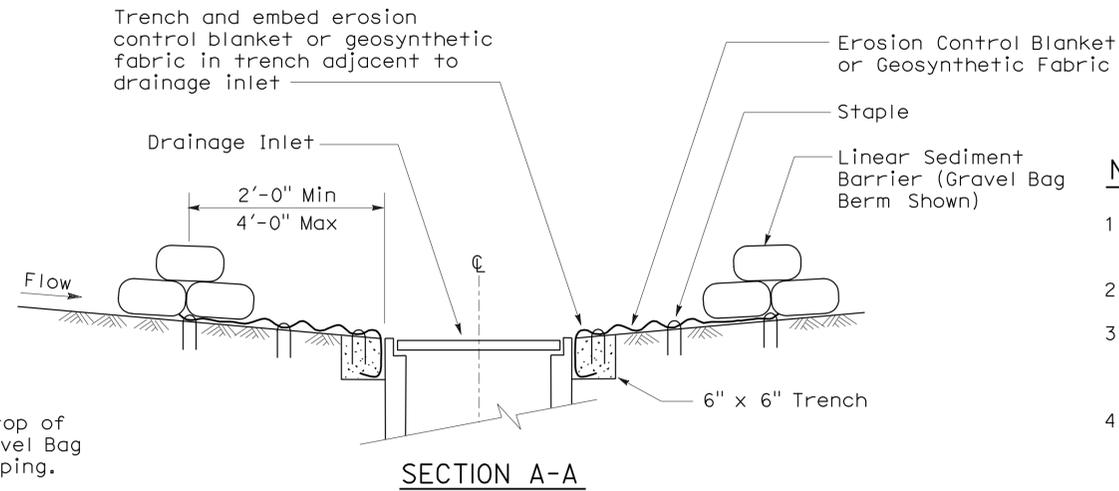
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

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



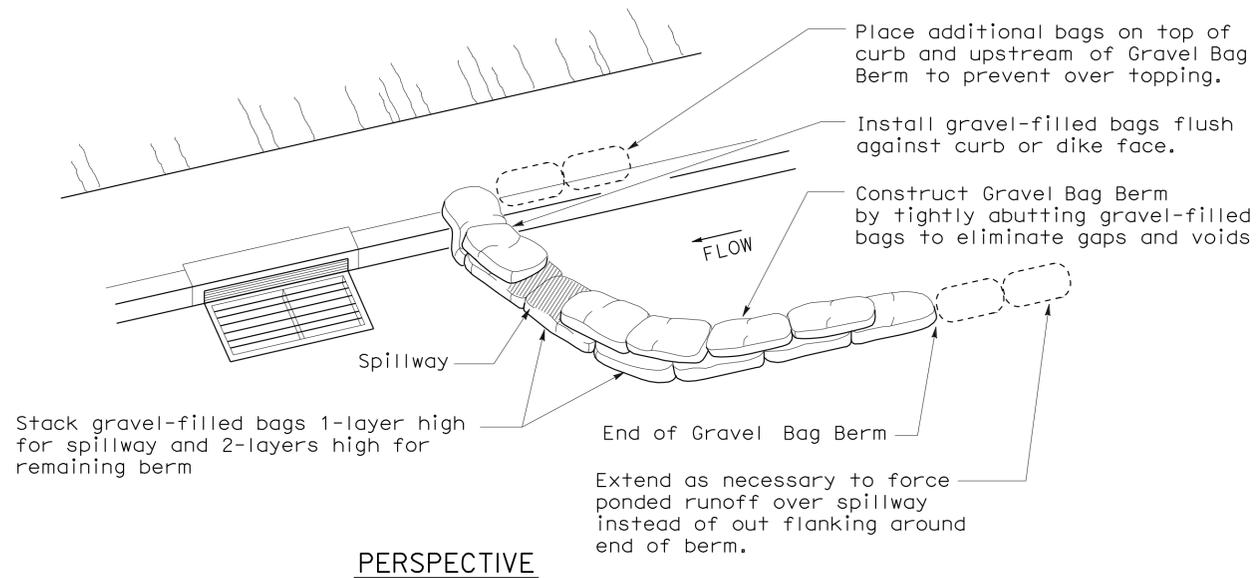
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



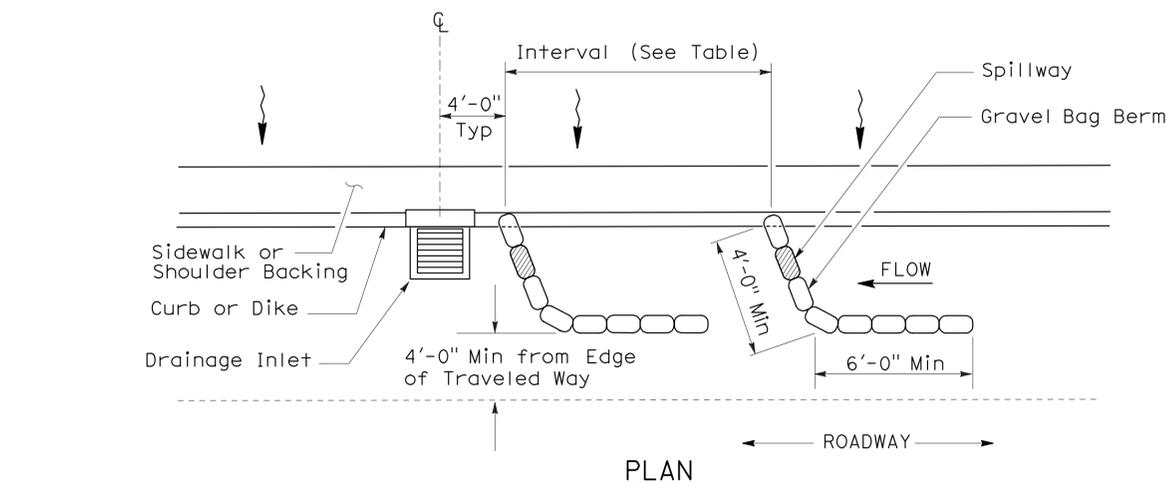
SECTION A-A

NOTES:

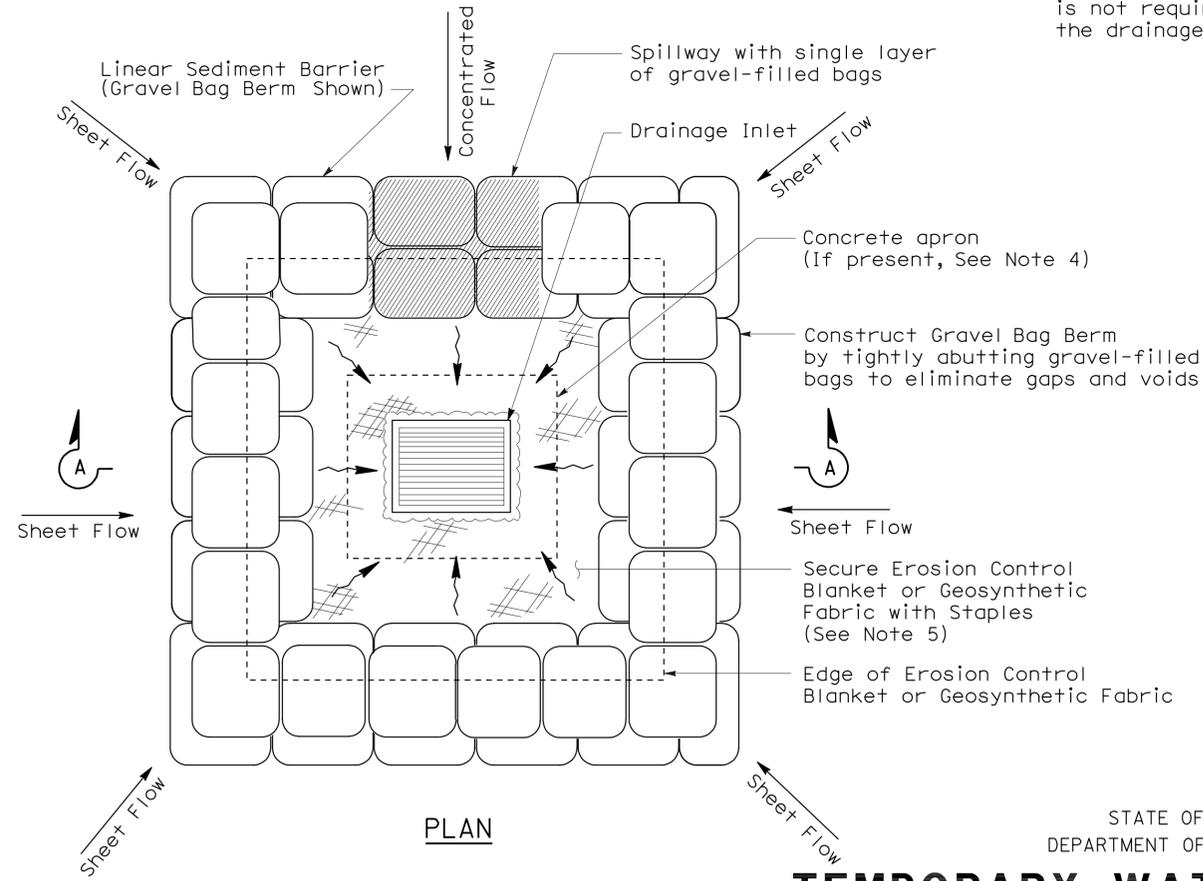
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.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



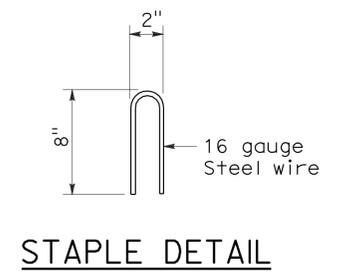
PERSPECTIVE



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



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



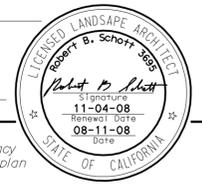
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

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

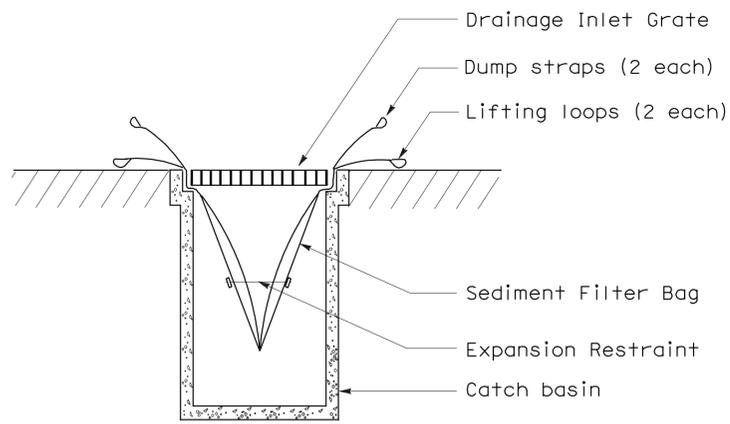
2006 NEW STANDARD PLAN NSP T62

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	13	22

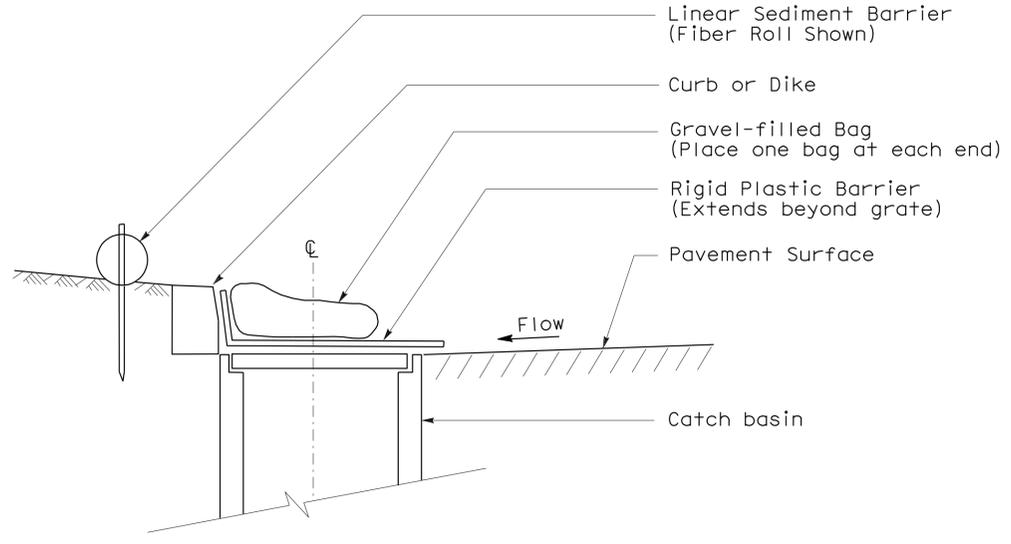
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



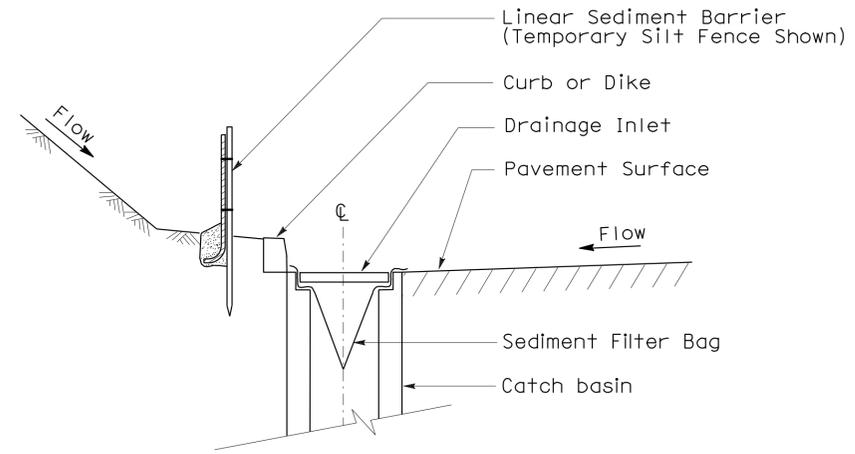
To accompany plans dated 7-20-09



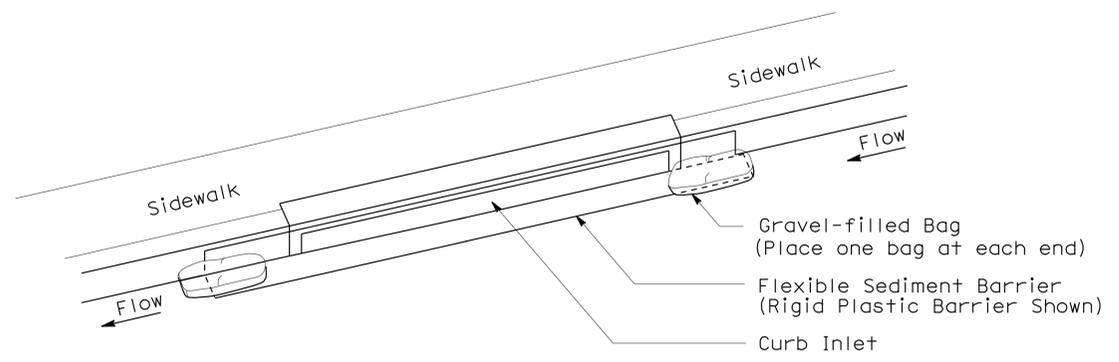
SECTION B-B
SEDIMENT FILTER BAG DETAIL



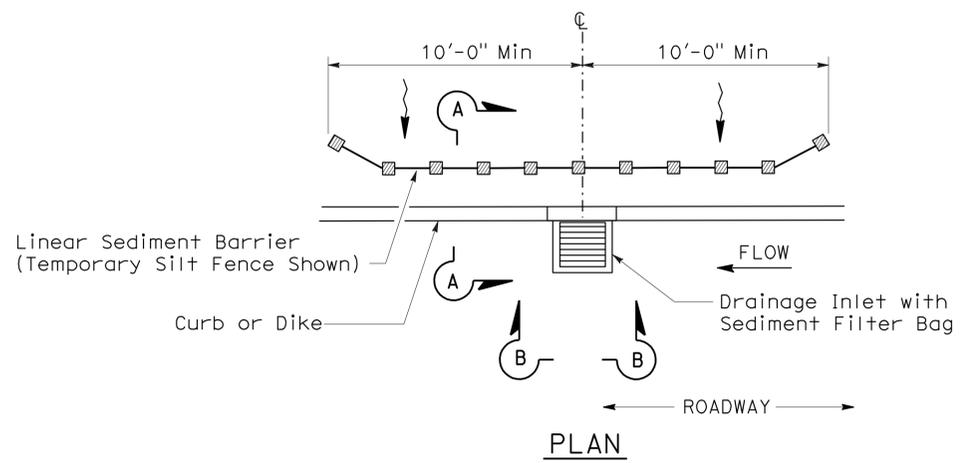
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



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



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

NOTES:

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

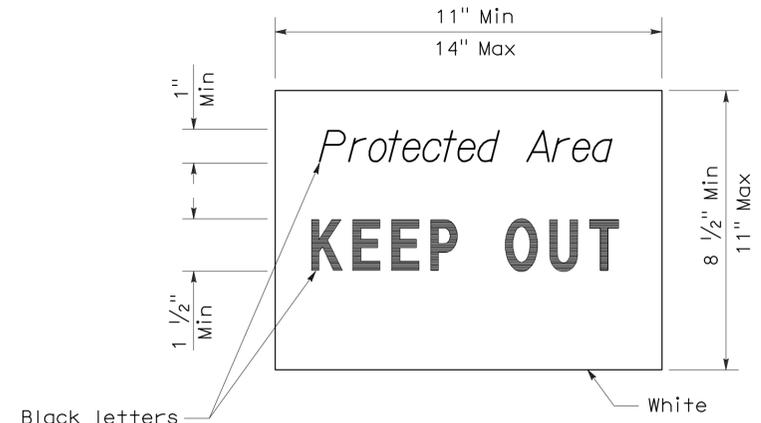
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T64

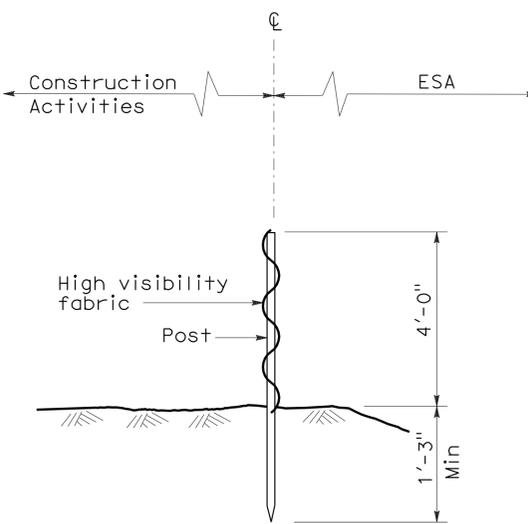
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	14	22

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.

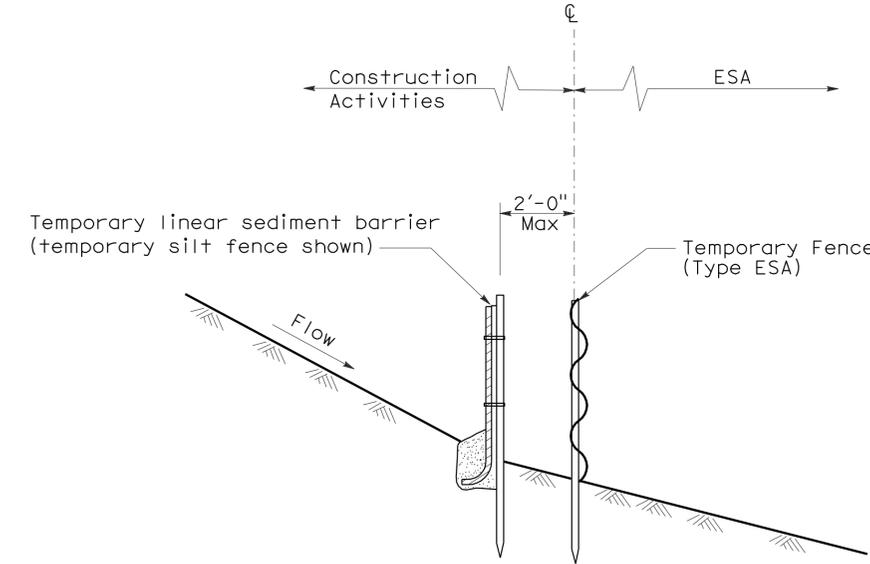


SIGN DETAIL

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

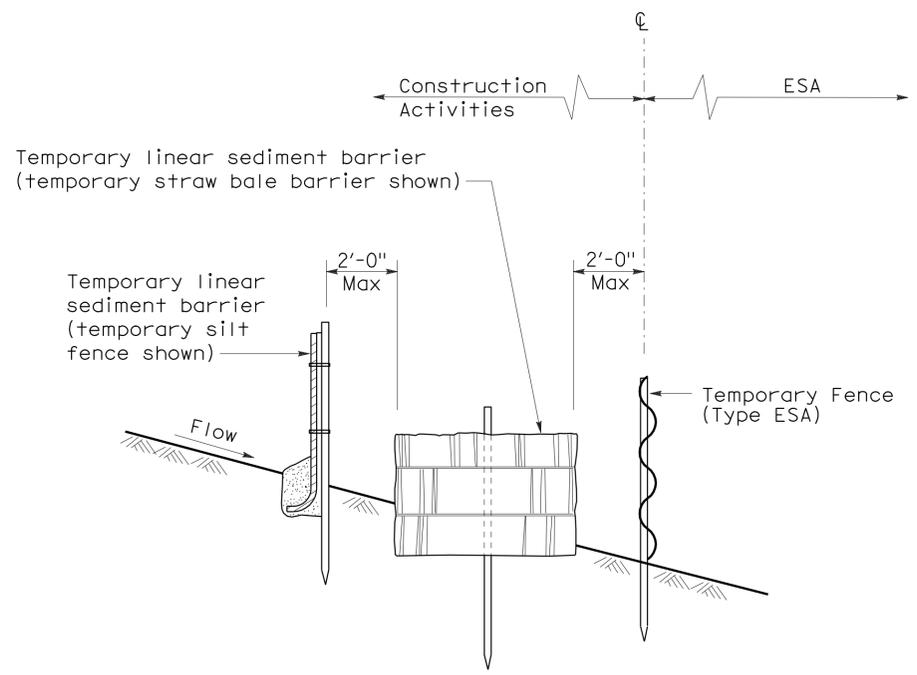


SECTION TEMPORARY FENCE (TYPE ESA)



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)

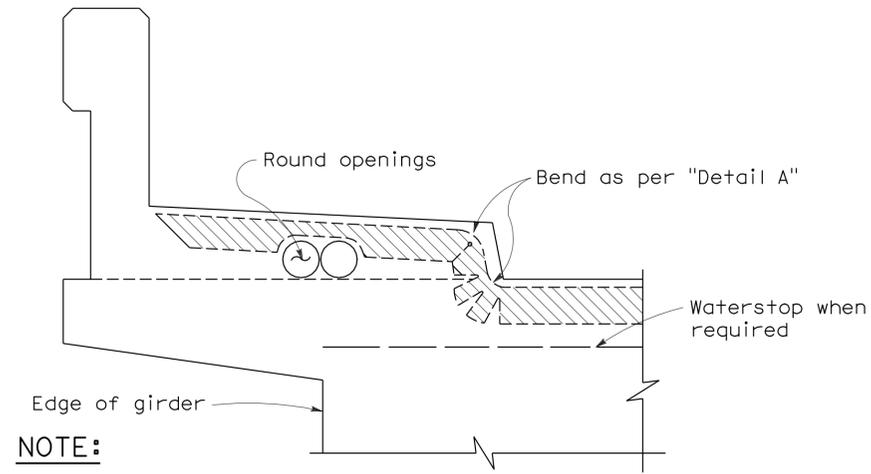
(See Note 1)

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.

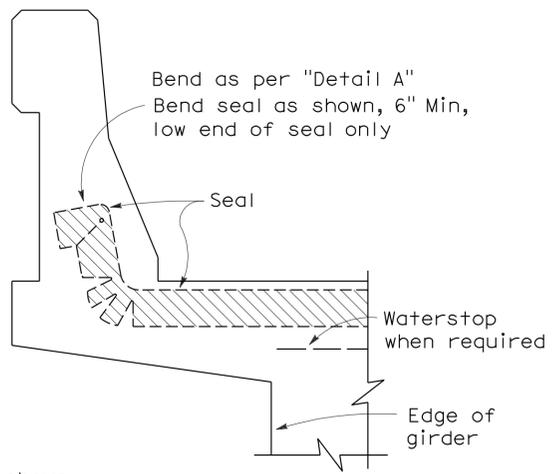
NEW STANDARD PLAN NSP T65

2006 NEW STANDARD PLAN NSP T65

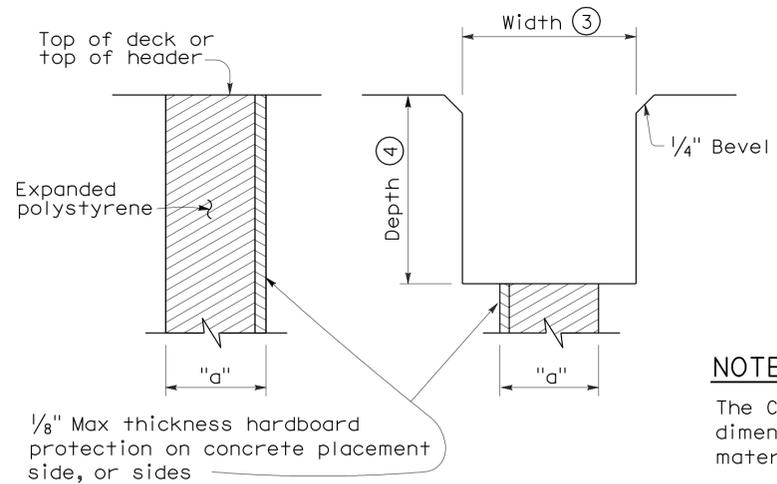


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



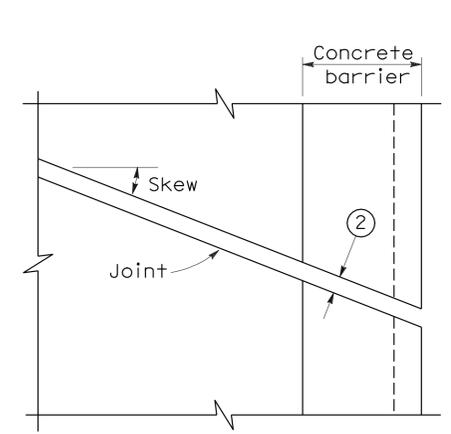
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

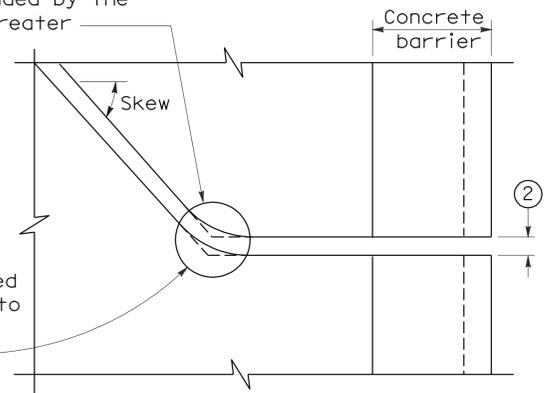
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



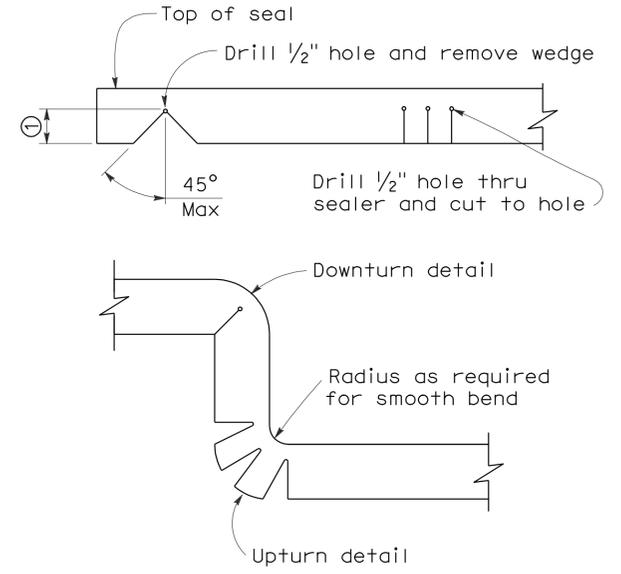
PLAN OF JOINT (SKEW ≤ 20°)

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.



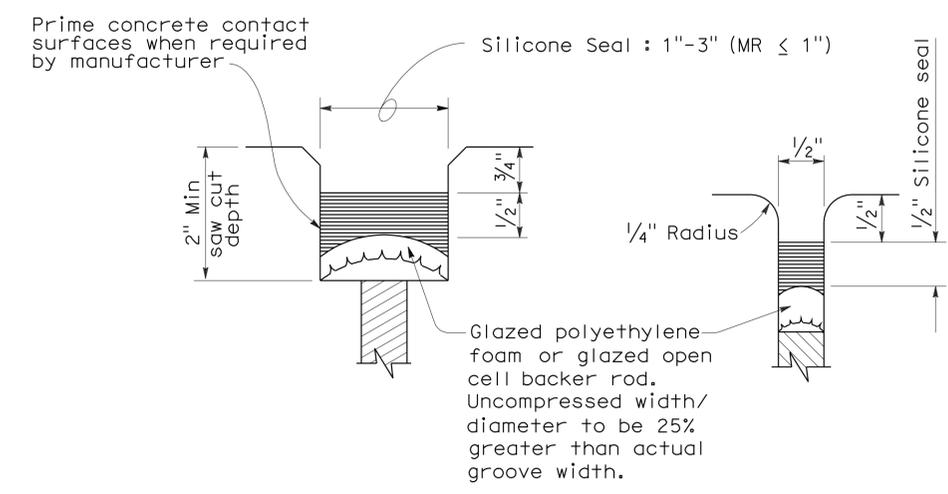
DETAIL A

- 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"

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

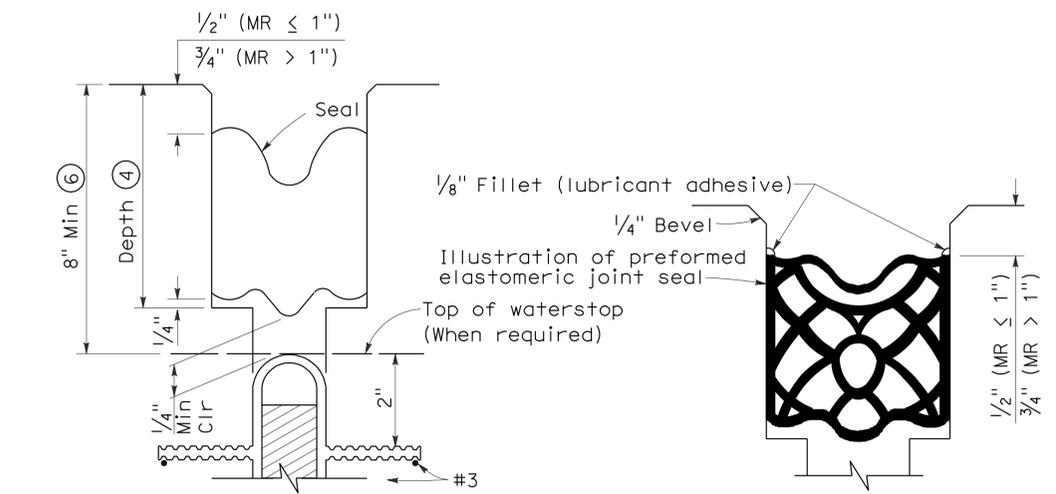


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

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

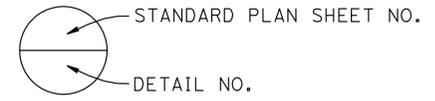
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	16	22
<i>Tony D. Brake</i> 05/18/09 REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE 7-20-09					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness 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.

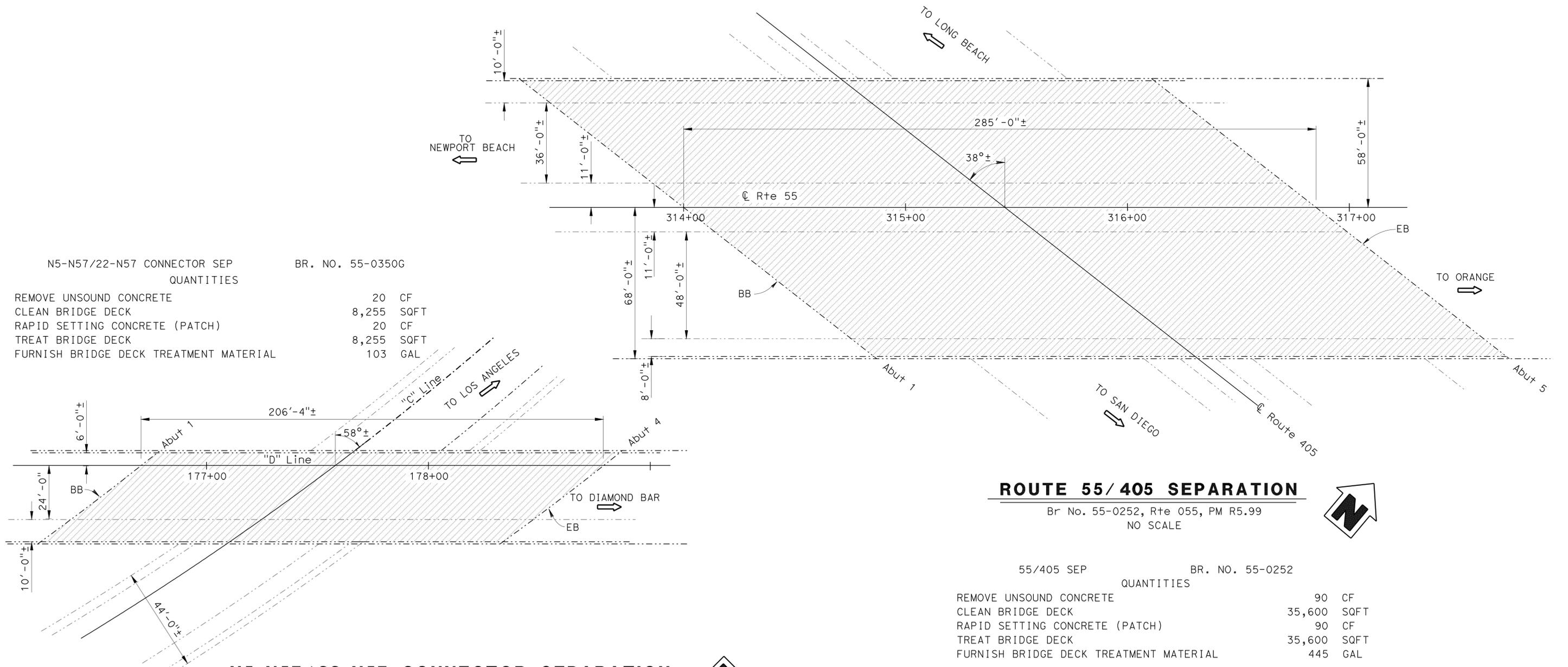
STANDARD PLANS DATED MAY 2006

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")



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	MISCELLANEOUS DETAILS NO. 1
7	MISCELLANEOUS DETAILS NO. 2



N5-N57/22-N57 CONNECTOR SEP BR. NO. 55-0350G

QUANTITIES

REMOVE UNSOUND CONCRETE	20	CF
CLEAN BRIDGE DECK	8,255	SQFT
RAPID SETTING CONCRETE (PATCH)	20	CF
TREAT BRIDGE DECK	8,255	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	103	GAL

55/405 SEP BR. NO. 55-0252

QUANTITIES

REMOVE UNSOUND CONCRETE	90	CF
CLEAN BRIDGE DECK	35,600	SQFT
RAPID SETTING CONCRETE (PATCH)	90	CF
TREAT BRIDGE DECK	35,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	445	GAL

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

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

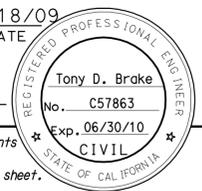
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

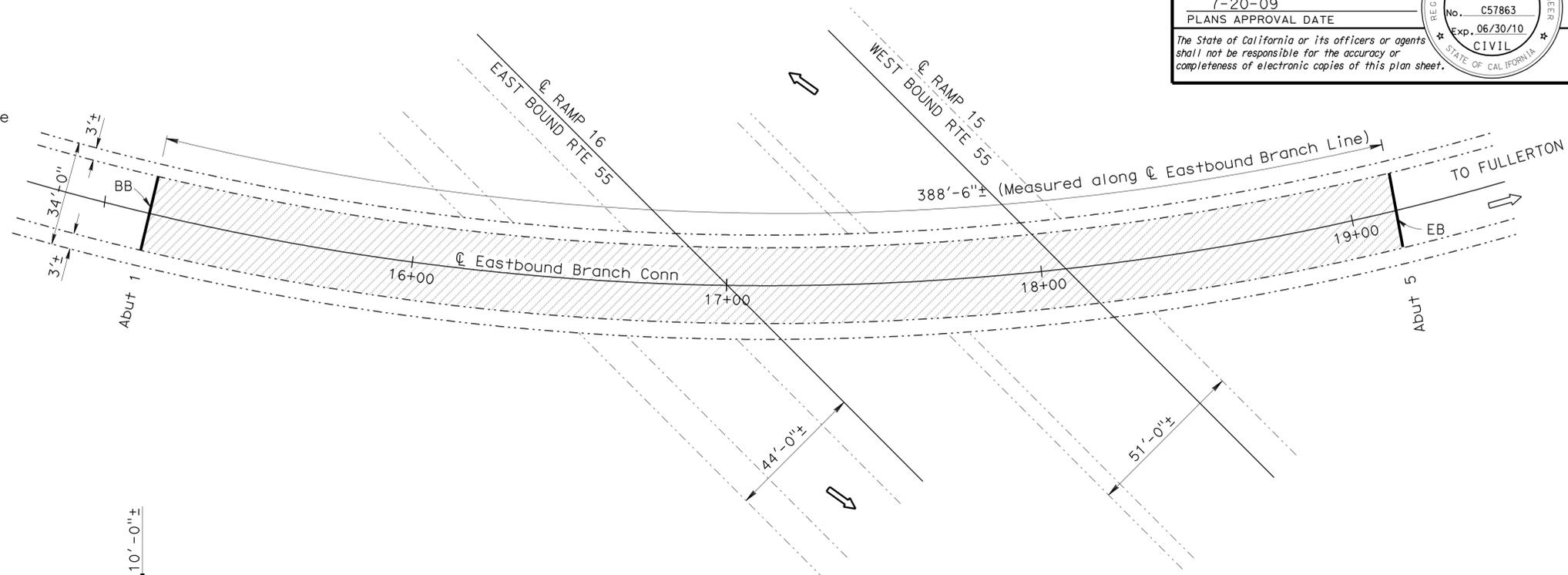
ROUTE 5,55,90,91 BRIDGES	
GENERAL PLAN NO. 1	
SHEET 1	OF 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55,90,91	Var	17	22
Tony D. Brake REGISTERED CIVIL ENGINEER DATE 05/18/09			7-20-09 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.					



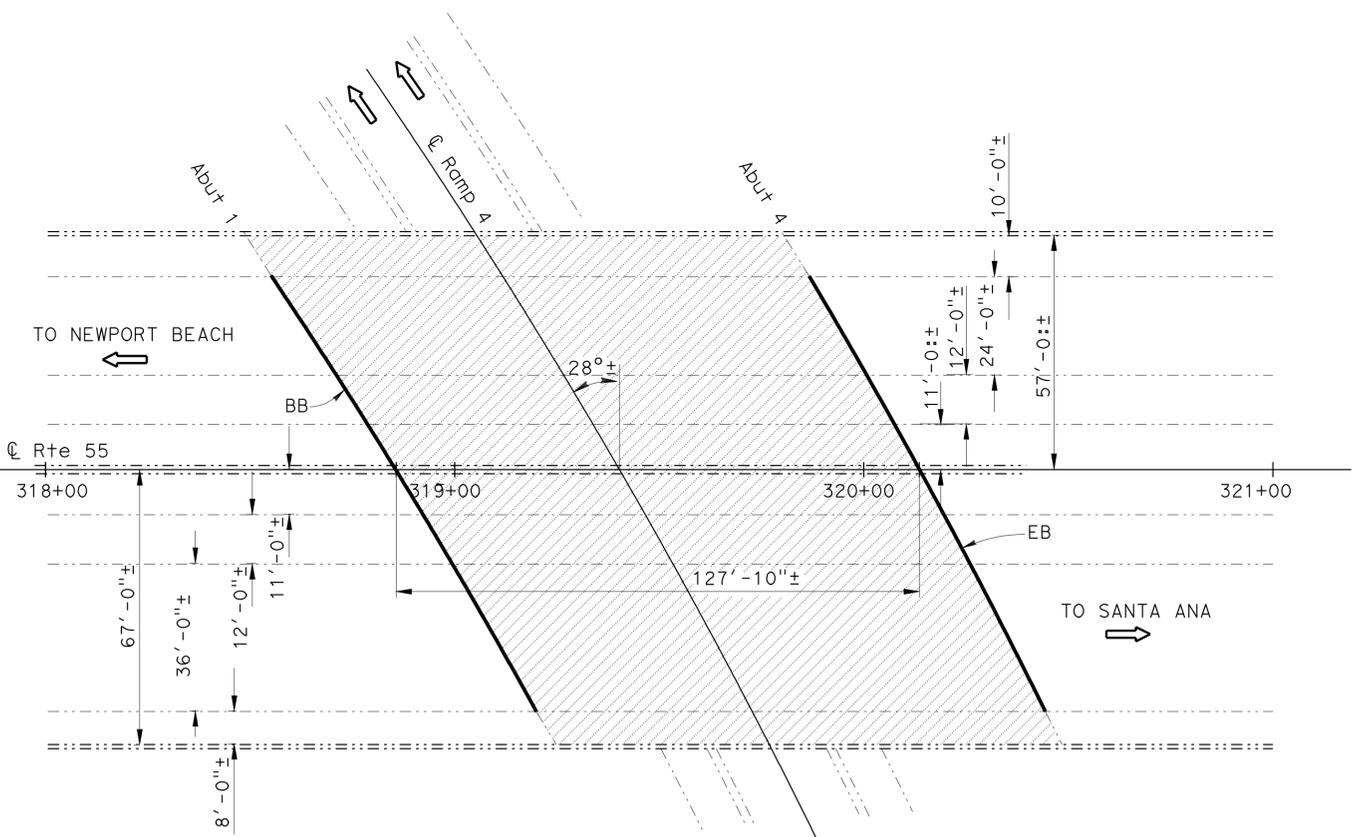
LEGEND:

- 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 limits of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint spalls.



N55-W91/55 CONNECTOR SEPARATION

Br No. 55-0321G, Rte 055, PM 17.71
NO SCALE



55/N405-S55 CONNECTOR SEPARATION

Br No. 55-0424, Rte 055, PM R6.06
NO SCALE



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

N55-W91/55 CONNECTOR SEP		BR. NO. 55-0321G
QUANTITIES		
REMOVE UNSOUND CONCRETE	30	CF
CLEAN BRIDGE DECK	10,880	SQFT
CLEAN EXPANSION JOINT	56	LF
RAPID SETTING CONCRETE (PATCH)	30	CF
JOINT SEAL (MR 2")	56	LF
TREAT BRIDGE DECK	10,880	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	136	GAL

55/N405-S55 CONNECTOR SEP		BR. NO. 55-0424
QUANTITIES		
REMOVE UNSOUND CONCRETE	40	CF
CLEAN BRIDGE DECK	15,860	SQFT
CLEAN EXPANSION JOINT	242	LF
RAPID SETTING CONCRETE (PATCH)	40	CF
JOINT SEAL (MR 2")	242	LF
TREAT BRIDGE DECK	15,860	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	198	GAL

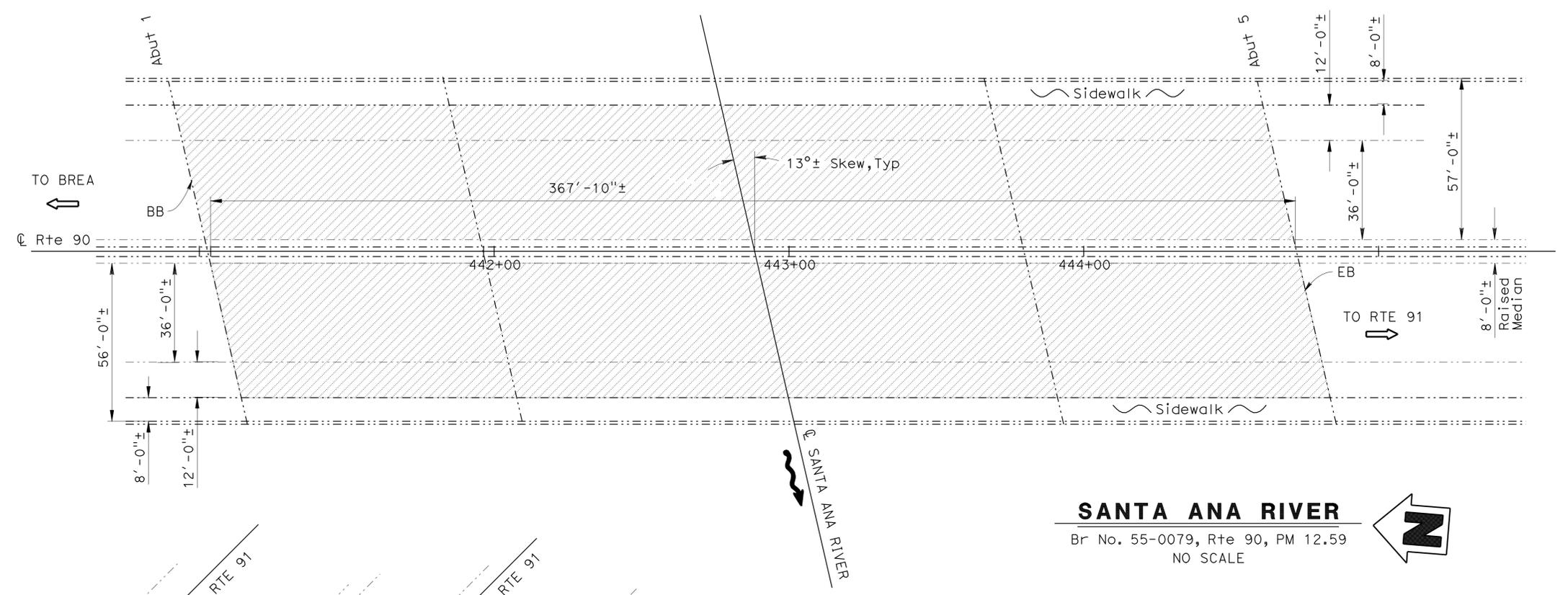
TONY D. BRAKE DESIGN ENGINEER	DESIGN	By Ramesh Patel	CHECKED Tony Brake	LOAD FACTOR DESIGN	BY Clayton Tom	LIVE LOADING: AND PERMIT DESIGN LOAD	HS20-44 AND ALTERNATIVE
	DETAILS	By Ramesh Patel	CHECKED Tony Brake	LAYOUT	BY Clayton Tom		CHECKED Tony Brake
	QUANTITIES	By Ramesh Patel	CHECKED Tony Brake	SPECIFICATIONS	BY Tanya Kershell		PLANS AND SPECS COMPARED Tanya Kershell

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	ROUTE 5,55,90,91 BRIDGES GENERAL PLAN NO. 2
	STRUCTURE MAINTENANCE DESIGN	Various	
		Varies	

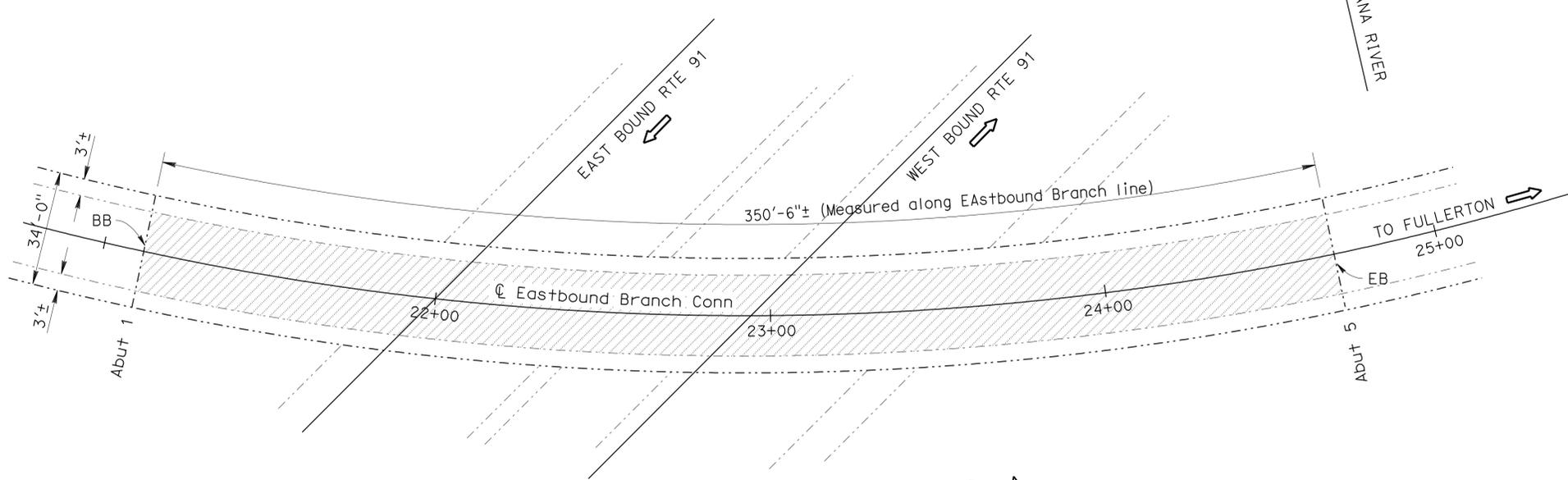
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55, 90, 91	Var	18	22
<i>Tony D. Brake</i> 05/18/09 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER Tony D. Brake No. C57863 Exp. 06/30/10 CIVIL STATE OF CALIFORNIA		
7-20-09 PLANS APPROVAL DATE					
<small>The 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.



SANTA ANA RIVER
 Br No. 55-0079, Rte 90, PM 12.59
 NO SCALE



N55-W91/91 CONNECTOR SEPARATION

Br No. 55-0329G, Rte 055, PM 17.90
 NO SCALE

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

N55-W91/91 CONNECTOR SEP		BR. NO. 55-0329G
QUANTITIES		
REMOVE UNSOUND CONCRETE		25 CF
CLEAN BRIDGE DECK	9,820	SQFT
RAPID SETTING CONCRETE (PATCH)	25	CF
TREAT BRIDGE DECK	9,820	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	123	GAL
SANTA ANA RIVER BRIDGE		BR. NO. 55-0079
QUANTITIES		
REMOVE UNSOUND CONCRETE	90	CF
CLEAN BRIDGE DECK	35,680	SQFT
RAPID SETTING CONCRETE (PATCH)	90	CF
TREAT BRIDGE DECK	35,680	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	446	GAL

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

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

BRIDGE NO. Various
 POST MILE Varies
ROUTE 5,55,90,91 BRIDGES
GENERAL PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55, 90, 91	Var	19	22
<i>Tony D. Brake</i> 05/18/09 REGISTERED CIVIL ENGINEER DATE			Tony D. Brake No. C57863 Exp. 06/30/10 CIVIL STATE OF CALIFORNIA		
7-20-09 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>					

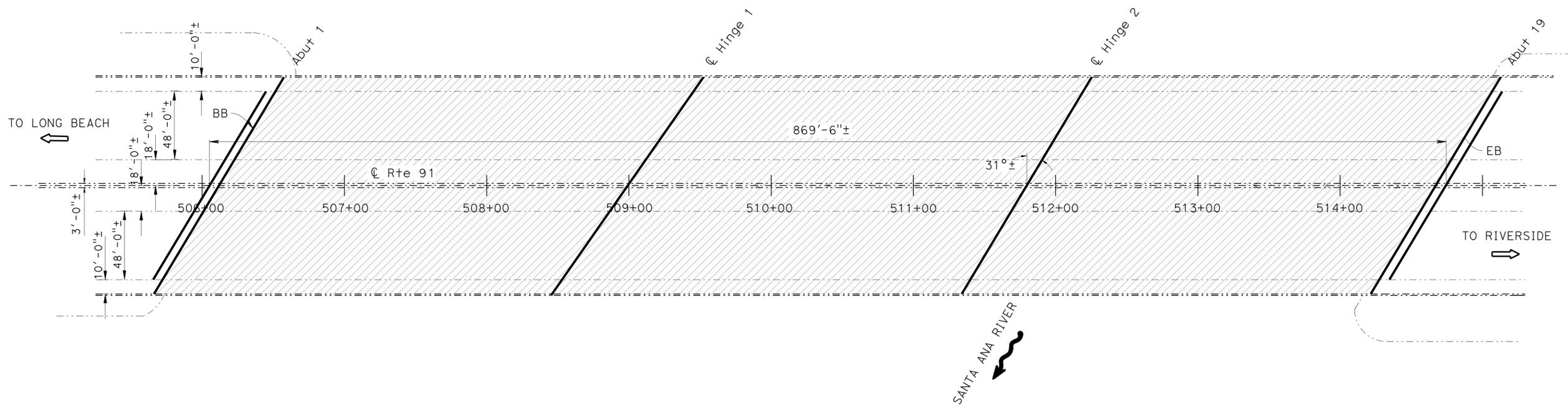
LEGEND:

- 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.
- ↘ Indicates limits of clean expansion joint and placement of new joint seal. Repair joint spalls, prior to placement of new joint seal.

SANTA ANA RIVER BRIDGE BR. NO. 55-0106

QUANTITIES

REMOVE UNSOUND CONCRETE	330	CF
CLEAN BRIDGE DECK	131,200	SQFT
CLEAN EXPANSION JOINT	1,020	LF
RAPID SETTING CONCRETE (PATCH)	330	CF
JOINT SEAL (MR 2")	1,020	LF
TREAT BRIDGE DECK	131,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,640	GAL



SANTA ANA RIVER
 Br No. 55-0106, Rte 91, PM 8.57
 NO SCALE



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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Ramesh Patel	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5,55,90,91 BRIDGES GENERAL PLAN NO. 4	
	DETAILS	BY Ramesh Patel	CHECKED Tony Brake	LAYOUT	BY Clayton Tom			CHECKED Tony Brake		POST MILE
	QUANTITIES	BY Ramesh Patel	CHECKED Tony Brake	SPECIFICATIONS	BY Tanya Kershell			PLANS AND SPECS COMPARED Tanya Kershell		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	CU 12 EA OF 3401		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES	SHEET 4 OF 7	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55, 90, 91	Var	20	22
<i>Tony D. Brake</i> 05/18/09 REGISTERED CIVIL ENGINEER DATE					
7-20-09			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>					

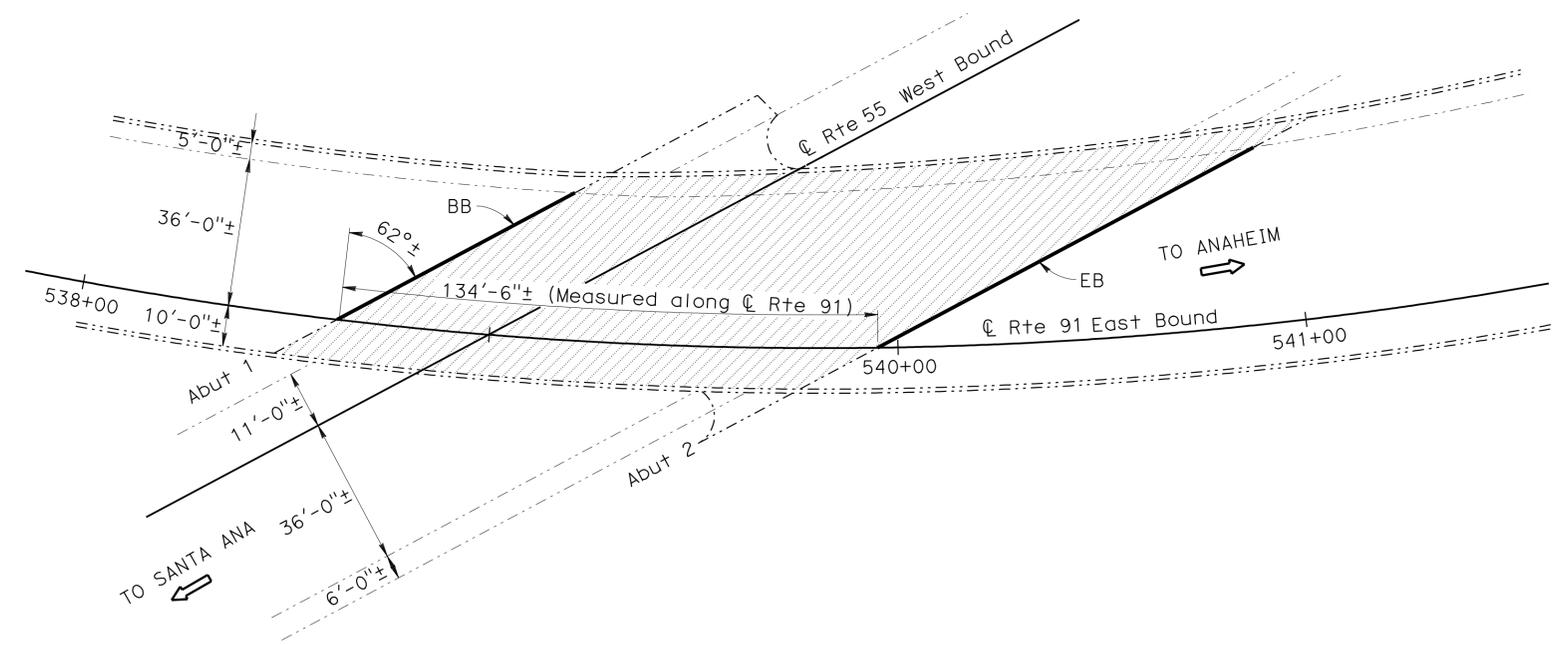
LEGEND:

- 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 rapid setting concrete.
- Indicates limits of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint spalls.

E91/91-55 FASTTRACK SEP BR. NO. 55-0493R

QUANTITIES

REMOVE UNSOUND CONCRETE	20	CF
CLEAN BRIDGE DECK	6,840	SQFT
CLEAN EXPANSION JOINT	154	LF
RAPID SETTING CONCRETE (PATCH)	20	CF
JOINT SEAL (MR 2")	154	LF
TREAT BRIDGE DECK	6,840	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	86	GAL



E91/91-55 FASTTRACK SEPARATION

Br No. 55-0493R, Rte 091, PM R9.19
NO SCALE



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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Ramesh Patel	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5,55,90,91 BRIDGES GENERAL PLAN NO. 5		
	DETAILS	BY Ramesh Patel	CHECKED Tony Brake	LAYOUT	BY Clayton Tom			CHECKED Tony Brake		POST MILE	
	QUANTITIES	BY Ramesh Patel	CHECKED Tony Brake	SPECIFICATIONS	BY Tanya Kershell			PLANS AND SPECS COMPARED Tanya Kershell		Varies	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 12 EA OF 3401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 05-18-09	SHEET 5 OF 7

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55, 90,91	Var	21	22
Tony D. Brake REGISTERED CIVIL ENGINEER DATE 05/18/09			7-20-09 PLANS APPROVAL DATE		
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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (inches)	EXISTING WATERSTOP	APPROX LENGTH (feet)	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/N405-S55 Conn Sep	55-0424	ABUTMENT 1 PN	2	NO	121	6	3	6	5
		ABUTMENT 4 PN	2	NO	121	6	3	6	5
N55-W91/55 Conn Sep	55-0321G	ABUTMENT 1 BW	2	NO	28	6	3	6	5
		ABUTMENT 5 BW	2	NO	28	6	3	6	5
SANTA ANA RIVER	55-0106	ABUTMENT 1 PN	2	NO	154	6	3	6	5
		ABUTMENT 1 BW	2	NO	178	6	3	6	5
		HINGE 1	2	YES	178	3	3	6	5
		HINGE 2	2	YES	178	3	3	6	5
		ABUTMENT 19 BW	2	NO	178	6	3	6	5
		ABUTMENT 19 PN	2	NO	154	6	3	6	5
E91/91-55 FASTTRACK	55-0493R	ABUTMENT 1 PN	2	NO	77	6	3	6	5
		ABUTMENT 2 PN	2	NO	77	6	3	6	5

NOTES:

The following notes apply to JOINT SEAL TYPE A:

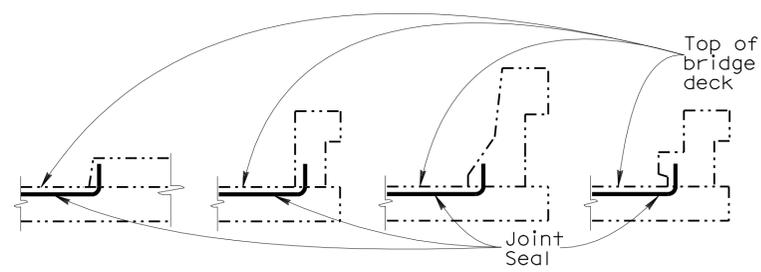
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21.

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 recalculated 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 3.0 PSI.
- 4) 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.

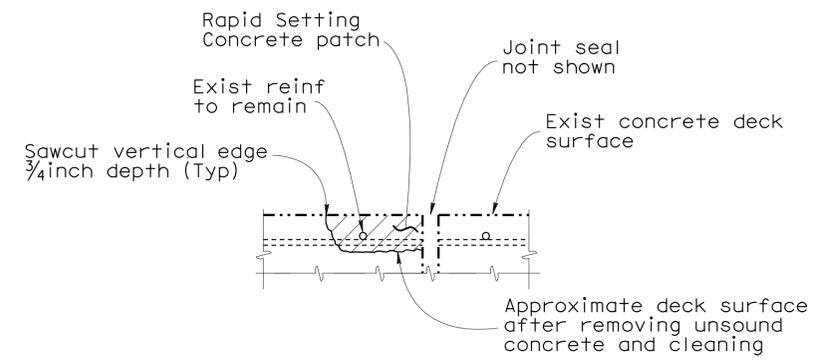


BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

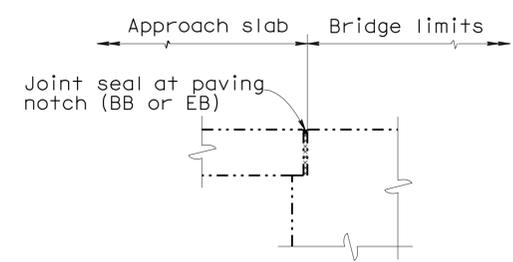
Note: Details shown for illustration purposes only.

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

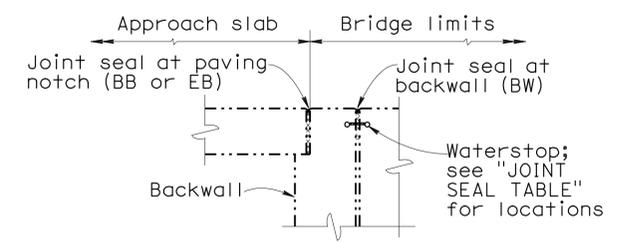


JOINT SPALL REPAIR DETAIL

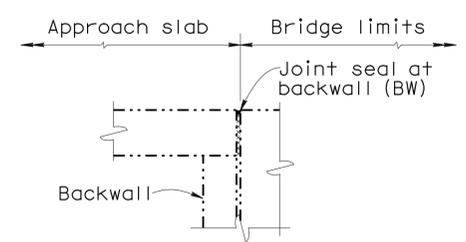
Note: Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



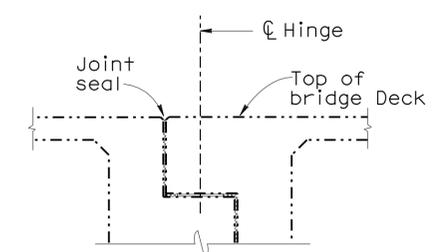
DIAPHRAGM ABUTMENT



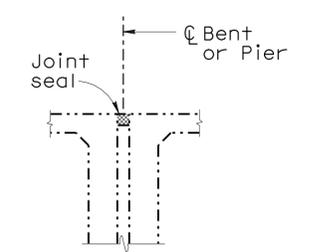
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

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DESIGN	BY	Ramesh Patel	CHECKED	Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 5,55,90,91 BRIDGES MISCELLANEOUS DETAILS NO. 1	
	DETAILS	BY	Ramesh Patel	CHECKED			Tony Brake	POST MILE		Varies
	QUANTITIES	BY	Ramesh Patel	CHECKED			Tony Brake	REVISION DATES		
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 12 EA OF 3401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-18-09	SHEET 6 OF 7	

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	5,55, 90, 91	Var	22	22

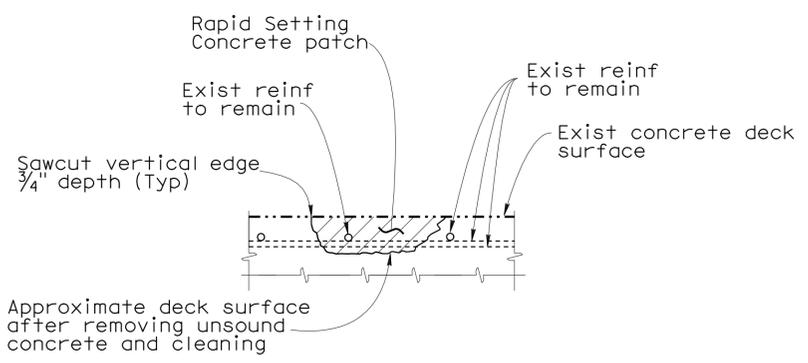
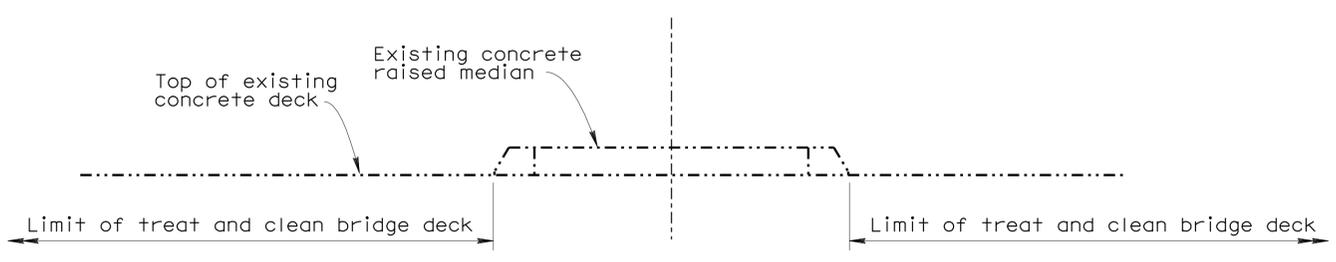
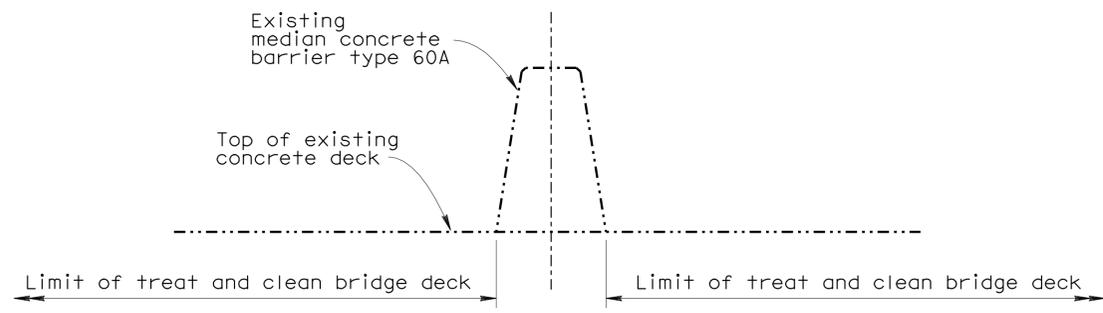
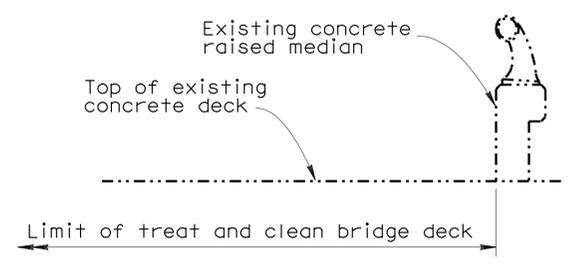
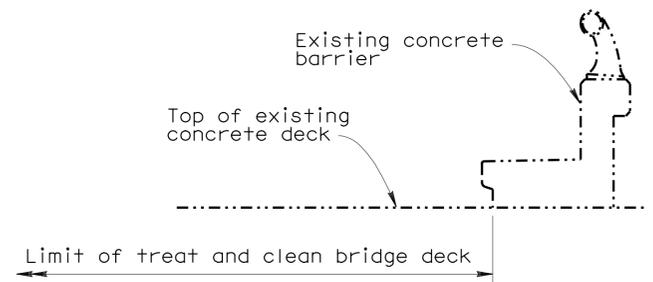
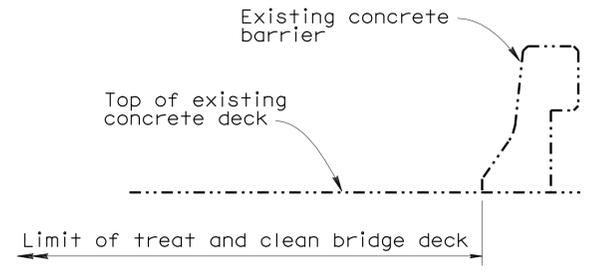
Tony D. Brake 05/18/09
 REGISTERED CIVIL ENGINEER DATE
 7-20-09
 PLANS APPROVAL DATE
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DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
N5-N57/22-N57 Conn Sep	55-0350G	1	3
ROUTE 55/405 SEPARATION	55-0252	1	3
55/N405-S55 Conn Sep	55-0424	1	3
N55-W91/55 Conn Sep	55-0321G	1	3
N55-W91/91 Conn Sep	55-0329G	1	3
SANTA ANA RIVER	55-0079	1	3
SANTA ANA RIVER	55-0106	1	3
E91/91-55 FAST TRACK Sep	55-0493R	1	3

DECK REPAIR NOTES:

- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is 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 shall 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.



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

TYPICAL LIMITS OF DECK WORK

NO SCALE

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY Ramesh Patel</td> <td style="width: 30%;">CHECKED Tony Brake</td> </tr> <tr> <td>DETAILS</td> <td>BY Ramesh Patel</td> <td>CHECKED Tony Brake</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Ramesh Patel</td> <td>CHECKED Tony Brake</td> </tr> </table>	DESIGN	BY Ramesh Patel	CHECKED Tony Brake	DETAILS	BY Ramesh Patel	CHECKED Tony Brake	QUANTITIES	BY Ramesh Patel	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various POST MILE Varies	ROUTE 5,55.90,91 BRIDGES MISCELLANEOUS DETAILS NO. 2
DESIGN	BY Ramesh Patel	CHECKED Tony Brake											
DETAILS	BY Ramesh Patel	CHECKED Tony Brake											
QUANTITIES	BY Ramesh Patel	CHECKED Tony Brake											
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 12 EA OF 3401 DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 7 OF 7								

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