

INDEX OF PLANS

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STRUCTURE PLANS

10-11 CAJON CREEK BRIDGE, Br No. 54-0781L

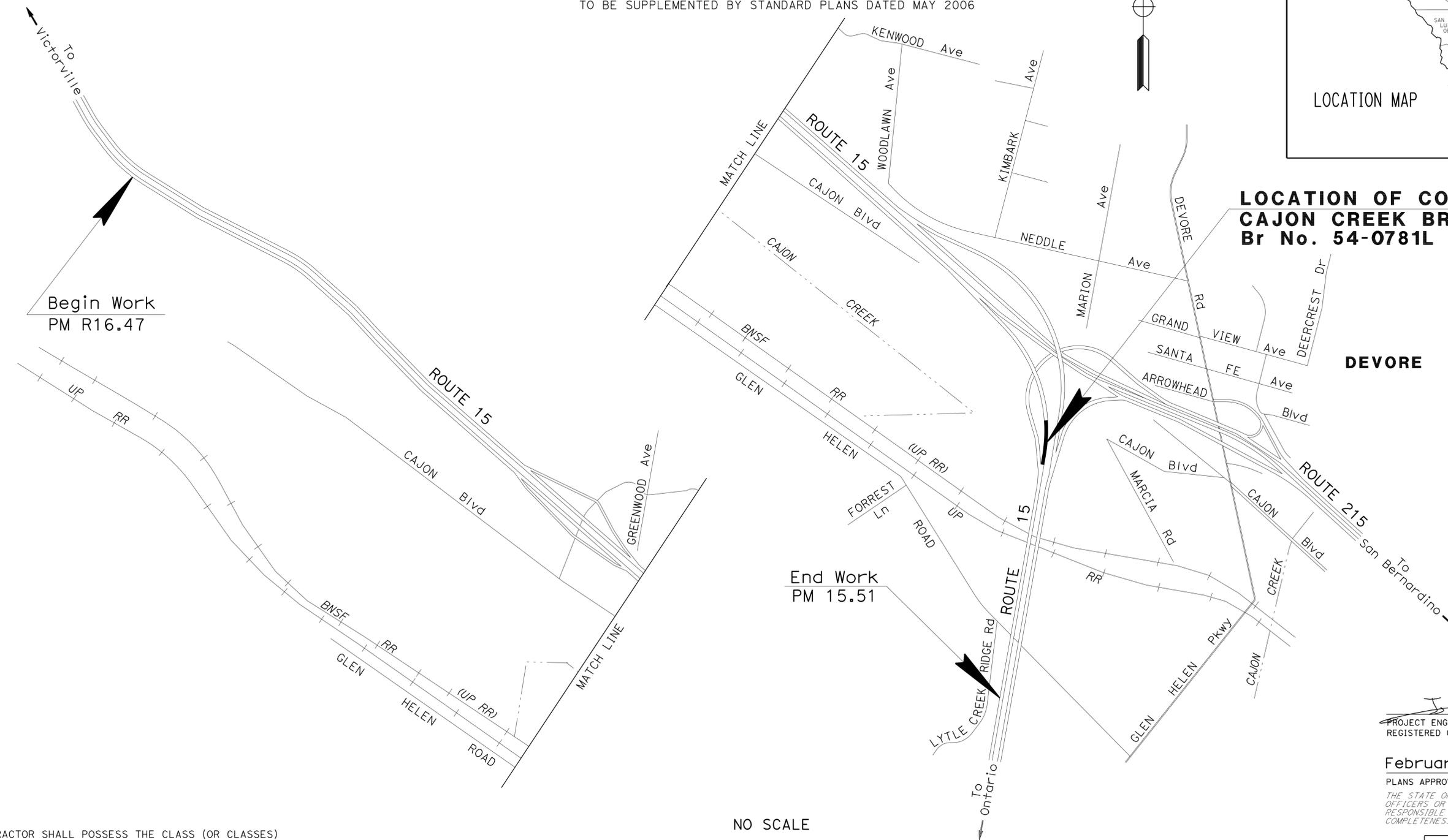
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**
IN SAN BERNARDINO COUNTY
NEAR DEVORE
AT CAJON CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	15	16.1	1	11

LOCATION MAP



**LOCATION OF CONSTRUCTION
CAJON CREEK BRIDGE
Br No. 54-0781L PM 16.1**

DEVORE

Begin Work
PM R16.47

End Work
PM 15.51

NO SCALE

PROJECT ENGINEER DATE 12-30-09
 REGISTERED CIVIL ENGINEER
 February 1, 2010
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No. C74762
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

PROJECT MANAGER CATALINO PINING	DESIGN ENGINEER IYAD NAMY
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THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN A

FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: KEVIN NGUYEN
 CHECKED BY: THANH TRINH
 REVISED BY: DATE
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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08	SBd	15	16.1	2	11

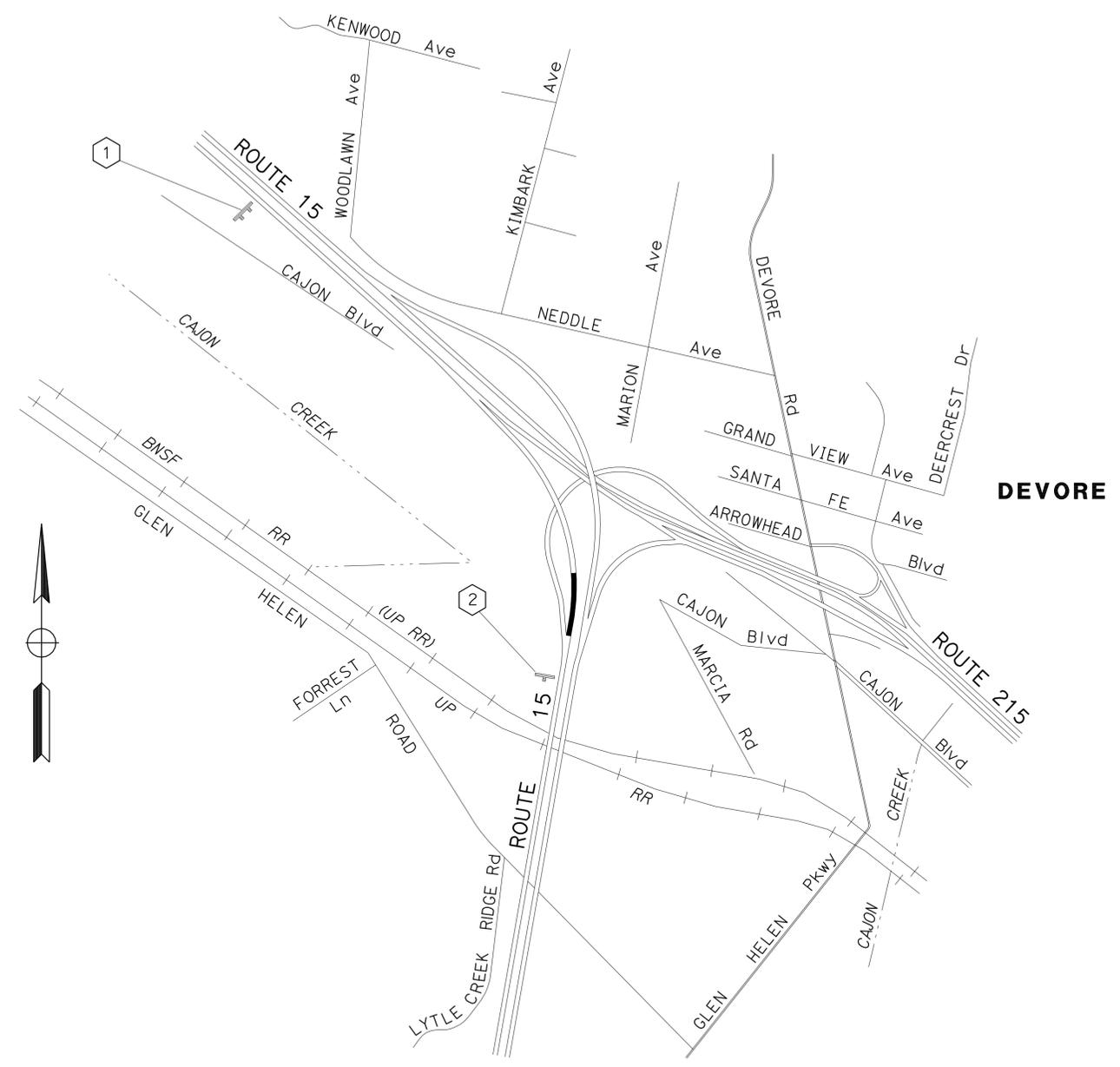
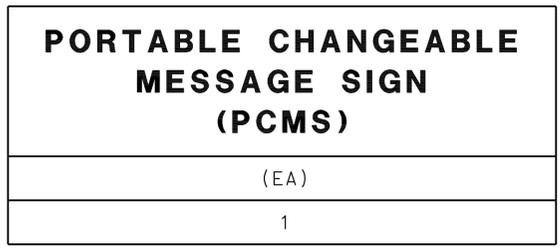
Thanh Trinh 12-30-09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE
 T. TRINH
 No. C41189
 Exp. 3-31-11
 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- USE STANDARD PLANS T10, T15 AND T16 FOR TRAFFIC CONTROL SYSTEM.
- PORTABLE CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

LEGEND

- CONSTRUCTION AREA SIGN No.
- ONE-POST SIGN
- TWO-POST SIGN



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST(S) AND SIZE	No. OF SIGNS (N)
		(In X In)		(In X In)	(EA)
1	W20-1	60" X 60"	ROAD WORK AHEAD	2 - 4" X 6"	1
2	G20-2	48" X 18"	END ROAD WORK	1 - 4" X 4"	1
TOTAL					2

(N) - NOT A SEPARATE PAY ITEM; FOR INFORMATION ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN IS ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

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

BORDER LAST REVISED 4/11/2008

FUNCTIONAL SUPERVISOR
 BILL WASSER

CALCULATED-DESIGNED BY
 CHECKED BY

KEVIN NGUYEN
 THANH TRINH

REVISED BY
 DATE REVISED

PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)	
		4" WHITE	4" YELLOW		TYPE G	TYPE H
		LF			EA	
CAJON CREEK BRIDGE (BRIDGE No. 54-0781L)	DETAIL 12	1160		26	26	
	DETAIL 25		580	14		14
	DETAIL 27B	580				
SUBTOTAL		1740	580	40	26	14
TOTAL		2320		40	40	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	16.1	3	11

Thanh Trinh 12-30-09
 REGISTERED CIVIL ENGINEER DATE

2-1-10
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

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RELATIVE BORDER SCALE IS IN INCHES



USERNAME => trlenard
 DGN FILE => 80j920nc001.dgn

CU 08380

EA 0J9201

LAST REVISION | DATE PLOTTED => 04-FEB-2010
 12-30-09 | TIME PLOTTED => 13:22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

BORDER LAST REVISED 4/11/2008

FUNCTIONAL SUPERVISOR
 KEVIN CHEN

CALCULATED-DESIGNED BY
 CHECKED BY

IYAD NAMY
 KEVIN H. CHEN

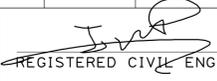
REVISED BY
 DATE REVISED

TEMPORARY WATER POLLUTION CONTROL		
DESCRIPTION	UNIT	QUANTITY
CONSTRUCTION SITE MANAGEMENT	LS	LS
PREPARE A STORM WATER POLLUTION CONTROL PROGRAM (WPCP)	LS	LS
TEMPORARY FIBER ROLL	LF	200
TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LS

SUMMARY OF QUANTITIES

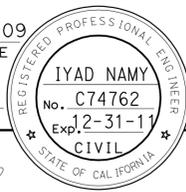
Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	16.1	4	11

 12-30-09
 REGISTERED CIVIL ENGINEER DATE

2-1-10
 PLANS APPROVAL DATE

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RELATIVE BORDER SCALE IS IN INCHES



USERNAME => trlenard
 DGN FILE => 80j920pa001.dgn

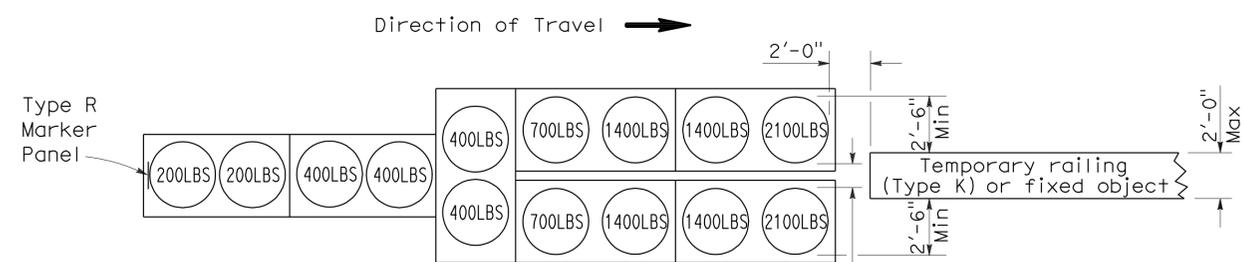
CU 08608

EA 0J9201

LAST REVISION | DATE PLOTTED => 04-FEB-2010
 12-30-09 | TIME PLOTTED => 13:22

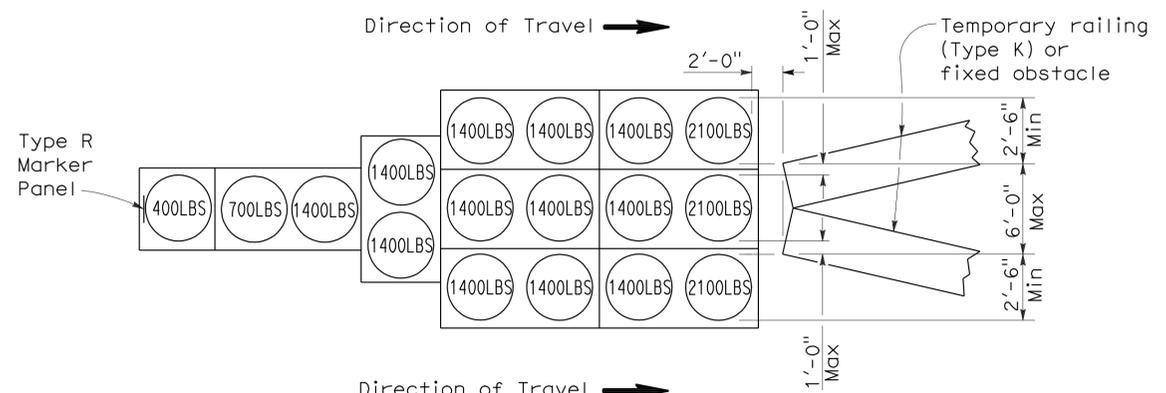
To accompany plans dated 2-1-10

2006 REVISED STANDARD PLAN RSP T1A



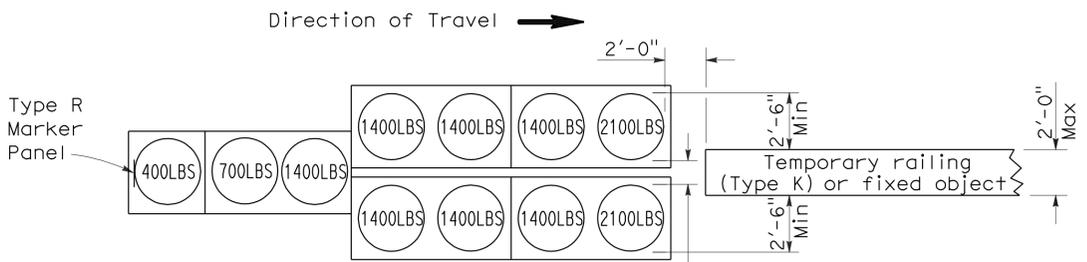
ARRAY 'TU14'

Approach speed 45 mph or more



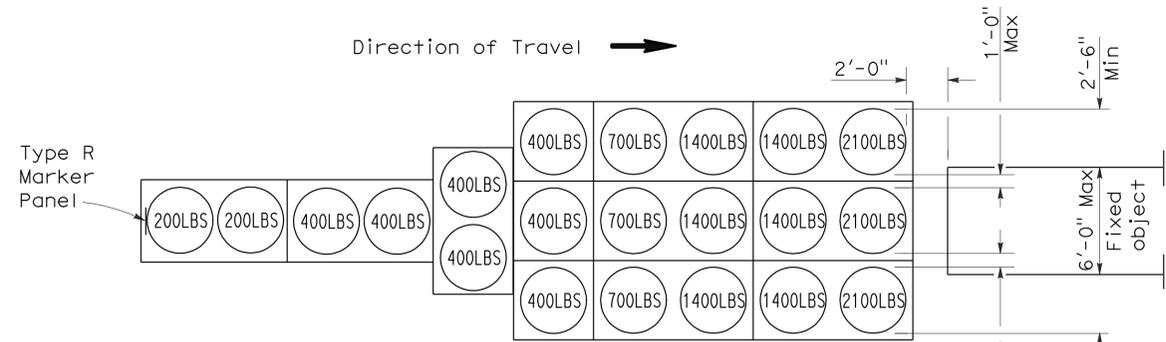
ARRAY 'TU17'

Approach speed less than 45 mph



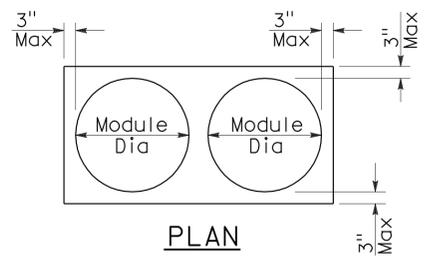
ARRAY 'TU11'

Approach speed less than 45 mph

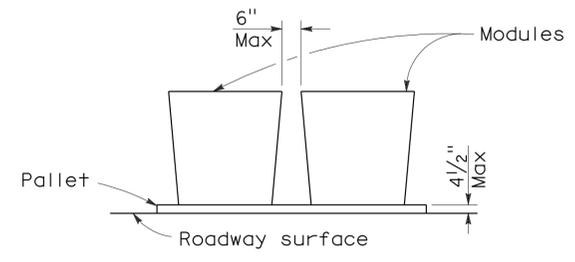


ARRAY 'TU21'

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
08	SBd	15	16.1	6	11

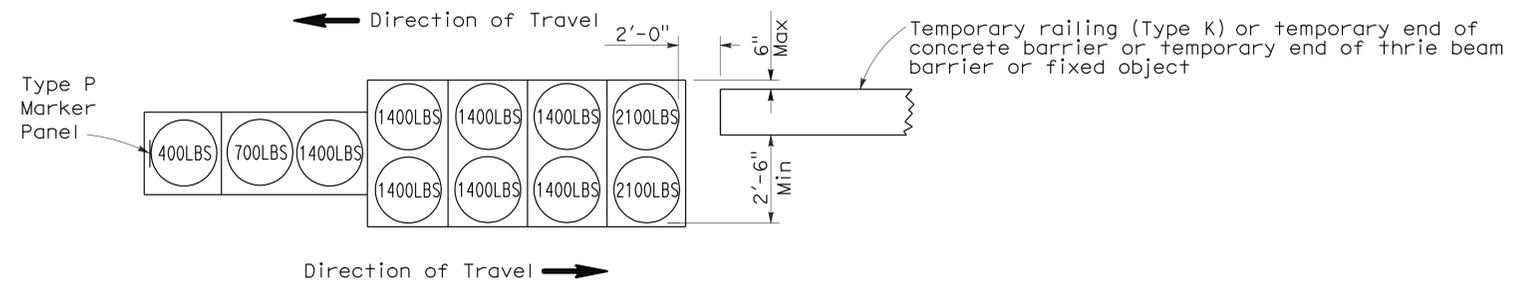
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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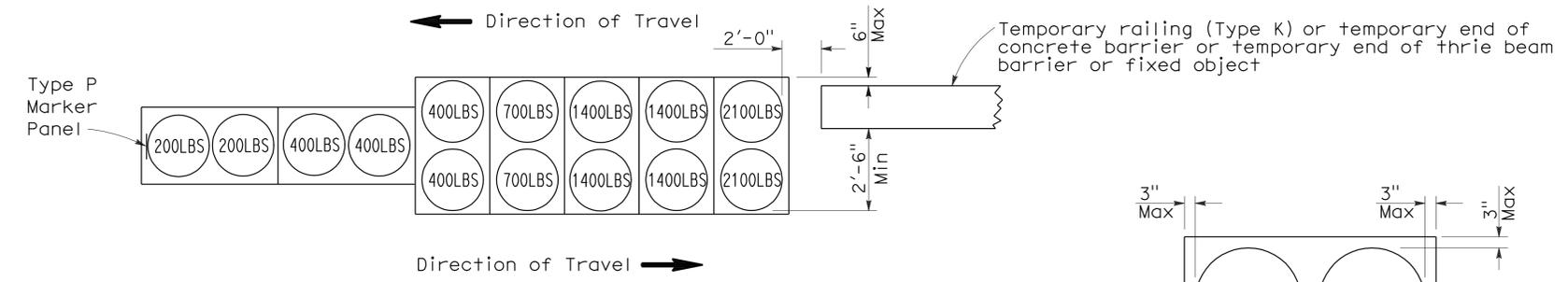
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-1-10



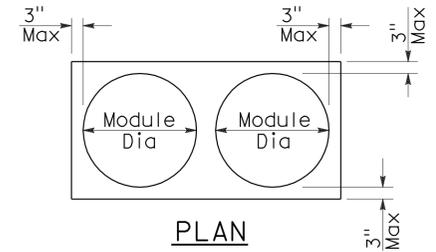
ARRAY 'TB11'

Approach speed less than 45 mph

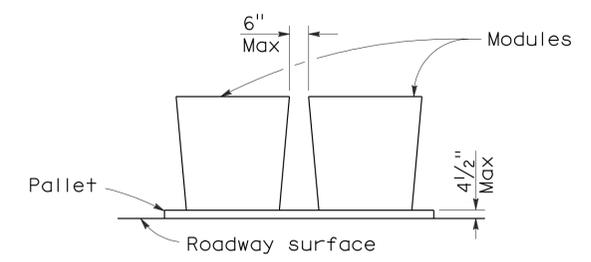


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	16.1	7	11

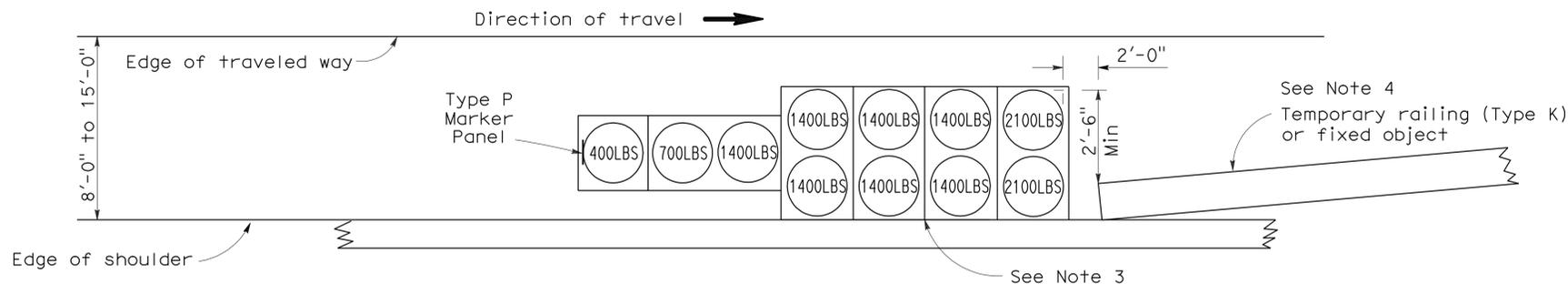
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

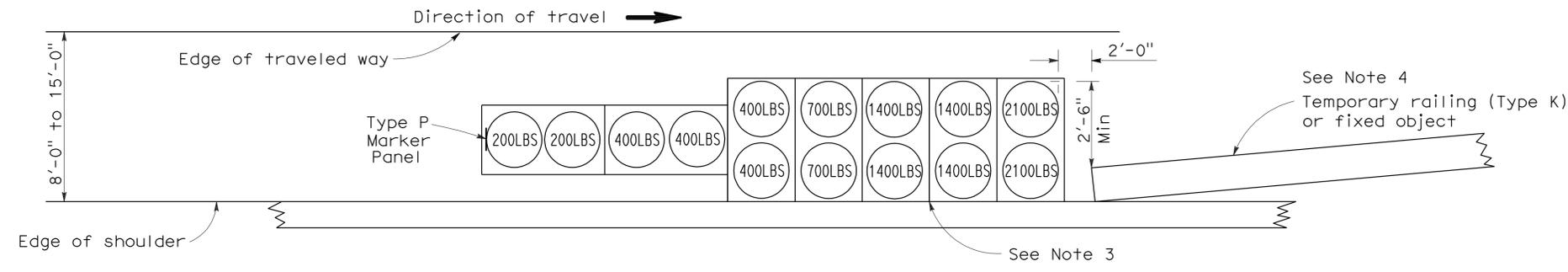
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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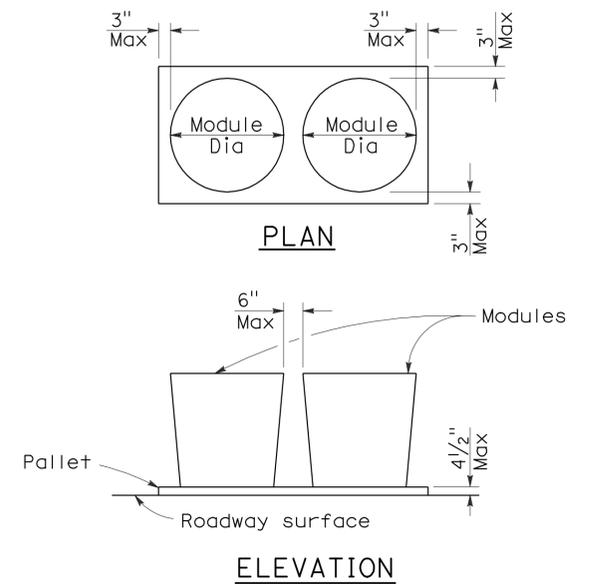
To accompany plans dated 2-1-10



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.

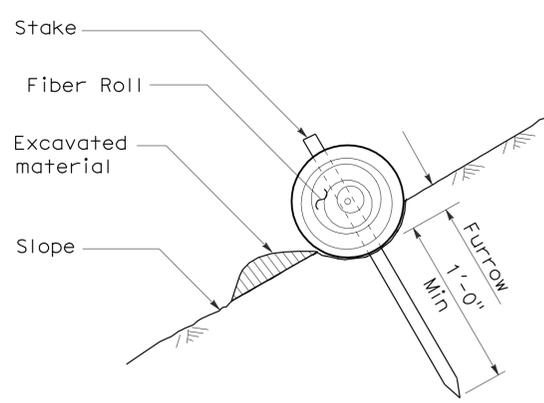
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

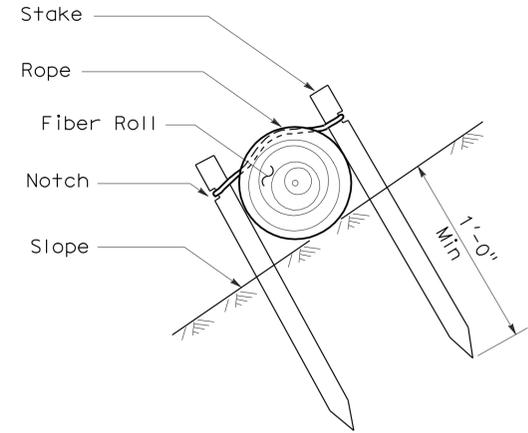
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	16.1	8	11

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.

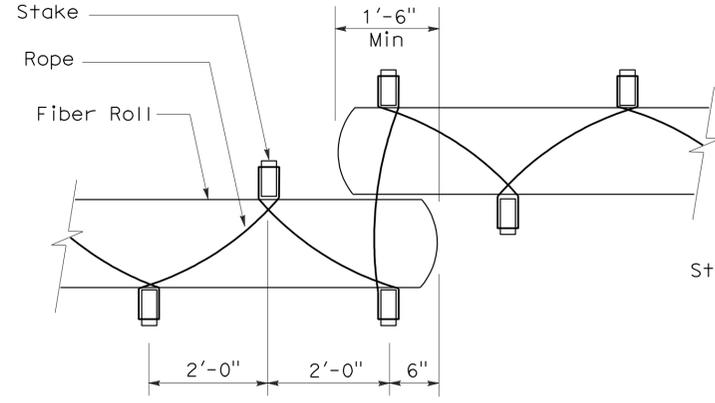
To accompany plans dated 2-1-10



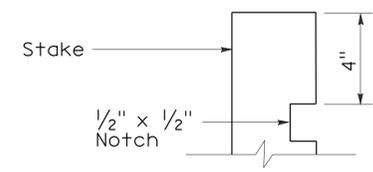
SECTION
TEMPORARY FIBER ROLL (TYPE 1)



SECTION
TEMPORARY FIBER ROLL (TYPE 2)

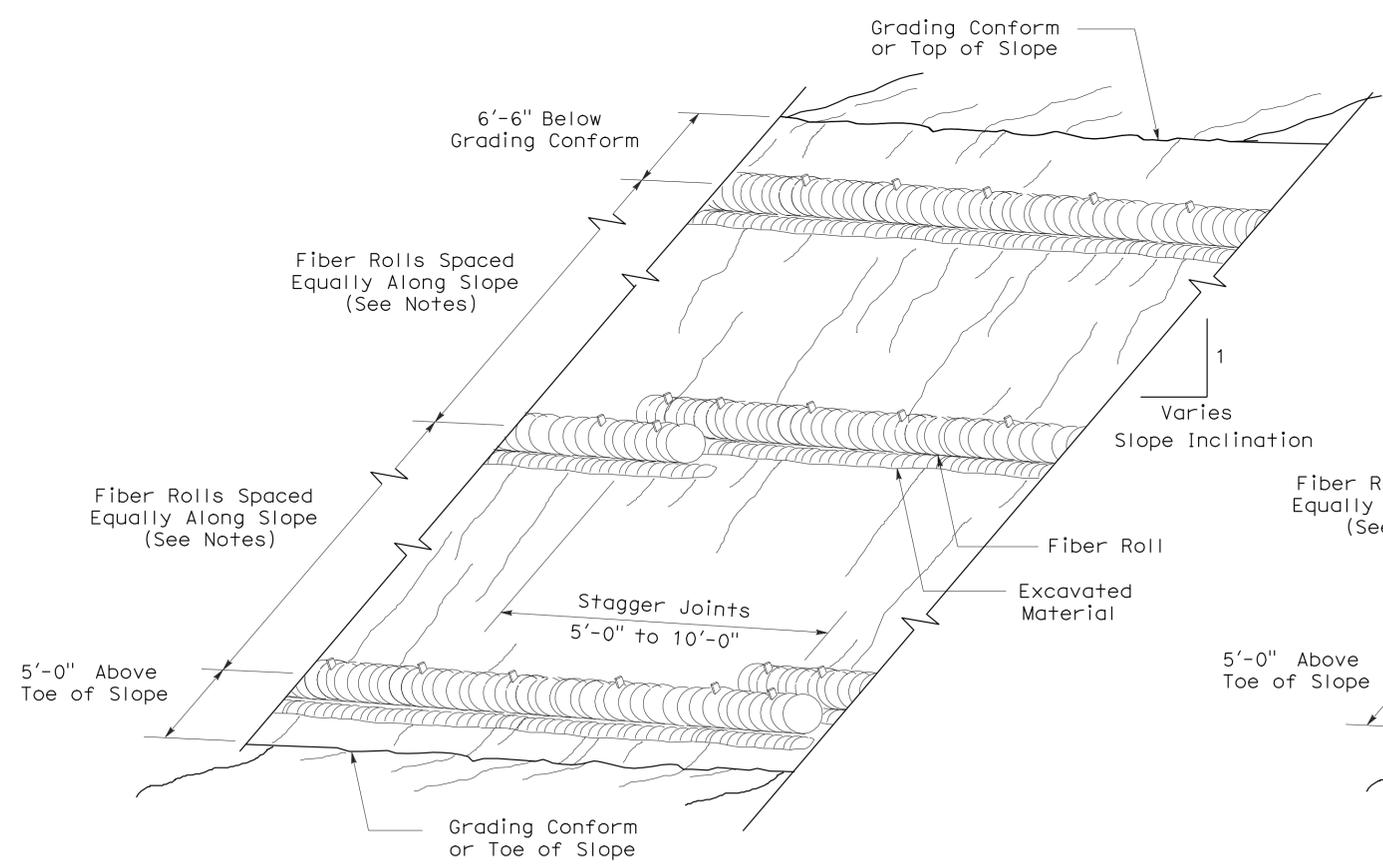


PLAN
TEMPORARY FIBER ROLL (TYPE 2)

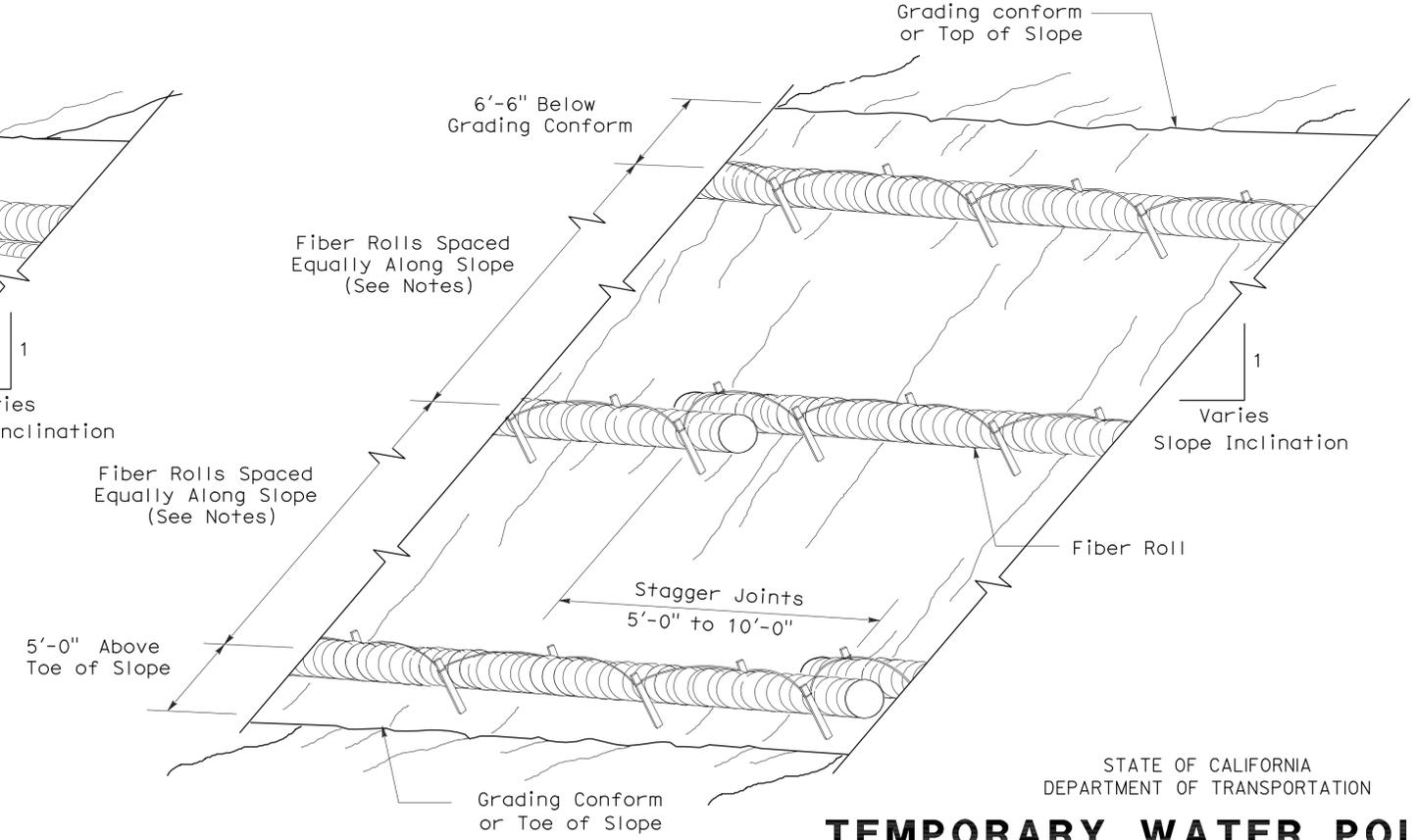


ELEVATION
STAKE NOTCH DETAIL

- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
 2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

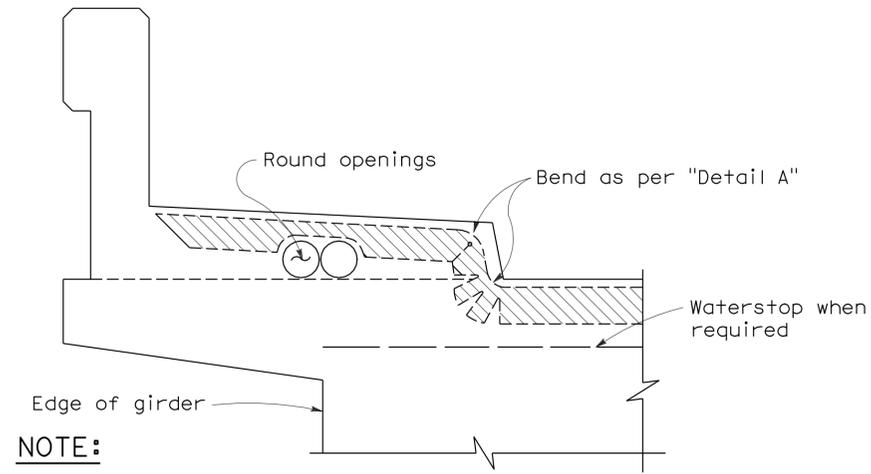
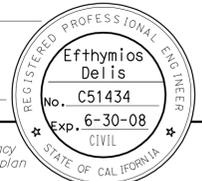
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

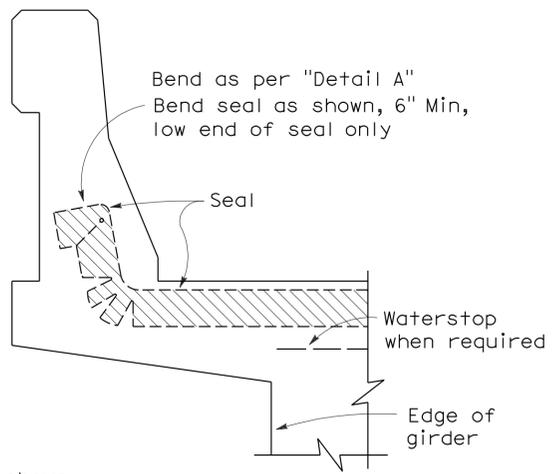
REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

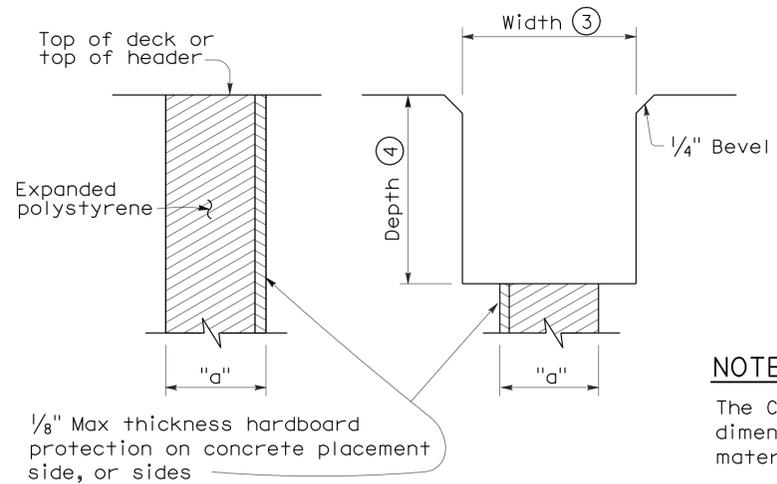


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



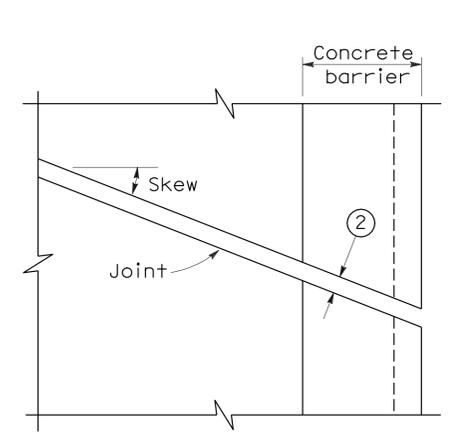
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

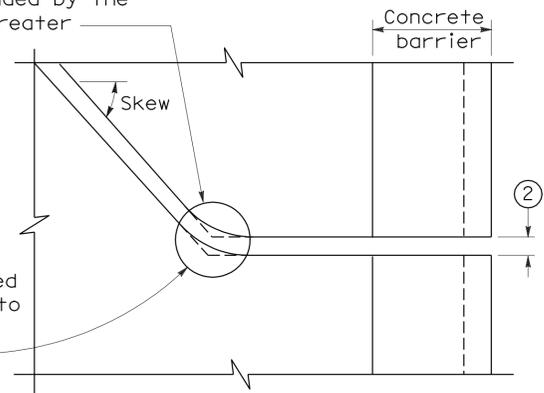
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



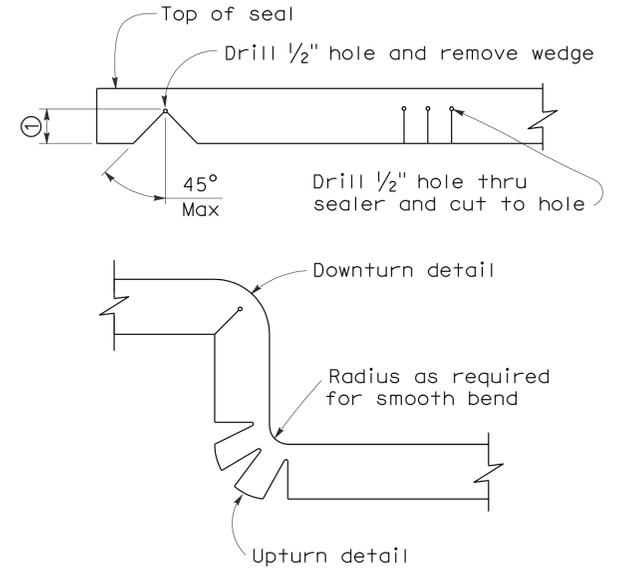
PLAN OF JOINT (SKEW ≤ 20°)

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.



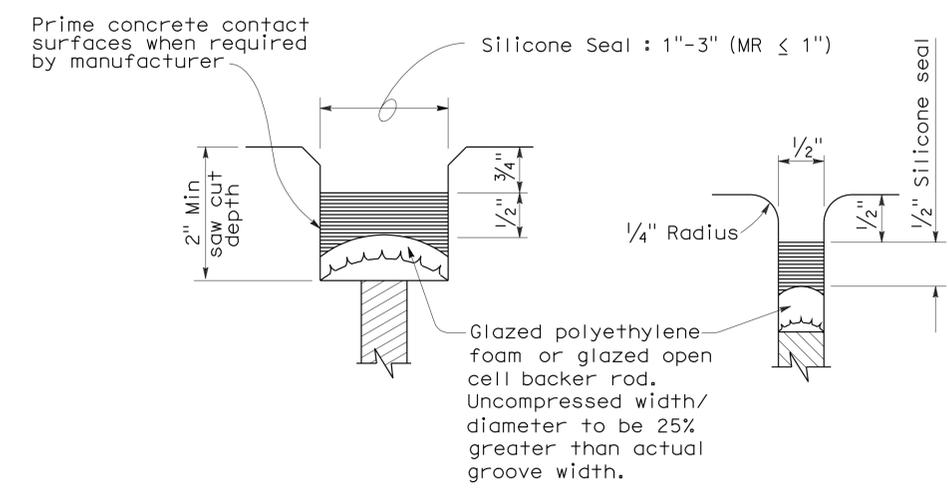
DETAIL A

- 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

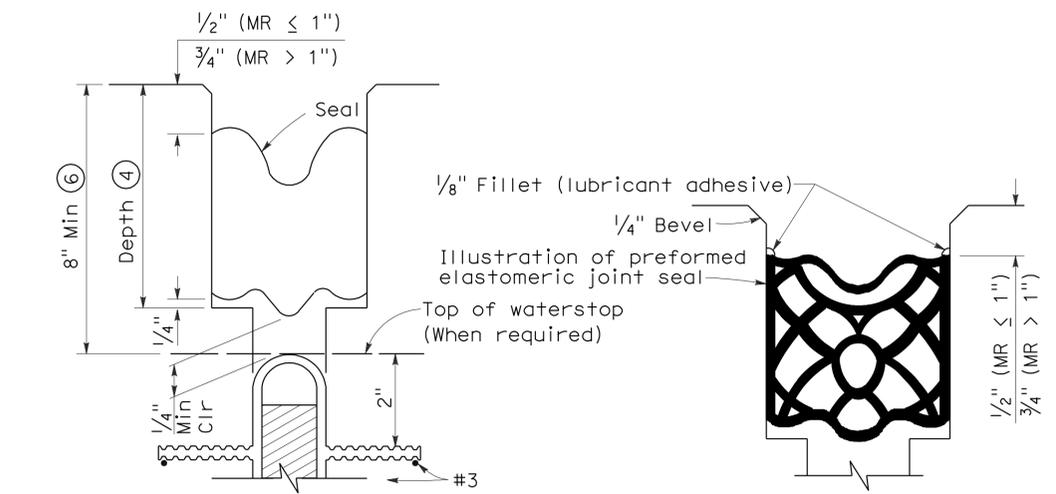


TYPE A SEAL

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
08	SBd	15	16.1	10	11

12/08/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

JONG J. LU
No. C 49364
Exp. 09/30/10
CIVIL
STATE OF CALIFORNIA

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

ACOM/LAN
20 Empire
Lake Forest, CA 92630

CNS ENGINEERS, INC.
10370 Hemet Street, Suite 340
Riverside, CA 92503

INDEX TO PLANS

SHEET No.	TITLE
1.	GENERAL PLAN
2.	DECK REHABILITATION DETAILS

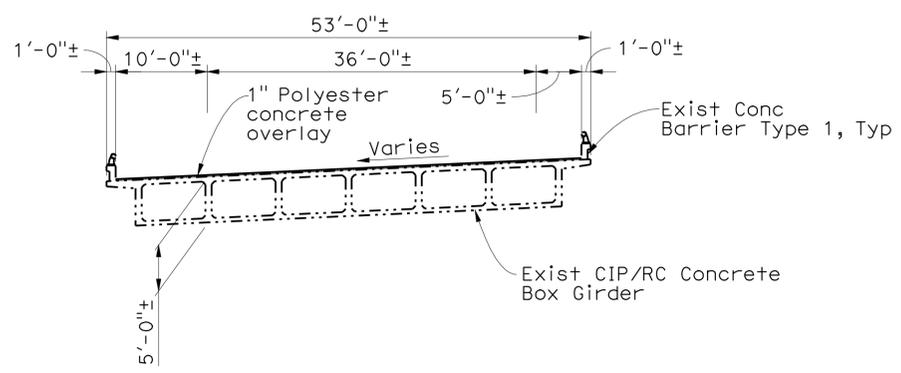
STANDARD PLANS DATED MAY 2006

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")

**DECK REPAIR TABLE
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)**

BRIDGE NAME	BRIDGE No.	APPROXIMATE AREA DAMAGED	APPROXIMATE DEPTH
CAJON CREEK BRIDGE - LEFT BRIDGE	54-0781L	1%	3"

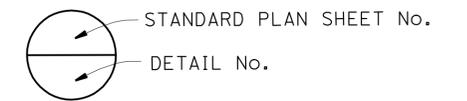
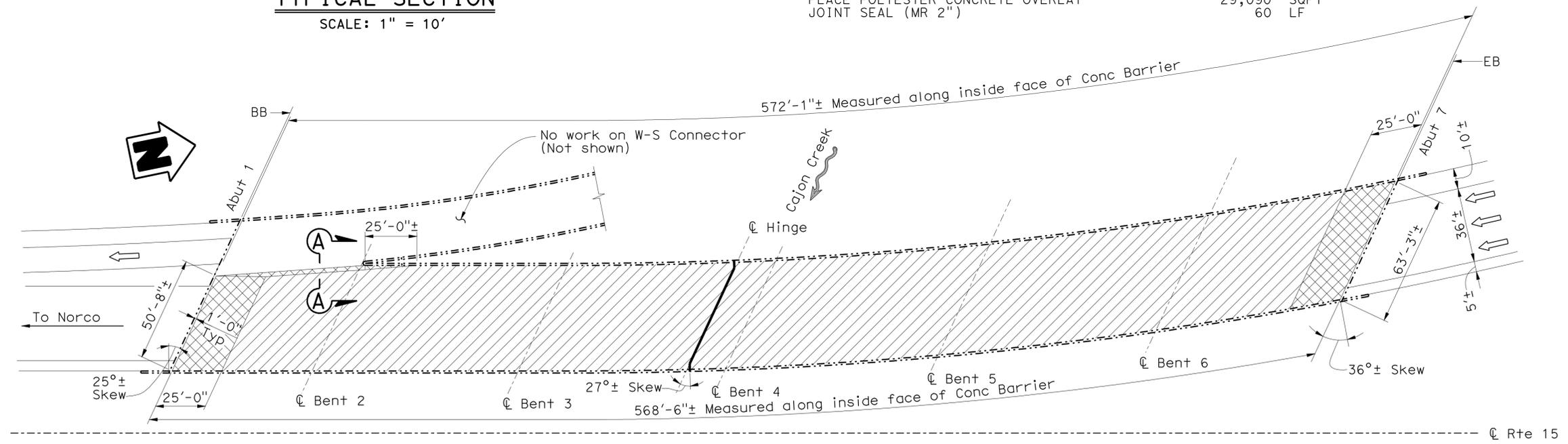
- LEGEND:**
- Existing structure.
 - Location of remove exist joint seal, clean expansion joint and place new joint seal. Prior to placement of new joint seal, repair joint spalls.
 - ▨ Limits of prepare concrete bridge deck surface, furnish and place 1" Min depth polyester concrete overlay. Prior to placing polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Overlay Detail" on "Deck Rehabilitation Details" sheet.
 - ▩ Limits of remove concrete deck surface, prepare concrete bridge deck surface, furnish and place 3/4" Min depth polyester concrete overlay. For details, see "Taper Detail" on "Deck Rehabilitation Details" sheet.
 - ⇒ Indicates direction of traffic.



TYPICAL SECTION
SCALE: 1" = 10'

CAJON CREEK BRIDGE QUANTITIES 54-0781L

REMOVE CONCRETE DECK SURFACE	2,550	SQFT
REMOVE UNSOUND CONCRETE	77	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	29,090	SQFT
CLEAN EXPANSION JOINT	60	LF
RAPID SETTING CONCRETE (PATCH)	77	CF
FURNISH POLYESTER CONCRETE OVERLAY	2,450	CF
PLACE POLYESTER CONCRETE OVERLAY	29,090	SQFT
JOINT SEAL (MR 2")	60	LF



Note:
For Section A-A, see "Deck Rehabilitation Details" sheet.

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

No work on Cajon Creek Bridge-Right Bridge Br. No. 54-0781R (Not shown)

CAJON CREEK BRIDGE-LEFT BRIDGE
BR. No. 54-0781L
SCALE: 1" = 30'

Tony D. Brake DESIGN OVERSIGHT 12/08/09 SIGN OFF DATE	DESIGN BY L. Maharjan DETAILS BY E. Baltay QUANTITIES BY L. Maharjan	CHECKED Q. Nguyen CHECKED Q. Nguyen CHECKED Q. Nguyen	LOAD FACTOR DESIGN LAYOUT SPECIFICATIONS	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD BY E. Baltay BY J. Lu	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	James Lu PROJECT ENGINEER	BRIDGE NO. 54-0781L POST MILES 16.1	CAJON CREEK BRIDGE GENERAL PLAN			
DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 08 380 EA 0J9380	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 1 OF 2

USERNAME => h11engrd DATE PLOTTED => 04-FEB-2010 TIME PLOTTED => 13:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	16.1	11	11

12/08/09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 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.

JONG J. LU
 No. C 49364
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA

AECOM/LAN
 20 Empire
 Lake Forest, CA 92630
 CNS ENGINEERS, INC.
 10370 Hemet Street, Suite 340
 Riverside, CA 92503

JOINT SEAL TABLE

BRIDGE No.	LOCATION	MINIMUM "MR"	APPROXIMATE LENGTH	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT	APPROX DEPTH OF JOINT SPALLS	APPROX WIDTH OF JOINT SPALLS	APPROX LENGTH OF JOINT SPALLS
54-0781L	Span 3, Hinge	2"	60'	Yes	8"	3"	6"	5'

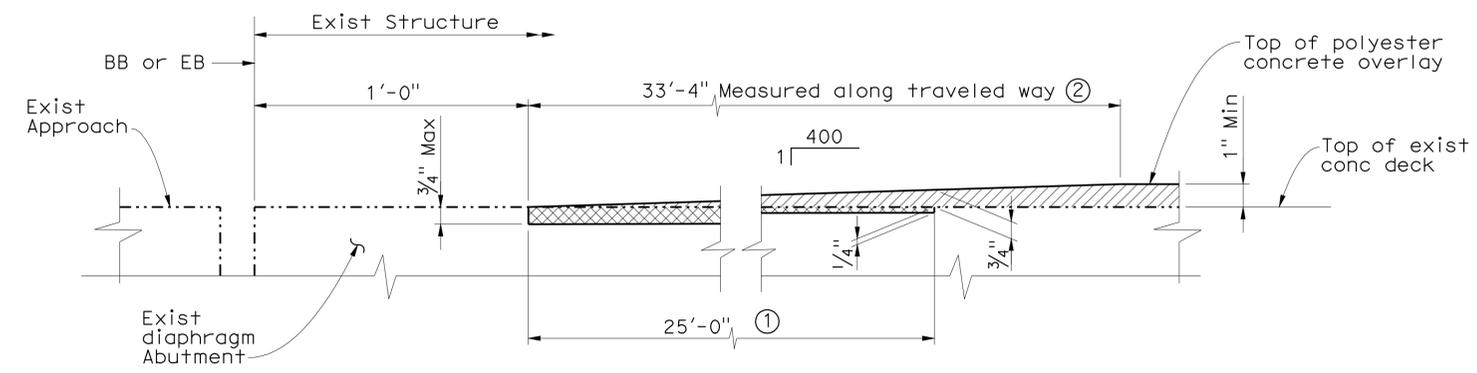
LEGEND:

Polyester Concrete overlay.

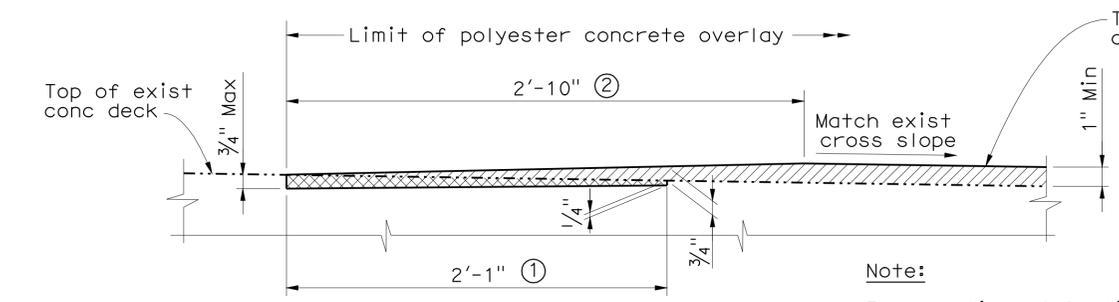
Limits of remove concrete deck surface, prepare concrete bridge deck surface, furnish and place polyester concrete overlay.

Limits of remove unsound concrete, cleaning, and rapid setting concrete or polyester concrete patch.

- Notes:**
- ① Limit of remove concrete deck surface from 1/4" Min to 3/4" Max depth.
 - ② Limit of deck surface transition from top of polyester concrete overlay to top of exist concrete deck.

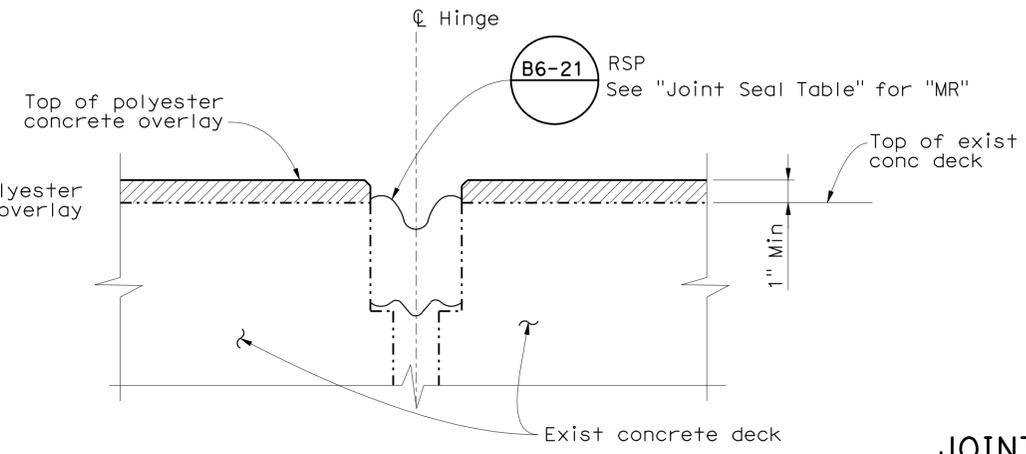


TAPER DETAIL
 SCALE: 3" = 1'

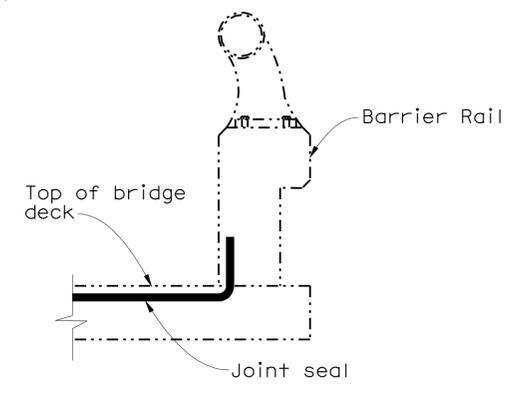


SECTION A-A
 No Scale

Note:
 For location of Section A-A, see "General Plan" sheet.



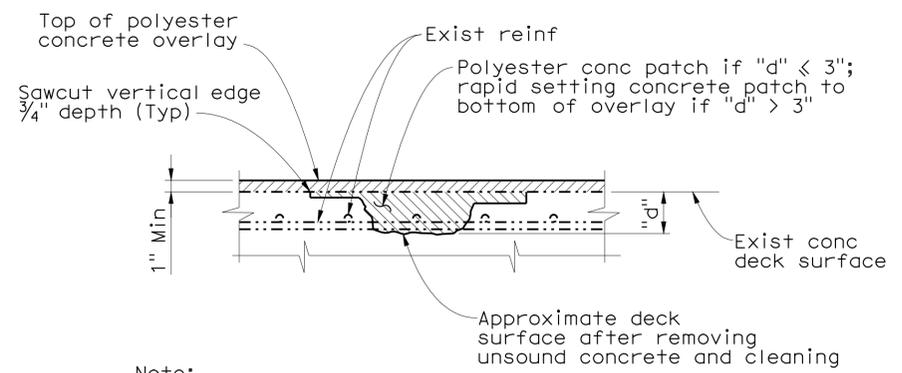
OVERLAY DETAIL AT HINGE
 3" = 1'-0"



BARRIER RAIL

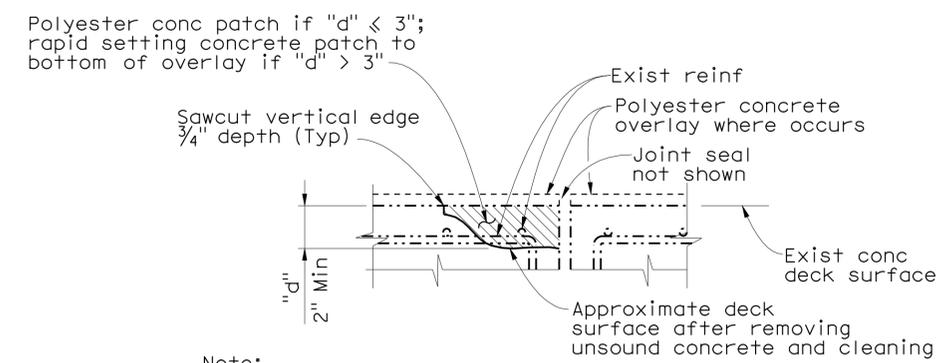
JOINT SEAL AT LOW SIDE OF DECK

Notes: Detail shown for illustration purpose only. For use only where deck joint matches the barrier rail joint.



DECK OVERLAY DETAIL
 No Scale

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



JOINT SPALL REPAIR DETAIL
 No Scale

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

- 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" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
 5. For details not shown, see **B6-21** RSP

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

Tony D. Brake DESIGN OVERSIGHT 12/08/09 SIGN OFF DATE	DESIGN BY: L. Maharjan DETAILS BY: E. Baltay QUANTITIES BY: L. Maharjan	CHECKED Q. Nguyen CHECKED Q. Nguyen CHECKED Q. Nguyen	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	James Lu PROJECT ENGINEER	BRIDGE NO. 54-0781L POST MILE 16.1	CAJON CREEK BRIDGE DECK REHABILITATION DETAILS
DESIGN DETAIL SHEET (ENGLISH) (REV. 2/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 380 EA 0J9380	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 5/25/09 9/08/09 10/16/09 12/08/09
						SHEET 2 OF 2

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