

INDEX OF PLANS

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STRUCTURE PLANS

11-15 ROUTE 58 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 KERN COUNTY NEAR TEHACHAPI
AT SUMMIT OVERHEAD
AND AT SAND CANYON OVERHEAD

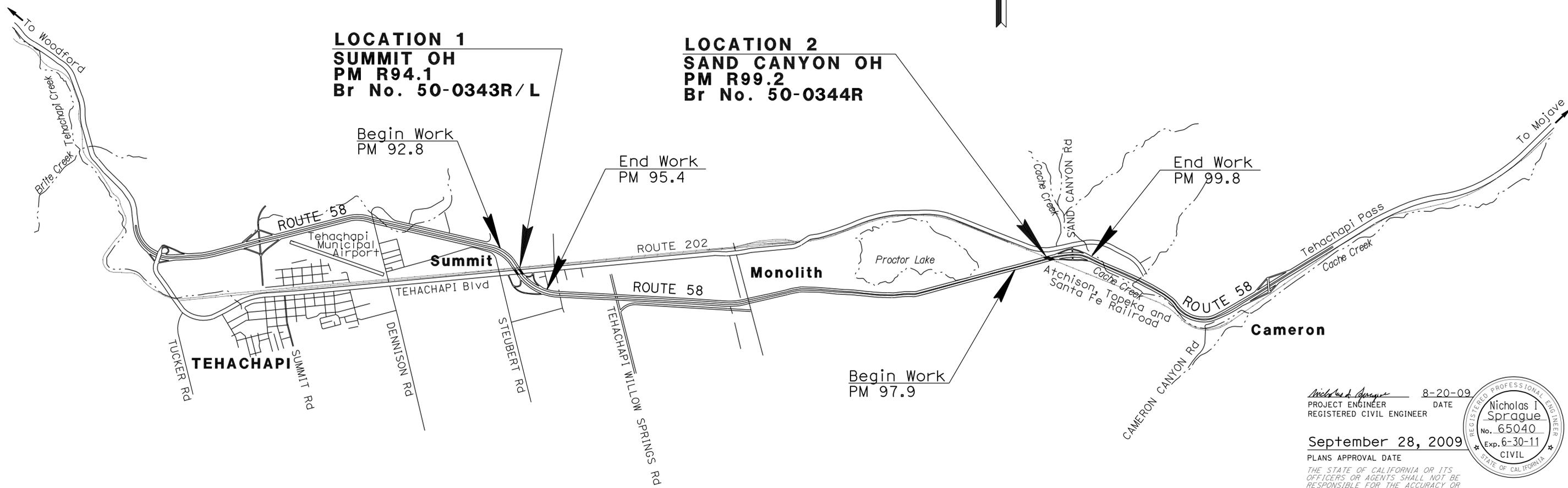
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	1	15





LOCATION MAP



PROJECT MANAGER
JOHN FOX
 DESIGN ENGINEER
JOHN FOX

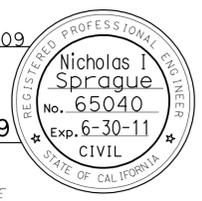
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Nicholas I Sprague 8-20-09
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

September 28, 2009
 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.



CONTRACT No. **09-341804**

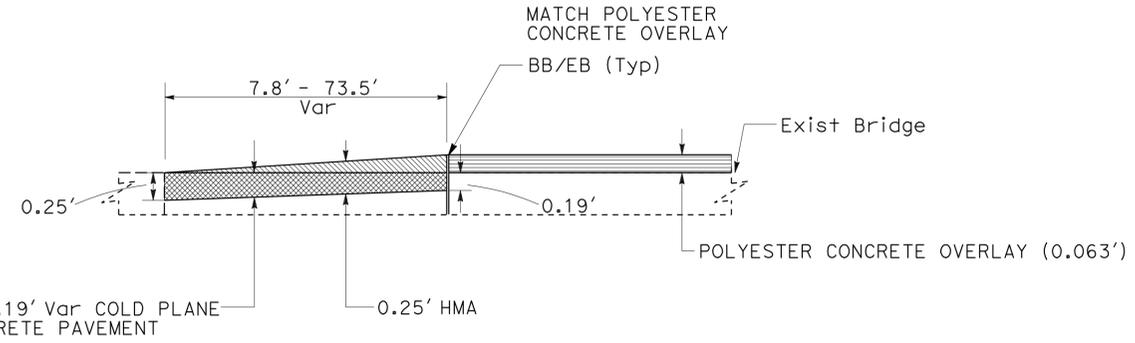
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	2	15

<i>Nicholas I. Sprague</i>	8-20-09
REGISTERED CIVIL ENGINEER	DATE
9-28-09	
PLANS APPROVAL DATE	

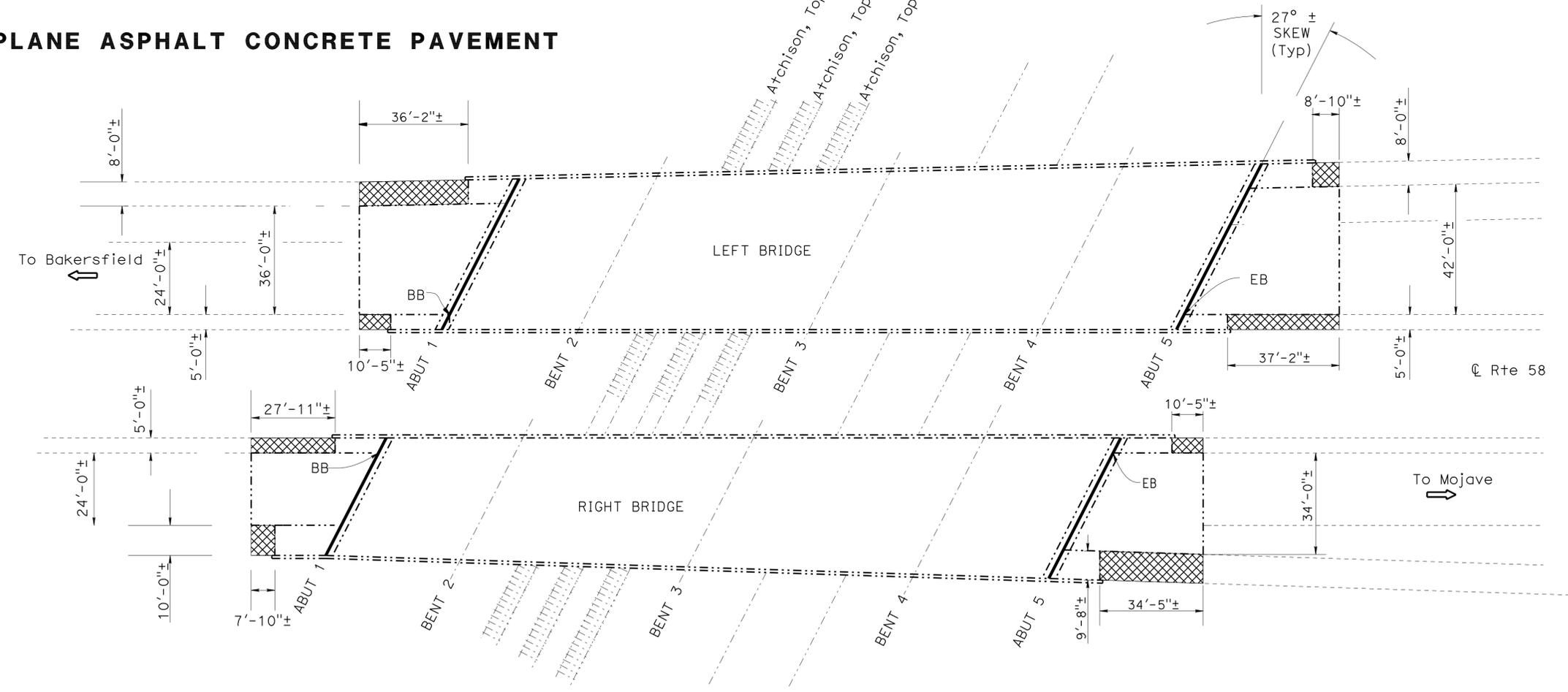
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

-  - LIMITS OF POLYESTER CONCRETE OVERLAY
-  - LIMITS OF COLD PLANE HMA CONCRETE PAVEMENT AND MINOR HMA
-  - LIMITS OF MINOR HMA



COLD PLANE ASPHALT CONCRETE PAVEMENT



SUMMIT OVERHEAD

Br No. 50-0343R/L, ROUTE 58, R094.16

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
NO SCALE
C-1

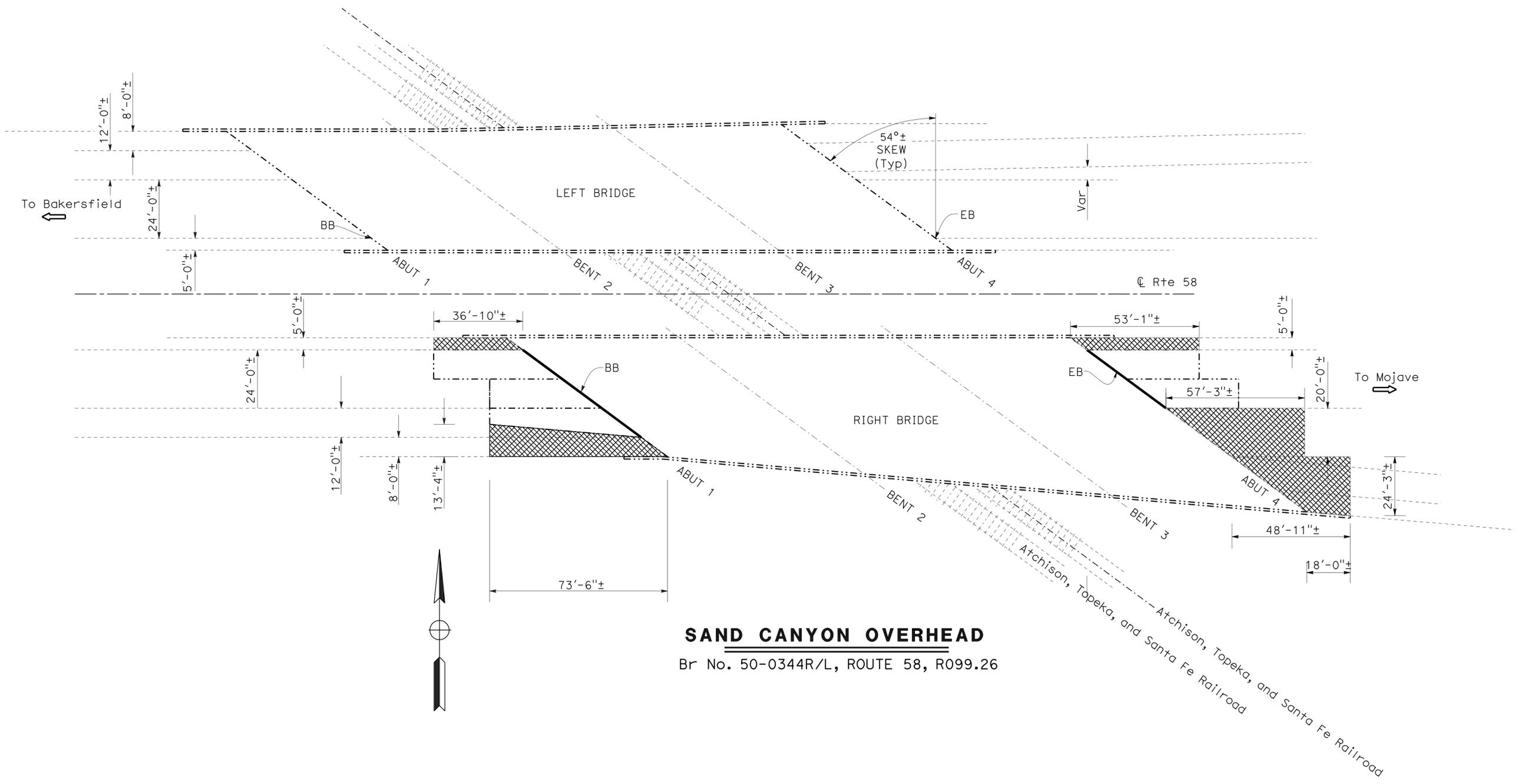
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE ENGINEERING	JOHN FOX	NICK SPRAGUE	
	CHECKED BY	MONTASHEEMA AFROZE	
	DESIGNED BY		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	3	15

<i>Nicholas I. Sprague</i>	8-20-09
REGISTERED CIVIL ENGINEER	DATE
9-28-09	
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.

LEGEND:
 - LIMITS OF COLD PLANE ASPHALT CONCRETE PAVEMENT AND MINOR HMA



SAND CANYON OVERHEAD
 Br No. 50-0344R/L, ROUTE 58, R099.26

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
 NO SCALE
C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans MAINTENANCE ENGINEERING	JOHN FOX	NICK SPRAGUE	MONTASHEEMA AFROZE
		CHECKED BY	DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	4	15

REGISTERED CIVIL ENGINEER
 Nicholas I. Sprague
 No. 65040
 Exp. 6-30-11
 CIVIL

8-20-09
 DATE
 REGISTERED CIVIL ENGINEER

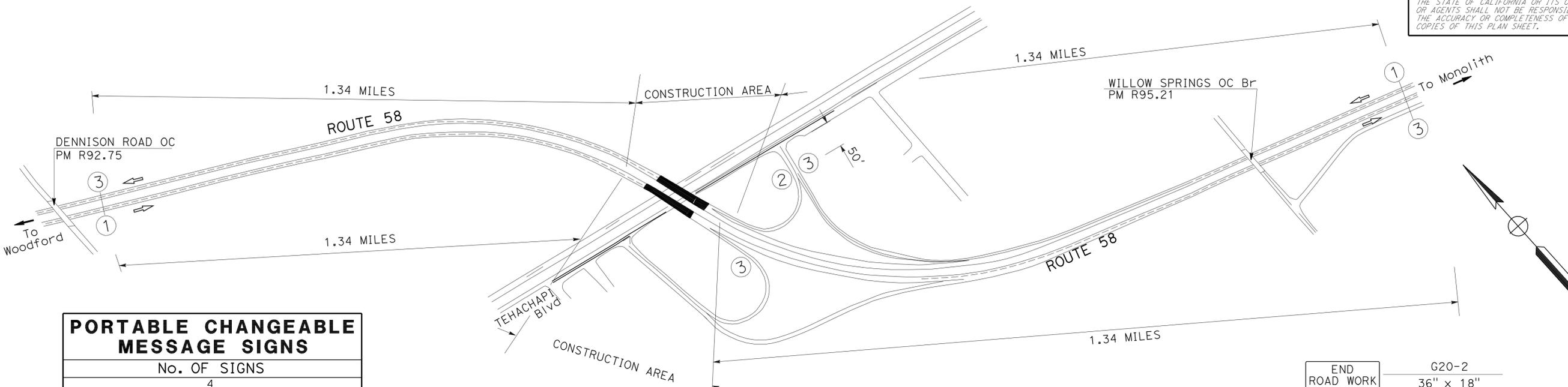
9-28-09
 PLANS APPROVAL DATE

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:

1. FOR SIGN INSTALLATION DETAILS AND DIMENSIONS NOT SHOWN SEE S+D PLANS.
2. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
3. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR **JOHN FOX**
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISED
 MA
 07-15-09
 MONTASHEEMA AFROZE
 NICK SPRAGUE

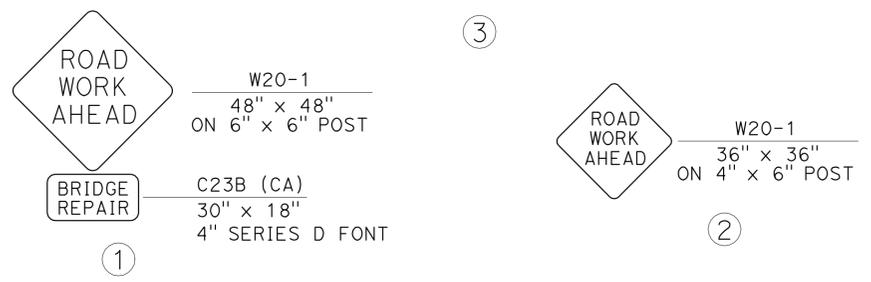


PORTABLE CHANGEABLE MESSAGE SIGNS	
No. OF SIGNS	4

PORTABLE CHANGEABLE MESSAGE SIGNS		
MESSAGE FOR DIVIDED HIGHWAY		
USE CAUTION	LANE CLOSED AHEAD	BRIDGE REPAIR

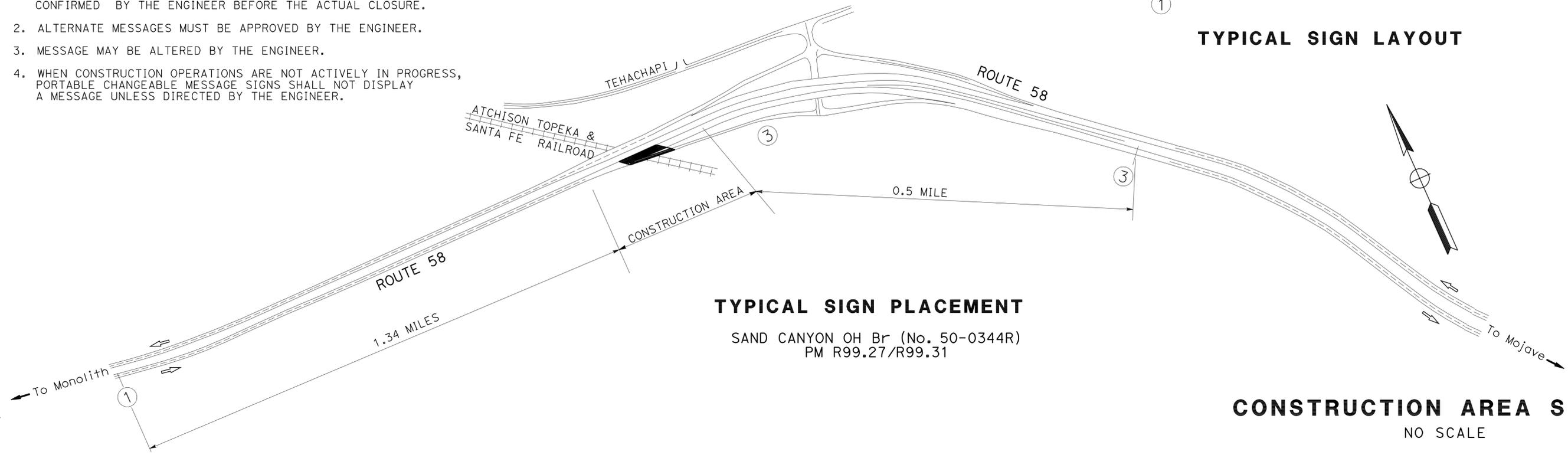
TYPICAL SIGN PLACEMENT

SUMMIT OH Br (No. 50-0343R)
 PM R94.16/R94.21
 SUMMIT OH Br (No. 50-0343L)
 PM R94.17/R94.22



TYPICAL SIGN LAYOUT

1. PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.
2. ALTERNATE MESSAGES MUST BE APPROVED BY THE ENGINEER.
3. MESSAGE MAY BE ALTERED BY THE ENGINEER.
4. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, PORTABLE CHANGEABLE MESSAGE SIGNS SHALL NOT DISPLAY A MESSAGE UNLESS DIRECTED BY THE ENGINEER.



TYPICAL SIGN PLACEMENT

SAND CANYON OH Br (No. 50-0344R)
 PM R99.27/R99.31

CONSTRUCTION AREA SIGNS CS-1

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	5	15

Nick Sprague 8-20-09
 REGISTERED CIVIL ENGINEER DATE
 9-28-09
 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
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR **JOHN FOX**
 CALCULATED-DESIGNED BY
 CHECKED BY
 NICK SPRAGUE
 MONTASHEEMA AFROZE
 REVISED BY
 DATE REVISED

QUANTITY SUMMARY						
LOCATION	COUNTY	ROUTE	PM	COLD PLANE AC PAVEMENT	MINOR HMA	TACK COAT (N)
				SQYD	TON	TON
SUMMIT OH R+	Ker	58	R94.16	66.9	10.9	0.03
SUMMIT OH L+	Ker	58	R94.17	66.5	10.9	0.03
SAND CANYON OH R+	Ker	58	R99.27	308.4	50.3	0.13
TOTAL				441.8	72.1	

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

PAINT TRAFFIC STRIPE (2-COAT)						
LOCATION	BRIDGE No.	PM	DETAIL NUMBER			
			11 LF	24 LF	27B LF	38A LF
1	50-0343 R+	R94.16	330	310	315	20
	50-0343 L+	R94.17	574	320	315	40
2	50-0344 R+	R99.27	443	443	358	300
SUBTOTAL			1347	1073	988	360
TOTAL			3768			

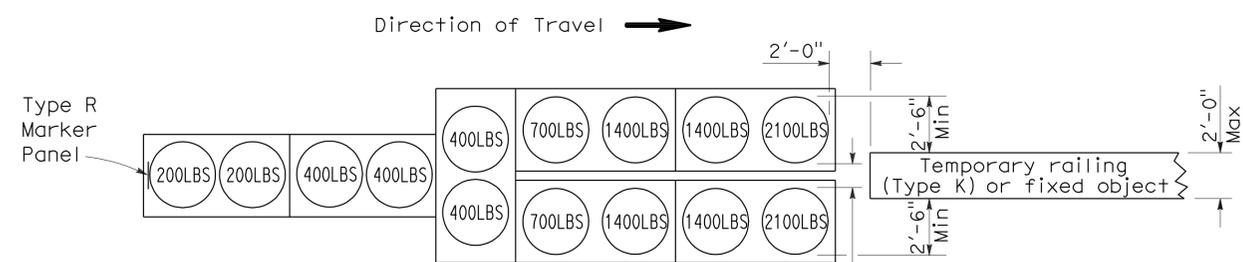
REMOVE PAINTED TRAFFIC STRIPE	
LOCATION	LF
Br No. 50-0344R	719

TEMPORARY DRAINAGE INLET PROTECTION		
LOCATION	R+	NOTE
PM R99.27	EA 1	DECK DRAIN

SUMMARY OF QUANTITIES Q-1

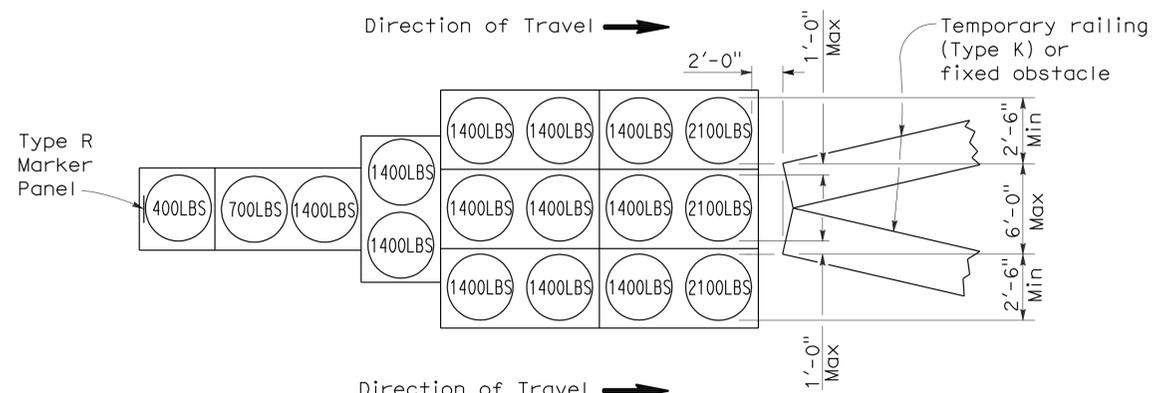
To accompany plans dated 9-28-09

2006 REVISED STANDARD PLAN RSP T1A



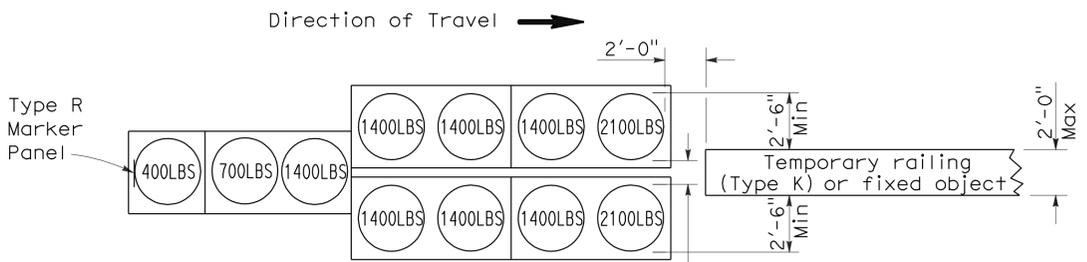
ARRAY 'TU14'

Approach speed 45 mph or more



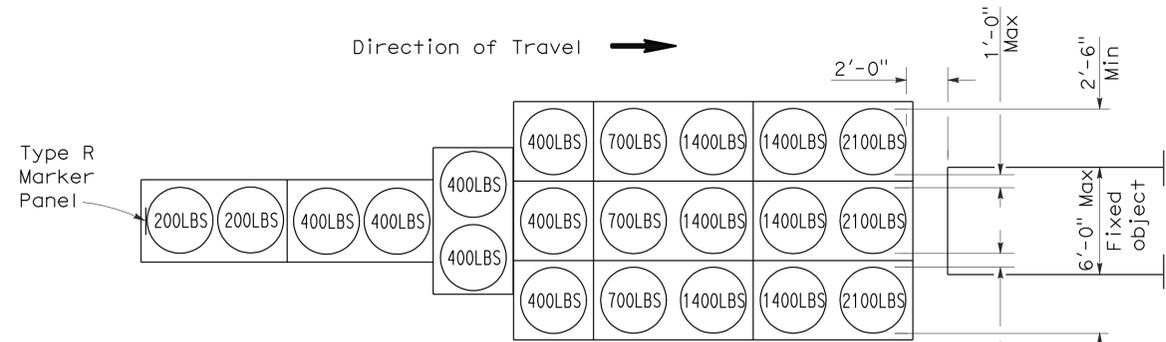
ARRAY 'TU17'

Approach speed less than 45 mph



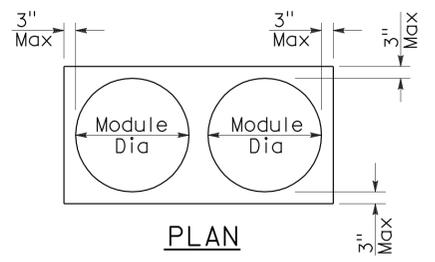
ARRAY 'TU11'

Approach speed less than 45 mph

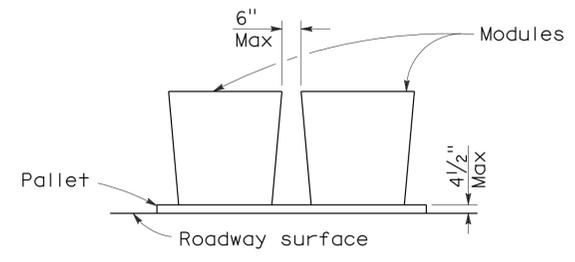


ARRAY 'TU21'

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

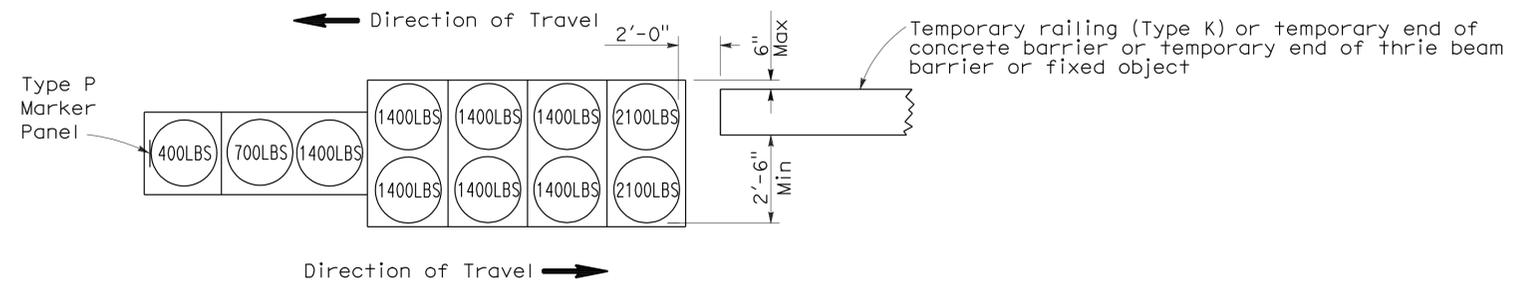
**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

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.

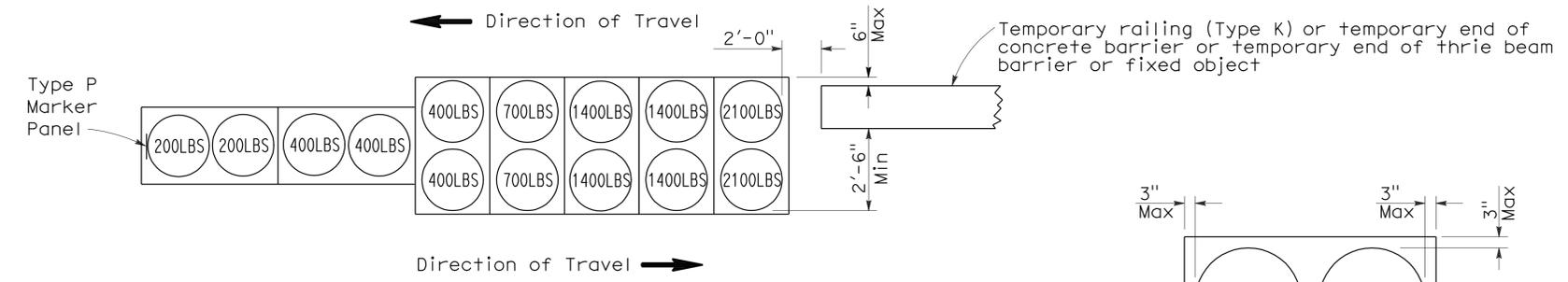
REVISED STANDARD PLAN RSP T1A

To accompany plans dated 9-28-09



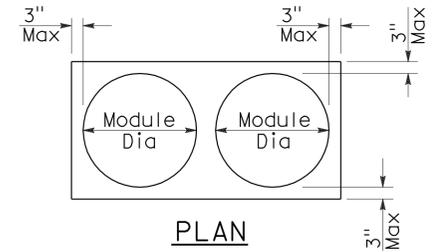
ARRAY 'TB11'

Approach speed less than 45 mph

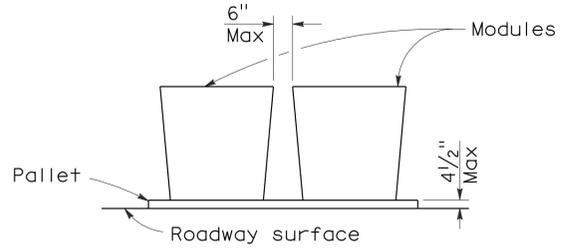


ARRAY 'TB14'

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
09	Ker	58	R94.1,R99.2	8	15

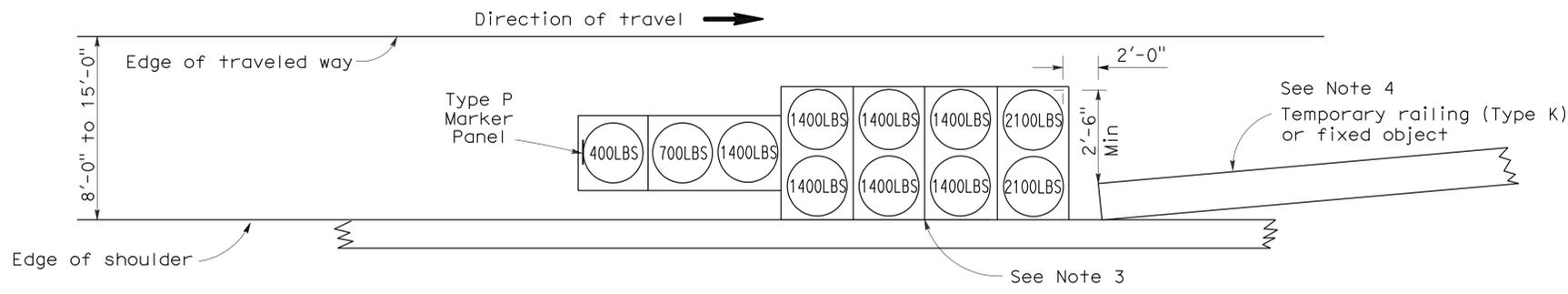
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

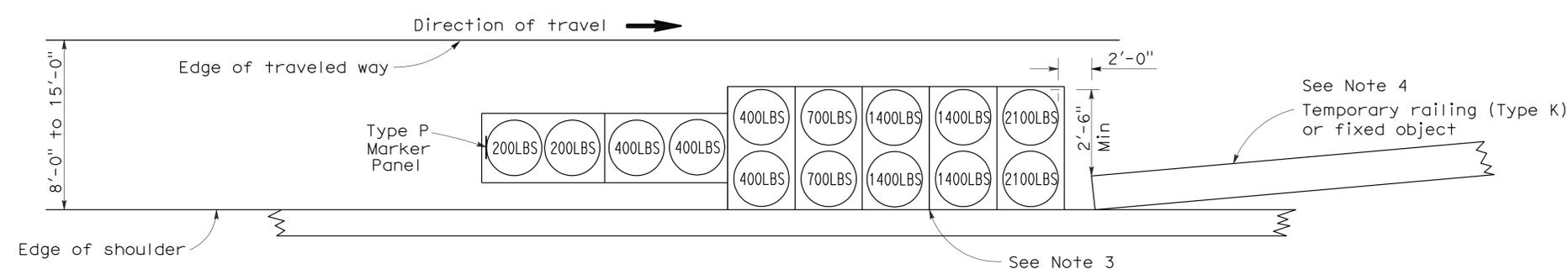
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 9-28-09



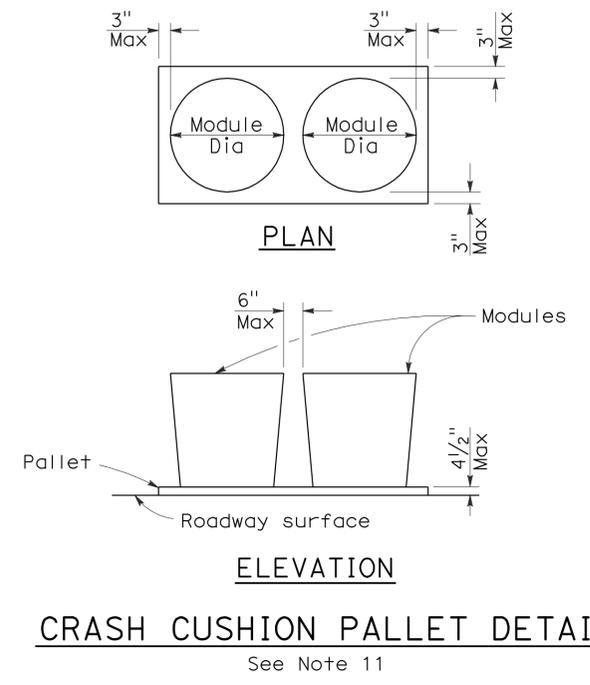
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

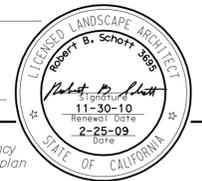
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

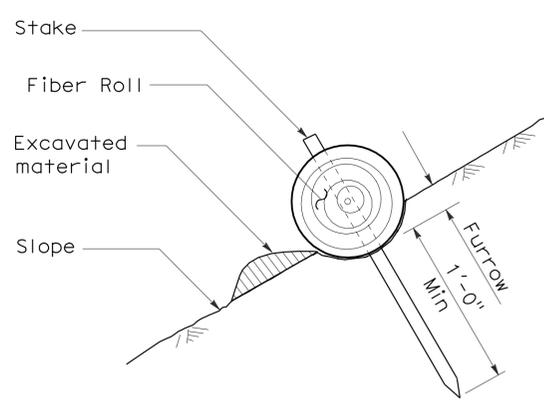
2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	9	15

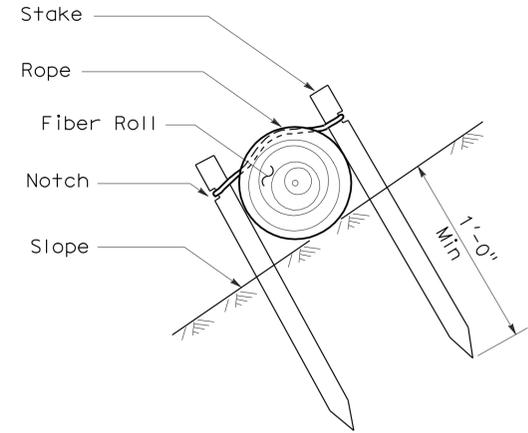
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



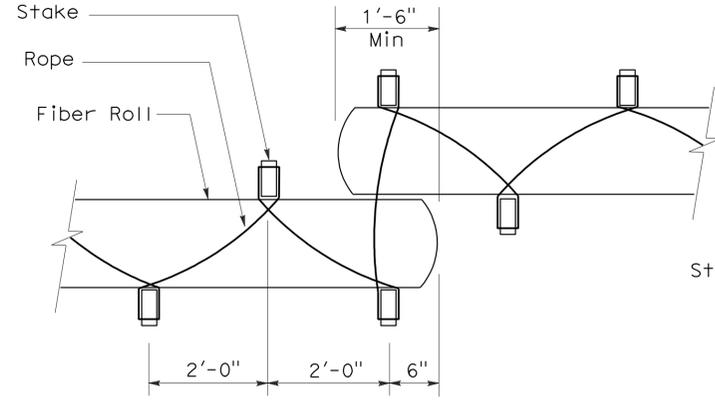
To accompany plans dated 9-28-09



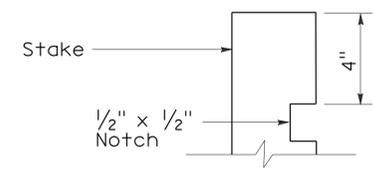
SECTION
TEMPORARY FIBER ROLL (TYPE 1)



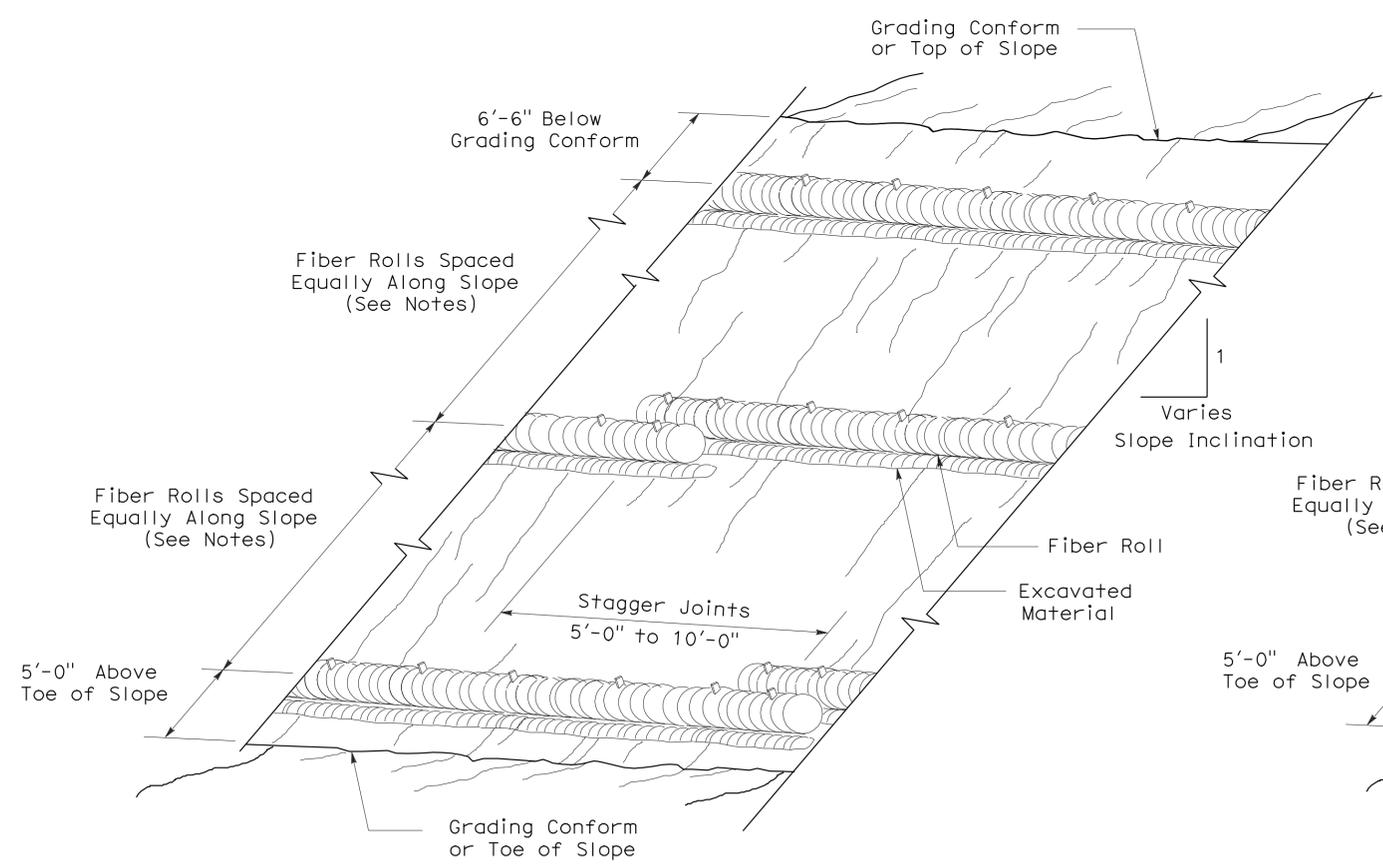
SECTION
TEMPORARY FIBER ROLL (TYPE 2)



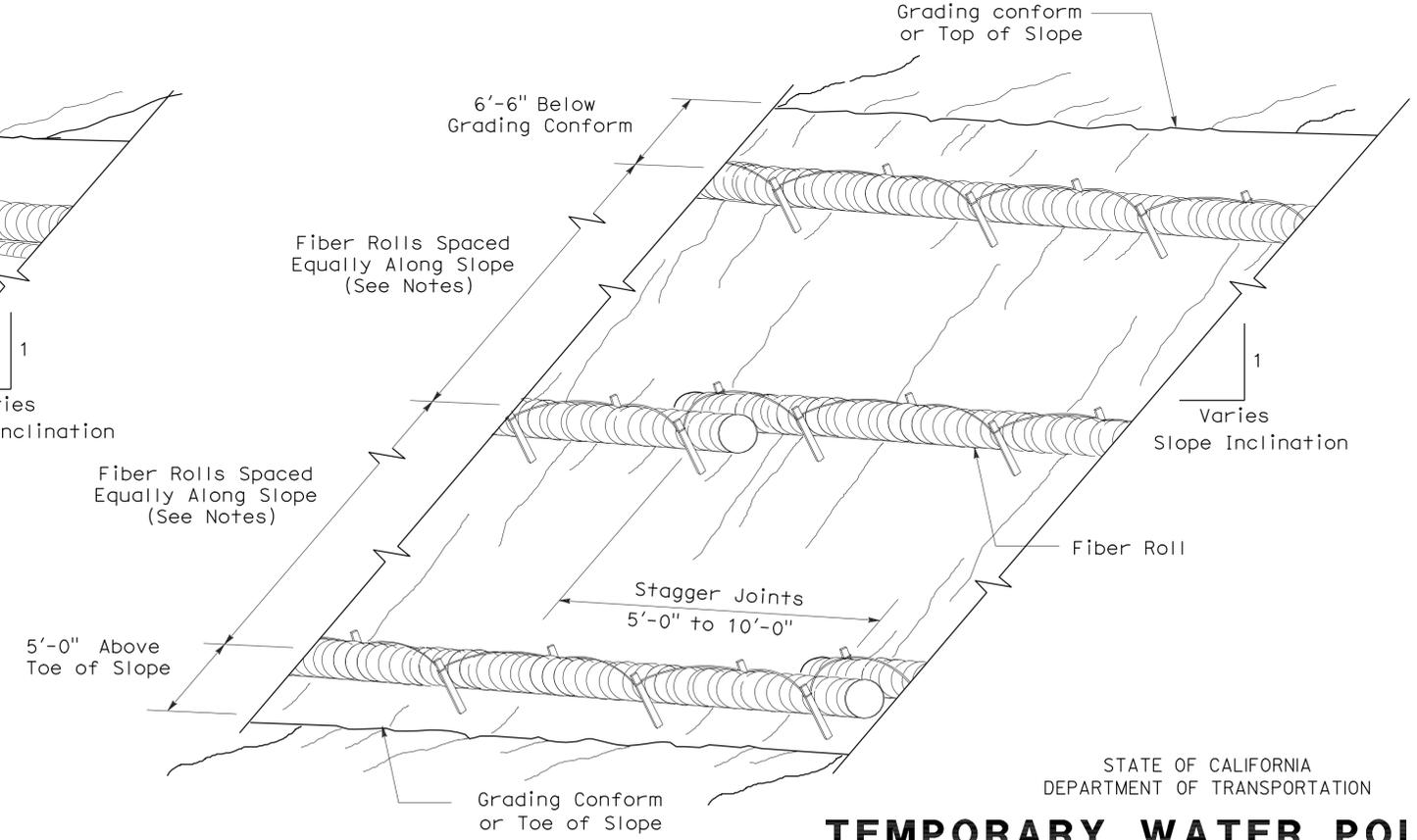
PLAN
ELEVATION
STAKE NOTCH DETAIL



- 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

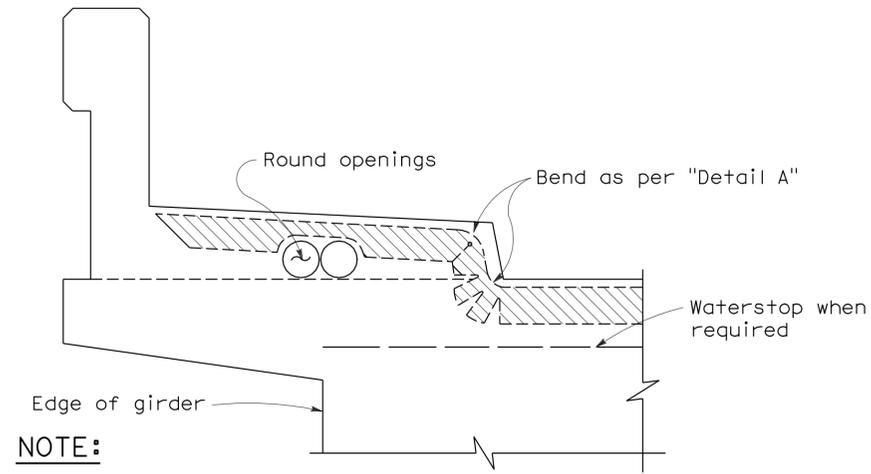
RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

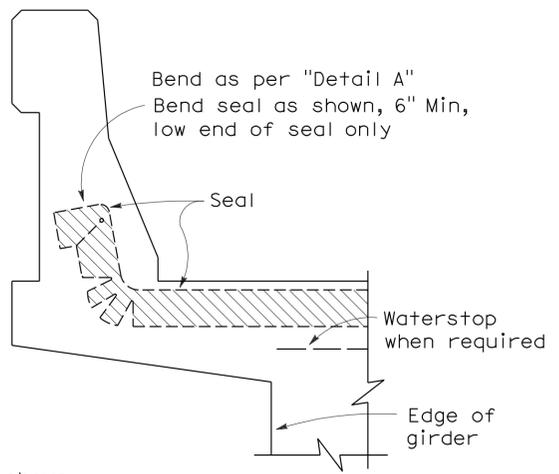
To accompany plans dated 9-28-09

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

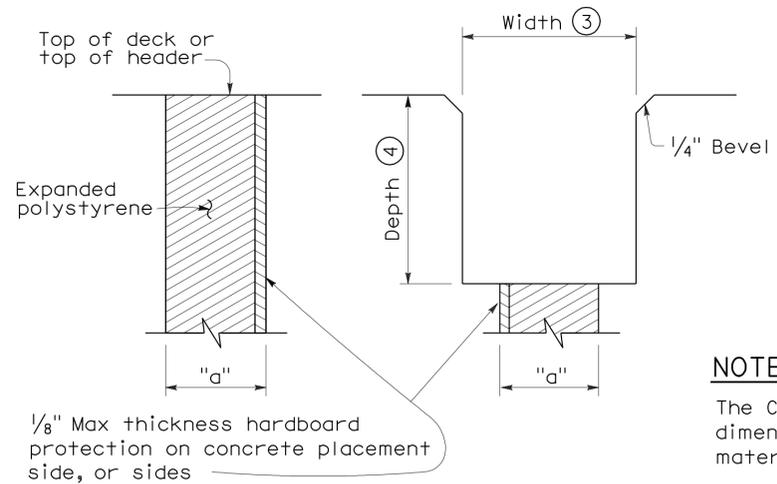


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

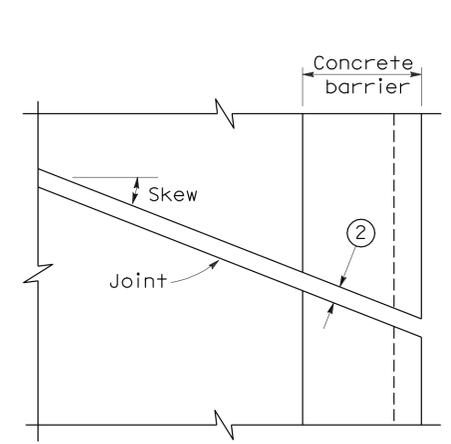


CONCRETE BARRIER



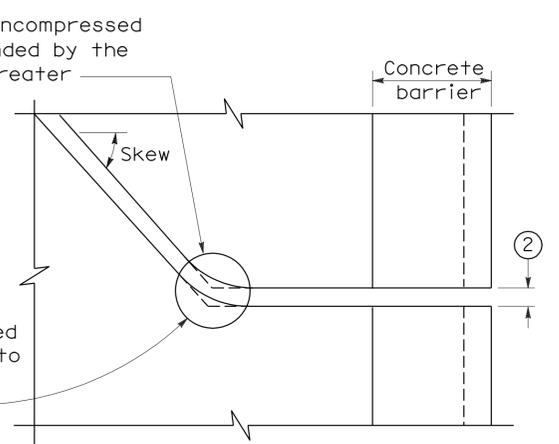
FORMING DETAIL SAWCUT DETAIL

JOINT SEALS DETAILS



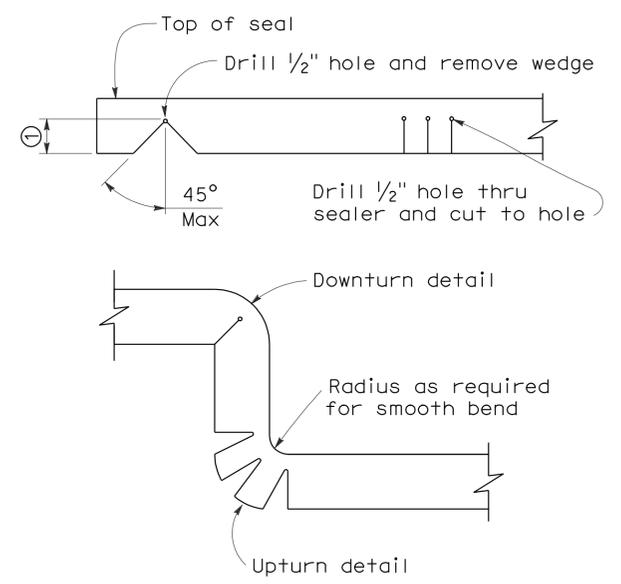
PLAN OF JOINT (SKEW ≤ 20°)

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.



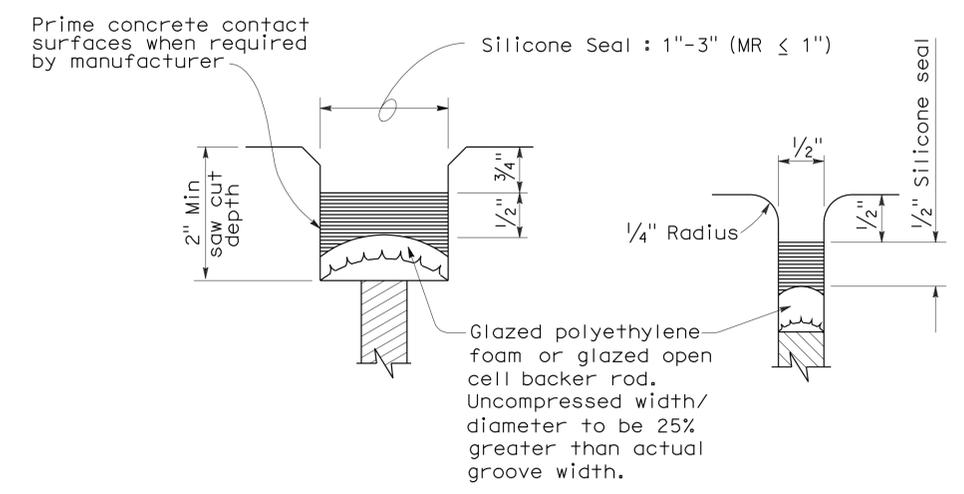
DETAIL A

- 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

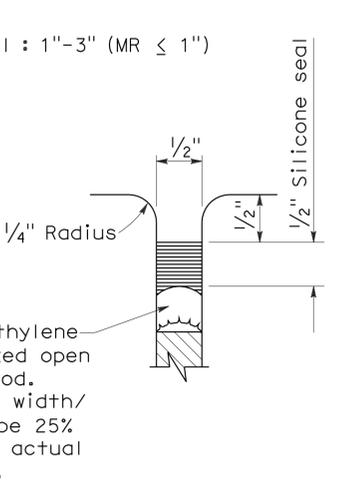
Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except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



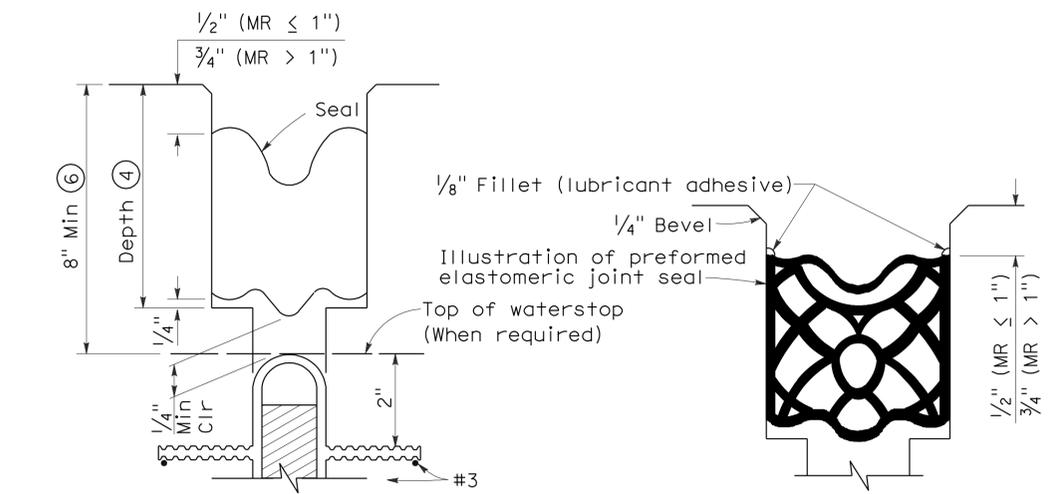
TYPE A SEAL

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.

NOTES (APPLY TO ALL SHEETS)

----- Indicates existing.

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

STANDARD PLANS DATED MAY 2006

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

NOTES (APPLY TO THIS SHEET ONLY):

-  Indicates limits of remove existing 3"± thick AC and Membrane Seal.
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Overlay Detail".
-  Indicates limits of existing joint seal removal and placement of new joint seal.

- ① See "ROAD PLANS" for modification of existing AC or PCC surface to conform to new deck grade.
 - ② Indicates existing concrete expansion dam to be removed
- For SECTION A-A see "OVERLAY DETAILS" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	11	15

7-15-09
REGISTERED CIVIL ENGINEER DATE

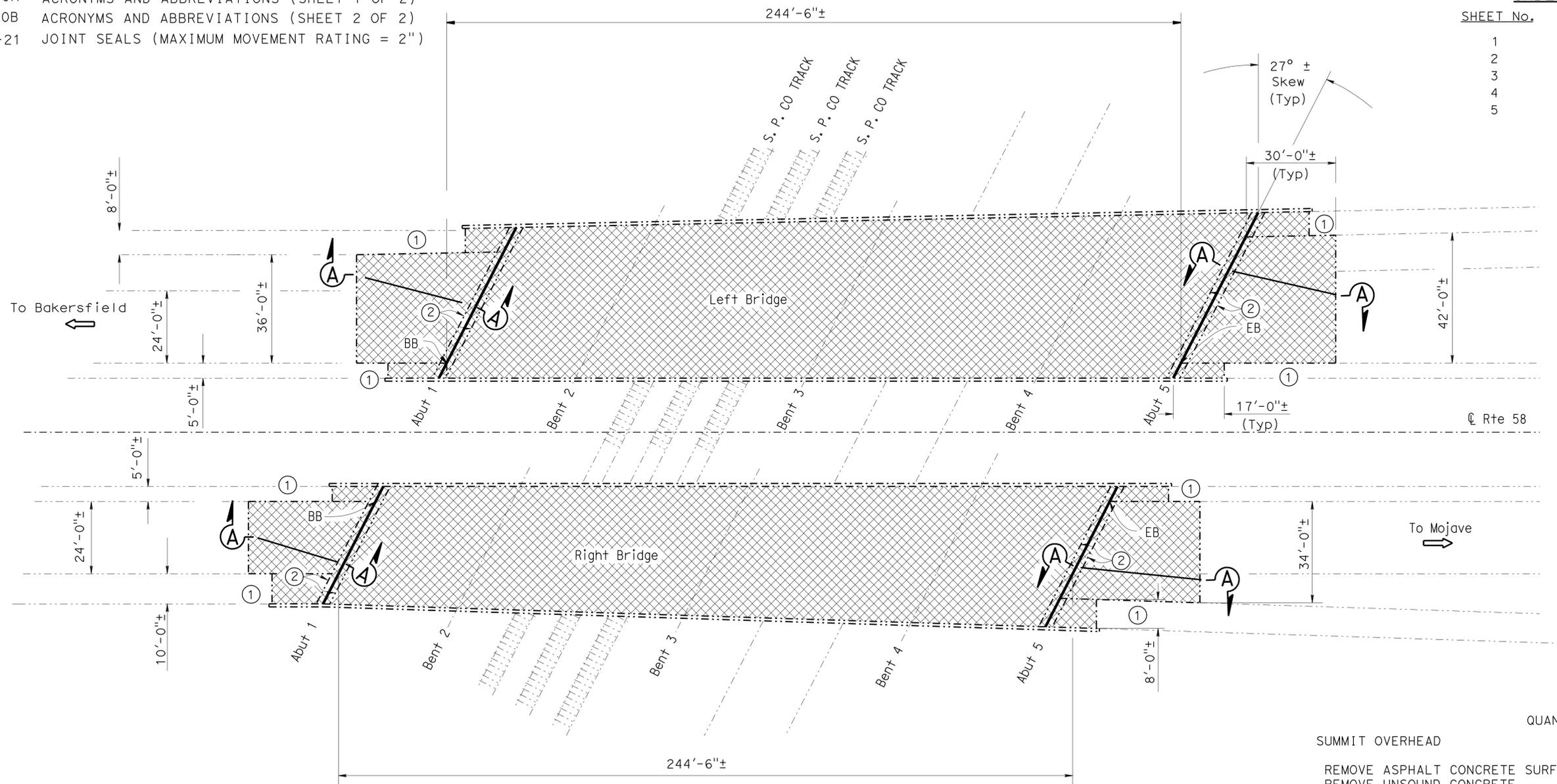
9-28-09
PLANS APPROVAL DATE

MARTIN B. FURLONG
No. C70764
Exp. 06-30-11
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.

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	JOINT SEAL DETAILS
4	OVERLAY DETAILS
5	STRUCTURE APPROACH TYPE R(30D)



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

SUMMIT OVERHEAD
Br No. 50-0343L/R, ROUTE 58, R094.16
1" = 20'

QUANTITIES

DESCRIPTION	QUANTITY	UNIT
REMOVE ASPHALT CONCRETE SURFACING	29,592	SQFT
REMOVE UNSOUND CONCRETE	74	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	29,592	SQFT
CLEAN EXPANSION JOINT	219	LF
RAPID SETTING CONCRETE (PATCH)	74	CF
FURNISH POLYESTER CONCRETE OVERLAY	3,346	CF
PLACE POLYESTER CONCRETE OVERLAY	29,592	SQFT
JOINT SEAL (MR 1")	99	LF
JOINT SEAL (MR 1 1/2")	63	LF
JOINT SEAL (MR 2")	57	LF

BRIDGE No. 50-0343L/R

 DESIGN ENGINEER 7-15-09	DESIGN	BY M. Furlong	CHECKED M. Hashimoto	LAYOUT	BY David Kish	CHECKED M. Hashimoto	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 58 BRIDGES GENERAL PLAN No. 1
	DETAILS	BY David Kish	CHECKED M. Hashimoto	SPECIFICATIONS	BY Aiman Abdel-Malak	CHECKED M. Furlong			POST MILE	Varies	
	QUANTITIES	BY M. Furlong	CHECKED M. Hashimoto	PLANS AND SPECIFICATIONS COMPARED	BY M. Furlong	CHECKED M. Furlong			VARIES	Varies	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)

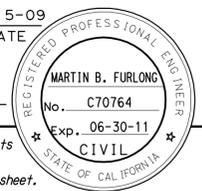
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

CU 09603
EA 341801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

11-12-08	11-18-08	1-23-09	1-29-09	4-23-09
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SHEET 1 OF 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	12	15
 REGISTERED CIVIL ENGINEER DATE 7-15-09					
PLANS APPROVAL DATE 9-28-09 <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>					

NOTES (APPLY TO THIS SHEET ONLY):

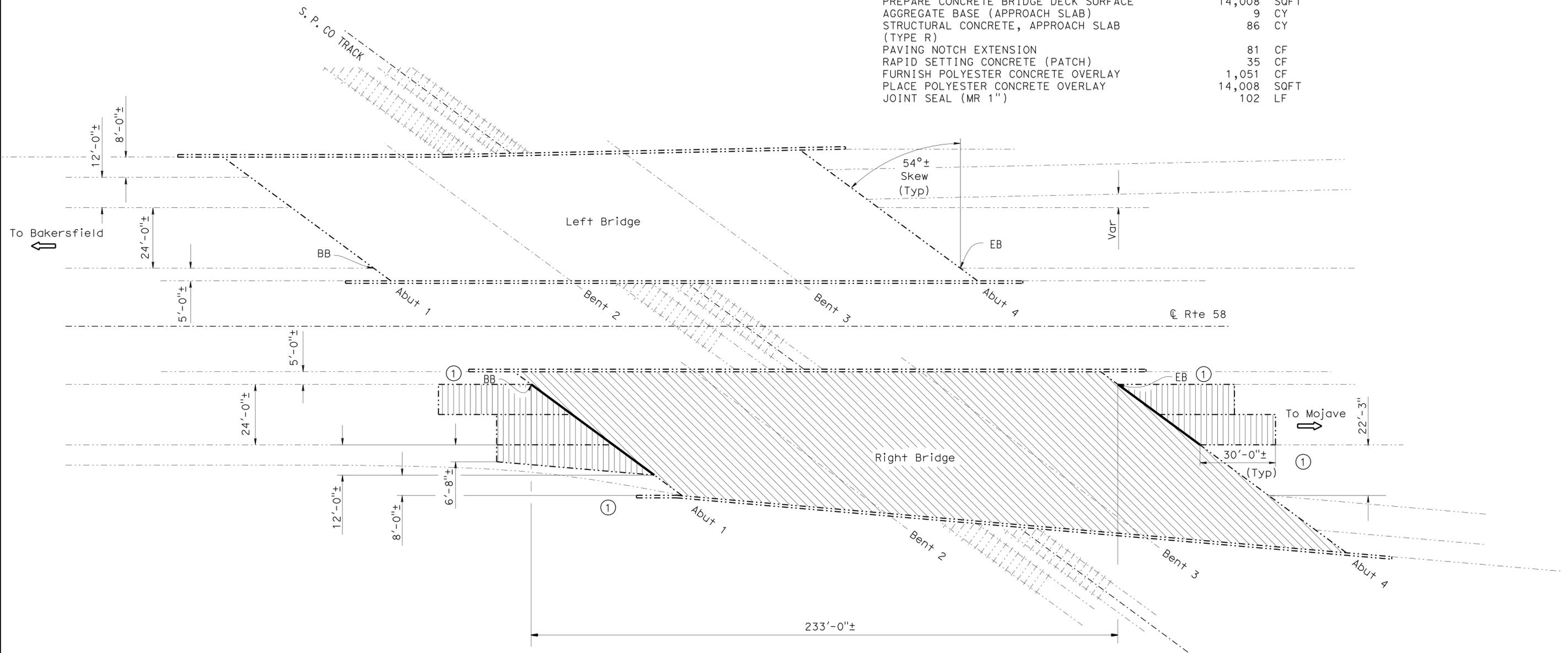
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Overlay Detail".
-  Indicates limits of remove existing approach and place new STRUCTURE APPROACH TYPE R (30D). For details see "STRUCTURE APPROACH TYPE R (30D)" sheet.

 Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, repair joint spalls.

① See "ROAD PLANS" for modification of existing AC or PCC surface to conform to new deck grade.

QUANTITIES

SAND CANYON OVERHEAD	BRIDGE No. 50-0344R
REMOVE UNSOUND CONCRETE	35 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	14,008 SQFT
AGGREGATE BASE (APPROACH SLAB)	9 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	86 CY
PAVING NOTCH EXTENSION	81 CF
RAPID SETTING CONCRETE (PATCH)	35 CF
FURNISH POLYESTER CONCRETE OVERLAY	1,051 CF
PLACE POLYESTER CONCRETE OVERLAY	14,008 SQFT
JOINT SEAL (MR 1")	102 LF



SAND CANYON OVERHEAD

Br No. 50-0344L/R, ROUTE 58, R099.26
1" = 20'



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


DESIGN ENGINEER 7-15-09

DESIGN	BY M. Furlong	CHECKED M. Hashimoto
DETAILS	BY David Kish	CHECKED M. Hashimoto
QUANTITIES	BY M. Furlong	CHECKED M. Hashimoto

LAYOUT	BY David Kish	CHECKED M. Hashimoto
SPECIFICATIONS	BY Aiman Abdel-Malak	CHECKED M. Furlong

PLANS AND SPECIFICATIONS COMPARED	BY M. Furlong	CHECKED M. Hashimoto
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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 58 BRIDGES
GENERAL PLAN No. 2

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 09603
EA 341801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	11-12-08	11-18-08	1-23-09	1-29-09	5-27-09				
SHEET	2								
OF	5								

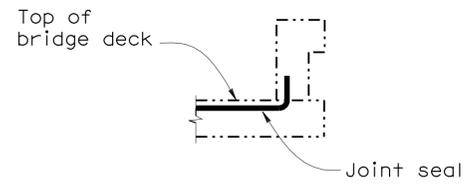
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	13	15

7-15-09
 REGISTERED CIVIL ENGINEER DATE
 9-28-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 MARTIN B. FURLONG
 No. C70764
 Exp. 06-30-11
 CIVIL
 STATE OF CALIFORNIA

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
50-0343L	Abut 1	PN	2	57	NO	12
	Abut 5	PN	1 1/2	63	NO	12
50-0343R	Abut 1	PN	1	46	NO	12
	Abut 5	PN	1	53	NO	12
50-0344R	Abut 1	PN	1	61	NO	12
	Abut 4	PN	1	41	NO	12



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

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

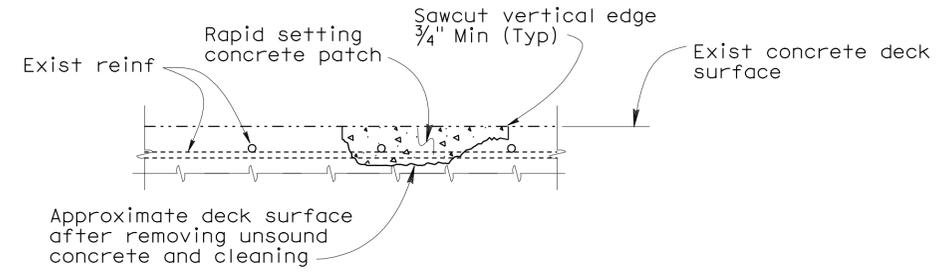
LEGEND:
 PN - Paving Notch

NOTE:
 All joint seals are to be compression type seals.

DECK REPAIR TABLE

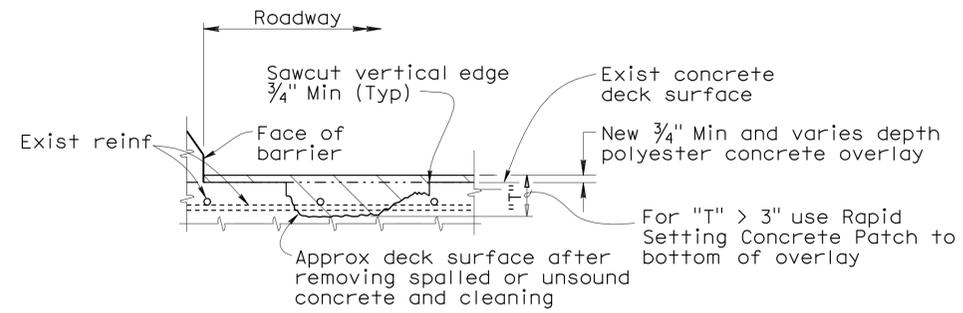
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
SUMMIT OVERHEAD	50-0343L	1	3
SUMMIT OVERHEAD	50-0343R	1	3
SAND CANYON OVERHEAD	50-0344R	1	3



DECK REPAIR DETAIL

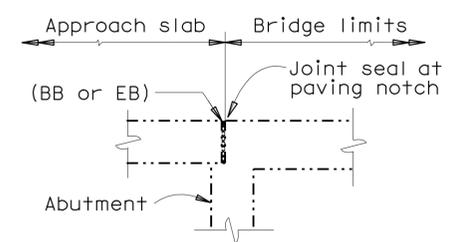
Note: Reinforcement may be encountered during deck concrete removal.



DECK OVERLAY DETAIL

Note: Reinforcement may be encountered during deck concrete removal.

- 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 calculated 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 psi.
 - 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.
 - For details not shown, see .



PAVING NOTCH

JOINT SEAL LOCATION

NO SCALE

NOTE:
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STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY M. Furlong	CHECKED M. Hashimoto	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 58 BRIDGES JOINT SEAL DETAILS
	DETAILS	BY David Kish	CHECKED M. Hashimoto			VARIES	
	QUANTITIES	BY M. Furlong	CHECKED M. Hashimoto			VARIOUS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 09603 EA 341801	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 11-13-08, 12-04-08, 1-23-09, 1-29-09, 4-23-09, 5-27-09	
							SHEET 3 OF 5

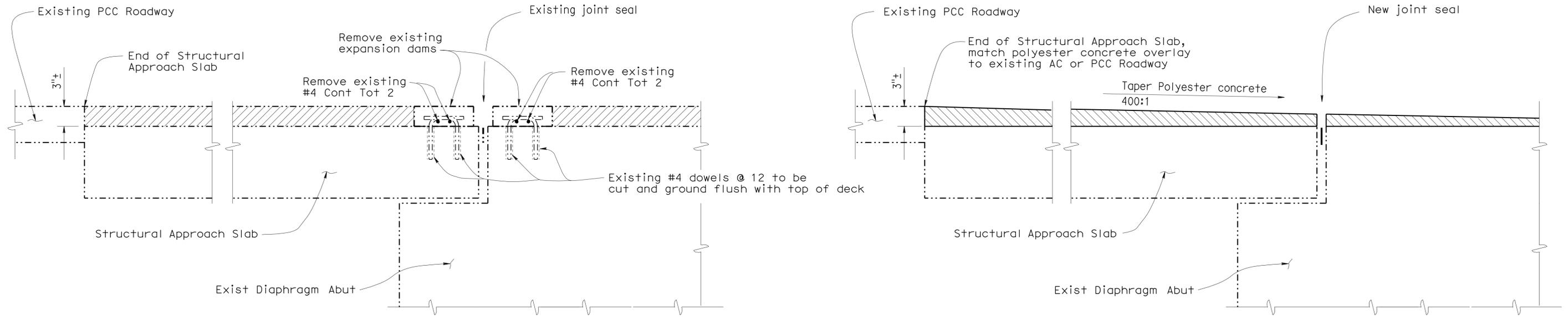
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Ker	58	R94.1, R99.2	14	15

7-15-09
 REGISTERED CIVIL ENGINEER DATE
 9-28-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 MARTIN B. FURLONG
 No. C70764
 Exp. 06-30-11
 CIVIL
 STATE OF CALIFORNIA

NOTES (APPLY TO THIS SHEET ONLY):

- Indicates limits of remove existing 3"± thick AC and Membrane Seal.
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Overlay Detail".



EXISTING

RECONSTRUCTION

SECTION A-A

Br No. 50-0343L/R
NO SCALE

NOTE:
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NO SCALE

DESIGN	BY M. Furlong	CHECKED M. Hashimoto
DETAILS	BY David Kish	CHECKED M. Hashimoto
QUANTITIES	BY M. Furlong	CHECKED M. Hashimoto

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

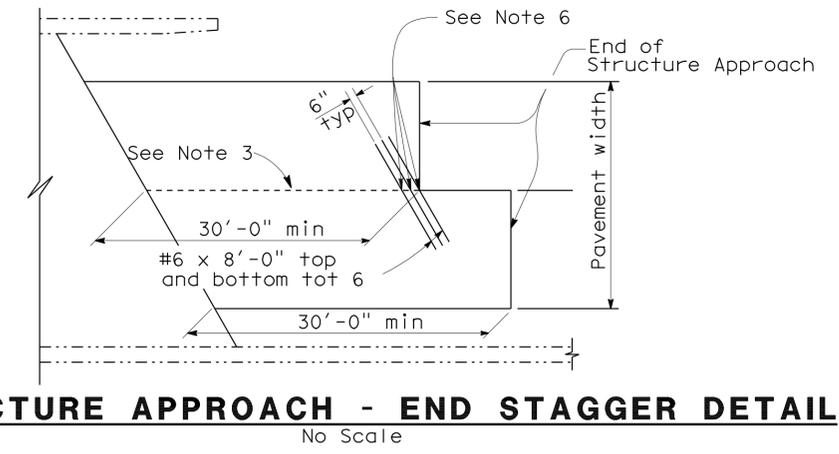
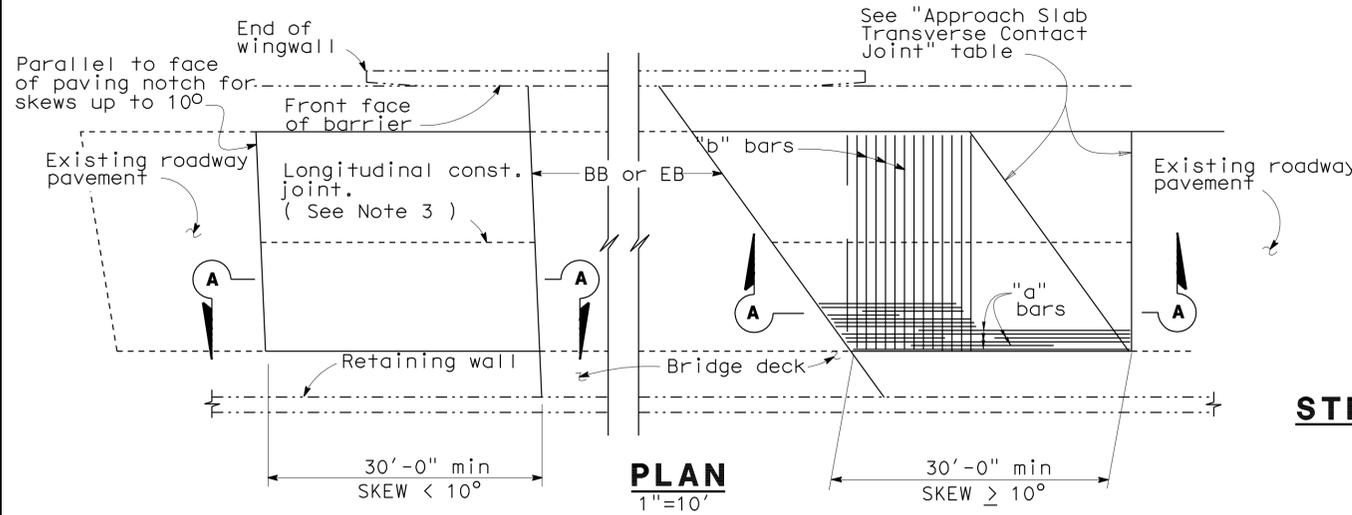
ROUTE 58 BRIDGES	
OVERLAY DETAILS	

USERNAME => fmkhes DATE PLOTTED => 29-SEP-2009 TIME PLOTTED => 08:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Ker	58	R94.1,R99.2	15	15

REGISTERED CIVIL ENGINEER DATE 7-15-09
 9-28-09
 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.

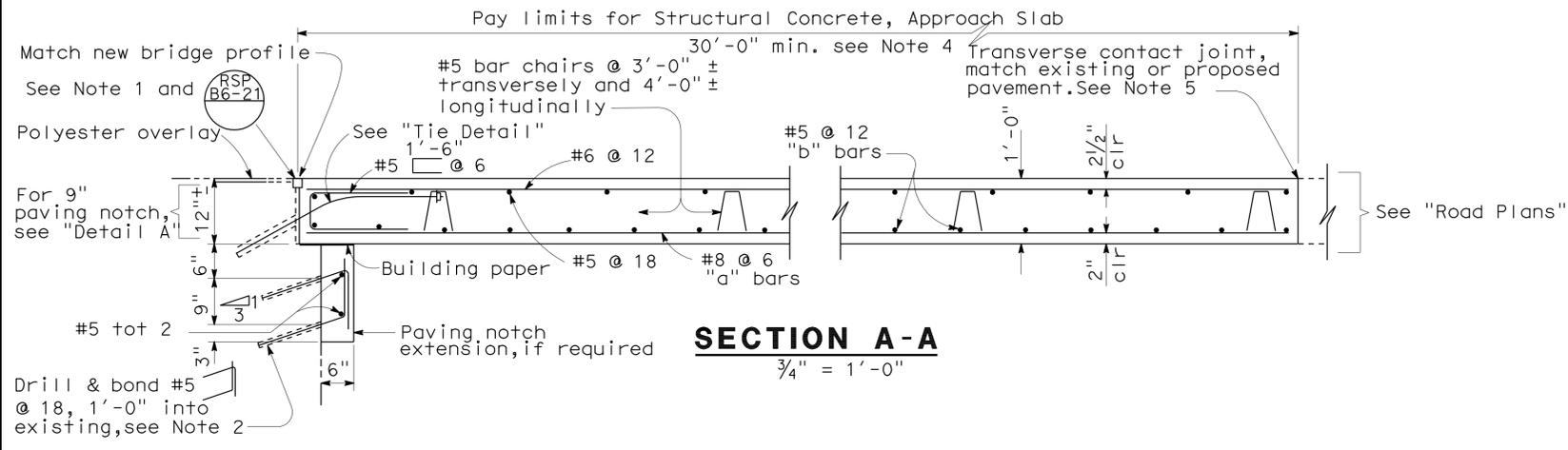
REGISTERED PROFESSIONAL ENGINEER
 MARTIN B. FURLONG
 No. C70764
 Exp. 06-30-11
 CIVIL
 STATE OF CALIFORNIA



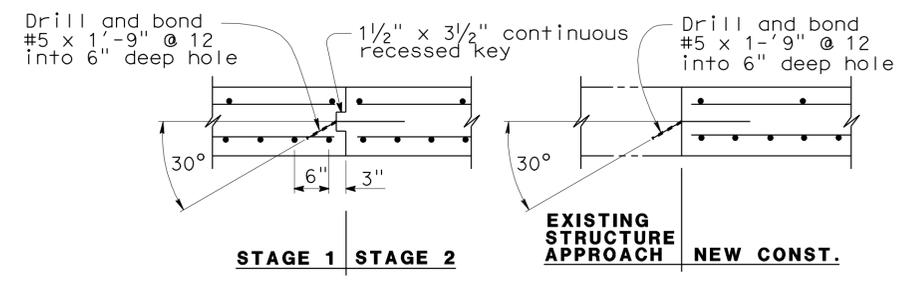
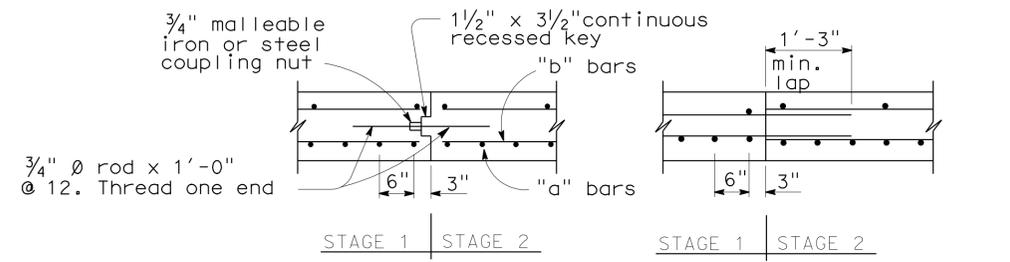
STRUCTURE APPROACH - END STAGGER DETAIL

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	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N	Stagger at each lane line

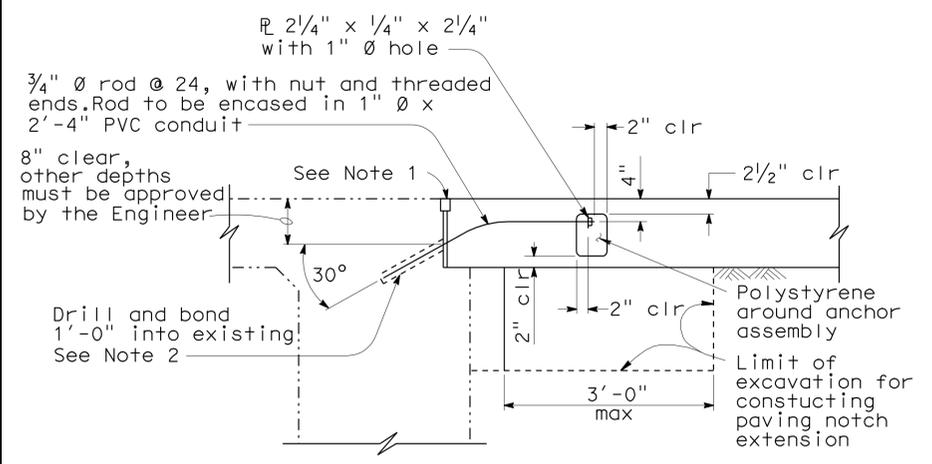


SECTION A-A

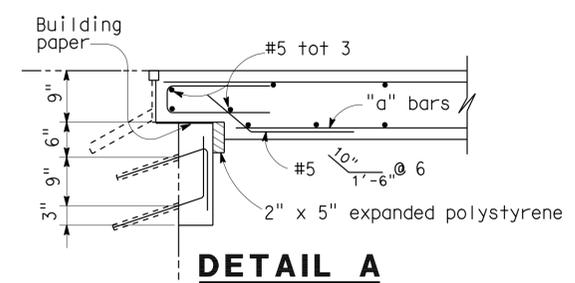


LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES

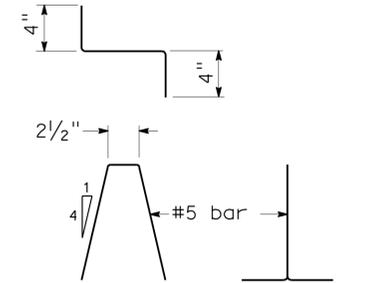
- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - Space to avoid existing prestress anchorages and main reinforcement.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on 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.



TIE DETAIL



DETAIL A



BAR CHAIR DETAIL

NOTE: For details not shown, see "Section A-A".

NOTE:
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DESIGN	BY M. Furlong	CHECKED M. Hashimoto	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 58 BRIDGES	
DETAILS	BY David Kish	CHECKED M. Hashimoto			VARIABLES		
QUANTITIES	BY M. Furlong	CHECKED M. Hashimoto			POST MILE		
					VARIOUS	STRUCTURE APPROACH TYPE R (30D)	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 341801	REVISION DATES	SHEET 5 OF 5