

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	CONSTRUCTION DETAILS
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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 SHASTA COUNTY AT VARIOUS LOCATIONS

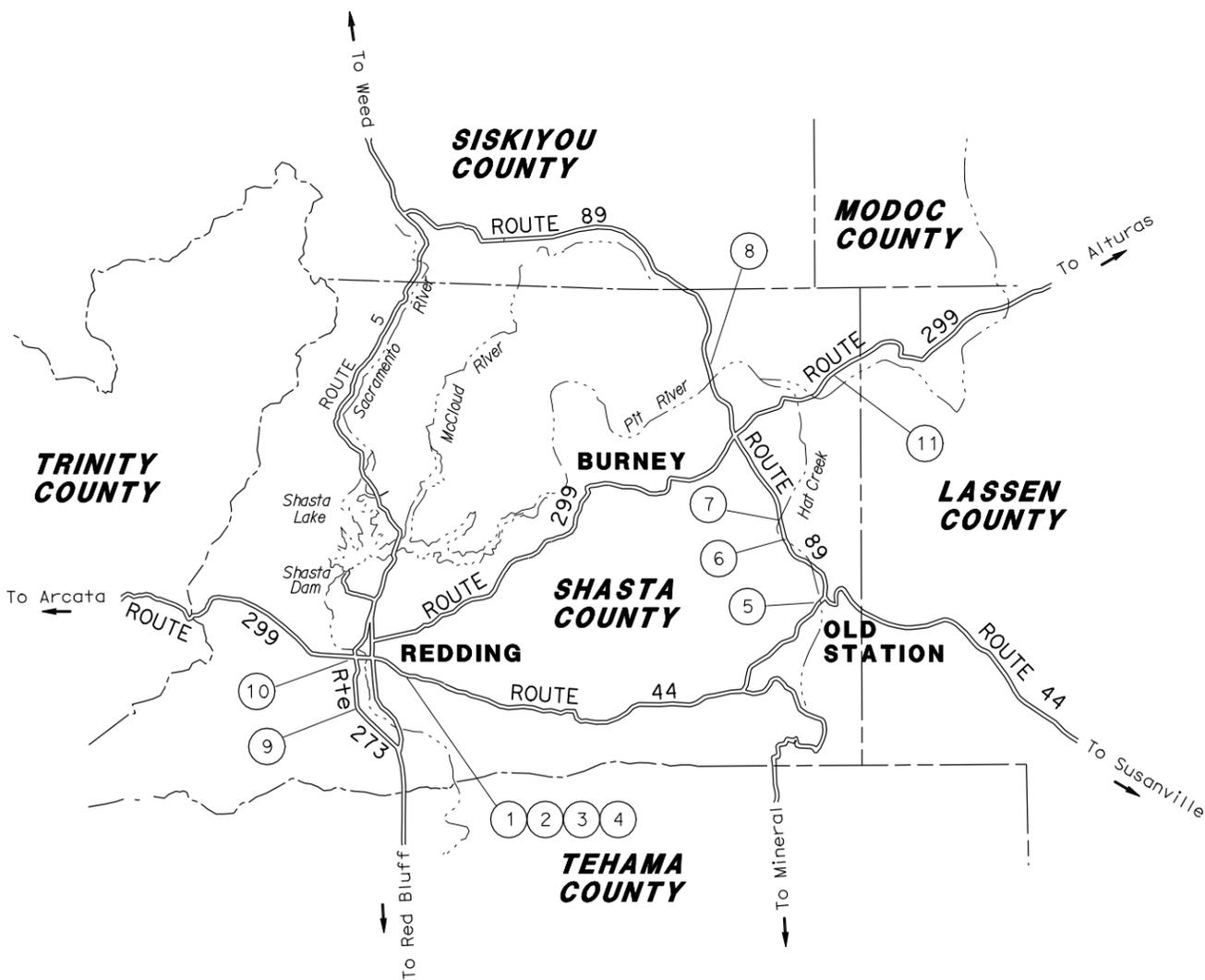
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,89 273,299	Var	1	18



Caltrans

LOCATION MAP

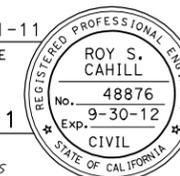


LOCATIONS OF CONSTRUCTION

	COUNTY	ROUTE	POST MILE	BRIDGE No.	WORK DESCRIPTION
1	Sha	44	R3.63	06-0182	AIRPORT ROAD OC
2	Sha	44	R4.55	06-0151	CLOUGH CREEK
3	Sha	44	R7.00	06-0190	DESCHUTES ROAD UC
4	Sha	44	R7.40	06-0152	COW CREEK
5	Sha	44	59.62	06-0084	HAT CREEK
6	Sha	89	14.37	06-0086	HAT CREEK
7	Sha	89	16.09	06-0087	HAT CREEK
8	Sha	89	31.21	06-0205	CAYTON CREEK
9	Sha	273	13.88	06-0011	OREGON GULCH
10	Sha	299	23.91	06-0035	REDDING OH
11	Sha	299	91.39	06-0068	FALL RIVER

PROJECT MANAGER
 LANCE BROWN
 DESIGN ENGINEER
 LANCE BROWN

Roy S. Cahill 02-01-11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



February 01, 2011
 PLANS APPROVAL DATE

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

CONTRACT No.	02-2E3404
PROJECT ID	0200000585

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

NO SCALE



USERNAME => s115152
 DGN FILE => 22e340ab001.dgn

UNIT 0156 PROJECT NUMBER & PHASE 0200000585

BORDER LAST REVISED 8/2/2008 CALTRANS WEB SITE IS: HTTP://WWW.DOT.CA.GOV/

DATE PLOTTED => 09-FEB-2011
 TIME PLOTTED => 09:19
 LAST REVISION
 02-01-11

P:\proj\2\02\2E340\plans\pans\bsee\22e340ga001.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED-DRAWN BY ROY CAHILL
 CHECKED BY KARLIE SMITH
 REVISIONS: 02-01-11
 REVISIONS: 02-01-11
 REVISIONS: 02-01-11

- NOTES:**
- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
 - SUPERELEVATION AND CROSS SLOPE TO MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.
 - COLD PLANE FULL WIDTH OF PAVED ROADWAY.
 - SEE GENERAL PLANS FOR DETAILS NOT SHOWN.
 - EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
 - EXISTING BRIDGE JOINTS ARE NOT SHOWN ON THIS PLAN.

LEGEND:

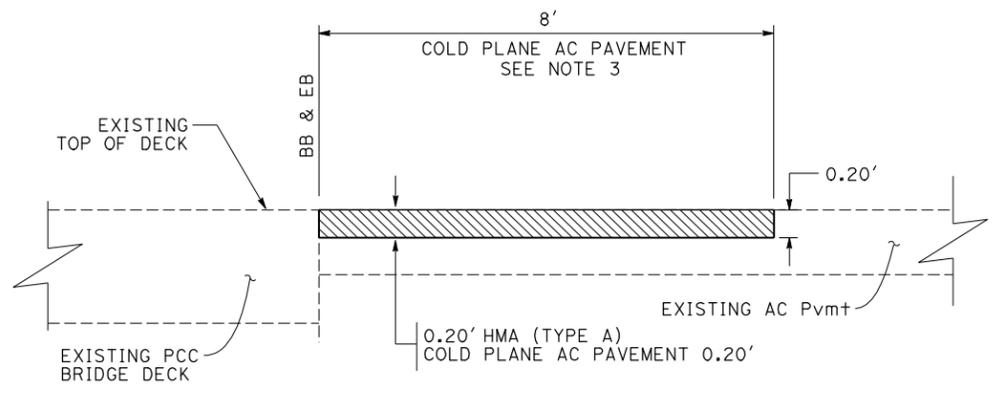
 HOT MIX ASPHALT (TYPE A)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,89 273,299	Var	2	18

Roy & Cahill 02-01-11
 REGISTERED CIVIL ENGINEER DATE
 02-01-11
 PLANS APPROVAL DATE

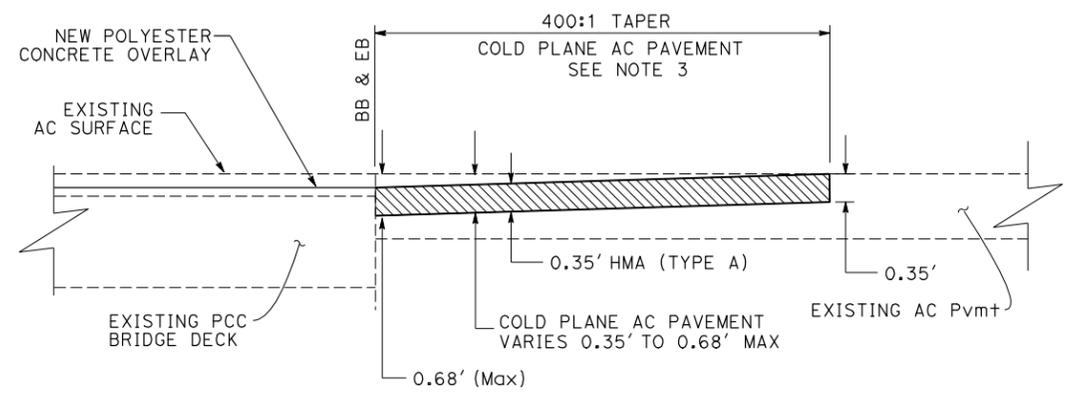
REGISTERED PROFESSIONAL ENGINEER
 ROY S. CAHILL
 No. 48876
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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PROFILE
MODIFY PAVEMENT TYPICAL

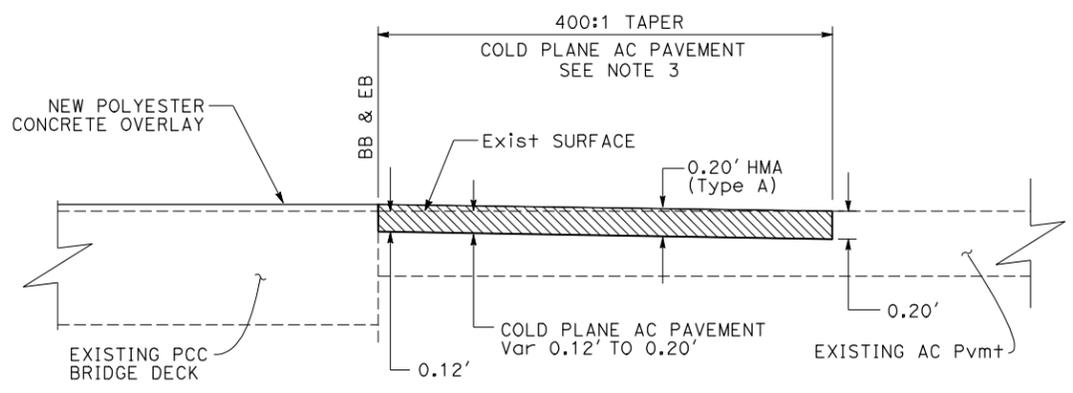
④ COW CREEK, Br No. 06-0152



PROFILE
MODIFY PAVEMENT TYPICAL

- ⑤ HAT CREEK, Br No. 06-0084
- ⑥ HAT CREEK, Br No. 06-0086
- ⑦ HAT CREEK, Br No. 06-0087
- ⑩ REDDING OH, Br No. 06-0035*

* HMA TAPER AT BB SHALL EXTEND APPROXIMATELY 60' TO PCC



PROFILE
MODIFY PAVEMENT TYPICAL

- ② CLOUGH CREEK, Br No. 06-0151
- ⑧ CAYTON CREEK, Br No. 06-0205

CONSTRUCTION DETAILS
NO SCALE
C-1

LAST REVISION: 02-01-11 DATE PLOTTED => 09-FEB-2011 TIME PLOTTED => 09:20

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Sha	44,89 272,299	Var	5	18

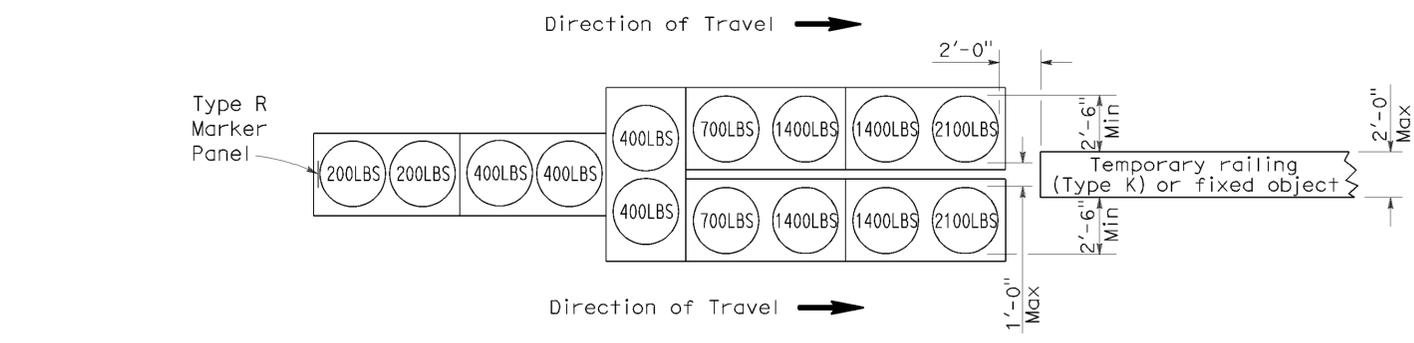
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

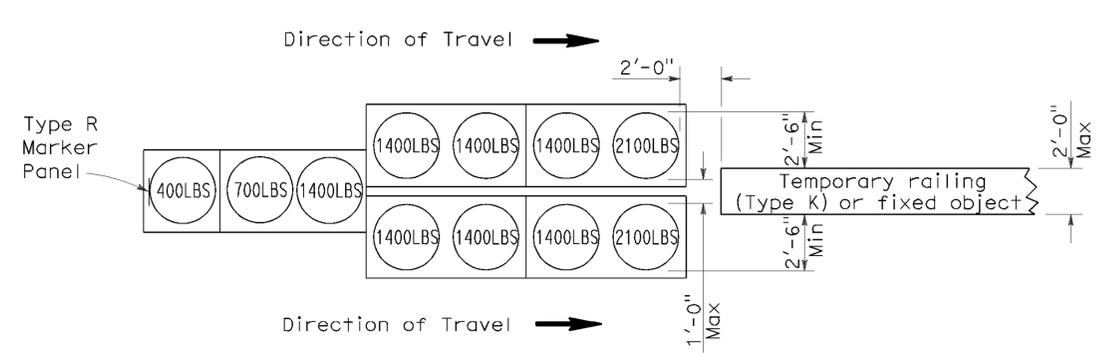
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 02-01-11



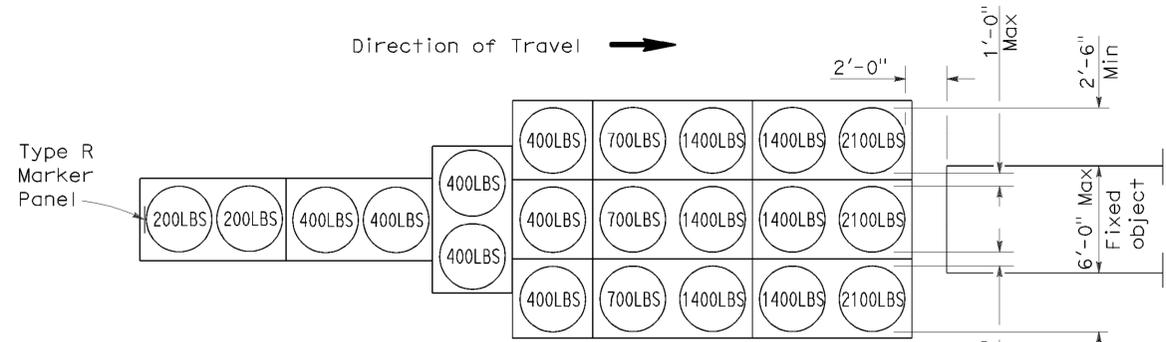
ARRAY 'TU14'

Approach speed 45 mph or more



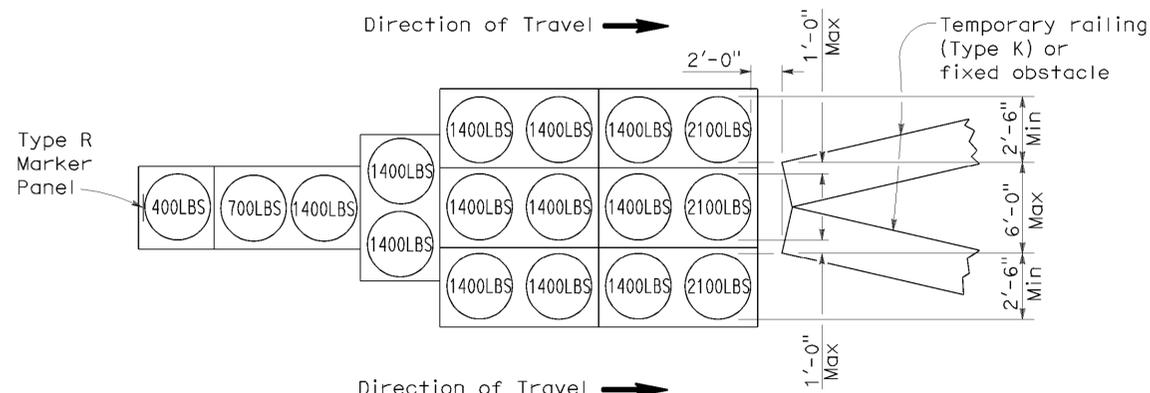
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

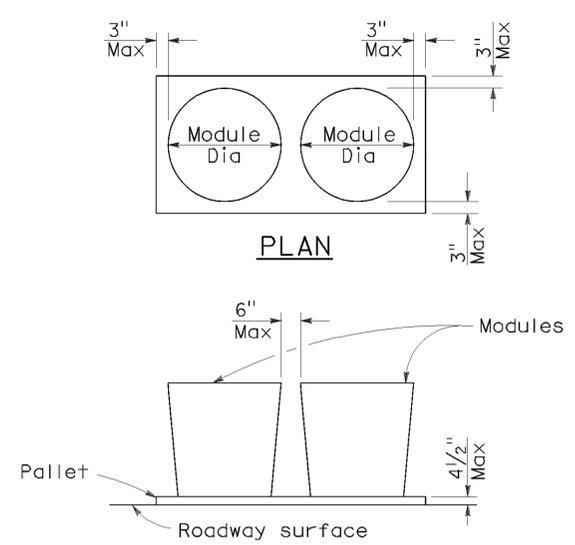


ARRAY 'TU17'

Approach speed less than 45 mph

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.



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

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

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2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Sha	44,89 272,299	Var	6	18

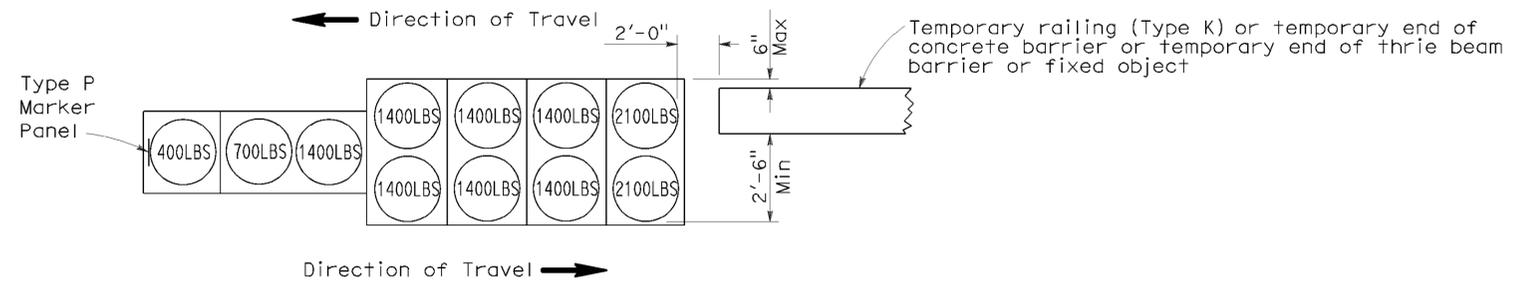
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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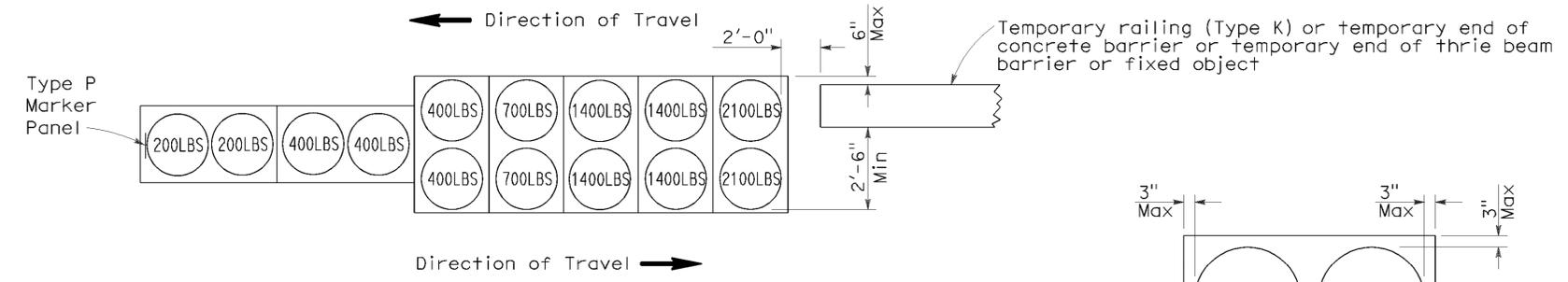
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 02-01-11



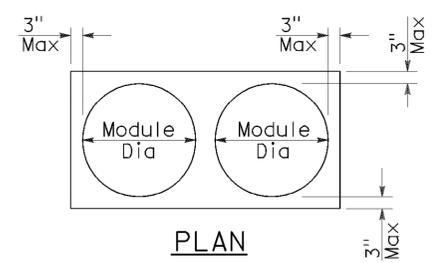
ARRAY 'TB11'

Approach speed less than 45 mph

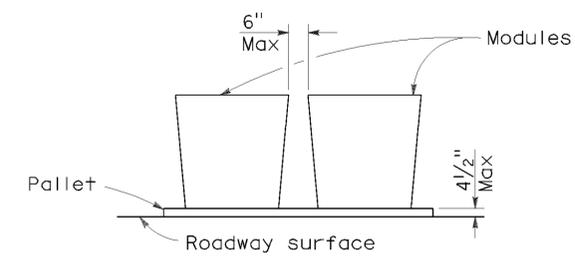


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

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2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Sha	44,89 272,299	Var	7	18

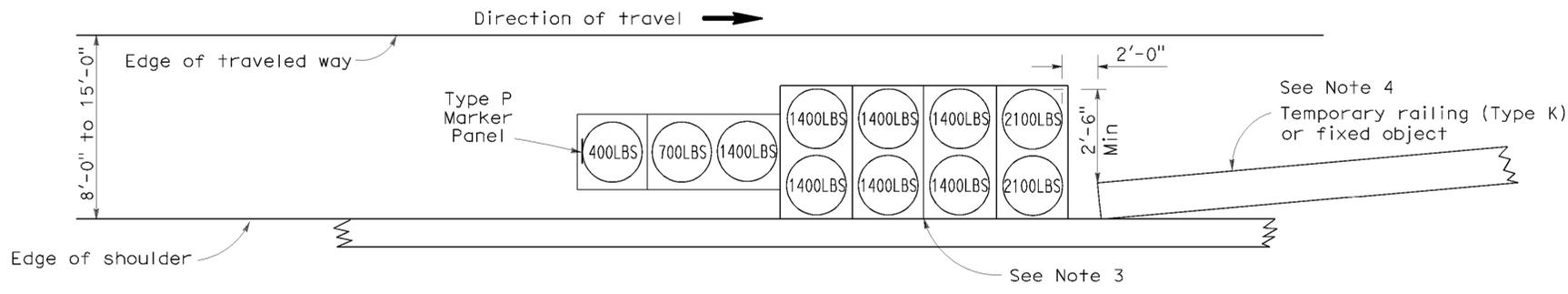
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

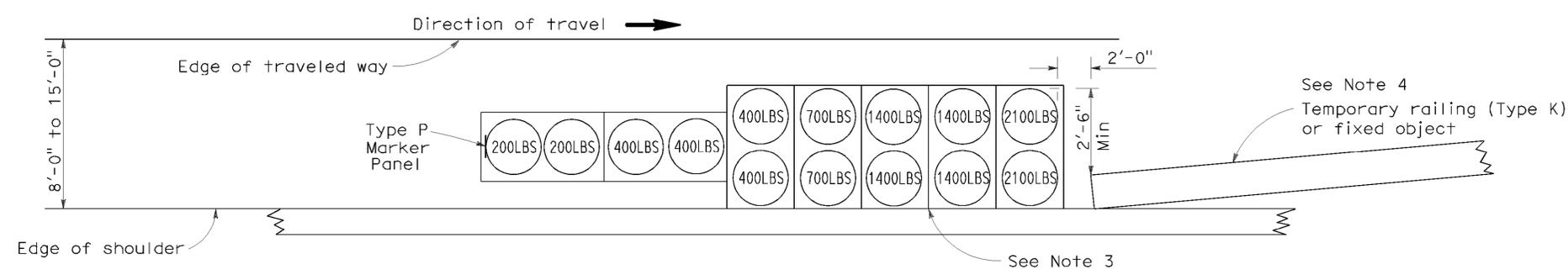
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

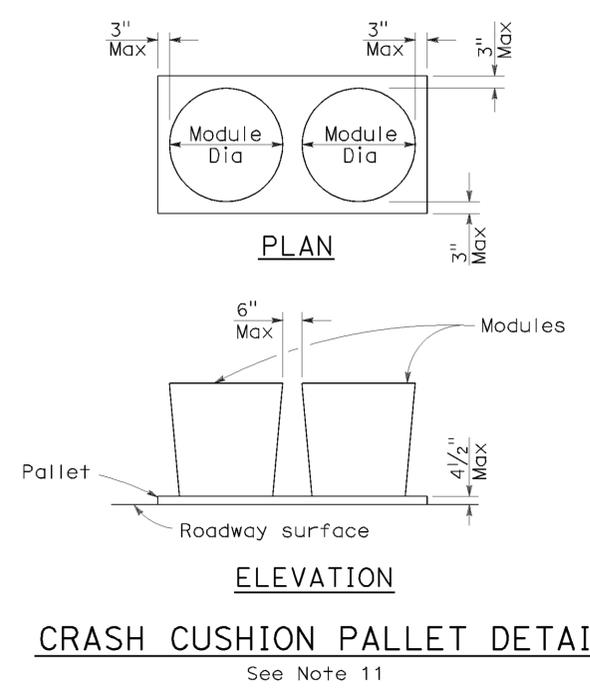
To accompany plans dated 02-01-11



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.

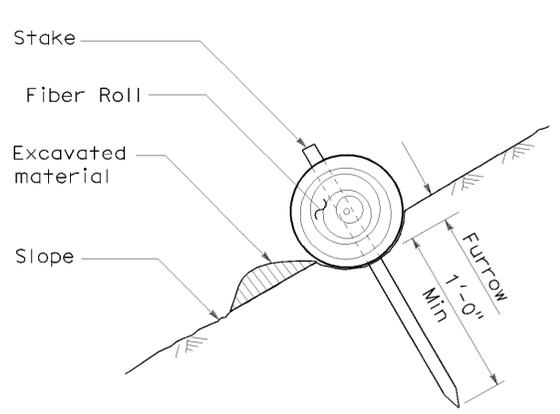
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

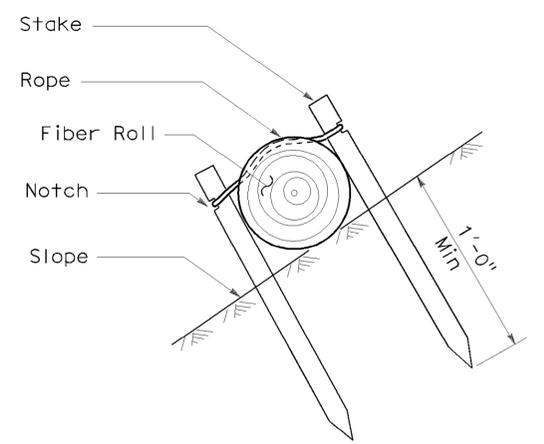
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Sha	44,89 272,299	Var	8	18

Robert B. Schett
 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.

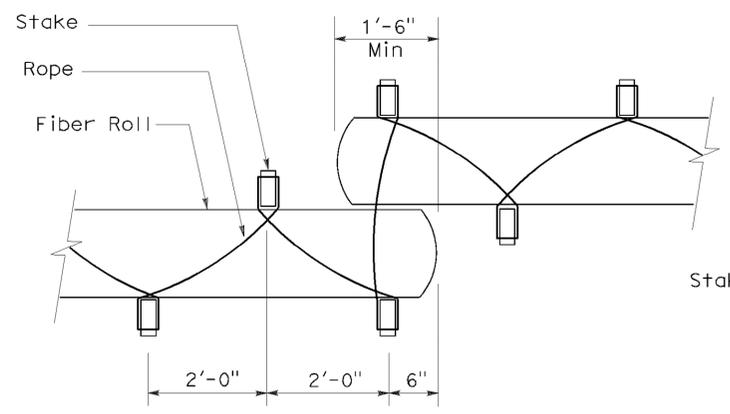
To accompany plans dated 02-01-11



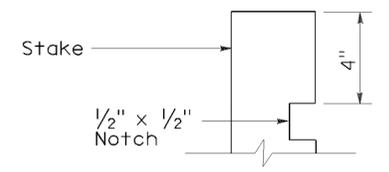
SECTION
TEMPORARY FIBER ROLL (TYPE 1)



SECTION
TEMPORARY FIBER ROLL (TYPE 2)



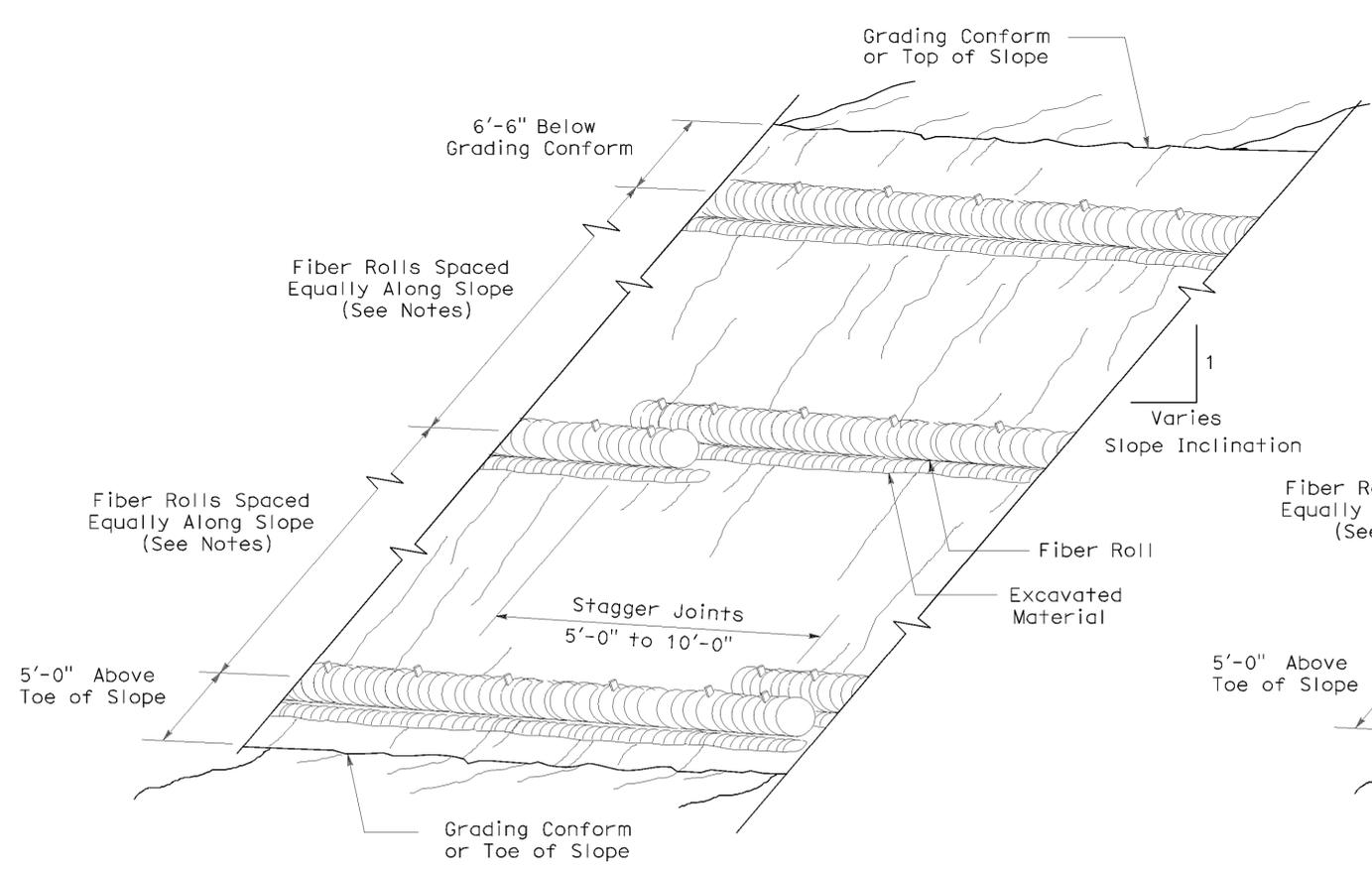
PLAN



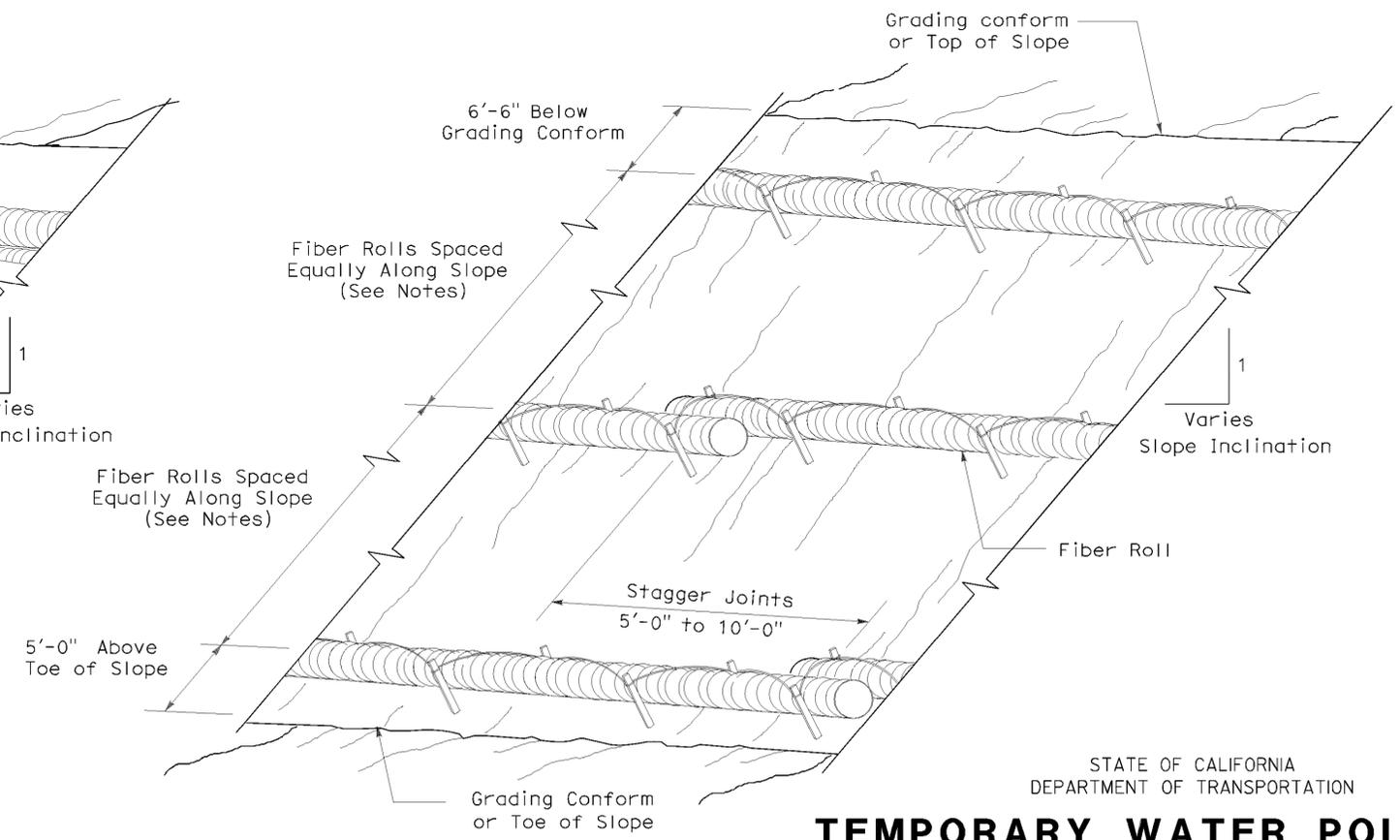
ELEVATION
STAKE NOTCH DETAIL

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

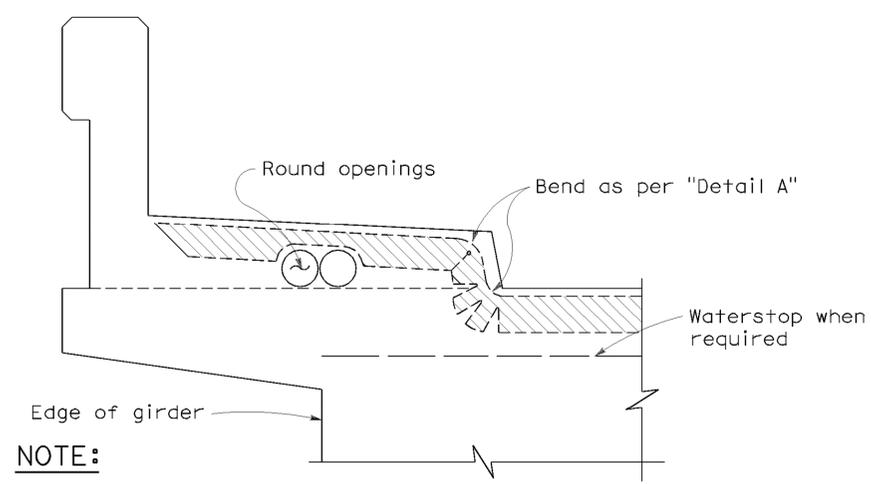
2006 REVISED STANDARD PLAN RSP T56

232

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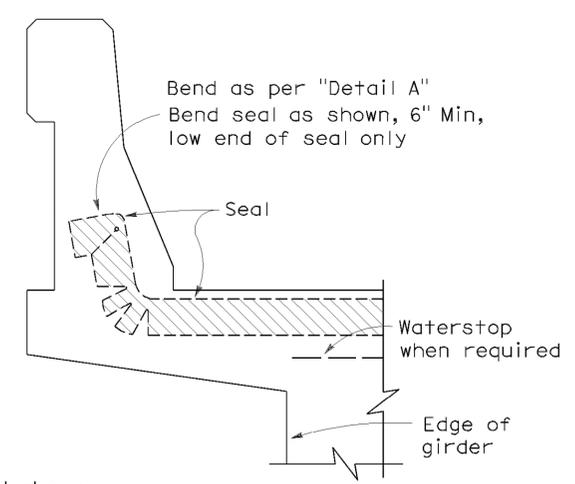
To accompany plans dated 02-01-11

2006 REVISED STANDARD PLAN RSP B6-21

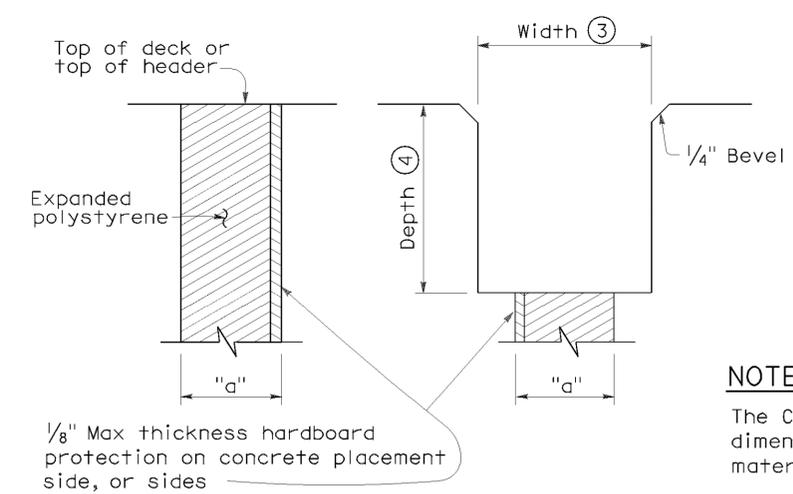


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



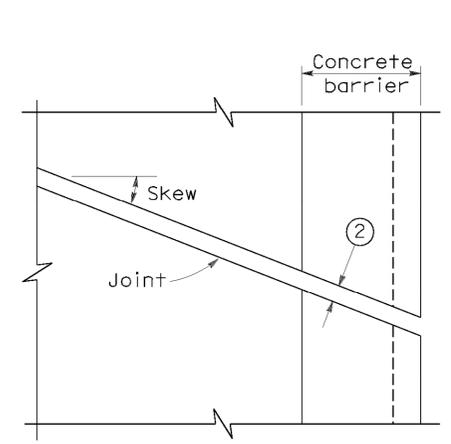
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

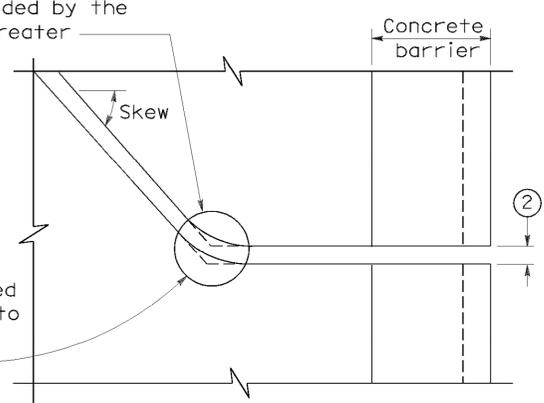
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



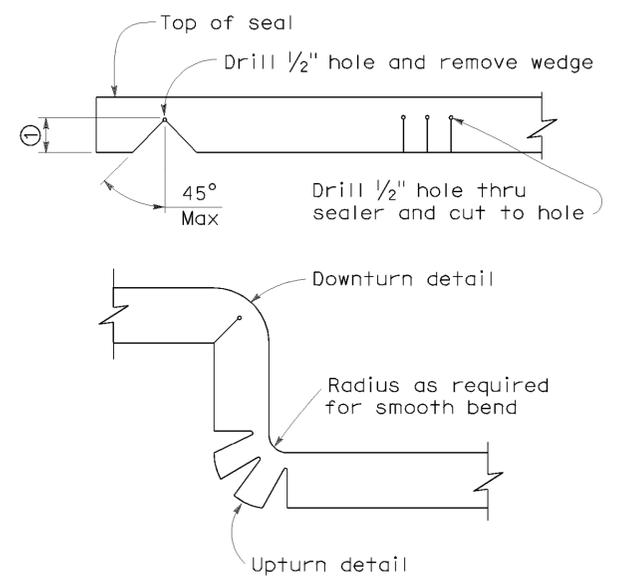
PLAN OF JOINT (SKEW ≤ 20°)

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.



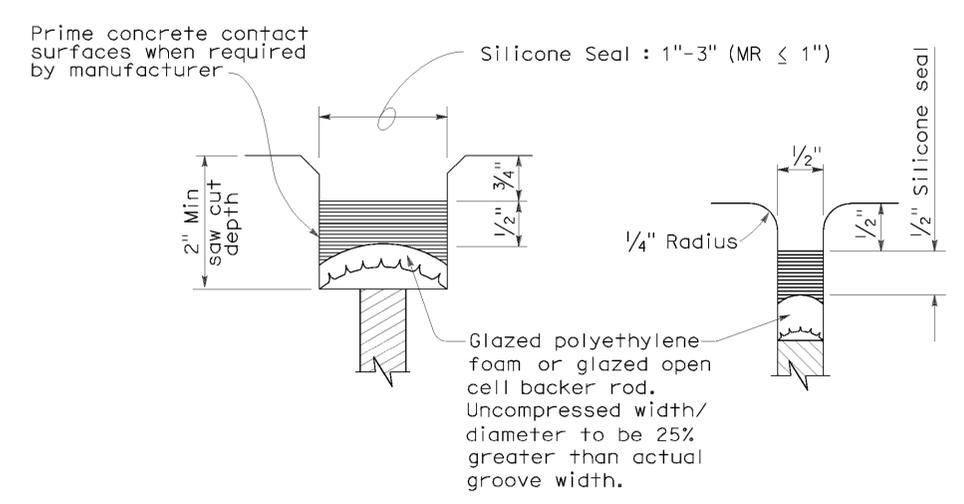
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1/2" 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

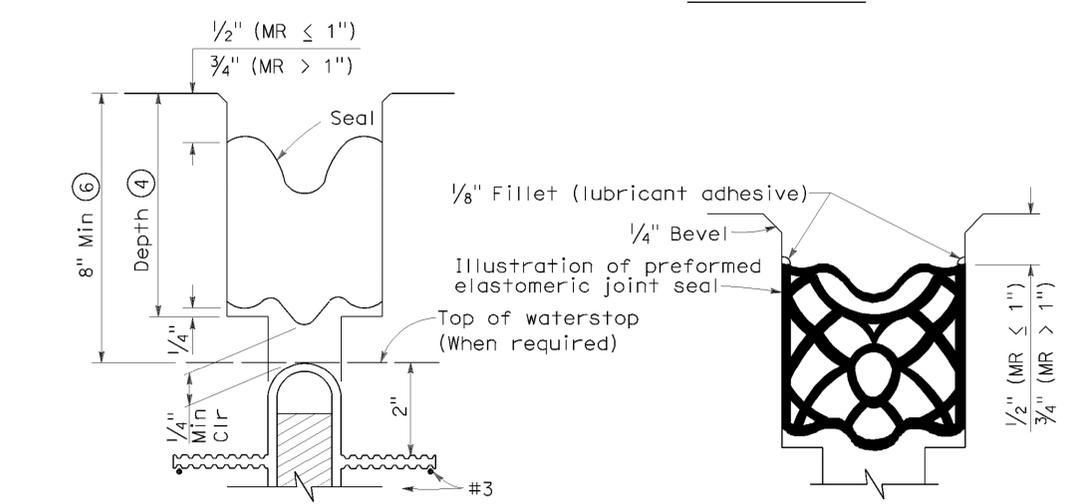


TYPE A SEAL

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.

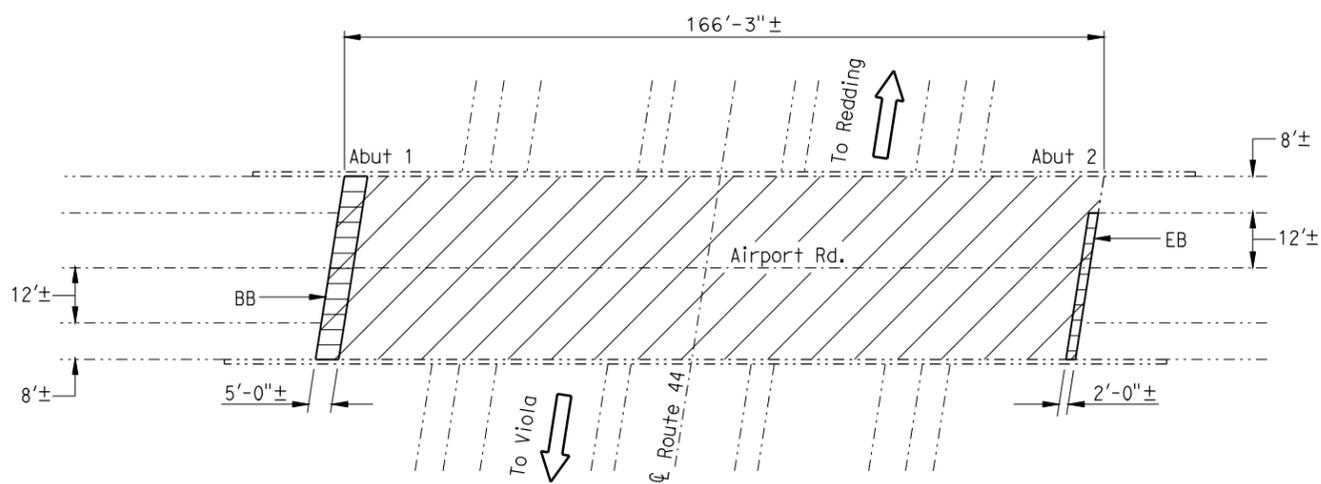
REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44, 89, 273 & 299	Varies	10	18

12-22-10
 REGISTERED CIVIL ENGINEER DATE
 2-01-11
 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.

ARLENE FRANK
 REGISTERED PROFESSIONAL ENGINEER
 No. C 55562
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

- NOTES:
- Indicates existing.
 - 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 prepare concrete bridge deck surface, furnish and place new 1" minimum and varying depth polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".
 - Indicates limits of remove contrast treatment.



1 - AIRPORT ROAD OC

BRIDGE NO. 06-0182

AIRPORT ROAD OC

Br No. 06-0182, SHA, Route 44, PM R3.63
1"=20'

QUANTITIES

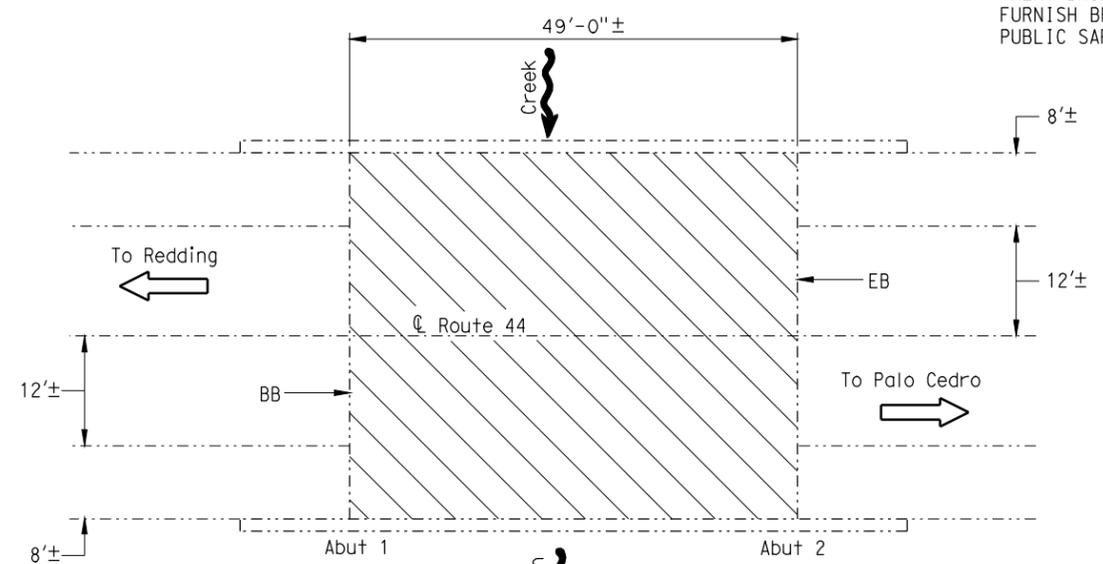
- REMOVE CONTRAST TREATMENT 266 SQFT
- REMOVE UNSOUND CONCRETE 17 CF
- CLEAN BRIDGE DECK 6,652 SQFT
- RAPID SETTING CONCRETE (PATCH) 17 CF
- TREAT BRIDGE DECK 6,652 SQFT
- FURNISH BRIDGE DECK TREATMENT MATERIAL 78 GAL
- PUBLIC SAFETY PLAN LUMP SUM

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	DETAILS
7	MISCELLANEOUS DETAILS
8	JOINT SEAL DETAILS NO. 1
9	JOINT SEAL DETAILS NO. 2

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")



CLOUGH CREEK

Br No. 06-0151, SHA, Route 44, PM R4.55
1"=10'

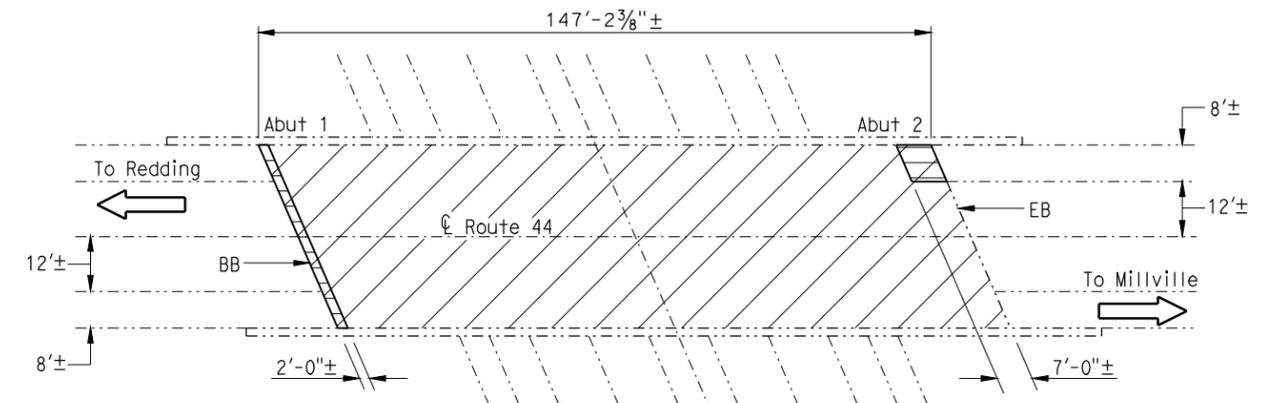
2 - CLOUGH CREEK

BRIDGE NO. 06-0151

QUANTITIES

- REMOVE UNSOUND CONCRETE 5 CF
- PREPARE CONCRETE BRIDGE DECK SURFACE 1,960 SQFT
- RAPID SETTING CONCRETE (PATCH) 5 CF
- FURNISH POLYESTER CONCRETE OVERLAY 196 CF
- PLACE POLYESTER CONCRETE OVERLAY 1,960 SQFT
- PUBLIC SAFETY PLAN LUMP SUM

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



DESCHUTES ROAD UC

Br No. 06-0190, SHA, Route 44, PM R7.00
1"=20'

3 - DESCHUTES ROAD UC

BRIDGE NO. 06-0190

QUANTITIES

- REMOVE CONTRAST TREATMENT 136 SQFT
- REMOVE UNSOUND CONCRETE 15 CF
- CLEAN BRIDGE DECK 5888 SQFT
- RAPID SETTING CONCRETE (PATCH) 15 CF
- TREAT BRIDGE DECK 5888 SQFT
- FURNISH BRIDGE DECK TREATMENT MATERIAL 69 GAL

 DESIGN ENGINEER 12-3-10	DESIGN BY A. Frank	CHECKED D. Floyd	LAYOUT BY N. Kelley	CHECKED A. Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Varies	ROUTE 44, 89, 273 & 299 BRIDGES GENERAL PLAN NO. 1
	DETAILS BY N. Kelley	CHECKED D. Floyd	BY S. Nelapatla	PLANS AND SPECIFICATIONS COMPARED S. Nelapatla			POST MILE Varies	
	QUANTITIES BY A. Frank	CHECKED D. Floyd					Various	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 02601 EA 2E3401 DISREGARD PRINTS BEARING EARLIER REVISION DATES 5-11-10 7-21-10 12-3-10 12-15-10 12-17-10 SHEET 1 OF 9

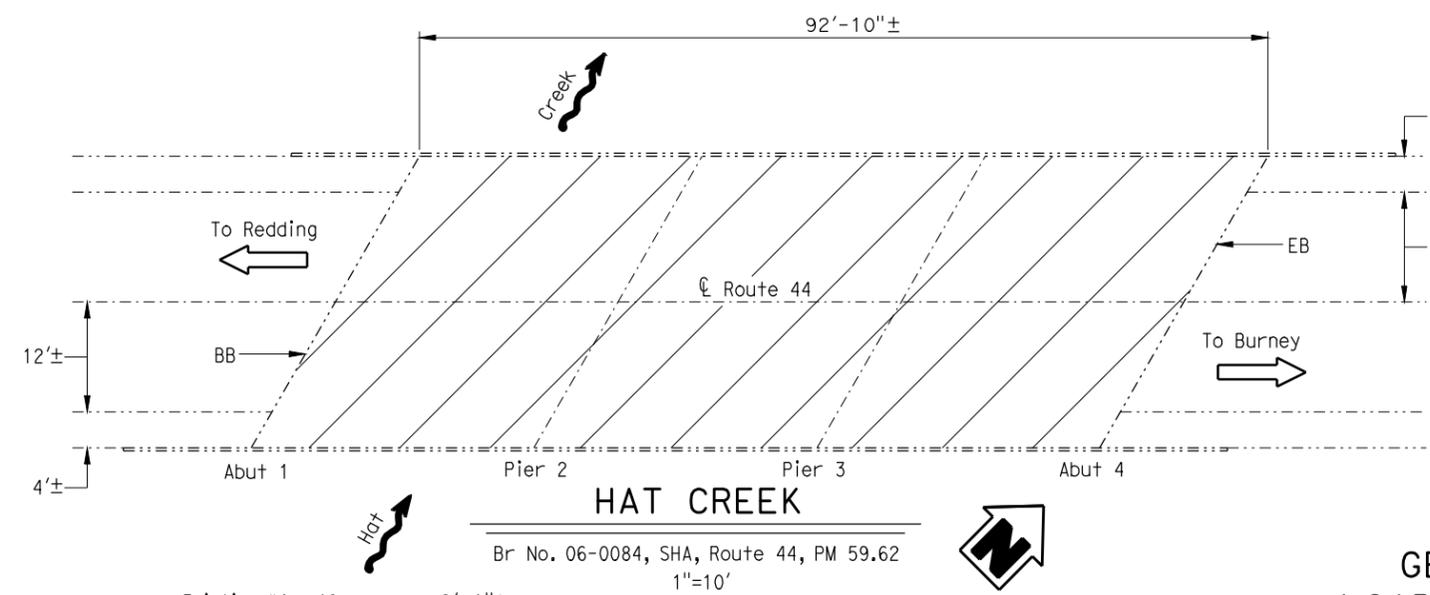
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44, 89, 273&299	Varies	11	18

REGISTERED CIVIL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

12-22-10
 DATE
 2-01-11
 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.



5 - HAT CREEK BRIDGE NO. 06-0084

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	2,970	SQFT
REMOVE UNSOUND CONCRETE	22	CF
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
HOT MIX ASPHALT (TYPE B)	56	TON
STRUCTURAL CONCRETE, BRIDGE	2	CY
RAPID SETTING CONCRETE (PATCH)	22	CF
DECK SEAL	3,017	SQFT

- NOTES:
- Indicates existing.
 - Indicates location of existing joint seal removal and placement of new joint seal.
 - Indicates limits of remove existing 1/4"± latex modified concrete and polyester concrete overlay and prepare concrete bridge deck surface, furnish and place new 1/4" minimum and varying depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".
 - Indicates limits of remove existing 6"± depth AC overlay and deck seal (protective membrane waterproofing). Remove unsound concrete on bridge deck and patch with rapid setting concrete. Remove unsound concrete on existing girders and patch with rapid strength concrete. For details see "DETAILS" sheet and "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 2" sheet. Place new deck seal and 3" minimum depth HMA overlay.
 - Indicates location of remove full depth (6 1/4"±) deck concrete; retain all reinforcing steel. Clean reinforcing steel bars and remove all loose concrete, place new 6 1/4" depth concrete deck. For details see "SECTION A-A".

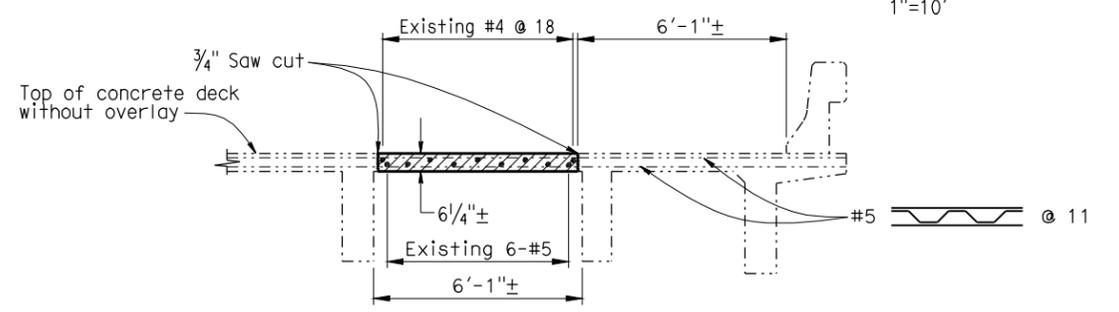
**GENERAL NOTES
LOAD FACTOR DESIGN**

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

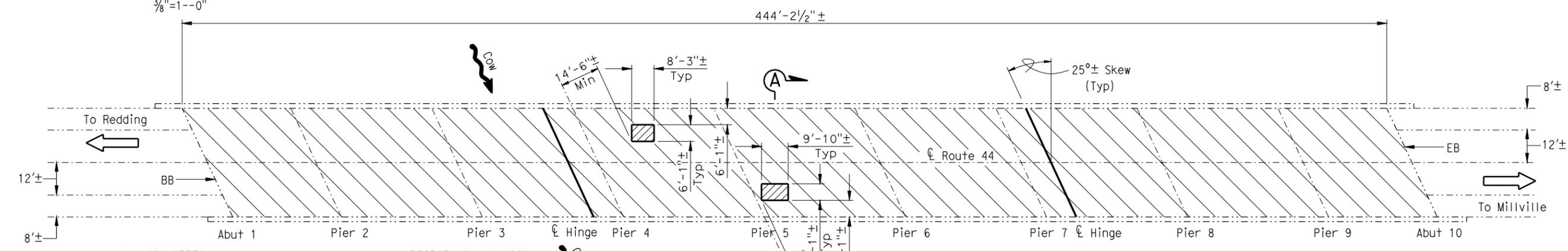
DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: fy = 60,000 psi
f'c = 3600 psi
n = 8



SECTION A-A NOTE: Right side shown left side similar



4 - COW CREEK BRIDGE NO. 06-0152

QUANTITIES

REMOVE CONCRETE DECK SURFACE	17,770	SQFT
REMOVE UNSOUND CONCRETE	44	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	17,770	SQFT
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	2	CY
CLEAN EXPANSION JOINT	90	LF
RAPID SETTING CONCRETE (PATCH)	44	CF
FURNISH POLYESTER CONCRETE OVERLAY	2,222	CF
PLACE POLYESTER CONCRETE OVERLAY	17,770	SQFT
JOINT SEAL (MR 2")	90	LF

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

 DESIGN ENGINEER 12-3-10	DESIGN	BY A. Frank	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED A. Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Varies	ROUTE 44, 89, 273 & 299 BRIDGES GENERAL PLAN NO. 2
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY S. Nelapatla	CHECKED S. Nelapatla			POST MILE	Various	
	QUANTITIES	BY A. Frank	CHECKED D. Floyd	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 02601 EA 2E3401			REVISION DATES	5-11-10 7-21-10 11-3-10 12-16-10 12-28-10 2-8-11	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

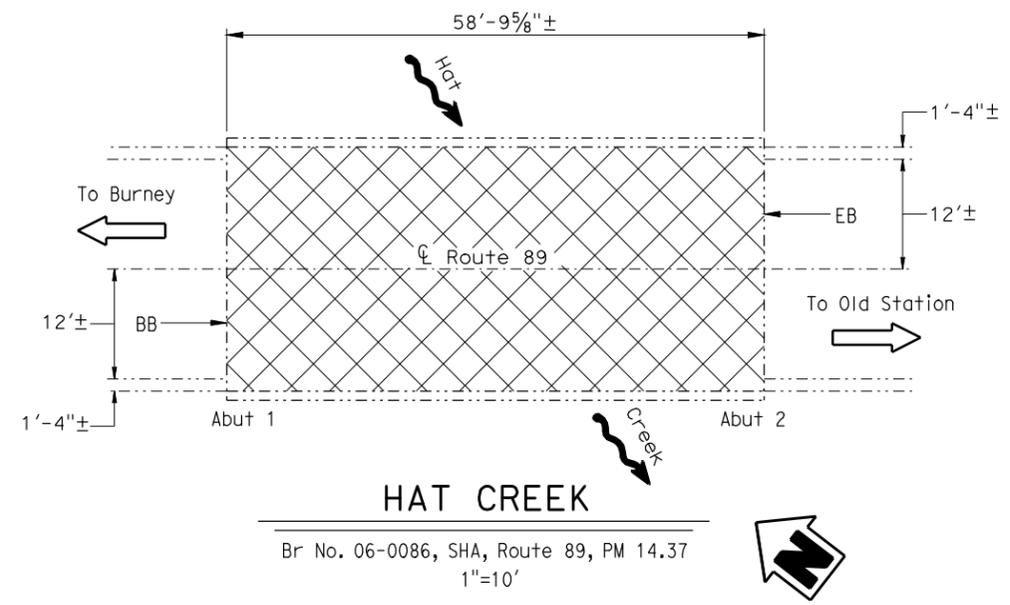
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89, 273&299	Varies	12	18

Arlene Frank 12-22-10
 REGISTERED CIVIL ENGINEER DATE
 2-01-11
 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.

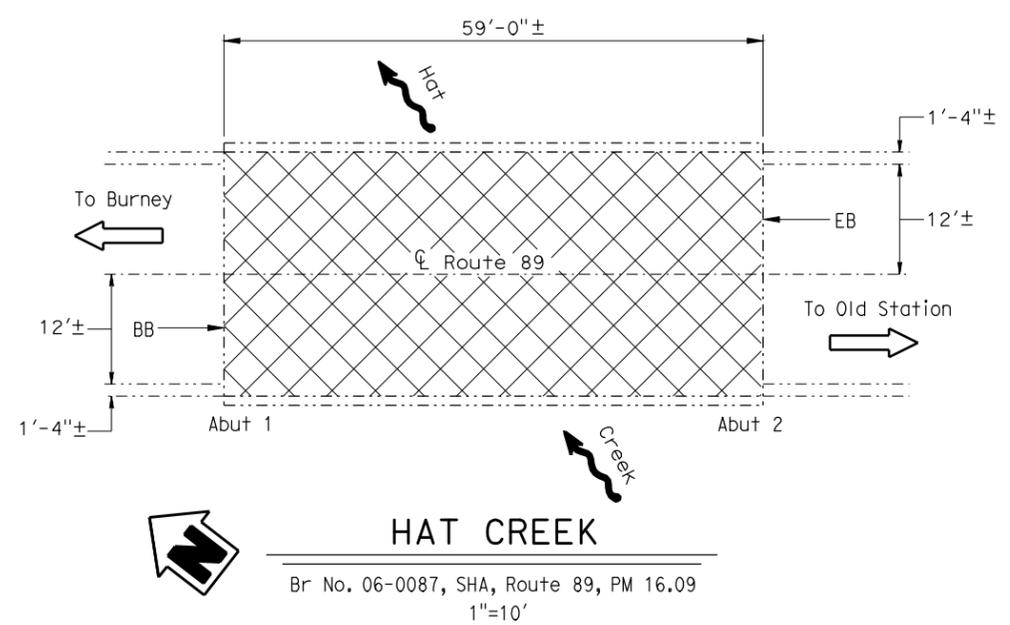
NOTES: (Apply to this sheet only)

- Indicates existing.
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum depth and varying polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".
-  Indicates limits of remove existing 3"± to 5"± AC overlay and bituthene deck seal.



6 - HAT CREEK BRIDGE NO. 06-0086

QUANTITIES	
REMOVE ASPHALT CONCRETE SURFACING	1,570 SQFT
REMOVE UNSOUND CONCRETE	12 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,570 SQFT
RAPID SETTING CONCRETE (PATCH)	12 CF
FURNISH POLYESTER CONCRETE OVERLAY	157 CF
PLACE POLYESTER CONCRETE OVERLAY	1,570 SQFT



7 - HAT CREEK BRIDGE NO. 06-0087

QUANTITIES	
REMOVE ASPHALT CONCRETE SURFACING	1,580 SQFT
REMOVE UNSOUND CONCRETE	12 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,580 SQFT
RAPID SETTING CONCRETE (PATCH)	12 CF
FURNISH POLYESTER CONCRETE OVERLAY	159 CF
PLACE POLYESTER CONCRETE OVERLAY	1,580 SQFT

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

 DESIGN ENGINEER 12-3-10	DESIGN	BY A. Frank	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED A. Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Varies	ROUTE 44,89,273 & 299 BRIDGES GENERAL PLAN NO. 3
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY S. Nelapatla	CHECKED S. Nelapatla			POST MILE	Varies	
	QUANTITIES	BY A. Frank	CHECKED D. Floyd	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 02601 EA 2E3401			REVISION DATES	5-11-10 7-21-10 12-3-10 12-15-10	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

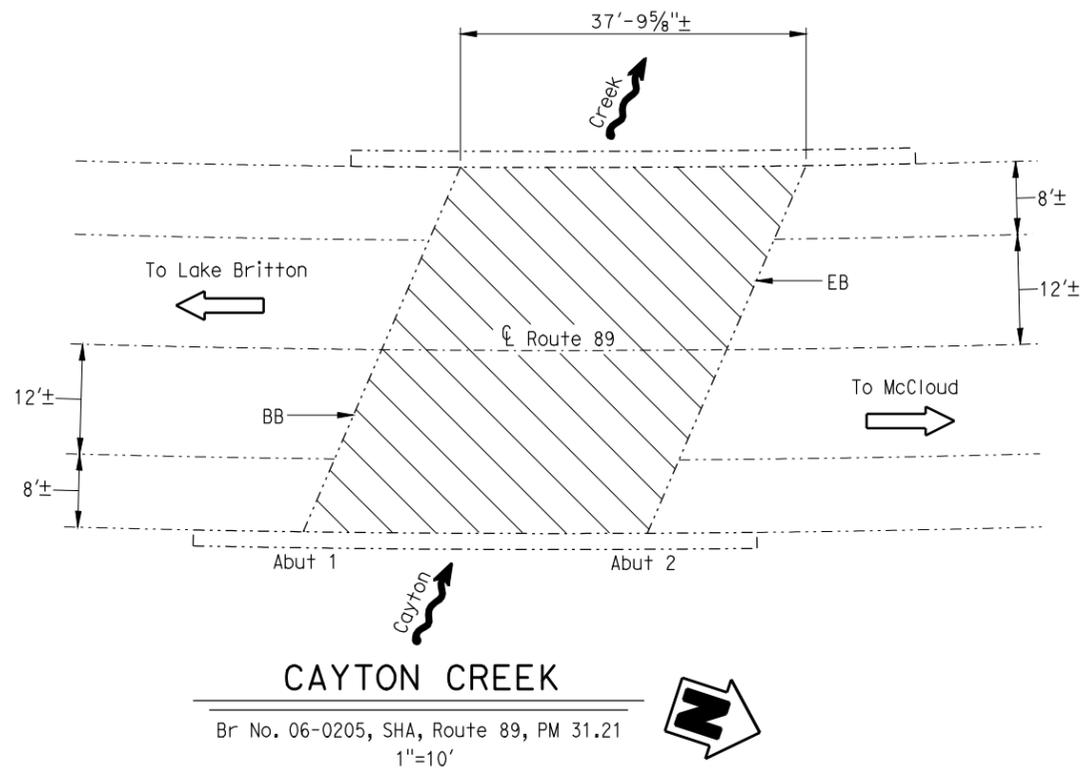
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89, 273&299	Varies	13	18

Arlene Frank 12-22-10
 REGISTERED CIVIL ENGINEER DATE
 2-01-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA



CAYTON CREEK

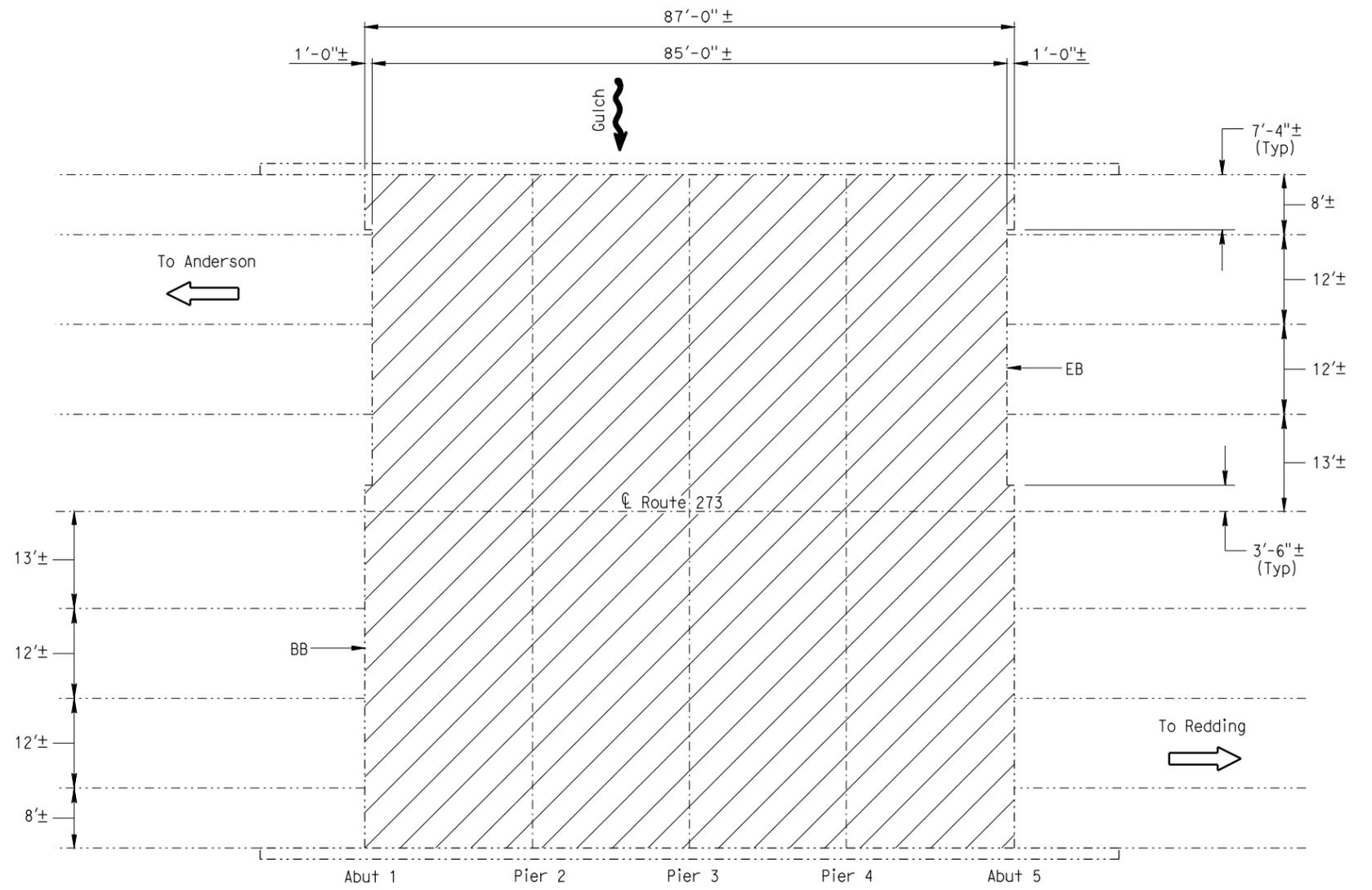
Br No. 06-0205, SHA, Route 89, PM 31.21
1"=10'

8 - CAYTON CREEK BRIDGE NO. 06-0205

QUANTITIES	
REMOVE UNSOUND CONCRETE	4 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,500 SQFT
RAPID SETTING CONCRETE (PATCH)	4 CF
FURNISH POLYESTER CONCRETE OVERLAY	150 CF
PLACE POLYESTER CONCRETE OVERLAY	1,500 SQFT

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

- NOTES:
- Indicates existing.
 - Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck, remove unsound concrete and patch with rapid setting concrete as shown on DECK REPAIR DETAIL.
 - Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum depth and varying polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".



OREGON GULCH

Br No. 06-0011, SHA, Route 273, PM 13.88
1"=10'

9 - OREGON GULCH BRIDGE NO. 06-0011

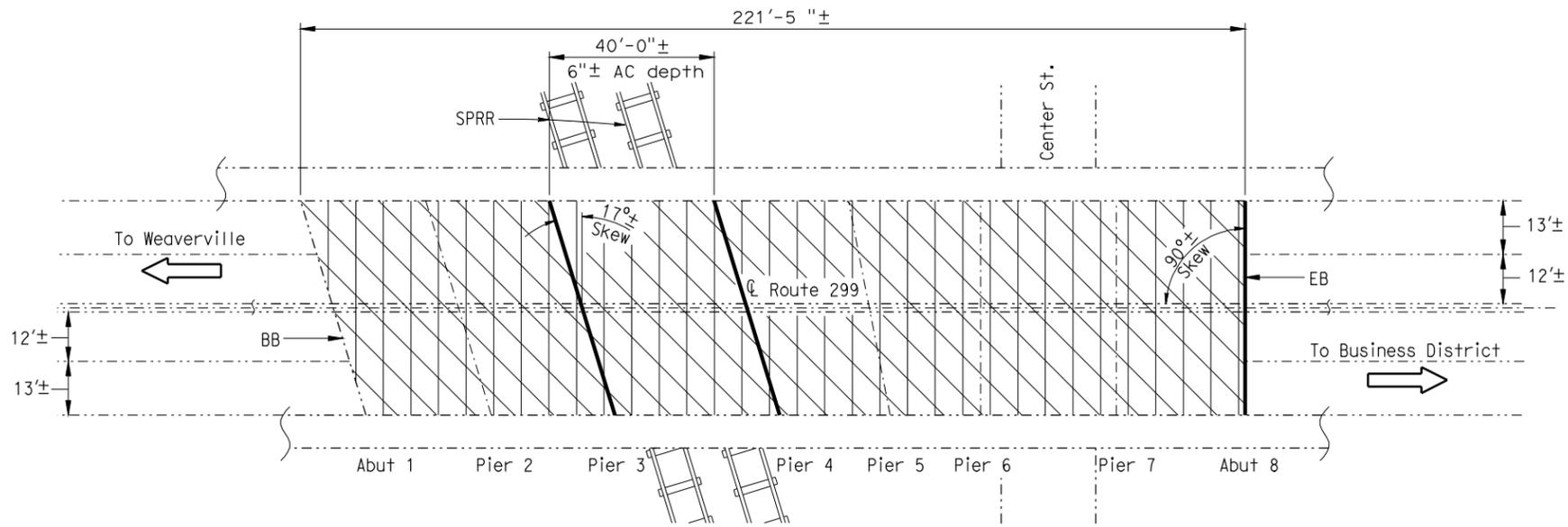
QUANTITIES	
REMOVE UNSOUND CONCRETE	39 CF
CLEAN BRIDGE DECK	7,762 SQFT
RAPID SETTING CONCRETE (PATCH)	39 CF
TREAT BRIDGE DECK	7,762 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	91 GAL
PUBLIC SAFETY PLAN	LUMP SUM

 DESIGN ENGINEER 12-3-10	DESIGN	BY A. Frank	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED A. Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Varies	ROUTE 44,89,273 & 299 BRIDGES GENERAL PLAN NO. 4	
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY S. Nelapatle	CHECKED S. Nelapatle			POST MILE	Various		
	QUANTITIES	BY A. Frank	CHECKED D. Floyd						REVISION DATES	5-11-10, 7-22-10, 12-3-10, 12-15-10		
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 02601 EA 2E3401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 4 OF 9

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89, 273&299	Varies	14	18

12-22-10
 REGISTERED CIVIL ENGINEER DATE
 2-01-11
 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.



REDDING OVERHEAD

Br No. 06-0035, SHA, Route 299, PM 23.91
1"=20'

10 - REDDING OH

BRIDGE NO. 06-0035

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	11,075	SQFT
REMOVE UNSOUND CONCRETE	83	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,000	SQFT
CLEAN EXPANSION JOINT	158	LF
RAPID SETTING CONCRETE (PATCH)	83	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,500	CF
PLACE POLYESTER CONCRETE OVERLAY	11,000	SQFT
JOINT SEAL (MR 1")	158	LF
PUBLIC SAFETY PLAN		LUMP SUM

NOTES:

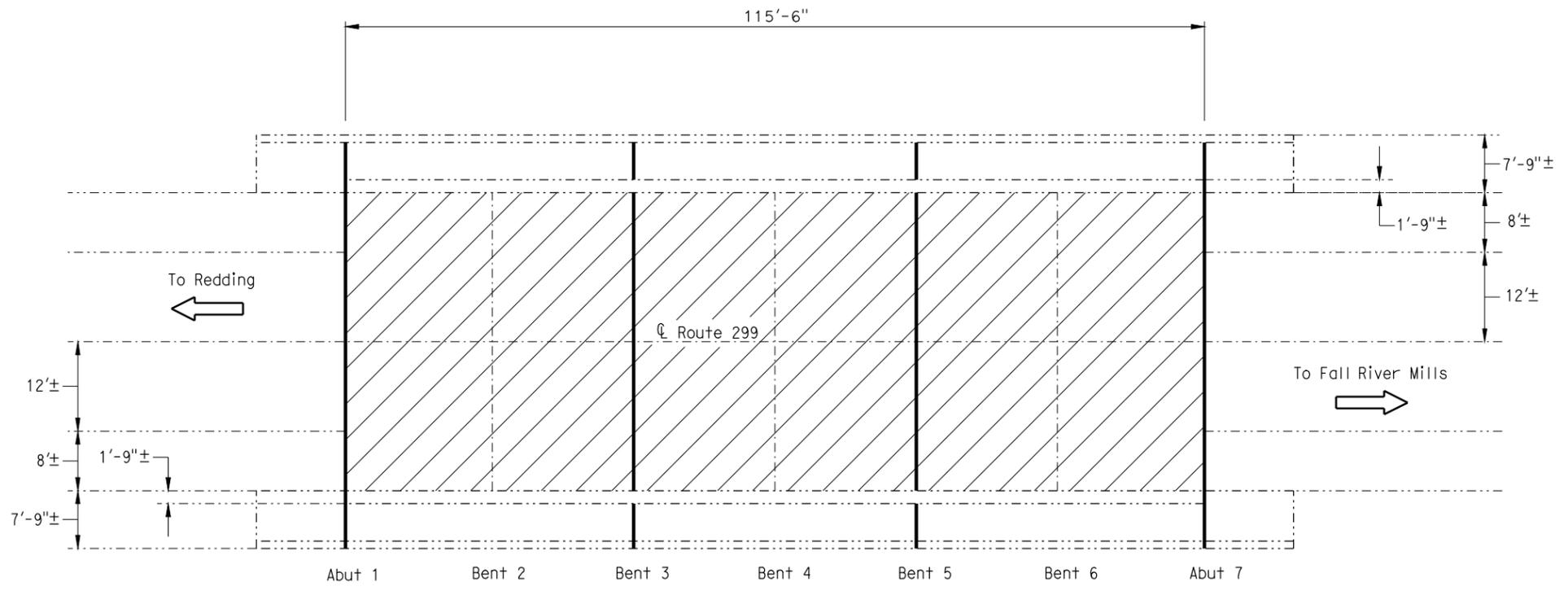
- Indicates existing.
- Indicates location of existing joint seal removal and placement of new joint seal.
- Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to treating bridge deck remove unsound concrete and patch with rapid setting concrete as shown on the "DECK REPAIR DETAILS".
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum and varying 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 REPAIR DETAIL-OVERLAY".
- Indicates limits of remove existing 4" minimum to 6" maximum (Span3 only) depth AC overlay and deck seal (protective membrane waterproofing).

11 - FALL RIVER

BRIDGE NO. 06-0068

QUANTITIES

REMOVE UNSOUND CONCRETE	12	CF
CLEAN BRIDGE DECK	4,620	SQFT
CLEAN EXPANSION JOINT	219	LF
RAPID SETTING CONCRETE (PATCH)	12	CF
SNOWPLOW DEFLECTOR	36	EA
JOINT SEAL (MR 1")	223	LF
TREAT BRIDGE DECK	4,620	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	54	GAL
PUBLIC SAFETY PLAN		LUMP SUM



FALL RIVER

Br No. 06-0068, SHA, Route 299, PM 91.39
1"=10'

NOTE: For additional details, see "MISCELLANEOUS DETAILS" sheet.

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

 DESIGN ENGINEER 12-3-10	DESIGN	BY A. Frank	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED A. Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Varies	ROUTE 44,89,273 & 299 BRIDGES GENERAL PLAN NO. 5
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY S. Nelapatle	CHECKED S. Nelapatle			POST MILE	Various	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 02601 EA 2E3401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 5-11-10 12-2-10 12-3-10 12-16-10 12-28-10 2-8-11		SHEET 5 OF 9

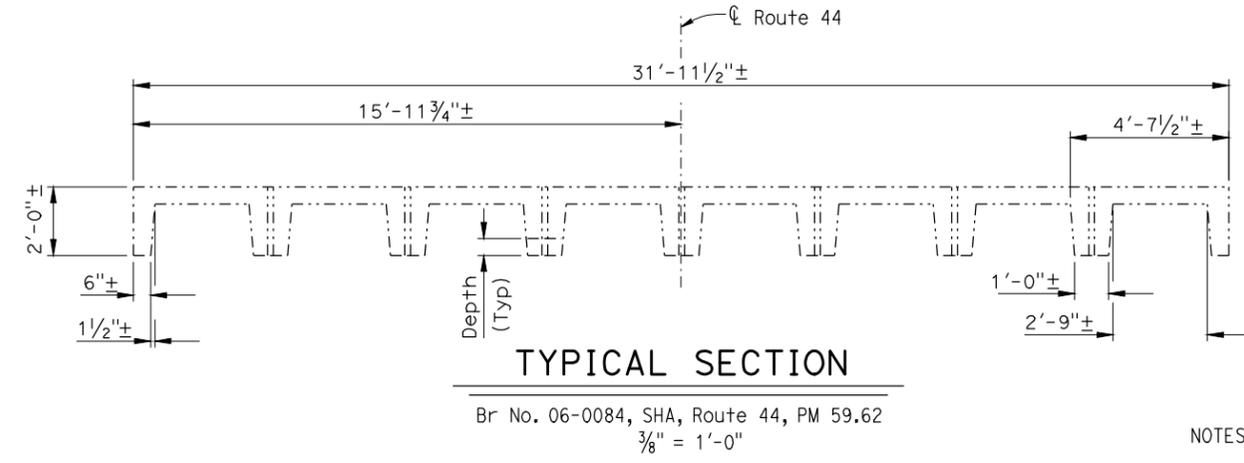
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89,273&299	Varies	15	18

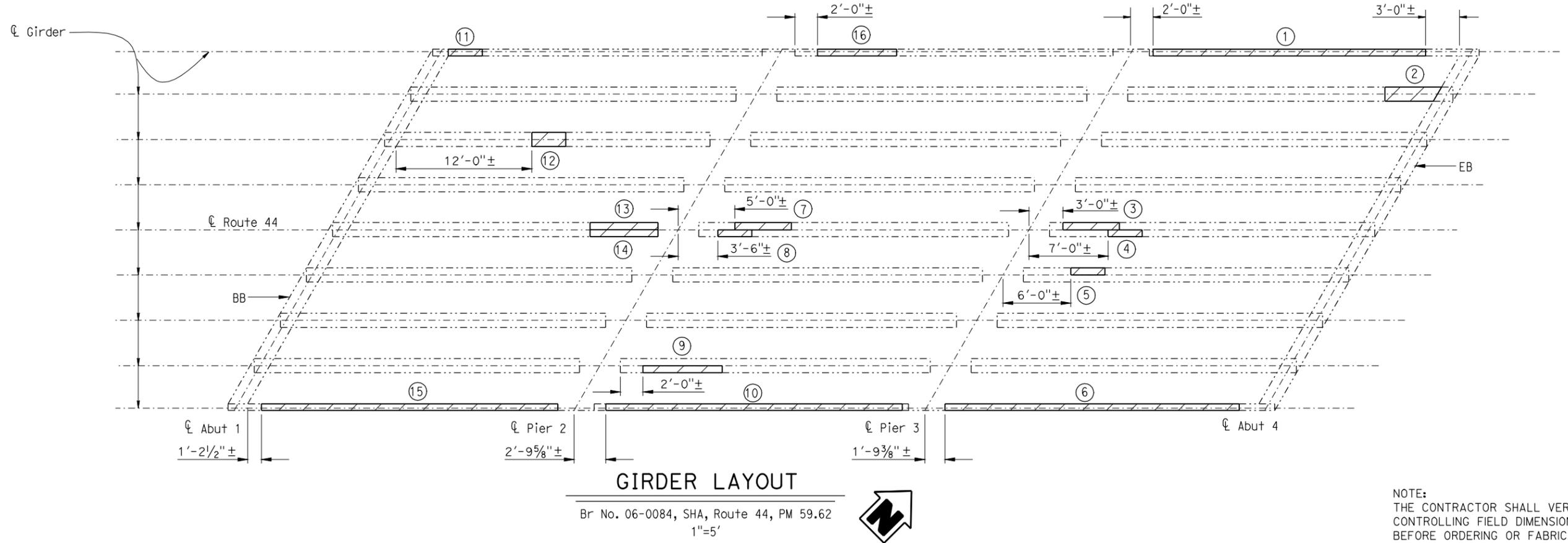
Arlene Frank
 REGISTERED CIVIL ENGINEER DATE 12-22-10
 2-01-11
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

GIRDER SPALLS REPAIR TABLE		
LOCATION	LENGTH (FT)	DEPTH (INCHES)
1	26'-0"	8
2	5'-0"	6
3	5'-0"	4
4	3'-0"	4
5	3'-0"	4
6	26'-0"	5
7	5'-0"	4
8	3'-0"	4
9	7'-0"	6
10	26'-3"	4
11	3'-0"	3
12	3'-0"	6
13	6'-0"	6
14	6'-0"	6
15	26'-3"	4
16	7'-0"	4



NOTES:
 ----- Indicates existing.
 Indicates limits of remove concrete and prepare concrete bridge girders for new concrete.



NOTE:
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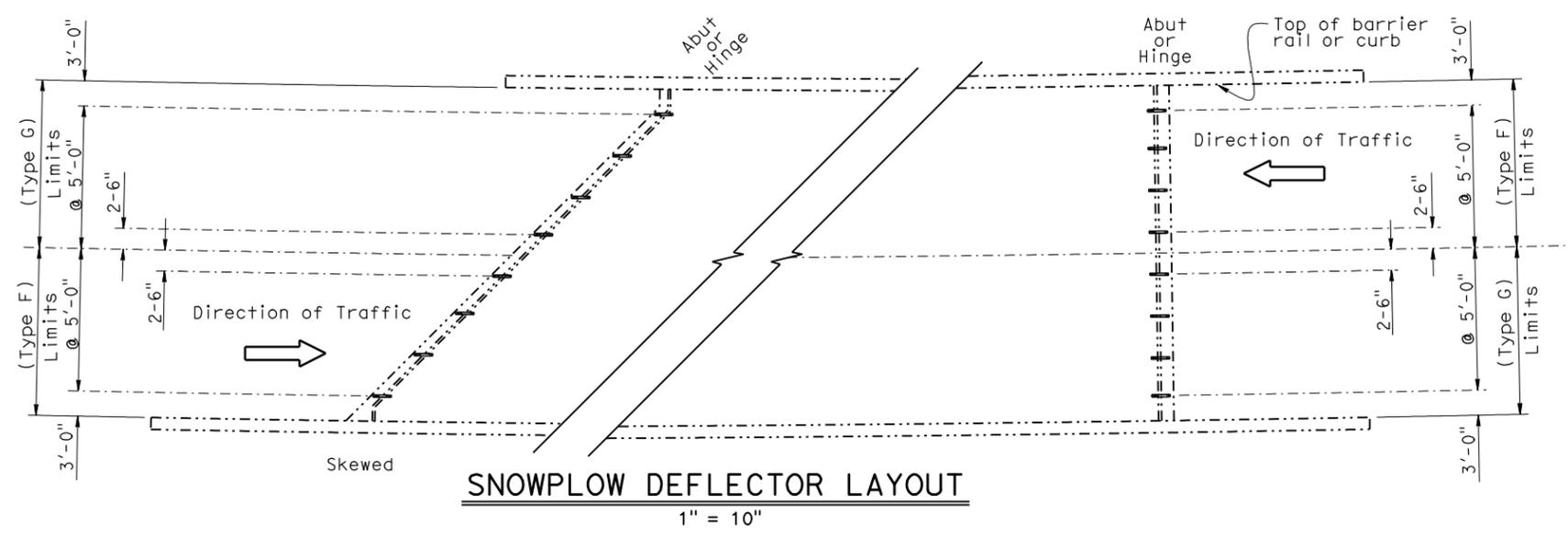
DESIGN	BY A. Frank	CHECKED D. Floyd	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 44,89,273 & 299 BRIDGES
DETAILS	BY N. Kelley	CHECKED D. Floyd			Varies	
QUANTITIES	BY A. Frank	CHECKED D. Floyd			POST MILE	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 02601 EA 2E3401
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 5-11-10 7-22-10 12-16-10 12-28-10 2-8-11
 SHEET 6 OF 9
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89, 273&299	Varies	16	18

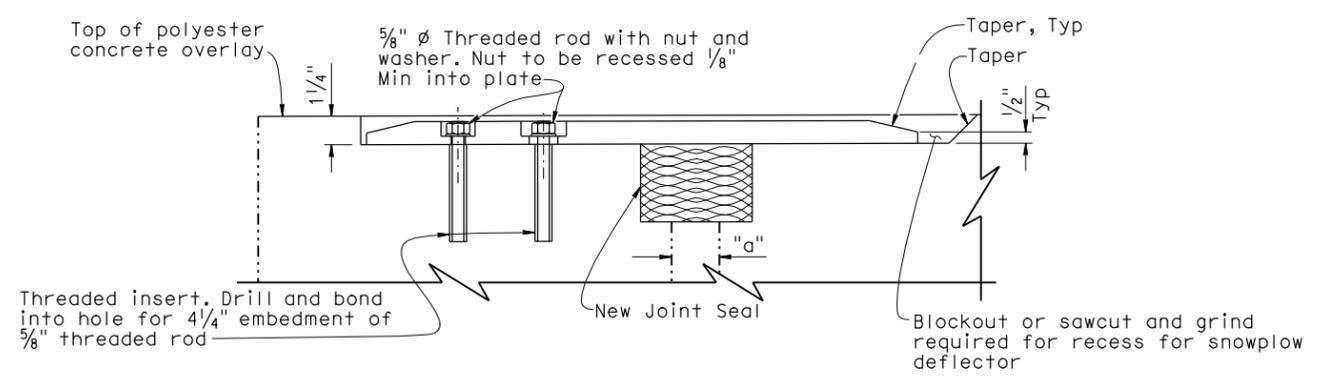
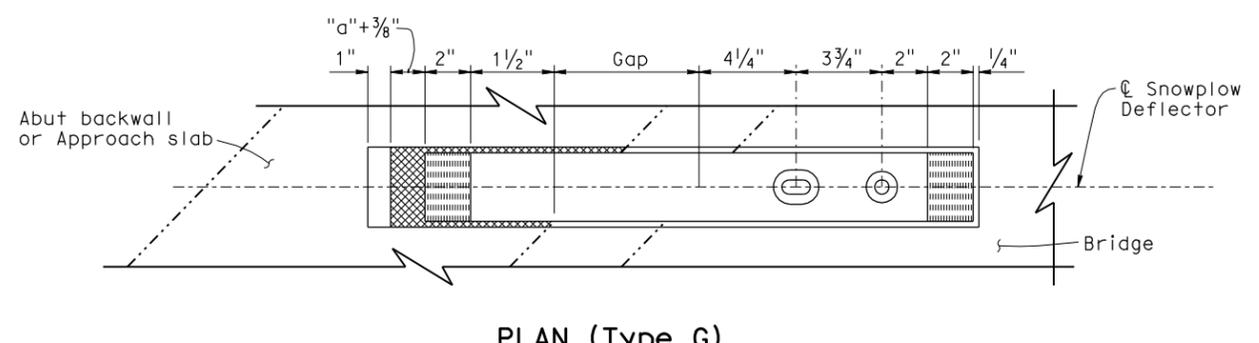
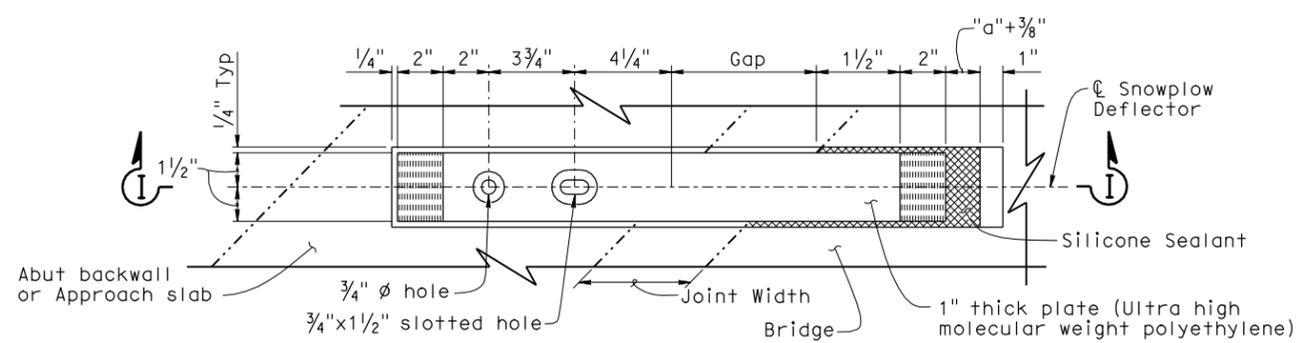
Arlene Frank 12-22-10
 REGISTERED CIVIL ENGINEER DATE
 2-01-11
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



NOTES: (APPLY TO THIS SHEET ONLY)

----- Indicates existing.

- Thread locking system to be used at all threaded rod and nut locations.



SNOWPLOW DEFLECTOR
3" = 1'-0"

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

BRIDGE NO.	BRIDGE NAME	LOCATION	GAP (in)
06-0068	Fall River	Abut 1	3.0
		Bent 3	3.0
		Bent 5	3.0
		Abut 7	3.0

DESIGN	BY A. Frank	CHECKED D. Floyd
DETAILS	BY N. Kelley	CHECKED D. Floyd
QUANTITIES	BY A. Frank	CHECKED D. Floyd

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

ROUTE 44,89,273 & 299 BRIDGES
MISCELLANEOUS DETAILS

USERNAME => Nks11ey DATE PLOTTED => 08-FEB-2011 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89, 273&299	Varies	17	18

Arlene Frank 12-22-10
 REGISTERED CIVIL ENGINEER DATE

2-01-11
 PLANS APPROVAL DATE

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DECK REPAIR TABLE					
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)					
BRIDGE NUMBER	BRIDGE NAME	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH DAMAGE (INCHES)	APPROXIMATE UNSOUND CONCRETE (CF)	RAPID SET PATCH (CF)
06-0182	Airport Road OC	1	3	17.0	17.0
06-0151	Clough Creek	1	3	5.0	5.0
06-0190	Deschutes Road UC	1	3	15.0	15.0
06-0152	Cow Creek	1	3	44.0	44.0
06-0084	Hat Creek	3	3	22.0	22.0
06-0086	Hat Creek	3	3	12.0	12.0
06-0087	Hat Creek	3	3	12.0	12.0
06-0205	Cayton Creek	1	3	4.0	4.0
06-0011	Oregon Gulch	2	3	39.0	39.0
06-0035	Redding OH	3	3	83.0	83.0
06-0068	Fall River	1	3	12.0	12.0

JOINT SEAL TABLE							
BRIDGE NUMBER	BRIDGE NAME	LOCATION	MINIMUM "MR" (in)	APPROXIMATE LENGTH (ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)	
06-0152	Cow Creek	Span 3	H	2	No	21±	
		Span 7	H	2	No	21±	
06-0035	Redding Overhead	Pier 3	EJ	1	No	18±	
		Pier 4	EJ	1	No	18±	
		Abut 8	BW	1	No	17±	
06-0068	Fall River	Abut 1	BW	1	No	20±	
		Bent 3	EJ	1	No	20±	
		Bent 5	EJ	1	No	20±	
		Abut 7	BW	1	No	20±	

LEGEND:

BW - Backwall
 EJ - Expansion Joint
 H - Hinge

NOTE:
 All joint seals to be Type B

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

DESIGN	BY A. Frank	CHECKED D. Floyd	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 44,89,273 & 299 BRIDGES JOINT SEAL DETAILS NO. 1
DETAILS	BY N. Kelley	CHECKED D. Floyd			Varies	
QUANTITIES	BY A. Frank	CHECKED D. Floyd			Various	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 02601 EA 2E3401	DISREGARD PRINTS BEARING EARLIER REVISION DATES
					REVISION DATES	SHEET 8 OF 9

FILE => 02_2e3401_hjsdet1.dgn

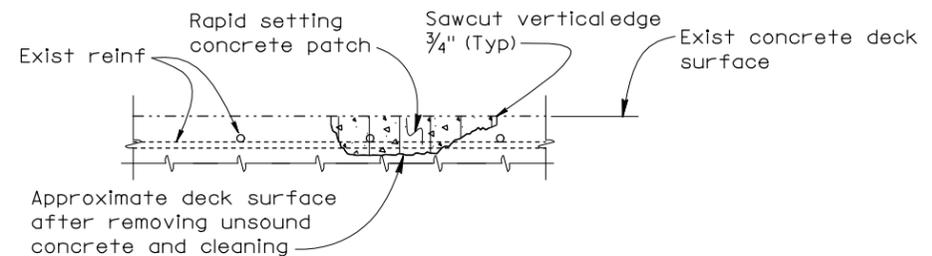
USERNAME => Nkell1ey DATE PLOTTED => 08-FEB-2011 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	SHA	44,89, 273&299	Varies	18	18

12-22-10
 REGISTERED CIVIL ENGINEER DATE
 2-01-11
 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.

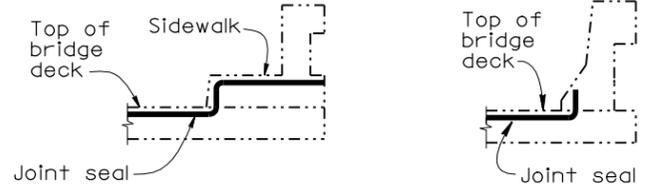
ARLENE FRANK
 REGISTERED PROFESSIONAL ENGINEER
 No. C 55562
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

- NOTES:
- Indicates existing.
 - [Hatched Box] Indicates limits of remove unsound concrete and patch with rapid setting concrete.
 - [Diagonal Line Box] Indicates limits of new polyester concrete.



DECK REPAIR DETAIL

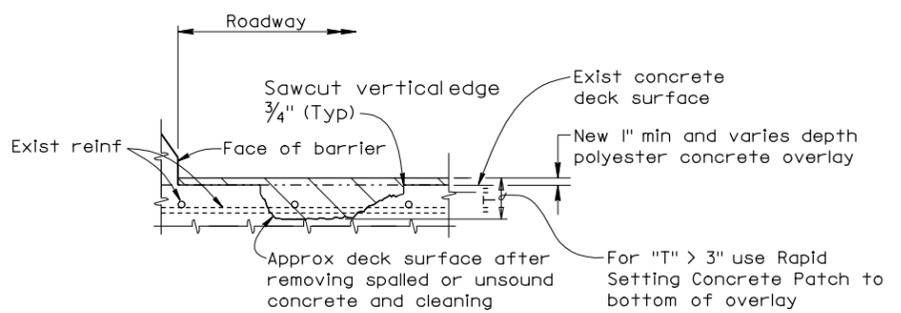
Note: Reinforcement may be encountered during deck concrete removal.



JOINT SEAL AT LOW SIDE OF DECK

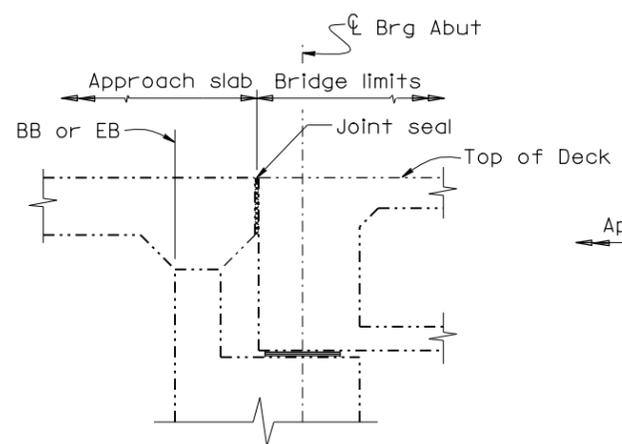
Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.

- 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 

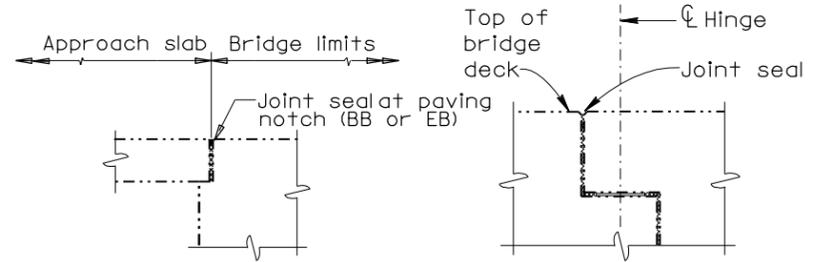


DECK REPAIR DETAIL-OVERLAY

Note: Reinforcement may be encountered during deck concrete removal.



BACK WALL ABUTMENT



DIAPHRAGM ABUTMENT

HINGE

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

DESIGN	BY A. Frank	CHECKED D. Floyd
DETAILS	BY N. Kelley	CHECKED D. Floyd
QUANTITIES	BY A. Frank	CHECKED D. Floyd

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies
POST MILE	Varies

ROUTE 44,89,273 & 299 BRIDGES
JOINT SEAL DETAILS NO. 2

USERNAME => Nks11ey DATE PLOTTED => 08-FEB-2011 TIME PLOTTED => 10:51