

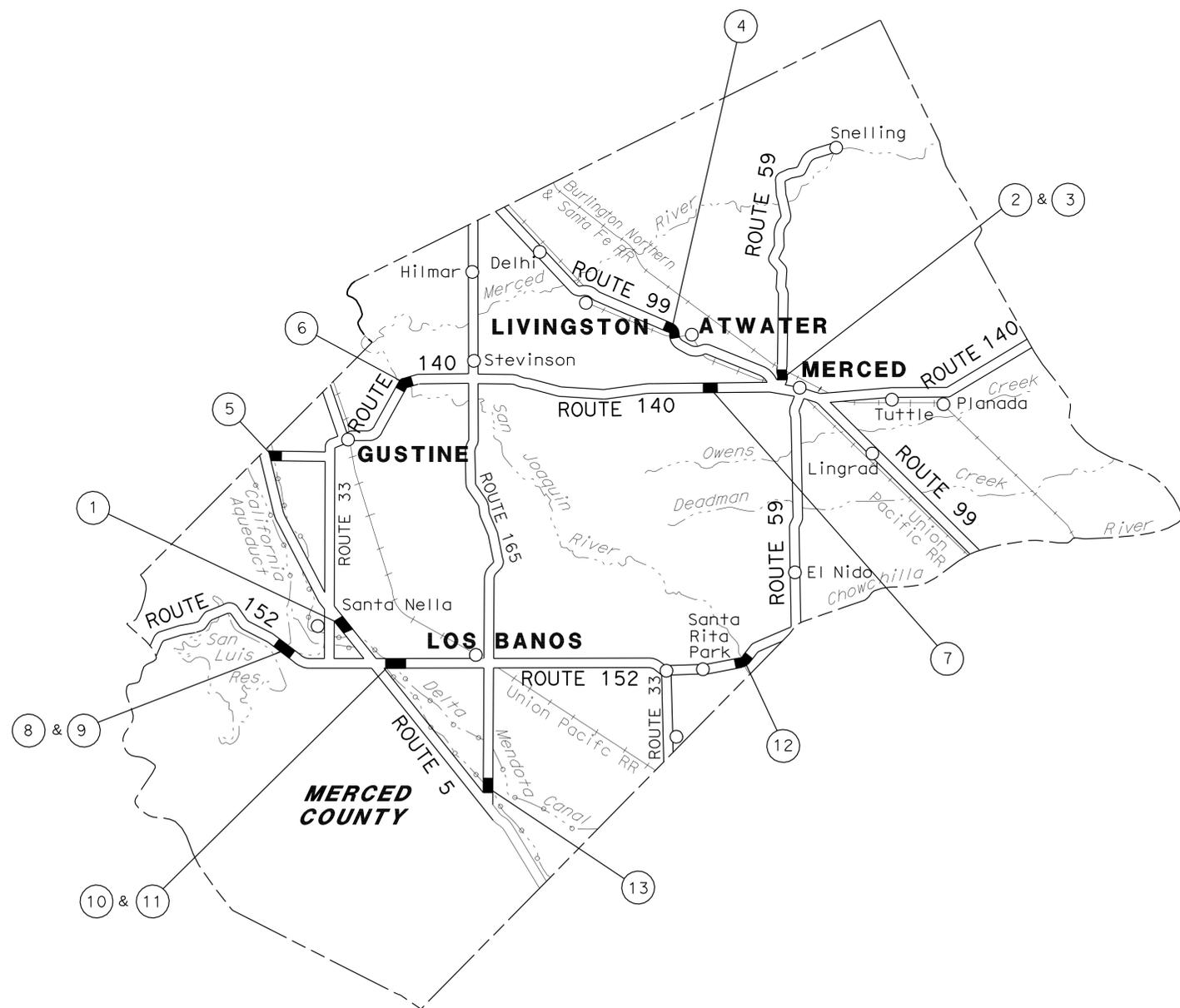
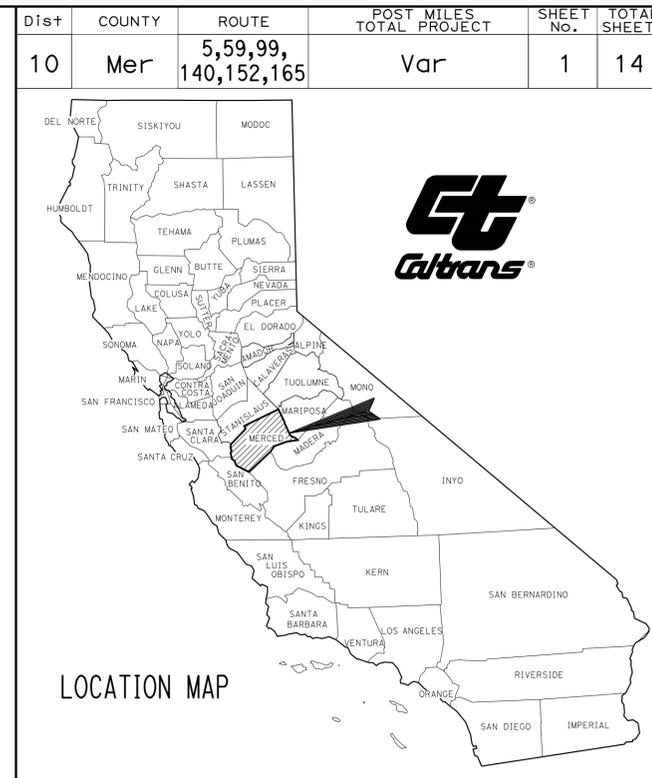
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-6	REVISED AND NEW STANDARD PLANS
STRUCTURE PLANS	
7-14	ROUTES 5, 59, 99, 140, 152 AND 165 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 MERCED COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION

Loc	ROUTE	PM	STRUCTURE NAME	BRIDGE No.
①	5	21.38	HENRY MILLER AVENUE OVERCROSSING	39-0166
②	59	15.23	BEAR CREEK	39-0009L
③	59	15.23	BEAR CREEK	39-0009R
④	99	23.46	WEST ATWATER OVERHEAD	39-0128L
⑤	140	0.01	ROUTE 140/5 SEPARATION	39-0182
⑥	140	11.32	NORTH BRANCH MUD SLOUGH	39-0091
⑦	140	31.60	BLACK RASCAL CREEK	39-0094
⑧	152	R10.05	SAN LUIS DAM FOREBAY	39-0145L
⑨	152	R10.05	SAN LUIS DAM FOREBAY	39-0145R
⑩	152	14.17	CALIFORNIA AQUEDUCT	39-0036L
⑪	152	14.17	CALIFORNIA AQUEDUCT	39-0036R
⑫	152	R37.16	SAN JOAQUIN RIVER (SANTA RITA)	39-0028L
⑬	165	L0.01	MERCY SPRINGS ROAD SEPARATION	39-0152

PROJECT MANAGER
SUBHASH JOHAR
 DESIGN ENGINEER
ALVIN MANGINDIN

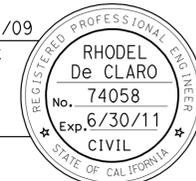
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Rhodel De Claro 12/1/09
 PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE

January 25, 2010
 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. 10-OT4204



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5,59,99,140,152,165	Var	2	14

Rhodel De Claro 12/1/09
 REGISTERED CIVIL ENGINEER DATE

1-25-10
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 RHODEL De CLARO
 No. 74058
 Exp. 6/30/11
 CIVIL
 STATE OF CALIFORNIA

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION No.	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN CODE	PANEL SIZE	No. OF SIGNS	No. OF POSTS AND SIZE	SIGN MESSAGE
①	5	21.38	HENRY MILLER AVENUE OVERCROSSING	39-0166	W20-1	36" x 36"	2	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	2	1 - 4" x 4"	END ROAD WORK
④	99	23.46	WEST ATWATER OVERHEAD	39-0128L	W20-1	48" x 48"	2	1 - 6" x 6"	ROAD WORK AHEAD
					G20-2	48" x 24"	2	1 - 4" x 6"	END ROAD WORK
⑤	140	0.01	ROUTE 140/5 SEPARATION	39-0182	W20-1	36" x 36"	2	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	2	1 - 4" x 4"	END ROAD WORK
⑥	140	11.32	NORTH BRANCH MUD SLOUGH	39-0091	W20-1	36" x 36"	2	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	2	1 - 4" x 4"	END ROAD WORK
⑦	140	31.60	BLACK RASCAL CREEK	39-0094	W20-1	36" x 36"	3	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	3	1 - 4" x 4"	END ROAD WORK
⑧	152	R10.05	SAN LUIS DAM FOREBAY	39-0145L	W20-1	48" x 48"	2	1 - 6" x 6"	ROAD WORK AHEAD
					G20-2	48" x 24"	2	1 - 4" x 6"	END ROAD WORK
⑨	152	R10.05	SAN LUIS DAM FOREBAY	39-0145R	W20-1	48" x 48"	2	1 - 6" x 6"	ROAD WORK AHEAD
					G20-2	48" x 24"	2	1 - 4" x 6"	END ROAD WORK
⑬	165	L0.01	MERCY SPRINGS ROAD SEPARATION	39-0152	W20-1	36" x 36"	3	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	3	1 - 4" x 4"	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER

PAVEMENT DELINEATION ITEMS

LOCATION	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)		
			YELLOW		WHITE			TYPE D	TYPE H	TYPE G
			DETAIL 22	DETAIL 25	DETAIL 12	DETAIL 27B				
	LF	LF	LF				EA	EA		
①	536	536	536			536	24	24		
④	460	920		460	460	460	20		10	10
⑤	440	440	440			440	20	20		
⑥	226	226	226			226	10	10		
⑦	340	340	340			340	16	16		
⑧				560	560	560	24		12	12
⑨				560	560	560	24		12	12
⑬	482	482	482			482	22	22		
SUBTOTAL	2484	2944	2024	1580	1580	3604	160	92	34	34
TOTAL	2484	2944	8788				160	160		

CONSTRUCTION AREA SIGNS AND SUMMARY OF QUANTITIES

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN
 RHODEL DE CLARO
 JOSE A. ALICEA II
 REVISOR BY DATE
 RD 12/1/09
 CALCULATED-DESIGNED BY CHECKED BY

LAST REVISION | DATE PLOTTED => 26-JAN-2010
 00-00-00 TIME PLOTTED => 14:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5,59,99, 140,152,165	Var	3	14

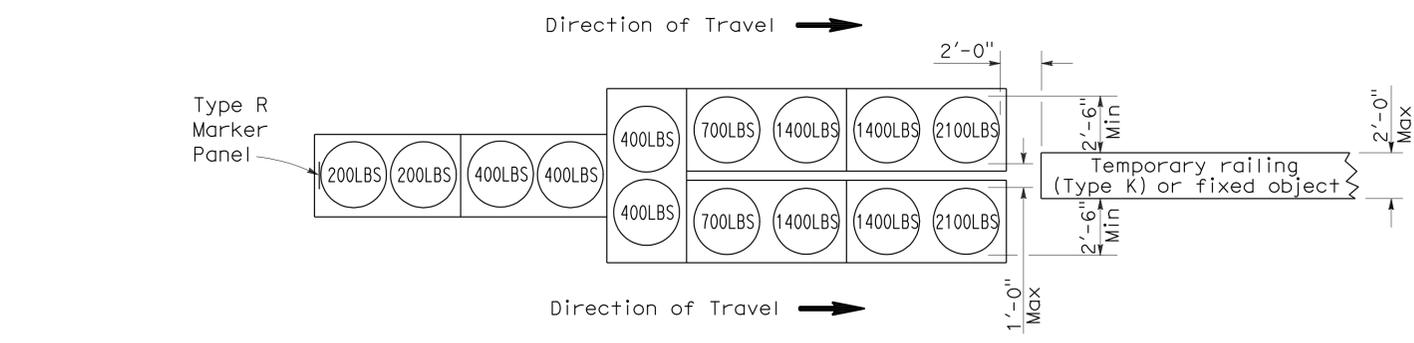
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

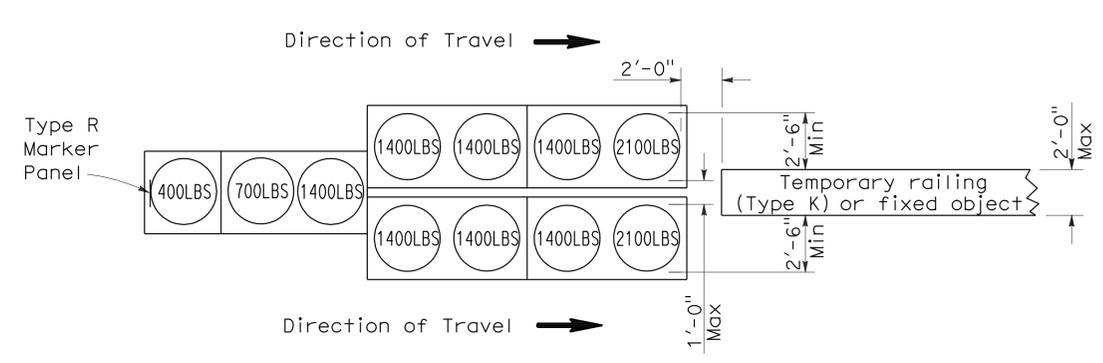
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-25-10



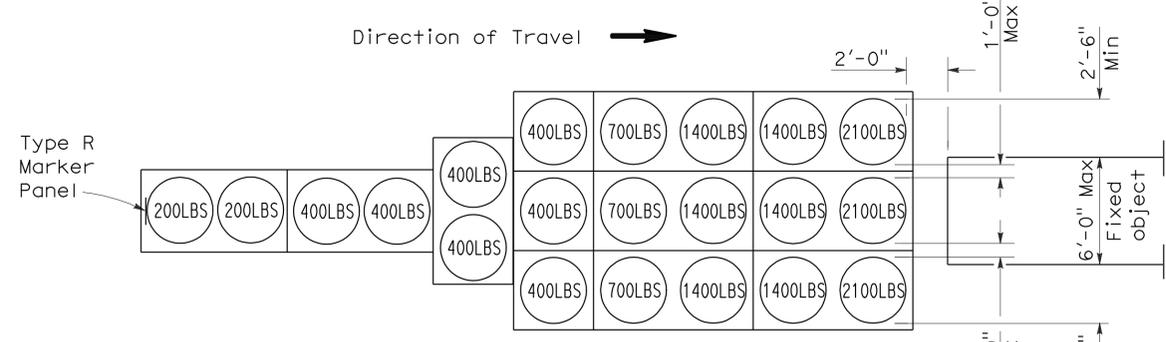
ARRAY 'TU14'

Approach speed 45 mph or more



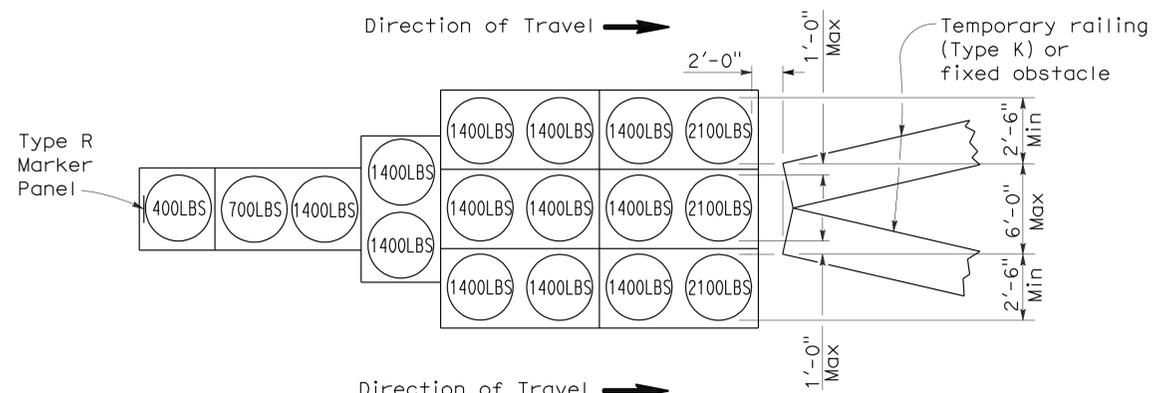
ARRAY 'TU11'

Approach speed less than 45 mph



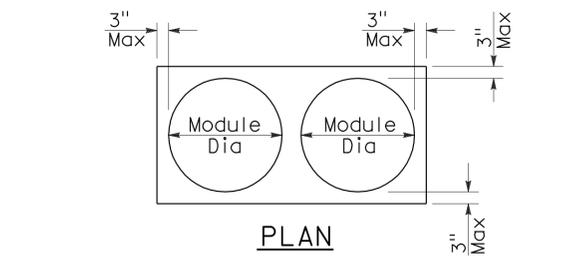
ARRAY 'TU21'

Approach speed 45 mph or more

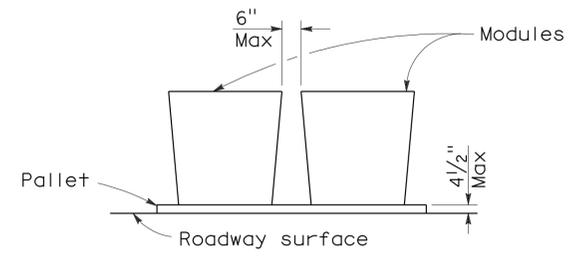


ARRAY 'TU17'

Approach speed less than 45 mph



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5,59,99, 140,152,165	Var	4	14

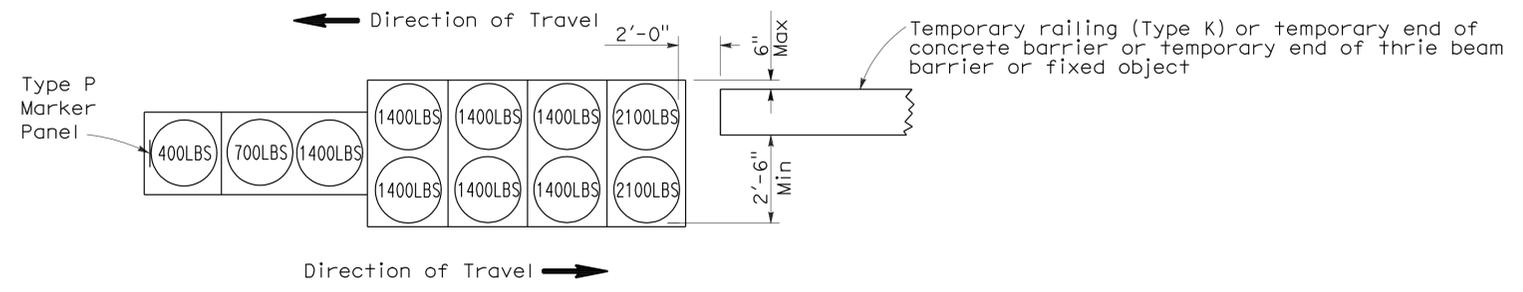
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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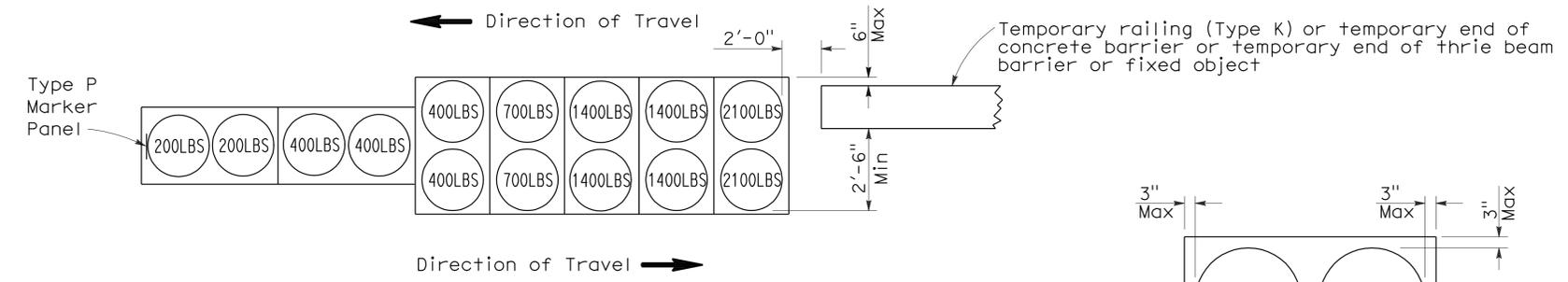
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-25-10



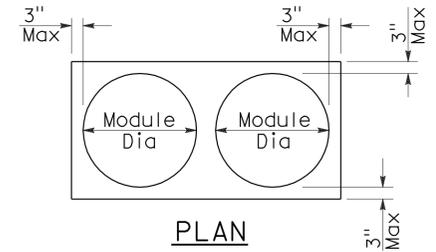
ARRAY 'TB11'

Approach speed less than 45 mph

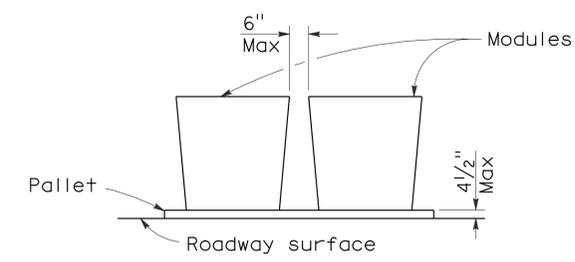


ARRAY 'TB14'

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
10	Mer	5,59,99, 140,152,165	Var	5	14

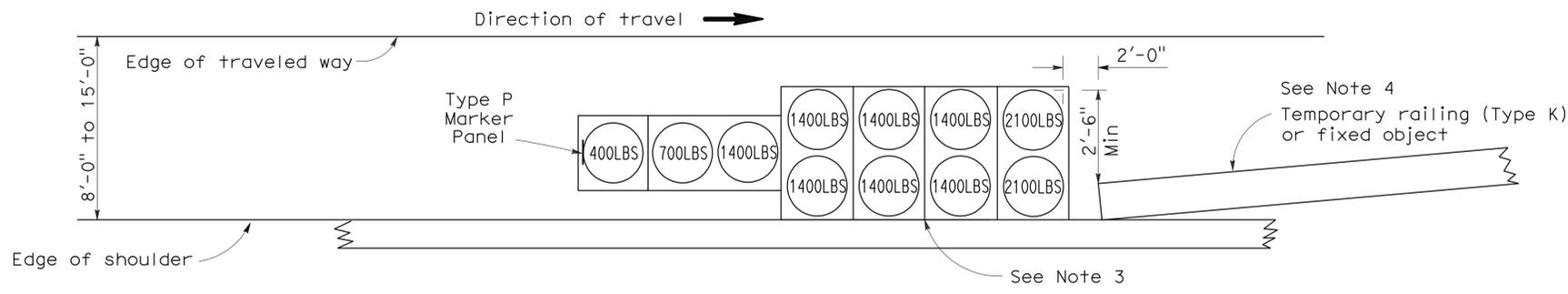
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

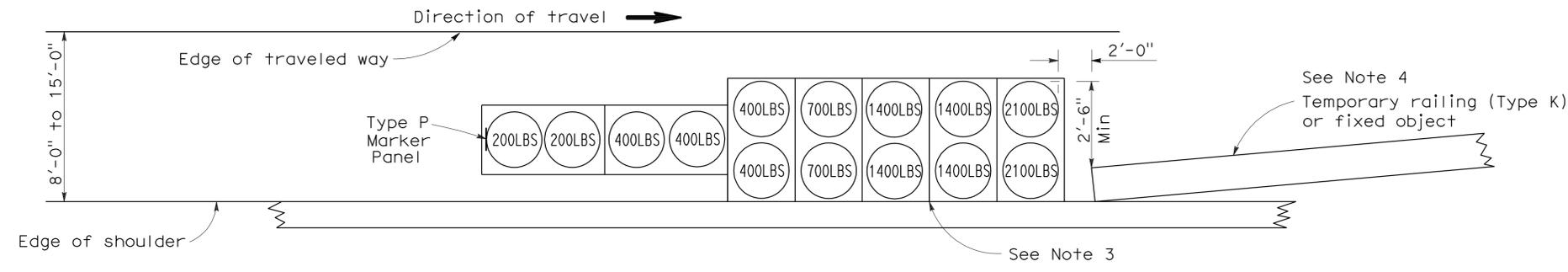
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

To accompany plans dated 1-25-10



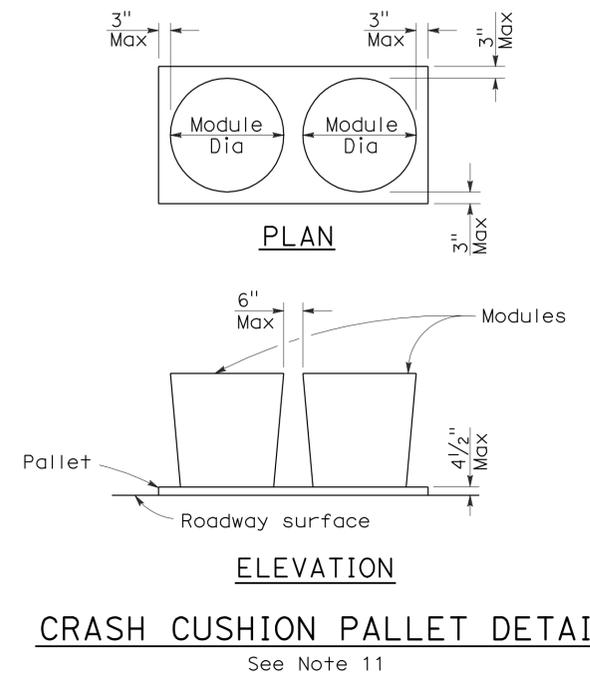
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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)**

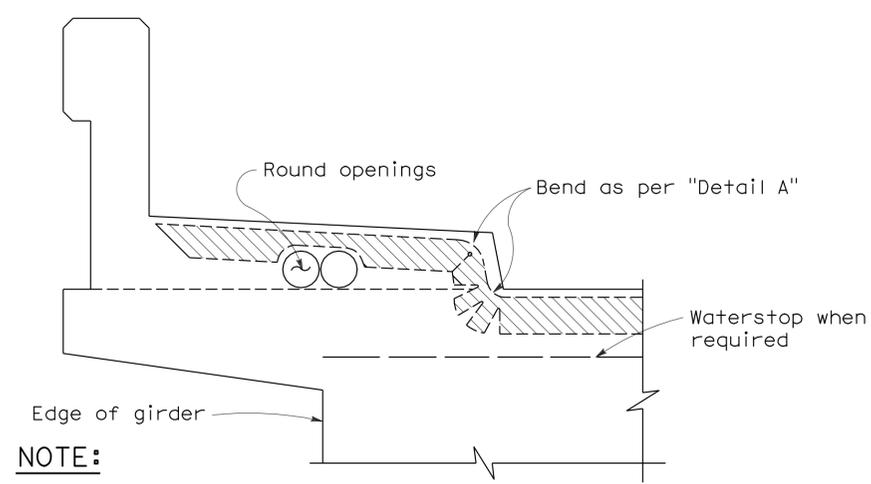
NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

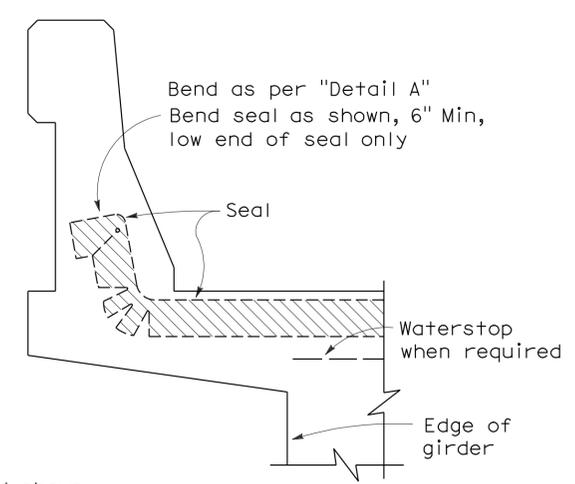
To accompany plans dated 1-25-10

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

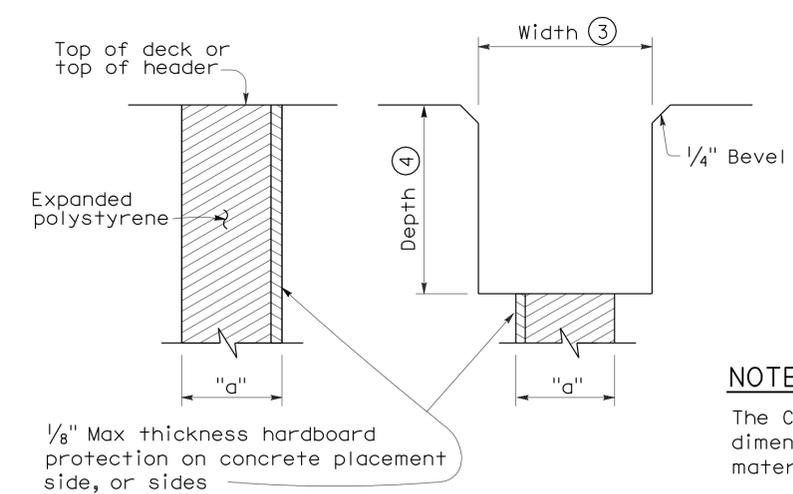


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



CONCRETE BARRIER

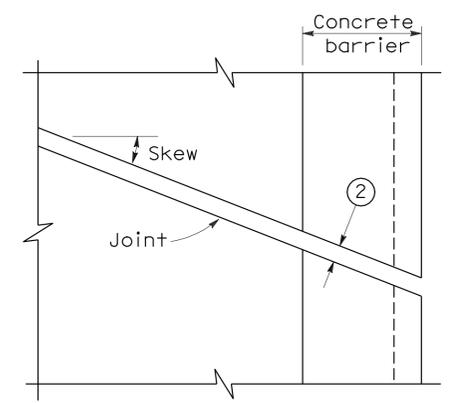


FORMING DETAIL SAWCUT DETAIL

- 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.

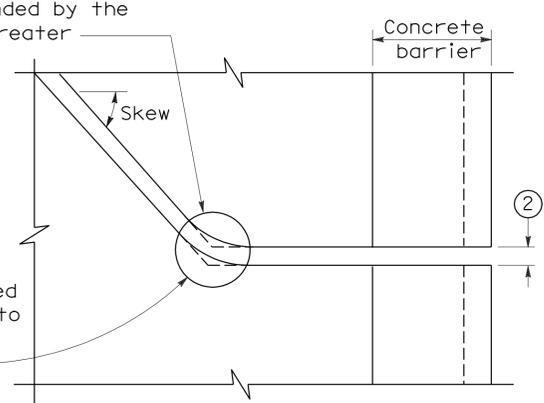
JOINT SEALS DETAILS

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater

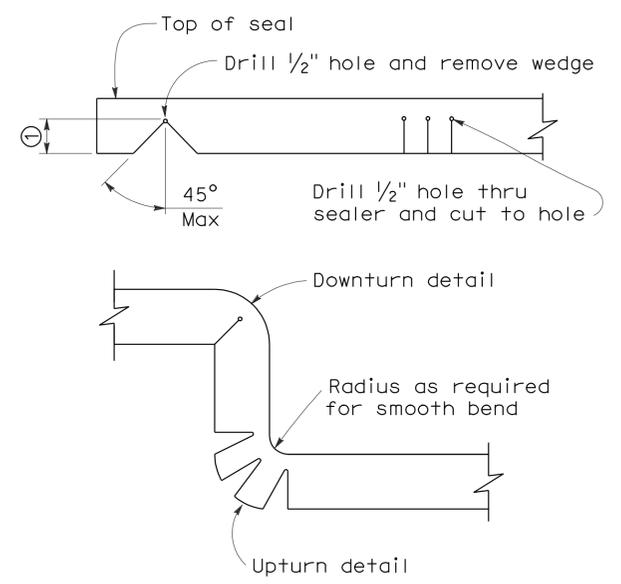


PLAN OF JOINT (SKEW $\leq 20^\circ$)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



PLAN OF JOINT (SKEW $> 20^\circ$)

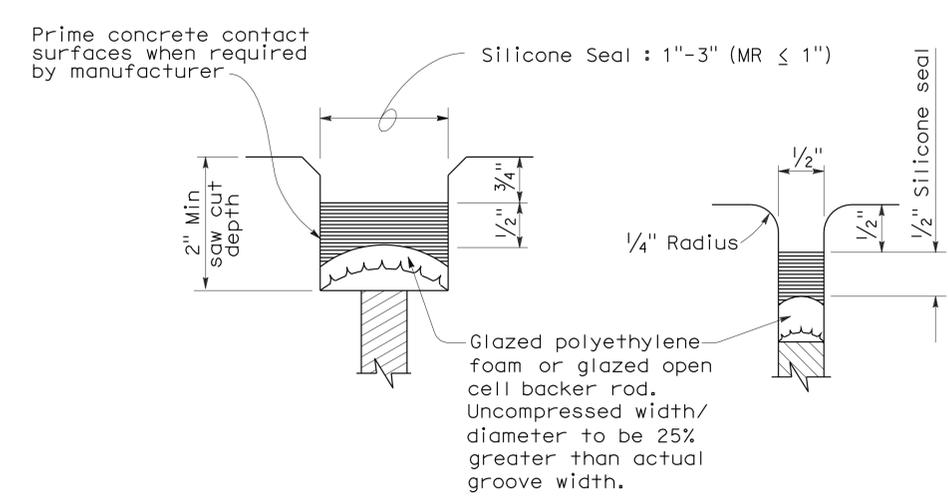


DETAIL A

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

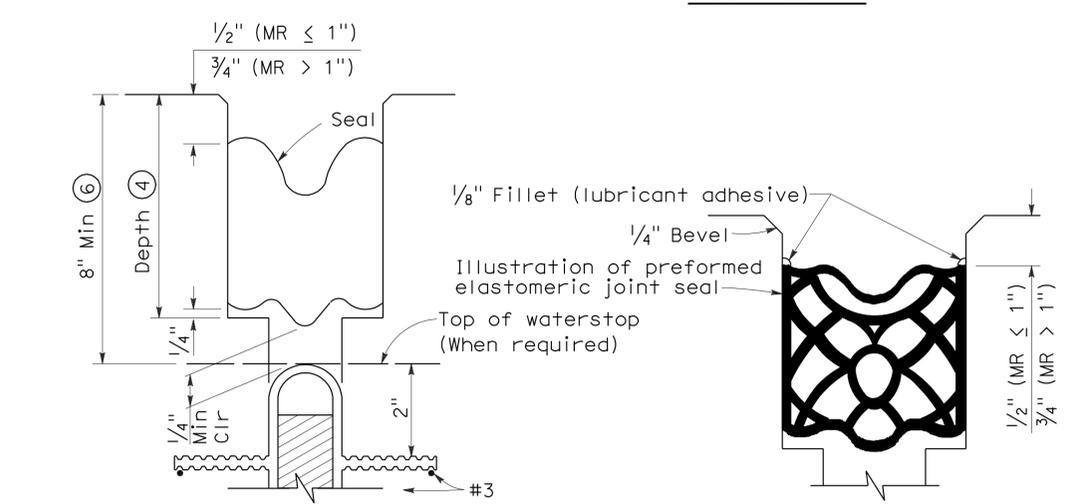


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only

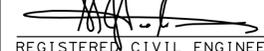
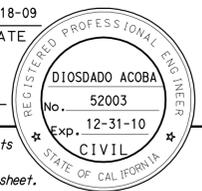


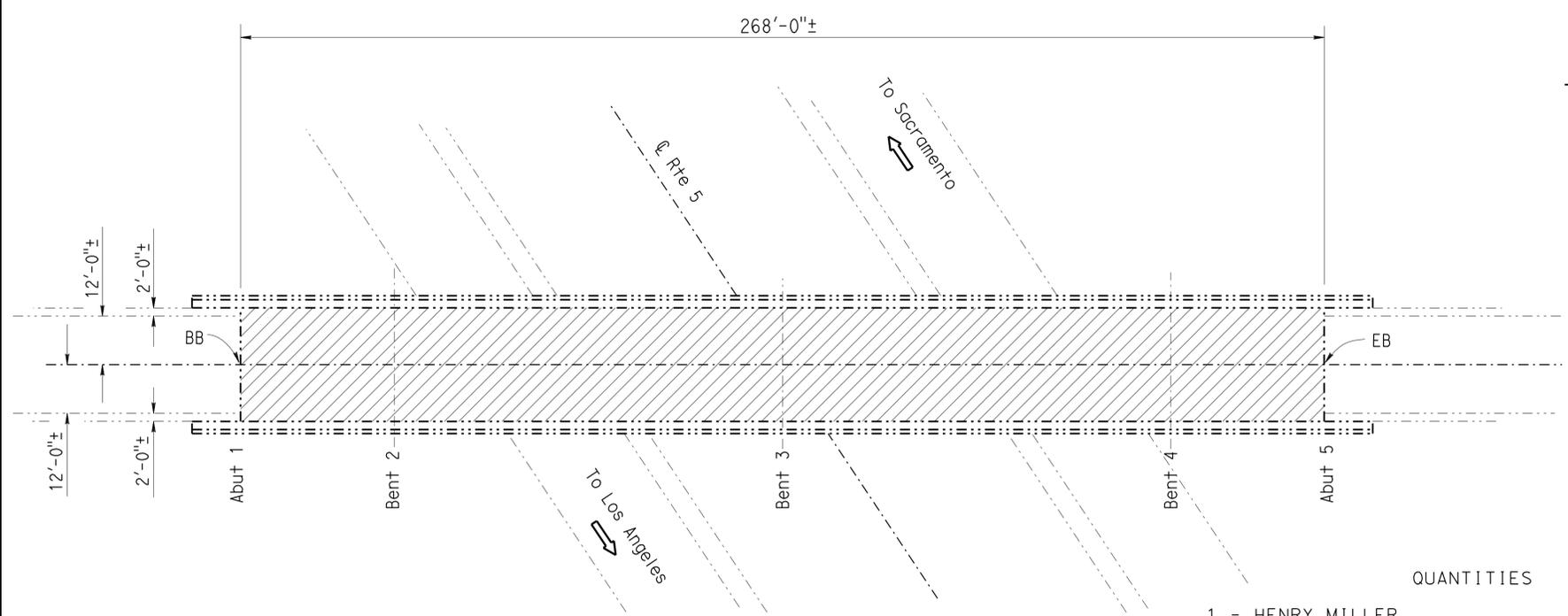
TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	7	14
 REGISTERED CIVIL ENGINEER			DATE	11-18-09	
PLANS APPROVAL DATE 1-25-10					
<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 ALL SHEETS)

----- Indicates existing.

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

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.

 Indicates location of remove existing joint seal and place new joint seal.

For "Section A-A", see "JOINT SEAL DETAILS NO.2" sheet.

HENRY MILLER AVENUE OVERCROSSING

Br No. 39-0166, Rte 5, PM 21.38
1" = 20'

QUANTITIES

1 - HENRY MILLER BRIDGE NO 39-0166

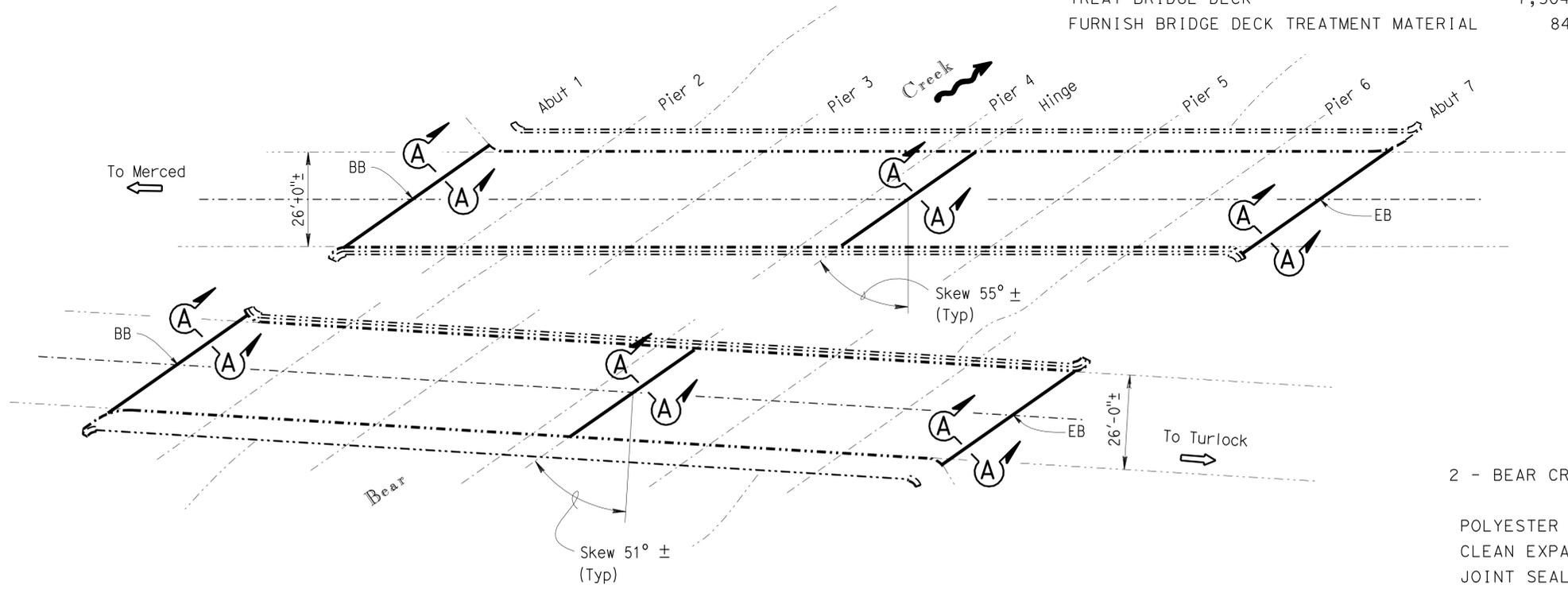
REMOVE UNSOUND CONCRETE	19	CF
CLEAN BRIDGE DECK	7,504	SOFT
RAPID SETTING CONCRETE (PATCH)	19	CF
TREAT BRIDGE DECK	7,504	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	84	GAL

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")

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	JOINT SEAL DETAILS NO. 1
7	JOINT SEAL DETAILS NO. 2
8	JOINT SEAL DETAILS NO. 3



BEAR CREEK

Br No. 39-0009L/R, Rte 59, PM 15.23
1" = 20'

QUANTITIES

2 - BEAR CREEK BRIDGE NO 39-0009L/R

POLYESTER CONCRETE EXPANSION DAM	44	CF
CLEAN EXPANSION JOINT	265	LF
JOINT SEAL (MR 1/2")	87	LF
JOINT SEAL (MR 1")	84	LF
JOINT SEAL (MR 1 1/2")	92	LF


DESIGN ENGINEER
11-18-10

DESIGN	BY D. Acoba	CHECKED P. Kang
DETAILS	BY David Kish	CHECKED P. Kang
QUANTITIES	BY D. Acoba	CHECKED P. Kang

LAYOUT	BY David Kish	CHECKED P. Kang
SPECIFICATIONS	BY Aiman Malak	CHECKED Aiman Malak

PLANS AND SPECIFICATIONS COMPARED
Aiman Malak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS

ROUTES 5, 59, 99, 140 152 & 165 BRIDGES
GENERAL PLAN NO. 1

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

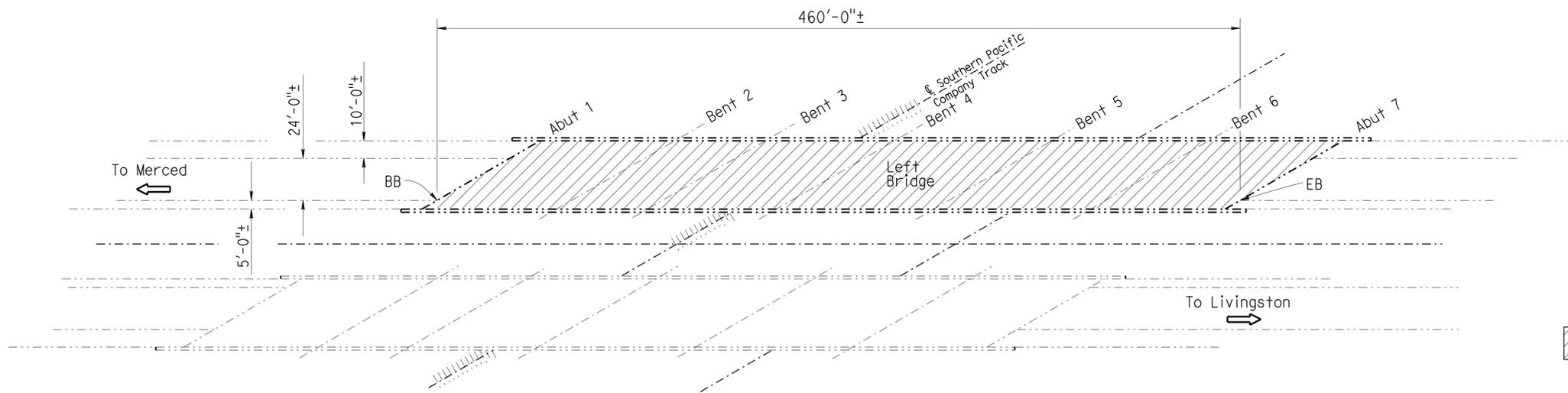
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 10604
EA OT4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	6-02-09	9-09-09							
SHEET	1								
OF	8								

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	8	14
REGISTERED CIVIL ENGINEER			DATE	11-18-09	
PLANS APPROVAL DATE			1-25-10		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 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.					



NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.

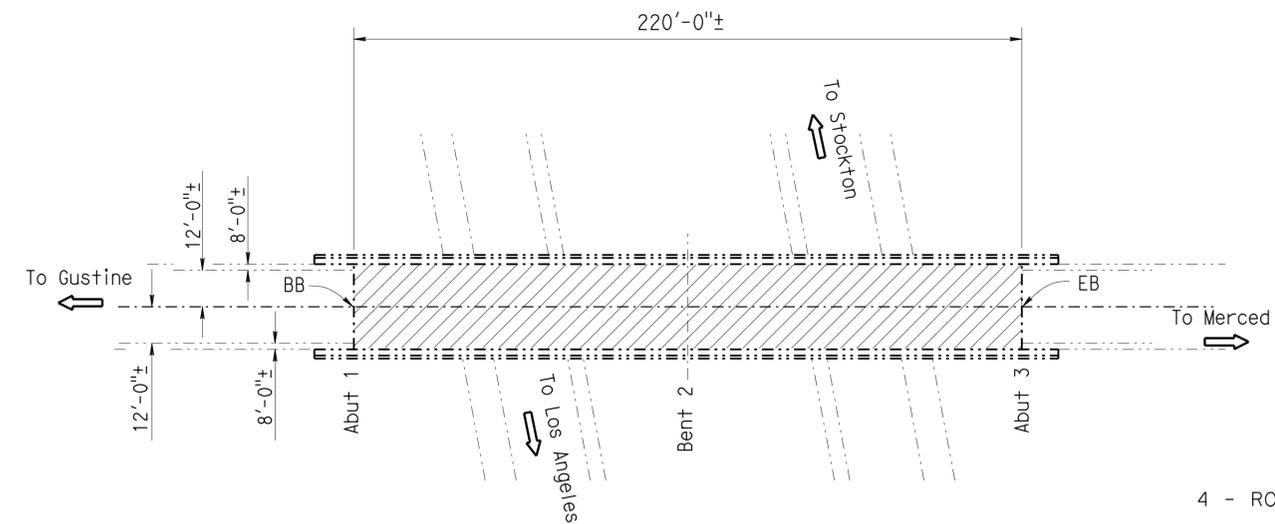
WEST ATWATER OVERHEAD

Br No. 39-0128L, Rte 99, PM 23.46
1" = 40'



QUANTITIES

3 - WEST ATWATER OH	BRIDGE NO 39-0128L
REMOVE UNSOUND CONCRETE	45 CF
CLEAN BRIDGE DECK	17,940 SQFT
RAPID SETTING CONCRETE (PATCH)	45 CF
TREAT BRIDGE DECK	17,940 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	200 GAL
PUBLIC SAFETY PLAN	LUMP SUM



ROUTE 140/5 SEPARATION

Br No. 39-0182, Rte 140, PM 0.01
1" = 30'



QUANTITIES

4 - ROUTE 140/5 SEPARATION	BRIDGE NO 39-0182
REMOVE UNSOUND CONCRETE	44 CF
CLEAN BRIDGE DECK	8,800 SQFT
RAPID SETTING CONCRETE (PATCH)	44 CF
TREAT BRIDGE DECK	8,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	98 GAL

Matthew W. Lee
DESIGN ENGINEER

DESIGN	BY D. Acoba	CHECKED P. Kang
DETAILS	BY David Kish	CHECKED P. Kang
QUANTITIES	BY D. Acoba	CHECKED P. Kang

LAYOUT	BY David Kish	CHECKED P. Kang
SPECIFICATIONS	BY Aiman Malak	CHECKED Aiman Malak

PLANS AND SPECIFICATIONS COMPARED
Aiman Malak

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 5, 59, 99, 140 152 & 165 BRIDGES
GENERAL PLAN NO. 2

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

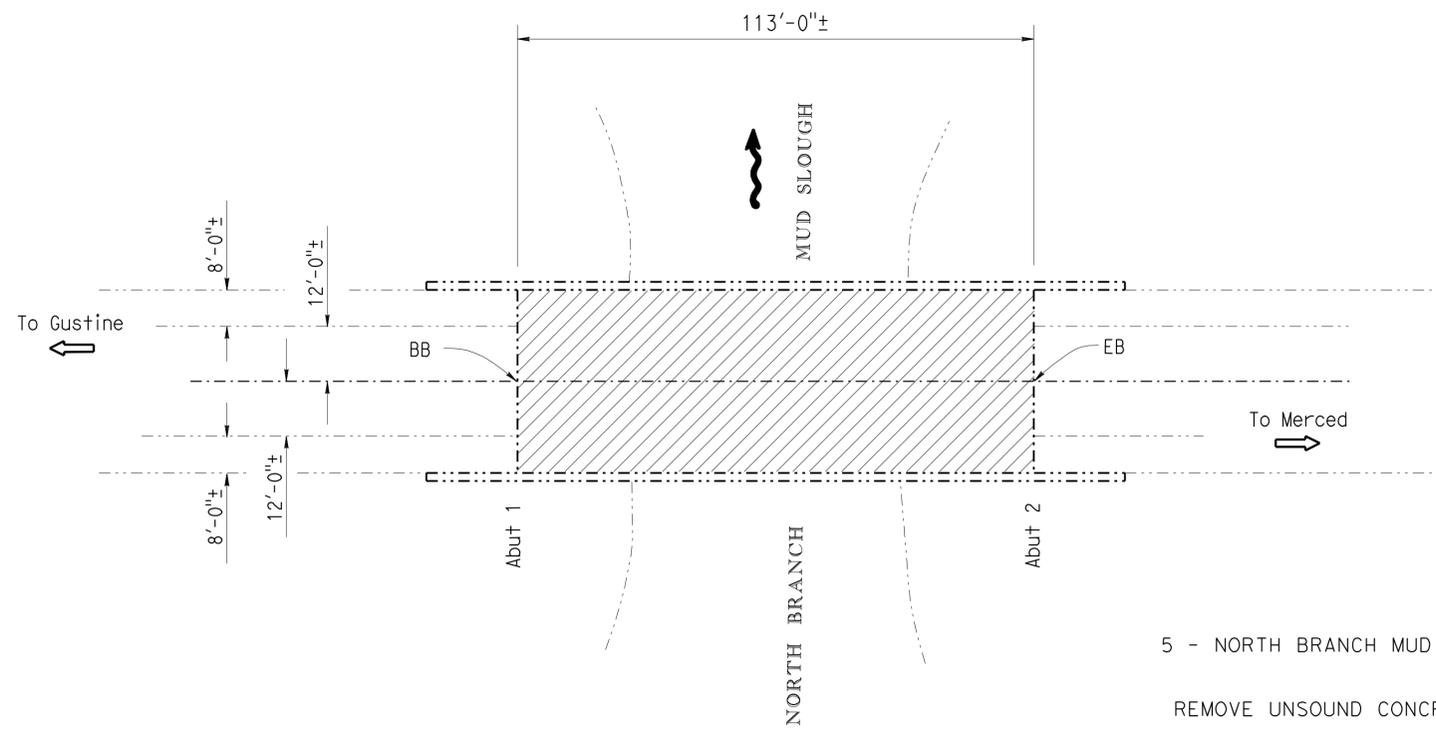
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 10604
EA 0T4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET 2	OF 8
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	9	14
REGISTERED CIVIL ENGINEER			DATE	11-18-09	
PLANS APPROVAL DATE			1-25-10		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No. 52003 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					



NORTH BRANCH MUD SLOUGH

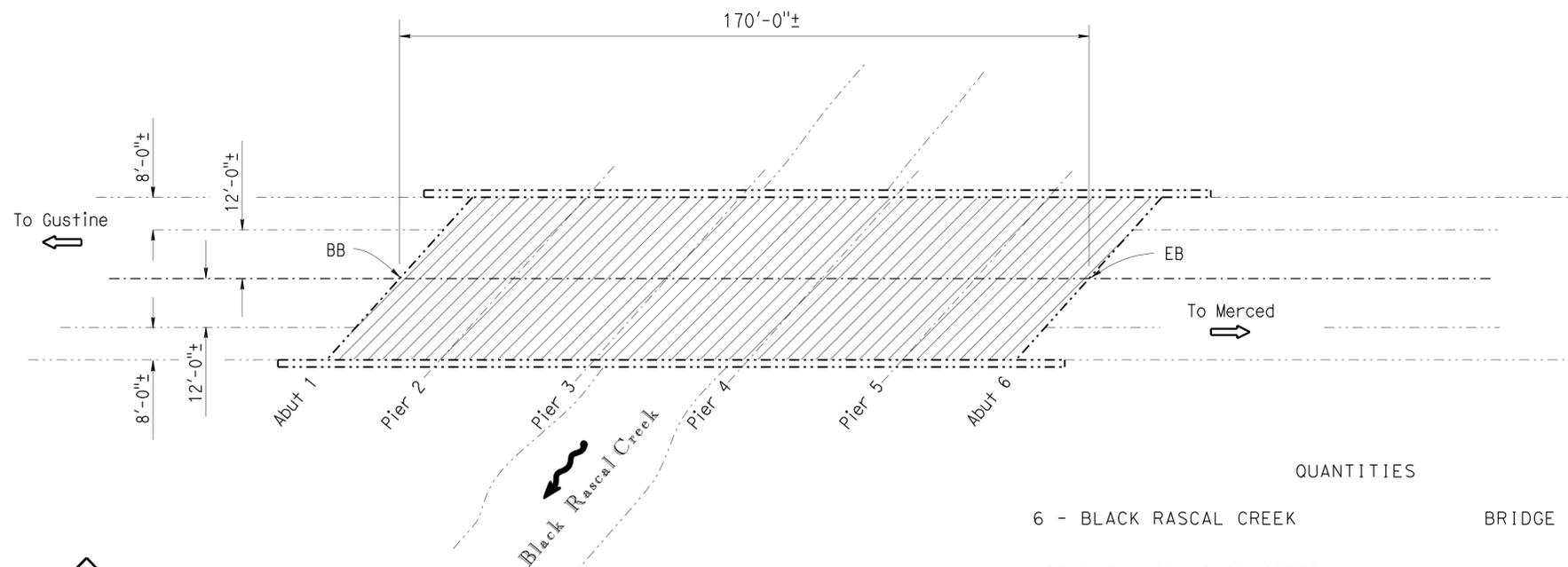
Br No. 39-0091, Rte 140, PM 11.32
1" = 20'

QUANTITIES

5 - NORTH BRANCH MUD SLOUGH	BRIDGE NO 39-0091
REMOVE UNSOUND CONCRETE	11 CF
CLEAN BRIDGE DECK	4,520 SQFT
RAPID SETTING CONCRETE (PATCH)	11 CF
TREAT BRIDGE DECK	4,520 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	50 GAL

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.



BLACK RASCAL CREEK

Br No. 39-0094, Rte 140, PM 31.60
1" = 20'

QUANTITIES

6 - BLACK RASCAL CREEK	BRIDGE NO 39-0094
REMOVE UNSOUND CONCRETE	17 CF
CLEAN BRIDGE DECK	6,800 SQFT
RAPID SETTING CONCRETE (PATCH)	17 CF
TREAT BRIDGE DECK	6,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	76 GAL

Matthew Acoba
DESIGN ENGINEER

DESIGN	BY D. Acoba	CHECKED P. Kang	LAYOUT	BY David Kish	CHECKED P. Kang
DETAILS	BY David Kish	CHECKED P. Kang	SPECIFICATIONS	BY Aiman Malak	CHECKED Aiman Malak
QUANTITIES	BY D. Acoba	CHECKED P. Kang			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 5, 59, 99, 140 152 & 165 BRIDGES
GENERAL PLAN NO. 3

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

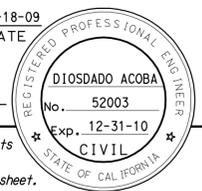
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

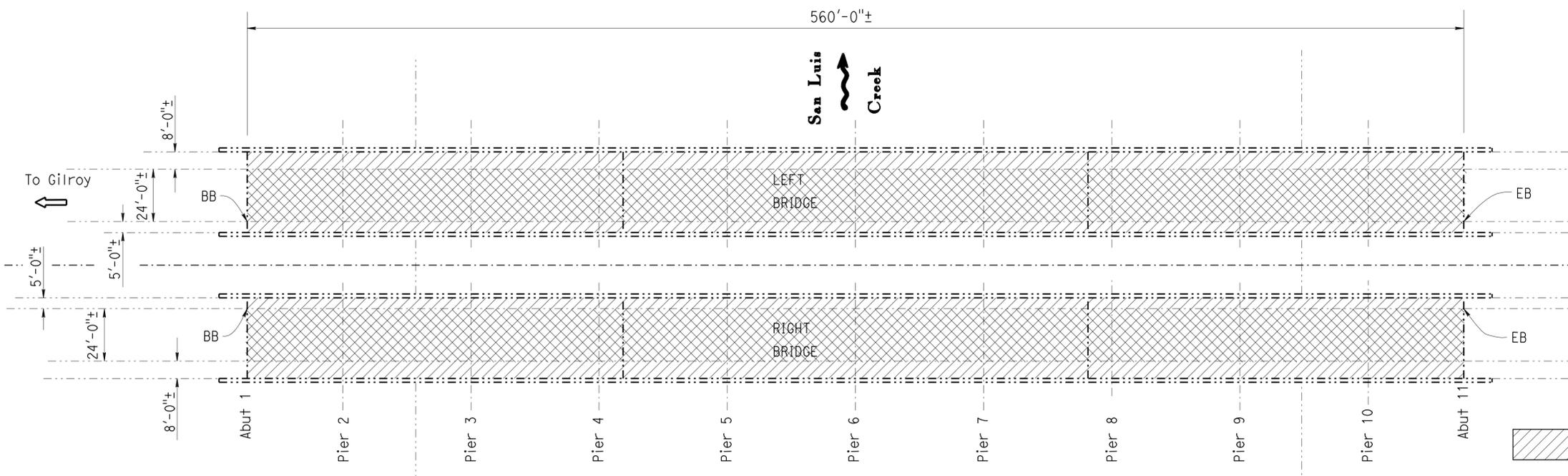
CU 10604
EA 0T4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

6-02-09	9-09-09								
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SHEET 3 OF 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	10	14
 REGISTERED CIVIL ENGINEER			DATE	11-18-09	
PLANS APPROVAL DATE 1-25-10					
<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>					



QUANTITIES

7 - SAN LUIS DAM FOREBAY BRIDGE NO 39-0145L/R

REMOVE CHIP SEAL OVERLAY	26,880	SQFT
REMOVE UNSOUND CONCRETE	104	CF
CLEAN BRIDGE DECK	41,440	SQFT
RAPID SETTING CONCRETE (PATCH)	104	CF
TREAT BRIDGE DECK	41,440	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	462	GAL

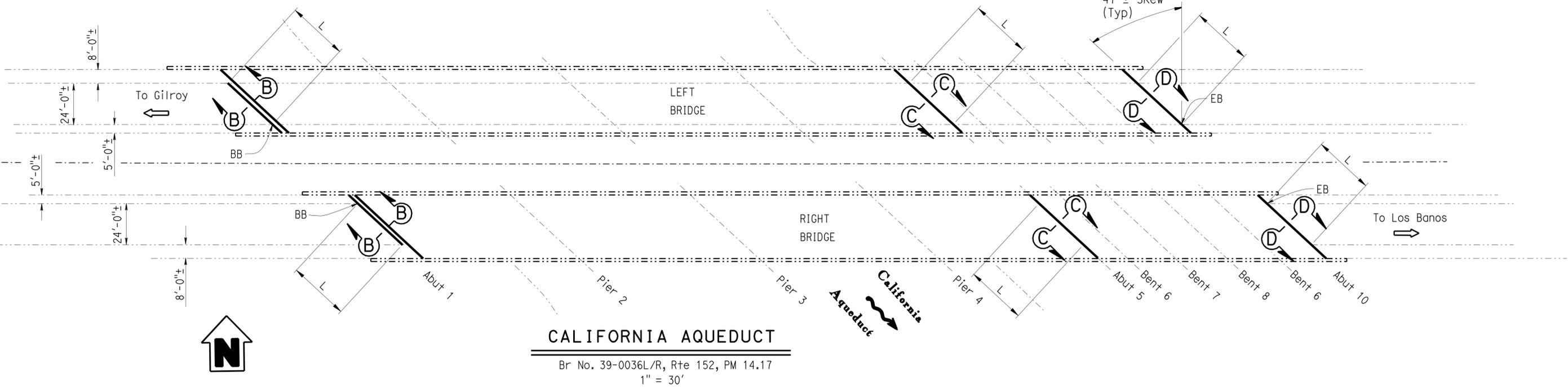
SAN LUIS DAM FOREBAY
 Br No. 39-0145L/R, Rte 152, PM R10.05
 1" = 30'

QUANTITIES

8 - CALIFORNIA AQUEDUCT BRIDGE NO 39-0036L/R

BRIDGE REMOVAL (PORTION)	15	CY
STRUCTURAL CONCRETE, BRIDGE	15	CY
CLEAN EXPANSION JOINT	130	LF
JOINT SEAL (MR 1/2")	88	LF
JOINT SEAL (MR 1")	110	LF
JOINT SEAL (MR 1 1/2")	110	LF
JOINT SEAL (MR 2")	110	LF
BAR REINFORCING STEEL (BRIDGE)	1,183	LB

- NOTES: (APPLY TO THIS SHEET ONLY)**
-  Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
 -  Indicates limits of remove 1/2"± depth chip seal.
 -  Indicates location of remove existing joint seal and place new joint seal.
 - L** Indicates limits of remove concrete and place new concrete.
- For "Section B-B" see "JOINT SEAL DETAILS NO. 2" sheet. For "Section C-C" and "Section D-D" see "JOINT SEAL DETAILS NO. 3" sheet.



CALIFORNIA AQUEDUCT
 Br No. 39-0036L/R, Rte 152, PM 14.17
 1" = 30'


 DESIGN ENGINEER

DESIGN	BY D. Acoba	CHECKED P. Kang	LAYOUT	BY David Kish	CHECKED P. Kang
DETAILS	BY David Kish	CHECKED P. Kang	SPECIFICATIONS	BY Aiman Malak	PLANS AND SPECIFICATIONS COMPARED
QUANTITIES	BY D. Acoba	CHECKED P. Kang		Aiman Malak	

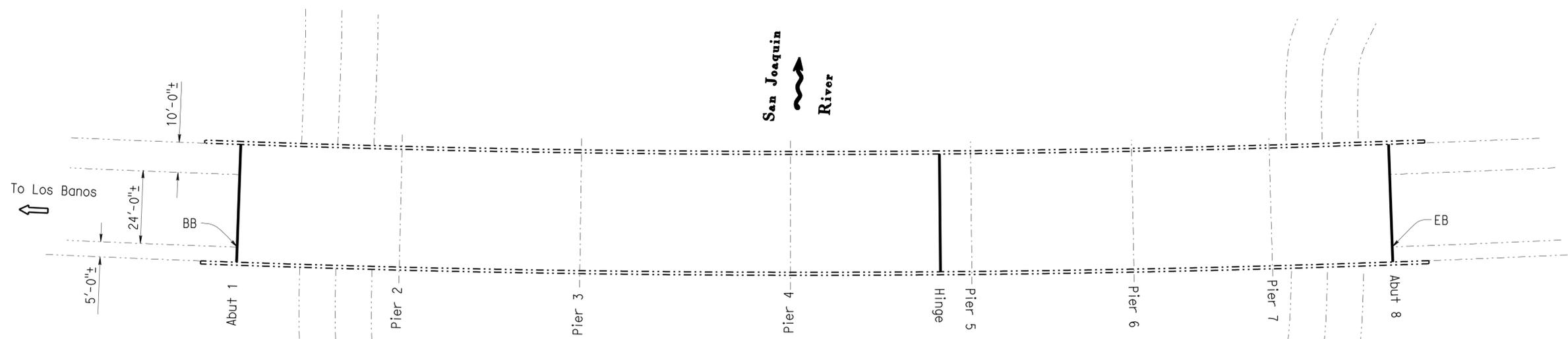
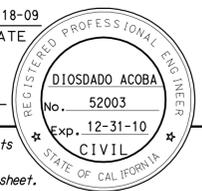
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS
ROUTES 5, 59, 99, 140 152 & 165 BRIDGES
GENERAL PLAN NO. 4

USERNAME => H11engrad DATE PLOTTED => 26-JAN-2010 TIME PLOTTED => 14:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	11	14
 REGISTERED CIVIL ENGINEER			11-18-09	DATE	
1-25-10 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.					



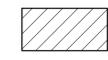
SAN JOAQUIN RIVER (SANTA RITA)

Br No. 39-0028L, Rte 152, PM R37.16
SCALE: 1" = 20'

QUANTITIES

9 - SAN JOAQUIN RIVER(SANTA RITA)	BRIDGE No. 39-0028L
CLEAN EXPANSION JOINT	119 LF
JOINT SEAL (MR 1")	40 LF
JOINT SEAL (MR 1 1/2")	40 LF
JOINT SEAL (MR 2")	40 LF

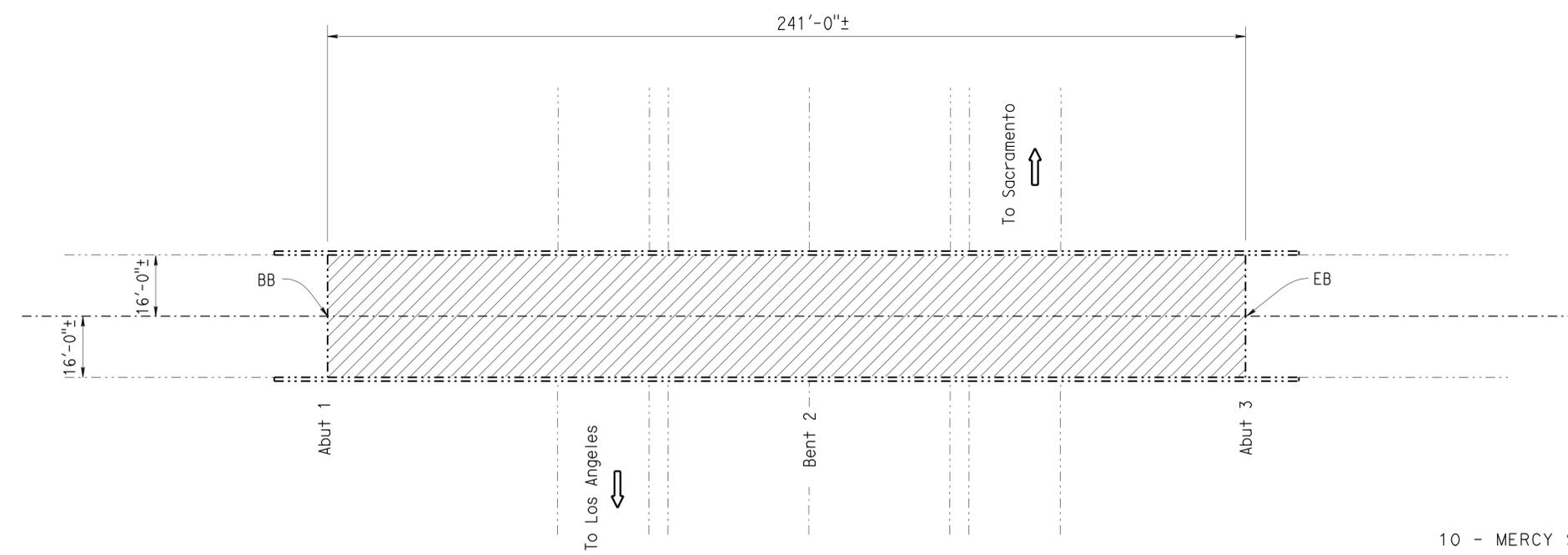
NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.



Indicates location of remove existing joint seal and place new joint seal.



MERCY SPRINGS ROAD SEPARATION

Br No. 39-0152, Rte 165, PM L0.01
SCALE: 1" = 20'

QUANTITIES

10 - MERCY SPRING ROAD SEPARATION	BRIDGE No. 39-0152
REMOVE UNSOUND CONCRETE	19 CF
CLEAN BRIDGE DECK	7,712 SQFT
RAPID SETTING CONCRETE (PATCH)	19 CF
TREAT BRIDGE DECK	7,712 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	86 GAL
PUBLIC SAFETY PLAN	LUMP SUM


DESIGN ENGINEER

DESIGN	BY D. Acoba	CHECKED P. Kang	LAYOUT	BY David Kish	CHECKED P. Kang
DETAILS	BY David Kish	CHECKED P. Kang	SPECIFICATIONS	BY Aiman Malak	PLANS AND SPECIFICATIONS COMPARED Aiman Malak
QUANTITIES	BY D. Acoba	CHECKED P. Kang			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS
GENERAL PLAN NO. 5

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 10604
EA 0T4201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

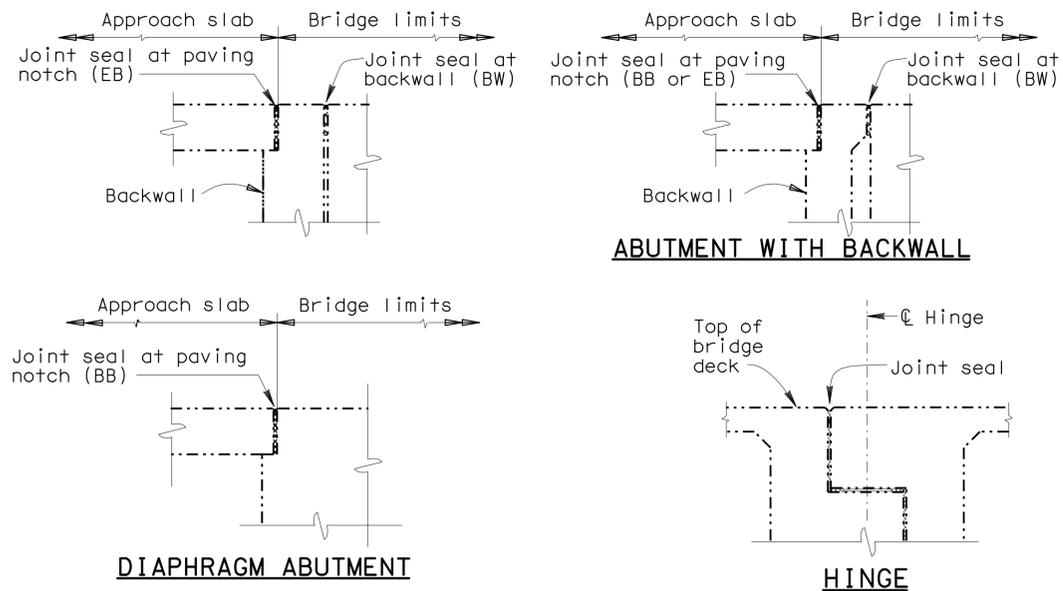
REVISION DATES	SHEET	OF
5-02-09 9-09-09	5	8

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
BEAR CREEK	39-0009L	Abut 1	BB	1 1/2	46.2	NO	12
		Span 4 near Pier 4	H	1 1/2	46.2	YES	6
		Abut 7	EB	1/2	46.2	NO	12
BEAR CREEK	39-0009R	Abut 1	BB	1	42.1	NO	12
		Span 4 near Pier 4	H	1	42.1	YES	6
		Abut 7	EB	1/2	42.1	NO	12
CALIFORNIA AQUEDUCT	39-0036L	Abut 1	BB	1/2	43.3	NO	12
		Abut 1	BW	1 1/2	55.0	YES	6
		Abut 5		2	55.0	YES	6
		Abut 10	EB	1	55.0	NO	12
CALIFORNIA AQUEDUCT	39-0036R	Abut 1	BB	1/2	43.3	NO	12
		Abut 1	BW	1 1/2	55.0	YES	6
		Abut 5		2	55.0	YES	6
		Abut 10	EB	1	55.0	NO	12
SAN JOAQUIN RIVER (SANTA RITA)	39-0152L	Abut 1	BB	1 1/2	39.5	NO	12
		Span 4 near Pier 5	H	2	39.5	YES	6
		Abut 8	EB	1	39.5	NO	12

LEGEND:

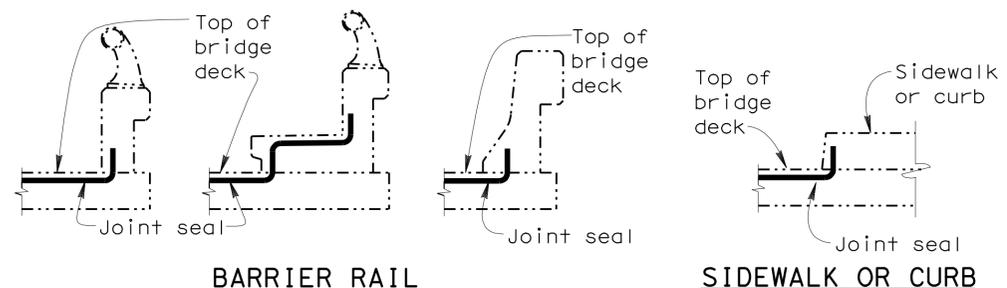
- BB - Paving Notch at beginning of bridge
- EB - Paving Notch at end of bridge
- BW - Abutment backwall joint
- H - Hinge Joint



JOINT SEAL LOCATION

The following notes apply to JOINT SEAL TYPE B:

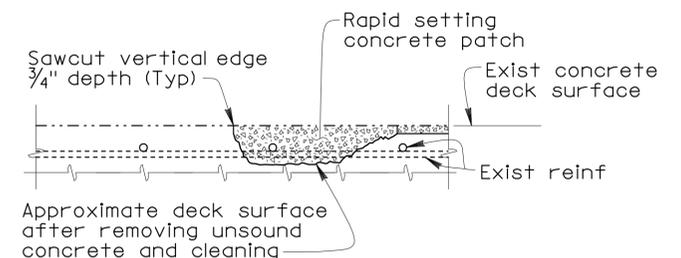
- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- 3) W1 shall be the smaller of the values 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 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 RSP B6-21



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.

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
HENRY MILLER AVENUE OVERCROSSING	39-0166	1	3
WEST ATWATER OVERHEAD	39-0009L	1	3
ROUTE 140/5 SEPARATION	39-0182	2	3
NORTH BRANCH MUD SLOUGH	39-0091	1	3
BLACK RASCAL CREEK	39-0094	1	3
SAN LUIS DAM FOREBAY	39-0145L	2	3
SAN LUIS DAM FOREBAY	39-0145L	2	3
MERCY SPRING ROAD	39-0152	1	3



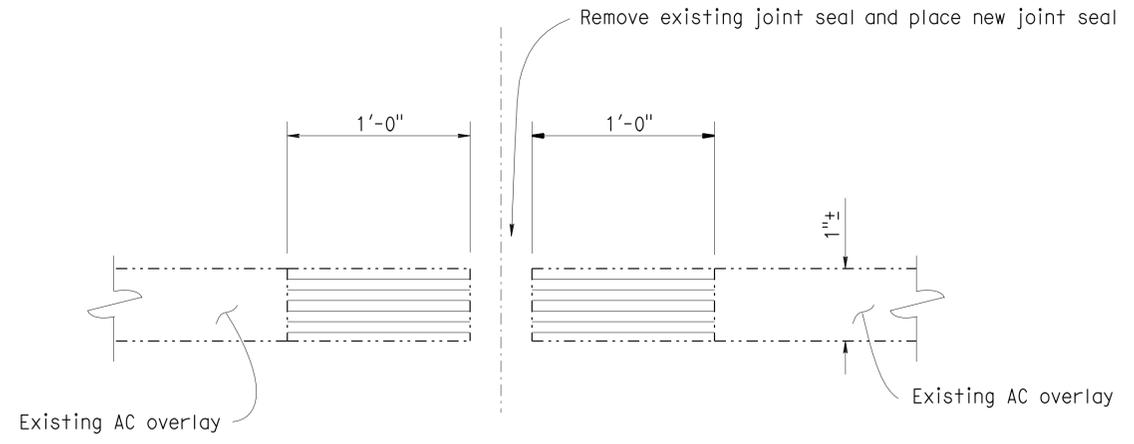
NOTE: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.

NO SCALE

DESIGN BY D. Acoba CHECKED P. Kang DETAILS BY David Kish CHECKED P. Kang QUANTITIES BY D. Acoba CHECKED P. Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTES 5, 59, 99, 140 152 & 165 BRIDGES JOINT SEAL DETAILS NO. 1
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 10604 EA OT4201	DISREGARD PRINTS BEARING EARLIER REVISION DATES 5-08-09 9-09-09 11-17-09	SHEET 6 OF 8
	STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	13	14
REGISTERED CIVIL ENGINEER			DATE	11-18-09	
1-25-10			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOPA No. 52003 Exp. CIVIL STATE OF CALIFORNIA					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

BRIDGE NUMBER	LOCATION	LENGTH (FT)
39-0009	Abut 1 R	41.3
	Hinge Span 4 R	41.3
	Abut 7 R	41.3
	Abut 1 L	45.3
	Hinge Span 4 L	45.3
	Abut 7 L	45.3



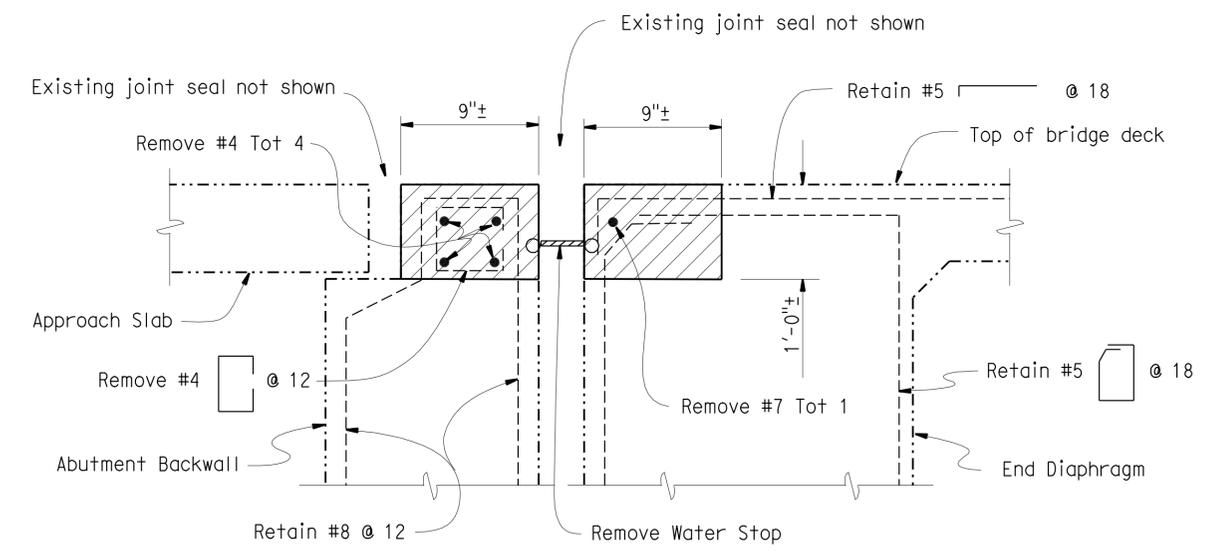
SECTION A-A

NOTES: (APPLY TO THIS SHEET ONLY)

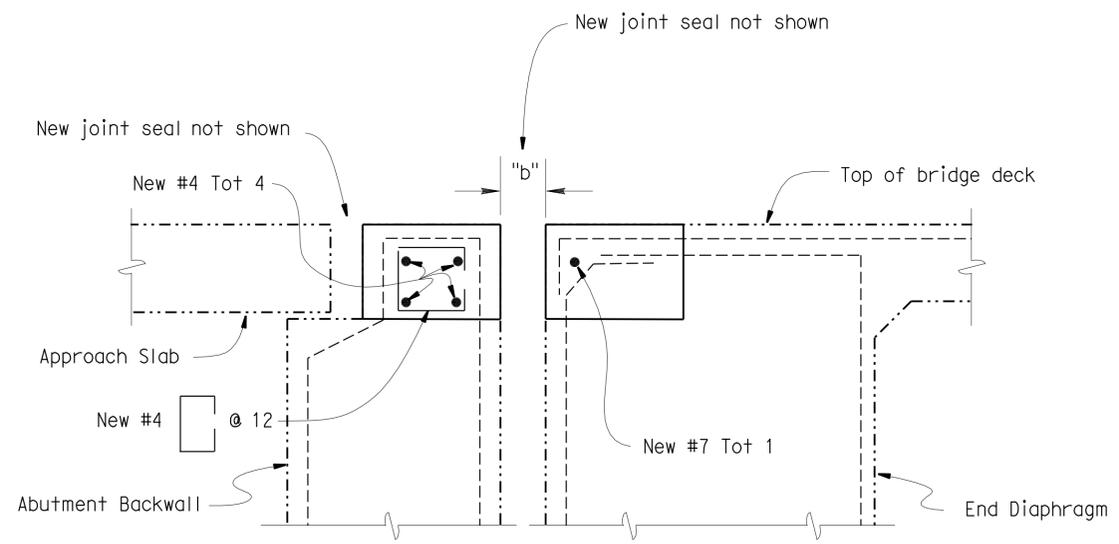
Indicates limits of remove 1"± depth AC overlay, prepare the bridge deck surface and place 1"± polyester concrete expansion dam.

Indicates limits of remove existing concrete and joint seal. Retain existing reinforcing steel (except where noted otherwise).

"b" Reconstructed gap width as determined by the Engineer.



EXISTING



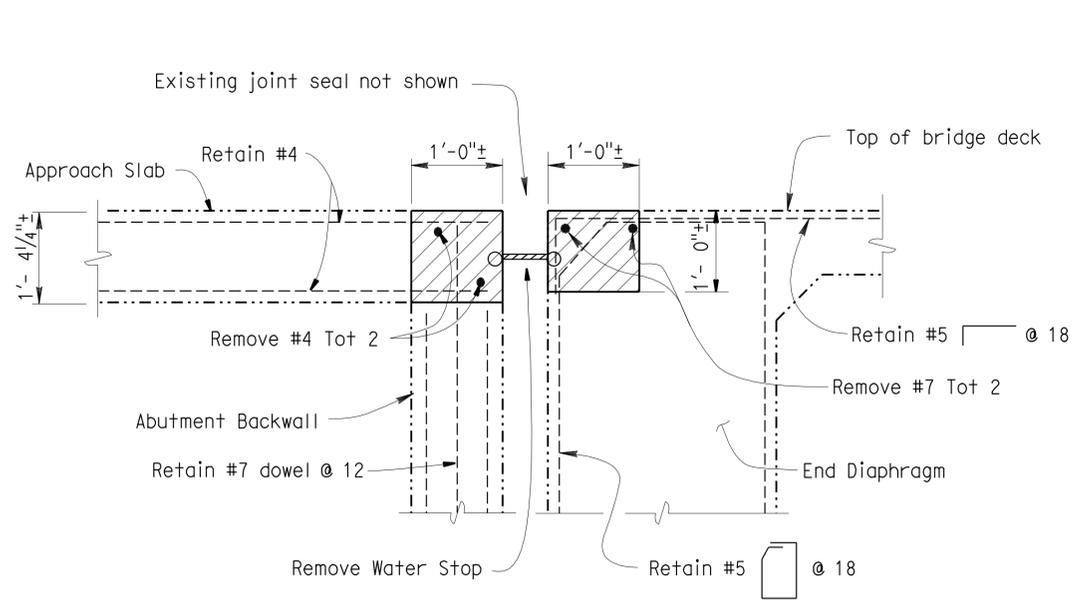
RECONSTRUCTION

SECTION B-B

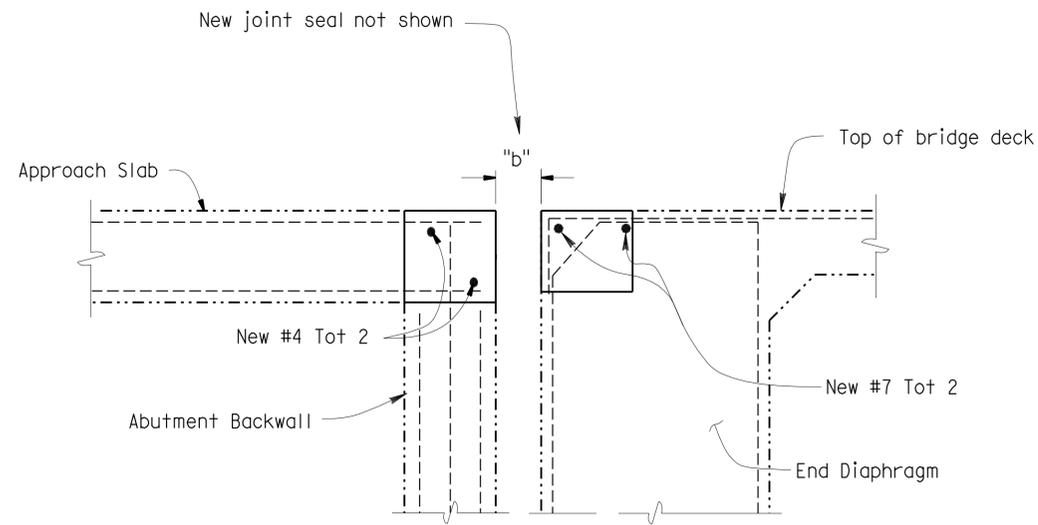
NO SCALE

DESIGN	BY	D. Acoba	CHECKED	P. Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTES 5, 59, 99, 140 152 & 165 BRIDGES		
	DETAILS	BY	David Kish	CHECKED			P. Kang	POST MILE		VARIES	JOINT SEAL DETAILS NO. 2
	QUANTITIES	BY	D. Acoba	CHECKED			P. Kang	BRIDGE NO.		VARIES	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 10604 EA 0T4201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-08-09 11-17-09	SHEET 7 OF 8	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5, 59, 99, 140, 152, 165	Var	14	14
REGISTERED CIVIL ENGINEER			DATE	11-18-09	
1-25-10			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



EXISTING



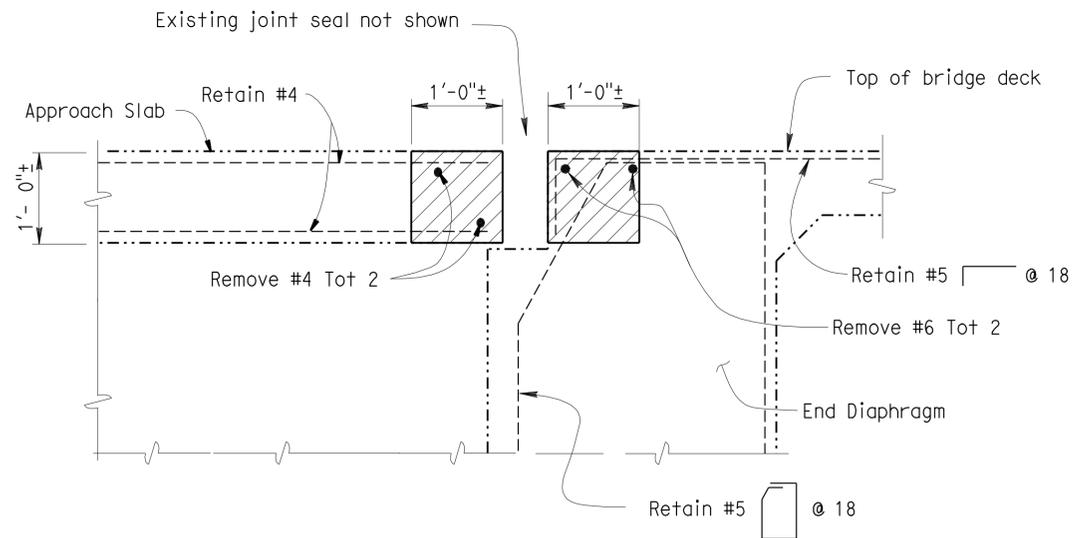
RECONSTRUCTION

NOTES: (APPLY TO THIS SHEET ONLY)

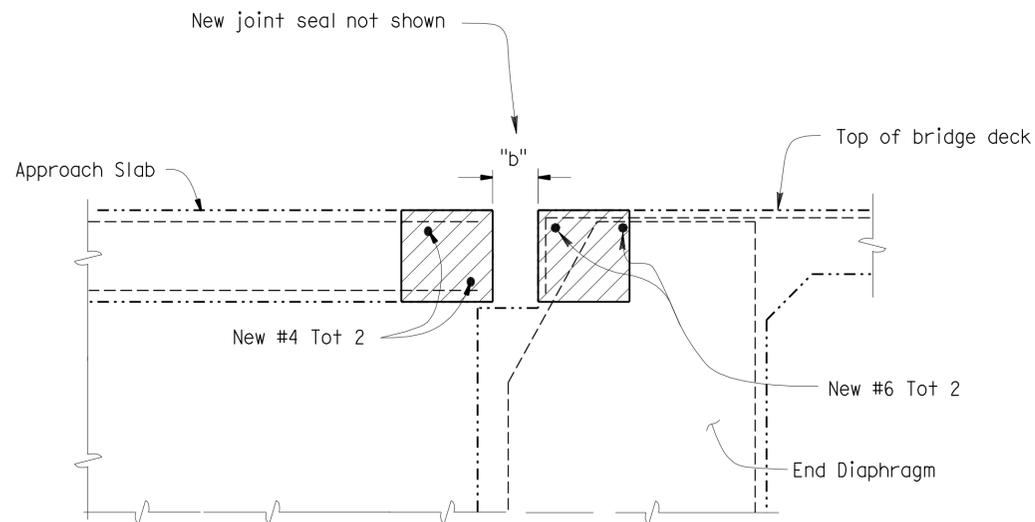
Indicates limits of remove existing concrete and joint seal. Retain existing reinforcing steel (except where noted otherwise).

"b" Reconstructed gap width as determined by the Engineer.

SECTION C-C



EXISTING



RECONSTRUCTION

NO SCALE

SECTION D-D

DESIGN	BY D. Acoba	CHECKED P. Kang
DETAILS	BY David Kish	CHECKED P. Kang
QUANTITIES	BY D. Acoba	CHECKED P. Kang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 5, 59, 99, 140 152 & 165 BRIDGES
JOINT SEAL DETAILS NO. 3