

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3	DETOUR PLAN
4	PAVEMENT DELINEATION QUANTITIES
5-7	REVISED STANDARD PLANS

STRUCTURE PLANS  
8-14 ROUTES 50 AND 51 BRIDGES

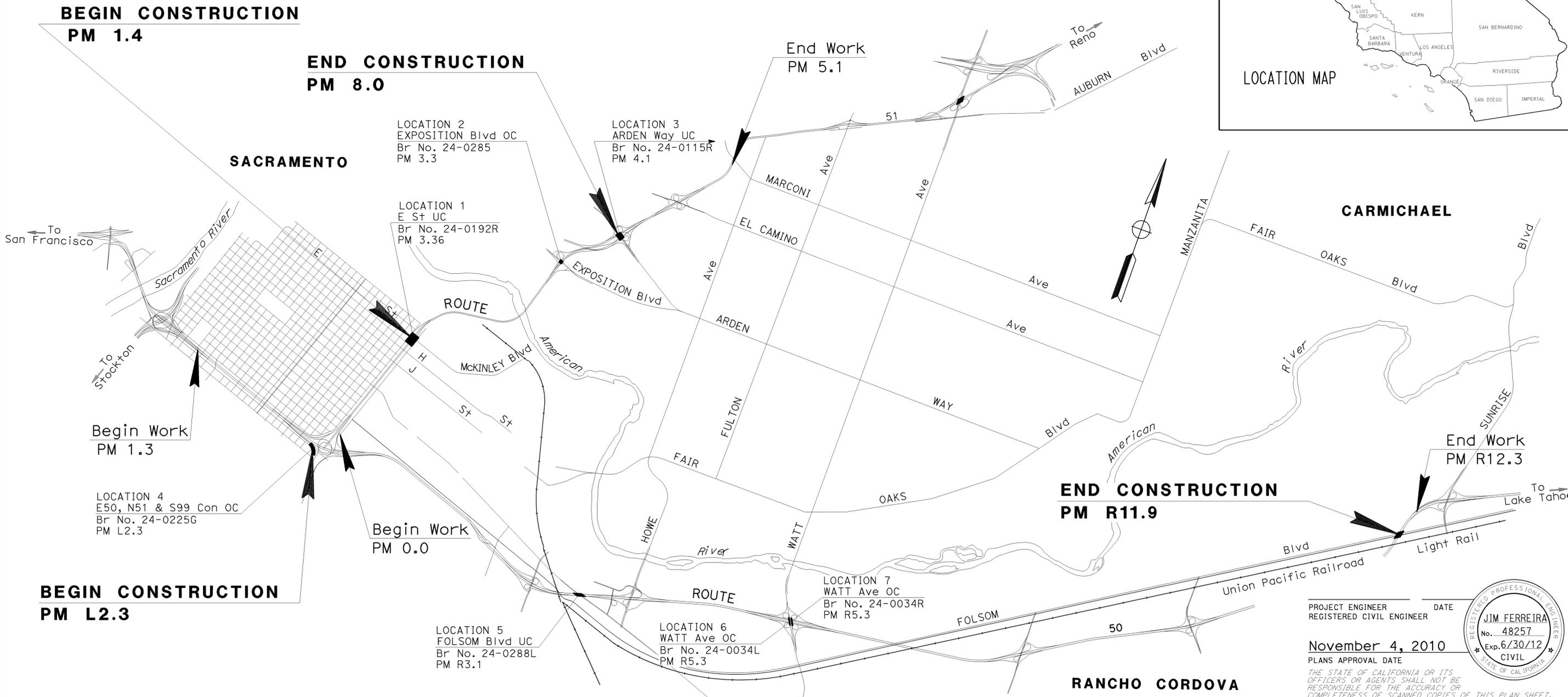
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY**

**IN SACRAMENTO COUNTY  
AT VARIOUS LOCATIONS  
ON ROUTE 51 FROM "E" STREET UNDERCROSSING  
TO ARDEN WAY UNDERCROSSING  
ON ROUTE 50 FROM ROUTE 51/99 CONNECTOR  
TO WEST CITRUS OVERHEAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac Sac	50 51	L2.3/R11.9 1.4/4.1	1	14



PROJECT MANAGER  
**BRIAN TOEPFER**

DESIGN ENGINEER  
**BRIAN TOEPFER**

PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER  
**November 4, 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.	<b>03-3M7004</b>
PROJECT ID	<b>0300000593</b>

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

NO SCALE

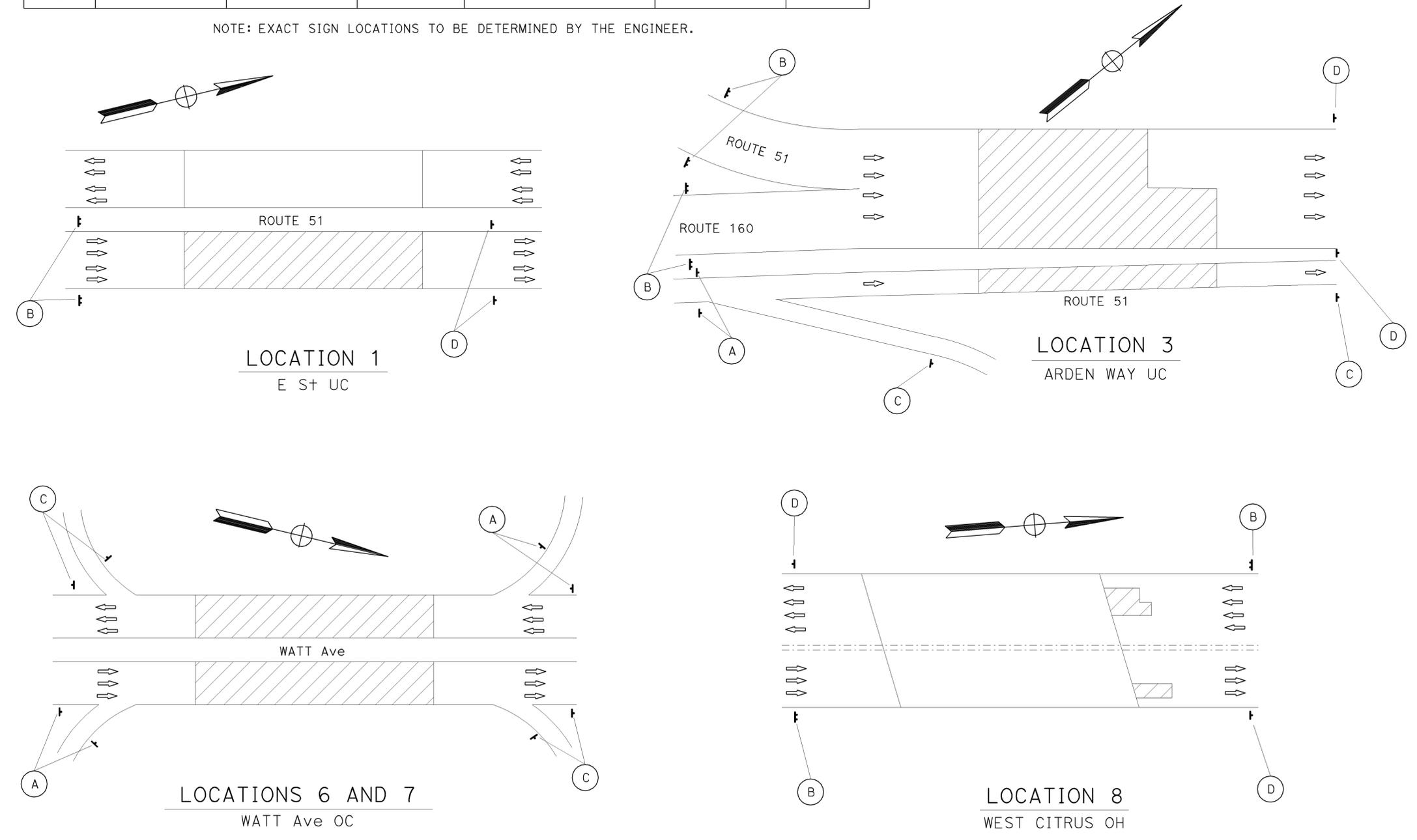
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	6
(B)	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	8
(C)	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	6
(D)		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	6

LEGEND

- (X) CONSTRUCTION AREA SIGN LETTER
- ↑ SIGN - SINGLE POST
- ↑↑ SIGN - TWO POSTS
- ➔ DIRECTIONAL ARROW

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



NOTE: THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 TRAFFIC  
 FUNCTIONAL SUPERVISOR  
 JOSEPH W. HORTON  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 CHUCK COOK  
 JEFF JEWETT  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	50,51	L2.3/R11.9 1.4/4.1	3	14

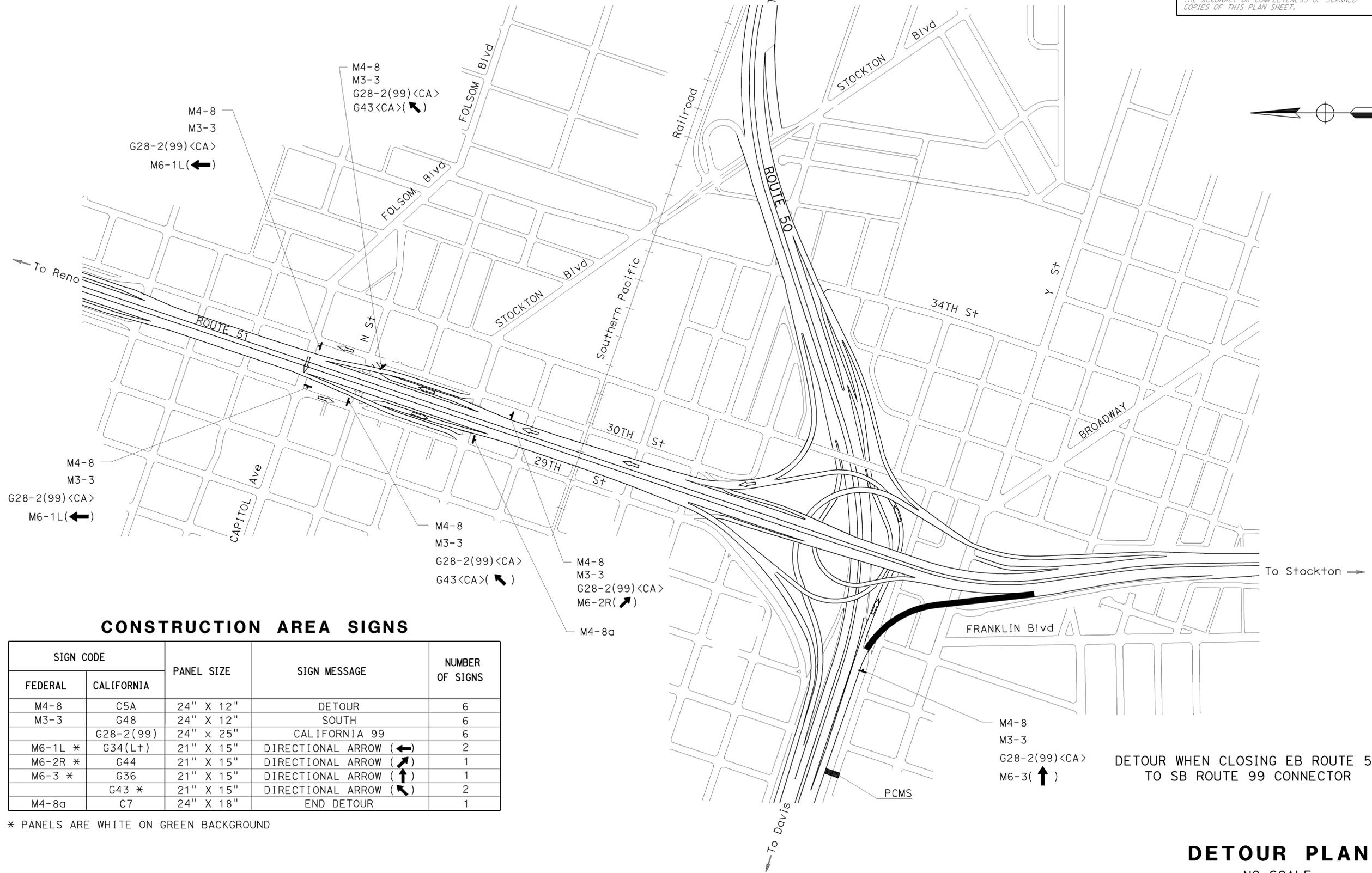
James M. Ferreira 11-4-10  
REGISTERED CIVIL ENGINEER DATE

11-4-10  
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.

**NOTES**

1. THIS PLAN ACCURATE FOR DETOUR CONSTRUCTION WORK ONLY.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. SEE CONSTRUCTION AREA SIGN PLAN SHEETS FOR OTHER CONSTRUCTION AREA SIGNS.
4. ALL SIGN CODES ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA <ca> SIGN CODES.



**CONSTRUCTION AREA SIGNS**

SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA			
M4-8	C5A	24" X 12"	DETOUR	6
M3-3	G48	24" X 12"	SOUTH	6
	G28-2(99)	24" X 25"	CALIFORNIA 99	6
M6-1L *	G34(L+)	21" X 15"	DIRECTIONAL ARROW (←)	2
M6-2R *	G44	21" X 15"	DIRECTIONAL ARROW (↗)	1
M6-3 *	G36	21" X 15"	DIRECTIONAL ARROW (↑)	1
	G43 *	21" X 15"	DIRECTIONAL ARROW (↘)	2
M4-8a	C7	24" X 18"	END DETOUR	1

\* PANELS ARE WHITE ON GREEN BACKGROUND

DETOUR WHEN CLOSING EB ROUTE 50 TO SB ROUTE 99 CONNECTOR

**DETOUR PLAN**  
NO SCALE

**DE-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR: BRIAN TOEPPER

TRAFFIC

DESIGNED BY: JIM FERREIRA

CHECKED BY: JOHN KEBER

REVISOR: JIM FERREIRA

DATE: 11-4-10

DATE PLOTTED => 05-NOV-2010 TIME PLOTTED => 14:07



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac Sac	50 51	L2,3/R11,9 1,4/4,1	5	14

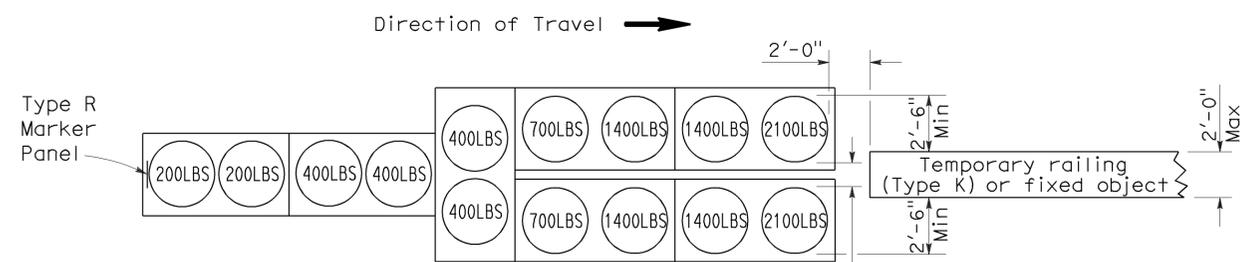
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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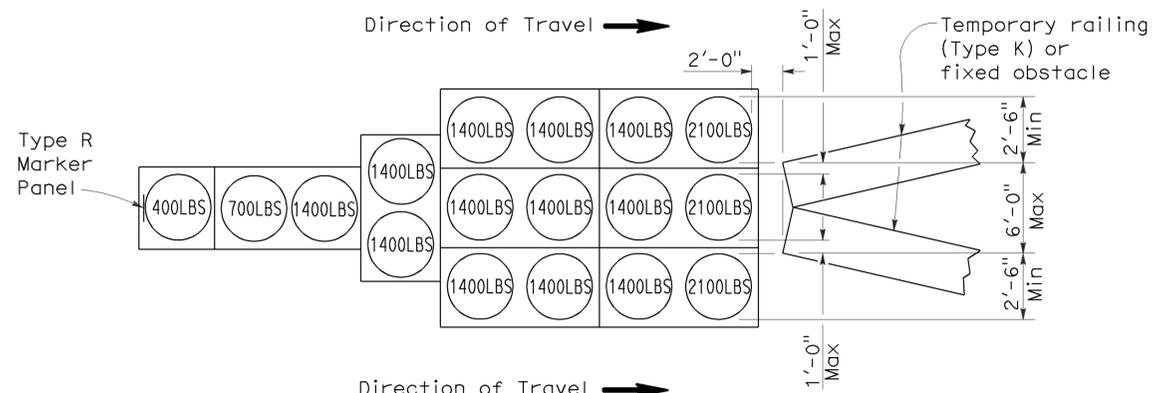
To accompany plans dated 11-4-10

2006 REVISED STANDARD PLAN RSP T1A



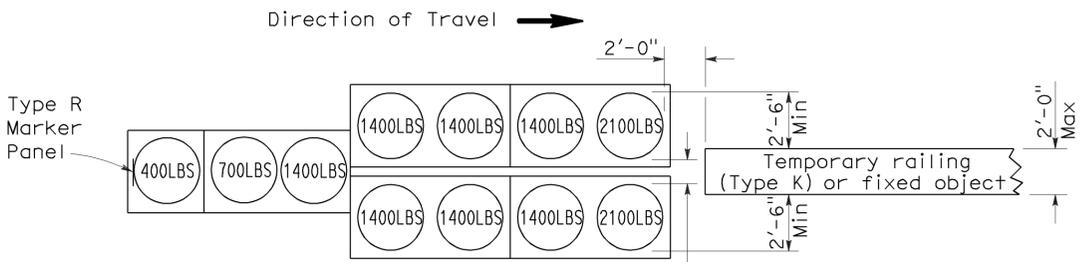
**ARRAY 'TU14'**

Approach speed 45 mph or more



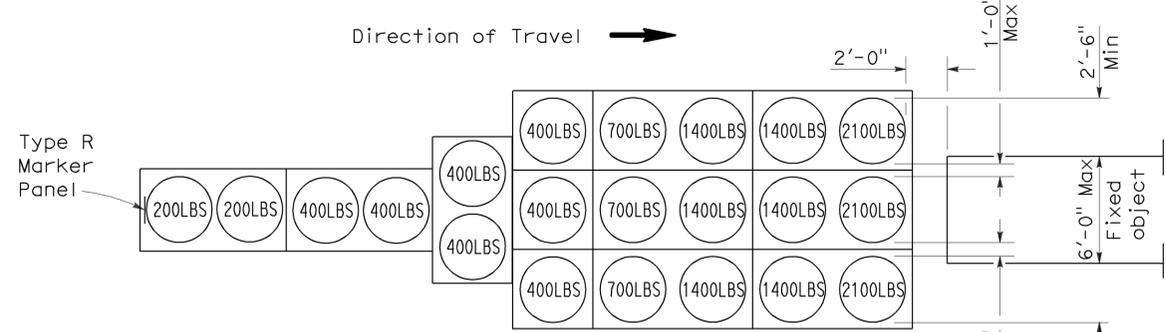
**ARRAY 'TU17'**

Approach speed less than 45 mph



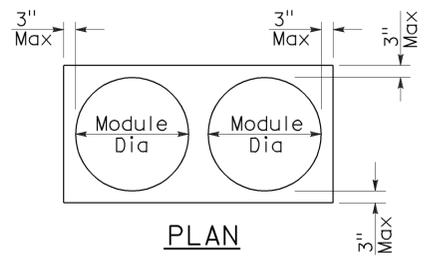
**ARRAY 'TU11'**

Approach speed less than 45 mph

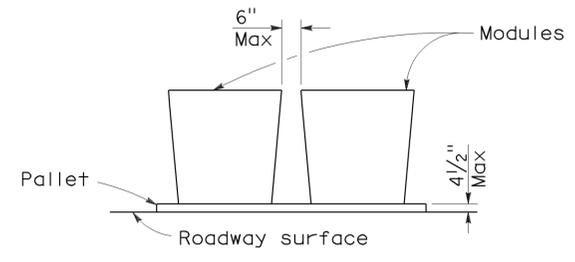


**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1A**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac Sac	50 51	L2.3/R11.9 1.4/4.1	6	14

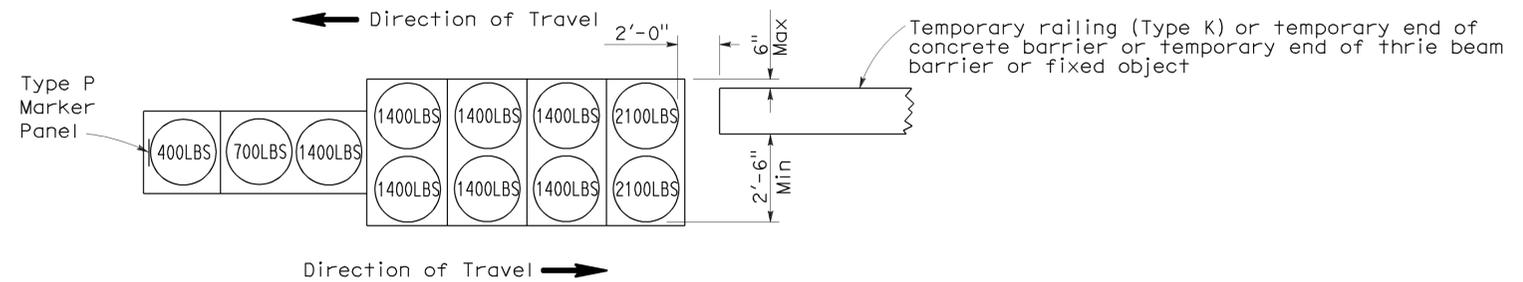
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

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.*

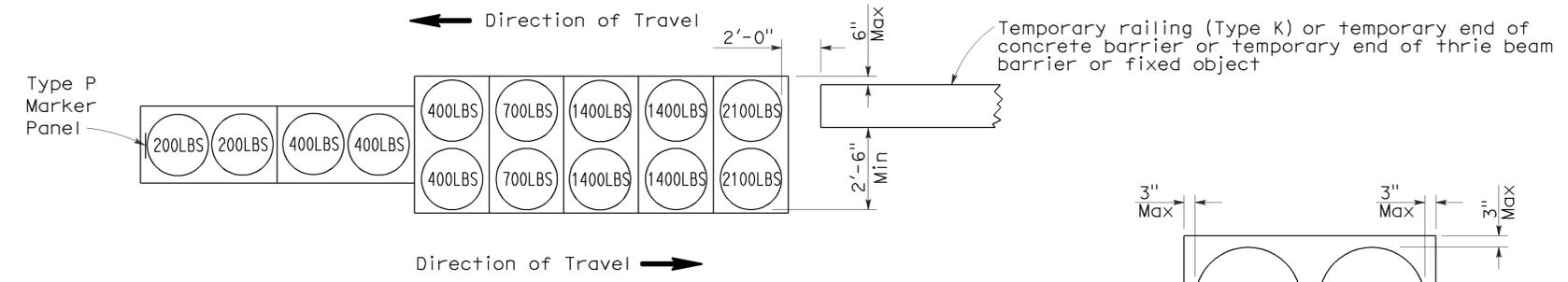
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 11-4-10



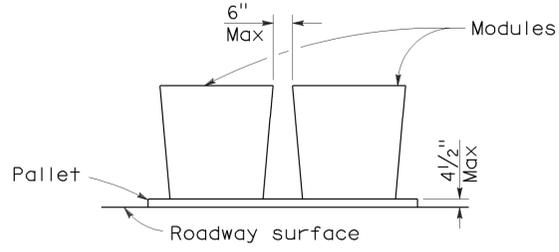
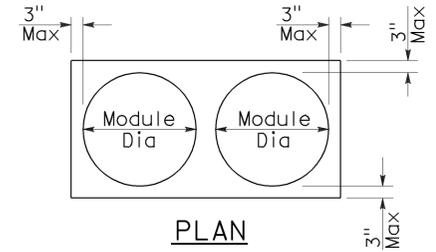
**ARRAY 'TB11'**

Approach speed less than 45 mph



**ARRAY 'TB14'**

Approach speed 45 mph or more



**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

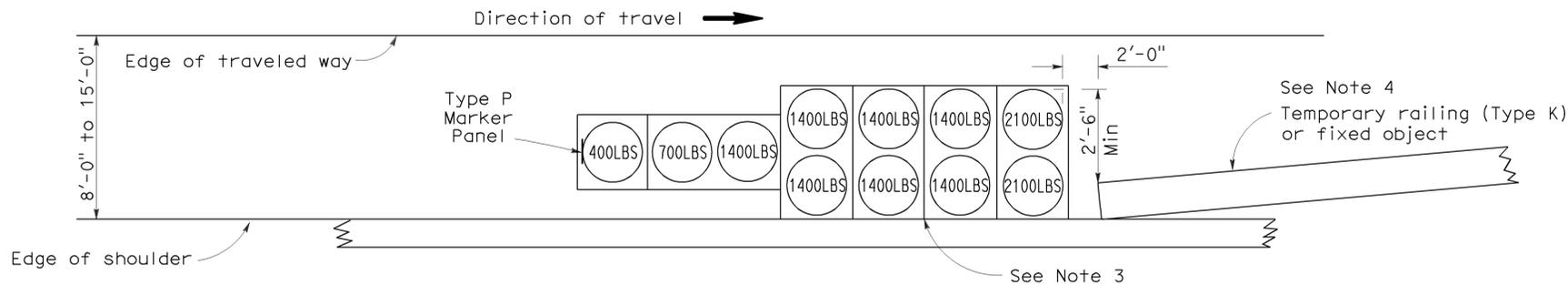
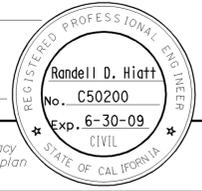
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac Sac	50 51	L2.3/R11.9 1.4/4.1	7	14

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

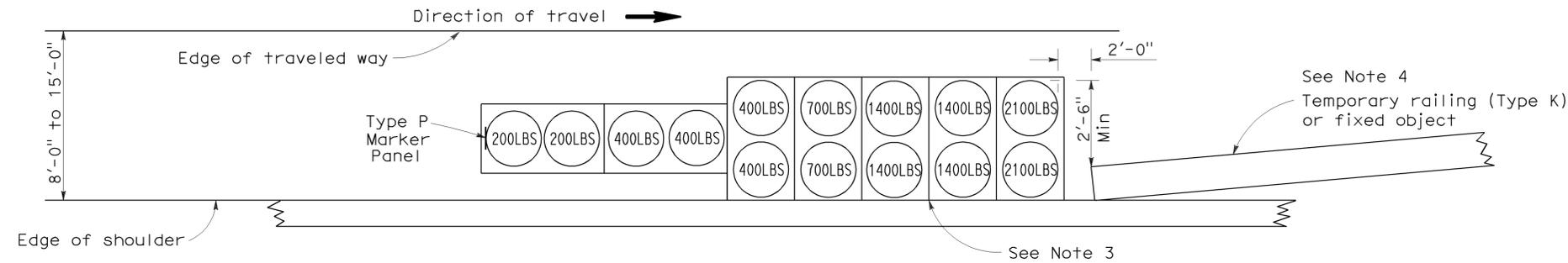
June 6, 2008  
PLANS APPROVAL DATE

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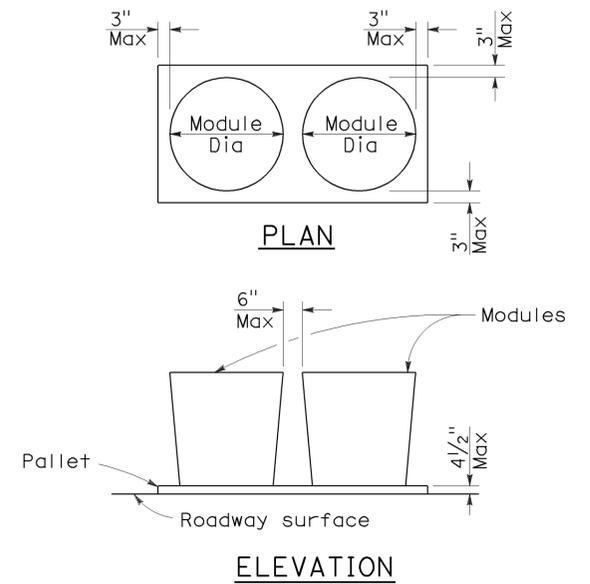
To accompany plans dated 11-4-10



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



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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

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

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

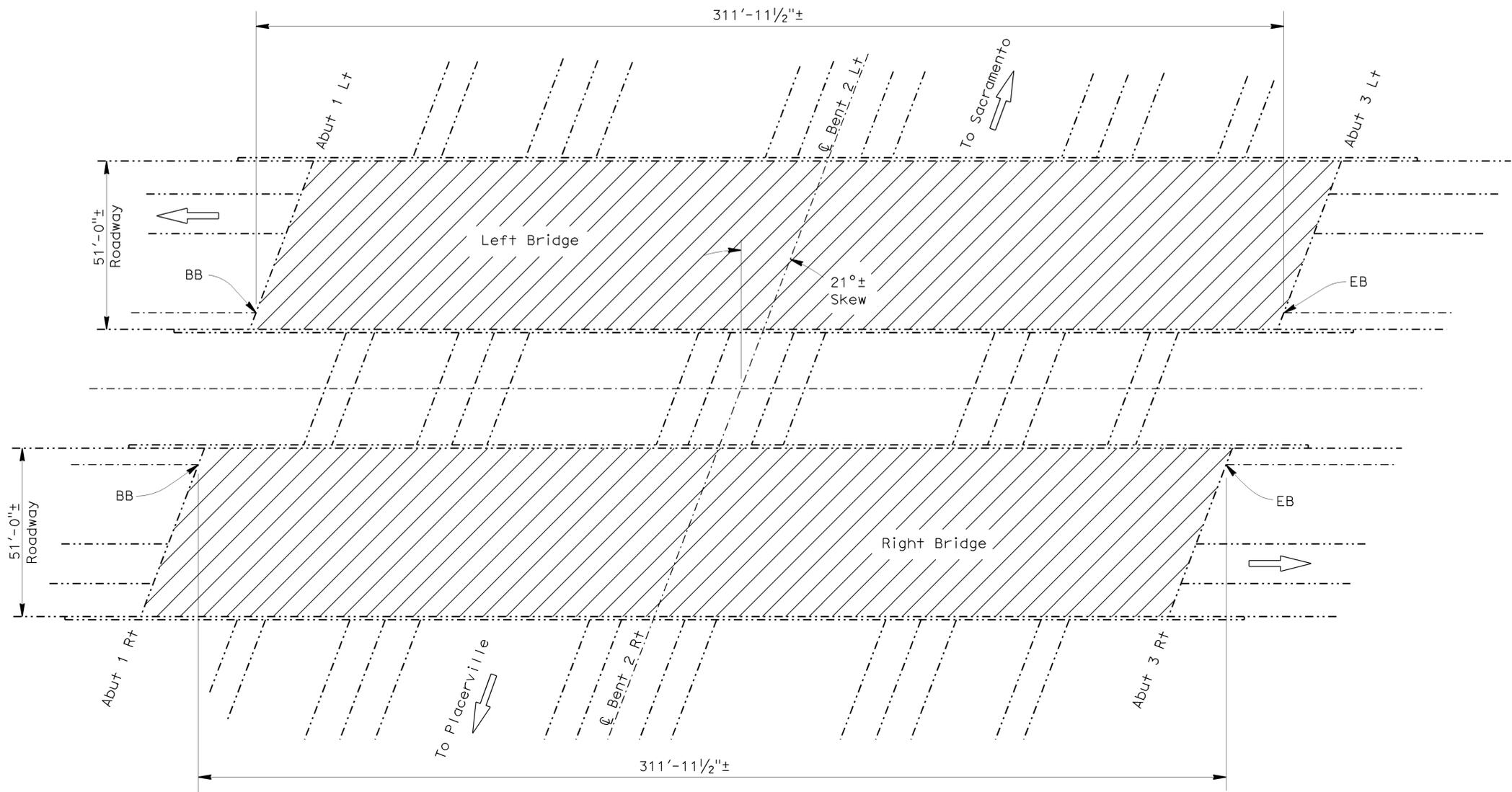
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	50,51	L2,3/R11,9 1.4/4.1	8	14

Charles R. Hutchinson 9-14-10  
 REGISTERED CIVIL ENGINEER DATE

11-4-10  
 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.

REGISTERED PROFESSIONAL ENGINEER  
 CHARLES R. HUTCHINSON  
 No. C 54226  
 Exp. 12-31-11  
 CIVIL  
 STATE OF CALIFORNIA



Notes:

----- Indicates existing structure.

Indicates limits of remove slurry seal, clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch deck. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.

**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

**WATT AVENUE OVERCROSSING**  
 BR NO. 24-0034L/R, SAC, RTE 50, PM R5.33,5.34  
 1"=20'

WATT AVENUE OVERCROSSING BRIDGE NO. 24-0034L/R

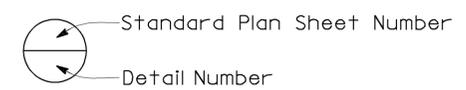
QUANTITIES

REMOVE UNSOUND CONCRETE	80	CF
CLEAN BRIDGE DECK	31,820	SQFT
REMOVE SLURRY SEAL	31,820	SQFT
RAPID SETTING CONCRETE (PATCH)	80	CF
TREAT BRIDGE DECK	31,820	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	440	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")

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



 9-14-10 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 50, 51 BRIDGES</b> <b>GENERAL PLAN NO. 1</b>
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	CHECKED Tina Chen			VARIOUS	
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong						VARIES	

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

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

CU 03  
EA 3M7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

5-17-10	6-16-10	9-01-10	9-08-10	9-14-10	10-20-10
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SHEET 1 OF 7

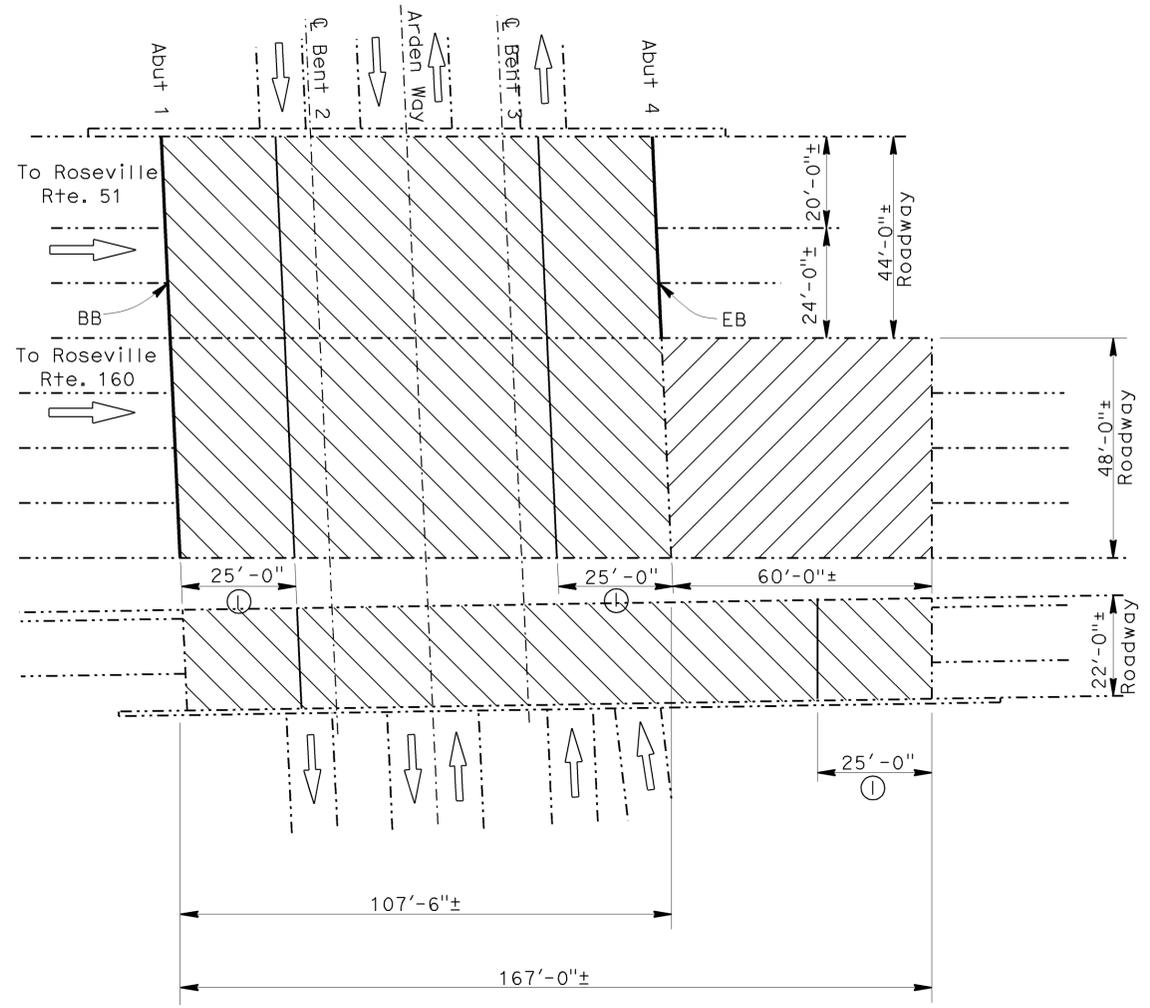
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	50,51	L2,3/R11,9 1.4/4.1	9	14

*Charles R. Hutchinson* 9-14-10  
 REGISTERED CIVIL ENGINEER DATE

11-4-10  
 PLANS APPROVAL DATE

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**ARDEN WAY UNDERCROSSING**  
 BR NO. 24-0115R, SAC, RTE 51, PM 4.06  
 1"=20'

**Notes:**

- Indicates existing structure.
- Indicates location of joint seals removal and placement of new joint seals. Prior to placement of new joint seal repair joint spalls. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.
- Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch deck. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.
- Indicates limits of prepare existing concrete deck, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch deck. For details see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.
- ① Indicates limits of remove existing concrete deck, prepare existing concrete deck, furnish and place new polyester concrete overlay. For details, see "DECK SURFACE REMOVAL DETAIL" on JOINT SEAL DETAILS NO. 2 sheet.

ARDEN WAY UNDERCROSSING	BRIDGE NO. 24-0115R
QUANTITIES	
REMOVE CONCRETE DECK SURFACE	5,700 SQFT
REMOVE UNSOUND CONCRETE	44 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,564 SQFT
CLEAN BRIDGE DECK	2,880 SQFT
CLEAN EXPANSION JOINT	138 LF
RAPID SETTING CONCRETE (PATCH)	44 CF
FURNISH POLYESTER CONCRETE OVERLAY	1,018 CF
PLACE POLYESTER CONCRETE OVERLAY	13,564 SQFT
JOINT SEAL (MR 1")	138 LF
TREAT BRIDGE DECK	2,880 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	39 GAL

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

 DESIGN ENGINEER	DESIGN BY Charles Hutchinson	CHECKED KHANH TRUONG	LAYOUT BY Trung Lam	CHECKED CHARLES HUTCHINSON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS	<b>ROUTE 50, 51 BRIDGES</b> <b>GENERAL PLAN NO. 2</b>
	DETAILS BY Trung Lam	CHECKED KHANH TRUONG	BY Tina Chen	PLANS AND SPECIFICATIONS COMPARED TINA CHEN			POST MILE VARIOUS	
	QUANTITIES BY Charles Hutchinson	CHECKED KHANH TRUONG			CU 03 EA 3M7001		REVISION DATES	SHEET 2 OF 7

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES: 5-12-10, 6-10-10, 9-01-10, 9-08-10, 9-14-10, 10-20-10

FILE => 03-3m7001\_02\_gp2.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	50,51	L2.3/R11.9 1.474.1	10	14

*Charles R. Hutchinson* 9-14-10  
REGISTERED CIVIL ENGINEER DATE

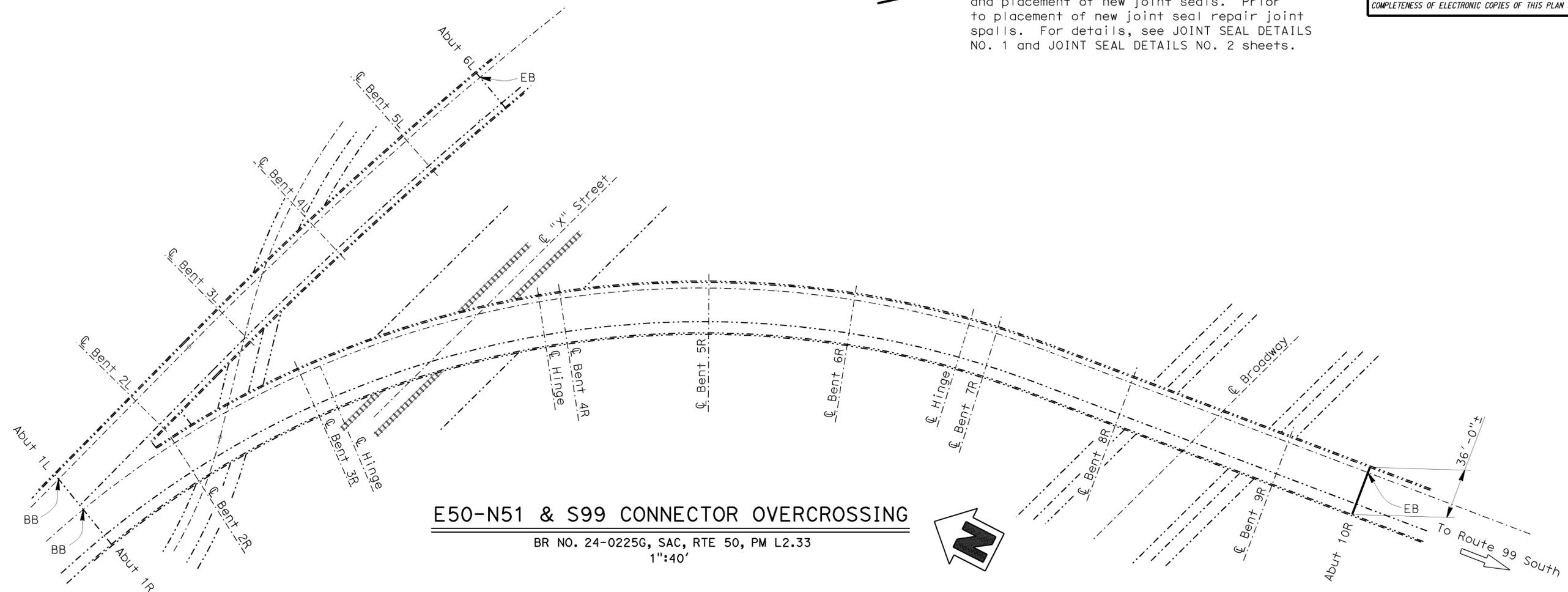
11-4-10  
PLANS APPROVAL DATE

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.

Notes:

----- Indicates existing structure.

————— Indicates location of joint seals removal and placement of new joint seals. Prior to placement of new joint seal repair joint spalls. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.



**E50-N51 & S99 CONNECTOR OVERCROSSING**  
BR NO. 24-0225G, SAC, RTE 50, PM L2.33  
1"=40'

E50-N51 & S99 CONNECTOR OVERCROSSING	BRIDGE NO. 24-0225G
QUANTITIES	
REMOVE UNSOUND CONCRETE	1 CF
CLEAN EXPANSION JOINT	37 LF
RAPID SETTING CONCRETE (PATCH)	1 CF
JOINT SEAL (MR 1 1/2")	37 LF

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

<i>Michael J. Lee</i> 9-14-10 DESIGN ENGINEER	DESIGN BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS	ROUTE 50, 51 BRIDGES GENERAL PLAN NO. 3
	DETAILS BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS BY Tina Chen	PLANS AND SPECIFICATIONS COMPARED Tina Chen			POST MILE VARIOUS	
QUANTITIES BY Charles Hutchinson	CHECKED Khanh Truong				CU 03 EA 3M7001	REVISION DATES	SHEET 3 OF 7	

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

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 6-10-10, 9-01-10, 9-08-10, 9-14-10, 10-20-10

FILE => 03-3m7001\_03\_gp3.dgn

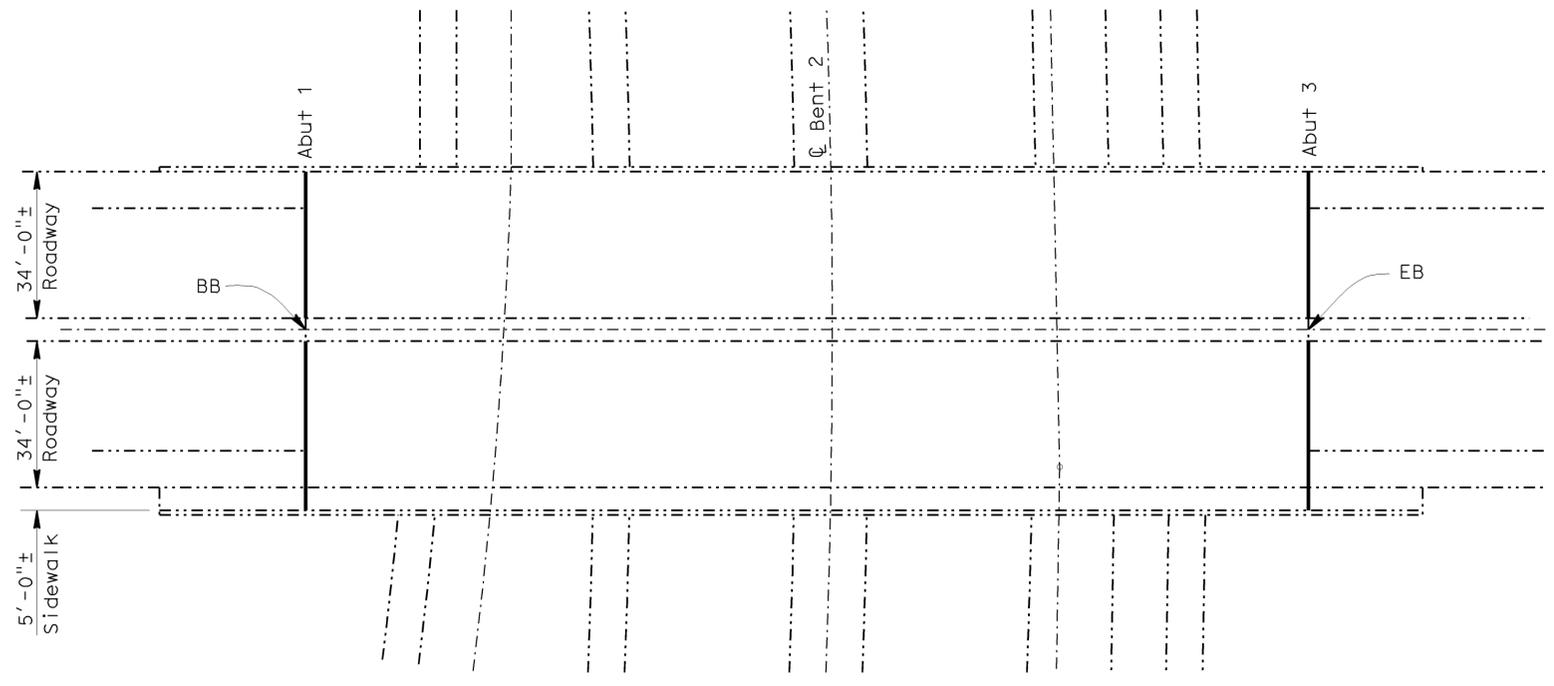
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	50,51	L2,3/R11,9 1,4/4,1	11	14

Charles R. Hutchinson 9-14-10  
 REGISTERED CIVIL ENGINEER DATE

11-4-10  
 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.

REGISTERED PROFESSIONAL ENGINEER  
 CHARLES R. HUTCHINSON  
 No. C 54226  
 Exp. 12-31-11  
 CIVIL  
 STATE OF CALIFORNIA



**EXPOSITION BOULEVARD OVERCROSSING**  
 BR NO. 24-0285, SAC, RTE 51, PM 3.36  
 1":20'

**Notes:**

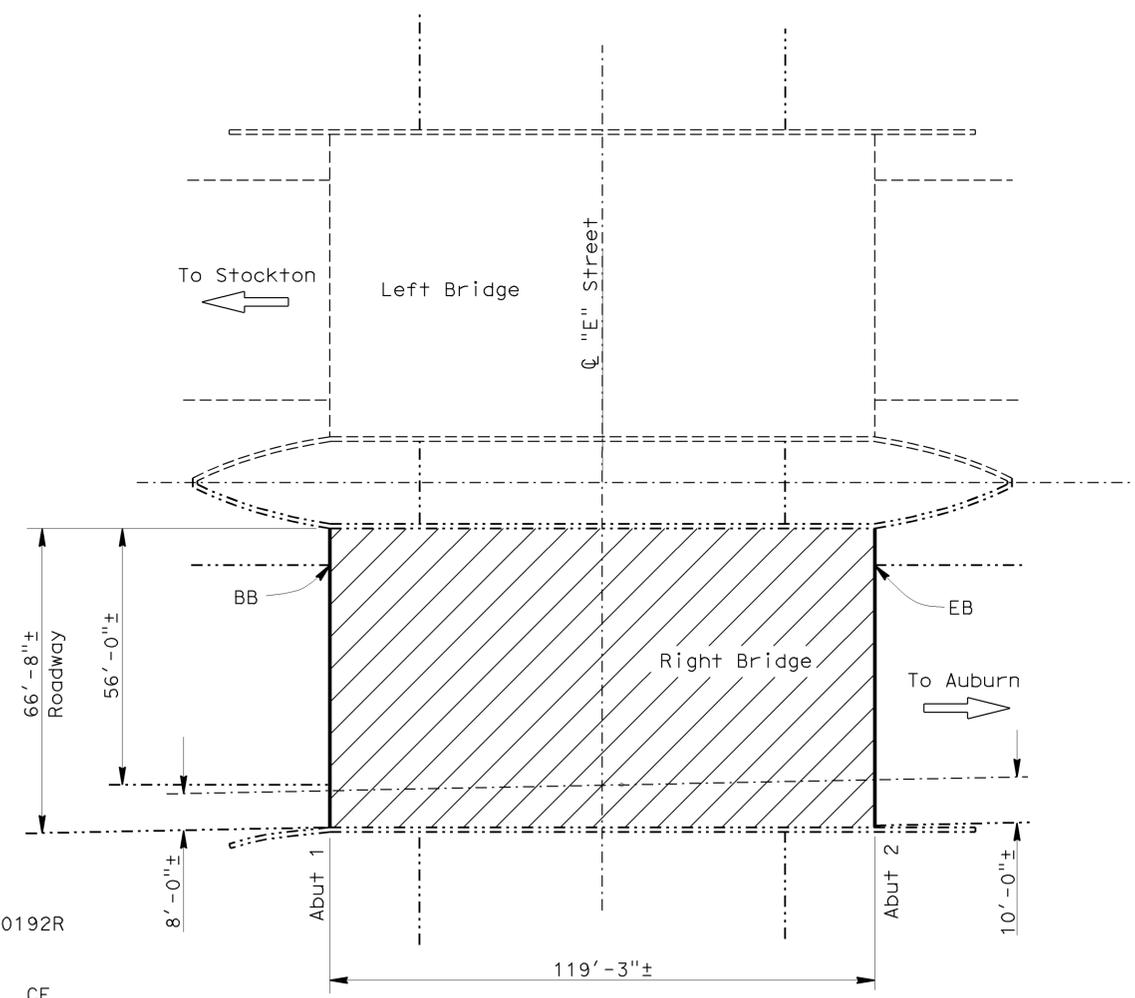
- Indicates existing structure.
- Indicates location of joint seals removal and placement of new joint seals. Prior to placement of new joint seal repair joint spalls. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.
- Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.

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

EXPOSITION BOULEVARD OVERCROSSING BRIDGE NO. 24-0285

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	148	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1")	148	LF



"E" STREET UNDERCROSSING BRIDGE NO. 24-0192R

QUANTITIES

REMOVE UNSOUND CONCRETE	22	CF
CLEAN BRIDGE DECK	7,910	SQFT
CLEAN EXPANSION JOINT	134	LF
RAPID SETTING CONCRETE (PATCH)	22	CF
JOINT SEAL (MR 1/2")	134	LF
TREAT BRIDGE DECK	7,910	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	110	GAL

**"E" STREET UNDERCROSSING**  
 BR NO. 24-0192R, SAC, RTE 51, PM 1.44  
 1":20'

 9-14-10 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 50, 51 BRIDGES</b> <b>GENERAL PLAN NO. 4</b>		
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	PLANS AND SPECIFICATIONS COMPARED Tina Chen			VARIOUS			
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong					VARIES				
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 03 EA 3M7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 6-18-10 9-01-10 9-08-10 9-14-10 10-20-10	SHEET 4 OF 7

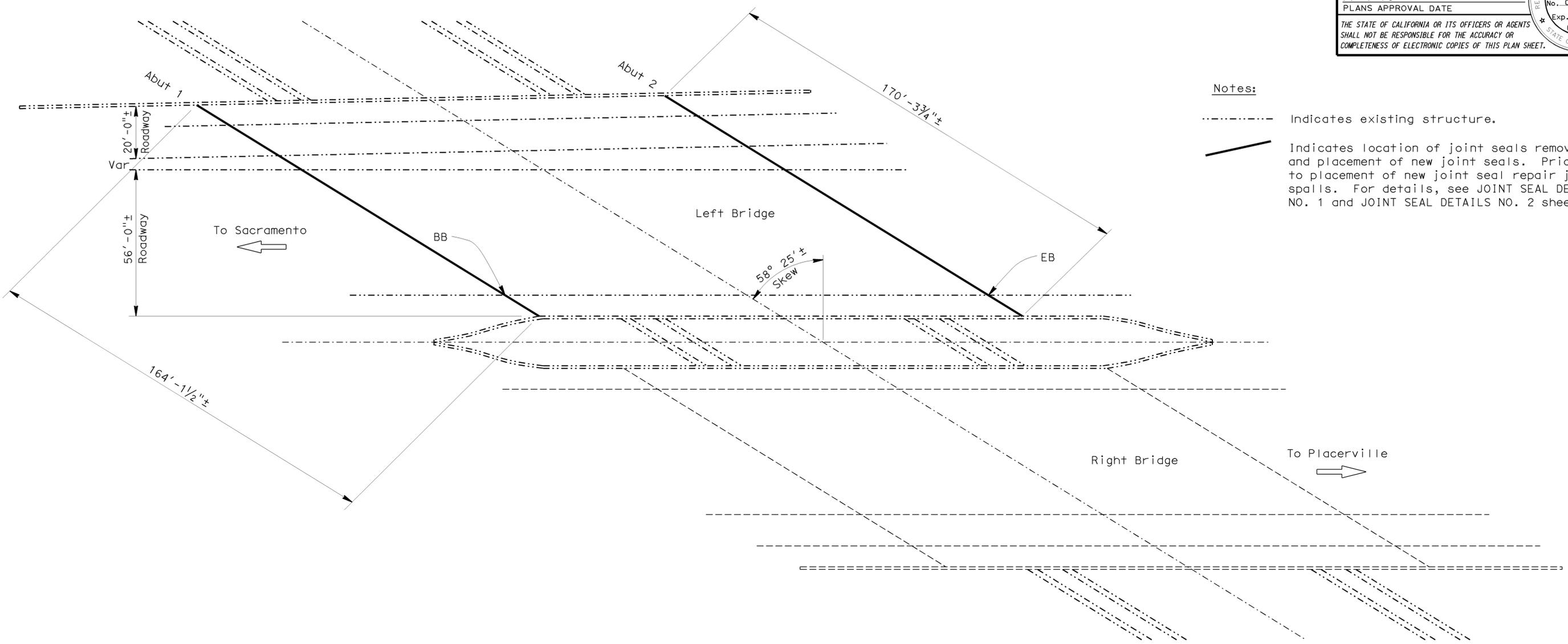
FILE => 03-3m7001\_04\_gp4.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	50,51	L2.3/R11.9 1.4/4.1	12	14

*Charles R. Hutchinson* 9-14-10  
 REGISTERED CIVIL ENGINEER DATE

11-4-10  
 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.



**Notes:**

- - - - - Indicates existing structure.  
 ———— Indicates location of joint seals removal and placement of new joint seals. Prior to placement of new joint seal repair joint spalls. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.

FOLSOM BOULEVARD UNDERCROSSING BRIDGE NO. 24-0288L

QUANTITIES	
REMOVE UNSOUND CONCRETE	2 CF
CLEAN EXPANSION JOINT	336 LF
RAPID SETTING CONCRETE (PATCH)	2 CF
JOINT SEAL (MR 1")	336 LF

**FOLSOM BOULEVARD UNDERCROSSING**

BR NO. 24-0288L, SAC, RTE 50, PM R3.13

1"=20'

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

 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 50, 51 BRIDGES</b> <b>GENERAL PLAN NO. 5</b>		
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	CHECKED Tina Chen			POST MILE			
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong			CHECKED Tina Chen			VARIES			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 03 EA 3M7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-18-10 9-01-10 9-08-10 9-14-10 10-20-10	SHEET 5 OF 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	50,51	L2,3/R11.9 1.4/4.1	13	14

*Charles R. Hutchinson* 9-14-10  
 REGISTERED CIVIL ENGINEER DATE

11-4-10  
 PLANS APPROVAL DATE

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### JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NO.	LOCATION	MINIMUM "MR" (inch)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (inches)	APPROXIMATE DEPTH OF JOINT SPALLS (inches)	APPROXIMATE WIDTH OF JOINT SPALLS (inches)	APPROXIMATE LENGTH OF JOINT SPALLS (feet)
ARDEN WAY UC	24-0115R	Abut 1 BB	1	93.0	No	12	3	6	5
		Abut 4 EB	1	45.0	No	12	3	6	5
E50-N51&S99 CONN. OC	24-0225G	Abut 10R EB	1 1/2	37.0	No	12	3	6	5
EXPOSITION BLVD OC	24-0285	Abut 1 BW	1	74.0	Yes	12	3	6	5
		Abut 3 BW	1	74.0	Yes	12	3	6	5
"E" STREET UC	24-0192R	Abut 1 BB	1/2	67.0	No	12	3	6	5
		Abut 2 EB	1/2	67.0	No	12	3	6	5
FOLSOM BLVD UC	24-0288L	Abut 1 BB	1	165.0	No	11 1/2	3	6	5
		Abut 2 EB	1	171.0	No	11 1/2	3	6	5

LEGEND: BB = Paving Notch at Beginning of Bridge  
 EB = Paving Notch at End of Bridge  
 BW = Backwall

**NOTES:**

The following note applies to JOINT SEAL TYPE A:

Install seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see

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 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

### DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (percent)	APPROXIMATE DEPTH (inches)
WATT AVENUE OVERCROSSING	24-0034L	1	3
	24-0034R	1	3
ARDEN WAY UNDERCROSSING	24-0115R	1	3
"E" STREET UNDERCROSSING	24-0192R	1	3

Location to be determined by the Engineer.  
 For details, see "DECK REPAIR DETAIL" on JOINT SEAL DETAILS NO. 2 sheet.

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DESIGN</td> <td style="width: 20%;">BY Charles Hutchinson</td> <td style="width: 20%;">CHECKED Khanh Truong</td> </tr> <tr> <td>DETAILS</td> <td>BY Trung Lam</td> <td>CHECKED Khanh Truong</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Charles Hutchinson</td> <td>CHECKED Khanh Truong</td> </tr> </table>	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	DETAILS	BY Trung Lam	CHECKED Khanh Truong	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BRIDGE NO.</td> <td>VARIOUS</td> </tr> <tr> <td>POST MILE</td> <td>VARIES</td> </tr> </table>	BRIDGE NO.	VARIOUS	POST MILE	VARIES	<b>ROUTE 50, 51 BRIDGES</b> <b>JOINT SEAL DETAILS NO. 1</b>
DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong															
DETAILS	BY Trung Lam	CHECKED Khanh Truong															
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong															
BRIDGE NO.	VARIOUS																
POST MILE	VARIES																
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		0 1 2 3	6-10-10 9-01-10 9-08-10 9-14-10 10-20-10	6	7												

