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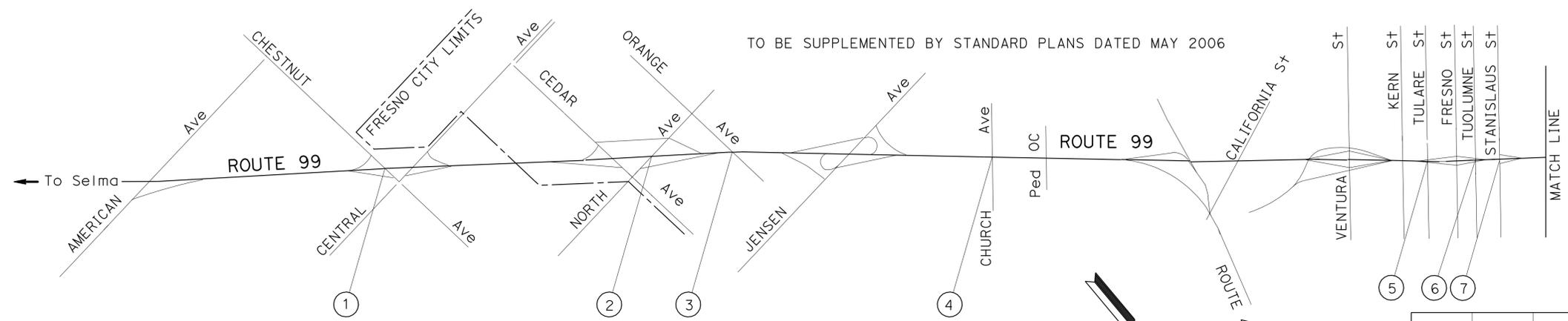
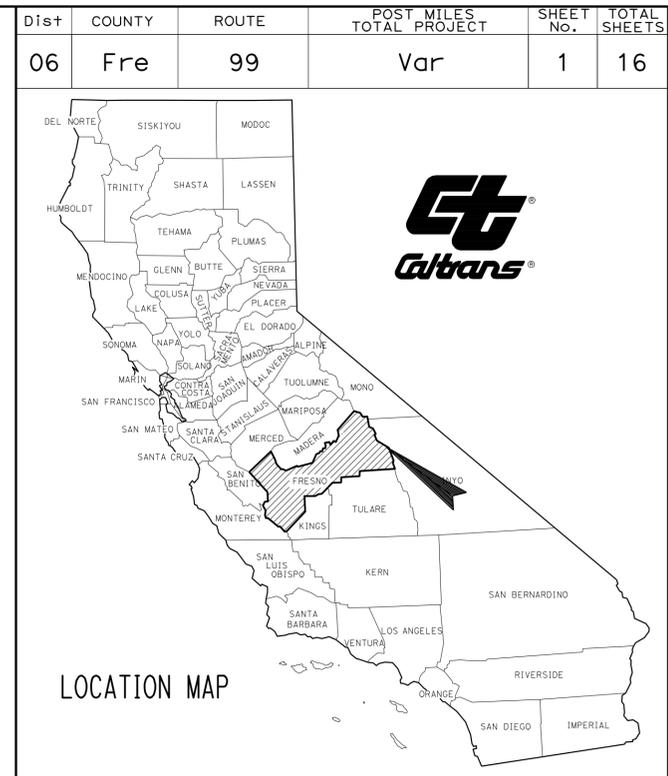
STRUCTURE PLANS

8-16	ROUTE 99 BRIDGES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

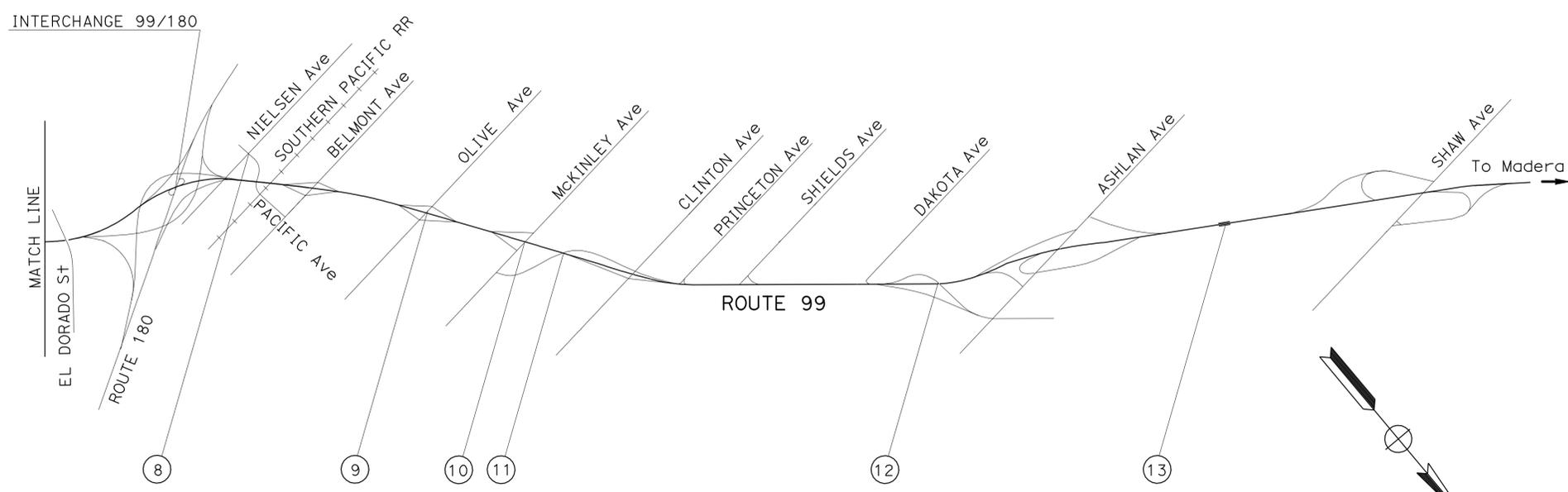
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN FRESNO COUNTY  
IN AND NEAR FRESNO  
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION

Loc	PM	DESCRIPTION	BRIDGE No.
①	15.49	CHESTNUT AVENUE OC (METHACRYLATE, JOINT SEALS)	42-0206
②	17.26	NORTH AVENUE OC (METHACRYLATE)	42-0210
③	17.65	ORANGE AVENUE OC (METHACRYLATE)	42-0211
④	19.20	CHURCH AVENUE OC (METHACRYLATE)	42-0214
⑤	20.55	TULARE STREET OC (METHACRYLATE, JOINT SEALS)	42-0169
⑥	20.92	TUOLUMNE STREET OC (METHACRYLATE, JOINT SEALS)	42-0171
⑦	21.01	STANISLAUS STREET OC (JOINT SEALS)	42-0172
⑧	22.39	PACIFIC AVENUE OC (METHACRYLATE)	42-0189
⑨	23.30	OLIVE AVENUE OC (METHACRYLATE, JOINT SEALS)	42-0187
⑩	23.90	McKINLEY AVENUE UC (METHACRYLATE, JOINT SEALS)	42-0181
⑪	24.20	SB 99 OFF-RAMP TO MOTEL DRIVE Sep (JOINT SEALS, APPROACH SLABS)	42-0182
⑫	26.22	SB 99 ON-RAMP BY DAKOTA Ave/99 Sep (JOINT SEALS)	42-0148
⑬	27.31	BIOLA JUNCTION Br (JOINT SEALS, APPROACH SLABS)	42-0131R



PROJECT MANAGER  
BILL MOSES  
DESIGN ENGINEER  
HUMBERTO ALMAGUER

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

NO SCALE

Humberto Almaguer 03/16/09  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

January 19, 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. **06-OG4304**

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	36" x 36"	ROAD WORK AHEAD	1- 4" x 6"	22
(B)	G20-2	36" x 18"	END ROAD WORK	1- 4" x 4"	20

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

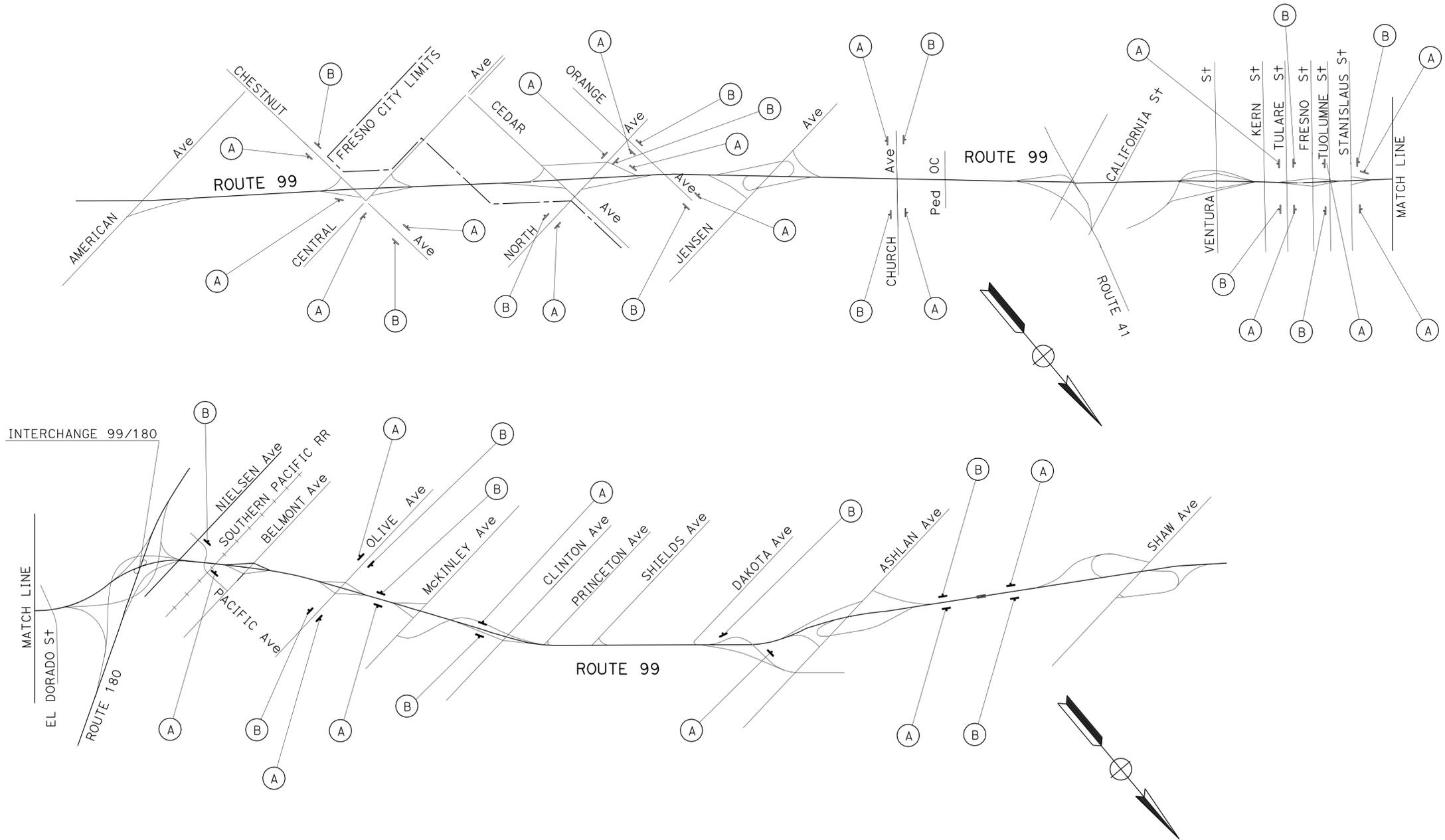
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	Var	2	16

Humberto Almaguer 01/07/09  
 REGISTERED CIVIL ENGINEER DATE

1-19-10  
 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  
 HUBERTO ALMAGUER  
 No. 65167  
 Exp. 9/30/11  
 CIVIL  
 STATE OF CALIFORNIA



NO SCALE

### CONSTRUCTION AREA SIGNS CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR  
 FRANK GONZALEZ

CALCULATED-DESIGNED BY  
 CHECKED BY

RENE SIQUEIROS  
 HUMBERTO ALMAGUER

REVISED BY  
 DATE REVISED

REVISIONS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	Var	3	16

*Humberto Almaguer* 8/17/09  
REGISTERED CIVIL ENGINEER DATE

1-19-10  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
HUMBERTO ALMAGUER  
No. 65167  
Exp. 9/30/11  
CIVIL  
STATE OF CALIFORNIA

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

**PAVEMENT DELINEATION QUANTITIES**

Loc	DETAIL No.	PAVEMENT MARKER (RETRO-REFLECTIVE)			THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	REMOVE PAVEMENT MARKER (N)	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	THERMOPLASTIC PAVEMENT MARKING	
		TYPE D (YELLOW TWO WAY)	TYPE G (CLEAR ONE WAY)	TYPE H (YELLOW ONE WAY)				DESCRIPTION	SQFT
		EA	EA	EA					
①	22	28			310	120			
②	22	26			280				
③	22	30			320				
④	22	26			280				
	38		18		180				
	39				1100				
⑤	29	18			700		700		
	39				350				
⑥	12		8		320				
⑧	22	12			120				
	12		8		260			1-TYPE IV (L) ARROW 15	
	22	14			140				
⑩	38		6		80				
	12		14		560				
	25			4	140				
⑪	27B				140				
	12		2		60				
⑬	27B				30				
	12		2		60				
	25			2	60				
27B				60					
SUBTOTAL		154	58	6	5550		700	15	
TOTAL			218		5550		700	15	

**SUMMARY OF QUANTITIES  
Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

RENE SIQUEIROS  
HUMBERTO ALMAGUER

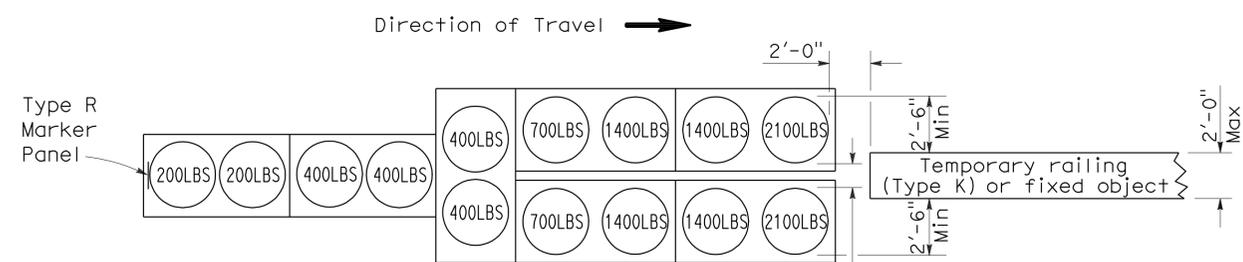
REVISOR  
DATE

FUNCTIONAL SUPERVISOR  
FRANK GONZALEZ

DESIGNED BY  
CHECKED BY

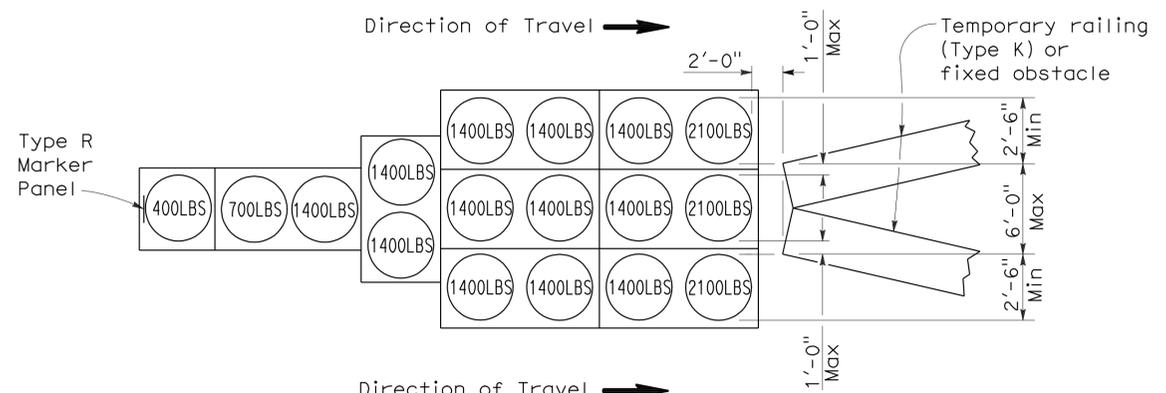
To accompany plans dated 1-19-10

2006 REVISED STANDARD PLAN RSP T1A



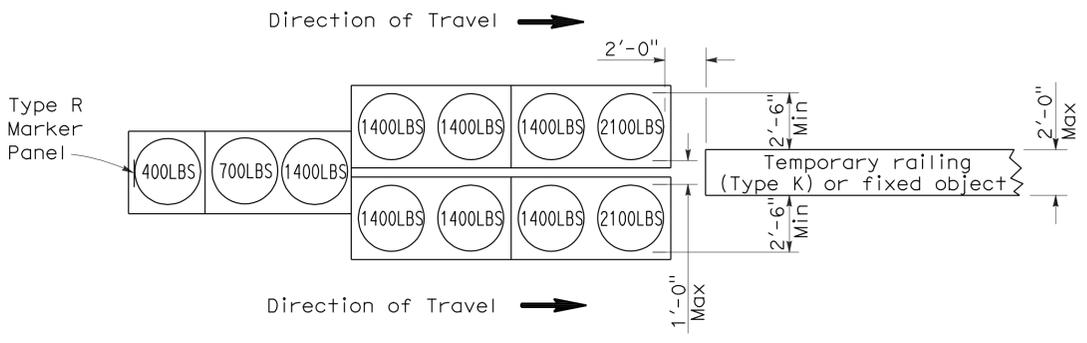
**ARRAY 'TU14'**

Approach speed 45 mph or more



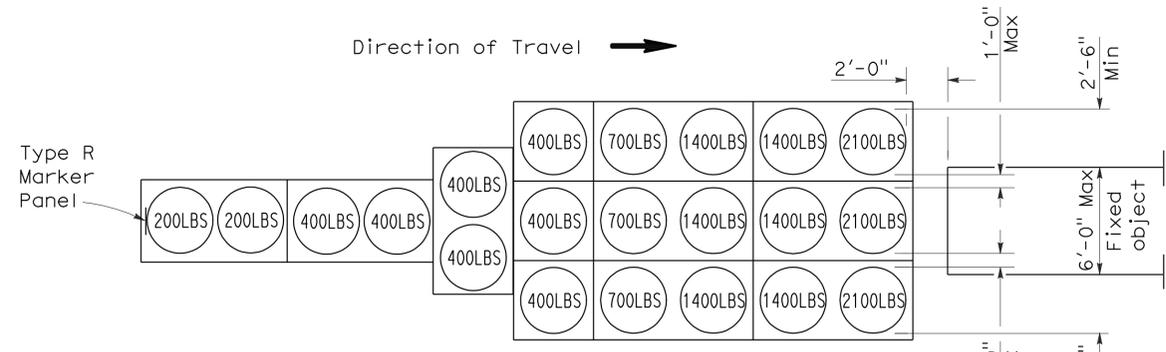
**ARRAY 'TU17'**

Approach speed less than 45 mph



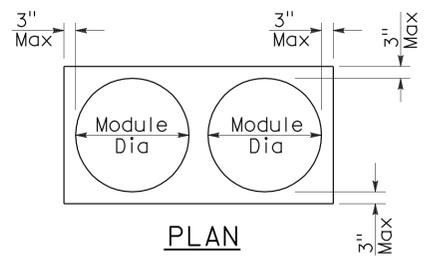
**ARRAY 'TU11'**

Approach speed less than 45 mph

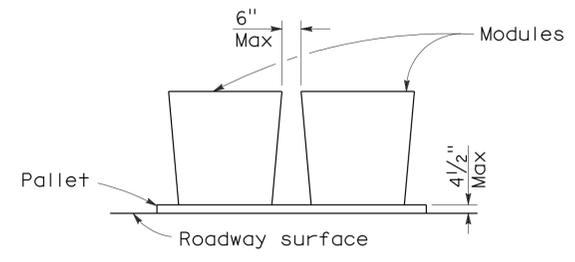


**ARRAY 'TU21'**

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

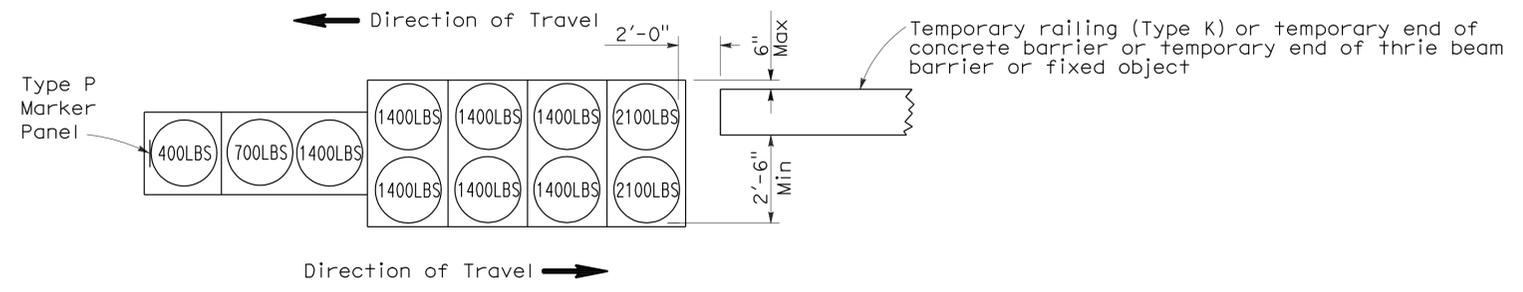
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

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.

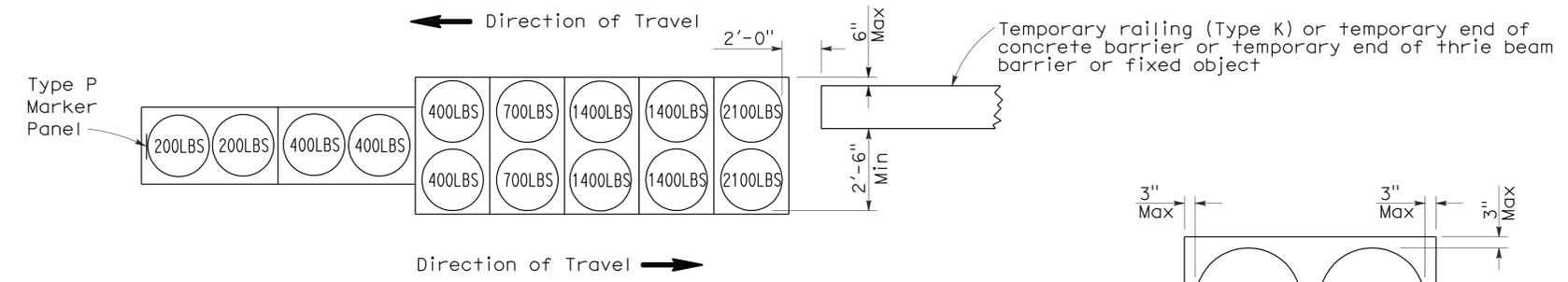
**REVISED STANDARD PLAN RSP T1A**

To accompany plans dated 1-19-10



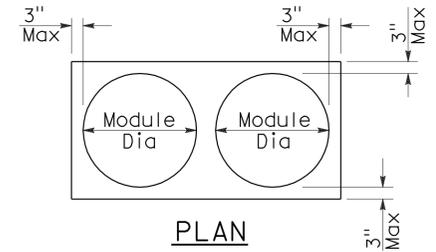
**ARRAY 'TB11'**

Approach speed less than 45 mph

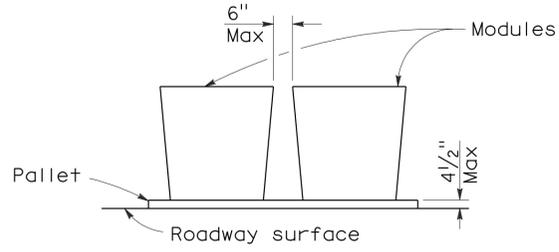


**ARRAY 'TB14'**

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
06	Fre	99	Var	6	16

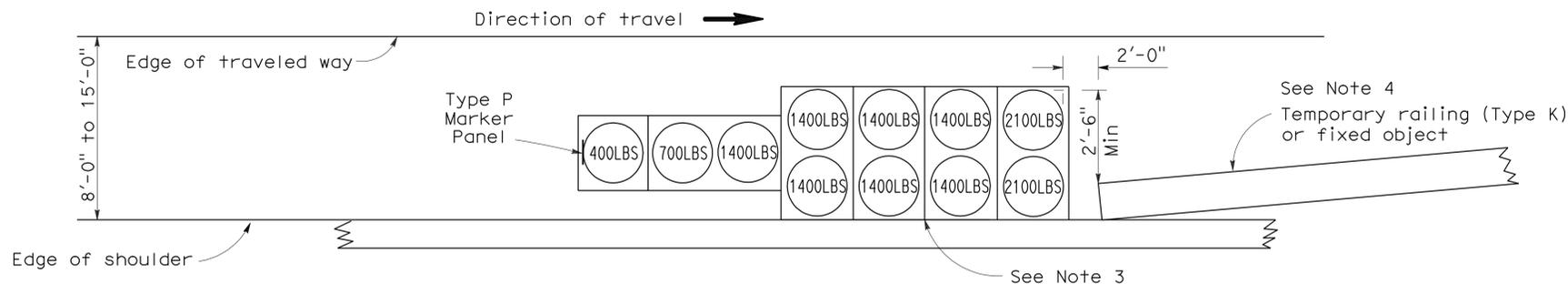
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

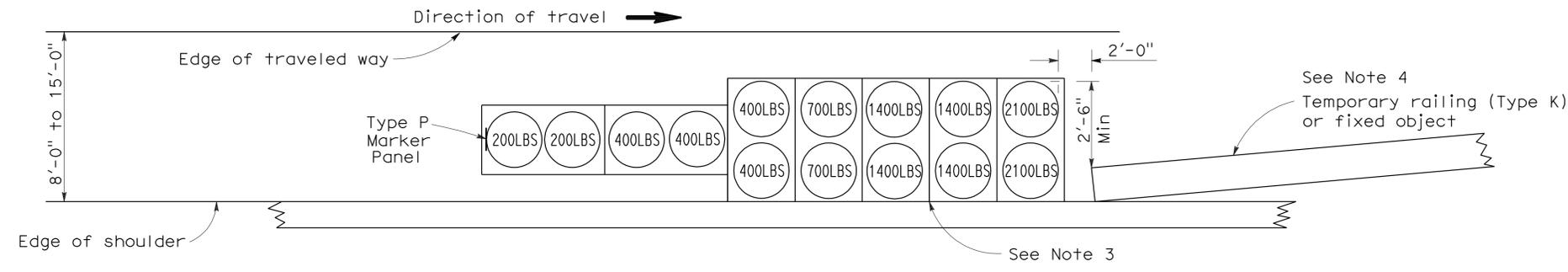
*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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.

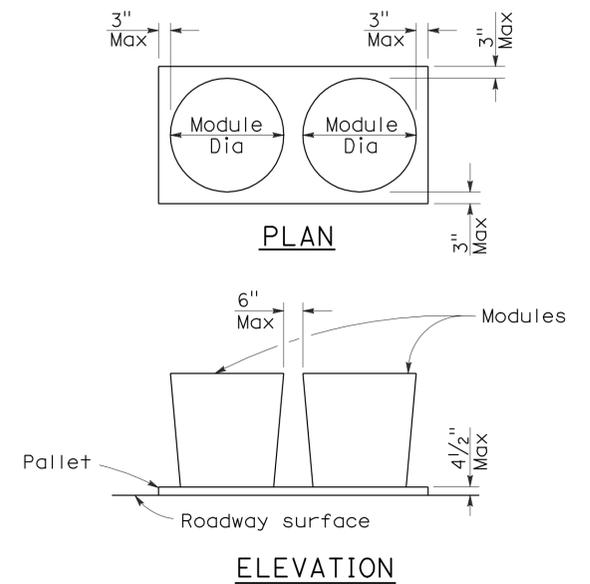
To accompany plans dated 1-19-10



**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:**

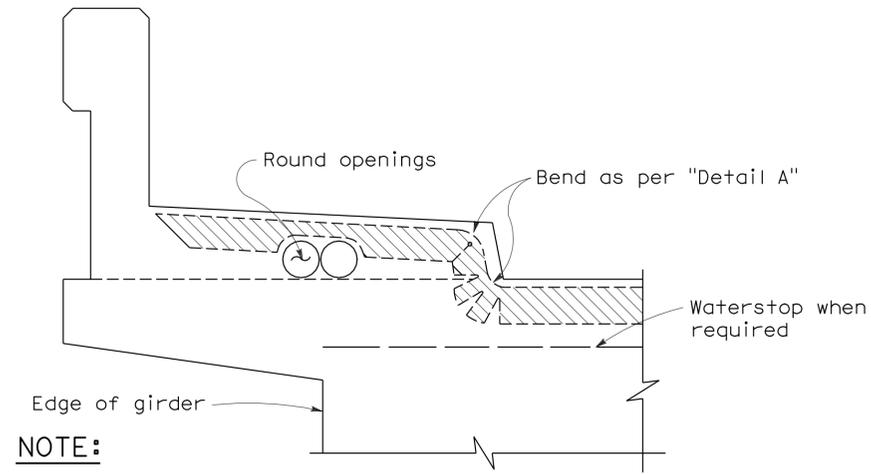
- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic 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.

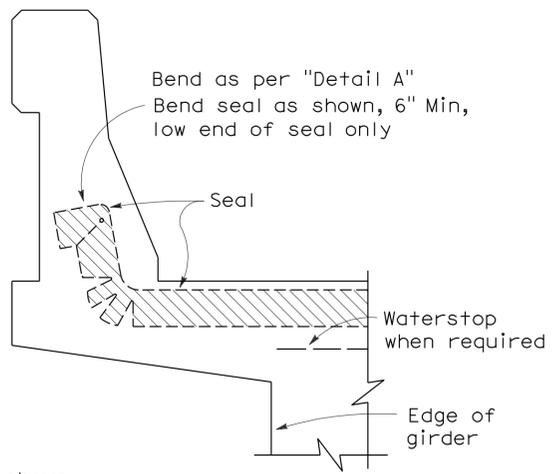
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

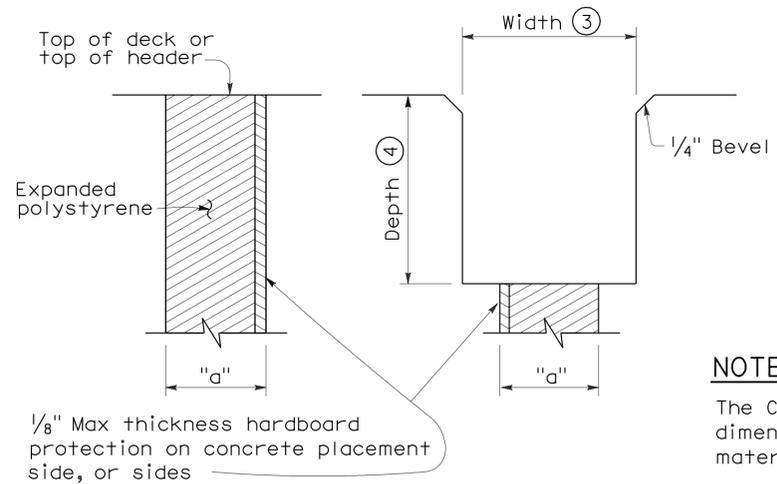


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



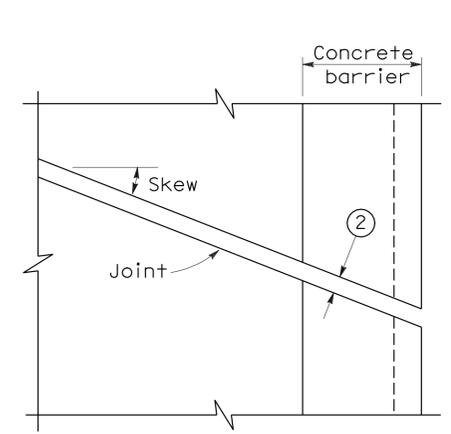
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

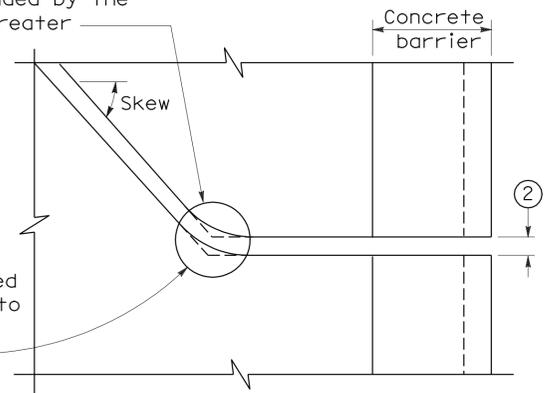
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



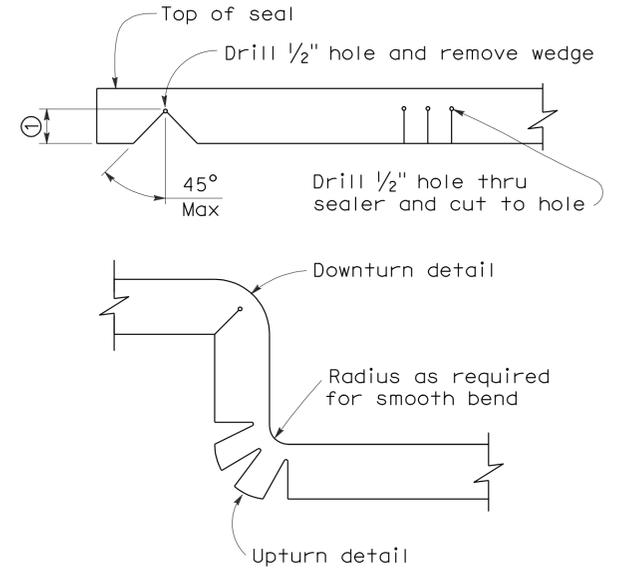
**PLAN OF JOINT (SKEW ≤ 20°)**

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



**PLAN OF JOINT (SKEW > 20°)**

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



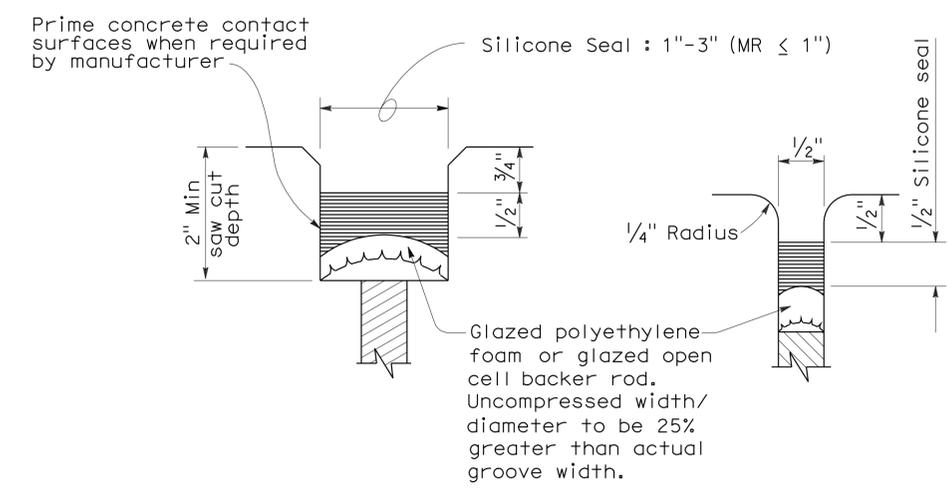
**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) 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

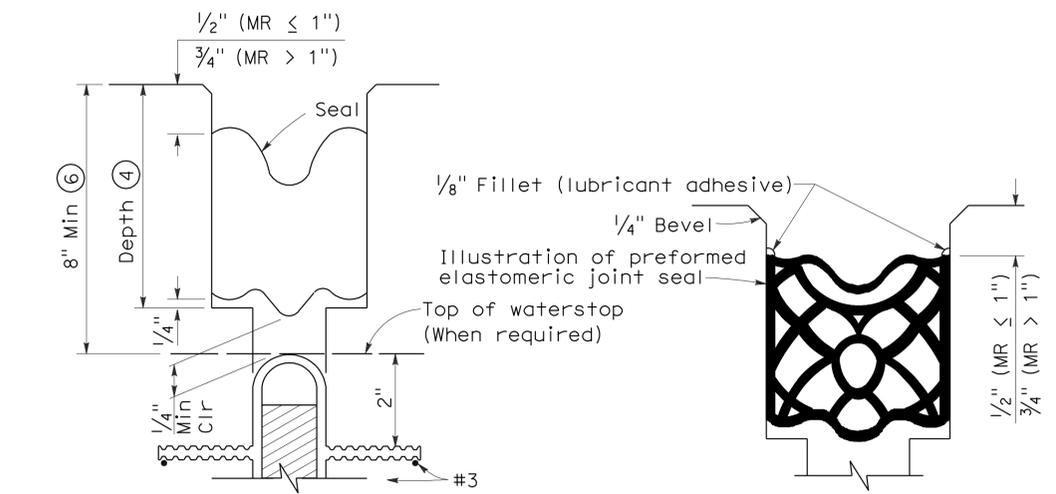


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP B6-21**

2006 REVISED STANDARD PLAN RSP B6-21

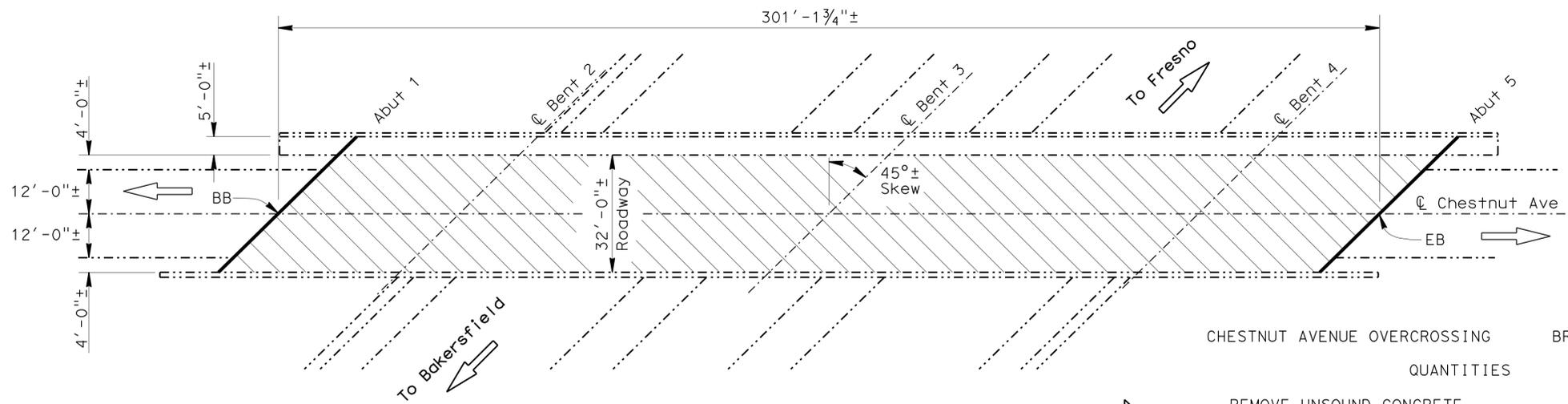
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	8	16

Charles R. Hutchinson  
 REGISTERED CIVIL ENGINEER  
 DATE 7-09-09

1-19-10  
 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. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA



**CHESTNUT AVENUE OVERCROSSING**  
 BR. NO. 42-0206, RTE 99, PM 15.49  
 1"=20'

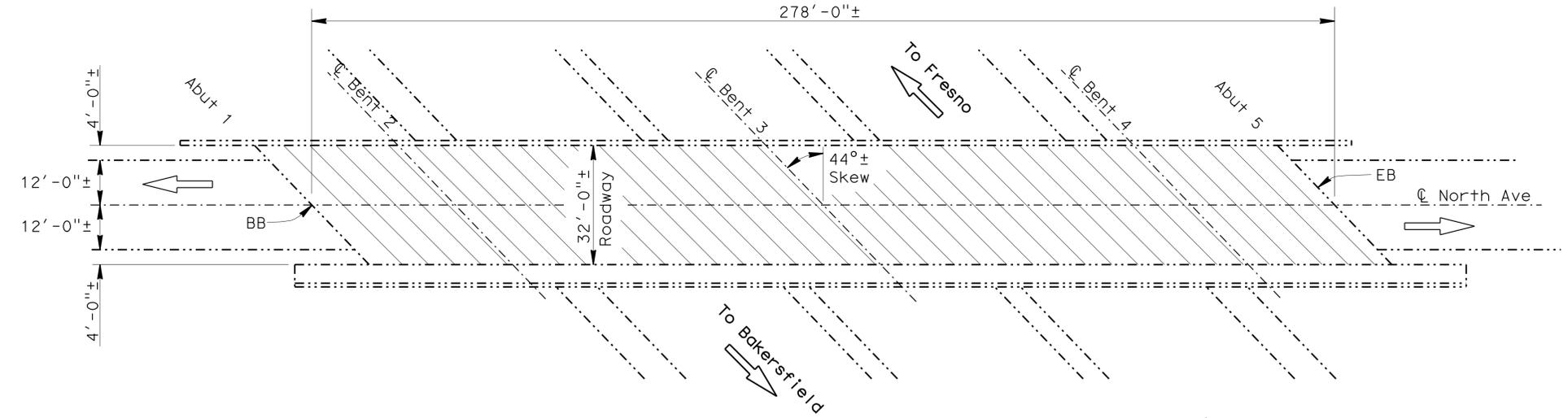


CHESTNUT AVENUE OVERCROSSING BR NO. 42-0206

QUANTITIES

REMOVE UNSOUND CONCRETE	24	CF
CLEAN BRIDGE DECK	9,638	SQFT
CLEAN EXPANSION JOINT	106	LF
RAPID SETTING CONCRETE (PATCH)	24	CF
CORE TREATED BRIDGE DECK	8	EA
JOINT SEAL (MR 1/2")	106	LF
TREAT BRIDGE DECK	9,638	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	107	GAL

- Notes: (Apply to this sheet only)
- Indicates existing.
  - Indicates location of remove existing joint seal and place new joint seal. For details, see JOINT SEAL DETAILS sheet.
  - ▨ Indicates limits of clean and treat existing concrete deck with resin and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



**NORTH AVENUE OVERCROSSING**  
 BR. NO. 42-0210, RTE 99, PM 17.26  
 1"=20'



NORTH AVENUE OVERCROSSING BR NO. 42-0210

QUANTITIES

REMOVE UNSOUND CONCRETE	22	CF
CLEAN BRIDGE DECK	8,896	SQFT
RAPID SETTING CONCRETE (PATCH)	22	CF
CORE TREATED BRIDGE DECK	8	EA
TREAT BRIDGE DECK	8,896	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	100	GAL

**INDEX TO PLANS**

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3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	JOINT SEAL DETAILS
8	MISCELLANEOUS DETAILS
9	STRUCTURE APPROACH SLAB TYPE R(30D)

**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.

 DESIGN ENGINEER 7-09-09	DESIGN	By Franz Espinoza	CHECKED Charles Hutchinson	LAYOUT	By Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	<b>ROUTE 99 BRIDGES</b> <b>GENERAL PLAN NO. 1</b>
	DETAILS	By Trung Lam	CHECKED Charles Hutchinson	SPECIFICATIONS	By Xiahong Li	CHECKED Xiahong Li			POST MILE	VARIES	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 06 EA OG4301	REVISION DATES 10-29-08   10-30-08   1-06-09   1-19-09   1-24-09   01-07-09   7-09-09		SHEET 1 OF 9

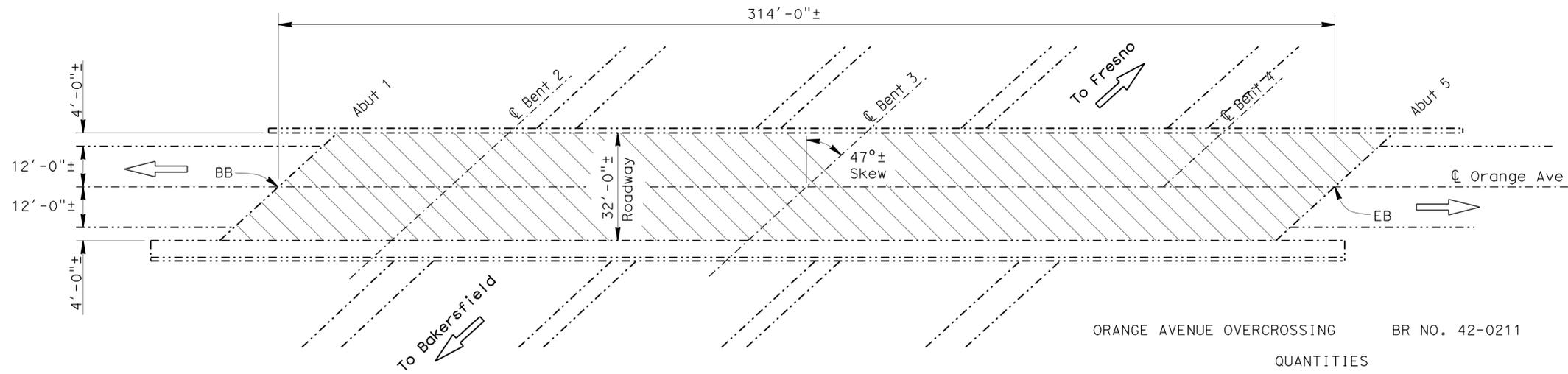
FILE => 06-0g4301\_01\_gp1.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	9	16

*Charles R. Hutchinson* 7-09-09  
REGISTERED CIVIL ENGINEER DATE

1-19-10  
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.



### ORANGE AVENUE OVERCROSSING

BR. NO. 42-0211, RTE 99, PM 17.65  
1"=20'

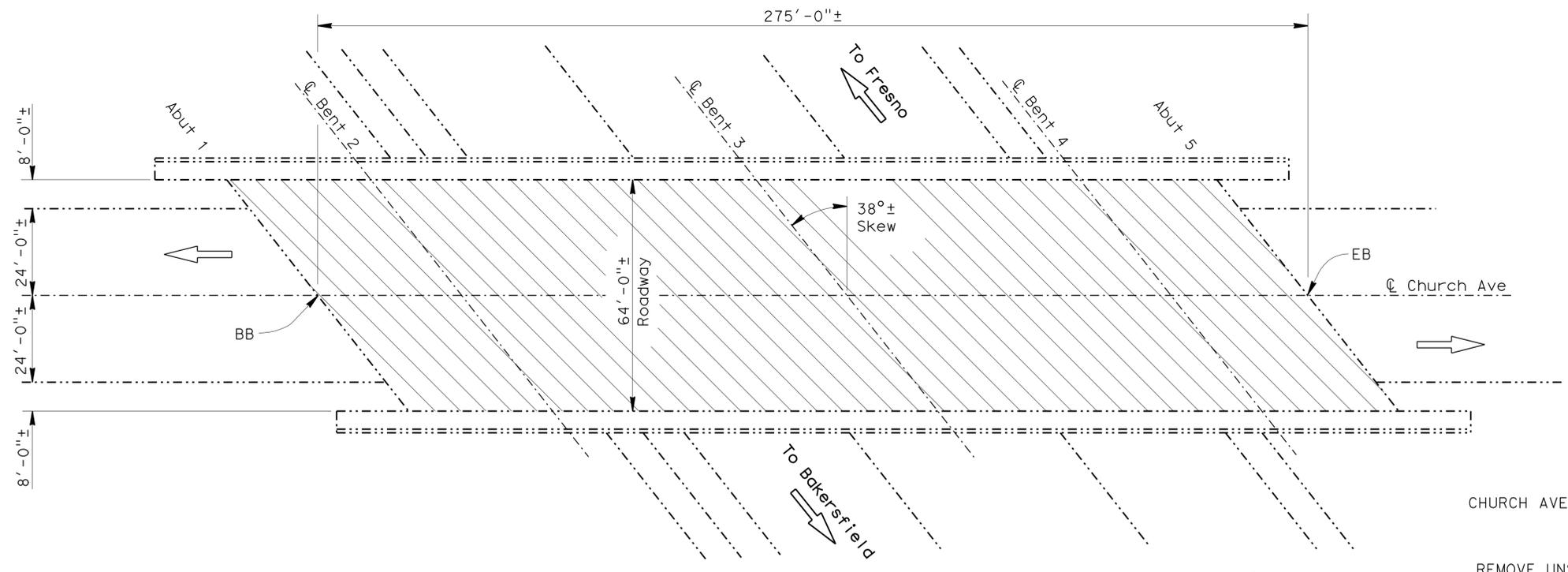


ORANGE AVENUE OVERCROSSING BR NO. 42-0211

#### QUANTITIES

REMOVE UNSOUND CONCRETE	25	CF
CLEAN BRIDGE DECK	10,048	SQFT
RAPID SETTING CONCRETE (PATCH)	25	CF
CORE TREATED BRIDGE DECK	8	EA
TREAT BRIDGE DECK	10,048	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	112	GAL

- Notes: (Apply to this sheet only)
- - - - - Indicates existing.
  - Indicates limits of clean and treat existing concrete deck with resin and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



### CHURCH AVENUE OVERCROSSING

BR. NO. 42-0214, RTE 99, PM 19.20  
1"=20'



CHURCH AVENUE OVERCROSSING BR NO. 42-0214

#### QUANTITIES

REMOVE UNSOUND CONCRETE	44	CF
CLEAN BRIDGE DECK	17,600	SQFT
RAPID SETTING CONCRETE (PATCH)	44	CF
CORE TREATED BRIDGE DECK	8	EA
TREAT BRIDGE DECK	17,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	197	GAL

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

*Michael J. Lee* 7-09-09  
DESIGN ENGINEER

DESIGN	BY Franz Espinoza	CHECKED Charles Hutchinson	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson
DETAILS	BY Trung Lam	CHECKED Charles Hutchinson	SPECIFICATIONS	BY Xiahong Li	CHECKED Xiahong Li
QUANTITIES	BY Charles Hutchinson	CHECKED Charles Hutchinson			

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIOUS

ROUTE 99 BRIDGES  
GENERAL PLAN NO. 2

CU 06  
EA OG4301

REVISION DATES: 10-29-08, 11-06-08, 11-24-08, 01-07-09, 7-09-09

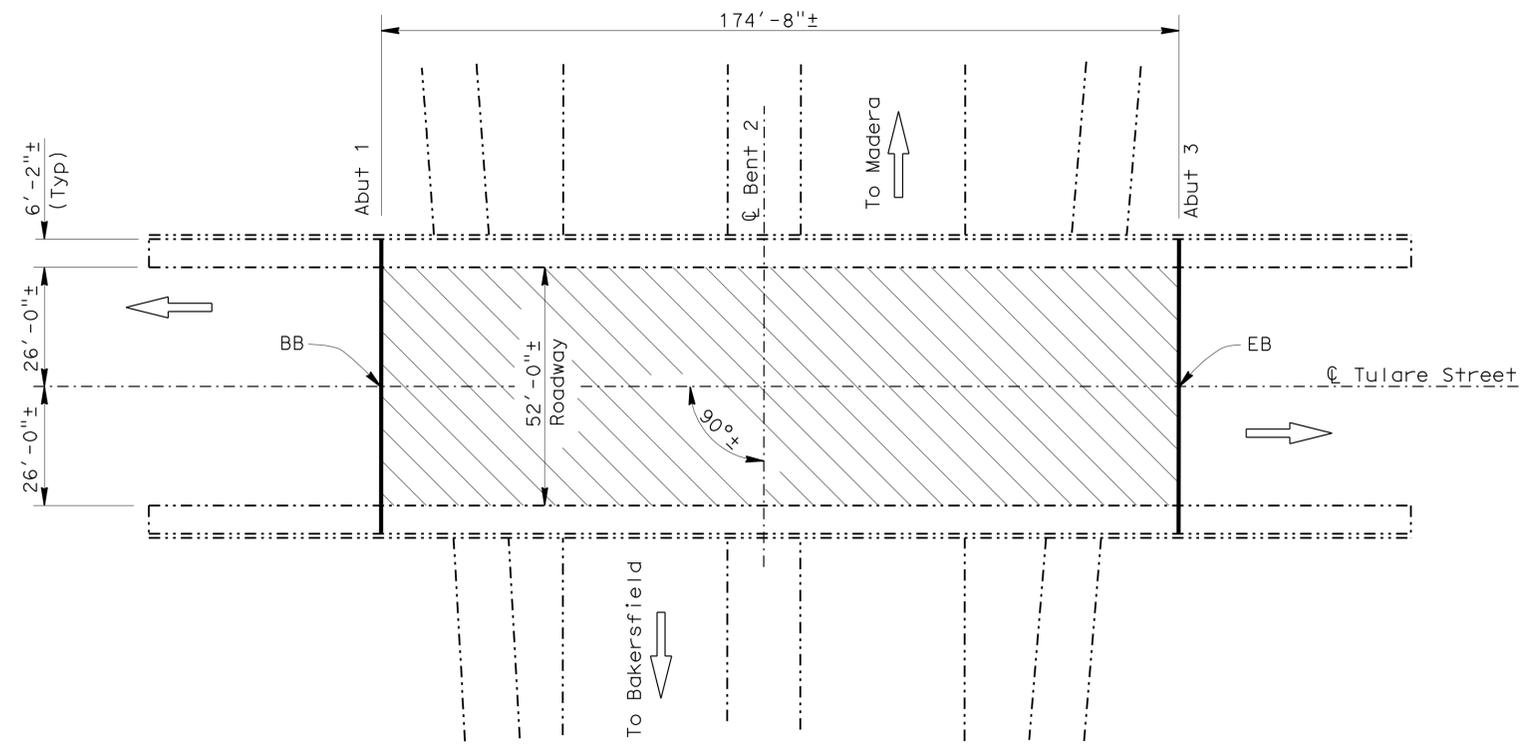
SHEET 2 OF 9

USERNAME => hrmikes DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	10	16

Charles R. Hutchinson  
 REGISTERED CIVIL ENGINEER DATE 7-09-09  
 1-19-10  
 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. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA



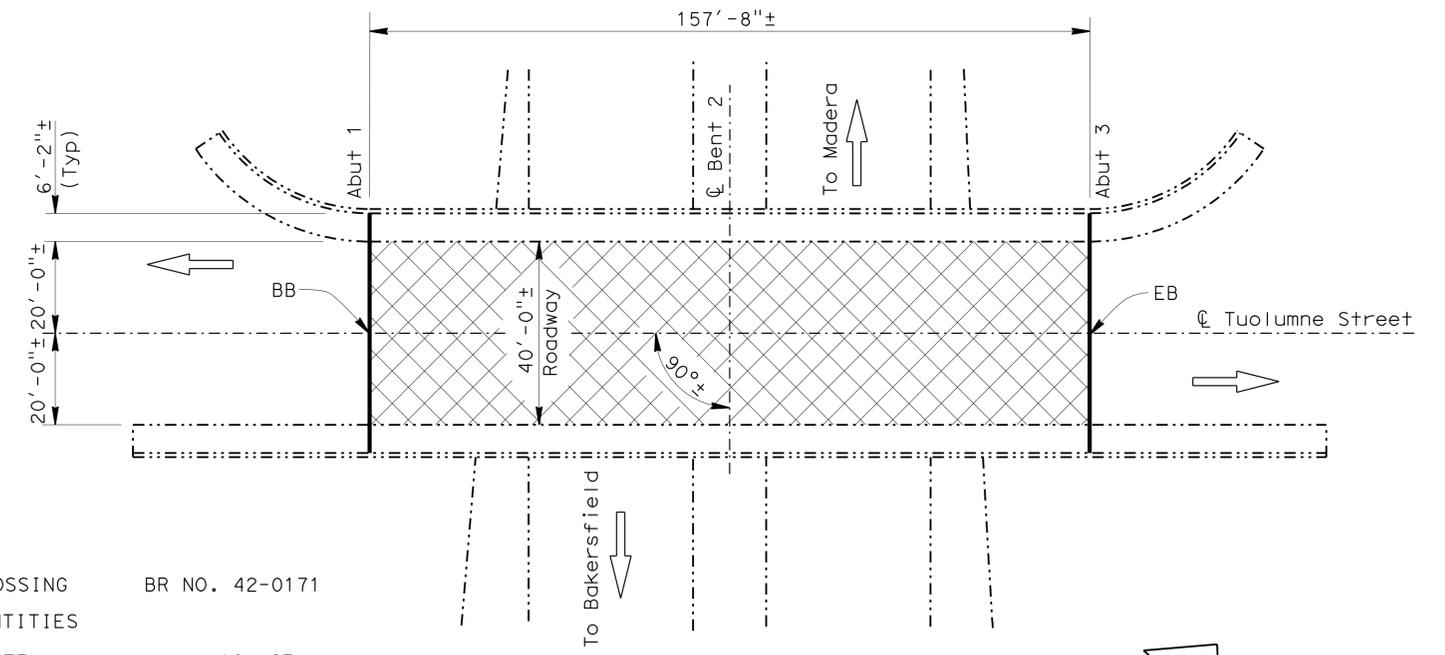
**TULARE STREET OVERCROSSING**  
 BR. NO. 42-0169, RTE 99, PM 20.55  
 1"=20'

TULARE STREET OVERCROSSING BR NO. 42-0169

QUANTITIES

REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,083	SQFT
CLEAN EXPANSION JOINT	129	LF
RAPID SETTING CONCRETE (PATCH)	23	CF
CORE TREATED BRIDGE DECK	4	EA
JOINT SEAL (MR 1/2")	129	LF
TREAT BRIDGE DECK	9,083	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	102	GAL

- Notes: (Apply to this sheet only)
- Indicates existing.
  - Indicates location of remove and replace existing joint seal.
  - [Hatched Box] Indicates limits of clean and treat existing concrete deck with resin and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
  - [Cross-hatched Box] Indicates limits of grind epoxy grit and concrete surface deck, clean and treat existing concrete deck with resin and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



TUOLUMNE STREET OVERCROSSING BR NO. 42-0171

QUANTITIES

REMOVE UNSOUND CONCRETE	16	CF
CLEAN BRIDGE DECK	6,307	SQFT
CLEAN EXPANSION JOINT	105	LF
RAPID SETTING CONCRETE (PATCH)	16	CF
GRIND EPOXY GRIT AND CONCRETE DECK SURFACE	6,307	SQFT
CORE TREATED BRIDGE DECK	4	EA
JOINT SEAL (MR 1/2")	105	LF
TREAT BRIDGE DECK	6,307	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	71	GAL

**TUOLUMNE STREET OVERCROSSING**  
 BR. NO. 42-0171, RTE 99, PM 20.92  
 1"=20'

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

 DESIGN ENGINEER 7-09-09	DESIGN	BY Franz Espinoza	CHECKED Charles Hutchinson	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	VARIOUS	<b>ROUTE 99 BRIDGES</b> GENERAL PLAN NO. 3
	DETAILS	BY Trung Lam	CHECKED Charles Hutchinson	SPECIFICATIONS	BY Xiahong Li	CHECKED Xiahong Li			POST MILE	VARIES	
	QUANTITIES	BY Charles Hutchinson	CHECKED Charles Hutchinson				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 06 EA OG4301	REVISION DATES	10-29-00 10-30-00 11-06-00 11-19-00 11-24-00 01-07-09 7-09-09	SHEET 3 OF 9

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

FILE => 06-0g4301\_03\_gp3.dgn

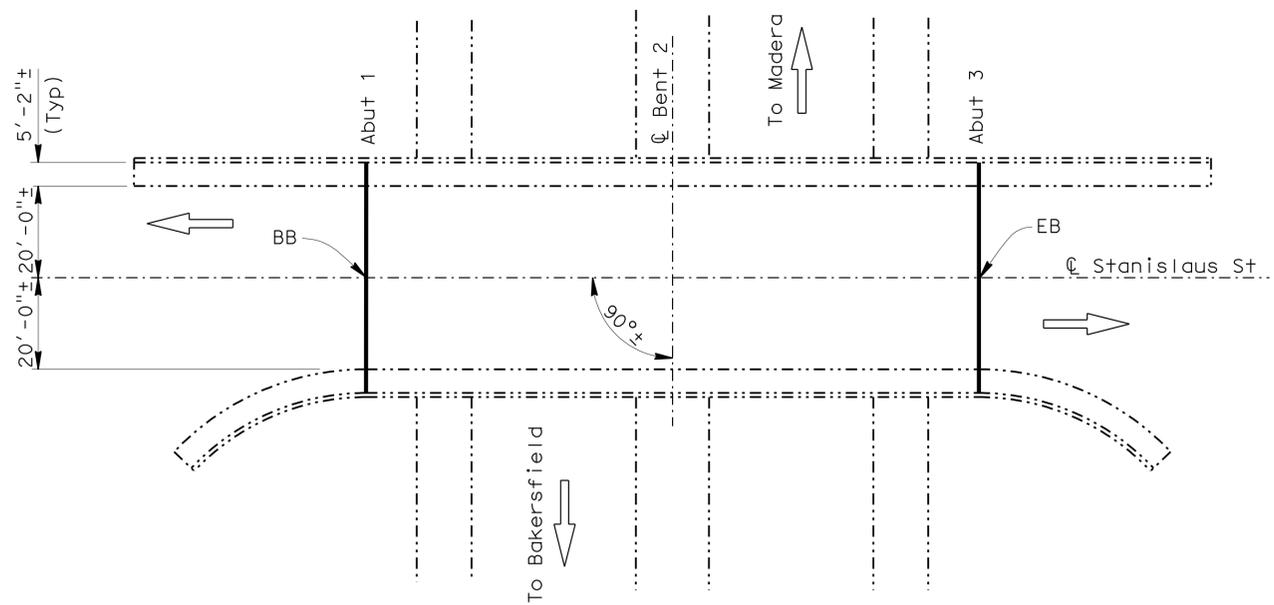
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	11	16

Charles R. Hutchinson  
 REGISTERED CIVIL ENGINEER  
 DATE 7-09-09  
 1-19-10  
 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.

STANISLAUS STREET OVERCROSSING BR NO. 42-0172

QUANTITIES

CLEAN EXPANSION JOINT	101	LF
JOINT SEAL (MR 1/2")	101	LF



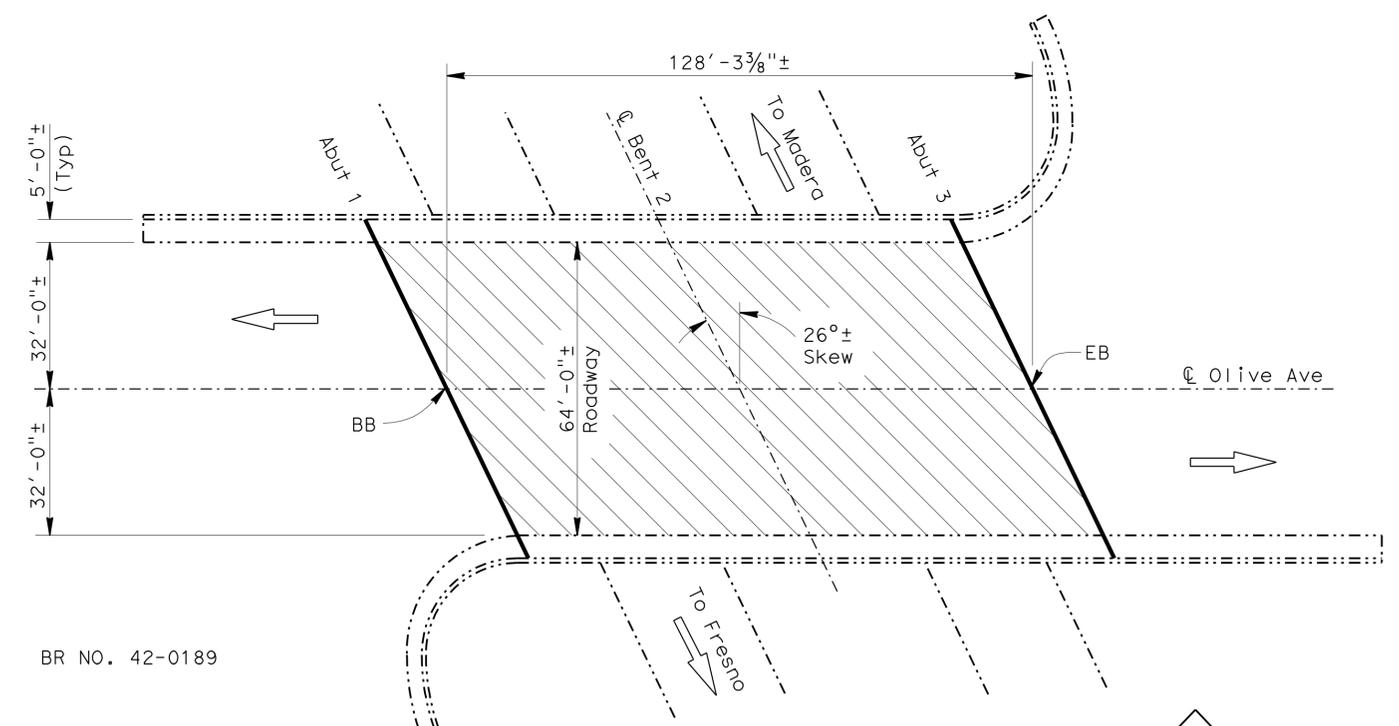
**STANISLAUS STREET OVERCROSSING**  
BR. NO. 42-0172, RTE 99, PM 21.01  
1"=20'

OLIVE AVENUE OVERCROSSING BR NO. 42-0187

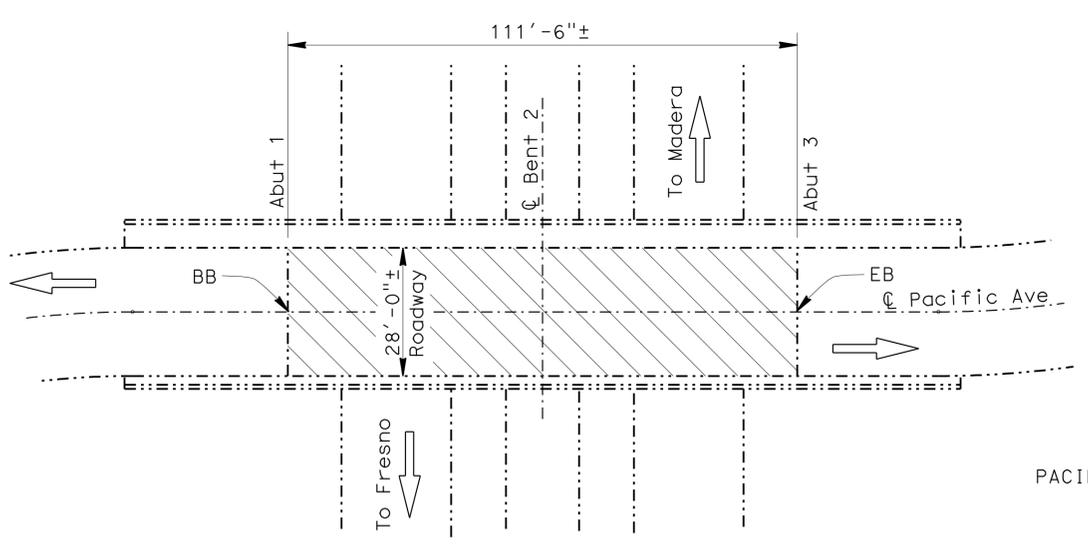
QUANTITIES

REMOVE UNSOUND CONCRETE	21	CF
CLEAN BRIDGE DECK	8,208	SQFT
CLEAN EXPANSION JOINT	165	LF
RAPID SETTING CONCRETE (PATCH)	21	CF
CORE TREATED BRIDGE DECK	4	EA
JOINT SEAL (MR 1/2")	165	LF
TREAT BRIDGE DECK	8,208	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	92	GAL

- Notes: (Apply to this sheet only)
- Indicates existing.
  - Indicates location of remove and replace existing joint seal.
  - ▨ Indicates limits of clean and treat existing concrete deck with resin and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



**OLIVE AVENUE OVERCROSSING**  
BR. NO. 42-0187, RTE 99, PM 23.30  
1"=20'



**PACIFIC AVENUE OVERCROSSING**  
BR. NO. 42-0189, RTE 99, PM 22.39  
1"=20'

PACIFIC AVENUE OVERCROSSING BR NO. 42-0189

QUANTITIES

REMOVE UNSOUND CONCRETE	8	CF
CLEAN BRIDGE DECK	3,122	SQFT
RAPID SETTING CONCRETE (PATCH)	8	CF
CORE TREATED BRIDGE DECK	4	EA
TREAT BRIDGE DECK	3,122	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	35	GAL

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

 DESIGN ENGINEER 7-09-09	DESIGN	By Franz Espinoza	CHECKED Charles Hutchinson	LAYOUT	By Trung Lam	CHECKED Charles Hutchinson	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	VARIOUS	<b>ROUTE 99 BRIDGES</b> GENERAL PLAN NO. 4
	DETAILS	By Trung Lam	CHECKED Charles Hutchinson	SPECIFICATIONS	By Xiahong Li	CHECKED Xiahong Li			POST MILE	VARIES	
	QUANTITIES	By Charles Hutchinson	CHECKED Charles Hutchinson				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 06 EA OG4301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-29-08   10-30-08   1-06-09   1-19-09   1-24-09   01-07-09   7-09-09	SHEET 4 OF 9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	12	16

*Charles R. Hutchinson* 7-09-09  
REGISTERED CIVIL ENGINEER DATE

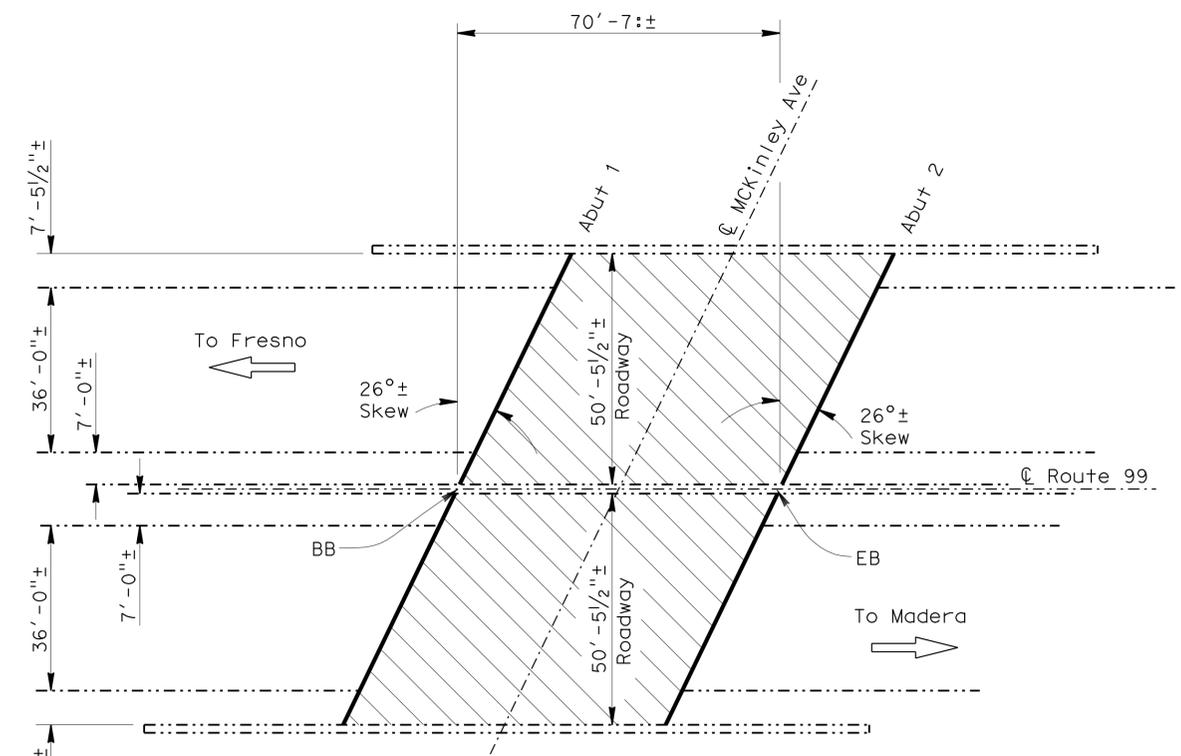
1-19-10  
PLANS APPROVAL DATE

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. 12-31-09  
CIVIL  
STATE OF CALIFORNIA

Notes: (Apply to this sheet only)

- Indicates existing.
- Indicates location of remove and replace existing joint seal.
- [Hatched Box] Indicates limits of clean and treat existing concrete deck with resin and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- [Cross-hatched Box] Indicates location of place new Structure Approach Slab Type R(30D).



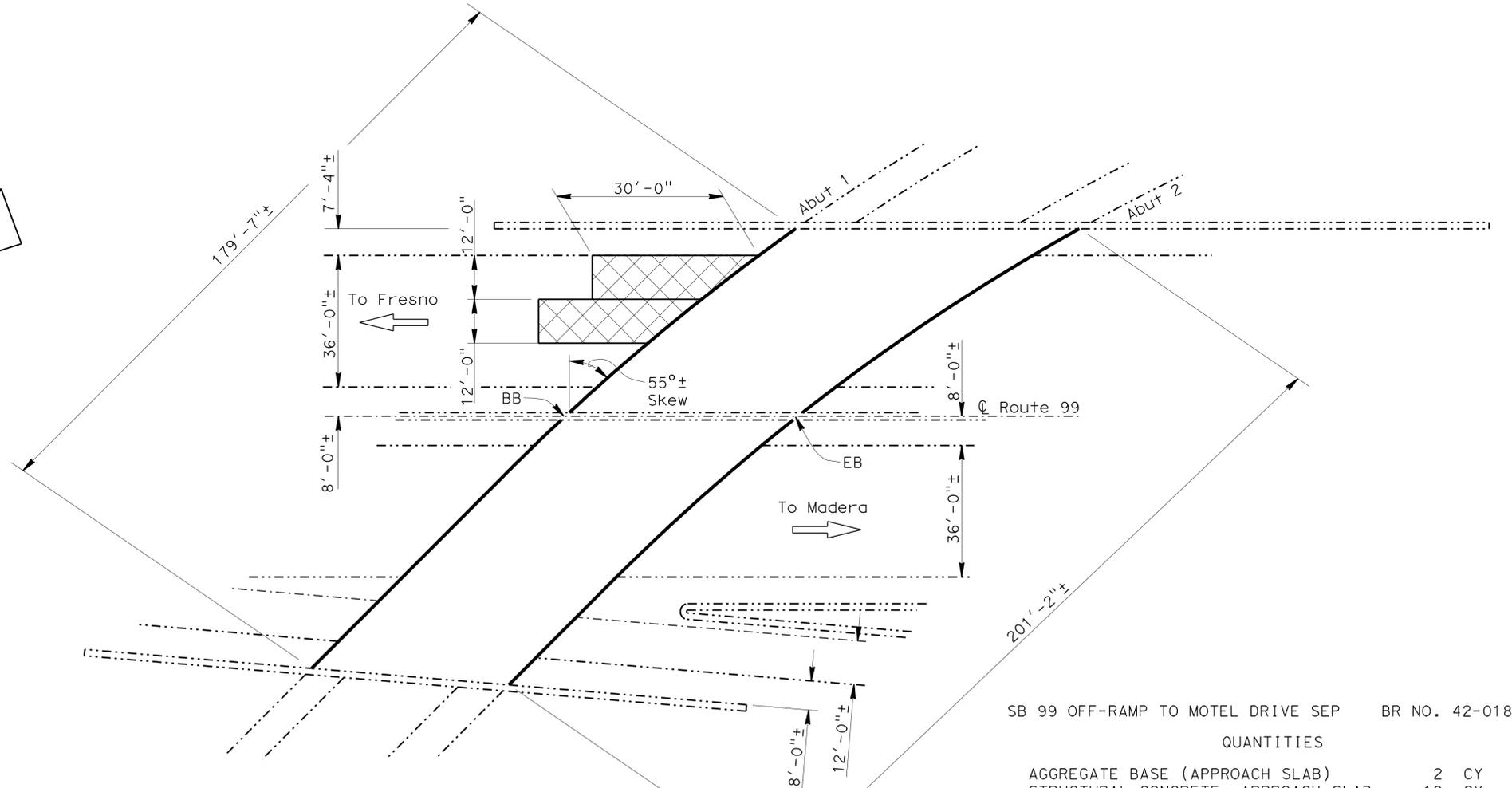
**MCKINLEY AVENUE OVERCROSSING**

BR. NO. 42-0181, RTE 99, PM 23.90  
1"=20'

MCKINLEY AVENUE OVERCROSSING BR NO. 42-0181

QUANTITIES

REMOVE UNSOUND CONCRETE	18	CF
CLEAN BRIDGE DECK	7,122	SQFT
CLEAN EXPANSION JOINT	226	LF
RAPID SETTING CONCRETE (PATCH)	18	CF
CORE TREATED BRIDGE DECK	2	EA
JOINT SEAL (MR 1/2")	226	LF
TREAT BRIDGE DECK	7,122	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	80	GAL
PUBLIC SAFETY PLAN		LUMP SUM



**SB 99 OFF-RAMP TO MOTEL DRIVE SEP**

BR. NO. 42-0182, RTE 99, PM 24.20  
1"=20'

SB 99 OFF-RAMP TO MOTEL DRIVE SEP BR NO. 42-0182

QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	2	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	19	CY
PAVING NOTCH EXTENSION	33	CF
CLEAN EXPANSION JOINT	340	LF
JOINT SEAL (MR 1/2")	382	LF

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

*Michael J. Lee* 7-09-09  
DESIGN ENGINEER

DESIGN	BY Franz Espinoza	CHECKED Charles Hutchinson
DETAILS	BY Trung Lam	CHECKED Charles Hutchinson
QUANTITIES	BY Charles Hutchinson	CHECKED Charles Hutchinson

LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson
SPECIFICATIONS	BY Xiahong Li	CHECKED Xiahong Li

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 99 BRIDGES**  
**GENERAL PLAN NO. 5**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 06  
EA 0G4301

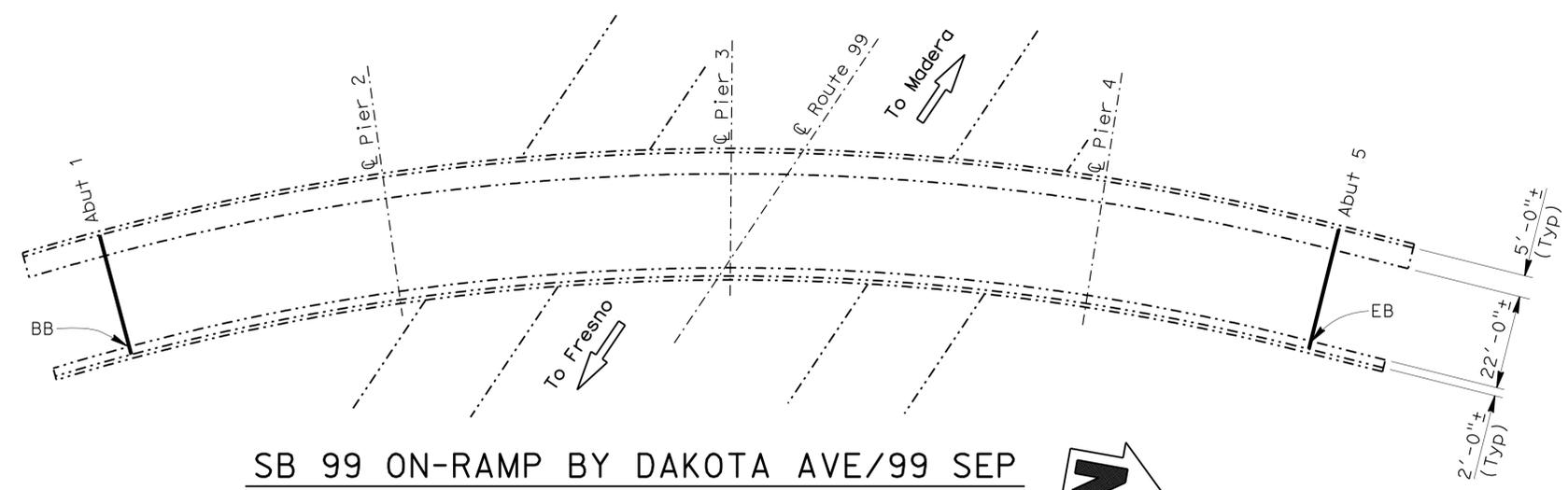
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 9
	10-29-08   11-30-08   1-06-09   1-24-09   01-07-09   7-09-09	

FILE => 06-0g4301\_05\_gp5.dgn

USERNAME => hrmikes DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 10:29

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	13	16

**Charles R. Hutchinson** 7-09-09  
 REGISTERED CIVIL ENGINEER DATE  
 1-19-10  
 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.



**SB 99 ON-RAMP BY DAKOTA AVE/99 SEP**

BR. NO. 42-0148, RTE 99, PM 26.22  
1"=20'

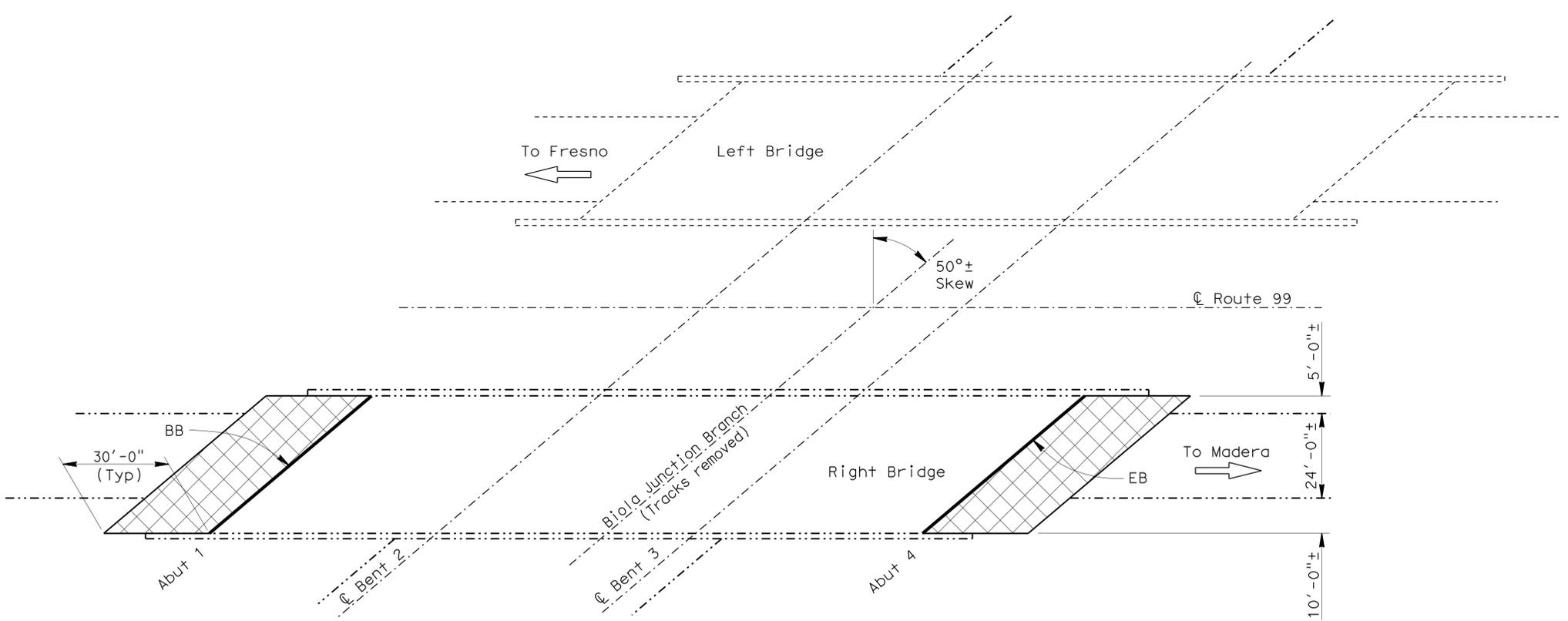


- Notes: (Apply to this sheet only)
- Indicates existing.
  - Indicates location of remove and replace existing joint seal.
  - ▨ Indicates location of place new Structure Approach Slab Type R(30D).

SB 99 OFF-RAMP BY DAKOTA AVE/99 SEP BR NO. 42-0148

QUANTITIES

CLEAN EXPANSION JOINT	58	LF
JOINT SEAL (MR 1/2")	58	LF



**BIOLA JUNCTION**

BR. NO. 42-0131R, RTE 99, PM 27.31  
1"=20'



BIOLA JUNCTION BR NO. 42-0131R

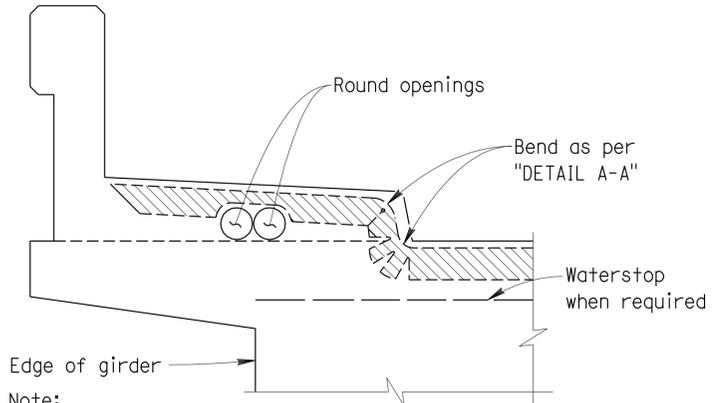
QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	9	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	87	CY
PAVING NOTCH EXTENSION	89	CF
JOINT SEAL (MR 1/2")	122	LF

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

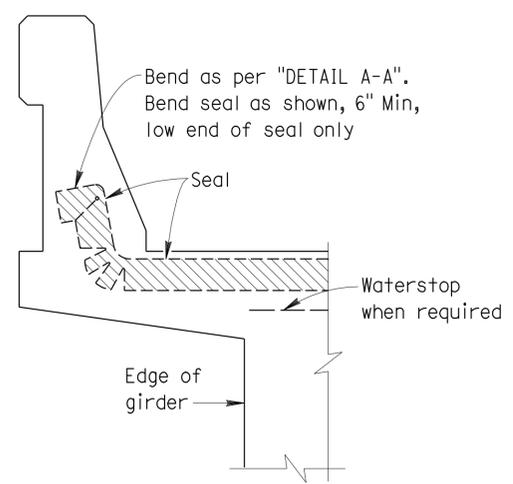
7-09-09 DESIGN ENGINEER	DESIGN	BY Franz Espinoza	CHECKED Charles Hutchinson	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 99 BRIDGES</b> GENERAL PLAN NO. 6	
	DETAILS	BY Trung Lam	CHECKED Charles Hutchinson	SPECIFICATIONS	BY Xiahong Li	CHECKED Xiahong Li			VARIOUS		
	QUANTITIES	BY Charles Hutchinson	CHECKED Charles Hutchinson					POST MILE			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 06 EA OG4301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
										SHEET 6 OF 9	

USERNAME => hrmikes DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 10:29

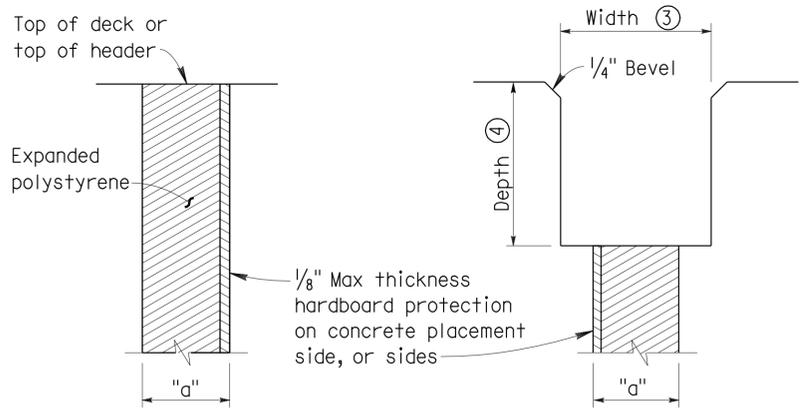


Note:  
Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



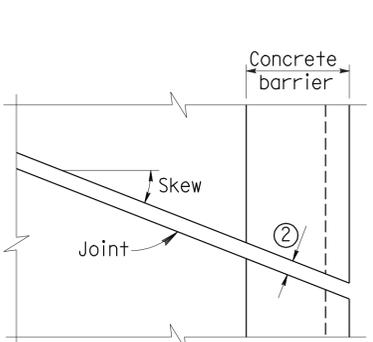
**CONCRETE BARRIER**



**FORMING DETAIL**

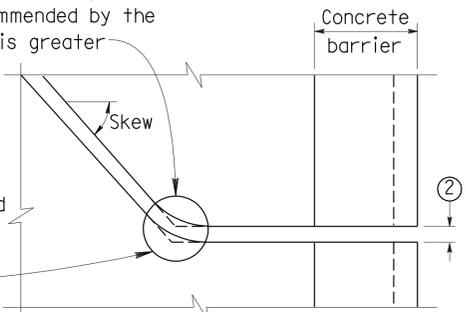
**SAWCUT DETAIL**

**JOINT SEAL DETAILS**



**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  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 sawcutting, this area may be blocked out and reconstructed to match sawcutting on both sides

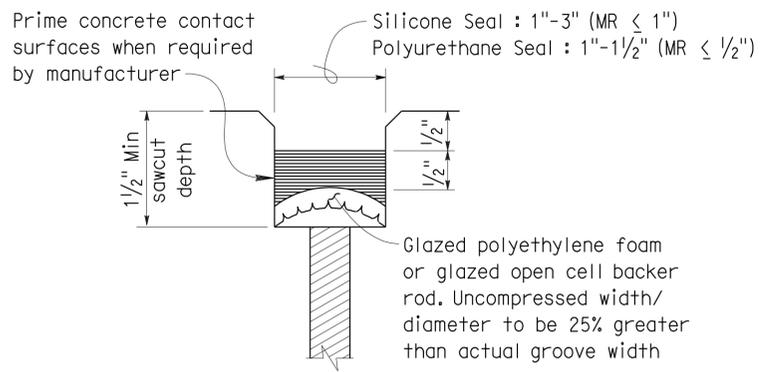
JOINT SEAL TABLE						
BRIDGE NUMBER	LOCATION	MINIMUM "MR" (in)	APPROXIMATE LENGTH (ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)	
42-0131R	Abut 1	BB	1/2	60.67	No	1.0
	Abut 4	EB	1/2	60.67	No	1.0
42-0148	Abut 1	BB	1/2	29.00	No	1.0
	Abut 5	EB	1/2	29.00	No	1.0
42-0169	Abut 1	BB	1/2	64.30	No	1.0
	Abut 3	EB	1/2	64.30	No	1.0
42-0171	Abut 1	BB	1/2	52.33	No	1.0
	Abut 3	EB	1/2	52.30	No	1.0
42-0172	Abut 1	BB	1/2	50.30	No	1.0
	Abut 3	EB	1/2	50.30	No	1.0
42-0181	Abut 1	BB	1/2	113.00	No	1.0
	Abut 2	EB	1/2	113.00	No	1.0
42-0182	Abut 1	BB	1/2	179.60	No	1.0
	Abut 2	EB	1/2	201.20	No	1.0
42-0187	Abut 1	BB	1/2	82.30	No	1.0
	Abut 3	EB	1/2	82.30	No	1.0
42-0206	Abut 1	BB	1/2	52.90	No	1.0
	Abut 5	EB	1/2	52.90	No	1.0

**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 1/2" 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 (W<sub>2</sub>) plus dimensions shown.
- MR (movement rating) as shown on other plan sheets.
- Other depths must be approved by the Engineer.

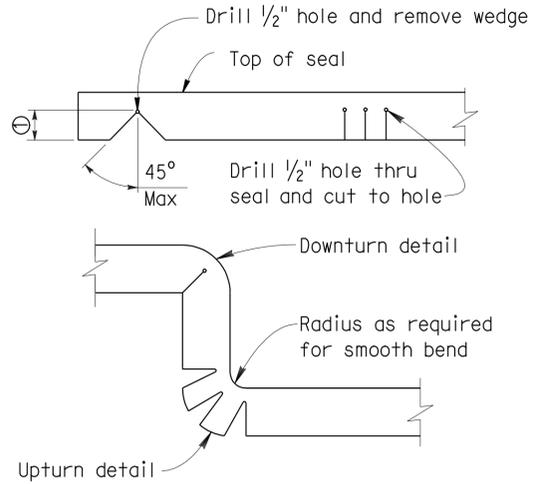
**DIMENSION "a" OF JOINT REQUIRED**

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



**TYPE A SEAL**

Movement rating :  
Polyurethane = 1/2" Max  
Silicone = 1" Max



**DETAIL A-A**

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

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	Var	15	16

*Charles R. Hutchinson* 7-09-09  
 REGISTERED CIVIL ENGINEER DATE

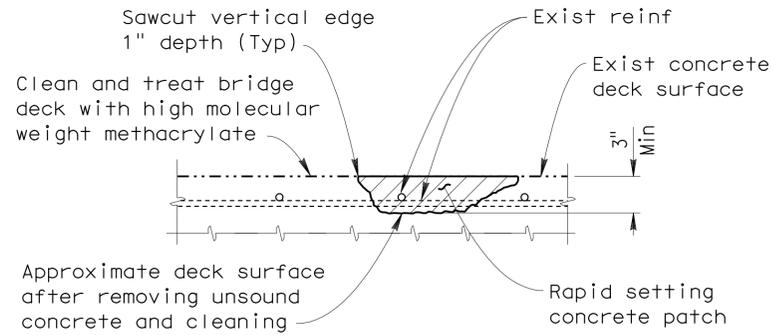
1-19-10  
 PLANS APPROVAL DATE

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.

DECK REPAIR TABLE			
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
CHESTNUT AVE OC	42-0206	1	3
NORTH AVE OC	42-0210	1	3
ORANGE AVE OC	42-0211	1	3
CHURCH AVE OC	42-0214	1	3
TULARE STREET OC	42-0169	1	3
TUOLUMNE STREET OC	42-0171	1	3
PACIFIC AVE OC	42-0189	1	3
OLIVE AVE OC	42-0187	1	3
MCKINLEY AVE OC	42-0181	1	3

**DECK REPAIR NOTES:**

- a) Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- b) It is the responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- c) When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
- d) The saw cut depth shall not exceed 1 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
- e) Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



**DECK REPAIR DETAIL**

Reinforcement may be encountered during deck concrete removal.  
NO SCALE

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

DESIGN	BY Franz Espinoza	CHECKED Charles Hutchinson
DETAILS	BY Trung Lam	CHECKED Charles Hutchinson
QUANTITIES	BY Charles Hutchinson	CHECKED Charles Hutchinson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

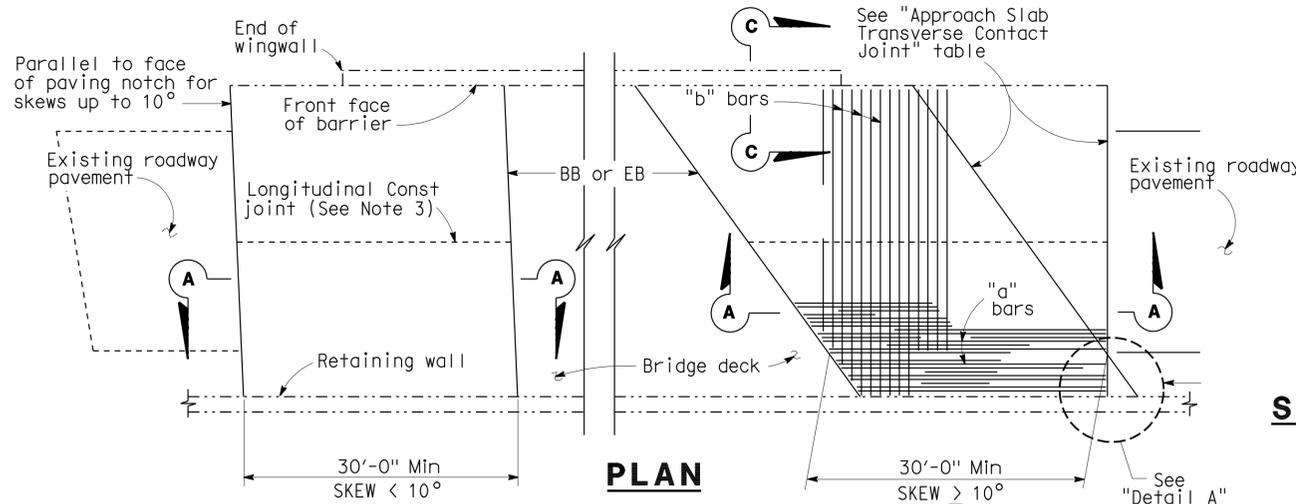
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 99 BRIDGES  
MISCELLANEOUS DETAILS

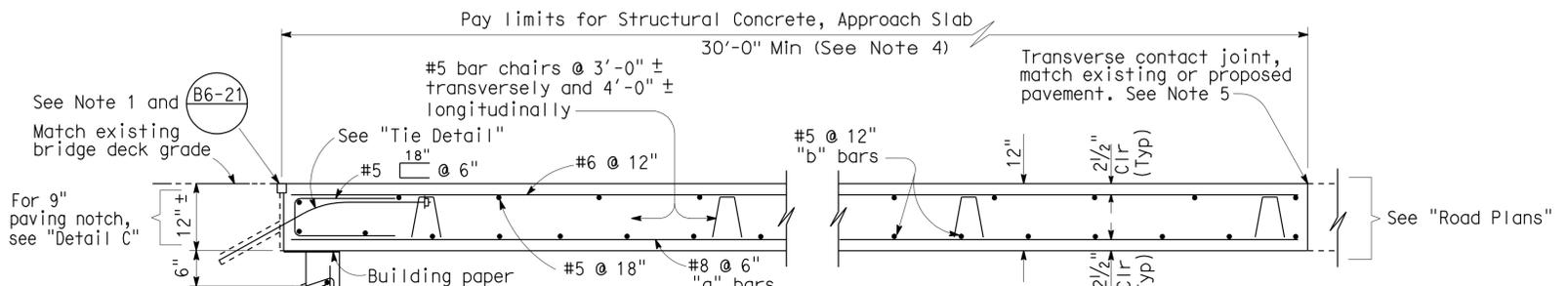
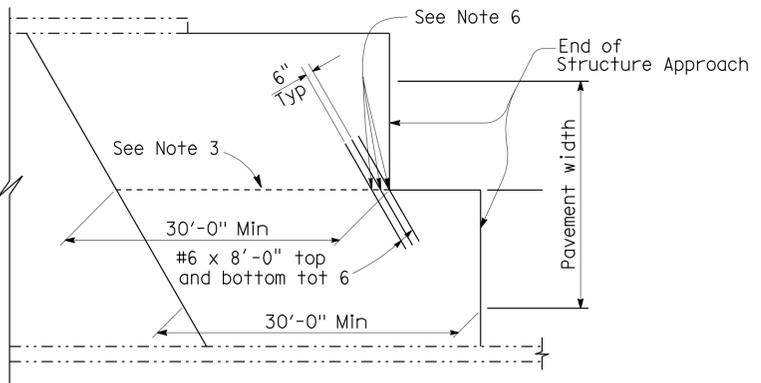
USERNAME => hrmikes DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 10:29

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	Var		16	16

Charles R. Hutchinson 7-09-09  
 REGISTERED CIVIL ENGINEER  
 1-19-10  
 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.

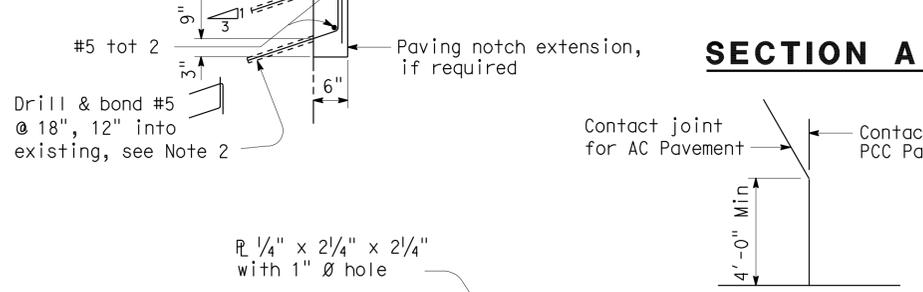


**STRUCTURE APPROACH - END STAGGER DETAIL**

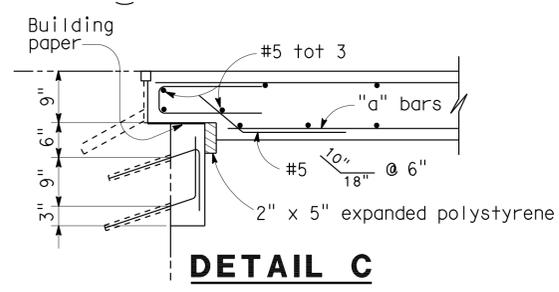


**SECTION A-A**

**SECTION C-C**

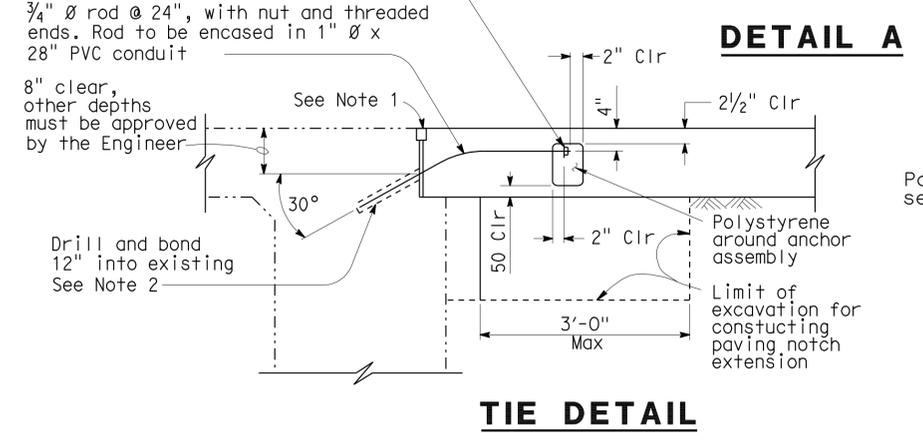


**DETAIL A**

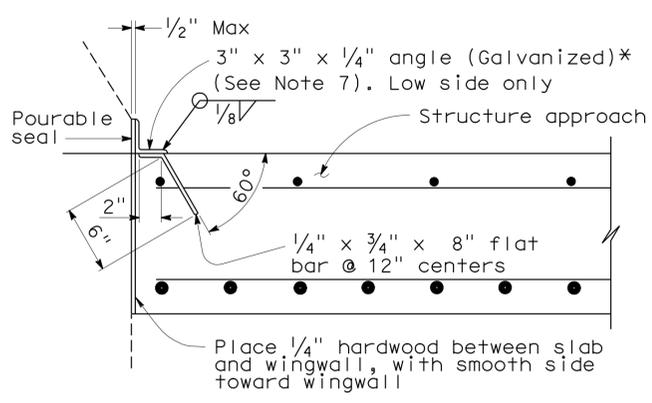


**DETAIL C**

**BAR CHAIR DETAIL**

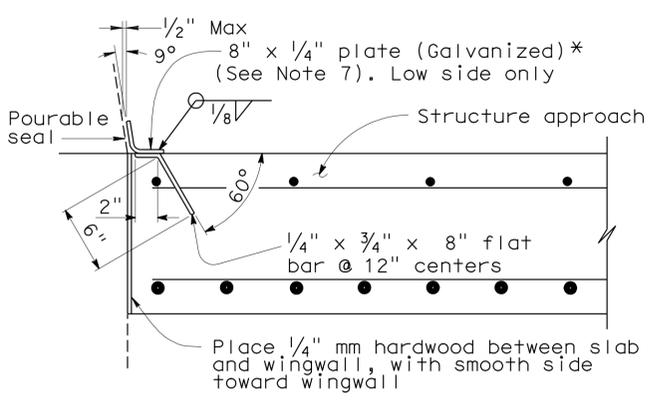


**TIE DETAIL**

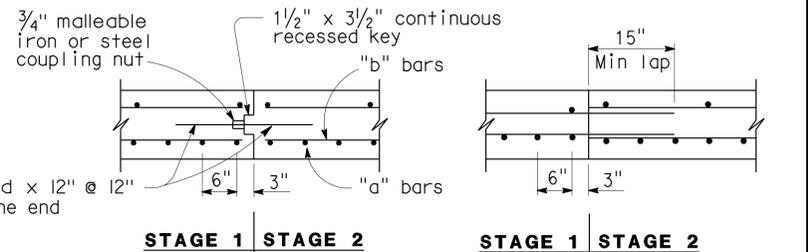


**\*(TO BE USED WITH TYPE 25 OR TYPE 27 CONCRETE BARRIER)**

**DETAIL B**



**\*(TO BE USED WITH TYPE 732 OR TYPE 736 CONCRETE BARRIER)**



**LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES**

- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
  - Space to avoid existing prestress anchorages and main reinforcement.
  - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
  - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
  - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
  - Couplers are required for stage construction.
  - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.

NO SCALE

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

DESIGN	BY Franz Espinoza	CHECKED Charles Hutchinson
DETAILS	BY Trung Lam	CHECKED Charles Hutchinson
QUANTITIES	BY Charles Hutchinson	CHECKED Charles Hutchinson

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

ROUTE 99 BRIDGES	
STRUCTURE APPROACH TYPE R(30D)	

CU 06	EA OG4301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 9 OF 9
			11-28-08   11-24-08   01-07-09   7-09-09	

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