

INDEX OF PLANS

SHEET No.	DESCRIPTION
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2	CONSTRUCTION AREA SIGNS
3	PAVEMENT DELINEATION QUANTITIES
4-7	REVISED STANDARD PLANS

STRUCTURE PLANS

8-11 ROUTE 168 BRIDGES

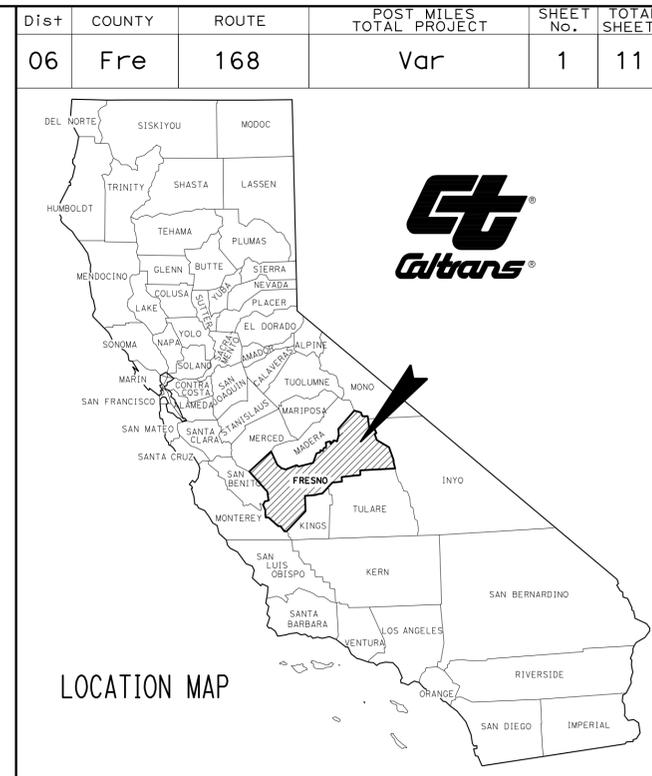
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY

IN FRESNO COUNTY  
IN FRESNO AND CLOVIS  
ON ROUTE 168  
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



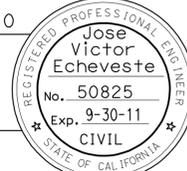
LOCATIONS OF CONSTRUCTION

No.	COUNTY	ROUTE	POST MILE	DESCRIPTION	DIRECTION
①	Fre	168	R2.02	SHIELDS Ave OC (Br No. 42-0338)	EAST/WEST
②	Fre	168	R4.81	WILLOW Ave OC (Br No. 42-0359)	NORTH/SOUTH
③	Fre	168	R5.94	VILLA Ave OC (Br No. 42-0402)	NORTH/SOUTH
④	Fre	168	R6.66	PALO ALTO UC TRAIL (Br No. 42-0404L)	SOUTH
⑤	Fre	168	R7.55	SUNNYSIDE Ave OC (Br No. 42-0407)	NORTH/SOUTH
⑥	Fre	168	R8.04	FOWLER Ave OC (Br No. 42-0408)	NORTH/SOUTH
⑦	Fre	168	R8.54	ARMSTRONG Ave OC (Br No. 42-0409)	NORTH/SOUTH
⑧	Fre	168	R9.15	TERMPERANCE Ave UC (Br No. 42-0410L)	SOUTH

PROJECT MANAGER  
BILL MOSES

DESIGN ENGINEER  
FRANK GONZALEZ

3-08-10  
PROJECT ENGINEER  
REGISTERED CIVIL ENGINEER



February 14, 2011  
PLANS APPROVAL DATE

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

CONTRACT No.	<b>06-0G7604</b>
PROJECT ID	<b>0600000108</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 No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	2 - 4" x 4"	4
(B)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	35
(C)	G20-2	42" x 18"	END ROAD WORK	1 - 4" x 4"	16

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

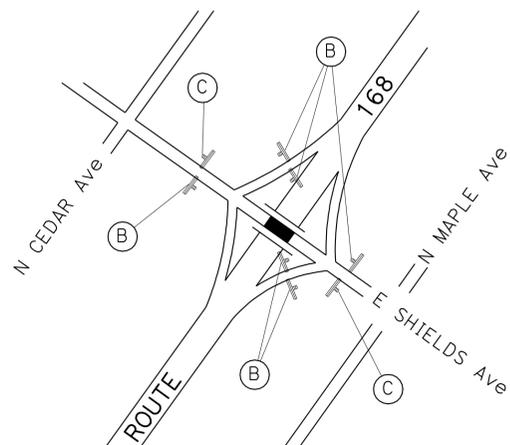
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	168	Var	2	11

3-02-10  
 REGISTERED CIVIL ENGINEER DATE

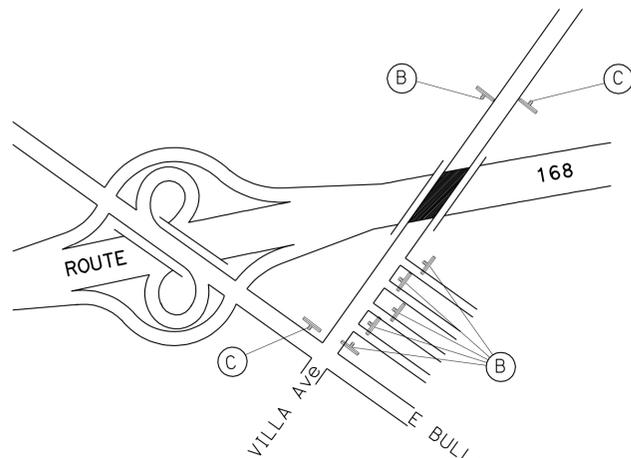
2-14-11  
 PLANS APPROVAL DATE

Jose Victor Echeveste  
 No. 50825  
 Exp. 9-30-11  
 CIVIL

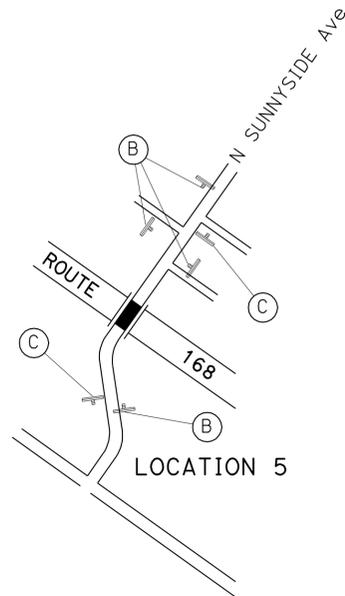
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



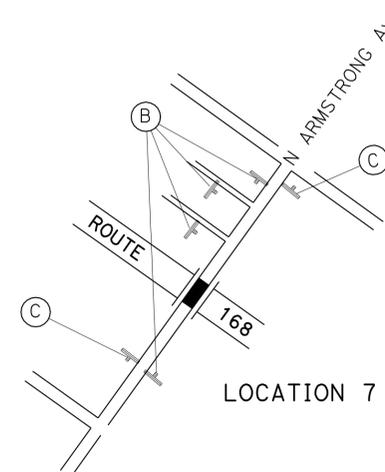
LOCATION 1



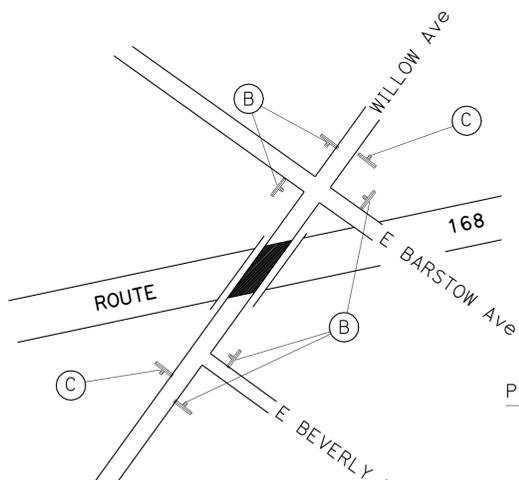
LOCATION 3



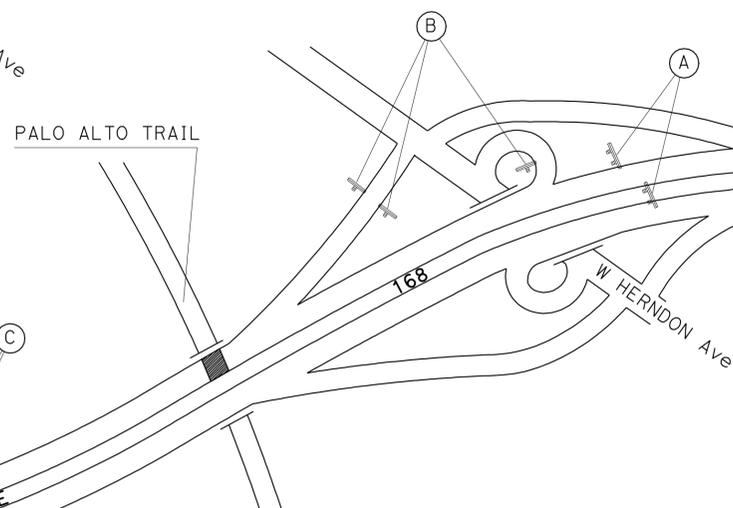
LOCATION 5



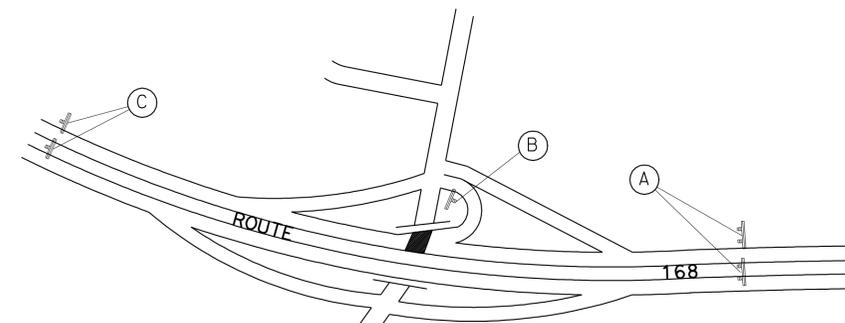
LOCATION 7



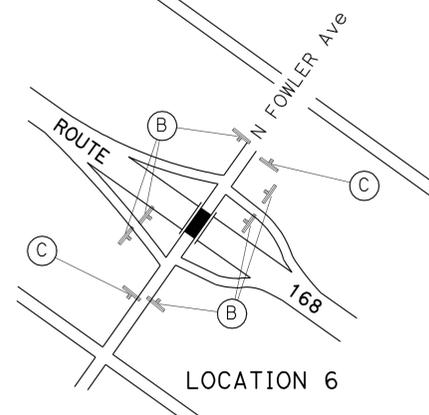
LOCATION 2



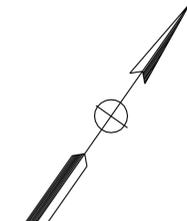
LOCATION 4



LOCATION 8



LOCATION 6



# CONSTRUCTION AREA SIGNS

NO SCALE

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: JOSE VICTOR ECHEVESTE  
 CHECKED BY: LEE XIONG  
 REVISOR: JOSE VICTOR ECHEVESTE  
 DATE: 3-02-10

LAST REVISION DATE PLOTTED => 16-FEB-2011 TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	168	Var	3	11

3-02-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-14-11  
 PLANS APPROVAL DATE

Jose Victor Echeveste  
 No. 50825  
 Exp. 9-30-11  
 CIVIL

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### PAVEMENT DELENATION QUANTITIES

LOCATION	CROSSING	BRIDGE No.	4" THERMOPLASTIC TRAFFIC STRIPE											PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC PAVEMENT MARKING		REMOVE PAVEMENT MARKER (N)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING	
			DETAIL No.											TYPE			ARROW TYPE						
			8	9	12	22	24	25	27B	31	36A	38	38A	D	G	H	III (L)	IV (L)					
			FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EA	EA	EA	SQFT	SQFT					
①	SHIELDS Ave OC	42-0338		440					440			440	153		31			84	31	1,473		84	
②	WILLOW Ave OC	42-0359		1,328					664						29				29	1,992			
③	VILLA Ave OC	42-0402		730			188		730	356			54		17			30	17	1,870	188	30	
④	PALO ALTO TRAIL UC	42-0404L			204		204		204		182				15				15	590	204		
⑤	SUNNYSIDE Ave OC	42-0407				456			454					20					20	454	456		
⑥	FOWLER Ave OC	42-0408	442						442				159					42		1,043		42	
⑦	ARMSTRONG Ave OC	42-0409				457			456					20					20	456	457		
⑧	TEMPERANCE Ave UC	42-0410L			204			205	204		204				16	6			22	612	205		
SUBTOTAL			442	2,498	408	913	392	205	3,594	356	386	440	366	40	108	6		126	30	154	8,490	1,510	156
TOTAL			10,000											154			156			8,490	1,510	156	

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

### PAVEMENT DELENATION QUANTITIES PDQ-1

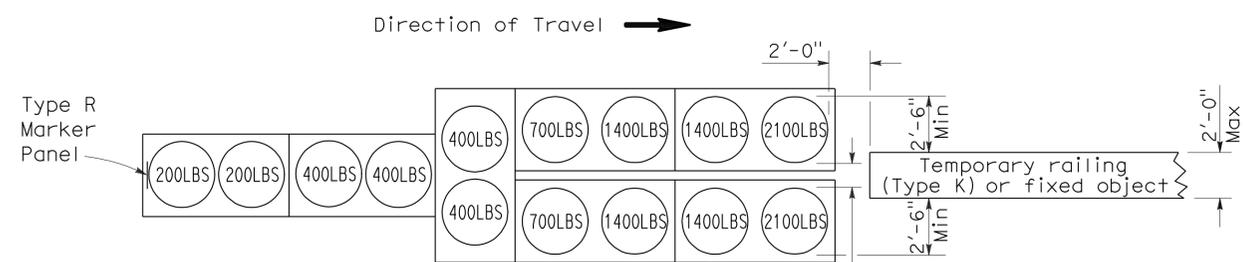
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	168	Var	4	11

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

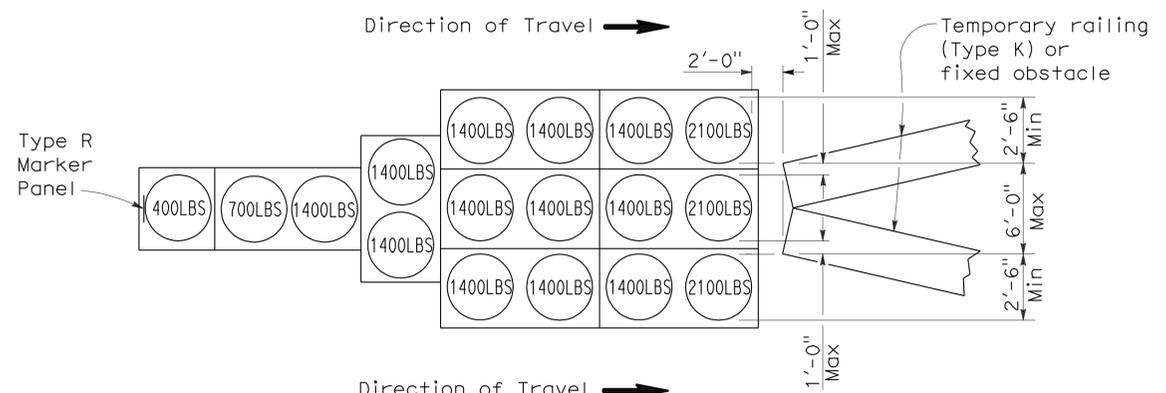
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 2-14-11



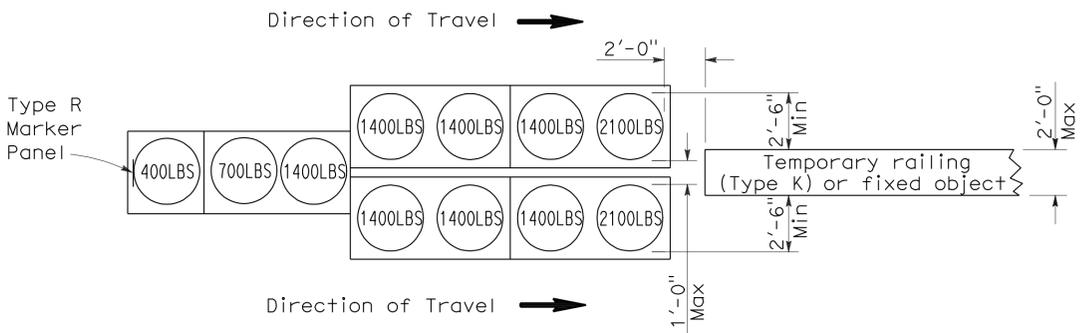
**ARRAY 'TU14'**

Approach speed 45 mph or more



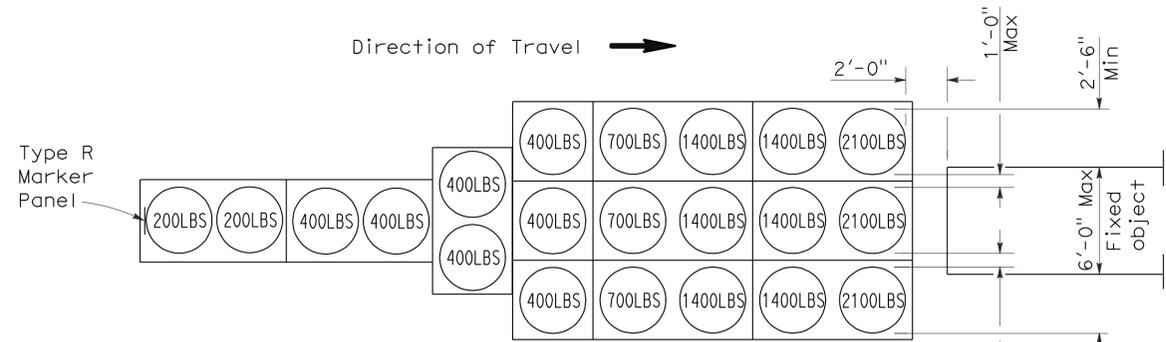
**ARRAY 'TU17'**

Approach speed less than 45 mph



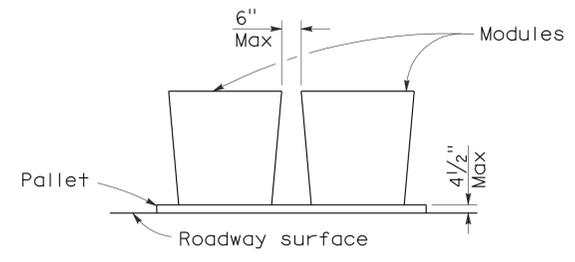
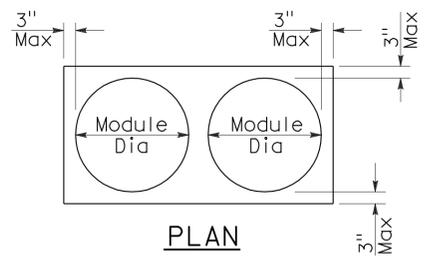
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more



**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

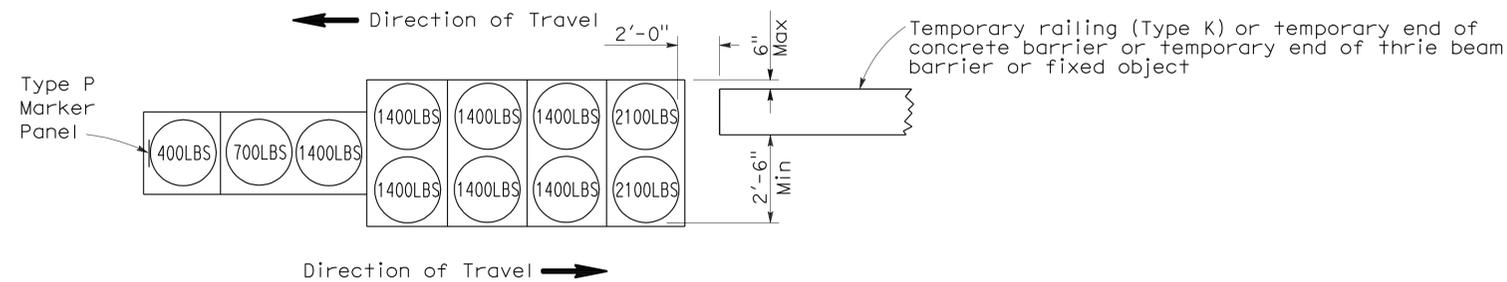
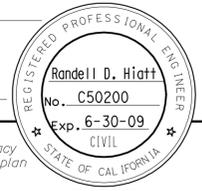
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	168	Var	5	11

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

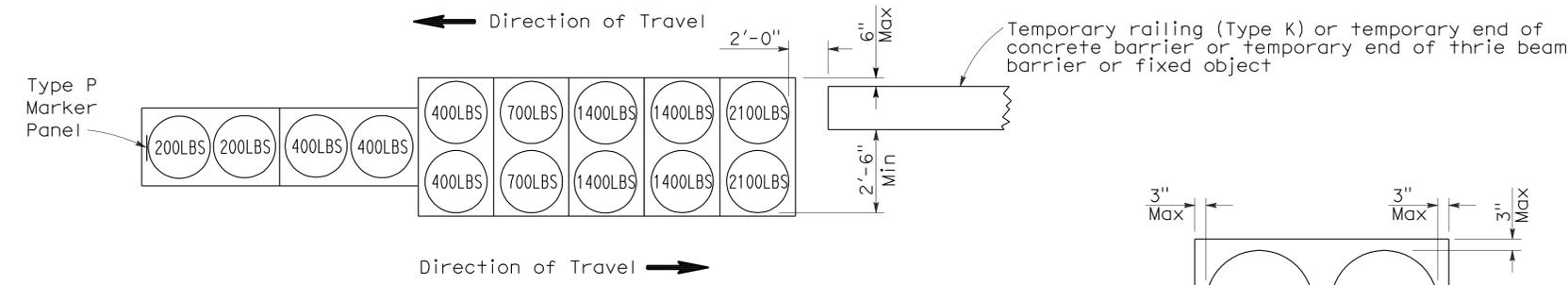
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 2-14-11



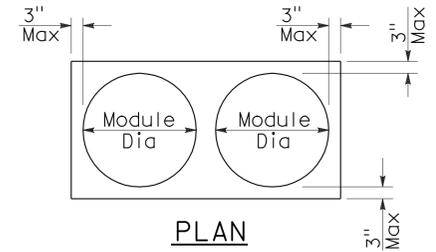
**ARRAY 'TB11'**

Approach speed less than 45 mph

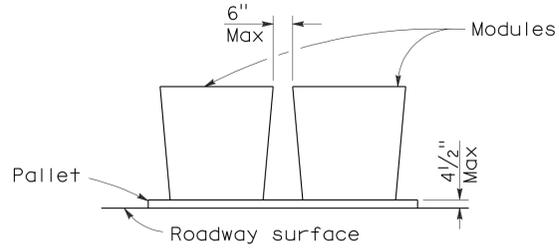


**ARRAY 'TB14'**

Approach speed 45 mph or more



PLAN



ELEVATION

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

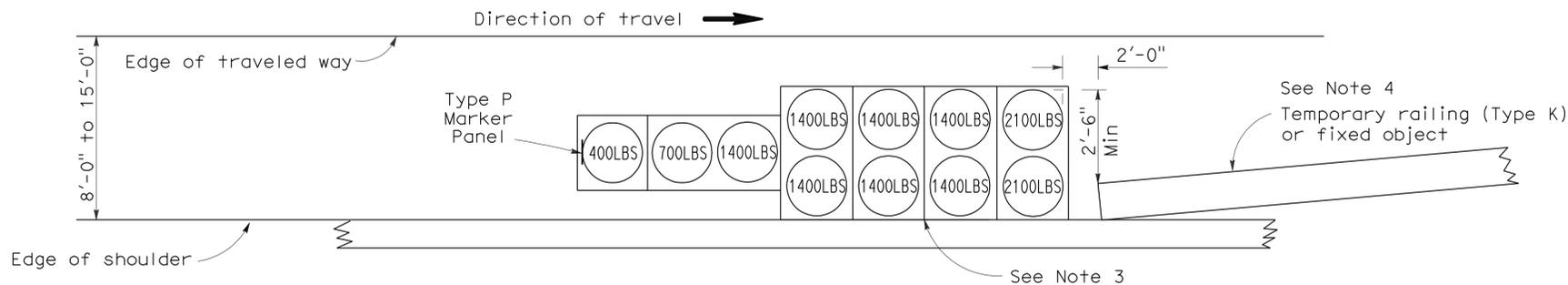
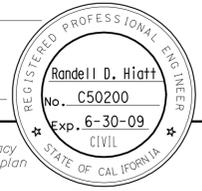
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	168	Var	6	11

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

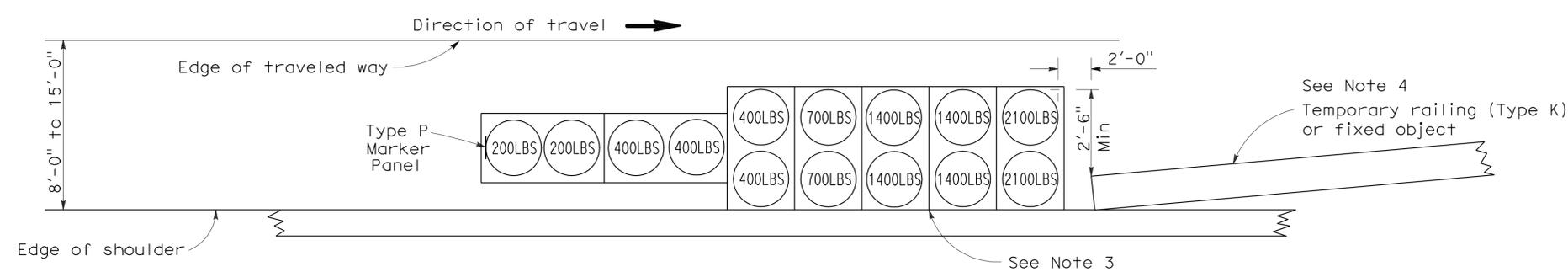
June 6, 2008  
PLANS APPROVAL DATE

*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.*

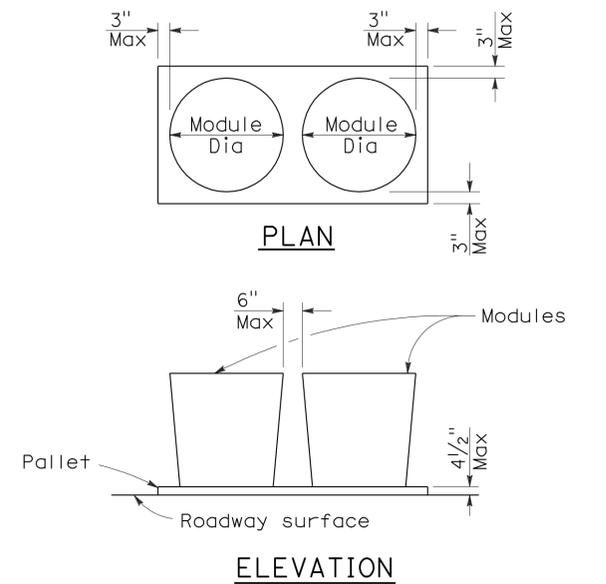
To accompany plans dated 2-14-11



**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

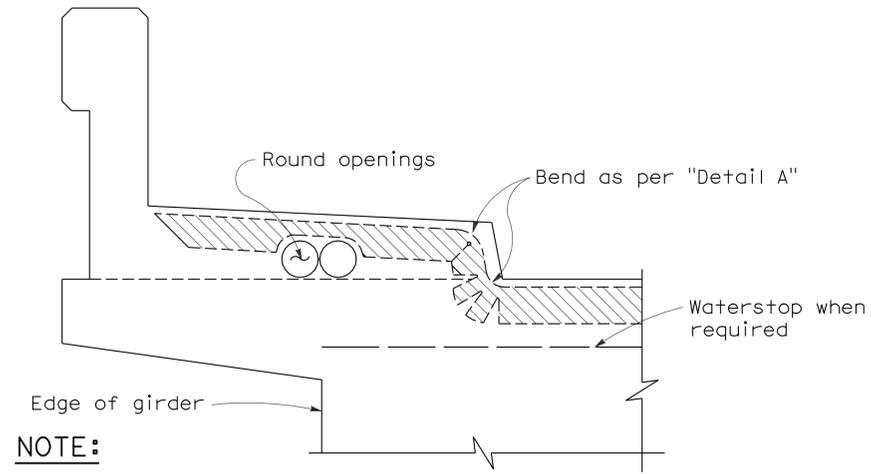
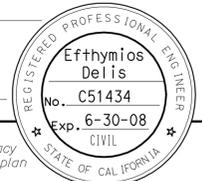
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

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.

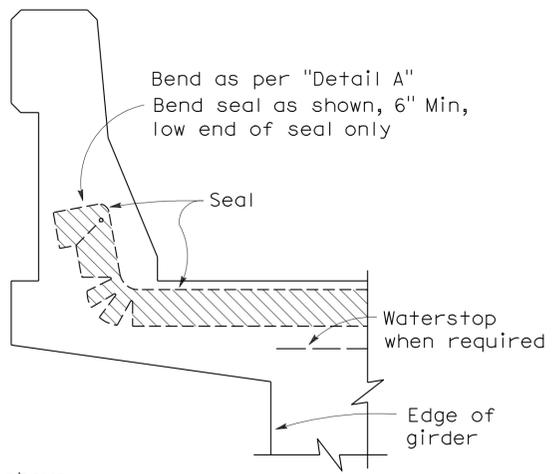
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

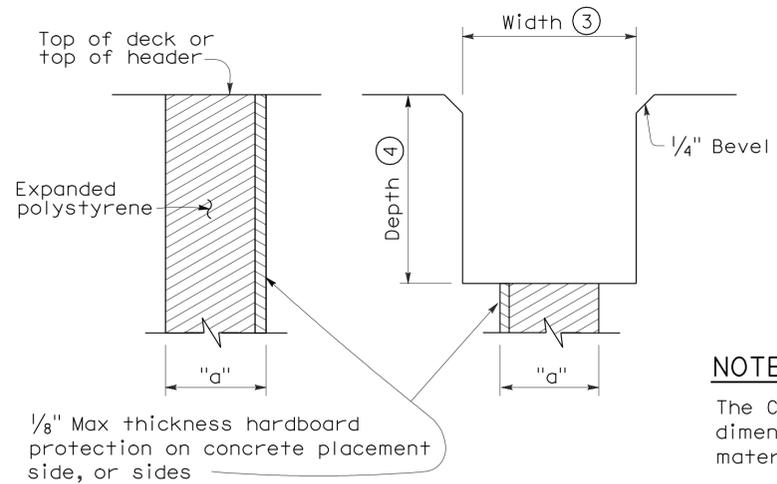


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



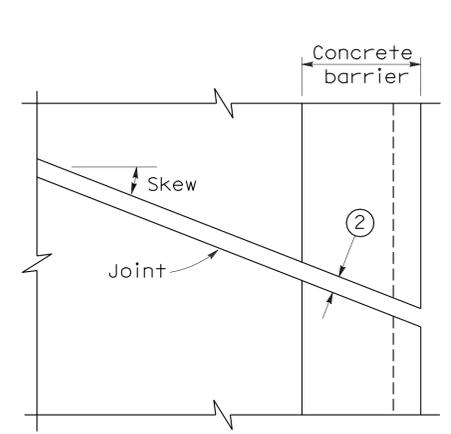
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

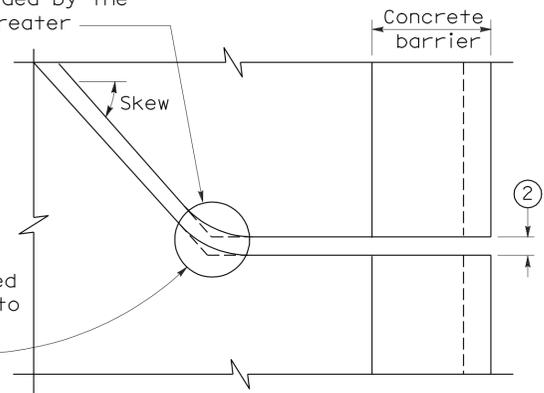
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



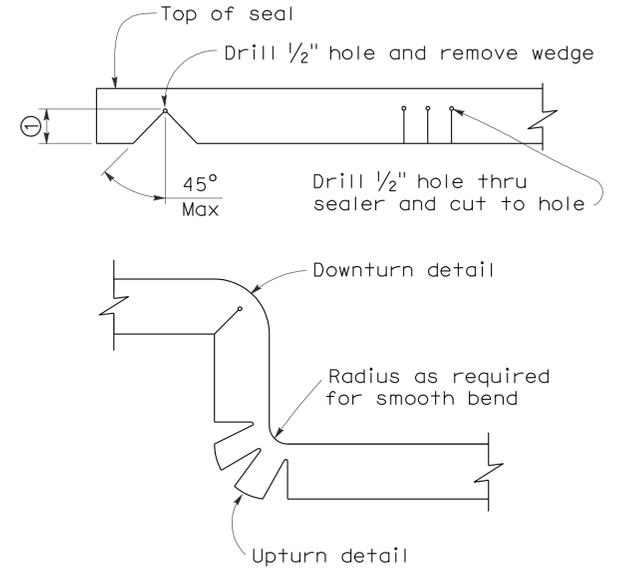
**PLAN OF JOINT (SKEW ≤ 20°)**

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.



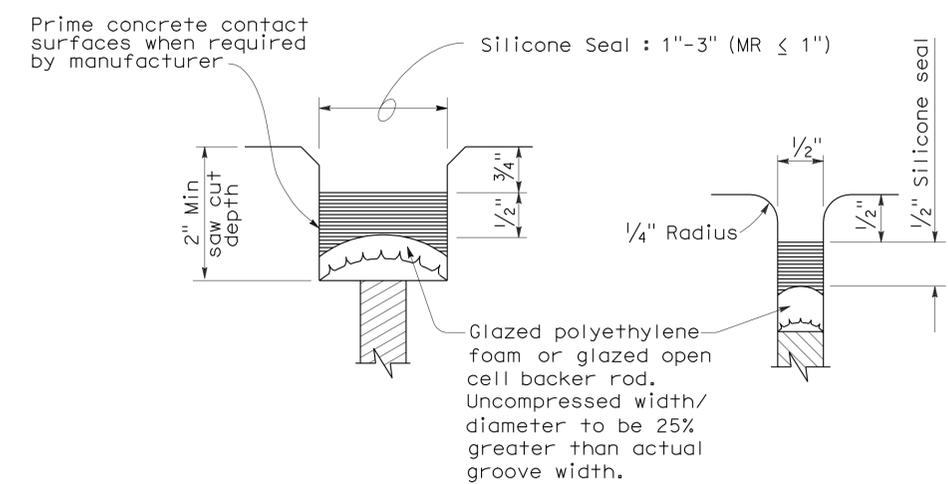
**DETAIL A**

- 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

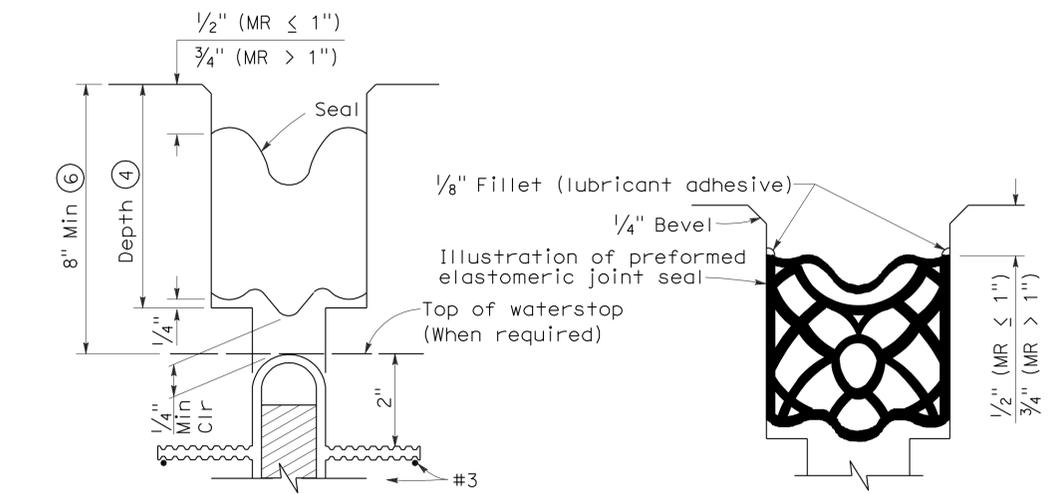


**TYPE A SEAL**

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	168	Var	8	11

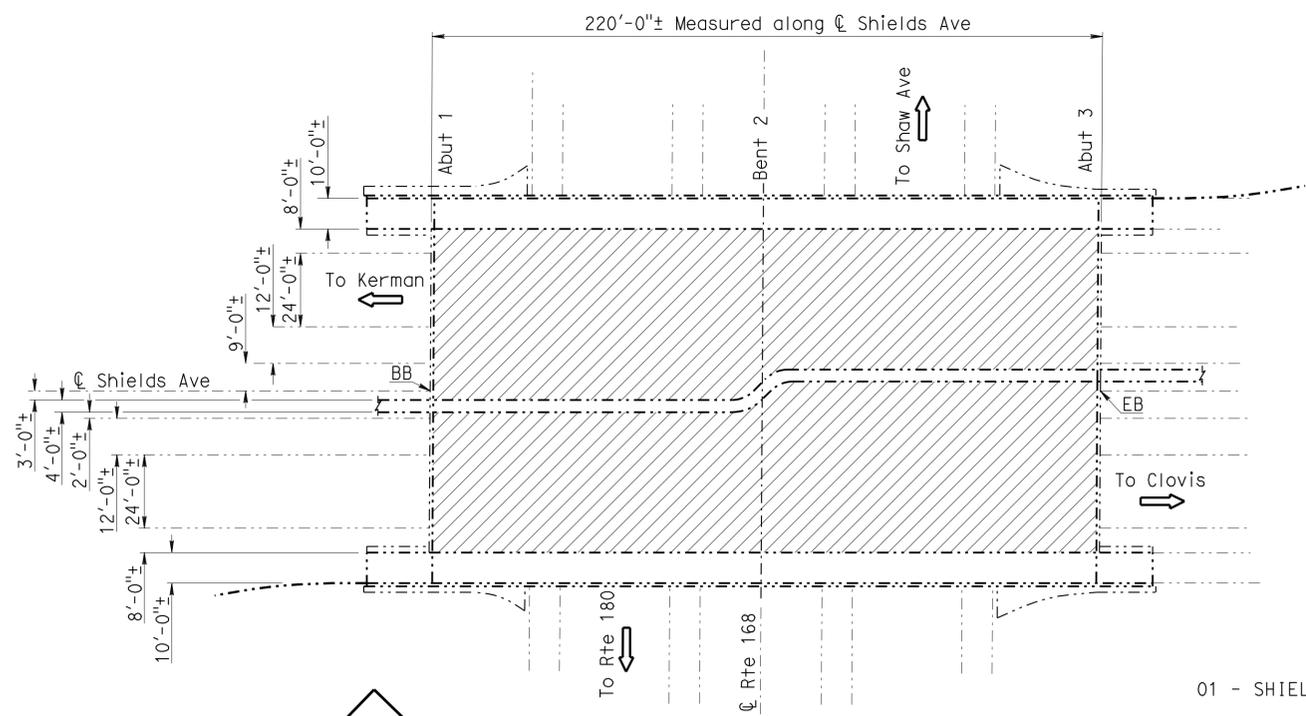
REGISTERED CIVIL ENGINEER DATE 12-2-10

2-14-11 PLANS APPROVAL DATE

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.

NOTE: (APPLY TO ALL SHEETS)  
 ----- Indicates existing.



**SHIELDS AVENUE OVERCROSSING**  
 Br. No. 42-0338, ROUTE 168, PM R2.02  
 1"=30'

01 - SHIELDS AVE OC 42-0338  
 QUANTITIES  
 REMOVE UNSOUND CONCRETE 55 CF  
 CLEAN BRIDGE DECK 22,000 SQFT  
 RAPID SETTING CONCRETE (PATCH) 55 CF  
 TREAT BRIDGE DECK 22,000 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 245 GAL

NOTES: (APPLY TO THIS SHEET ONLY)

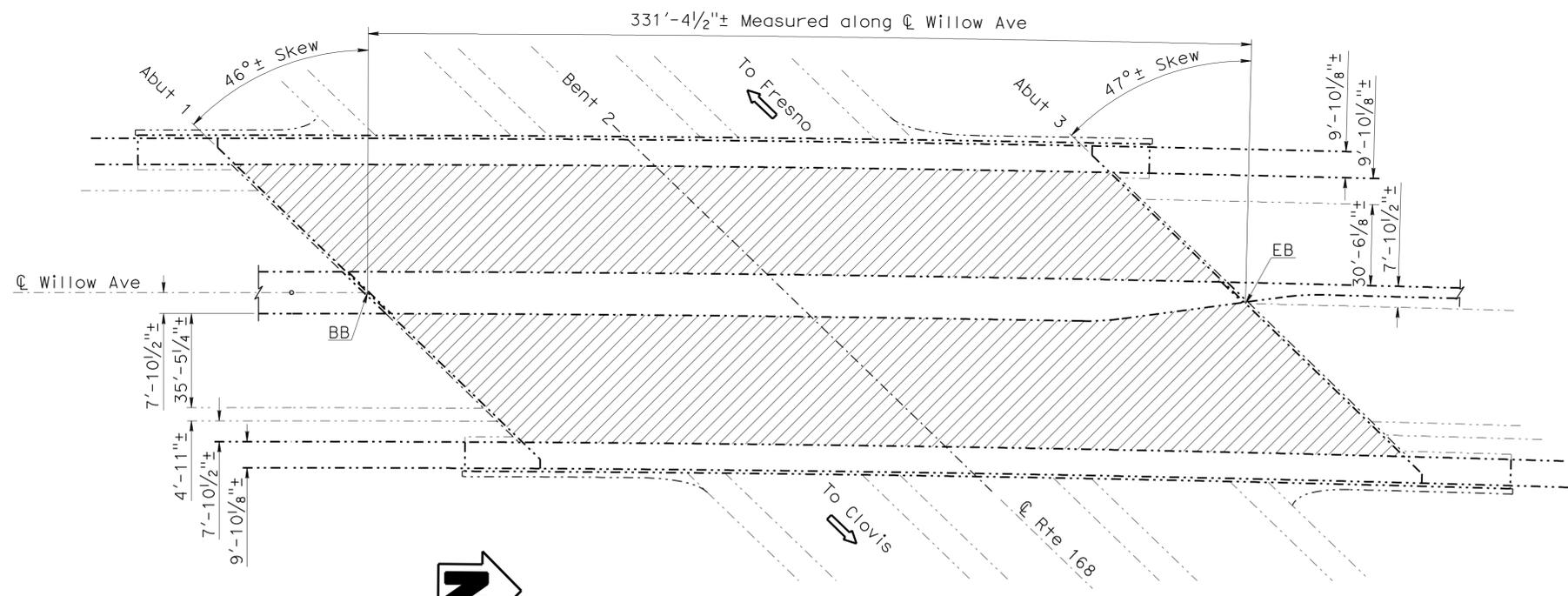
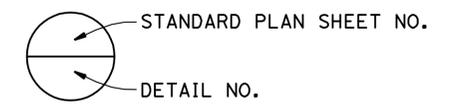
Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	JOINT SEAL DETAILS

**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")



**WILLOW AVENUE OVERCROSSING**  
 Br. No. 42-0359, ROUTE 168, PM R4.81  
 1"=30'

02 - WILLOW AVE OC 42-0359  
 QUANTITIES  
 REMOVE UNSOUND CONCRETE 74 CF  
 CLEAN BRIDGE DECK 29,460 SQFT  
 RAPID SETTING CONCRETE (PATCH) 74 CF  
 TREAT BRIDGE DECK 29,460 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 328 GAL  
 PUBLIC SAFETY PLAN LUMP SUM

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

*Mattie Collee* 12-2-10  
 DESIGN ENGINEER

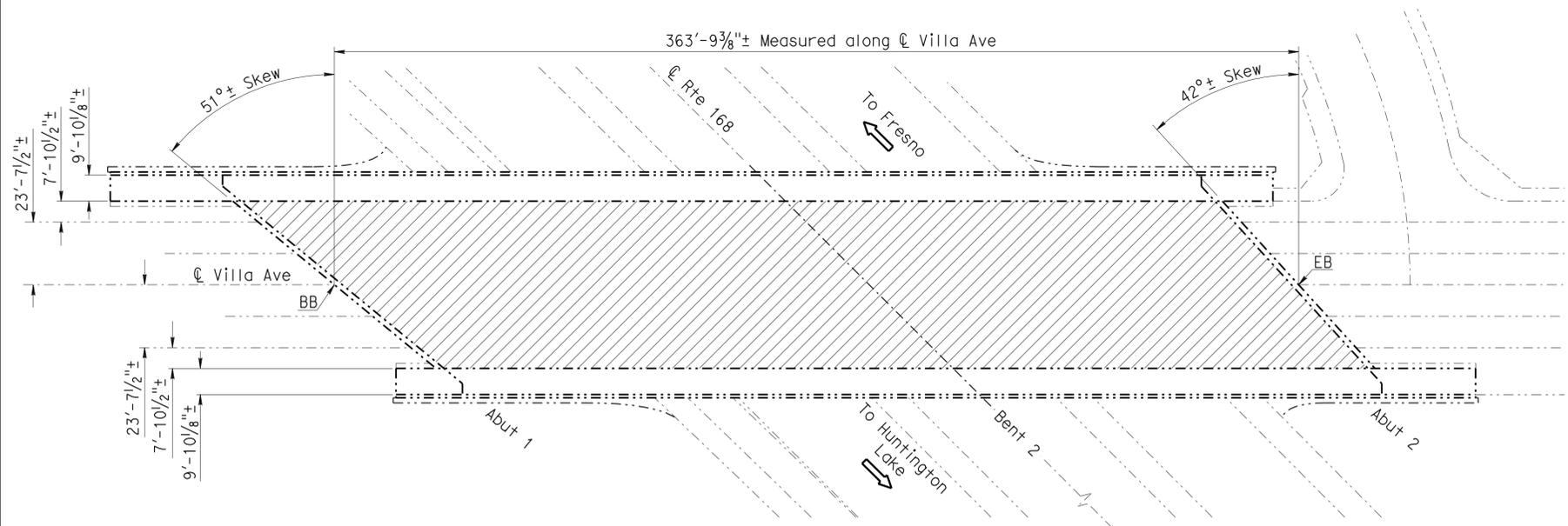
DESIGN	BY M. Hashimoto	CHECKED D. Acoba	LAYOUT	BY Dale Kubochi	CHECKED D. Acoba
DETAILS	BY Dale Kubochi	CHECKED D. Acoba	SPECIFICATIONS	BY V. Renganathan	PLANS AND SPECS COMPARED V. Renganathan
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 168 BRIDGES**  
**GENERAL PLAN NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	168	Var	9	11

REGISTERED CIVIL ENGINEER DATE 12-2-10  
 REGISTERED PROFESSIONAL ENGINEER  
 DIOSDADO ACOBA  
 No. 52003  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA  
 PLANS APPROVAL DATE 2-14-11  
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### VILLA AVENUE OVERCROSSING

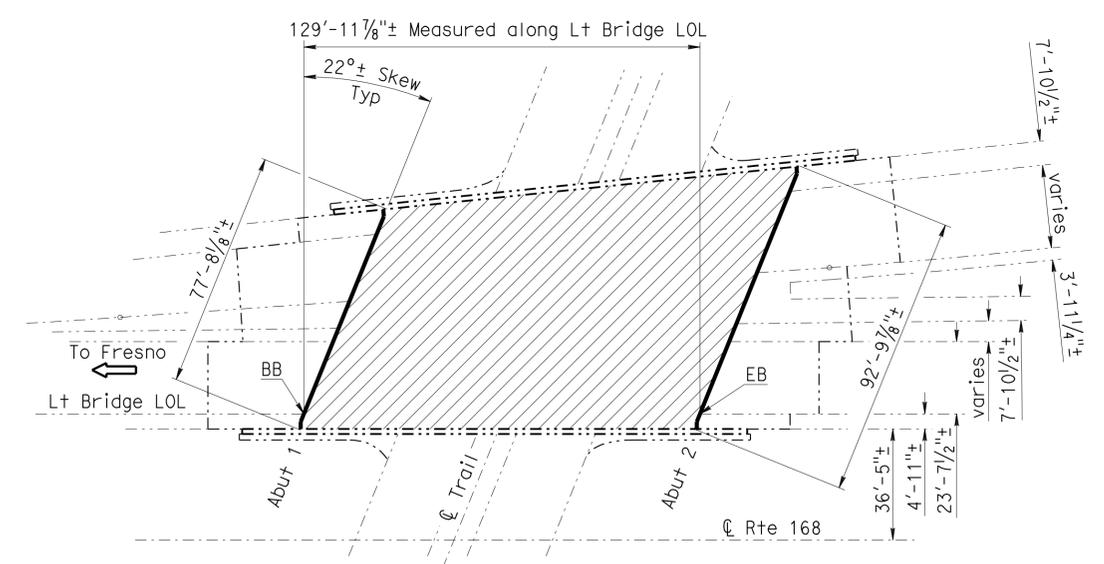
Br. No. 42-0402, ROUTE 168, PM R5.94  
1"=30'

03 - VILLA AVE OC 42-0402  
QUANTITIES

REMOVE UNSOUND CONCRETE	59	CF
CLEAN BRIDGE DECK	23,585	SQFT
RAPID SETTING CONCRETE (PATCH)	59	CF
TREAT BRIDGE DECK	23,585	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	262	GAL
PUBLIC SAFETY PLAN		LUMP SUM

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- Indicates location of existing joint seal removal and placement of new joint seal.



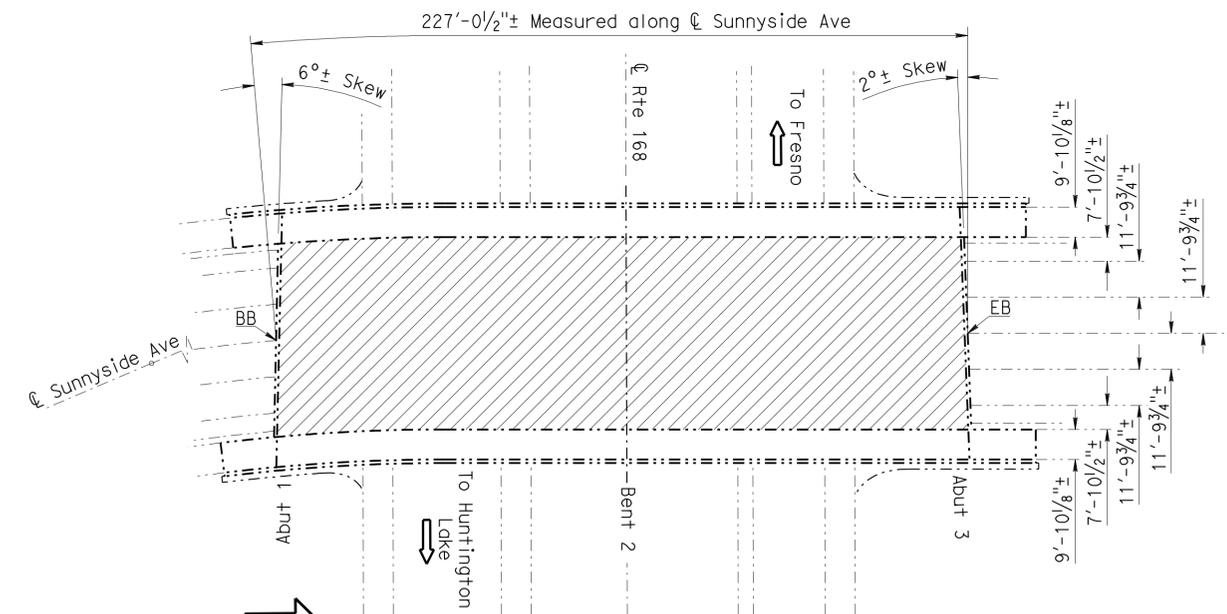
### PALO ALTO TRAIL UNDERCROSSING

Br. No. 42-0404L, ROUTE 168, PM R6.66  
1"=30'

04 - PALO ALTO TRAIL UC 42-0404L  
QUANTITIES

REMOVE UNSOUND CONCRETE	26	CF
CLEAN BRIDGE DECK	10,280	SQFT
CLEAN EXPANSION JOINT	172	LF
RAPID SETTING CONCRETE (PATCH)	26	CF
JOINT SEAL (MR 2")	172	LF
TREAT BRIDGE DECK	10,280	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	114	GAL

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



### SUNNYSIDE AVENUE OVERCROSSING

Br. No. 42-0407, ROUTE 168, PM R7.55  
1"=30'

05 - SUNNYSIDE AVE OC 42-0407  
QUANTITIES

REMOVE UNSOUND CONCRETE	36	CF
CLEAN BRIDGE DECK	14,300	SQFT
RAPID SETTING CONCRETE (PATCH)	36	CF
TREAT BRIDGE DECK	14,300	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	159	GAL
PUBLIC SAFETY PLAN		LUMP SUM

*Matthew Collee* 12-2-10  
DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED D. Acoba
DETAILS	BY Dale Kubochi	CHECKED D. Acoba
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba

LAYOUT	BY Dale Kubochi	CHECKED D. Acoba
SPECIFICATIONS	BY V. Renganathan	PLANS AND SPECS COMPARED V. Renganathan

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 168 BRIDGES  
GENERAL PLAN NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	168	Var	10	11

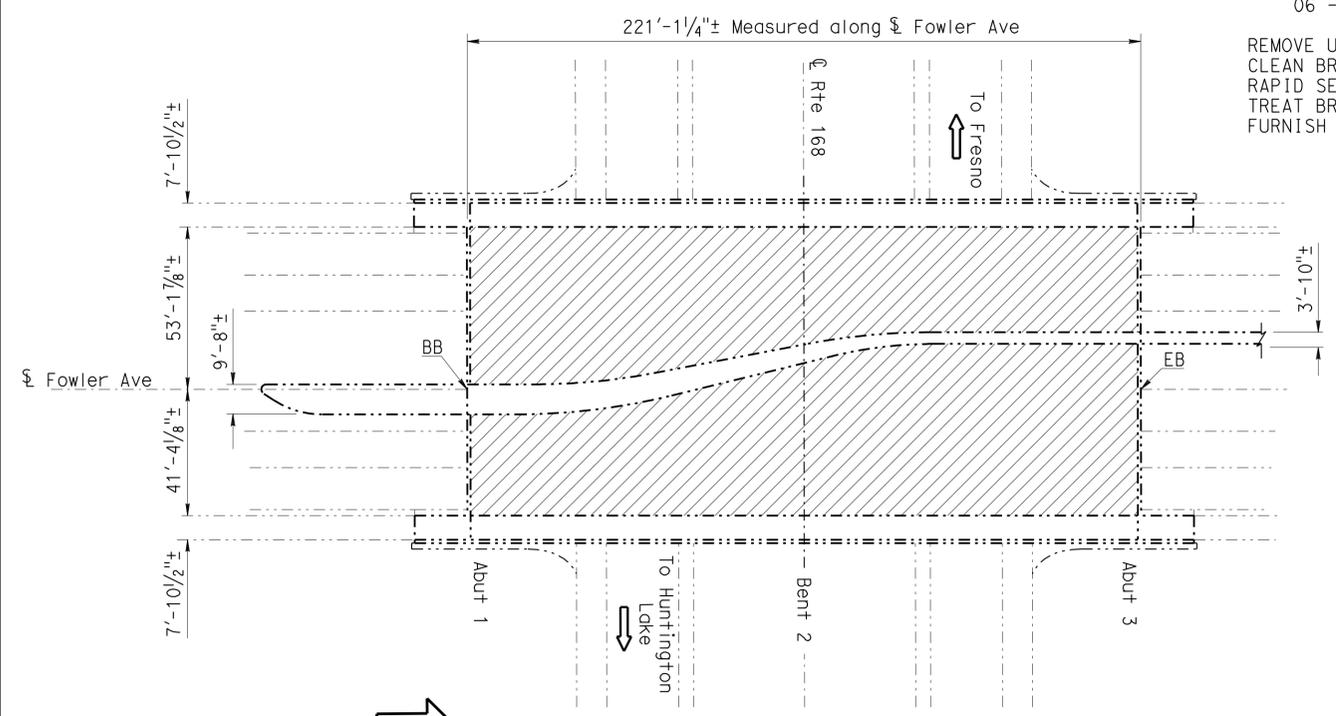
REGISTERED CIVIL ENGINEER DATE 12-2-10  
 REGISTERED PROFESSIONAL ENGINEER  
 DIOSDADO ACOPA  
 No. 52003  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-14-11  
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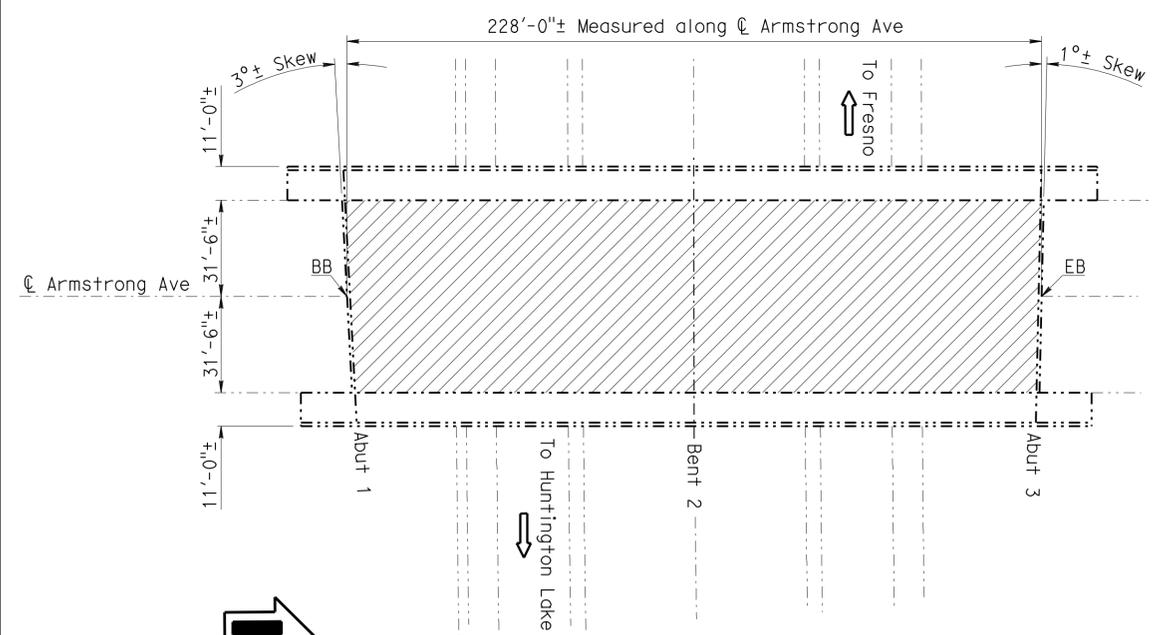
06 - FOWLER AVE OC 42-0408  
 QUANTITIES

REMOVE UNSOUND CONCRETE 52 CF  
 CLEAN BRIDGE DECK 20,775 SQFT  
 RAPID SETTING CONCRETE (PATCH) 52 CF  
 TREAT BRIDGE DECK 20,775 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 231 GAL

52 CF  
 20,775 SQFT  
 52 CF  
 20,775 SQFT  
 231 GAL



**FOWLER AVENUE OVERCROSSING**  
 Br. No. 42-0408, ROUTE 168, PM R8.04  
 1"=30'

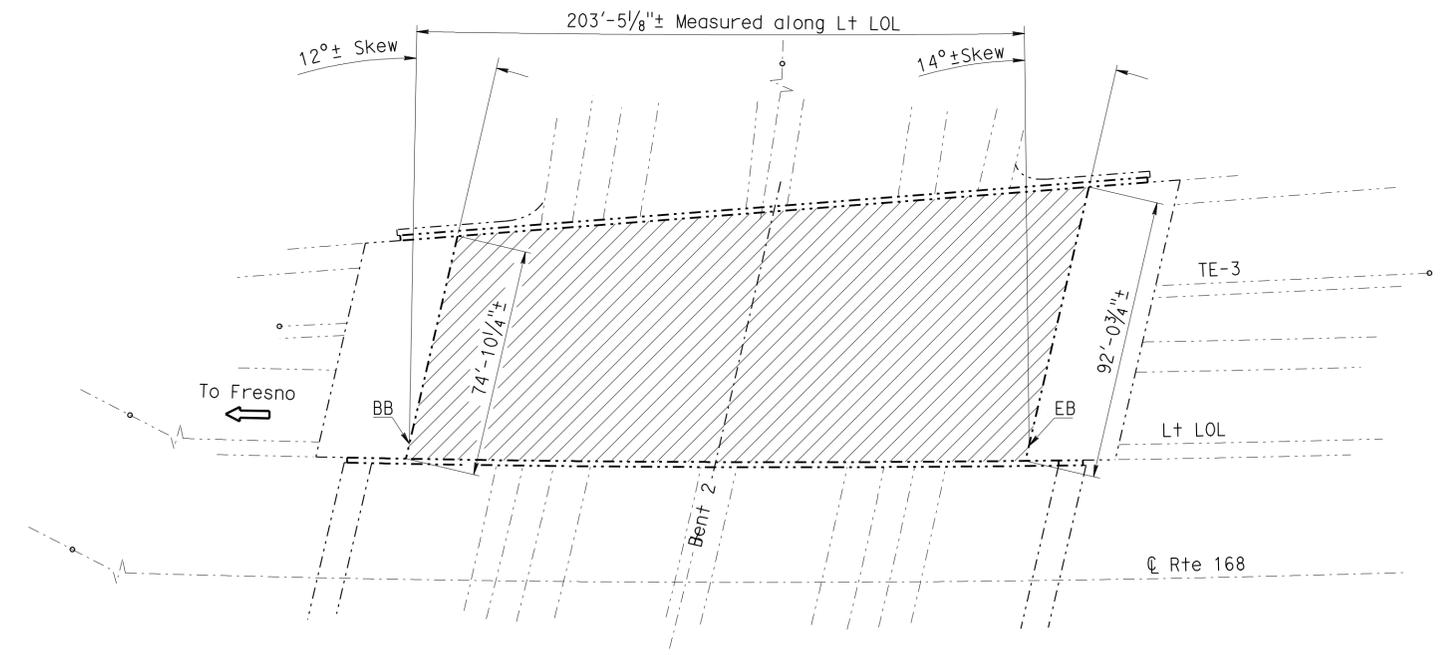


**ARMSTRONG AVENUE OVERCROSSING**  
 Br. No. 42-0409, ROUTE 168, PM R8.54  
 1"=30'

07 - ARMSTRONG AVE OC 42-0409  
 QUANTITIES

REMOVE UNSOUND CONCRETE  
 CLEAN BRIDGE DECK  
 RAPID SETTING CONCRETE (PATCH)  
 TREAT BRIDGE DECK  
 FURNISH BRIDGE DECK TREATMENT MATERIAL  
 PUBLIC SAFETY PLAN

36 CF  
 14,427 SQFT  
 36 CF  
 14,427 SQFT  
 161 GAL  
 LUMP SUM



**TEMPERANCE AVENUE UNDERCROSSING**  
 Br. No. 42-0410L, ROUTE 168, PM R9.15  
 1"=30'

08 - TEMPERANCE AVE UC 42-0410L  
 QUANTITIES

REMOVE UNSOUND CONCRETE 42 CF  
 CLEAN BRIDGE DECK 16,595 SQFT  
 RAPID SETTING CONCRETE (PATCH) 42 CF  
 TREAT BRIDGE DECK 16,595 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 185 GAL

42 CF  
 16,595 SQFT  
 42 CF  
 16,595 SQFT  
 185 GAL

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

*Mattie Collee* 12-2-10  
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED D. Acoba
DETAILS	BY Dale Kubochi	CHECKED D. Acoba
QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba

LAYOUT	BY Dale Kubochi	CHECKED D. Acoba
SPECIFICATIONS	BY V. Renganathan	PLANS AND SPECS COMPARED V. Renganathan

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

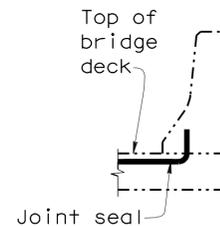
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 168 BRIDGES  
 GENERAL PLAN NO. 3

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
PALO ALTO TRAIL UNDERCROSSING	42-0404L	Abut 1	BB	2	78.3	YES	18
		Abut 2	EB	2	93.4	YES	18

**LEGEND:**

- BB - Joint at beginning of bridge
- EB - Joint at end of bridge



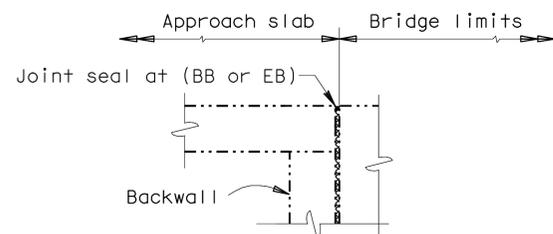
**BARRIER RAIL**

**JOINT SEAL AT LOW SIDE OF DECK**

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

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
SHIELDS AVENUE OVERCROSSING	42-0338	1	3
WILLOW AVENUE OVERCROSSING	42-0359	1	3
VILLA AVENUE OVERCROSSING	42-0402	1	3
PALO ALTO TRAIL UNDERCROSSING	42-0404L	1	3
SUNNYSIDE AVENUE OVERCROSSING	42-0407	1	3
FWLER AVENUE OVERCROSSING	42-0408	1	3
ARMSTRONG AVENUE OVERCROSSING	42-0409	1	3
TEMPERANCE AVENUE UNDERCROSSING	42-0410L	1	3

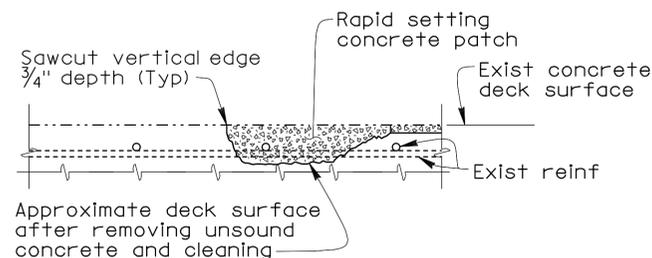
Locations to be determined by the Engineer. For details see "DECK REPAIR DETAIL".



**ABUTMENT WITH BACKWALL**

**JOINT SEAL LOCATION**

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



**DECK REPAIR DETAIL**

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

- 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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	168	Var	11	11

REGISTERED CIVIL ENGINEER DATE 12-2-10

PLANS APPROVAL DATE 2-14-11

REGISTERED PROFESSIONAL ENGINEER  
DIOSDADO ACOBA  
No. 52003  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

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STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)	DESIGN	BY M. Hashimoto	CHECKED D. Acoba	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 168 BRIDGES JOINT SEAL DETAILS
	DETAILS	BY Dale Kubochi	CHECKED D. Acoba			POST MILE	VARIES	
	QUANTITIES	BY M. Hashimoto	CHECKED D. Acoba			REVISION DATES	3-8-10 3-11-10 5-26-10	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 06600 EA 0G7601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 4	OF 4