

INDEX OF PLANS

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

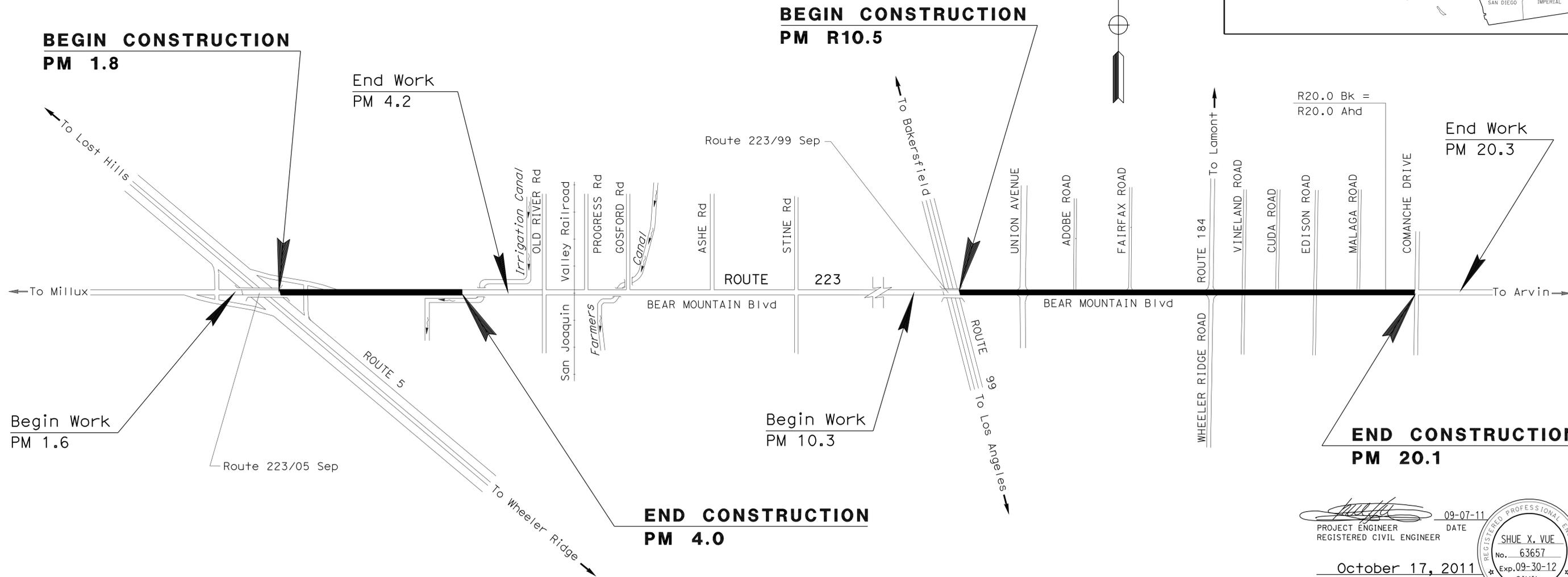
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN KERN COUNTY NEAR ARVIN  
FROM ROUTE 223/5 SEPARATION  
TO 0.9 MILE WEST OF OLD RIVER ROAD AND FROM  
ROUTE 223/99 SEPARATION TO COMANCHE DRIVE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	1	10

Caltrans



PROJECT MANAGER	BILL MOSES
DESIGN ENGINEER	SHUE VUE

PROJECT ENGINEER DATE 09-07-11  
REGISTERED CIVIL ENGINEER

SHUE X. VUE  
No. 63657  
Exp. 09-30-12  
CIVIL

October 17, 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.

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

NO SCALE

CONTRACT No.	06-ON2204
PROJECT ID	0600020494

DATE PLOTTED => 30-NOV-2011 TIME PLOTTED => 15:48

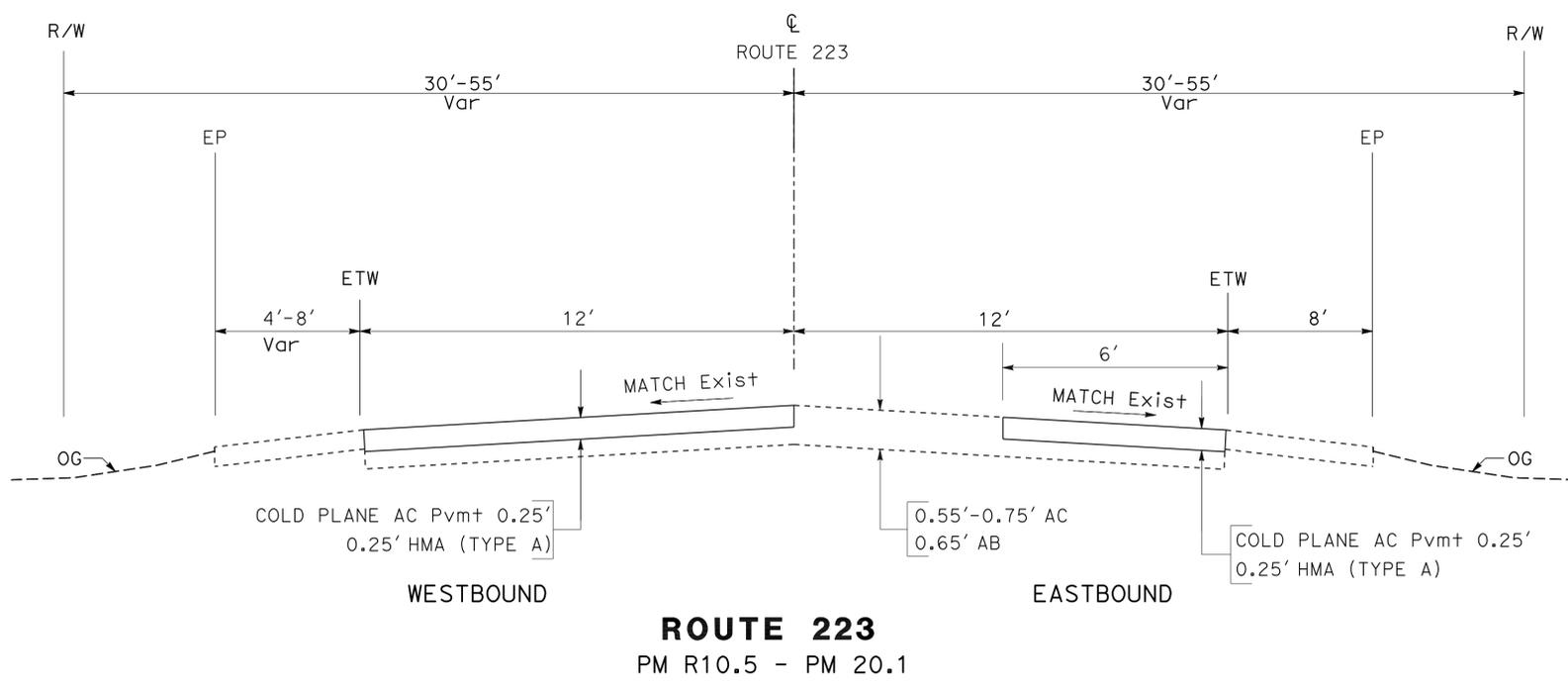
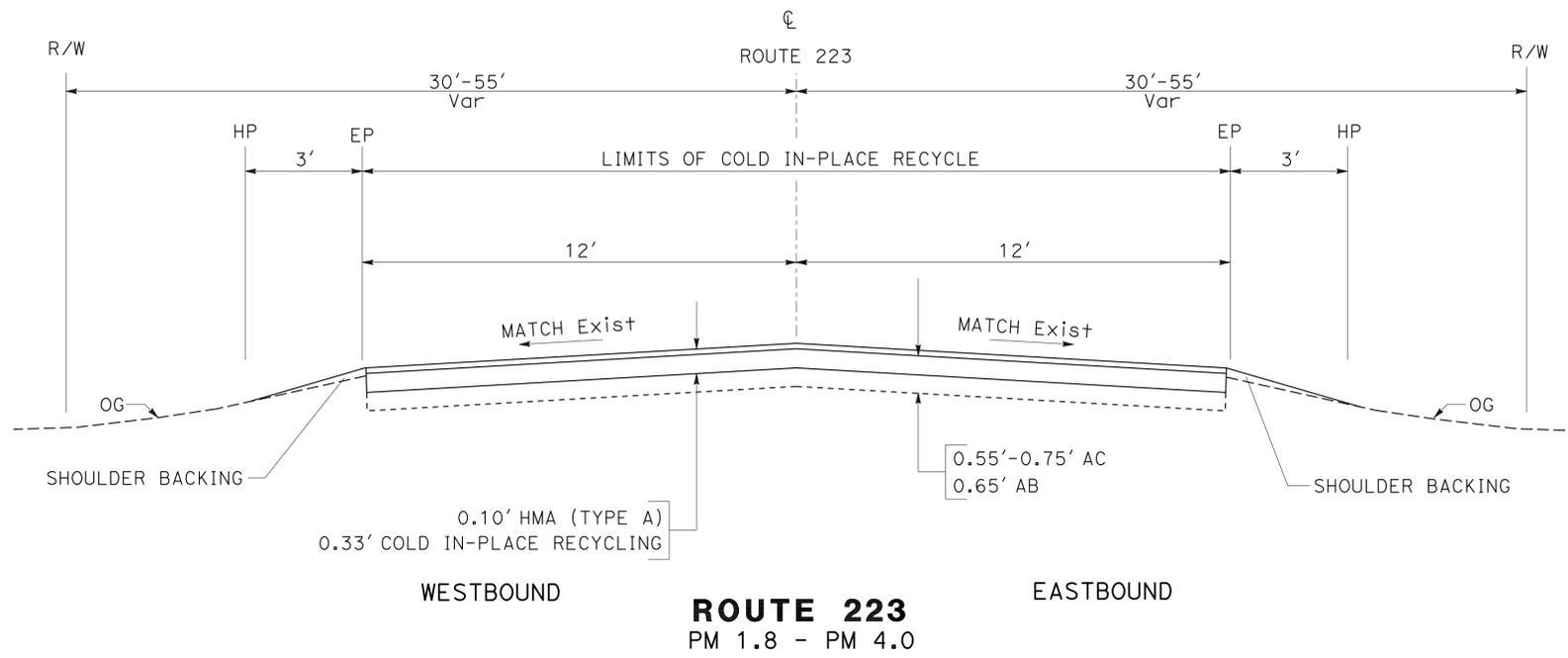
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	2	10

REGISTERED CIVIL ENGINEER DATE 09-07-11  
 SHUE X. VUE No. 63657 Exp. 09-30-12 CIVIL  
 PLANS APPROVAL DATE 10-17-11

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. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**TYPICAL CROSS SECTIONS**

NO SCALE

**X-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b> MAINTENANCE DESIGN	FRANK GONZALEZ	RENE SIQUEIROS	
		SHUE VUE	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	3	10

REGISTERED CIVIL ENGINEER DATE 09-07-11  
 SHUE X. VUE No. 63657 Exp. 09-30-12 CIVIL  
 PLANS APPROVAL DATE 10-17-11

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**ABBREVIATION:**

HMA = HOT MIX ASPHALT (TYPE A)

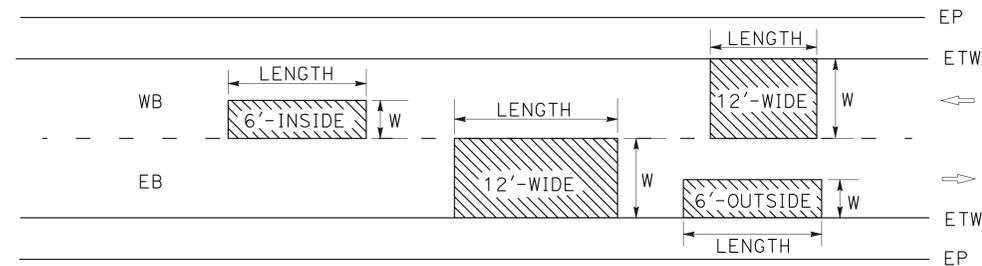
**LEGEND**

- 0.25' COLD PLANE AC PAVEMENT
- 0.25' HMA (TYPE A)
- LENGTHS AND WIDTHS VARY
- 0.10' Max COLD PLANE AC Pvmt
- 0.10' HMA (TYPE A)

**COLD PLANE AND HMA (CONFORM TAPER)**

ROUTE	PM	LOCATION	"L"	"W"	COLD PLANE AC PAVEMENT	HMA (TYPE A)
					SQYD	TON
223	1.8	BEGIN	20'	24'	54	4
	4.0	END	20'	24'	54	4
TOTAL					108 *	8 *

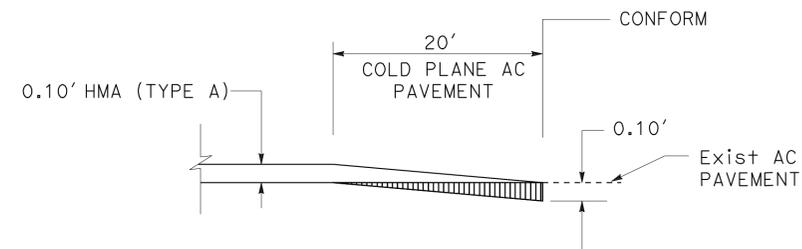
\* - Quantity is included in the Roadway Quantities table.



NOTE: EXACT LOCATIONS, WIDTHS, AND LENGTHS TO BE DETERMINED BY THE ENGINEER.

**COLD PLANE DETAILS**

PM R10.5 - PM 20.1



**LONGITUDINAL CONFORM TAPER AT BEGIN AND END CONSTRUCTION**

PM 1.8 - PM 4.0

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	4	10

REGISTERED CIVIL ENGINEER DATE 09-07-11  
 SHUE X. VUE  
 No. 63657  
 Exp. 09-30-12  
 CIVIL  
 STATE OF CALIFORNIA

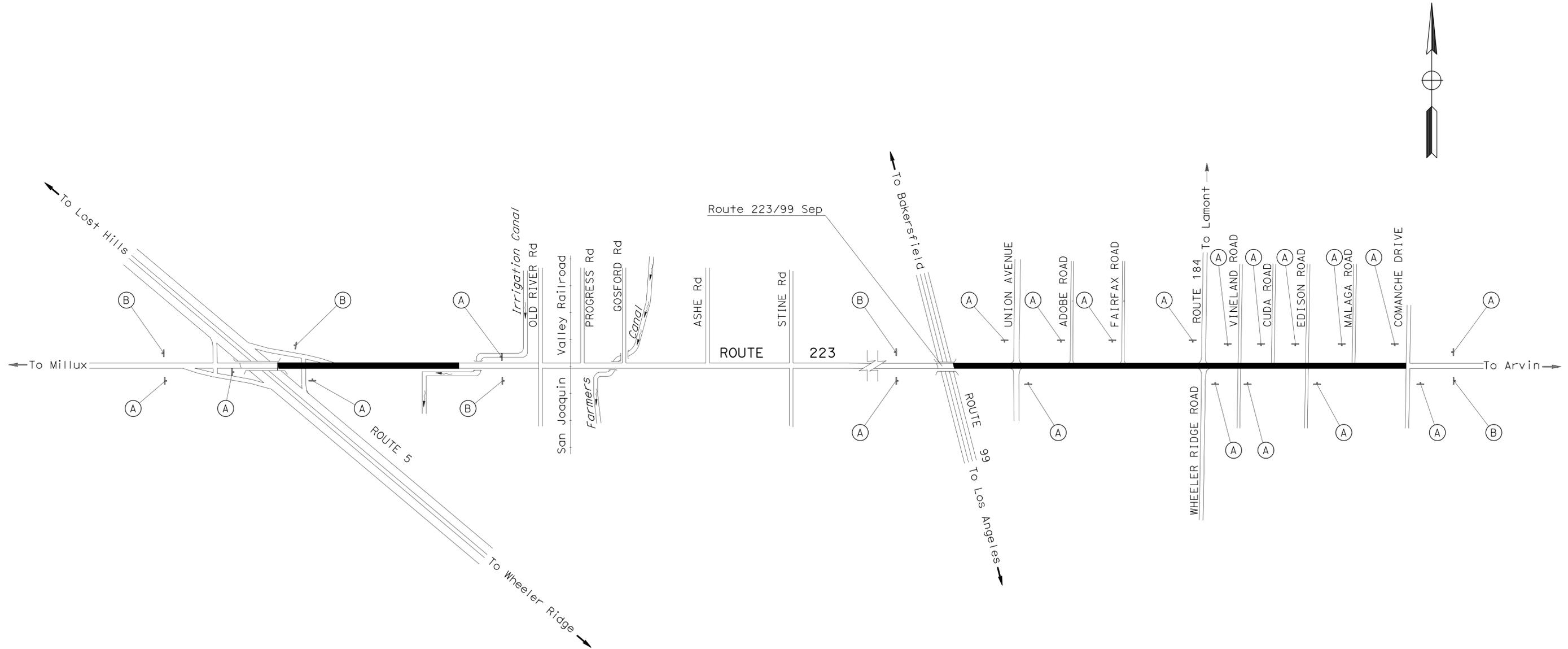
10-17-11  
 PLANS APPROVAL DATE

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.

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

	SIGN CODE	PANEL SIZE (inch x inch)	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	20
(B)	G20-1	36" x 18"	END ROAD WORK	1 - 4" x 4"	5

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



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

FUNCTIONAL SUPERVISOR  
FRANK GONZALEZ

CALCULATED/DESIGNED BY  
CHECKED BY

RENE SIQUEIROS  
SHUE VUE

REVISED BY  
DATE REVISED

APPROVED FOR SIGN WORK ONLY

**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	5	10

REGISTERED CIVIL ENGINEER DATE 09-07-11  
 10-17-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 SHUE X. VUE  
 No. 63657  
 Exp. 09-30-12  
 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.

NOTE:  
 \* = QUANTITIES ARE INCLUDED IN ROADWAY QUANTITIES TABLE (SHEET Q-2).

### COLD PLANE AND HMA AREAS

KERN 223													
EASTBOUND							WESTBOUND						
BEGIN (PM)	END (PM)	LENGTH (LF)			COLD PLANE AC PAVEMENT SQYD	HMA (TYPE A) TON	BEGIN (PM)	END (PM)	LENGTH (LF)			COLD PLANE AC PAVEMENT SQYD	HMA (TYPE A) TON
		12' WIDE	6' INSIDE	6' OUTSIDE					12' WIDE	6' INSIDE	6' OUTSIDE		
R10.51	R10.53	84			118	18	R19.26	R19.26		32		21	4
R10.53	R10.57	206			275	45	R16.60	R16.61	21			28	5
R10.58	R10.59	53			71	12	R15.47	R15.48		48		32	5
R10.60	R10.62		121		81	13	R15.19	R15.19	26			35	6
R10.62	R10.63	42			56	9	R15.18	R15.19		32		21	4
R10.67	R10.69			116	77	13	R15.09	R15.09		21		14	2
R10.72	R10.74			90	60	10	R15.04	R15.05			79	53	9
R10.77	R10.79			84	56	9	R14.91	R14.91		26		18	3
R11.31	R11.31	11			15	2	R14.90	R14.91	26			35	6
R11.34	R11.34	11			15	2	R14.90	R14.90		21		14	2
R11.44	R11.45	21			28	5	R14.67	R14.68			21	14	2
R11.56	R11.58			84	56	9	R14.28	R14.28		26		18	3
R11.62	R11.62			32	21	3	R14.27	R14.28	11			14	2
R11.65	R11.68			153	102	17	R14.23	R14.23	21			28	5
R11.69	R11.73			195	130	21	R13.70	R13.70		37		25	4
R11.84	R11.86			84	56	9	R13.58	R13.59			32	21	4
R12.61	R12.62			42	28	5	R13.58	R13.58	26			35	6
R13.70	R13.70	21			28	5	R13.54	R13.55	16			21	4
R13.82	R13.83		16		11	2	R13.53	R13.53	5			7	4
R15.45	R15.46		26		17	3	R13.49	R13.49	26			35	6
R16.33	R16.33			21	14	2	R12.65	R12.66	42			56	9
R16.67	R16.67			26	17	3	R12.63	R12.64	58			77	13
R16.68	R16.68			26	17	3	R12.61	R12.61		48		32	5
R17.39	R17.40	58			77	13	R12.60	R12.61			16	11	2
R17.60	R17.60	16			21	3	R12.59	R12.59	16			21	4
R17.60	R17.61			40	27	4	R11.90	R11.92		74		50	8
R17.61	R17.62		53		35	6	R11.90	R11.90	5			7	4
R18.11	R18.12	42			56	9	R11.89	R11.90			5	4	1
R19.10	R19.10			26	17	3	R11.72	R11.78		296		197	32
20.07	20.07			16	11	2	R11.73	R11.74		53		35	6
20.08	20.09			58	39	6	R11.53	R11.54		16		11	2
20.09	20.09		26		17	3	R11.51	R11.53			90	60	10
20.10	20.11			69	46	8	R11.50	R11.51	58			77	13
							R11.49	R11.50			48	32	5
							R10.85	R10.86			26	18	3
							R10.80	R10.81	26			35	6
							R10.77	R10.77	11			14	2
							R10.73	R10.73	16			21	4
							R10.63	R10.72	465			620	101
							R10.62	R10.63			48	32	5
							R10.60	R10.62	90			120	20
							R10.50	R10.60	454			605	99
TOTAL					1695 *	277 *	TOTAL					2624 *	440 *

## SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR FRANK GONZALEZ  
 CALCULATED/DESIGNED BY CHECKED BY  
 RENE SIQUEIROS SHUE VUE  
 REVISED BY DATE REVISED

LAST REVISION DATE PLOTTED => 27-OCT-2011  
 09-07-11 TIME PLOTTED => 15:49



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	7	10

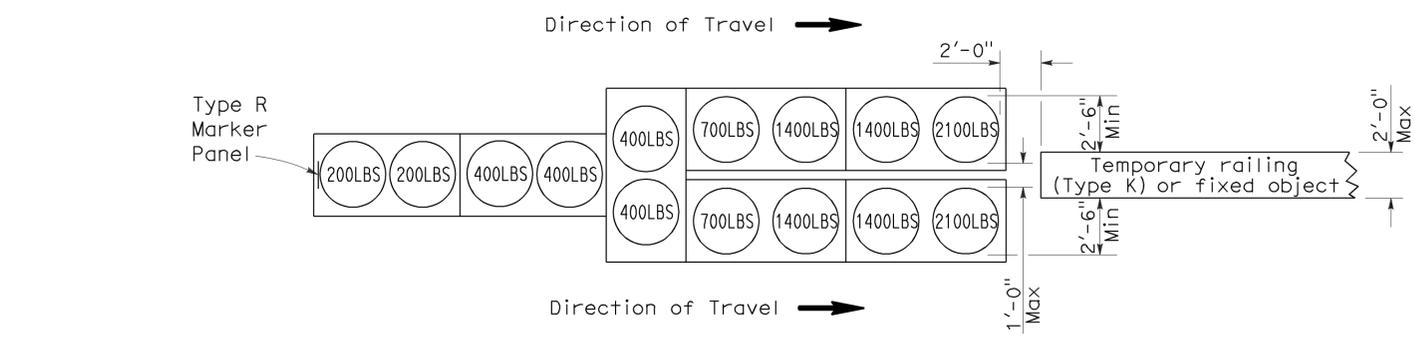
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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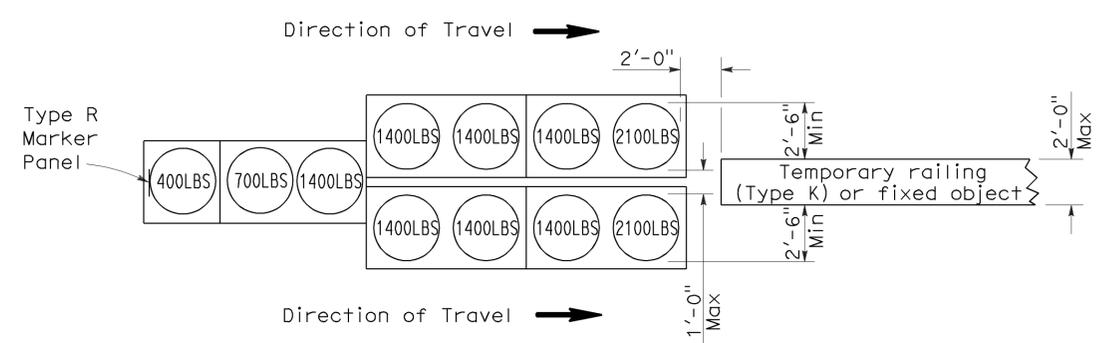
REGISTERED PROFESSIONAL ENGINEER  
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 10-17-11



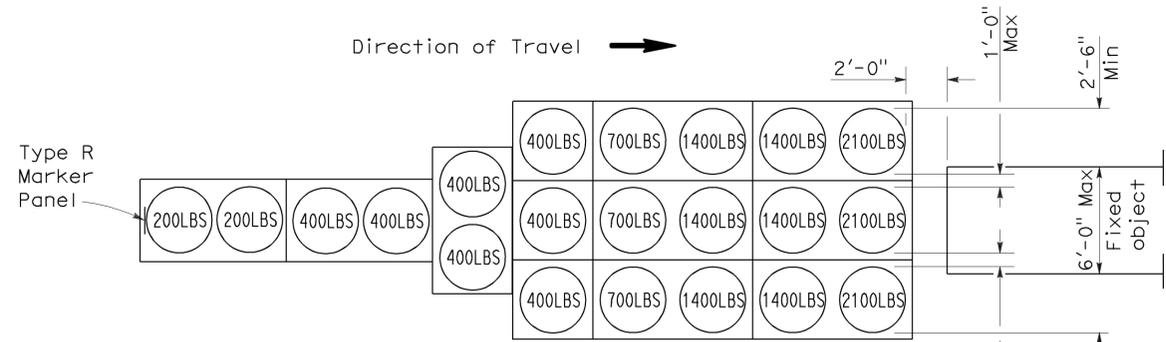
**ARRAY 'TU14'**

Approach speed 45 mph or more



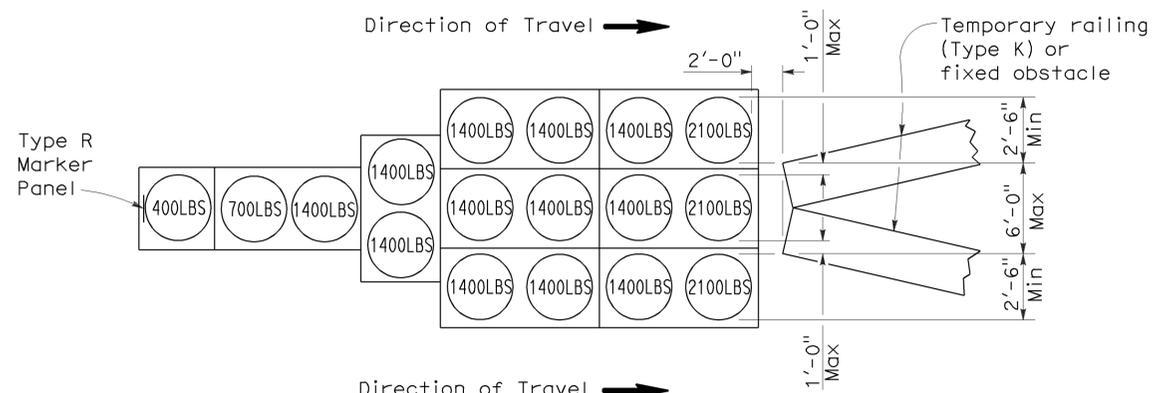
**ARRAY 'TU11'**

Approach speed less than 45 mph



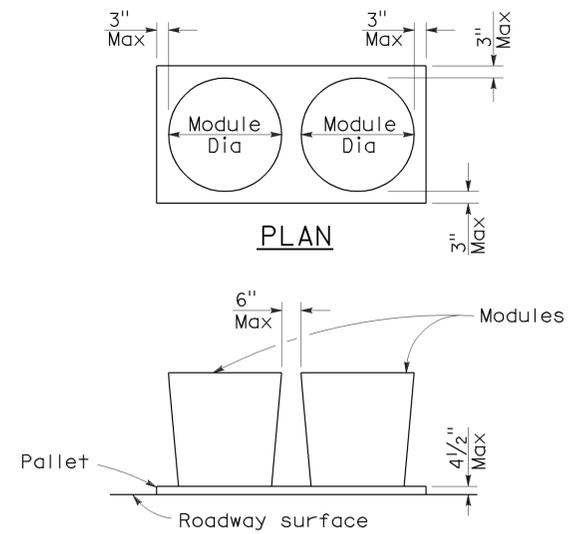
**ARRAY 'TU21'**

Approach speed 45 mph or more



**ARRAY 'TU17'**

Approach speed less than 45 mph



**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

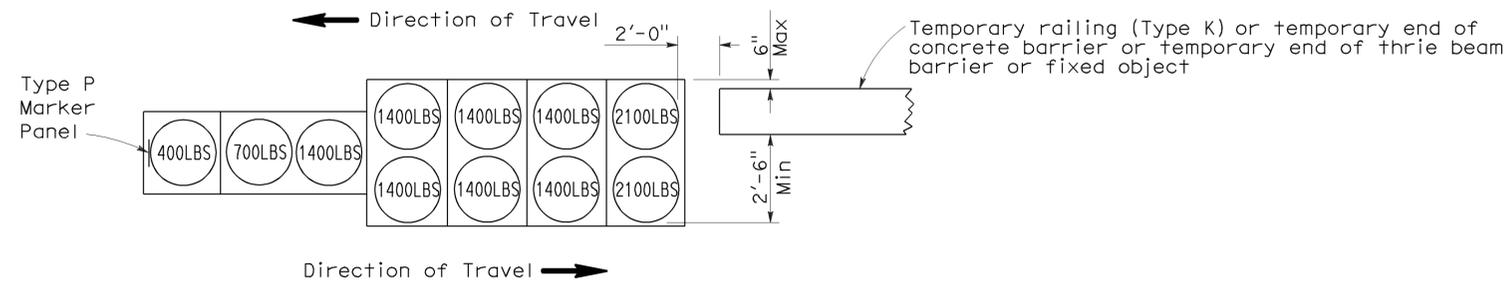
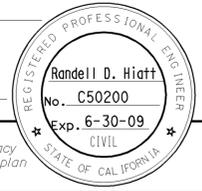
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	8	10

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

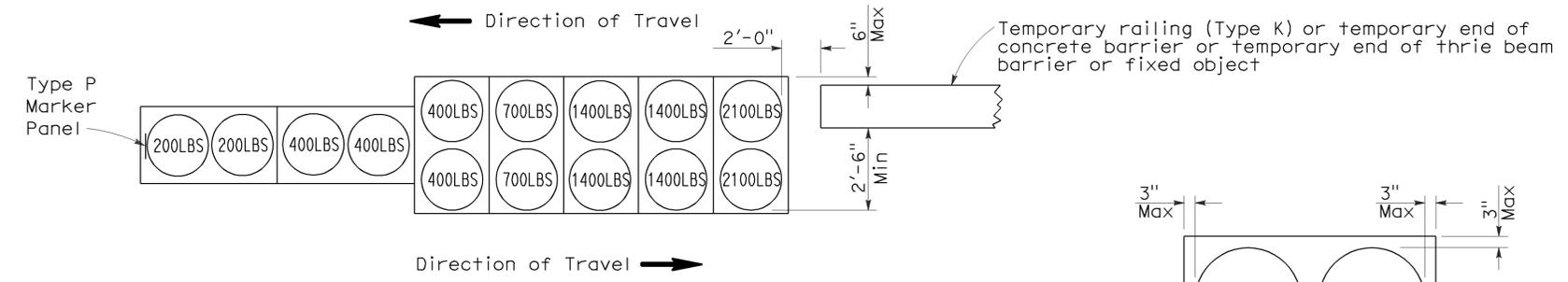
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To accompany plans dated 10-17-11



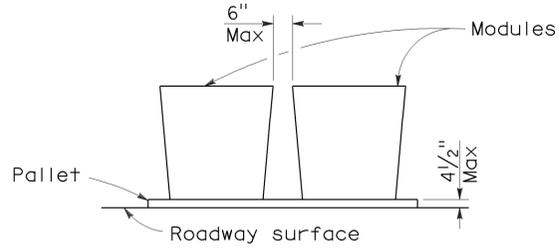
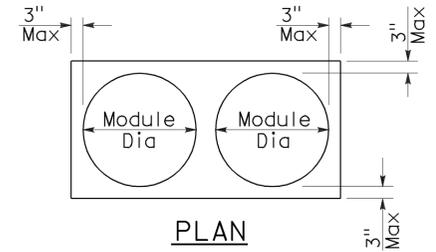
**ARRAY 'TB11'**

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
06	Ker	223	1.8/4.0, R10.5/20.1	9	10

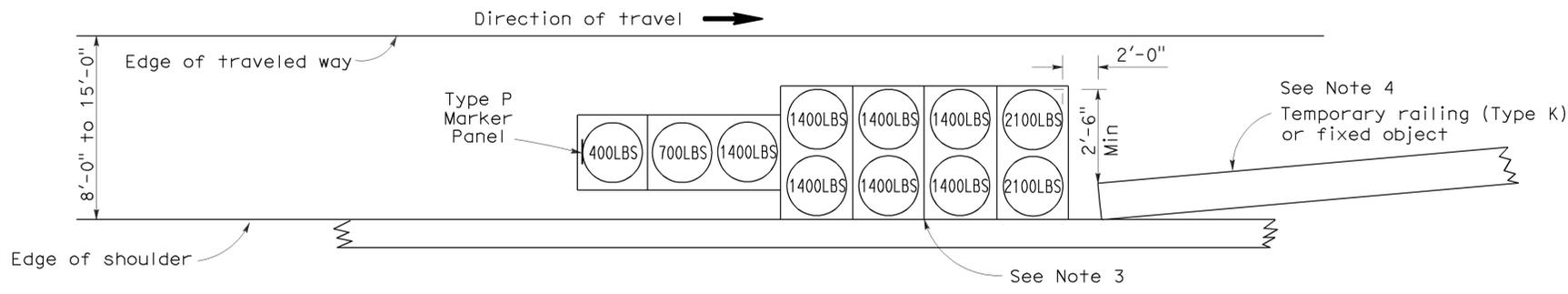
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

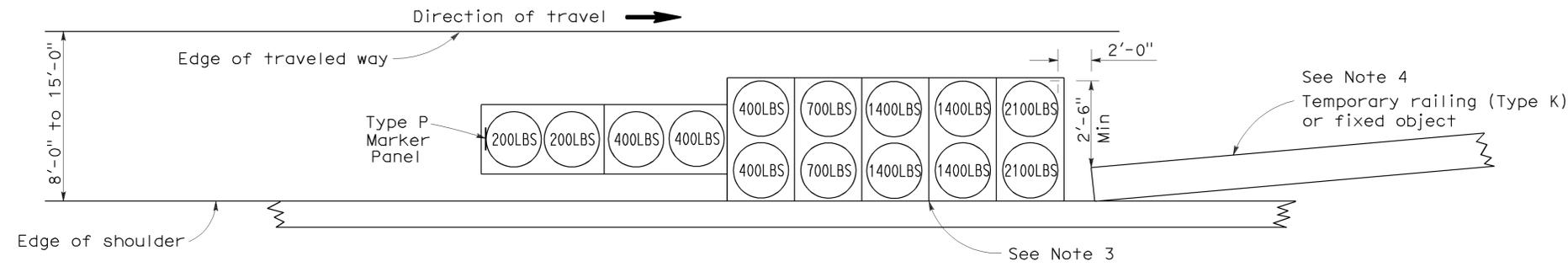
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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To accompany plans dated 10-17-11



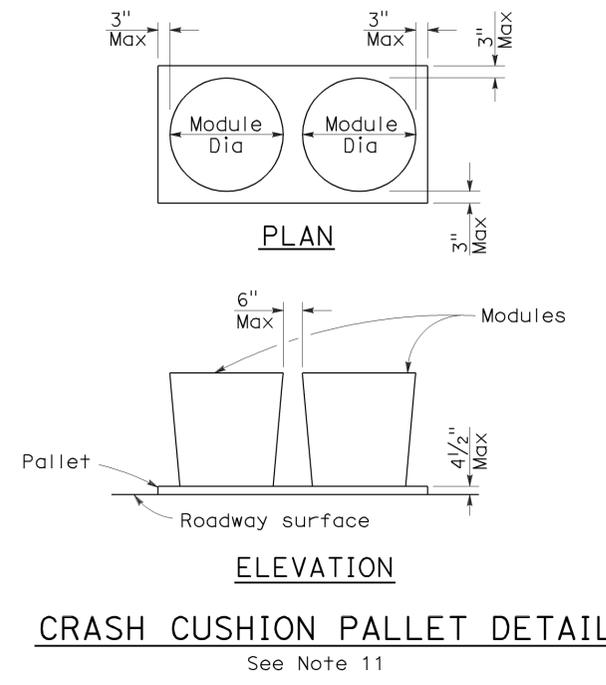
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



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

**NOTES:**

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



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

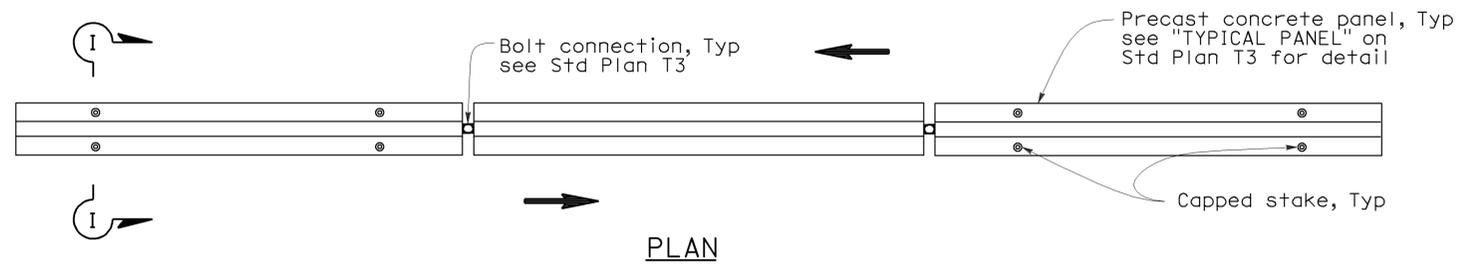
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	223	1.8/4.0, R10.5/20.1	10	10

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

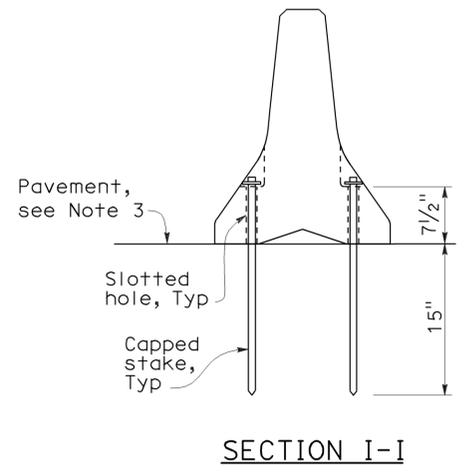
May 20, 2011  
PLANS APPROVAL DATE

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To accompany plans dated 10-17-11

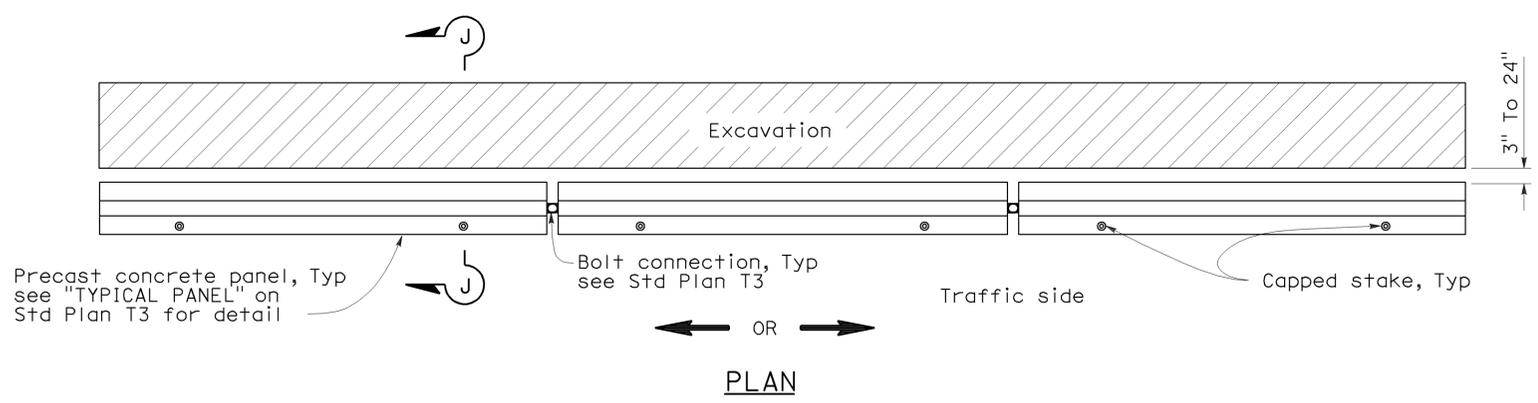


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

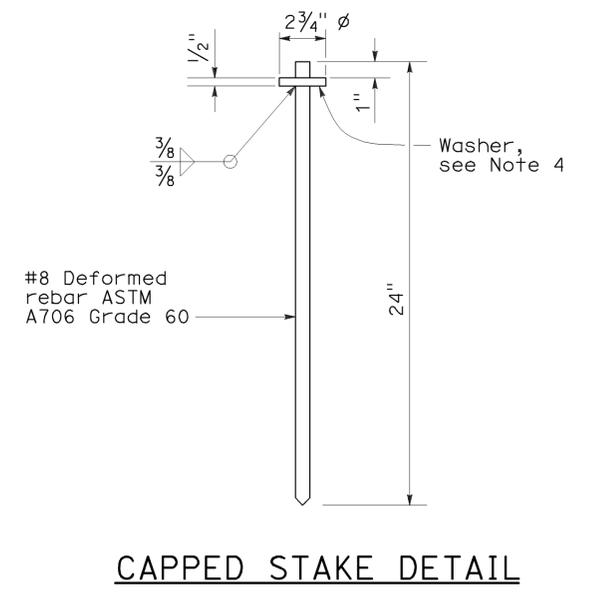
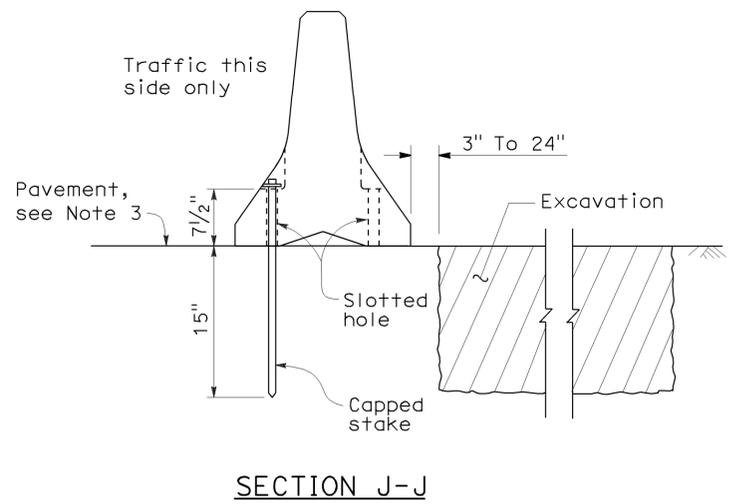


**NOTES:**

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by  $\Rightarrow$ .



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**  
See Note 2



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING  
(TYPE K)**

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A