

INDEX OF PLANS

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2	TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS
3	CONSTRUCTION AREA SIGNS
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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 KINGS COUNTY IN AND NEAR AVENAL  
FROM 0.3 MILE NORTH OF UTICA AVENUE  
TO FRESNO COUNTY LINE**

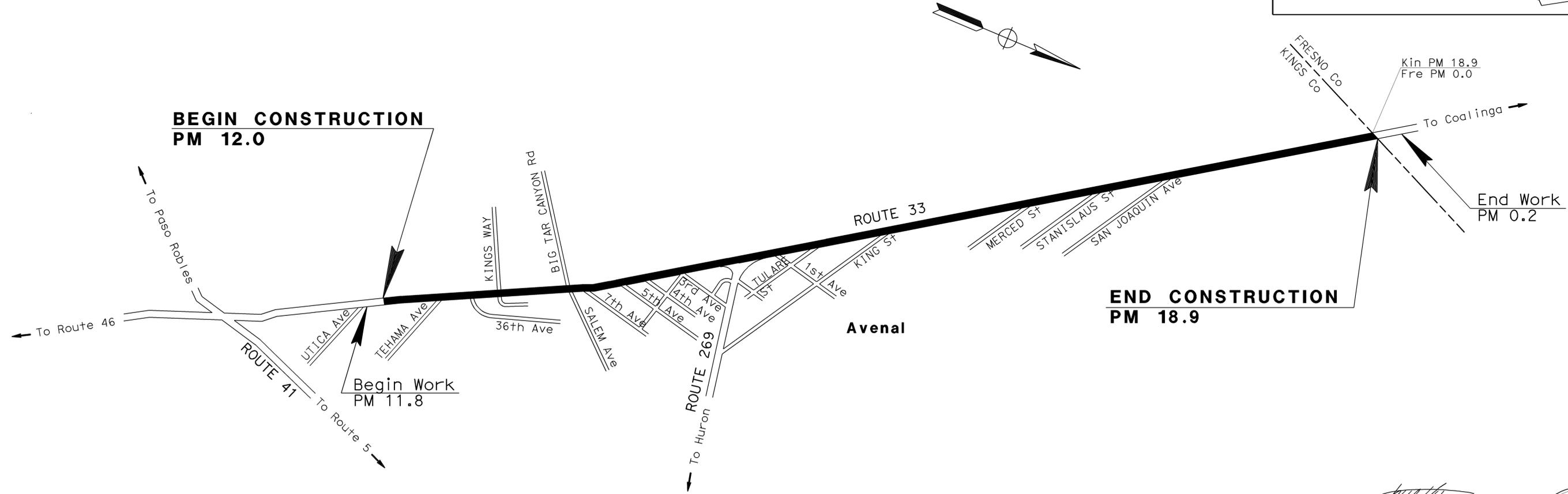
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	33	12.0/18.9	1	8





LOCATION MAP



PROJECT MANAGER  
**BILL MOSES**

DESIGN ENGINEER  
**FRANK GONZALEZ**

  
 PROJECT ENGINEER DATE 1-18-11  
 REGISTERED CIVIL ENGINEER  
**SHUE X. VUE**  
 No. 63657  
 Exp. 09/30/12  
 CIVIL  
 STATE OF CALIFORNIA

January 31, 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.	<b>06-OM6404</b>
PROJECT ID	<b>0600020405</b>

DATE PLOTTED => 03-FEB-2011  
TIME PLOTTED => 13:14  
LAST REVISION 01-18-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	33	12.0/18.9	2	8

REGISTERED CIVIL ENGINEER	DATE
1-18-11	
PLANS APPROVAL DATE	
1-31-11	

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

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**NOTES:**

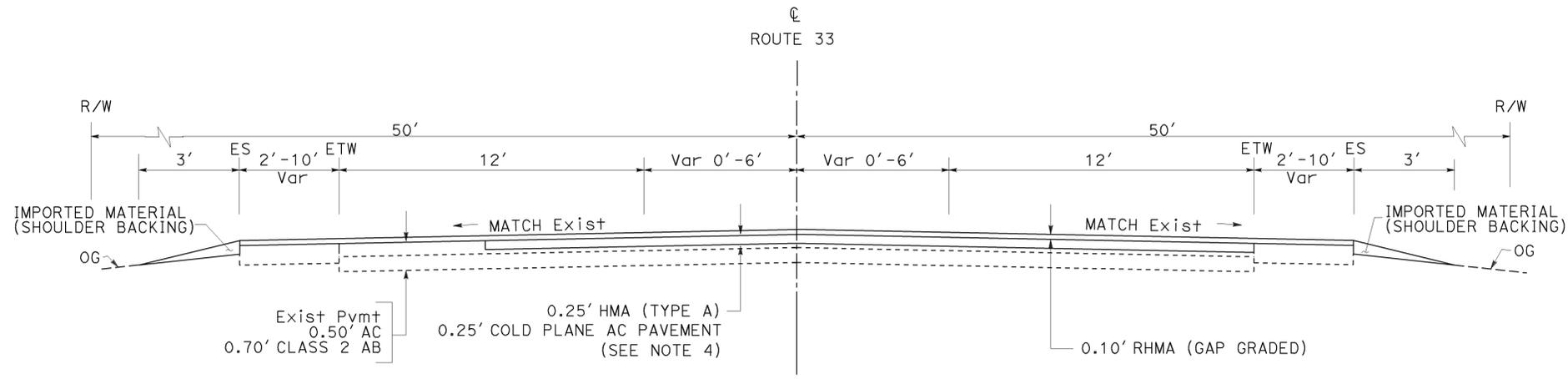
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR LOCATIONS AND DIMENSIONS OF COLD PLANE AC Pvmt, SEE SHEET Q-1.

**LEGEND**

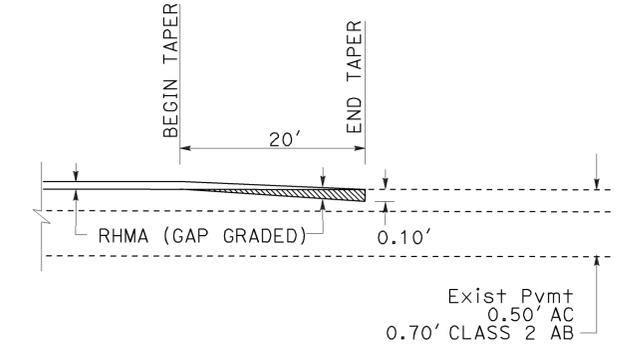
- RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
- COLD PLANE AC Pvmt 0.10' Max
- COLD PLANE AC Pvmt 0.25' Max

**ABBREVIATION:**

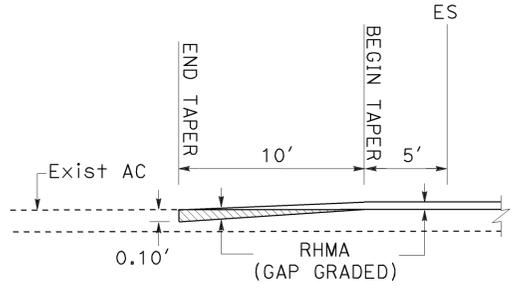
RHMA- RUBBERIZED HOT MIX ASPHALT



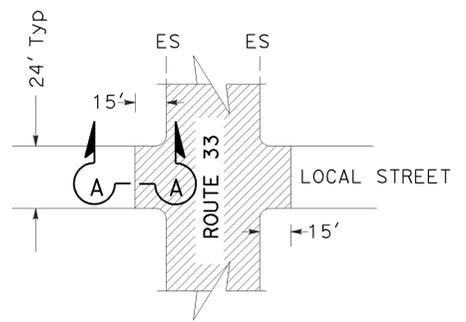
**ROUTE 33**  
PM 12.0 TO 18.9



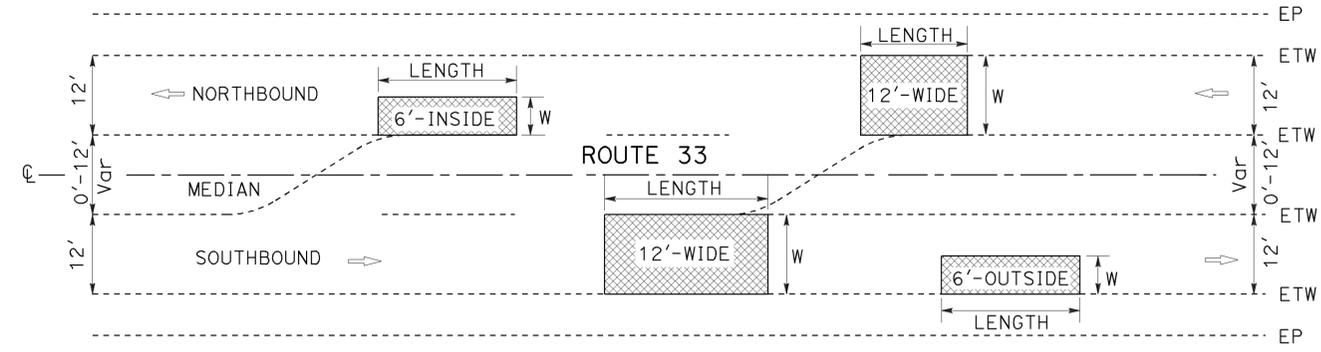
**TYPICAL TAPER AT TRANSVERSE JOINTS**  
(PM 12.0, PM 18.9)



SECTION A-A



**LOCAL STREET/INTERSECTION**  
**(TYPICAL DETAIL)**



**COLD PLANE DETAILS**  
SEE COLD PLANE AC PAVEMENT TABLE (DIGOUTS).

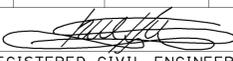
**TYPICAL CROSS SECTION**  
**AND CONSTRUCTION DETAILS**  
**X-1**

NO SCALE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	33	12.0/18.9	3	8

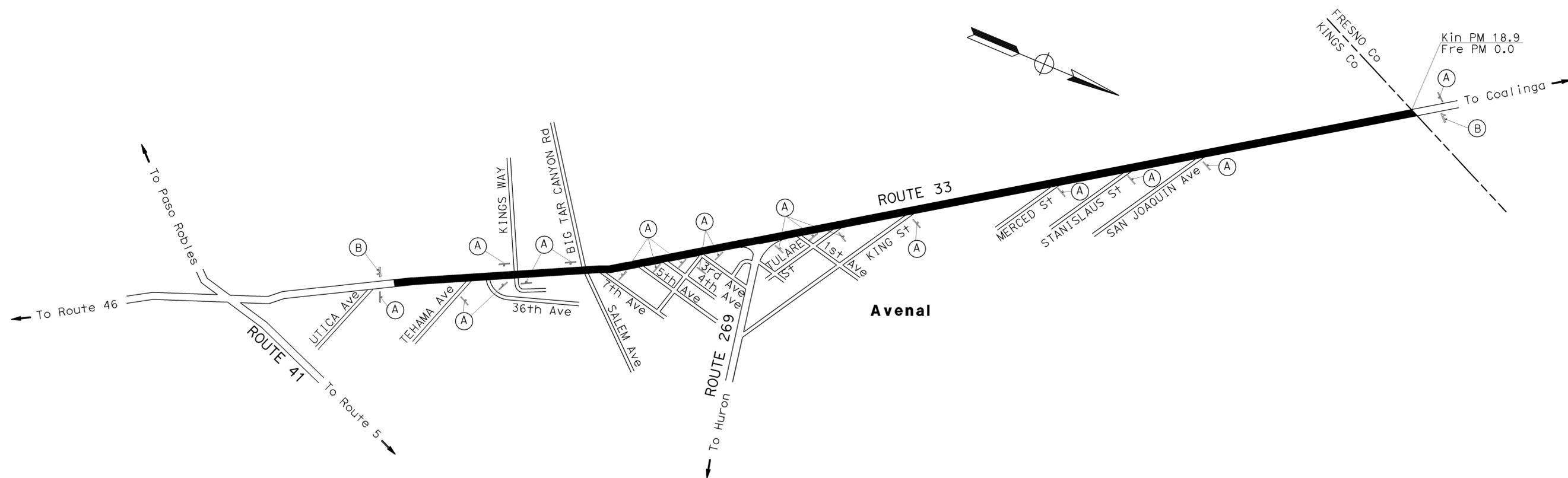
 REGISTERED CIVIL ENGINEER DATE 1-18-11		
PLANS APPROVAL DATE 1-31-11		

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.

### 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	1 - 4" x 6"	19
(B)	G20-2	48" x 18"	END ROAD WORK	2 - 4" x 4"	2

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



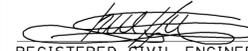
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: FRANK GONZALEZ  
 BEGERED GHAZI  
 SHUE VUE  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 REVISED BY: DATE REVISED:

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

THIS PLAN IS ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 03-FEB-2011  
 01-18-11 | TIME PLOTTED => 13:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	33	12.0/18.9	4	8

 1-18-11  
 REGISTERED CIVIL ENGINEER DATE

1-31-11  
 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.

REGISTERED PROFESSIONAL ENGINEER  
 SHUE X. VUE  
 No. 63657  
 Exp. 09/30/12  
 CIVIL  
 STATE OF CALIFORNIA

### COLD PLANE AC PAVEMENT

ROUTE 33 (NORTHBOUND)						ROUTE 33 (SOUTHBOUND)					
BEGIN (PM)	END (PM)	LENGTH	AREA			BEGIN (PM)	END (PM)	LENGTH	AREA		
			SQYD						SQYD		
			LF	6'-INSIDE	6'-OUTSIDE				12'-WIDE	LF	6'-INSIDE
17.253	17.364	586			781	18.991	18.974	90			120
17.450	17.503	280			373	18.970	18.699	1,431			1,908
17.560	18.057	2,624			3,499	18.688	18.669	100			134
18.332	18.474	750			1,000	18.651	18.471	950			1,267
18.503	18.512	48			63	18.456	18.418	201			268
18.521	18.570	259			345	18.400	18.263	723			965
18.606	18.615	48			63	18.251	18.192	312			415
18.633	18.787	813			1,084	18.182	18.150	169			225
18.820	18.835	79			106	18.141	17.853	1,521			2,028
18.877	18.890	69			92	17.842	17.613	1,209			1,612
18.908	18.994	454			605	17.364	17.253	586			781
						17.042	16.987	290		194	
						13.540	13.532	42	28		
						13.475	13.465	53	35		
						13.410	13.377	174	116		
						13.016	13.000	85	56		
SUBTOTAL					8,011				235	194	9,723
TOTAL			18,163*								

\*QUANTITIES INCLUDED IN ROADWAY QUANTITIES TABLE, SEE SHEET Q-2

### CRACK TREATMENT

ROUTE 33 (NORTHBOUND)			ROUTE 33 (SOUTHBOUND)		
BEGIN (PM)	END (PM)	LANE MILES	BEGIN (PM)	END (PM)	LANE MILES
12.685	12.957	0.272	17.254	17.042	0.212
13.809	15.173	1.364	16.921	16.912	0.009
16.430	17.253	0.823	15.943	15.892	0.051
			13.796	13.786	0.010
			13.774	13.752	0.022
			12.952	12.948	0.004
			12.709	12.698	0.011
			12.658	12.650	0.008
SUBTOTAL		2.459			0.327
TOTAL		2.786			

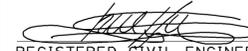
### PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE)			REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE				REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER		
		TYPE D (TWO-WAY YELLOW)	TYPE H (ONE-WAY YELLOW)	TYPE G (ONE-WAY CLEAR)		4" SOLID	4" BROKEN (12-3)	4" BROKEN (36-12)	8" SOLID					
		EA	EA	EA		LF	LF	LF	LF					
ROUTE 33	6	498						23,813		4 - TYPE III (L)	168	4 - TYPE III (L)	168	498
	19	43	85			2,007		2,007		16 - "STOP"	352	16 - "STOP"	352	128
	22	693				16,580				15 - LIMIT LINE	240	15 - LIMIT LINE	240	693
	27B					72,864								
	27C							2904						
	29	29				634								29
	34	12		23		528			528					35
	38				34	1584				792				34
SUBTOTAL		1275	108	34	1584	92,613	2904	26,348	792		760		760	1417
TOTAL		1417			1584	92,613	2904	26,348	792		760		760	1417

## SUMMARY OF QUANTITIES

### Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	33	12.0/18.9	5	8

 1-18-11  
 REGISTERED CIVIL ENGINEER DATE

1-31-11  
 PLANS APPROVAL DATE

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### ROADWAY QUANTITIES

LOCATION	COLD PLANE AC PAVEMENT	TACK COAT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	IMPORTED MATERIAL (SHOULDER BACKING)
	SQYD	TON	TON	TON	TON
ROUTE 33 PM 12.0 TO PM 18.9		39.00	7354.00	2,861	880
FROM COLD PLANE AC PAVEMENT TABLE	18,163				
ROUTE 33 LONGITUDINAL TAPERS (PM 12.0, PM 18.9)	124				
ROUTE 33/TEHEMA Ave INTERSECTION (PM 14.07)	27	0.01	2.52		
ROUTE 33/36th Ave INTERSECTION (PM 14.44)	27	0.01	2.52		
ROUTE 33/KINGS Way INTERSECTION (PM 14.97)	54	0.02	5.04		
ROUTE 33/BIG TAR CANYON Rd INTERSECTION (PM 16.37)	54	0.02	5.04		
ROUTE 33/7TH Ave INTERSECTION (PM 16.47)	27	0.01	2.52		
ROUTE 33/5TH Ave INTERSECTION (PM 16.68)	27	0.01	2.52		
ROUTE 33/4TH Ave INTERSECTION (PM 16.81)	27	0.01	2.52		
ROUTE 33/3RD Ave INTERSECTION (PM 16.93)	27	0.01	2.52		
ROUTE 33/ROUTE 269 INTERSECTION (PM 17.10)	27	0.01	2.52		
ROUTE 33/1ST Ave INTERSECTION (PM 17.12)	27	0.01	2.52		
ROUTE 33/TULARE St INTERSECTION (PM 17.17)	27	0.01	2.52		
ROUTE 33/KING St INTERSECTION (17.25)	27	0.01	2.52		
ROUTE 33/MERCED St INTERSECTION (PM 17.54)	27	0.01	2.52		
ROUTE 33/STANISLAUS St INTERSECTION (PM 17.65)	27	0.01	2.52		
ROUTE 33/SAN JOAQUIN Ave INTERSECTION (PM 17.67)	27	0.01	2.52		
<b>TOTAL</b>	<b>18,746</b>	<b>40.00</b>	<b>7397.00</b>	<b>2,861</b>	<b>880</b>

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

## SUMMARY OF QUANTITIES Q-2

LAST REVISION | DATE PLOTTED => 03-FEB-2011  
 01-18-11 | TIME PLOTTED => 13:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	33	12.0/18.9	6	8

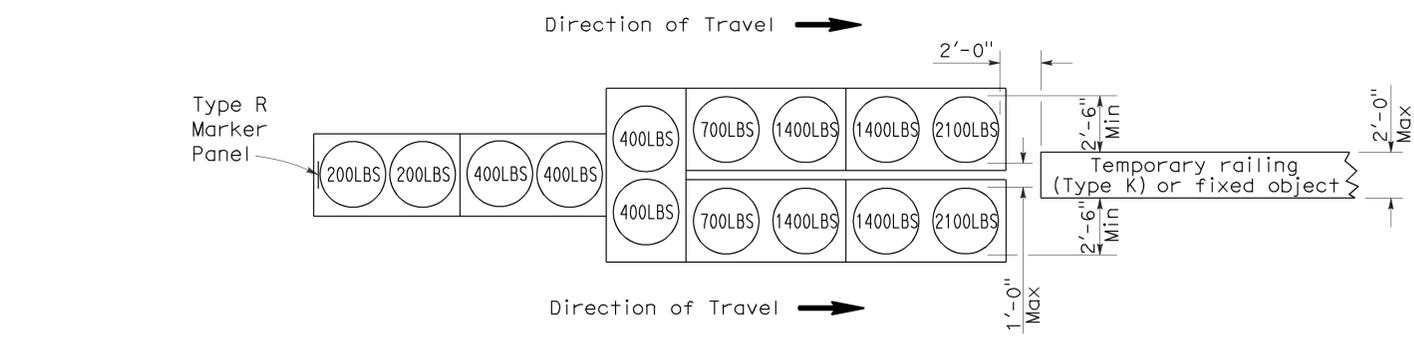
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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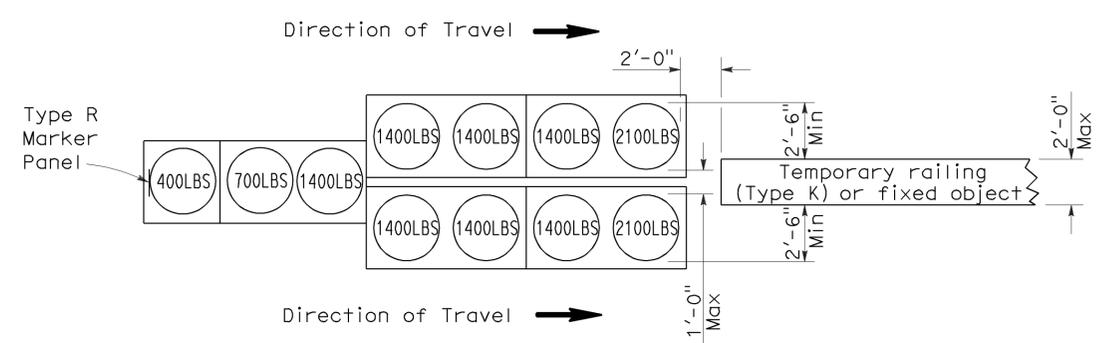
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 1-31-11



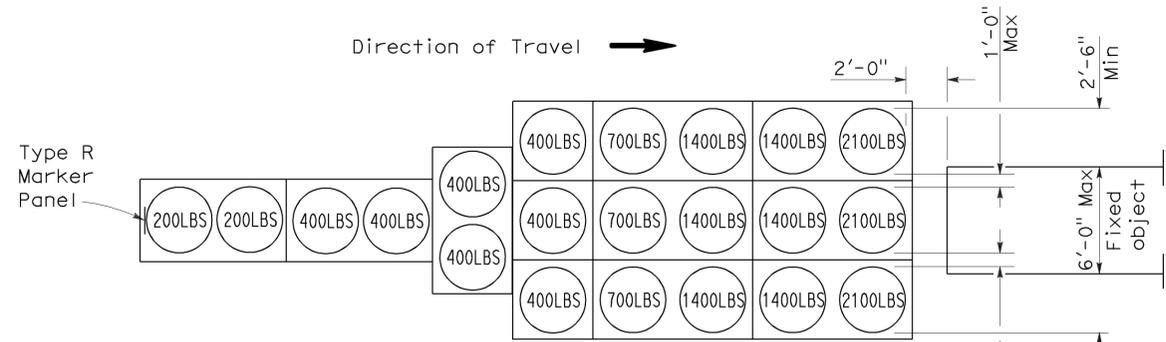
**ARRAY 'TU14'**

Approach speed 45 mph or more



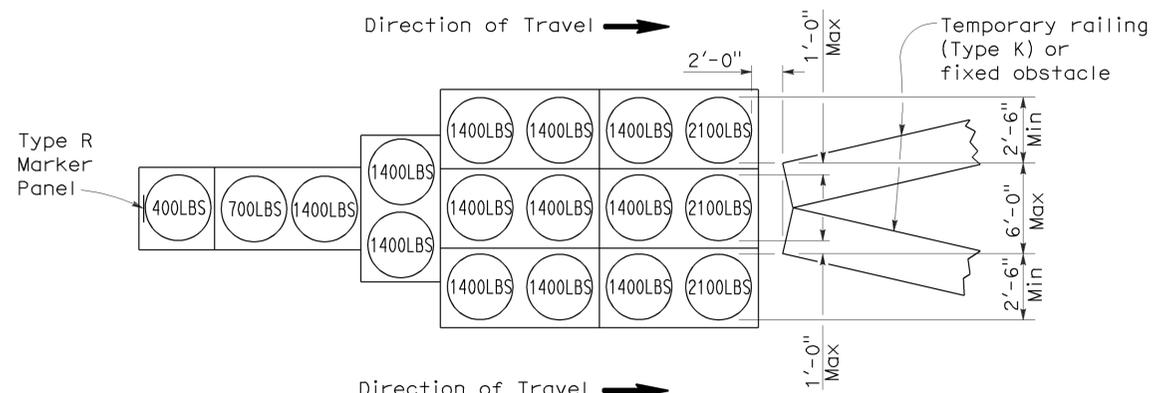
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more

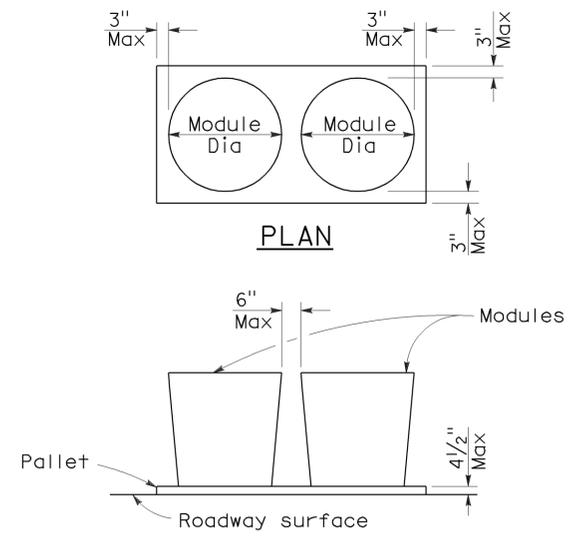


**ARRAY 'TU17'**

Approach speed less than 45 mph

**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.



**CRASH CUSHION PALLET DETAIL**  
See Note 7

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	Kin	33	12.0/18.9	7	8

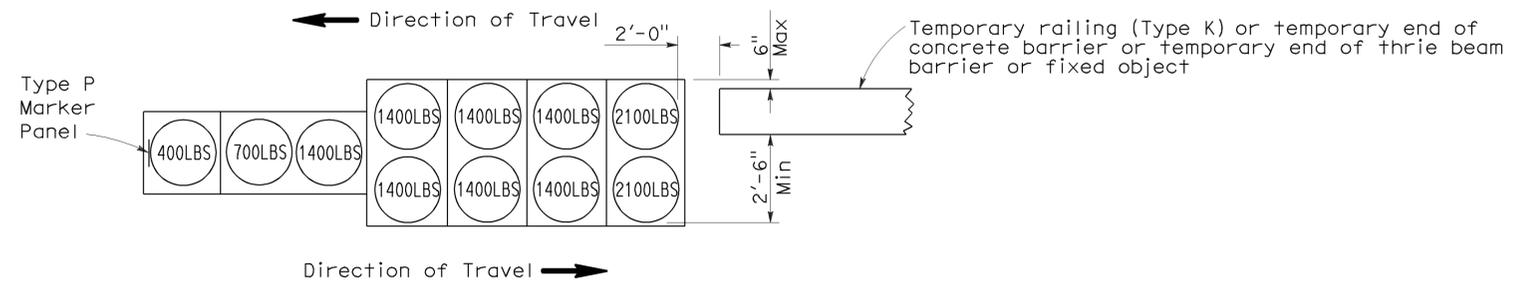
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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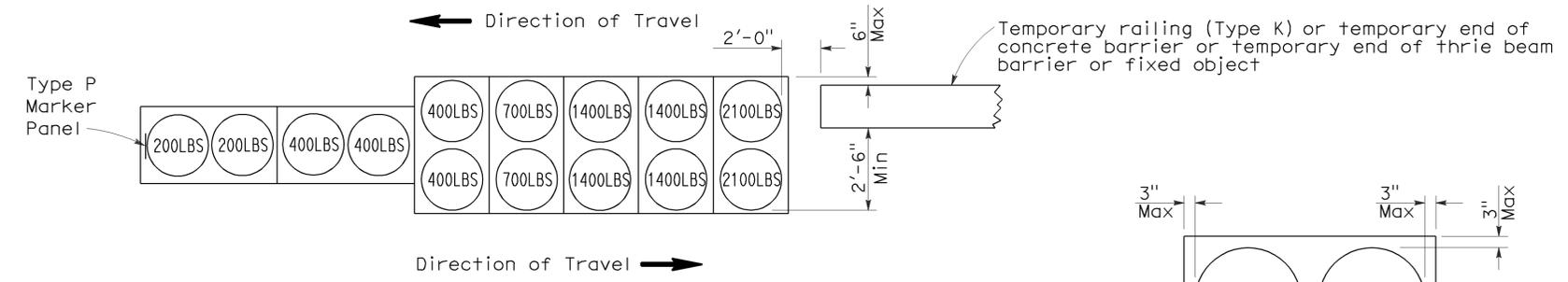
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 1-31-11



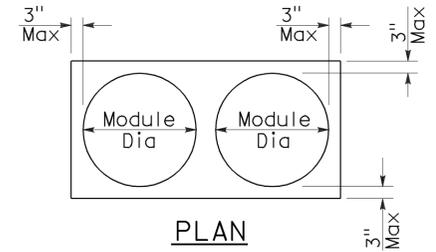
**ARRAY 'TB11'**

Approach speed less than 45 mph

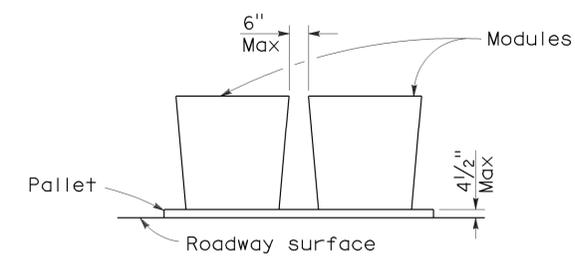


**ARRAY 'TB14'**

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

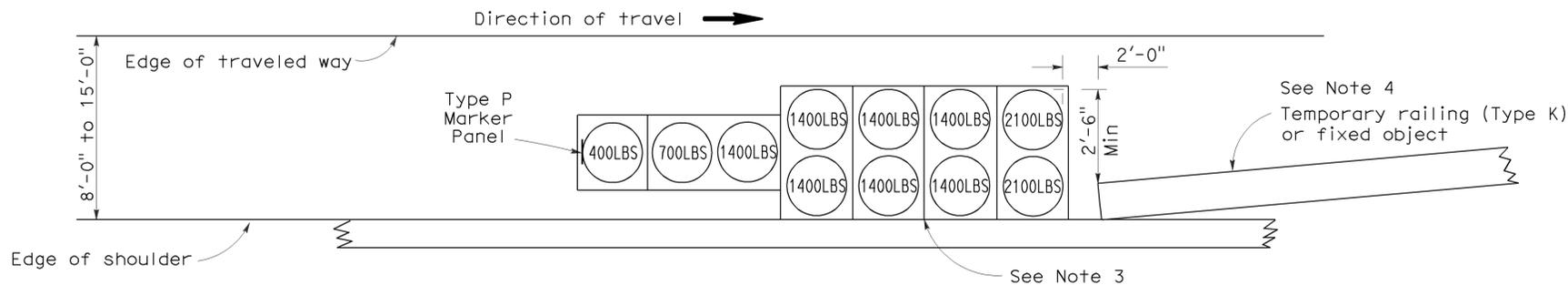
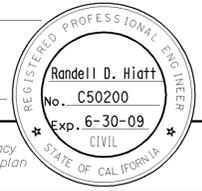
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	33	12.0/18.9	8	8

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

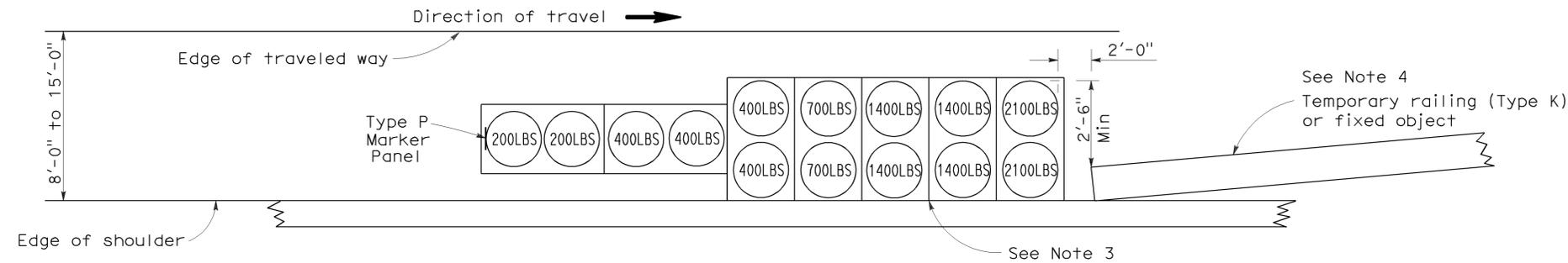
June 6, 2008  
PLANS APPROVAL DATE

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To accompany plans dated 1-31-11



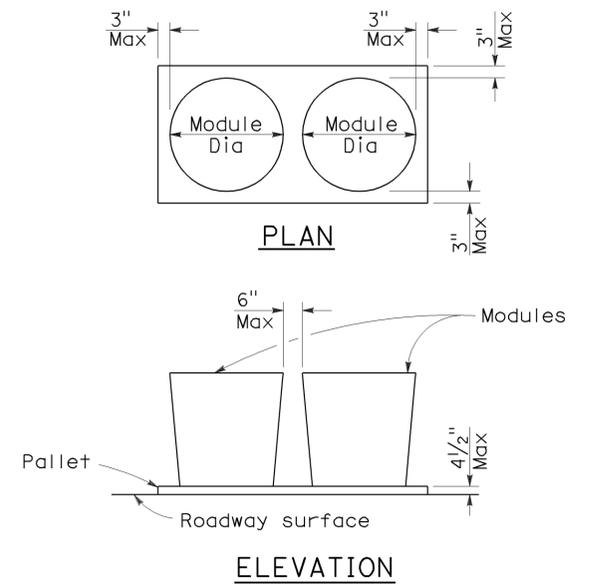
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**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.



**CRASH CUSHION PALLET DETAIL**  
See Note 11

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