Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	5	37.2/48.6	1	8

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	SUMMARY OF QUANTITIES
6-8	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACTIS INCLUDED IN THE NOTICE TO BIDDERSAND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA

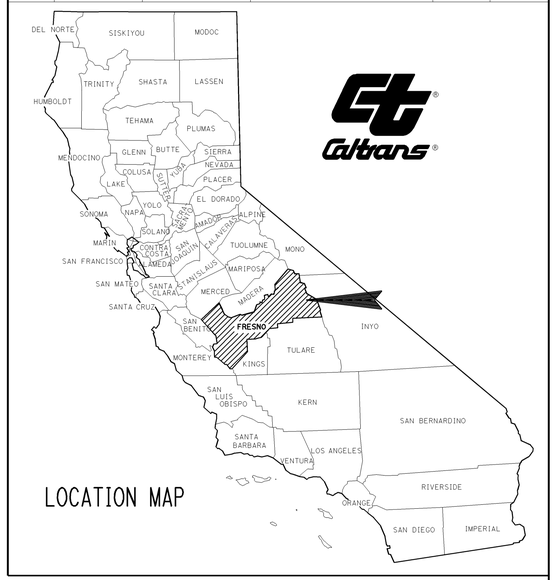
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

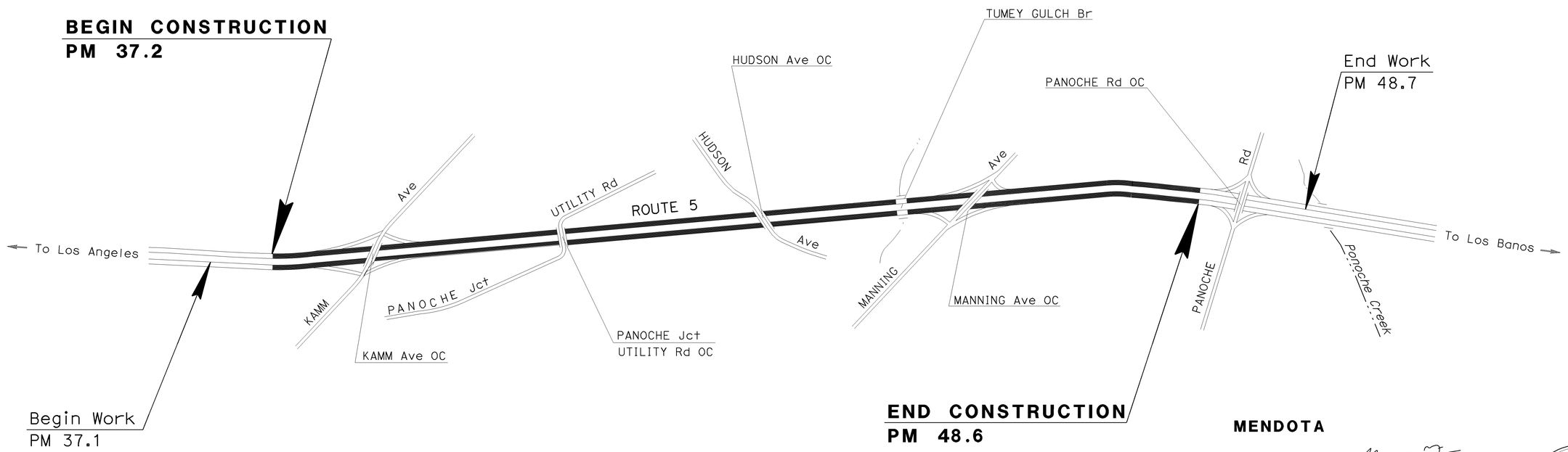
STATE HIGHWAY

IN FRESNO COUNTY NEAR MENDOTA
FROM 1.2 MILE SOUTH OF KAMM AVENUE OVERCROSSING
TO 0.4 MILE SOUTH OF PANOCHE ROAD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION MAP



NO SCALE

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

PROJECT MANAGER VICTOR SHAW

DESIGN ENGINEER RENE SANCHEZ

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 1-19-10

February 1, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARYAM RASTEGAR — No. 65550 — 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.

LAST REVISION 01-26-10 — DATE PLOTTED => 28-JAN-2010 — TIME PLOTTED => 13:26

CONTRACT No. 06-0L0904

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	5	37.2/48.6	2	8

REGISTERED CIVIL ENGINEER 1-19-10 DATE

2-01-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

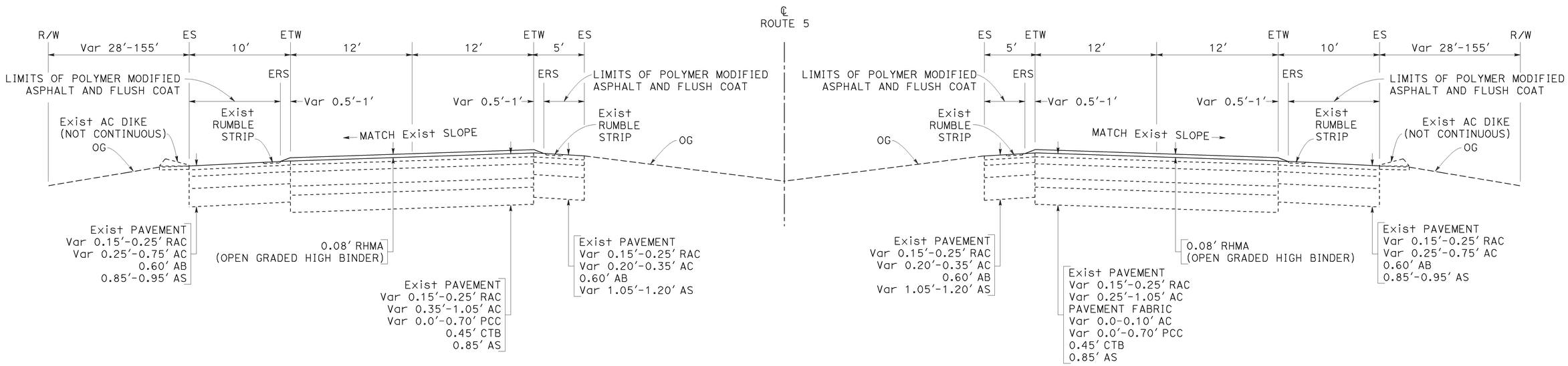
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
5. MAINTAIN THE EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENT (CHANGEABLE MESSAGE SIGN) AT PM 47.2 DURING CONSTRUCTION.

ABBREVIATIONS

RAC	RUBBERIZED ASPHALT CONCRETE
RHMA	RUBBERIZED HOT MIX ASPHALT
ERS	EDGE OF RUMBLE STRIP



SOUTHBOUND

ROUTE 5

PM 37.2 TO PM 48.6

NORTHBOUND

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ

CALCULATED-DESIGNED BY: MARYAM RASTEGAR

CHECKED BY: RENE SANCHEZ

REVISED BY

DATE REVISED

LAST REVISION 02-01-10

DATE PLOTTED => 01-FEB-2010

TIME PLOTTED => 10:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	5	37.2/48.6	3	8

REGISTERED CIVIL ENGINEER 1-19-10 DATE

2-01-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

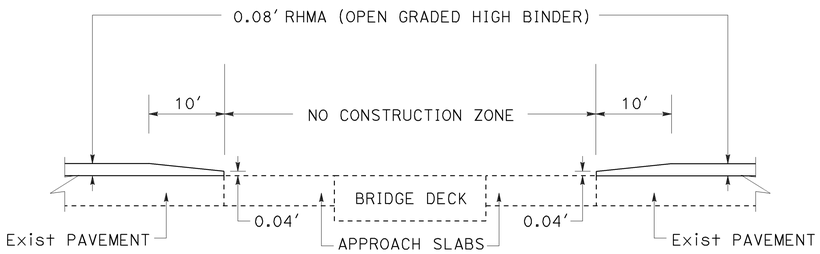
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

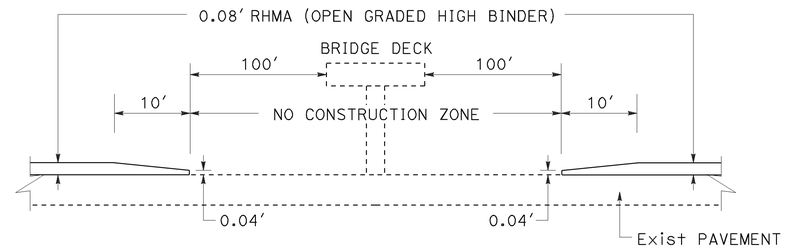
- 0.08′ RHMA (OPEN GRADED HIGH BINDER)
- POLYMER MODIFIED ASPHALT AND FLUSH COAT
- DIRECTION OF TRAFFIC

ABBREVIATION

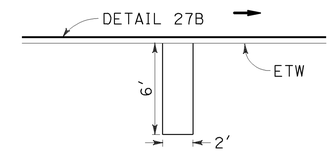
RHMA = RUBBERIZED HOT MIX ASPHALT



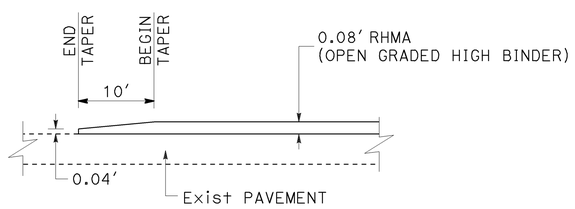
TYPICAL TAPER AT BRIDGE APPROACH



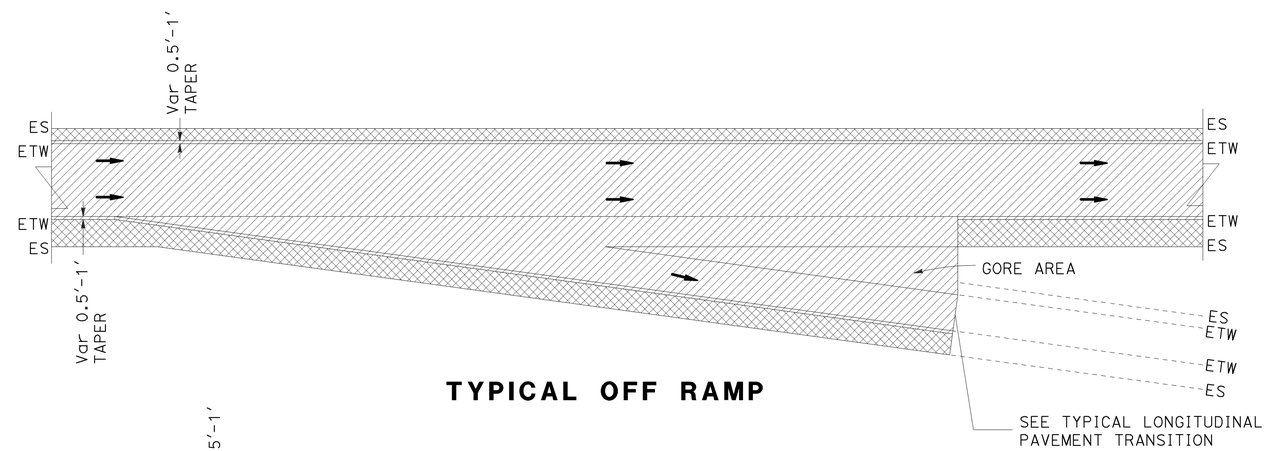
TYPICAL TAPER AT OVERCROSSING



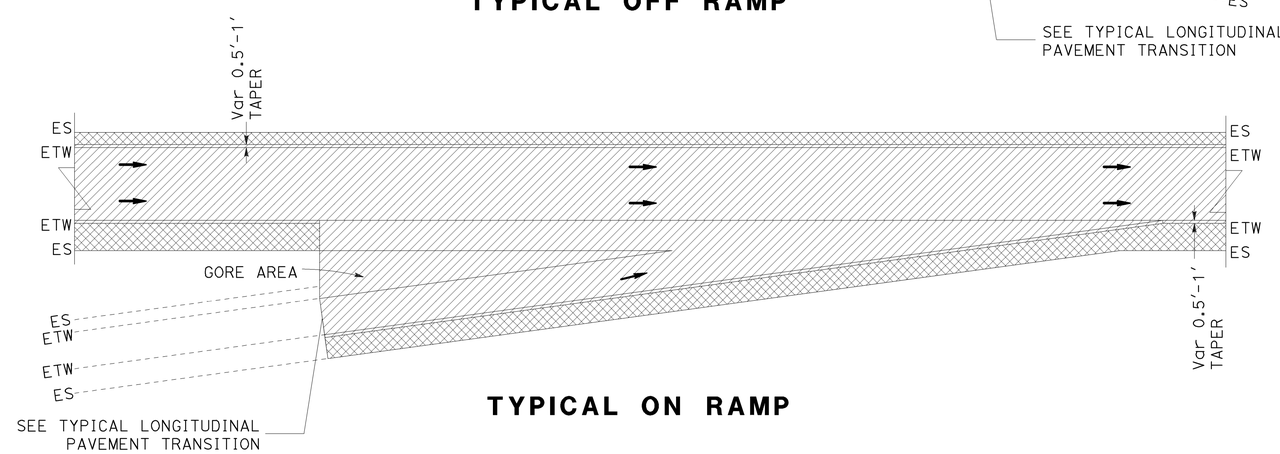
CHP MARKING DETAIL



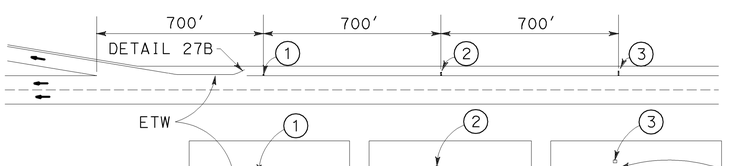
TYPICAL LONGITUDINAL PAVEMENT TRANSITION



TYPICAL OFF RAMP



TYPICAL ON RAMP



CLEAR RETROREFLECTIVE TYPE G PAVEMENT MARKERS AT 12" SPACING CENTER TO CENTER AND 8" FROM CENTER OF RUMBLE STRIP.

ADVANCE MARKER DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 01-19-10 | DATE PLOTTED => 29-JAN-2010 | TIME PLOTTED => 09:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	5	37.2/48.6	4	8

1-19-10
REGISTERED CIVIL ENGINEER DATE

2-01-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

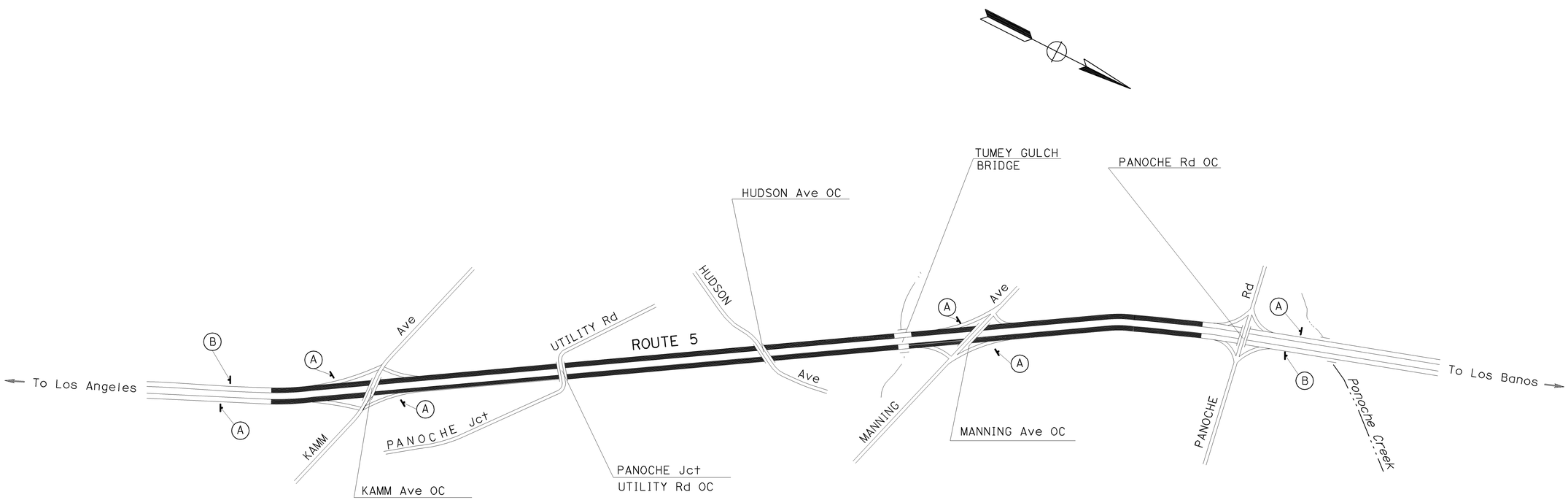
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST	POST SIZE	No. OF SIGNS
A	W20-1	48'' x 48''	ROAD WORK AHEAD	1	4" x 6"	6
B	G20-2	48" x 24"	END ROAD WORK	1	4" x 6"	2



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

NO SCALE

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 01-19-10
DATE PLOTTED => 26-JAN-2010
TIME PLOTTED => 13:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	5	37.2/48.6	5	8

REGISTERED CIVIL ENGINEER 1-19-10 DATE

2-01-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 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.

ROADWAY QUANTITIES

LOCATION	SAND COVER	ASPHALTIC EMULSION (FOG SEAL COAT)	ASPHALT BINDER (POLYMER MODIFIED)	SCREENINGS (MEDIUM)	RUBBERIZED HMA (OPEN GRADED HIGH BINDER)	TACK COAT
	TON	TON	TON	TON	TON	TON
PM 37.2 TO PM 48.6	337.6	60.2	250.8	2410.6	17696.4	70.2
RAMPS	6.4	1.2	4.8	47.2	259.4	1.1
TOTAL	344.0	61.4	255.6	2457.8	17955.8	71.3

RAMPS

LOCATION		SAND COVER	ASPHALTIC EMULSION (FOG SEAL COAT)	ASPHALT BINDER (POLYMER MODIFIED)	SCREENINGS (MEDIUM)	RUBBERIZED HMA (OPEN GRADED HIGH BINDER)	TACK COAT
		TON	TON	TON	TON	TON	TON
KAMM Ave	NB ON/OFF RAMP	1.6	0.3	1.2	11.8	42.3	0.2
KAMM Ave	SB ON/OFF RAMP	1.6	0.3	1.2	11.8	76.7	0.3
MANNING Ave	NB ON/OFF RAMP	1.6	0.3	1.2	11.8	97.0	0.4
MANNING Ave	SB ON/OFF RAMP	1.6	0.3	1.2	11.8	43.4	0.2
TOTAL		6.4 **	1.2**	4.8**	47.2**	259.4**	1.1**

** INCLUDED IN ROADWAY QUANTITIES TABLE

PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE)		THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING		REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER (N)
		TYPE G ONE-WAY CLEAR	TYPE H ONE-WAY YELLOW	4" (BROKEN 36-12)	4" (BROKEN 17-7)	4" WHITE	4" YELLOW	8" WHITE					
		EA	EA	LF	LF	LF	LF	LF	DESCRIPTION	SQFT	SQFT	LF	EA
PM 37.2 TO PM 48.6 NB	12	1255		60,192					11-CHP MARKING	132	132		1893
	25		1255				60,192						1893
	27B					60,192							
	36	44						1056				2112	75
	36A	22			634			528				1056	34
PM 37.2 TO PM 48.6 SB	12	1255		60,192					11-CHP MARKING	132	132		1893
	25		1255				60,192						1893
	27B					60,192							
	36	44						1056				2112	75
	36A	22			634			528				1056	46
SUB TOTAL		2642	2510	120,384	1268	120,384	120,384	3168		264	264	6336	
TOTAL		5152		120,384	1268	240,768		3168		264	264	6336	

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

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 01-19-10 DATE PLOTTED => 28-JAN-2010 TIME PLOTTED => 13:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	5	37.2/48.6	6	8

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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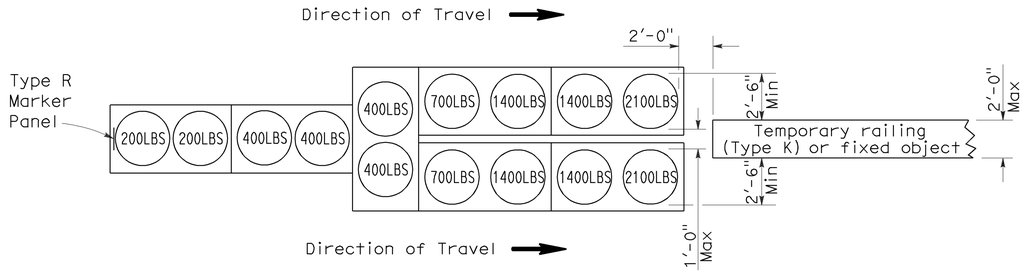
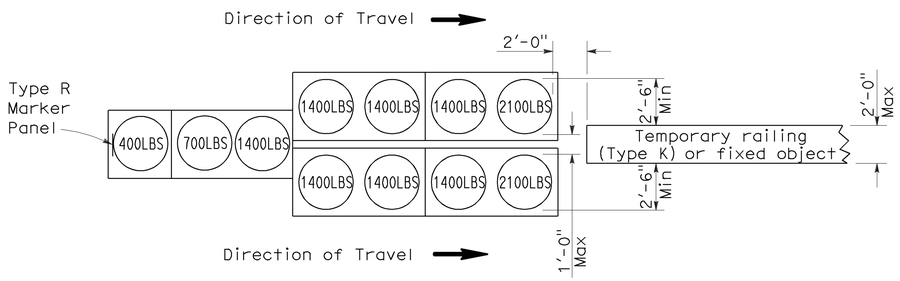
To accompany plans dated 2-01-10



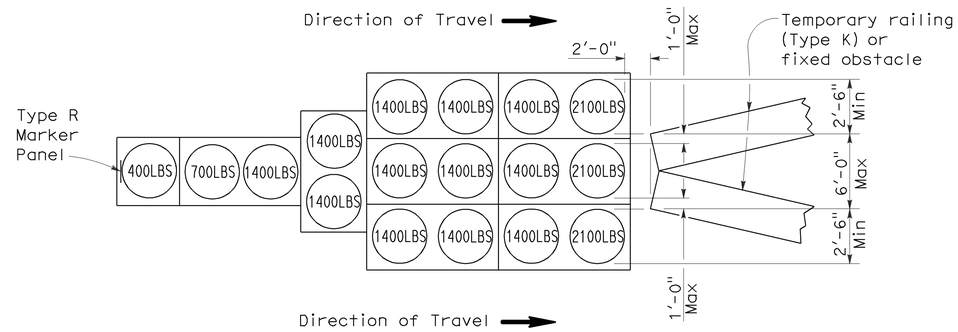
ARRAY 'TU14'

Approach speed 45 mph or more



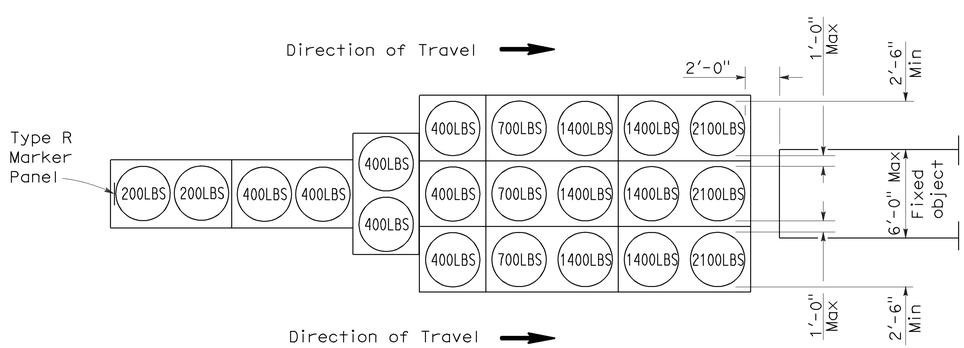
ARRAY 'TU11'

Approach speed less than 45 mph



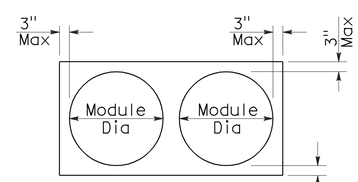
ARRAY 'TU17'

Approach speed less than 45 mph

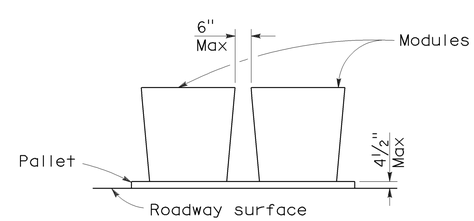


ARRAY 'TU21'

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

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	5	37.2/48.6	7	8

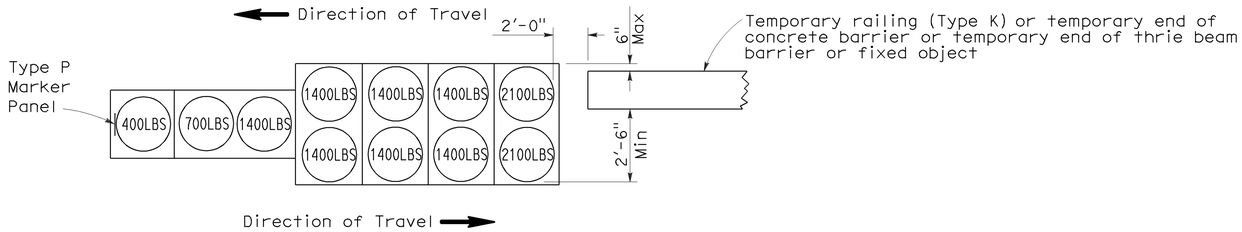
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

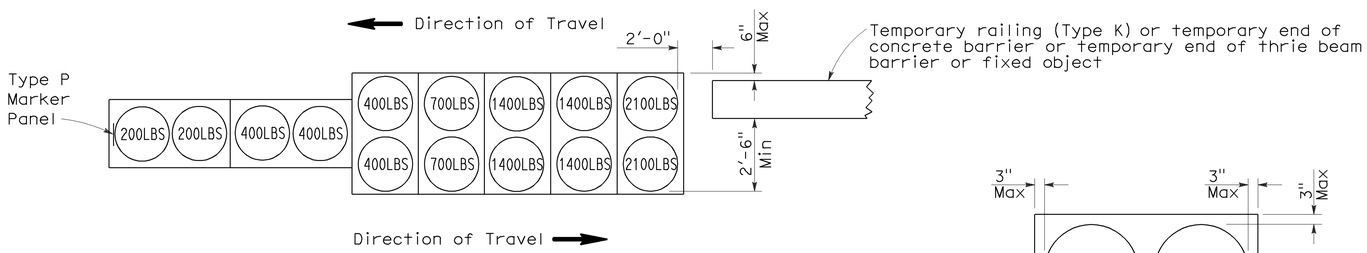
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-01-10



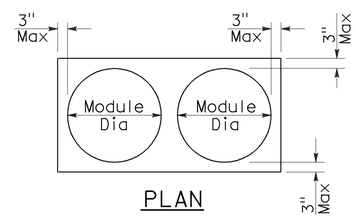
ARRAY 'TB11'

Approach speed less than 45 mph

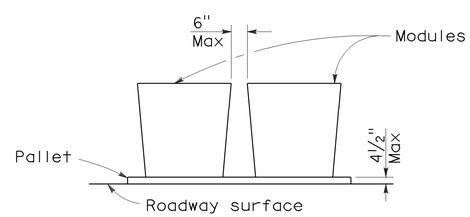


ARRAY 'TB14'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	5	37.2/48.6	8	8

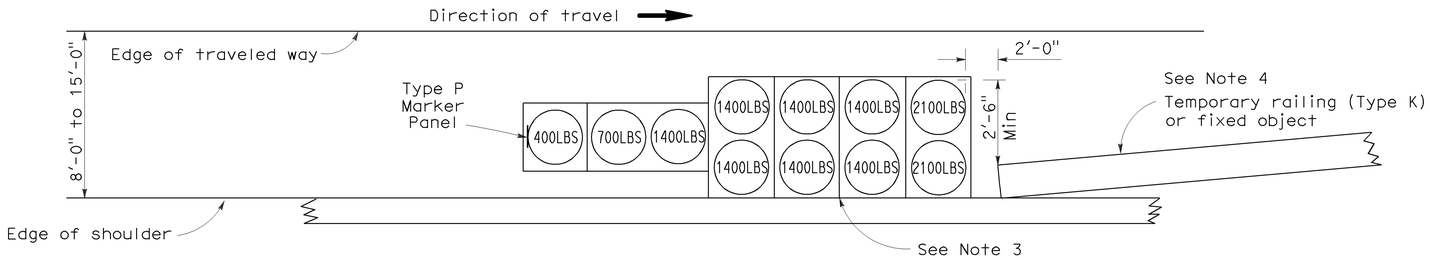
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

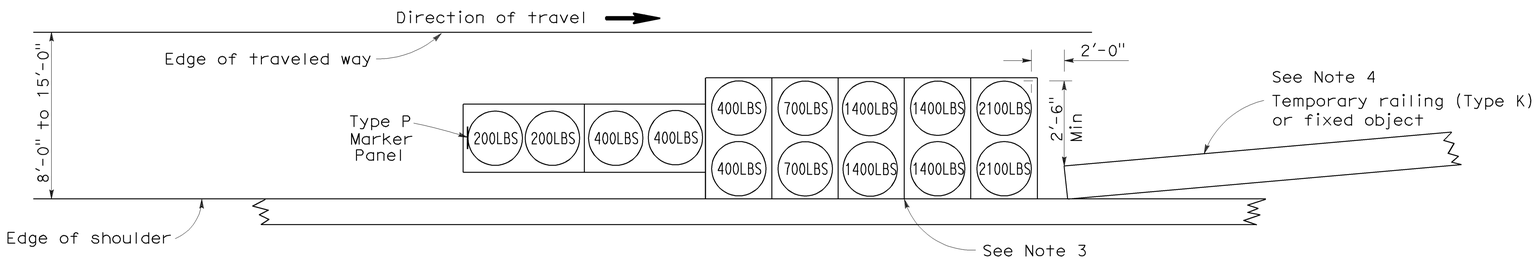
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-01-10



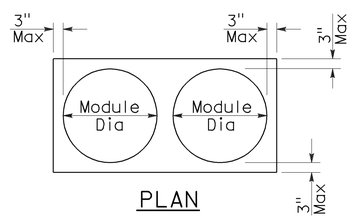
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

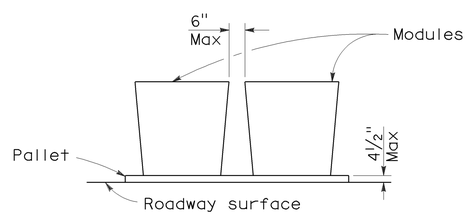


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. 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

5-15-08