Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	1	10

STATE OF CALIFORNIA **ACHSSTP-P074(053)E**

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

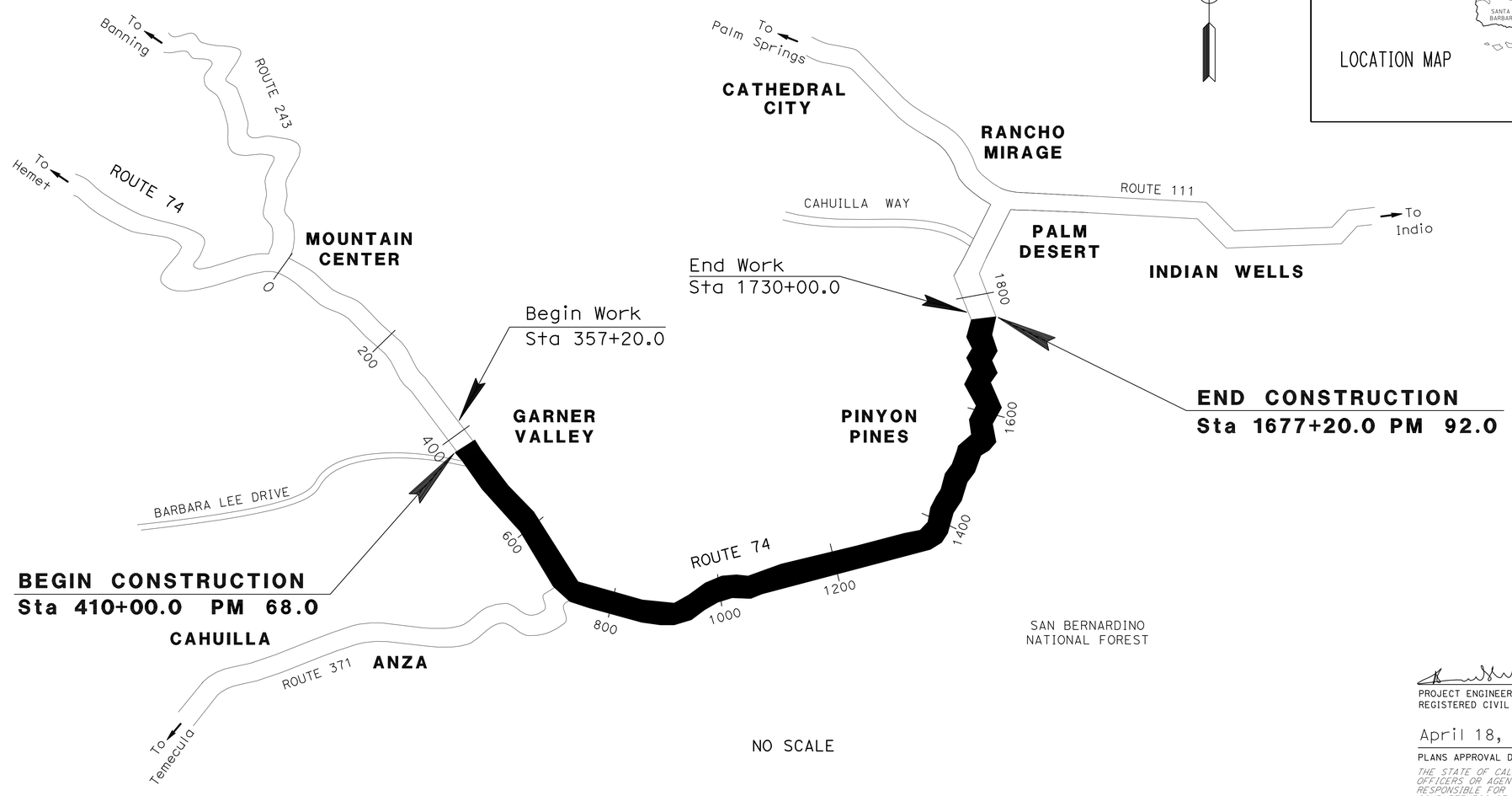
IN RIVERSIDE COUNTY
AT GARNER VALLEY AND PINYON PINES
FROM BARBARA LEE DRIVE
TO 1.4 MILES WEST OF CAHUILLA WAY

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6	PAVEMENT DELINEATION QUANTITIES
7	SUMMARY OF QUANTITIES
8-10	REVISED STANDARD PLANS

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



4-14-11

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

April 18, 2011

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — AWAIS SHEIKH — No. 65531 — 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.

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

CONTRACT No.	08-0M4904
PROJECT ID	0800000485

PROJECT MANAGER: ALI HADAVI

DESIGN ENGINEER: MYLINH NGUYEN

LAST REVISION 01-25-11

DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	2	10

REGISTERED CIVIL ENGINEER 4-14-11 DATE

4-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AWAIS SHEIKH No. 65531 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

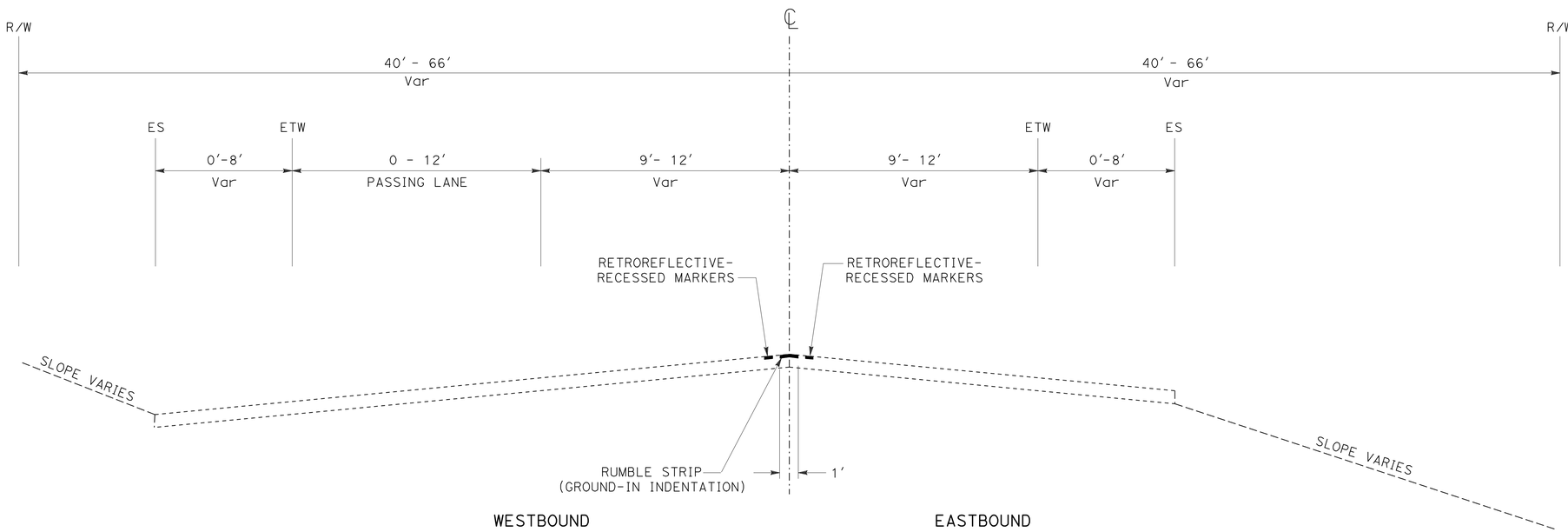
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. EXACT LIMITS OF WORK SHALL BE DETERMINED BY THE ENGINEER.

DESIGN DESIGNATION (SR-74)

ADT	(2011)	7,100
ADT	(2031)	11,800
DHV	(2031)	1,120
T	(2011)	7%
T	(2031)	7%



ROUTE 74

PM 68.0 TO PM 92.0
(Sta 410+00.0 TO Sta 1677+20.0)

TYPICAL CROSS SECTIONS

NO SCALE

EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® OPERATIONS SAFETY DESIGN

FUNCTIONAL SUPERVISOR: BEHZAD SEDIGHI
CALCULATED-DESIGNED BY: MYLINH NGUYEN
CHECKED BY: AWAIS SHEIKH
REVISED BY
DATE REVISED

LAST REVISION 01-20-11
DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	3	10

REGISTERED CIVIL ENGINEER 4-14-11 DATE

4-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AWAIS SHEIKH No. 65531 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

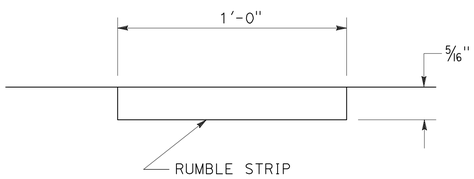
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

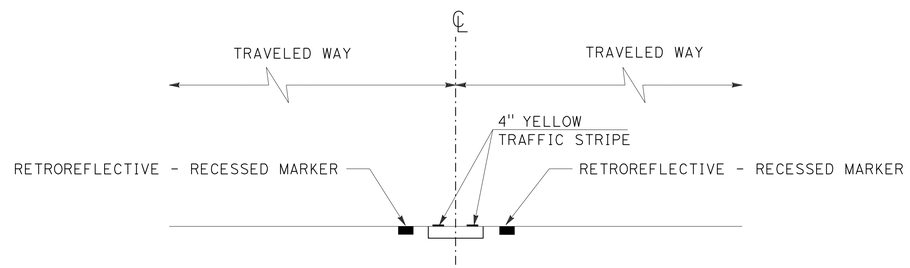
1. EXACT LIMITS SHALL BE DETERMINED BY ENGINEER.
2. FOR PROPOSED PAVEMENT DELINEATION SEE STANDARD PLAN A20A, A20B.

LEGEND

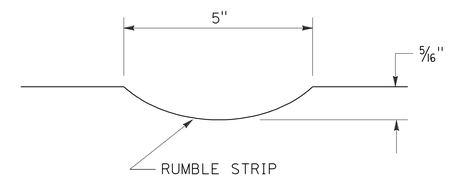
- RETROREFLECTIVE - RECESSED MARKERS
- 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE
- DIRECTION OF TRAVEL



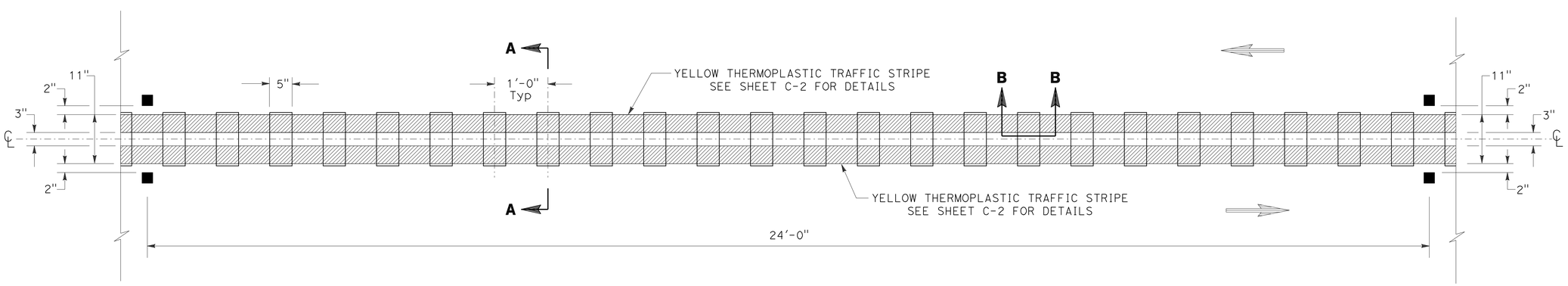
SECTION A-A



TYPICAL GROUND-IN RUMBLE STRIP CROSS SECTION



SECTION B-B



PLAN VIEW

ASPHALT CONCRETE SURFACING GROUND-IN INDENTATIONS

EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OPERATIONS SAFETY DESIGN

FUNCTIONAL SUPERVISOR: BEHZAD SEDIGHI
CALCULATED-DESIGNED BY: MYLINH NGUYEN
CHECKED BY: AWAIS SHEIKH
REVISED BY
DATE REVISED

LAST REVISION 01-25-11
DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:17

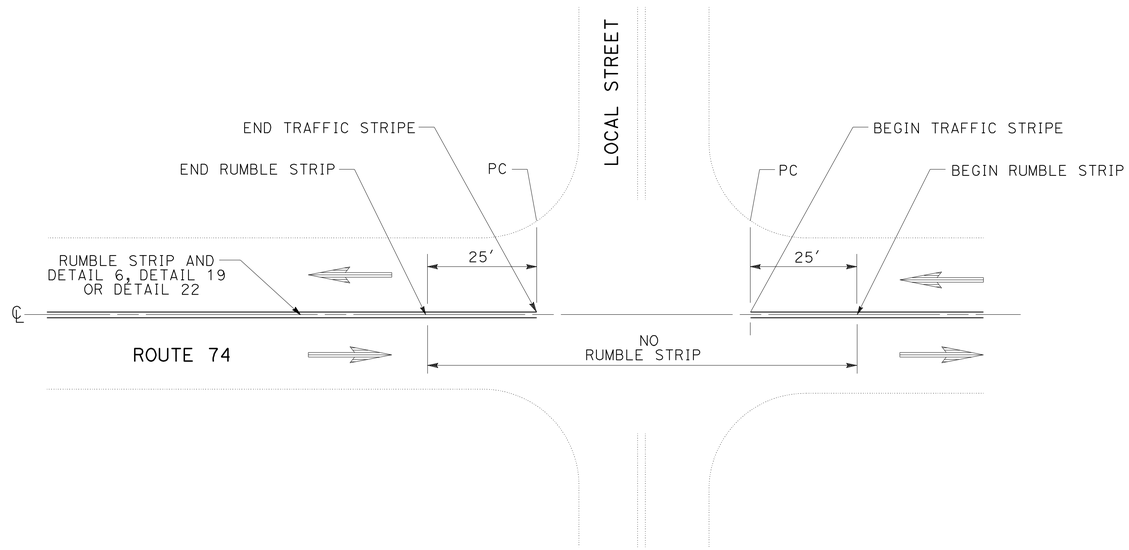
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	4	10

REGISTERED CIVIL ENGINEER 4-14-11 DATE

4-18-11
PLANS APPROVAL DATE

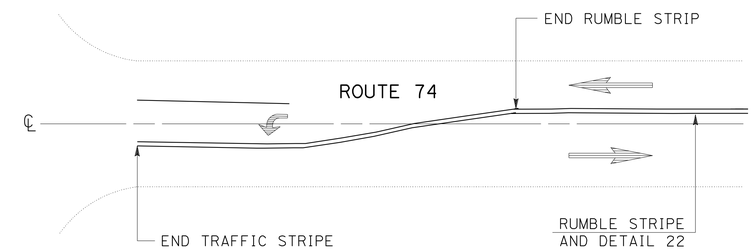
REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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.



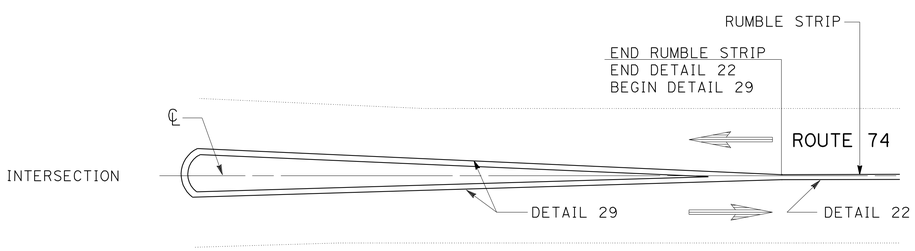
TYPICAL RUMBLE STRIP PLACEMENT WITHIN CENTERLINE AND NO PASSING ZONE TRAFFIC STRIPE

RUMBLE STRIP TO BE PLACED ALONG EXISTING CENTERLINE TRAFFIC STRIPE, EXCEPT 25′ PRIOR TO INTERSECTION, THERE SHALL BE NO RUMBLE STRIP. NEW TRAFFIC STRIPE TO BE INSTALLED ON TOP OF RUMBLE STRIP.



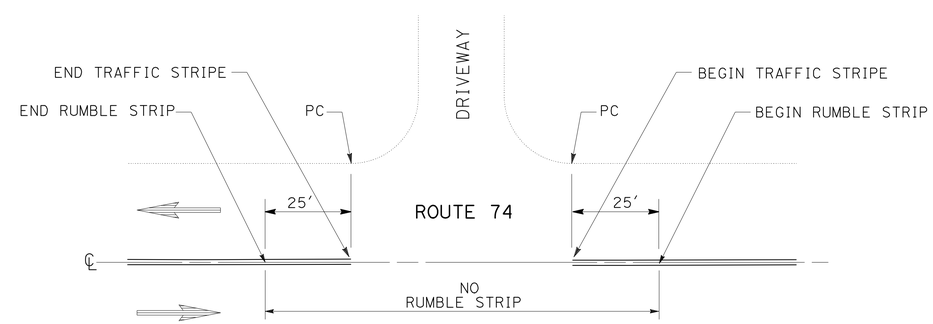
TYPICAL RUMBLE STRIP PLACEMENT WITHIN LEFT-TURN POCKET

RUMBLE STRIP SHALL END AT THE BEGINNING OF EXISTING BAY TAPER RESTRIPE EXISTING DETAIL 22



TYPICAL RUMBLE STRIP PLACEMENT WITHIN MEDIAN STRIPED ISLAND

RUMBLE STRIP SHALL NOT BE PLACED ALONG MEDIAN STRIPED ISLAND. DETAIL 29 TO BE RESTRIPE AT EXISTING LOCATION.



TYPICAL RUMBLE STRIP PLACEMENT WITHIN DRIVEWAY

RUMBLE STRIP TO BE PLACED ALONG EXISTING CENTERLINE TRAFFIC STRIPE, EXCEPT 25′ PRIOR TO DRIVEWAY, THERE SHALL BE NO RUMBLE STRIP.

CONSTRUCTION DETAILS

NO SCALE

EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 01-20-11
DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	5	10

REGISTERED CIVIL ENGINEER 4-14-11 DATE

4-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 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.

LEGEND

- CONSTRUCTION AREA
- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- (X) CONSTRUCTION AREA SIGN LETTER
- PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

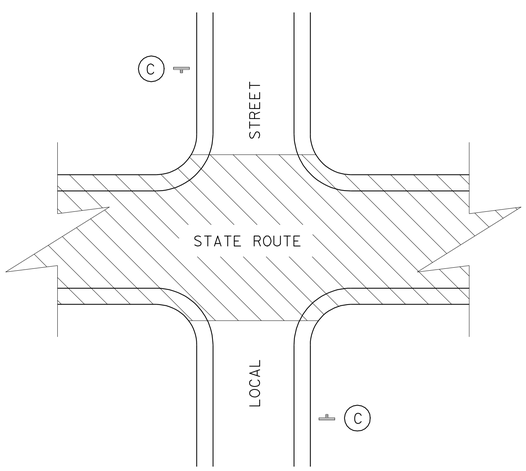
1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. REFER TO STANDARD PLAN T13 FOR TRAFFIC CONTROL REQUIREMENTS.
3. (N) FOR INFORMATION ONLY, NOT A SEPARATE CONTRACT PAY ITEM.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

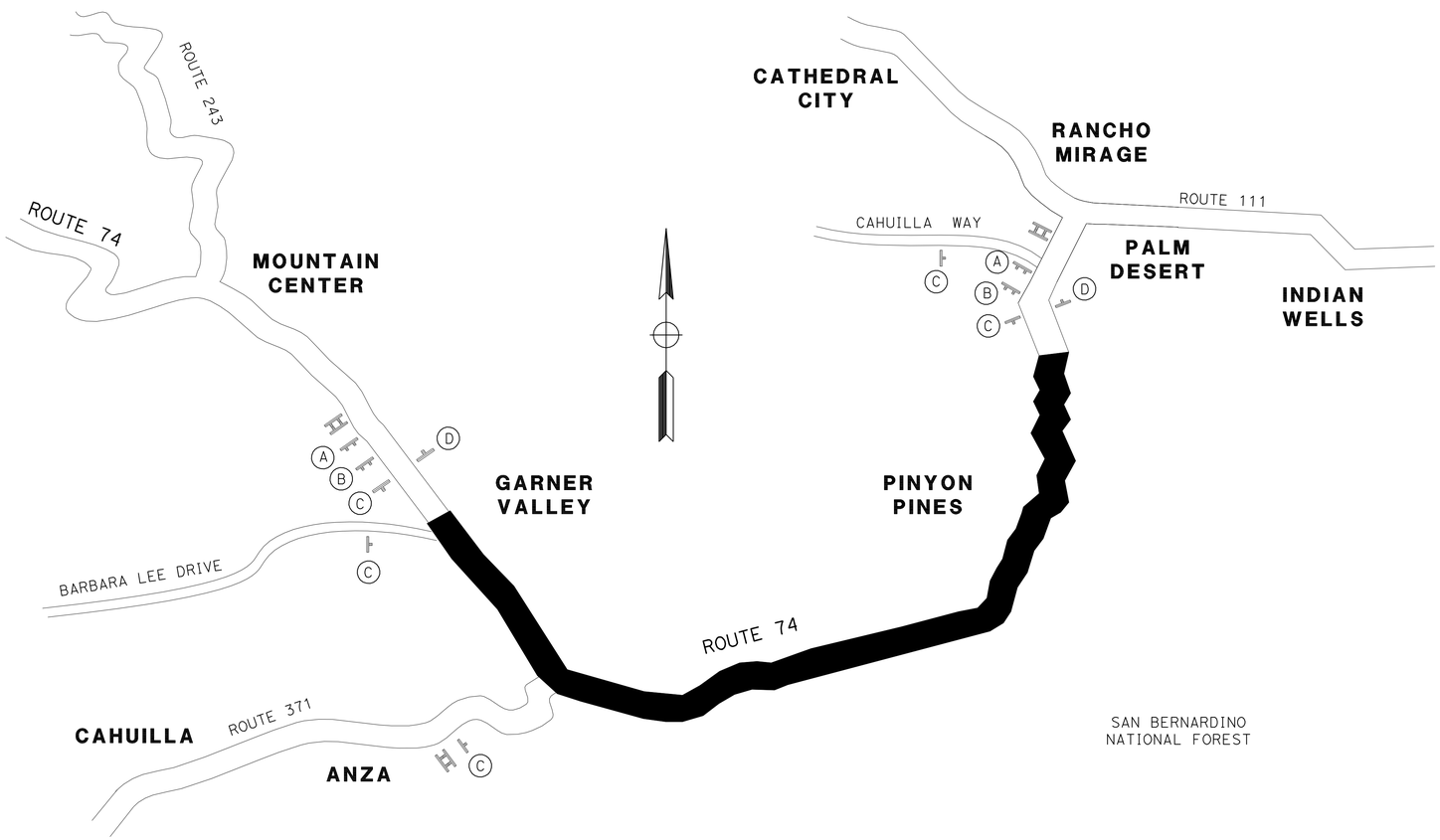
SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST(S) AND SIZE	No. OF SIGNS (N)
	FED	CA	(In X In)		(In X In)	(EA)
(A)		C40	108" X 36"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 4" X 6"	2
(B)		C11	60" X 36"	ROAD WORK NEXT 24 MILES	2 - 4" X 6"	2
(C) *	W20-1		48" X 48"	ROAD WORK AHEAD	1 - 6" X 6"	18
(D)		C14	48" X 24"	END ROAD WORK	1 - 4" X 6"	2
				TOTAL		24

* - INCLUDES CONSTRUCTION AREA SIGNS AT ALL PAVED LOCAL INTERSECTIONS

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
(EA)
3



TYPICAL LOCAL INTERSECTION



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 01-20-11
DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	6	10

REGISTERED CIVIL ENGINEER 4-14-11 DATE

4-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER RETROREFLECTIVE RECESSED		THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)
			4" YELLOW	TYPE D	TYPE H	4" YELLOW
		EA	FT	EA		
FROM PM 68.00 TO 68.40	22	-	4,224	180	-	2,112
FROM PM 68.40 TO 68.44(NO PASSING SB)	19	-	264	5	10	211
FROM PM 68.44 TO 68.66	6	-	290	25	-	1,162
FROM PM 68.66 TO 68.70(NO PASSING NB)	19	-	264	5	10	211
FROM PM 68.70 TO 68.75(NO PASSING SB)	19	-	330	6	12	264
FROM PM 68.75 TO 68.86	6	-	145	13	-	581
FROM PM 68.86 TO 68.91	22	-	528	24	-	264
FROM PM 68.91 TO 69.14	22	-	2,429	104	-	1,214
FROM PM 69.14 TO 69.31(NO PASSING NB)	19	-	1,122	19	38	898
FROM PM 69.31 TO 69.52(NO PASSING SB)	19	-	1,386	24	48	1,109
FROM PM 69.52 TO 69.64(NO PASSING NB)	19	-	792	14	28	634
FROM PM 69.64 TO 69.68	6	-	53	5	-	211
FROM PM 69.68 TO 69.79(NO PASSING SB)	19	-	726	13	26	581
FROM PM 69.79 TO 69.88	6	-	119	10	-	475
FROM PM 69.88 TO 69.94(NO PASSING NB)	19	-	396	7	14	317
FROM PM 69.94 TO 70.13	22	-	2,006	84	-	1,003
FROM PM 70.13 TO 70.18	29	-	528	24	-	264
FROM PM 70.18 TO 70.21	22	-	317	16	-	158
FROM PM 70.22 TO 70.25	29	-	317	16	-	158
FROM PM 70.25 TO 70.43	22	-	1,901	80	-	950
FROM PM 70.43 TO 70.58(NO PASSING NB)	19	-	990	17	34	792
FROM PM 70.58 TO 70.66	22	-	845	36	-	422
FROM PM 70.66 TO 70.75(NO PASSING SB)	19	-	594	10	20	475
FROM PM 70.75 TO 70.92	6	-	224	19	-	898
FROM PM 70.92 TO 71.08(NO PASSING NB)	19	-	1,056	18	36	845
FROM PM 71.08 TO 71.29	22	-	2,218	96	-	1,109
FROM PM 71.29 TO 71.45	22	-	1,690	72	-	845
FROM PM 71.45 TO 71.92	22	-	4,963	208	-	2,482
FROM PM 71.92 TO 72.08(NO PASSING SB)	19	-	1,056	18	36	845
FROM PM 72.08 TO 72.47	6	-	515	43	-	2,059
FROM PM 72.47 TO 72.57(NO PASSING NB)	19	-	660	11	22	528
FROM PM 72.57 TO 72.58	22	-	106	8	-	53
FROM PM 72.58 TO 72.97(NO PASSING SB)	19	-	2,574	43	86	2,059
FROM PM 72.97 TO 73.08(NO PASSING NB)	19	-	726	13	26	580
FROM PM 73.08 TO 89.00	22	-	168,115	7,008	-	84,058
FROM PM 89.00 TO 92.00	22	1,320	31,680	1,320	-	15,840
SUBTOTAL		-	-	9,614	446	126,667
TOTAL		1,320	236,149	10,060		126,667

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION 01-25-11
DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	68.0/92.0	7	10

REGISTERED CIVIL ENGINEER 4-14-11 DATE

4-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
AWAIS SHEIKH
No. 65531
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

ROUTE	PM	CENTERLINE RUBMBLE STRIP (GROUND-IN INDENTATION) (STA)
74	68.0/92.0	1270
TOTAL		1270

SUMMARY OF QUANTITIES

Q-1

LAST REVISION 01-20-11
DATE PLOTTED => 14-APR-2011
TIME PLOTTED => 13:18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® OPERATIONS SAFETY DESIGN

FUNCTIONAL SUPERVISOR: BEHZAD SEDIGHI
CALCULATED-DESIGNED BY: MYLINH NGUYEN
CHECKED BY: AWAIS SHEIKH
REVISED BY
DATE REVISED

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	74	68.0/92.0	8	10

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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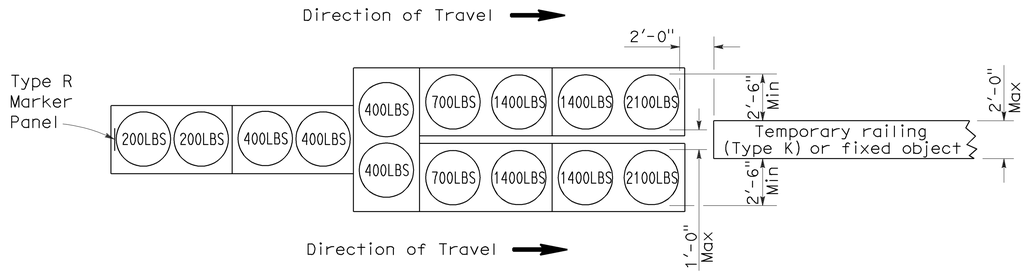
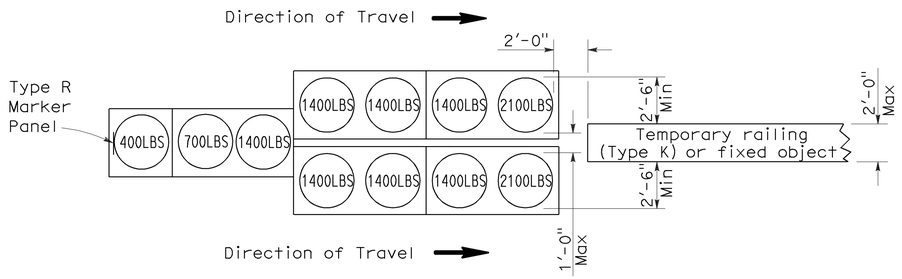
To accompany plans dated 4-18-11



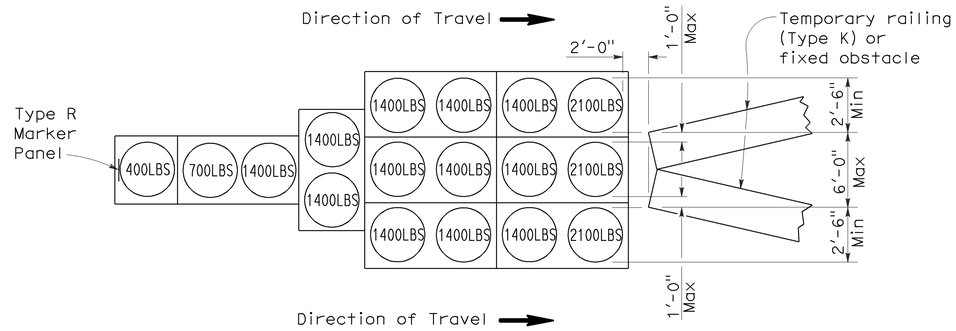
ARRAY 'TU14'

Approach speed 45 mph or more



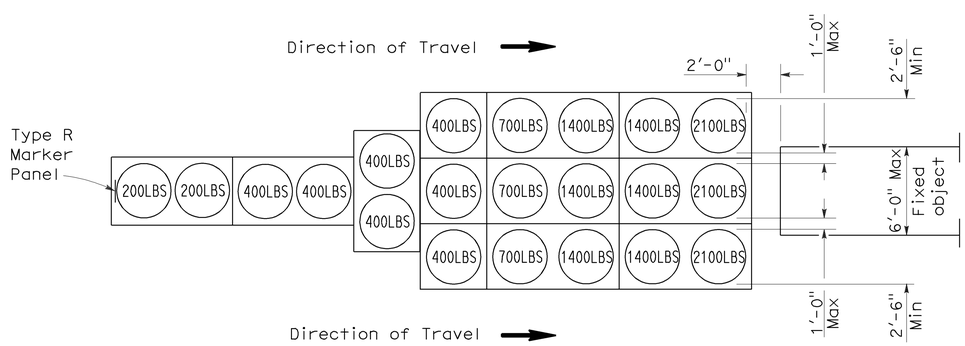
ARRAY 'TU11'

Approach speed less than 45 mph



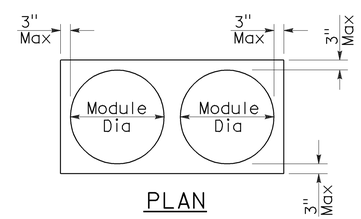
ARRAY 'TU17'

Approach speed less than 45 mph

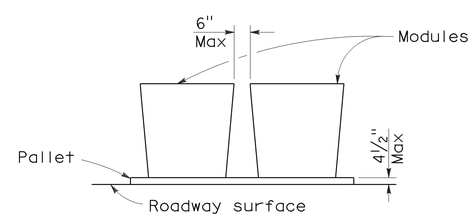


ARRAY 'TU21'

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
08	Riv	74	68.0/92.0	9	10

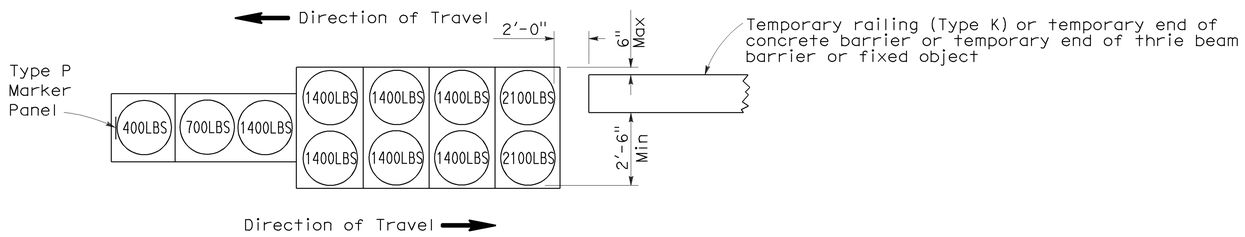
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

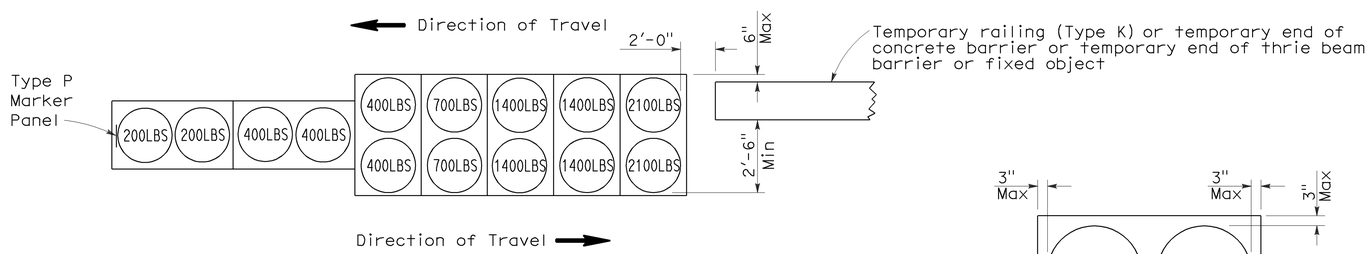
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 4-18-11



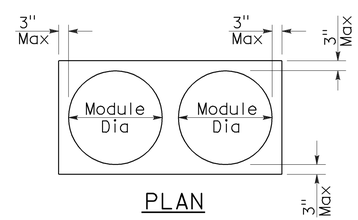
ARRAY 'TB11'

Approach speed less than 45 mph

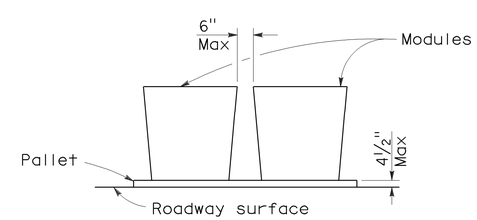


ARRAY 'TB14'

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
08	Riv	74	68.0/92.0	10	10

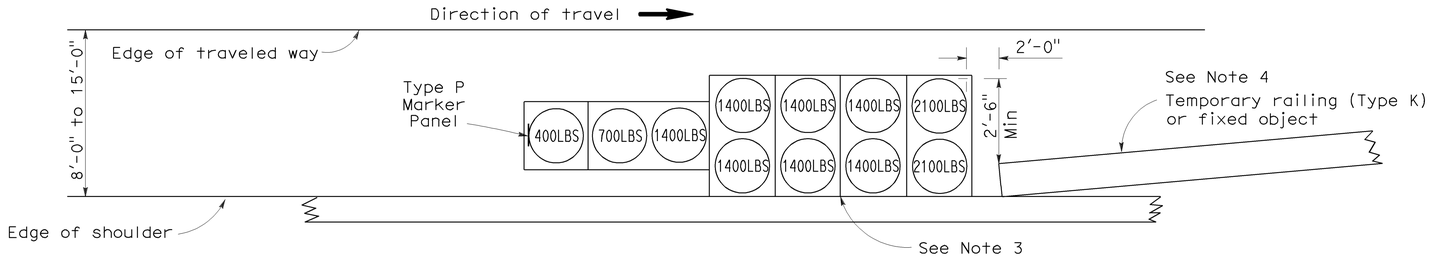
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

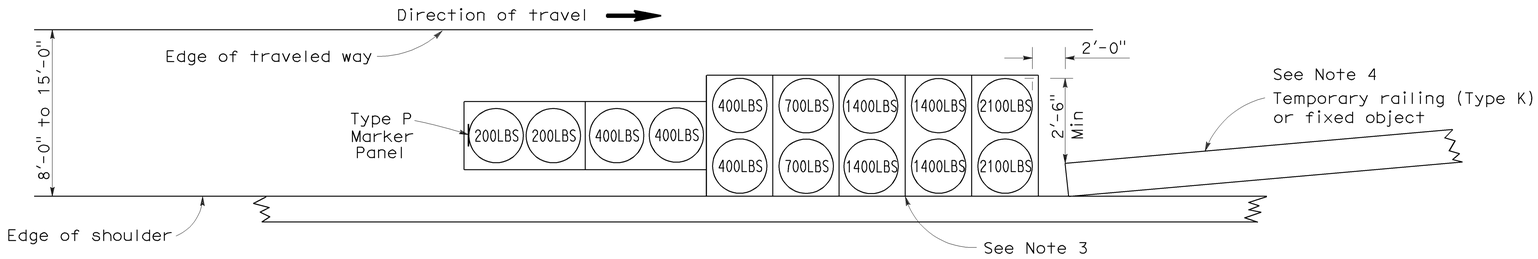
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 4-18-11



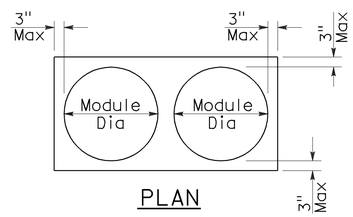
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

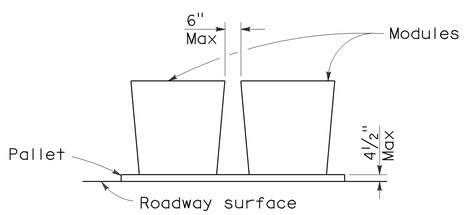


ARRAY 'TS14'

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