Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	1	15

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR BUILDING CONSTRUCTION

STATE HIGHWAY

IN SAN BERNARDINO AND RIVERSIDE COUNTIES IN CHINO AND ONTARIO FROM 0.8 MILE WEST OF RAMONA AVENUE TO 0.2 MILE EAST OF MILLIKEN AVENUE

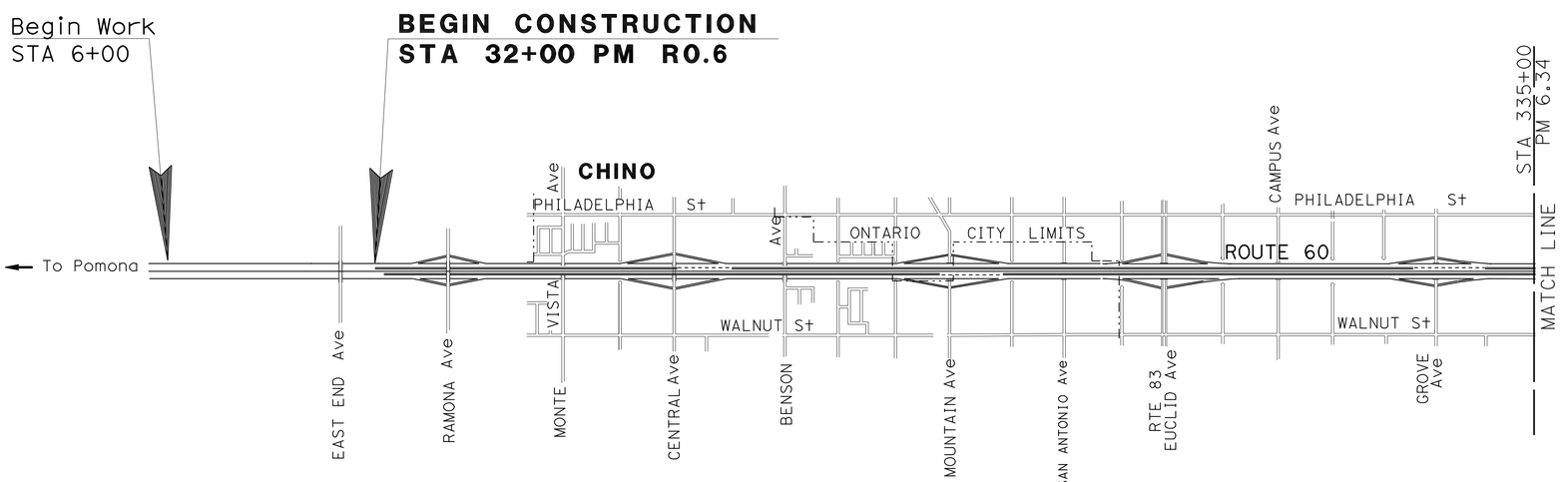
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

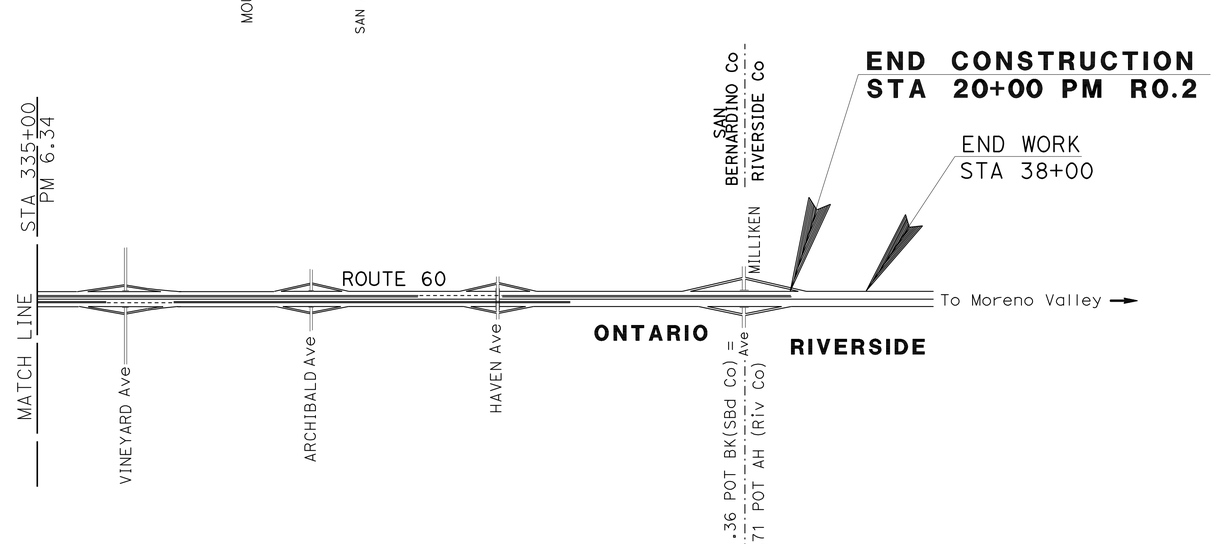
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION AREA SIGNS
4	PAVEMENT DELINEATION
5	PAVEMENT DELINEATION QUANTITIES
6	SIGN QUANTITIES
7	ELECTRICAL
8-15	REVISED AND NEW STANDARD PLANS

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

LOCATION MAP





NO SCALE

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

Thanh Trinh 10-15-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

October 29, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
THANH TRINH
No. 41189
Exp. 3-31-13
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.

CONTRACT No.	08-0G4304
PROJECT ID	0800000207

PROJECT MANAGER: MUSTAPHA IAALI
DESIGN ENGINEER: W.E.WASSER

LAST REVISION 10-05-12
DATE PLOTTED => 26-OCT-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	2	15

Thanh Trinh 10-15-12
REGISTERED CIVIL ENGINEER DATE

10-29-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER THANH TRINH No. 41189 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

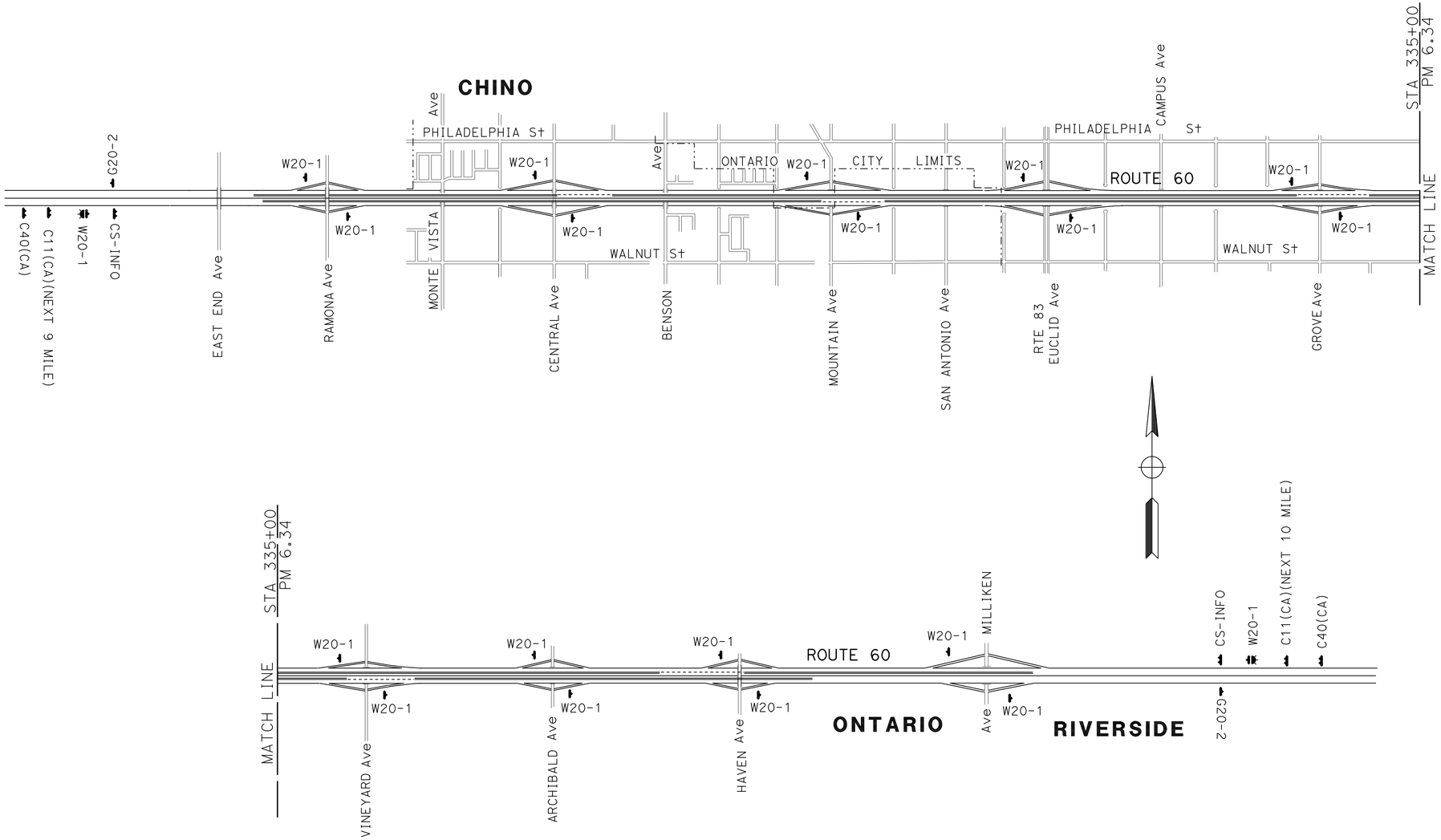
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES :

1. THE EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. ALL SIGNS SHALL BE STATIONARY.

LEGEND:

- PORTABLE FLASHING BEACON
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: BILL WASSER
CALCULATED-DESIGNED BY: JAMES LIANG
CHECKED BY: THANH TRINH
REVISED BY
DATE REVISED

LAST REVISION 10-05-12
DATE PLOTTED => 26-OCT-2012
TIME PLOTTED => 10:48

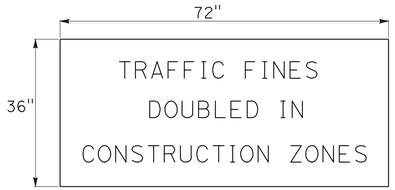
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	3	15

Thanh Trinh 10-15-12
REGISTERED CIVIL ENGINEER DATE

10-29-12
PLANS APPROVAL DATE

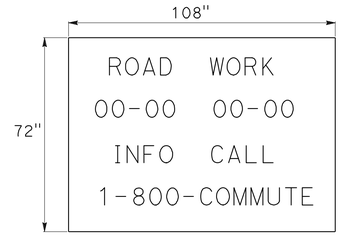
REGISTERED PROFESSIONAL ENGINEER
THANH TRINH
No. 41189
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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.



C40(CA)

LETTER SIZE : 6" D



CS-INFO

LETTER SIZE : 8" D

FLASHING BEACONS (PORTABLE)

QUANTITY EA
2

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

QUANTITY EA
4

CONSTRUCTION AREA SIGNS

SHEET #	SIGN CODE	PANEL SIZE	No. OF POST AND SIZE	EACH	SIGN MESSAGE
CS-1	G20-2	36" x 18"	1- 4" x 4"	2	END ROAD WORK
	W20-1	48" x 48"	1- 6" x 6"	20	ROAD WORK AHEAD
	C11(CA)	90" x 48"	2- 6" x 6"	1	NEXT 9 MILE(EB)
	C11(CA)	90" x 48"	2- 6" x 6"	1	NEXT 10 MILE(WB)
	C40(CA)	72" x 36"	2- 4" x 6"	2	
	CS-INFO	108" x 72"	2- 6" x 6"	2	

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: BILL WASSER
CALCULATED-DESIGNED BY: JAMES LIANG
CHECKED BY: THANH TRINH
REVISED BY
DATE REVISED

LAST REVISION 10-05-12
DATE PLOTTED => 26-OCT-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	4	12

Thanh Trinh 10-15-12
REGISTERED CIVIL ENGINEER DATE

10-29-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER THANH TRINH No. 41189 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

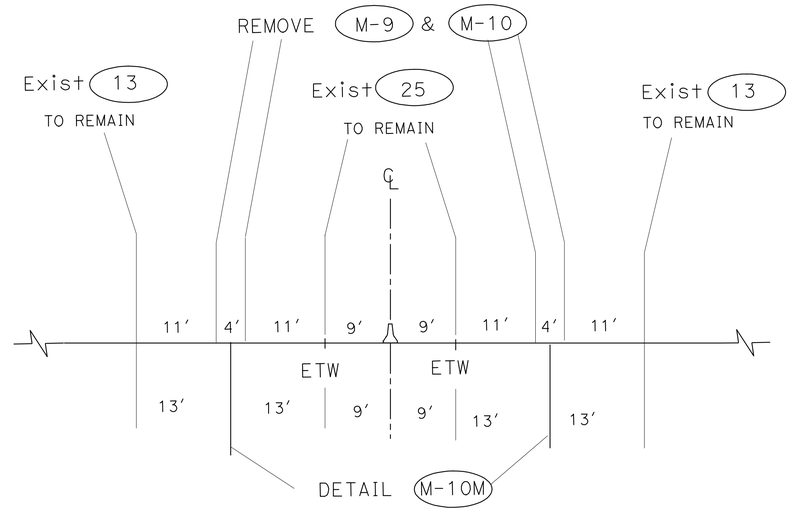
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

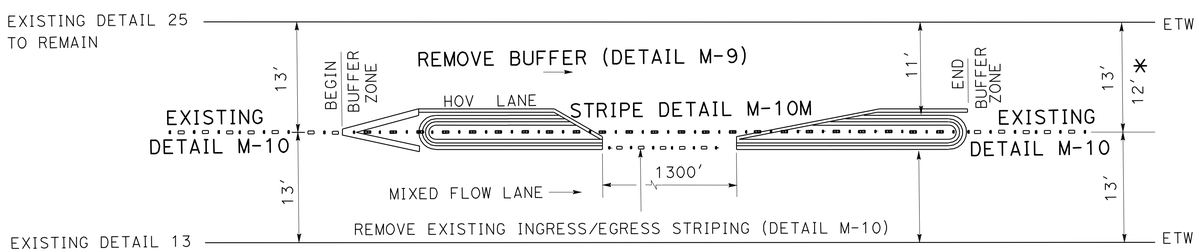
(X X) PAVEMENT DELINEATION DETAIL No.

DIRECTION OF TRAVEL

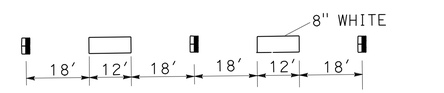
HOV LANE — DETAIL M-8M



TYPICAL CROSS SECTION

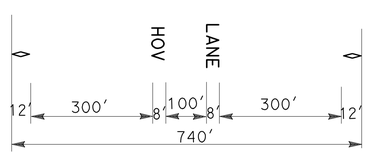


REMOVE EXISTING BUFFER (DETAIL M-9) AND STRIPE A CONTINUOUS HOV ACCESS(DETAIL M-10M)
REMOVE EXISTING INGRESS/EGRESS STRIPING (DETAIL M-10) AND STRIPE A CONTINUOUS HOV ACCESS (DETAIL M-10M)
* (478+00 TO 20 + 00)
STATION EQUATION 526+11.36 = 9+88.71
(SAN BERNADINO / RIVERSIDE COUNTY LINE)



2-TYPE G ONE-WAY CLEAR RETROREFLECTIVE

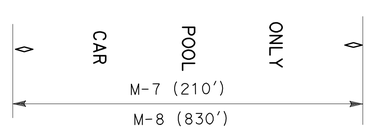
DETAIL M-10
NO SCALE



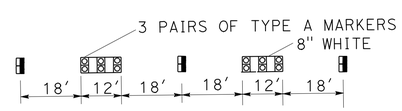
"HOV LANE" PAVEMENT MARKINGS

REPEAT DETAIL M-8M @ 0.5 MILE INTERVALS

DETAIL M-8M
NO SCALE

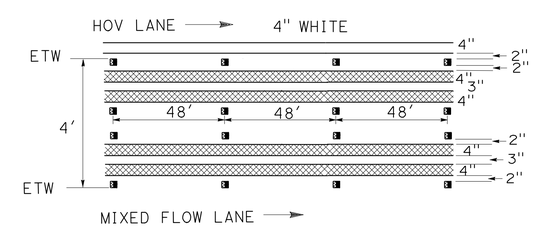


DETAIL M-7 & M-8
NO SCALE



2-TYPE G ONE-WAY CLEAR RETROREFLECTIVE

DETAIL M-10M CONTINUOUS HOV ACCESS
NO SCALE



DETAIL M-9
NO SCALE

BUFFER TRANSITION FROM 4′ TO 3′ (STA.471+00 TO STA.478+00)
BUFFER TRANSITION FROM 3′ TO 4′ (STA.498+00 TO STA.505+00)

PAVEMENT DELINEATION

NO SCALE **PD-1**

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN A

FUNCTIONAL SUPERVISOR: W.E.WASSER
CALCULATED-DESIGNED BY: JAMES LIANG
CHECKED BY: THANH TRINH
REVISED BY / DATE REVISED

LAST REVISION 10-05-12
DATE PLOTTED => 26-OCT-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	5	15

Thanh Trinh 10-15-12
REGISTERED CIVIL ENGINEER DATE

10-29-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER THANH TRINH No. 41189 Exp. 3-31-13 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.	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" YELLOW	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) 8" WHITE (BROKEN)	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE) TYPE G	PAVEMENT MARKER (NON-REFLECTIVE) TYPE A	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING	REMARKS
		LF	LF	LF	EA	EA	EA	SQFT	SQFT	
HOV LANE EB										
33+00 to 190+00	DETAIL M-9	15700	62800		1308					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			15700		654	1962			
190+00 to 203+00	DETAIL M-10	648			54					REMOVE INGRESS/EGRESS STRIPING AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			1300		54	162			
203+00 to 357+00	DETAIL M-9	15400	61600		1284					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			15400		642	1926			
357+00 to 370+00	DETAIL M-10	648			54					REMOVE INGRESS/EGRESS STRIPING AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			1300		54	162			
370+00 to 480+00	DETAIL M-9	11000	44000		916					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			11000		458	1374			
	DETAIL M-7 & M-8 (18EA)							1512		REMOVE "CAR POOL ONLY" MARKINGS
	DETAIL M-8M (14 EA)								1176	
HOV LANE WB										
32+00 to 125+60	DETAIL M-9	9360	37440		780					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			9360		390	1170			
125+60 to 138+60	DETAIL M-10	648			54					REMOVE INGRESS/EGRESS STRIPING AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			1300		54	162			
138+60 to 300+00	DETAIL M-9	16140	64560		1344					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			16140		672	2016			
300+00 to 313+00	DETAIL M-10	648			54					REMOVE INGRESS/EGRESS STRIPING AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			1300		54	162			
313+00 to 458+00	DETAIL M-9	14500	58000		1208					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			14500		604	1812			
458+00 to 471+00	DETAIL M-10	648			54					REMOVE INGRESS/EGRESS STRIPING AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			1300		54	162			
471+00 to 20+00 *	DETAIL M-9	6523	26092		544					REMOVE BUFFER AND STRIPE A CONTINUOUS HOV ACCESS
	DETAIL M-10M			6523		272	816			
	DETAIL M-7 & M-8 (18 EA)							1512		REMOVE "CAR POOL ONLY" MARKINGS
	DETAIL M-8M (15 EA)								1260	
TOTAL		91863	354492	95123	7654	3962	11886	3024	2436	

* STATION EQUATION 526+11.36 = 9+88.71 (SAN BERNARDINO/RIVERSIDE LINE)

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: BILL WASSER
CALCULATED-DESIGNED BY: JAMES LIANG
CHECKED BY: THANH TRINH
REVISED BY
DATE REVISED

LAST REVISION 10-05-12
DATE PLOTTED => 26-OCT-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	6	15

Thanh Trinh 10-15-12
REGISTERED CIVIL ENGINEER DATE

10-29-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER THANH TRINH No. 41189 Exp. 3-31-13 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.

REMOVE EXISTING ROADSIDE SIGNS

LOCATION		Approx STATION	EACH
No.	SIGN CODE		
1	G86-8	43+20	1
2	G85-7	56+10	1
3	G85-7	87+90	1
4	G86-8	96+95	1
5	G85-7	109+95	1
6	G85-7	140+60	1
7	G86-8	153+90	1
8	G86-8	161+60	1
9	G85-7	174+50	1
10	G85-7	206+95	1
11	G86-8	213+30	1
12	G86-8	219+50	1
13	G85-7	226+10	1
14	G85-7	260+20	1
15	G86-8	273+20	1
16	G86-8	280+80	1
17	G85-7	293+80	1
18	G85-7	327+50	1
19	G86-8	333+60	1
20	G86-8	340+60	1
21	G85-7	346+40	1
22	G85-7	378+50	1
23	G86-8	387+80	1
24	G85-7	400+40	1
25	G85-7	433+30	1
26	G86-8	443+30	1
27	G86-8	446+20	1
28	G85-7	455+80	1
29	G85-7	483+40	1
30	G86-8	496+30	1
TOTAL			30

SIGN QUANTITIES

SQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: BILL WASSER
CALCULATED-DESIGNED BY: JAMES LIANG
CHECKED BY: THANH TRINH
REVISED BY
DATE REVISED

LAST REVISION 10-05-12
DATE PLOTTED => 26-OCT-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	7	15

REGISTERED CIVIL ENGINEER 10-15-12 DATE

PLANS APPROVAL DATE 10-29-12

REGISTERED PROFESSIONAL ENGINEER KATHERINE DIN No. E 17157 Exp. 9/30/13 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.

TRAFFIC MANAGEMENT SYSTEM ELEMENT (EXISTING)

LOCATION		Approx. STATION	TYPE
Loc	MAIN STREET		
1	RAMONA AVENUE	62.50	RAMP METERING SYSTEM
2	RAMONA AVENUE	78.50	RAMP METERING SYSTEM WITH VDS
3	MONTE VISTA AVENUE	103.00	VDS
4	CENTRAL AVENUE	115.50	RAMP METERING SYSTEM WITH VDS
5	CENTRAL AVENUE	134.50	RAMP METERING SYSTEM
6	BENSON AVENUE	147.50	VDS
7	MOUNTAIN AVENUE	170.00	VEHICLE DETECTION STATION WITH CCTV
8	MOUNTAIN AVENUE	181.50	RAMP METERING SYSTEM WITH VDS
9	MOUNTAIN AVENUE	199.00	RAMP METERING SYSTEM
10	SAN ANTONIO AVE	218.50	VEHICLE DETECTION STATION WITH CCTV
11	EUCLID AVENUE	232.50	RAMP METERING SYSTEM
12	EUCLID AVENUE	252.50	RAMP METERING SYSTEM WITH VDS
13	BON VIEW	286.00	VEHICLE DETECTION STATION WITH CCTV
14	GROVE AVENUE	302.00	RAMP METERING SYSTEM
15	GROVE AVENUE	319.50	RAMP METERING SYSTEM WITH VDS
16	WALKER AVENUE	335.00	VDS
17	VINEYARD AVENUE	354.00	RAMP METERING SYSTEM WITH VDS
18	VINEYARD AVENUE	372.50	RAMP METERING SYSTEM WITH VDS
19	VINEYARD AVENUE	390.00	VEHICLE DETECTION STATION WITH CCTV
20	ARCHIBALD AVENUE	407.50	RAMP METERING SYSTEM WITH VDS
21	ARCHIBALD AVENUE	426.00	RAMP METERING SYSTEM
22	DEER CREEK	440.00	VDS
23	HAVEN AVENUE	454.00	VEHICLE DETECTION STATION WITH CCTV
24	HAVEN AVENUE	460.50	RAMP METERING SYSTEM
25	HAVEN AVENUE	471.00	VDS
26	HAVEN AVENUE	478.00	RAMP METERING SYSTEM WITH VDS
27	HAVEN AVENUE	485.00	VEHICLE DETECTION STATION WITH CCTV
28	MILIKEN AVENUE	515.00	RAMP METERING SYSTEM WITH VDS

ABBREVIATIONS:

VDS VEHICLE DETECTION STATION

MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM DURING CONSTRUCTION

NO SCALE

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: FERDINAND DELACRUZ

CALCULATED-DESIGNED BY: WALEED ABDUL-HOSN

CHECKED BY: KATHERINE DIN

REVISED BY

DATE REVISED

LAST REVISION 10-05-12

DATE PLOTTED => 26-OCT-2012

TIME PLOTTED => 10:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	8	15

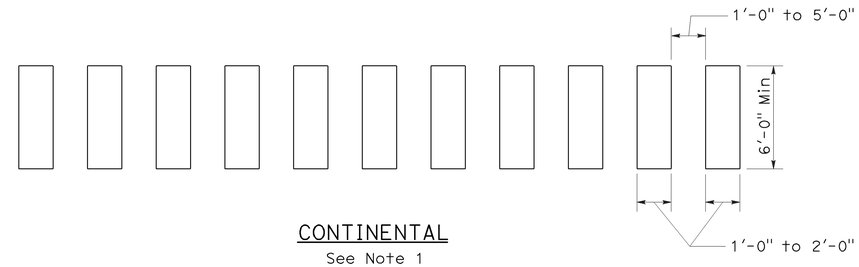
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

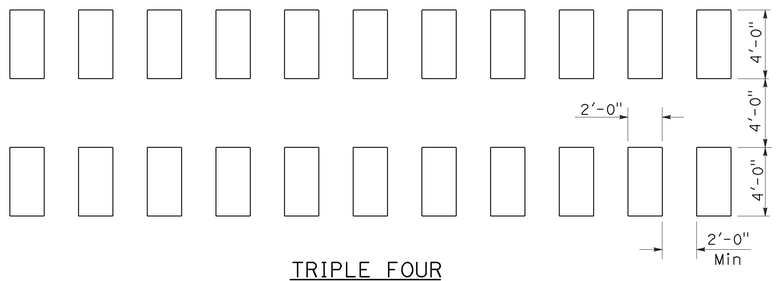
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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.

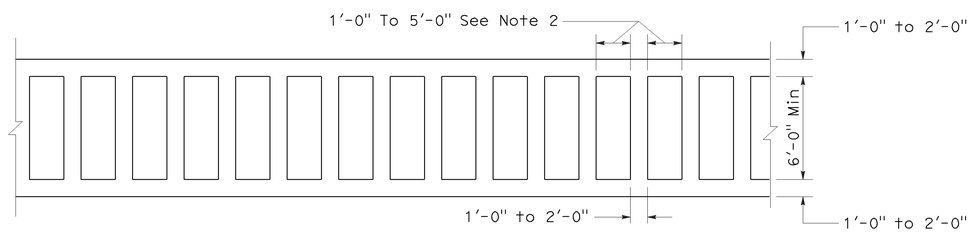
To accompany plans dated 10-29-11



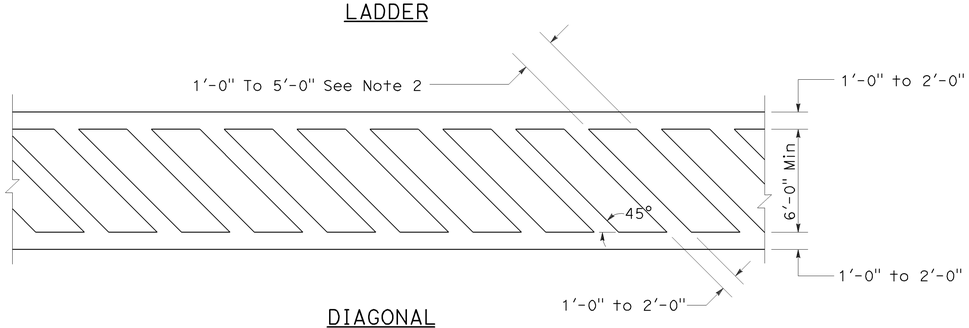
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

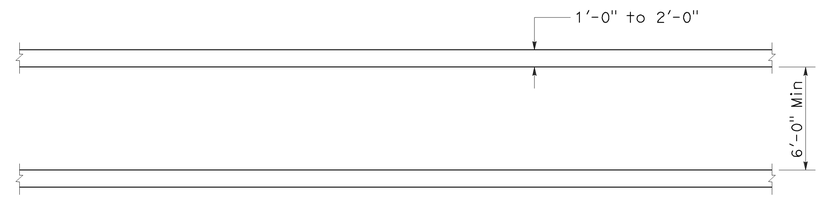


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
CROSSWALKS

NO SCALE

NSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP A24F

2006 NEW STANDARD PLAN NSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	9	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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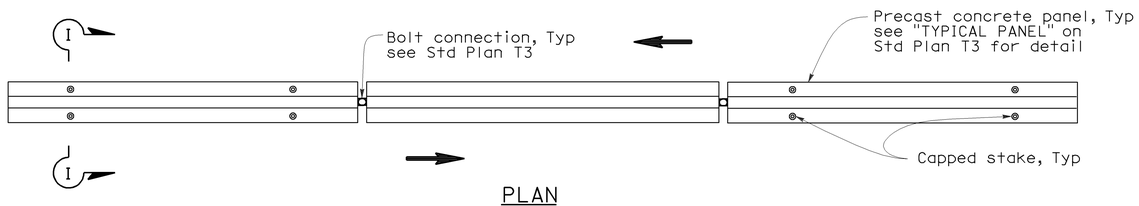
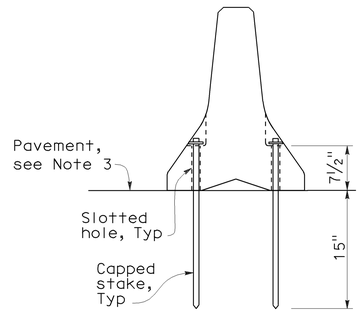
To accompany plans dated 10-29-11



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

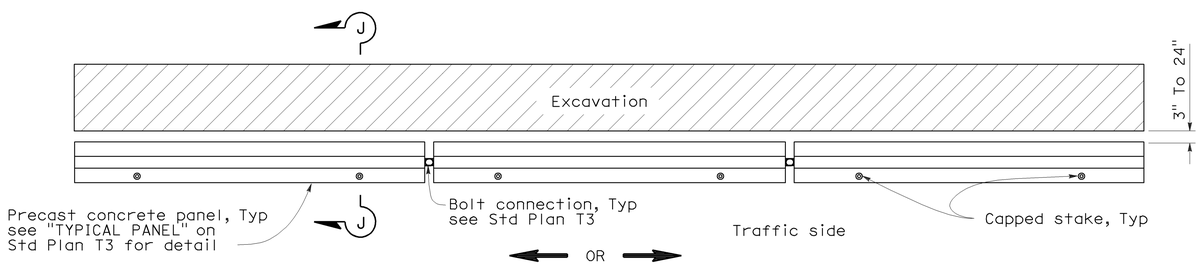
See Note 1



SECTION I-I

NOTES:

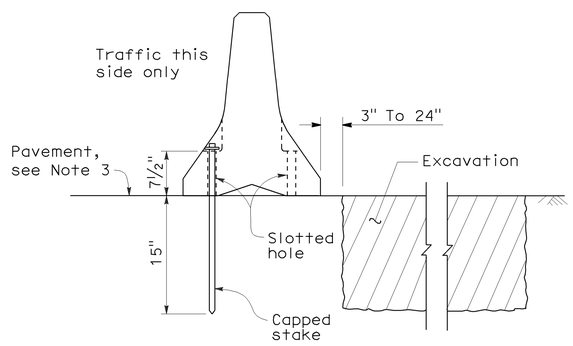
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of 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 ⟹.



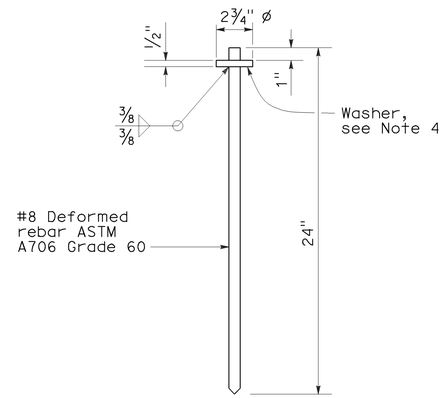
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

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.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

8-31-10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	10	15

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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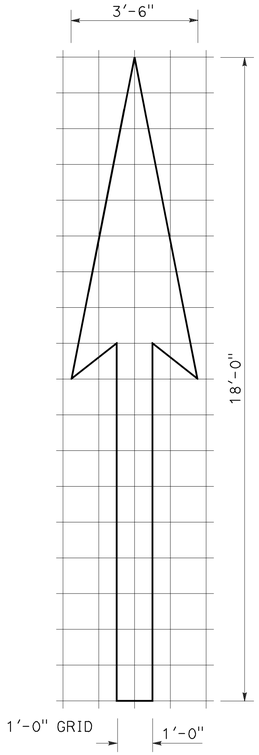
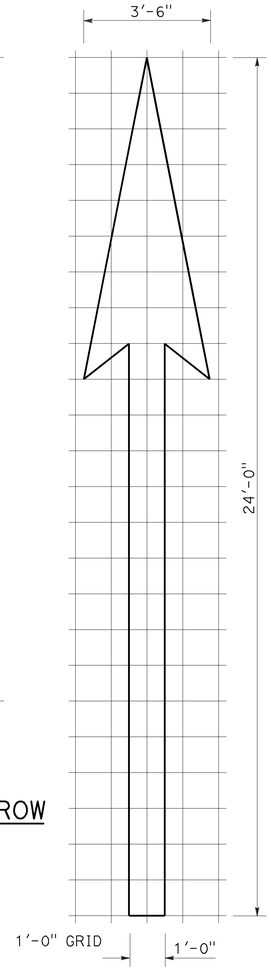
To accompany plans dated 10-29-11

2006 REVISED STANDARD PLAN RSP A24A



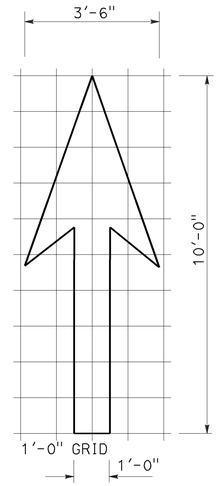
A=25 sq ft

TYPE I 18'-0" ARROW



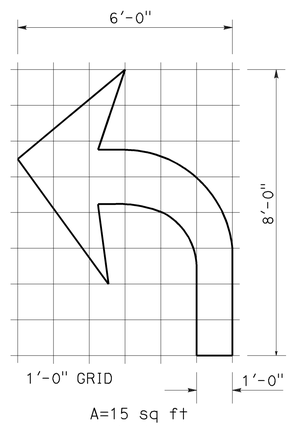
A=31 sq ft

TYPE I 24'-0" ARROW



A=14 sq ft

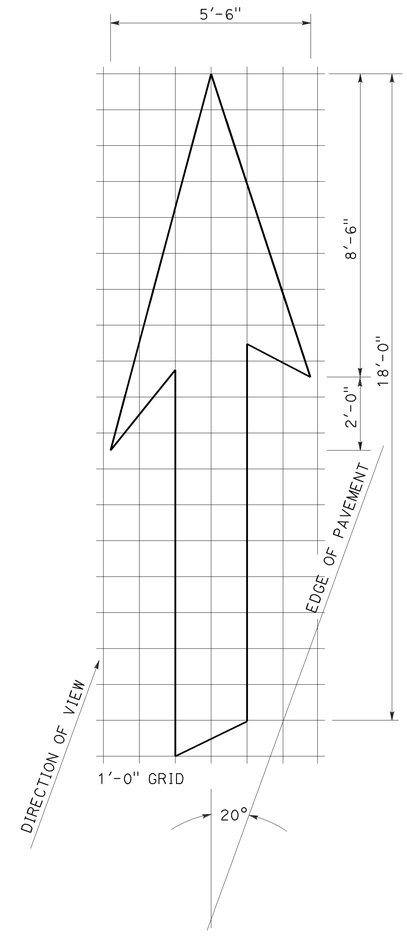
TYPE I 10'-0" ARROW



A=15 sq ft

TYPE IV (L) ARROW

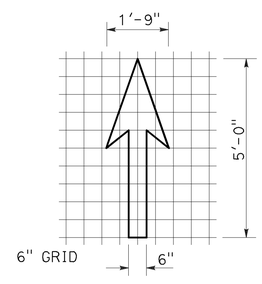
(FOR TYPE IV (R) ARROW, USE MIRROR IMAGE)



A=42 sq ft

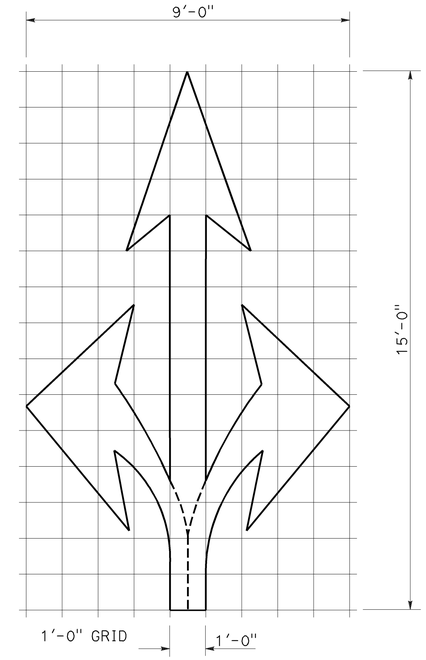
TYPE VI ARROW

RIGHT LANE DROP ARROW (FOR LEFT LANE, USE MIRROR IMAGE)



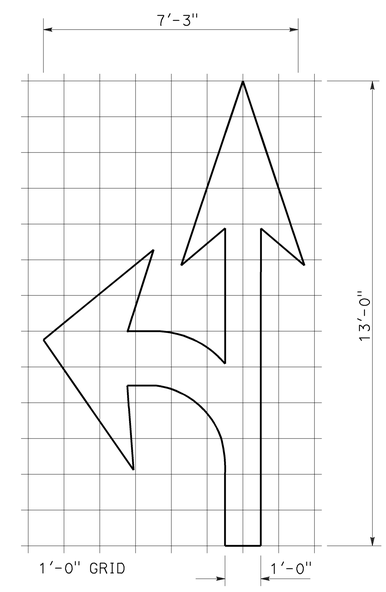
A=3.5 sq ft

BIKE LANE ARROW



A=36 sq ft

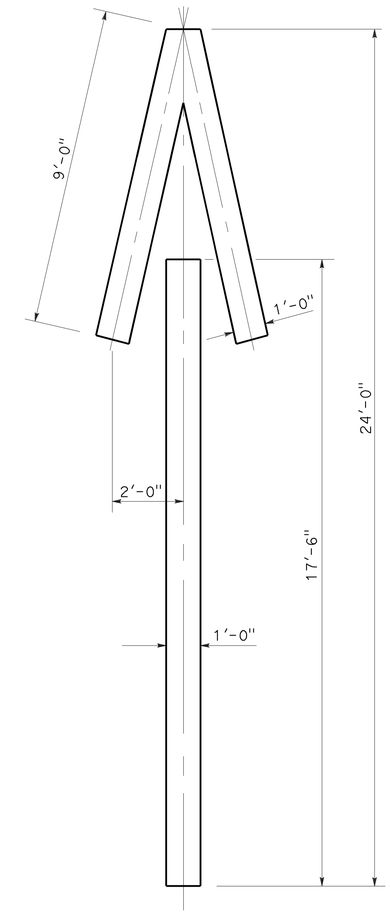
TYPE VIII ARROW



A=27 sq ft

TYPE VII (L) ARROW

(FOR TYPE VII (R) ARROW, USE MIRROR IMAGE)



A=33 sq ft

TYPE V ARROW

NOTE:
MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE ENGINEER.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24A

3-14-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	11	15

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald E. Howe No. C46402 Exp. 3-31-09 CIVIL STATE OF CALIFORNIA

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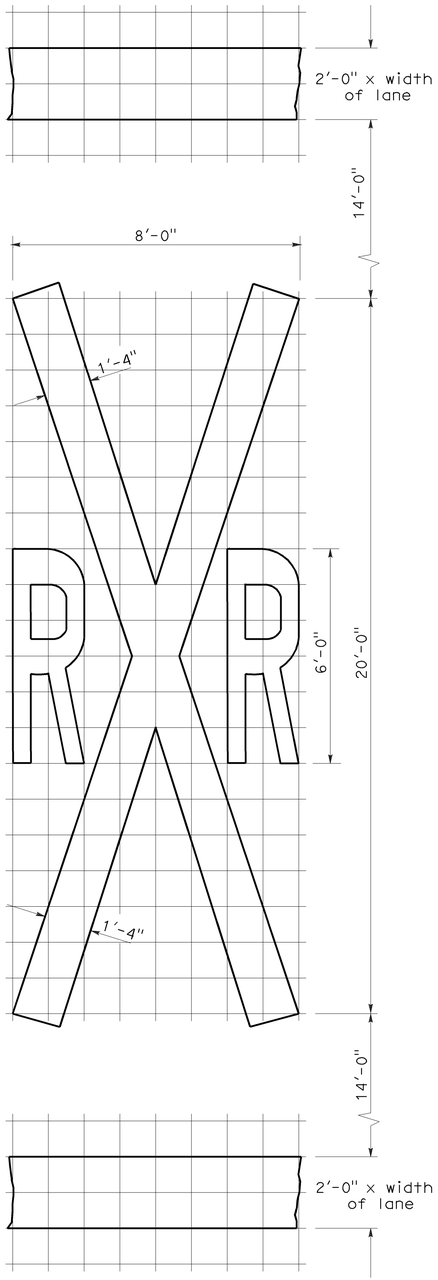
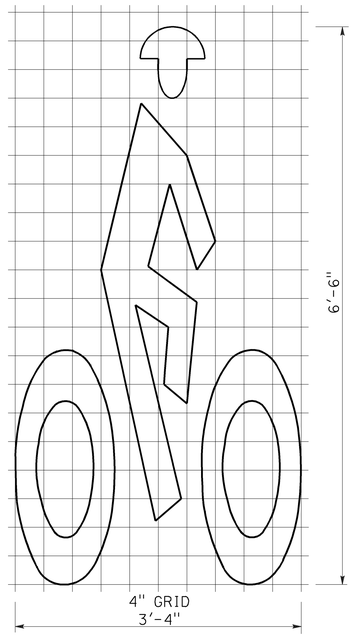
To accompany plans dated 10-29-11



1'-0" GRID
A=70 sq ft ✳

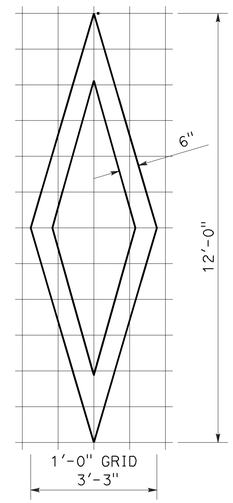
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



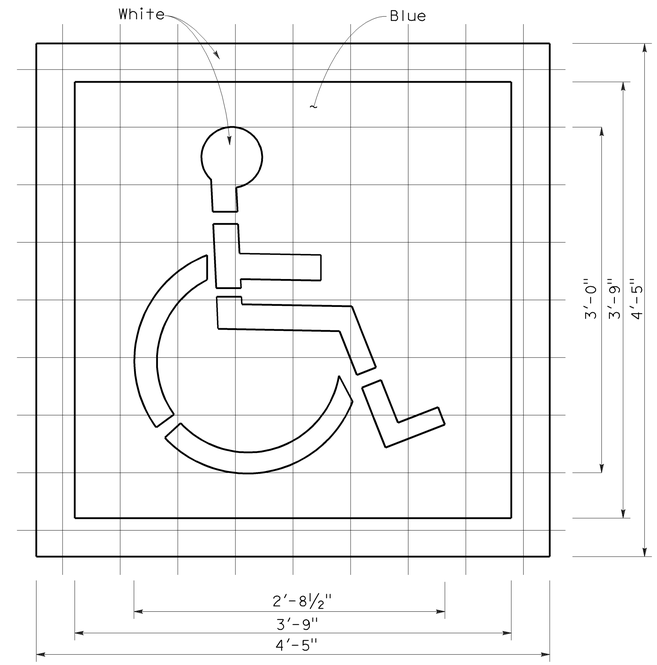
A=7 sq ft

BIKE LANE SYMBOL



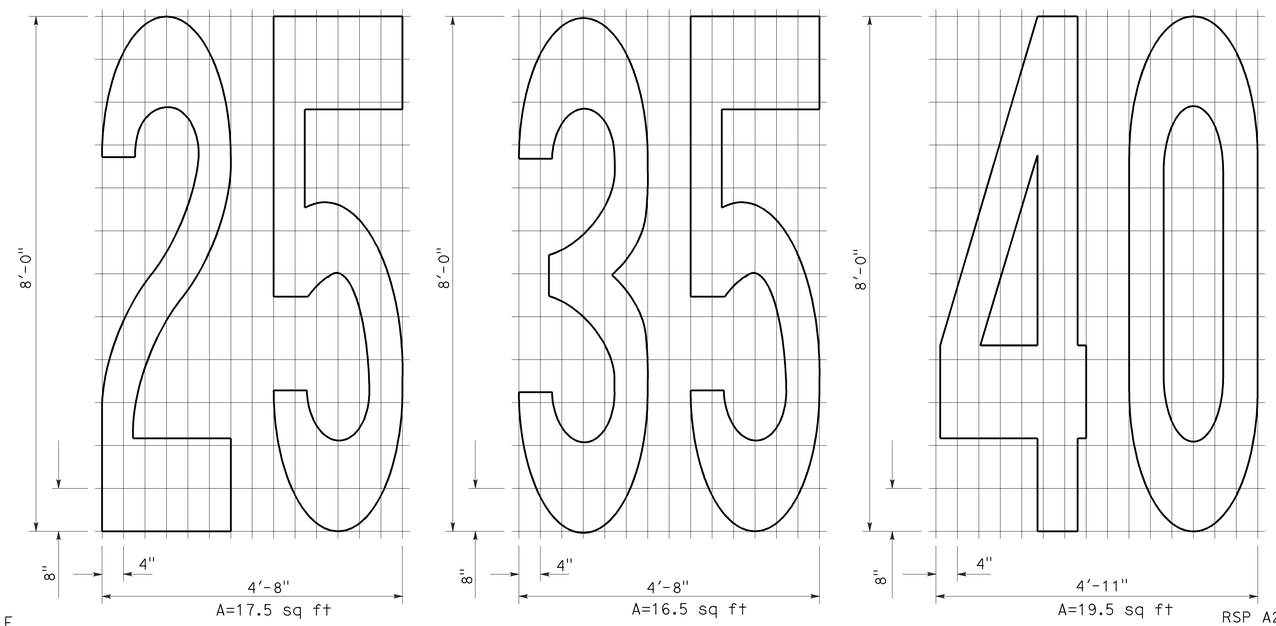
A=11 sq ft

DIAMOND SYMBOL



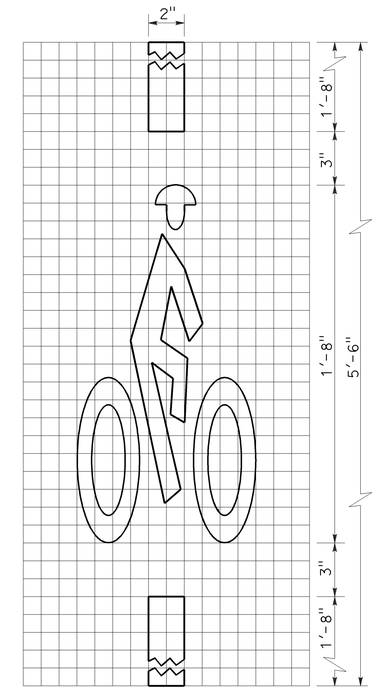
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



A=17.5 sq ft
A=16.5 sq ft
A=19.5 sq ft

NUMERALS



A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	12	15

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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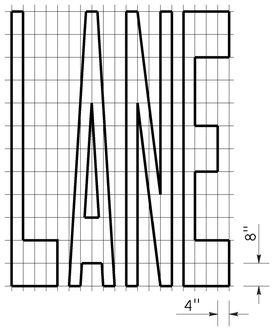
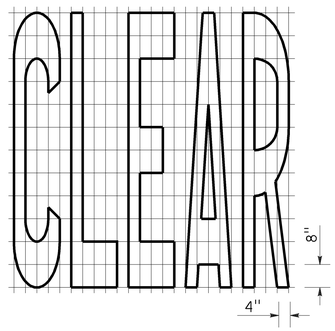
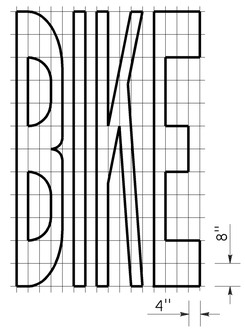
To accompany plans dated 10-29-11



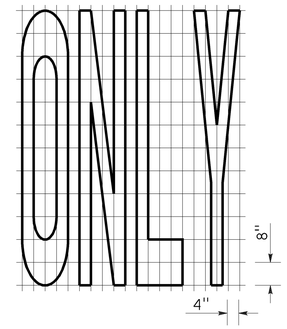
A=24 ft^2



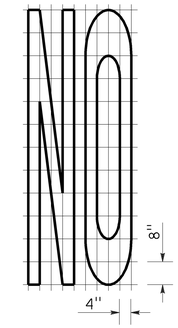
A=27 ft^2



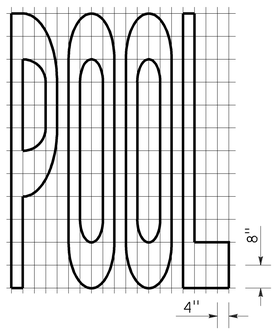
A=21 ft^2



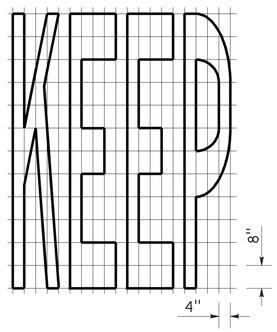
A=22 ft^2



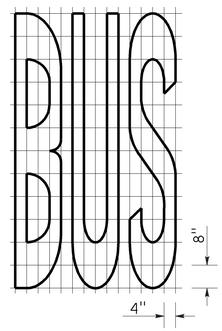
A=14 ft^2



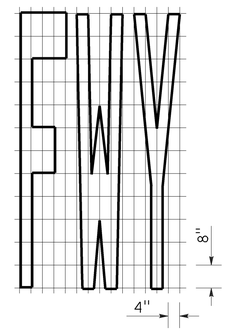
A=23 ft^2



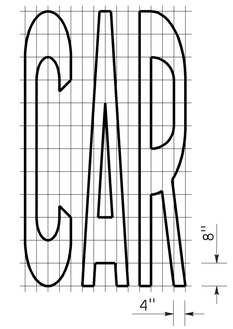
A=24 ft^2



A=20 ft^2

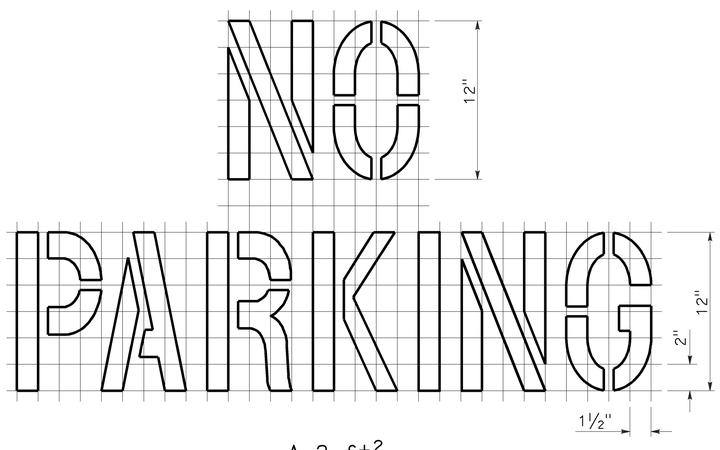


A=16 ft^2

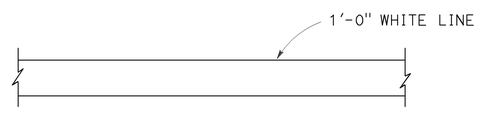


A=17 ft^2

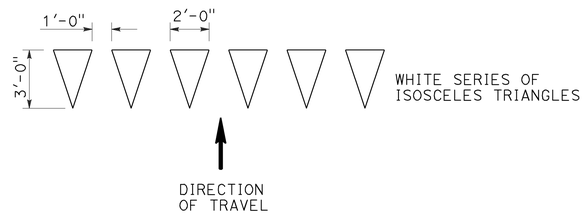
WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft^2
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 1, 2006 - PAGE 13 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24E

2006 REVISED STANDARD PLAN RSP A24E

6-12-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	13	15

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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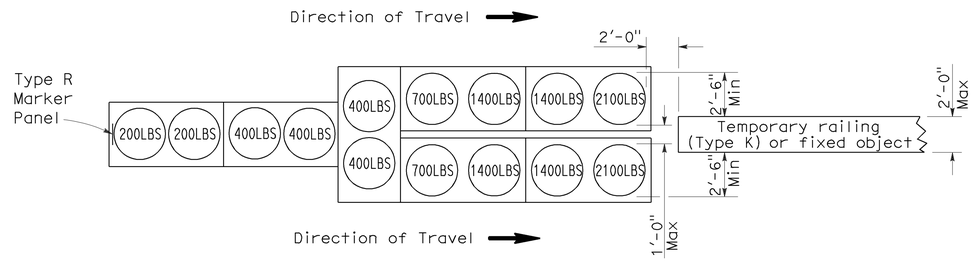
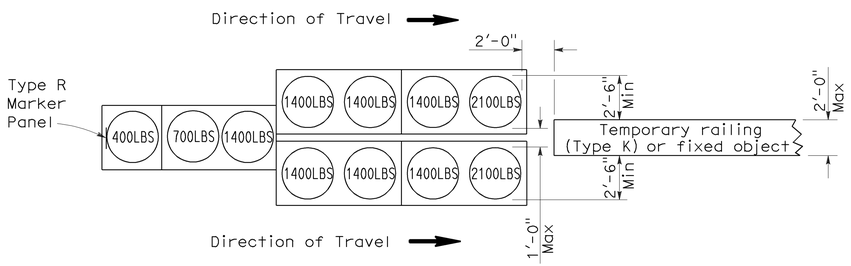
To accompany plans dated 10-29-11



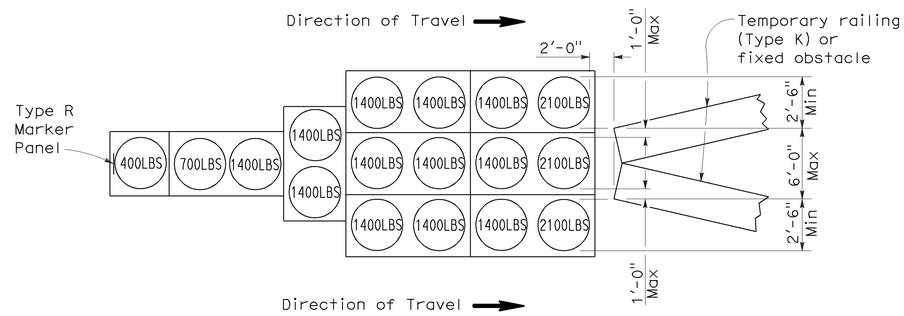
ARRAY 'TU14'

Approach speed 45 mph or more



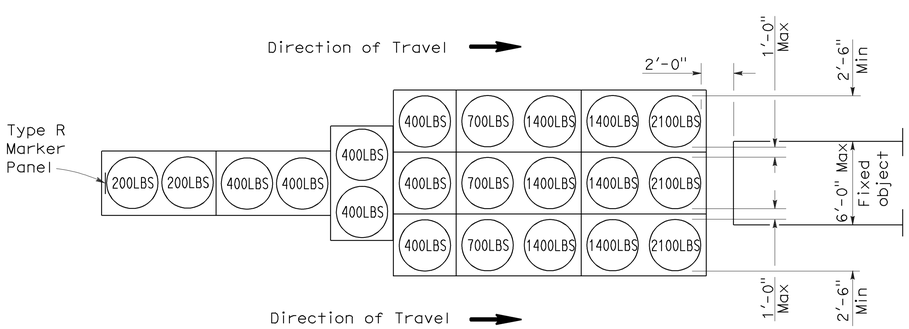
ARRAY 'TU11'

Approach speed less than 45 mph



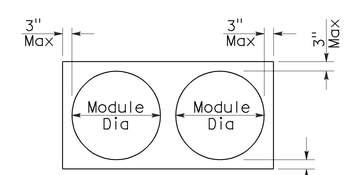
ARRAY 'TU17'

Approach speed less than 45 mph

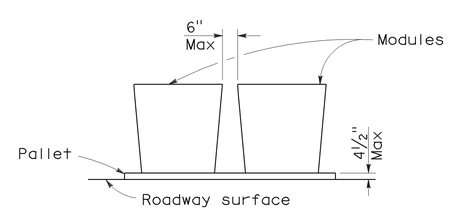


ARRAY 'TU21'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	14	15

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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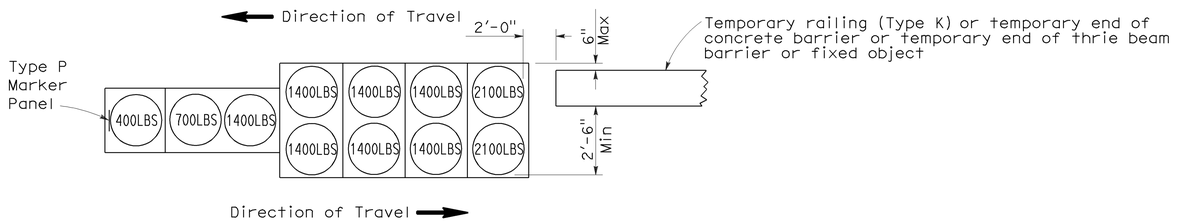
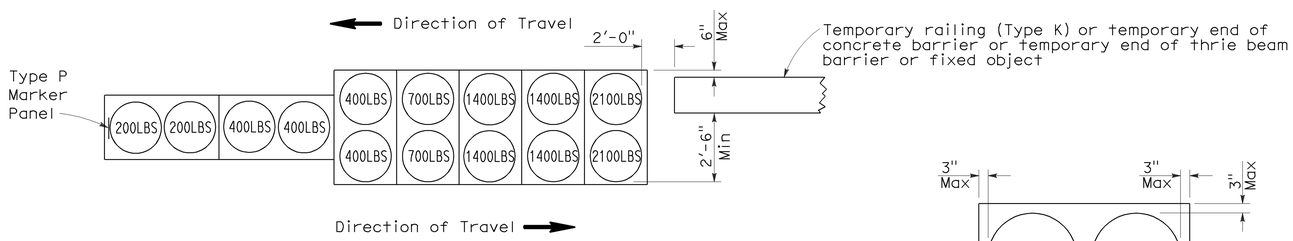
To accompany plans dated 10-29-11



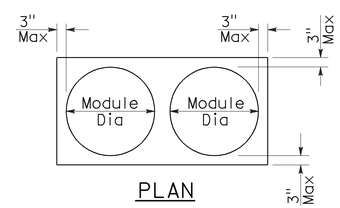
ARRAY 'TB11'

Approach speed less than 45 mph

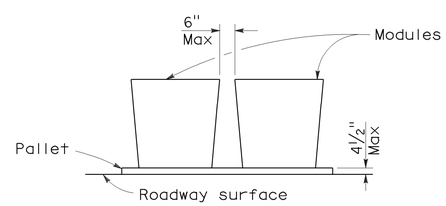


ARRAY 'TB14'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd, Riv	60	R0.6/R10.0, R0.0/R0.2	15	15

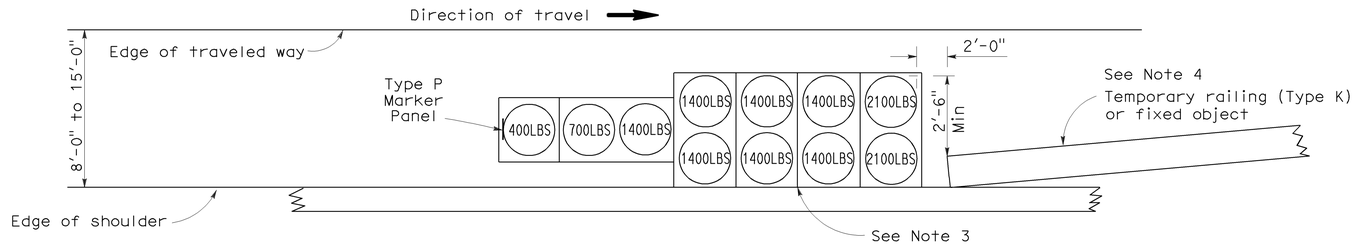
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

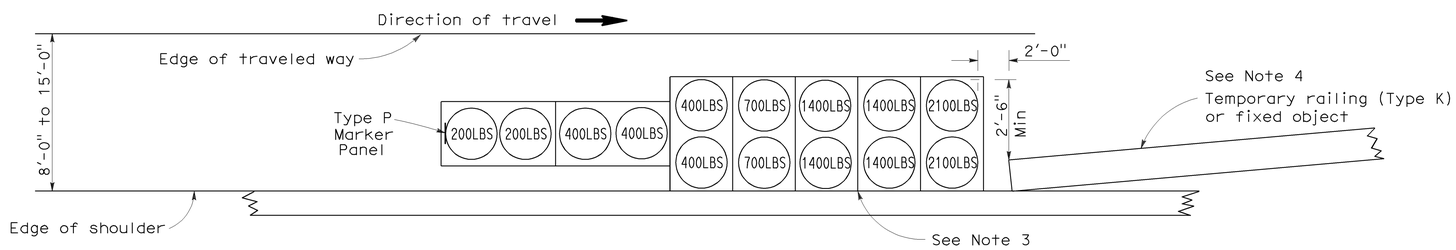
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 10-29-11



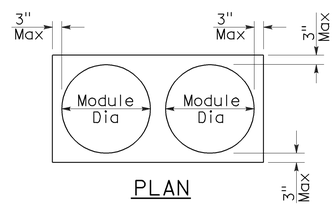
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

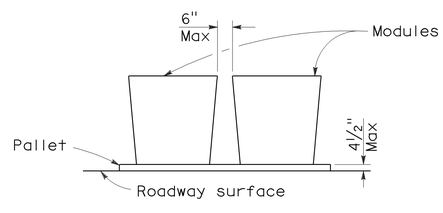


ARRAY 'TS14'

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.

2006 REVISED STANDARD PLAN RSP T2

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

5-15-08