Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	1	7

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION AND CONSTRUCTION AREA SIGNS
3	CONSTRUCTION DETAILS
4	SUMMARY OF QUANTITIES
5-6	TRAFFIC CONTROL SYSTEM
7	REVISED STANDARD PLAN

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

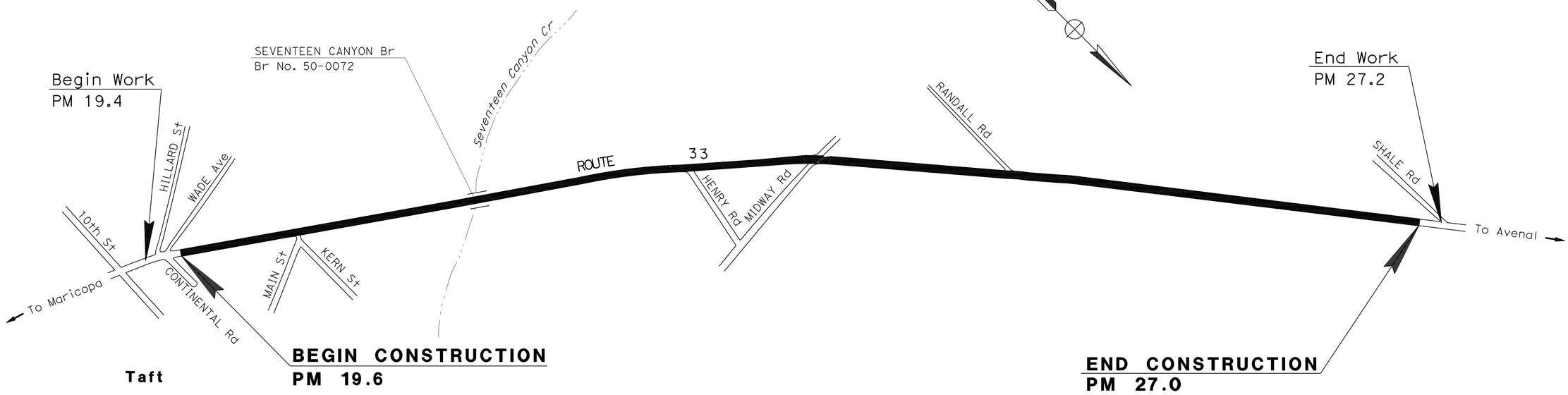
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN KERN COUNTY IN AND NEAR TAFT FROM 0.5 MILE NORTH OF 10TH STREET TO 0.2 MILE SOUTH OF SHALE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



NO SCALE

1-28-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 11, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHUE X. VUE
No. 63657
Exp. 09/30/14
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."

PROJECT MANAGER: BILL MOSES
DESIGN ENGINEER: FRANK GONZALEZ

CONTRACT No.	06-0Q0704
PROJECT ID	0613000053

LAST REVISION 01-28-13
DATE PLOTTED => 19-FEB-2013
TIME PLOTTED => 19:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	2	7

REGISTERED CIVIL ENGINEER 1-28-13 DATE

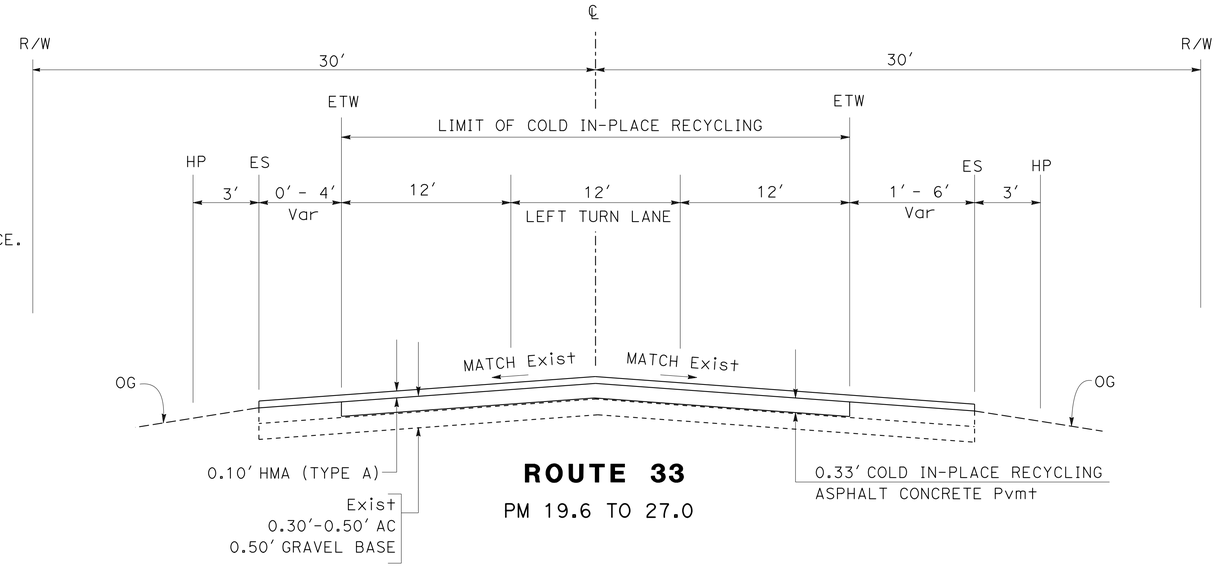
2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHUE X. VUE No. 63657 Exp. 09/30/14 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.

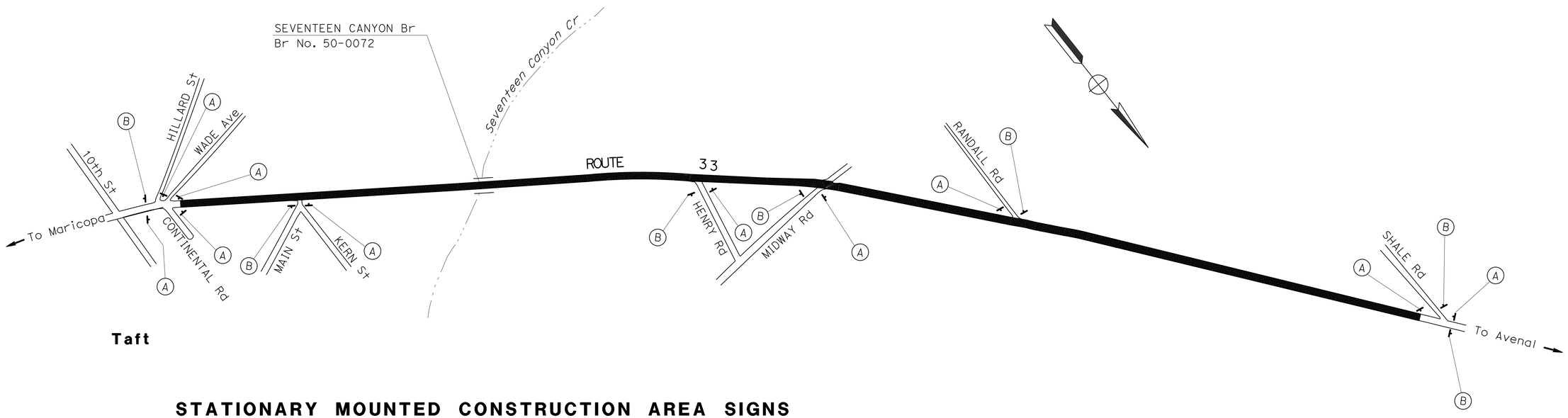
NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCE SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. FOR LOCATIONS OF COLD PLANING AC PAVEMENT SEE PLAN SHEET Q-1.



ROUTE 33

PM 19.6 TO 27.0



Taft

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
A	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	10
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	7

· NOTE: EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINE BY THE ENGINEER.

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

TYPICAL CROSS SECTION AND CONSTRUCTION AREA SIGNS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: TONY VAZQUEZ
CHECKED BY: SHUE VUE
REVISED BY
DATE REVISED

LAST REVISION 01-28-13 | DATE PLOTTED => 19-FEB-2013 | TIME PLOTTED => 19:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	3	7

REGISTERED CIVIL ENGINEER 1-28-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHUE X. VUE
No. 63657
Exp. 09/30/14
CIVIL
STATE OF CALIFORNIA

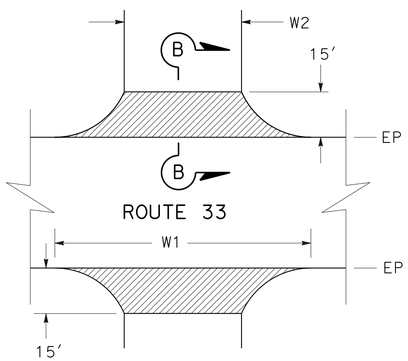
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR COLD PLANING AC PAVEMENT LOCATIONS SEE PLAN SHEET Q-1.

LEGEND:

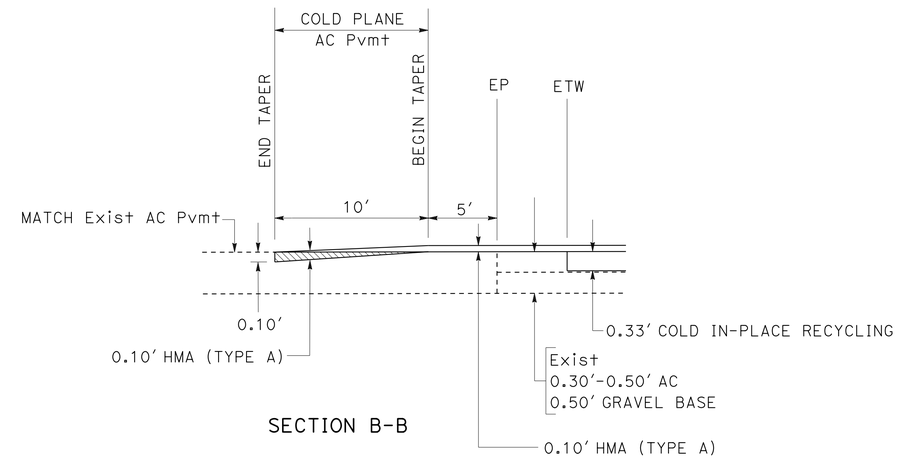
- 0.10' HMA (TYPE A)
- COLD PLANE AC Pvmt 0.10' Max



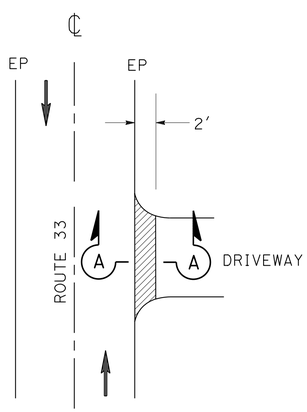
LOCAL STREET INTERSECTION

LOCAL STREET INTERSECTION DIMENSIONS

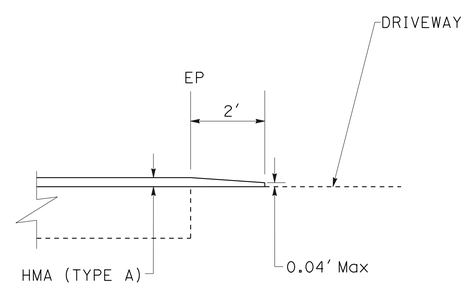
LOCATION	DIRECTION	W1 LF	W2 LF
MAIN St	NORTHBOUND	74	38
HENRY Rd	NORTHBOUND	103	59
MIDWAY Rd	NORTHBOUND	138	94
MIDWAY Rd	SOUTHBOUND	166	87
PM 24.8	SOUTHBOUND	196	130
RANDALL Rd	SOUTHBOUND	117	72



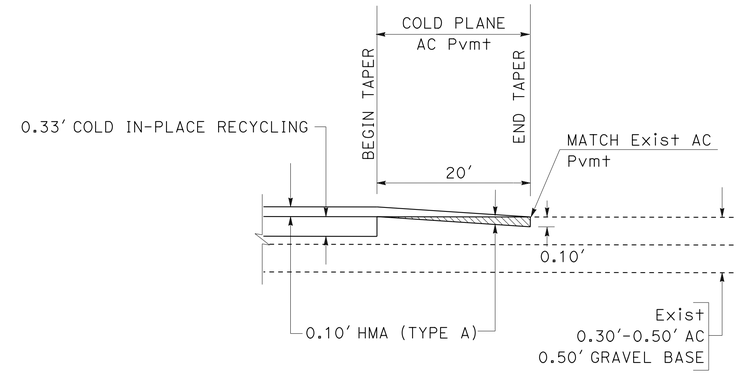
SECTION B-B



DRIVEWAYS CONSTRUCTION (TYPICAL)



SECTION A-A



LONGITUDINAL TRANSITION TAPER

(PM 19.6 AND PM 27.0)

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: TONY VAZQUEZ
CHECKED BY: SHUE VUE
REVISED BY
DATE REVISED

LAST REVISION 01-28-13
DATE PLOTTED => 19-FEB-2013
TIME PLOTTED => 19:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	4	7

REGISTERED CIVIL ENGINEER 1-28-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHUE XAIXA VUE No. 63657 Exp. 9-30-14 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.

COLD PLANE AC PAVEMENT

LOCATION	DIRECTION	AREA
		SQYD
MAIN St	NORTHBOUND	55
HENRY Rd	NORTHBOUND	68
MIDWAY Rd	NORTHBOUND	124
MIDWAY Rd	SOUTHBOUND	103
PM 24.8	SOUTHBOUND	169
RANDALL Rd	SOUTHBOUND	97
LONGITUDINAL TRANSITION TAPER		122
TOTAL		738

ROADWAY QUANTITIES

LOCATION	COLD IN-PLACE RECYCLING					TACK COAT	HMA (TYPE A)
	COLD IN-PLACE RECYCLING	EMULSIFIED RECYCLING AGENT	RECYCLING ADDITIVE (CEMENT)	ASPHALTIC EMULSION (FOG SEAL)	SAND COVER		
	SQYD	TON	TON	TON	TON	TON	TON
PM 19.6 TO 27.0	111,825	722	181	42	112	38.0	8,544
LOCAL STREET INTERSECTION						0.2	75
LONGITUDINAL TRANSITION TAPER						0.1	9
TOTAL	111,825	722	181	42	112	38.3	8,628

PAVEMENT DELINEATION

LOCATION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER (RETROREFLECTIVE)				THERMOPLASTIC PAVEMENT MARKING	
		8"	4"	4" (BROKEN 12-3)	4" (BROKEN 36-12)	TYPE D TWO-WAY YELLOW	TYPE G ONE-WAY CLEAR	TYPE H ONE-WAY YELLOW	REMOVE PAVEMENT MARKER (N)		
		LF	LF	LF	LF	EA	EA	EA	EA	DESCRIPTION	SQFT
ROUTE 33	6				19,219	428			428	6-TYPE IV (L) ARROW	90
	19		9,874		9,874	228		442	670	LIMIT LINE	268
	22		20,275			910			910		
	27B		77,141								
	27C			1,162							
	29		3,591			85			85		
	38	1,372					34		34		
SUBTOTAL		1,372	110,881	1,162	29,093	1,651	34	442	2,127		358
TOTAL		1,372	110,881	1,162	29,093	2,127			2,127		358

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

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: TONY VAZQUEZ
CHECKED BY: SHUE VUE
REVISED BY
DATE REVISED

LAST REVISION 01-28-13
DATE PLOTTED => 19-FEB-2013
TIME PLOTTED => 19:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	5	7

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

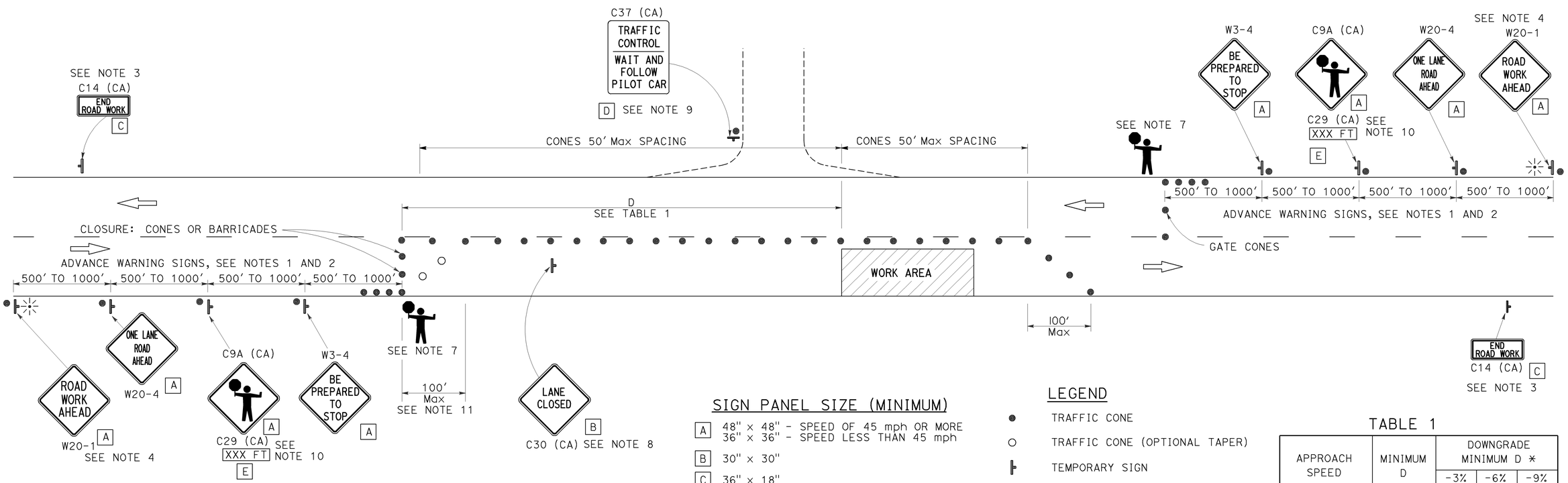
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

A	48" x 48" - SPEED OF 45 mph OR MORE 36" x 36" - SPEED LESS THAN 45 mph
B	30" x 30"
C	36" x 18"
D	36" x 42"
E	36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

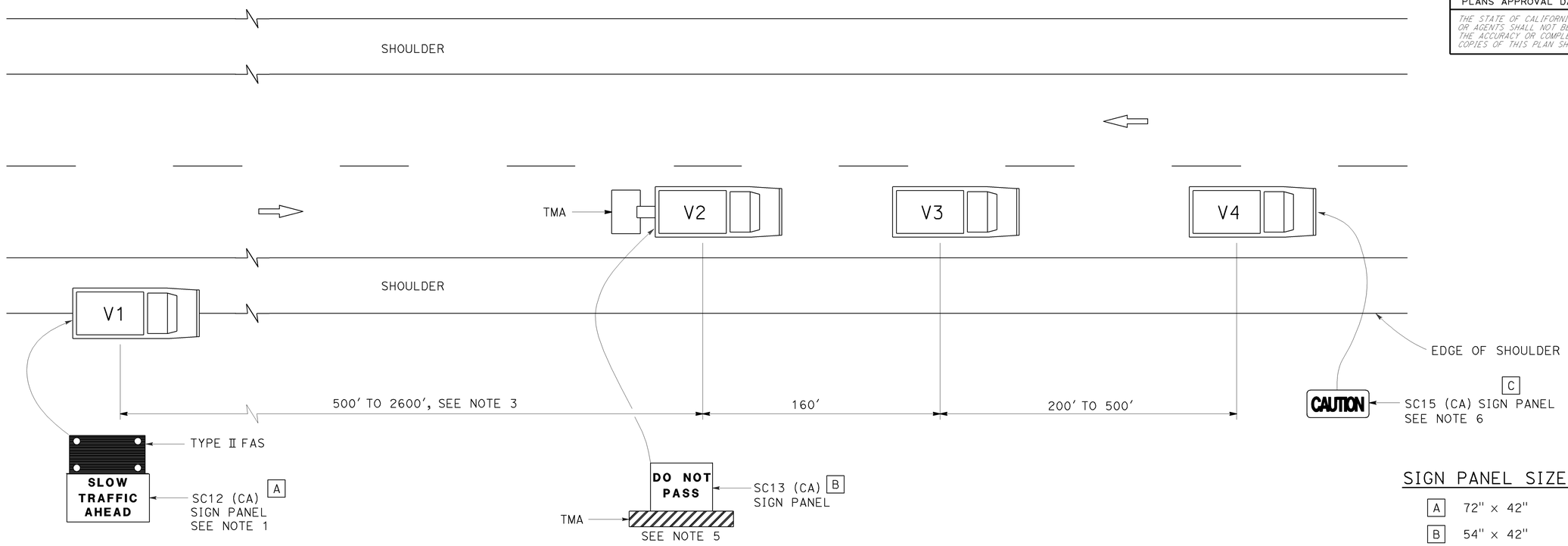
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	6	7

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 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.



SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	19.6/27.0	7	7

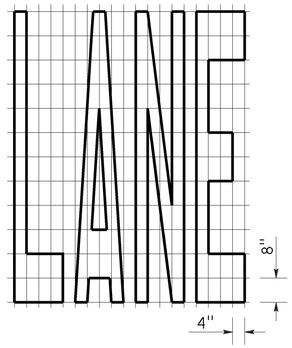
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

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 SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-11-13



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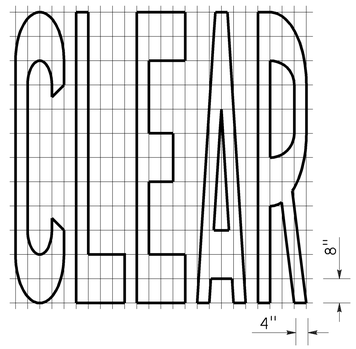

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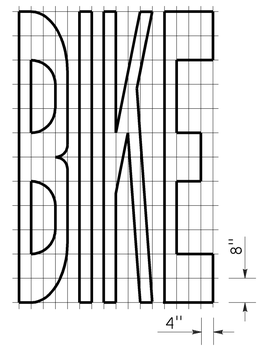

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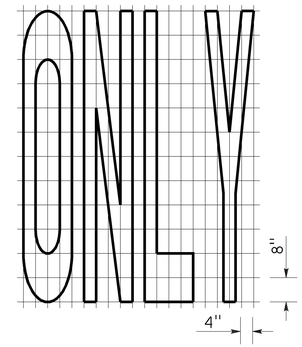

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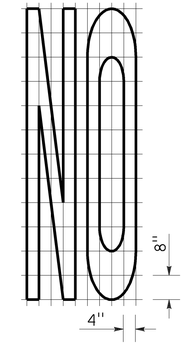

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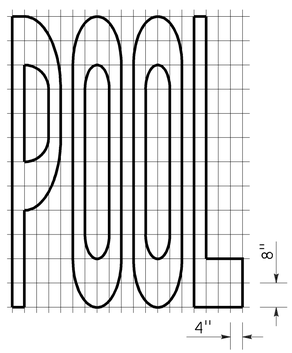

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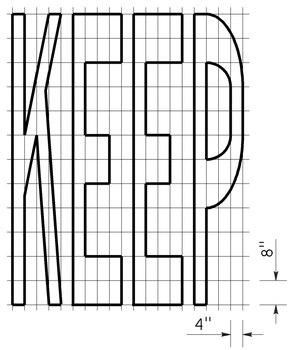

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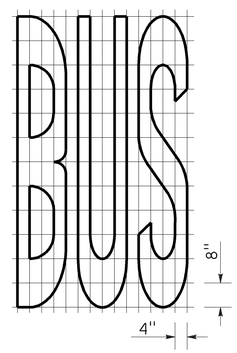

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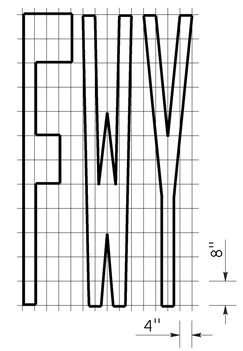

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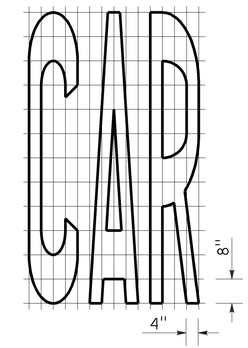
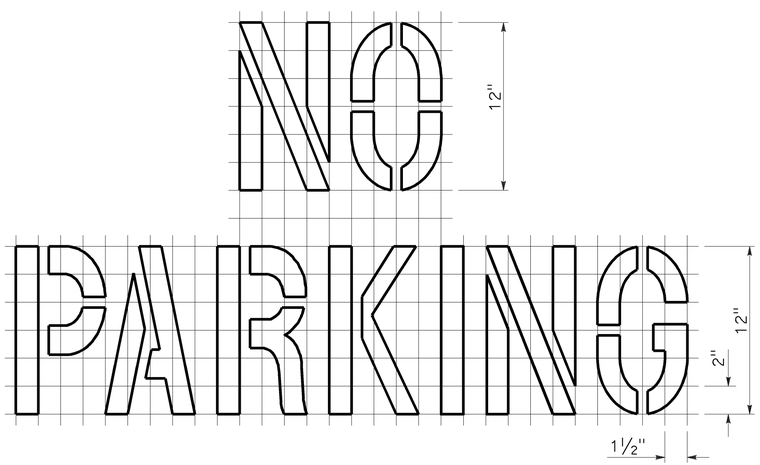


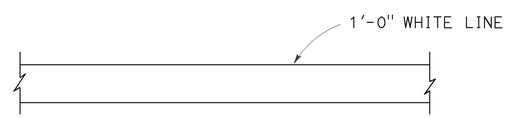
A=17 ft²

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

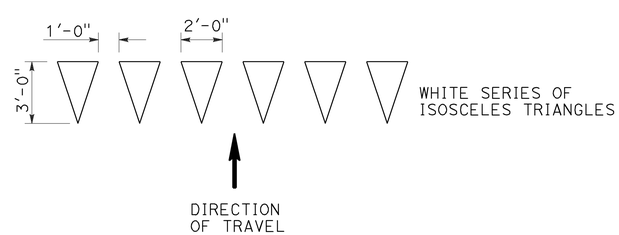


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12