Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	34.3/45.5, 68.8/73.7	1	6

INDEX OF PLANS

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

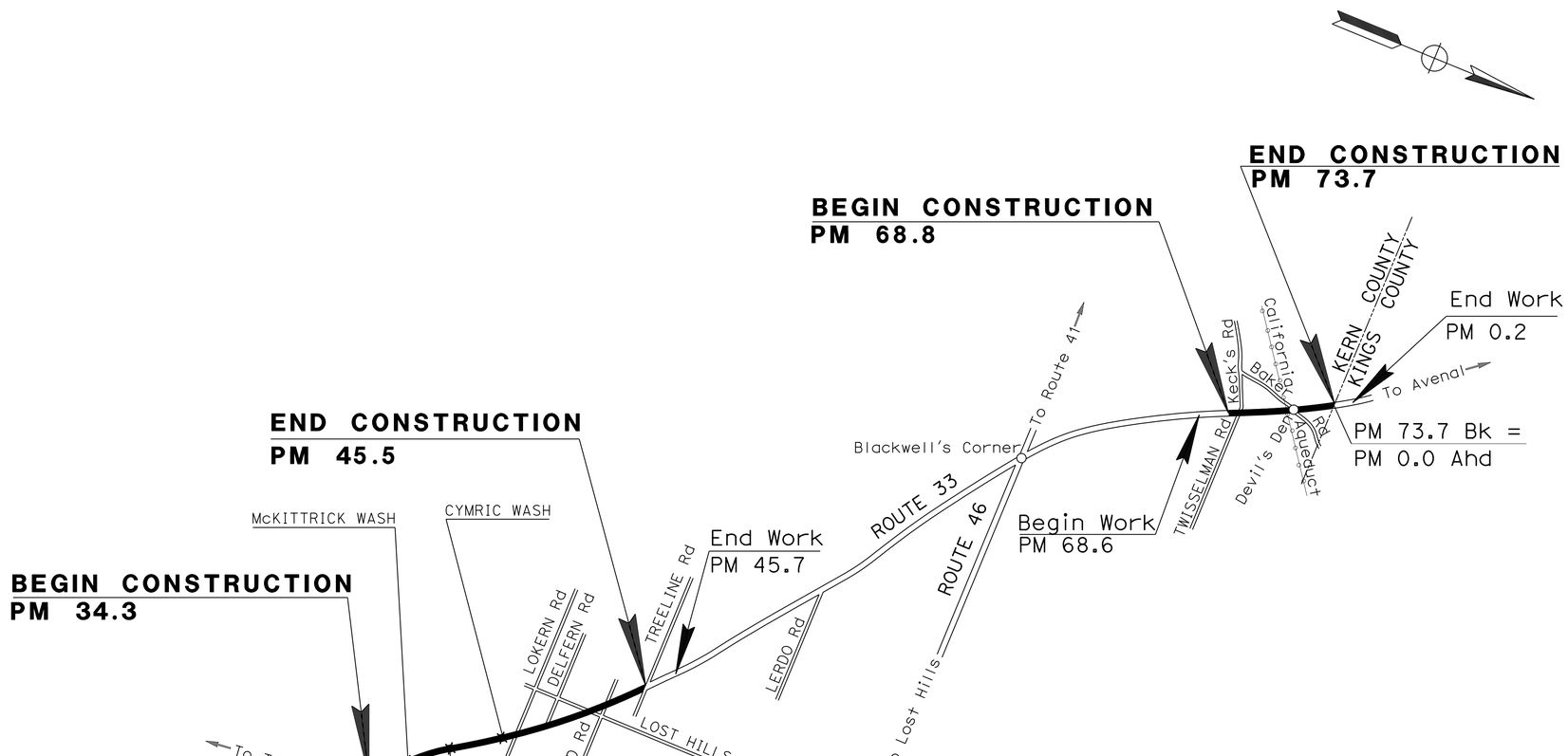
STATE HIGHWAY

IN KERN COUNTY NEAR MCKITTRICK

FROM ROUTE 58 TO 1.4 MILES NORTH OF LOST HILLS ROAD AND FROM 0.5 MILE SOUTH OF TWISSELMAN ROAD TO KINGS COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



NO SCALE

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

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE: 01-31-13

REGISTERED PROFESSIONAL ENGINEER — Jose Victor Echeveste — No. 50825 — Exp. 09-30-13 — CIVIL — STATE OF CALIFORNIA

February 19, 2013
PLANS APPROVAL DATE

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

CONTRACT No.	06-0N2704
PROJECT ID	0600020499

LAST REVISION 02-15-13 — DATE PLOTTED => 20-FEB-2013 — TIME PLOTTED => 09:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	34.3/45.5, 68.8/73.7	2	6

REGISTERED CIVIL ENGINEER 1-31-13 DATE

2-19-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jose Victor Echeveste No. 50825 Exp. 09-30-13 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.

NOTE:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT OF WAY ENGINEERING AT THE DISTRICT OFFICE

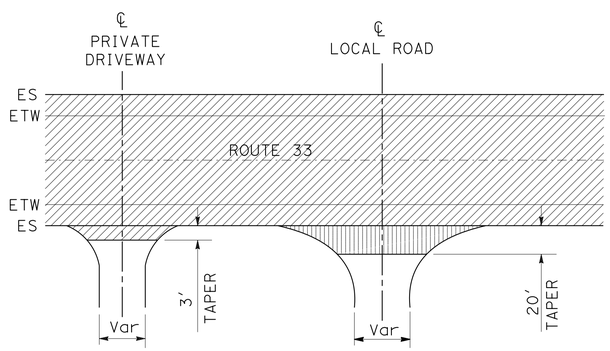
ABBREVIATION:

BWC = BONDED WEARING COURSE - GAP GRADED

LEGEND

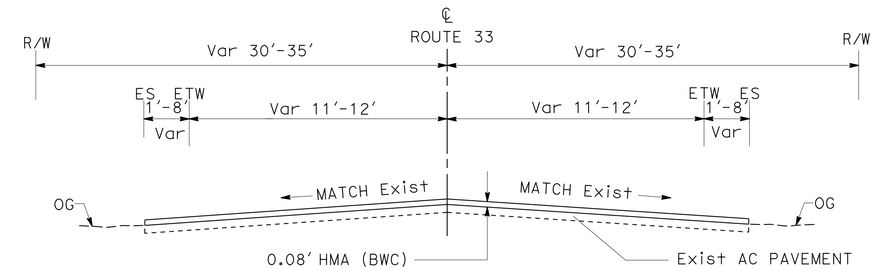
0.08' HMA (BWC)

0.08' Max COLD PLANE AC Pvmt
0.08' BWC

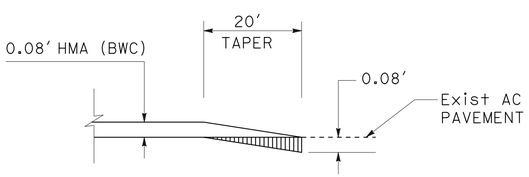


TYPICAL INTERSECTION WORK

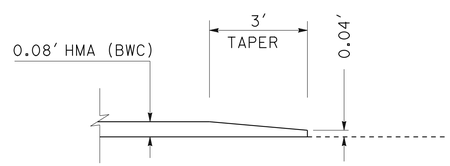
PRIVATE DRIVEWAY INTERSECTIONS	
PM	SIDE
34.77	Lt
35.56	Lt
35.92	Lt, Rt
36.00	Lt
36.45	Rt
37.44	Lt
37.69	Rt
43.31	Lt, Rt
43.62	Lt, Rt
43.84	Rt
43.99	Lt
44.18	Rt
44.20	Rt
44.26	Lt
44.28	Rt
44.72	Lt, Rt



ROUTE 33
PM 34.3 TO 45.5
PM 68.8 TO 73.7



LOCAL ROAD CONFORM TAPER

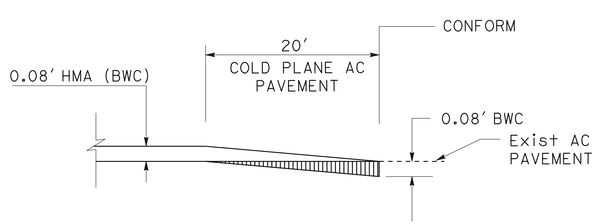


PRIVATE DRIVEWAY CONFORM TAPER

LOCAL ROAD CONFORN TAPER

PM	SIDE	LOCATION	"L"	"W"	COLD PLANE AC PAVEMENT (0.1')	HMA
			FT	FT	SQYD	TON
16.0	Lt/Rt	CYMRICK Rd	20	20	312	202
19.3	Lt/Rt	LOKERN Rd	20	25	312	202
21.0	Lt	DELFERN Rd	20	20	156	101
26.0	Lt/Rt	LOST HILLS Rd	20	20	312	202
30.0	Lt/Rt	7th STANDARD Rd	20	25	312	202
31.0	Lt/Rt	TWISSELMAN Rd	20	25	312	202
33.0	Lt/Rt	BAKER Rd	20	20	312	202
TOTAL					2028*	1313*

* QUANTITIES INCLUDED IN ROADWAY QUANTITIES TABLE



LONGITUDINAL CONFORM TAPER AT BEGIN AND END CONSTRUCTION
(PM 34.3, 45.5, 68.8, 73.7)

TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS

NO SCALE

X-1

REVISED BY | DATE REVISED
PANAYIOTIS STRATARAS | VICTOR ECHEVESTE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
FRANK GONZALEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 02-15-13 | DATE PLOTTED => 20-FEB-2013 | TIME PLOTTED => 09:27

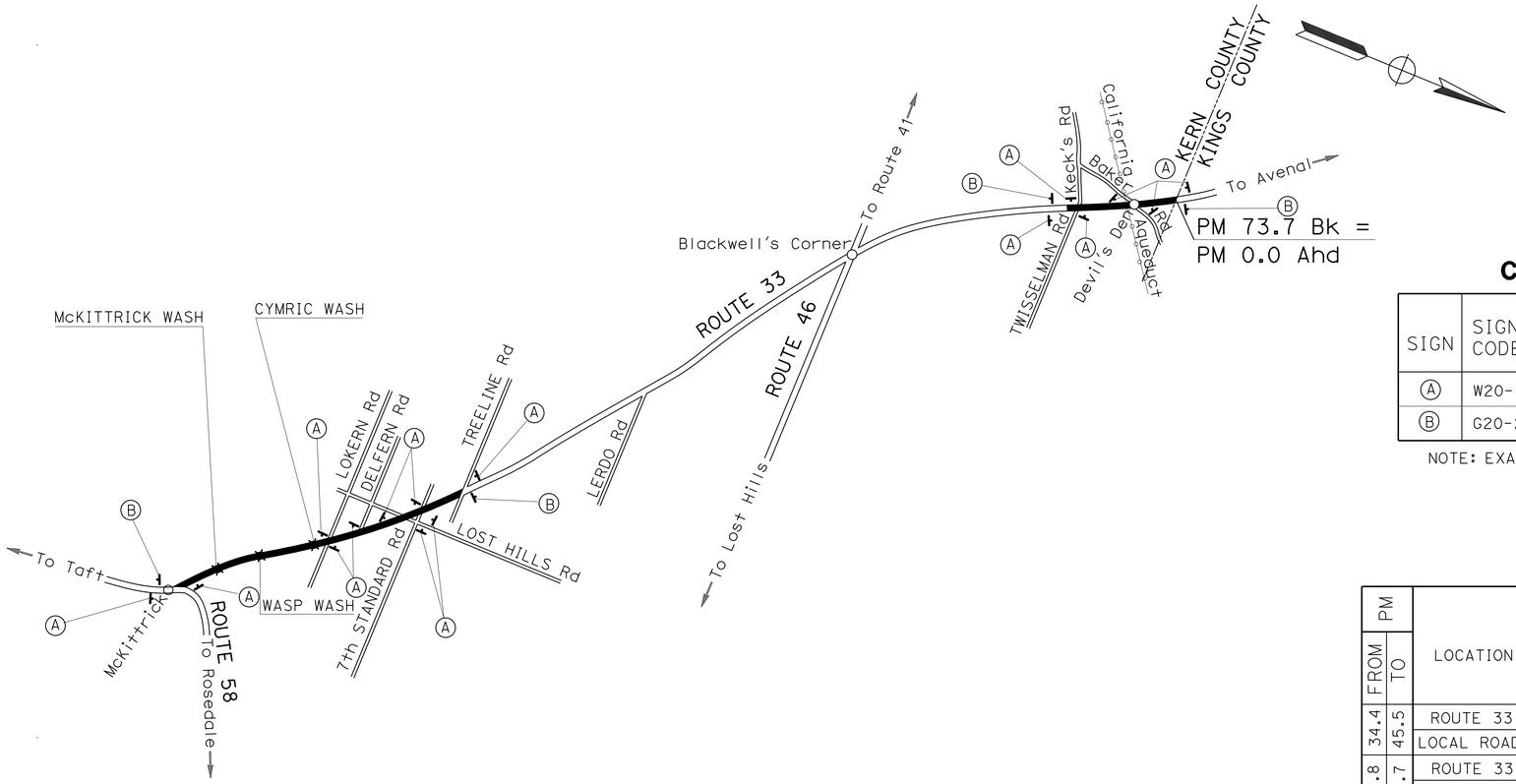
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	34.3/45.5, 68.8/73.7	3	5

REGISTERED CIVIL ENGINEER 01-31-13 DATE

2-19-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jose Victor Echeveste No. 50825 Exp. 09-30-13 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.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	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 4"	16
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	4

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

ROADWAY QUANTITIES

PM FROM	PM TO	LOCATION	HOT MIX ASPHALT (BONDED WEARING COURSE - GAP GRADED) (TON)	ASPHALTIC EMULSION MEMBRANE (BONDED WEARING COURSE) (TON)	COLD PLANE AC PAVEMENT (SQYD)
34.4	45.5	ROUTE 33	8,600	125	120
		LOCAL ROADS	900	10	1400
68.8	73.7	ROUTE 33	4,100	60	140
		LOCAL ROADS	400	5	620
TOTAL			14,000	200	2280

PAVEMENT DELINEATION QUANTITIES

PM	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE 8" (SOLID)	4" (SOLID)	4" (BROKEN 12 - 3)	4" (BROKEN 36 - 12)	PAVEMENT MARKER (RETROREFLECTIVE) TYPE D	TYPE G	TYPE H	THERMOPLASTIC PAVEMENT MARKING DESCRIPTION	SQFT	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER (N)
		LF	LF	LF	LF	LF	EA	EA	EA		SQFT	SQFT	EA
34.3-45.5	6					41,150	860			16-LIMIT LINE	250		3900
	19			11,510		11,510	260		520	3-TYPE III (R) ARROW	126	126	
	22			14,000			620			1-SCHOOL (YELLOW)	35	35	
	27B			118,000									
	27C				2500								
	38	700	350					20					
68.8-73.7	6					24,450	520			4-LIMIT LINE	75		1600
	19			1,430		1,430	30		80				
	27B			52,000									
	27C				1500								
SUBTOTAL		700	350	196,940	4000	78,540	2290	20	600		486	161	
TOTAL		700	350	196,940	4000	78,540		2,910			486	161	

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

CONSTRUCTION AREA SIGNS AND SUMMARY OF QUANTITIES

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: PANAYIOTIS STRATARAS
CHECKED BY: VICTOR ECHEVESTE
REVISED BY
DATE REVISED

LAST REVISION 02-15-13 | DATE PLOTTED => 20-FEB-2013 | TIME PLOTTED => 09:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	34.3/45.5, 68.8/73.7	4	6

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-19-13
PLANS APPROVAL DATE

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

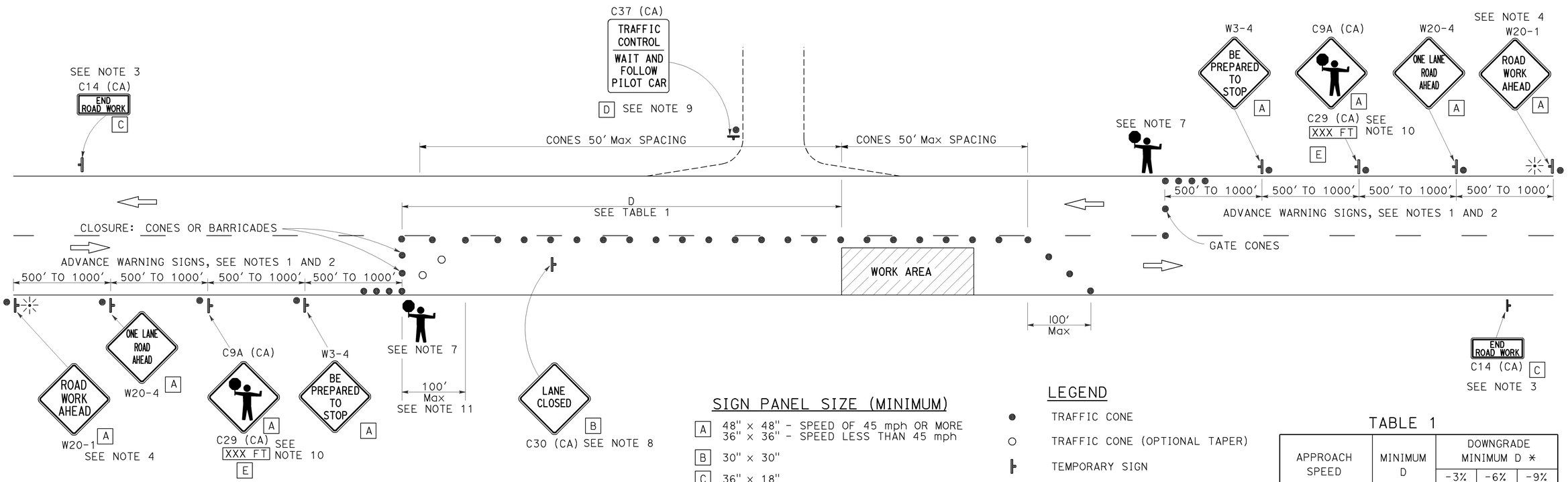
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

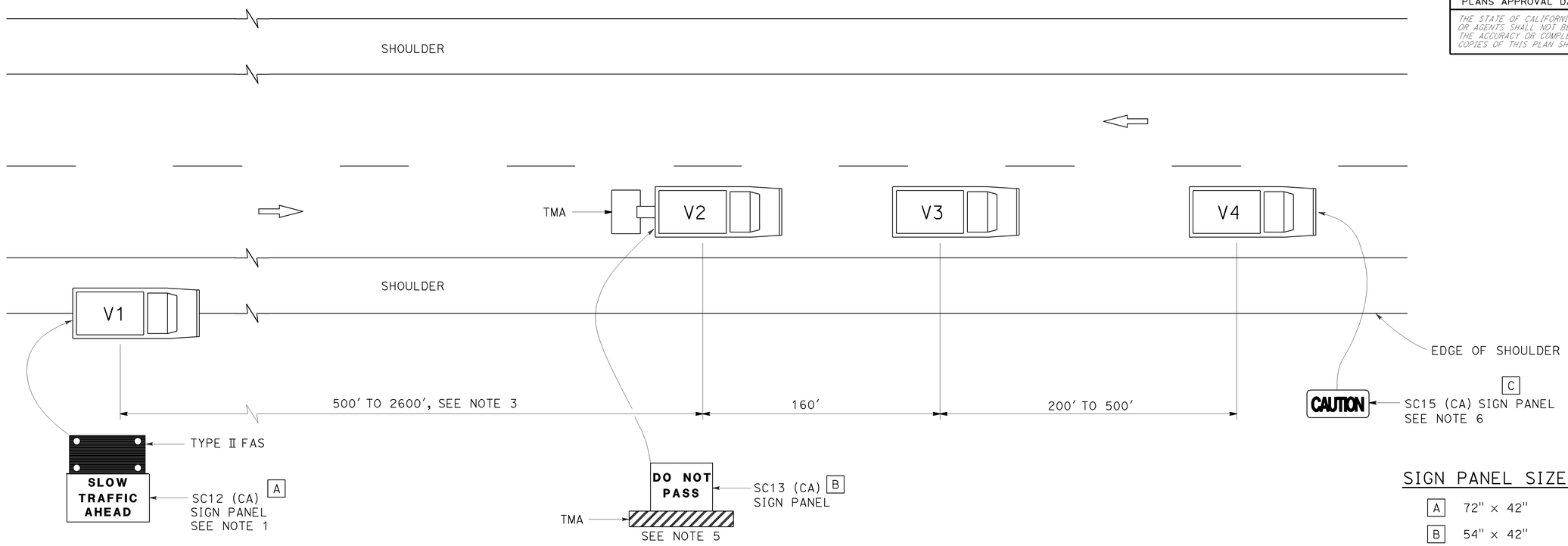
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	33	34.3/45.5, 68.8/73.7	5	6

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-19-13
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	34.3/45.5, 68.8/73.7	6	6

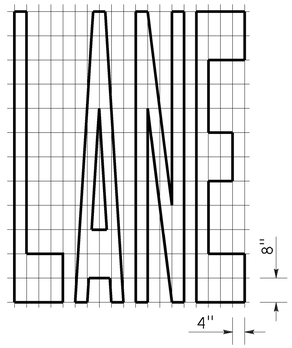
REGISTERED CIVIL ENGINEER

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 2-19-13



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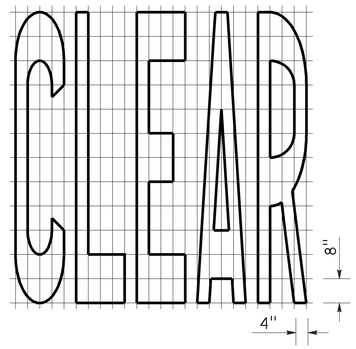

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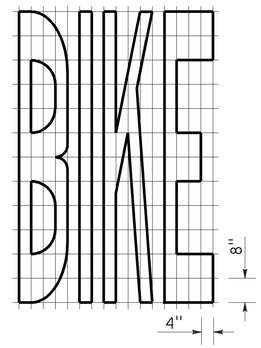

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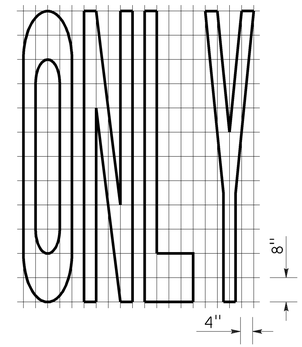

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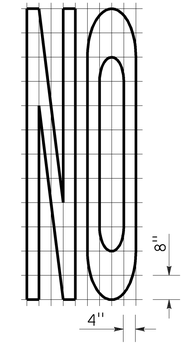

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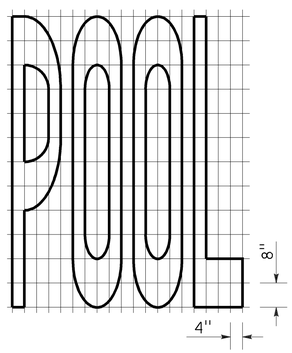

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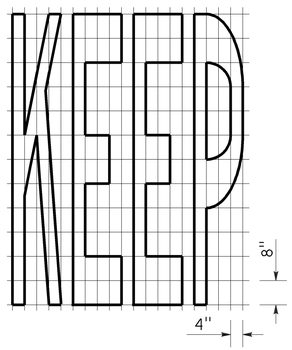

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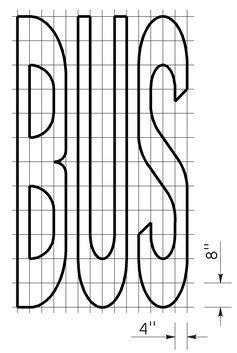

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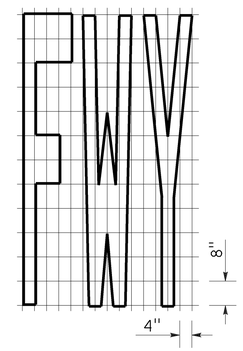

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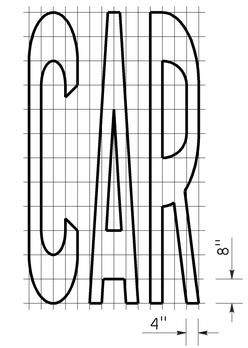
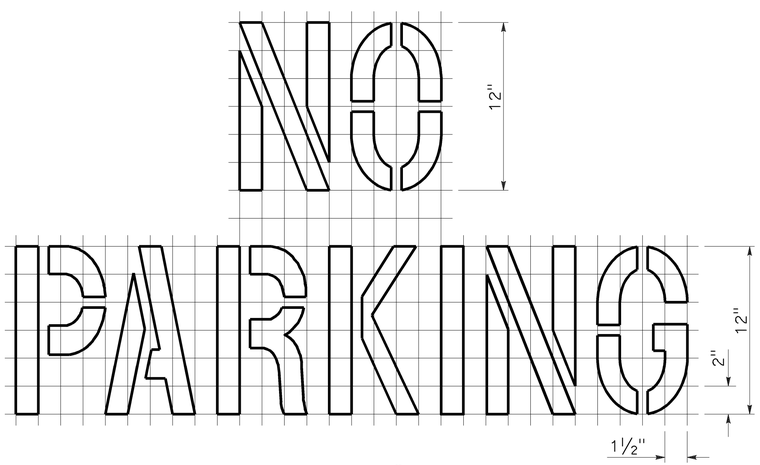


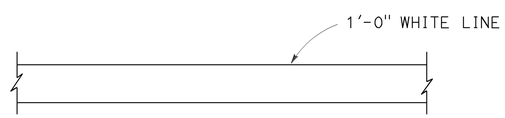
A=17 ft²

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

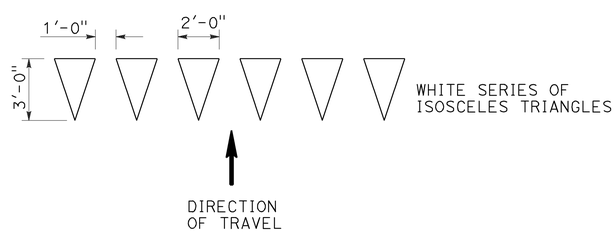


A=2 ft²

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