Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	1	11

INDEX OF PLANS

Sheet No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6	SUMMARY OF QUANTITIES
7-9	TRAFFIC CONTROL SYSTEM
10-11	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

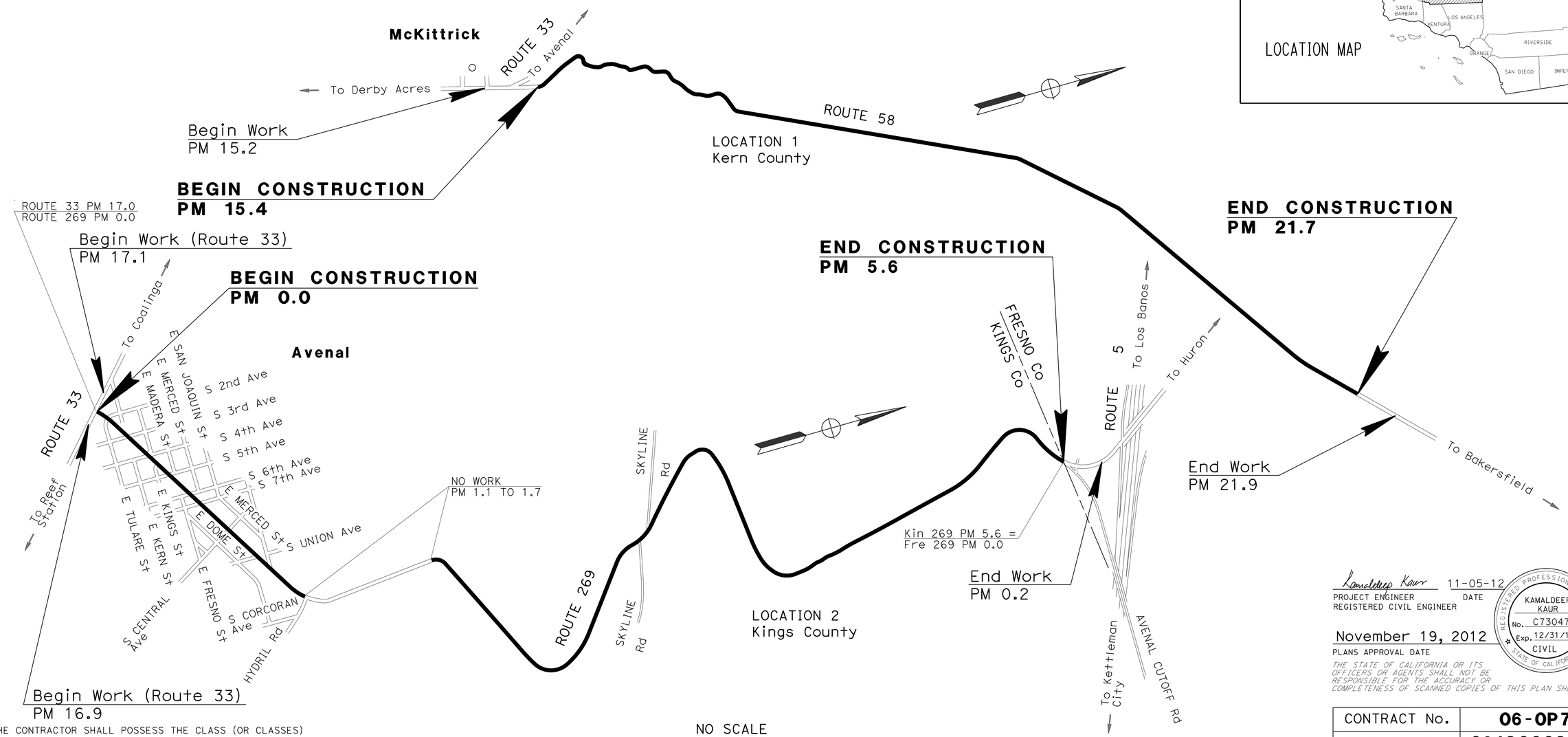
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN KERN AND KINGS COUNTIES NEAR McKITTRICK ON ROUTE 58 FROM 0.1 MILE EAST OF ROUTE 33 TO 6.5 MILES EAST OF ROUTE 33 AND NEAR AVENAL ON ROUTE 269 FROM ROUTE 33 TO FRESNO COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



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

NO SCALE

Kamaldeep Kaur 11-05-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/14
CIVIL
STATE OF CALIFORNIA

November 19, 2012
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.	06-0P7304
PROJECT ID	0612000248

PROJECT MANAGER: BILL MOSES
DESIGN ENGINEER: FRANK GONZALEZ

LAST REVISION 01-17-13
DATE PLOTTED => 01-FEB-2013
TIME PLOTTED => 09:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	2	11

Kamaldeep Kaur 11-05-12
REGISTERED CIVIL ENGINEER DATE

11-19-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMALDEEP KAUR No. C73047 Exp. 12/31/14 CIVIL STATE OF CALIFORNIA

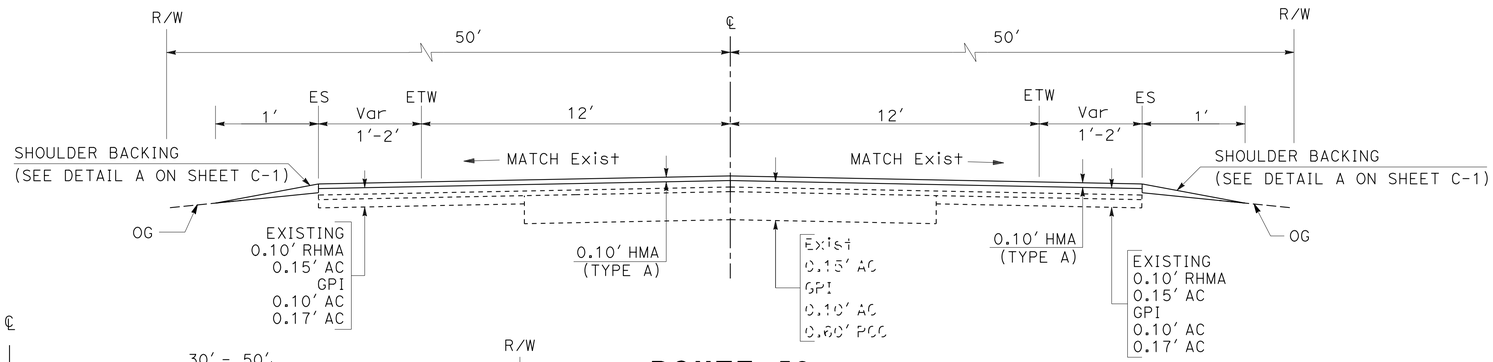
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

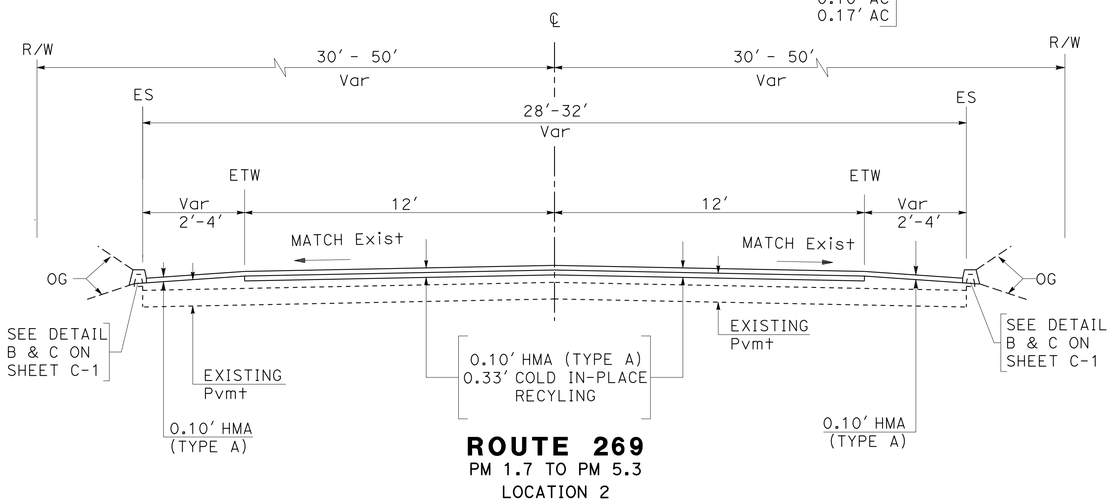
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. FOR LOCATIONS AND DETAILS OF COLD PLANE AC Pvmt, SEE SHEET C-1 AND Q-1.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.

ABBREVIATIONS:

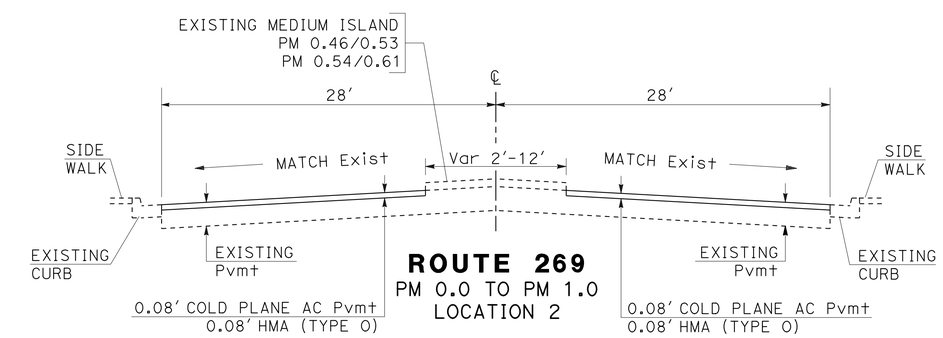
HMA (TYPE O) - HOT MIX ASPHALT (OPEN GRADED)
GPI - GEOSYNTHETIC PAVEMENT INTERLAYER



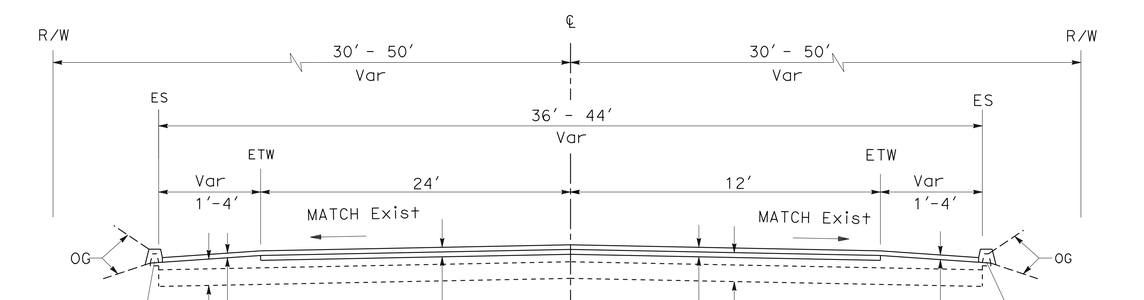
ROUTE 58
PM 15.4 TO PM 21.7
LOCATION 1



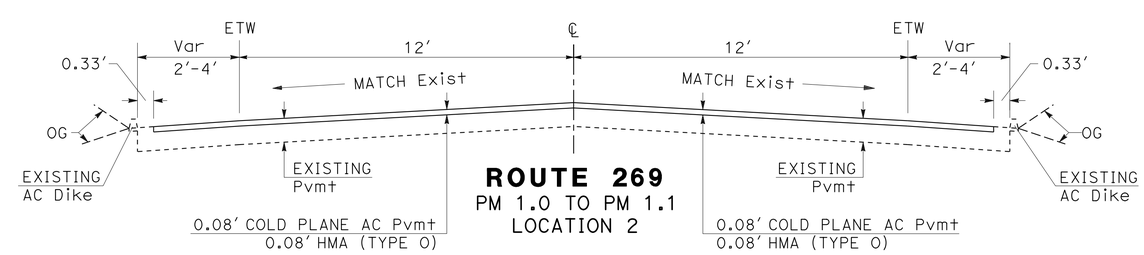
ROUTE 269
PM 1.7 TO PM 5.3
LOCATION 2



ROUTE 269
PM 0.0 TO PM 1.0
LOCATION 2



ROUTE 269
PM 5.3 TO PM 5.6
LOCATION 2



ROUTE 269
PM 1.0 TO PM 1.1
LOCATION 2

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-17-13
DATE PLOTTED => 01-FEB-2013
TIME PLOTTED => 09:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	3	11

Kamaldeep Kaur 11-05-12
REGISTERED CIVIL ENGINEER DATE

11-19-12
PLANS APPROVAL DATE

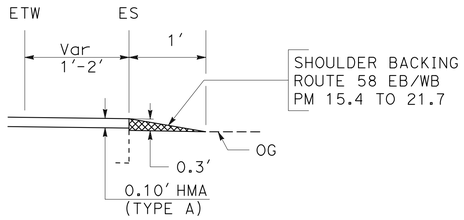
REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp.12/31/14
CIVIL
STATE OF CALIFORNIA

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.

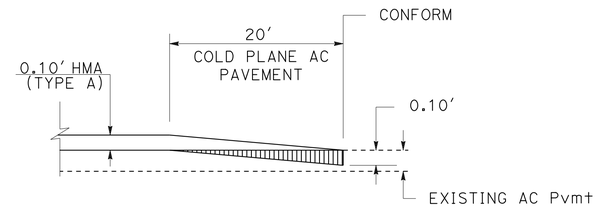
NOTE: 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND

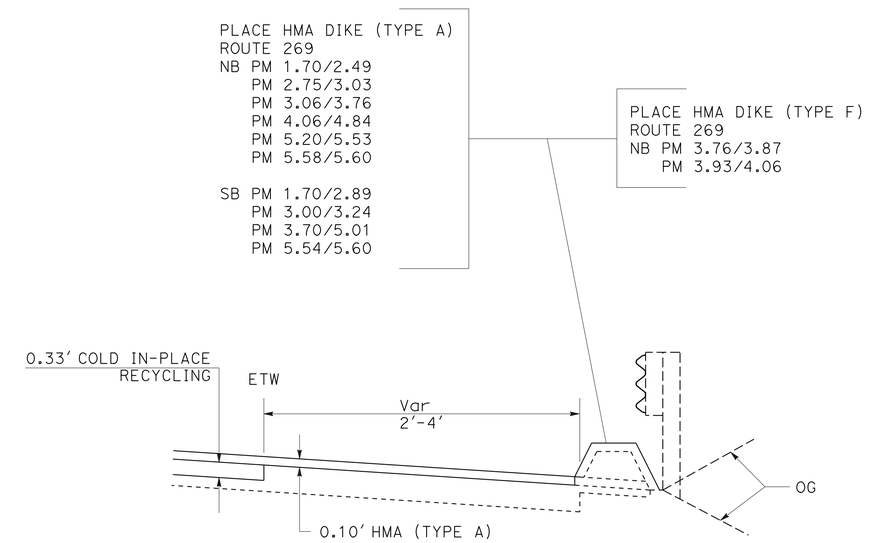
0.10′ COLD PLANE AC Pvmt



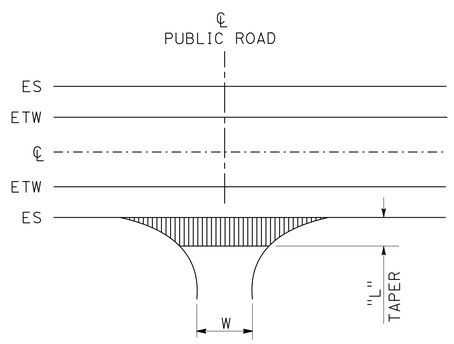
DETAIL A



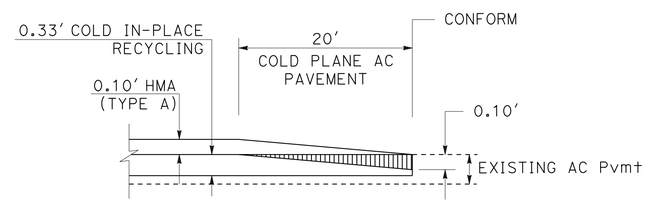
ROUTE 58
LONGITUDINAL CONFORM TAPER
AT BEGIN AND END CONSTRUCTION



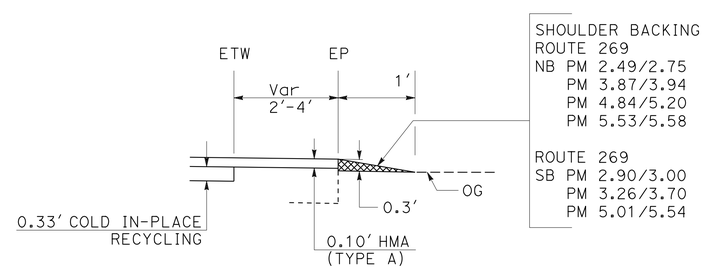
DETAIL B



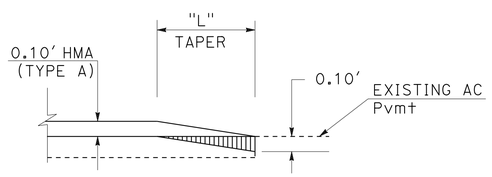
ROUTE 269
TYPICAL INTERSECTION WORK



ROUTE 269 PM 1.7 TO PM 5.6
LONGITUDINAL CONFORM TAPER
AT BEGIN AND END CONSTRUCTION



DETAIL C



ROUTE 269
PUBLIC ROAD CONFORM TAPER

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 01-17-13
DATE PLOTTED => 01-FEB-2013
TIME PLOTTED => 09:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	4	11

Kamaldeep Kaur 11-05-12
REGISTERED CIVIL ENGINEER DATE

11-19-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp. 12/31/14
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.

LOCATION OF EXISTING ELECTRICAL LOOPS, DRAINAGE INLETS, AND OVERSIDE DRAINAGE

LOCATION	ROUTE	PM	ELECTRICAL LOOPS (N)	DRAINAGE INLETS (N)	OVERSIDE DRAINAGES (N)	REMARKS
			EA	EA	EA	
2	269	0.049		1		CITY OF AVENAL
		0.063		1		
		0.157		1		
		0.163		1		
		0.170		1		
		0.173		1		
		0.248		1		
		0.282		1		
		0.373		1		
		0.381		1		
		0.462		1		
		0.498		1		
		0.516	7			CALTRANS
		0.521		1		
		0.533		1		
		0.542		1		
		0.547	6			CALTRANS
		0.550		1		CITY OF AVENAL
		0.679		1		
		0.684		1		
		0.694		1		
		0.698		1		
		1.033			1	CALTRANS
		2.290			1	
		2.780			1	
		3.000			2	
		3.470			1	
		3.560			1	
		3.650			1	
		3.770			1	
		3.890			1	
		3.980			1	
		4.020			1	
		4.430			1	
		4.550			1	
		4.570			1	
		4.840			1	
		4.850			1	

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

LOCATIONS OF EXISTING UTILITIES FACILITIES

LOCATION	ROUTE	PM	VALVE COVER (N)	SEWAGE MANHOLE (N)	REMARKS
			EA	EA	
2	269	0.053		1	CITY OF AVENAL
		0.087		1	
		0.210		1	
		0.335		1	
		0.361	2		
		0.364	1		
		0.379	1		
		0.529	1		
		0.902		2	

CONSTRUCTION DETAILS (EXISTING UTILITIES LOCATION)

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 11-05-12
DATE PLOTTED => 01-FEB-2013
TIME PLOTTED => 09:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	5	11

Kamaldeep Kaur 11-05-12
REGISTERED CIVIL ENGINEER DATE

11-19-12
PLANS APPROVAL DATE

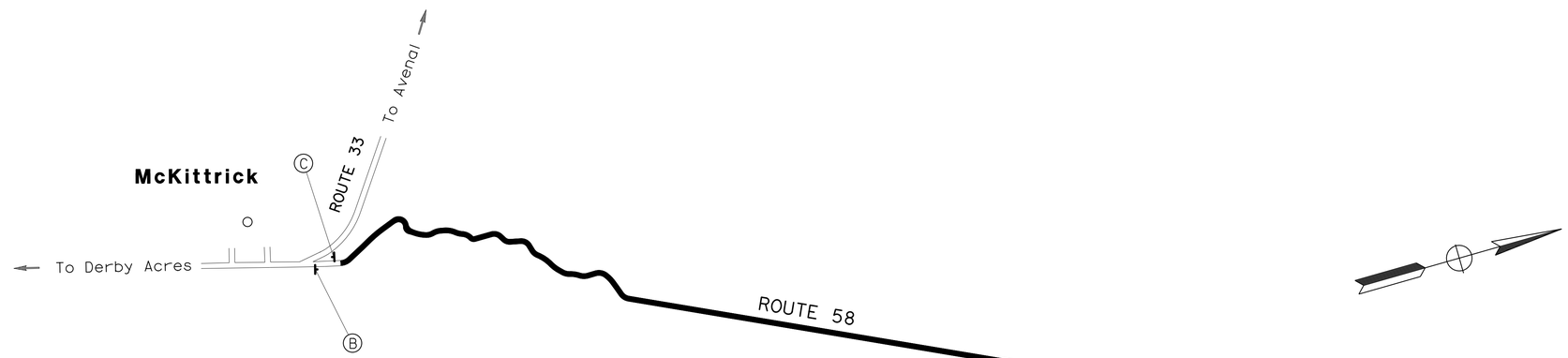
REGISTERED PROFESSIONAL ENGINEER
KAMALDEEP KAUR
No. C73047
Exp.12/31/14
CIVIL
STATE OF CALIFORNIA

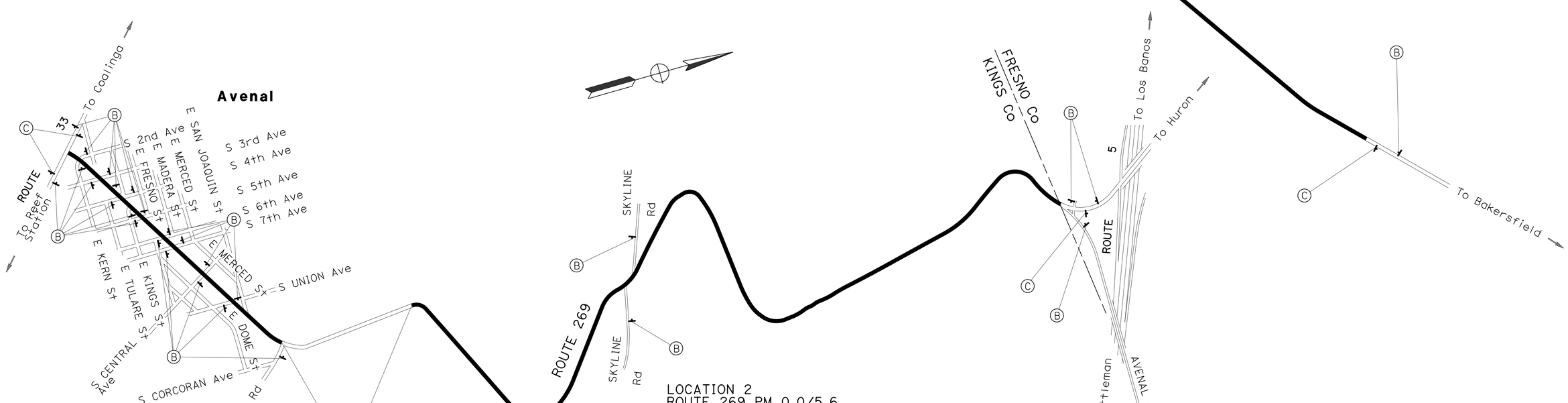
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(B)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	28
(C)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	5

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





APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: LEE XIONG
CHECKED BY: KAMALDEEP KAUR
REVISED BY
DATE REVISED

LAST REVISION 11-05-12
DATE PLOTTED => 01-FEB-2013
TIME PLOTTED => 09:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	6	11

Kamaldeep Kaur 11-05-12
REGISTERED CIVIL ENGINEER DATE

11-19-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMALDEEP KAUR No. C73047 Exp. 12/31/14 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.

ROADWAY QUANTITIES

LOCATION	ROUTE	PM	HMA (TYPE A)	HOT MIXED ASPHALT (OPEN GRADED)	TACK COAT	SHOULDER BACKING	ASPHALTIC EMULSION (FOG SEAL COAT)	EMULSIFIED RECYCLING AGENT	SAND COVER	COLD IN-PLACE RECYCLING	RECYCLING ADDITIVE (CEMENT)	COLD PLANE AC Pvmt	PLACE HMA DIKE	
													TYPE A	TYPE F
			TON	TON	TON	TON	TON	TON	TON	SQYD	TON	SQYD	LF	LF
1	58	15.4/21.7	6760		30	540								
2	269	0.0/1.1		1475	10							34,737		
		1.7/5.6	5160		17	80	16	503	58	57,024	130		30,095	1267
		DIKE	374											
	CONFROM TAPER		51									789		
TOTAL			12,345	1475	57	620	16	503	58	57,024	130	35,526	30,095	1267

CONFORM TAPER

LOCATION	ROUTE	PM	SIDE	LOCATION	"L"	"W"	COLD PLANE AC PAVEMENT (0.10')	HMA (TYPE A)
							SQYD	TON
1	58	15.4		BEGIN	20'	28'	62	4
		21.7		END	20'	28'	62	4
2	269	1.7		BEGIN	20'	28'	62	4
		3.0	R†	SKYLINE Rd	20'	150'	333	22
		3.2	L†	SKYLINE Rd	20'	80'	177	11
		5.6		END	20'	42'	93	6
TOTAL							789**	51**

** QUANTITIES INCLUDED IN ROADWAY QUANTITIES TABLE

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	PM	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC PAVEMENT MARKING		REMOVE THERMOPLASTICE PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC (HAZARDOUS WASTE)		REMOVE PAVEMENT MARKER (N)
					4" SOLID	8" SOLID	4" (BROKEN 36-12)	4" (BROKEN 12-3)	TYPE H	TYPE D	TYPE G						
				LF	LF	LF	LF	LF	EA	EA	EA	DESCRIPTION	SQFT	SQFT	DESCRIPTION	SQFT	EA
1	58	15.4 TO 21.7	6				9607			201		3-STOP MARKING	66	66			2038
			19		7388		7388		308	154		LIMIT LINE	56	56			
			22		32,840					1370		1-AHEAD	31	31			
			27B		66,528							2-TYPE V ARROW	66	66			
			38	200		100					5	SCHOOL	35		SCHOOL	35	
2	269	0.0 TO 1.1	6				4328			130		LIMIT LINE	1192	481			2217
			12				1583				34	3-TYPE VI ARROW	126	126			
			19		5224		5224		218	109		3-TYPE IV ARROW (L)		45			
			21		700							29-TYPE III ARROW (L)	1386	1218			
			22		22,390					887		2-SIGNAL	64	64			
		1.7 TO 5.6	27B		46,086							3-AHEAD	93	93			
			27C					795				2-SLOW	46		2-SLOW	46	
			29		1728					38		2-SCHOOL	70		2-SCHOOL	70	
			32		6832					356		2-XING	42		2-XING	42	
			38	1076		538					30	22-STOP	484	66			
			38A			300						CROSS WALK	380	200	CROSS WALK	180	
SUBTOTAL				1276	189,716	938	28,130	795	526	3245	69		4137	2512		373	4255
TOTAL				1276	189,716	938	28,130	795	3840				4137	2512		373	

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

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
LEE XIONG | KAMALDEEP KAUR
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | FRANK GONZALEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 01-17-13 | DATE PLOTTED => 07-FEB-2013 TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	7	11

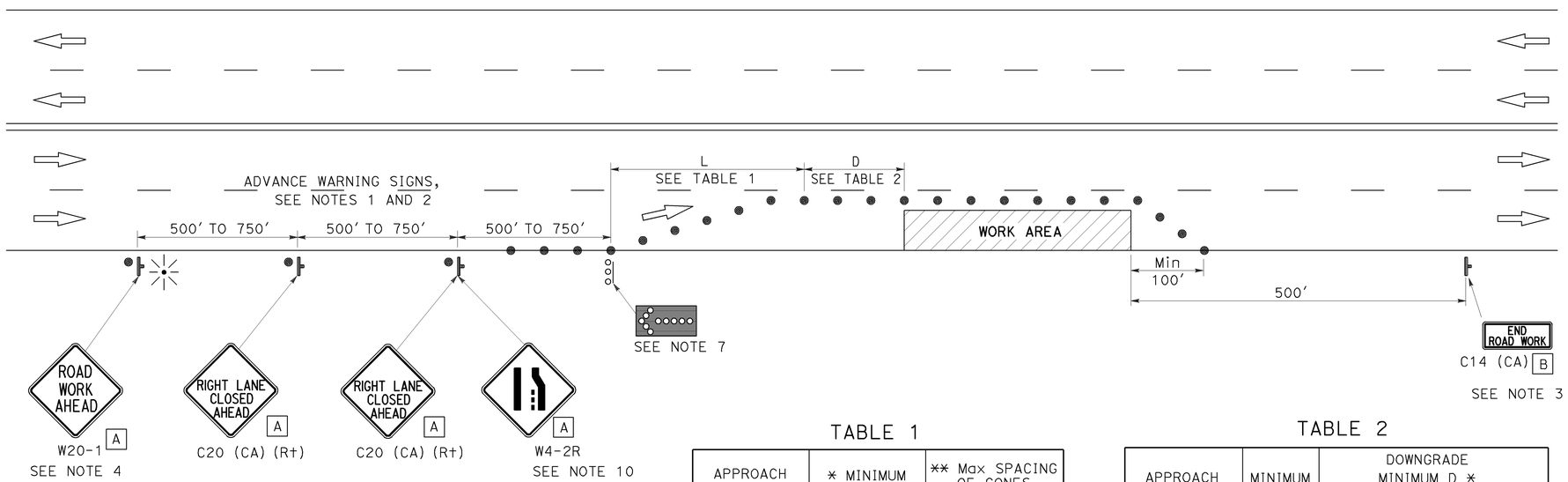
REGISTERED CIVIL ENGINEER 12-7-12 DATE

11-19-12
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.

TYPICAL LANE CLOSURE



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.

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A 36" x 36"

B 36" x 18"

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 8.

TABLE 2

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
OVER 50	SEE NOTE 9			

* 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 placed closer in urban areas.
2. Each advance warning sign 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 closure 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 C20 (CA) 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. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE 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, Kin	58, 269	15.4/21.7, 0.0/5.6	8	11

REGISTERED CIVIL ENGINEER 12-7-12 DATE

11-19-12
PLANS APPROVAL DATE

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

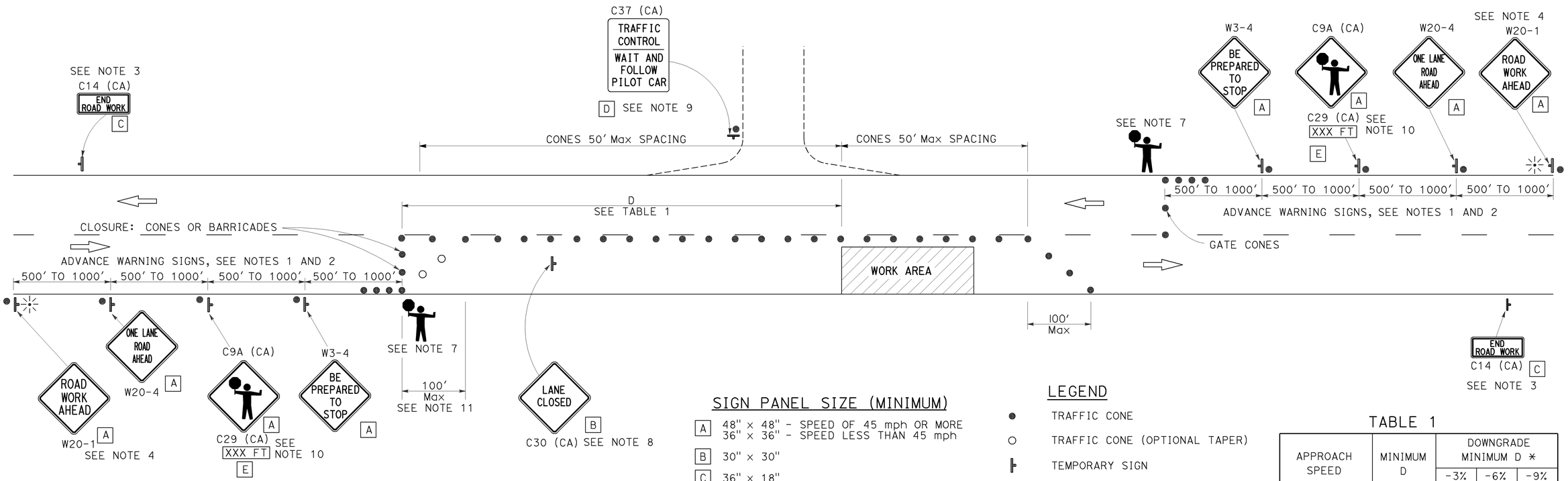
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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-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

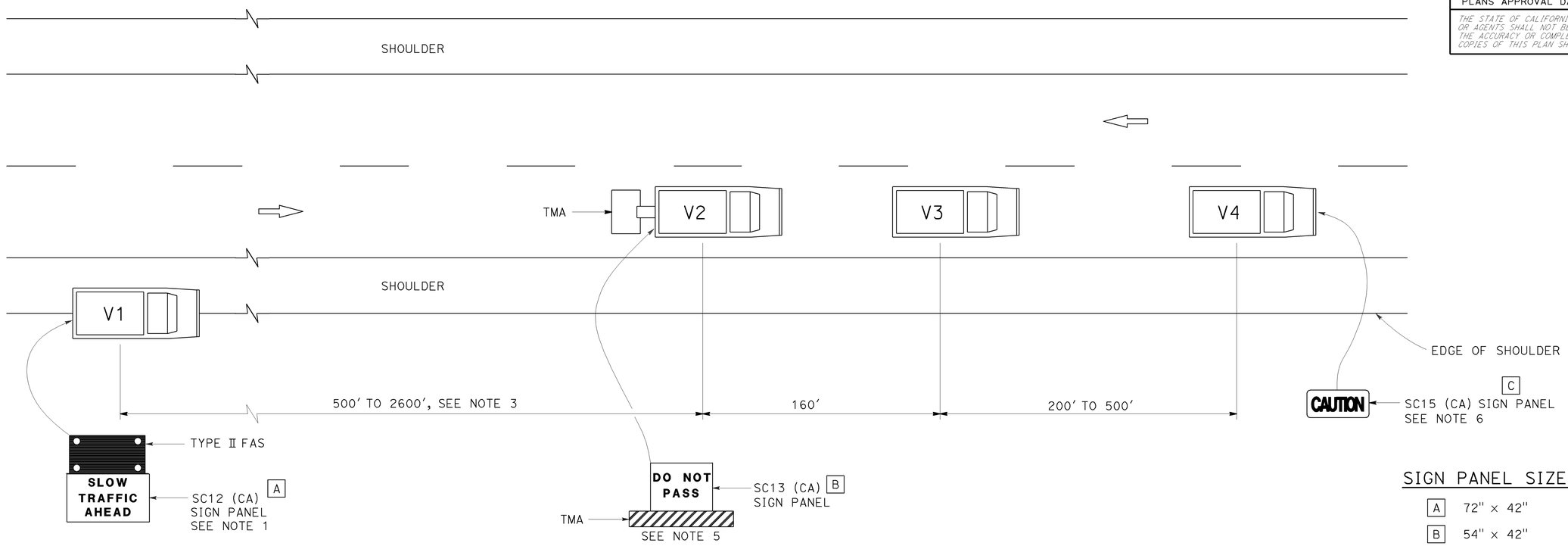
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	9	11

REGISTERED CIVIL ENGINEER 12-7-12 DATE

11-19-12
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-3

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, Kin	58, 269	15.4/21.7, 0.0/5.6	10	11

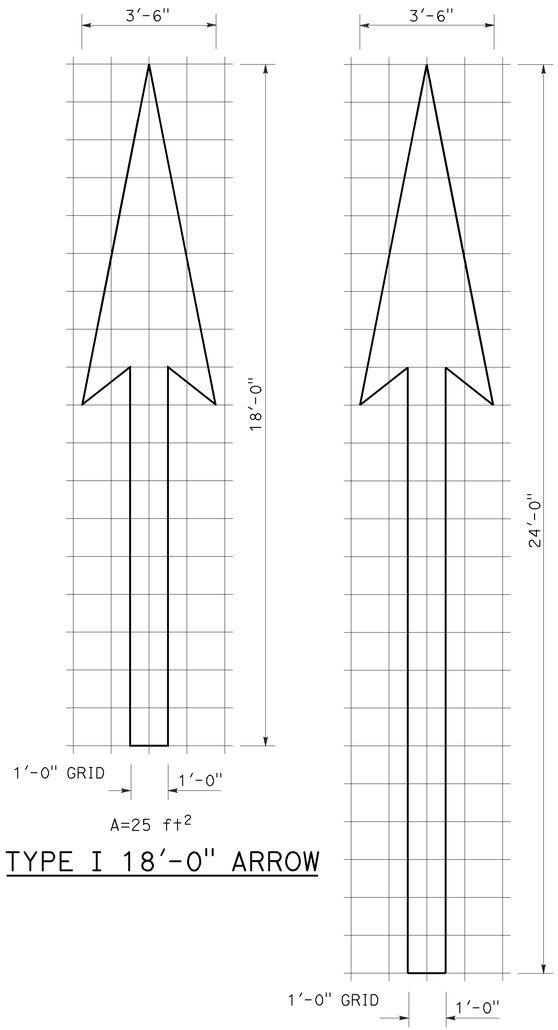
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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 11-19-12

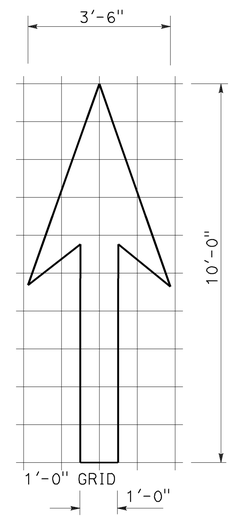


A=25 ft^2

TYPE I 18'-0" ARROW

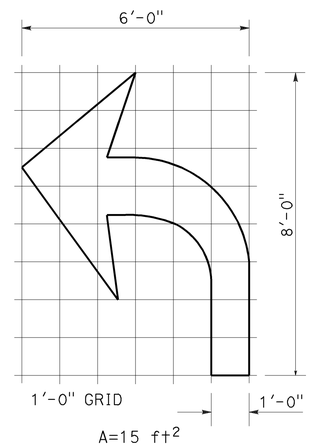
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

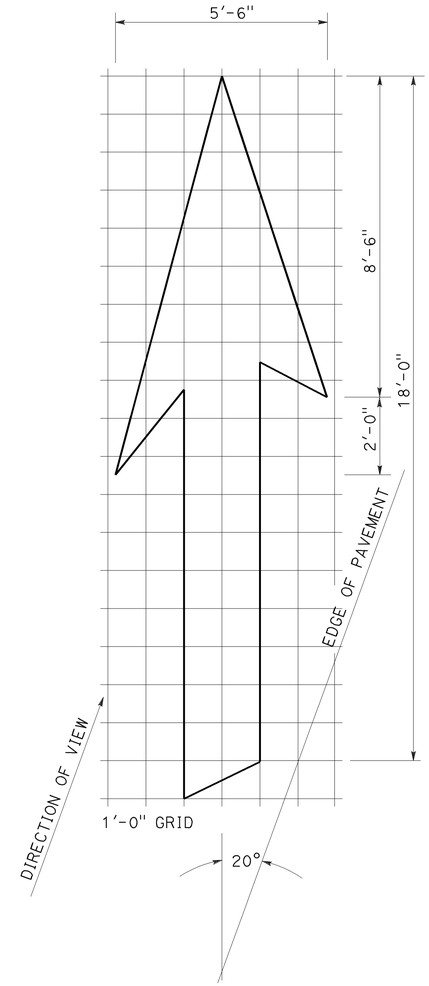
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

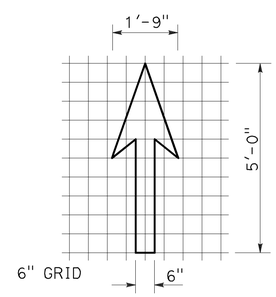
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

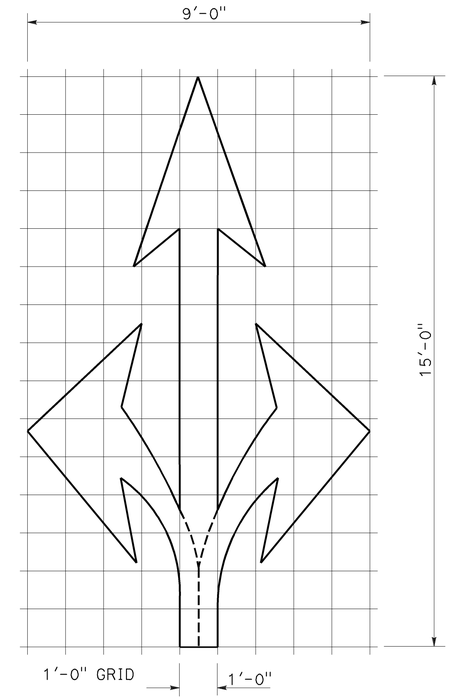
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



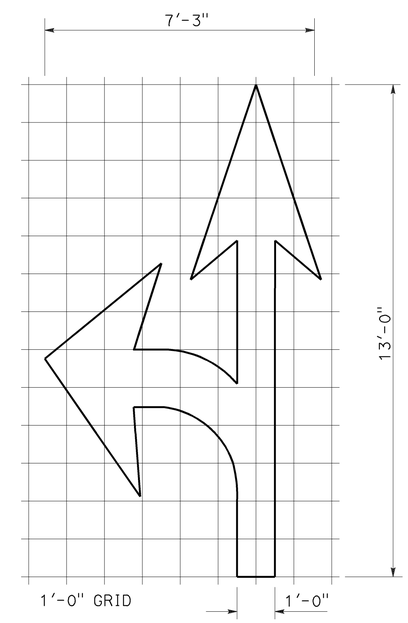
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

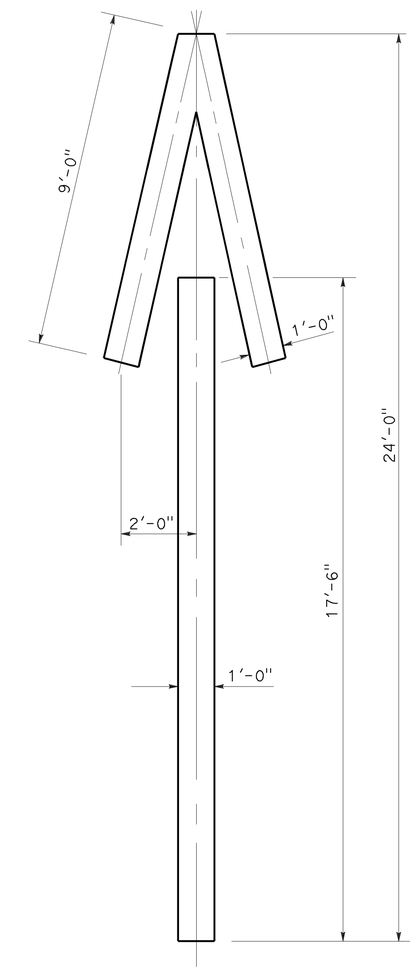
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

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 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker, Kin	58, 269	15.4/21.7, 0.0/5.6	11	11

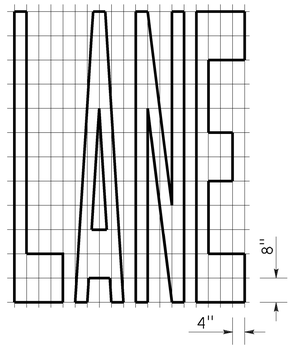
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

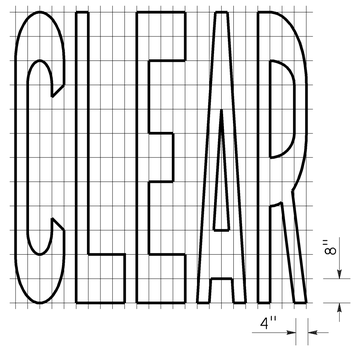
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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.

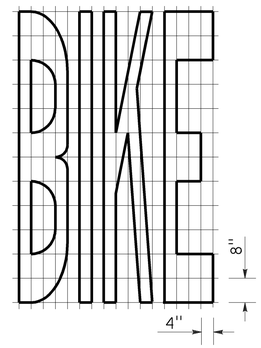
TO ACCOMPANY PLANS DATED 11-19-12



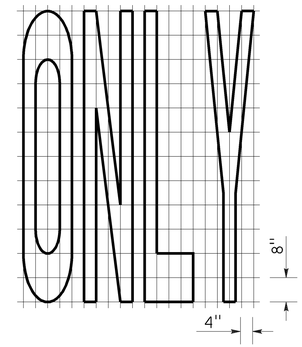
A=24 ft²



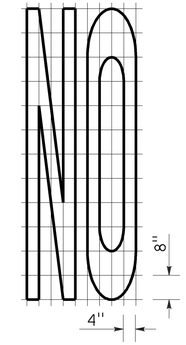
A=27 ft²



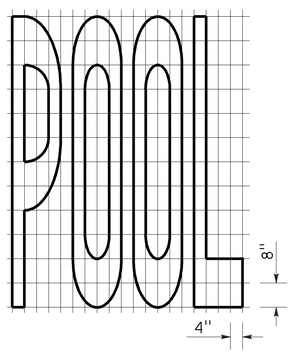
A=21 ft²



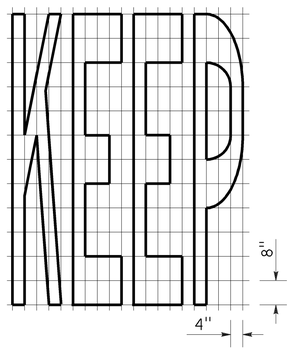
A=22 ft²



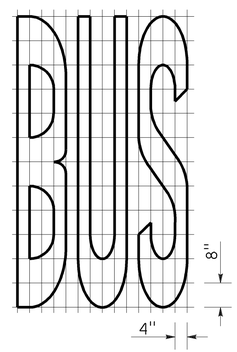
A=14 ft²



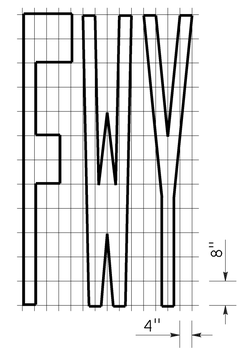
A=23 ft²



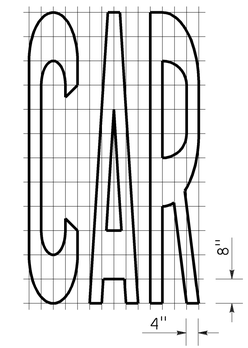
A=24 ft²



A=20 ft²

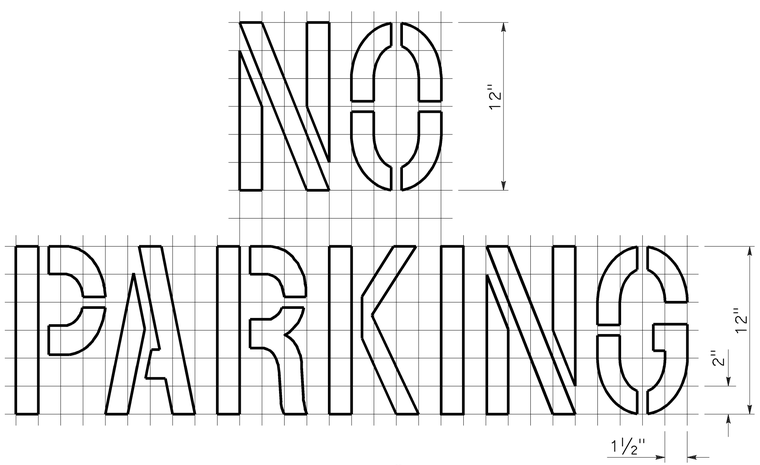


A=16 ft²

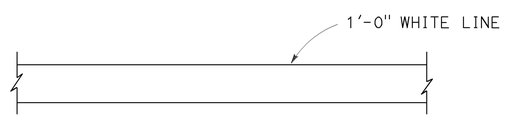


A=17 ft²

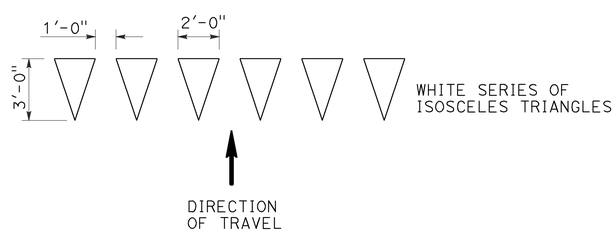
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



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