Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	1	18

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN GLENN COUNTY

IN AND NEAR ORLAND FROM 0.1 MILE WEST OF ROUTE 32/5 SEPARATION TO 0.3 MILE EAST OF PAPST AVENUE AND FROM 0.1 MILE WEST OF GLENN-COLUSA CANAL TO 0.4 MILE EAST OF JUNCTION ROUTE 45

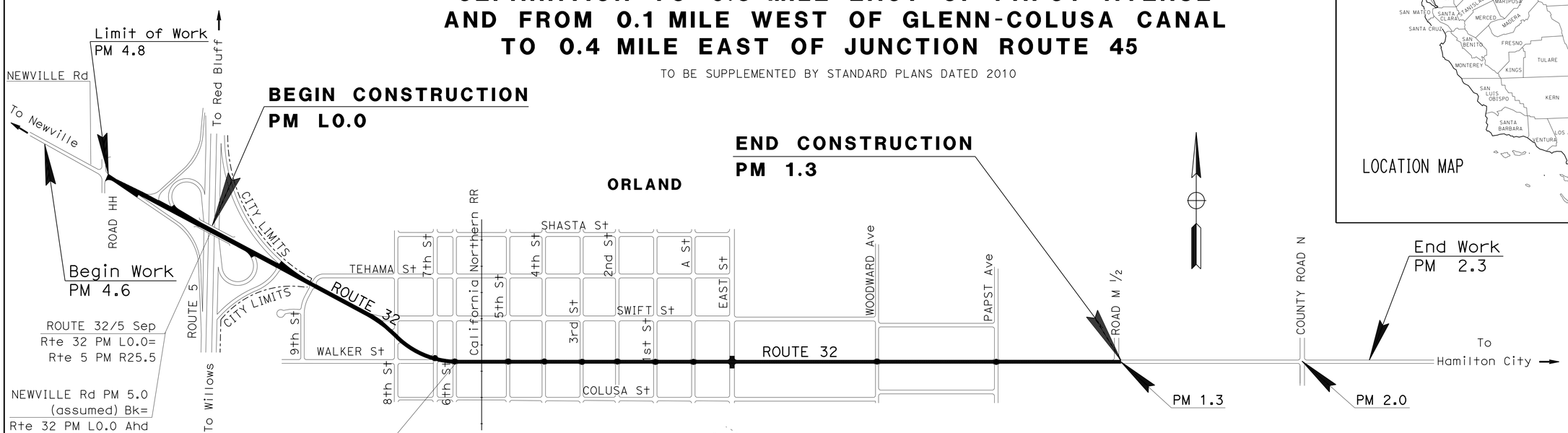
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

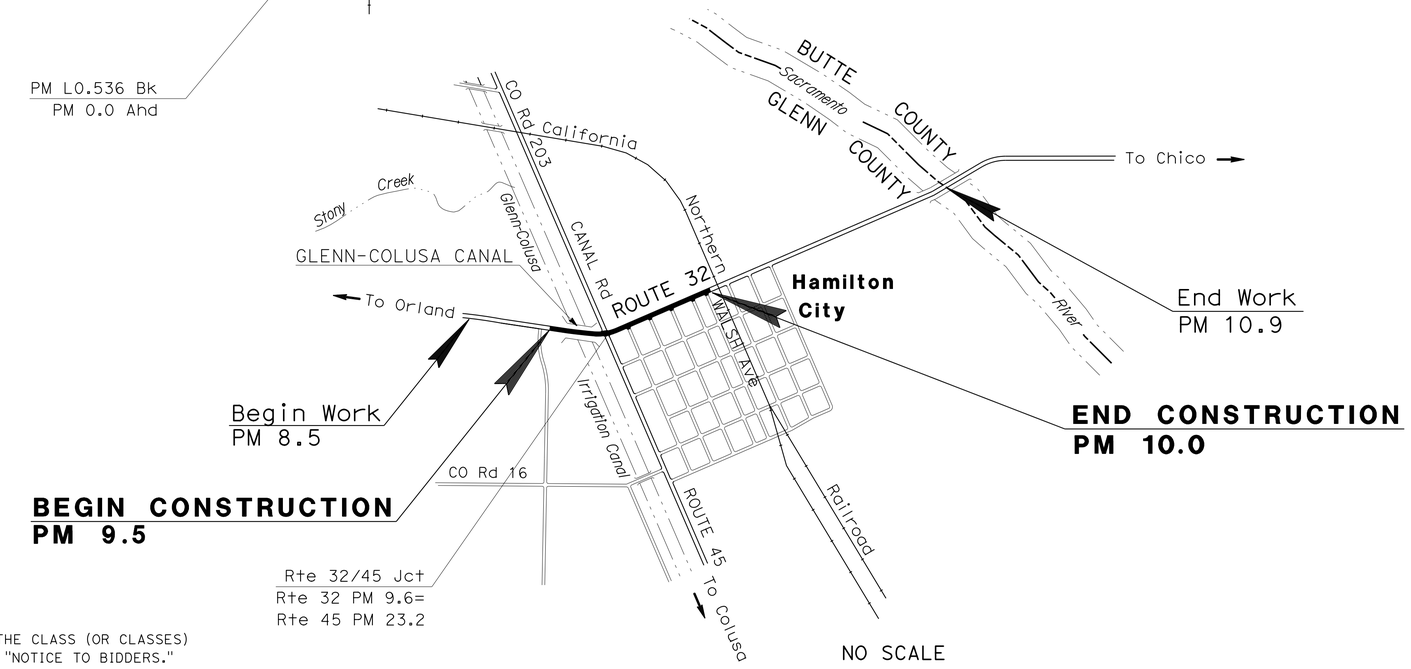
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-5	CONSTRUCTION DETAILS
6	CONSTRUCTION AREA SIGNS
7-9	PAVEMENT DELINEATION DETAILS AND QUANTITIES
10	SUMMARY OF QUANTITIES
11-14	TRAFFIC CONTROL SYSTEMS
15-18	REVISED 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."

PROJECT MANAGER RONALD S. SYKES

DESIGN ENGINEER RONALD S. SYKES

Ronald S. Sykes 12-17-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

December 17, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 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.

CONTRACT No.	03-4M5604
PROJECT ID	0312000111

LAST REVISION 00-00-00 DATE PLOTTED => 07-JAN-2013 TIME PLOTTED => 16:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	2	18

REGISTERED CIVIL ENGINEER 12-17-12 DATE

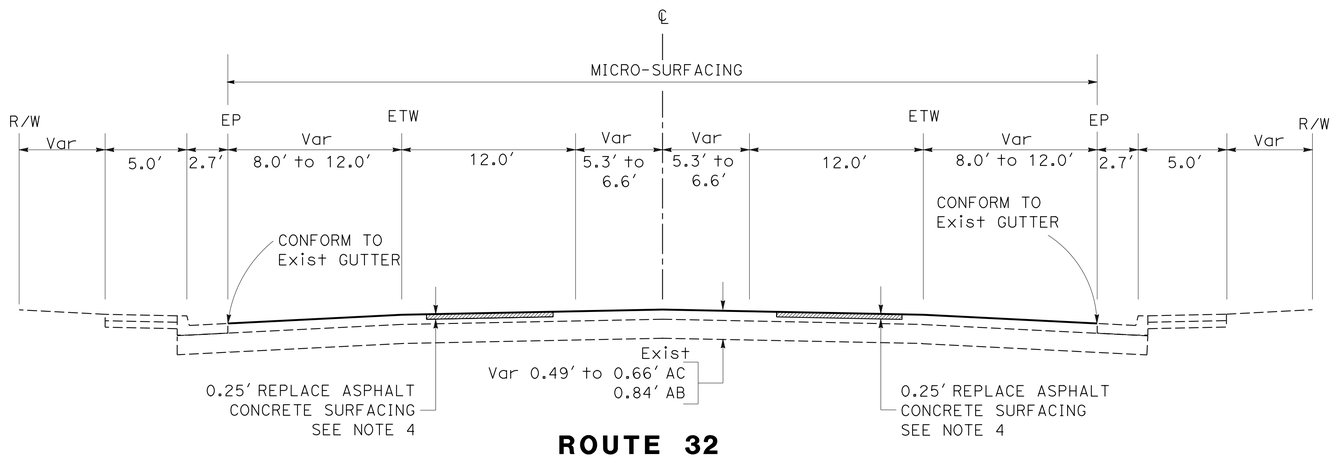
12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 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.

NOTES:

1. DO NOT APPLY MICRO-SURFACING TO BRIDGE DECKS.
2. REPLACE AC SURFACING IS BEFORE THE APPLICATION OF MICRO-SURFACING.
3. SEE SHEET C-4 FOR LIMITS OF REPLACE AC SURFACING AT NEWVILLE ROAD.
4. SEE SHEET Q-1 FOR LENGTH AND WIDTH OF REPLACE AC SURFACING.

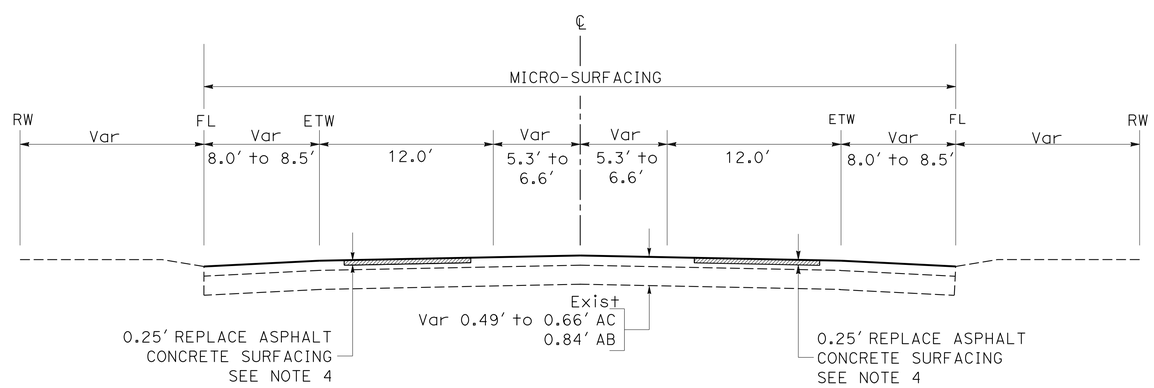


ROUTE 32

*PM L0.0 TO PM 0.8

* - PM 4.98 TO PM L0.02 IS THE ROUTE 32/5 SEPARATION BRIDGE

SEE NOTE 1



ROUTE 32

PM 0.8 TO PM 1.0

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 07-JAN-2013
TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	3	18

REGISTERED CIVIL ENGINEER 12-17-12 DATE

12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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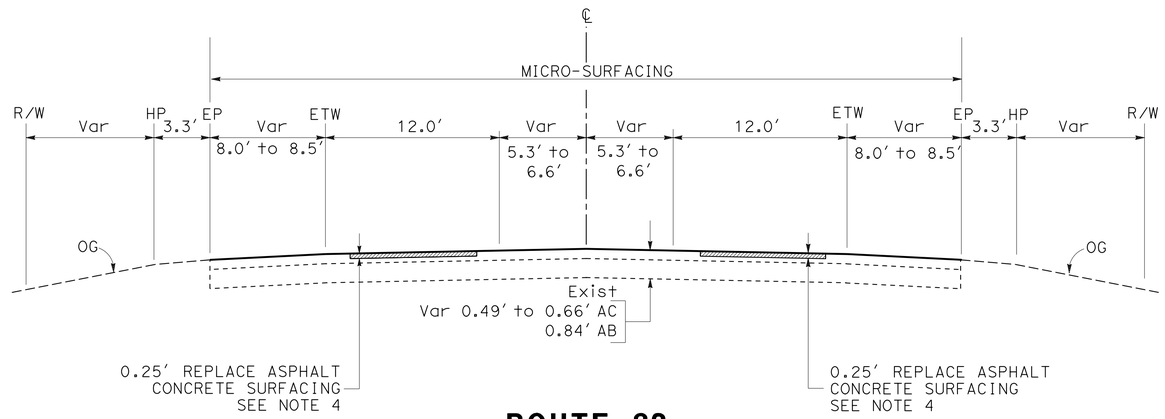
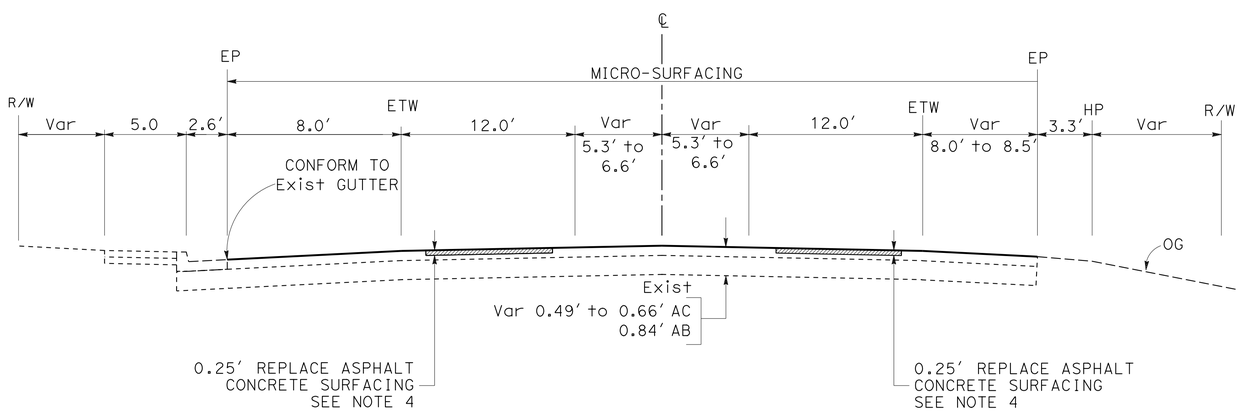
3. SEE SHEET C-4 FOR LIMITS OF REPLACE AC SURFACING AT NEWVILLE ROAD.
4. SEE SHEET Q-1 FOR LENGTH AND WIDTH OF REPLACE AC SURFACING.



ROUTE 32
PM 1.0 TO PM 1.2



ROUTE 32
PM 1.2 TO PM 1.3

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB

REVISED BY | DATE REVISED

LAST REVISION 12-13-12 | DATE PLOTTED => 07-JAN-2013 | TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	4	18

REGISTERED CIVIL ENGINEER 12-17-12 DATE

12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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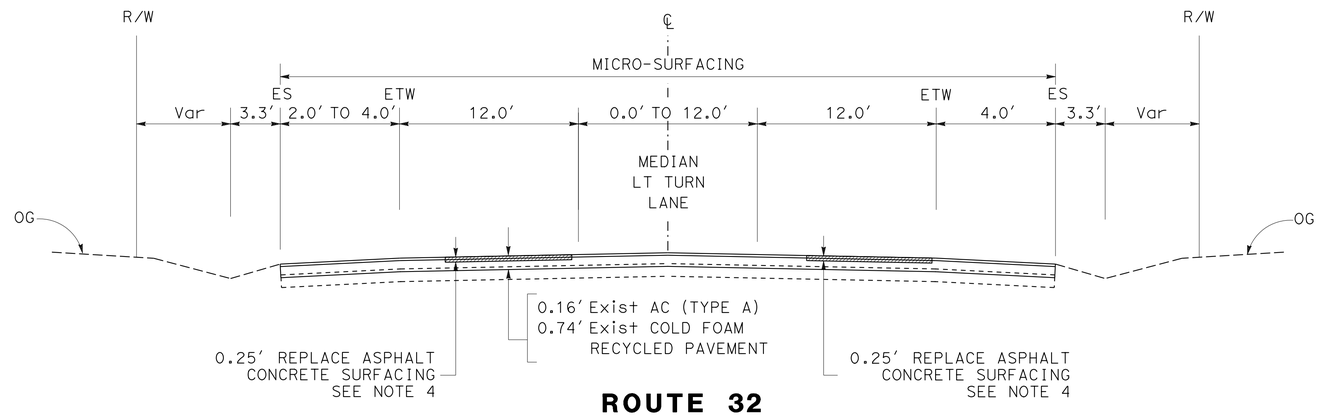
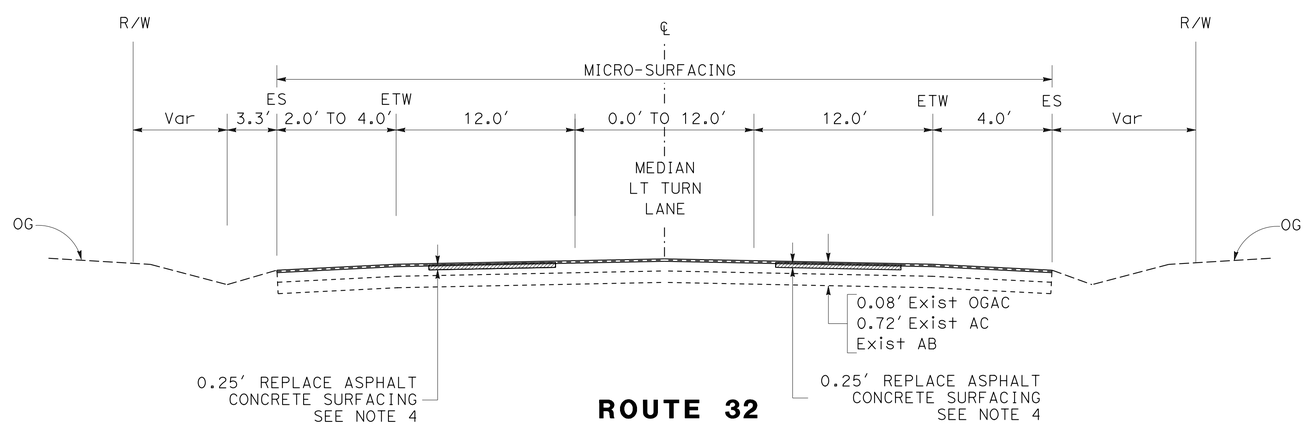
NOTES:

1. DO NOT APPLY MICRO-SURFACING TO BRIDGE DECKS.
2. REPLACE AC SURFACING IS BEFORE THE APPLICATION OF MICRO-SURFACING.
3. SEE SHEET C-4 FOR LIMITS OF REPLACE AC SURFACING AT NEWVILLE ROAD.
4. SEE SHEET Q-1 FOR LENGTH AND WIDTH OF REPLACE AC SURFACING.



ROUTE 32

PM 9.50 TO PM 9.56
PM 9.65 TO PM 10.00



ROUTE 32

PM 9.56 TO PM 9.57 *
PM 9.61 TO PM 9.65

* - PM 9.57 TO PM 9.61 IS THE GLENN-COLUSA CANAL BRIDGE

SEE NOTE 1

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 07-JAN-2013
TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	5	18

REGISTERED CIVIL ENGINEER 12-17-12 DATE

12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD S. SYKES
No. C35526
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.

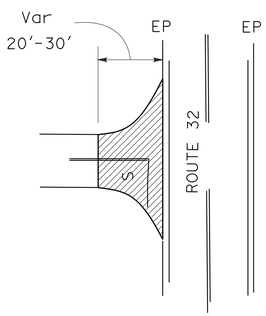
NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. * - SEE SHEET Q-1 FOR LENGTH AND WIDTH OF REPLACE ASPHALT CONCRETE SURFACING.
3. EXACT MICRO-SURFACING LIMITS AT COUNTY ROADS APPROACHES AND AT RAMP APPROACHES AND DEPARTURES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
4. REPLACE AC SURFACING IS BEFORE APPLICATION OF MICRO-SURFACING.
5. EXACT REPLACE AC SURFACING LIMITS AT COUNTY ROAD APPROACHES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LEGEND:

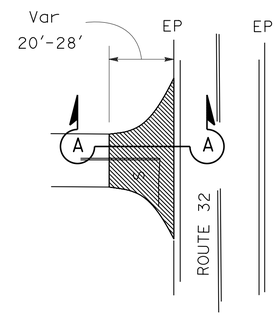
MICROSURFACING

REPLACE AC SURFACING



MICROSURFACING LIMITS (COUNTY ROADS)

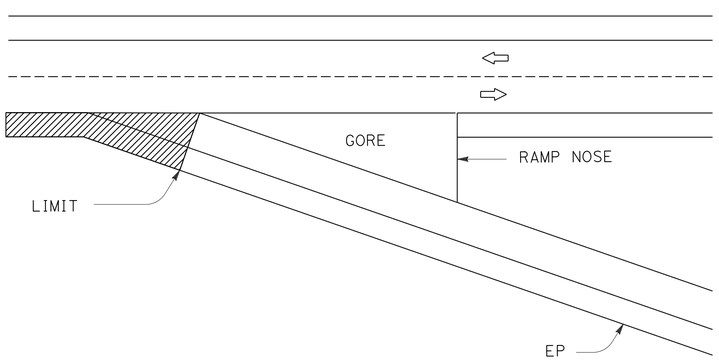
PM L0.0 TO PM 1.3
PM 9.5 TO PM 10.0
SEE NOTE 3



REPLACE AC SURFACING

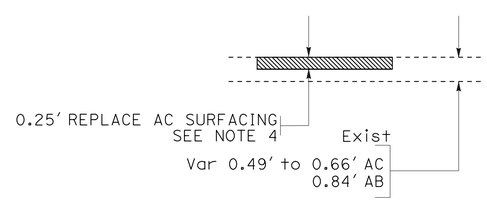
COUNTY ROAD TYPICAL - PLAN VIEW

CAPAY AVENUE
LOS ROBLES AVENUE
BROADWAY AVENUE
SEE NOTE 5



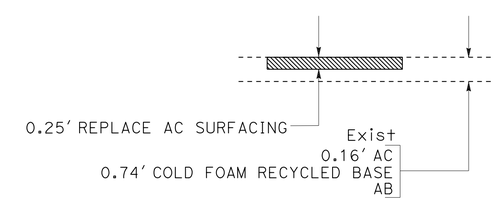
MICROSURFACING LIMITS (RAMPS)

ROAD HH (PM 4.8) TO PM L0.20
SEE NOTE 3



NEWVILLE Rd
REPLACE AC SURFACING*

TRAVELED WAY - SECTION VIEW
ROAD HH (PM 4.8) TO PM L0.0



COUNTY Rd
REPLACE AC SURFACING*

SECTION VIEW A-A

CAPAY AVENUE
LOS ROBLES AVENUE
BROADWAY AVENUE

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 07-JAN-2013
TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	6	18

Kris M. Albers 12-17-12
REGISTERED CIVIL ENGINEER DATE

12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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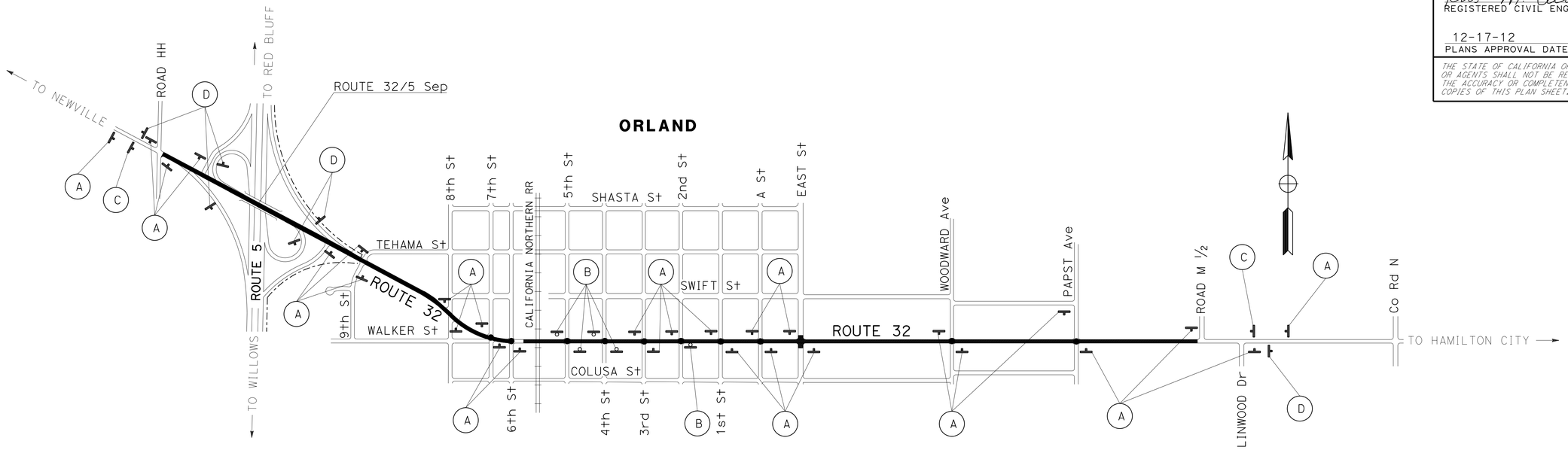

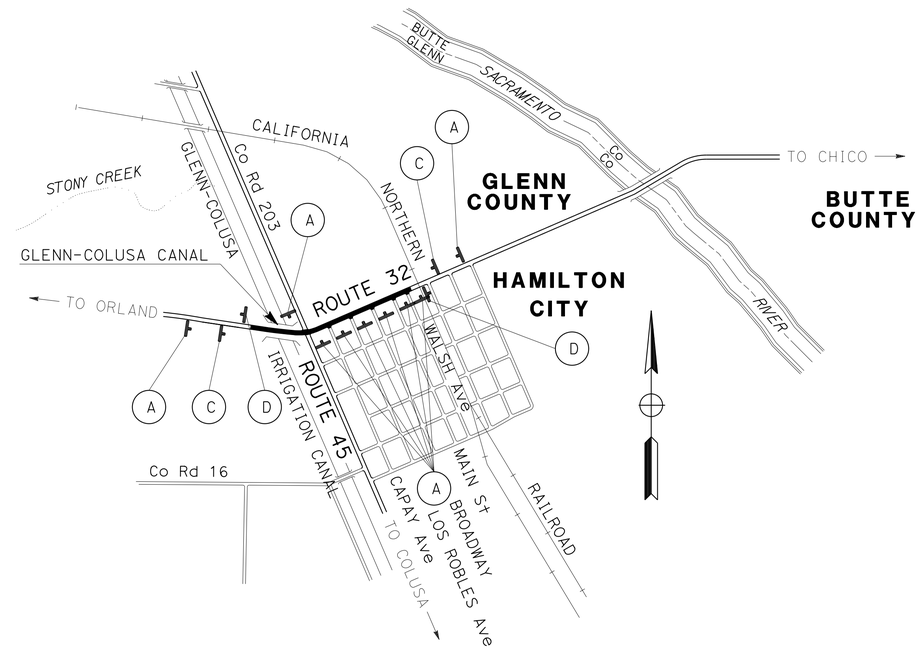

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	37
B	W20-1	C23	48" x 48"	ROAD WORK AHEAD	SSBM	5
C		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	4
D	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	8

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. SOME CONSTRUCTION AREA SIGN LOCATIONS MAY REQUIRE SSBM INSTALLATION.

CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY: KRIS ALBERS
CHECKED BY: CHUCK COOK
REVISED BY
DATE REVISED

LAST REVISION 12-12-12 | DATE PLOTTED => 07-JAN-2013 | TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	7	18

Kris M. Albers 12-17-12
REGISTERED CIVIL ENGINEER DATE

12-17-12
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KRIS M. ALBERS
No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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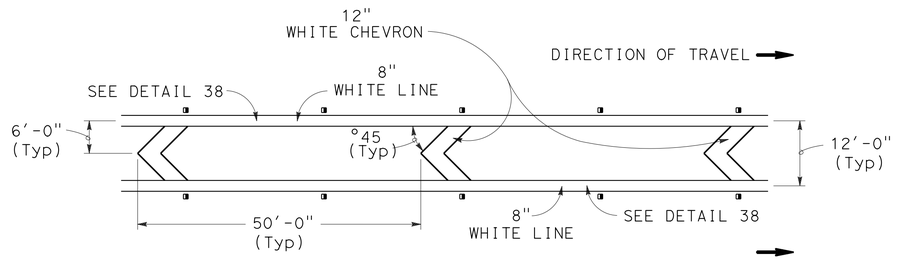
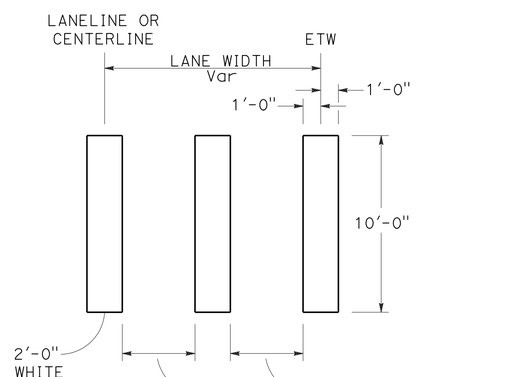


CHEVRON PLACEMENT (TYPICAL)

NO SCALE

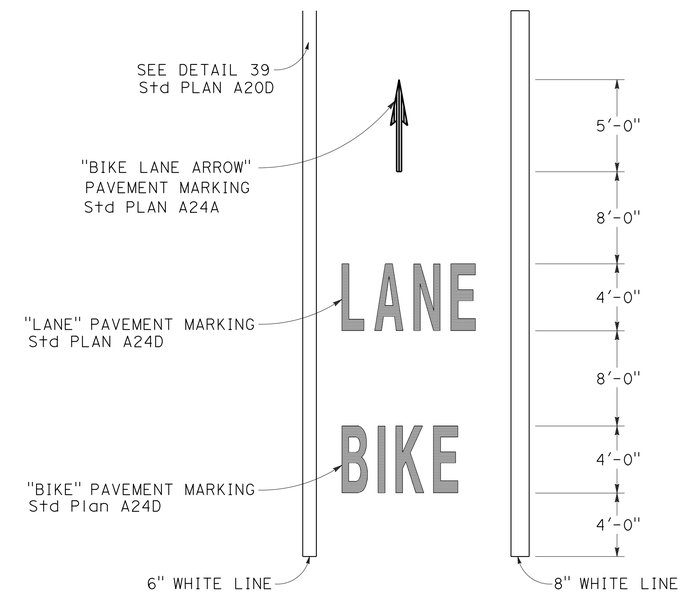


CONTINENTAL CROSSWALK DETAIL

(TYPICAL)

NOTES:

1. CROSSWALK MARKINGS SHALL BE INSTALLED PARALLEL TO THE ROADWAY CENTERLINE.
2. ALL STRIPING PATTERNS SHALL STOP 1'-0" FROM THE CROSSWALK (TYPICAL).



BIKE LANE PAVEMENT MARKING PACKAGE

NO SCALE

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY: CHUCK COOK
CHECKED BY: KRIS ALBERS
REVISED BY
DATE REVISED

LAST REVISION 12-12-12
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Kris M. Albers 12-17-12
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No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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THERMOPLASTIC TRAFFIC STRIPE

LOCATION	4" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	6" THERMOPLASTIC TRAFFIC STRIPE	8" THERMOPLASTIC TRAFFIC STRIPE		8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)
	DETAIL NUMBER			DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER		DETAIL NUMBER
	22	27B	32	32	27C	39	36	38	37B
	LF	LF	LF	LF	LF	LF	LF	LF	LF
ROAD HH(PM 4.8) - BB Rte5/32 Sep	1,710	1,725					234		
EB Rte5/32 Sep - 9th St	2,208	1,635					263	664	253
9th St - 8th St	572	1,552	1,050	1,050				174	269
8th St - 6th St	1,320							161	
6th St - 5th St	430	870	592	592				115	
5th St - 4th St	560	560						180	
4th St - 3rd St	564	560						180	
3rd St - 2nd St	406	560	168	168				110	
2nd St - 1st St	400	560	184	184				100	
1st St - A St	404	560	160	160				100	
A St - EAST St	400	644	190	190				100	
EAST St - WOODWARD Ave	500	2,180	2,400	2,400				105	
WOODWARD Ave - PAPST Ave	414	2,578	1,810	1,810				125	
PAPST Ave - ROAD MM1/2	630		2,010	2,010		77		150	
PM 9.5 - Co Rd 203/SR 45	346	267						125	
Co Rd 203/SR45 - CAPAY Ave	264	604	360	360				80	
CAPAY Ave - LOS ROBLES Ave	260	656	394	394				80	
LOS ROBLES Ave - BROADWAY	326	716	452	452				82	
BROADWAY - MAIN St	264	682	422	422				80	
MAIN ST - WALSH Ave	384	388						112	
WALSH Ave - PM 10.0	420	345						80	
CAPAY Ave		48			48				
LOS ROBLES Ave		70			70				
BROADWAY		103			103				
MAIN St		105			105				
WALSH Ave		74			74				
SUBTOTAL	12,782	18,042	10,192	10,192	400	77	497	2,903	522
TOTAL	41,016			10,192	400	77	3,400		522

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY: CHUCK COOK
CHECKED BY: KRIS ALBERS
REVISED BY
DATE REVISED

LAST REVISION 12-20-12
DATE PLOTTED => 07-JAN-2013
TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	9	18

Kris M. Albers 12-17-12
REGISTERED CIVIL ENGINEER DATE

12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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ROADSIDE SIGN QUANTITIES

SIGN CODE		REMOVE ROADSIDE SIGN
FEDERAL	CALIFORNIA	EA
W3-3	W41	1
TOTAL		1

NOTE:

SIGN LOCATED FACING WB TRAFFIC BETWEEN EAST Ave AND WOODWARD Ave IN ORLAND.

THERMOPLASTIC PAVEMENT MARKING

DESCRIPTION	NUMBER	SQFT
TYPE I (24') ARROW	1	124
TYPE II ARROW	5	225
TYPE III ARROW	37	1,722
"STOP"	21	462
"SIGNAL"	2	64
"AHEAD"	2	62
"SLOW"	6	138
"SCHOOL"	6	210
"XING"	6	126
"BIKE"	1	5
"LANE"	1	6
BIKE LANE ARROW	1	7
BIKE LOOP DETECTOR SYMBOL	1	2
RR CROSSING SYMBOL	3	210
RR TRANSVERSE LINES	6	144
RR LIMIT LINE	2	168
BASIC CROSSWALK (WHITE)	29	3,462
BASIC CROSSWALK (YELLOW)	8	998
CONTINENTAL CROSSWALK (WHITE)	6	1,080
CONTINENTAL CROSSWALK (YELLOW)	5	900
LIMIT LINE	11	331
CHEVRON	5	85
TOTAL		10,531

NOTE:

BASIC CROSSWALKS ARE TO BE 1'-0" WIDE, SEE Std PLAN RSP A24F.

PAVEMENT MARKER

DETAIL NUMBER	RETROREFLECTIVE	
	TYPE D	TYPE G
	EA	EA
22	536	
32	534	
36		22
37B		36
38		122
SUBTOTAL	1070	180
TOTAL	1250	

REMOVE THERMOPLASTIC TRAFFIC STRIPE (WATER BLASTING)

DESCRIPTION	LF
GORE TREATMENT	994
CHANNELIZING LINE	5586
LANE DROP AT INTERSECTION	216
TOTAL	6796

REMOVE THERMOPLASTIC PAVEMENT MARKING (WATER BLASTING)

DESCRIPTION	SQFT
TYPE I (24') ARROW	31
TYPE II ARROW	225
TYPE III ARROW	1,554
"STOP"	462
"SIGNAL"	96
"AHEAD"	93
"SLOW"	138
"SCHOOL"	210
"XING"	126
"BIKE"	5
"LANE"	6
BIKE LANE ARROW	7
BIKE LOOP DETECTOR SYMBOL	2
RR CROSSING SYMBOL	210
RR TRANSVERSE LINES	144
RR LIMIT LINE	148
BASIC CROSSWALK	5,069
CONTINENTAL CROSSWALK	1,296
LIMIT LINE	331
CHEVRON	85
TOTAL	10,238

PAVEMENT DELINEATION QUANTITIES

PDQ-2

REVISED BY | DATE REVISED
CHUCK COOK | KRIS ALBERS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ARSHAD IQBAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 12-20-12 | DATE PLOTTED => 07-JAN-2013 | TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	10	18

REGISTERED CIVIL ENGINEER 12-17-12 DATE

12-17-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 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.

REPLACE ASPHALT CONCRETE SURFACING

LOCATION/ DESCRIPTION						LENGTH	WIDTH	REPLACE ASPHALT CONCRETE SURFACING
	DIRECTION	PM FROM	PM TO	WHEEL PATH	DESCRIPTION	LF		CY
ORLAND	EB	ROAD HH(PM 4.8)	BB 11-0077	L+/R+		940	12	105
	EB	ROAD HH(PM 4.8)	BB 11-0077		Shld	940	8	70
	EB	L0.05	R0.11	L+/R+		35	12	3.9
	EB	R0.18	R0.25	L+/R+		46	12	5.1
	EB	R0.18	R0.25	R+		126	6	7.0
	EB	R0.25	R0.33	L+		58	6	3.2
	EB	R0.25	R0.33	R+		333	6	18.5
	EB	R0.40	R0.46	L+/R+		150	12	16.7
	EB	R0.40	R0.46	R+		58	6	3.2
	EB	R0.46	0.55	L+		87	6	4.8
	EB	0.55	0.82	L+		363	6	20.1
	EB	0.55	0.82	L+/R+		69	12	7.7
	WB	ROAD HH(PM 4.8)	BB 11-0077	L+/R+		940	12	105
	WB	ROAD HH(PM 4.8)	BB 11-0077		Shld	940	8	70
	WB	L0.02	L0.10	R+		150	6	8.3
	WB	L0.00	L0.05	R+		58	6	3.2
	WB	L0.05	R0.11	L+/R+		92	12	10.2
	WB	R0.18	R0.25	L+/R+		155	12	17.2
	WB	R0.25	R0.33	L+		35	6	2.0
	WB	R0.33	R0.40	L+/R+		121	12	13.4
	WB	R0.33	R0.40	R+		97	6	5.4
	WB	R0.40	R0.46	R+		134	6	7.4
	WB	0.55	0.82	L+		250	6	13.9
	WB	0.55	0.82	R+		92	6	5.1
HAMILTON CITY	EB	9.68	9.72	L+		270	6	15
	EB	9.68	9.72		CAPAY Ave	69	20	12.8
	EB	9.73	9.76	L+		167	6	9.3
	EB	9.76	9.78	L+		115	6	6.4
	EB	9.76	9.78		LOS ROBLES Ave	72	28	18.7
	EB	9.80	9.85	L+/R+		300	12	33.4
	EB	9.80	9.85		BROADWAY	74	20	13.7
	EB	9.85	9.91	L+		196	6	10.9
	WB	9.68	9.71	L+		173	6	9.6
	WB	9.73	9.77	L+		250	6	13.9
TOTAL								670

MAINTAIN EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION

LOCATION	DESCRIPTION
PM 9.63	155' EAST OF 32/45 JCT

MICRO-SURFACING

LOCATION/ DESCRIPTION	MICRO-SURFACING TON
COUNTY ROAD HH TO COUNTY ROAD M½	1,093
PM 9.50 TO PM 10.0	242
TOTAL	1,335

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: ROBERT M. FLOYD II
CHECKED BY: DAVID S. LAMB
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 07-JAN-2013
TIME PLOTTED => 16:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	11	18

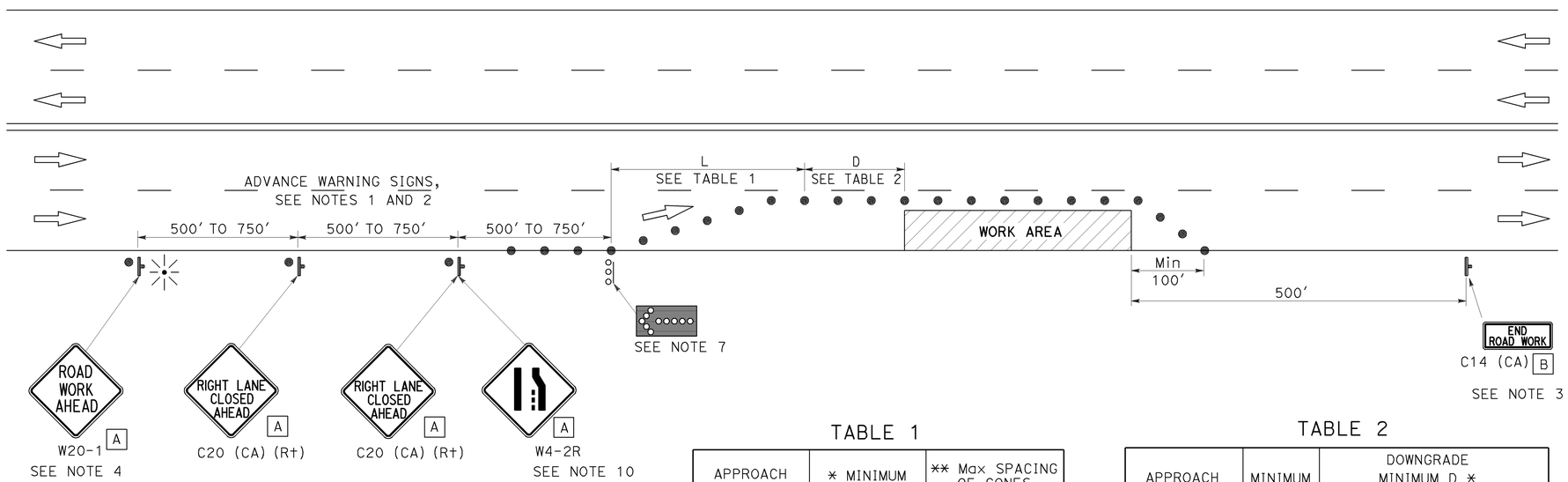
REGISTERED CIVIL ENGINEER 12-7-12 DATE

12-17-12
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
03	Gle	32	L0.0/1.3, 9.5/10.0	12	18

REGISTERED CIVIL ENGINEER 12-7-12 DATE

12-17-12
PLANS APPROVAL DATE

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

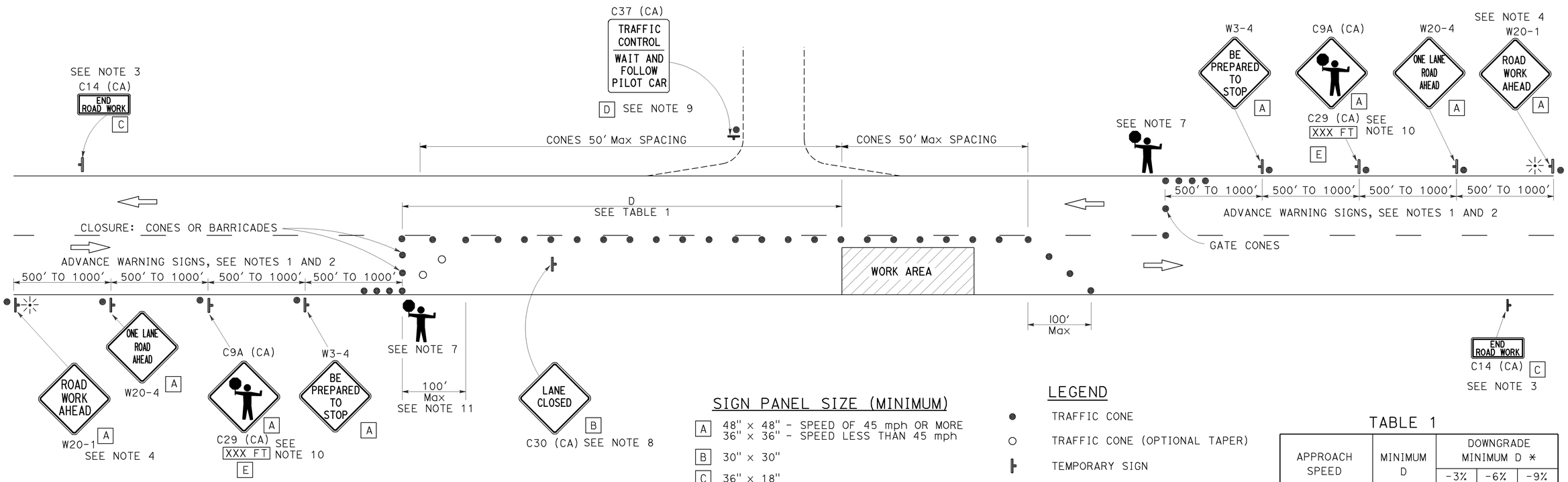
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

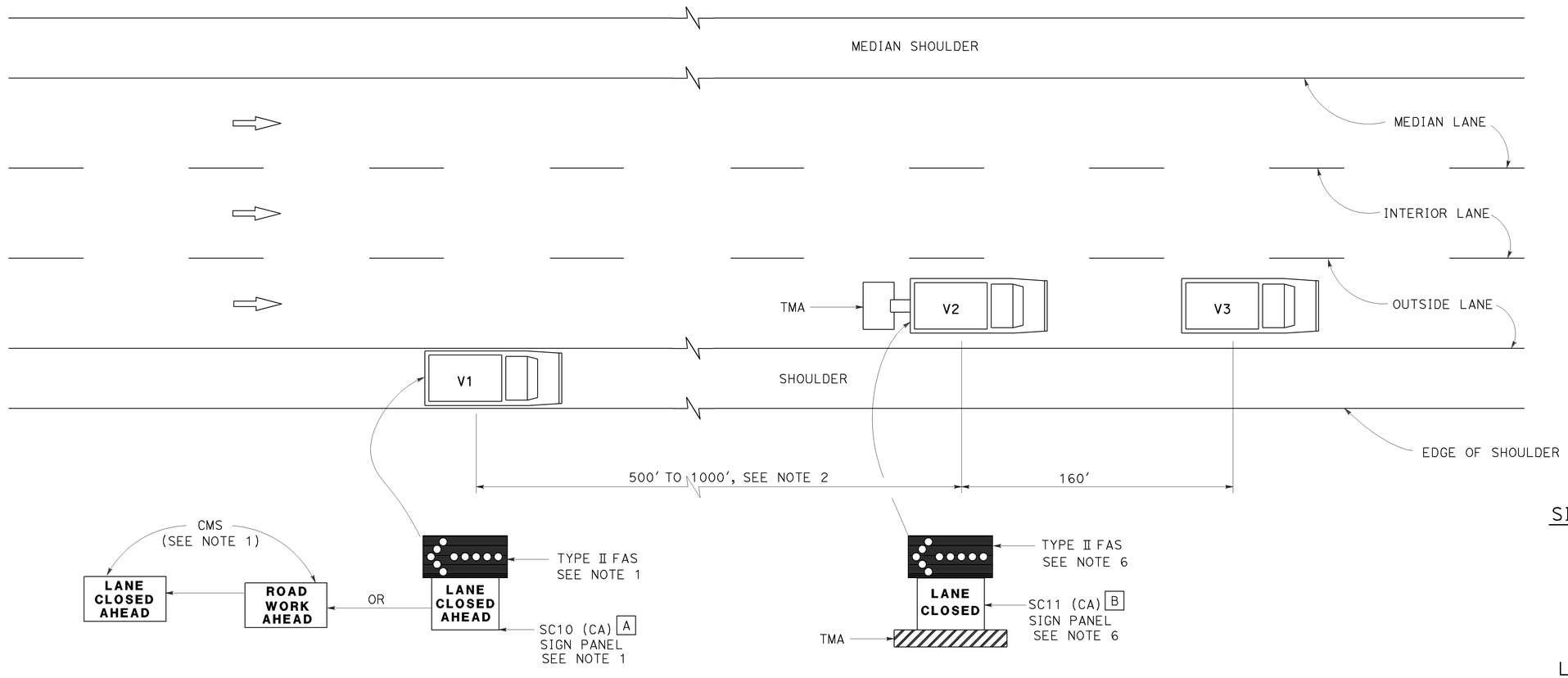
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	13	18

REGISTERED CIVIL ENGINEER 12-7-12 DATE

12-17-12
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 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

1. Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right.

2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.

3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.

4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.

5. 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.

6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.

7. 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.

9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.

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 MULTILANE HIGHWAYS (OUTSIDE AND MEDIAN LANES)

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

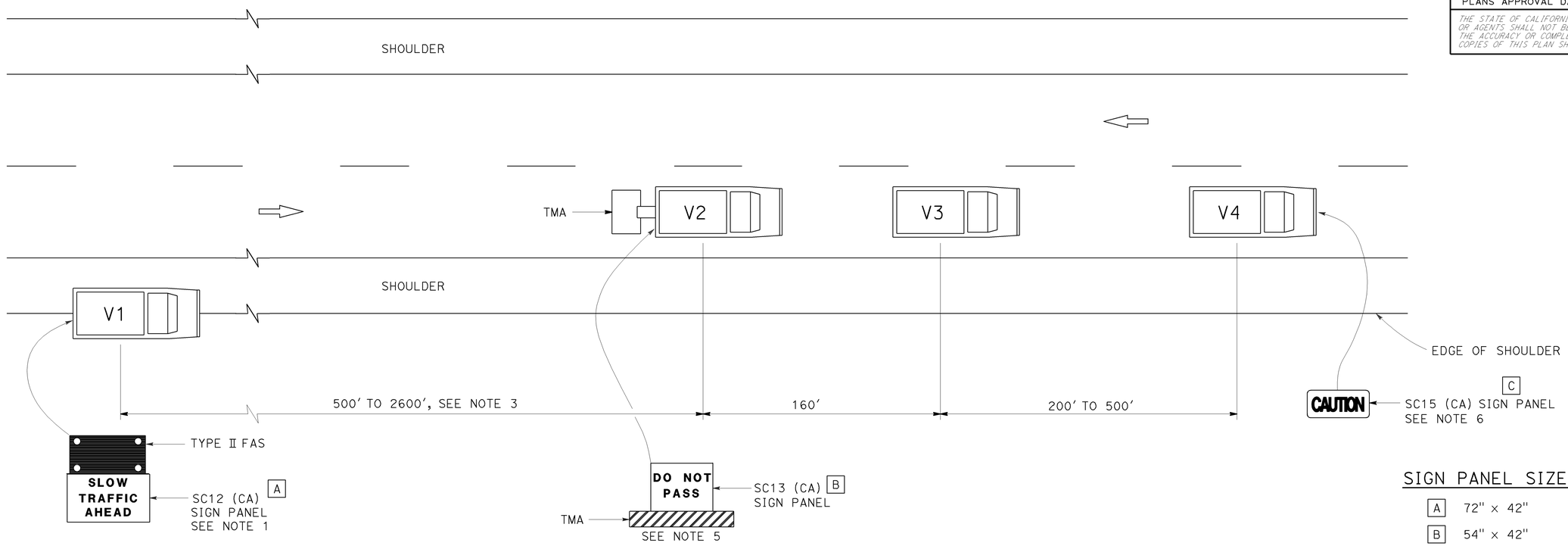
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	14	18

REGISTERED CIVIL ENGINEER 12-7-12 DATE

12-17-12
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" × 42"
B	54" × 42"
C	54" × 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-4

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
03	Gle	32	L0.0/1.3, 9.5/10.0	15	18

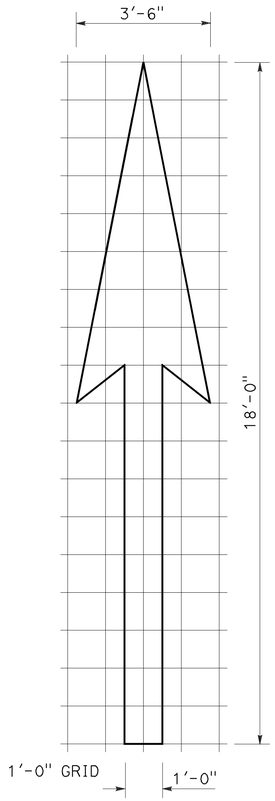
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

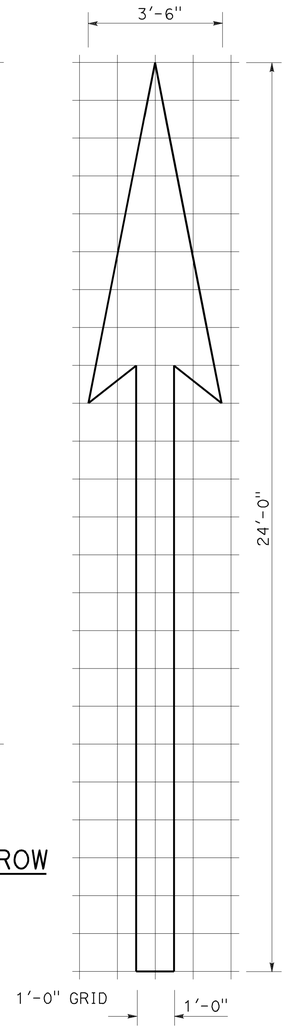
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 12-17-12



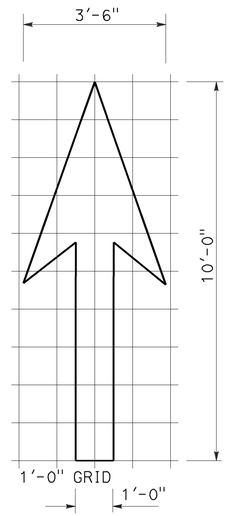
A=25 ft^2

TYPE I 18'-0" ARROW



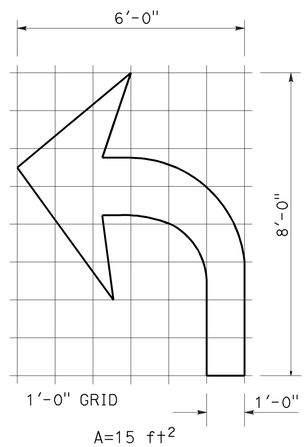
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

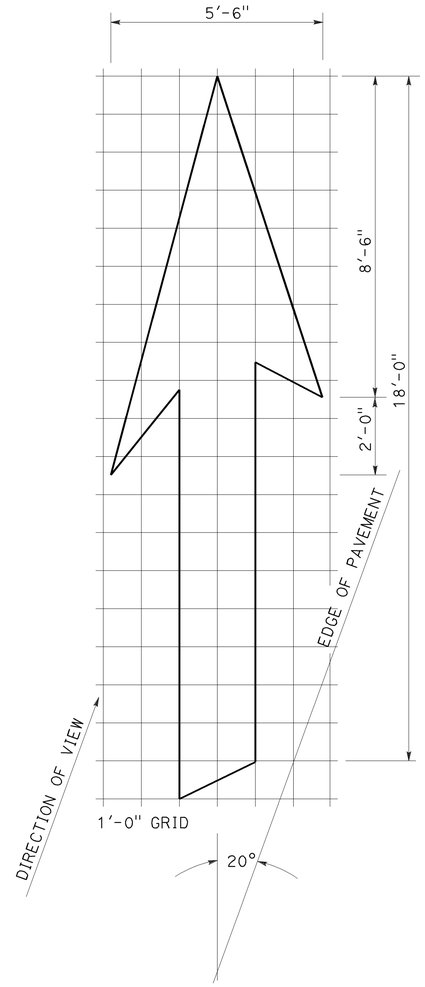
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

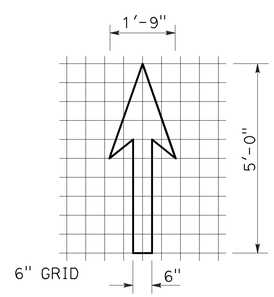
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

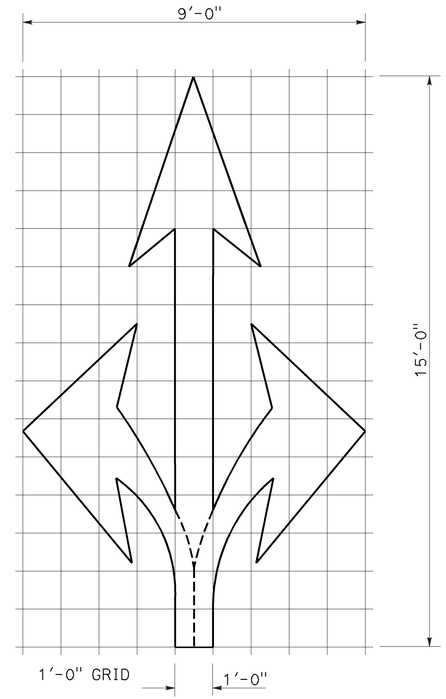
TYPE VI ARROW

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



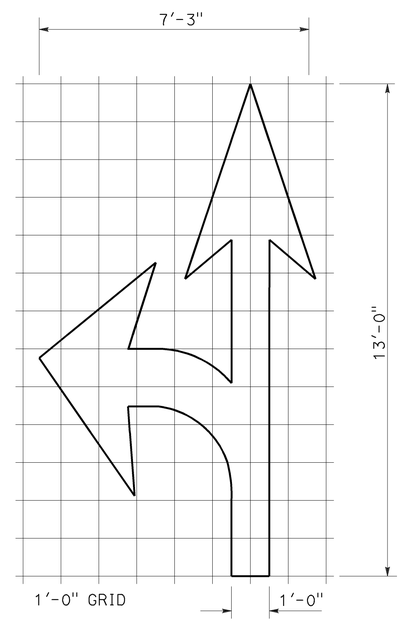
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

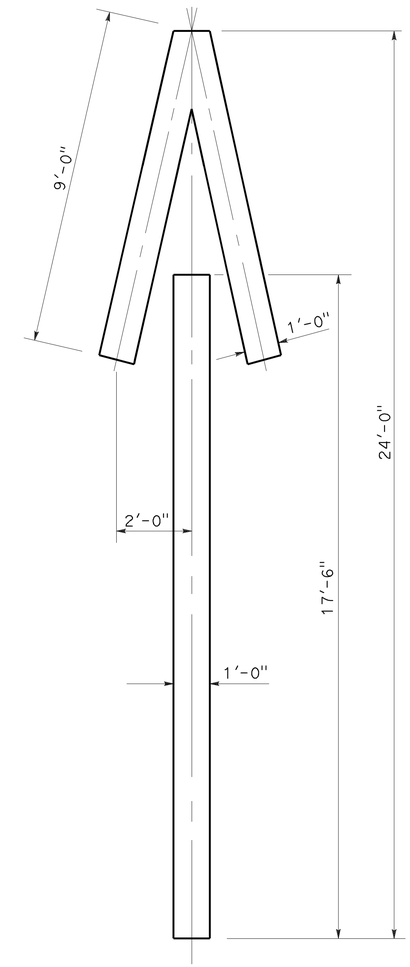
TYPE VIII ARROW



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
03	Gle	32	L0.0/1.3, 9.5/10.0	16	18

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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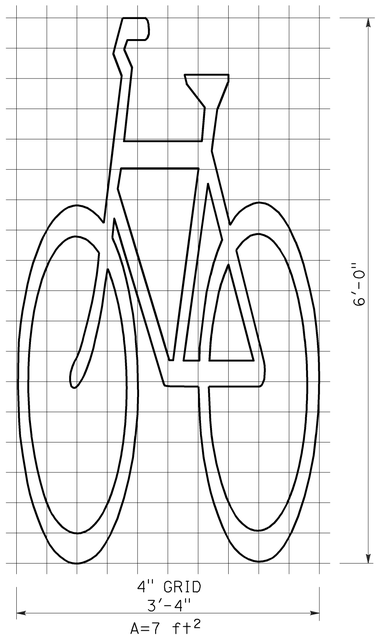
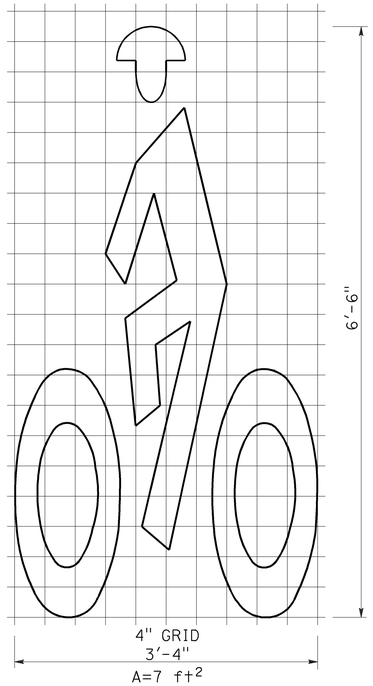
NOTE: TO ACCOMPANY PLANS DATED 12-17-12

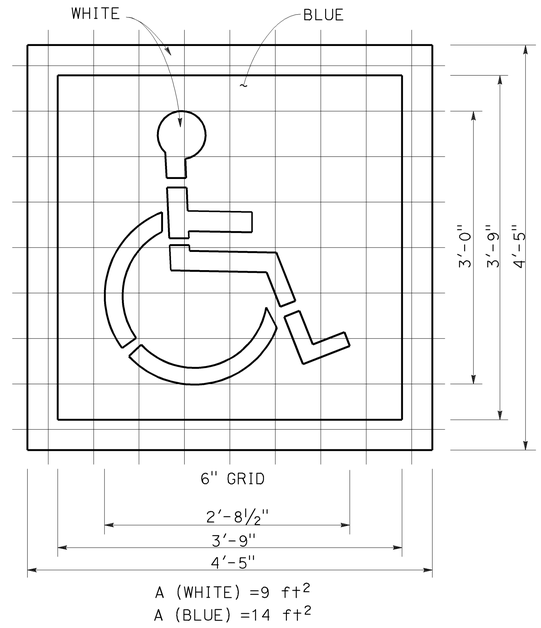
Minor variations in dimensions may be accepted by the Engineer.



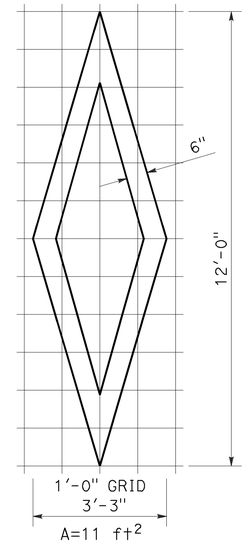
BIKE LANE SYMBOL WITHOUT PERSON



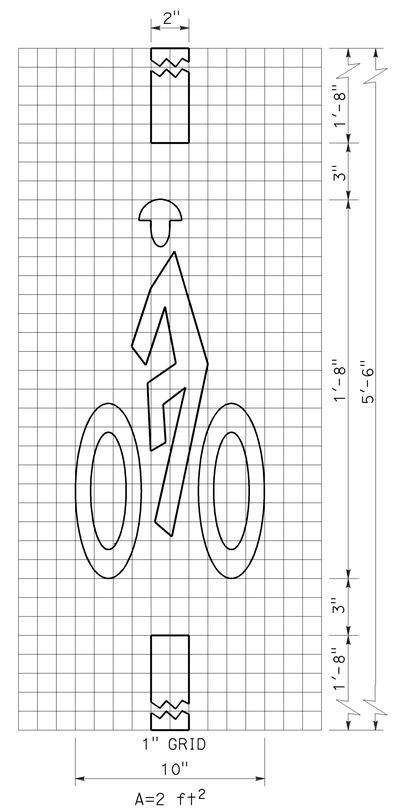
BIKE LANE SYMBOL WITH PERSON



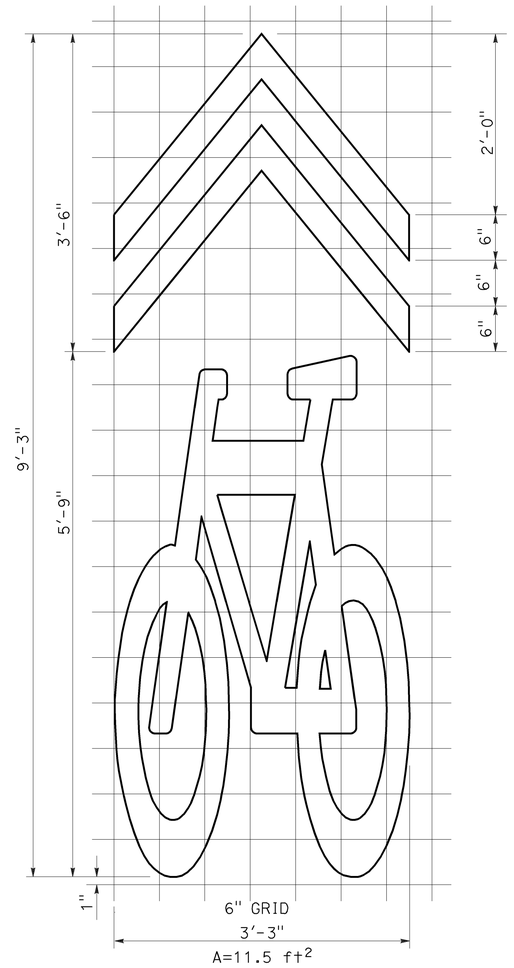
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



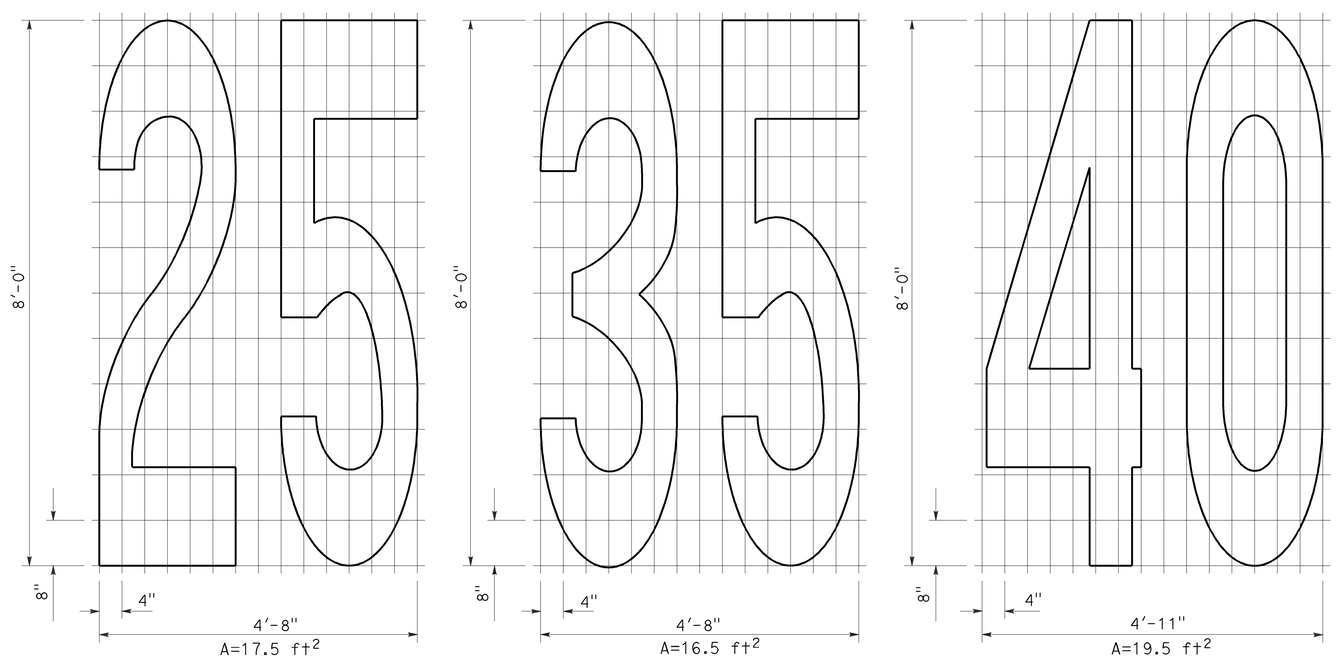
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	17	18

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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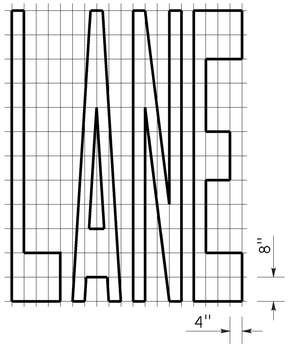
TO ACCOMPANY PLANS DATED 12-17-12



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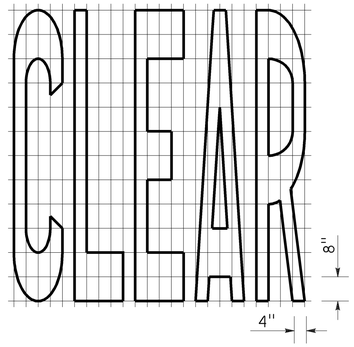

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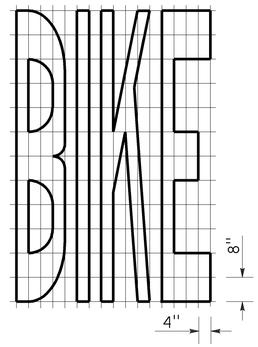

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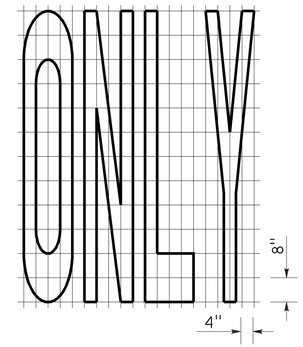

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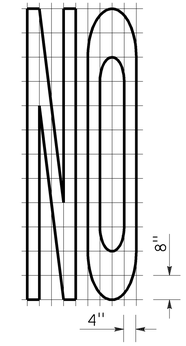

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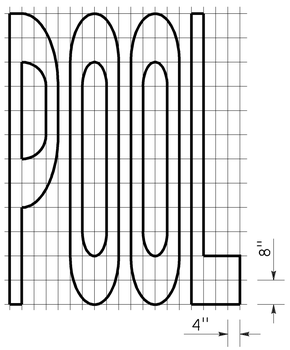

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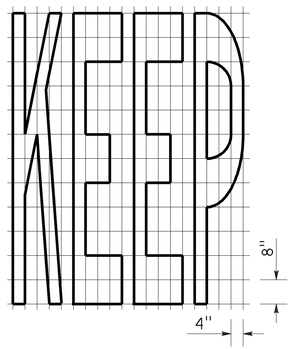

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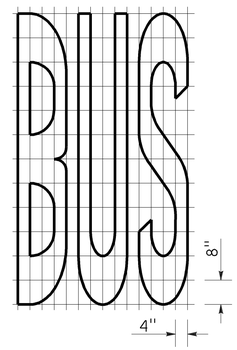
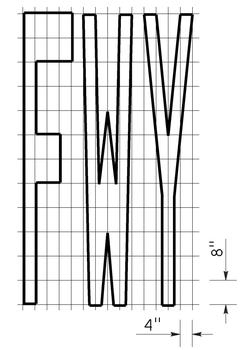
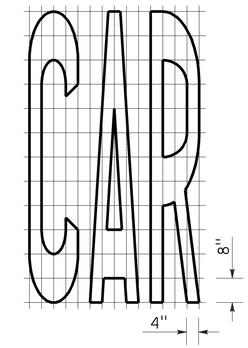


A=20 ft^2

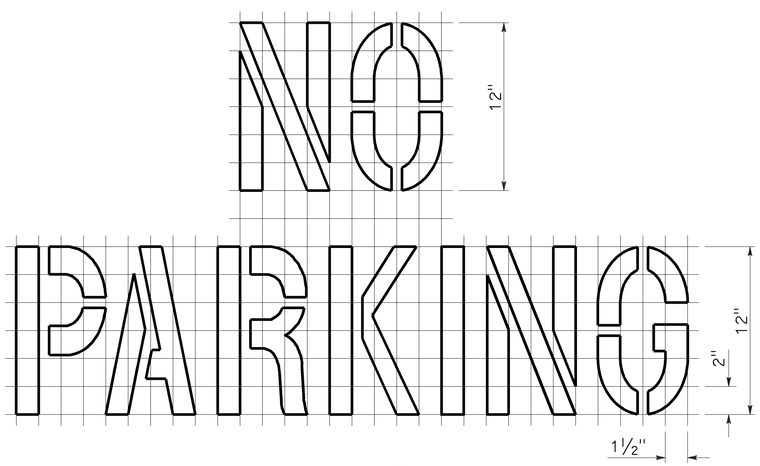


A=16 ft^2

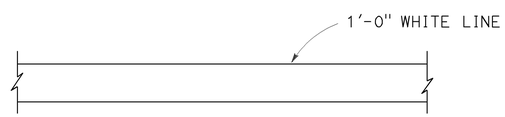


A=17 ft^2

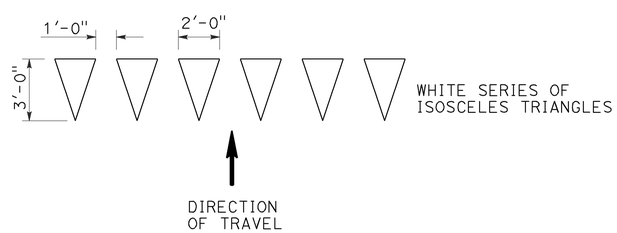
WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft^2
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	L0.0/1.3, 9.5/10.0	18	18

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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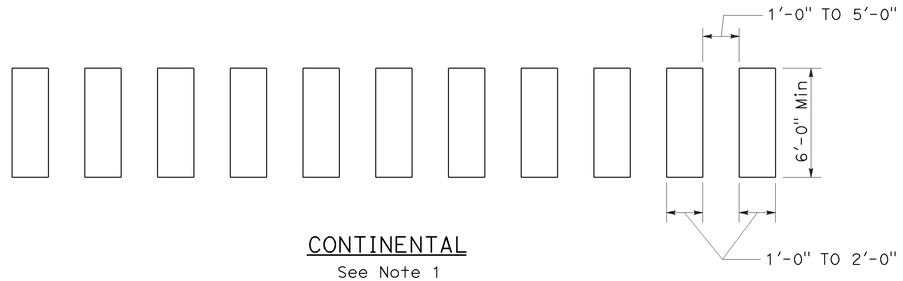
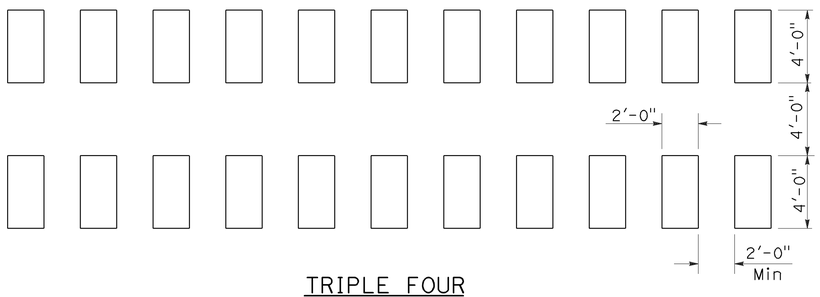
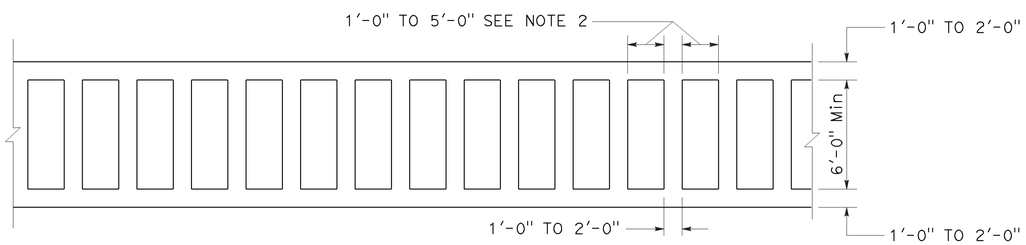
TO ACCOMPANY PLANS DATED 12-17-12



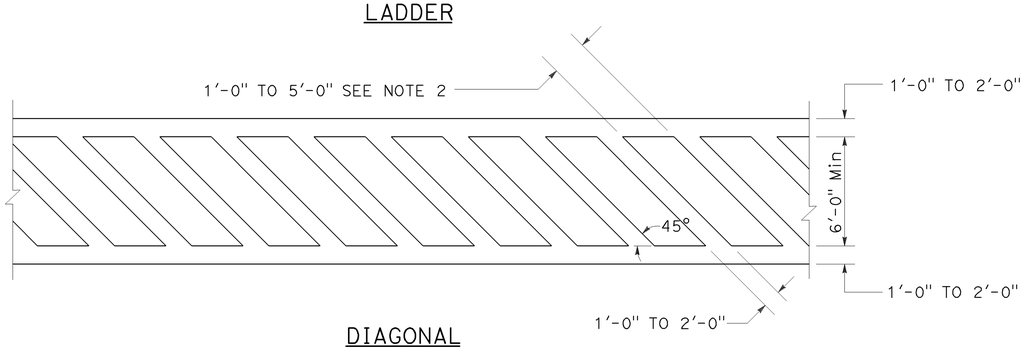
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

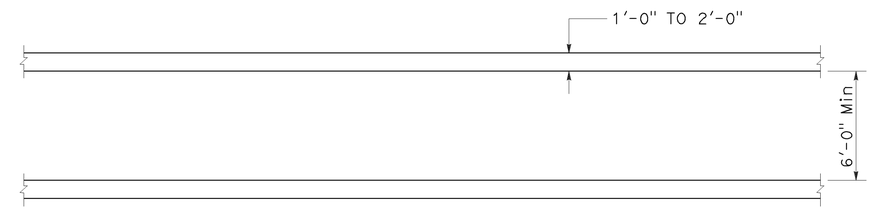


DIAGONAL

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

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12