Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45, 80,113	Var	1	25

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS
4-6	CONSTRUCTION AREA SIGNS
7	PAVEMENT DELINEATION QUANTITIES
8-14	TRAFFIC CONTROL SYSTEMS
15-20	REVISED STANDARD PLANS
STRUCTURE PLANS	
21-25	STRUCTURE GENERAL PLANS

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

STATE OF CALIFORNIA

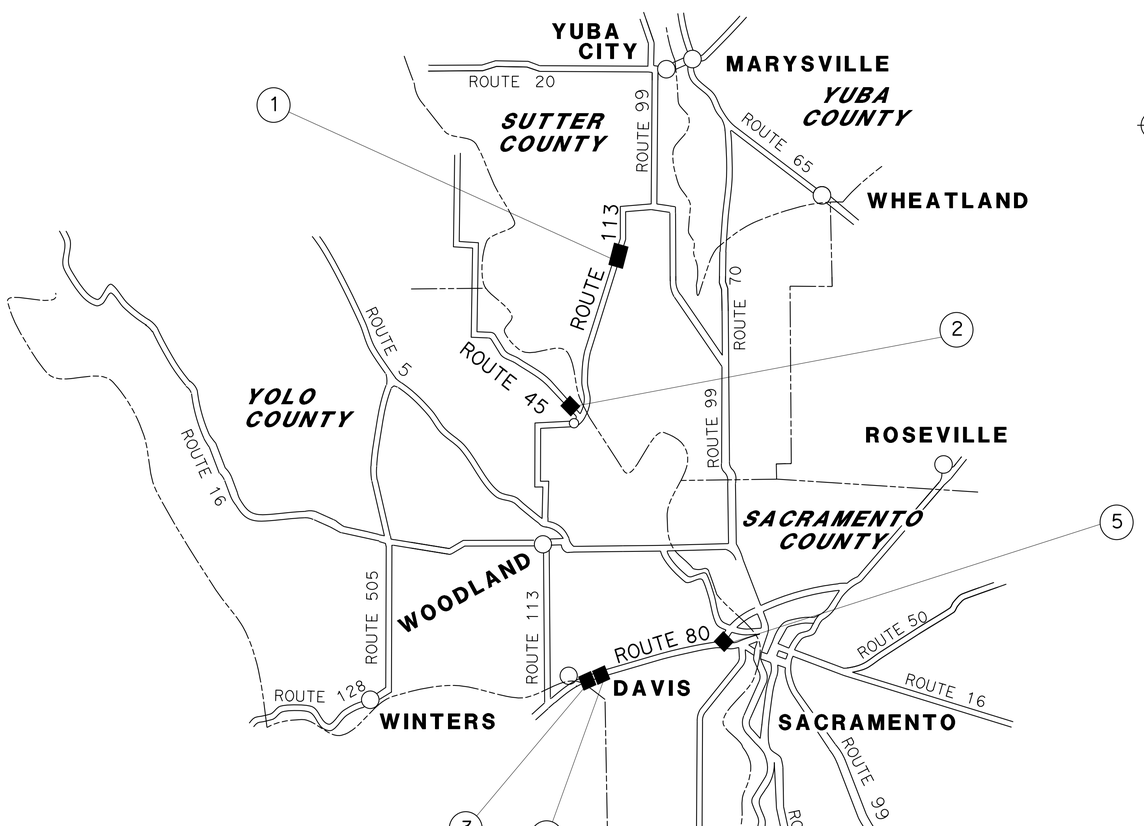
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SUTTER AND YOLO COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

LOCATION MAP

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	STRUCTURE NAME
1	Sut	113	R10.81	18-0032	SUTTER BYPASS BR
2	Yol	45	0.13	22-0041	SYCAMORE SLOUGH BR
3	Yol	80	0.01	22-0194	PUTAH CREEK PUC
4	Yol	80	0.24	22-0077	RICHARDS BLVD OC
5	Yol	80	R10.02	22-0141F	W80-E50 CONNECTOR OC

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 2-25-13

February 25, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID S. LAMB — No. C53386 — Exp. 6-30-13 — 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.

PROJECT MANAGER: RONALD SYKES

DESIGN ENGINEER: RONALD SYKES

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

CONTRACT No.	03-4M4904
PROJECT ID	0312000005

LAST REVISION 01-24-13 — DATE PLOTTED => 04-MAR-2013 — TIME PLOTTED => 14:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45,80,113	Var	2	25

REGISTERED CIVIL ENGINEER 2-25-13 DATE

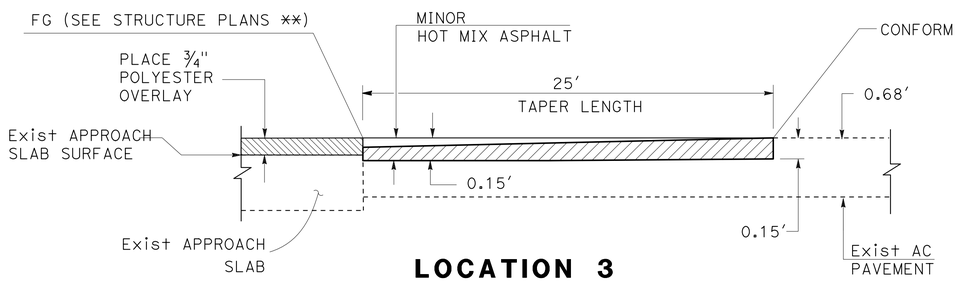
2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

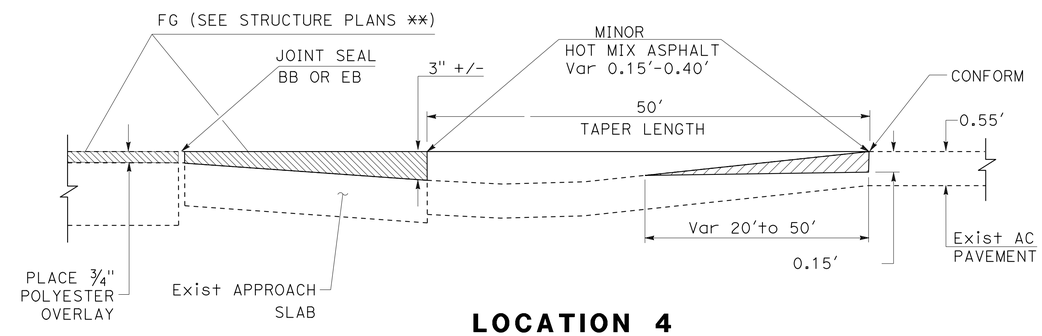
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

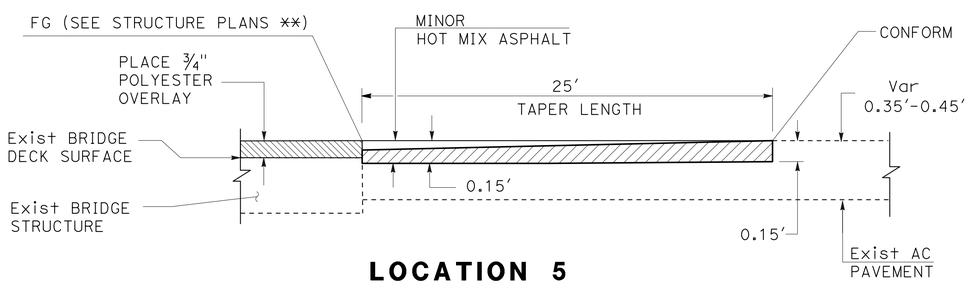
- POLYESTER CONCRETE OVERLAY (3/4" MIN)
- COLD PLANE AC PAVEMENT (0.15' MAX)
- REPLACE AC SURFACING



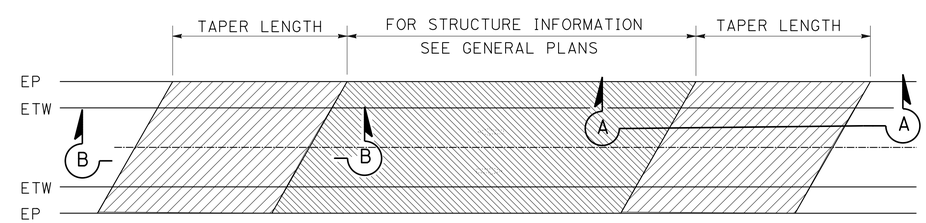
LOCATION 3
SECTION B-B



LOCATION 4
SECTION A-A



LOCATION 5
SECTION B-B



AC PAVEMENT CONFORM

NOTE: ** BEGIN AND END OF BRIDGE OR END OF APPROACH AND DEPARTURE SLABS.

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD SYKES
CALCULATED-DESIGNED BY: JOE SAAVEDRA
CHECKED BY: DAVID LAMB
REVISED BY
DATE REVISED

LAST REVISION 01-25-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45,80,113	Var	3	25

D. S. Lamb 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

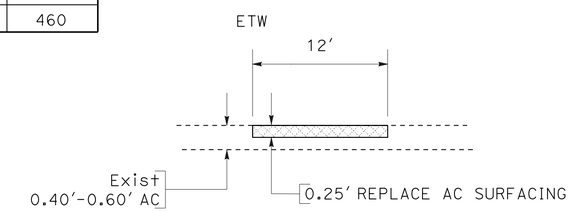
REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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.

ROADWAY QUANTITIES

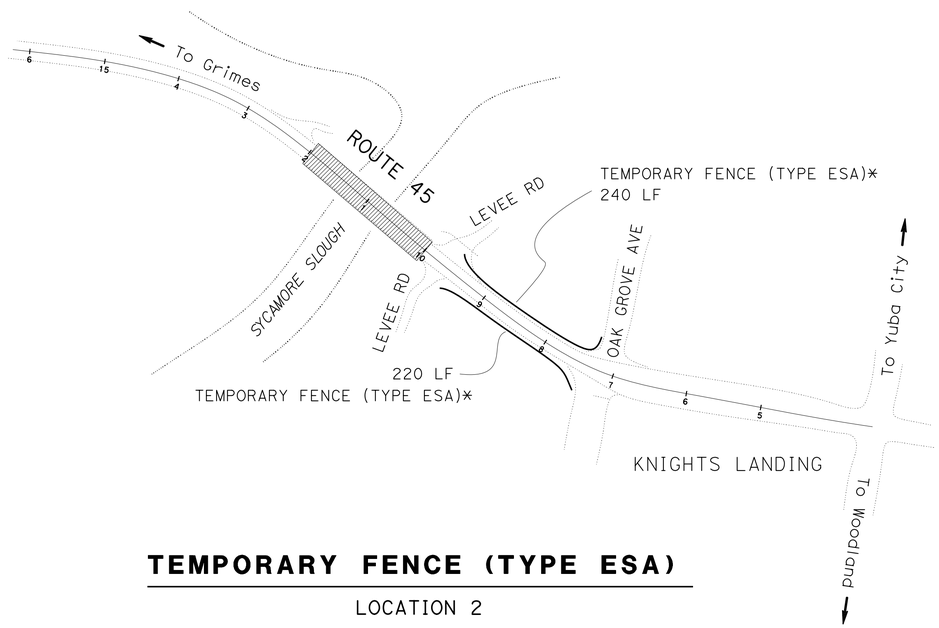
LOCATION NUMBER	COUNTY AND ROUTE	BRIDGE NUMBER	STRUCTURE NAME	TAPER LENGTH (N)	TAPER WIDTH (N)	MINOR HOT MIX ASPHALT	COLD PLANE AC PAVEMENT	REPLACE ASPHALT CONCRETE SURFACING	TEMPORARY FENCE (TYPE ESA)
				LF	LF	TON	SQYD	CY	LF
1	Sut 113	18-0032	SUTTER BYPASS BR						
2	Yol 45	22-0041	SYCAMORE SLOUGH BR						460
3	Yol 80	22-0194	PUTAH CREEK PUC	25	146	78	778	7	
4	Yol 80	22-0077	RICHARDS BLVD OC	50	79	88	878		
5	Yol 80	22-0141F	W80-E50 CONNECTOR OC	25	32	18	178		
TOTAL						184	1,833	7	460

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



REPLACE AC SURFACING

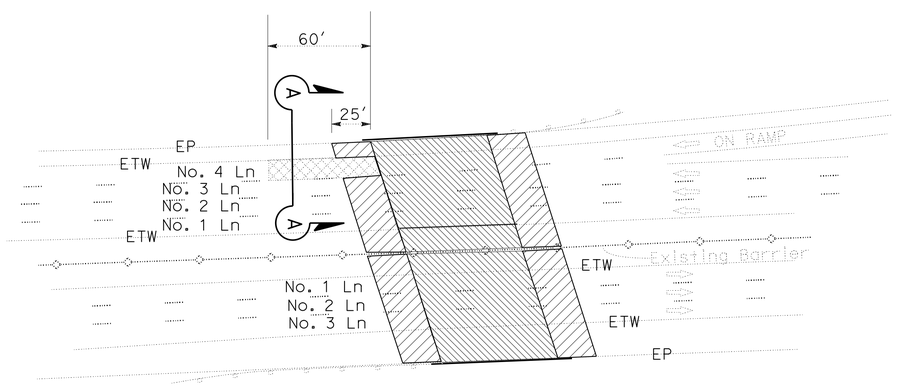
SECTION A-A



TEMPORARY FENCE (TYPE ESA)

LOCATION 2

* PLACE TEMPORARY FENCE (TYPE ESA) ALONG EDGE OF PAVEMENT.



REPLACE AC SURFACING

LOCATION 3

CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD SYKES
CALCULATED-DESIGNED BY: JOE SAAVEDRA
CHECKED BY: DAVID LAMB
REVISED BY
DATE REVISED

LAST REVISION 01-25-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 15:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45,80,113	Var	4	25

REGISTERED CIVIL ENGINEER 2-25-13 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6/30/13 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.

LEGEND

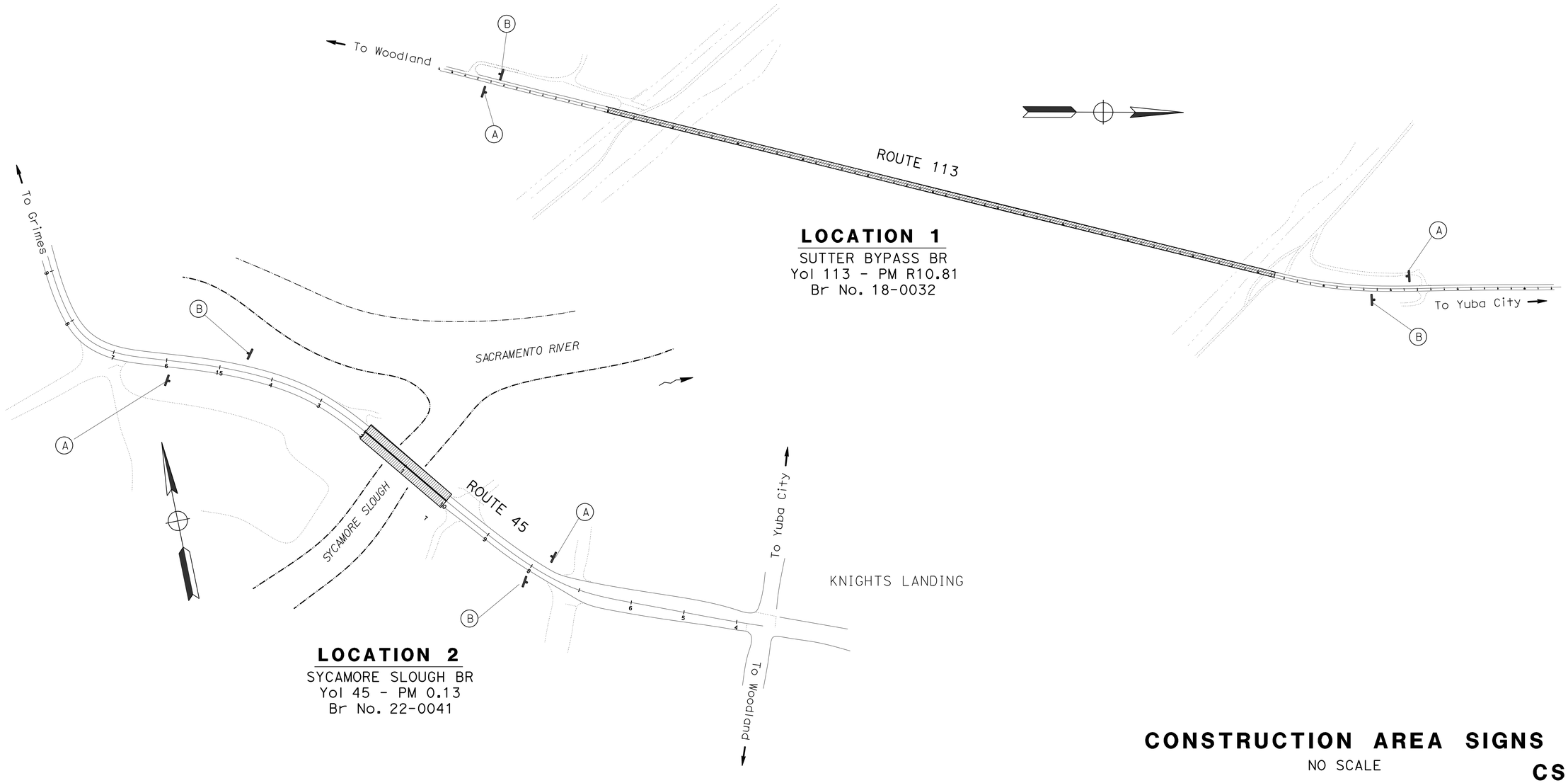
(X) CONSTRUCTION AREA SIGN LETTER
<CA> CALIFORNIA SIGN CODE

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"	6
(B)		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	11
(C)	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	6

NOTE:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



LOCATION 1
SUTTER BYPASS BR
Yol 113 - PM R10.81
Br No. 18-0032

LOCATION 2
SYCAMORE SLOUGH BR
Yol 45 - PM 0.13
Br No. 22-0041

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD SYKES
CALCULATED-DESIGNED BY: JOE SAAVEDRA
CHECKED BY: DAVID LAMB
REVISED BY / DATE REVISED

LAST REVISION 01-25-13 | DATE PLOTTED => 04-MAR-2013 | TIME PLOTTED => 15:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45,80,113	Var	5	25

D.S. Lamb 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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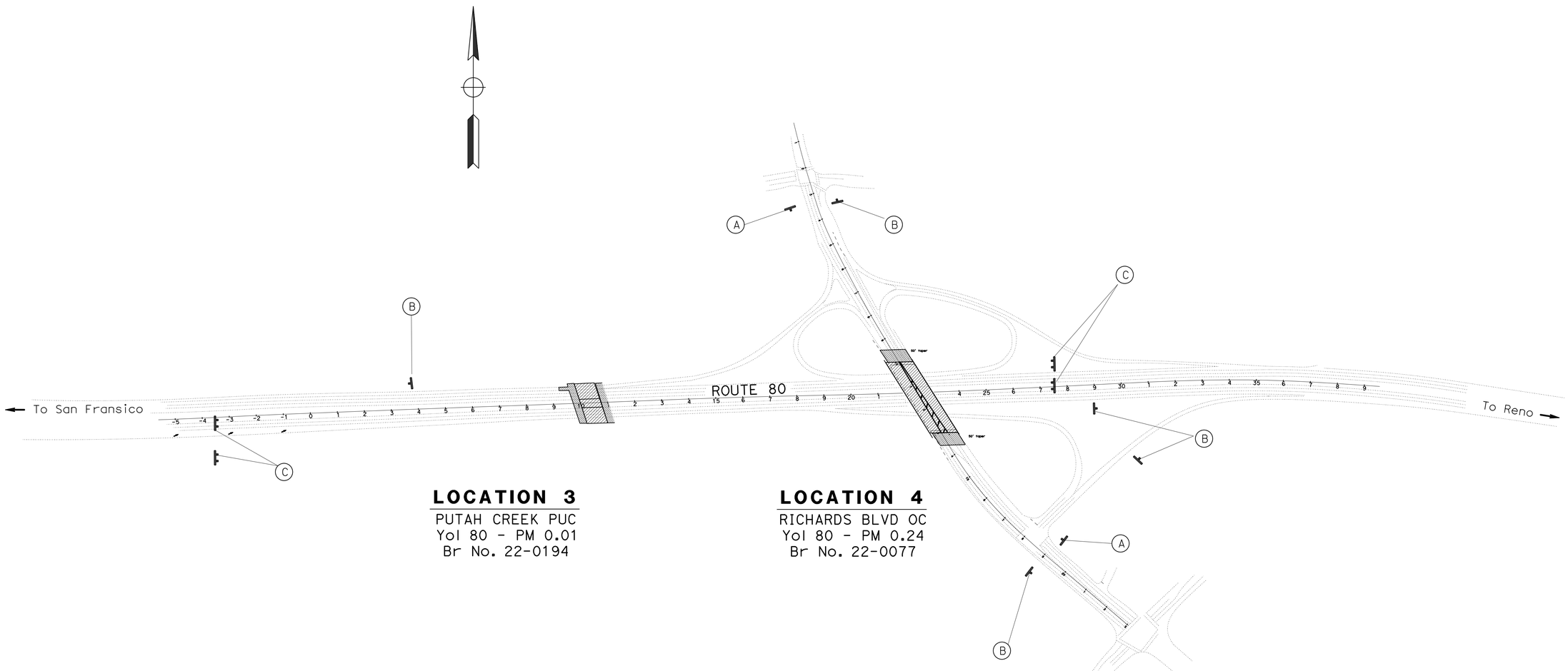

LOCATION 3
PUTAH CREEK PUC
Yol 80 - PM 0.01
Br No. 22-0194

LOCATION 4
RICHARDS BLVD OC
Yol 80 - PM 0.24
Br No. 22-0077

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **MAINTENANCE**

FUNCTIONAL SUPERVISOR: RONALD SYKES

CALCULATED-DESIGNED BY: JOE SAAVEDRA
CHECKED BY: DAVID LAMB

REVISED BY
DATE REVISED

LAST REVISION 01-25-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45,80,113	Var	6	25

D.S. Lamb 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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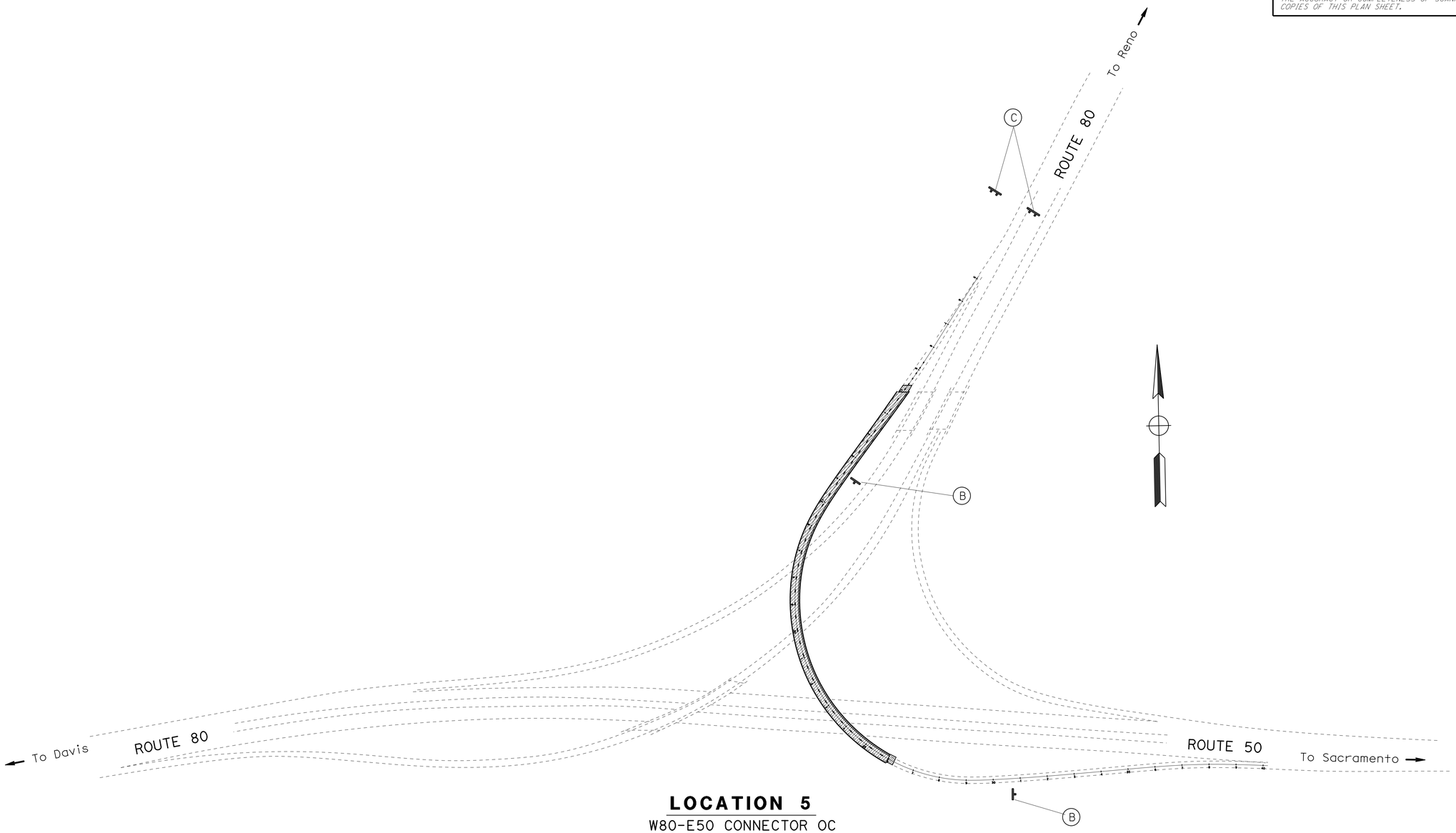

LOCATION 5
W80-E50 CONNECTOR OC
Yol 80 - PM R10.02
Br No. 22-0141F

CONSTRUCTION AREA SIGNS

NO SCALE

CS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: RONALD SYKES
CALCULATED-DESIGNED BY: JOE SAAVEDRA
CHECKED BY: DAVID LAMB
REVISED BY
DATE REVISED

LAST REVISION 01-25-13 | DATE PLOTTED => 04-MAR-2013 | TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut,Yol	45,80,113	Var	7	25

D.S. Lamb 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID S. LAMB No. C53386 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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THERMOPLASTIC PAVEMENT MARKINGS

LOCATION	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	STRUCTURE NAME	4" WHITE DIAGONAL	12" WHITE CHEVRONS	12" YELLOW DIAGONALS	"BIKE"	"LANE"	BIKE LANE ARROW
						SQFT					
4	Yol	80	0.24	22-0077	RICHARDS BLVD OC	61	100	113	10	12	14
TOTAL						310					

PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	STRUCTURE NAME	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36 - 12)			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17 - 7)	4" THERMOPLASTIC TRAFFIC STRIPE						8" THERMOPLASTIC TRAFFIC STRIPE	6" THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER (RETROREFLECTIVE)		
						DETAIL												TYPE		
						6	12	19	9	19	22	25	25A	27B	29	36	39	D	G	H
						LF												EA		
1	Sut	113	R10.81	18-0032	SUTTER BYPASS BR	2,925		2,020		2,020	410			10,300				121		84
2	Yol	45	0.13	22-0041	SYCAMORE SLOUGH BR						390			390				18		
3	Yol	80	0.01	22-0194	PUTAH CREEK PUC		890					252		287					24	6
4	Yol	80	0.24	22-0077	RICHARDS BLVD OC				404					200	2,016	756	758	22	72	
5	Yol	80	R10.02	22-0141F	W80-E50 CONNECTOR OC		1,626						1,626	1,626					35	70
					SUBTOTAL	2,925	2,516	2,020	404	2,020	800	252	1,626	12,803	2,016	756	758	161	131	160
					TOTAL	7,461			404	19,517						756	758	452		

REMOVE PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	STRUCTURE NAME	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)
						LF	LF
1	Sut	113	R10.81	18-0032	SUTTER BYPASS BR	10,300	3,818
2	Yol	45	0.13	22-0041	SYCAMORE SLOUGH BR	390	390
3	Yol	80	0.01	22-0194	PUTAH CREEK PUC	247	152
4	Yol	80	0.24	22-0077	RICHARDS BLVD OC	2,550	1,513
5	Yol	80	R10.02	22-0141F	W80-E50 CONNECTOR OC	1,970	1,576
					TOTAL	15,457	7,449

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
JOE SAAVEDRA | DAVID LAMB
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION 01-25-13 | DATE PLOTTED => 04-MAR-2013 | TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut, Yol	45,80, 113	Var	8	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

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

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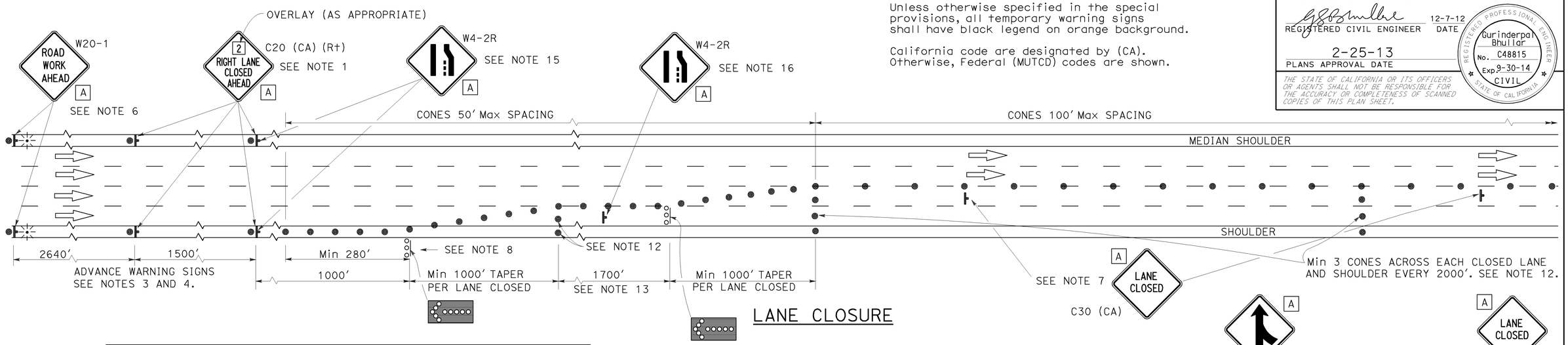
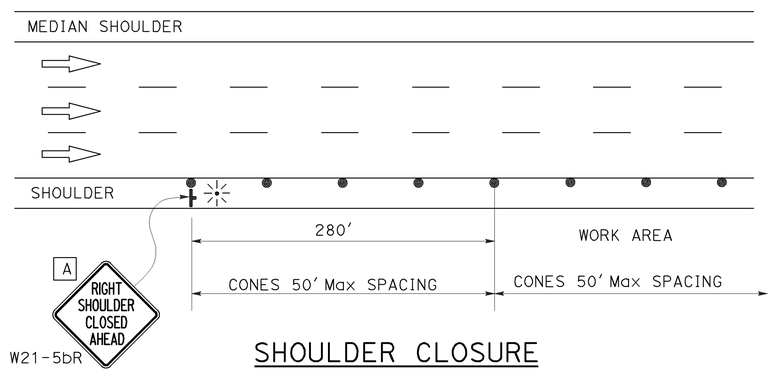
NOTES:

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

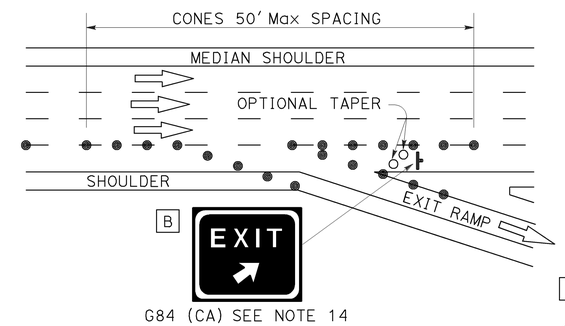
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



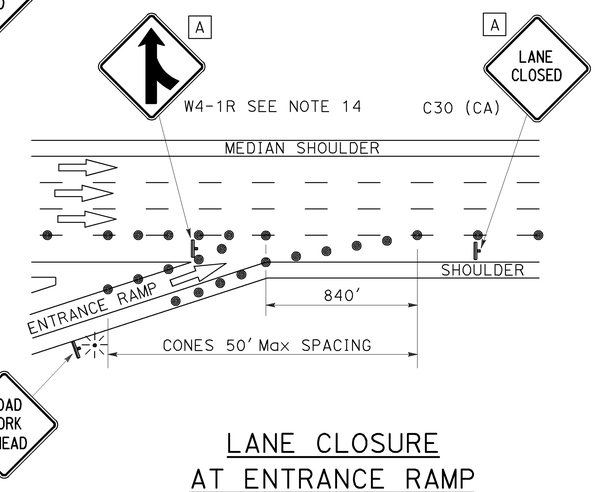
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway 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.
5. 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.
6. 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.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. 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.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-1

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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	Sut, Yol	45,80, 113	Var	9	25

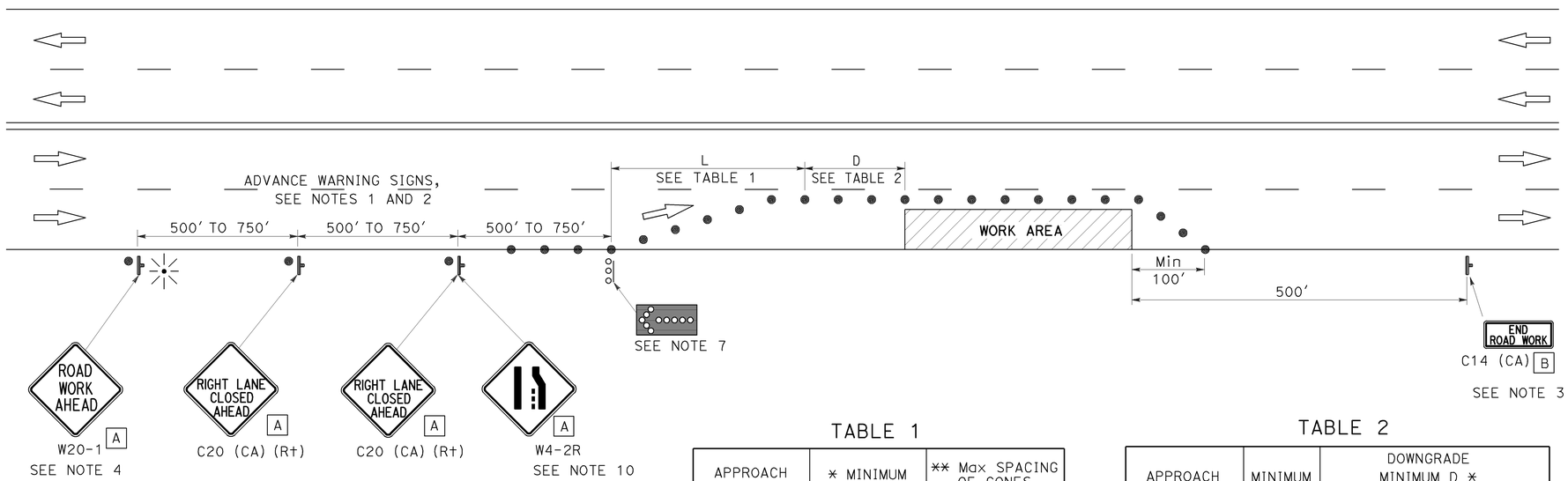
REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
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.

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-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	Sut, Yol	45,80, 113	Var	10	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
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.

LEGEND

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

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 11	

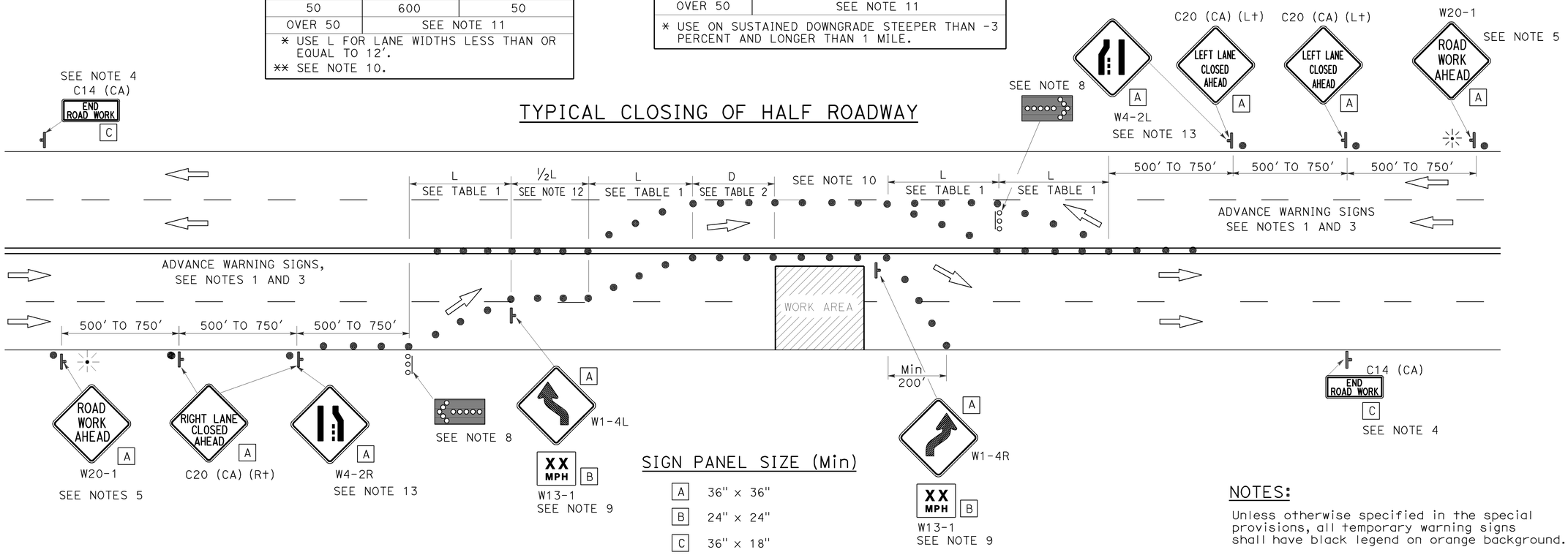
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 10.

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 11			

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

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

A	36" x 36"
B	24" x 24"
C	36" x 18"

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.

NOTES:

1. Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
3. 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.
4. 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.
5. 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.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
11. 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.
12. Unless otherwise specified in the special provisions, the (½ L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL 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
03	Sut, Yol	45,80, 113	Var	11	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

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

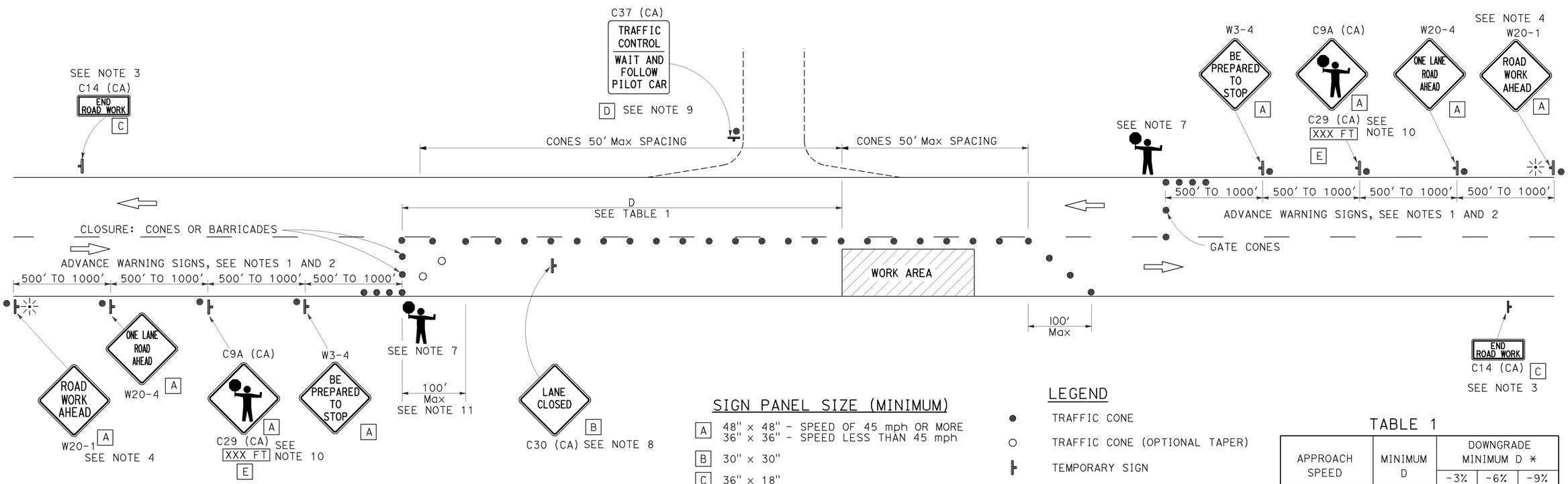
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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

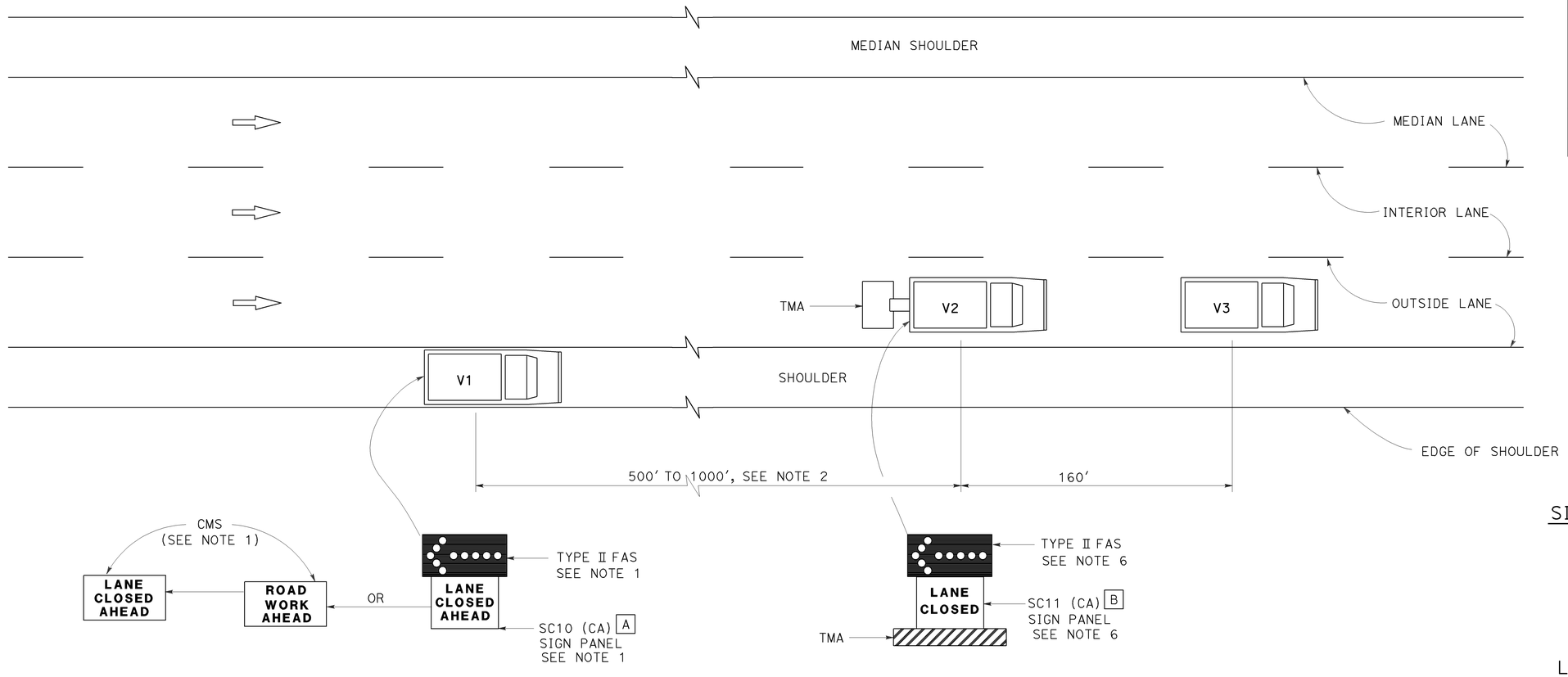
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut, Yol	45,80, 113	Var	12	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
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 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-5

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	Sut, Yol	45,80, 113	Var	13	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

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

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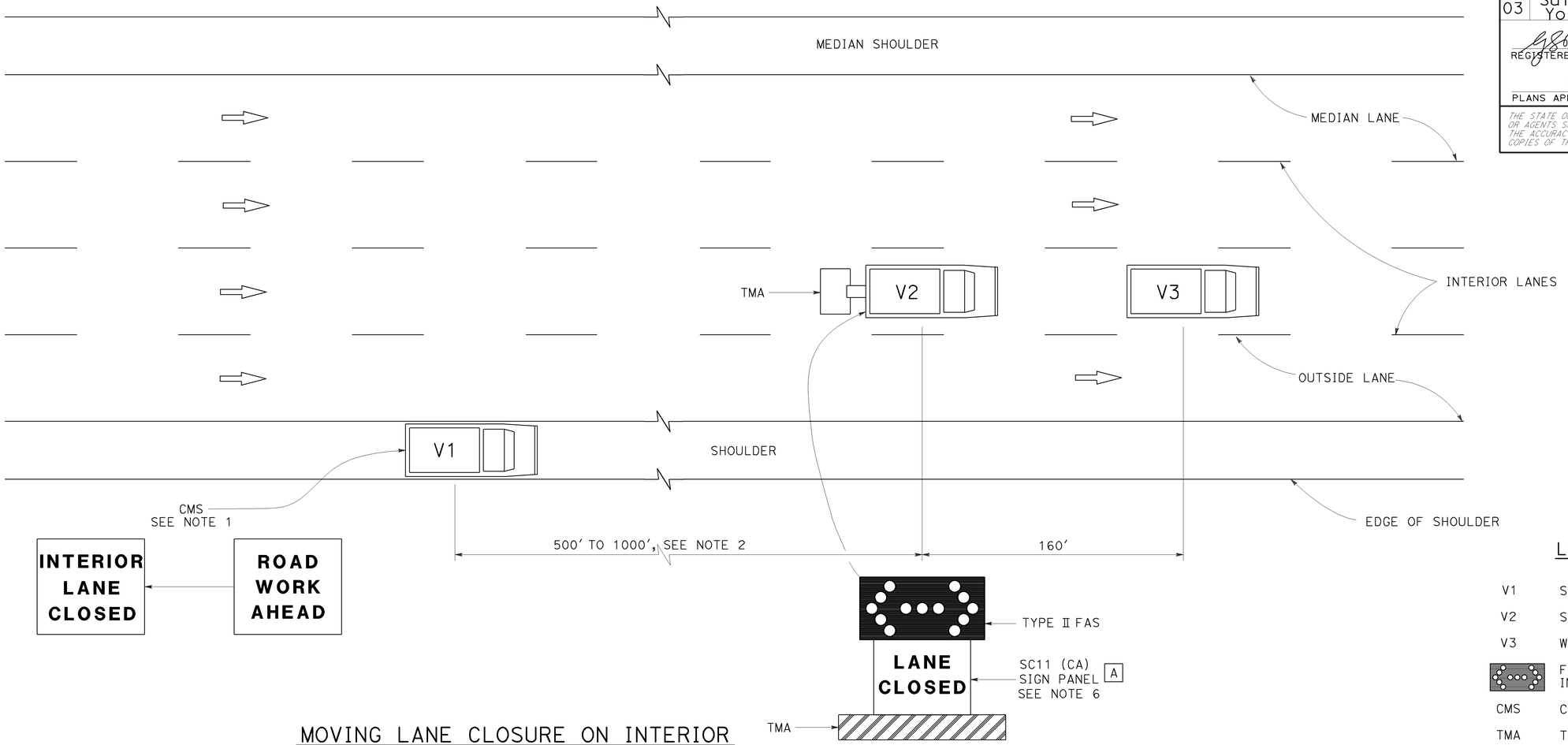

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

LEGEND

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

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
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.
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.
8. All vehicles shall be equipped with flashing or rotating amber lights.
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 (INTERIOR LANES)

NO SCALE

TCS-6

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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	Sut, Yol	45,80, 113	Var	14	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

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

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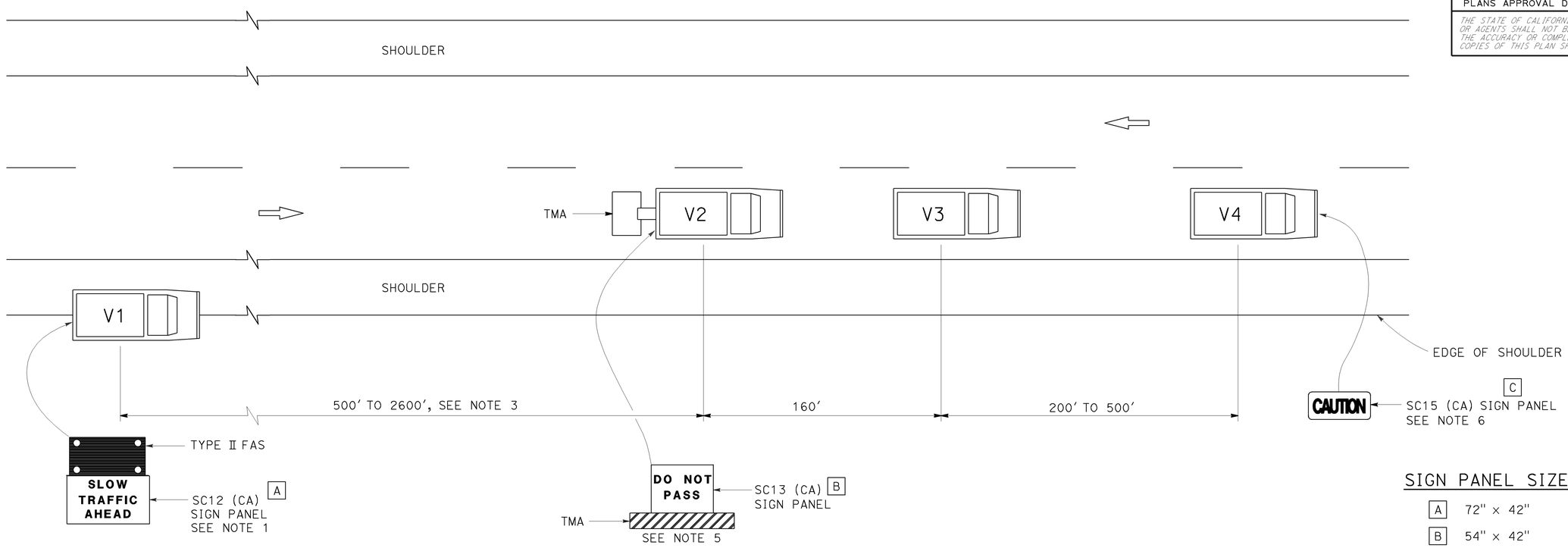

SIGN PANEL SIZE (Min)

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-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
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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	Sut, Yol	45, 80, 113	Var	15	25

REGISTERED CIVIL ENGINEER

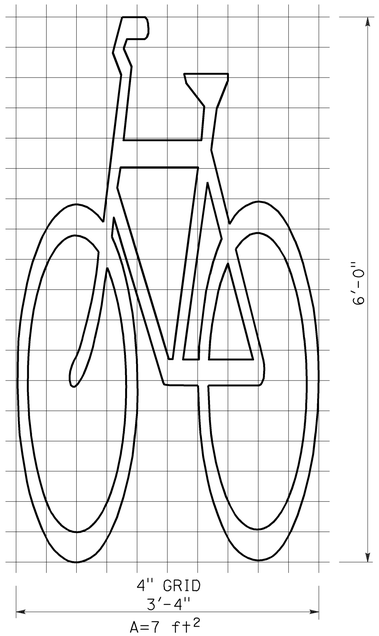
October 19, 2012
PLANS APPROVAL DATE

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

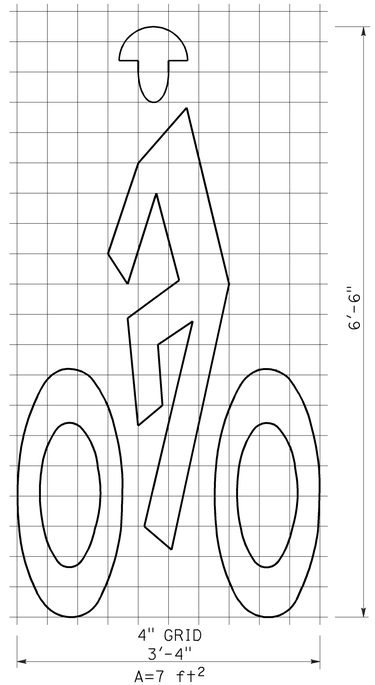
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: TO ACCOMPANY PLANS DATED 2-25-13

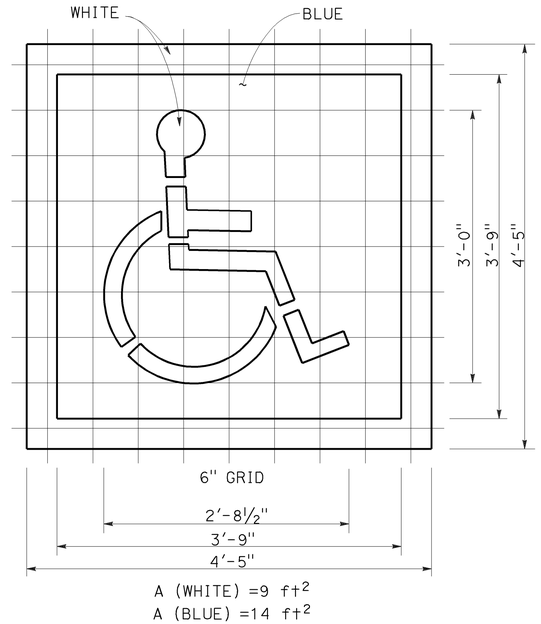
Minor variations in dimensions may be accepted by the Engineer.



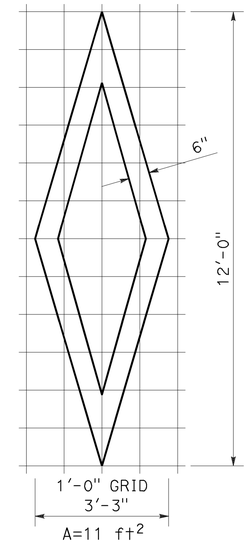
BIKE LANE SYMBOL WITHOUT PERSON



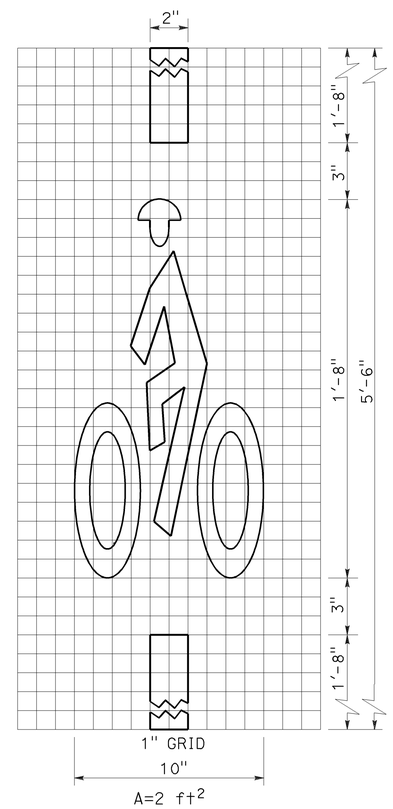
BIKE LANE SYMBOL WITH PERSON



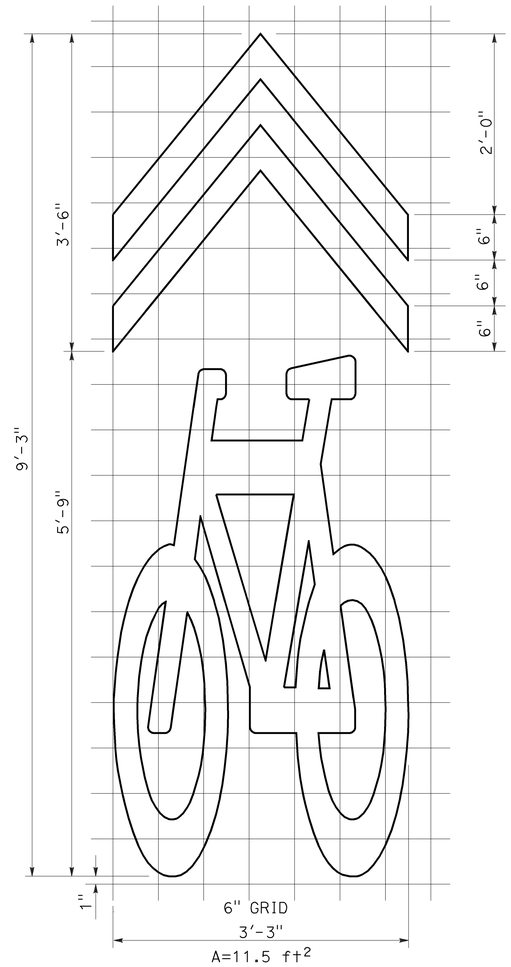
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



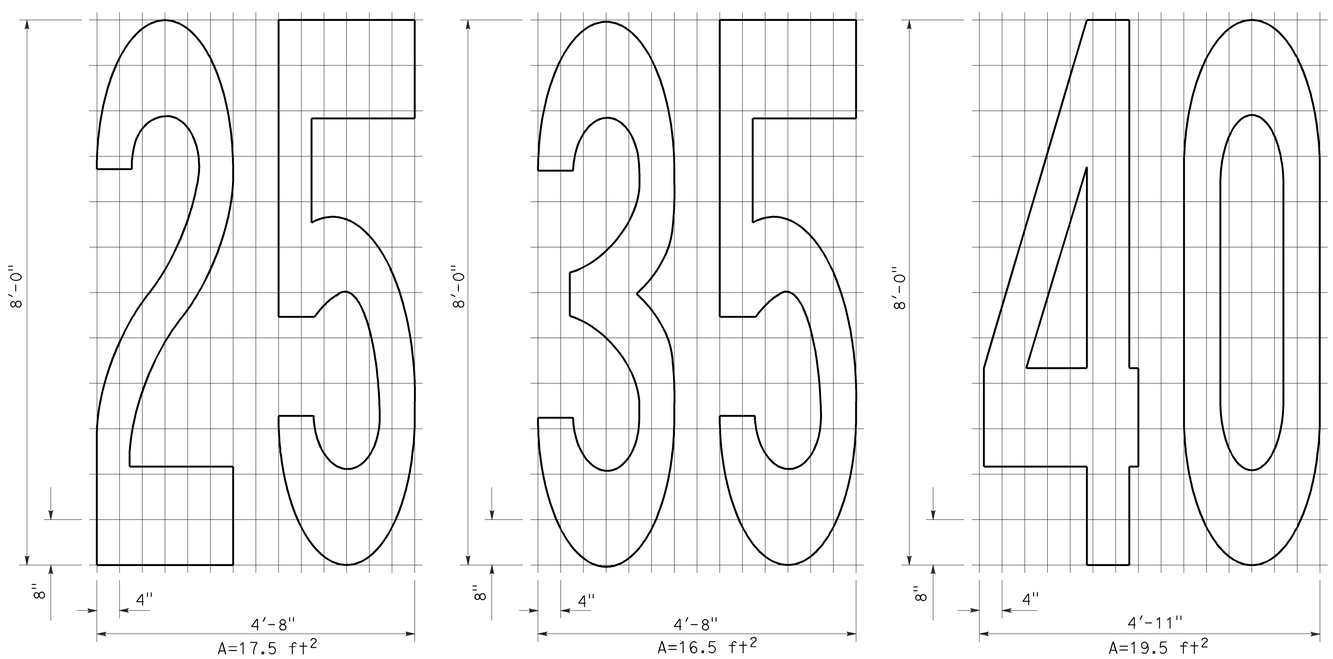
DIAMOND SYMBOL



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	Sut, Yol	45,80, 113	Var	16	25

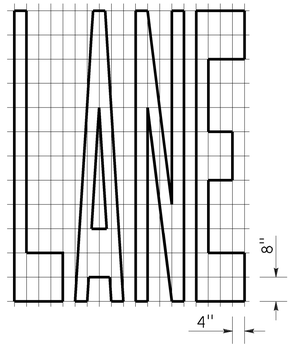
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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 2-25-13



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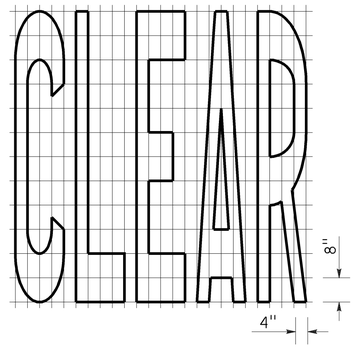
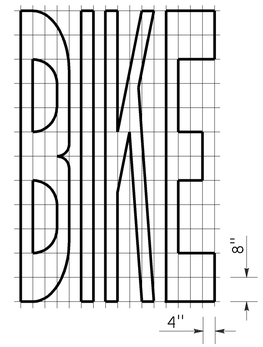
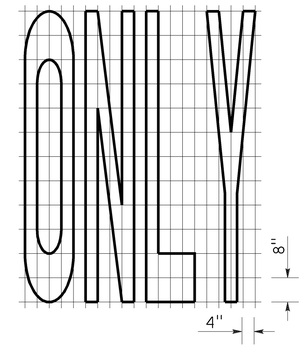


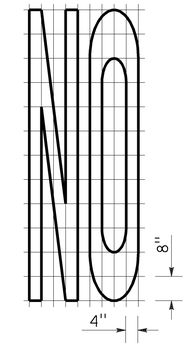
A=27 ft²



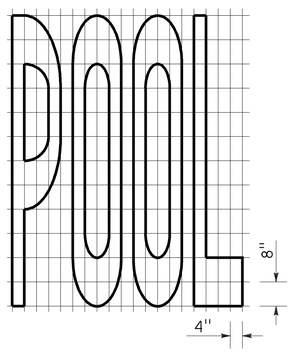
A=21 ft²



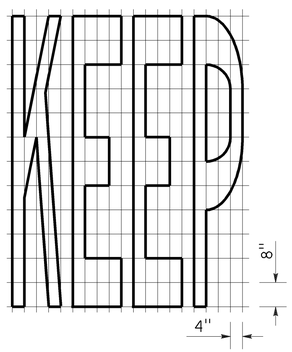
A=22 ft²



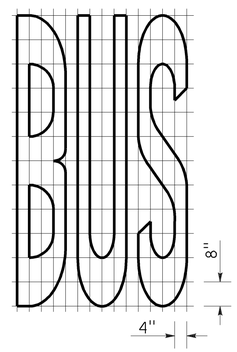
A=14 ft²



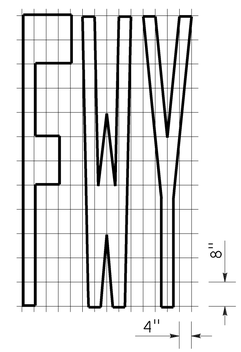
A=23 ft²



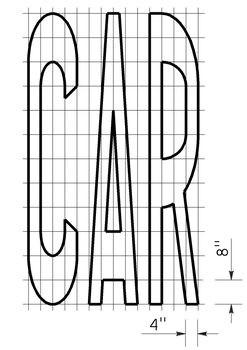
A=24 ft²



A=20 ft²

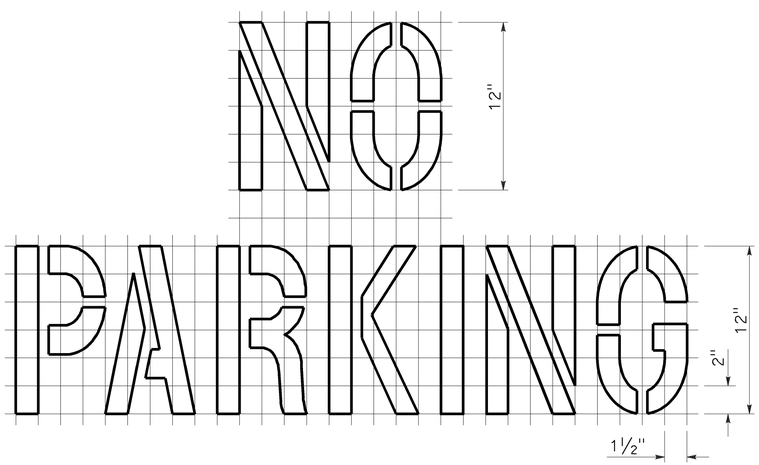


A=16 ft²

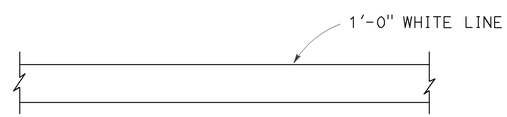


A=17 ft²

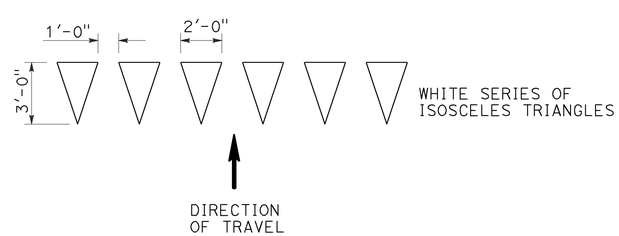
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sut, Yol	45,80, 113	Var	17	25

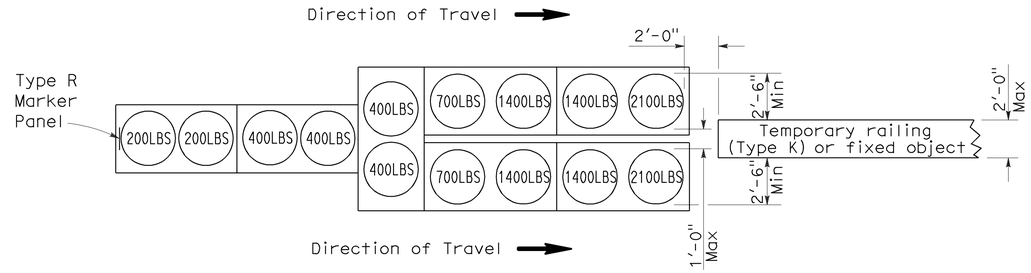
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

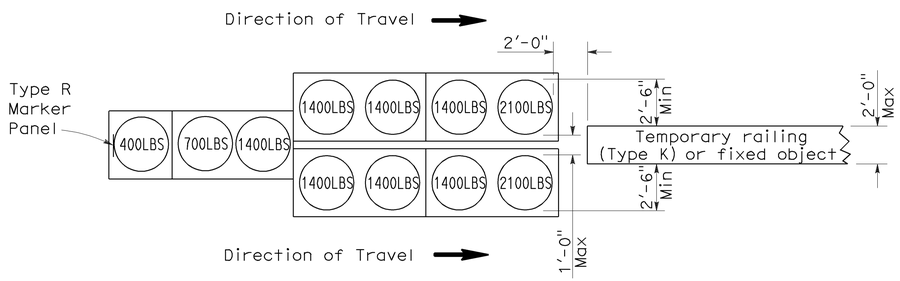
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-25-13



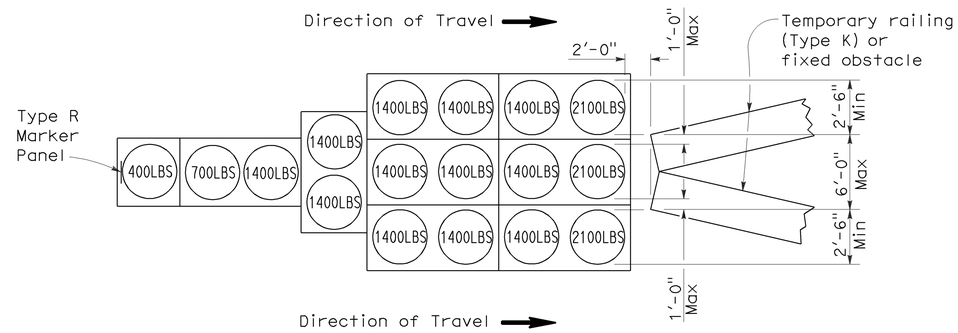
ARRAY 'TU14'

Approach speed 45 mph or more



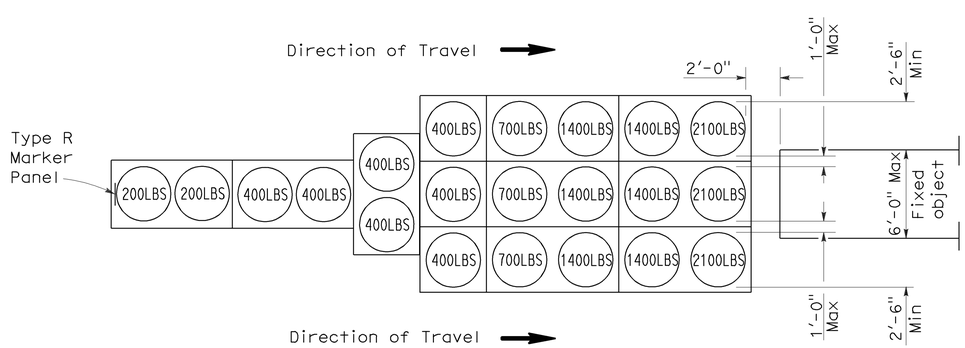
ARRAY 'TU11'

Approach speed less than 45 mph



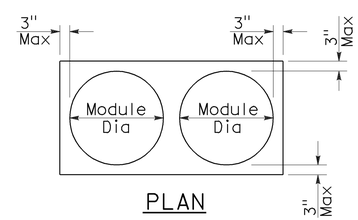
ARRAY 'TU17'

Approach speed less than 45 mph

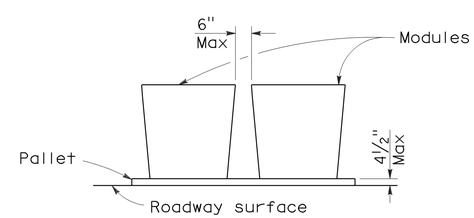


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sut, Yol	45,80, 113	Var	18	25

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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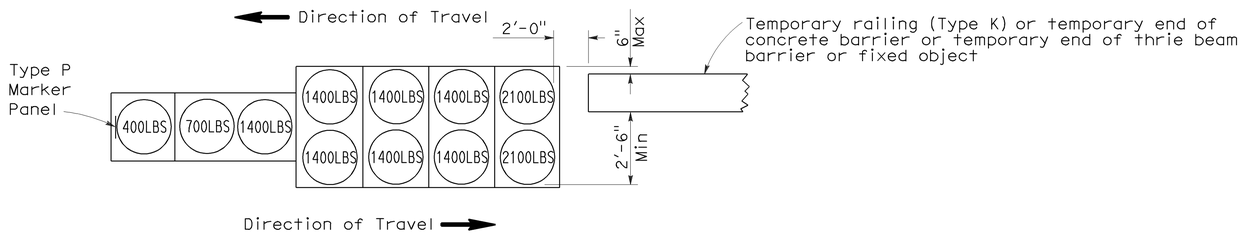
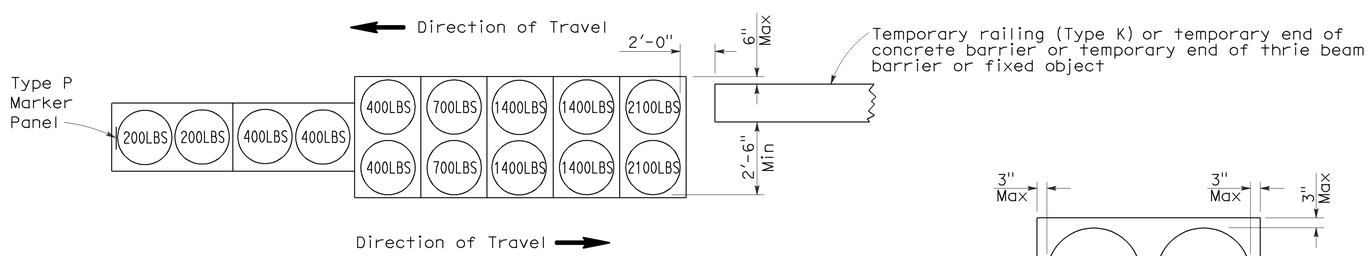
To accompany plans dated 2-25-13



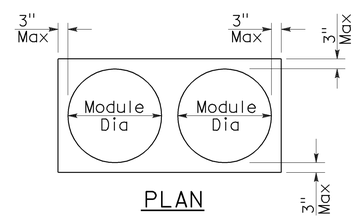
ARRAY 'TB11'

Approach speed less than 45 mph

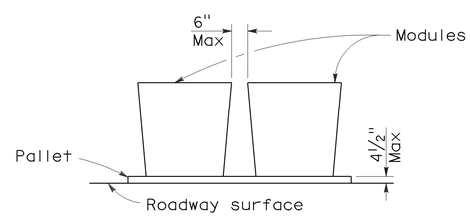


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sut, Yol	45,80, 113	Var	19	25

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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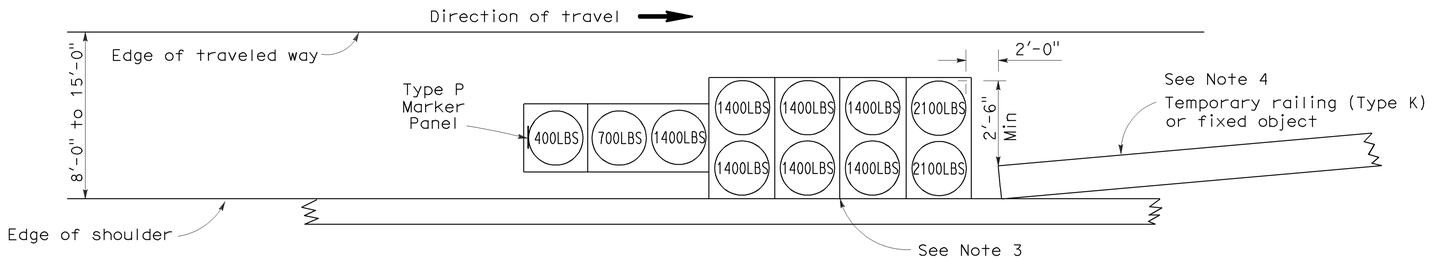
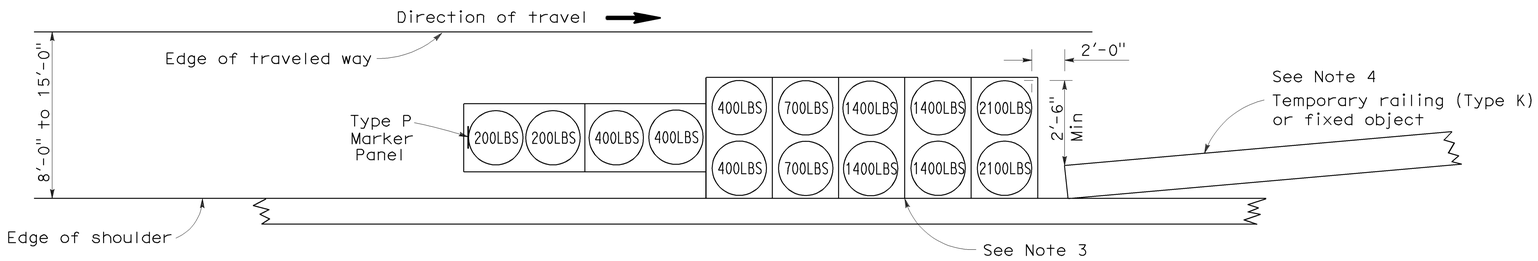
To accompany plans dated 2-25-13



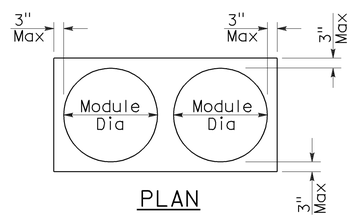
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

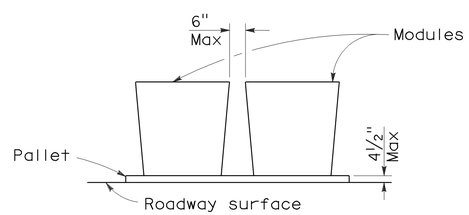


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut, Yol	45,80, 113	Var	20	25

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

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

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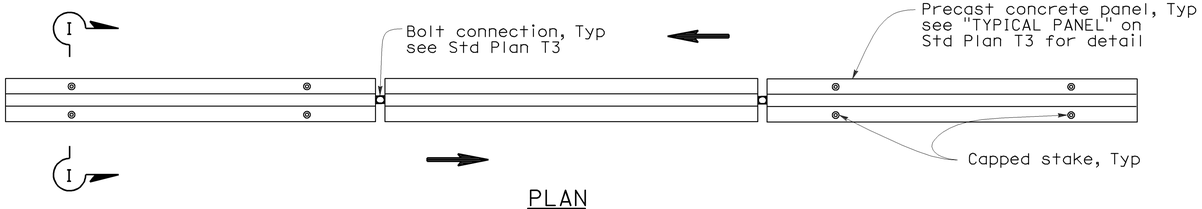
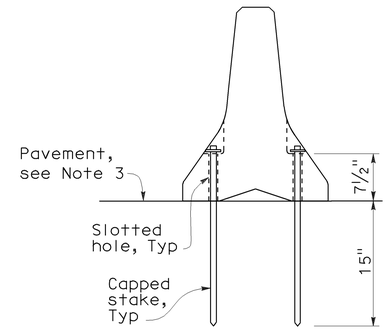
To accompany plans dated 2-25-13



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

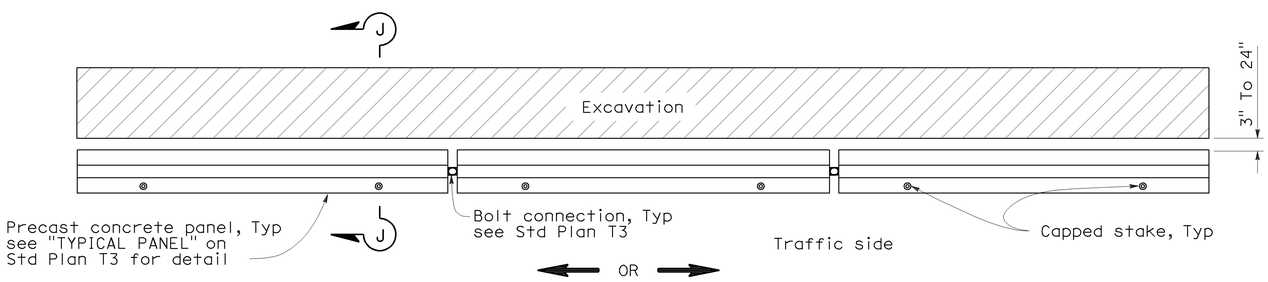
See Note 1



SECTION I-I

NOTES:

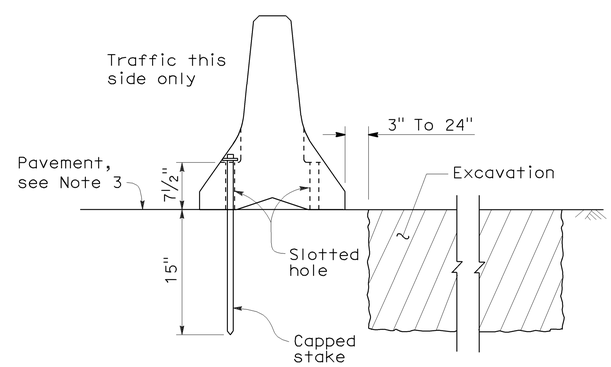
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by ⟶.



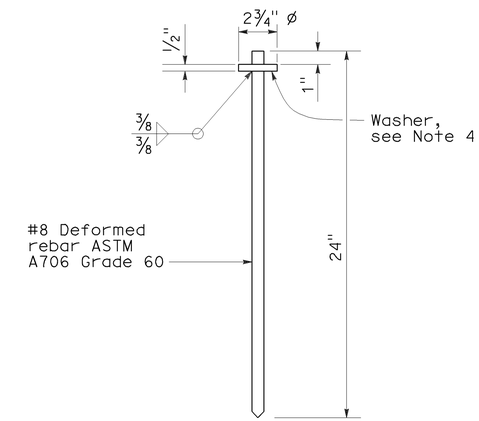
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SUT,YOL	45,80,113	Var	21	25

REGISTERED CIVIL ENGINEER 12-17-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P. NGUYEN No. 68270 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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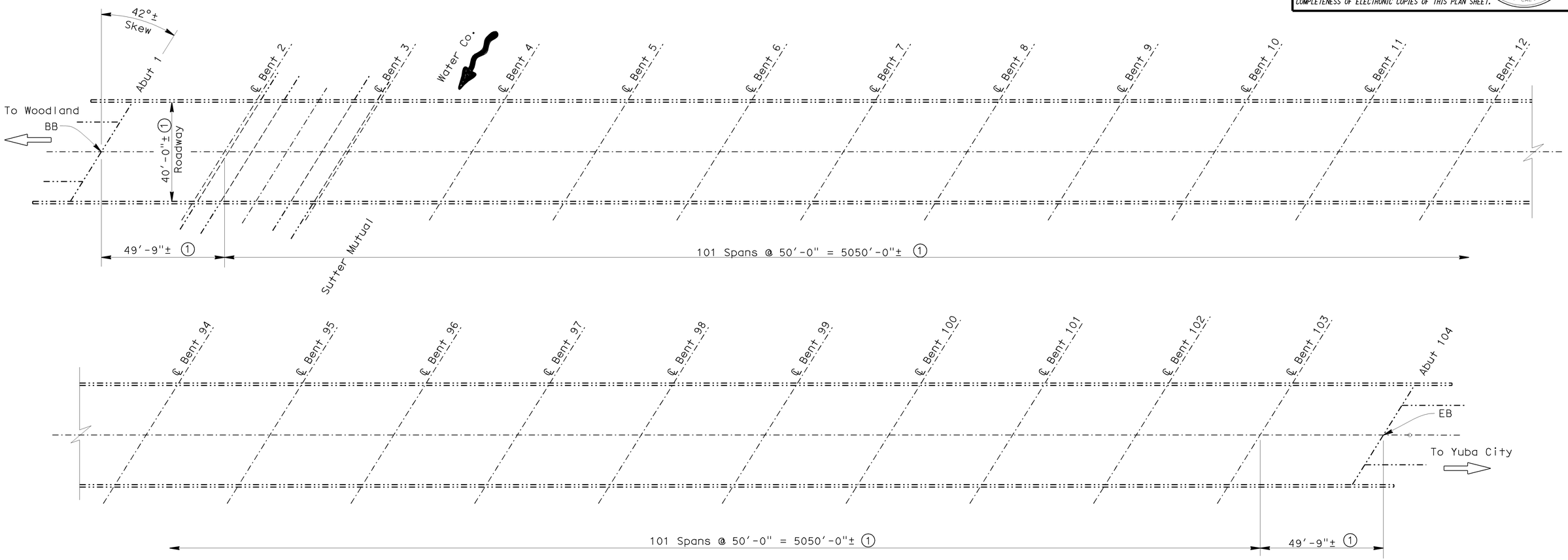
SUTTER CAUSEWAY BR. NO. 18-0032

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	205,980	SQFT
REMOVE CHIP SEAL	205,980	SQFT
TREAT BRIDGE DECK	205,980	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	2,289	GAL



Notes: (This page only)

-·-·-·-·- Indicates existing structure.

① Indicates limits of remove asphaltic chip seal (½"±), prepare, and treat bridge deck with high molecular weight methacrylate.

SUTTER BYPASS

BRIDGE NO. 18-0032, RTE 113, SUT, PM R10.81
1"=20'
(Location 1)

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	MISCELLANEOUS DETAILS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2") *
*	ALSO APPLIES TO MR = 2½"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Standard Plan Sheet No.
Detail No.

Michael J. Lee 12-17-12 DESIGN ENGINEER	DESIGN	BY Franz Espinoza	CHECKED Brian Nguyen	LAYOUT	BY Trung Lam
	DETAILS	BY Trung Lam	CHECKED Brian Nguyen	SPECIFICATIONS	BY Laura Rubalcaba
	QUANTITIES	BY Franz Espinoza	CHECKED Brian Nguyen		

CHECKED Brian Nguyen
PLANS AND SPECIFICATIONS COMPARED Laura Rubalcaba

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 45, 80 & 113 BRIDGES

GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000005 1
CONTRACT NUMBER: 03-4M4901

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES 12-17-12 01-31-13 5-28-12 6-22-12 7-02-12

SHEET 1 OF 5

FILE => 03-4m4901_01_gp1.dgn

USERNAME => s1212289 DATE PLOTTED => 26-FEB-2013 TIME PLOTTED => 15:21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SUT,YOL	45,80,113	Var	22	25

REGISTERED CIVIL ENGINEER 12-17-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P. NGUYEN No. 68270 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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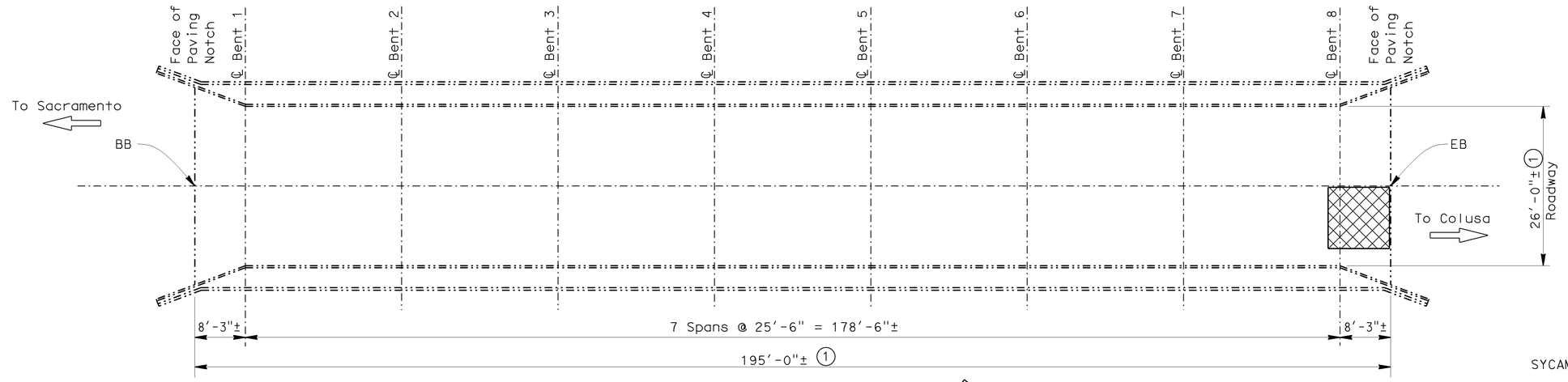


SYCAMORE SLOUGH

BRIDGE NO. 22-0041, RTE 45, YOL, PM 0.13
1"=10'
(Location 2)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SYCAMORE SLOUGH BR. NO. 22-0041

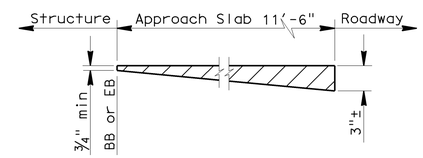
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,100	SQFT
TREAT BRIDGE DECK	5,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	57	GAL
REMOVE ASPHALT CONCRETE SURFACING	100	SQFT

RICHARDS BLVD O.C. BR. NO. 22-0077

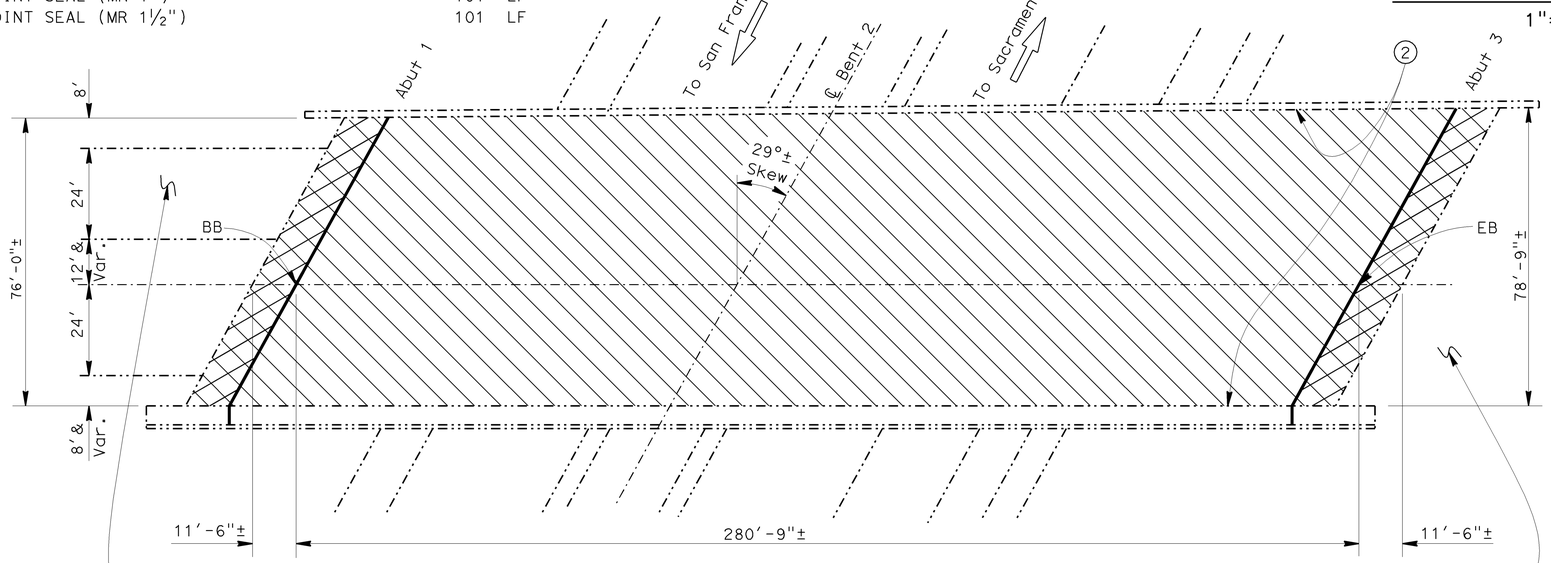
QUANTITIES

REMOVE UNSOUND CONCRETE	59	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	23,500	SQFT
GRIND EXISTING BRIDGE DECK	134	SQYD
CLEAN EXPANSION JOINT	202	LF
RAPID SETTING CONCRETE PATCH	59	CF
FURNISH POLYESTER CONCRETE OVERLAY	2,130	CF
PLACE POLYESTER CONCRETE OVERLAY	23,500	SQFT
JOINT SEAL (MR 1")	101	LF
JOINT SEAL (MR 1½")	101	LF



APPROACH SLAB POLYESTER OVERLAY DETAIL

1"=1'



See Road Plans for transition from top of roadway grade to new polyester overlay.

See Road Plans for transition from top of roadway grade to new polyester overlay.

RICHARDS BLVD O.C.

BRIDGE NO. 22-0077, RTE 80, YOL, PM 0.24
1"=20'
(Location 4)

Notes: (This page only)

- Indicates existing structure.
- ① Indicates limits of prepare, and treat bridge deck with high molecular weight methacrylate.
- ② Grind existing bridge deck along barrier full length of bridge plus 11'-6" of approach and departure pavement. For details, see "DECK GRIND DETAIL" on "MISCELLANEOUS DETALS" sheet.
- Indicates limits of clean expansion joint and install new joint seal. For details, see "MISCELLANEOUS DETAILS" sheet.
- Indicates limits of prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new ¾" min depth polyester overlay. For details, see "MISCELLANEOUS DETAILS" sheet.
- Polyester thickness varies from ¾" min to 3"±. For detail, see "APPROACH SLAB POLYESTER OVERLAY DETAIL".
- Indicates limits of remove existing AC (1/2"±).

Michael J. Lee 12-17-12 DESIGN ENGINEER	DESIGN	BY Franz Espinoza	CHECKED Brian Nguyen	LAYOUT	BY Trung Lam
	DETAILS	BY Trung Lam	CHECKED Brian Nguyen	SPECIFICATIONS	BY Laura Rubalcaba
	QUANTITIES	BY Franz Espinoza	CHECKED Brian Nguyen		

CHECKED Brian Nguyen
PLANS AND SPECIFICATIONS COMPARED Laura Rubalcaba

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 45, 80 & 113 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000005 1
CONTRACT NUMBER: 03-4M4901

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES 12-17-12 01-31-13 5-29-12 6-22-12 7-02-12

SHEET 2 OF 5

FILE => 03-4m4901_02_gp2.dgn

USERNAME => s121289 DATE PLOTTED => 26-FEB-2013 TIME PLOTTED => 15:21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SUT,YOL	45,80,113	Var	23	25

REGISTERED CIVIL ENGINEER 12-17-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P. NGUYEN No. 68270 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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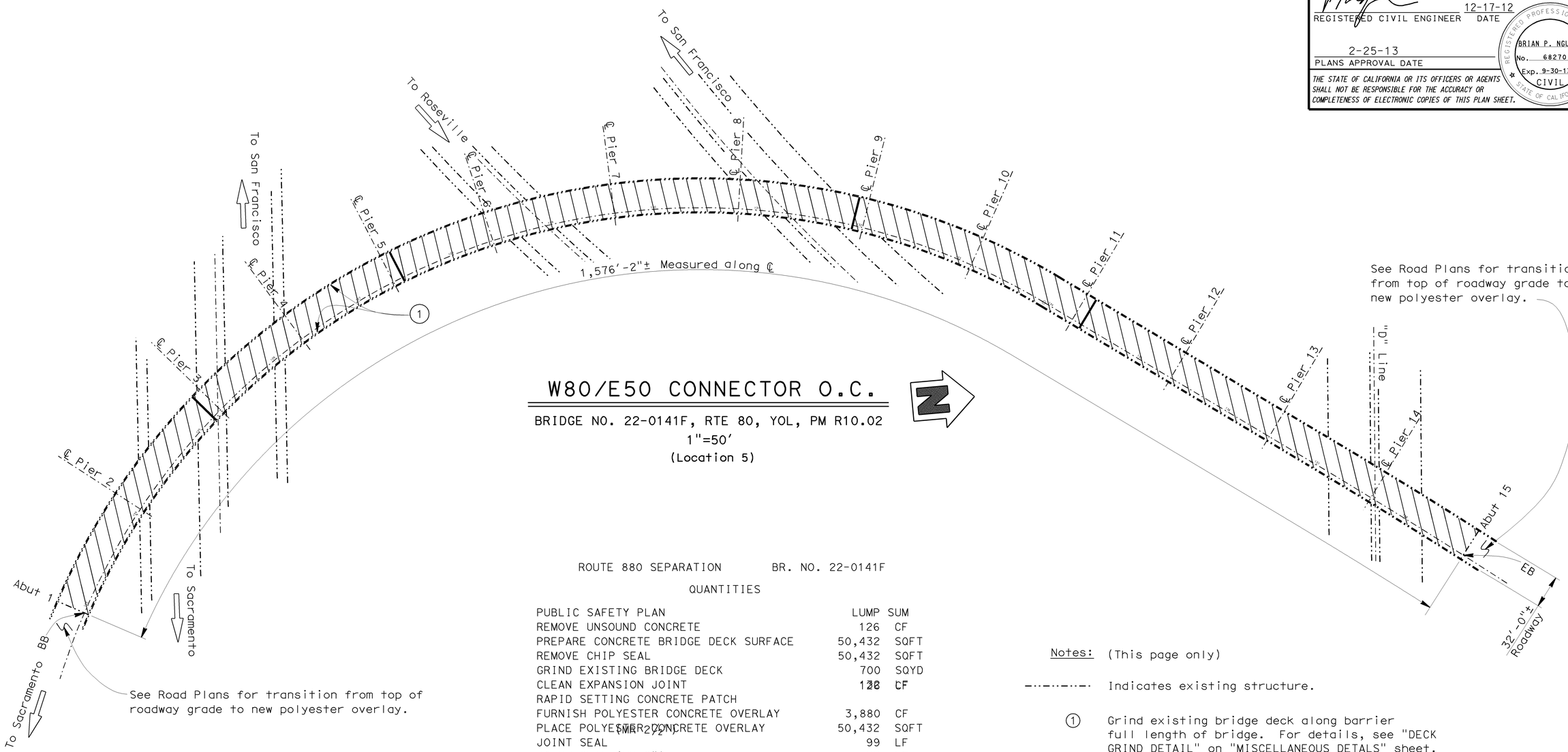

W80/E50 CONNECTOR O.C.

BRIDGE NO. 22-0141F, RTE 80, YOL, PM R10.02
1"=50'
(Location 5)

ROUTE 880 SEPARATION BR. NO. 22-0141F

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
REMOVE UNSOUND CONCRETE	126	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	50,432	SQFT
REMOVE CHIP SEAL	50,432	SQFT
GRIND EXISTING BRIDGE DECK	700	SQYD
CLEAN EXPANSION JOINT	128	CF
RAPID SETTING CONCRETE PATCH		
FURNISH POLYESTER CONCRETE OVERLAY	3,880	CF
PLACE POLYESTER CONCRETE OVERLAY (MR 2 1/2")	50,432	SQFT
JOINT SEAL	99	LF
JOINT SEAL (MR 2")	33	LF

Notes: (This page only)

-·-·-·-·- Indicates existing structure.

(1) Grind existing bridge deck along barrier full length of bridge. For details, see "DECK GRIND DETAIL" on "MISCELLANEOUS DETAILS" sheet.

Indicates limits of clean expansion joint and install new joint seal. For details, see "MISCELLANEOUS DETAILS" sheet.

Indicates limits of remove asphaltic chip seal (1/4"±), prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete, and place new ¾" min depth polyester overlay. For details, see "MISCELLANEOUS DETAILS" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Michael J. Lee 12-17-12
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Franz Espinoza	Brian Nguyen
DETAILS	Trung Lam	Brian Nguyen
QUANTITIES	Franz Espinoza	Brian Nguyen
LAYOUT	Trung Lam	Brian Nguyen
SPECIFICATIONS	Laura Rubalcaba	Laura Rubalcaba (PLANS AND SPECIFICATIONS COMPARED)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 45, 80 & 113 BRIDGES
GENERAL PLAN NO. 3

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000005 1
CONTRACT NUMBER: 03-4M4901

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 12-17-12 01-31-13 5-28-12 6-22-12 7-02-12

SHEET 3 OF 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SUT,YOL	45,80,113	Var	24	25

REGISTERED CIVIL ENGINEER 12-17-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P. NGUYEN No. 68270 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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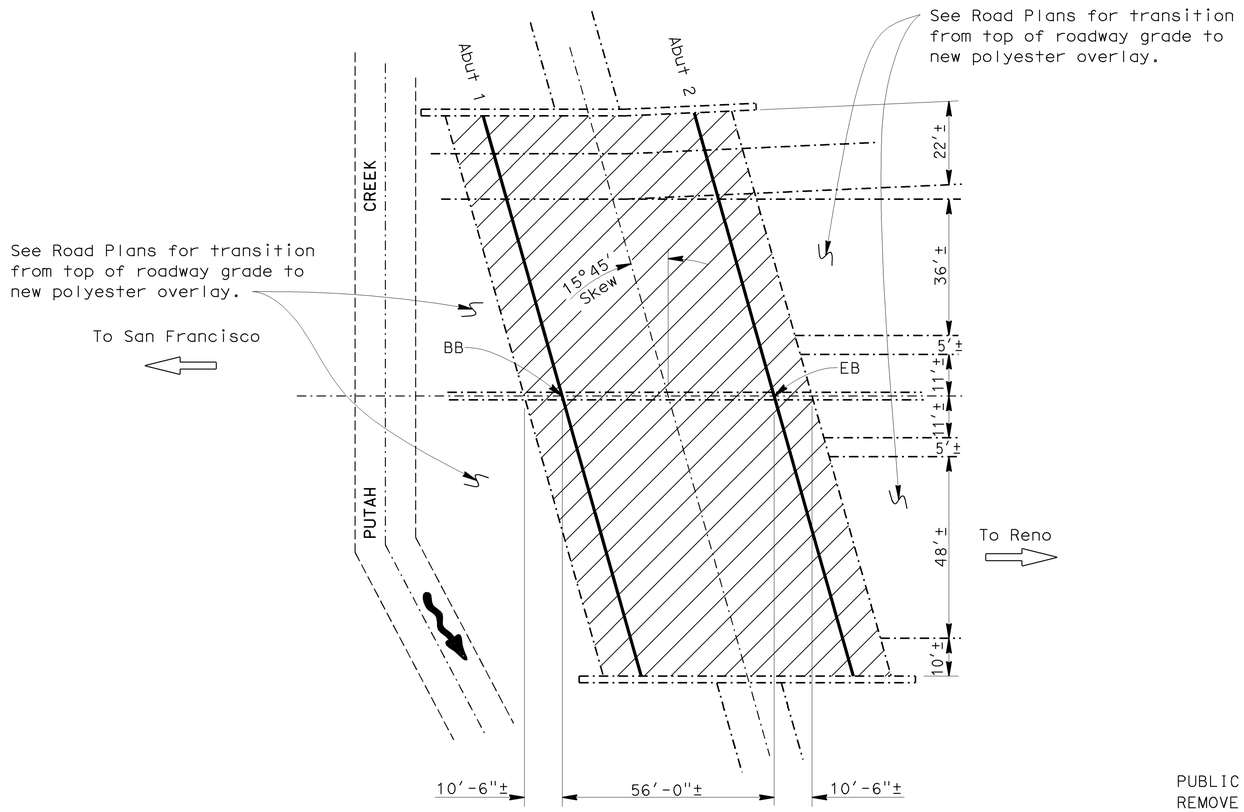

PUTAH CREEK PUC

BRIDGE NO. 22-0194, RTE 80, YOL, PM 0.01
1"=20'
(Location 3)

Notes: (This page only)

-·-·-·- Indicates existing structure.

/ Indicates limits of clean expansion joint and install new joint seal. For details, see "MISCELLANEOUS DETAILS" sheet.

▨ Indicates limits of prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new ¾" min depth polyester overlay. For details, see "MISCELLANEOUS DETAILS" sheet.

PUTAH CREEK PUC BR. NO. 22-0194

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
REMOVE UNSOUND CONCRETE	28	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,240	SQFT
CLEAN EXPANSION JOINT	306	LF
RAPID SETTING CONCRETE PATCH	28	CF
FURNISH POLYESTER CONCRETE OVERLAY	855	CF
PLACE POLYESTER CONCRETE OVERLAY (MR ½")	11,240	SQFT
JOINT SEAL	306	LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Michael J. Lee 12-17-12
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Franz Espinoza	Brian Nguyen
DETAILS	Trung Lam	Brian Nguyen
QUANTITIES	Franz Espinoza	Brian Nguyen
LAYOUT	Trung Lam	Brian Nguyen
SPECIFICATIONS	Laura Rubalcaba	Laura Rubalcaba (PLANS AND SPECIFICATIONS COMPARED)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 45, 80 & 113 BRIDGES
GENERAL PLAN NO. 4

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000005 1
CONTRACT NUMBER: 03-4M4901

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES 4-30-12 5-22-12 7-02-12 12-17-12 01-31-13
SHEET 4 OF 5

FILE => 03-4m4901_04_gp4.dgn

USERNAME => s1212289 DATE PLOTTED => 26-FEB-2013 TIME PLOTTED => 15:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SUT,YOL	45,80,113	Var	25	25

REGISTERED CIVIL ENGINEER 12-17-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P. NGUYEN No. 68270 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)	JOINT REPAIR: REMOVE UNSOUND CONCRETE AND PLACE RAPID SETTING CONCRETE PATCHES		
								APPROXIMATE DEPTH (INCHES)	APPROXIMATE WIDTH (INCHES)	APPROXIMATE LENGTH (FEET)
RICHARDS BLVD OC	22-0077 *	ABUT 1	BB	1	101.0	No	12	3	4	5
		ABUT 3	EB	1½	101.0	No	12	3	4	5
RTE W80/E50 CONNECTOR OC	22-0141F *	SPAN 2	H	2	33.0	No	12	3	4	5
		SPAN 5	H	2½	33.0	No	12	3	4	5
		SPAN 8	H	2½	33.0	No	12	3	4	5
		SPAN 11	H	2½	33.0	No	12	3	4	5
PUTAH CREEK PUC	22-0194	ABUT 1	BB	½	153.0	No	12	3	4	5
		ABUT 2	EB	½	153.0	No	12	3	4	5

LEGEND:
- BB = PAVING NOTCH AT BEGINNING OF BRIDGE
- EB = PAVING NOTCH AT END OF BRIDGE
- H = HINGE
- * = REQUIRES TYPE B COMPRESSION JOINT SEAL

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND PLACE RAPID SETTING CONCRETE PATCHES

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
RICHARDS BLVD OC	22-0077	1	3
RTE W80/E50 CONNECTOR OC	22-0141F	1	3
PUTAH CREEK PUC	22-0194	1	3

LOCATIONS TO BE DETERMINED BY THE ENGINEER.
FOR DETAILS SEE "DECK REPAIR DETAIL".

THE FOLLOWING NOTE APPLIES TO JOINT SEAL TYPE A:

Install type a joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see RSP B6-21

THE FOLLOWING NOTES APPLY TO JOINT SEAL TYPE B:

1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the engineer.

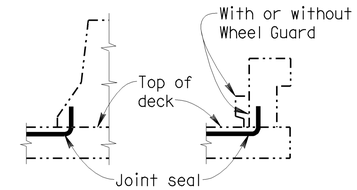
3) W1 shall be the smaller of the values determined as follows:

   a) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.

   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.

4) Bend type b joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

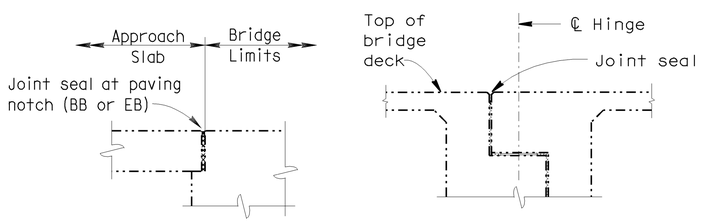
5) For details not shown see RSP B6-21



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

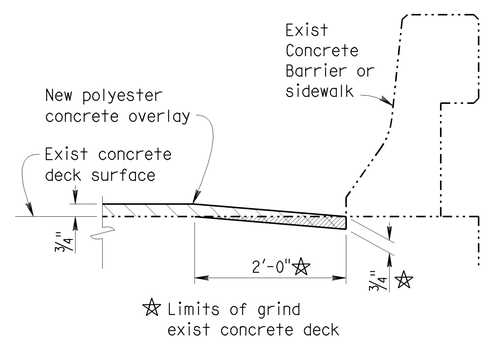
DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL JOINT.
NO SCALE



ABUTMENT HINGE

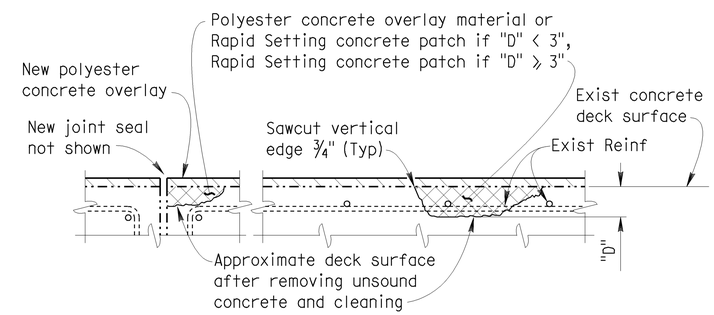
JOINT SEAL LOCATION

NO SCALE



DECK GRIND DETAIL

NO SCALE



JOINT AND DECK REPAIR DETAIL

LOCATIONS TO BE DETERMINED BY THE ENGINEER.
REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL.
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY	CHECKED
DESIGN	Franz Espinoza	Brian Nguyen
DETAILS	Trung Lam	Brian Nguyen
QUANTITIES	Franz Espinoza	Brian Nguyen

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 45, 80 & 113 BRIDGES
MISCELLANEOUS DETAILS

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000005 1
CONTRACT NUMBER: 03-4M4901

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES 12-17-12 01-31-13 5-28-12 6-22-12 7-02-12

SHEET 5 OF 5

FILE => 03-4m4901_05_misc_dets.dgn

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