

INDEX OF PLANS

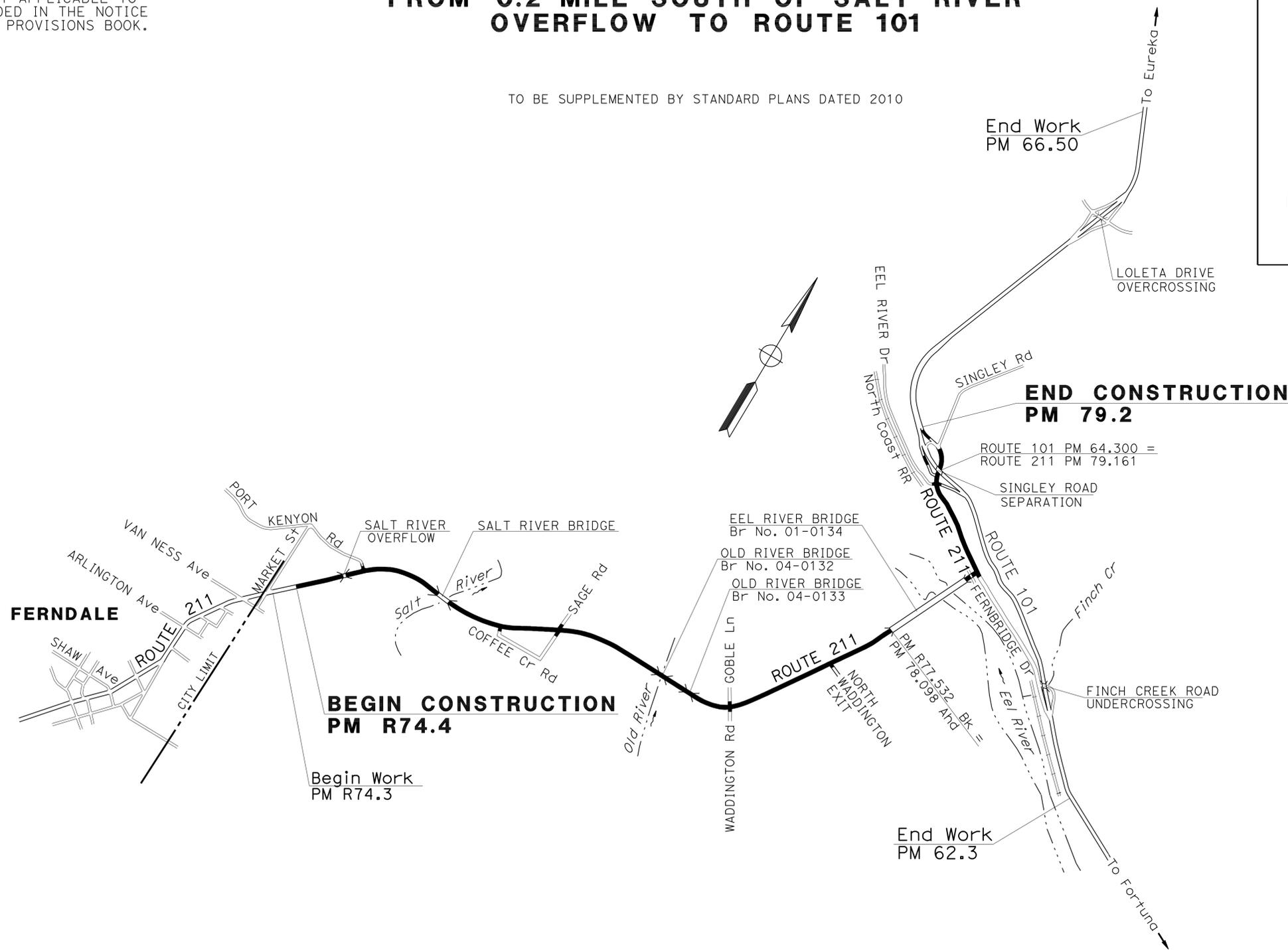
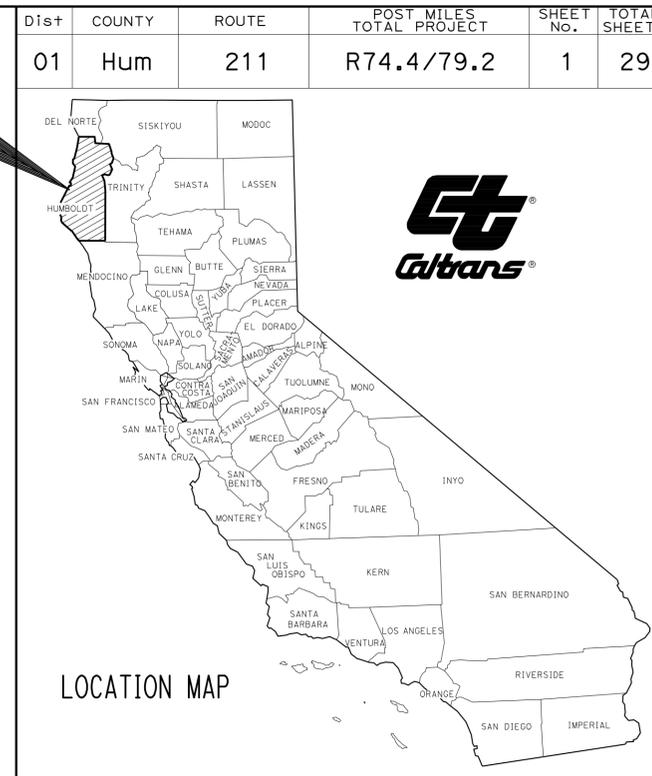
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	TYPICAL CROSS SECTION
4-9	CONSTRUCTION DETAILS
10	CONSTRUCTION AREA SIGNS
11-16	DETOUR PLAN AND QUANTITIES
17-18	PAVEMENT DELINEATION QUANTITIES
19	SUMMARY OF QUANTITIES
20	ELECTRICAL PLAN
21-27	TEMPORARY TRAFFIC CONTROL SYSTEM
28-29	NEW OR REVISED STANDARD 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**  
**ACSTP-S211(002)E**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**

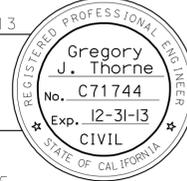
**IN HUMBOLDT COUNTY NEAR FERNDALE**  
**FROM 0.2 MILE SOUTH OF SALT RIVER**  
**OVERFLOW TO ROUTE 101**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER  
**Royal B. McCarthy**  
 DESIGN ENGINEER  
**Royal B. McCarthy**

PROJECT ENGINEER  
 REGISTERED CIVIL ENGINEER  
 DATE 1/24/13  
 January 24, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE



USERNAME => s121671  
 DGN FILE => 10a150ab001.dgn

CONTRACT No.	<b>01-0A1504</b>
PROJECT ID	<b>0100020020</b>

DATE PLOTTED => 25-FEB-2013  
 TIME PLOTTED => 13:03  
 LAST REVISION: 00-00-00

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

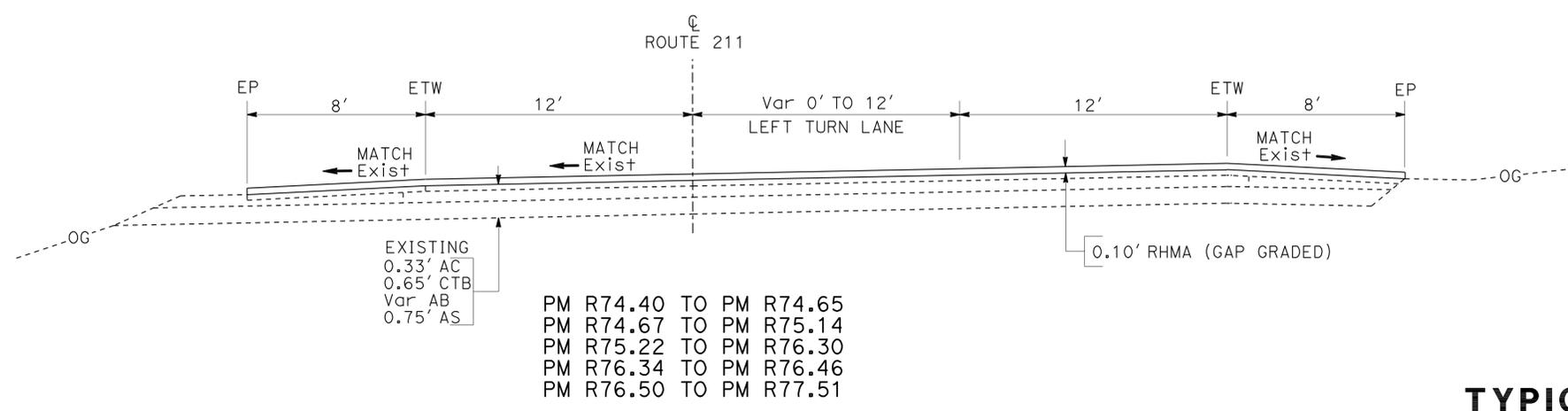
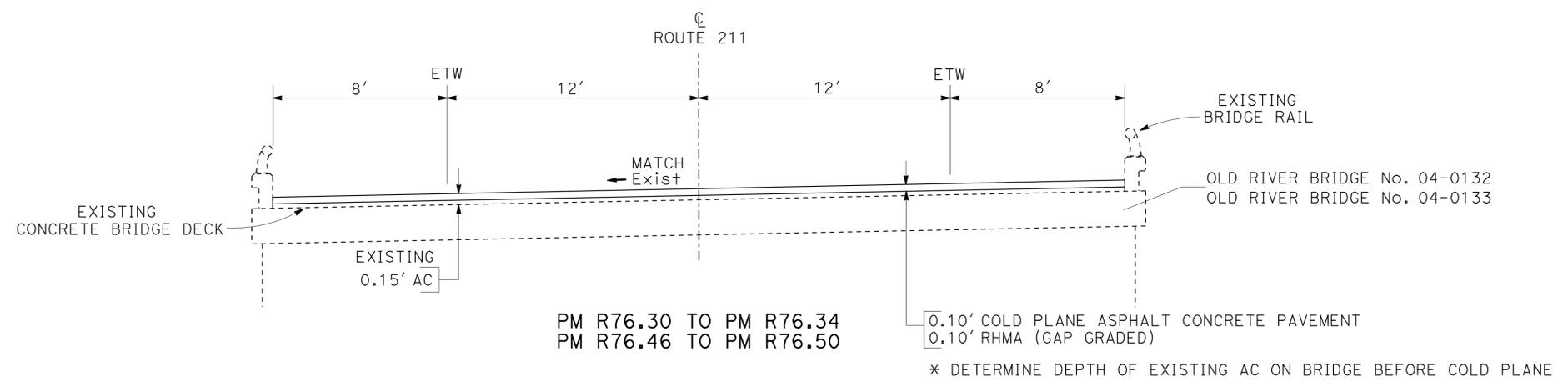
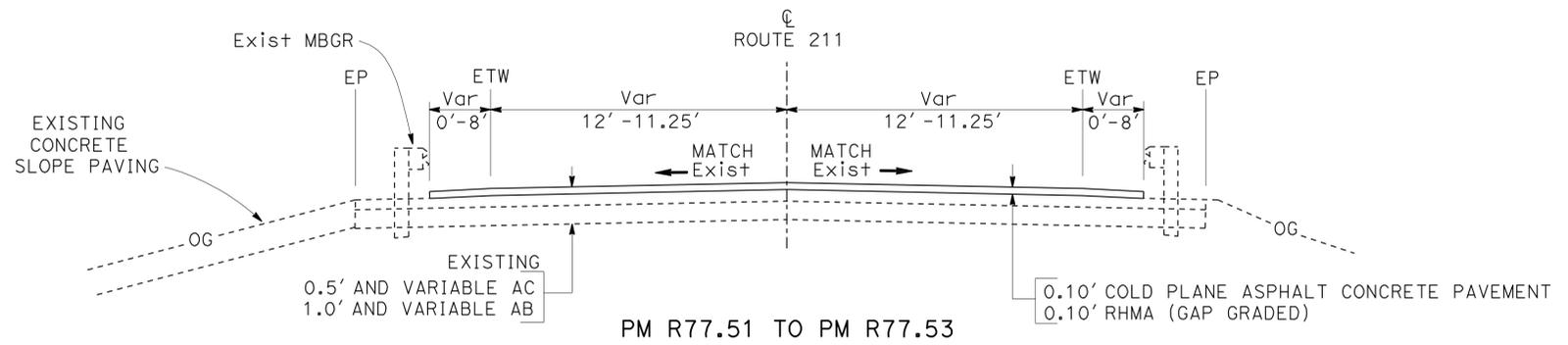
- NOTES:**
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
  2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
  3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	2	29

REGISTERED CIVIL ENGINEER DATE 1/24/13  
 January 24, 2013  
 PLANS APPROVAL DATE

GREGORY J. THORNE  
 No. C71744  
 Exp. 12-31-13  
 CIVIL

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.



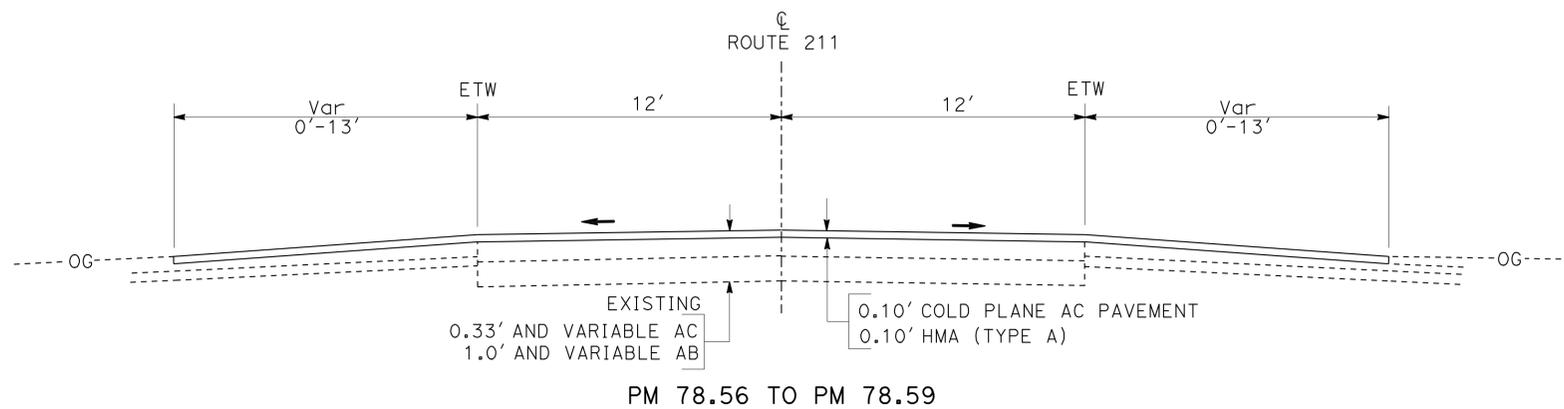
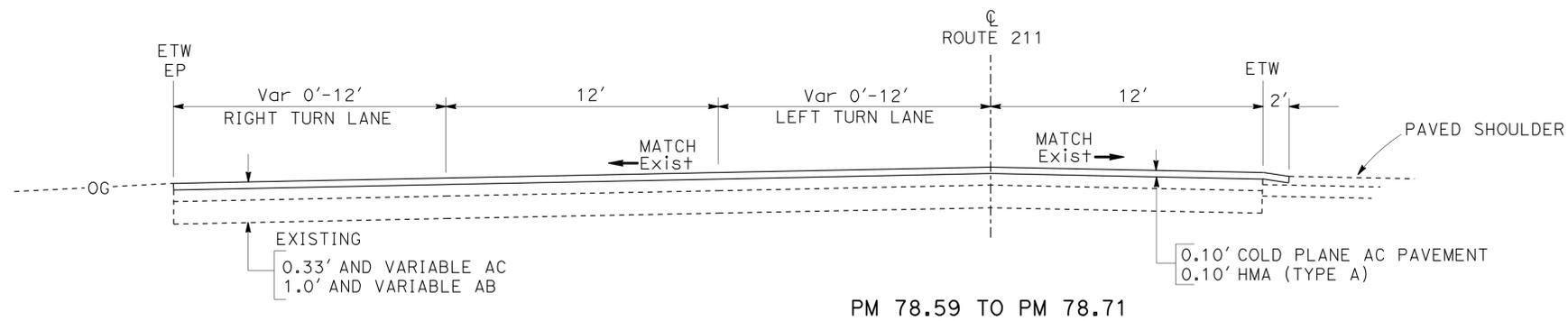
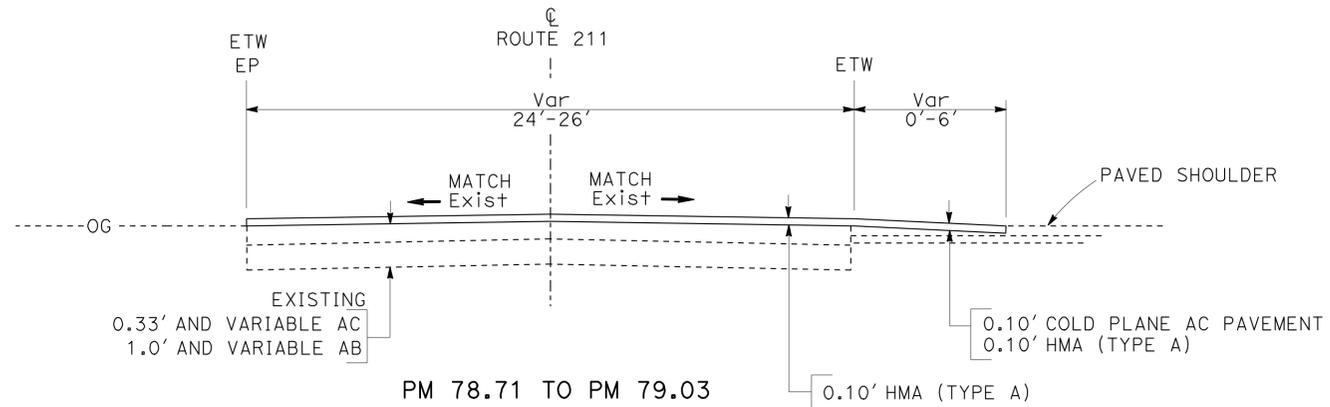
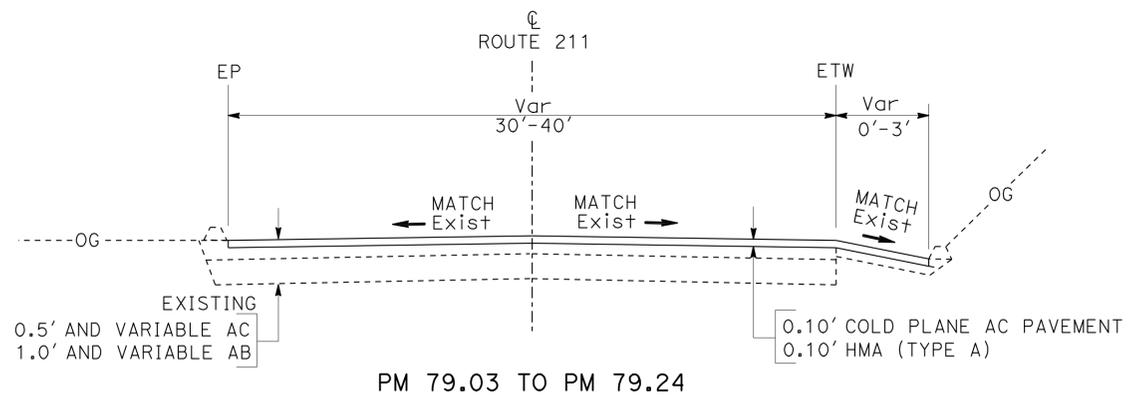
**TYPICAL CROSS SECTIONS X-1**

LAST REVISION DATE PLOTTED => 25-FEB-2013 00-00-00 TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	3	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER

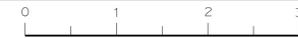
January 24, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**TYPICAL CROSS SECTION X-2**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> MAINTENANCE DESIGN	BY	
FUNCTIONAL SUPERVISOR	CHECKED BY	
Royal B. McCarthy	DESIGNED BY	
Gregory J. Thorne	DESIGNED BY	
Gregory J. Thorne	REVISOR	
	DATE	



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	4	29

REGISTERED CIVIL ENGINEER DATE 1/24/13  
 January 24, 2013  
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL

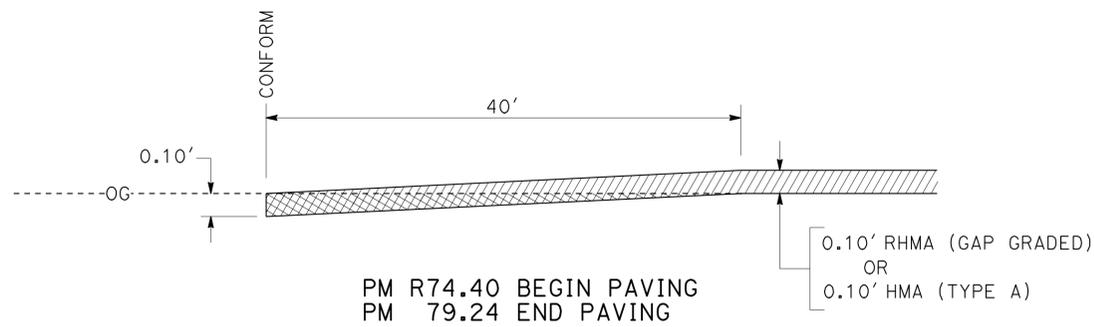
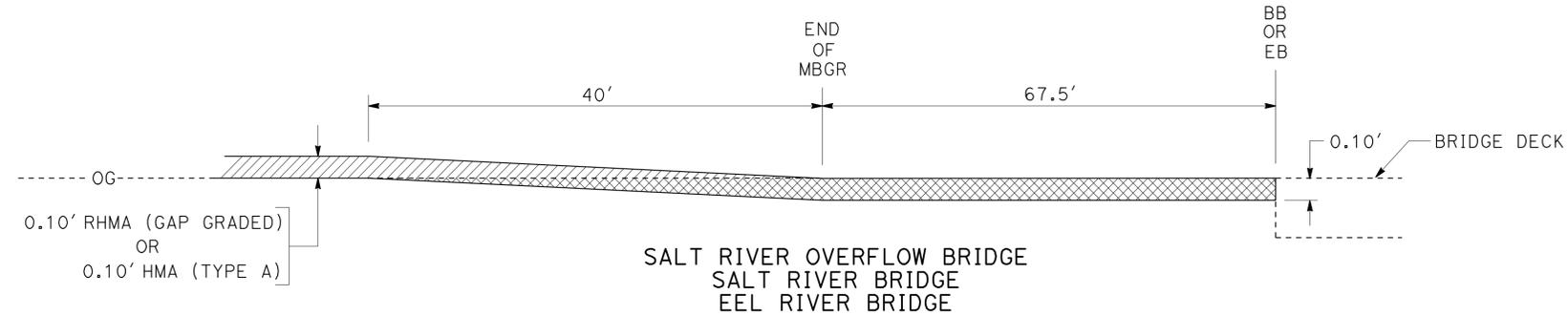
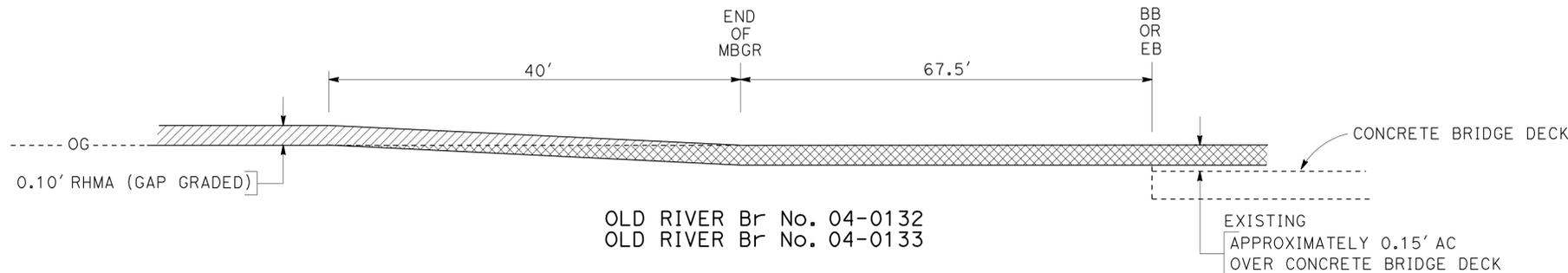
**NOTES:**

- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- DETERMINE DEPTH OF EXISTING AC ON BRIDGE DECKS BEFORE COLD PLANING

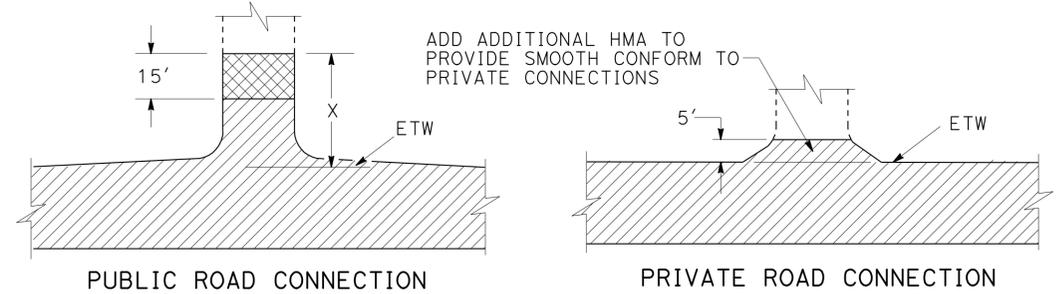
**LEGEND**

- LIMITS OF PAVING
- LIMITS OF COLD PLANE AC PAVEMENT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: Gregory J. Thorne  
 CHECKED BY: Gregory J. Thorne  
 REVISED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISIONS: \_\_\_\_\_



PUBLIC ROAD CONNECTIONS			
LOCATION	PM		X
			FT
PORT KENYON ROAD	R74.80	L+	85
COFFEE CREEK ROAD	R75.51	R+	90
SAGE ROAD	R75.78	L+	70
COFFEE CREEK ROAD	R75.78	R+	95
GOBLE LANE	R76.69	L+	40
WADDINGTON ROAD	R76.69	R+	115
NORTH WADDINGTON ROAD	R77.21	R+	65
FERNBRIDGE DRIVE	78.59	R+	75
EEL RIVER DRIVE	79.08	L+	80



**LIMITS OF COLD PLANE AC PAVEMENT AND PAVING AT ROAD CONNECTIONS**

**LIMITS OF COLD PLANE AC PAVEMENT**

**CONSTRUCTION DETAILS C-1**

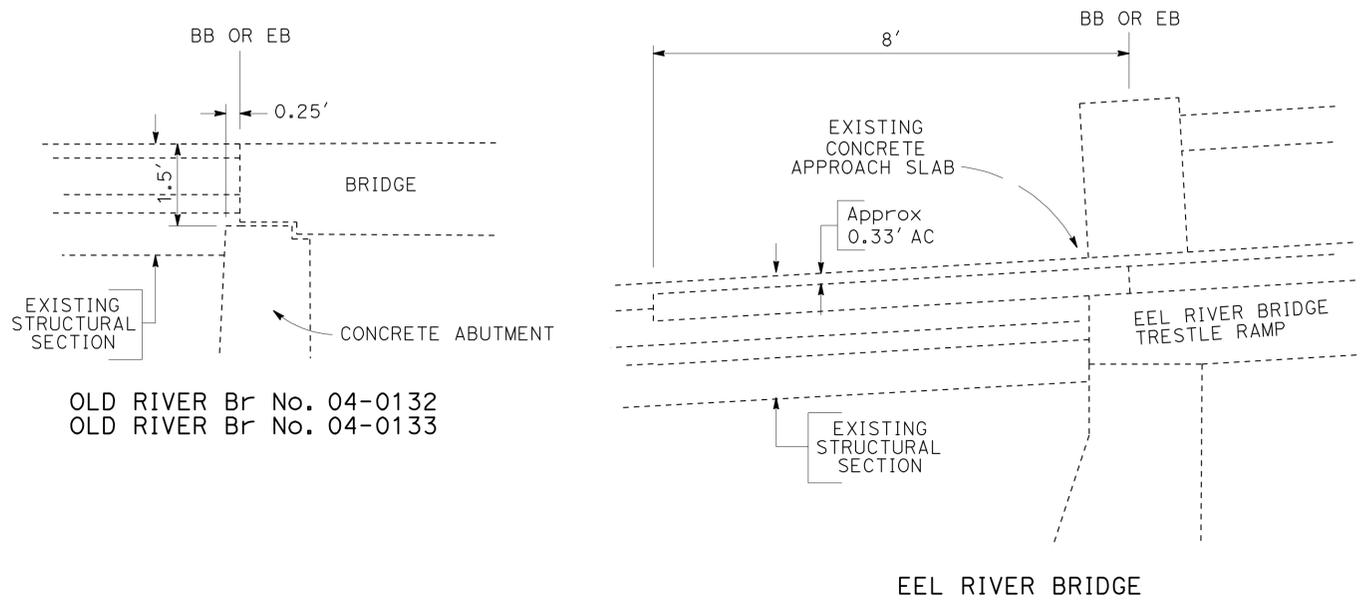
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: Gregory J. Thorne  
 CHECKED BY: Gregory J. Thorne  
 REVISOR: Gregory J. Thorne  
 DATE: 1/24/13

**NOTES:**

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

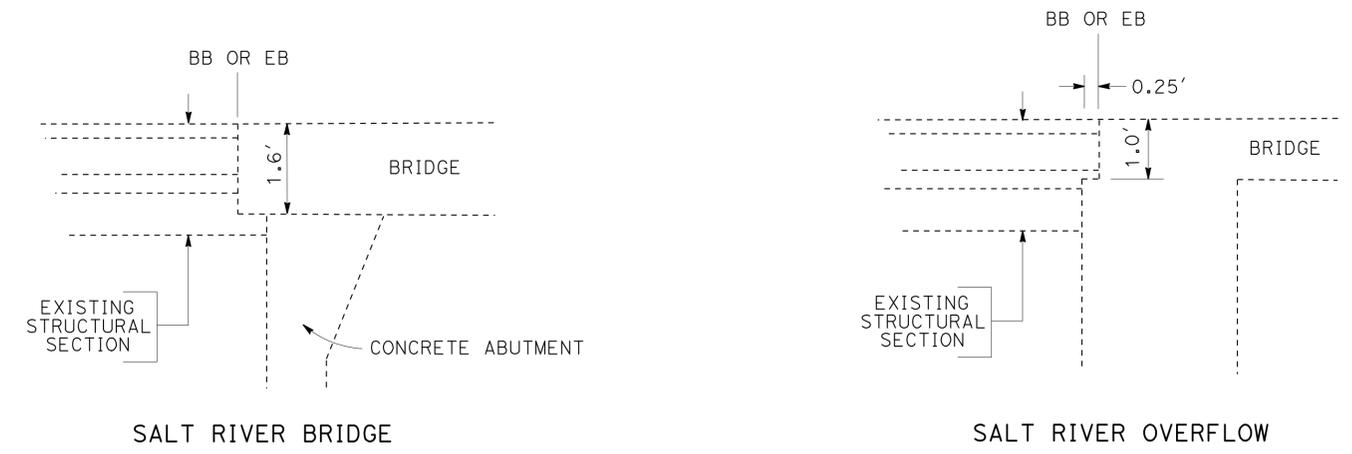
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	5	29

REGISTERED CIVIL ENGINEER: Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 DATE: 1/24/13  
 PLANS APPROVAL DATE: January 24, 2013  
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.



OLD RIVER Br No. 04-0132  
 OLD RIVER Br No. 04-0133

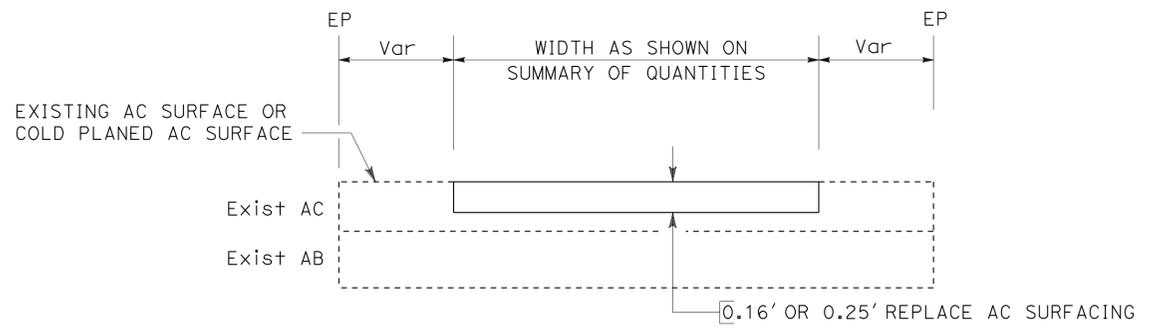
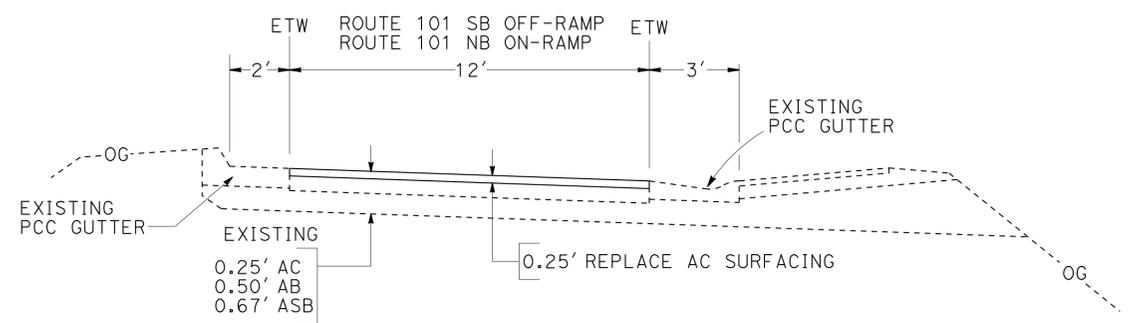
**EEL RIVER BRIDGE**



**SALT RIVER BRIDGE**

**SALT RIVER OVERFLOW**

**EXISTING CONDITIONS AT BB OR EB**



SEE SHEET Q-1 FOR LOCATIONS AND DIMENSIONS

**REPLACE AC SURFACING**

**CONSTRUCTION DETAILS C-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	6	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 January 24, 2013  
 PLANS APPROVAL DATE

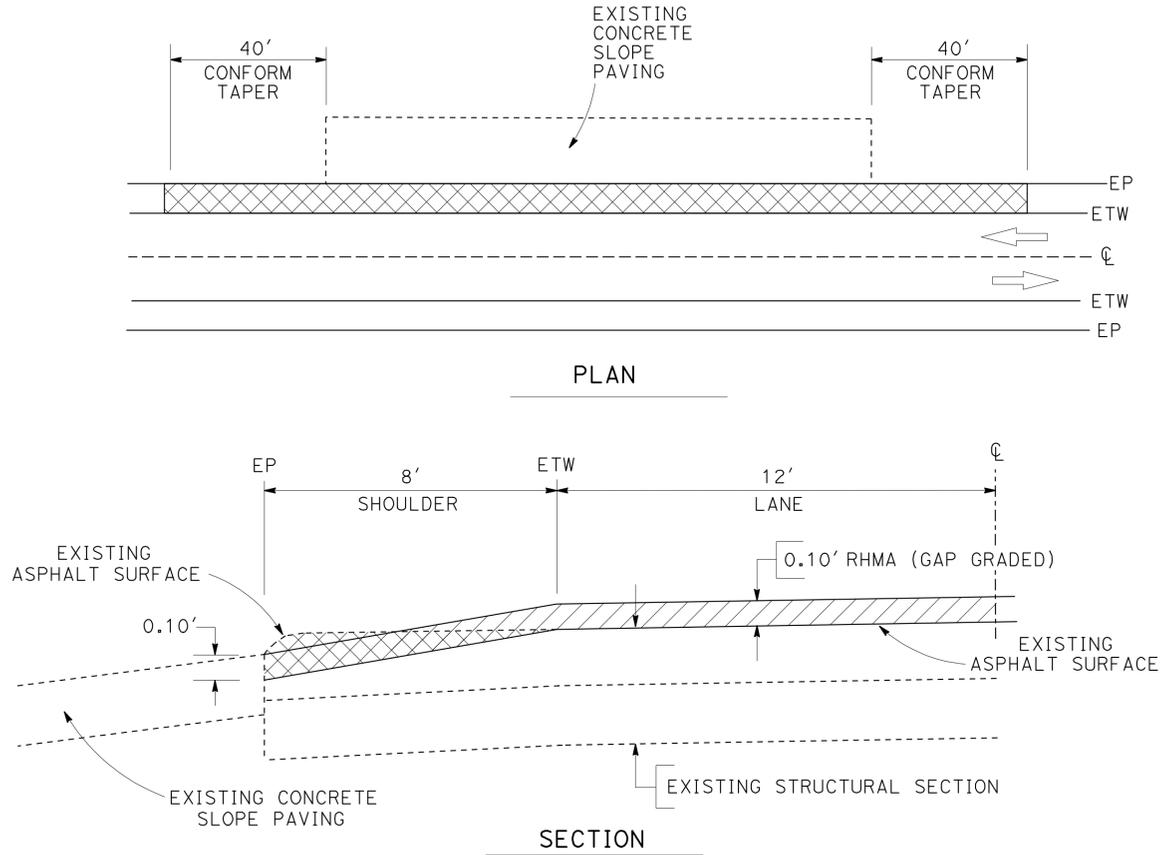
Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL

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:**

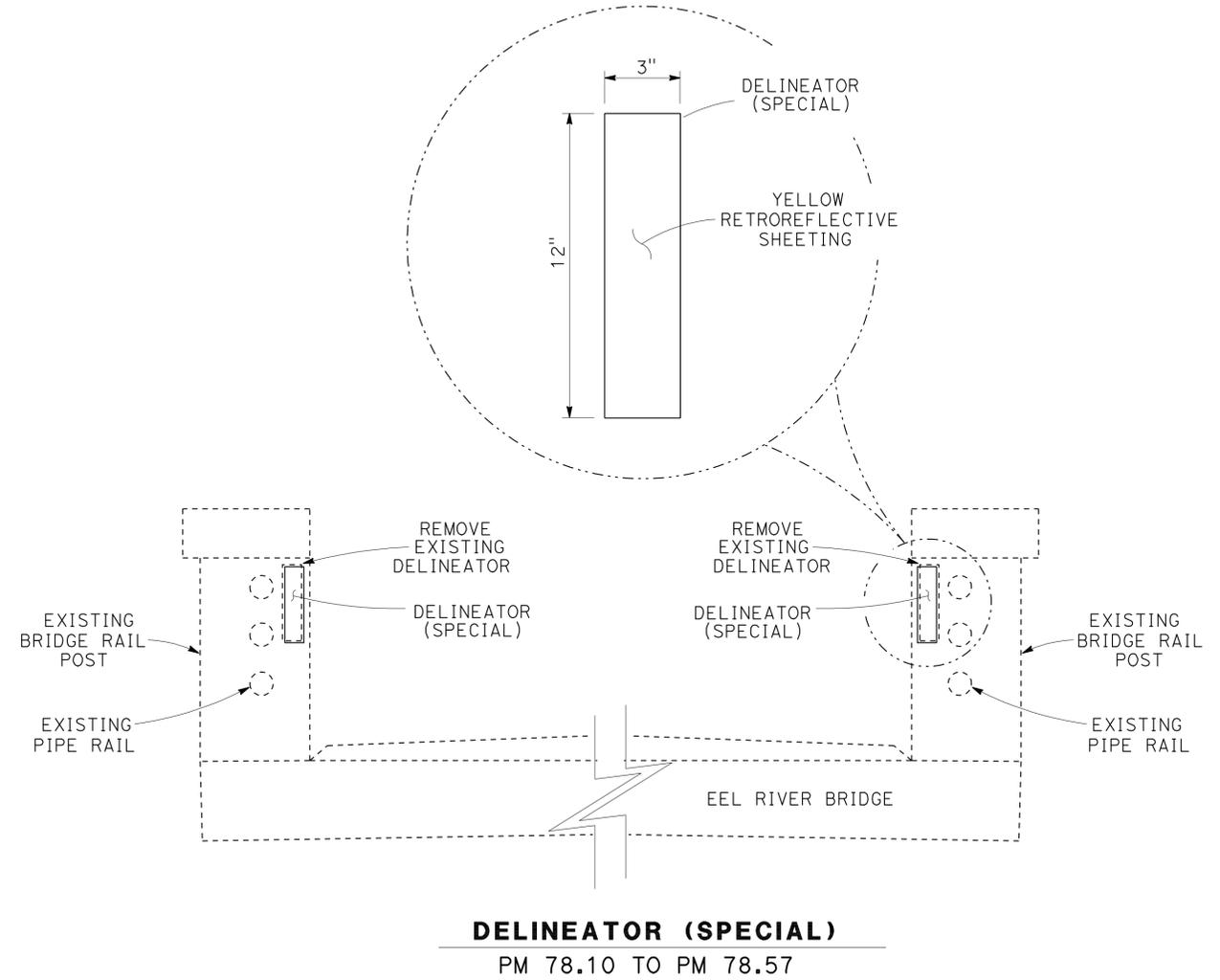
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISIONS: [Blank]  
 REVISOR: Gregory J. Thorne  
 DATE: [Blank]  
 REVISOR: Gregory J. Thorne  
 DATE: [Blank]



**COLD PLANE LIMITS AT CONCRETE SLOPE PAVING**

PM R75.64 TO PM R75.71 L+  
 PM R76.58 TO PM R76.67 L+  
 PM R76.92 TO PM R77.51 L+



**DELINEATOR (SPECIAL)**

PM 78.10 TO PM 78.57

**CONSTRUCTION DETAILS**  
**C-3**

NO SCALE

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

FUNCTIONAL SUPERVISOR  
 Royal B. McCarthy

CALCULATED/DESIGNED BY  
 CHECKED BY

Gregory J. Thorne  
 Gregory J. Thorne

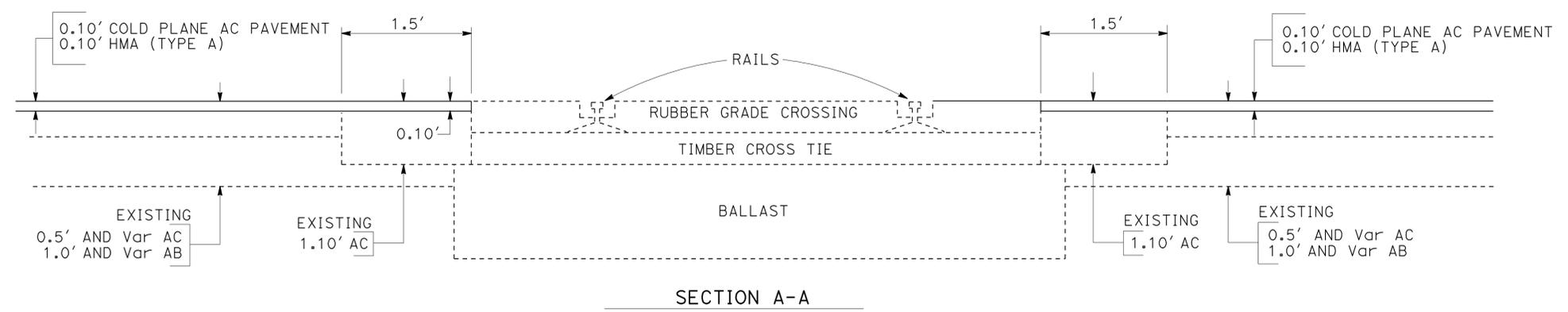
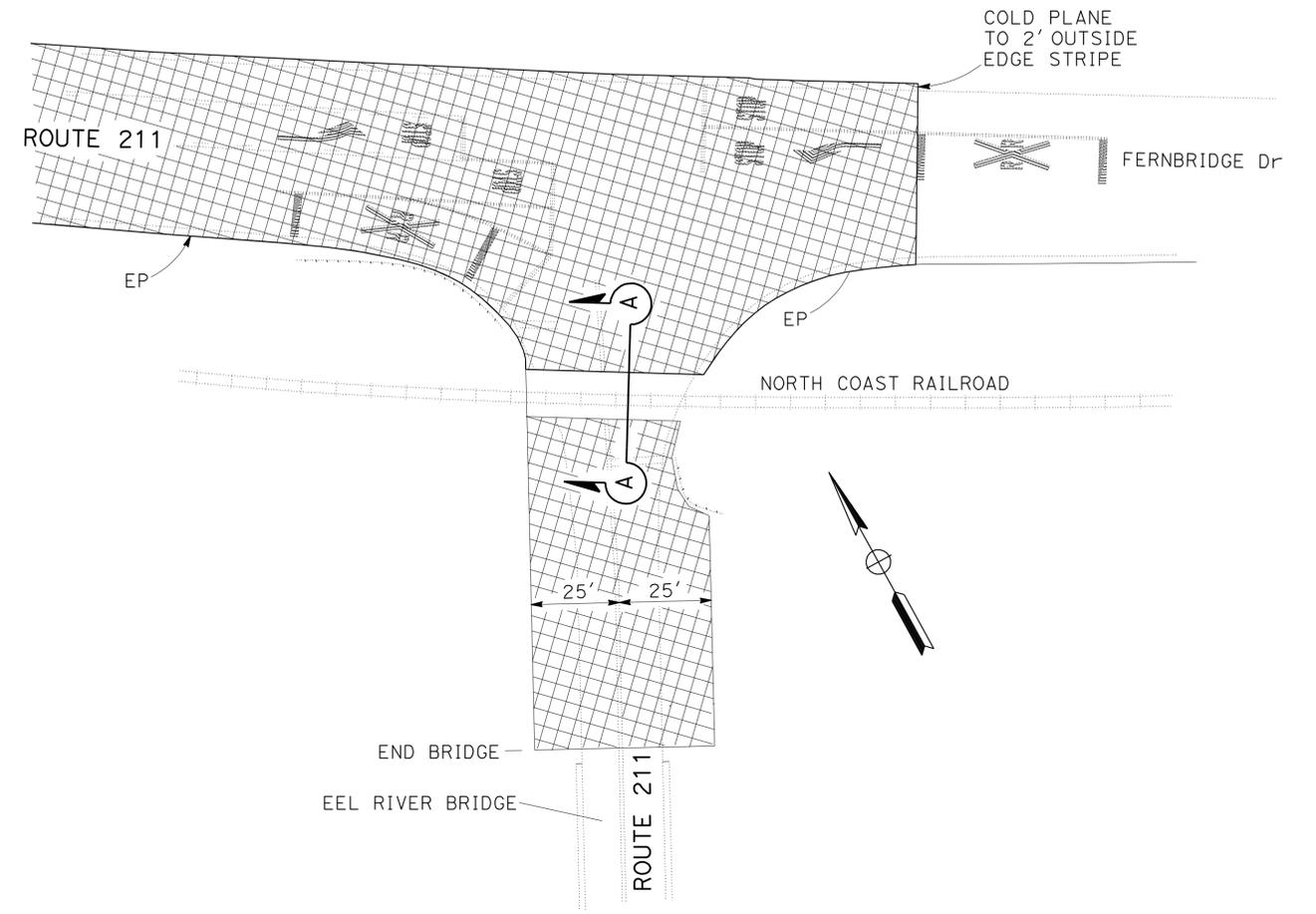
REVISED BY  
 DATE REVISED

**NOTES:**

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	7	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA  
 January 24, 2013  
 PLANS APPROVAL DATE  
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**LIMITS OF COLD PLANE AT RAILROAD CROSSING**

PM 78.58

**CONSTRUCTION DETAILS  
 C-4**

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	8	29

<i>Ralph M. Martielli</i>		1/24/13
REGISTERED CIVIL ENGINEER	DATE	
January 24, 2013		
PLANS APPROVAL DATE		

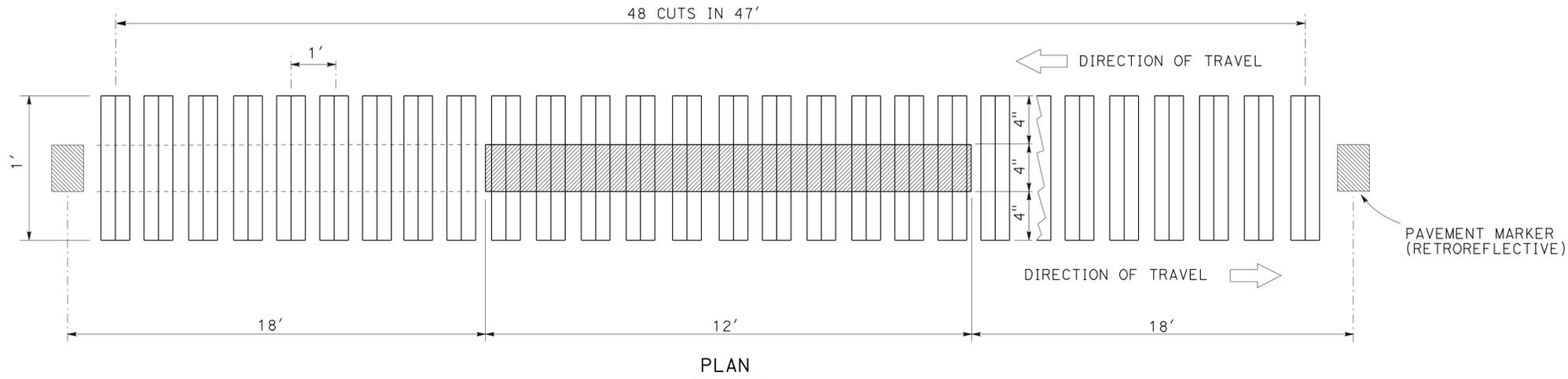
  

REGISTERED PROFESSIONAL ENGINEER	No. 51685
Exp. 6-30-14	CIVIL
STATE OF CALIFORNIA	

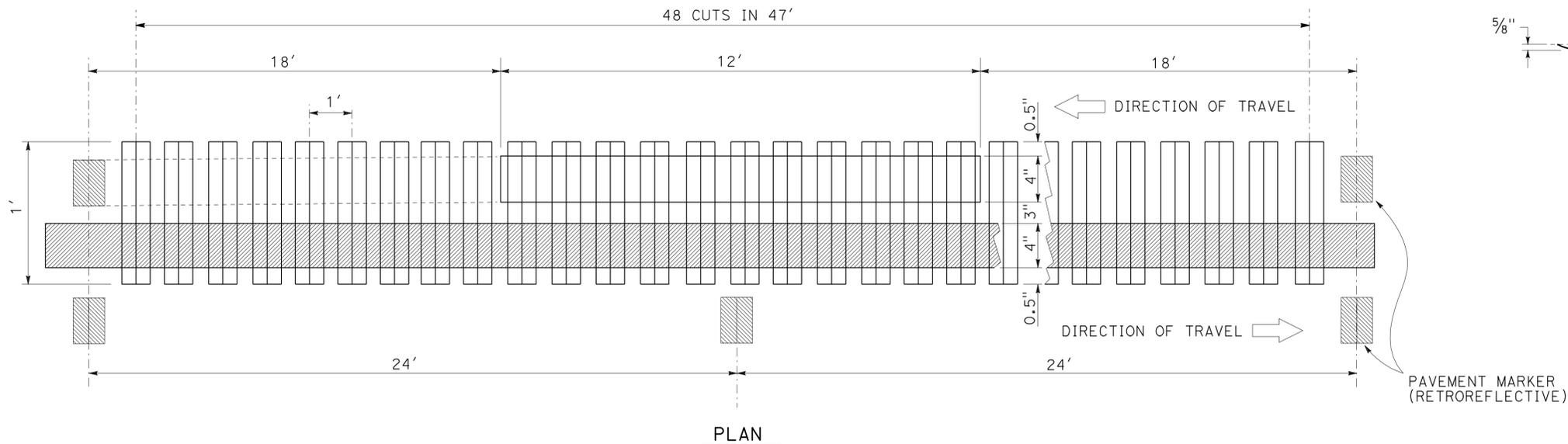
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

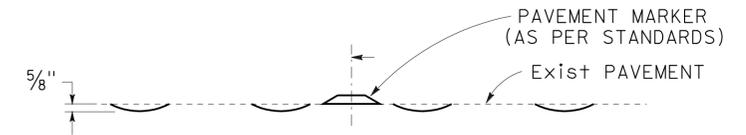
- RUMBLE STRIP, AS SHOWN ON THIS PLAN SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS, BRIDGE APPROACH SLABS, RAMPS, PUBLIC AND PRIVATE ROAD APPROACHES AND MINOR DRIVEWAYS. CONTACT DISTRICT 1 TRAFFIC SAFETY FOR FURTHER INFORMATION.
- FOR 'GROUND-IN RUMBLE STRIP' APPLICATIONS NOT SHOWN, SEE STANDARD PLANS 2010.
- WIDTH OF RUMBLE STRIP VARIES WITH DEPTH.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



**MODIFIED GROUND-IN RUMBLE STRIP/DETAIL 6**



**MODIFIED GROUND-IN RUMBLE STRIP/DETAIL 19**



**CENTER MEDIAN AREA**

**CONSTRUCTION DETAILS  
C-5**

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	9	29

REGISTERED CIVIL ENGINEER DATE 1/24/13  
 R. M. MARTINELLI  
 No. 51685  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

January 24, 2013  
 PLANS APPROVAL DATE

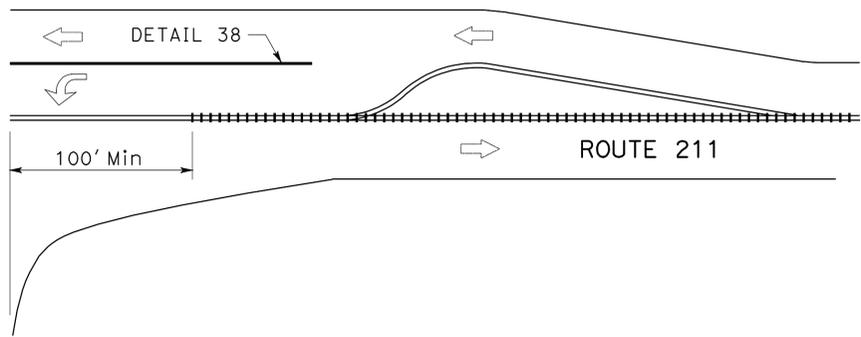
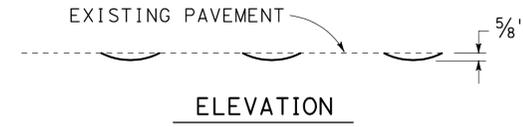
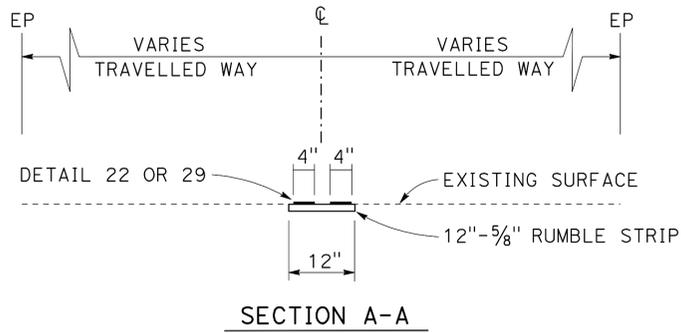
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**NOTES:**

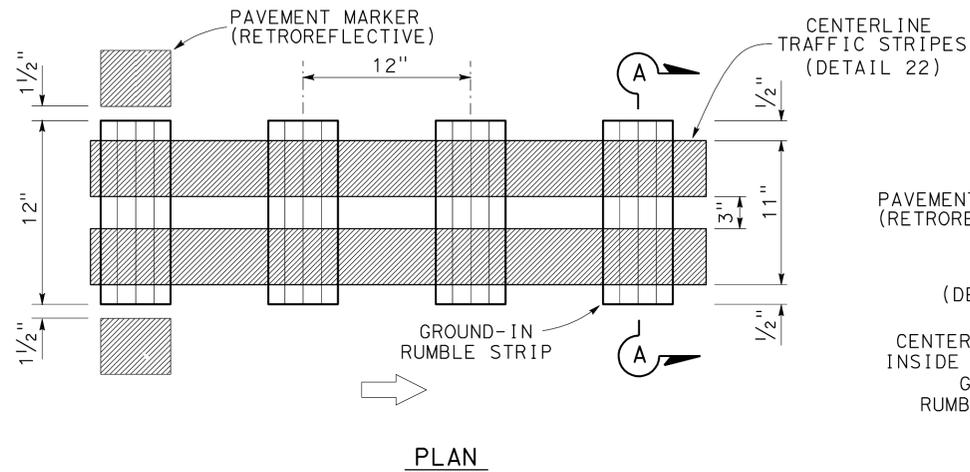
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**LEGEND**

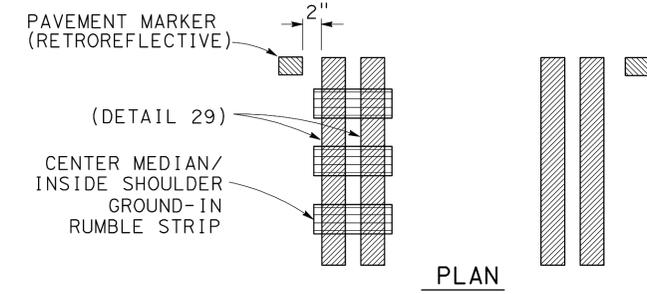
- ➔ DIRECTION OF TRAVEL
- |||||| RUMBLE STRIP (GROUND-IN)



**CENTERLINE RUMBLE STRIP AT LEFT TURN POCKET**

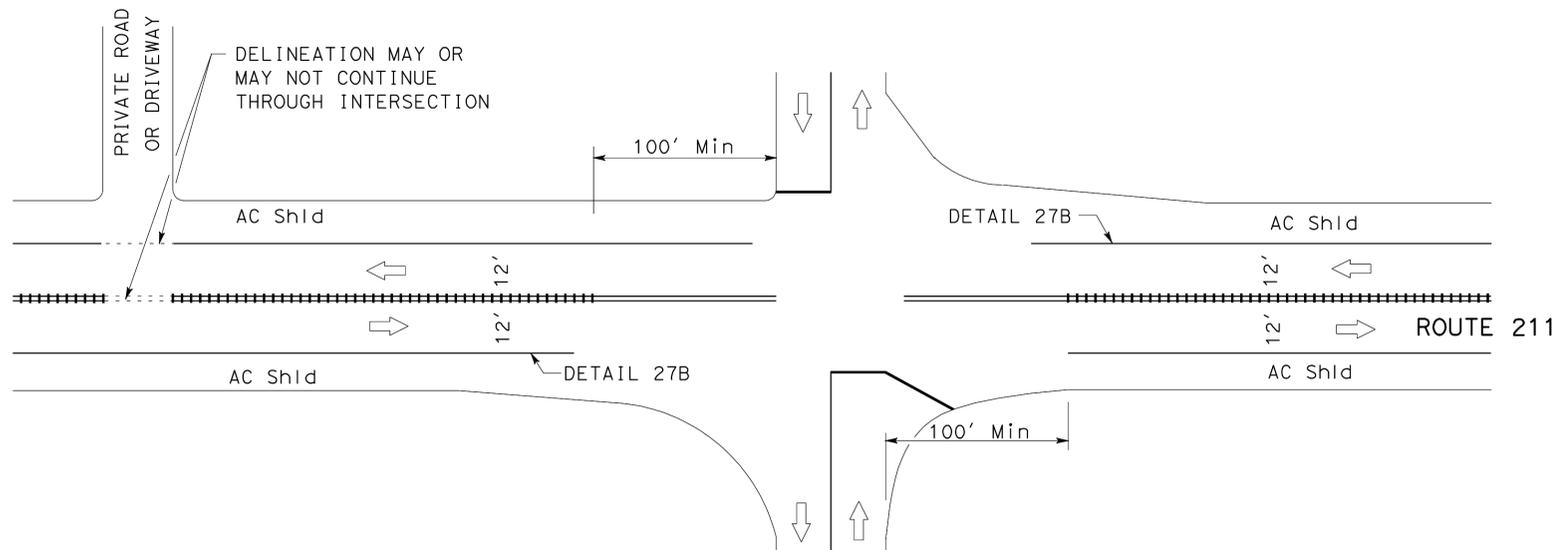


**DETAIL 22**



**DETAIL 29**

**MODIFIED GROUND-IN RUMBLE STRIP / DETAIL 22& 29**



**INTERSECTING ROADS AND DRIVEWAYS**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 TRAFFIC SAFETY  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: Gregory Thorne  
 CHECKED BY: Gregory Thorne  
 REVISIONS: (None listed)  
 REVISIONS: (None listed)  
 REVISIONS: (None listed)  
 REVISIONS: (None listed)  
 REVISIONS: (None listed)

**CONSTRUCTION DETAILS C-6**

NO SCALE

LAST REVISION DATE PLOTTED => 25-FEB-2013  
 00-00-00 TIME PLOTTED => 13:03

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

FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 REVISIONS: REVISOR: Gregory J. Thorne, DATE: 1/24/13  
 CHECKED BY: Gregory J. Thorne

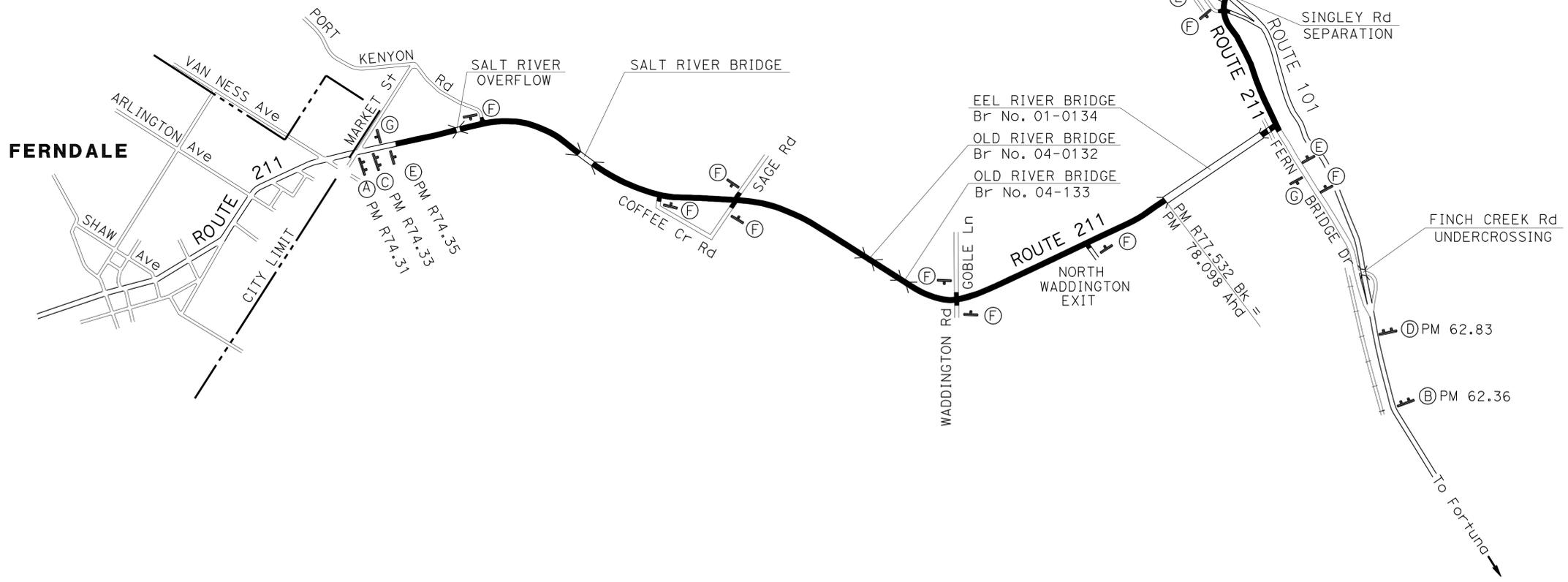
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
(A)	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108"x42"	2 - 6"x6"	1
(B)	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144"x60"	2 - 6"x8"	2
(C)	G20-1	ROAD WORK NEXT 5 MILES	60"x36"	2 - 4"x6"	1
	C23B(CA)	RESURFACING	54"x12"		
(D)	G20-1	ROAD WORK AHEAD ON ROUTE 211	90"x48"	2 - 6"x6"	2
	C23B(CA)	RESURFACING	54"x12"		
	G28-1(CA)	211	24"x18"		
(E)	W11-1	BICYCLE SYMBOL	36"x36"	1 - 4"x6"	3
	W16-1	SHARE THE ROAD	24"x30"		
(F)	W20-1	ROAD WORK AHEAD	36"x36"	1 - 4"x6"	13
(G)	G20-2	END ROAD WORK	36"x18"	1 - 4"x4"	1

NOTES: 1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.  
 2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

G28-1(CA)  
 24"x18"  
 8" CAPS  
 WHITE/GREEN



C23B(CA)  
 54"x12"  
 6" CAPS  
 BLACK/ORANGE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	10	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA  
 January 24, 2013  
 PLANS APPROVAL DATE  
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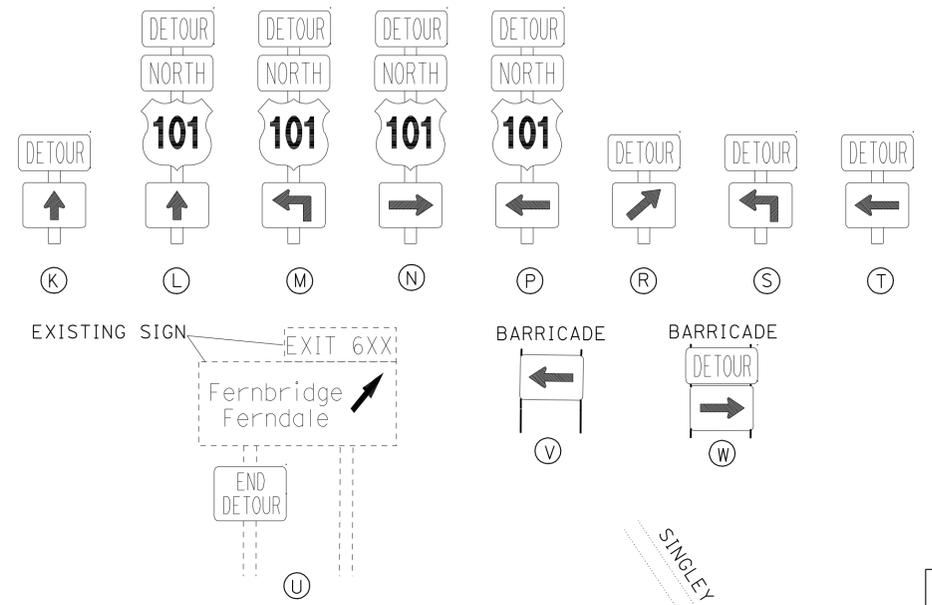
**CONSTRUCTION AREA SIGNS CS-1**

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

REVISOR: Gregory J. Thorne  
 DATE: 1/24/13  
 CHECKED BY: Gregory J. Thorne  
 DESIGNED BY: Royal B. McCarthy

- NOTES:**
- COVER ALL DETOUR RELATED SIGNS WHEN NOT IN USE
  - PLACE SAND BAGS ON BARRICADES
  - EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER
  - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**LEGEND**  
 PCMS = PORTABLE CHANGEABLE MESSAGE SIGN



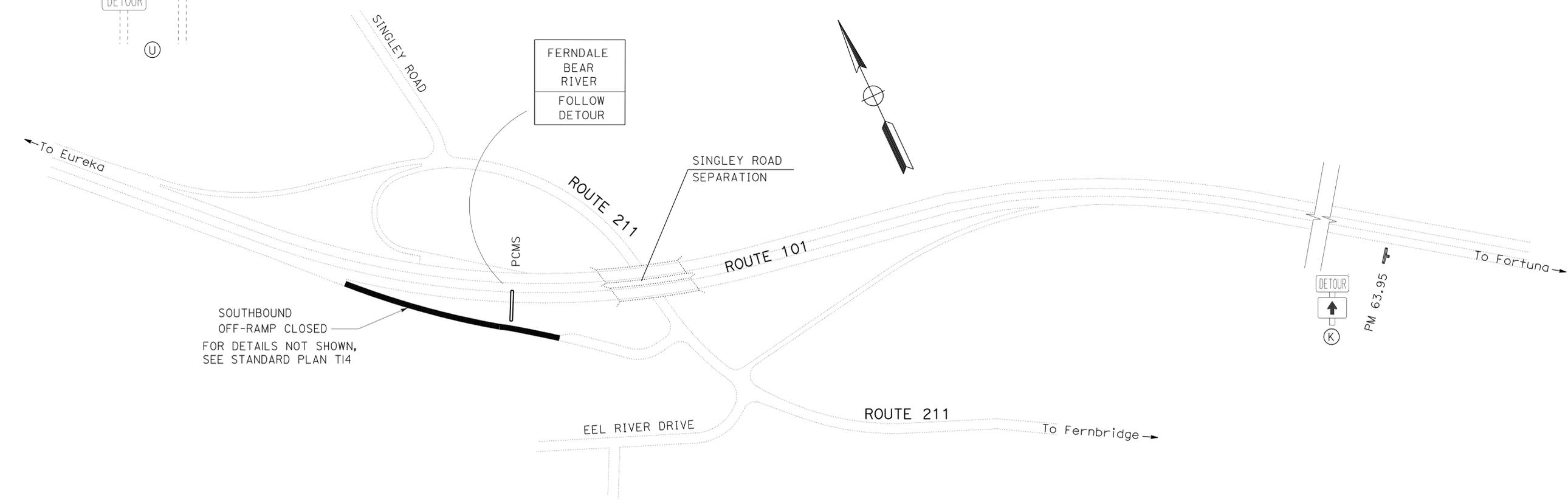
DETOUR SIGNS						
SIGN INSTALLATION	SIGN CODE FEDERAL	SIGN MESSAGE	PANEL SIZE	COLOR	NUMBER OF POSTS AND SIZE OR BARRICADE TYPE	NUMBER OF SIGNS
K	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x4"	6
	M6-3	ARROW	21"x15"	BLACK/WHITE		6
L	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x6"	2
	M3-1	NORTH	24"x12"	BLACK/WHITE		2
	M1-4	101	24"x24"	BLACK/WHITE		2
	M6-3	ARROW	21"x15"	BLACK/WHITE		2
M	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x6"	1
	M3-1	NORTH	24"x12"	BLACK/WHITE		1
	M1-4	101	24"x24"	BLACK/WHITE		1
	M5-1	ARROW	21"x15"	BLACK/WHITE		1
N	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x6"	4
	M3-1	NORTH	24"x12"	BLACK/WHITE		4
	M1-4	101	24"x24"	BLACK/WHITE		4
	M6-1	ARROW	21"x15"	BLACK/WHITE		4
P	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x6"	1
	M3-1	NORTH	24"x12"	BLACK/WHITE		1
	M1-4	101	24"x24"	BLACK/WHITE		1
	M6-1	ARROW	21"x15"	BLACK/WHITE		1
R	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x4"	2
	M6-2	ARROW	21"x15"	BLACK/WHITE		2
S	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x4"	1
T	M5-1	ARROW	21"x15"	BLACK/WHITE	1	1
U	M4-8	DETOUR	24"x12"	BLACK/ORANGE	1-4"x4"	4
	M6-1	ARROW	21"x15"	BLACK/WHITE		4
V	M4-8a	END DETOUR	24"x18"	BLACK/ORANGE	1-4"x4"	2
W	M6-1	ARROW	21"x15"	BLACK/WHITE	TYPE II BARRICADE	1
	M4-8	DETOUR	24"x12"	BLACK/ORANGE	TYPE II BARRICADE	1
	M6-1	ARROW	21"x15"	BLACK/WHITE	TYPE II BARRICADE	1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	11	29

REGISTERED CIVIL ENGINEER  
 DATE: 1/24/13  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA

January 24, 2013  
 PLANS APPROVAL DATE

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



**SB OFF-RAMP CLOSURE AT SINGLEY ROAD SEPARATION**

**DETOUR PLAN AND QUANTITIES DE-1**

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

FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISIONS: [Blank]  
 REVISOR: Gregory J. Thorne  
 DATE: [Blank]

**NOTES:**

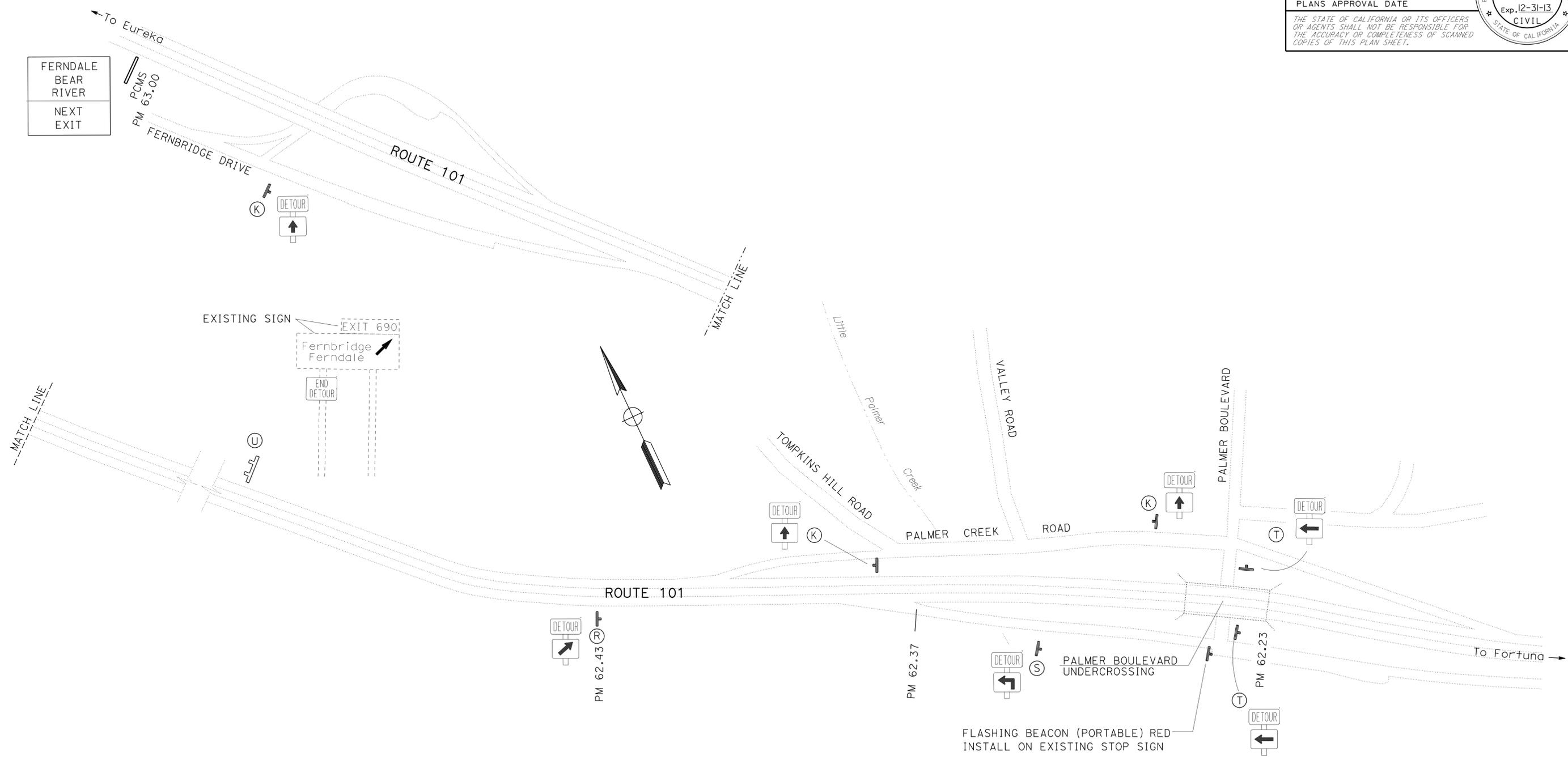
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**LEGEND**

PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	12	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 January 24, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**DETOUR AT PALMER Blvd UNDERCROSSING FOR SB OFF-RAMP CLOSURE AT SINGLEY ROAD SEPARATION**

FLASHING BEACON (PORTABLE) RED  
 INSTALL ON EXISTING STOP SIGN

**DETOUR PLAN DE-2**



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

FUNCTIONAL SUPERVISOR	ROYAL B. MCCARTHY
CALCULATED/DESIGNED BY	GREGORY J. THORNE
CHECKED BY	GREGORY J. THORNE
REVISOR	DATE

**NOTES:**  
 1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

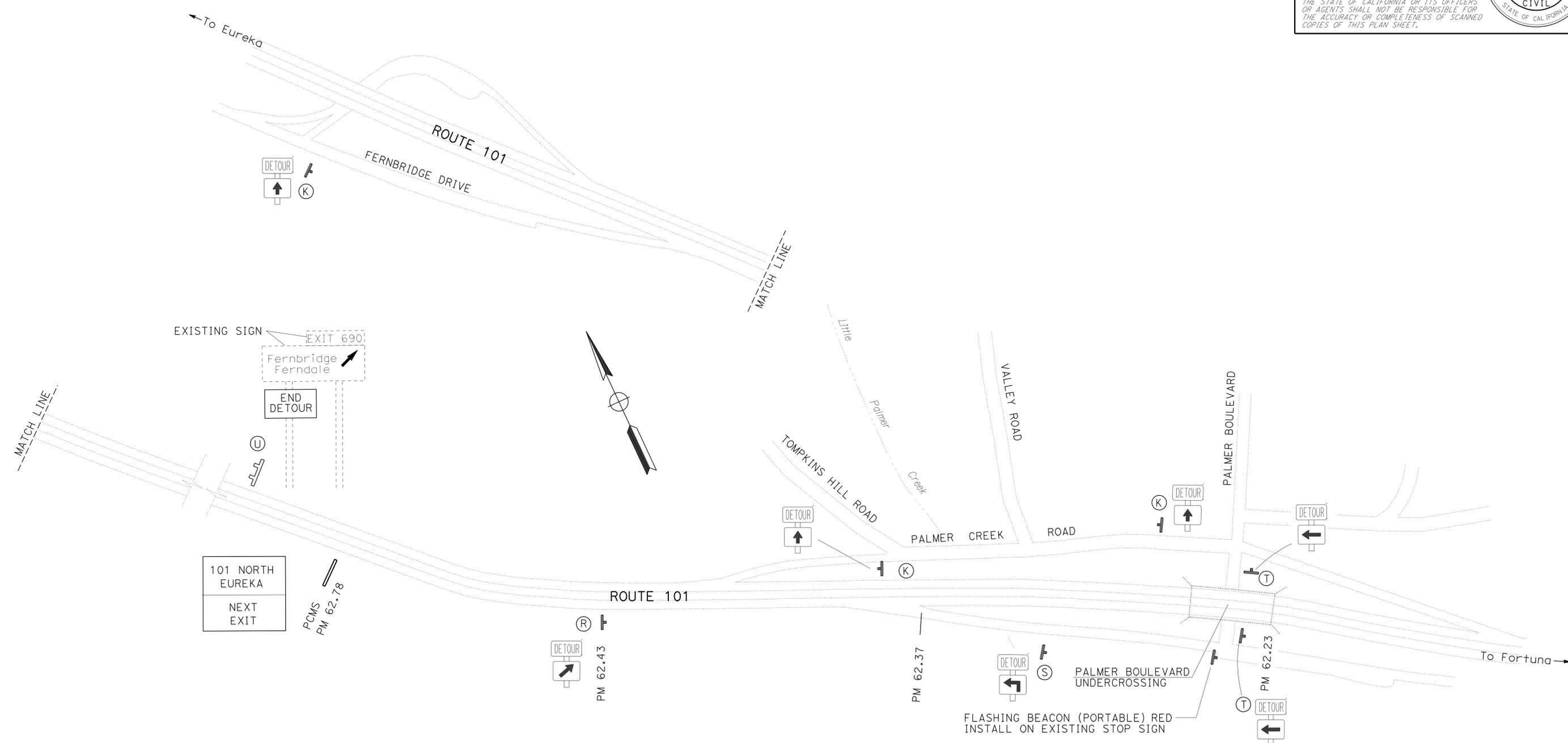
**LEGEND**  
 PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	14	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 January 24, 2013  
 PLANS APPROVAL DATE

GREGORY J. THORNE  
 No. C71744  
 Exp. 12-31-13  
 CIVIL

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.



**DETOUR AT PALMER Blvd UNDERCROSSING FOR NB ON-RAMP CLOSURE AT SINGLEY ROAD SEPARATION**

**DETOUR PLAN DE-4**



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

FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISIONS: [Blank]  
 REVISOR: Gregory J. Thorne  
 DATE: [Blank]

**NOTES:**

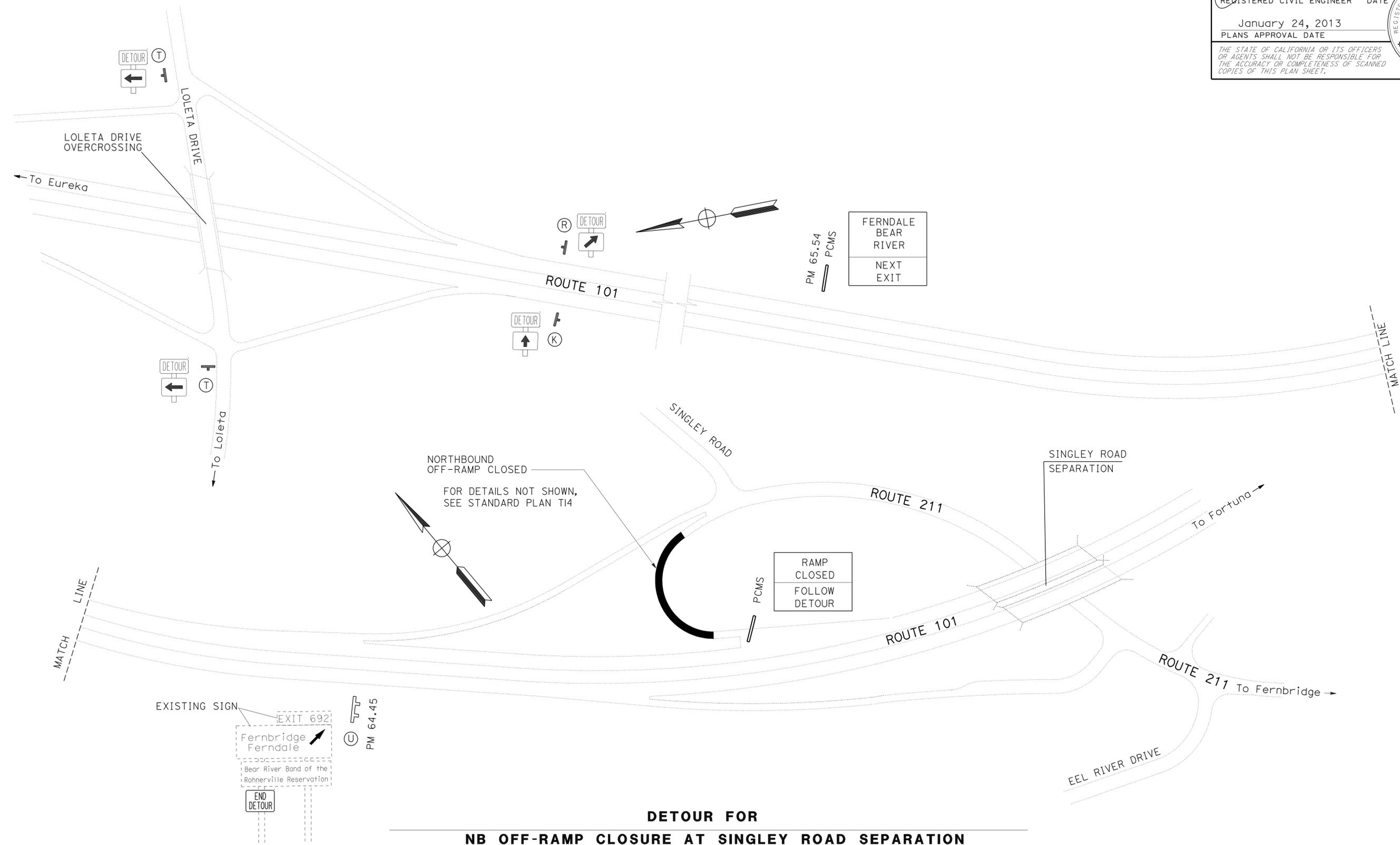
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**LEGEND**

PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	16	29

REGISTERED CIVIL ENGINEER: Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 DATE: 1/24/13  
 PLANS APPROVAL DATE: January 24, 2013  
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.



**DETOUR FOR  
 NB OFF-RAMP CLOSURE AT SINGLEY ROAD SEPARATION**

**DETOUR PLAN  
 DE-6**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	17	29

1/24/13  
 REGISTERED CIVIL ENGINEER DATE  
 Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA  
 January 24, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THERMOPLASTIC TRAFFIC STRIPE AND RUMBLE STRIP														
LOCATION PM		DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE AND RUMBLE STRIP						NON-REFLECTIVE	PAVEMENT MARKER RETROREFLECTIVE			CENTERLINE RUMBLE STRIP
				4-INCH WHITE (BROKEN 12-3)	4-INCH YELLOW (BROKEN 36-12)	4-INCH YELLOW (BROKEN 6-1)	8 INCH SOLID WHITE	4 INCH SOLID YELLOW	4 INCH SOLID WHITE	TYPE AY YELLOW	TYPE D YELLOW (TWO WAY)	TYPE G CLEAR (ONE WAY)	TYPE H YELLOW (ONE WAY)	
FROM	TO			LF						EA			STA	
R74.38	R74.68	6	1813		1813						62			18.1
R74.40	R74.76	27B	2150						2150					
R74.40	R75.47	27B	5760						5760					
R74.68	R74.77	19L	445		445			445			10		20	4.5
R74.76	R74.79	27C	225	225										
R74.77		22	75					150			8			
R74.77	R74.79	38A	110				110							
R74.78	R74.80	38	196				196					9		
R74.78	R75.48	22	3670					7340			308			36.7
R74.40	R75.76	27B	5285						5285					
R75.47	R75.50	27C	135	135										
R75.49	R75.73	27B	1315						1315					
R75.49		22	73					146			8			
R75.49	R75.76	22	1426					2851			121			14.3
R75.73	R75.79	27C	290	290										
R75.75	R75.79	27C	280	280										
R75.76		22	126					252			13			
R75.78	R76.66	27B	4726						4726					
R75.77	R75.89	22	650					1300			56			6.5
R75.80	R76.68	27B	4640						4640					
R75.89	R76.35	6	2432		2432						62			24.3
R76.35	R76.51	19L	852		852			852			19		37	8.5
R76.51	R76.67	22	833					1666			71			8.3
R76.66	R76.70	27C	450	450										
R76.67		22	136					272			13			
R76.69	R77.20	27B	2720						2720					
R76.68	R76.69	22	40					80			5			0.4
R76.69	R76.90	19R	1153		1153			1153			25		49	11.5
R76.72	R77.53	27B	4370						4370					
R76.90	R77.01	6	557		557						62			5.6
R77.01	R77.09	19L	409		409			409			10		18	4.1
R77.09	R77.10	22	94					188			10			0.9
R77.10	R77.19	29	457					1828			40			9.1
R77.18	R77.23	27C	240	240										
R77.20		22	92					184			10			
R77.22	R77.53	27B	1585						1585					
R77.21	R77.23	38	138				138					7		
R77.21	R77.23	22	142					284			14			1.4
R77.23	R77.33	29	485					1940			42			9.7
R77.33	R77.53	22	1041					2082			89			10.4
78.10	78.59	27B	2765						2765					
78.10	79.10	27B	5295						5295					
78.10	78.57	21 + 23	2545					5090	1068		214			
78.58	78.59	38	230				230					11		
78.59	78.60	41	70			70								
78.59	78.60	38A	80				80							
78.59	78.64	32	221		442			442			20			
78.60	79.10	27B	2940						2940					
78.64	78.71	29	331					1324			30			
78.71	79.09	22	2043					4086			172			
79.09	79.12	27C	310	310										
79.10		22	60					120			7			
79.11	79.24	27B	690						690					
79.11	79.16	27B	965						965					
79.11	79.14	22	158					317			15			
79.12	79.15	27C	150	150										
79.14	79.24	27B	530						530					
79.24	79.30	27B	870						870					
79.24	79.30	25A	870					870					37	
79.15	79.24	22	475					950			42			
79.17	79.31	27B	750						750					
79.24	79.43	27B	631						631					
79.24	79.24	25A	631					631					27	
SUBTOTAL								37252	47987		1558		27	188
TOTAL				2080	8103	70	754	85239	1068		1773			174.3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: Gregory J. Thorne  
 CHECKED BY: Gregory J. Thorne  
 REVISED BY: DATE REVISIONS

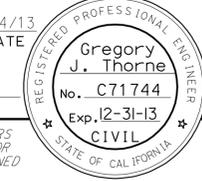
# PAVEMENT DELINEATION QUANTITIES PDQ-1

LAST REVISION | DATE PLOTTED => 25-FEB-2013 | TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	18	29

  
 REGISTERED CIVIL ENGINEER DATE 1/24/13  
 January 24, 2013  
 PLANS APPROVAL DATE

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



**PAVEMENT MARKINGS**

LOCATION		THERMOPLASTIC PAVEMENT MARKING	
POST MILE	ORIENTATION	TYPE/LEGEND	AREA SQFT
R74.78	FEBT	STOP	22
R74.78	FEBT	LIMIT LINE	16
R74.79	FEBT	STOP	22
R74.79	FEBT	LIMIT LINE	16
R74.81	FSBT	TYPE III ( R ) ARROW	42
R75.51	FWBT	STOP	22
R75.51	FWBT	LIMIT LINE	32
R75.78	FWBT	STOP	22
R75.78	FWBT	LIMIT LINE	31
R75.78	FEBT	STOP	22
R75.78	FEBT	LIMIT LINE	25
R76.69	FWBT	STOP	22
R76.69	FWBT	STOP	22
R76.69	FWBT	LIMIT LINE	38
R76.69	FEBT	STOP	22
R76.69	FEBT	STOP	22
R76.69	FEBT	LIMIT LINE	48
R77.21	FWBT	STOP	22
R77.21	FWBT	STOP	22
R77.21	FWBT	LIMIT LINE	54
R77.22	FSBT	TYPE III ( L ) ARROW	42
R77.45	FNBT	40	19.5
78.49	FNBT	RXR	114
78.55	FSBT	40	19.5
78.58	FNBT	DOUBLE LIMIT LINE	28
78.58	FSBT	DOUBLE LIMIT LINE	28
78.59	FWBT	STOP	22
78.59	FWBT	STOP	22
78.59	FWBT	LIMIT LINE	27
78.59	FWBT	TYPE III ( L ) ARROW	42
78.59	FWBT	RXR	118
78.59	FSBT	YIELD LINE	18
78.59	FSBT	STOP	22
78.60	FSBT	STOP	22
78.60	FSBT	RXR	114
78.60	FSBT	LIMIT LINE	45
78.61	FSBT	TYPE III ( L ) ARROW	42
78.68	FSBT	40	19.5
78.74	FSBT	AHEAD	31
78.75	FSBT	STOP	22
79.10	FSBT	STOP	22
79.10	FSBT	STOP	22
79.10	FSBT	LIMIT LINE	40
79.14	FSBT	STOP	22
79.14	FSBT	STOP	22
79.14	FSBT	LIMIT LINE	50
79.18	FSBT	AHEAD	31
79.20	FSBT	STOP	22
TOTAL			1592.5

**REMOVE PAVEMENT MARKINGS**

LOCATION		REMOVE THERMOPLASTIC PAVEMENT MARKING	
POST MILE	ORIENTATION	TYPE/LEGEND	AREA SQFT
R74.78	FEBT	STOP	22
R74.78	FEBT	LIMIT LINE	16
R74.79	FEBT	STOP	22
R74.79	FEBT	LIMIT LINE	16
R74.81	FSBT	TYPE III ( R ) ARROW	42
R75.51	FWBT	STOP	22
R75.51	FWBT	LIMIT LINE	32
R75.78	FWBT	STOP	22
R75.78	FWBT	LIMIT LINE	31
R75.78	FEBT	STOP	22
R75.78	FEBT	LIMIT LINE	25
R76.69	FWBT	STOP	22
R76.69	FWBT	STOP	22
R76.69	FWBT	LIMIT LINE	38
R76.69	FEBT	STOP	22
R76.69	FEBT	STOP	22
R76.69	FEBT	LIMIT LINE	48
R77.21	FWBT	STOP	22
R77.21	FWBT	STOP	22
R77.21	FWBT	LIMIT LINE	54
R77.22	FSBT	TYPE III ( L ) ARROW	42
78.49	FNBT	RXR	114
78.55	FSBT	40	19.5
78.74	FSBT	AHEAD	31
78.75	FSBT	STOP	22
TOTAL			772.5

**DELINEATOR**

LOCATION PM		DELINEATOR		REMOVE DELINEATOR	DELINEATOR		REMARKS
FROM	TO	CLASS	TYPE		(CLASS 1)	(SPECIAL)	
R77.48		1	G	2	2		
R77.49		1	G	2	2		
R77.50		1	G	2	2		
R77.51		1	G	2	2		
R77.52		1	G	2	2		
R77.53		1	G	2	2		
79.28		1	G	5	5		
78.10	78.57	SPECIAL		40		40	YELLOW
TOTAL				57	17	40	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: GREGORY J. THORNE  
 CHECKED BY: GREGORY J. THORNE  
 REVISOR: GREGORY J. THORNE  
 DATE REVISOR:

**PAVEMENT DELINEATION QUANTITIES PDQ-2**

LAST REVISION DATE PLOTTED => 25-FEB-2013  
 00-00-00 TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	211	R74.4/79.2	19	29

1/24/13  
 DATE  
 REGISTERED CIVIL ENGINEER  
 January 24, 2013  
 PLANS APPROVAL DATE

Gregory J. Thorne  
 No. C71744  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA

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ROADWAY												
LOCATION PM			LENGTH	WIDTH	DEPTH	HMA (TYPE A)	RHMA (GAP GRADED)	REPLACE ASPHALT CONCRETE SURFACING	TACK COAT	COLD PLANE ASPHALT CONCRETE PAVEMENT	REMOVE ASPHALT CONCRETE PAVEMENT	REMARKS
FROM	TO	NB/SB L+/R+										
			LF			TON		CY	TON	SQYD	SQFT	
R74.40	R74.41		40.0	40	0.10							BEGIN PAVING CONFORM
R74.40	R74.65		1320.0	40			461.0		2.4			MAINLINE
R74.40	R74.65	NB	1320.0	12	0.16			93.9				REPLACE AC SURFACING
R74.40	R74.65	SB	1320.0	12	0.16			93.9				REPLACE AC SURFACING
R74.57		L+	36.0	5			2.7		0.1			DRIVEWAY
R74.57		R+	28.0	5			2.1		0.1			DRIVEWAY
R74.63	R74.65		120.0	40	0.10					533		CONFORM TO SALT R OVERFLOW BR
R74.65	R74.67											SALT RIVER OVERFLOW BR
R74.67	R74.69		120.0	40	0.10					533		CONFORM TO SALT R OVERFLOW BR
R74.67			16.0	24							384	REMOVE ASPHALT FROM BRIDGE DECK
R74.67	R75.14		2482.0	40			868.0		4.6			MAINLINE
R74.67	R75.14	NB	2481.6	12	0.16			176.5				REPLACE AC SURFACING
R74.67	R75.14	SB	2481.6	12	0.16			176.5				REPLACE AC SURFACING
R74.8					0.10		85.0		0.5	78		PORT KENYON RD LT
R74.93		R+	50.0	5			3.8		0.1			DRIVEWAY
R74.94		L+	60.0	5			4.6		0.1			DRIVEWAY
R75.13	R75.15		120.0	40	0.10					533		CONFORM TO SALT RIVER BRIDGE
R75.14	R75.22											SALT RIVER BRIDGE
R75.22	R75.24		120.0	40	0.10					533		CONFORM TO SALT RIVER BRIDGE
R75.22	R76.28		5597.0	40			1957.0		10.4			MAINLINE
R75.22	R76.28	NB	5596.8	12	0.16			398.0				REPLACE AC SURFACING
R75.22	R76.28	SB	5596.8	12	0.16			398.0				REPLACE AC SURFACING
R75.29		L+	70.0	5			5.3		0.1			DRIVEWAY
R75.31		R+	45.0	5			3.4		0.1			DRIVEWAY
R75.48					0.10		31.0		0.2	86		COFFEE CREEK ROAD RT
R75.5		L+	60.0	5			4.6		0.1			DRIVEWAY
R75.64	R75.71		369.6	8	0.10					329		CONFORM TO SLOPE PAVING
R75.78					0.10		38.0		0.2	163		SAGE RD LT
R75.78					0.10		48.0		0.3	96		COFFEE CREEK ROAD RT
R76.13		L+	30.0	5			2.3		0.1			DRIVEWAY
R76.15		L+	35.0	5			2.7		0.1			DRIVEWAY
R76.2		R+	70.0	5			5.3		0.1			DRIVEWAY
R76.21		L+	90.0	5			6.8		0.1			DRIVEWAY
R76.28	R76.36		440.0	40	0.10		154.0		0.8	1956		OLD RIVER 04-0132 AND APPROACHES
R76.36	R76.44	NB	422.4	12	0.16			30.0				REPLACE AC SURFACING
R76.36	R76.44	SB	422.4	12	0.16			30.0				REPLACE AC SURFACING
R76.36	R76.44		422.0	40			148.0		0.8			MAINLINE
R76.44	R76.52		440.0	40	0.10		154.0		0.8	1956		OLD RIVER 04-0133 AND APPROACHES
R76.52	R77.53	NB	5332.8	12	0.16			379.2				REPLACE AC SURFACING
R76.52	R77.53	SB	5332.8	12	0.16			379.2				REPLACE AC SURFACING
R76.52	R77.12		3168.0	40			1108.0		5.9			MAINLINE
R76.58	R76.67		475.2	8	0.10					422		CONFORM TO SLOPE PAVING
R76.69					0.10		31.0		0.2	100		GOBLE LANE LT
R76.69					0.10		50.0		0.3	71		WADDINGTON ROAD RT
R76.92	R77.51		3115.0	8	0.10					2769		CONFORM TO SLOPE PAVING
R77.12	R77.17		264.0	40-52			106.0		0.6			MAINLINE
R77.17	R77.27		528.0	52			240.0		1.3			MAINLINE
R77.21					0.10		49.0		0.3	76		NORTH WADDINGTON RT
R77.27	R77.35		422.0	52-40			170.0		0.9			MAINLINE
R77.35	R77.51		845.0	40		334.0			1.6			MAINLINE
R77.51	R77.53		110.0	40-22.5		43.0			0.2			MAINLINE
R77.53	78.10											EQUATION R77.53=78.10
78.10	78.56											EEL RIVER BRIDGE
78.56	78.59		158.0	50	0.10					878		MAINLINE
78.56	78.59		158.0	50		78.0			0.4			MAINLINE
78.59	78.64		264.0	52	0.10	136.0			0.6	1525		MAINLINE (FERNBRIDGE INTERSECTION)
78.59	78.71	SB	98.0	52	0.10	50.0			0.2	566		FERNBRIDGE DRIVE - ROAD APPROACH
78.59	78.71		633.6	12	0.25			70.4				REPLACE AC SURFACING
78.60	78.64	NB	200.0	12	0.25			22.2				REPLACE AC SURFACING
78.64	78.71		370.0	52-26	0.10	143.0			0.7	1603		MAINLINE
78.71	78.86		792.0	26		203.0			1.4			MAINLINE
78.78	79.03	NB	1320.0	12	0.25			146.7				REPLACE AC SURFACING
78.85	78.97	SB	650.0	12	0.25			72.2				REPLACE AC SURFACING
78.86	78.96		528.0	32	0.10	167.0			0.8	352		MAINLINE W/ WIDE SHOULDER ON RT
78.88		L+	55.0	5		4.2			0.1			DRIVEWAY
78.96	79.03		370.0	28		102.0			0.5			MAINLINE
79.01		R+	100.0	5		7.6			0.1			DRIVEWAY
79.03	79.24		1003.0	30-40	0.10	396.0			16.7	4458		MAINLINE
79.10					0.10	46.0			0.2	107		SB ONRAMP ROUTE 101
79.10					0.10	47.0			0.2	107		EEL RIVER DRIVE
79.10	79.24	SB	350.0	14	0.25			45.4				REPLACE AC SURFACING
79.11	79.13	SB	100.0	12	0.25			11.1				REPLACE AC SURFACING
79.17	79.24	NB	310.0	12	0.25			34.4				REPLACE AC SURFACING
79.24	79.24	NB	545.0	12.2	0.25			126.3				NB ONRAMP TO ROUTE 101
79.24	79.24	SB	600.0	12.2	0.25			139.1				SB OFFRAMP FROM ROUTE 101
			TOTAL			1756.8	5741.6	2823.0	55.3	20008.0	384.0	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 Gregory J. Thorne  
 Gregory J. Thorne  
 Royal B. McCarthy

# SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC ELECTRICAL

- NOTES:**
1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  2. EXACT LOCATION OF LOOP DETECTORS TO BE DETERMINED BY THE ENGINEER.
  3. LABEL LOOP DETECTORS WITH DIRECTION AND LANE NUMBER.
  4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

- LEGEND:**
- 1 INSTALL NEW TYPE A LOOP DETECTORS AND DETECTOR HANDHOLES.
  - 2 RC EXISTING .
  - 3 OVERHEAD SERVICE DROP BY UTILITY COMPANY.
  - 4 INSTALL NEW 334 ON MODIFIED CABINET FOUNDATION.  
 EXISTING CABINET.

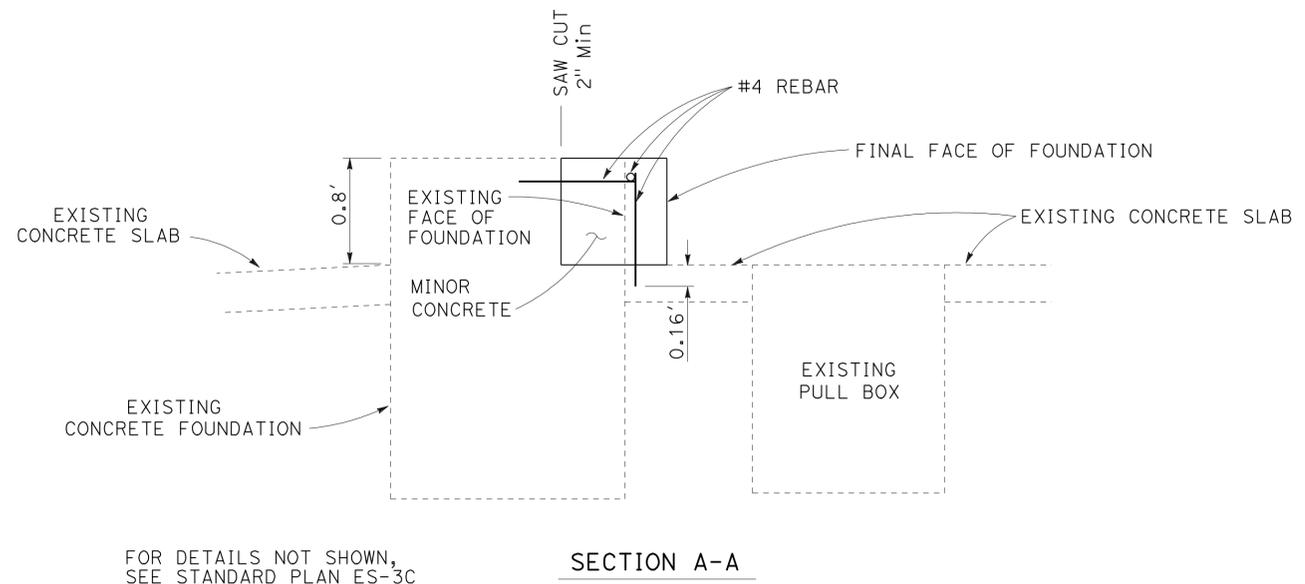
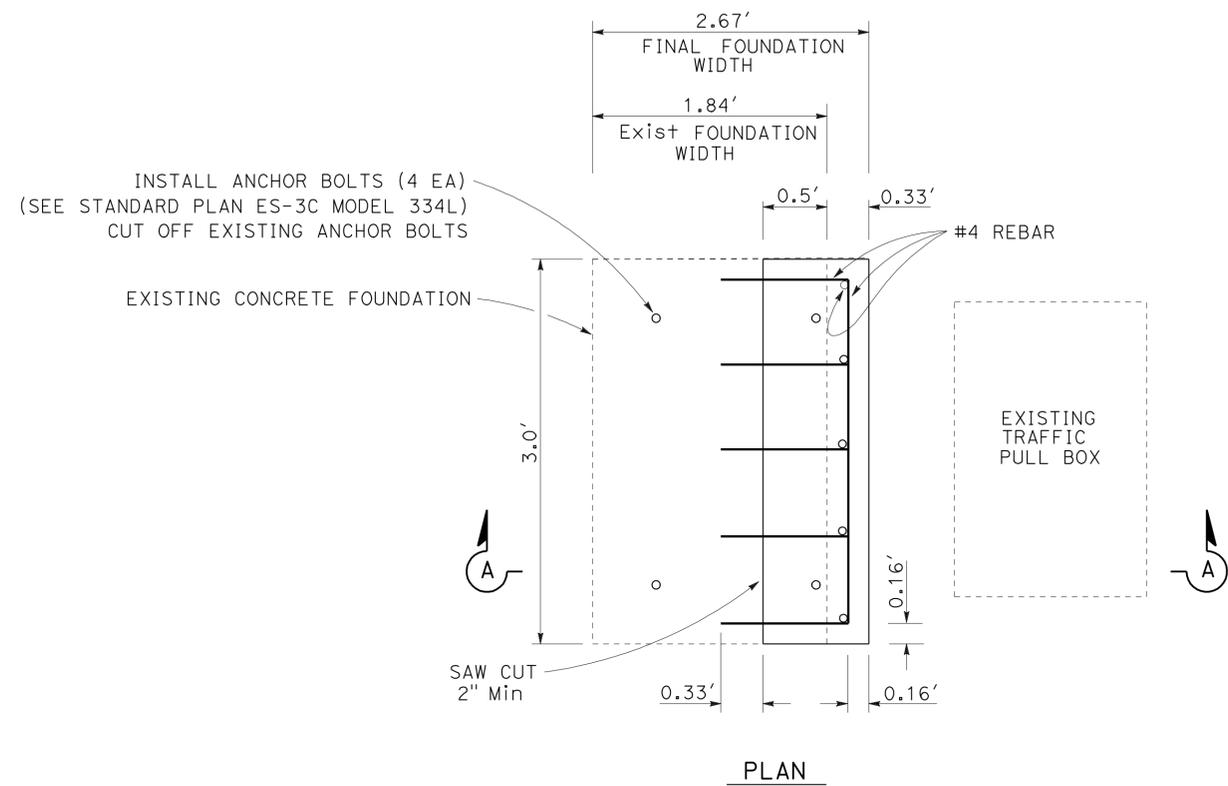
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	20	29

*Brian T. Finck* 1/24/13  
 REGISTERED ELECTRICAL ENGINEER DATE

January 24, 2013  
 PLANS APPROVAL DATE

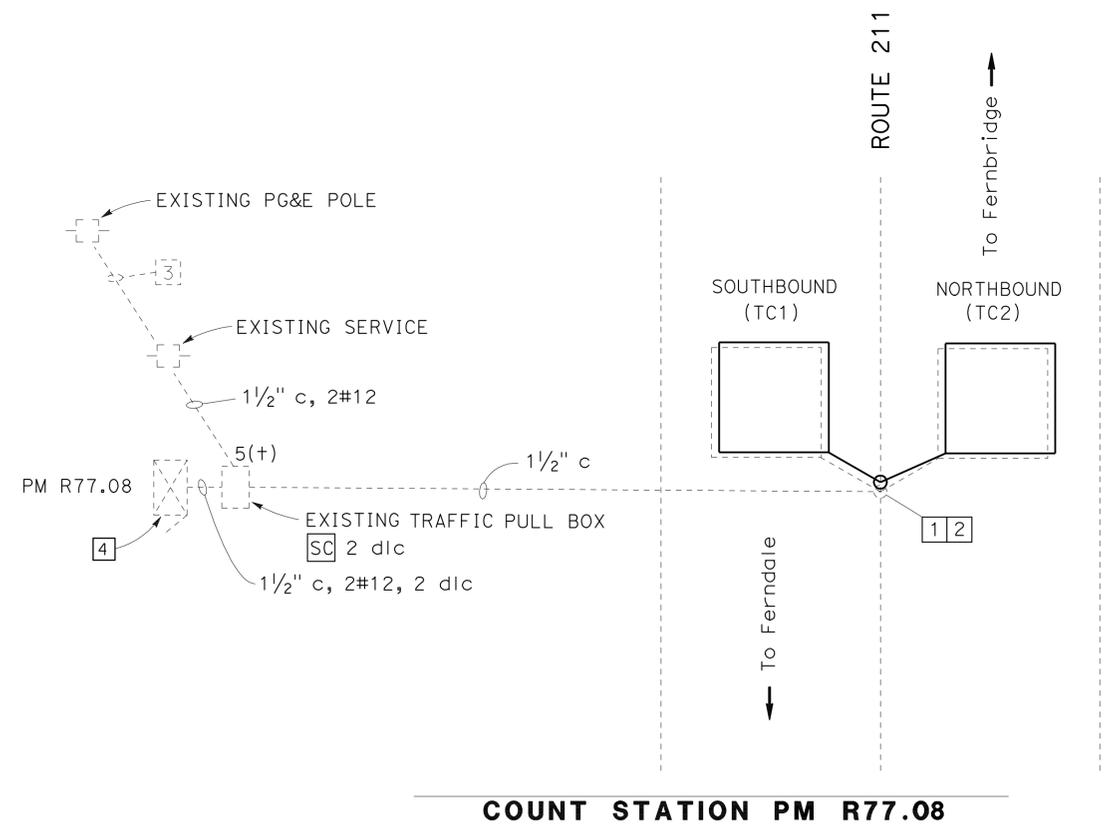
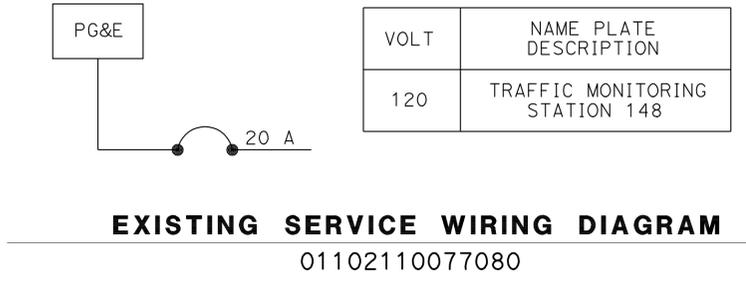
*Brian T. Finck*  
 No. 17756  
 Exp. 6-30-14  
 ELECTRICAL

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FOR DETAILS NOT SHOWN, SEE STANDARD PLAN ES-3C

**MODIFY ELECTRICAL CABINET FOUNDATION**



**MODIFY TRAFFIC MONITORING STATION (COUNT) E-1**

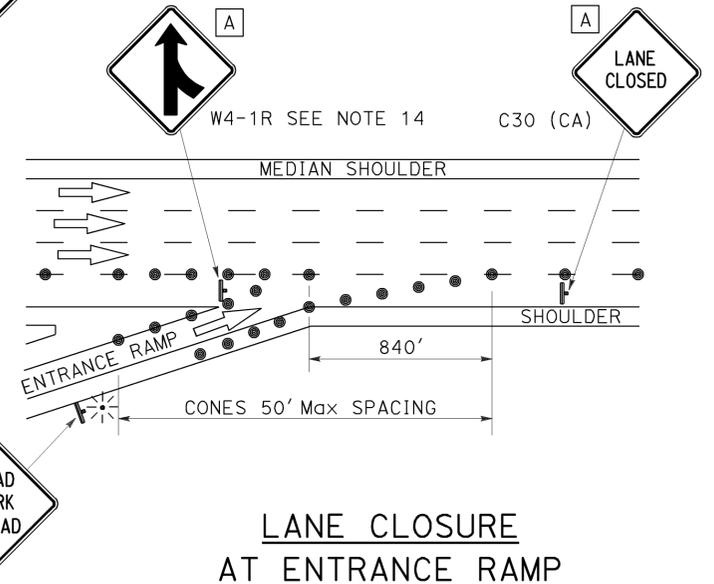
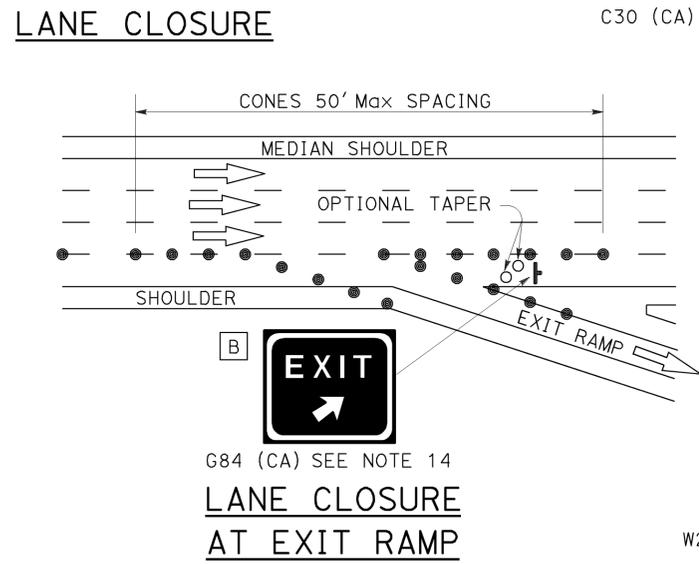
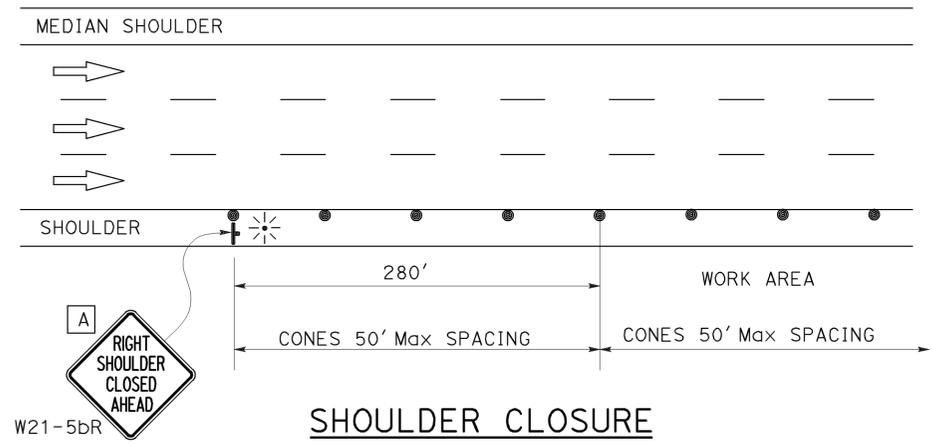
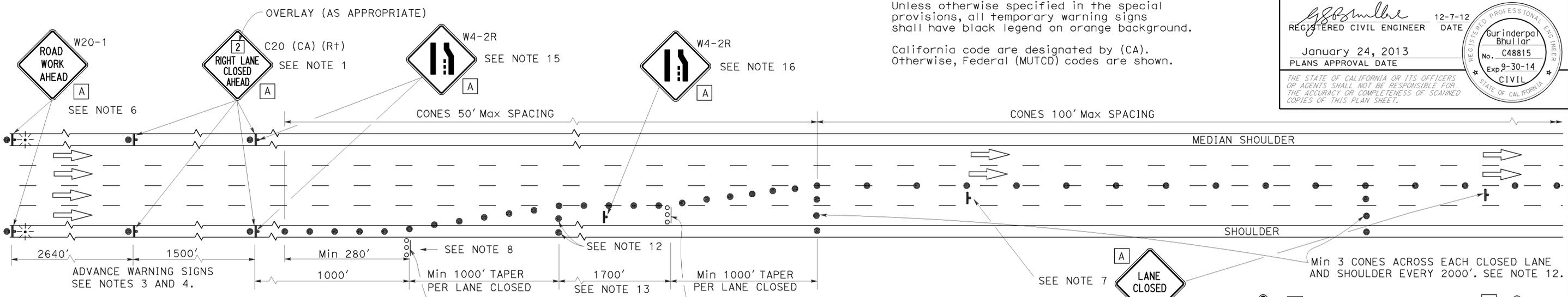
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	21	29

REGISTERED CIVIL ENGINEER	DATE
<i>Gurinderpal Bhullar</i>	12-7-12
PLANS APPROVAL DATE	
January 24, 2013	

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.



**NOTES:**

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
  - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
  - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- 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.
- 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.
- 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.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- 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.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- 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.
- 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.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- 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.
- 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**

REVISOR BY DATE

CALCULATED/DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION









# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE  
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	25	29

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

12-7-12 DATE  
 January 24, 2013  
 PLANS APPROVAL DATE

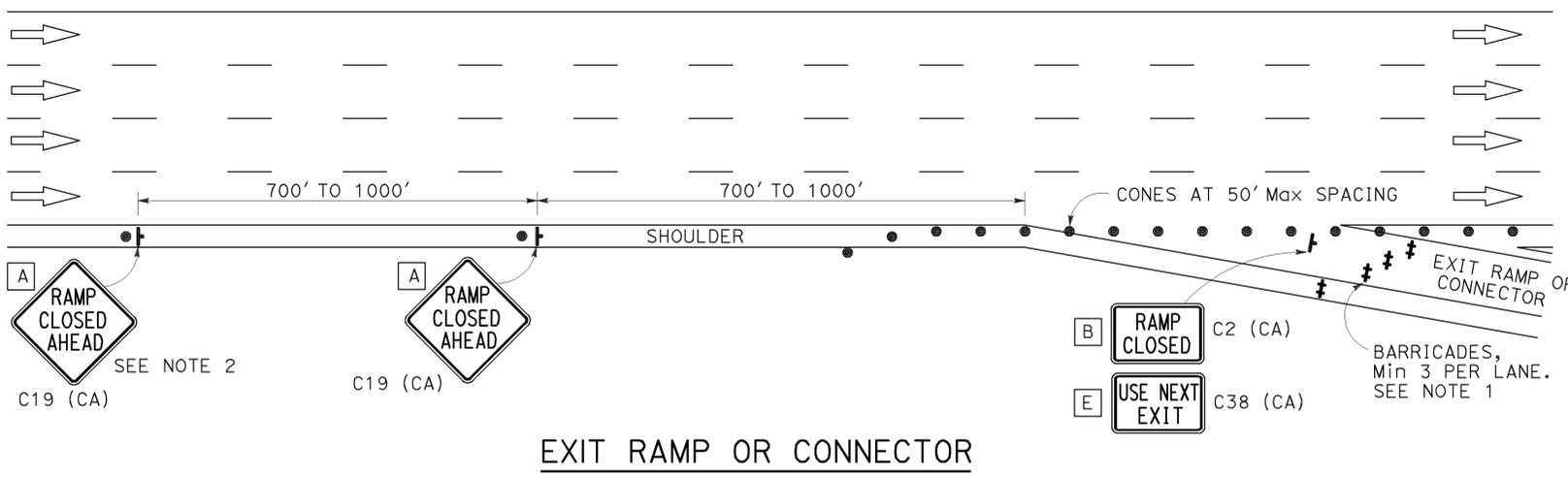
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

## LEGEND

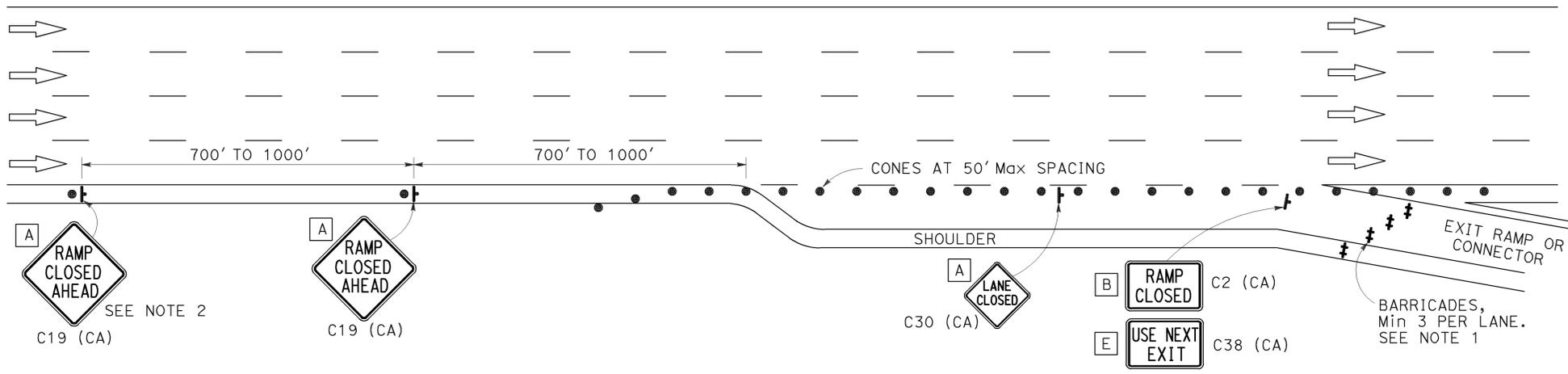
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

## NOTES:

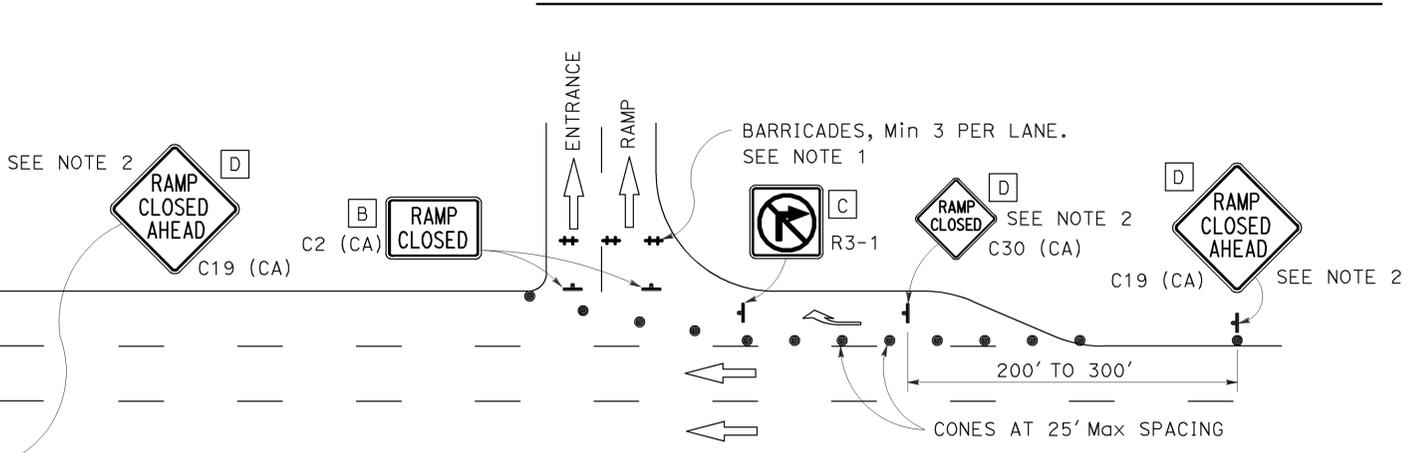
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19 (CA) "RAMP CLOSED AHEAD" 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.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" sign in the gore area shall be covered during ramp closures.



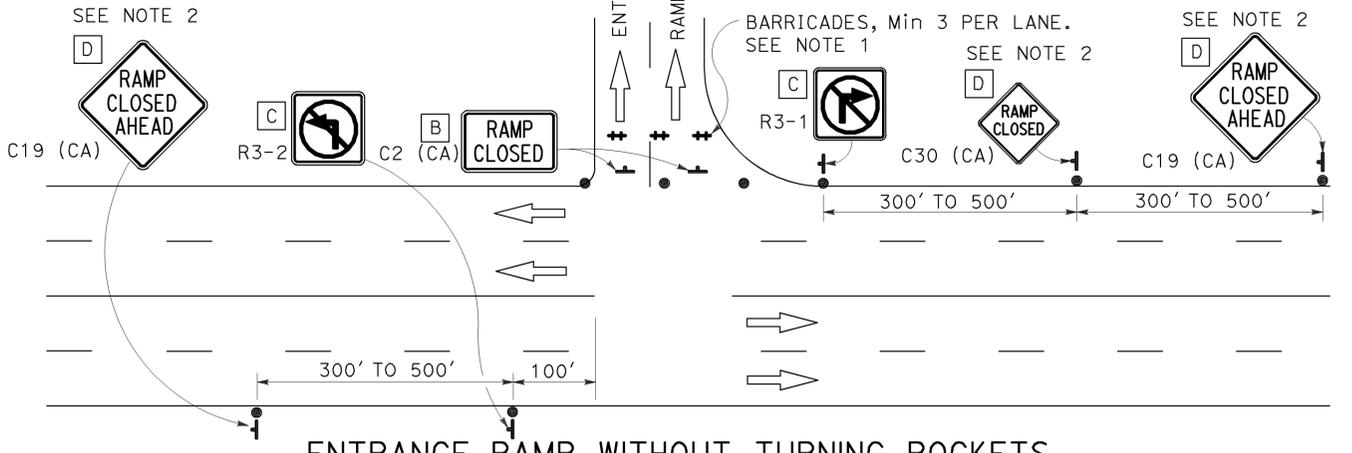
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## 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.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-5

REVISOR BY  
DATE

CALCULATED/DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Et-Trans

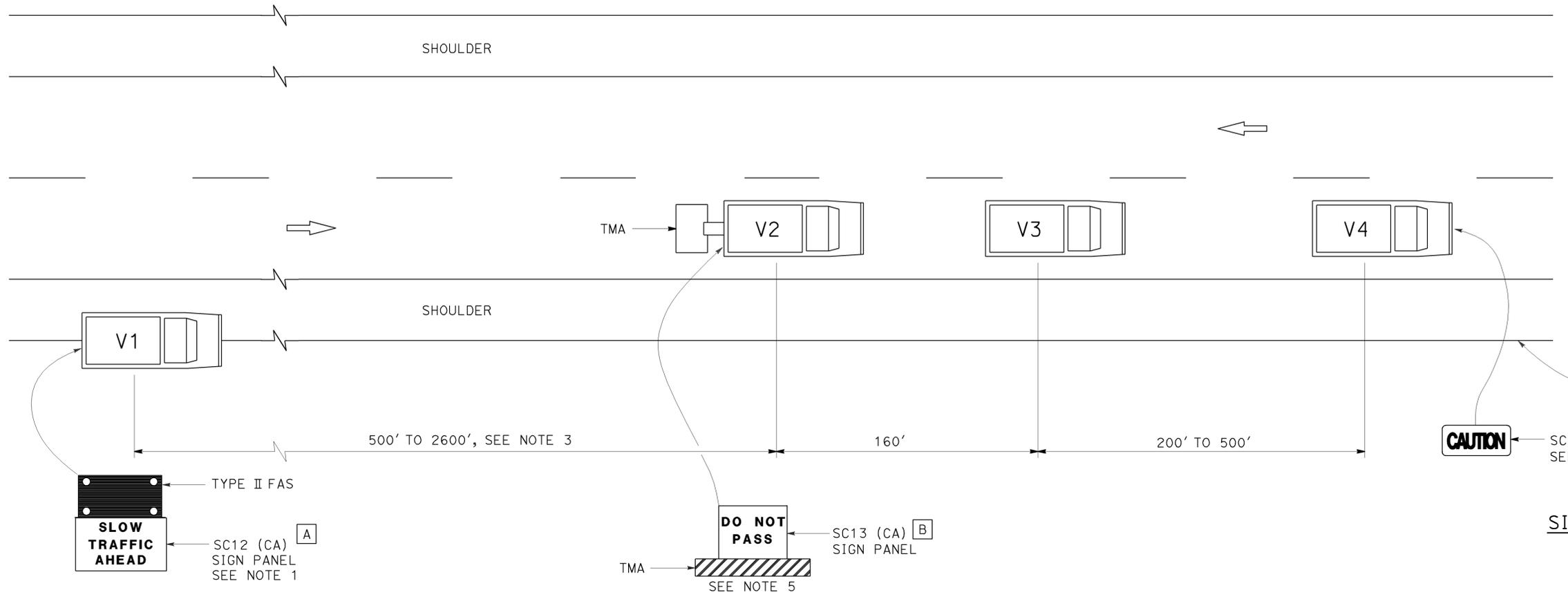


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	27	29

12-7-12  
 REGISTERED CIVIL ENGINEER DATE  
 Gurinderpal Bhuilal  
 No. C48815  
 Exp 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

January 24, 2013  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
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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:**

- 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.
- Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
- 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.
- 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.
- The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
- All vehicles shall be equipped with flashing or rotating amber lights.
- 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.
- 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.
- 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**

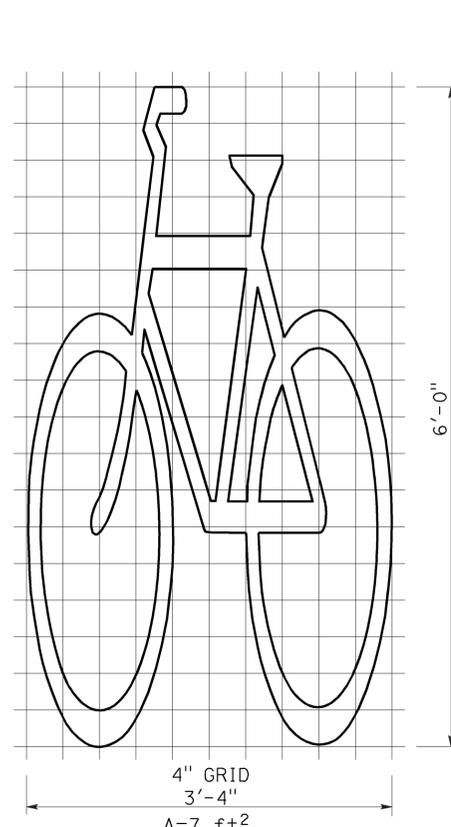
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	28	29

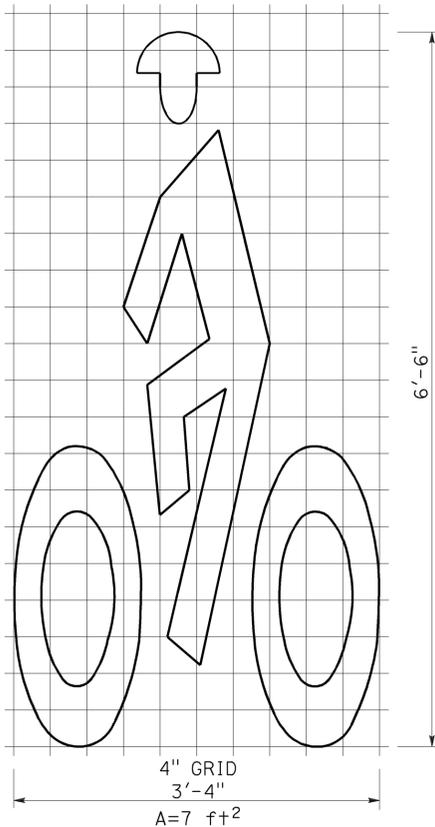
Registered Professional Engineer  
 Roberto L. McLaughlin  
 No. C40375  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

October 19, 2012  
 PLANS APPROVAL DATE

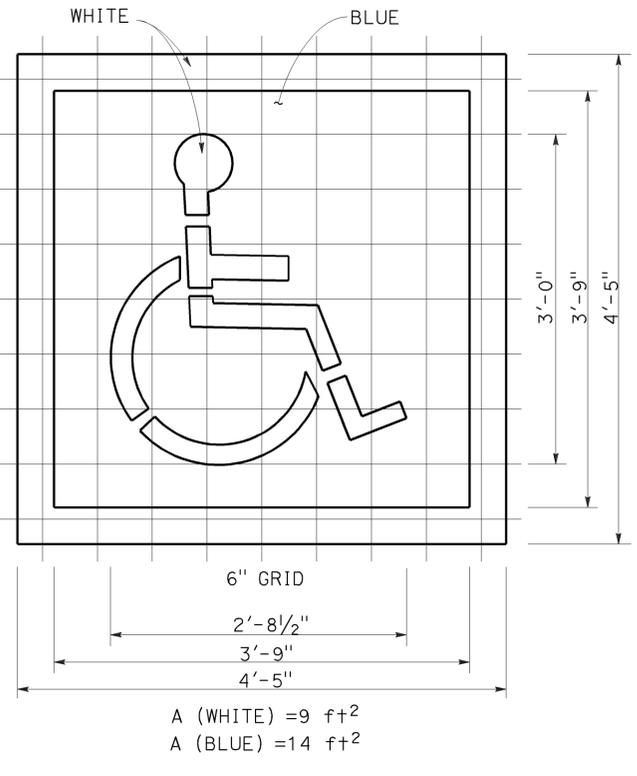
THE STATE OF CALIFORNIA OR ITS OFFICERS  
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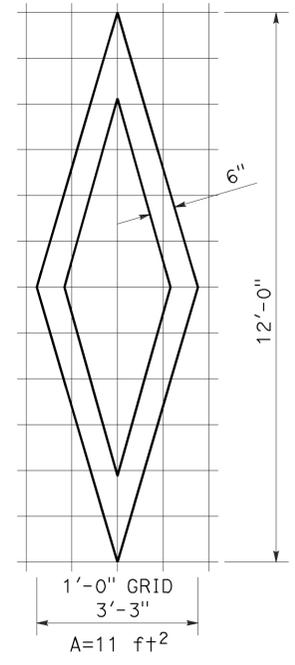
**BIKE LANE SYMBOL  
WITHOUT PERSON**



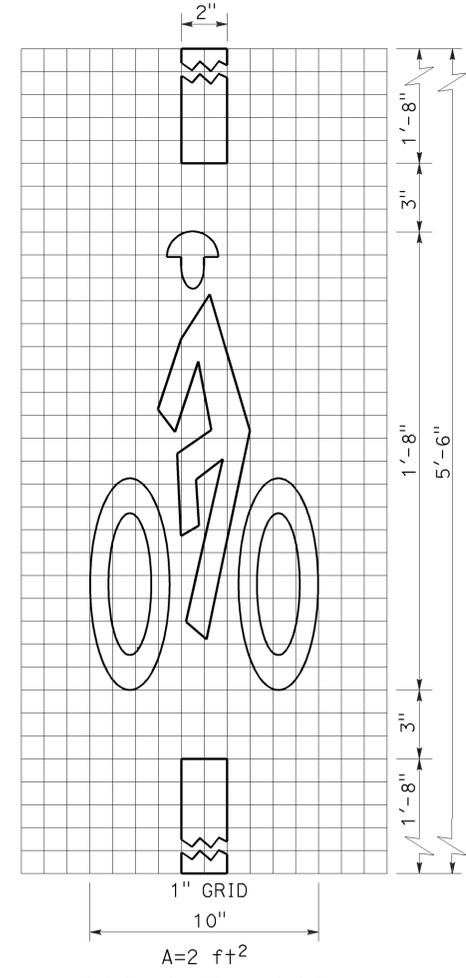
**BIKE LANE SYMBOL  
WITH PERSON**



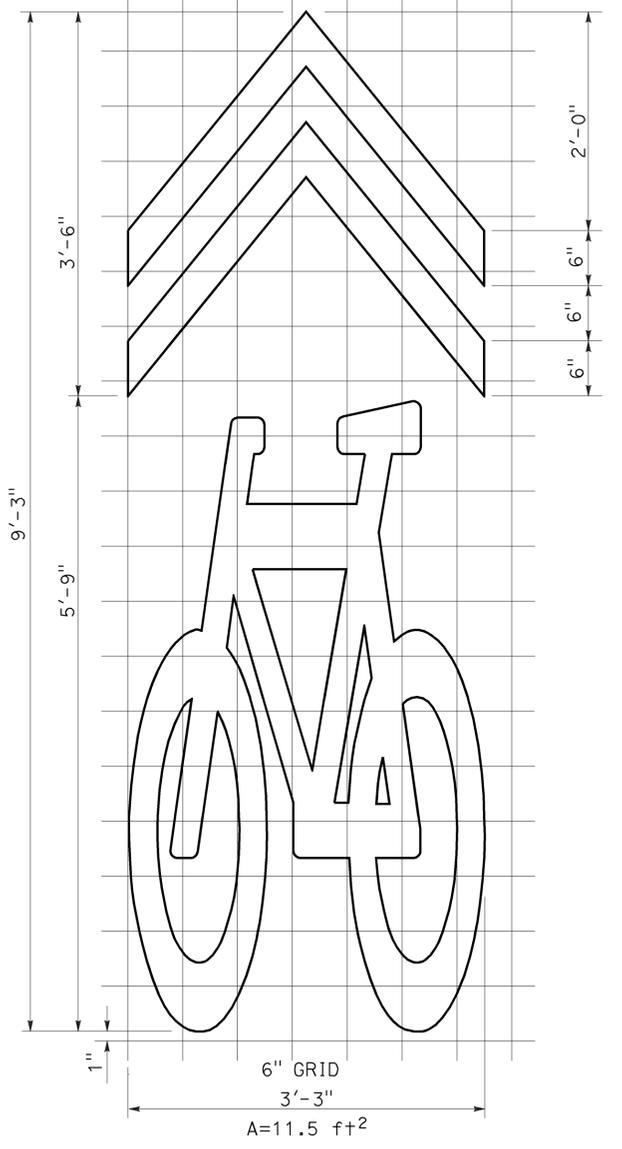
**INTERNATIONAL SYMBOL  
OF ACCESSIBILITY (ISA) MARKING**



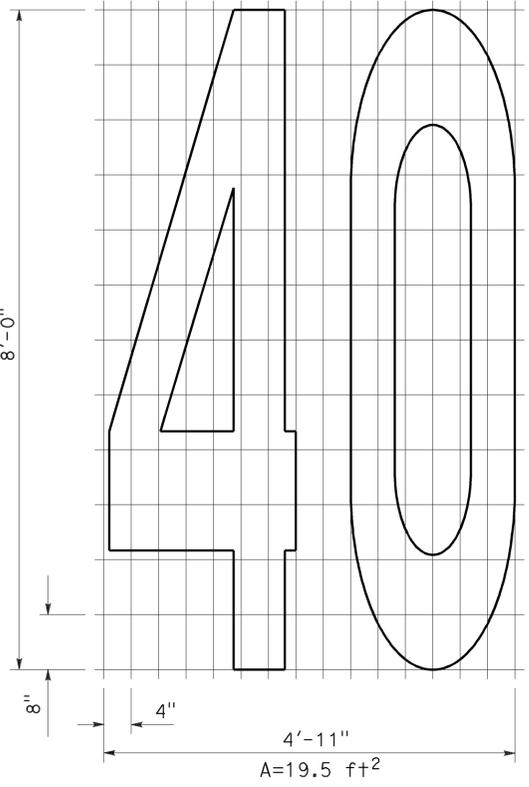
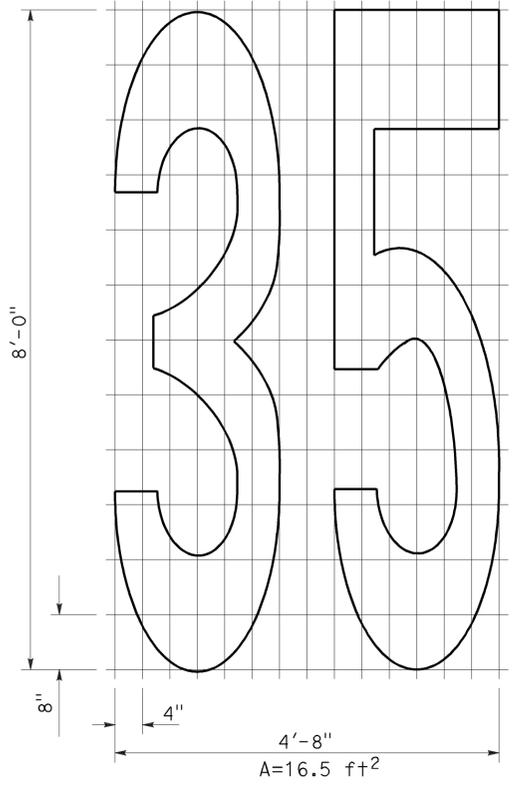
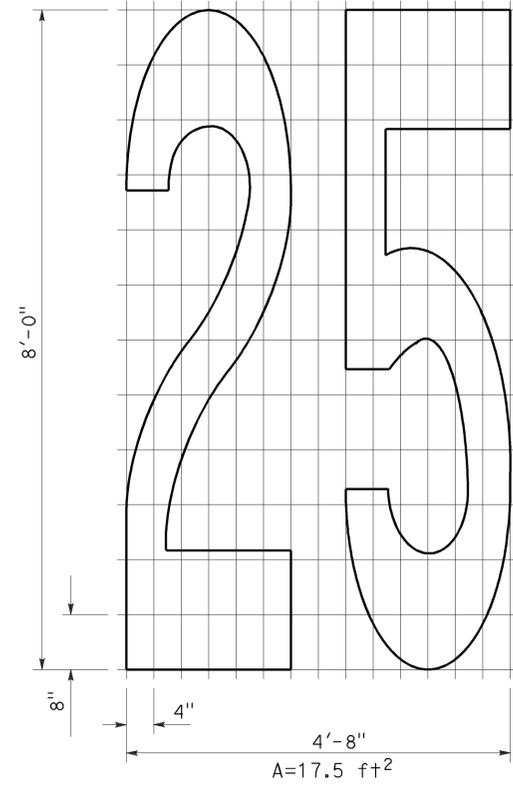
**DIAMOND SYMBOL**



**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**

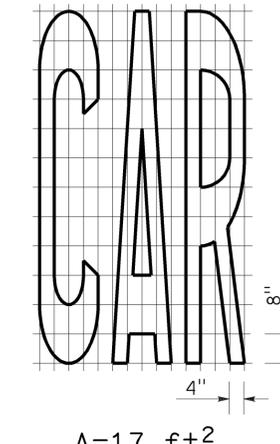
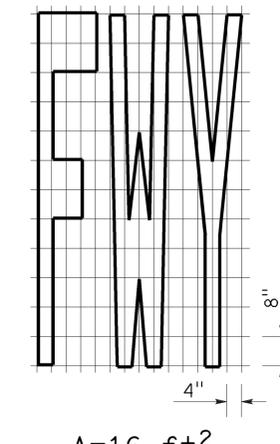
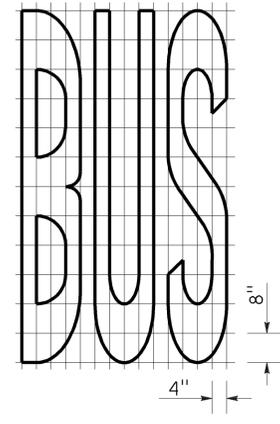
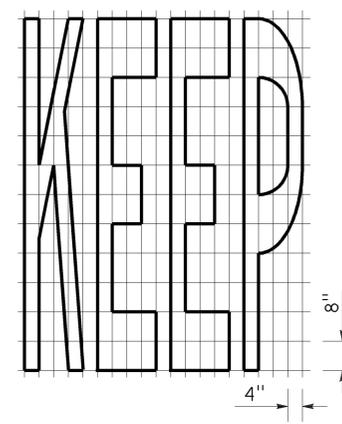
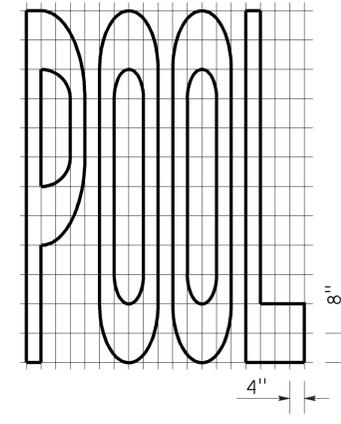
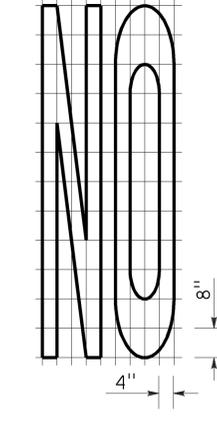
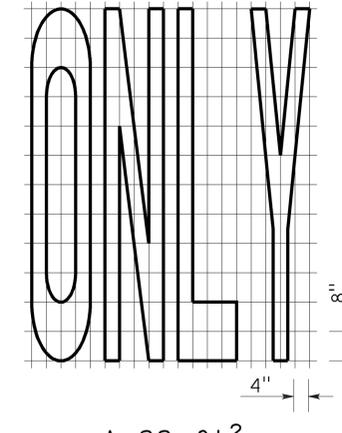
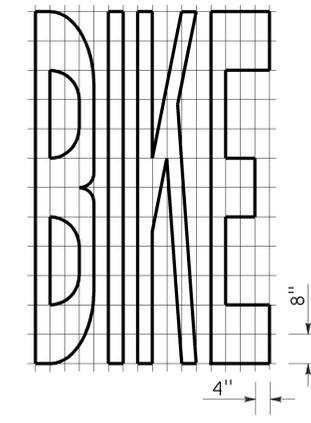
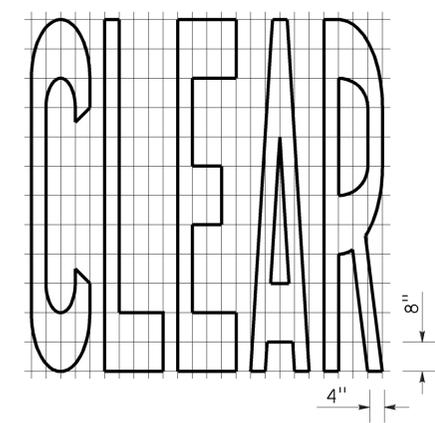
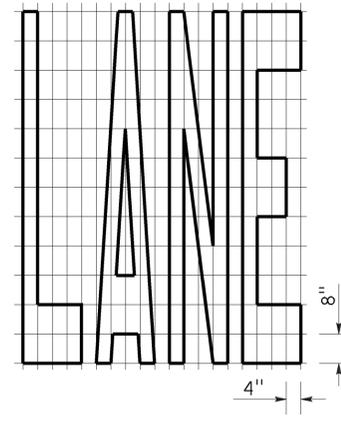
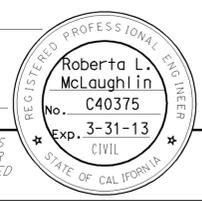
**2010 REVISED STANDARD PLAN RSP A24C**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	211	R74.4/79.2	29	29

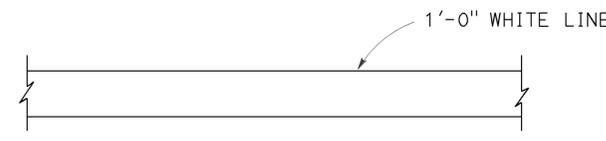
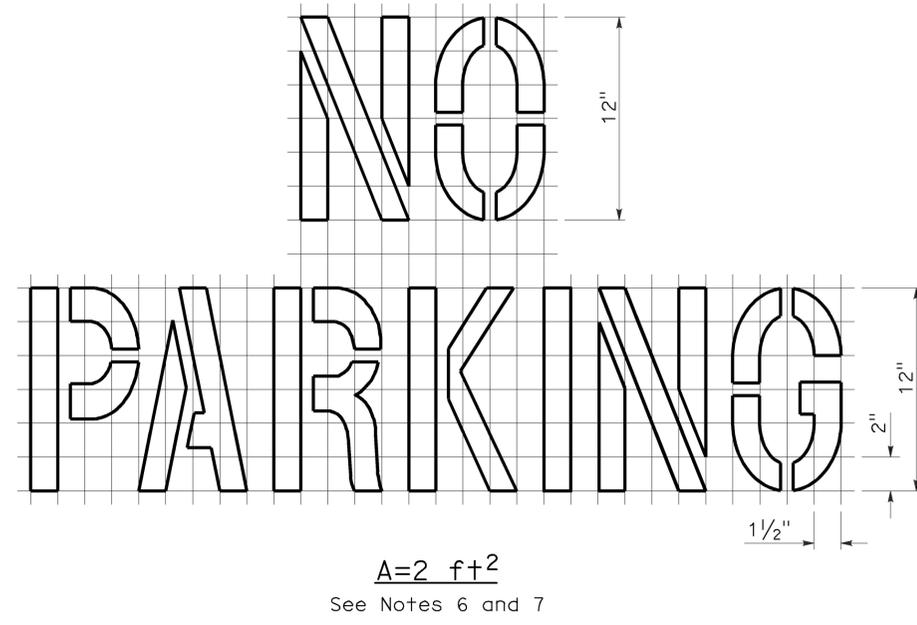
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER  
 July 20, 2012  
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED January 24, 2013



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



**LIMIT LINE (STOP LINE)**



**YIELD LINE**

**NOTES:**

- If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
- 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.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
- 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