

INDEX OF PLANS

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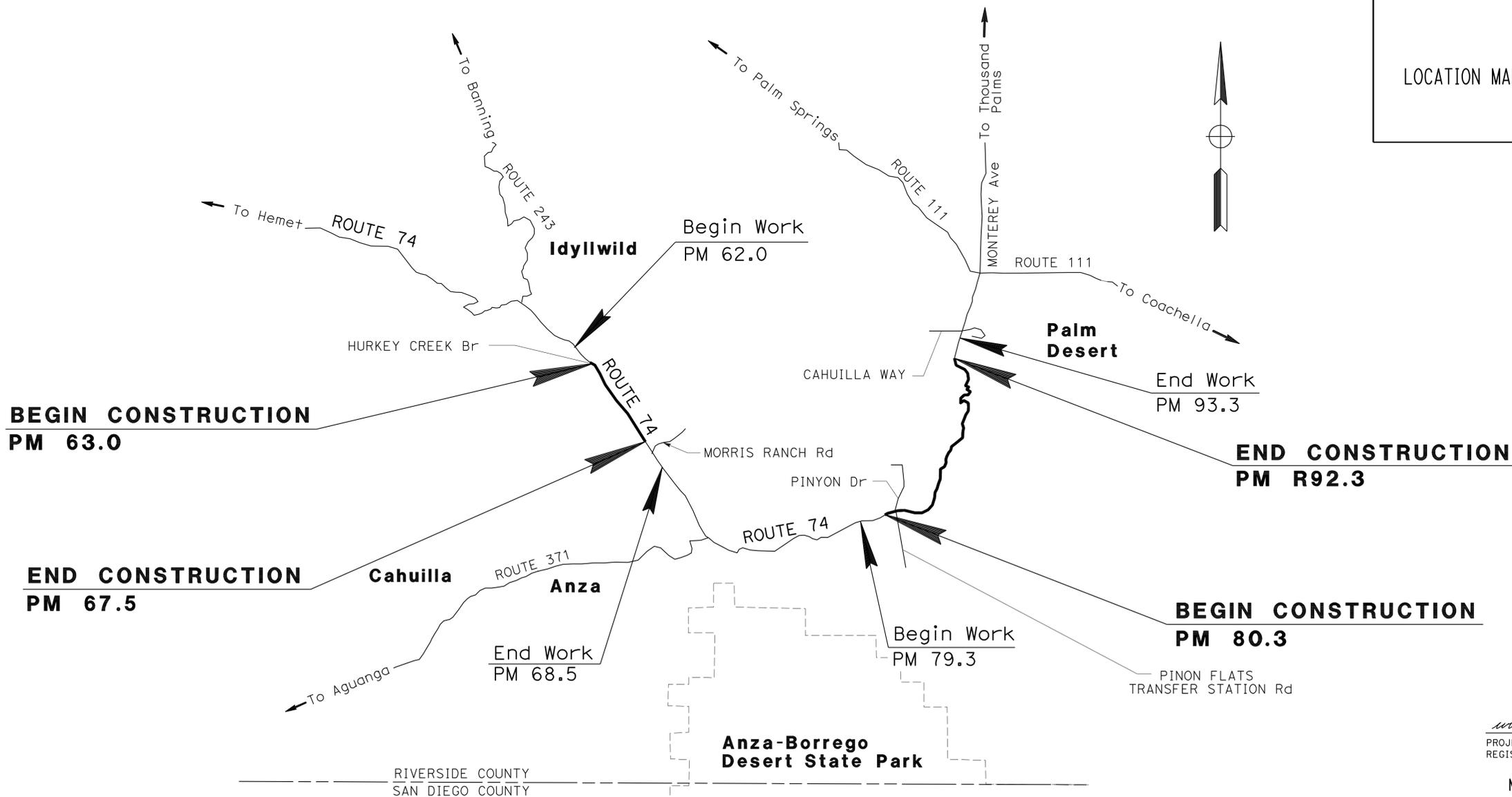
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN RIVERSIDE COUNTY**  
**NEAR IDYLLWILD AND PALM DESERT**  
**FROM HURKEY CREEK BRIDGE TO 0.5 MILE**  
**WEST OF MORRIS RANCH ROAD AND FROM 0.2 MILE**  
**WEST OF PINYON DRIVE TO 1.4 MILES SOUTH OF CAHUILLA WAY**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5 80.3/R92.3	1	10

LOCATION MAP



PROJECT MANAGER  
CATALINO PINING

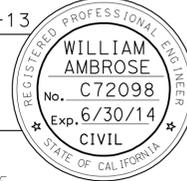
DESIGN ENGINEER  
WILLIAM AMBROSE

*William Ambrose* 2-27-13  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER

March 4, 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

DATE PLOTTED => 05-MAR-2013 TIME PLOTTED => 1:37:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	2	10

*William Ambrose* 2-27-13  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**WILLIAM AMBROSE**  
 No. C72098  
 Exp 6/30/14  
 CIVIL  
 STATE OF CALIFORNIA

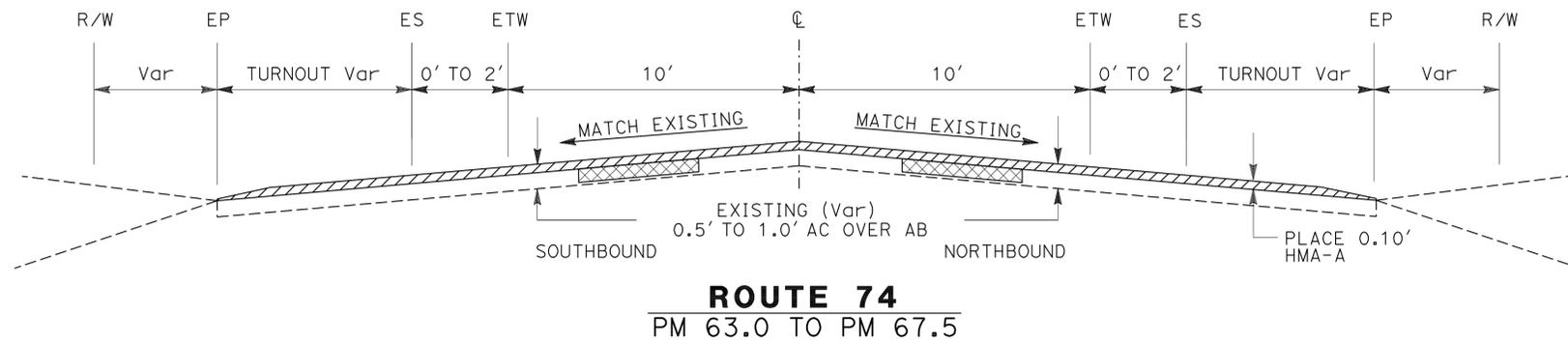
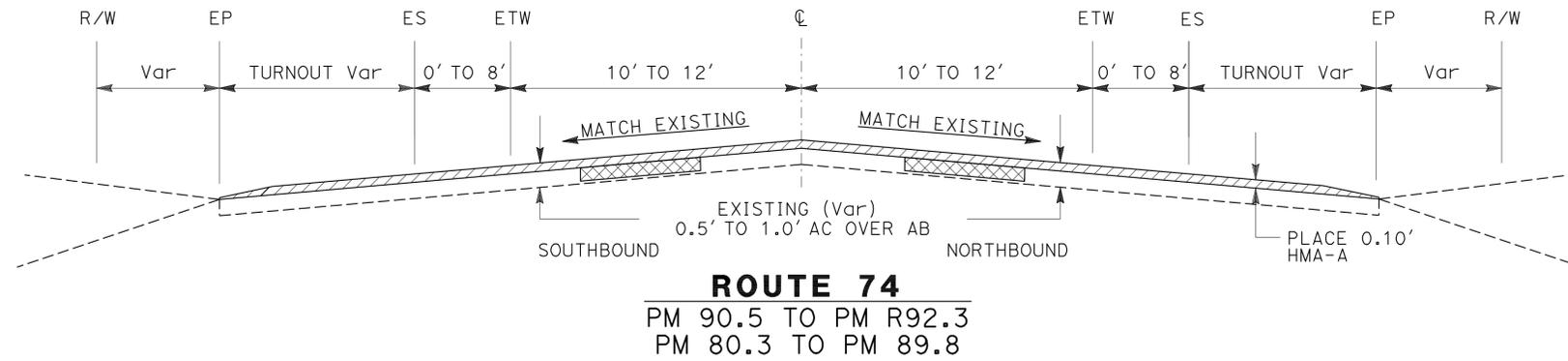
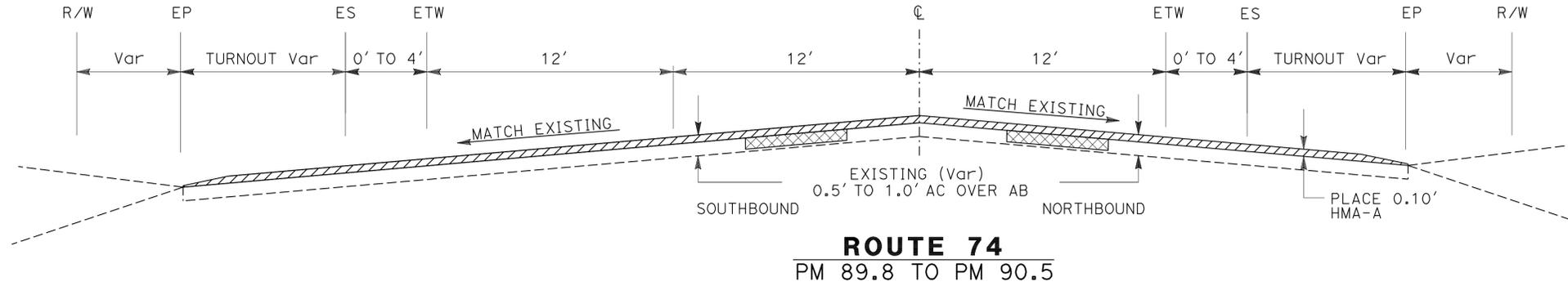
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- ALL WORK WITHIN STATE RIGHT OF WAY.
- FOR LOCATIONS AND QUANTITIES OF TURNOUTS, SEE SHEET Q-1.

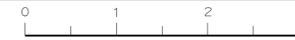
**LEGEND:**

-  REPLACE ASPHALT CONCRETE SURFACING
-  HMA-A



**TYPICAL CROSS SECTIONS**  
NO SCALE **X-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: KEVIN CHEN  
 WILLIAM AMBROSE  
 KEVIN CHEN  
 REVISOR BY: DATE  
 DESIGNED BY: CHECKED BY:



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	3	10

*William Ambrose* 2-27-13  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 PLANS APPROVAL DATE

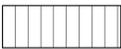
REGISTERED PROFESSIONAL ENGINEER  
**WILLIAM AMBROSE**  
 No. C72098  
 Exp. 6/30/14  
 CIVIL  
 STATE OF CALIFORNIA

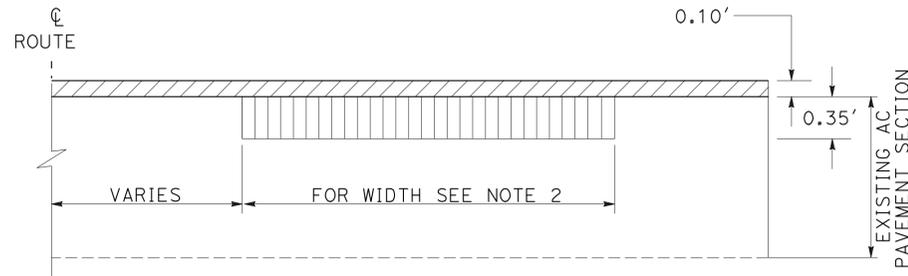
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

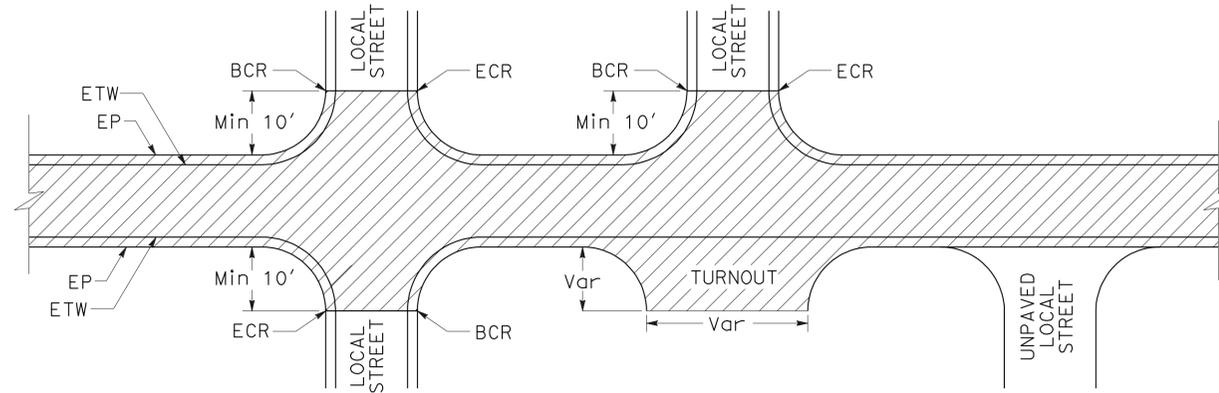
- FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND DIMENSIONS SEE SHEET Q-1.
- EXACT LIMITS TO BE DETERMINED BY THE ENGINEER.

**LEGEND:**

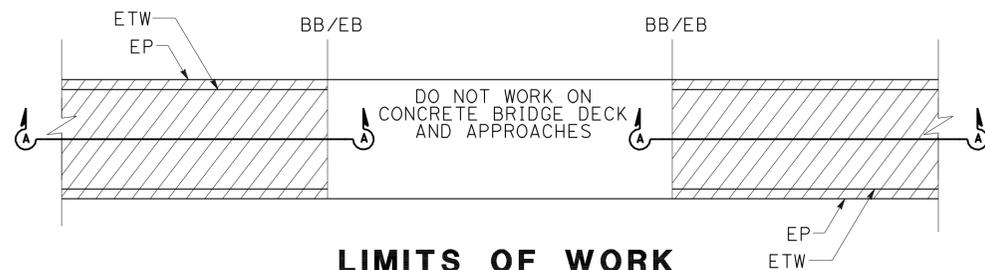
-  PLACE HMA-A OVERLAY
-  REPLACE ASPHALT CONCRETE SURFACING WITH HMA-A
-  COLDPLANE AND HMA-A



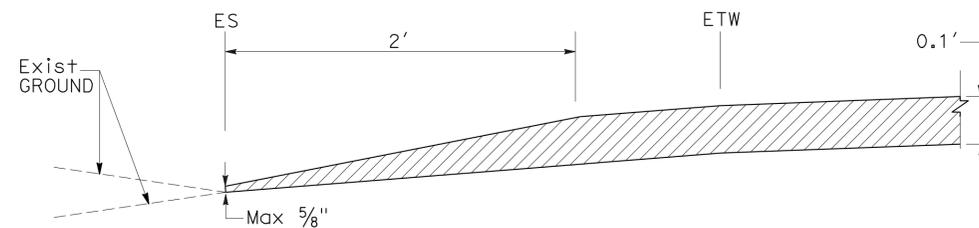
**LOCALIZED DIGOUTS**



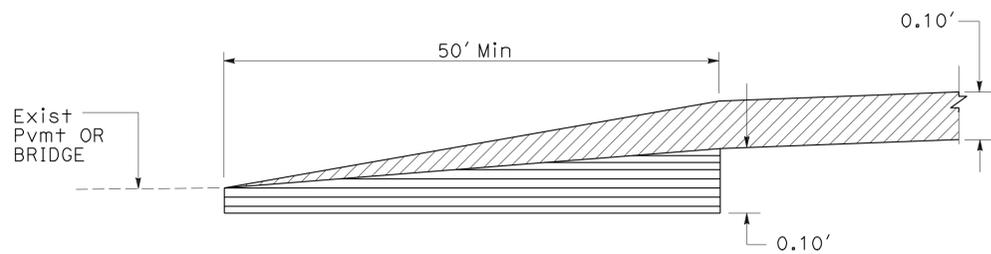
**LIMIT OF WORK LOCAL STREETS**



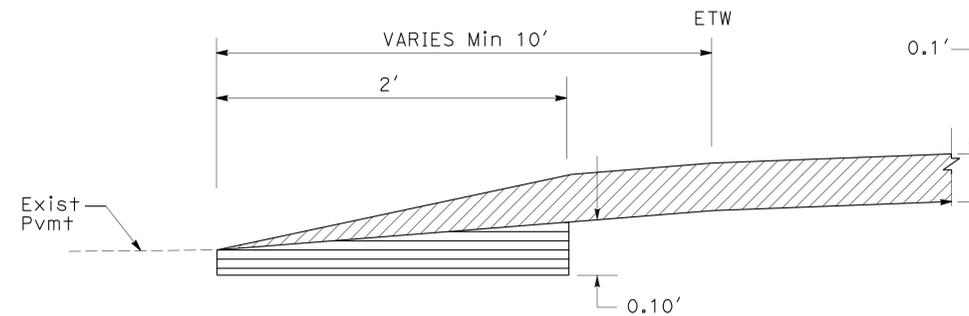
**LIMITS OF WORK STRUCTURE DECK**



**LONGITUDINAL PAVEMENT CONFORM TYPICAL**



**TRANSVERSE HMA-A TAPER TYPICAL**



**EDGE OF PAVEMENT CONFORM LOCAL STREET INTERSECTION TYPICAL**

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	4	10

REGISTERED CIVIL ENGINEER DATE 2-27-13  
 OSCAR ALEJANDRE  
 No. C70863  
 Exp. 6/30/13  
 CIVIL  
 PLANS APPROVAL DATE 3-4-13  
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.

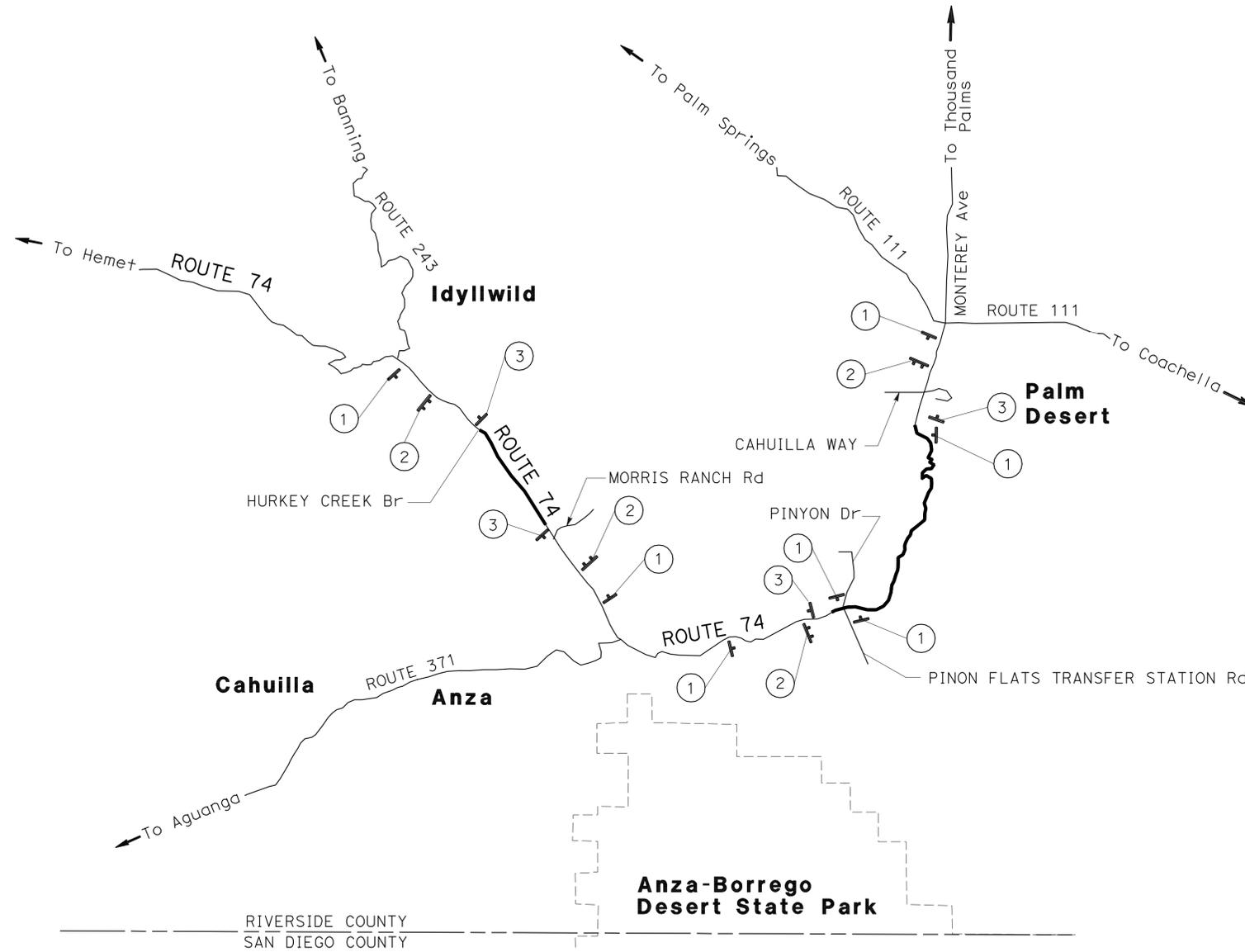


**NOTES:**

1. LOCATIONS OF THE CONSTRUCTION AREA SIGNS ARE APPROXIMATE. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

**LEGEND:**

- WORK AREA
- ⊗ CONSTRUCTION AREA SIGN NUMBER



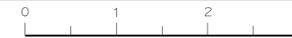
**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN NUMBER	SIGN CODE		SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
①	W20-1		ROAD WORK AHEAD	36" x 36"	1 - 4" x 4"	7
②		C40A	TRAFFIC FINES DOUBLE IN WORK ZONES	48" x 48"	1 - 6" x 6"	4
③	G20-2		END ROAD WORK	48" x 24"	1 - 4" x 4"	4

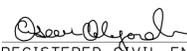
**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: OSCAR ALEJANDRE  
 CHECKED BY: DARYUSH NAMI  
 REVISED BY: DATE REVISION



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	5	10

 2-27-13  
 REGISTERED CIVIL ENGINEER DATE

3-4-13  
 PLANS APPROVAL DATE

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### PAVEMENT DELINEATION QUANTITIES

LOCATION (PM)	DESCRIPTION	REMOVE PAVEMENT MARKERS	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKERS RETROREFLECTIVE RECESSED			THERMOPLASTIC PAVEMENT MARKING SF
		TYPE	4" WHITE	4" YELLOW	8" WHITE	TYPE			
		D (EA)	(LF)			D	G	H	
63.0 TO 67.5	DETAIL 6			7339		154			
	DETAIL 19			11141		234		466	
	DETAIL 22			5280		442			
	DETAIL 27B		47520						
80.3 TO R92.3	DETAIL 12		6970				147		
	DETAIL 22			62674		5226			
	DETAIL 27B		141082						
	DETAIL 29			8341		698			
	DETAIL 38A				412				
	ARROWS TYPE IV (L,R) AND VI AND LIMIT LINES MARKINGS								216
89.0 TO R92.3	DETAIL 22	1450							
	<b>SUBTOTAL</b>	1450	195572	94775	412	6754	147	466	216
	<b>TOTAL</b>	1450	290759			7367			216

### PORTABLE CHANGEABLE MESSAGE SIGN

QUANTITY
EA
2

## PAVEMENT DELINEATION QUANTITIES PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 OSCAR ALEJANDRE  
 DARYUSH NAMI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 FUNCTIONAL SUPERVISOR  
 BILL WASSER  
 REVISOR BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	6	10

*William Ambrose* 2-27-13  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 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.

**NOTE:**  
 1. SEE SHEET C-1 FOR CONSTRUCTION DETAILS.

**HMA-A ADDITIONAL AREAS**

ITEM No.	DESCRIPTION	PM	TACK COAT	HMA-A
			(TON)	(TON)
1	TURNOUT	63.26	0.1	24
2	INTERSECTION	63.74	0.1	7
3	INTERSECTION	65.70	0.1	50
4	TURNOUT	80.50	0.1	25
5	INTERSECTION	80.57	0.1	23
6	RIGHT TURN POCKET	80.57	0.1	35
7	TURNOUT	81.00	0.3	114
8	TURNOUT	81.30	0.2	72
9	TURNOUT	81.50	0.1	32
10	TURNOUT	81.86	0.1	6
11	TURNOUT	82.11	0.1	22
12	TURNOUT	82.42	0.2	53
13	INTERSECTION	82.45	0.1	9
14	TURNOUT	83.32	0.1	40
15	INTERSECTION	84.01	0.1	30
16	TURNOUT	84.10	0.1	11
17	TURNOUT	84.40	0.1	21
18	TURNOUT	84.83	0.1	18
19	TURNOUT	85.05	0.1	4
20	TURNOUT	85.15	0.1	34
21	TURNOUT	85.47	0.1	21
22	TURNOUT	85.58	0.1	11
23	TURNOUT	85.82	0.1	35
24	TURNOUT	85.87	0.1	13
25	TURNOUT	86.06	0.1	47
26	TURNOUT	86.14	0.1	42
27	TURNOUT	86.28	0.1	40
28	TURNOUT	86.70	0.1	19
29	TURNOUT	87.00	0.1	29
30	TURNOUT	87.06	0.1	4
31	TURNOUT	87.21	0.1	24
32	TURNOUT	87.50	0.1	31
33	TURNOUT	88.00	0.1	32
34	TURNOUT	89.07	0.1	33
35	TURNOUT	91.38	0.1	8
36	INTERSECTION	92.10	0.1	5
37	TURN LANE	92.15	0.2	60
38	INTERSECTION	92.20	0.1	3
SUBTOTAL			4	1086

**COLD PLANE TAPER AREAS**

LOCATION PM	DESCRIPTION	COLD PLANE
		SQYD
63.0	BEGIN HMA-A OVERLAY	267
63.0	HURKEY CREEK BRIDGE	378
63.00	ANTSSELL CREEK BRIDGE	378
63.00	SERVO CREEK	378
80.3	SF SAN JACINTO BRIDGE	133
80.3	END HMA-A OVERLAY	189
63.7	INTERSECTION	223
65.7	INTERSECTION	1514
80.5	INTERSECTION	699
82.4	INTERSECTION	264
84.0	INTERSECTION	911
92.1	INTERSECTION	149
92.2	INTERSECTION	92
TOTAL		5574

**REPLACE ASPHALT CONCRETE SURFACING**

LOCATION			VOLUME
FROM PM	TO PM	DIRECTION	CY
63.0	66.0	SB	198
63.0	66.3	NB	166
TOTAL			365

(\*\*) EXACT LOCATIONS AND DIMENSIONS OF REPLACE AC SURFACING SHALL BE DETERMINED BY THE ENGINEER.

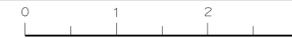
**OVERLAY PAVEMENT HMA-A**

PM	PM	TACK COAT	HMA-A
BEGIN	END	(TON)	(TON)
63.00	67.5	7	3524
80.3	R92.3	20	10734
SUBTOTAL		27	14258
TOTAL		31	15345

**SUMMARY OF QUANTITIES**

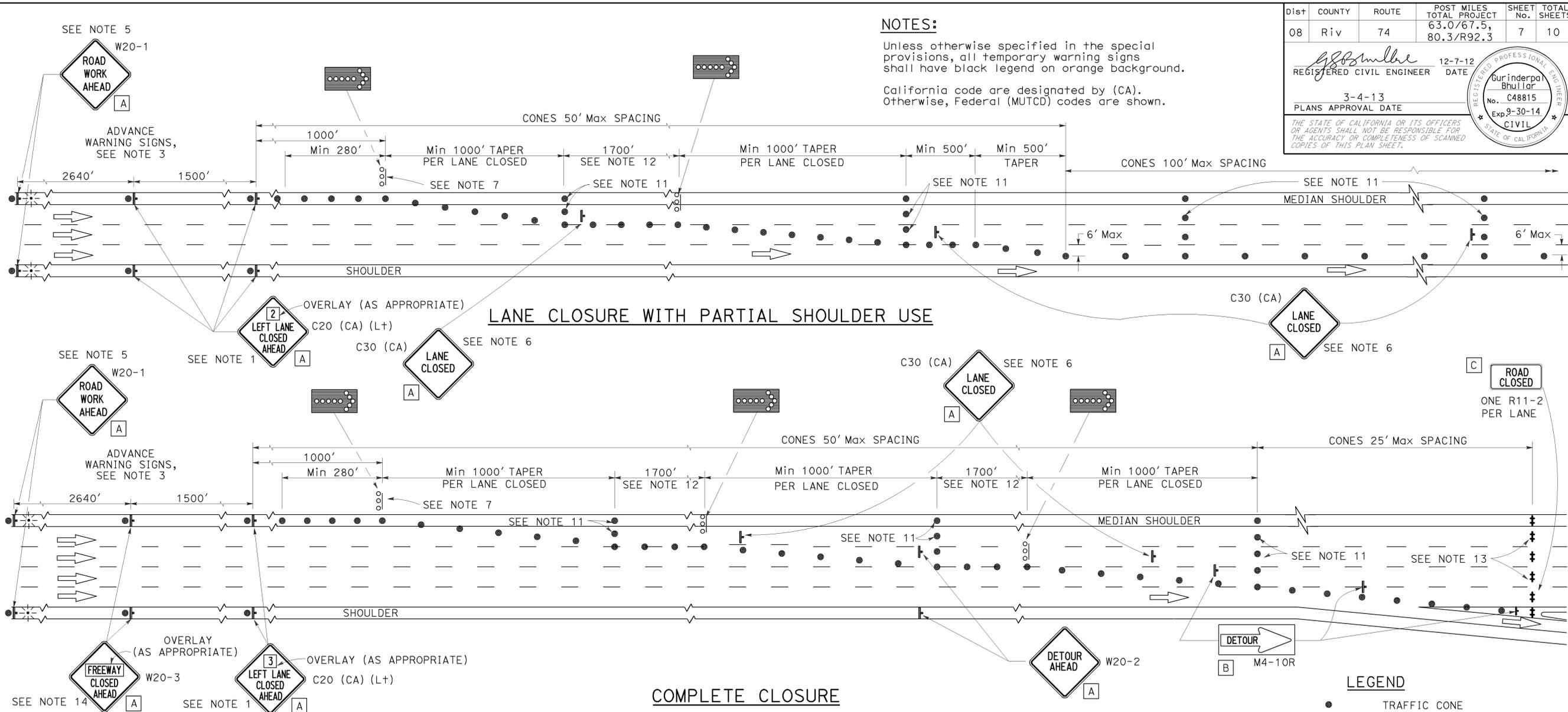
**Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 WILLIAM AMBROSE  
 KEVIN CHEN  
 KEVIN CHEN  
 KEVIN CHEN



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	7 10
REGISTERED CIVIL ENGINEER		DATE		
PLANS APPROVAL DATE		3-4-13		
<small>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.</small>				

**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:**
- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
  - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
  - 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 the 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 With Partial Shoulder Use" 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.
  - A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
  - When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

**SIGN PANEL SIZE (Min)**

A	48" x 48"
B	48" x 18"
C	48" x 30"

**LEGEND**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
 FOR LANE AND  
 COMPLETE CLOSURES ON  
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

**TCS-1**

REVISOR: [blank]  
 DATE: [blank]  
 CHECKED BY: [blank]  
 DESIGNED BY: [blank]  
 SUPERVISOR: [blank]  
 TRANSPORTATION: [blank]



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	9	10

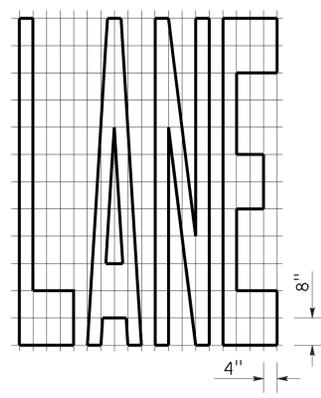
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER

July 20, 2012  
 PLANS APPROVAL DATE

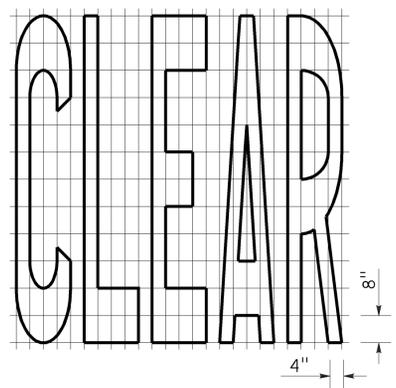
THE STATE OF CALIFORNIA OR ITS OFFICERS  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF SCANNED  
 COPIES OF THIS PLAN SHEET.

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

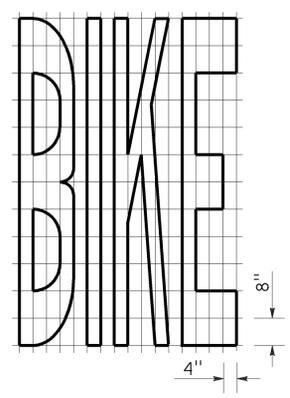
TO ACCOMPANY PLANS DATED 3-4-13



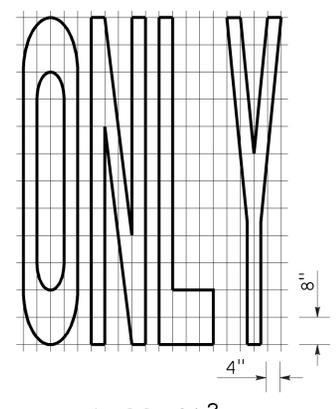
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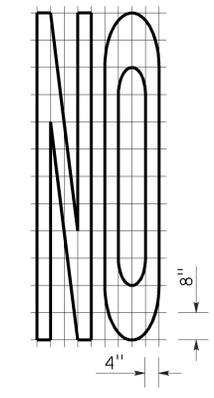
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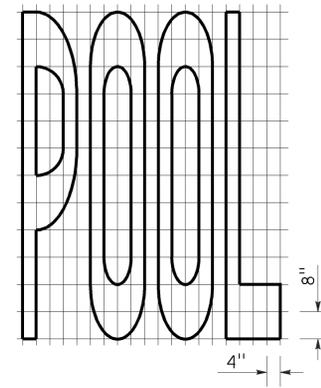
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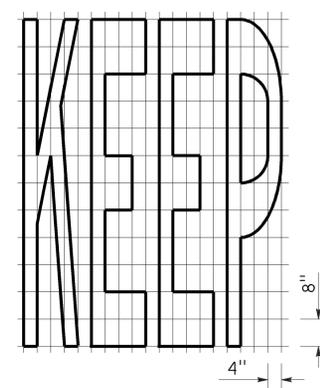
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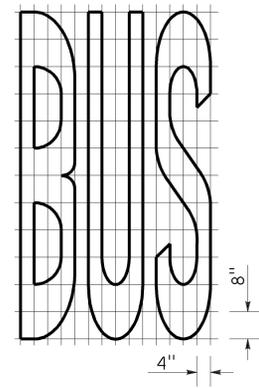
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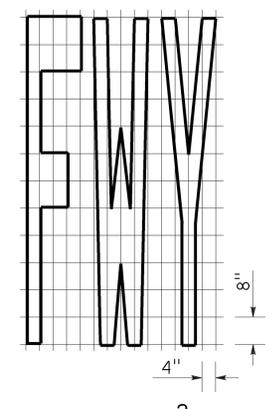
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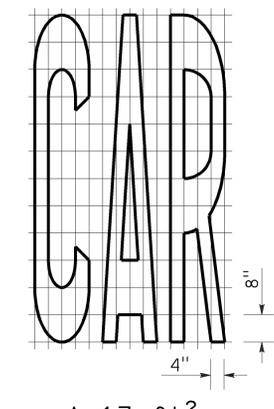
A=24 ft<sup>2</sup>



A=20 ft<sup>2</sup>



A=16 ft<sup>2</sup>

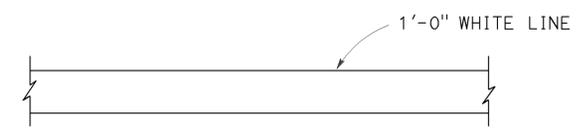


A=17 ft<sup>2</sup>

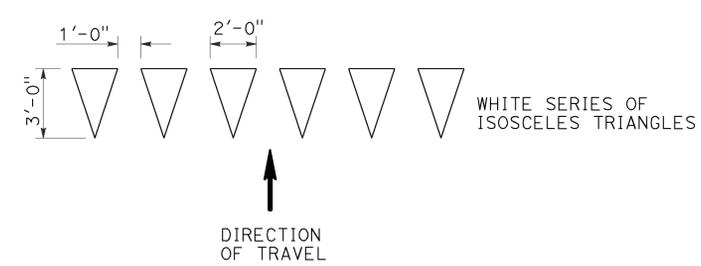
WORD MARKINGS			
ITEM	ft <sup>2</sup>	ITEM	ft <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft<sup>2</sup>  
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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	74	63.0/67.5, 80.3/R92.3	10	10

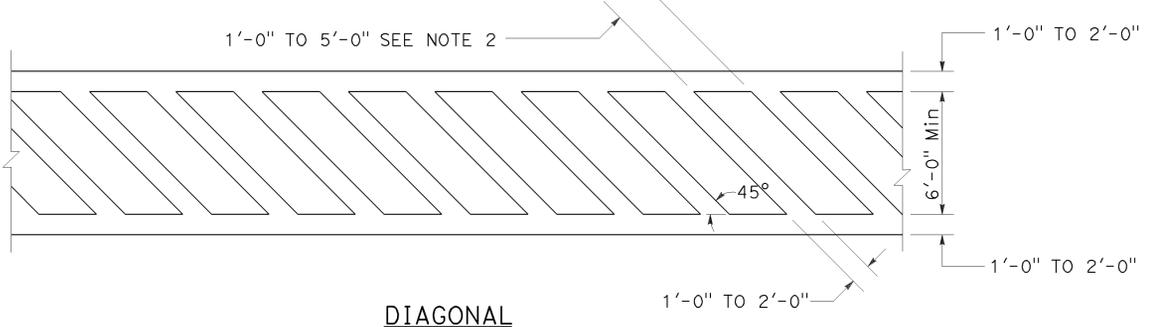
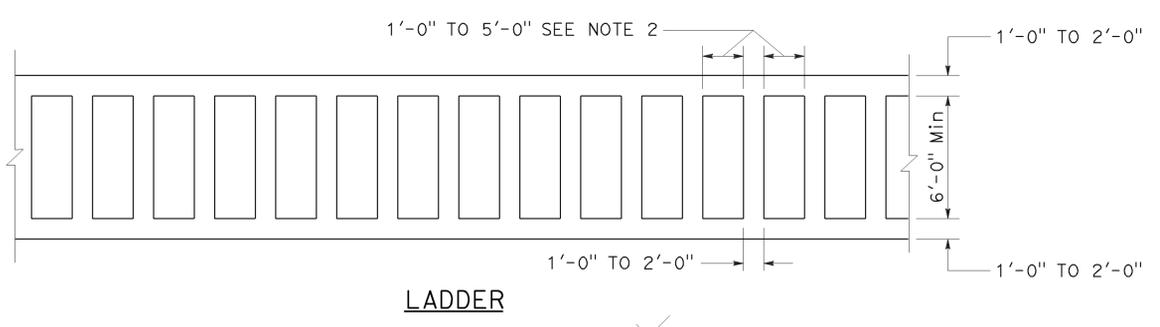
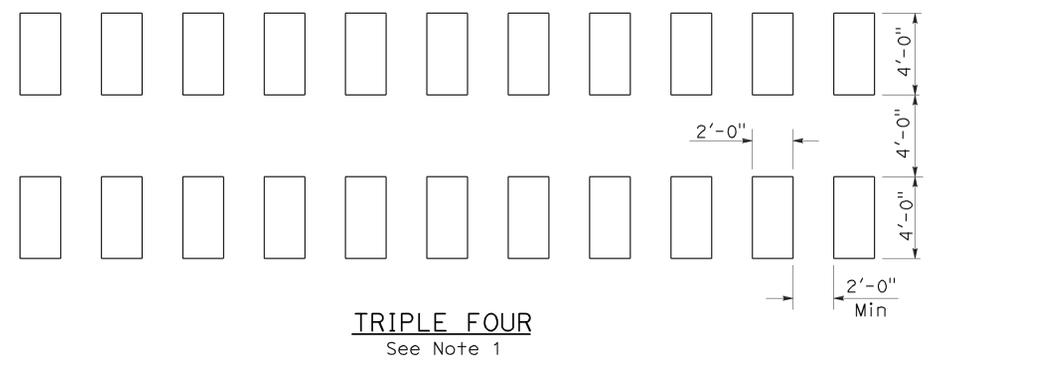
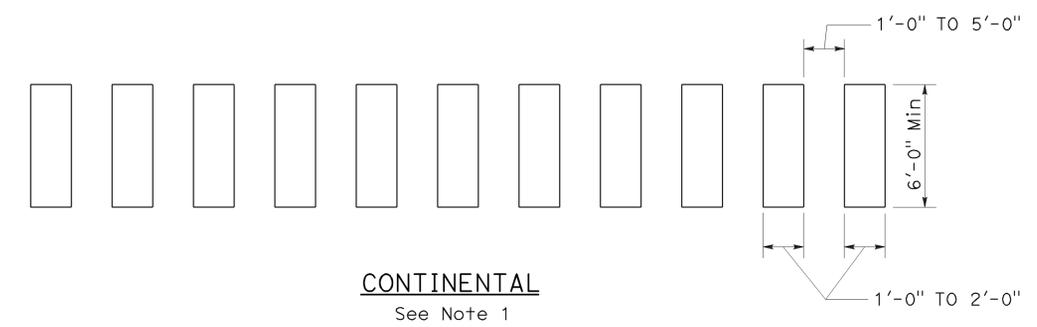
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER

July 20, 2012  
 PLANS APPROVAL DATE

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

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

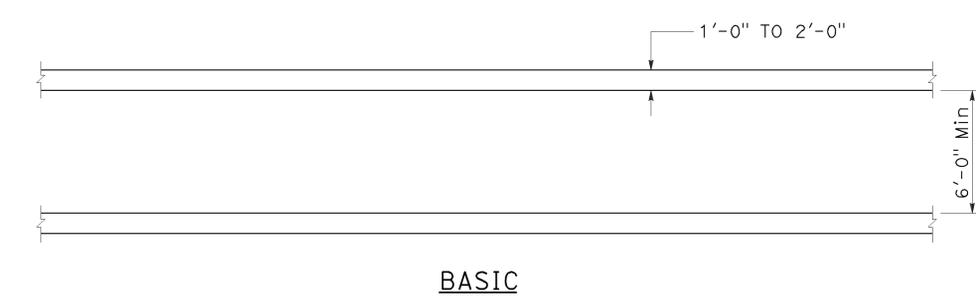
TO ACCOMPANY PLANS DATED 3-4-13



**HIGHER VISIBILITY CROSSWALKS**

**NOTES:**

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



**BASIC**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
CROSSWALKS**

NO SCALE

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

**REVISED STANDARD PLAN RSP A24F**

**2010 REVISED STANDARD PLAN RSP A24F**