

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 ACSTPE-X037(173)E  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN LOS ANGELES COUNTY**  
**AT**  
**VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	1	42





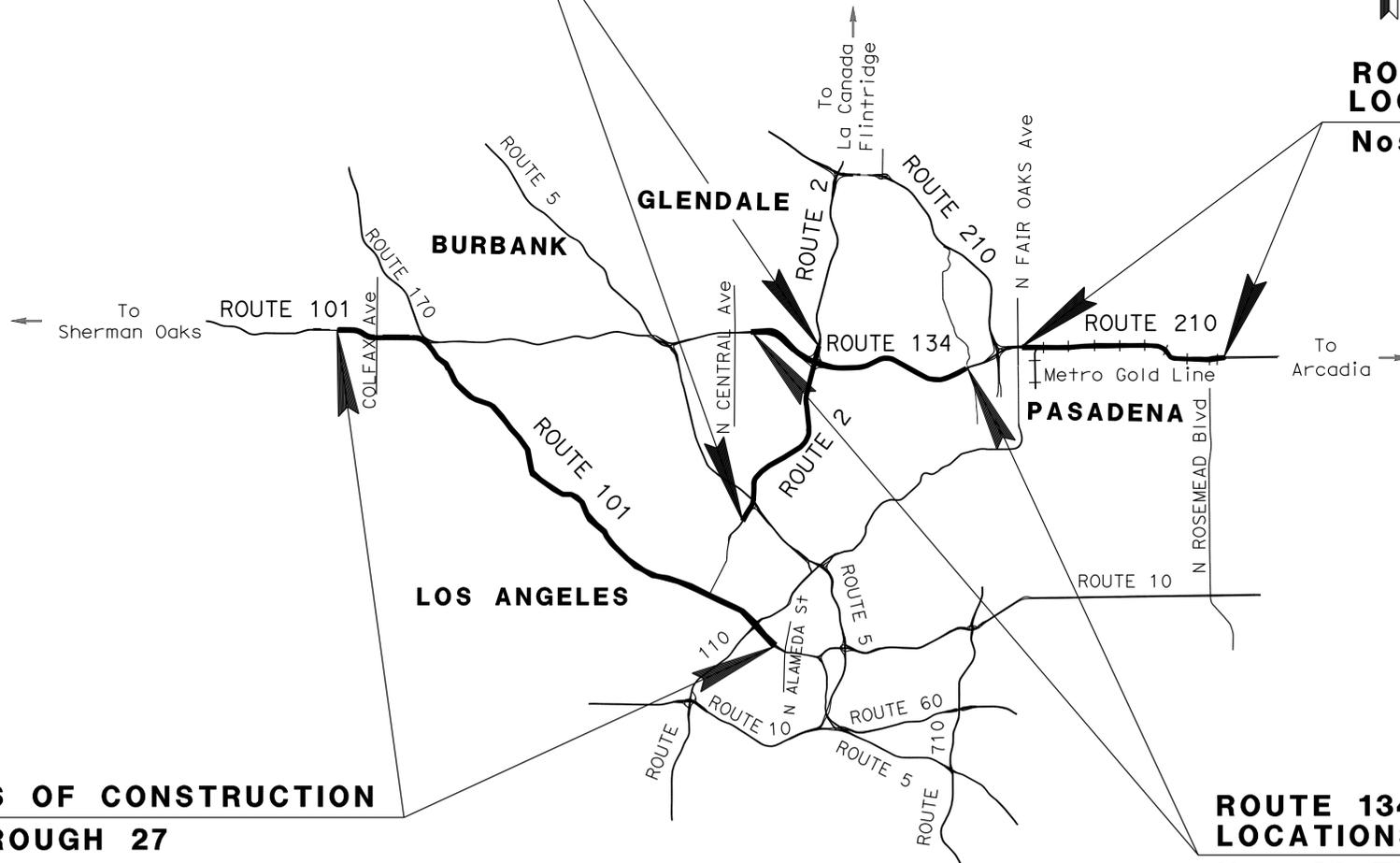
LOCATION MAP

**ROUTE 2**  
**LOCATIONS OF CONSTRUCTION**  
**Nos. 1 THROUGH 5**

**ROUTE 210**  
**LOCATIONS OF CONSTRUCTION**  
**Nos. 35 THROUGH 64**

**ROUTE 101**  
**LOCATIONS OF CONSTRUCTION**  
**Nos. 6 THROUGH 27**

**ROUTE 134**  
**LOCATIONS OF CONSTRUCTION**  
**Nos. 28 THROUGH 34**



**NOTE:**  
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

  
 LICENSED LANDSCAPE ARCHITECT  
 August 11, 2014  
 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.



PROJECT MANAGER  
**JAVAD RAHIMZADEH**  
 SENIOR LANDSCAPE ARCHITECT  
**RON RUSSAK**

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

NO SCALE

DATE PLOTTED => 15-AUG-2014  
 TIME PLOTTED => 10:52  
 LAST REVISION 07-21-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 SUZIE KEARNS  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 434,210	Var	2	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT

8-11-14  
 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.

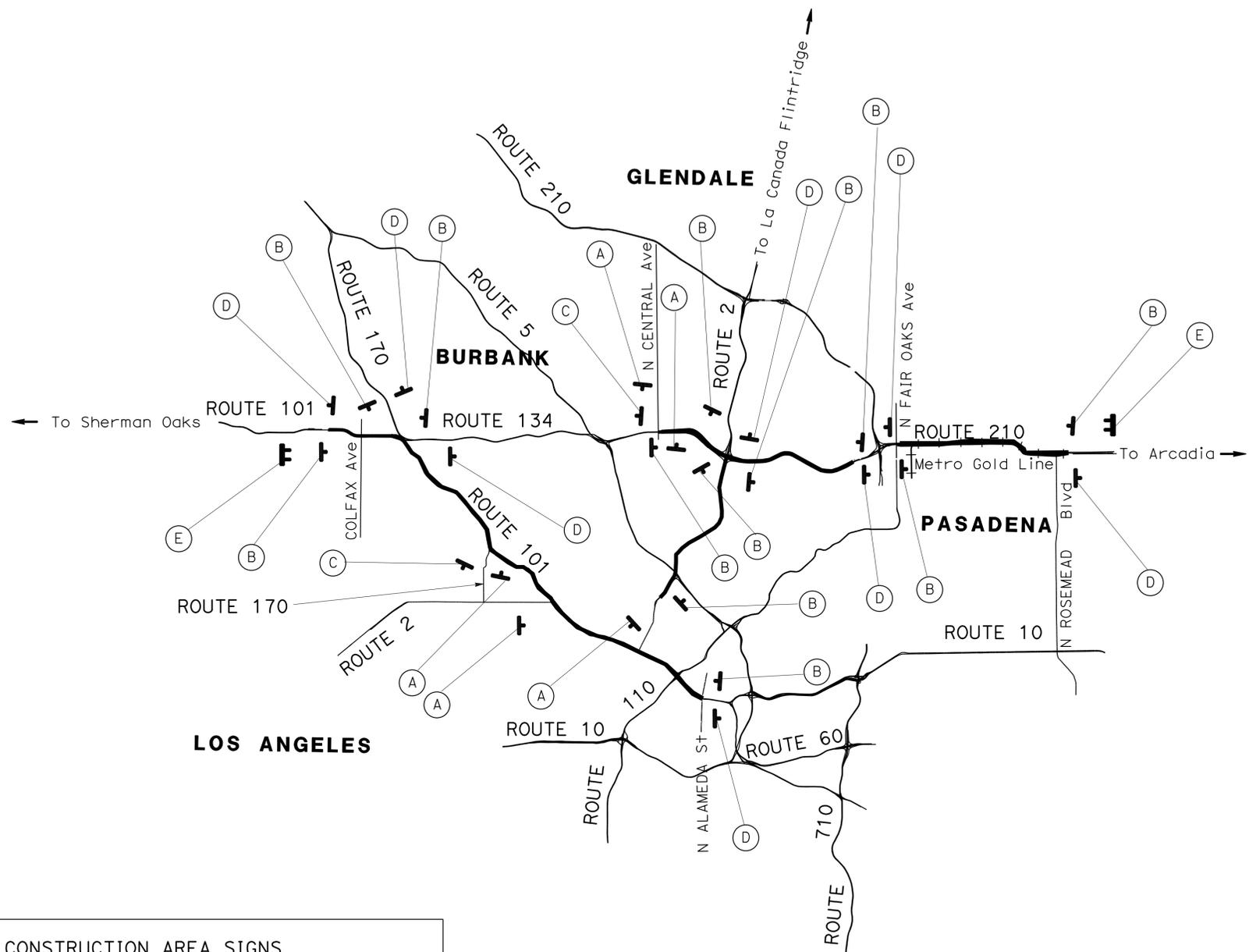
**LOCATIONS OF CONSTRUCTION**

Loc No. ④	ROUTE	DIRECTION	PM	Loc No. ④	ROUTE	DIRECTION	PM	Loc No. ④	ROUTE	DIRECTION	PM
1	2	NB	16.3	23	101	SB	3.7	45	210	WB	R27.9
2	2	NB	16.5	24	101	SB	3.2	46	210	WB	R28.2
3	2	NB	R17.4	25	101	SB	3.0	47	210	WB	R28.3
4	2	SB	16.8	26	101	SB	2.9	48	210	WB	R28.4
5	2	SB	16.5	27	101	SB	2.2	49	210	WB	R28.6
6	101	NB	2.6	28	134	WB	R7.8	50	210	WB	R28.7
7	101	NB	2.9	29	134	WB	R8.0	51	210	WB	R28.8
8	101	NB	3.9	30	134	WB	R12.2	52	210	EB	R28.7
9	101	NB	4.3	31	134	WB	R12.4	53	210	EB	R28.6
10	101	NB	4.7	32	134	EB	R12.2	54	210	EB	R28.4
11	101	NB	4.8	33	134	EB	R12.1	55	210	EB	R28.3
12	101	NB	5.1	34	134	EB	R7.8	56	210	EB	R28.1
13	101	NB	5.1	35	210	WB	R26.2	57	210	EB	R27.9
14	101	NB	5.1	36	210	WB	R26.3	58	210	EB	R27.7
15	101	NB	5.5	37	210	WB	R26.4	59	210	EB	R27.5
16	101	NB	5.6	38	210	WB	R26.5	60	210	EB	R27.1
17	101	NB	5.7	39	210	WB	R26.6	61	210	EB	R27.0
18	101	NB	6.7	40	210	WB	R26.9	62	210	EB	R26.9
19	101	NB	6.9	41	210	WB	R27.0	63	210	EB	R26.4
20	101	NB	7.6	42	210	WB	R27.1	64	210	EB	R26.1
21	101	NB	7.8	43	210	WB	R27.3				
22	101	SB	11.3	44	210	WB	R27.7				

**LOCATIONS OF CONSTRUCTION**  
**LC-1**

LAST REVISION: 00-00-00      DATE PLOTTED => 15-AUG-2014      TIME PLOTTED => 10:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	3	42
		Ahmed Gaber 6/24/14			
		REGISTERED CIVIL ENGINEER DATE			
		8-11-14			
		PLANS APPROVAL DATE			
<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>					



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
(A)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	5
(B)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	12
(C)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	2
(D)	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	8
(E)	C40A (CA)	144" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	2

NOTES:

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

CONSTRUCTION AREA SIGNS

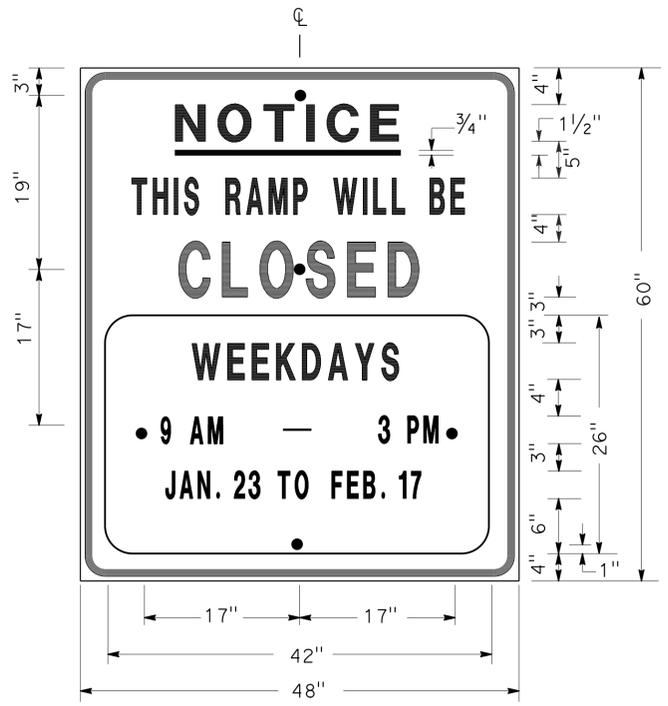
NO SCALE

CS-1

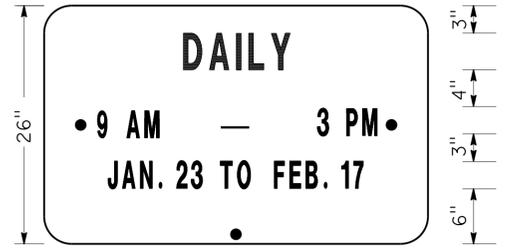
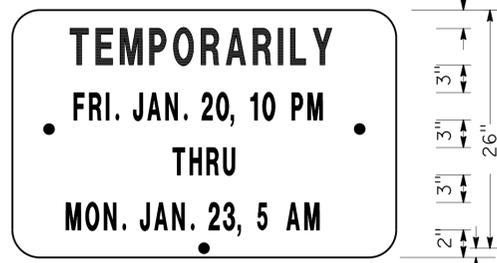
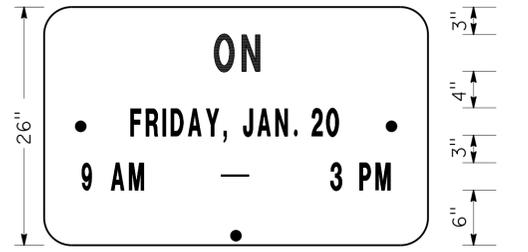
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 CALCULATED/DESIGNED BY: MOSTAFA ARYA  
 CHECKED BY: AHMED GABER  
 REVISED BY: MOSTAFA ARYA  
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	4	42
			REGISTERED CIVIL ENGINEER DATE: 02-21-14 PLANS APPROVAL DATE: 8-11-14 <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>		



SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

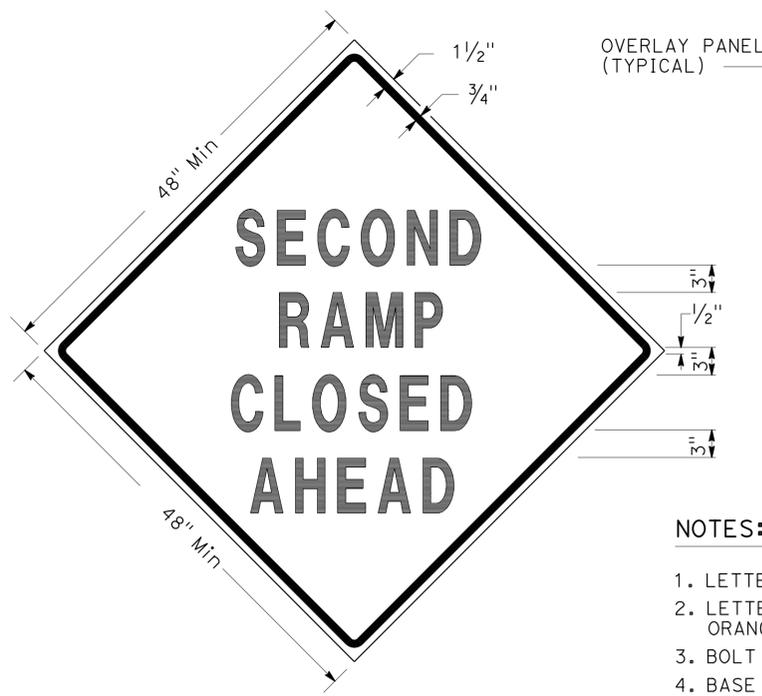
**NOTES:** SIGN SP-1

- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- BOLT HOLES MUST BE 3/8" DIAMETER.
- BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
- SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

\* CONDENSED SPACING IF NECESSARY

**SPECIAL ADVANCE NOTICE PUBLICITY SIGN**



SIGN SP-3



SIGN SP-5

**NOTES:** SIGNS SP-3 & SP-5

- LETTERS - 6" SERIES D.
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- BOLT HOLES MUST BE 3/8" DIAMETER.
- BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
- SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
- SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

**SPECIAL SIGNS FOR EXIT RAMP CLOSURES**



SIGN SP-4

**NOTES:** SIGN SP-4

- LETTERS - 6" SERIES C.
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
- BOLT HOLES MUST BE 3/8" DIAMETER.
- BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
- SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

**SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES**

**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURES, DETOUR SIGNS,  
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM

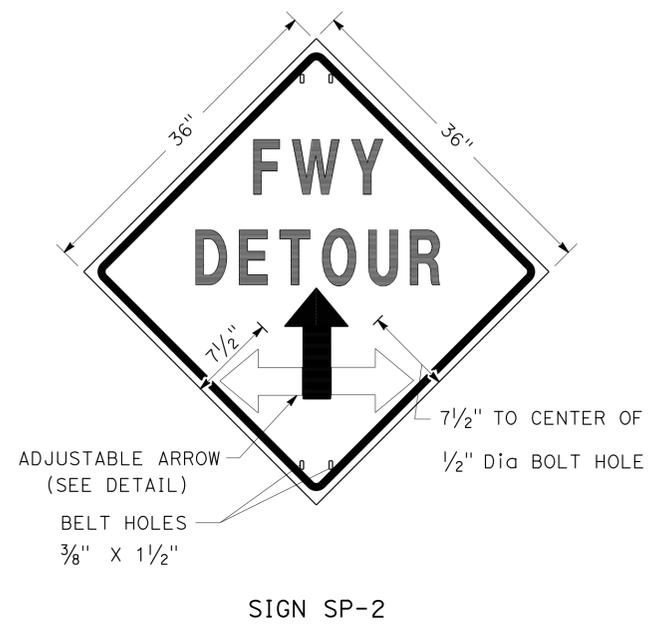
FUNCTIONAL SUPERVISOR  
 MARTIN OREGEL

CALCULATED/DESIGNED BY  
 CHECKED BY

ALBERT K YU  
 JOCELYN C CHIANG

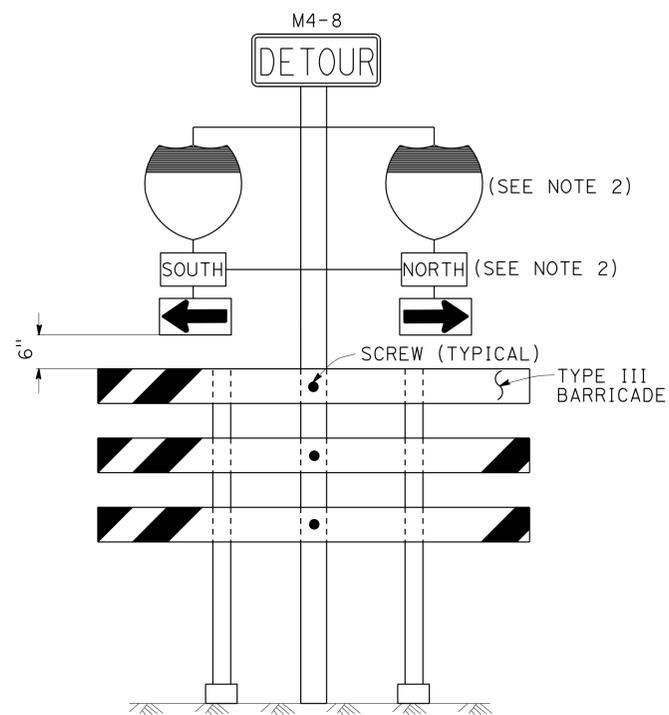
REVISED BY  
 DATE REVISED

JC  
 2/14

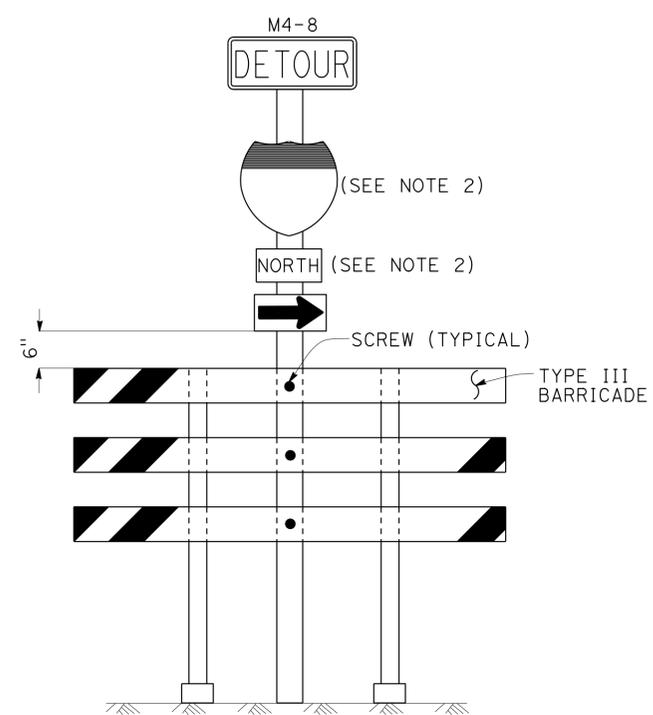


- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
  - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
  - BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
  - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

**ABBREVIATION**  
 (CA) CALIFORNIA CODE



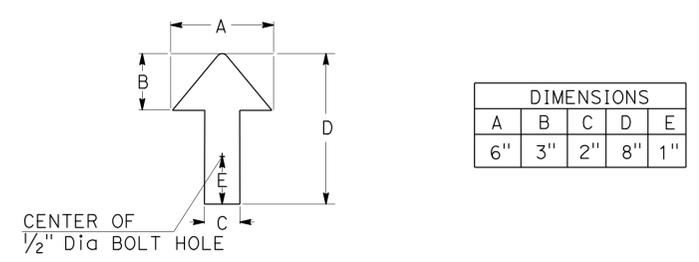
**SIGN SP-6 (SEE NOTE 1)**



**SIGN SP-7 (SEE NOTE 1)**

- NOTES:** SIGNS SP-6 & SP-7
- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
  - USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

**SPECIAL PORTABLE FREEWAY DETOUR SIGNS**



**ADJUSTABLE ARROW DETAIL**

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR RAMP CLOSURES, DETOUR SIGNS,**  
**AND MISCELLANEOUS DETAILS**  
**SHEET 2 OF 2**  
 NO SCALE

**THD-2**

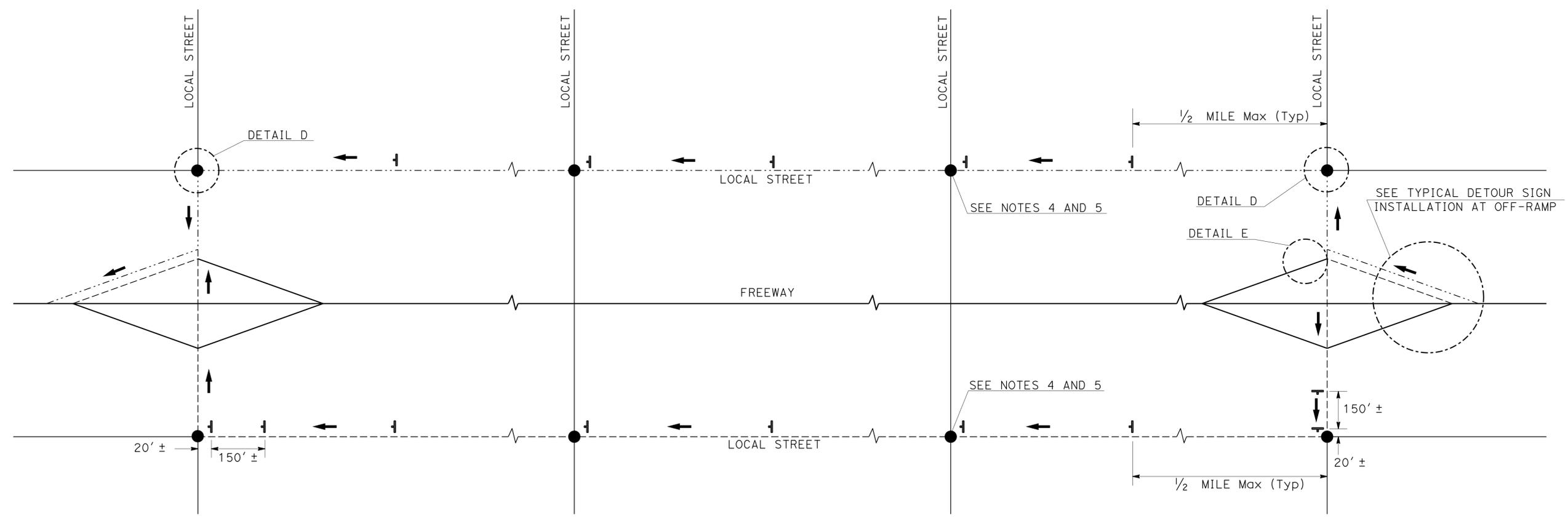
LAST REVISION | DATE PLOTTED => 15-AUG-2014  
 00-00-00 | TIME PLOTTED => 10:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	6	42
<i>Martin Oregel</i> 2-21-14 REGISTERED CIVIL ENGINEER DATE					
8-11-14 PLANS APPROVAL DATE					
<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>					



- LEGEND**
- ↓ SIGN SP-2
  - AND/OR DESIGNATED DETOUR ROUTE
  - DETOUR DIRECTION
  - CONTROLLED INTERSECTION

- NOTES:**
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
  - SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
  - SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
  - SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
  - UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
  - EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.



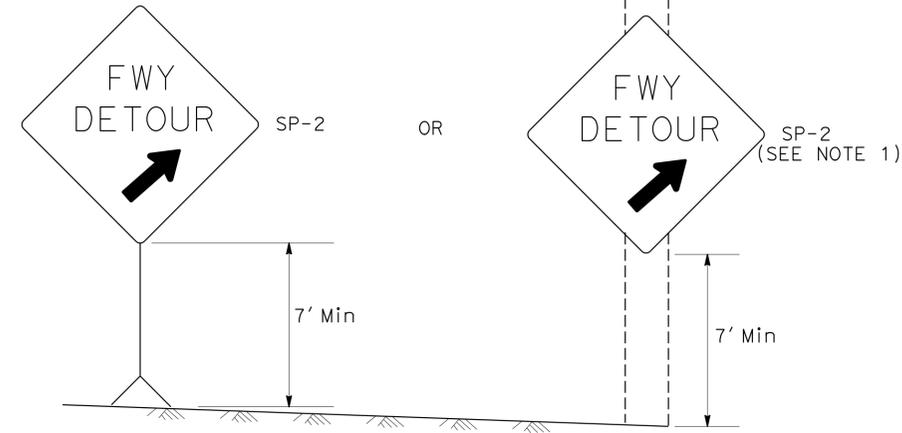
**TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE**

**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR DETOUR SIGN INSTALLATION  
 ALONG DESIGNATED DETOUR ROUTE  
 SHEET 1 OF 3  
 NO SCALE  
 THD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CALCULATED/DESIGNED BY: ALBERT K YU  
 CHECKED BY: JOCELYN C CHIANG  
 REVISED BY: JC  
 DATE REVISED: 2/14

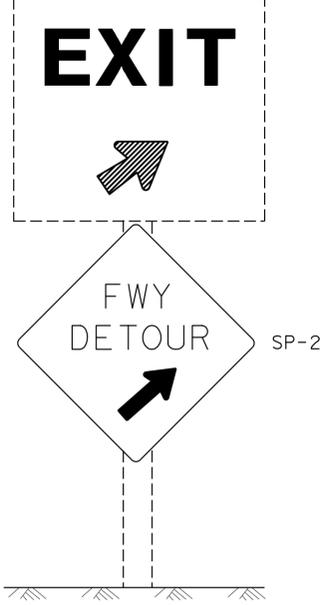
x  
x  
x  
x  
x  
x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	7	42
<i>Martin Oregel</i> 2-21-14 REGISTERED CIVIL ENGINEER DATE					
8-11-14 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.					



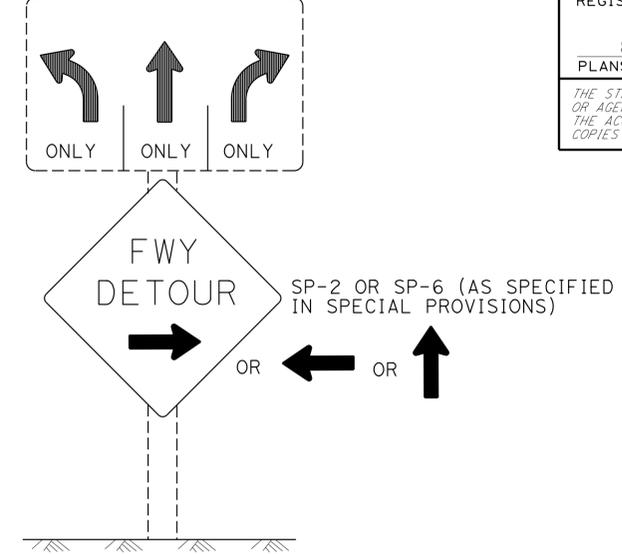
DETAIL A (SEE NOTE 3)

Exist E5-1, G84-2 (CA) OR G84-3 (CA)

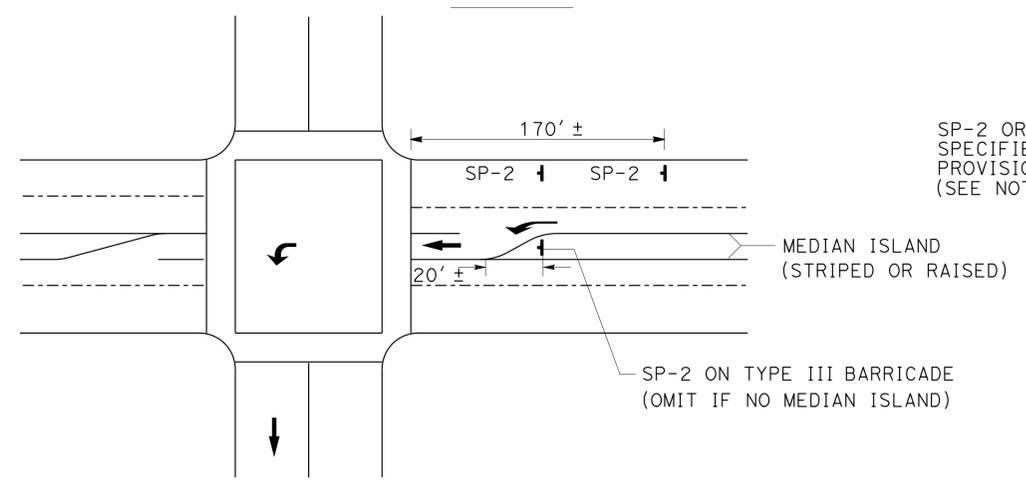


DETAIL B (SEE NOTE 3)

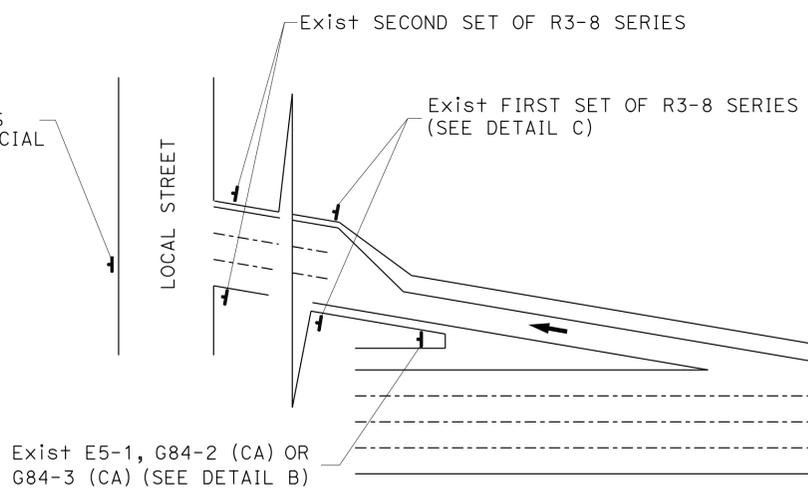
Exist R3-8 SERIES



DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL D



DETAIL E

**TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP**

- LEGEND**
- TRAFFIC CONE
  - † TEMPORARY TRAFFIC CONTROL SIGN
  - ➔ DETOUR DIRECTION
  - EXISTING OVERHEAD SIGN

**SIGN CODE LEGEND**

XXYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)  
 XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR DETOUR SIGN INSTALLATION  
 ALONG DESIGNATED DETOUR ROUTE  
 SHEET 2 OF 3**

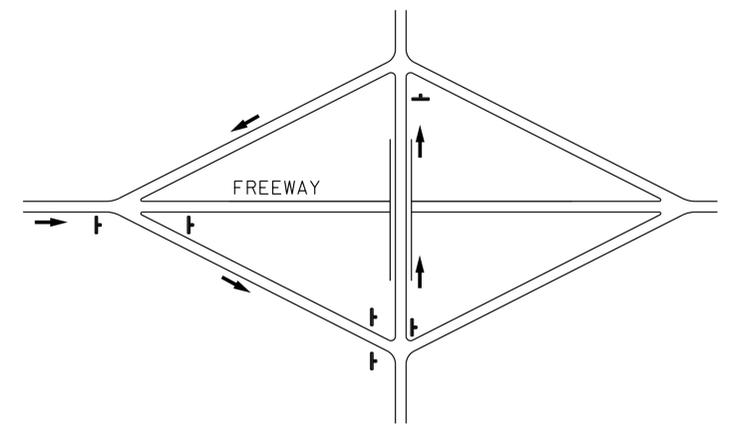
NO SCALE **THD-4**

- NOTES:** SIGN SP-2
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
  - SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
  - OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
  - SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
  - IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS MUST BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
  - EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

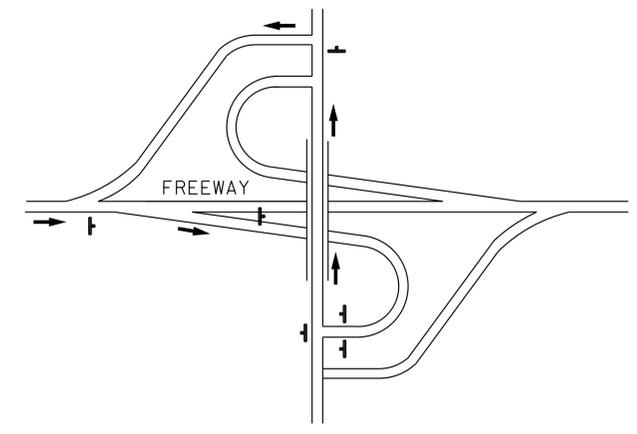
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CHECKED BY: JOCELYN C CHIANG  
 REVISIONS: 2/14  
 DESIGNED BY: ALBERT K YU  
 DATE: 2/14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM

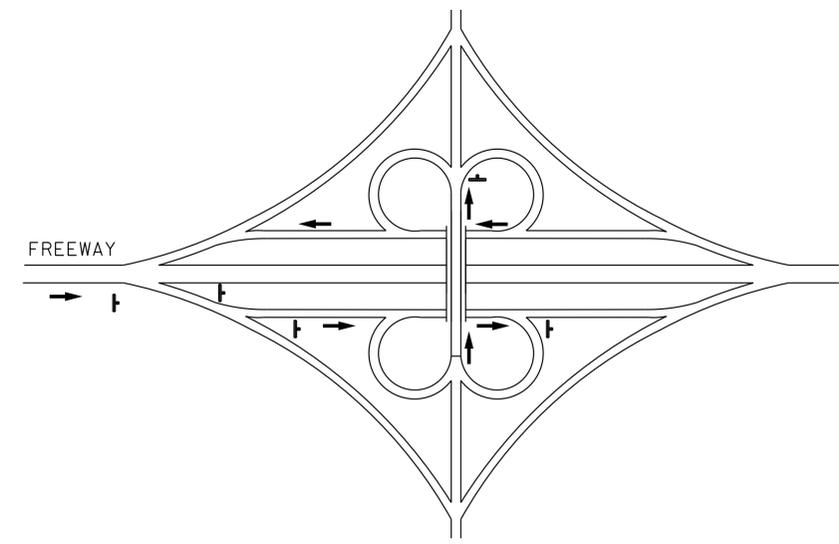
FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 REVISED BY: ALBERT K YU, JOCELYN C CHIANG  
 DATE REVISED: 2/14  
 JC



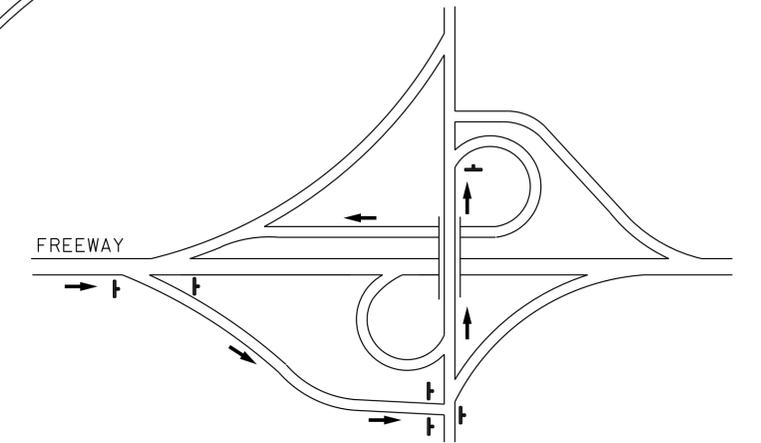
TYPE I



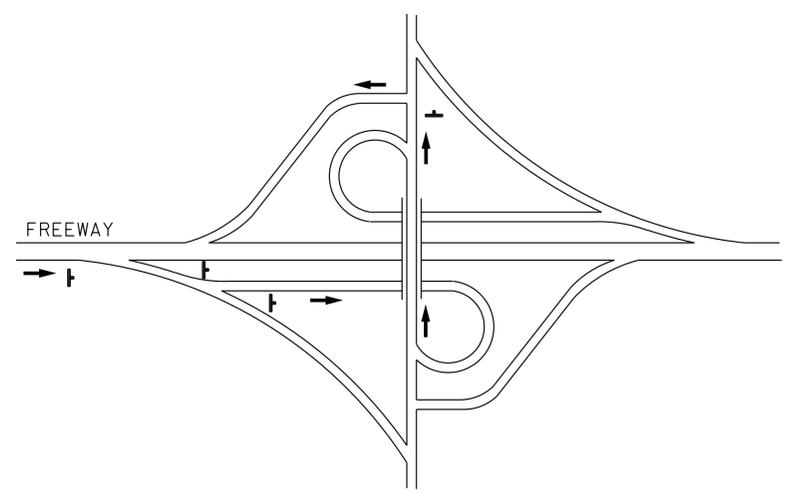
TYPE II



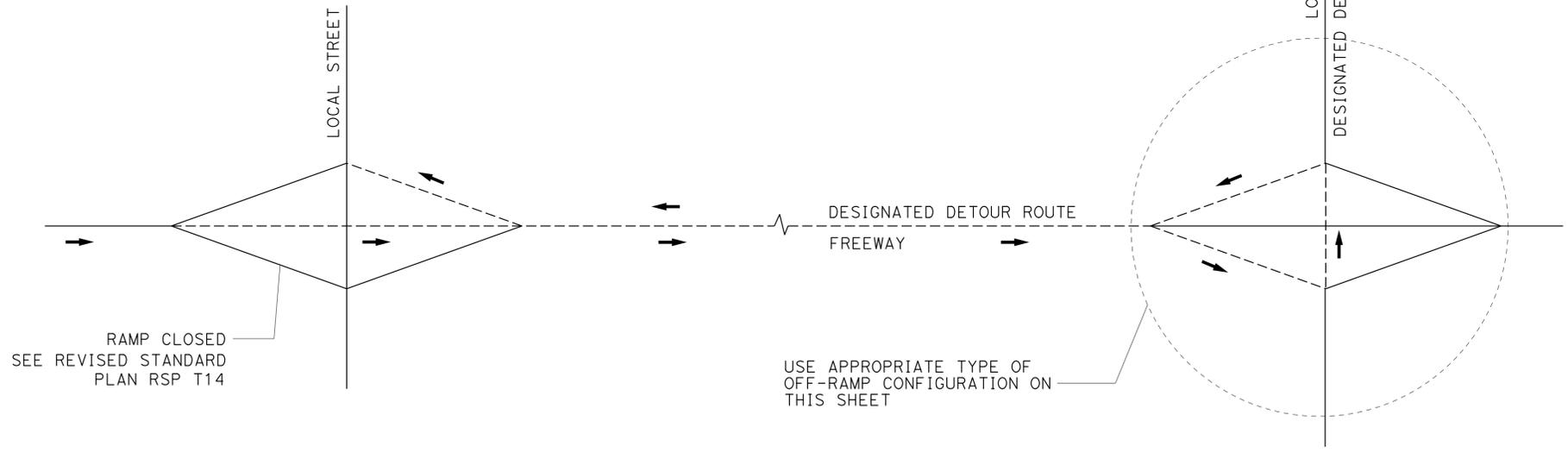
TYPE III



TYPE IV



TYPE V



TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

**TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE**

**NOTES:**

- FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS MUST BE DETERMINED BY THE ENGINEER.
- SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

**LEGEND**

- SIGN SP-2
- DETOUR DIRECTION
- DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 3 OF 3**

NO SCALE

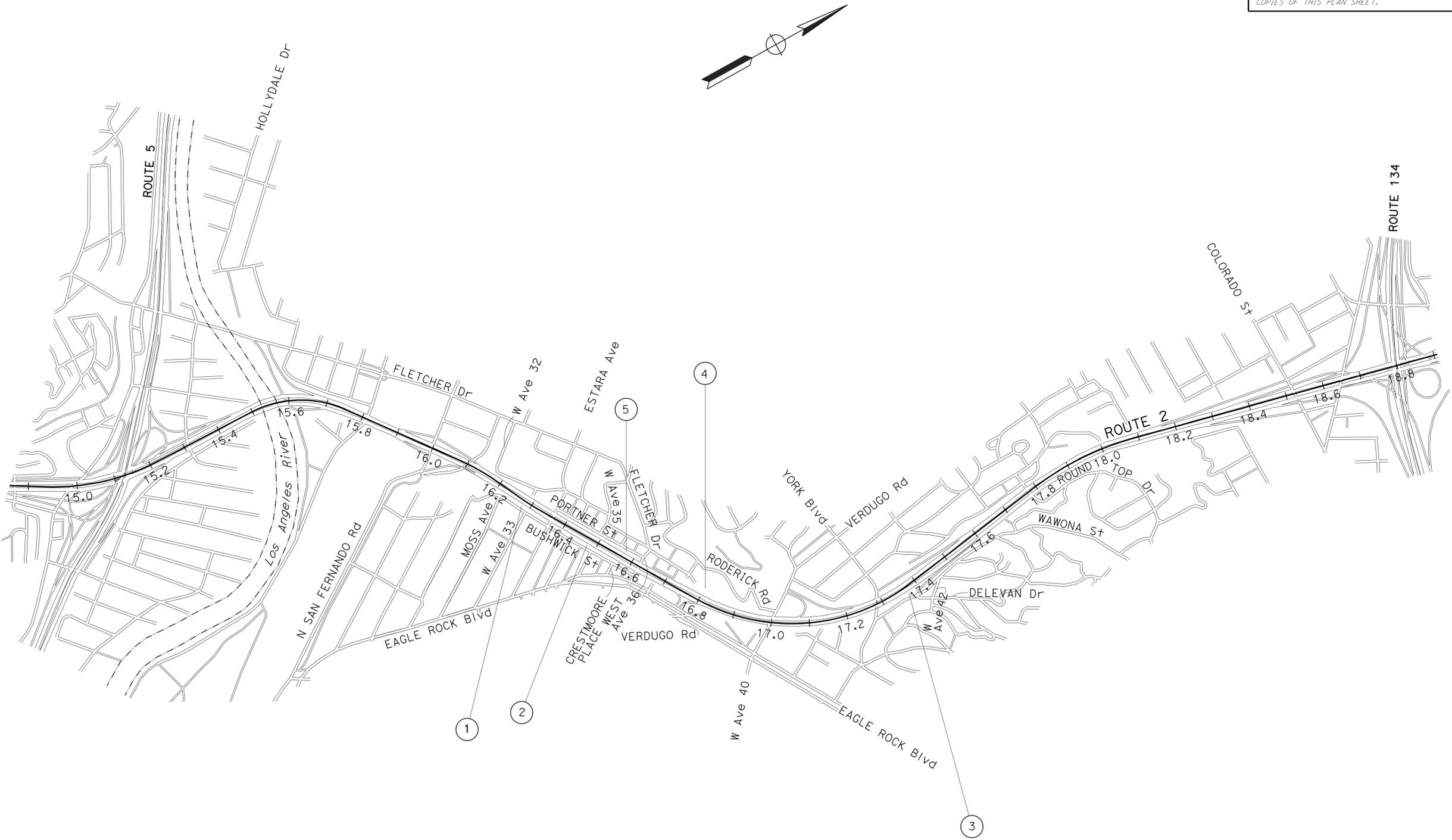
**THD-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RON RUSSAK  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 SUZIE KEARNS  
 PATTY WATANABE  
 REVISED BY  
 DATE REVISED

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	9	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3168  
 8-11-14  
 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.



**LANDSCAPE KEY MAP**  
 NO SCALE  
**LK-1**

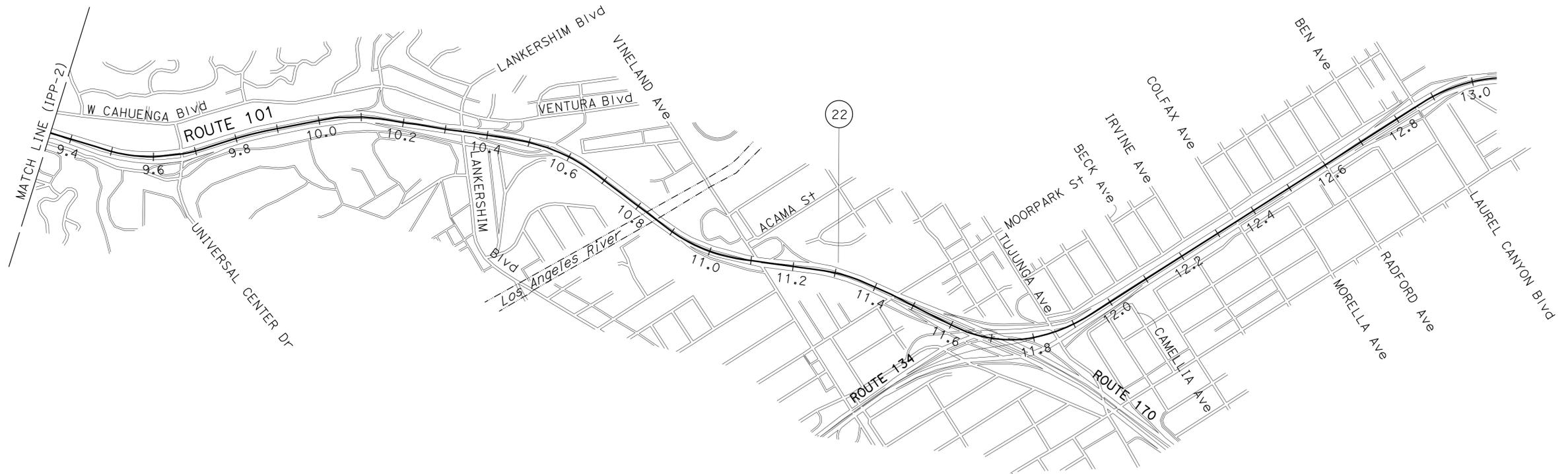
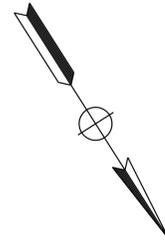
LAST REVISION DATE PLOTTED => 15-AUG-2014  
 00-00-00 TIME PLOTTED => 10:53



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 434,210	Var	11	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3168  
 8-11-14  
 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:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

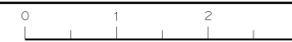


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	SUZIE KEARNS	REVISED BY	
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	PATTY WATANABE	DATE REVISED	

**LANDSCAPE KEY MAP**

NO SCALE

**LK-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134, 210	Var	12	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3168  
 8-11-14  
 PLANS APPROVAL DATE  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	SUZIE KEARNS	8-11-14
			PATTY WATANABE	

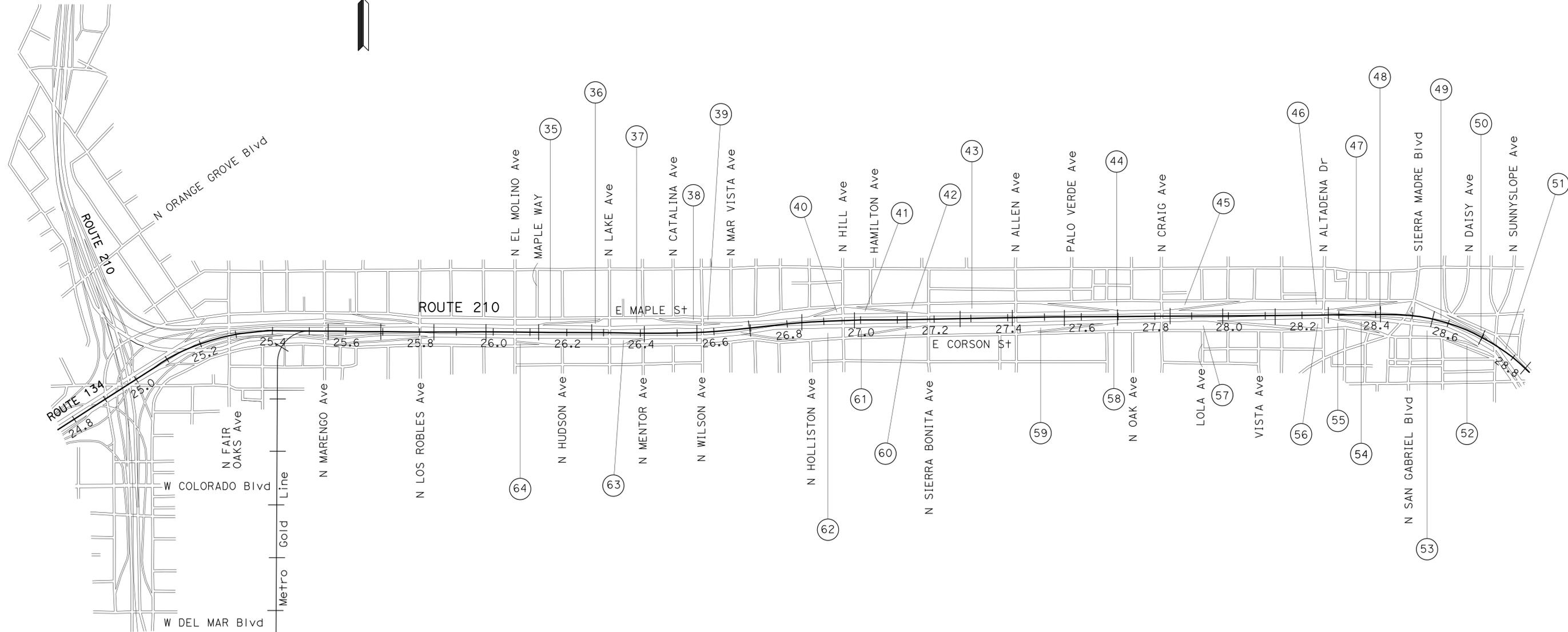
**LANDSCAPE KEY MAP**  
 NO SCALE  
**LK-4**

LAST REVISION     
 DATE PLOTTED => 15-AUG-2014     
 00-00-00     
 TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	13	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3168  
 8-11-14  
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**LANDSCAPE KEY MAP**  
 NO SCALE

**LK-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	SUZIE KEARNS PATTY WATANABE
			DATE REVISED



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

### IRRIGATION LEGEND

TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (psi)	PLUS/MINUS 5%				SPRINKLER ASSEMBLY							REMARKS				
				DISCHARGE		RADIUS (F+)	WIDTH x LENGTH (F+)	FLOW SHUT OFF DEVICE	RISER			POP-UP		TREE WELL					
				GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)				TYPE	MATERIAL	SIZE (IPS INCH)	HEIGHT (INCH)	TYPE	INLET CONNECTION (NPT INCH)		SPRINKLER PROTECTOR (TYPE)	HEIGHT (INCH)		
																		PLASTIC	GALVANIZED
C-2	RISER SPRINKLER ASSEMBLY	—	30	—	.25	—	5	—	—	v	x	—	1/2"	—	—	—	—	FLOOD BUBBLER	TWO PER TREE ONE PER VINE/SHRUB

**X IN BOX DENOTES REQUIREMENT**

**APPLICABLE WHEN CIRCLED BELOW:**

- 1 - SEE SPECIAL PROVISIONS.
- 2 - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
- 3 - VINYL-COATED CAST IRON HOUSING.
- 4 - SWING JOINTS REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
- 5 - UNLESS OTHERWISE SHOWN ON PLANS.

**RISER SPRINKLER ASSEMBLY (C-2) PIPE SIZING**

NUMBER OF SPRINKLERS	SIZE OF PIPE (SPRINKLER=0.25 GPM)
1 - 32	3/4"
33 - 48	1"
49 - 88	1 1/4"
89 - 120	1 1/2"
121 - 200	2"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	14	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT

8-11-14  
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## IRRIGATION SPRINKLER SCHEDULE

**ISS-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, <del>134,210</del>	Var	15	42

*Patricia R. Watanabe*  
LICENSED LANDSCAPE ARCHITECT

8-11-14  
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**IRRIGATION FACILITIES - ROUTE 2**

DIRECTION	LOCATION		DESCRIPTION	RISER SPRINKLER ASSEMBLY			REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC	REMARKS
	No.	PM		TYPE	SPACING	EA	SIZE	EA	SIZE	LF	LF*	
NB	1	16.3	NB Rte 2 260' SOUTH OF ESTARA Ave OC @ RETAINING/SOUNDWALL	FLOOD BUBBLER	10' O/C	19	1"	1	3/4"	208	800	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO Exist RCV E-6. LOCATE NEW CONTROLLER 'SB' ADJACENT TO Exist IRRIGATION POC @ ESTARA Ave OC
	2	16.5	NB Rte 2 NORTH OF ESTARA Ave OC @ RETAINING/SOUNDWALL	FLOOD BUBBLER	10' O/C	120	1 1/2"	1	3/4" 1" 1 1/2"	700 400 10	1,500	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO Exist RCV E-9. CONNECT CNC TO CONTROLLER 'SB' ADJACENT TO Exist IRRIGATION POC @ ESTARA Ave OC
	3	17.4	NB Rte 2 NORTH OF YORK Ave UC @ RETAINING WALL FACING DEVELAN Dr	FLOOD BUBBLER	10' O/C	126	1 1/2"	1	3/4" 1" 1 1/2"	800 300 10	200	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO Exist RCV F-8. CONNECT CNC TO NEW CONTROLLER 'SC' ADJACENT TO Exist IRRIGATION POC @ Ave 36 OC
SB	4	16.8	SB Rte 2 SOUTH OF VERDUGO Rd UC @ TOP OF SLOPE @ SOUNDWALL	FLOOD BUBBLER	10' O/C	51	1"	1	3/4" 1"	400 100	900	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO Exist RCV D-7. CONNECT CNC TO NEW CONTROLLER 'SC' ADJACENT TO Exist IRRIGATION POC @ ESTARA Ave OC
	5	16.5	SB Rte 2 SOUTH OF W Ave 36 OC @ RETAINING WALL	FLOOD BUBBLER	10' O/C	48	1"	1	3/4" 1" 1 1/2"	400 76 10	1,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO Exist RCV E-1 @ YORK Ave UC CONNECT CNC TO NEW CONTROLLER 'SD' ADJACENT TO NB Rte 2 @ YORK Blvd UC

\* FOR BIDDING PURPOSES ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED  
 RUSAK

**IRRIGATION QUANTITIES  
IQ-1**

LAST REVISION | DATE PLOTTED => 15-AUG-2014  
 00-00-00 | TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	16	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
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### IRRIGATION FACILITIES - ROUTE 101

DIRECTION	LOCATION		DESCRIPTION	RISER SPRINKLER ASSEMBLY			REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC	REMARKS
	No.	PM		TYPE	SPACING	EA	SIZE	EA	SIZE	LF		
NB	6	2.6	NB Rte 101 SOUTH OF BONNIE BRAE St OC @ TOP OF PAVED SLOPE @ BURLINGTON Ave	FLOOD BUBBLER	10' O/C	30	1"	1	3/4"	350	700	CONNECT NEW RCV TO Exist 2" MAINLINE @ TOP OF SLOPE AND CONNECT RCV TO Exist ICC 'J' @ BONNIE BRAE OC
	7	2.9	NB Rte 101 SOUTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	FLOOD BUBBLER	10' O/C	30	1"	1	3/4"	400	600	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND CONNECT TO Exist ICC 'G' @ ALVARADO St OC
	8	3.9	NB Rte 101 NORTH OF SILVER LAKE Blvd UC @ BACK SIDE OF SOUNDWALL @ NB ON RAMP TO HOOVER St UC	FLOOD BUBBLER	10' O/C	58	1"	1	3/4"	600	550	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'C' @ NB HOOVER St UC
	9	4.3	NB Rte 101 NORTH OF VIRGIL Ave UC @ BACK SIDE OF SOUNDWALL FROM WESTMORELAND Ave TO JUANITA Ave	FLOOD BUBBLER	10' O/C	59	1"	1	3/4"	1,000	700	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'E' @ NB 101 @ WESTMORELAND Ave
	10	4.7	NB Rte 101 NORTH OF HELIOTROPE Dr UC @ BACK SIDE OF SOUNDWALL TO KENMORE Ave	FLOOD BUBBLER	10' O/C	30	1"	1	3/4"	400	650	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'G' @ NB 101 @ HELIOTROPE Ave UC
	11	4.8	NB Rte 101 SOUTH OF MELROSE Ave UC @ BACK SIDE OF SOUNDWALL @ MELROSE Ave OFF RAMP	FLOOD BUBBLER	10' O/C 6' O/C	80 32	1"	1	3/4" 1"	600 160	450	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'H' @ SB 101 @ MELROSE Ave UC
	12	5.1	NB Rte 101 NORTH OF MELROSE Ave UC @ BACK SIDE OF SOUNDWALL FROM MELROSE Ave UC TO NORMANDIE Ave ON RAMP	FLOOD BUBBLER	10' O/C	54	1"	2	3/4" 1"	600 50	1,750	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'I' @ SB 101 @ MELROSE Ave UC
	13	5.1	NB Rte 101 NORTH OF NORMANDIE Ave UC @ NORMANDIE Ave ON RAMP @ BACK SIDE OF SOUNDWALL	FLOOD BUBBLER	10' O/C	25	1"	1	3/4" 1"	350 100	500	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'J' @ SB 101 @ NORMANDIE Ave UC
	14	5.1	NB Rte 101 NORTH OF NORMANDIE Ave UC @ BACK SIDE OF SOUNDWALL FROM NORMANDIE Ave ON RAMP	FLOOD BUBBLER	10' O/C	43	1"	1	3/4" 1"	550 180	600	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'J' @ SB 101 @ NORMANDIE Ave UC
	15	5.5	NB Rte 101 SOUTH OF SANTA MONICA Blvd OC @ SANTA MONICA Blvd OFFRAMP @ BACK SIDE OF RETAINING WALL	FLOOD BUBBLER	10' O/C	34	1"	1	3/4"	400	450	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'L' @ NB 101 @ SANTA MONICA Blvd OC
	16	5.6	NB Rte 101 NORTH OF SANTA MONICA Blvd OC @ TOP OF RETAINING WALL	FLOOD BUBBLER	10' O/C	233	1"	1	3/4" 1"	11,800 350	1,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO TOP OF RETAINING WALL CONNECT TO Exist ICC 'L' @ NB 101 @ SANTA MONICA Blvd OC
	17	5.7	NB Rte 101 NORTH OF SANTA MONICA Blvd OC @ TOP OF SLOPE @ SOUNDWALL TO WESTERN Ave OC	FLOOD BUBBLER	10' O/C	46	1"	1	3/4"	500	400	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'L' @ NB 101 @ SANTA MONICA Blvd OC
	18	6.7	NB Rte 101 NORTH OF BRONSON Ave OC @ TOP OF RETAINING WALL TO YUCCA St	FLOOD BUBBLER	10' O/C	65	1 1/2"	1	3/4" 1"	750 50	600	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SOUNDWALL AND CONNECT TO Exist ICC 'E' @ NB 101 @ HOLLYWOOD Blvd NB ON RAMP
	19	6.9	NB Rte 101 SOUTH OF GOWERS St UC @ BACK OF WALL	FLOOD BUBBLER	10' O/C	106	1"	1	3/4" 1"	1,100 50	550	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO WALL CONNECT RCV TO Exist ICC 'F' LOCATED @ NB 101 @ NB GOWER St OFF RAMP
	20	7.6	NB Rte 101 NORTH OF CAHUENGA Blvd UC @ TOP OF RETAINING WALL	FLOOD BUBBLER	10' O/C	96	1"	1	3/4" 1" 1 1/2"	1,370 500 25	1,100	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'M' @ NB 101 @ IRIS CIRCLE

\* FOR BIDDING PURPOSES ONLY

## IRRIGATION QUANTITIES IQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISOR BY  
 DATE REVISED  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RON RUSSAK

LAST REVISION DATE PLOTTED => 15-AUG-2014  
 00-00-00 TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, <del>134,210</del>	Var	17	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 8-11-14  
 PLANS APPROVAL DATE

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**IRRIGATION FACILITIES - ROUTE 101**

DIRECTION	LOCATION		DESCRIPTION	RISER SPRINKLER ASSEMBLY			REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC	REMARKS			
	No.	PM		TYPE	SPACING	EA	SIZE	EA	SIZE	LF			LF*		
NB	21	7.8	NB Rte 101 @ ODIN St OFFRAMP @ BACKSIDE OF WALL	FLOOD BUBBLER	10' 0"/C	2	1"	1	3/4"	210	200	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'N' @ NB 101 HIGHLAND Ave OFF RAMP			
										1"	50				
SB	22	11.3	SB Rte 101 @ VINELAND Ave OFF RAMP ON BACK SIDE OF SOUNDWALL	FLOOD BUBBLER	10' 0"/C	110			3/4"	700	600	CONNECT NEW RCV TO Exist 3" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'F' @ SB 101 @ VINELAND St OC			
									1"	160					
									1 1/4"	400					
				23	3.7	SB Rte 101 @ VENDOME St UC @ BACK SIDE OF SOUNDWALL	FLOOD BUBBLER	10' 0"/C	35	1"	1	3/4"	450	400	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'E' @ SB 101 @ OCCIDENTAL Blvd
24	3.2	SB Rte 101 NORTH OF CORONADO St UC @ BACK SIDE OF SOUNDWALL	FLOOD BUBBLER	10' 0"/C	30	1"	1	3/4"	350	800	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'F' @ SB 101 @ OCCIDENTAL Blvd				
25	3.0	SB Rte 101 NORTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	FLOOD BUBBLER	10' 0"/C	70	1"	1	3/4"	1,100	1,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND CONNECT TO Exist ICC 'H' LOCATED @ SB 101 @ LAKE St				
									1 1/4"	50					
26	2.9	SB Rte 101 SOUTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	FLOOD BUBBLER	10' 0"/C	70	1"	1	3/4"	600	500	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'H' @ SB 101 @ LAKE St				
									1 1/4"	75					
27	2.2	SB Rte 101 NORTH OF EDGEWARE Rd OC @ TOP OF RETAINING WALL	FLOOD BUBBLER	10' 0"/C	65	1"	1	3/4"	500	450	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER CONNECT TO Exist ICC 'M' @ EDGEWARE Rd OC				
									1 1/4"	150					

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 GENE KIMMEL  
 PATTY WATANABE  
 REVISOR BY  
 DATE REVISED  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 SENIOR LANDSCAPE ARCHITECT  
 RON RUSSAK  
 LANDSCAPE ARCHITECTURE

**IRRIGATION QUANTITIES  
IQ-3**

LAST REVISION | DATE PLOTTED => 15-AUG-2014  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, <del>134,210</del>	Var	18	42

*Patricia R. Watanabe*  
LICENSED LANDSCAPE ARCHITECT

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### IRRIGATION FACILITIES - ROUTE 134

DIRECTION	LOCATION		DESCRIPTION	RISER SPRINKLER ASSEMBLY			REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC	REMARKS
	No.	PM		TYPE	SPACING	EA	SIZE	EA	SIZE	LF	LF*	
WB	29	8.0	WB Rte 134 WEST OF GALER PLACE POC @ TOP OF SLOPE @ SOUNDWALL	FLOOD BUBBLER	10' 0"/C	103	1 1/2"	1	3/4"	950	2,400	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO Exist RCV G-5. CONNECT CNC TO Exist ICC 'G' LOCATED AT VERDUGO Rd UC.
	30	12.2	WB Rte 134 200' WEST OF SAN RAPHAEL Ave OC @ TOP OF RETAINING WALL	FLOOD BUBBLER	10' 0"/C	25	1"	1	3/4"	675	800	CONNECT NEW RCV TO Exist 2" MAINLINE CONNECT CNC TO Exist ICC 'F' LOCATED AT SAN RAPHAEL Ave OC
	31	12.4	WB Rte 134 EAST OF SAN RAPHAEL Ave OC @ TOP OF SLOPE @ SOUNDWALL	FLOOD BUBBLER	10' 0"/C	45	1"	1	3/4"	380	200	CONNECT NEW RCV TO Exist 2" MAINLINE CONNECT CNC TO Exist ICC 'F' LOCATED AT SAN RAPHAEL Ave OC
EB	32	12.2	EB Rte 134 900' WEST OF SAN RAPHAEL Ave OC ON COLORADO Blvd SIDE OF SOUNDWALL	FLOOD BUBBLER	10' 0"/C	25	1"	1	3/4"	200	170	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO COLORADO Blvd @ CLUB Rd CONNECT CNC TO Exist ICC 'E' LOCATED AT COLORADO Blvd @ CLUB Rd
	33	12.1	EB Rte 134 1250' WEST OF SAN RAPHAEL Ave OC ON COLORADO Blvd SIDE OF SOUNDWALL	FLOOD BUBBLER	10' 0"/C	15	1"	1	3/4"	225	800	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO COLORADO Blvd @ SAN MIGUEL Rd CONNECT CNC TO Exist ICC 'E' LOCATED AT COLORADO Blvd @ CLUB Rd

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**Caltrans** LANDSCAPE ARCHITECTURE  
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 CALCULATED/DESIGNED BY  
 CHECKED BY  
 GENE KIMMEL  
 PATTY WATANABE  
 REVISED BY  
 DATE REVISED

## IRRIGATION QUANTITIES IQ-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	19	42

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### IRRIGATION FACILITIES - ROUTE 210

DIRECTION	LOCATION		DESCRIPTION	RISER SPRINKLER ASSEMBLY			REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC	REMARKS
	No.	PM		TYPE	SPACING	EA	SIZE	EA	SIZE	LF		
WB	35	26.2	WB Rte 210 WEST OF LAKE Ave OC @ LAKE Ave ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	25	1"	1	3/4"	250	1,830	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV C-6. NEW RCV TO BE LABELED C-11 AND CONNECT TO Exist IC 'C' @ LAKE Ave OC
	36	26.3	WB Rte 210 EAST OF EL MOLINO Ave OC @ LAKE Ave ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	28	1"	1	3/4"	273	100	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV C-9. NEW RCV TO BE LABELED D-12 AND CONNECT TO Exist IC 'C' @ LAKE Ave OC
	37	26.4	WB Rte 210 EAST OF LAKE Ave OC @ LAKE Ave OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	55	1"	1	3/4"	550	1,850	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV E-2. NEW RCV TO BE LABELED E-10 AND CONNECT TO Exist IC 'E' @ LAKE Ave WB OFF RAMP
	38	26.5	WB Rte 210 WEST OF WILSON Ave OC @ LAKE Ave OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	35	1"	1	3/4"	350	450	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV E-2. NEW RCV TO BE LABELED E-10 AND CONNECT TO Exist IC 'E' @ LAKE Ave WB OFF RAMP
	39	26.6	WB Rte 210 EAST OF WILSON Ave OC @ RETAINING WALL	FLOOD BUBBLER	10' O/C	55	1"	1	3/4"	545	400	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV EE-9. NEW RCV TO BE LABELED EE-15 AND CONNECT TO Exist IC 'EE' @ WILSON Ave OC
	40	26.9	WB Rte 210 WEST OF HILL Ave UC @ HILL Ave ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	59	1"	1	3/4"	700	1,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV G-1. NEW RCV TO BE LABELED G-12 AND CONNECT TO Exist IC 'G' @ HILL Ave UC
	41	27.0	WB Rte 210 EAST OF HILL Ave UC @ HILL Ave OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	45	1"	1	3/4"	450	1,450	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV H-2. NEW RCV TO BE LABELED H-12 AND CONNECT TO Exist IC 'H' @ HILL Ave UC
	42	27.1	WB Rte 210 WEST OF SIERRA BONITA Ave UC @ HILL Ave OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	35	1"	1	3/4"	350	1,950	CONNECT NEW RCV TO Exist 3" MAINLINE ADJACENT TO SHOULDER AND Exist RCV G-10B. NEW RCV TO BE LABELED G-10 AND CONNECT TO Exist IC 'G' @ HILL Ave UC
	43	27.3	WB Rte 210 WEST OF ALLEN Ave UC @ RETAINING WALL	FLOOD BUBBLER	10' O/C	10	1"	1	3/4"	100	4,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV B-1. NEW RCV TO BE LABELED B-12 AND CONNECT TO Exist IC 'B' @ SOUTH WEST CORNER OF CRAIG Ave
	44	27.7	WB Rte 210 WEST OF CRAIG Ave UC @ ALLEN Ave OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	65	1"	1	3/4"	670	2,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV A-9. NEW RCV TO BE LABELED A-10 AND CONNECT TO Exist IC 'A' @ NORTH WEST CORNER OF CRAIG Ave
	45	27.9	WB Rte 210 EAST OF CRAIG Ave UC @ RETAINING WALL	FLOOD BUBBLER	10' O/C	75	1"	1	3/4"	750	700	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV C-4. NEW RCV TO BE LABELED C-12 AND CONNECT TO Exist IC 'C' @ NORTH EAST CORNER OF CRAIG Ave
	46	28.2	WB Rte 210 WEST OF ALTADENA Dr UC @ ALTADENA Dr ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	10	1"	1	3/4"	100	4,000	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV D-2. NEW RCV TO BE LABELED D-9 AND CONNECT TO Exist IC 'D' @ SOUTH EAST CORNER OF CRAIG Ave
	47	28.3	WB Rte 210 EAST OF ALTADENA Dr UC @ SIERRA MADRE Blvd ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	50	1"	1	3/4"	500	3,000	CONNECT NEW RCV TO Exist 3" MAINLINE ADJACENT TO SHOULDER AND Exist RCV E-8. NEW RCV TO BE LABELED E-17 AND CONNECT TO Exist IC 'E' @ NORTH EAST CORNER OF SAN GABRIEL Blvd
	48	28.4	WB Rte 210 WEST OF SIERRA MADRE Blvd UC @ SIERRA MADRE Blvd ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' O/C	52	1"	1	3/4"	525	1,200	CONNECT NEW RCV TO Exist 1 1/2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV F-9. NEW RCV TO BE LABELED F-20 AND CONNECT TO Exist IC 'F' @ SOUTH EAST CORNER OF SAN GABRIEL Blvd

\* FOR BIDDING PURPOSES ONLY

## IRRIGATION QUANTITIES IQ-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK  
 CALCULATED/DESIGNED BY: GENE KIMMEL  
 CHECKED BY: PATTY WATANABE  
 REVISED BY: GENE KIMMEL  
 DATE REVISED:



LAST REVISION: DATE PLOTTED => 15-AUG-2014  
 00-00-00 TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	20	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3168  
 8-11-14  
 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.

### IRRIGATION FACILITIES - ROUTE 210

DIRECTION	LOCATION		DESCRIPTION	RISER SPRINKLER ASSEMBLY			REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC	REMARKS
	No.	PM		TYPE	SPACING	EA	SIZE	EA	SIZE	LF		
WB	49	28.6	WB Rte 210 EAST OF SAN GABRIEL Blvd UC @ SAN GABRIEL Blvd OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	48	1"	1	3/4"	480	700	CONNECT NEW RCV TO Exist 3" MAINLINE ADJACENT TO SHOULDER AND Exist RCV E-10. NEW RCV TO BE LABELED E-18 AND CONNECT TO Exist IC 'E' @ NORTH EAST CORNER OF SAN GABRIEL Blvd
	50	28.7	WB Rte 210 WEST OF SUNNYSLOPE Ave UC @ SAN GABRIEL Blvd OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	50	1"	1	3/4"	500	2,200	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV E-19. NEW RCV TO BE LABELED E-21 AND CONNECT TO Exist IC 'E' @ NORTH EAST CORNER OF SAN GABRIEL Blvd
	51	28.8	WB Rte 210 EAST OF SUNNYSLOPE Ave UC @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	30	1"	1	3/4"	300	3,600	CONNECT NEW RCV TO Exist 2 1/2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV E-6. NEW RCV TO BE LABELED E-23 AND CONNECT TO Exist IC 'E' @ NORTH EAST CORNER OF SAN GABRIEL Blvd
EB	52	28.7	EB Rte 210 WEST OF SUNNYSLOPE Ave UC @ SAN GABRIEL Blvd ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	54	1"	1	3/4"	540	2,000	CONNECT NEW RCV TO Exist 3" MAINLINE ADJACENT TO SHOULDER AND Exist RCV F-5. NEW RCV TO BE LABELED F-20 AND CONNECT TO Exist IC 'F' @ SOUTH EAST CORNER OF SAN GABRIEL Blvd
	53	28.6	EB Rte 210 EAST OF ALLEN Ave UC @ HILL Ave ON RAMP @ SOUND WALL	FLOOD BUBBLER	10' 0"/C	59	1"	1	3/4"	585	800	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV F-12. NEW RCV TO BE LABELED F-20 AND CONNECT TO Exist IC 'F' @ SOUTH EAST CORNER OF SAN GABRIEL Blvd
	54	28.4	EB Rte 210 EAST OF ALTADENA Dr UC @ SIERRA MADRE Blvd OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	15	1"	1	3/4"	150	2,800	CONNECT NEW RCV TO Exist 1 1/2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV F-9. NEW RCV TO BE LABELED F-20 AND CONNECT TO Exist IC 'F' @ SOUTH EAST CORNER OF SAN GABRIEL Blvd
	55	28.3	EB Rte 210 EAST OF ALTADENA Dr UC @ SIERRA MADRE Blvd OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	30	1"	1	3/4"	300	3,400	CONNECT NEW RCV TO Exist 1 1/2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV F-18. NEW RCV TO BE LABELED F-19 AND CONNECT TO Exist IC 'F' @ SOUTH EAST CORNER OF SAN GABRIEL Blvd
	56	28.1	EB Rte 210 WEST OF ALTADENA Dr UC @ ALTADENA Dr OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	20	1"	1	3/4"	200	4,600	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV D-2. NEW RCV TO BE LABELED D-9 AND CONNECT TO Exist IC 'D' @ SOUTH EAST CORNER OF CRAIG Ave
	57	27.9	EB Rte 210 WEST OF HILL Ave UC @ HILL Ave ON RAMP @ SOUND WALL	FLOOD BUBBLER	10' 0"/C	100	1"	1	3/4"	1000	700	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV D-7. NEW RCV TO BE LABELED D-12 AND CONNECT TO Exist IC 'D' @ SOUTH EAST CORNER OF CRAIG Ave
	58	27.7	EB Rte 210 EAST OF ALLEN Ave UC @ ALLEN Ave ON RAMP @ SOUND WALL	FLOOD BUBBLER	10' 0"/C	135	1"	1	3/4"	1350	1,900	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV B-10. NEW RCV TO BE LABELED B-11 AND CONNECT TO Exist IC 'B' @ SOUTH WEST CORNER OF CRAIG Ave
	59	27.5	EB Rte 210 EAST OF ALLEN Ave UC @ HILL Ave ON RAMP @ SOUND WALL	FLOOD BUBBLER	10' 0"/C	55	1"	1	3/4"	550	750	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV B-7. NEW RCV TO BE LABELED B-12A AND CONNECT TO Exist IC 'B' @ SOUTH WEST CORNER OF CRAIG Ave
	60	27.1	EB Rte 210 WEST OF SIERRA BONITA Ave UC @ HILL Ave ON RAMP @ SOUND WALL	FLOOD BUBBLER	10' 0"/C	61	1"	1	3/4"	610	1,900	CONNECT NEW RCV TO Exist 3" MAINLINE ADJACENT TO SHOULDER AND Exist RCV G-2. NEW RCV TO BE LABELED G-11 AND CONNECT TO Exist IC 'G' @ HILL Ave UC
	61	27.0	EB Rte 210 WEST OF HILL Ave UC @ HILL Ave ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	22	1"	1	3/4"	220	900	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV H-2. NEW RCV TO BE LABELED H-12 AND CONNECT TO Exist IC 'H' @ HILL Ave UC
	62	26.9	EB Rte 210 EAST OF LAKE Ave OC @ LAKE Ave ON RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	49	1"	1	3/4"	490	600	CONNECT NEW RCV TO Exist 2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV D-11. NEW RCV TO BE LABELED D-10 AND CONNECT TO Exist IC 'D' @ LAKE Ave OC
	64	26.1	EB Rte 210 EAST OF EL MOLINO Ave OC @ LAKE Ave OFF RAMP @ RETAINING WALL	FLOOD BUBBLER	10' 0"/C	17	1"	1	3/4"	170	2,460	CONNECT NEW RCV TO Exist 2 1/2" MAINLINE ADJACENT TO SHOULDER AND Exist RCV D-11. NEW RCV TO BE LABELED D-11 AND CONNECT TO Exist IC 'D' @ LAKE Ave OC

\* FOR BIDDING PURPOSES ONLY

## IRRIGATION QUANTITIES IQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RON RUSSAK  
 CHECKED BY  
 GENE KIMMEL  
 PATTY WATANABE  
 REVISIONS BY  
 DATE REVISION

USERNAME => s116260  
 DGN FILE => 72838usr006.dgn

RELATIVE BORDER SCALE  
 IS IN INCHES



UNIT 1850

PROJECT NUMBER & PHASE

0714000941

LAST REVISION: DATE PLOTTED => 15-AUG-2014  
 00-00-00 TIME PLOTTED => 10:53



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101 434,210	Var	22	42

*Patricia R. Watanabe*  
LICENSED LANDSCAPE ARCHITECT

8-11-14  
PLANS APPROVAL DATE

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### PLANTING LEGEND

PLANT GROUP	PLANT No.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	SOIL AMENDMENT		IRON SULFATE RATE	COMMERCIAL FERTILIZER ①		BASIN MULCH ①		STAKING	PLANTING LIMITS						REMARKS		
						Diag	DEPTH		TYPE	RATE		PLANTING	PLT ESTB	TYPE	CY		MINIMUM DISTANCE (ft) FROM				ON CENTER (ft)				
																	ETW	Pvmt	FENCE	WALL		PAVED DITCH		EARTH DITCH	
A	1	<u>ACACIA REDOLENS</u> 'LOW BOY'	PROSTRATE ACACIA	No. 1	121	③	③	II	—	—	—	4 oz	4 oz	WC	0.05	—	—	10	8	8	8	10	10	GROUND COVER	
	2	<u>DISTICTIS BUCCINATORIA</u>	BLOOD RED TRUMPET VINE	No. 1	60	—	—	III	—	—	—	4 oz	4 oz	WC	0.05	④	—	10	15	15	15	17	10	VINE 2 PLANTS PER HOLE	
	3	<u>PARTHENOCISSUS TRICUSPIDATA</u>	BOSTON IVY	No. 1	5,812	—	—	III	—	—	—	4 oz	4 oz	WC	0.05	④	—	—	—	—	—	—	10	VINE 2 PLANTS PER HOLE	
	4	<u>COTONEASTER DAMMERI</u> 'LOWFAST'	LOWFAST COTONEASTER	No. 1	32	③	③	II	—	—	—	4 oz	4 oz	WC	0.05	—	—	10	8	8	8	10	8	SHRUB	
	5	<u>PLUMBAGO AURICULATA</u>	CAPE PLUMBAGO	No. 1	31	③	③	II	—	—	—	4 oz	4 oz	WC	0.05	—	—	10	8	8	8	10	10	SHRUB	
	6	<u>RHUS OVATA</u>	SUGARBUSH	No. 1	103	③	③	II	—	—	—	4 oz	4 oz	WC	0.05	—	—	15	10	10	10	12	12	SHRUB	
	7	<u>AGONIS FLEXUOSA</u>	PEPPERMINT TREE	No. 1	53	③	③	II	—	—	—	4 oz	4 oz	WC	0.05	—	—	20	—	15	15	15	17	10	TREE
	8	<u>CALLISTEMON VIMINALIS</u>	WEeping BOTTLEBRUSH	No. 1	71	③	③	II	—	—	—	4 oz	4 oz	WC	0.05	—	—	20	—	15	15	15	17	10	TREE

#### APPLICABLE WHEN CIRCLED:

- ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SOYD APPLICATION RATES
- 2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
- ③ - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED
- ④ - SEE DETAIL
- 5 - SEE SPECIAL PROVISIONS
- 6 - SEE STANDARD SPECIFICATIONS
- 7 - AS SHOWN ON PLANS
- 8 - UNLESS OTHERWISE SHOWN ON PLANS
- 9 - FOLIAGE PROTECTOR REQUIRED
- 10 - ROOT PROTECTOR REQUIRED
- 11 - ROOT BARRIER REQUIRED
- 12 - DEPARTMENT-FURNISHED

#### ABBREVIATIONS:

- S - SPHAGNUM PEAT MOSS
- N - NITROLIZED FIR BARK
- V - VERMICULITE
- P - PERLITE
- TB - TREE BARK
- WC - WOOD CHIP
- SB - SHREDDED BARK
- TT - TREE TRIMMING

#### TEMPORARY WATER POLLUTION CONTROL QUANTITIES

TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY GRAVEL BAG BERM	TEMPORARY CONSTRUCTION ENTRANCE
EA	LF	EA
30	100	5

#### WOOD MULCH

TYPE	LOCATION
	BASIN
	CY
WC	36.4
WC	80.9
WC	38.2
WC	23.7
WC	62.5
WC	73.3
<b>TOTAL</b>	<b>315</b>

#### NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

## PLANT LEGEND PL-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101 <del>134,210</del>	Var	23	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT

8-11-14  
 PLANS APPROVAL DATE

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**PLANTING QUANTITIES - ROUTE 2**

DIRECTION	LOCATION		DESCRIPTION	PLANT No.	SIZE	QUANTITY (EA)	REMARKS
	No.	PM					
NB	1	16.3	NB Rte 2 260' SOUTH OF ESTARA Ave OC @ RETAINING/SOUNDWALL	3	No.1	38	PLANT VINES AT BASE OF SOUND/RETAINING WALL
	2	16.5	NB Rte 2 NORTH OF ESTARA Ave OC @ RETAINING/SOUNDWALL	3	No.1	240	PLANT VINES AT BASE OF SOUND/RETAINING WALL
	3	17.4	NB Rte 2 NORTH OF YORK Ave UC @ RETAINING WALL FACING DEVELAN Dr	3	No.1	252	PLANT VINES AT BASE OF RETAINING WALL FACING DEVELAN Dr
SB	4	16.8	SB Rte 2 SOUTH OF VERDUGO Rd UC @ TOP OF SLOPE @ RETAINING WALL	3	No.1	102	PLANT VINES AT BASE OF RETAINING WALL
	5	16.5	SB Rte 2 SOUTH OF W Ave 36 OC @ RETAINING WALL	3	No.1	96	PLANT VINES AT BASE OF RETAINING WALL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

**PLANTING QUANTITIES  
PQ-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, <del>134,210</del>	Var	24	42

*Patricia R. Watanabe*  
LICENSED LANDSCAPE ARCHITECT

8-11-14  
PLANS APPROVAL DATE

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## PLANTING QUANTITIES - ROUTE 101

DIRECTION	LOCATION		DESCRIPTION	PLANT No.	SIZE	QUANTITY (EA)	REMARKS
	No.	PM					
NB	6	2.6	NB Rte 101 SOUTH OF BONNIE BRAE St OC @ TOP OF PAVED SLOPE	3	No. 1	50	PLANT VINES ADJACENT TO SOUNDWALL PLANT TREES AT TOP OF PAVED SLOPE
				8		5	
	7	2.9	NB Rte 101 SOUTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	3	No. 1	60	PLANT VINES ADJACENT TO SOUNDWALL
	8	3.9	NB Rte 101 NORTH OF SILVER LAKE Blvd UC @ BACK SIDE OF SOUNDWALL @ NB ON RAMP TO HOOVER St UC	3	No. 1	116	PLANT VINES ADJACENT TO SOUNDWALL
	9	4.3	NB Rte 101 NORTH OF VIRGIL Ave UC @ BACK SIDE OF SOUNDWALL FROM WESTMORELAND Ave TO JUANITA Ave	3	No. 1	118	PLANT VINES ON BACKSIDE OF SOUNDWALL
	10	4.7	NB Rte 101 NORTH OF HELIOTROPE Dr UC @ BACK SIDE OF SOUNDWALL TO KENMORE Ave	3	No. 1	60	PLANT VINES ADJACENT TO SOUNDWALL
	11	4.8	NB Rte 101 SOUTH OF MELROSE Ave UC @ BACK SIDE OF SOUNDWALL @ MELROSE Ave OFF RAMP	3	No. 1	80	PLANT VINES ON BACKSIDE OF SOUNDWALL PLANT SHRUBS ON BACKSIDE OF SOUNDWALL 10' FROM SOUNDWALL TWO ROWS, 6' ON CENTER TRIANGULAR SPACED
				4		32	
	12	5.1	NB Rte 101 NORTH OF MELROSE Ave UC @ BACK SIDE OF SOUNDWALL FROM MELROSE Ave UC TO NORMANDIE Ave UC	3	No. 1	108	PLANT VINES ON BACKSIDE OF SOUNDWALL
	13	5.1	NB Rte 101 NORTH OF NORMANDIE Ave UC @ NORMANDIE Ave ON RAMP @ BACK SIDE OF SOUNDWALL	3	No. 1	50	PLANT VINES ON BACKSIDE OF SOUNDWALL
	14	5.1	NB Rte 101 NORTH OF NORMANDIE Ave UC @ BACK SIDE OF SOUNDWALL FROM NORMANDIE Ave ON RAMP	3	No. 1	86	PLANT VINES ON BACKSIDE OF SOUNDWALL
	15	5.5	NB Rte 101 SOUTH OF SANTA MONICA Blvd OC @ SANTA MONICA Blvd OFF RAMP @ BACK SIDE OF RETAINING WALL	7	No. 1	3	PLANT SHRUBS AND TREES AT TOP OF RETAINING WALL
				5		31	
	16	5.6	NB Rte 101 NORTH OF SANTA MONICA Blvd OC @ TOP OF RETAINING WALL	7	No. 1	45	PLANT VINES, SHRUBS AND TREES AT TOP OF RETAINING WALL AT TOP OF PAVED SLOPE
				3		2	
	17	5.7	NB Rte 101 NORTH OF SANTA MONICA Blvd OC @ TOP OF SLOPE @ SOUNDWALL TO WESTERN Ave OC	2	No. 1	42	PLANT VINES, SHRUBS AND TREES AT TOP OF RETAINING WALL AT TOP OF PAVED SLOPE
				7		1	
	18	6.7	NB Rte 101 NORTH OF BRONSON Ave OC @ TOP OF RETAINING WALL TO TAMARIND Ave	3	No. 1	130	PLANT VINES AT TOP OF RETAINING WALL
	19	6.9	NB Rte 101 SOUTH OF GOWERS St UC @ BACK OF WALL	3	No. 1	100	PLANT VINES ADJACENT TO SOUNDWALL PLANT SHRUBS AT TOP OF RETAINING WALL
				1		56	
20	7.6	NB Rte 101 NORTH OF CAHUENGA Blvd UC @ TOP OF RETAINING WALL	3	No. 1	192	PLANT VINES AT TOP OF RETAINING WALL	

## PLANTING QUANTITIES PQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED  
 RON RUSSAK



LAST REVISION | DATE PLOTTED => 15-AUG-2014  
 00-00-00 | TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, <del>134,210</del>	Var	25	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT

8-11-14  
 PLANS APPROVAL DATE

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**PLANTING QUANTITIES - ROUTE 101**

DIRECTION	LOCATION		DESCRIPTION	PLANT No.	SIZE	QUANTITY (EA)	REMARKS
	No.	PM					
NB	21	7.8	NB Rte 101 @ ODIN St OFF RAMP @ BACKSIDE OF WALL	3	No. 1	4	PLANT VINES AT BACK OF SOUNDWALL
	22	11.3	SB Rte 101 @ VINELAND Ave OFF RAMP ON BACK SIDE OF SOUNDWALL	3	No. 1	220	PLANT VINES AT BACK OF SOUNDWALL
SB	23	3.7	SB Rte 101 @ VENDOME St UC @ BACK SIDE OF SOUNDWALL	3	No. 1	70	PLANT VINES AT BACK OF SOUNDWALL
	24	3.2	SB Rte 101 NORTH OF CORONADO St UC @ BACK SIDE OF SOUNDWALL	3	No. 1	60	PLANT VINES AT BACK OF SOUNDWALL
	25	3.0	SB Rte 101 NORTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	3	No. 1	140	PLANT VINES ADJACENT TO SOUNDWALL
	26	2.9	SB Rte 101 SOUTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	3	No. 1	140	PLANT VINES ADJACENT TO SOUNDWALL
	27	2.2	SB Rte 101 NORTH OF EDGEWARE Rd OC @ TOP OF RETAINING WALL	3	No. 1	130	PLANT VINES ADJACENT TO RETAINING WALL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

**PLANTING QUANTITIES  
PQ-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, <del>134,210</del>	Var	26	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 8-11-14  
 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.

**PLANTING QUANTITIES - ROUTE 134**

DIRECTION	LOCATION		DESCRIPTION	PLANT No.	SIZE	QUANTITY (EA)	REMARKS
	No.	PM					
WB	28	7.8	WB Rte 134 WEST OF GLENDALE Ave OC @ TOP OF RETAINING WALL	3	No. 1	50	PLANT VINES AT TOP OF RETAINING WALL
	29	8.0	WB Rte 134 WEST OF GALER PLACE POC @ TOP OF SLOPE @ SOUNDWALL	6	No. 1	103	PLANT SHRUBS AT TOP OF SLOPE IN FRONT OF SOUND WALL
	30	12.2	WB Rte 134 200' WEST OF SAN RAPHAEL Ave OC @ TOP OF RETAINING WALL	3	No. 1	50	PLANT VINES AT TOP OF RETAINING WALL
	31	12.4	WB Rte 134 EAST OF SAN RAPHAEL Ave OC @ TOP OF RETAINING WALL	3	No. 1	90	PLANT VINES AT TOP OF RETAINING WALL
EB	32	12.2	EB Rte 134 900' WEST OF SAN RAPHAEL Ave OC ON COLORADO Blvd SIDE OF SOUNDWALL	3	No. 1	50	PLANT VINES ON COLORADO Blvd SIDE OF SOUND WALL
	33	12.1	EB Rte 134 1250' WEST OF SAN RAPHAEL Ave OC ON COLORADO Blvd SIDE OF SOUNDWALL	3	No. 1	30	PLANT VINES ON COLORADO Blvd SIDE OF SOUND WALL
	34	7.8	EB Rte 134 EAST OF GLENDALE Ave OC @ TOP OF RETAINING WALL	3	No. 1	100	PLANT VINES AT TOP OF RETAINING WALL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 PATTY WATANABE  
 REVISOR BY  
 DATE REVISOR  
 CHECKED BY  
 RON RUSSAK

**PLANTING QUANTITIES  
PQ-4**

LAST REVISION | DATE PLOTTED => 15-AUG-2014  
 00-00-00 | TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101 <del>134,210</del>	Var	27	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 8-11-14  
 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.

### PLANTING QUANTITIES - ROUTE 210

DIRECTION	LOCATION		DESCRIPTION	PLANT No.	SIZE	QUANTITY (EA)	REMARKS
	No.	PM					
WB	35	26.2	WB Rte 210 WEST OF LAKE Ave OC @ LAKE Ave ON RAMP @ RETAINING WALL	3	No. 1	50	PLANT VINES AT TOP OF RETAINING WALL
	36	26.3	WB Rte 210 EAST OF EL MOLINO Ave OC @ LAKE Ave ON RAMP @ RETAINING WALL	3	No. 1	56	PLANT VINES AT TOP OF RETAINING WALL
	37	26.4	WB Rte 210 EAST OF LAKE Ave OC @ LAKE Ave OFF RAMP @ RETAINING WALL	3	No. 1	110	PLANT VINES AT TOP OF RETAINING WALL
	38	26.5	WB Rte 210 WEST OF WILSON Ave OC @ LAKE Ave OFF RAMP @ RETAINING WALL	3	No. 1	70	PLANT VINES AT TOP OF RETAINING WALL
	39	26.6	WB Rte 210 EAST OF WILSON Ave OC @ RETAINING WALL	8	No. 1	55	PLANT TREES AT TOP OF RETAINING WALL
	40	26.9	WB Rte 210 WEST OF HILL Ave UC @ HILL Ave ON RAMP @ RETAINING WALL	3	No. 1	118	PLANT VINES AT TOP OF RETAINING WALL
				8		11	PLANT TREES AT TOP OF RETAINING WALL
	41	27.0	EAST OF HILL Ave UC @ HILL Ave OFF RAMP @ RETAINING WALL	3	No. 1	90	PLANT VINES AT TOP OF RETAINING WALL
	42	27.1	WB Rte 210 WEST OF SIERRA BONITA Ave UC @ HILL Ave OFF RAMP @ RETAINING WALL	3	No. 1	70	PLANT VINES AT TOP OF RETAINING WALL
	43	27.3	WB Rte 210 WEST OF ALLEN Ave UC @ RETAINING WALL	3	No. 1	20	PLANT VINES AT TOP OF RETAINING WALL
	44	27.7	WB Rte 210 WEST OF CRAIG Ave UC @ ALLEN Ave OFF RAMP @ SOUND WALL	3	No. 1	130	PLANT VINES ADJACENT TO SOUND WALL
	45	27.9	WB Rte 210 EAST OF CRAIG Ave UC @ RETAINING WALL	3	No. 1	150	PLANT VINES AT TOP OF RETAINING WALL
	46	28.2	WB Rte 210 WEST OF ALTADENA Dr UC @ ALTADENA Dr ON RAMP @ RETAINING WALL	3	No. 1	20	PLANT VINES AT TOP OF RETAINING WALL
	47	28.3	WB Rte 210 EAST OF ALTADENA Dr UC @ SIERRA MADRE Blvd ON RAMP @ RETAINING WALL	3	No. 1	100	PLANT VINES AT TOP OF RETAINING WALL
	48	28.4	WB Rte 210 WEST OF SIERRA MADRE Blvd UC @ SIERRA MADRE Blvd ON RAMP @ RETAINING WALL	3	No. 1	104	PLANT VINES AT TOP OF RETAINING WALL
49	28.6	WB Rte 210 EAST OF SAN GABRIEL Blvd UC @ SAN GABRIEL Blvd Ave OFF RAMP @ RETAINING WALL	3	No. 1	96	PLANT VINES AT TOP OF RETAINING WALL	

### PLANTING QUANTITIES PQ-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISOR  
 DATE REVISOR  
 DATE REVISOR

LAST REVISION DATE PLOTTED => 15-AUG-2014  
 00-00-00 TIME PLOTTED => 10:53



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	29	42

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3168  
 8-11-14  
 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.

## ROADSIDE CLEARING

DIRECTION	ROUTE	LOCATION		DESCRIPTION	QUANTITY
		No.	PM		SQFT*
NB	2	1	16.3	NB Rte 2 260' SOUTH OF ESTARA Ave OC @ RETAINING/SOUNDWALL	2,000
	2	2	16.5	NB Rte 2 NORTH OF ESTARA Ave OC @ RETAINING/SOUNDWALL	12,100
	2	3	17.4	NB Rte 2 NORTH OF YORK Ave UC @ RETAINING WALL FACING DEVELAN Dr	11,300
SB	2	4	16.8	SB Rte 2 SOUTH OF VERDUGO Rd UC @ TOP OF SLOPE @ SOUNDWALL	5,100
	2	5	16.5	SB Rte 2 SOUTH OF W Ave 36 OC @ RETAINING WALL	4,760
NB	101	6	2.6	NB Rte 101 SOUTH OF BONNIE BRAE St OC @ TOP OF PAVED SLOPE	3,000
	101	7	2.9	NB Rte 101 SOUTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	7,500
	101	8	3.9	NB Rte 101 NORTH OF SILVER LAKE Blvd UC @ BACK SIDE OF SOUNDWALL @ NB ON RAMP TO HOOVER St UC	5,800
	101	9	4.3	NB Rte 101 NORTH OF VIRGIL Ave UC @ BACK SIDE OF SOUNDWALL FROM WESTMORELAND Ave TO JUANITA Ave	10,900
	101	10	4.7	NB Rte 101 NORTH OF HELIOTROPE Dr UC @ BACK SIDE OF SOUNDWALL TO KENMORE Ave	3,900
	101	11	4.8	NB Rte 101 SOUTH OF MELROSE Ave UC @ BACK SIDE OF SOUNDWALL @ MELROSE Ave OFF RAMP	2,000
	101	12	5.1	NB Rte 101 NORTH OF MELROSE Ave UC @ BACK SIDE OF SOUNDWALL FROM MELROSE Ave UC TO NORMANDIE Ave UC	5,400
	101	13	5.1	NB Rte 101 NORTH OF NORMANDIE Ave UC @ NORMANDIE Ave ON RAMP @ BACK SIDE OF SOUNDWALL	2,500
	101	14	5.1	NB Rte 101 NORTH OF NORMANDIE Ave UC @ BACK SIDE OF SOUNDWALL FROM NORMANDIE Ave ON RAMP	4,300
	101	15	5.5	NB Rte 101 SOUTH OF SANTA MONICA Blvd OC @ SANTA MONICA Blvd OFF RAMP @ BACK SIDE OF SOUNDWALL	3,400
	101	16	5.6	NB Rte 101 NORTH OF SANTA MONICA Blvd OC @ TOP OF RETAINING WALL	17,900
	101	17	5.7	NB Rte 101 NORTH OF SANTA MONICA Blvd OC @ TOP OF SLOPE @ SOUNDWALL TO WESTERN Ave OC	2,100
	101	18	6.7	NB Rte 101 NORTH OF BRONSON Ave OC @ TOP OF RETAINING WALL TO TAMARIND Ave	6,500
	101	19	6.9	NB Rte 101 SOUTH OF GOWERS St UC @ BACK OF WALL	13,400
	SB	101	20	7.6	NB Rte 101 NORTH OF CAHUENGA Blvd UC @ TOP OF RETAINING WALL
101		21	7.8	NB Rte 101 @ ODIN St OFF RAMP @ BACKSIDE OF WALL	2,000
101		22	11.3	SB Rte 101 @ VINELAND Ave OFF RAMP ON BACK SIDE OF SOUNDWALL	11,000
101		23	3.7	SB Rte 101 @ VENDOME St UC @ BACK SIDE OF SOUNDWALL	3,500
101		24	3.2	SB Rte 101 NORTH OF CORONADO St UC @ BACK SIDE OF SOUNDWALL	3,000
101		25	3.0	SB Rte 101 NORTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	7,000
WB	134	26	2.9	SB Rte 101 SOUTH OF ROSEMONT Ave OC @ TOP OF SLOPE @ SOUNDWALL	7,000
	134	27	2.2	SB Rte 101 NORTH OF EDGEWARE Rd OC @ TOP OF RETAINING WALL	6,500
	134	28	7.8	WB Rte 134 WEST OF GLENDALE Ave OC @ TOP OF RETAINING WALLS	6,800
EB	134	29	8.0	WB Rte 134 WEST OF GALER PLACE POC @ TOP OF SLOPE @ SOUNDWALL	5,300
	134	30	12.2	WB Rte 134 200' WEST OF SAN RAPHAEL Ave OC @ TOP OF RETAINING WALL	7,000
	134	31	12.4	WB Rte 134 EAST OF SAN RAPHAEL Ave OC @ TOP OF RETAINING WALL	4,900
EB	134	32	12.2	EB Rte 134 900' WEST OF SAN RAPHAEL Ave OC ON COLORADO Blvd SIDE OF SOUNDWALL	2,500
	134	33	12.1	EB Rte 134 1250' WEST OF SAN RAPHAEL Ave OC ON COLORADO Blvd SIDE OF SOUNDWALL	3,300
	134	34	7.8	EB Rte 134 EAST OF GLENDALE Ave OC @ TOP OF RETAINING WALL	2,500
<b>SUBTOTAL</b>					<b>205,760</b>

\* FOR BIDDING PURPOSES ONLY

## ROADSIDE CLEARING QUANTITIES RCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 GENE KIMMEL  
 REVISOR  
 PATTY WATANABE  
 CHECKED BY  
 RON RUSSAK  
 CALCULATED/DESIGNED BY  
 DATE REVISOR  
 DATE REVISOR

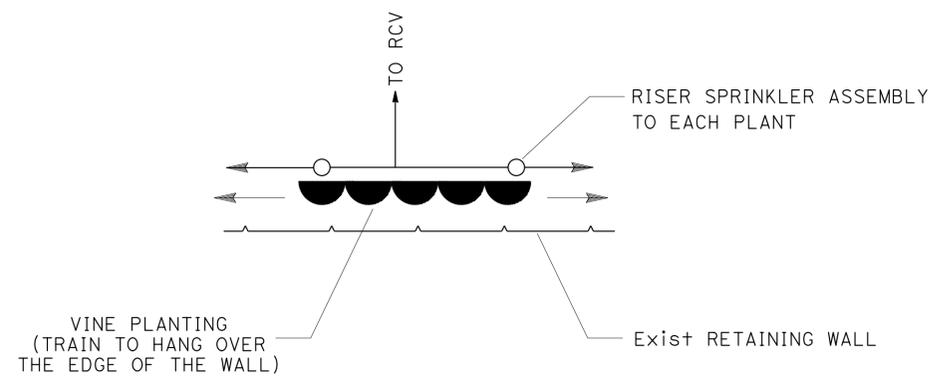




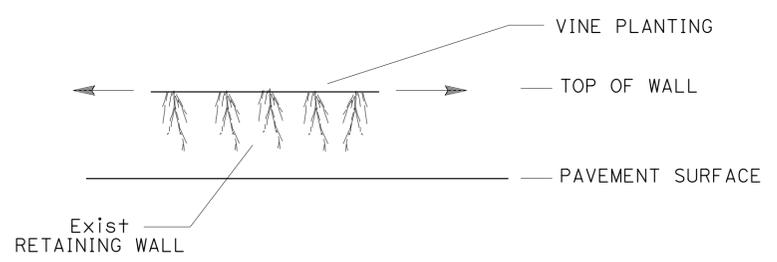
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	31	42
<i>Patricia R. Watanabe</i> LICENSED LANDSCAPE ARCHITECT					
8-11-14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CHECKED BY	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>	RON RUSSAK	GENE KIMMEL	PATTY WATANABE			



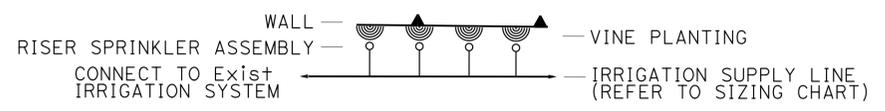
PLAN



ELEVATION

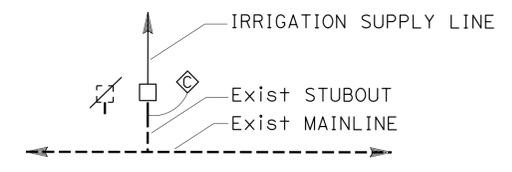
**TYPICAL PLANTING ABOVE RETAINING WALL FOR GRAFFITI CONTROL**

NO SCALE



PLAN

**VINE PLANTING AND IRRIGATION (ON SOUNDWALL)**



PLAN

**TYPICAL RCV REPLACEMENT AT Exist POC**

**NOTES:**

1. LOCATE NEW CONTROL VALVE AS INDICATED.
2. Exist STUBOUT MAY BE PART OF Exist MANIFOLD.
3. LOCATION OF Exist FACILITIES IS TO BE OBTAINED FROM AS-BUILT PLANS.

**LANDSCAPE DETAILS  
LD-1**



	<b>M</b>	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	<b>N</b>	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	<b>O</b>	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	<b>P</b>	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	<b>P continued</b>	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	<b>Q</b>	
Qty	QUANTITY	
	<b>R</b>	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	<b>S</b>	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
ℒ	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	<b>T</b>	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
Tel	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	<b>T continued</b>	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	<b>U</b>
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	<b>V</b>
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	<b>W</b>
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	<b>X</b>
X Sec	CROSS SECTION	
Xing	CROSSING	<b>Y</b>
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	32	42

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Grace M. Tsushima  
 No. C49814  
 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.

TO ACCOMPANY PLANS DATED 8-11-14

**UNIT OF MEASUREMENT SYMBOLS:**  
Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

**TABLE A**

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

**TABLE B**

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

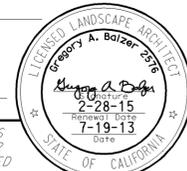
**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B  
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	33	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 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.



TO ACCOMPANY PLANS DATED 8-11-14

**A**

AB AGGREGATE BASE  
 ABS ACRYLONITRILE-BUTADIENE-STYRENE  
 AC ASPHALT CONCRETE  
 ACC ARMOR-CLAD CONDUCTORS  
 Adj ADJACENT/ADJUSTABLE  
 AIC AUXILIARY IRRIGATION CONTROLLER  
 Alt ALTERNATIVE  
 AMEND AMENDMENT  
 ARV AIR RELEASE VALVE  
 AUTO AUTOMATIC  
 AUX AUXILIARY  
 AVB ATMOSPHERIC VACUUM BREAKER

**B**

B&B BALLED AND BURLAPPED  
 B/B BRASS/BRONZE  
 B/B/PL BRASS/BRONZE/PLASTIC  
 B/PL BRASS/PLASTIC  
 BFM BONDED FIBER MATRIX  
 Bit Ctd BITUMINOUS COATED  
 BP BOOSTER PUMP  
 BPA BACKFLOW PREVENTER ASSEMBLY  
 BPE BACKFLOW PREVENTER ENCLOSURE  
 BV BALL VALVE

**C**

C CONDUIT  
 CAP CORRUGATED ALUMINUM PIPE  
 CARV COMBINATION AIR RELEASE VALVE  
 CB COUPLING BAND  
 CCA CAM COUPLER ASSEMBLY  
 CEC CONTROLLER ENCLOSURE CABINET  
 CHDPE CORRUGATED HIGH DENSITY POLYETHYLENE  
 CL CHAIN LINK  
 CNC CONTROL AND NEUTRAL CONDUCTORS  
 Conc CONCRETE  
 CP COPPER PIPE  
 CS COMPOST SOCK  
 CSP CORRUGATED STEEL PIPE  
 CST CENTER STRIP  
 CV CHECK VALVE

**D**

Dia DIAMETER  
 DIP DUCTILE IRON PIPE  
 DIT DRIP IRRIGATION TUBING  
 DG DECOMPOSED GRANITE  
 DN DIAMETER NOMINAL  
 DVA DRIP VALVE ASSEMBLY

**E**

EC EROSION CONTROL  
 ECTC EROSION CONTROL TECHNOLOGY COUNCIL  
 ElecT ELECTRIC/ELECTRICAL  
 Elev ELEVATION  
 ELL ELBOW  
 ENCL ENCLOSURE  
 EP EDGE OF PAVEMENT  
 ES EDGE OF SHOULDER  
 EST END STRIP  
 ESTB ESTABLISHMENT  
 ETW EDGE OF TRAVELED WAY

**F**

F FULL CIRCLE  
 F/P FULL/PART CIRCLE  
 FCV FLOW CONTROL VALVE  
 FERT FERTILIZER  
 FG FINISHED GRADE  
 FH FLEXIBLE HOSE  
 FIPT FEMALE IRON PIPE THREAD  
 FIS FERTILIZER INJECTOR SYSTEM  
 FL FLOW LINE  
 FR FIBER ROLL  
 FS FLOW SENSOR  
 FSC FLOW SENSOR CABLE  
 FV FLUSH VALVE

**G**

Galv GALVANIZED  
 GARV GARDEN VALVE  
 GARVA GARDEN VALVE ASSEMBLY  
 GM GRAVEL MULCH  
 GPH GALLONS PER HOUR  
 GPM GALLONS PER MINUTE  
 GSP GALVANIZED STEEL PIPE  
 GV GATE VALVE

**H**

H HALF CIRCLE  
 HDPE HIGH DENSITY POLYETHYLENE  
 HP HORSEPOWER/HINGE POINT  
 HPL HIGH PRESSURE LINE  
 Hwy HIGHWAY

**I**

IC IRRIGATION CONTROLLER  
 ICC IRRIGATION CONTROLLER(S)  
 IN CONTROLLER ENCLOSURE CABINET  
 ID INSIDE DIAMETER  
 IFS IRRIGATION FILTRATION SYSTEM  
 IPS IRON PIPE SIZE  
 IPT IRON PIPE THREAD  
 Irr IRRIGATION

**L**

L LENGTH

**M**

Max MAXIMUM  
 MBGR METAL BEAM GUARD RAILING  
 MCV MANUAL CONTROL VALVE  
 MIC MASTER IRRIGATION CONTROLLER  
 Min MINIMUM  
 MIPT MALE IRON PIPE THREAD  
 Misc MISCELLANEOUS  
 MtI MATERIAL  
 MVP MAINTENANCE VEHICLE PULLOUT

**N**

NCN NO COMMON NAME  
 NL NOZZLE LINE  
 No. NUMBER  
 NPT NATIONAL PIPE THREAD

**O**

O/C ON CENTER  
 OD OUTSIDE DIAMETER  
 OL OVERLAP

**P**

P PART CIRCLE  
 PB PULL BOX  
 PCC PORTLAND CEMENT CONCRETE  
 PE POLYETHYLENE  
 Pkt+ PACKET  
 PL PLASTIC  
 PLS PURE LIVE SEED  
 PLT PLANT/PLANTING  
 PLT ESTB PLANT ESTABLISHMENT  
 PM POST MILE  
 PR PRESSURE RATED  
 PRLV PRESSURE RELIEF VALVE  
 PRV PRESSURE REGULATING VALVE  
 PVC POLYVINYL CHLORIDE  
 Pvm+ PAVEMENT

**Q**

Q QUARTER CIRCLE  
 QCV QUICK COUPLING VALVE

**NOTE:**  
 For additional abbreviations,  
 see Standard Plans A10A and A10B.

**R**

R RADIUS  
 RCP REINFORCED CONCRETE PIPE  
 RCV REMOTE CONTROL VALVE  
 RCVM REMOTE CONTROL VALVE (MASTER)  
 RCVMF REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR  
 RCVP REMOTE CONTROL VALVE W/PRESSURE REGULATOR  
 RCW RECYCLED WATER  
 RECP ROLLED EROSION CONTROL PRODUCT  
 REQ REQUIRED  
 RICS REMOTE IRRIGATION CONTROL SYSTEM  
 R/W RIGHT OF WAY

**S**

S SLIP  
 SCH SCHEDULE  
 SF STATE-FURNISHED  
 Shld SHOULDER  
 Sq SQUARE  
 SST SIDE STRIP  
 Sta STATION  
 Std STANDARD  
 SW SIDEWALK/SOUND WALL

**T**

T THIRD CIRCLE/THREAD  
 TLS TRUCK LOADING STANDPIPE  
 TQ THREE QUARTER CIRCLE  
 TRM TURF REINFORCEMENT MAT  
 TT TWO-THIRDS CIRCLE  
 TWSA TREE WELL SPRINKLER ASSEMBLY  
 Typ TYPICAL

**U**

UG UNDERGROUND

**W**

W WIDTH  
 W/ WITH  
 WM WATER METER  
 WS WYE STRAINER  
 WSA WYE STRAINER ASSEMBLY  
 WSP WELDED STEEL PIPE  
 WWM WELDED WIRE MESH

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE AND  
 EROSION CONTROL ABBREVIATIONS**  
 NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1  
 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H1**

2010 REVISED STANDARD PLAN RSP H1

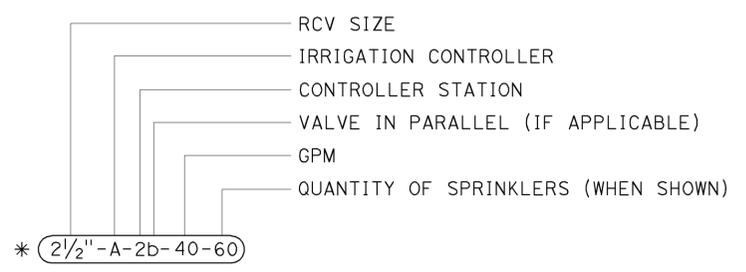
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	34	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 November 15, 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.

TO ACCOMPANY PLANS DATED 8-11-14

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC) IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR) IRRIGATION CONTROLLER (IC) (TWO WIRE) IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		ARMOR-CLAD CONDUCTORS (ACC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		IRRIGATION CONDUIT
		EXTEND IRRIGATION CONDUIT
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (SUPPLY LINE) (LATERAL)
		COPPER PIPE (SUPPLY LINE)
		DRIP IRRIGATION TUBING
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP)
		EXISTING MANUAL CONTROL VALVE (MCV)
		DRIP VALVE ASSEMBLY (DVA)
		WYE STRAINER ASSEMBLY (WSA)

EXISTING	NEW	ITEM DESCRIPTION
		GATE VALVE (GV)
		BALL VALVE (BV)
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		GARDEN VALVE ASSEMBLY (GARVA)
		PRESSURE REGULATING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		EXISTING NOZZLE LINE W/TURNING UNION
		EXISTING IRRIGATION SYSTEM
		EXISTING IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING
		FIBER ROLL
		COMPOST SOCK



**VALVE CODE**

\* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE AND EROSION CONTROL SYMBOLS**  
 NO SCALE

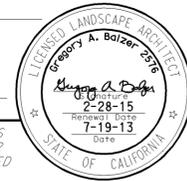
RSP H2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H2**

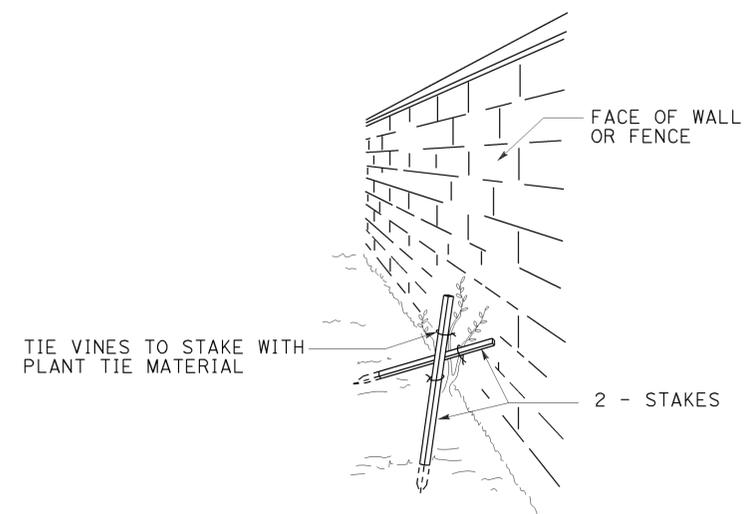
2010 REVISED STANDARD PLAN RSP H2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	35	42

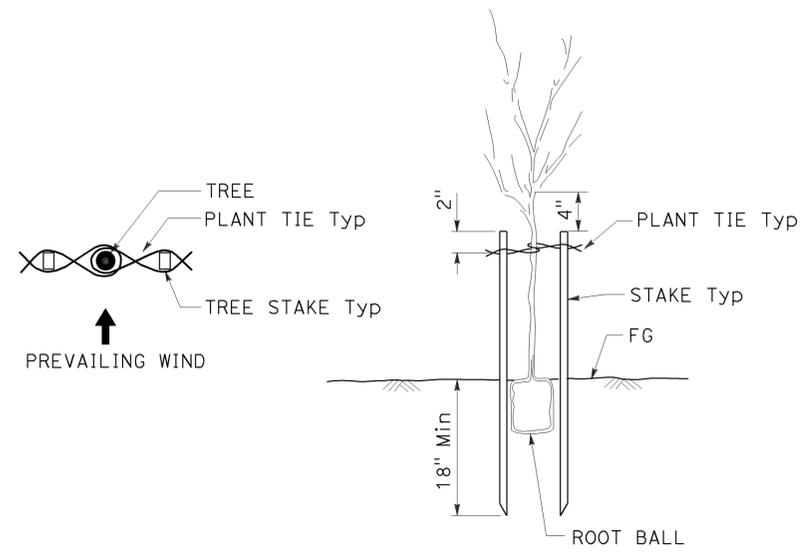
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



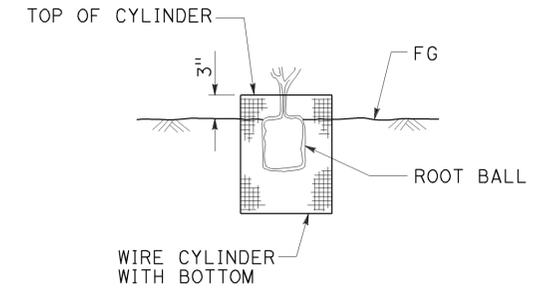
TO ACCOMPANY PLANS DATED 8-11-14



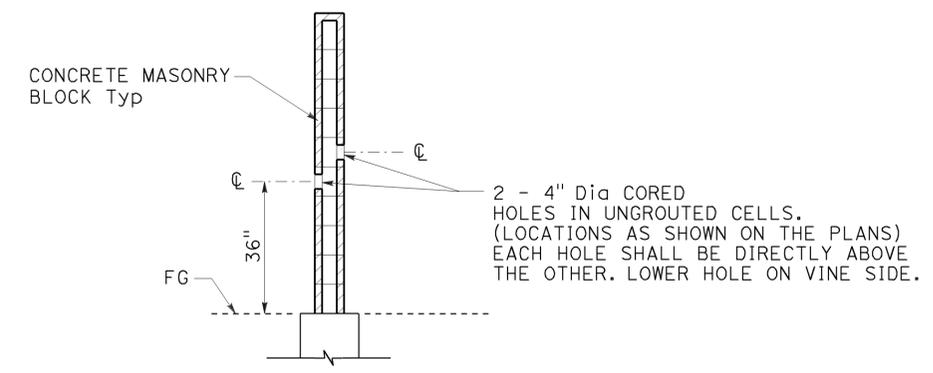
PERSPECTIVE VINE STAKING



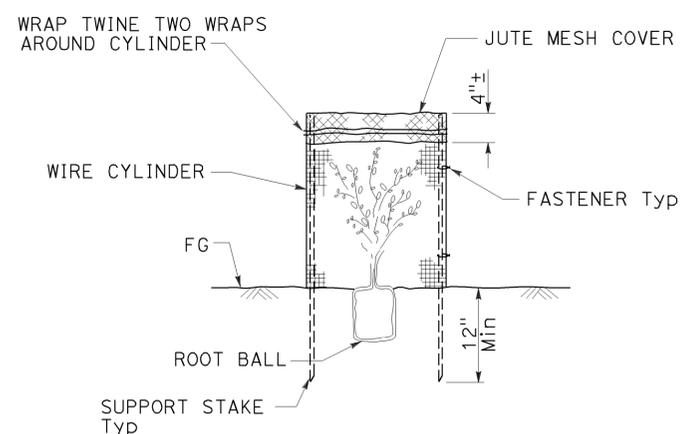
TREE STAKING



SECTION ROOT PROTECTOR



SECTION CORE HOLE (VINE)



SECTION FOLIAGE PROTECTOR

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE DETAILS**  
 NO SCALE

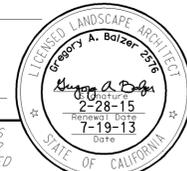
RSP H4 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H4 DATED MAY 20, 2011 - PAGE 221 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H4**

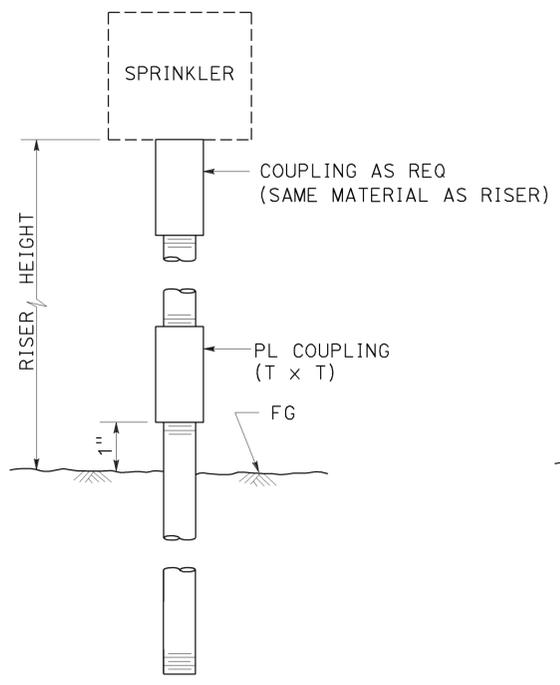
2010 REVISED STANDARD PLAN RSP H4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	36	42

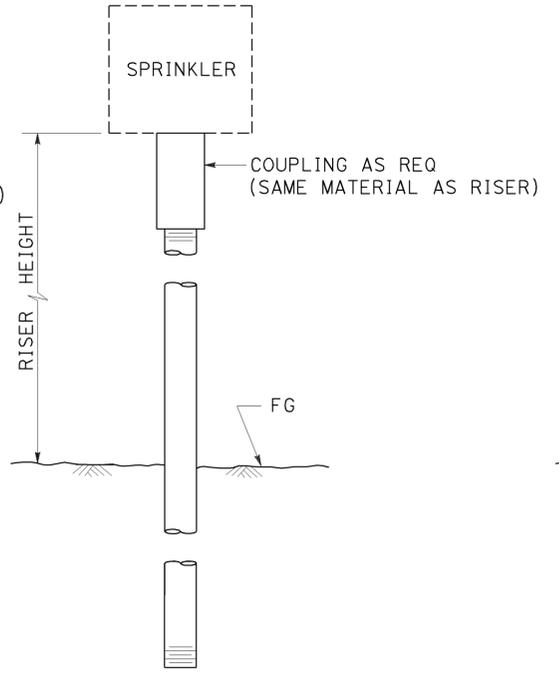
July 19, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



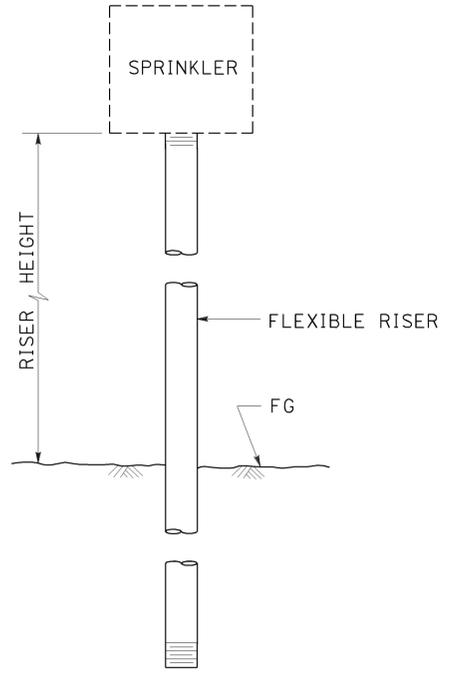
TO ACCOMPANY PLANS DATED 8-11-14



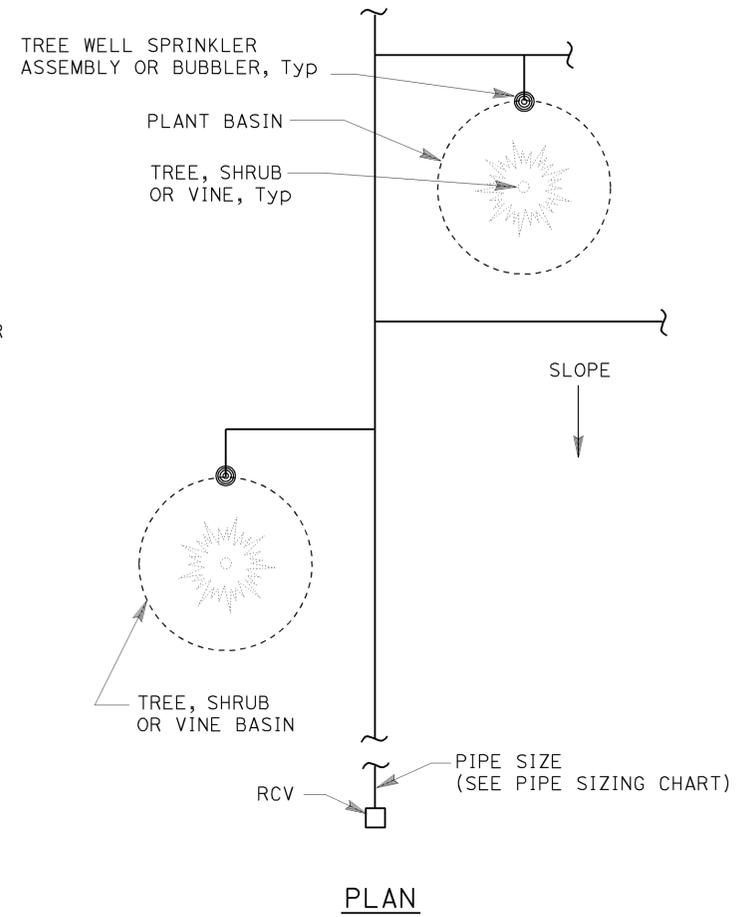
ELEVATION  
RISER SPRINKLER ASSEMBLY TYPE I



ELEVATION  
RISER SPRINKLER ASSEMBLY TYPE II



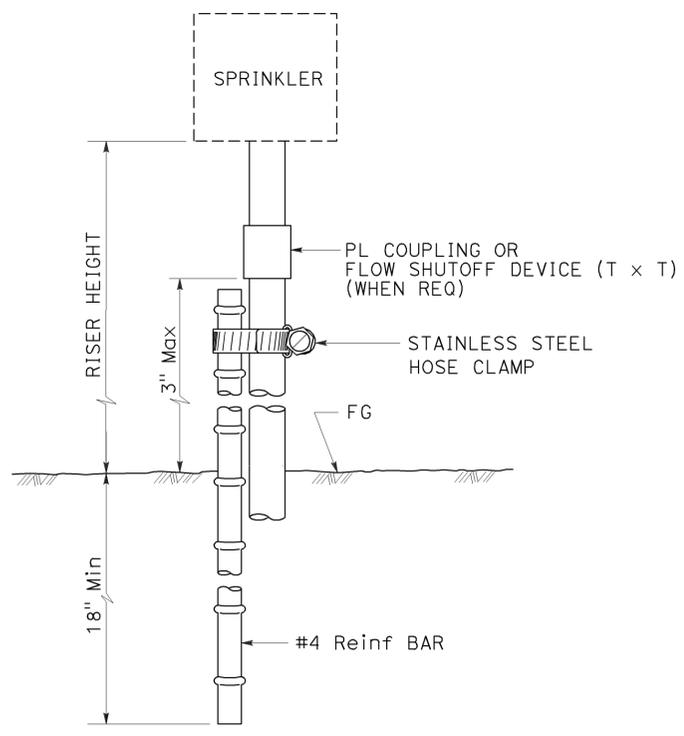
ELEVATION  
RISER SPRINKLER ASSEMBLY TYPE III



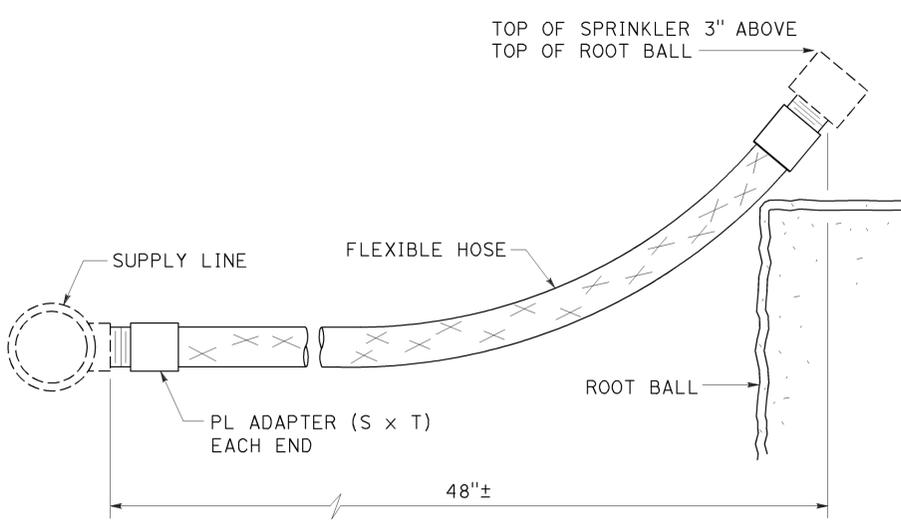
PLAN

NOTES:

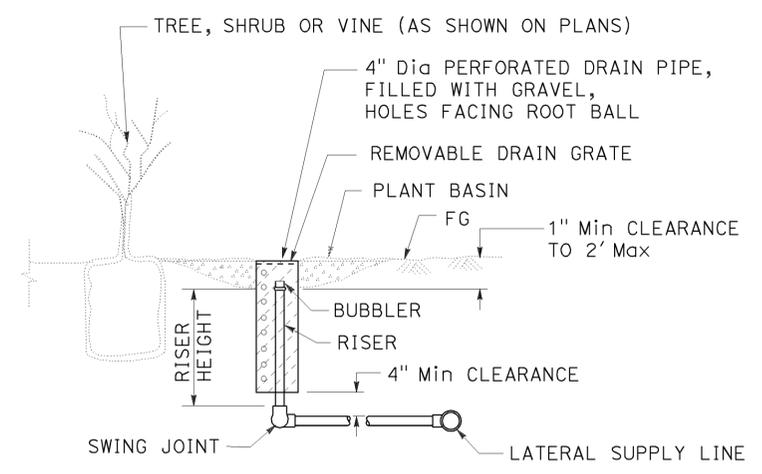
1. Install tree well sprinkler assembly on up-hill side of plant when on slope.
2. Install bubbler within basin.



ELEVATION  
RISER SPRINKLER ASSEMBLY TYPE IV



ELEVATION  
RISER SPRINKLER ASSEMBLY TYPE V



SECTION  
TREE WELL SPRINKLER ASSEMBLY

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE DETAILS**

NO SCALE

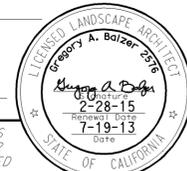
RSP H5 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H5 DATED MAY 20, 2011 - PAGE 222 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H5**

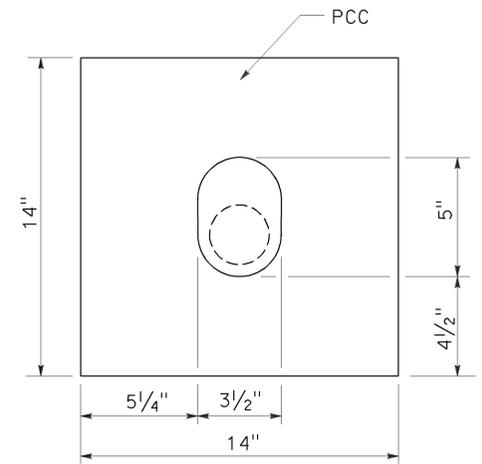
2010 REVISED STANDARD PLAN RSP H5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	37	42

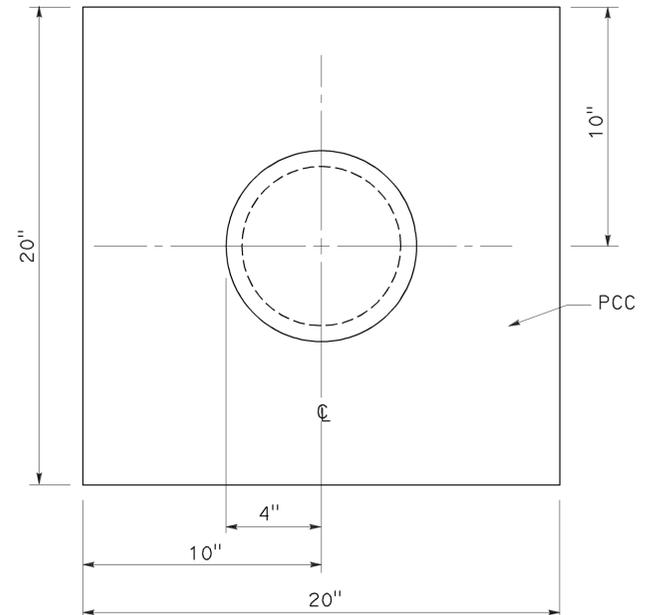
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



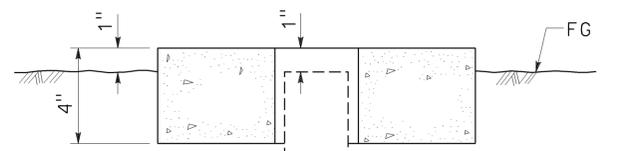
TO ACCOMPANY PLANS DATED 8-11-14



PLAN

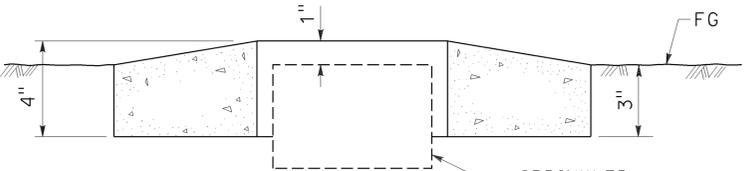


PLAN



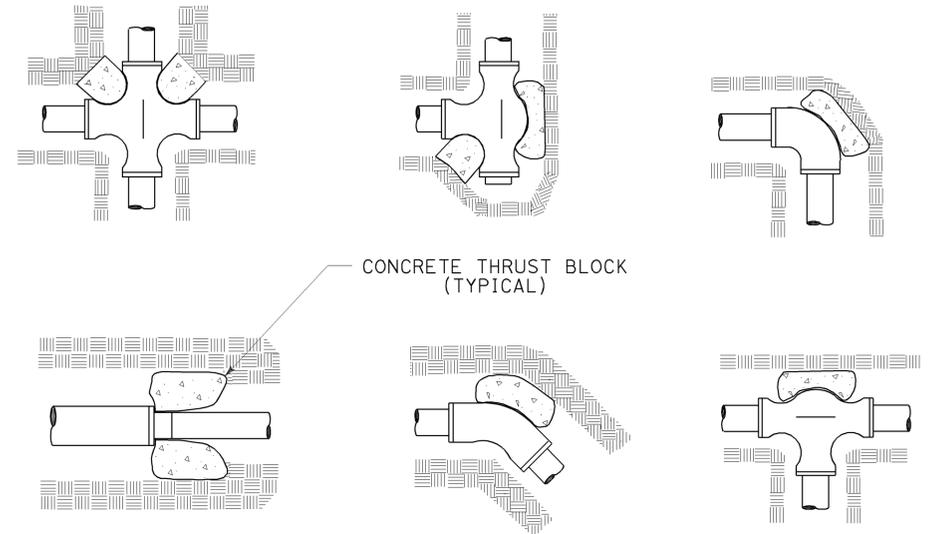
SECTION SPRINKLER OR QUICK COUPLING VALVE

SPRINKLER PROTECTOR TYPE I

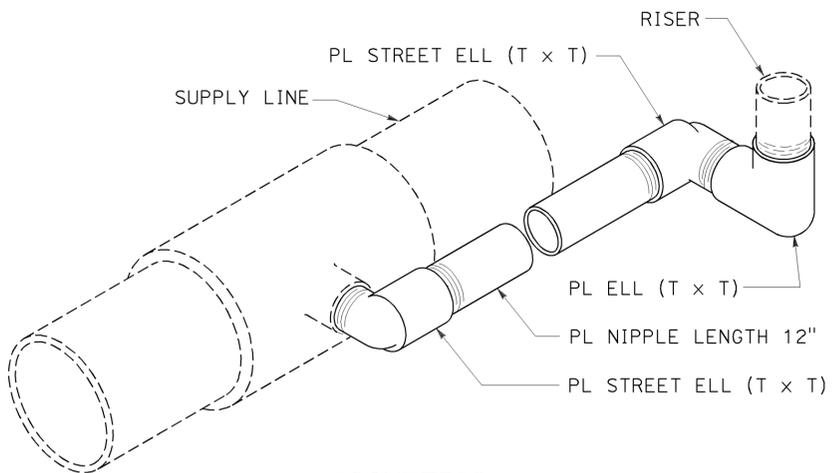


SECTION SPRINKLER

SPRINKLER PROTECTOR TYPE II

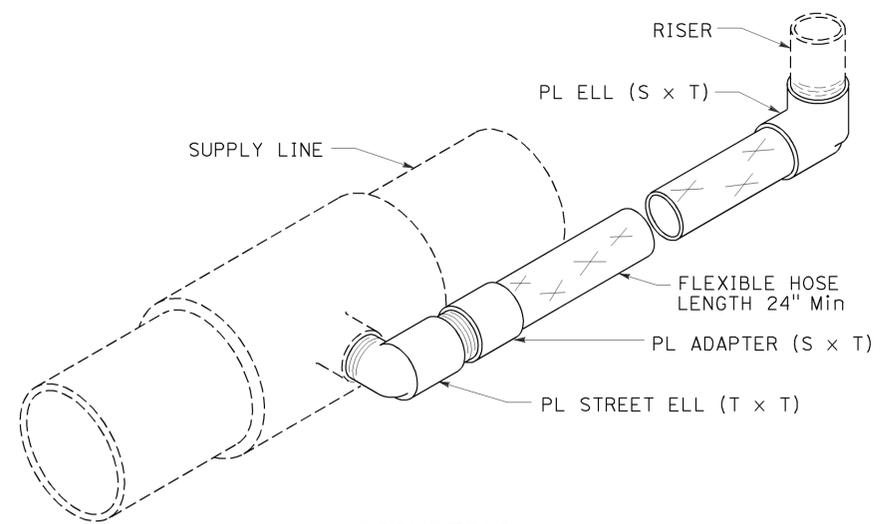


TYPICAL THRUST BLOCKS



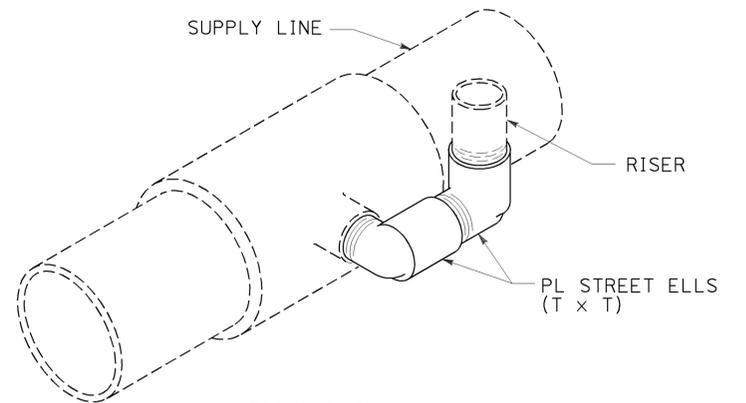
ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE I



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE II



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE III

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE DETAILS**

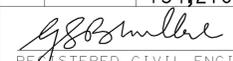
NO SCALE

RSP H6 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H6 DATED MAY 20, 2011 - PAGE 223 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H6**

2010 REVISED STANDARD PLAN RSP H6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	38	42

  
 REGISTERED CIVIL ENGINEER  
 July 19, 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.

TO ACCOMPANY PLANS DATED 8-11-14

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

\* - For other offsets, use the following merging taper length formula for L:  
 For speed of 40 mph or less,  $L = WS^2/60$   
 For speed of 45 mph or more,  $L = WS$

Where: L = Taper length in feet  
 W = Width of offset in feet  
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	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
70	730	771	825	891

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  
 \*\* - Longitudinal buffer space or flagger station spacing  
 \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM TABLES  
 FOR LANE AND RAMP CLOSURES**

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T9**

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	39	42

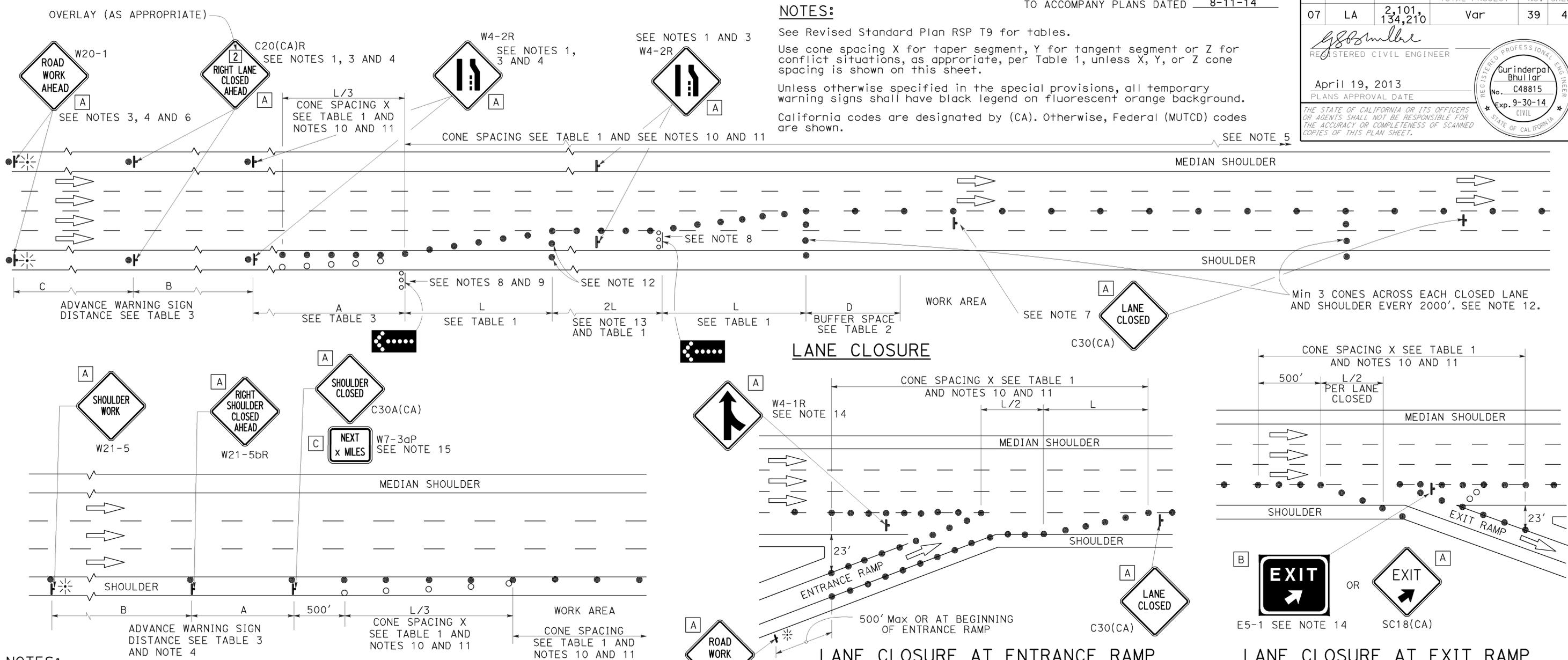
REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

TO ACCOMPANY PLANS DATED 8-11-14

**NOTES:**

See Revised Standard Plan RSP T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.  
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



**NOTES:**

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L 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 G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.

**SHOULDER CLOSURE**

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20(CA)L and W4-2L signs shall be used.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
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.

**LANE CLOSURE AT ENTRANCE RAMP**

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 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT \_\_\_\_\_ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

**LEGEND**

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

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

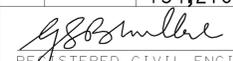
**TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS**

NO SCALE  
 RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T10**

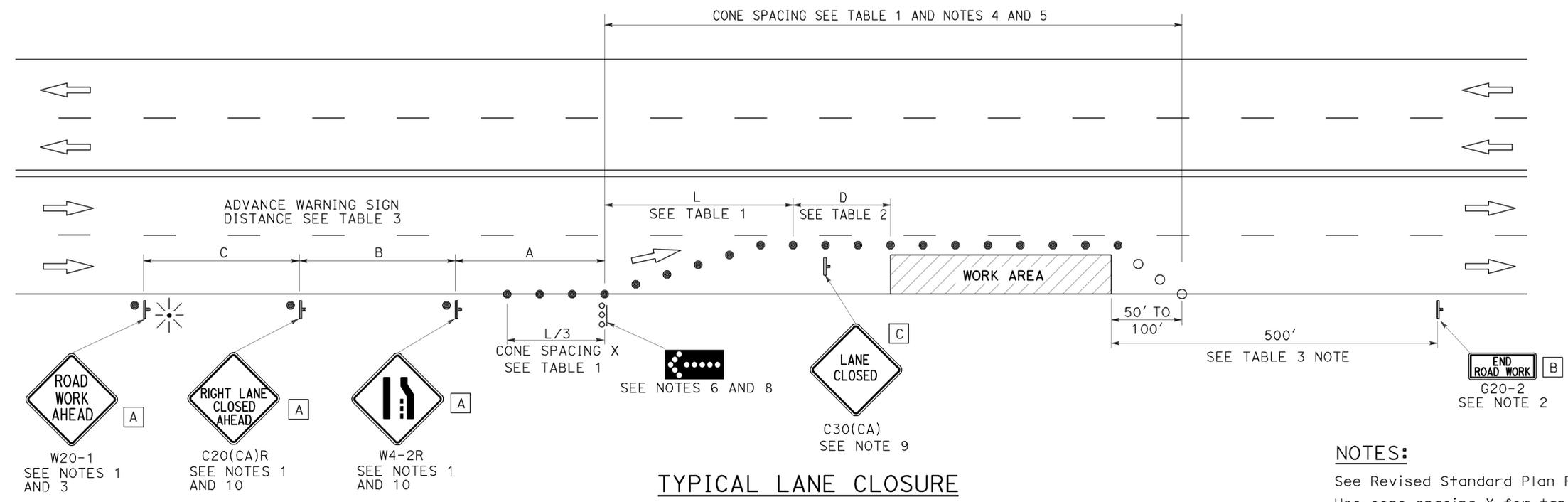
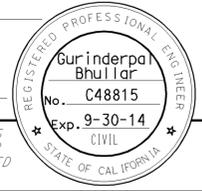
2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	40	42

  
 REGISTERED CIVIL ENGINEER  
 April 19, 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.

TO ACCOMPANY PLANS DATED 8-11-14



**TYPICAL LANE CLOSURE**

**NOTES:**

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

**NOTES:**

- 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.
- A G20-2 "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 G20-1 "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20(CA) sign for the first advance warning sign.
- 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.
- Flashing arrow sign shall be either Type I or Type II.
- 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.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- 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.

**LEGEND**

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

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
FOR LANE CLOSURE ON  
MULTILANE CONVENTIONAL  
HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T11**

2010 REVISED STANDARD PLAN RSP T11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	41	42

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

April 19, 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 TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

**NOTES:**

See Revised Standard Plan RSP T9 for tables.

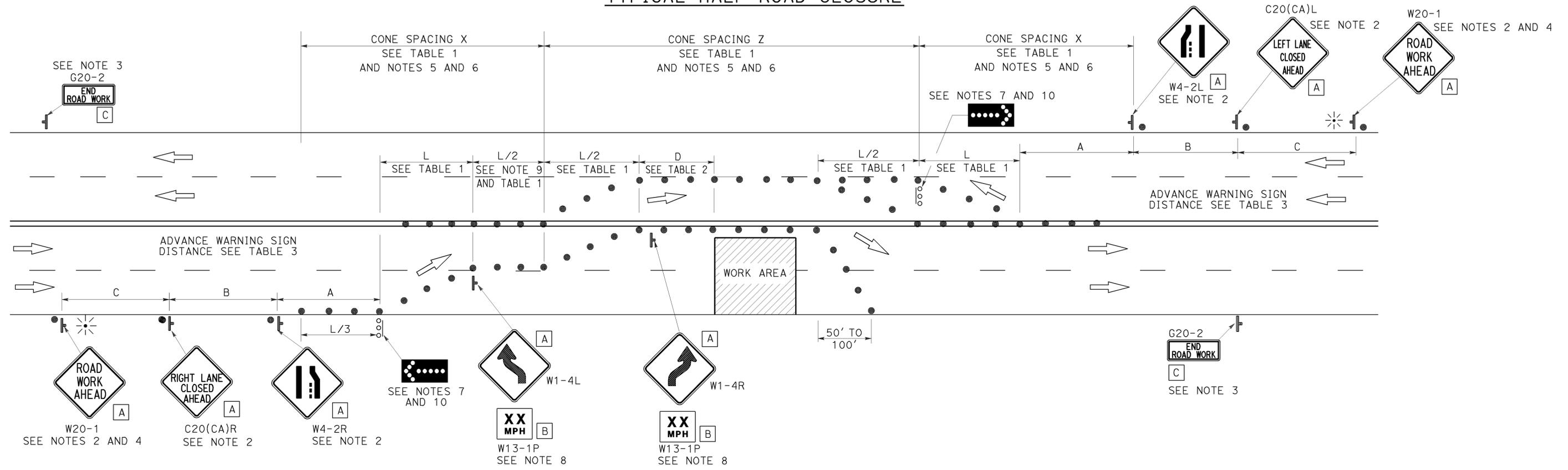
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TO ACCOMPANY PLANS DATED 8-11-14

**TYPICAL HALF ROAD CLOSURE**



**NOTES:**

1. 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.
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 G20-2 "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 G20-1 "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 signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. 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.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
FOR HALF ROAD CLOSURE ON  
MULTILANE CONVENTIONAL  
HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12  
DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T12**

2010 REVISED STANDARD PLAN RSP T12

# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

## LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	2,101, 134,210	Var	42	42

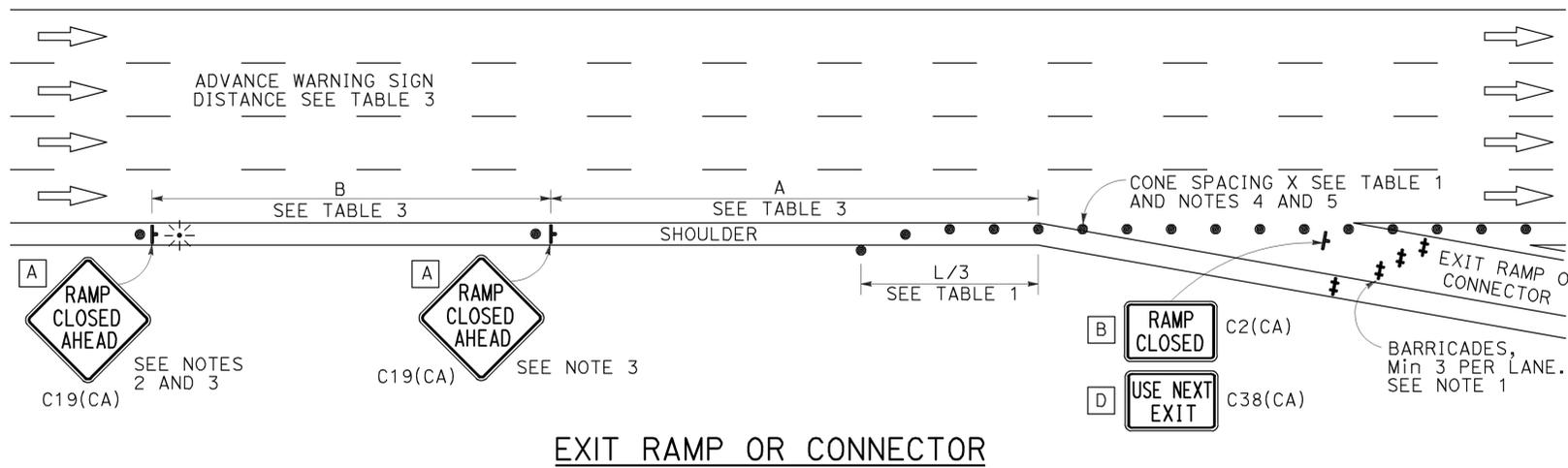
*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

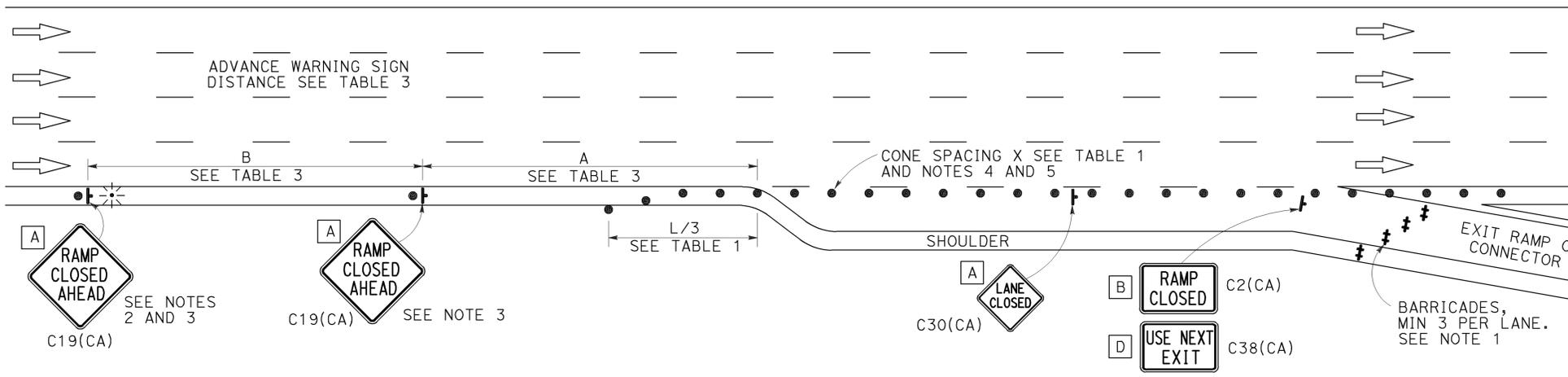
TO ACCOMPANY PLANS DATED 8-11-14

## NOTES:

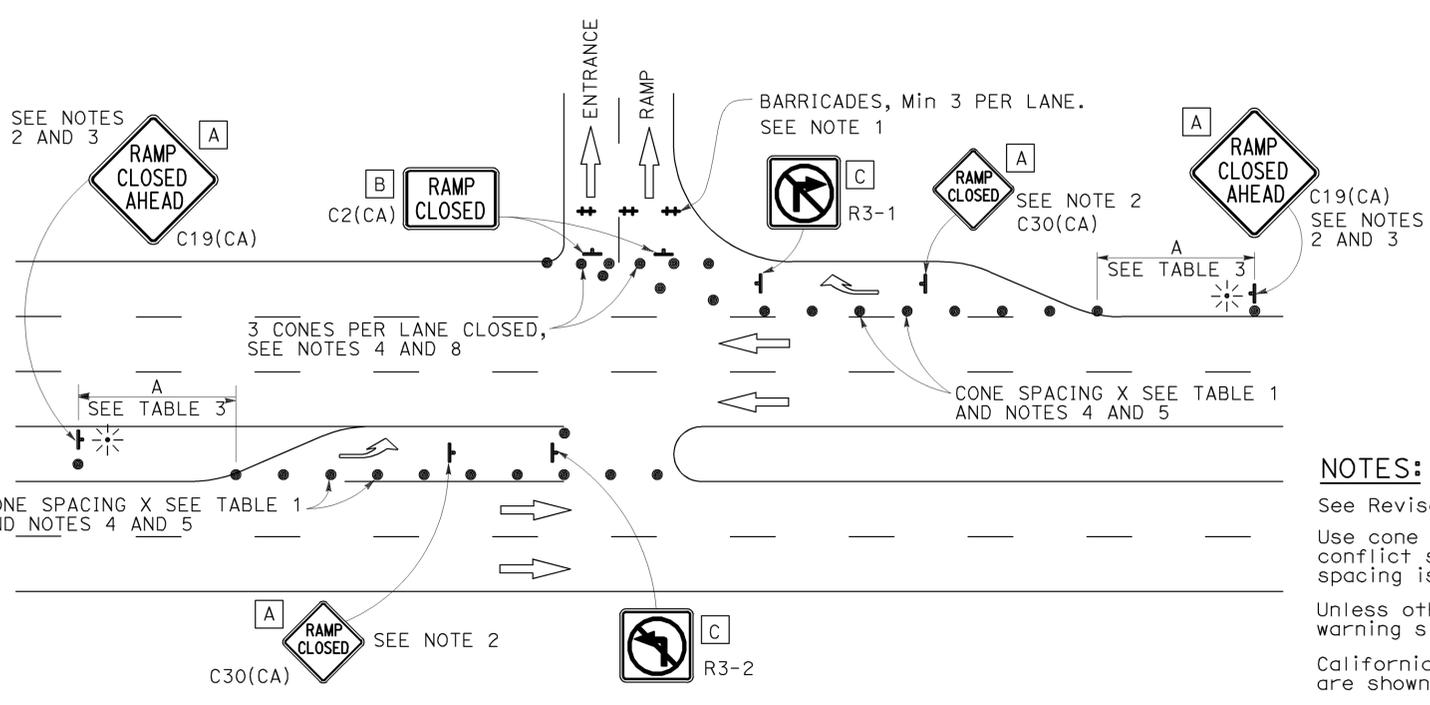
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- 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" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



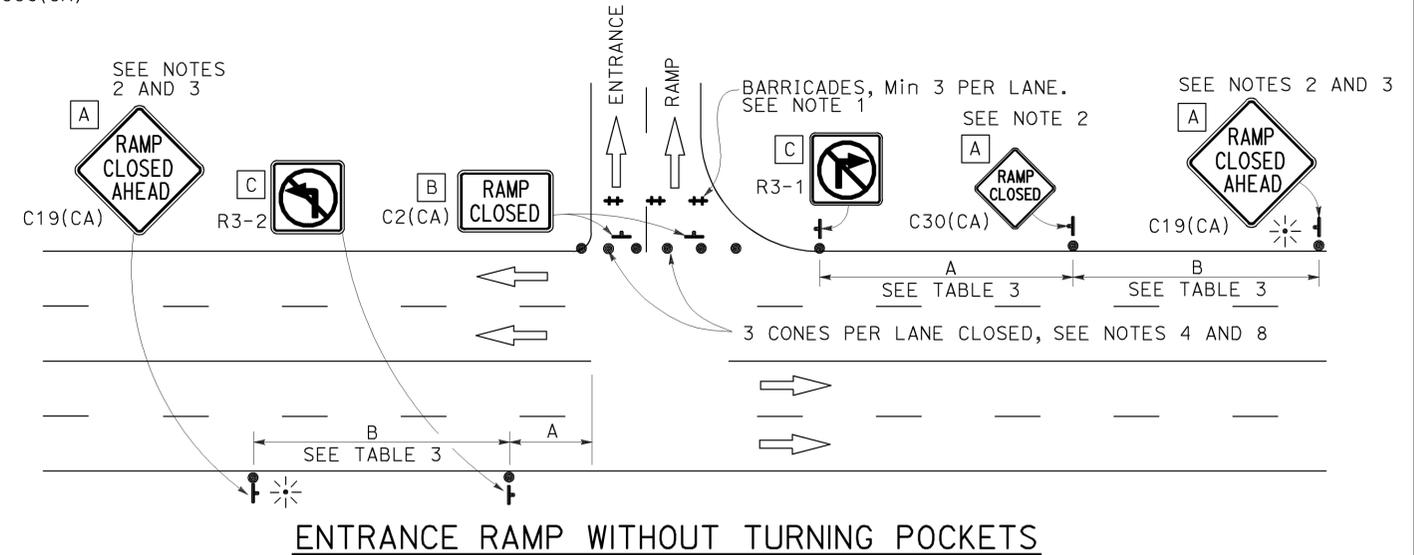
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURE**  
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14  
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.  
**REVISED STANDARD PLAN RSP T14**

2010 REVISED STANDARD PLAN RSP T14