

INDEX OF PLANS

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

ACNHP - X037(175)E

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN LOS ANGELES AND  
VENTURA COUNTIES  
AT VARIOUS LOCATIONS

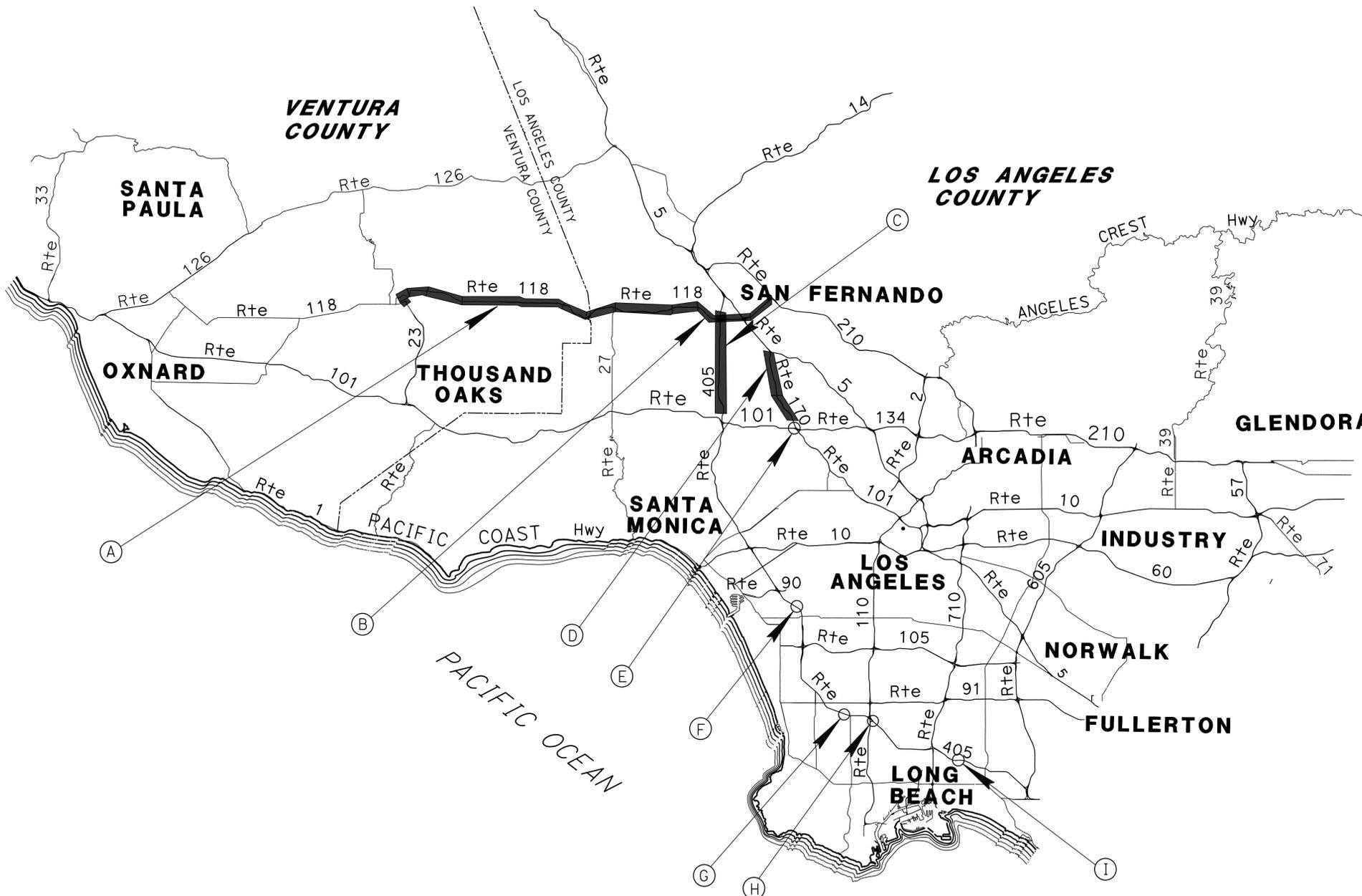
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	1	102



LOCATIONS OF CONSTRUCTION

No.	ROUTE	COUNTY	LIMIT IN POST MILE
(A)	118	Ven	R11.1/R32.6
(B)	118	LA	R0.0/R15.6
(C)	405	LA	40.0/47.8
(D)	170	LA	R14.8/R20.4
(E)	101	LA	R11.7/R11.9
(F)	405	LA	24.1
(G)	405	LA	14.5
(H)	405/110	LA	12.7/8.4
(I)	405	LA	3.7



PROJECT MANAGER  
REZA FATEH

DESIGN ENGINEER  
CECILIO BURCIAGA

6/24/14  
PROJECT ENGINEER DATE  
REGISTERED ELECTRICAL ENGINEER  
CECILIO BURCIAGA  
No. E015302  
Exp. 3/31/15  
ELECTRICAL  
STATE OF CALIFORNIA

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.

CONTRACT No.	07-3X9304
PROJECT ID	0713000329

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

NO SCALE

**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

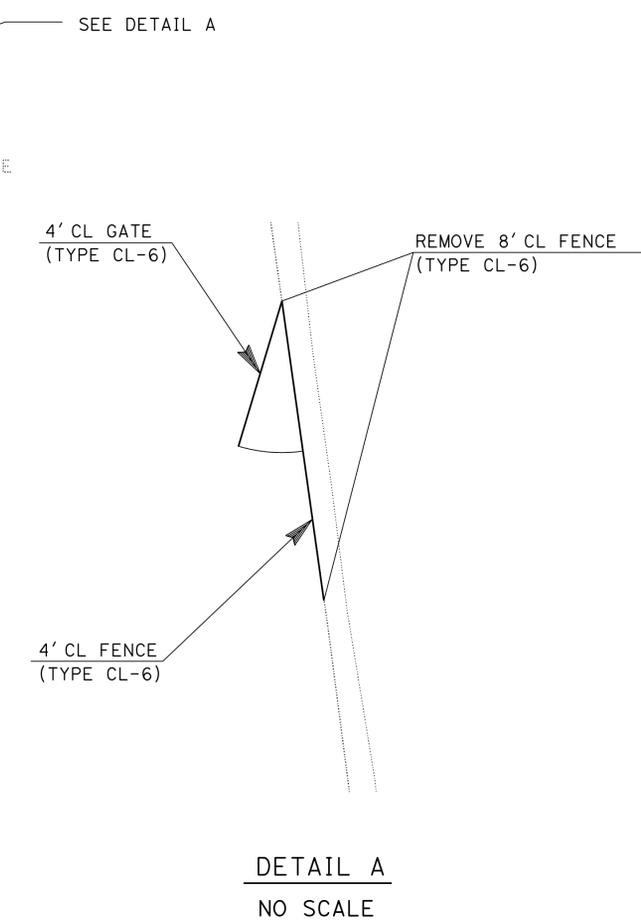
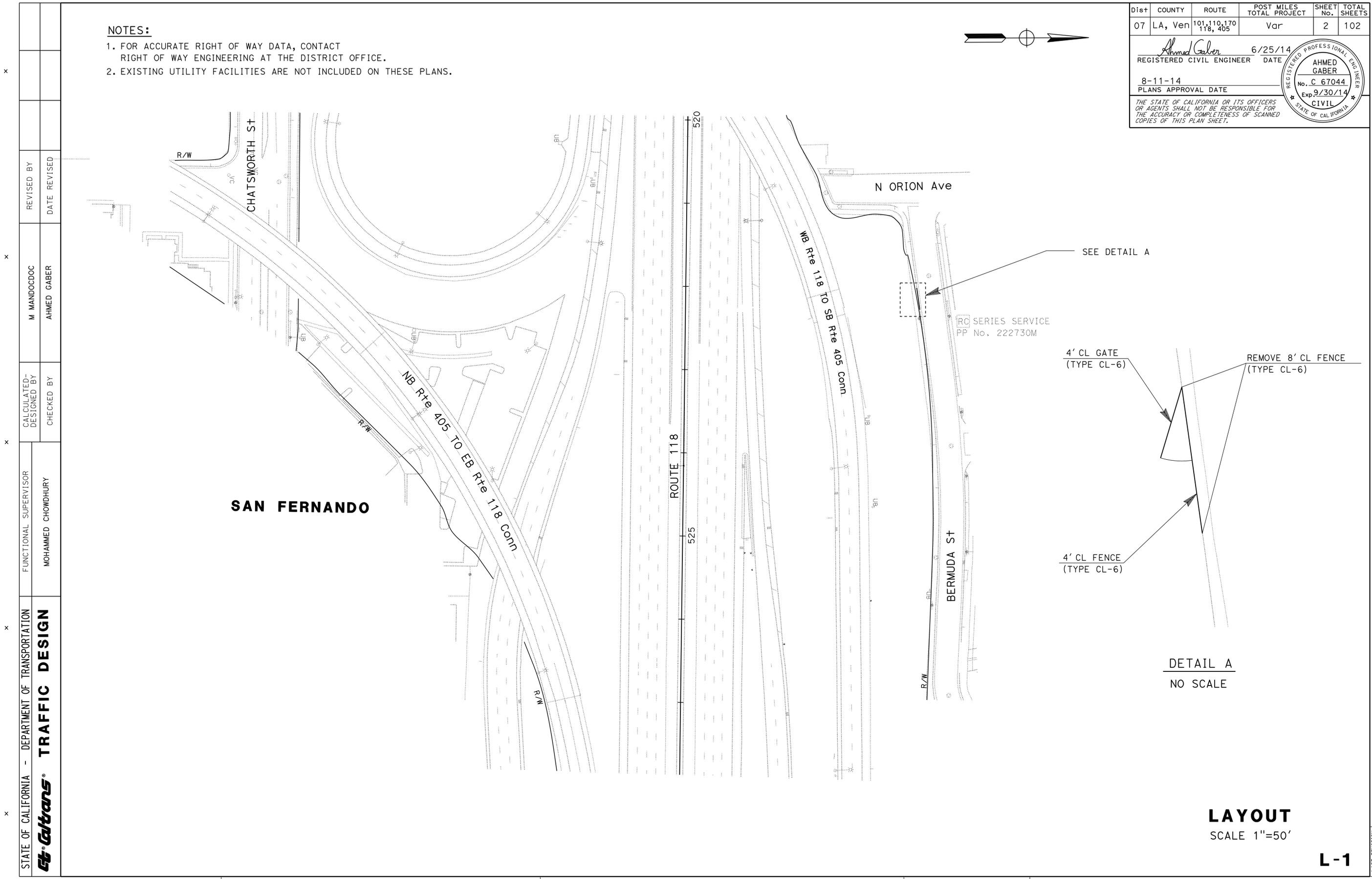
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	2	102

<i>Ahmed Gaber</i>	6/25/14
REGISTERED CIVIL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
 AHMED GABER  
 No. C 67044  
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>St. Catrans</b> TRAFFIC DESIGN	MOHAMMED CHOWDHURY	M MANDOCDOC	8-11-14
		AHMED GABER	

LAST REVISION      DATE PLOTTED => 12-SEP-2014      TIME PLOTTED => 09:42  
 00-00-00

**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	3	102

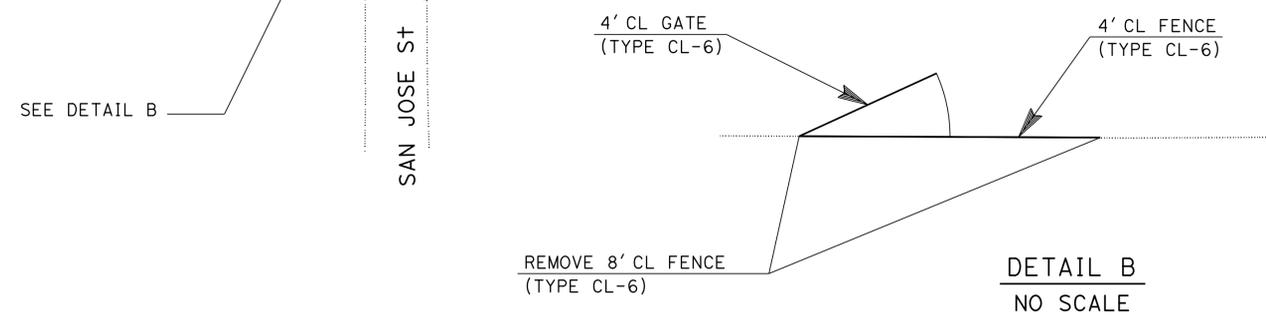
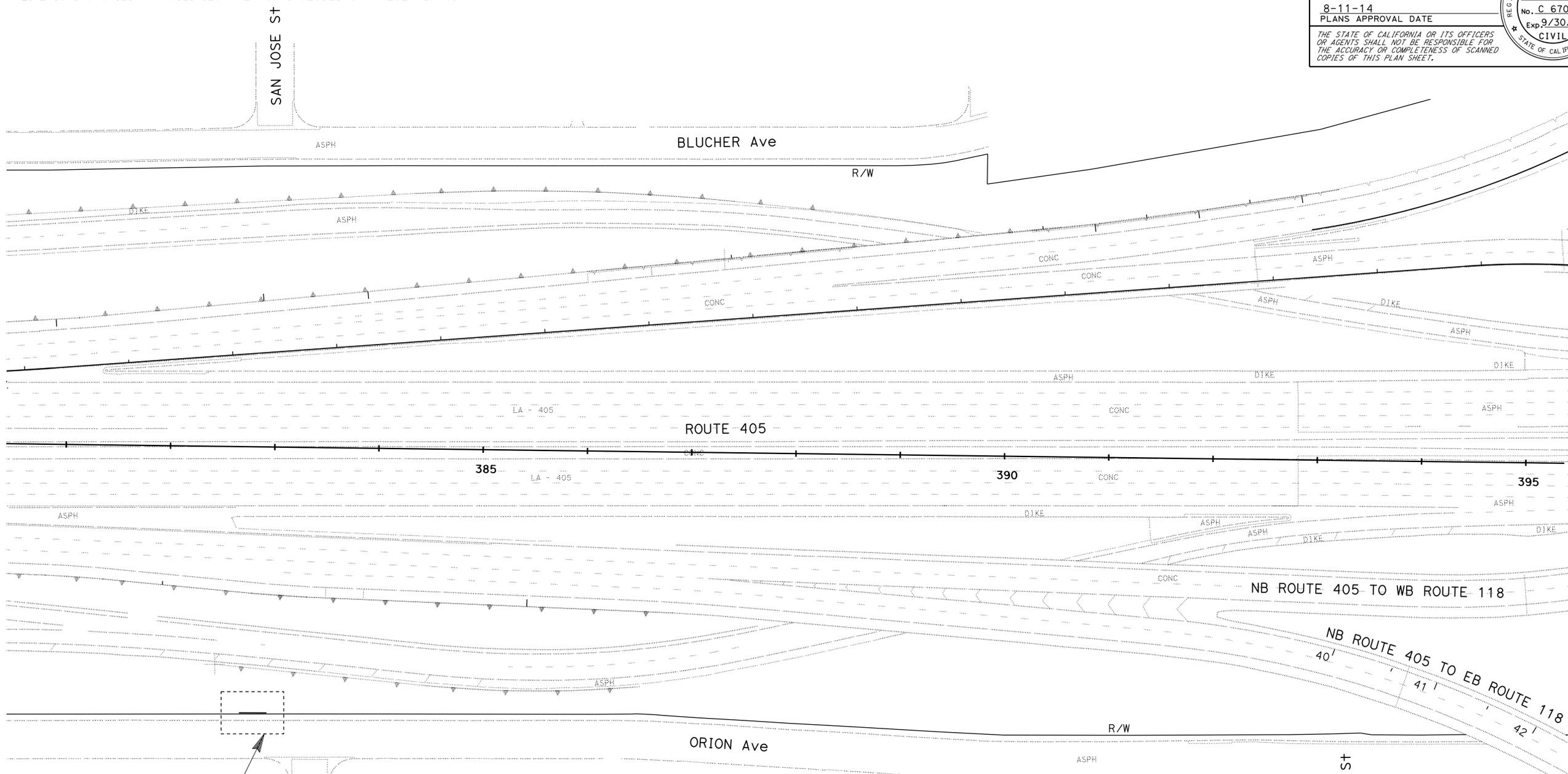
<i>Ahmed Gaber</i>	6/25/14
REGISTERED CIVIL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp 9/30/14 CIVIL STATE OF CALIFORNIA	
---	--

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Stantec** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 CALCULATED/DESIGNED BY: AHMED GABER  
 CHECKED BY: AHMED GABER  
 REVISIONS: M MANDOCDOC  
 REVISED BY: AHMED GABER  
 DATE REVISED:



**LAYOUT**  
SCALE 1"=50'

**L-2**

LAST REVISION: 00-00-00     
 DATE PLOTTED => 12-SEP-2014     
 TIME PLOTTED => 09:42



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	5	102

<i>Ahmed Gaber</i>	6/25/14
REGISTERED CIVIL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp 9/30/14 CIVIL STATE OF CALIFORNIA	
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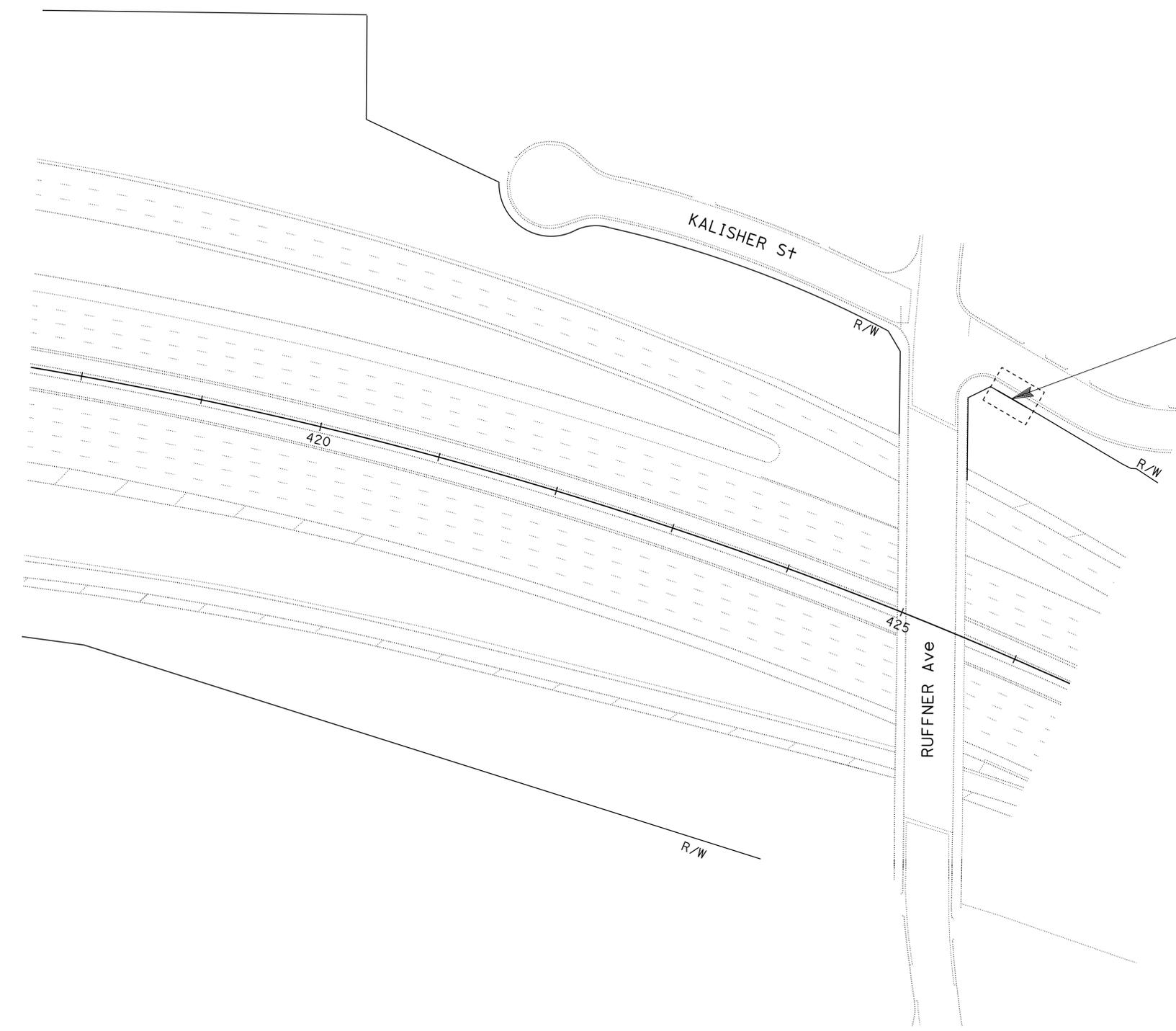
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans** TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
 MOHAMMED CHOWDHURY

CALCULATED-DESIGNED BY  
 CHECKED BY

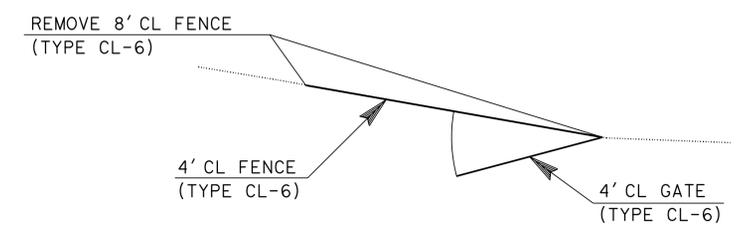
M MANDOCDOC  
 AHMED GABER

REVISED BY  
 DATE REVISED



SEE DETAIL D

**DETAIL D**  
 NO SCALE



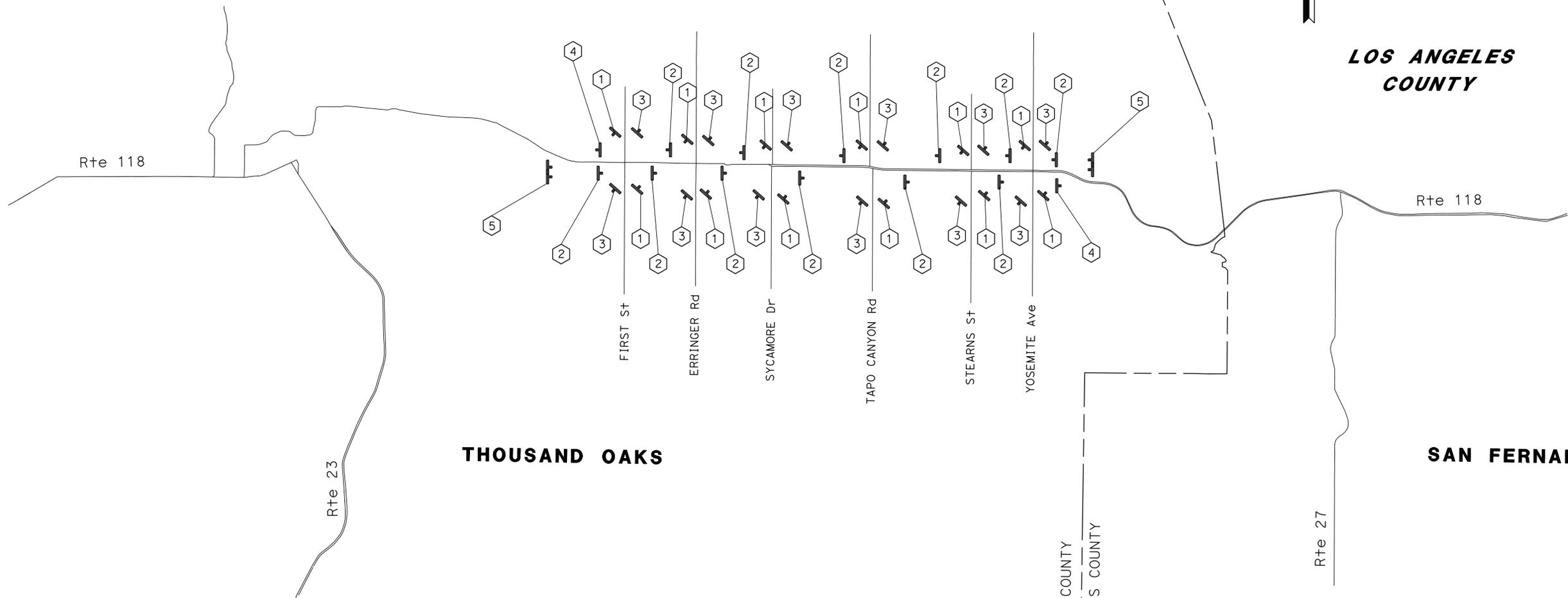
**LAYOUT**  
 SCALE 1"=50'

**L-4**

LAST REVISION      DATE PLOTTED => 12-SEP-2014      TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	6	102
Ahmed Gaber		5/28/14		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>					

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



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
①	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	12
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	12
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	12
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	2
⑤	C40 (CA)	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2

### CONSTRUCTION AREA SIGNS

NO SCALE

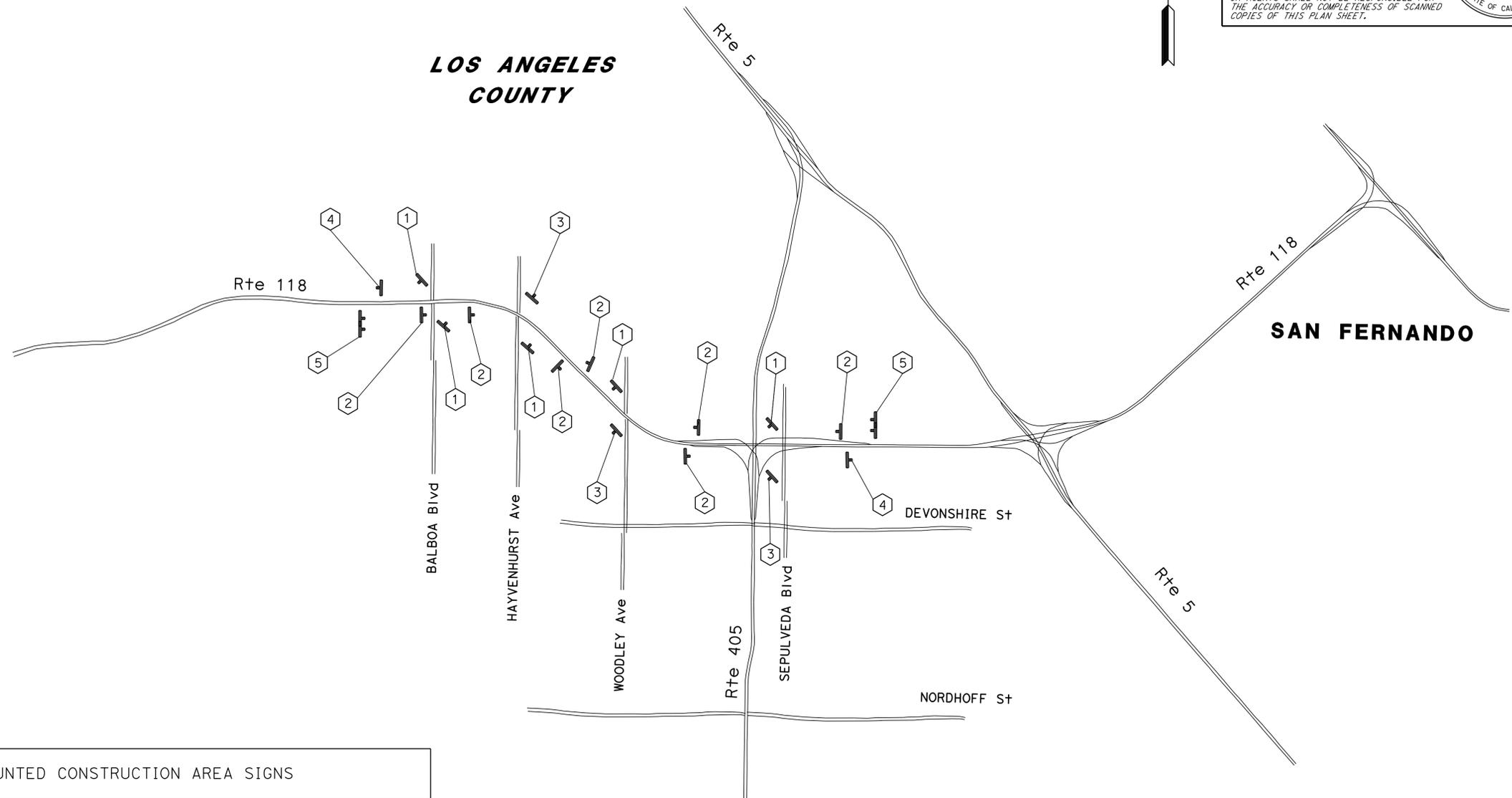
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	7	102
Ahmed Gaber REGISTERED CIVIL ENGINEER			5/28/14 DATE		
8-11-14			PLANS APPROVAL DATE		
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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
①	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	5
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	7
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	3
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	2
⑤	C40 (CA)	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2

### CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 CALCULATED-DRAWN BY: AHMED GABER  
 REVISIONS: M MANDOCDOC, AHMED GABER  
 REVISIONS: REVISIONS: REVISIONS: REVISIONS: REVISIONS:

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:42  
 LAST REVISION: 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	8	102

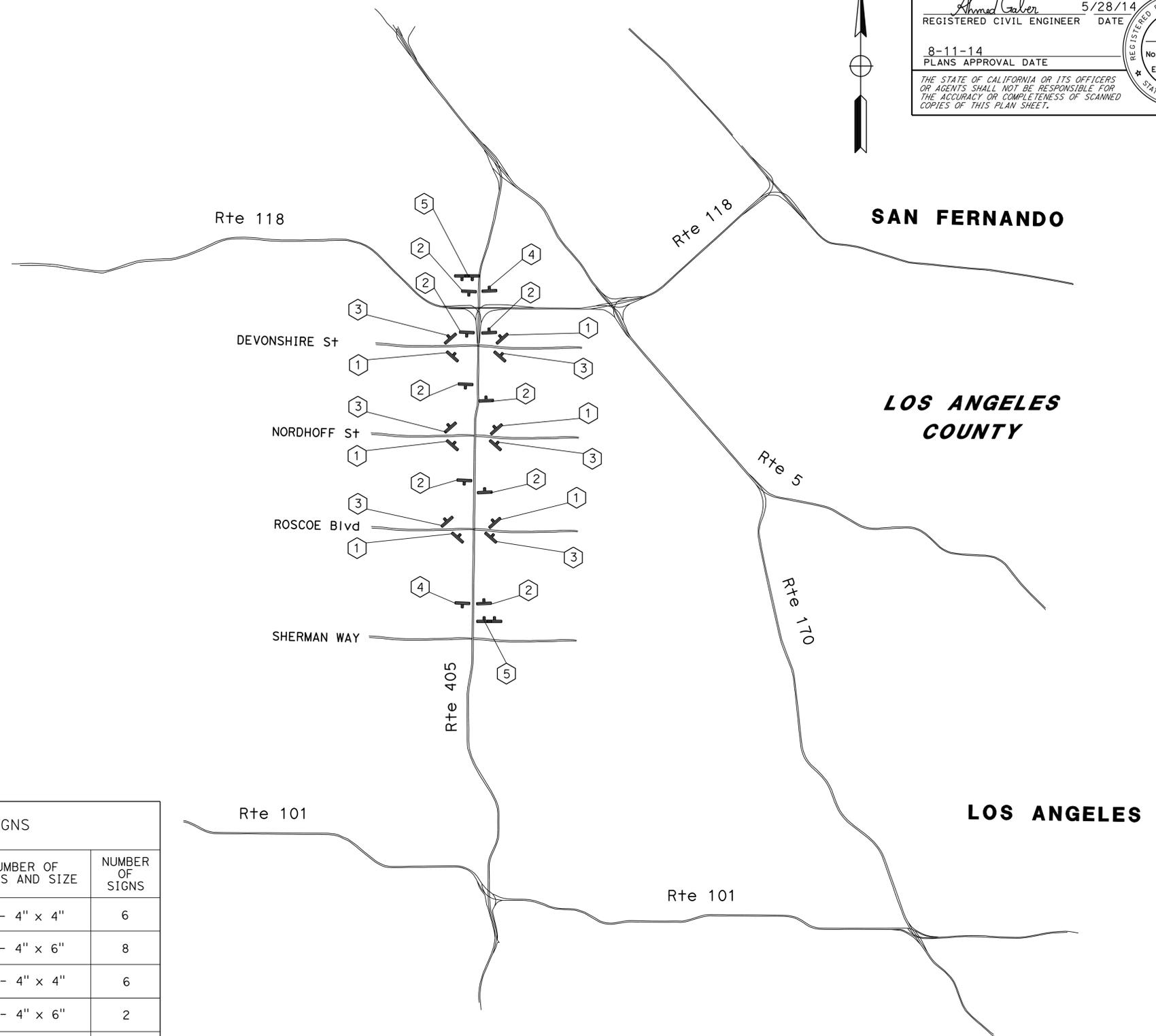
<i>Ahmed Gaber</i>	5/28/14
REGISTERED CIVIL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	
AHMED GABER	
No. C 67044	
Exp 9/30/14	
CIVIL	
STATE OF CALIFORNIA	

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
①	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	6
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	8
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	6
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	2
⑤	C40 (CA)	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2

### CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-3

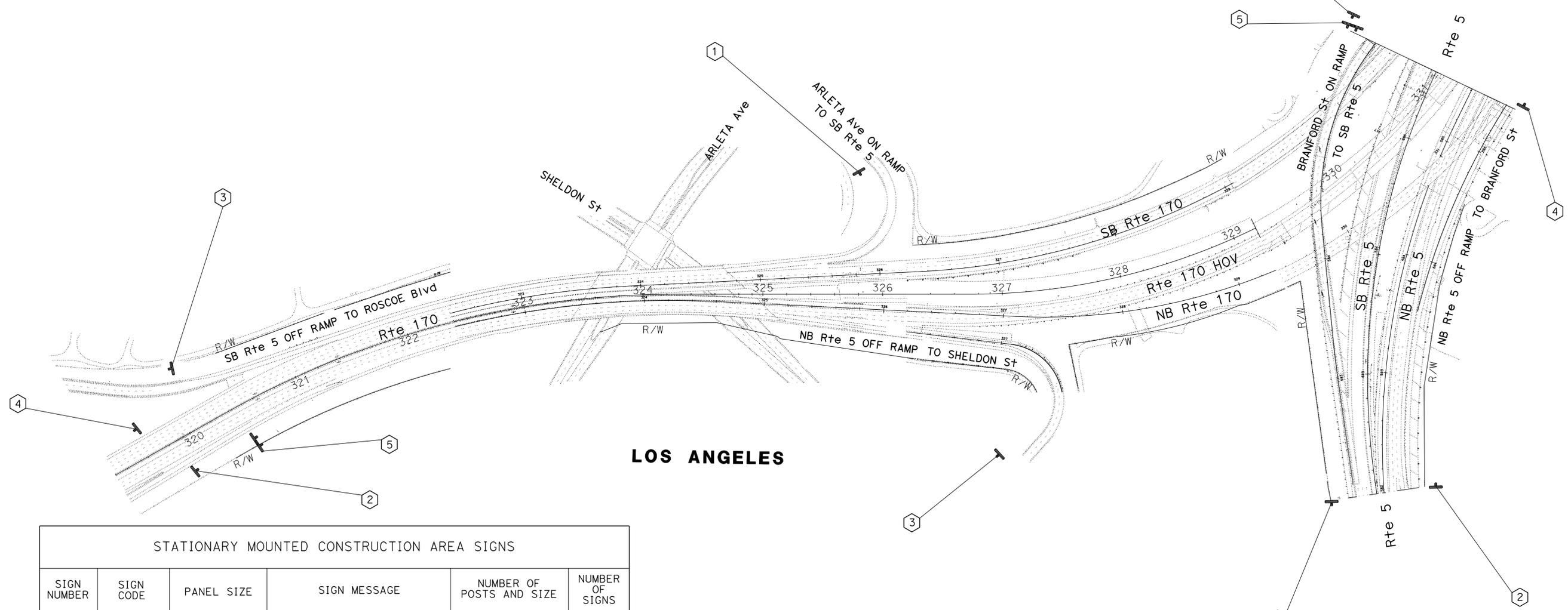
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Stantec** TRAFFIC DESIGN  
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
M MANDOCDOC  
AHMED GABER  
CALCULATED-DESIGNED BY: CHECKED BY:  
REVISOR BY: DATE REVISOR  
DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	9	102
Ahmed Gaber REGISTERED CIVIL ENGINEER DATE 6/25/14					
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>					

NOTE:  
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**LOS ANGELES COUNTY**



**LOS ANGELES**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
①	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	1
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	3
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	2
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	3
⑤	C40 (CA)	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2

**CONSTRUCTION AREA SIGNS**  
NO SCALE

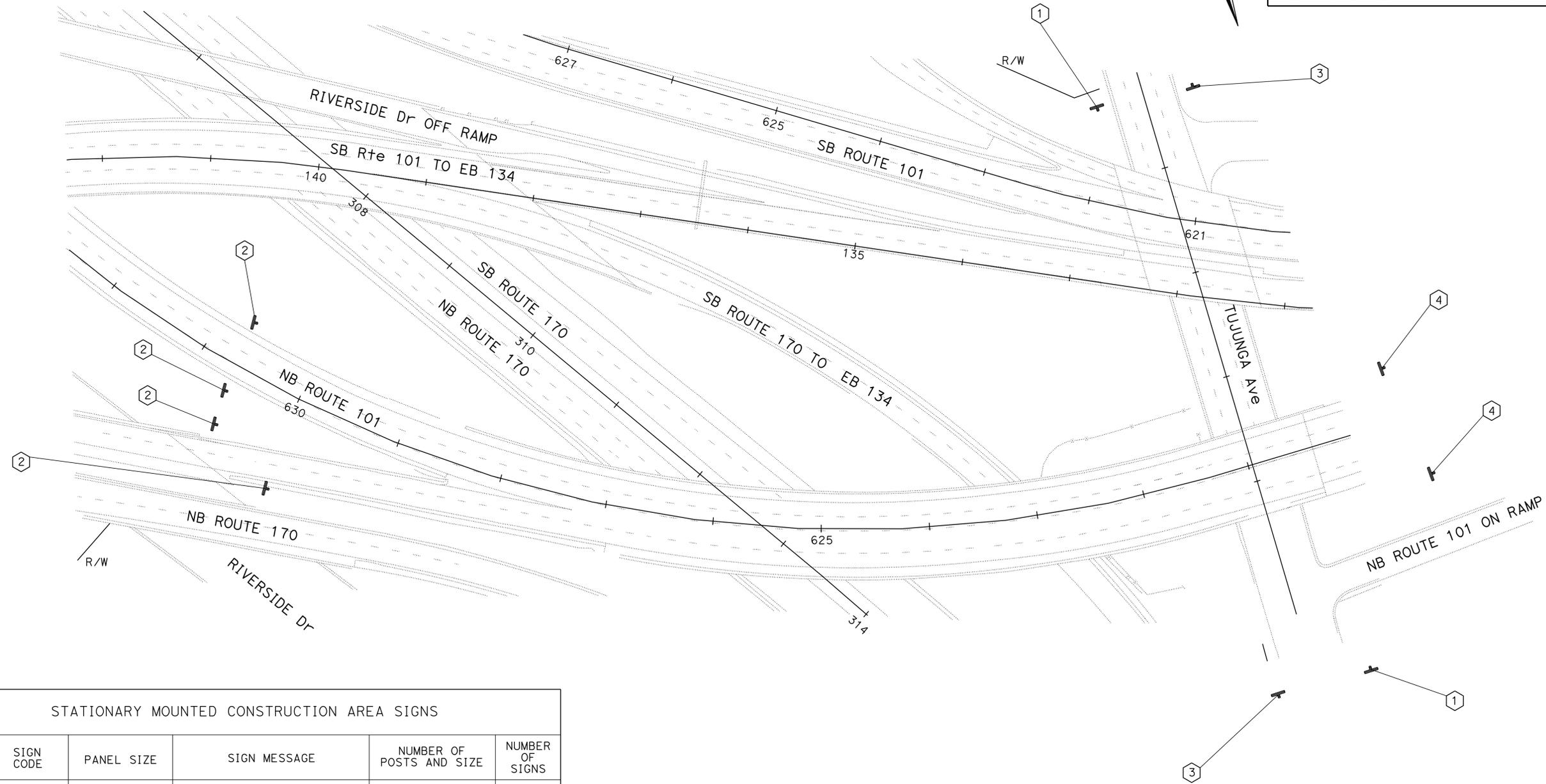
**CS-4**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 M MANDOCDOC: AHMED GABER  
 REVISIONS: REVISED BY / DATE REVISED  
 CALCULATED/DESIGNED BY / CHECKED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	10	102
<i>Ahmed Gaber</i> REGISTERED CIVIL ENGINEER			5/28/14 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>		

NOTE:  
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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
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①	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	2
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	4
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	2
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	2

### CONSTRUCTION AREA SIGNS

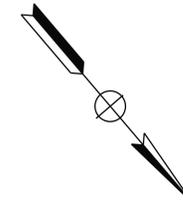
NO SCALE

**CS-5**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

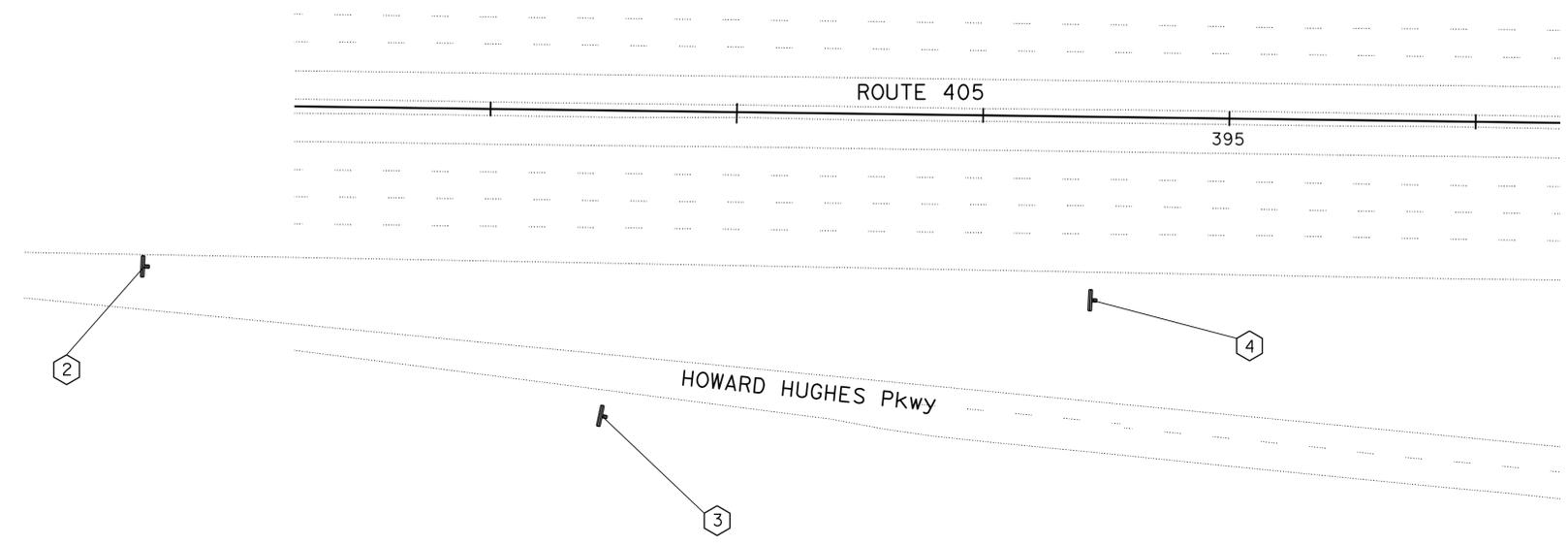
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 M MANDOCDOC: AHMED GABER  
 REVISIONS: (None listed)  
 REVISION BY: (None listed)  
 DATE REVISION: (None listed)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	11	102
REGISTERED CIVIL ENGINEER		DATE		No. C 67044	
Ahmed Gaber		5/28/14		Exp 9/30/14	
PLANS APPROVAL DATE		8-11-14			
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**LOS ANGELES**



**LOS ANGELES**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	1
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	1

**CONSTRUCTION AREA SIGNS**

NO SCALE

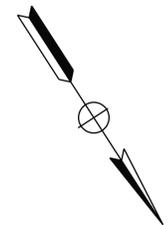
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CS-6**

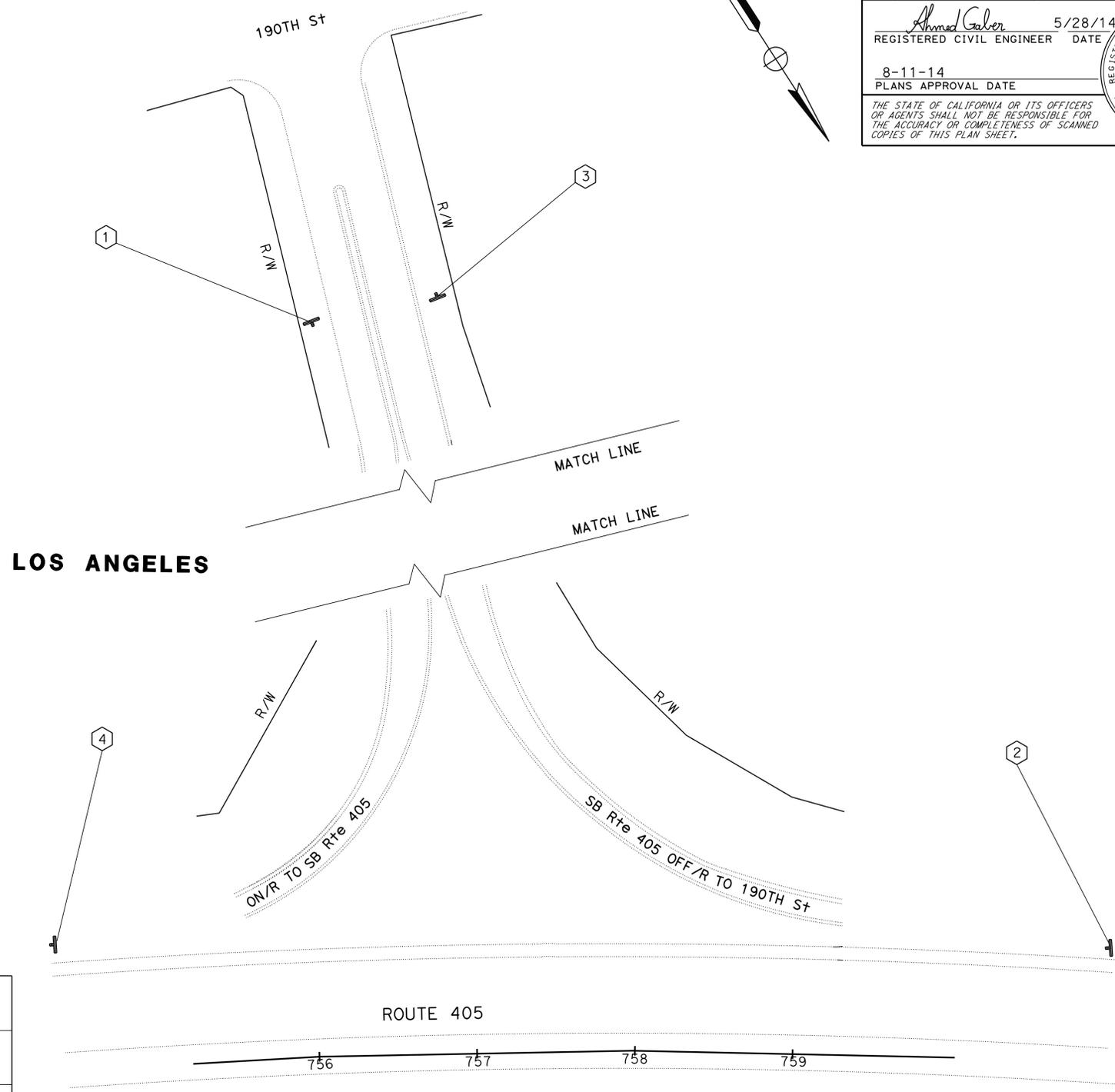
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 M MANDOCDOC: AHMED GABER  
 REVISIONS: REVISED BY, DATE REVISED  
 CALCULATED/DESIGNED BY, CHECKED BY

LAST REVISION: 00-00-00   
 DATE PLOTTED => 12-SEP-2014   
 TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	12	102
REGISTERED CIVIL ENGINEER		DATE		No. C 67044	
Ahmed Gaber		5/28/14		Exp 9/30/14	
PLANS APPROVAL DATE					
8-11-14					
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 2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**LOS ANGELES COUNTY**

**LOS ANGELES**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
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②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	1
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	1

**CONSTRUCTION AREA SIGNS**  
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CS-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - **Traffic Design**

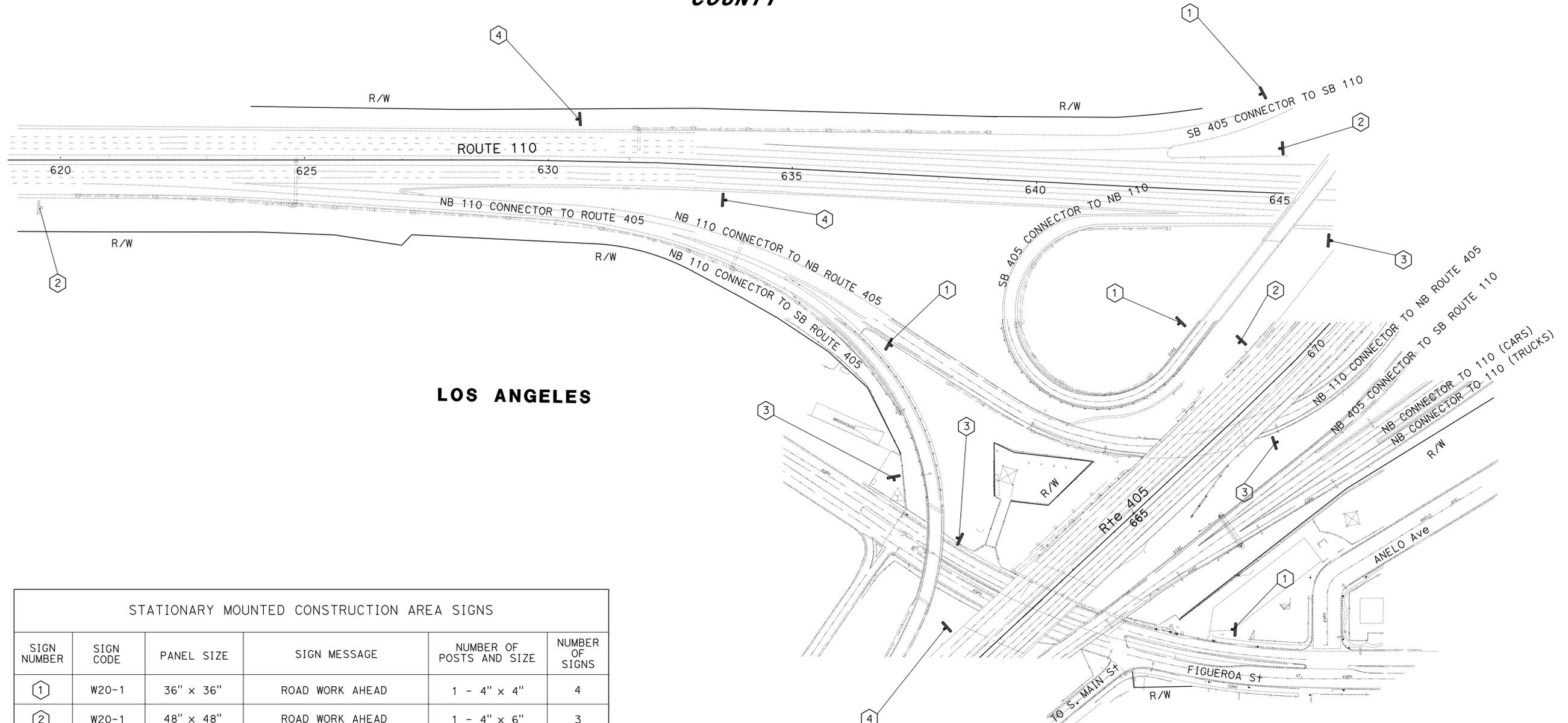
FUNCTIONAL SUPERVISOR	MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY	CHECKED BY
M MANDOCDOC	AHMED GABER
REVISED BY	DATE REVISED

DATE PLOTTED => 12-SEP-2014  
TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118, 405	Var	13	102
Ahmed Gaber REGISTERED CIVIL ENGINEER			5/28/14 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>					

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**LOS ANGELES COUNTY**



**LOS ANGELES**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
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①	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	4
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	3
③	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	4
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	3

**CONSTRUCTION AREA SIGNS**

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CS-8**

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

FUNCTIONAL SUPERVISOR  
MOHAMMED CHOWDHURY

CALCULATED-DESIGNED BY  
CHECKED BY

M MANDOCDOC  
AHMED GABER

REVISED BY  
DATE REVISED

x

x

x

x

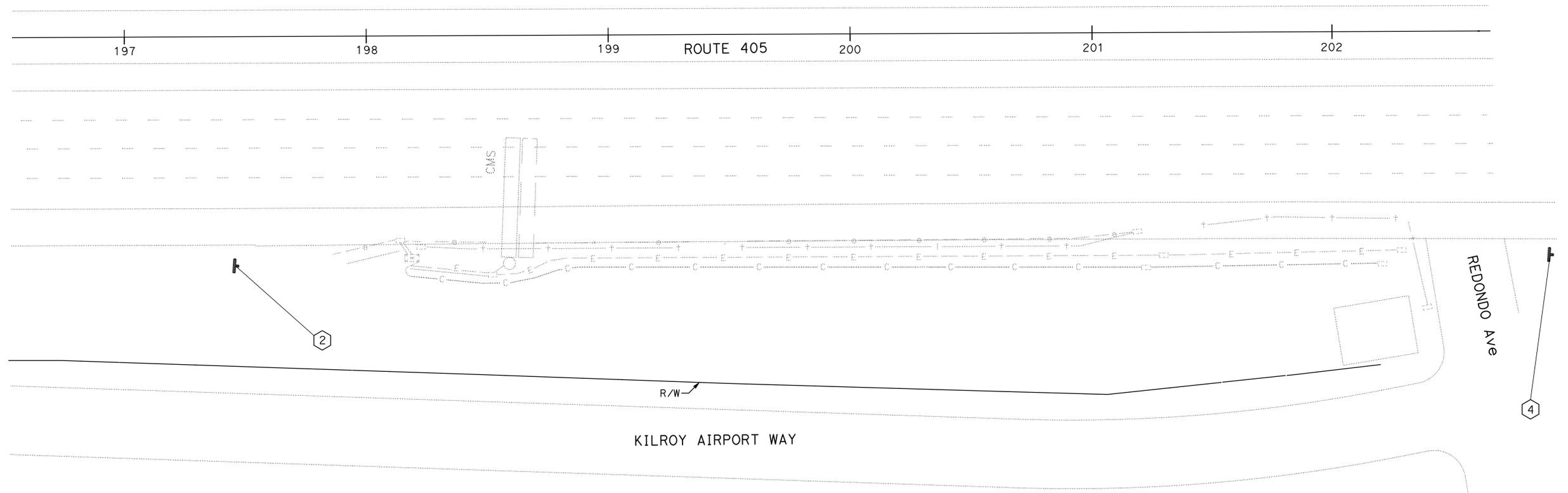
x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	14	102
		REGISTERED CIVIL ENGINEER <i>Ahmed Gaber</i> DATE 5/28/14			
		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>					



NOTE:  
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EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

**LOS ANGELES COUNTY**



**LOS ANGELES**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
②	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	1
④	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	1

**CONSTRUCTION AREA SIGNS**  
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CS-9**

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

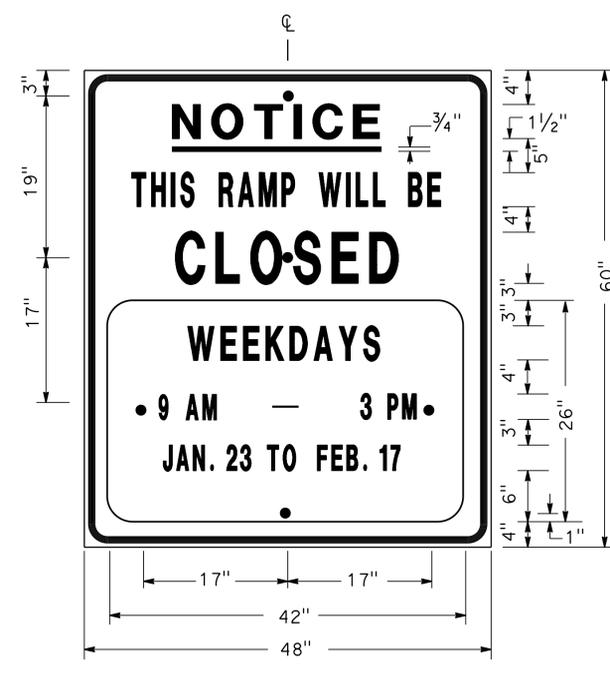
LAST REVISION: 00-00-00 | DATE PLOTTED => 12-SEP-2014 | TIME PLOTTED => 09:42

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR  
 SAM ESOUENAZI  
 CHECKED BY  
 ALBERT K YU  
 JOCELYN C CHIANG  
 REVISIONS:  
 JC 2/14  
 REVISED BY  
 DATE REVISED

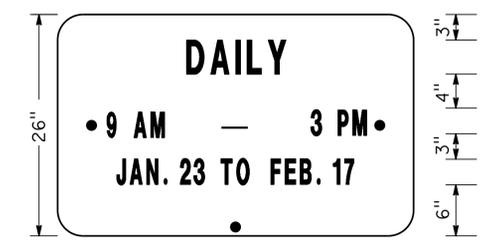
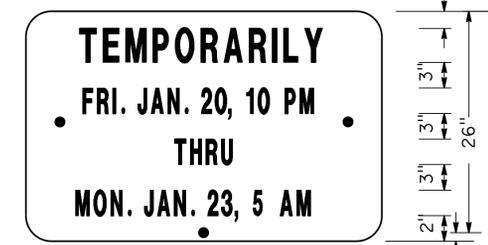
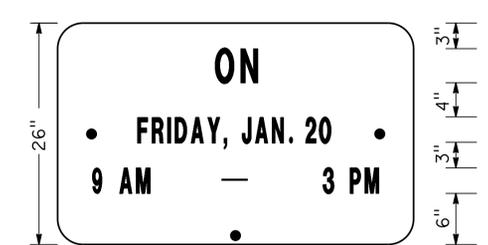
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	15	102

REGISTERED CIVIL ENGINEER  
 ALBERT K. YU  
 No. 43220  
 Exp 3/31/16  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 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.



SIGN SP-1



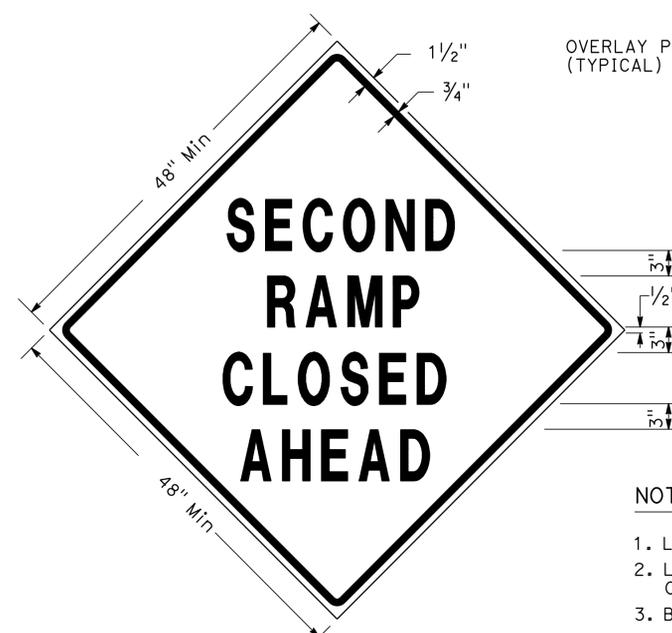
ALTERNATE OVERLAY PANELS (TYPICAL)

- 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**



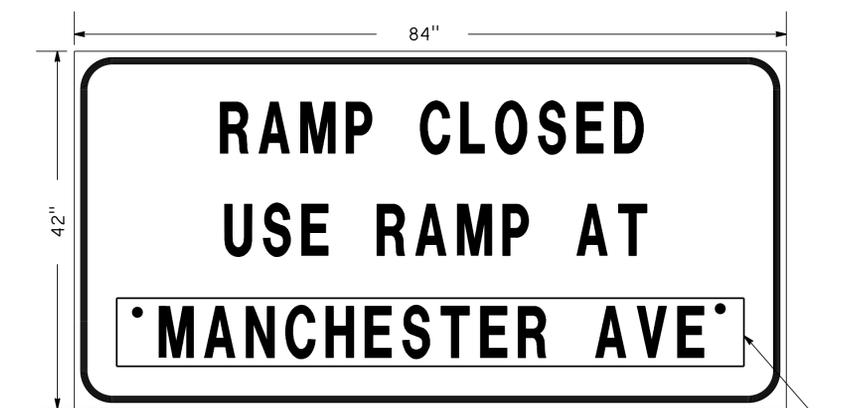
SIGN SP-3



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**

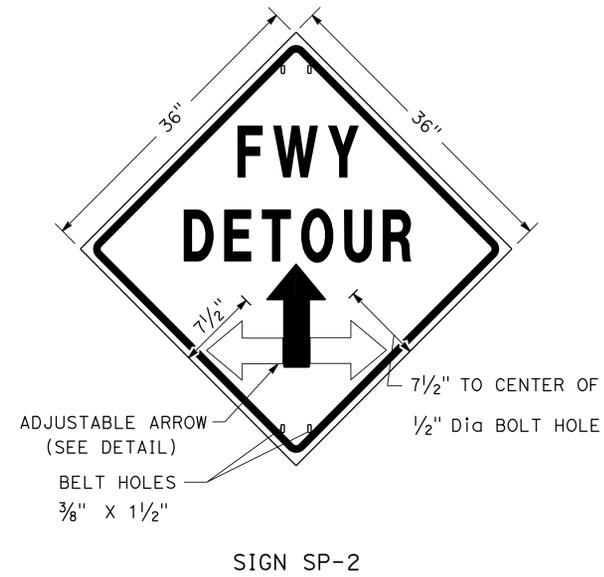
SHEET 1 OF 2  
 NO SCALE

THD-1

DATE PLOTTED => 12-SEP-2014 TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	16	102
<i>Albert K. Yu</i> REGISTERED CIVIL ENGINEER DATE 3-24-14			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.					

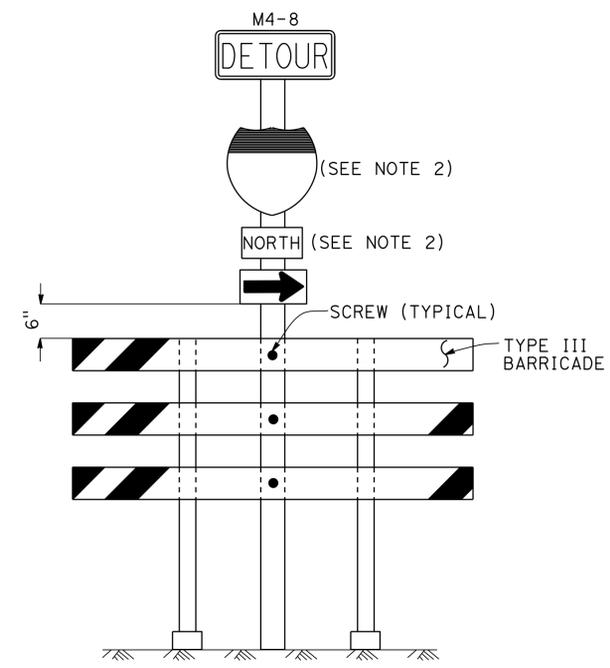
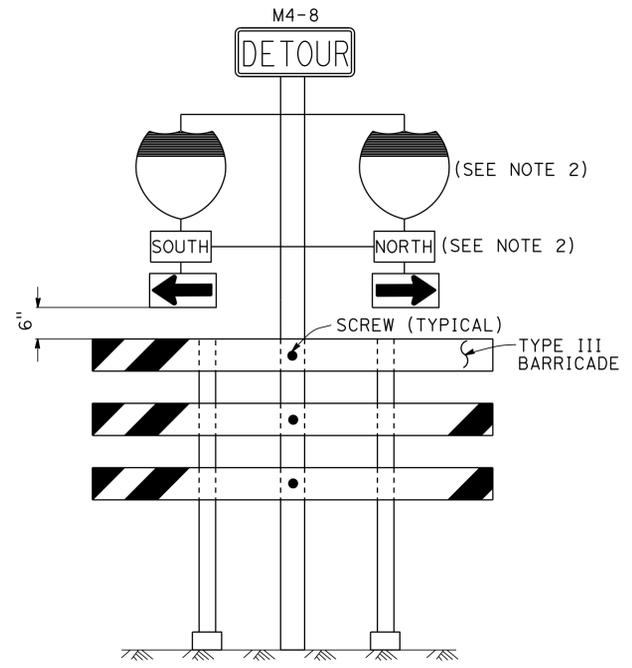
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR  
 SAM ESOUENAZI  
 CHECKED BY  
 JOCELYN C CHIANG  
 REVISIONS:  
 2/14 JC  
 DATE REVISOR



**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.

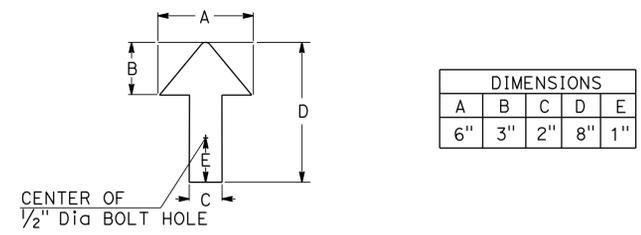
**ABBREVIATION**  
 (CA) CALIFORNIA CODE



**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: 00-00-00    DATE PLOTTED => 12-SEP-2014    TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	17	102

REGISTERED CIVIL ENGINEER	DATE
<i>Albert K. Yu</i>	3-24-14
8-11-14	PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER	No.	Exp
ALBERT K. YU	43220	3/31/16
CIVIL	STATE OF CALIFORNIA	

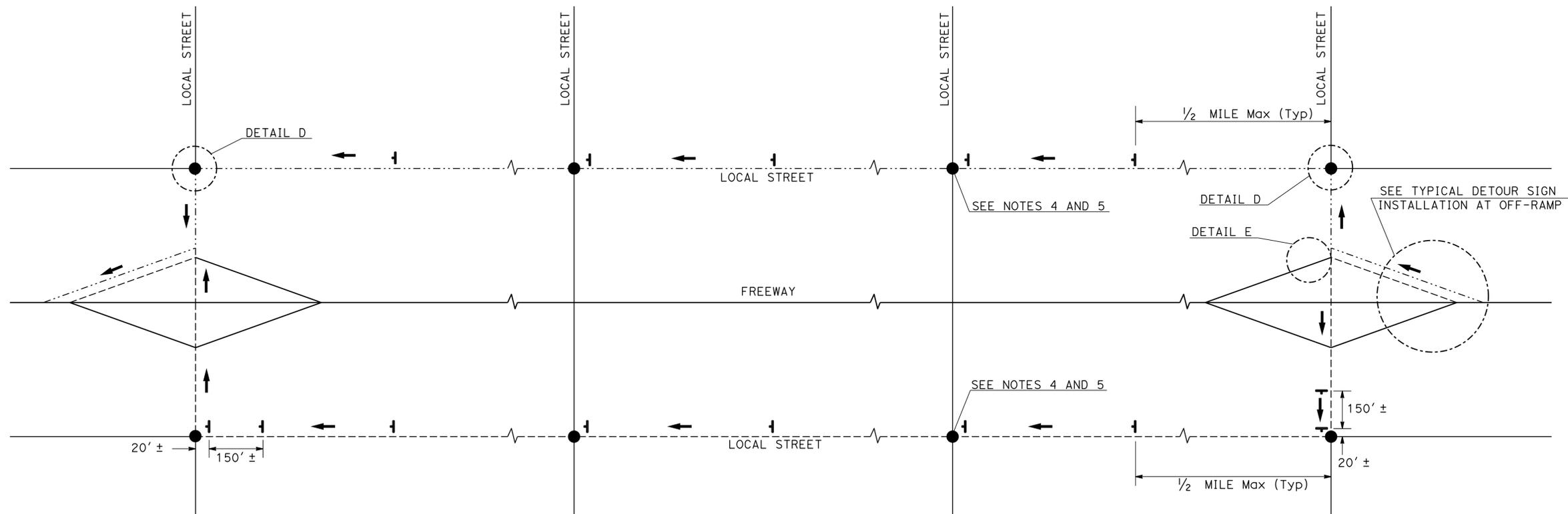
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LEGEND**

-  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**

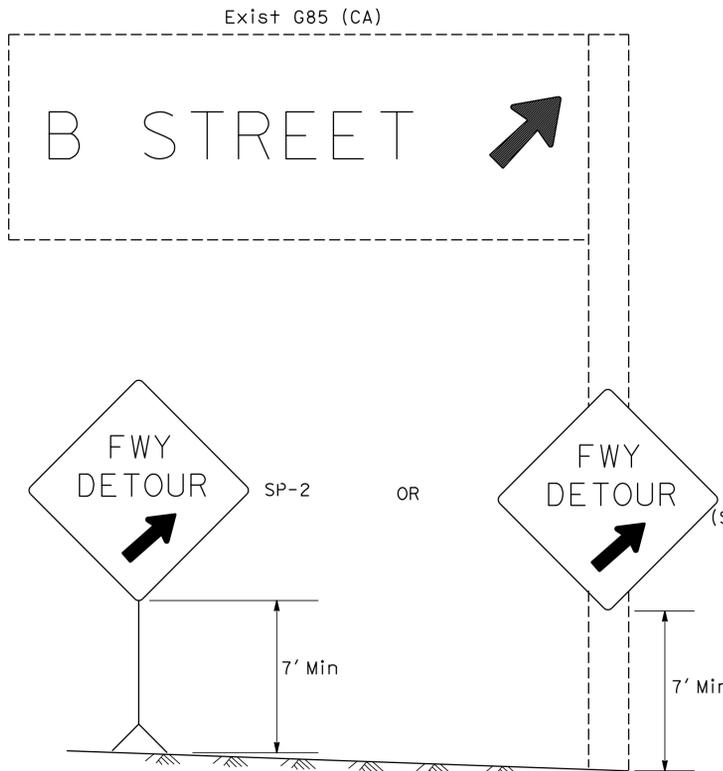
**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 1 OF 2**

NO SCALE

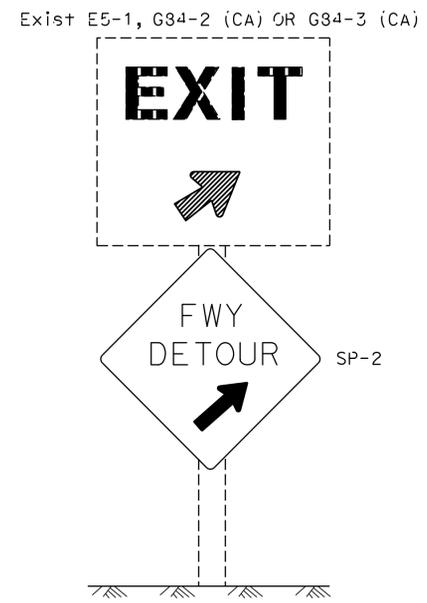
**THD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR  
 SAM ESOUENAZI  
 CHECKED BY  
 JOCELYN C CHIANG  
 DESIGNED BY  
 ALBERT K YU  
 REVISOR  
 JC  
 DATE REVISOR  
 2/14

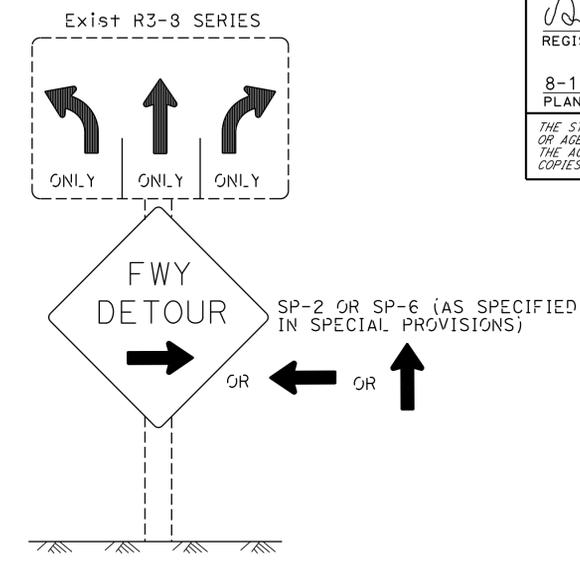
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	18	102
REGISTERED CIVIL ENGINEER ALBERT K. YU No. 43220 Exp 3/31/16 CIVIL STATE OF CALIFORNIA			3-24-14 DATE 8-11-14 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



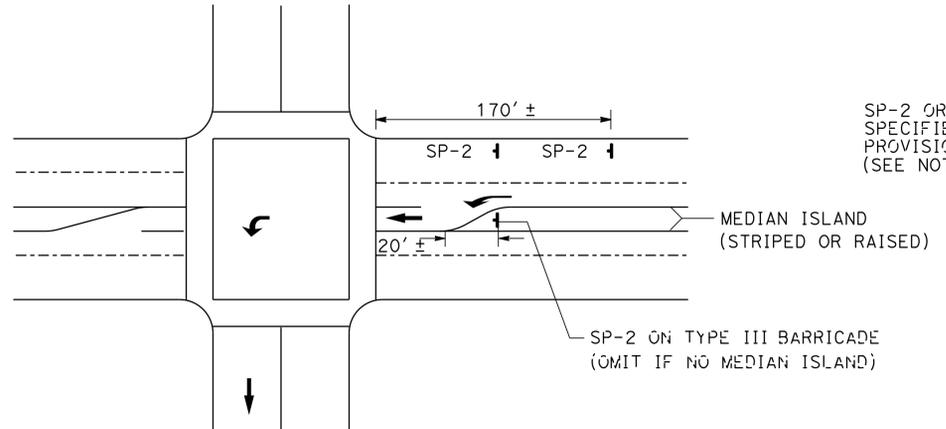
DETAIL A (SEE NOTE 3)



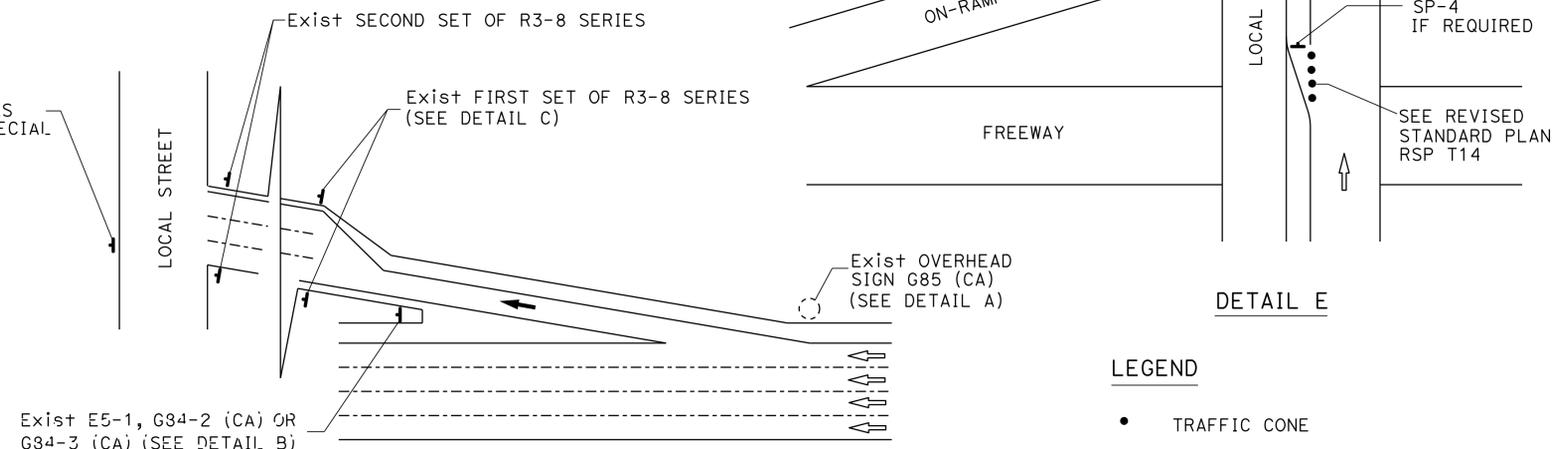
DETAIL B (SEE NOTE 3)



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



DETAIL D



DETAIL E

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

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

**NOTES: SIGN SP-2**

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. 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.
5. 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.
6. EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

**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 2**

NO SCALE

**THD-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DT M  
 FUNCTIONAL SUPERVISOR  
 SAM ESQUENAZI  
 CHECKED BY  
 ALBERT K YU  
 JOCELYN C CHIANG  
 REVISOR BY  
 DATE REVISOR  
 JC  
 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	19	102
<i>Albert K. Yu</i> REGISTERED CIVIL ENGINEER DATE 3-24-14					
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>					

**NOTES:**

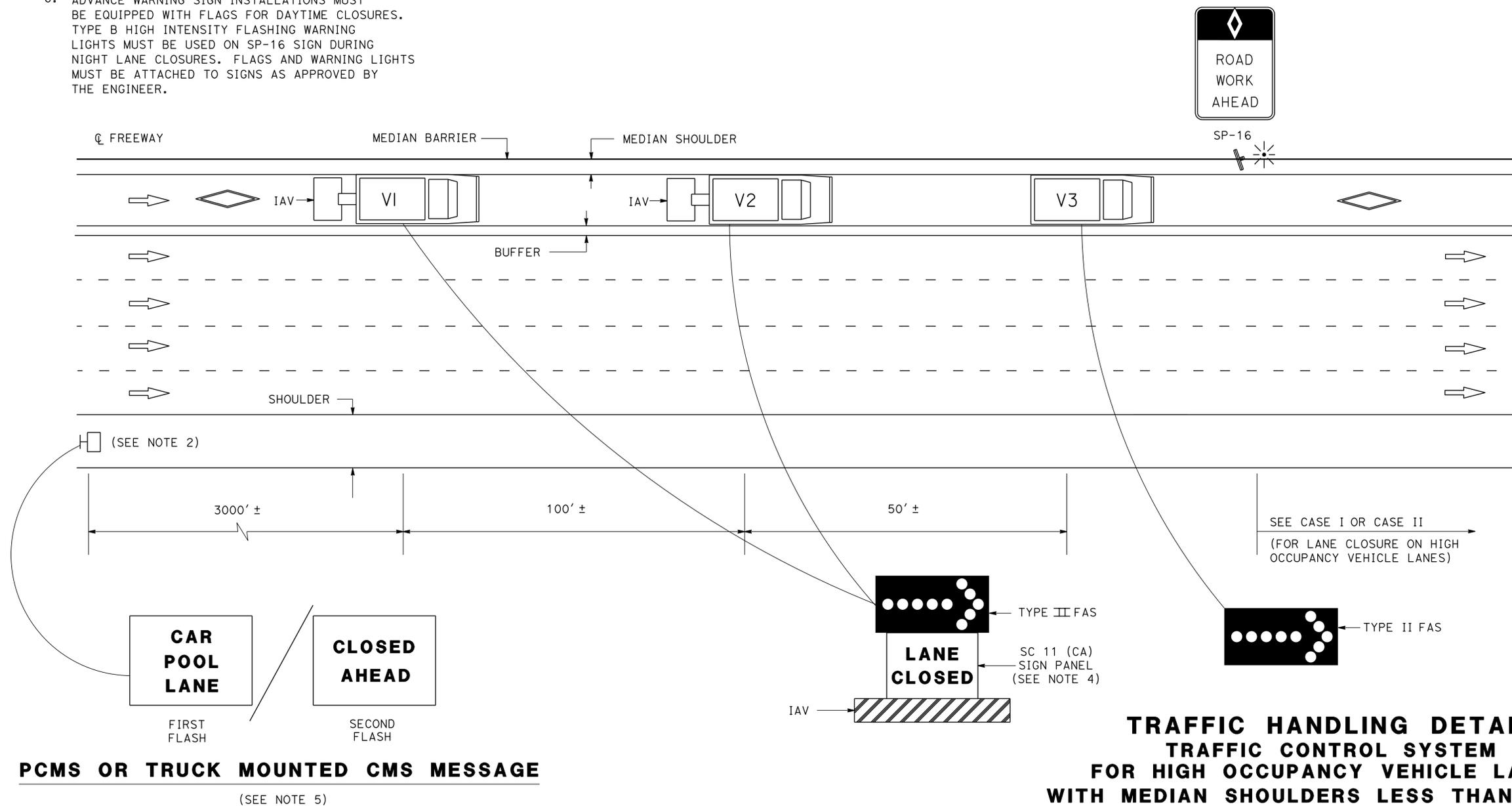
- LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' MUST BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
- PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.
- ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.

**LEGEND**

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
- PCMS
- PORTABLE FLASHING BEACON
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)

**ABBREVIATIONS**

- IAV IMPACT ATTENUATOR VEHICLE
- (CA) CALIFORNIA CODE
- CHP CALIFORNIA HIGHWAY PATROL



**PCMS OR TRUCK MOUNTED CMS MESSAGE**  
(SEE NOTE 5)

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR HIGH OCCUPANCY VEHICLE LANES  
WITH MEDIAN SHOULDERS LESS THAN 8 FEET**

NO SCALE

**THD-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DT M  
 FUNCTIONAL SUPERVISOR  
 SAM ESOUENAZI  
 CHECKED BY  
 JOCELYN C CHIANG  
 REVISOR BY  
 ALBERT K YU  
 DATE REVISOR  
 2/14

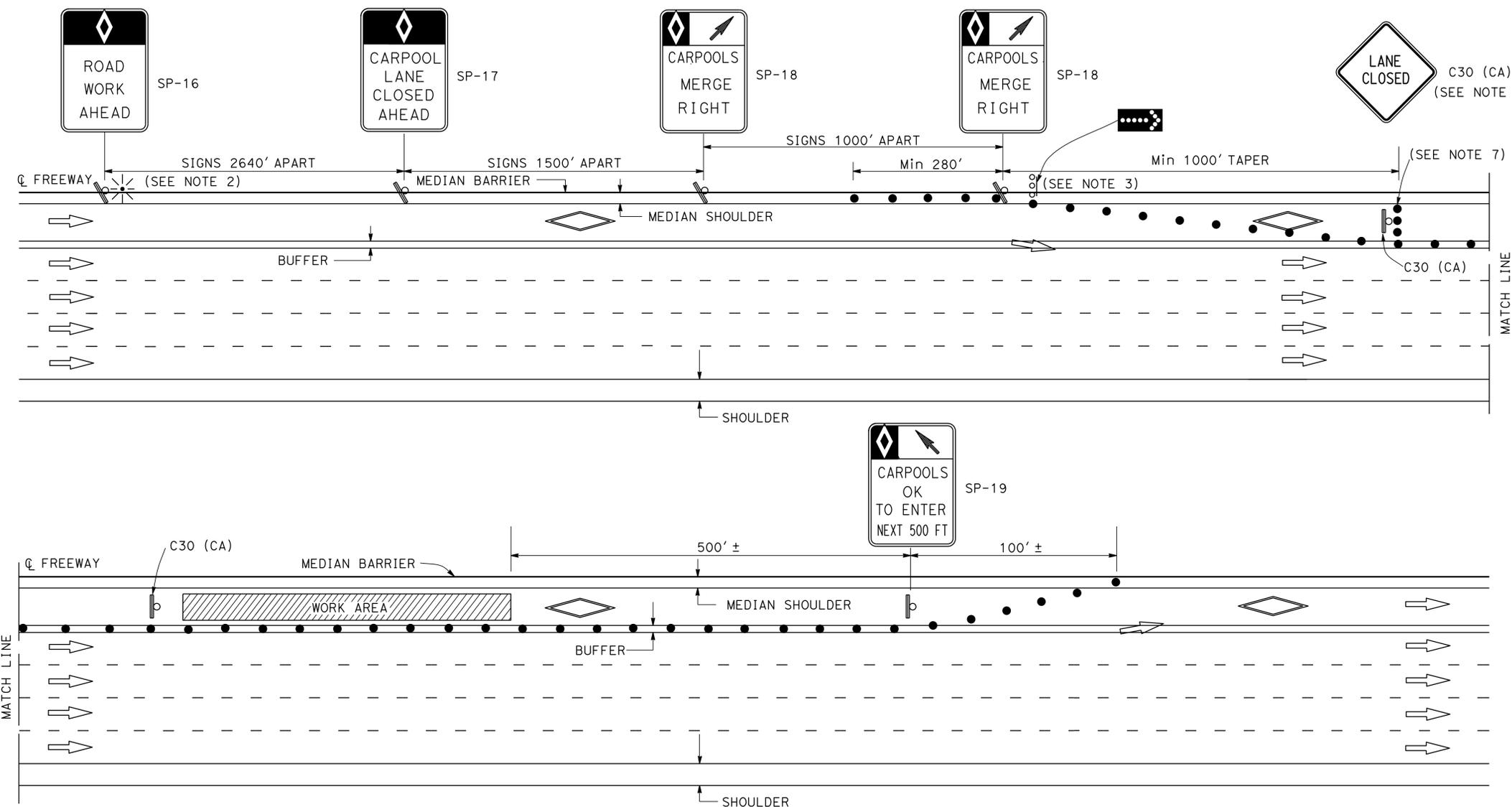
LAST REVISION   
 DATE PLOTTED => 12-SEP-2014   
 TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	20	102

8-11-14  
 REGISTERED CIVIL ENGINEER DATE  
 3-24-14  
 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.

REGISTERED PROFESSIONAL ENGINEER  
 ALBERT K. YU  
 No. 43220  
 Exp. 3/31/16  
 CIVIL  
 STATE OF CALIFORNIA



- LEGEND**
- TRAFFIC CONE
  - ⊛ PORTABLE FLASHING BEACON
  - ⊐ TEMPORARY TRAFFIC CONTROL SIGN
  - ⊛ FLASHING ARROW SIGN (FAS)
  - ⊐ FAS SUPPORT OR TRAILER

**ABBREVIATIONS**

(CA) CALIFORNIA CODE

**SIGN PANEL SIZE (MIN)**

SP-16	36" X 54"
SP-17	36" X 54"
SP-18	36" X 48"
SP-19	36" X 60"
C30 (CA)	30" X 30"
G20-2	48" X 24"

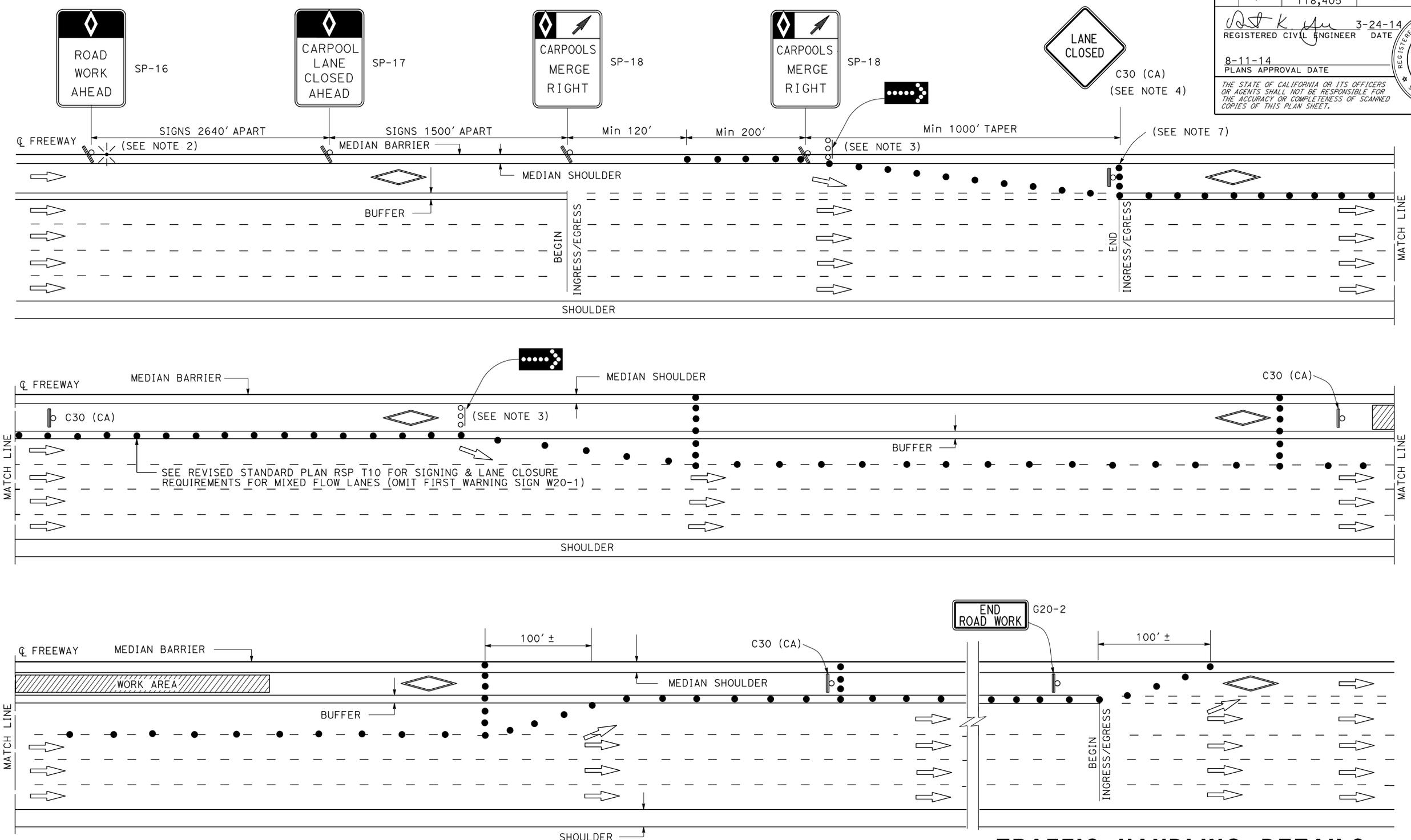
**NOTES: FOR CASE I AND CASE II**

1. AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN MUST BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES MUST BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. IF AN INGRESS/EGRESS AREA IS WITHIN 5250' UPSTREAM OR DOWNSTREAM OF THE WORK AREA, LANE CLOSURES MUST BE EXTENDED TO THAT AREA AS SHOWN IN CASE II.
9. SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
10. SIGNS SP-16, 17, 18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 MUST BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR HIGH OCCUPANCY VEHICLE LANES**  
**AT NON-INGRESS/EGRESS AREAS**  
**CASE I**  
 NO SCALE  
**THD-6**

JC 2/14  
 REVISED BY DATE REVISED  
 ALBERT K YU JOCELYN C CHIANG  
 CALCULATED-DESIGNED BY CHECKED BY  
 SAM ESOUENAZI  
 FUNCTIONAL SUPERVISOR  
 DEPARTMENT OF TRANSPORTATION  
 DTM  
 STATE OF CALIFORNIA  
 Caltrans

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	21	102
REGISTERED CIVIL ENGINEER ALBERT K. YU No. 43220 Exp 3/31/16 CIVIL STATE OF CALIFORNIA			3-24-14 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.		



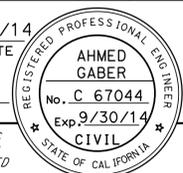
**NOTES:**

1. SEE CASE I FOR NOTES, LEGEND, SIGN PANEL, AND ABBREVIATIONS FOR THIS SHEET.
2. CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN ON THIS SHEET. MULTIPLE MIXED FLOW LANE CLOSURES ARE SIMILAR.

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR HIGH OCCUPANCY**  
**VEHICLE LANES AND ADJACENT FREEWAY LANES**  
**BETWEEN INGRESS/EGRESS AREAS**  
**CASE II**  
 NO SCALE  
**THD-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR  
 SAM ESOUENAZI  
 CHECKED BY  
 JOCELYN C CHIANG  
 REVISIONS BY  
 ALBERT K YU  
 DATE REVISION  
 2/14  
 JC

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:42  
 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	22	102
			6/25/14		
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>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Catrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY  
 CALCULATED-DESIGNED BY: M MANDOCDOC  
 CHECKED BY: AHMED GABER  
 REVISIONS: REVISED BY: DATE REVISION:

### 6' CHAIN LINK FENCE

SHEET No.	LOCATION	REMOVE CHAIN LINK FENCE	CHAIN LINK FENCE (TYPE CL-6)	4' CHAIN LINK GATE (TYPE CL-6)
		LF	LF	EA
L-1	Sta 527+ 88	8	4	1
L-2	Sta 382+82	8	4	1
L-3	Sta 625+75	8	4	1
L-4	Sta 425+20	8	4	1
TOTAL		32	16	4

### TEMPORARY WATER POLLUTION CONTROL QUANTITIES

TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY GRAVEL BAG BERM
EA	LF
70	2000

### ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)

SHEET No.	LOCATION	REMOVE EXCESS MATERIAL
		CY
E-24	ROUTE 405 Sta 662+89 TO Sta 667+25	0
E-25	ROUTE 110 Sta 620+00 TO Sta 645+00	0
E-26	ROUTE 405 Sta 662+89 TO Sta 667+25	6.1
E-27	ROUTE 110 Sta 620+00 TO Sta 645+00	13.3
TOTAL		19.4

## SUMMARY OF QUANTITIES

**Q-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,110,118 170,405	Var	23	102

*Ron Russak*  
LICENSED LANDSCAPE ARCHITECT

8-11-14  
PLANS APPROVAL DATE

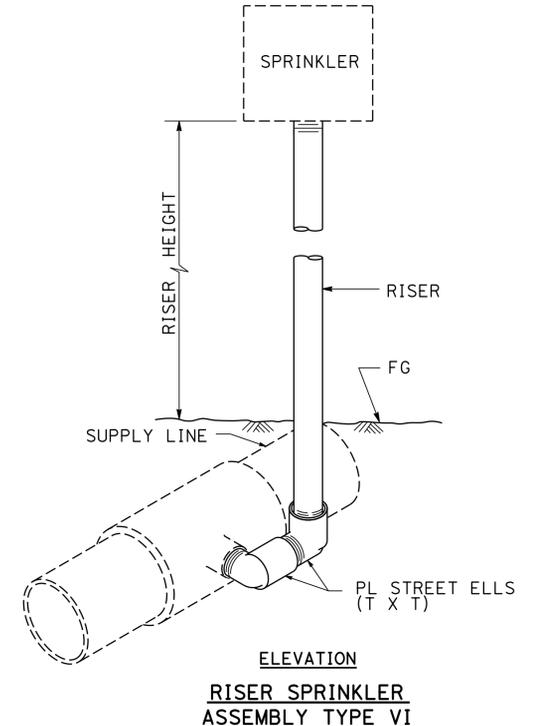
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

### IRRIGATION LEGEND

TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (psi)	PRESSURE COMPENSATING	PLUS/MINUS 5% ②				FLOW SHUTOFF DEVICE	SPRINKLER ASSEMBLY						REMARKS			
					DISCHARGE		RADIUS (ft)	WIDTH x LENGTH (ft)		TYPE	RISER		POP-UP		TREE WELL				
					GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)					MATERIAL	SIZE (IPS INCH)	HEIGHT (INCH)	TYPE			INLET CONNECTION (NPT INCH)	SPRINKLER PROTECTOR (TYPE)	HEIGHT (INCH)
A-1	GEAR DRIVEN	P	35	—	1.5	—	34	—	X	VI	—	X	3/4"	18"	—	—	—	—	④

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.



**TOTAL QUANTITIES**

DESCRIPTION	UNIT	TOTALS
SPRINKLER ASSEMBLY TYPE RISER (GEAR DRIVEN)	EA	176
PLASTIC PIPE SUPPLY LINE SCHEDULE 40	3/4 INCH	LF 2215
	1 INCH	LF 1315
	1 1/4 INCH	LF 825
	2 INCH	LF 210
CNC	LF*	3100
REMOTE CONTROL VALVE 1/2"	EA	11

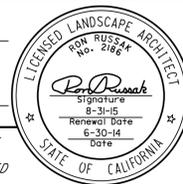
\* FOR BIDDING PURPOSES ONLY

## LANDSCAPE DETAILS LD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RON RUSSAK  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 RICH KESTER  
 GLEN LEVSTIK  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,110,170 118,405	Var	24	102

  
 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.

### IRRIGATION FACILITIES

SHEET	LOCATION	DESCRIPTION	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)		REMOTE CONTROL VALVE		PLASTIC PIPE SUPPLY LINE SCHEDULE 40		CNC Lf*	REMARKS		
			TYPE	EA	SIZE	EA	SIZE	LF				
E-1	Sta 408+50 TO 414+60	SB BALBOA Blvd ON RAMP TO EB Rte 118 ADJACENT TO SHOULDER	A-1	16			3/4"	210		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVE Y-8		
							1"	120				
							1 1/4"	70				
E-2	Sta 414+60 TO 426+50	NB BALBOA Blvd ON RAMP TO EB Rte 118 ADJACENT TO SHOULDER	A-1	19			3/4"	225		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVE A-5		
							1"	180				
							1 1/4"	100				
E-2	Sta 424+50 TO 426+50	WB Rte 118 ADJACENT TO SHOULDER	A-1	18			3/4"	225		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVE B-10		
							1"	110				
							1 1/4"	75				
E-3	Sta 426+50 TO 433+50	EB AND WB Rte 118 ADJACENT TO SHOULDER	A-1	18			3/4"	245		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVES C-4 AND C-5		
							1"	130				
							1 1/4"	110				
E-4	Sta 2465+00 TO 2466+10	NB Rte 405 ADJACENT TO DEVONSHIRE NB ON RAMP SHOULDER @ WB 118 CONNECTOR RAMP				1/2"	2	3"	100	350	CONNECT IRRIGATION REMOTE CONTROL VALVES E-6 AND E-12 AND SCH 40 PIPE TO EXISTING IRRIGATION MAINLINE	
E-5	Sta 2466+10 TO 2468+00	SB Rte 405 ADJACENT TO SHOULDER @ CHATSWORTH S+ OC				1/2"	2	3"	160	750	CONNECT IRRIGATION REMOTE CONTROL VALVES D-6 AND D-16 AND SCH 40 PIPE TO EXISTING IRRIGATION MAINLINE	
E-6	Sta 520+00 TO 521+50	WB Rte 118 TO SB 405 CONNECTOR RAMP @ SHOULDER	A-1	13				3/4"	100		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVES P-1 AND Q-7	
									1"	60		
									3/4"	480		2000
E-14	Sta 234+00 TO 245+00	NB AND SB 405 @ ROSCOE Blvd INTERCHANGE ADJACENT TO SHOULDERS	A-1	32		1/2"	7	3/4"	480		CONNECT IRRIGATION SPRINKLERS, IRRIGATION REMOTE CONTROL VALVES F-1, G-2, G-6, G-1, G-3, E-6, E-1 AND SCH 40 PIPE TO EXISTING IRRIGATION MAINLINE	
									1"	225		
									1 1/4"	120		
E-17	Sta 288+00 TO 302+50	NB AND SB Rte 405 @ NORDHOFF S+ INTERCHANGE ADJACENT TO SHOULDER	A-1	15				3/4"	180		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVES L-1 AND L-2	
									1"	120		
									1 1/4"	100		
E-18	Sta 996+00 TO 1010+00	NB AND SB 405 @ DEVONSHIRE S+ INTERCHANGE ON RAMPS ADJACENT TO SHOULDERS	A-1	16				3/4"	180		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVES C-7 AND C-8	
									1"	130		
									1 1/4"	100		
E-21	Sta 405+00 TO 418+50	NB AND SB 405 @ Rte 118 INTERCHANGE CONNECTOR RAMPS ADJACENT TO SHOULDERS	A-1	22				3/4"	270		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVES I-2 AND H-2	
									1"	180		
									1 1/4"	110		
E-22	Sta 418+50 TO 422+50	NB AND SB 405 @ SAN FERNANDO Blvd OC ADJACENT TO SHOULDERS	A-1	7				3/4"	100		CONNECT IRRIGATION SPRINKLERS AND SCH 40 PIPE TO EXISTING IRRIGATION VALVES I-5 AND H-7	
									1"	60		
									1 1/4"	40		
								2"	210			

\* FOR BIDDING PURPOSES ONLY

### IRRIGATION QUANTITIES

**IQ-1**

LAST REVISION => 12-SEP-2014  
 DATE PLOTTED => 09:42  
 TIME PLOTTED => 09:42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	25	102

<i>Cecilio Burciaga</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

C. BURCIAGA
No. E015302
Exp. 3/31/15
ELECT

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

**NOTES: (SHEETS E-1 THRU E-27)**

- NEW 120/240 V SERVICE, ELECTROLIERS, CONDUITS, PULL BOXES, AND CONDUCTORS MUST BE INSTALLED AND FUNCTIONING PRIOR TO REMOVAL OF SERIES LIGHTING SYSTEM SO THAT THERE IS NO INTERRUPTION IN THE LIGHTING SCHEDULE.
- RC ALL Exist SERIES/MULTIPLE TRANSFORMERS.
- FREEWAY LIGHTING MUST USE 235 W LED LUMINAIRE.
- ALL NEW PULL BOXES MUST BE TRAFFIC PULL BOXES.

**LEGEND: (SHEETS E-1 THRU E-27)**

- UC INSTALL PULL BOX IN UNPAVED AREA WITH TAMPER RESISTANT COVER. SEE SHEET E-54 FOR INSTALLATION DETAILS.
- IP INSTALL PULL BOX IN PAVED AREA WITH TAMPER RESISTANT COVER. SEE SHEET E-54 FOR INSTALLATION DETAILS.
- S INSTALL No. A9 SECURITY LID IN Exist No. 9 PULL BOX.
- SA INSTALL No. A9 SECURITY LID IN Exist No. 9A PULL BOX.
- RC Exist SOFFIT LIGHTING FIXTURE. INSTALL 100 W HPS LAMP AND INTEGRAL BALLAST.
- RC LUMINAIRE. INSTALL 235 W LED LUMINAIRE.

**NOTES: (THIS SHEET ONLY)**

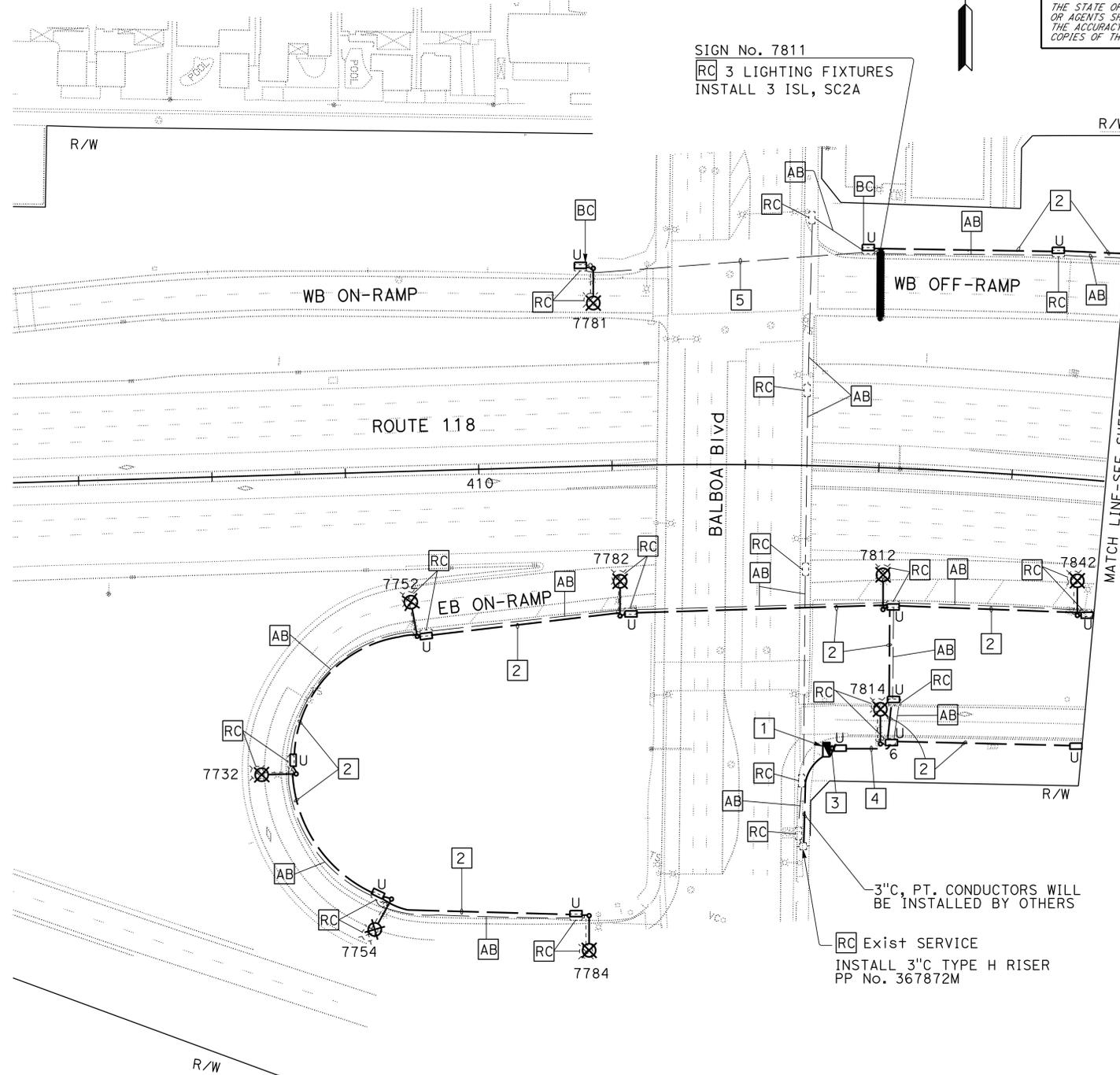
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-28.

**LEGEND: (THIS SHEET ONLY)**

- INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
1-100 A, 240 V, 2P, CB-MAIN  
2- 30 A, 240 V, 2P, CB-Ltg  
1- 15 A, 120 V, 1P, CB-PEC  
Ctid No. 07-53, 118-0-007.810M  
ADDRESS: 11390 1/2 BALBOA Blvd
- INSTALL 2" C, 2#6 (Ltg), 1#8 (G).
- INSTALL 2-3" C, 4#6 (Ltg), 1#8 (G).
- INSTALL 2" C, 4#6 (Ltg), 1#8 (G).
- Exist 2" C. RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).

**WARNING**

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.



**MODIFY LIGHTING AND SIGN ILLUMINATION**

SCALE 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-1**

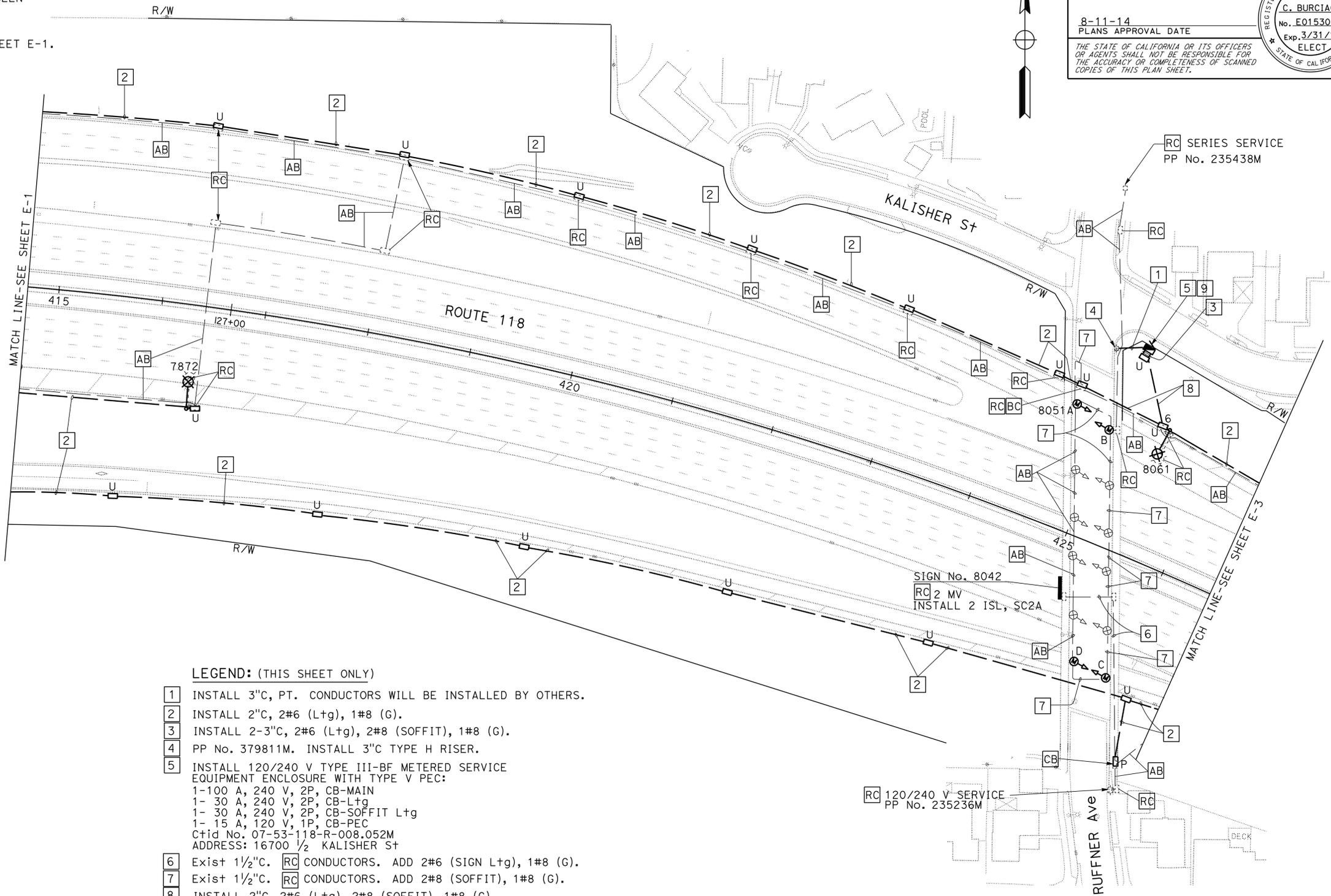
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	26	102

REGISTERED ELECT ENGINEER DATE 6/24/14  
 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.

REGISTERED PROFESSIONAL ENGINEER  
 C. BURCIAGA  
 No. E015302  
 Exp. 3/31/15  
 ELECT  
 STATE OF CALIFORNIA

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-28.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.



**LEGEND: (THIS SHEET ONLY)**

- 1 INSTALL 3"C, PT. CONDUCTORS WILL BE INSTALLED BY OTHERS.
- 2 INSTALL 2"C, 2#6 (Ltg), 1#8 (G).
- 3 INSTALL 2-3"C, 2#6 (Ltg), 2#8 (SOFFIT), 1#8 (G).
- 4 PP No. 379811M. INSTALL 3"C TYPE H RISER.
- 5 INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1- 100 A, 240 V, 2P, CB-MAIN  
 1- 30 A, 240 V, 2P, CB-Ltg  
 1- 30 A, 240 V, 2P, CB-SOFFIT Ltg  
 1- 15 A, 120 V, 1P, CB-PEC  
 Ctid No. 07-53-118-R-008.052M  
 ADDRESS: 16700 1/2 KALISHER St
- 6 Exist 1 1/2"C. RC CONDUCTORS. ADD 2#6 (SIGN Ltg), 1#8 (G).
- 7 Exist 1 1/2"C. RC CONDUCTORS. ADD 2#8 (SOFFIT), 1#8 (G).
- 8 INSTALL 2"C, 2#6 (Ltg), 2#8 (SOFFIT), 1#8 (G).
- 9 INSTALL GATE ON Exist FENCE (SEE SHEET L-4 FOR DETAILS). ENGINEER TO USE DEPARTMENT-FURNISHED PADLOCK TO SECURE GATE.

**WARNING**

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**

SCALE 1" = 50'

**E-2**

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED/DESIGNED BY CHECKED BY  
 QUINCE TRAN CECILIO BURCIAGA  
 REVISED BY DATE REVISED

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-28.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

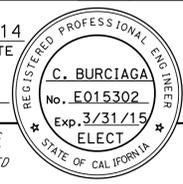
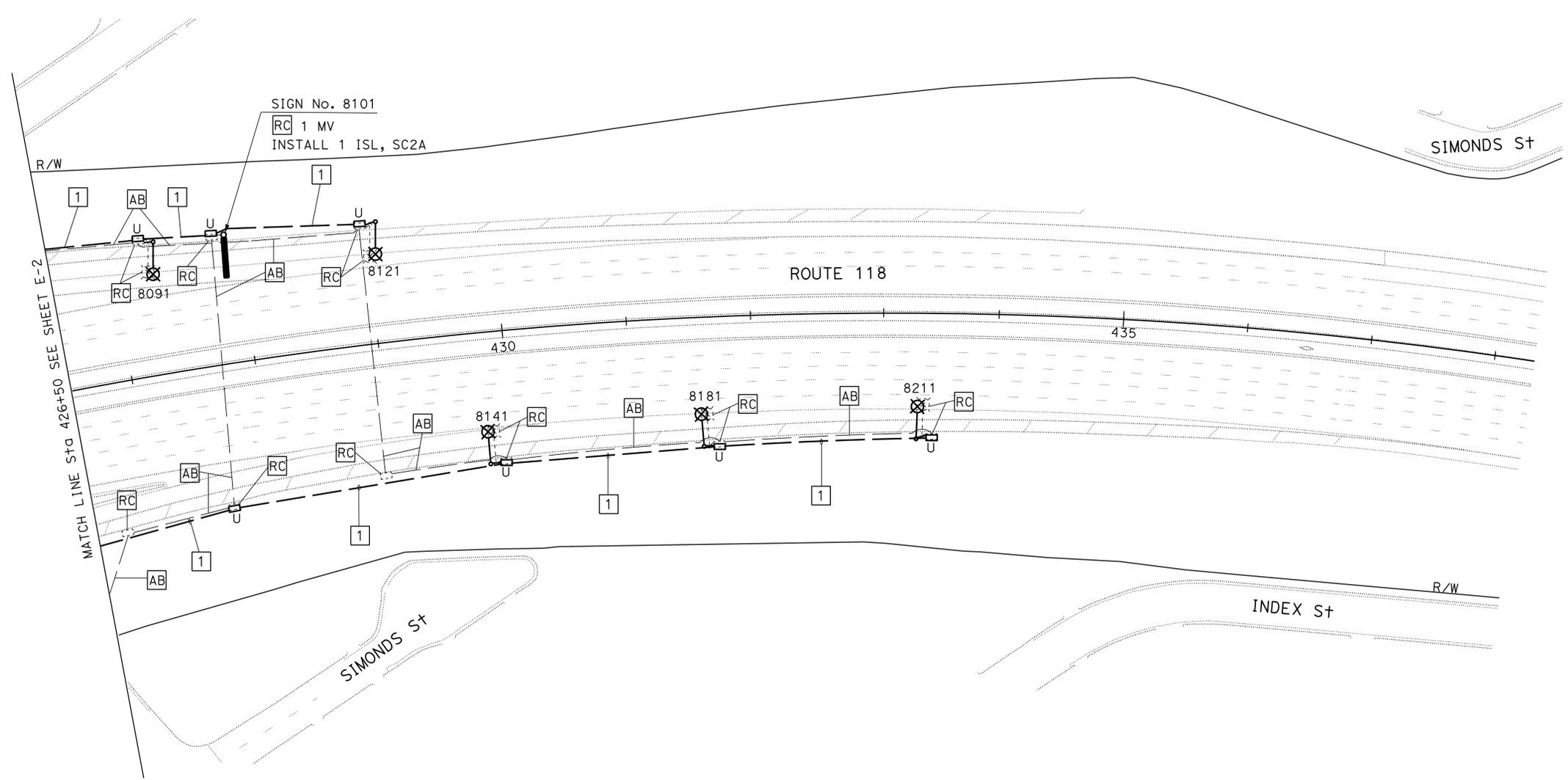
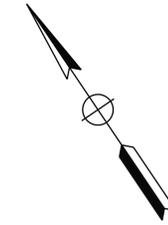
1. INSTALL 2"C, 2#6 (L+g), 1#8 (G).

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ven	101,110,170,118,405	Var	27	102

 6/24/14  
 REGISTERED ELECT 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.

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED/DESIGNED BY CHECKED BY  
 QUINCE TRAN CECILIO BURCIAGA  
 REVISED BY DATE REVISED

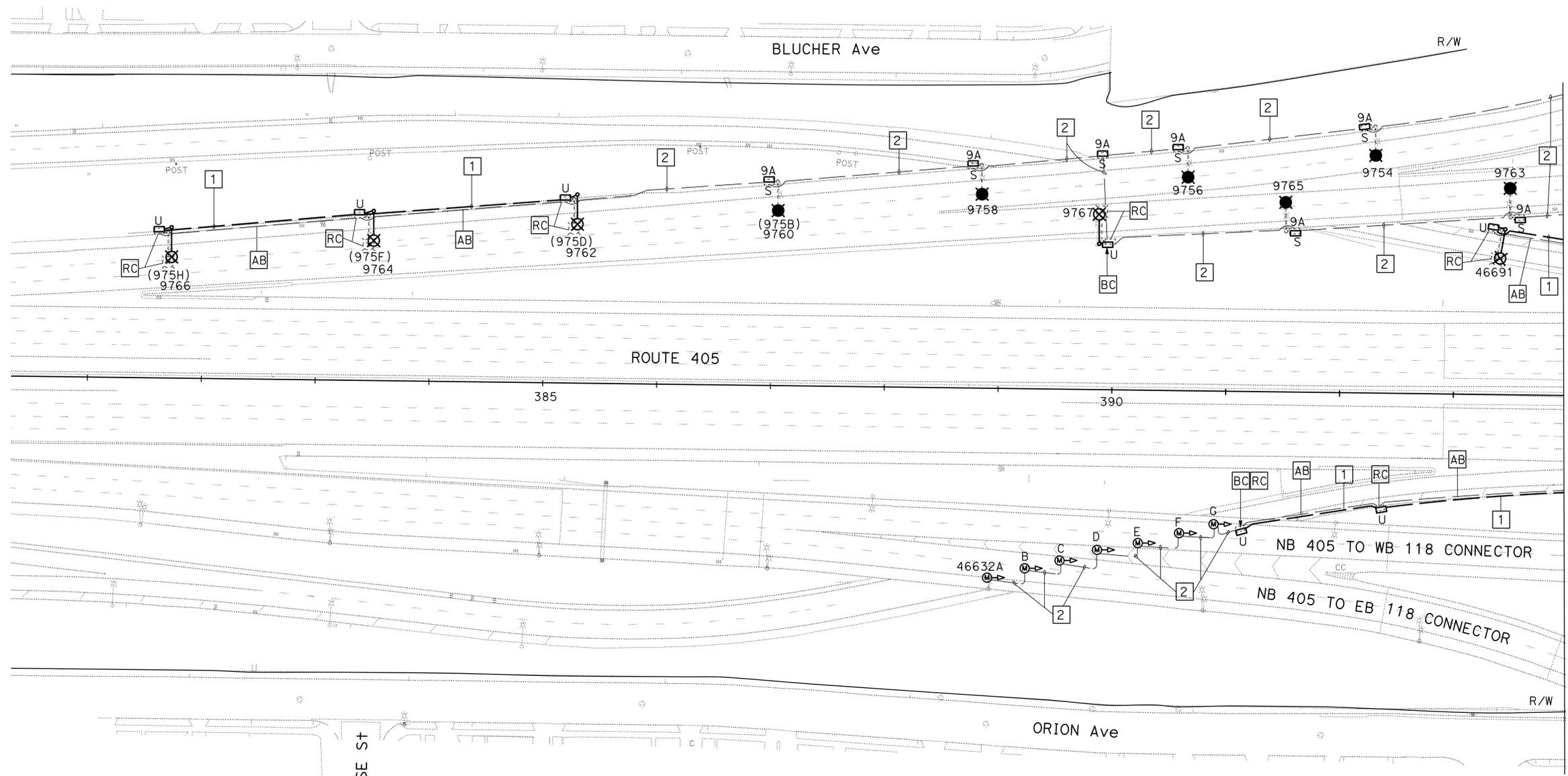
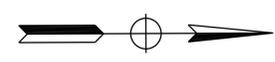
LAST REVISION    DATE PLOTTED => 12-SEP-2014    TIME PLOTTED => 09:42  
 06-22-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	28	102
REGISTERED ELECT ENGINEER			DATE	6/24/14	
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.					



- NOTES: (THIS SHEET ONLY)**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
  - FOR WIRING DIAGRAM SEE SHEET E-29.
  - FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

- LEGEND: (THIS SHEET ONLY)**
- INSTALL 2" C, 2#6 (Ltg), 1#8 (G).
  - Exist 2" C. RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).



MATCH LINE STA 393+97 SHEET E-5

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 QUINCY TRAN CECILIO BURCIAGA  
 REVISIONS BY DATE REVISIONS  
 CALCULATED-DESIGNED BY CHECKED BY  
 FUNCTIONAL SUPERVISOR YI TSAU  
 BORDER LAST REVISED 7/2/2010

USERNAME => s115484  
 DGN FILE => 73x930ua004.dgn



UNIT 1880

PROJECT NUMBER & PHASE

07130003291

LAST REVISION DATE PLOTTED => 12-SEP-2014  
 06-30-14 TIME PLOTTED => 09:42



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	30	102

REGISTERED ELECTRICAL ENGINEER DATE 6/24/14

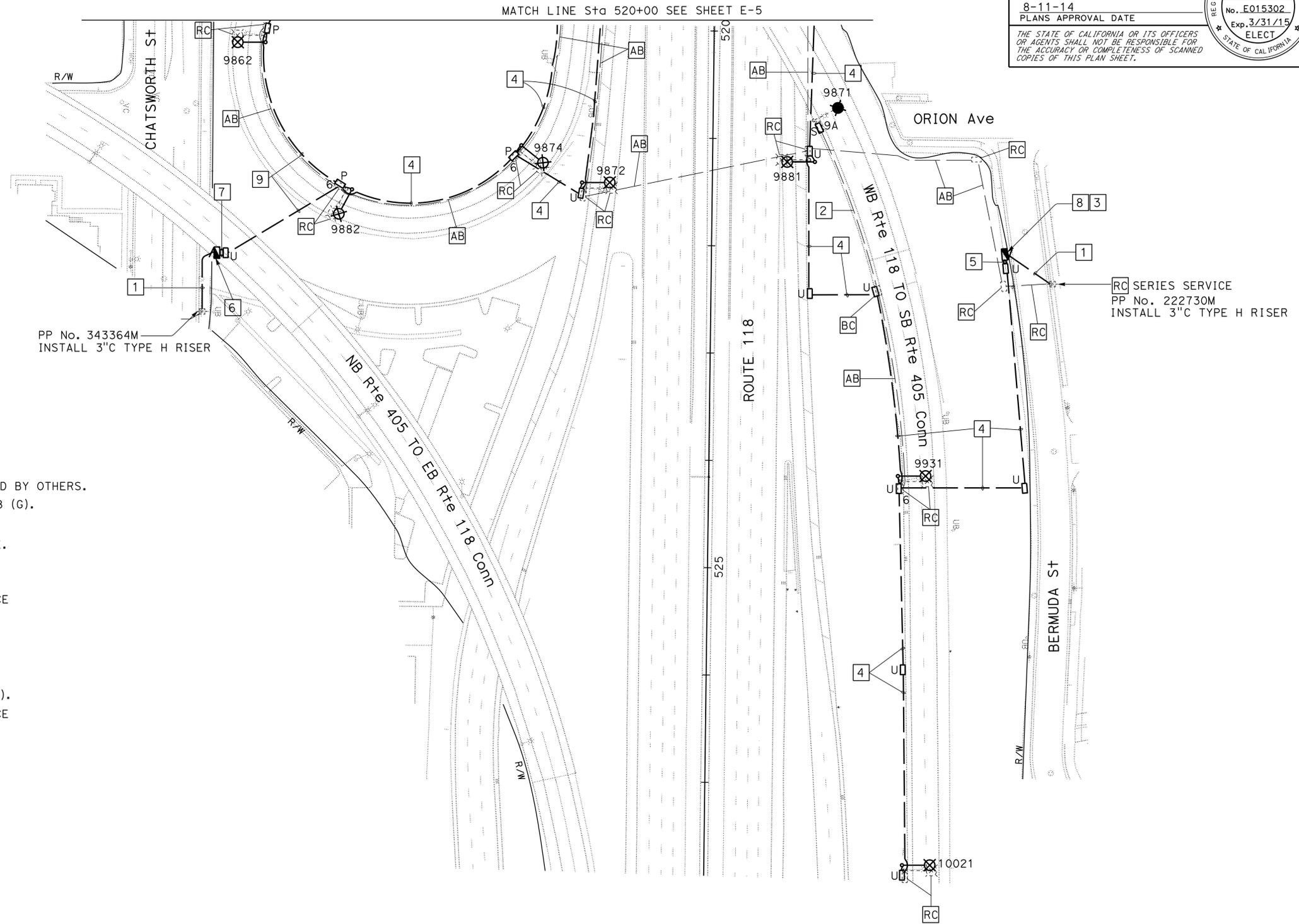
8-11-14 PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER  
C. BURCIAGA  
No. E015302  
Exp. 3/31/15  
ELECT

**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-29.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.



**LEGEND: (THIS SHEET ONLY)**

- INSTALL 3"C, PT. CONDUCTORS WILL BE INSTALLED BY OTHERS.
- EXIST 2"C. RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).
- INSTALL GATE ON EXIST FENCE (SEE SHEET L-1 FOR DETAILS). ENGINEER TO USE DEPARTMENT-FURNISHED PADLOCK TO SECURE GATE.
- INSTALL 2"C, 2#6 (Ltg), 1#8 (G).
- INSTALL 2-3"C, 2#6 (Ltg), 1#8 (G).
- INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
100 A, 240 V, 2P, CB-MAIN  
1-30 A, 240 V, 2P, CB-Ltg  
1-30 A, 240 V, 2P, CB-SOFFIT Ltg  
1-15 A, 120 V, 1P, CB-PEC  
Ctid No. 07-53-118-R-009.832M  
ADDRESS: 15529 1/2 CHATSWORTH ST
- INSTALL 2-3"C, 2#6 (Ltg), 2#6 (SOFFIT), 1#8 (G).
- INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
100 A, 240 V, 2P, CB-MAIN  
1-30 A, 240 V, 2P, CB-Ltg  
1-15 A, 120 V, 1P, CB-PEC  
Ctid No. 07-53-118-R-009.901M  
ADDRESS: 15551 1/2 BERMUDA ST
- INSTALL 2"C, 2#6 (Ltg), 2#6 (SOFFIT), 1#8 (G).

**WARNING**

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**

SCALE 1" = 50'

**E-6**

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
FUNCTIONAL SUPERVISOR YI TSAU  
QUINCIE TRAN CECILIO BURCIAGA  
REVISOR DATE  
CALCULATED/DESIGNED BY CHECKED BY

DATE PLOTTED => 12-SEP-2014  
TIME PLOTTED => 09:42  
LAST REVISION 06-30-14

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-29.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

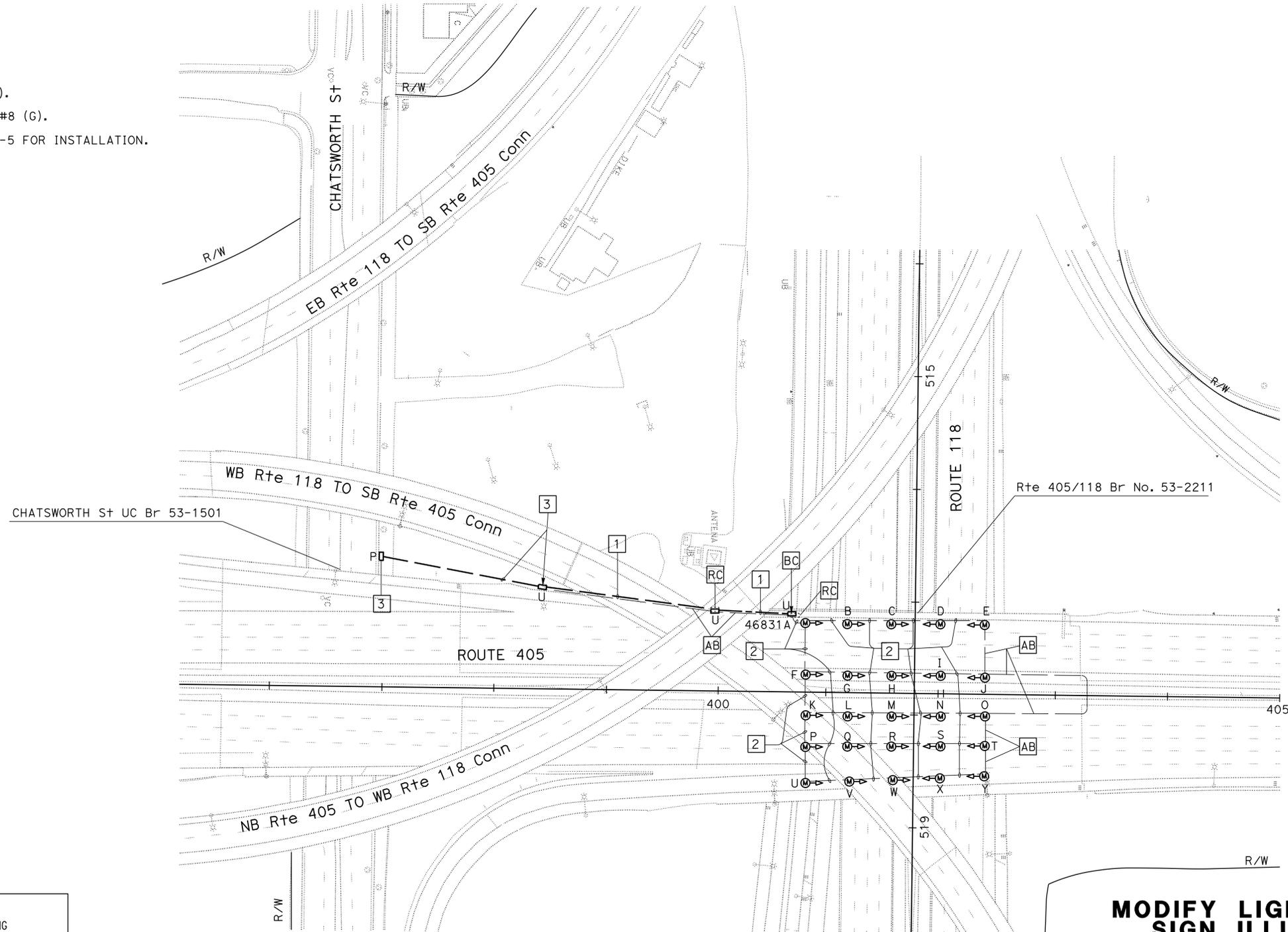
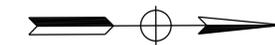
**LEGEND: (THIS SHEET ONLY)**

- 1 INSTALL 2"C, 2#6 (SOFFIT), 1#8 (G).
- 2 RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).
- 3 FOR REFERENCE ONLY, SEE SHEET E-5 FOR INSTALLATION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	31	102

REGISTERED ELECT ENGINEER DATE 6/24/14  
 C. BURCIAGA  
 No. E015302  
 Exp. 3/31/15  
 ELECT  
 STATE OF CALIFORNIA

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.



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED/DESIGNED BY CHECKED BY  
 QUINCIE TRAN CECILIO BURCIAGA  
 REVISED BY DATE REVISED

**NOTES: (THIS SHEET ONLY)**

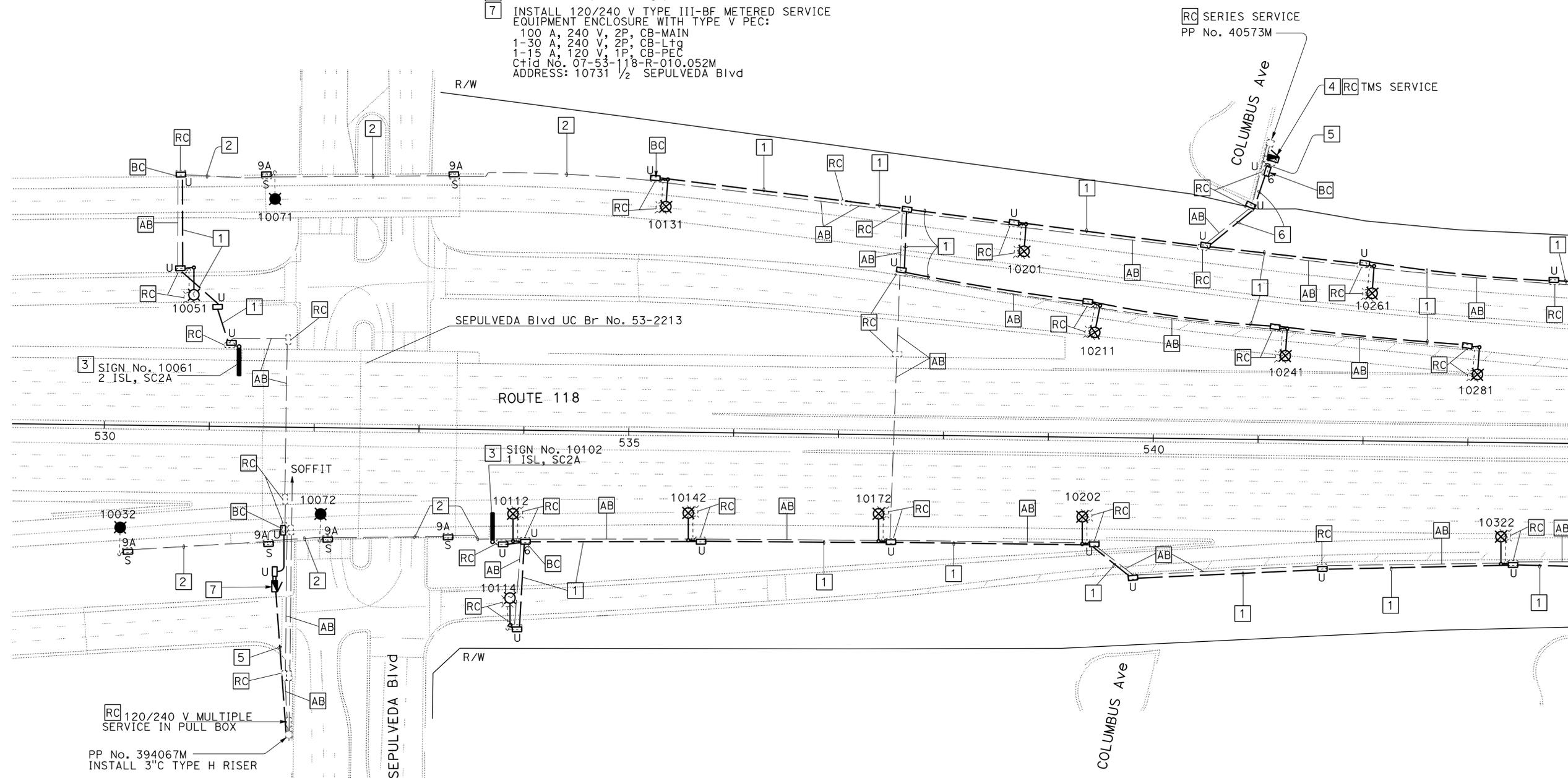
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-30.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- 1 INSTALL 2"C, 2#6 (Ltg), 1#8 (G).
- 2 Exist 2"C. RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).
- 3 RC Exist FLORESTCENT Ltg FIXTURE.
- 4 INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC ON Exist FOUNDATION:  
100 A, 240 V, 2P, CB-MAIN  
1-30 A, 240 V, 2P, CB-Ltg  
1-30 A, 240 V, 2P, CB-SOFFIT Ltg  
1-15 A, 120 V, 1P, CB-PEC  
1-30 A, 120 V, 1P, CB-TMS  
Ctid No. 07-53-118-R-010.231M  
ADDRESS: 10816 1/2 COLUMBUS Ave
- 5 Exist 2-2"C, 2#10 (TMS). ADD 4#6 (Ltg), 1#8 (G).
- 6 INSTALL 2"C, 4#6 (Ltg), 1#8 (G).
- 7 INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
100 A, 240 V, 2P, CB-MAIN  
1-30 A, 240 V, 2P, CB-Ltg  
1-15 A, 120 V, 1P, CB-PEC  
Ctid No. 07-53-118-R-010.052M  
ADDRESS: 10731 1/2 SEPULVEDA Blvd

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	32	102

REGISTERED ELECT ENGINEER DATE 6/24/14  
C. BURCIAGA No. E015302 Exp. 3/31/15  
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.



RC 120/240 V MULTIPLE SERVICE IN PULL BOX  
PP No. 394067M  
INSTALL 3"C TYPE H RISER

**WARNING**  
BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
SCALE 1" = 50'

**E-8**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - **Traffic DESIGN**  
FUNCTIONAL SUPERVISOR: YI TSAU  
QUINCE TRAN: CECILIO BURCIAGA  
REVISOR: [Blank]  
DATE REVISOR: [Blank]

MATCH LINE Sta 544+00 SHEET E-9  
DATE PLOTTED => 12-SEP-2014  
TIME PLOTTED => 09:42





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	35	102

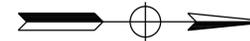
  

<i>C. Burciaga</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	
C. BURCIAGA	
No. E015302	
Exp. 3/31/15	
ELECT	
STATE OF CALIFORNIA	

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

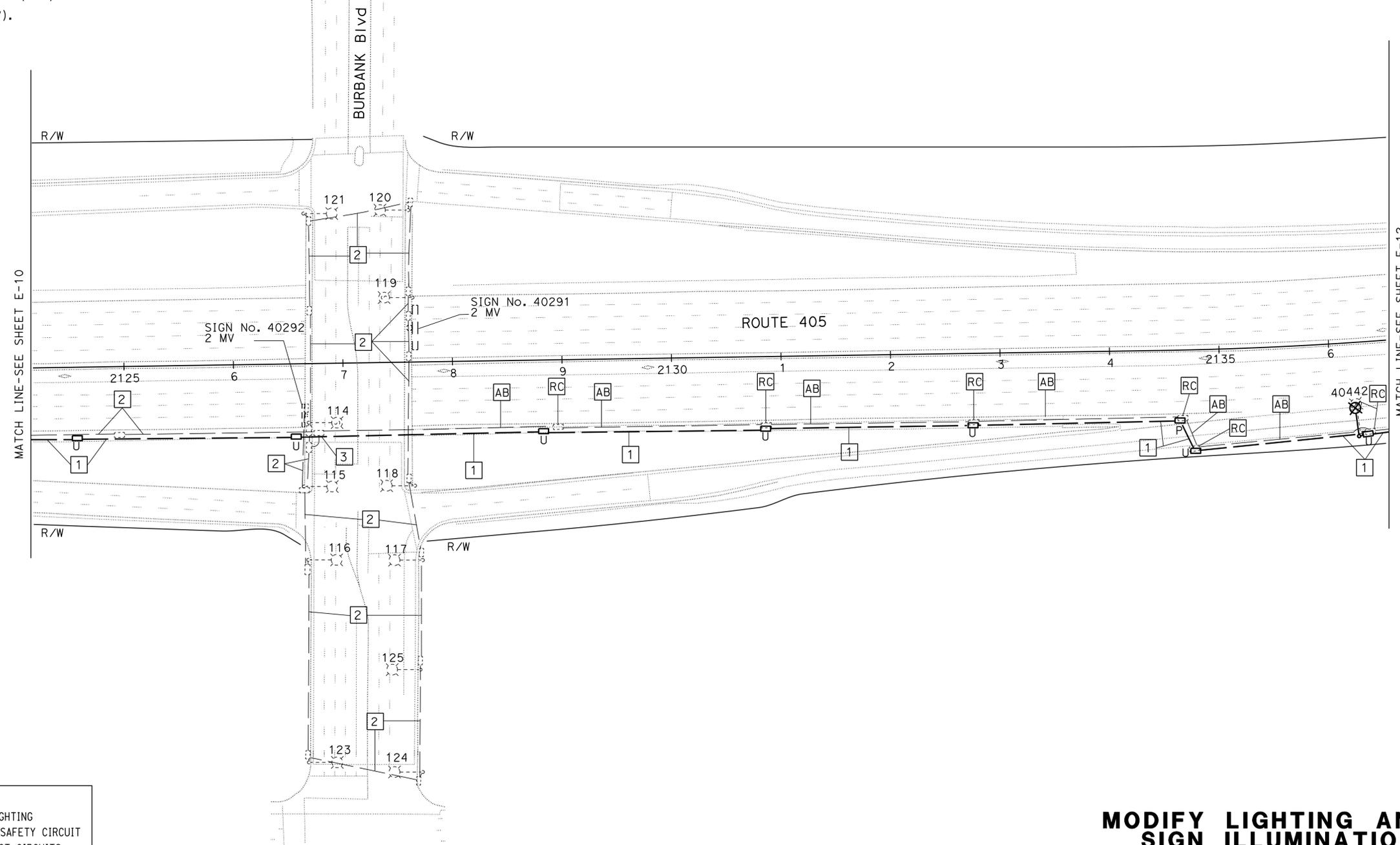


**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-31.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- INSTALL 2" C, 2#4 (L+g), 1#8 (G).
- EXIST 2" C, #8 SERIES CIRCUIT CABLE (5kV).
- SC #8 SERIES CIRCUIT CABLE (5kV).



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-11**

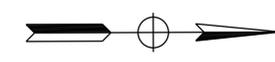
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CALCULATED-DRAWN BY: CECILIO BURCIAGA  
 CHECKED BY:  
 REVISED BY: DATE REVISED:



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	37	102

REGISTERED ELECT ENGINEER DATE 6/24/14  
 REGISTERED PROFESSIONAL ENGINEER  
 JESSE RUELAS  
 No. E015604  
 Exp. 2/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA

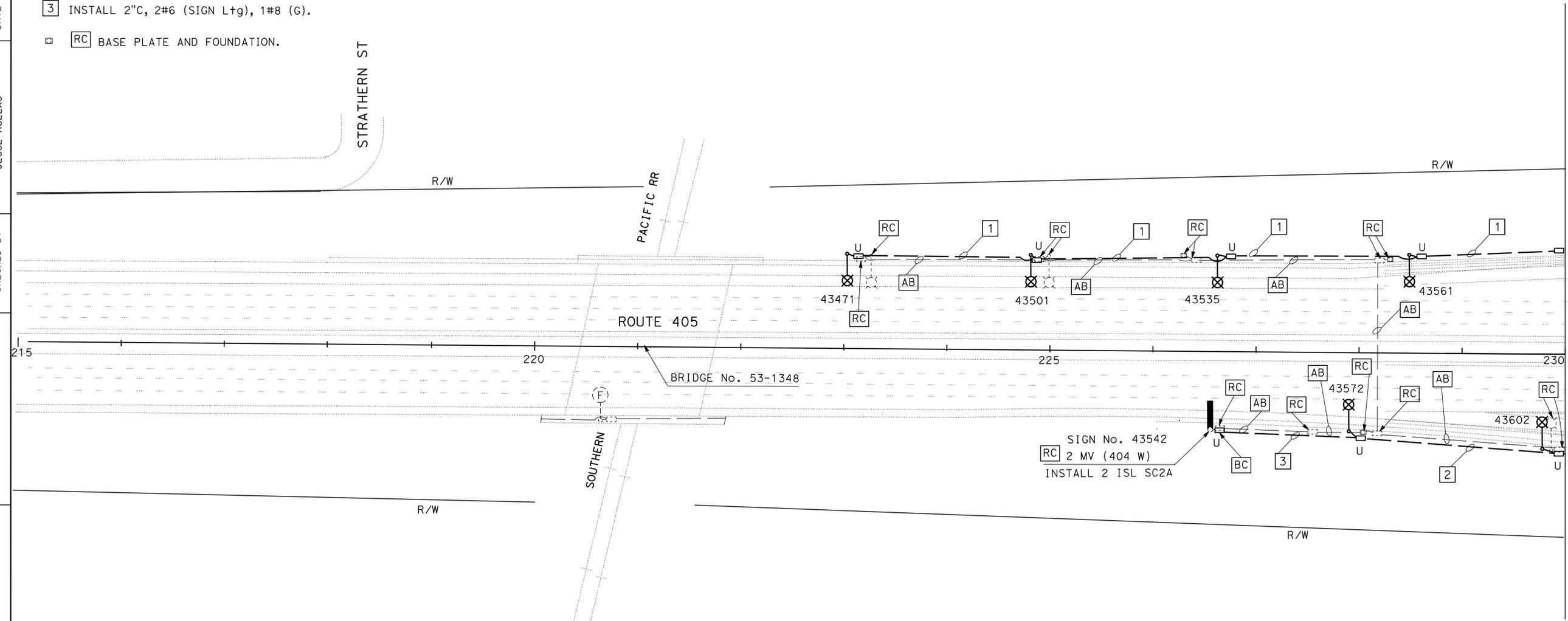
8-11-14  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- NOTES: (THIS SHEET ONLY)**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
  - FOR WIRING DIAGRAM SEE SHEET E-32.
  - FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

- LEGEND: (THIS SHEET ONLY)**
- 1 INSTALL 2" C, 2#6 (Fwy Ltg), 1#8 (G).
  - 2 INSTALL 2" C, 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
  - 3 INSTALL 2" C, 2#6 (SIGN Ltg), 1#8 (G).
  - RC BASE PLATE AND FOUNDATION.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED-DESIGNED BY CHECKED BY  
 KARINE PARTAMIAN JESSE RUELAS  
 REVISED BY DATE REVISED



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

SIGN No. 43542  
 RC 2 MV (404 W)  
 INSTALL 2 ISL SC2A

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-13**

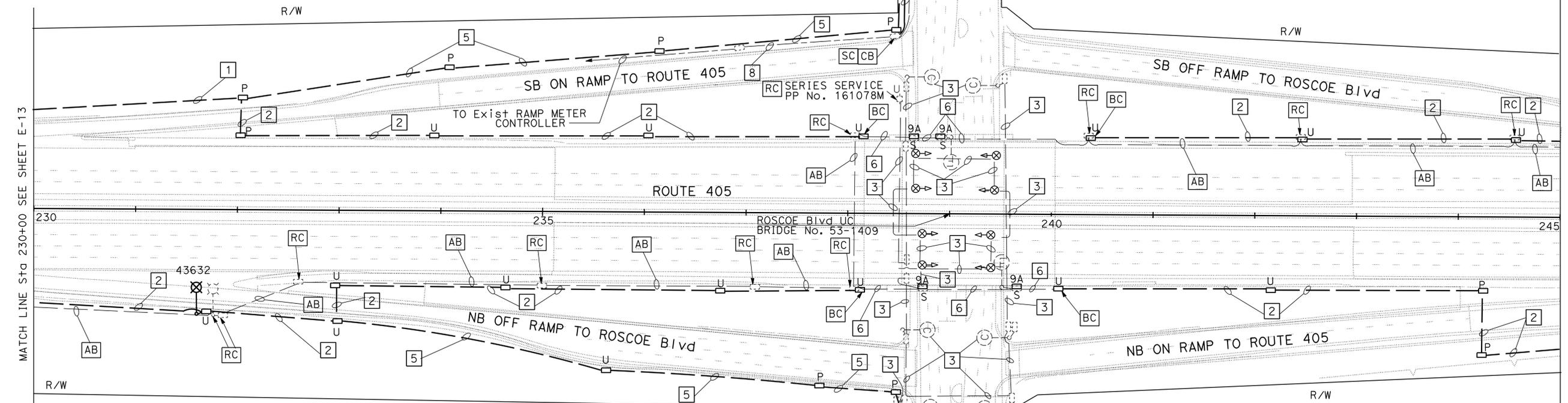
LAST REVISION DATE PLOTTED => 12-SEP-2014  
 06-09-14 TIME PLOTTED => 09:43

**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR INSTALLATION OF CITY CIRCUIT SEE SHEET E-42.
- FOR WIRING DIAGRAM SEE SHEET E-32.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- INSTALL 2" C, 2#6 (Fwy Ltg), 1#8 (G).
- INSTALL 2" C, 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- FOR REFERENCE ONLY, SEE SHEET E-42.
- INSTALL 2-2" C, 2#8 (RM), 2#12 (IRRIGATION), 2#10 (TDC), 4#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- INSTALL 2" C, 4#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- EXIST 1 1/2" C, ADD 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).



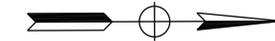
- INSTALL 120/240 V TYPE III BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1-100 A, 240 V, 2P, CB-MAIN  
 2-30 A, 240 V, 2P, CB-Fwy Ltg, SIGN Ltg  
 1-15 A, 120 V, 1P, CB-PEC  
 1-20 A, 120 V, 1P, CB-IRRIGATION  
 1-15 A, 120 V, 1P, CB-TELEPHONE  
 1-30 A, 120 V, 1P, CB-RAMP METER  
 Ctid No. 07-53-405-R-043.764M  
 ADDRESS: 15640 1/2 ROSCOE Blvd
- EXIST 1 1/2" C, 2#14, 2#8.
- INSTALL 120/240 V TYPE III BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1-100 A, 240 V, 2P, CB-MAIN  
 2-30 A, 240 V, 2P, CB-Fwy Ltg, SIGN Ltg  
 1-15 A, 120 V, 1P, CB-PEC  
 1-20 A, 120 V, 1P, CB-IRRIGATION  
 1-15 A, 120 V, 1P, CB-TELEPHONE  
 1-30 A, 120 V, 1P, CB-RAMP METER  
 Ctid No. 0753-405-R-043.763M  
 ADDRESS: 15614 1/2 ROSCOE Blvd

**RC** EXISTING 120 V UNMETERED SERVICE EQUIPMENT ENCLOSURE WITH:  
 1-20 A, 120 V, 1P, CB-IRRIGATION  
 1-15 A, 120 V, 1P, CB-TELEPHONE  
 1-40 A, 120 V, 1P, CB-RAMP METER

INSTALL 3" C TYPE H RISER **RC** EXIST SERVICE PP No. 161076M  
 3" C, PT, CONDUCTORS WILL BE INSTALLED BY OTHERS

**RC** 120 V UNMETERED SERVICE EQUIPMENT ENCLOSURE WITH:  
 1-20 A, 120 V, 1P, CB-IRRIGATION  
 1-15 A, 120 V, 1P, CB-TELEPHONE  
 1-40 A, 120 V, 1P, CB-RAMP METER

INSTALL 3" C TYPE H RISER PP No. 136801M  
**RC** EXIST SERVICE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	38	102

8-11-14  
 PLANS APPROVAL DATE

6/24/14  
 REGISTERED ELECT ENGINEER DATE

JESSE RUELAS  
 No. E015604  
 Exp. 12/31/15  
 ELECT

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.

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-14**

REVISIONS:  
 06-30-14  
 DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43

MATCH LINE Sta 245+00 SEE SHEET E-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	39	102

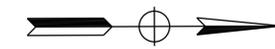
  

<i>Jesse Ruelas</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	JESSE RUELAS
No. E015604	Exp. 12/31/15
ELECT	STATE OF CALIFORNIA

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

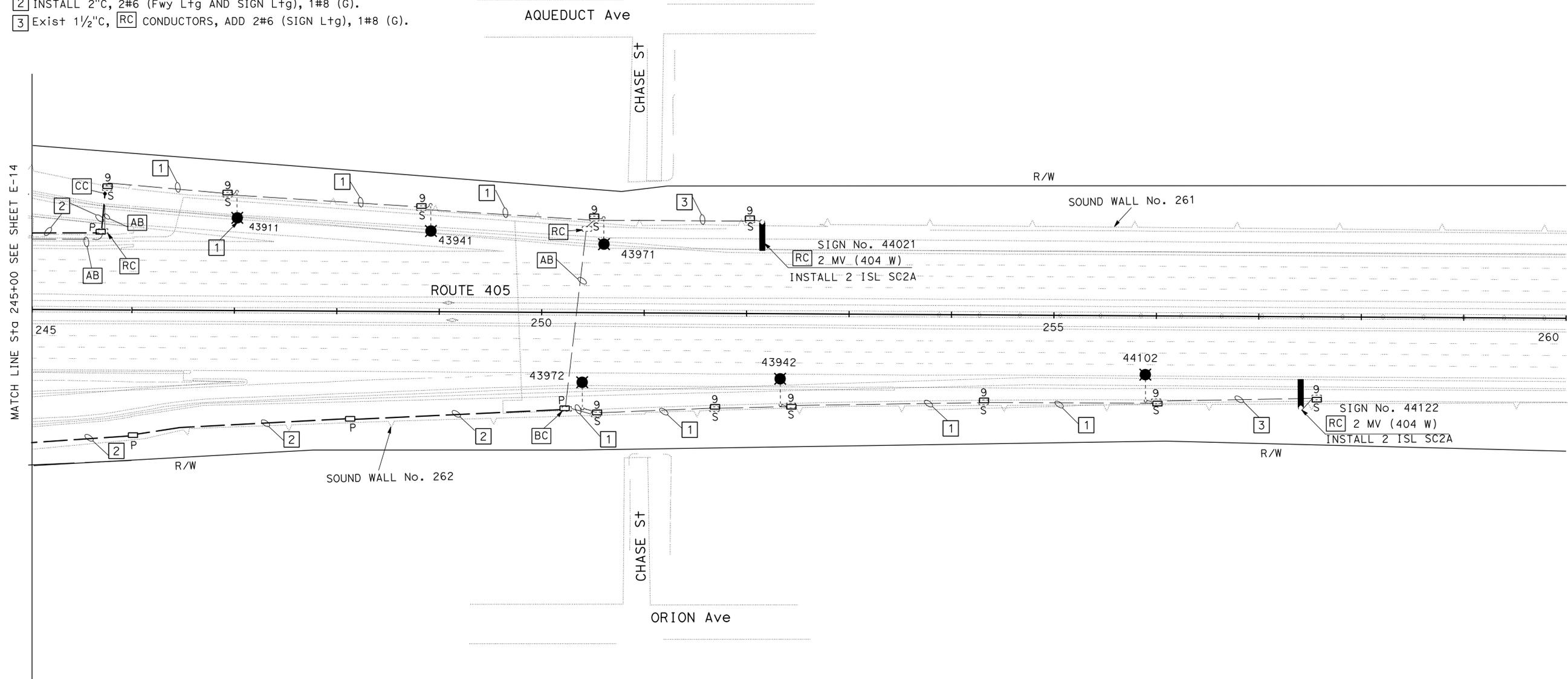


**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-32.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- 1 Exist 1 1/2" C, RC CONDUCTORS, ADD 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 2 INSTALL 2" C, 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 3 Exist 1 1/2" C, RC CONDUCTORS, ADD 2#6 (SIGN Ltg), 1#8 (G).



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-15**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CHECKED BY: [ ]  
 DESIGNED BY: [ ]  
 KARINE PARTAMIAN  
 JESSE RUELAS  
 REVISED BY: [ ]  
 DATE REVISED: [ ]

LAST REVISION: 06-30-14      DATE PLOTTED => 12-SEP-2014      TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	40	102

<i>Jesse Ruelas</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	JESSE RUELAS
No. E015604	
Exp. 12/31/15	
ELECT	

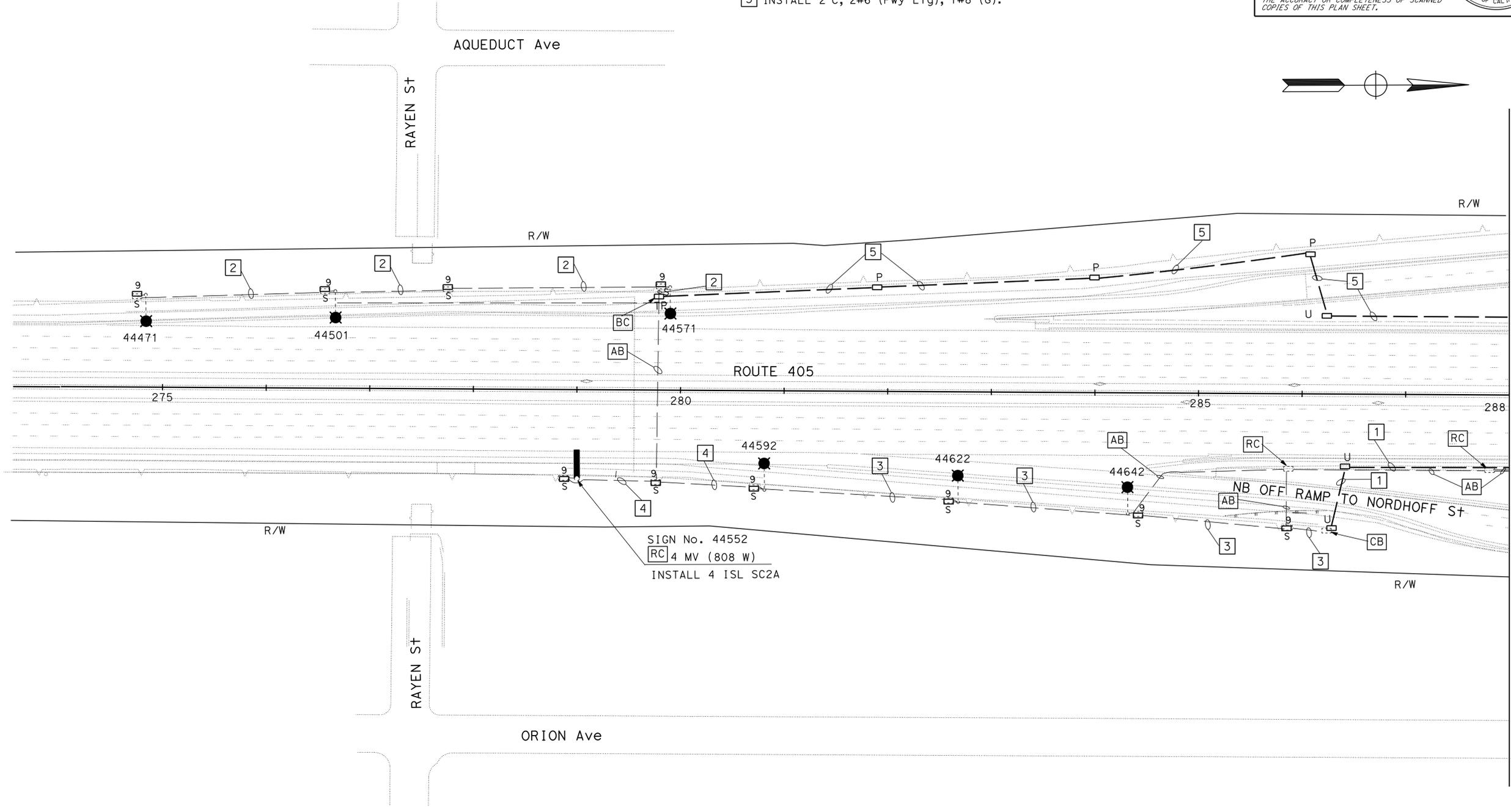
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-33.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- INSTALL 2"C, 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- EXIST 1 1/2"C, RC CONDUCTORS, ADD 2#6 (Fwy Ltg), 1#8 (G).
- EXIST 1 1/2"C, RC CONDUCTORS, ADD 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- EXIST 1 1/2"C, RC CONDUCTORS, ADD 2#6 (SIGN Ltg), 1#8 (G).
- INSTALL 2"C, 2#6 (Fwy Ltg), 1#8 (G).



SIGN No. 44552  
 RC 4 MV (808 W)  
 INSTALL 4 ISL SC2A

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

**E-16**

APPROVED FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: YI TSAU  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 REVISIONS: KARINE PARTAMIAN, JESSE RUELAS

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION: 06-30-14

MATCH LINE Sta 288+00 SEE SHEET E-17

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-33.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	41	102

<i>Jesse Ruelas</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	PLANS APPROVAL DATE

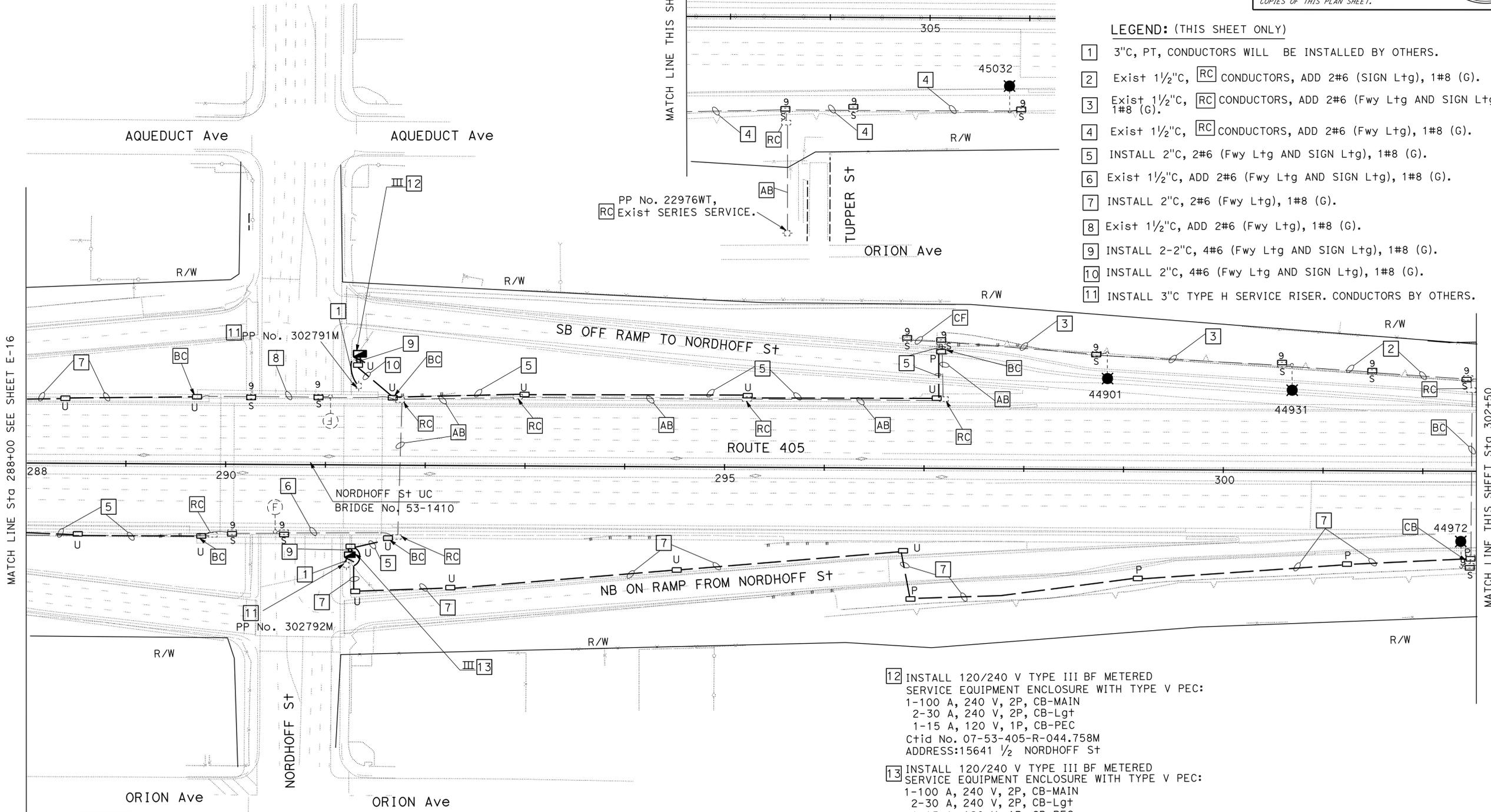
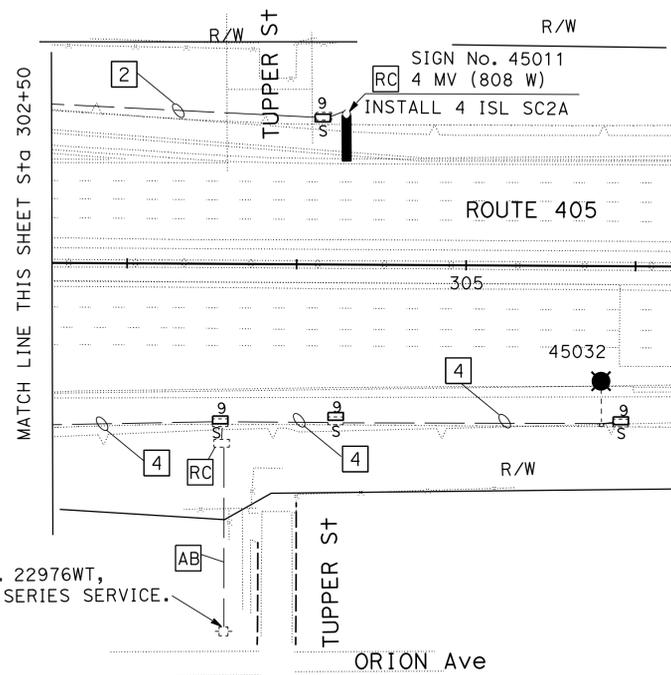
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
---

REGISTERED PROFESSIONAL ENGINEER	JESSE RUELAS
No. E015604	Exp. 12/31/15
ELECT	

**LEGEND: (THIS SHEET ONLY)**

- 1 3"C, PT, CONDUCTORS WILL BE INSTALLED BY OTHERS.
- 2 Exist 1 1/2"C, RC CONDUCTORS, ADD 2#6 (SIGN Ltg), 1#8 (G).
- 3 Exist 1 1/2"C, RC CONDUCTORS, ADD 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 4 Exist 1 1/2"C, RC CONDUCTORS, ADD 2#6 (Fwy Ltg), 1#8 (G).
- 5 INSTALL 2"C, 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 6 Exist 1 1/2"C, ADD 2#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 7 INSTALL 2"C, 2#6 (Fwy Ltg), 1#8 (G).
- 8 Exist 1 1/2"C, ADD 2#6 (Fwy Ltg), 1#8 (G).
- 9 INSTALL 2-2"C, 4#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 10 INSTALL 2"C, 4#6 (Fwy Ltg AND SIGN Ltg), 1#8 (G).
- 11 INSTALL 3"C TYPE H SERVICE RISER. CONDUCTORS BY OTHERS.



- 12 INSTALL 120/240 V TYPE III BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1-100 A, 240 V, 2P, CB-MAIN  
 2-30 A, 240 V, 2P, CB-Lgt  
 1-15 A, 120 V, 1P, CB-PEC  
 Ctid No. 07-53-405-R-044.758M  
 ADDRESS: 15641 1/2 NORDHOFF St
- 13 INSTALL 120/240 V TYPE III BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1-100 A, 240 V, 2P, CB-MAIN  
 2-30 A, 240 V, 2P, CB-Lgt  
 1-15 A, 120 V, 1P, CB-PEC  
 Ctid No. 07-53-405-R-044.759M  
 ADDRESS: 15613 1/2 NORDHOFF St

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'  
**E-17**

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CHECKED BY: [ ]  
 DESIGNED BY: [ ]  
 CALCULATED BY: [ ]  
 REVISIONS: [ ]  
 REVISED BY: KARINE PARTAMIAN  
 DATE REVISED: [ ]  
 DESIGNED BY: JESSE RUELAS

LAST REVISION: 06-30-14      DATE PLOTTED => 12-SEP-2014      TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	42	102

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.

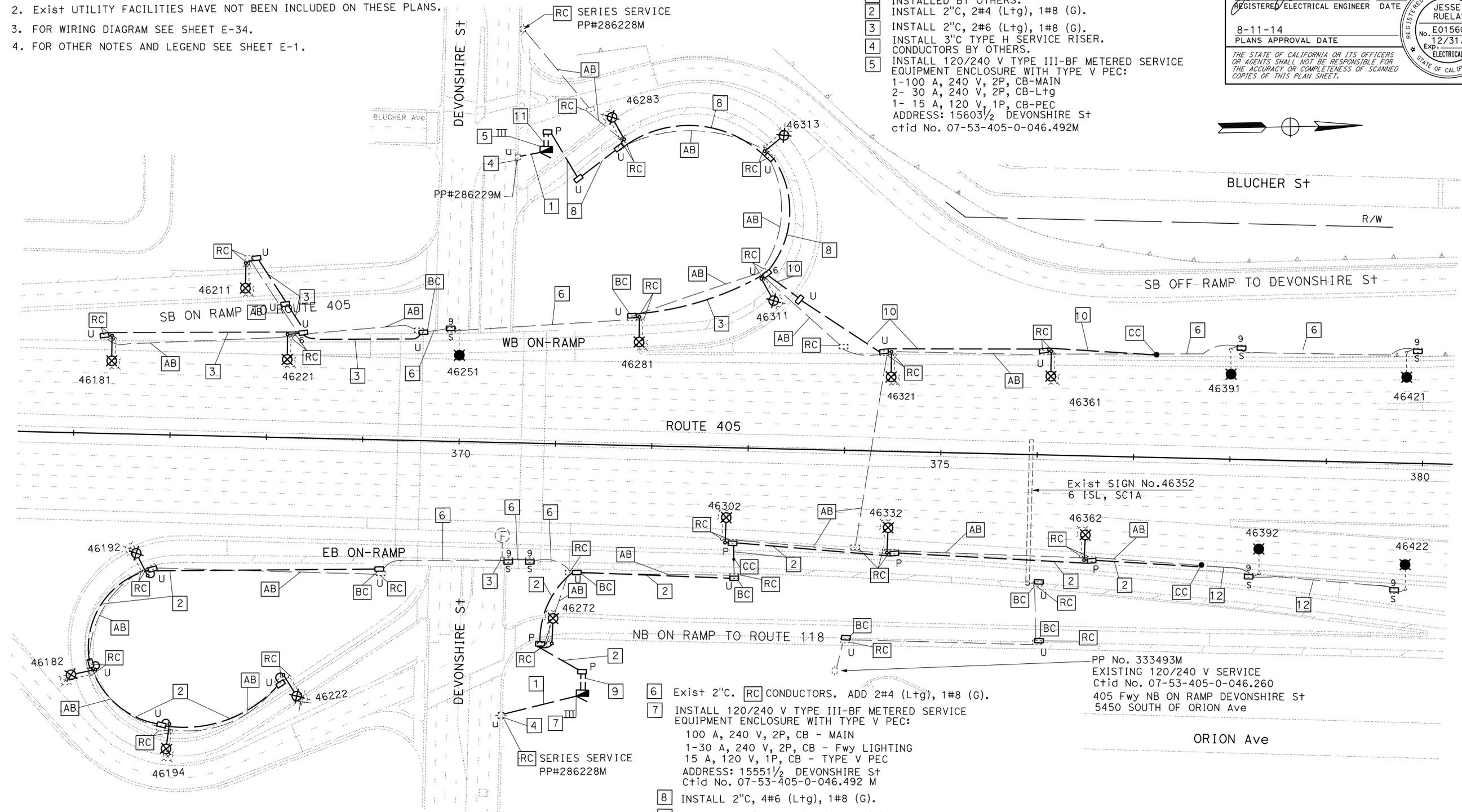
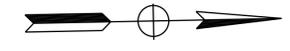
REGISTERED ELECTRICAL ENGINEER  
 JESSE RUELAS  
 No. E015604  
 12/31/15  
 EXP. ELECTRICAL  
 STATE OF CALIFORNIA

**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-34.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- INSTALL 3" C, PT. CONDUCTORS WILL BE INSTALLED BY OTHERS.
- INSTALL 2" C, 2#4 (Ltg), 1#8 (G).
- INSTALL 2" C, 2#6 (Ltg), 1#8 (G).
- INSTALL 3" C TYPE H SERVICE RISER. CONDUCTORS BY OTHERS.
- INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1- 100 A, 240 V, 2P, CB-MAIN  
 2- 30 A, 240 V, 2P, CB-Ltg  
 1- 15 A, 120 V, 1P, CB-PEC  
 ADDRESS: 15603 1/2 DEVONSHIRE ST  
 ctid No. 07-53-405-0-046.492M



- Exist 2" C. RC CONDUCTORS. ADD 2#4 (Ltg), 1#8 (G).
- INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 100 A, 240 V, 2P, CB - MAIN  
 1-30 A, 240 V, 2P, CB - Fwy LIGHTING  
 15 A, 120 V, 1P, CB - TYPE V PEC  
 ADDRESS: 15551 1/2 DEVONSHIRE ST  
 CtId No. 07-53-405-0-046.492 M
- INSTALL 2" C, 4#6 (Ltg), 1#8 (G).
- INSTALL 2-2" C, 2#4 (Ltg), 1#8 (G).
- INSTALL 2" C, 2#6 (Ltg), 1#8 (G).
- INSTALL 2-3" C, 4#6 (Ltg), 1#8 (G).
- INSTALL 2" C, 2#4 (Ltg), 1#8 (G).

PP No. 333493M  
 EXISTING 120/240 V SERVICE  
 CtId No. 07-53-405-0-046.260  
 405 Fwy NB ON RAMP DEVONSHIRE ST  
 5450 SOUTH OF ORION Ave

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

**E-18**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Hossain Kian  
 Jesse Ruelas  
 Yi Tsau  
 Traffic Design

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION 06-30-14



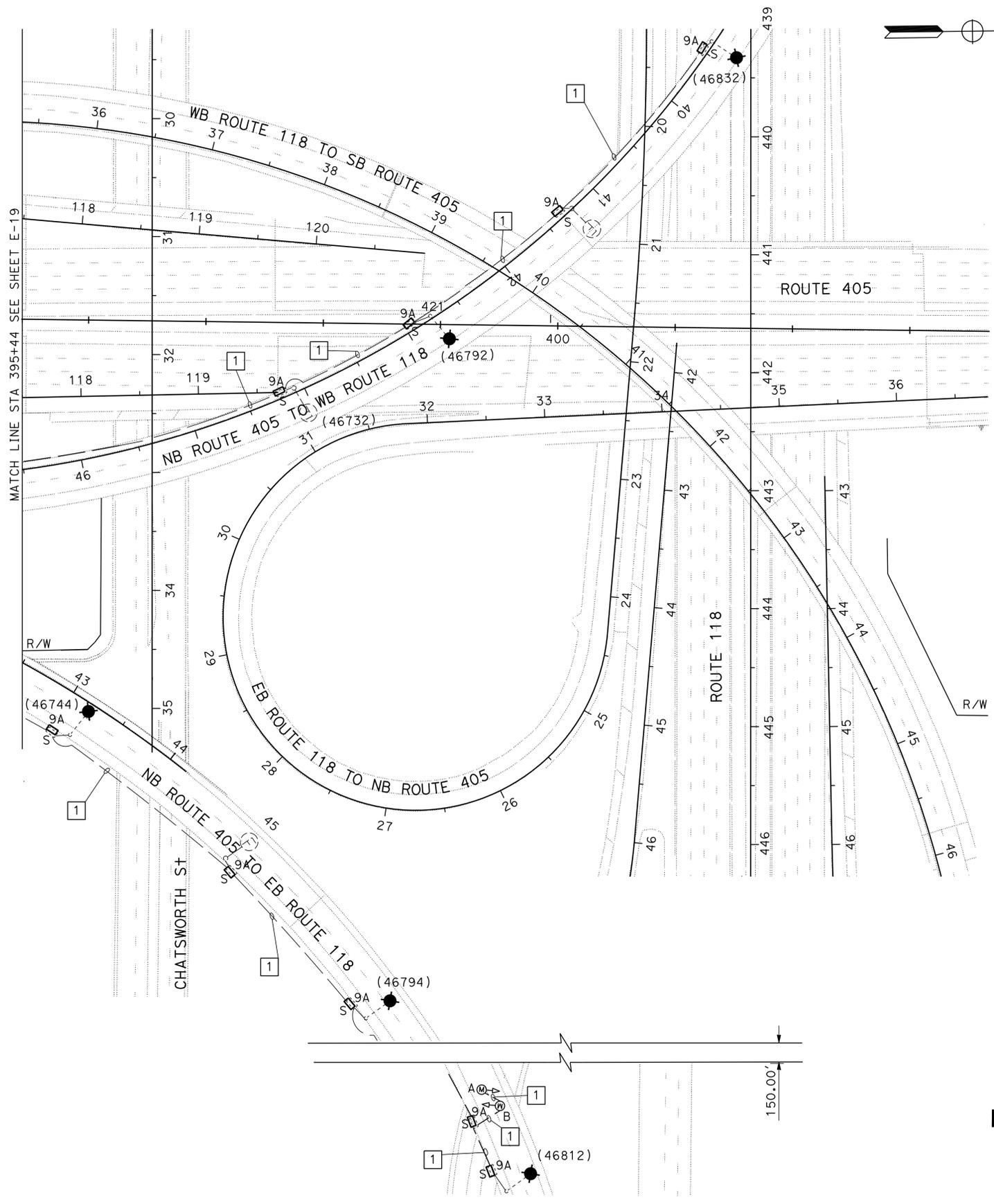
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Stantec** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 HOSSAIN KIAN  
 JESSE RUELAS  
 REVISED BY: [blank]  
 DATE REVISED: [blank]

**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-35.
- FOR OTHER NOTES AND LEGEND SEE E-1.

**LEGEND: (THIS SHEET ONLY)**

1 Exist 2"C. RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	44	102

REGISTERED ELECTRICAL ENGINEER DATE: 6/24/14  
 JESSE RUELAS  
 No. E015604  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 8-11-14

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.

**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1"=50'

**E-20**

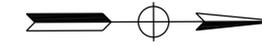
DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION 06-30-14

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-36.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- 1 Exist 2"C, 2#6 (Ltg), 1#8 (G).
- 2 INSTALL 2"C, 2#4 (Ltg), 1#8 (G).
- 3 INSTALL 2"C, 2#6 (Ltg), 1#8 (G).
- 4 EXISTING 120 V SERVICE  
PP No. 286270M  
ADDRESS: 405 Fwy CORNER OF TULSA Street  
Ctid No. 07-53-405-0-047.005M
- 5 Exist 2"C, RC 2#8 (5KV), 1#6 (G),  
ADD 2#6 (Ltg), 1#8 (G).
- 6 Exist 2"C, RC 2#8 (5KV), 1#6 (G),  
ADD 2#4 (Ltg), 1#8 (G).



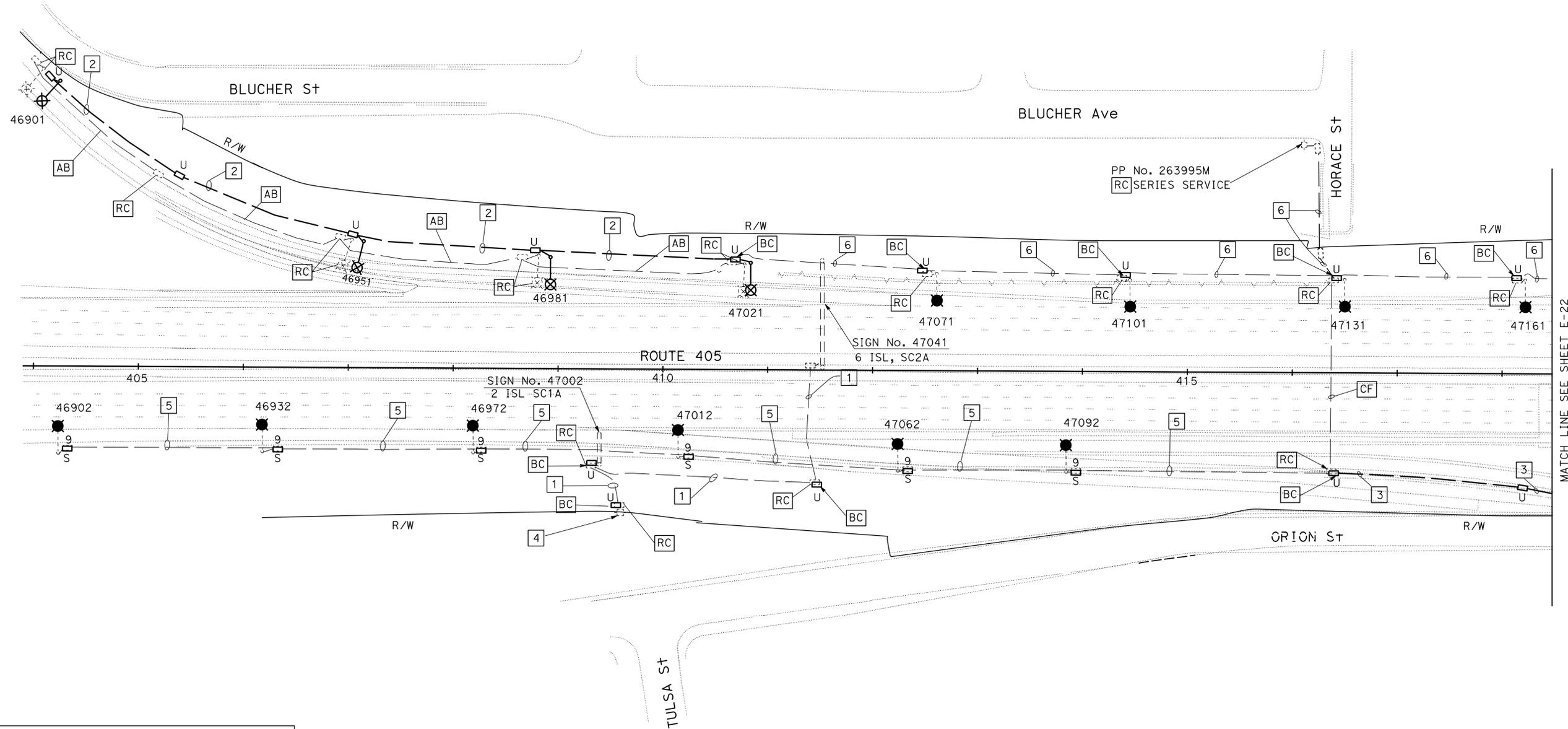
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	45	102

<i>Jesse Ruelas</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**JESSE RUELAS**  
 No. E015604  
 Exp. 12/31/15  
 ELECT  
 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.



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-21**

**NOTES: (THIS SHEET ONLY)**

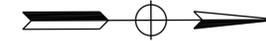
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-36.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	46	102

*Jesse Ruelas* 6/24/14  
 REGISTERED ELECTRICAL ENGINEER DATE  
 8-11-14  
 PLANS APPROVAL DATE

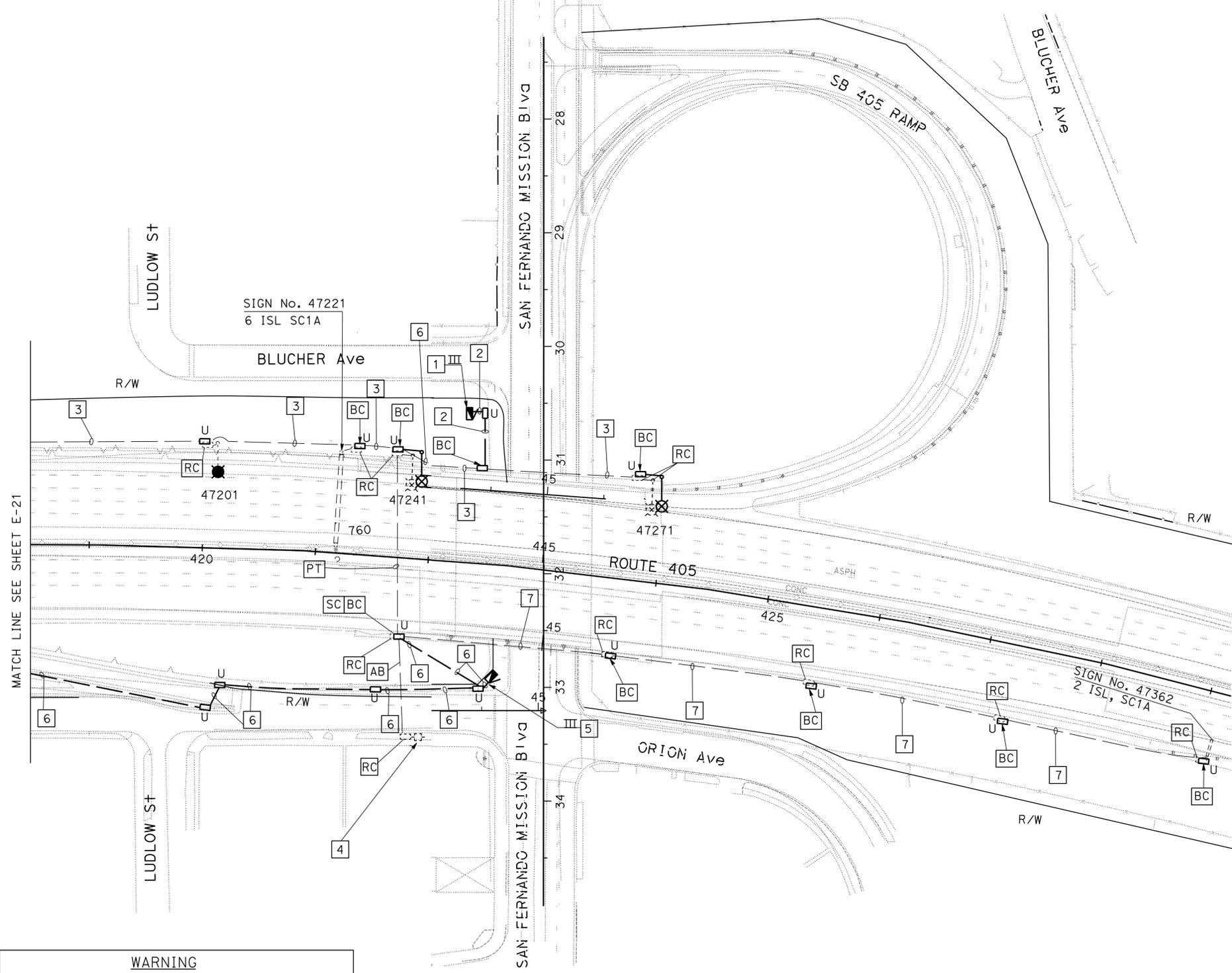
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**JESSE RUELAS**  
 No. E015604  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA



**LEGEND: (THIS SHEET ONLY)**

- 1 INSTALL 120/240 V, TYPE III-BF, METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1-100 A, 240 V, 2P, CB- MAIN BREAKER  
 1-30 A, 240 V, 2P, CB- (Fwy Ltg)  
 1-15 A, 120 V, 1P, CB-PEC  
 Ctid No. 07-53-405-0-047.238M  
 ADDRESS: 15590 1/2 SAN FERNANDO MISSION Blvd
- 2 INSTALL 2"C, 2#4 (Ltg), 1#8 (G).
- 3 Exist 2"C, RC 2#8 (5KV), 1#6 (G),  
 ADD 2#4 (Ltg), 1#8 (G).
- 4 RC 120/240 V TYPE F SERVICE PP No. 23897CWT
- 5 INSTALL 120/240 V, TYPE III-BF, METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
 1-100 A, 240 V, 2P, CB- MAIN BREAKER  
 1-30 A, 240 V, 2P, CB- (Fwy Ltg)  
 1-15 A, 120 V, 1P, CB- PEC  
 Ctid No. 07-53-405-0-047.370M  
 ADDRESS: 15520 1/2 SAN FERNANDO MISSION Blvd
- 6 INSTALL 2"C, 2#6 (Ltg), 1#8 (G).
- 7 Exist 2"C, RC 2#8 (5KV), 1#6 (G),  
 ADD 2#6 (Ltg), 1#8 (G).



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

**E-22**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED-DESIGNED BY MOHAMMAD ELAZEM  
 CHECKED BY JESSE RUELAS  
 REVISED BY DATE REVISED

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM, SEE SHEET E-37.
4. FOR OTHER NOTES AND LEGEND, SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

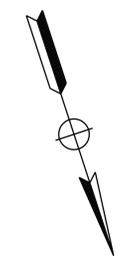
- 1 INSTALL 2"C, 2#6 (Ltg), 1#8 (G).
- 2 SEE LIGHTING (CITY STREET) SHEET E-40.
- 3 Exist 2"C. RC CONDUCTORS. ADD 2#6 (Ltg), 1#8 (G).
- 4 INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:  
100 A, 240 V, 2P, CB-MAIN  
1-30 A, 240 V, 2P, CB-Ltg  
1-15 A, 120 V, 1P, CB-PEC  
Ctid No. 07-53-170-R-014.764M  
ADDRESS: 4633 1/2 TUJUNGA Ave
- 5 INSTALL 2-3"C, 2#6 (Ltg), 1#8 (G).

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	47	102

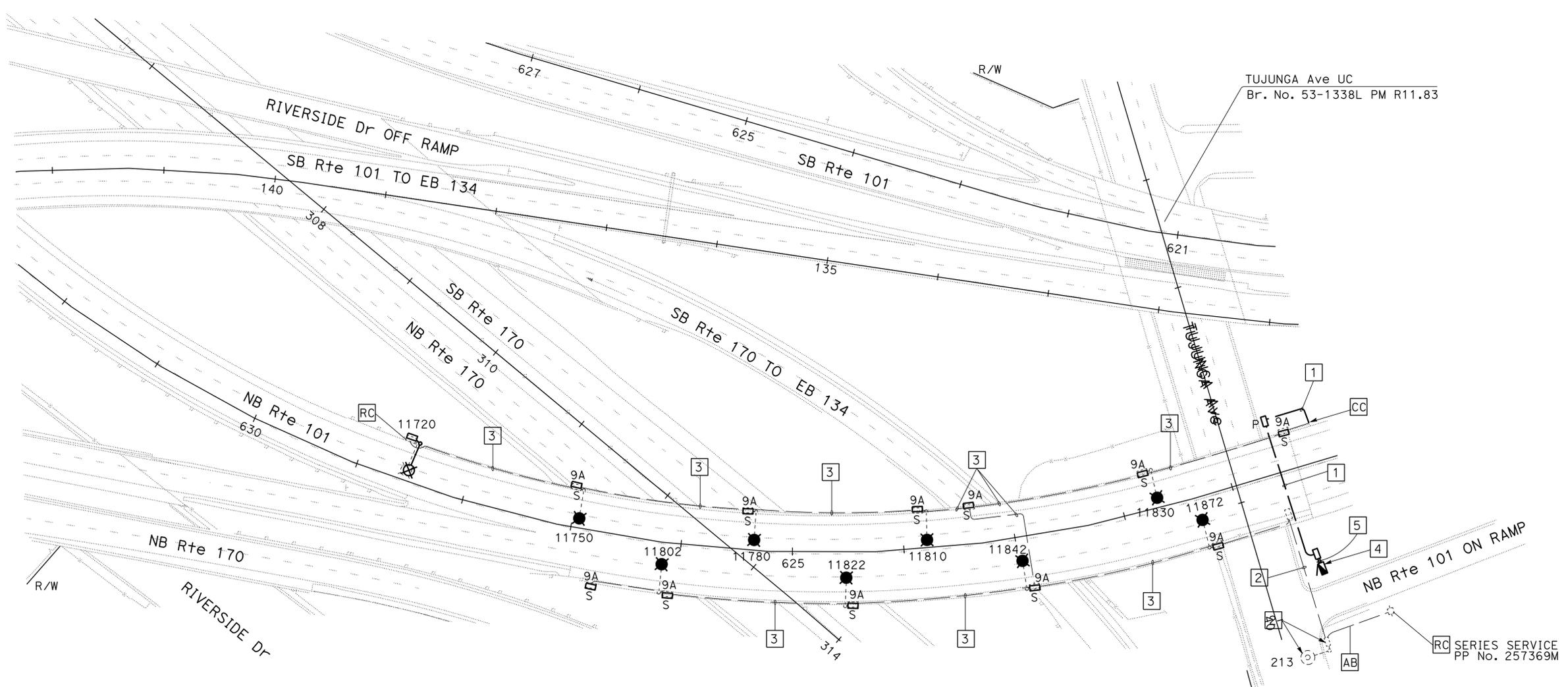
REGISTERED ELECT ENGINEER DATE 6/24/14  
 C. BURCIAGA  
 No. E015302  
 Exp. 3/31/15  
 ELECT

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.



REVISOR: QUINCIE TRAN, CECILIO BURCIAGA  
 CHECKED BY: YI TSAU  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 DEPARTMENT OF TRANSPORTATION: TRAFFIC DESIGN  
 STATE OF CALIFORNIA: Caltrans



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE 1" = 50"

APPROVED FOR ELECTRICAL WORK ONLY

**E-23**

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION 06-30-14

**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR WIRING DIAGRAM SEE SHEET E-38.
4. FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

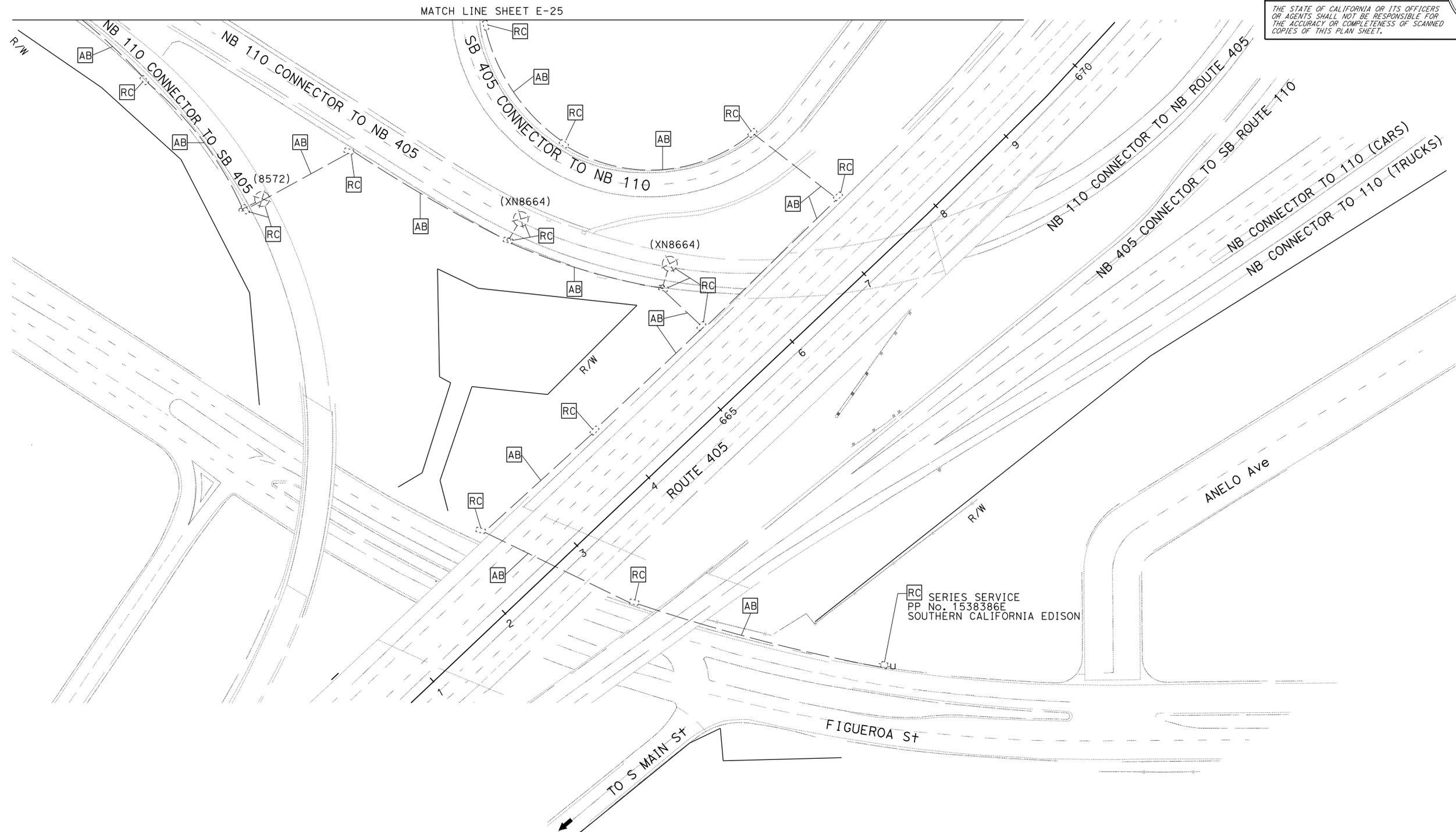
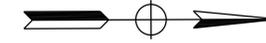
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170 118, 405	Var	48	102

*Jesse Ruelas* 6/24/14  
 REGISTERED ELECT 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.

REGISTERED PROFESSIONAL ENGINEER  
**JESSE RUELAS**  
 No. E015604  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA



**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

**E-24**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 DESIGNED BY: KARINE PARTAMIAN  
 CHECKED BY: JESSE RUELAS  
 REVISED BY: [blank]  
 DATE REVISED: [blank]

LAST REVISION: 06-26-14  
 DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43



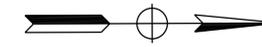
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CALCULATED/DESIGNED BY: KARINE PARTAMIAN  
 CHECKED BY: JESSE RUELAS  
 REVISED BY: [ ]  
 DATE REVISED: [ ]

**NOTES: (THIS SHEET ONLY)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXIST UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- FOR WIRING DIAGRAM SEE SHEET E-38 AND E-39.
- FOR OTHER NOTES AND LEGEND SEE SHEET E-1.

**LEGEND: (THIS SHEET ONLY)**

- 1 INSTALL 2"C, 2#4 (Fwy Ltg), 1#8 (G).
- 2 INSTALL 3"C, 2#4 (Fwy Ltg), 1#8 (G).

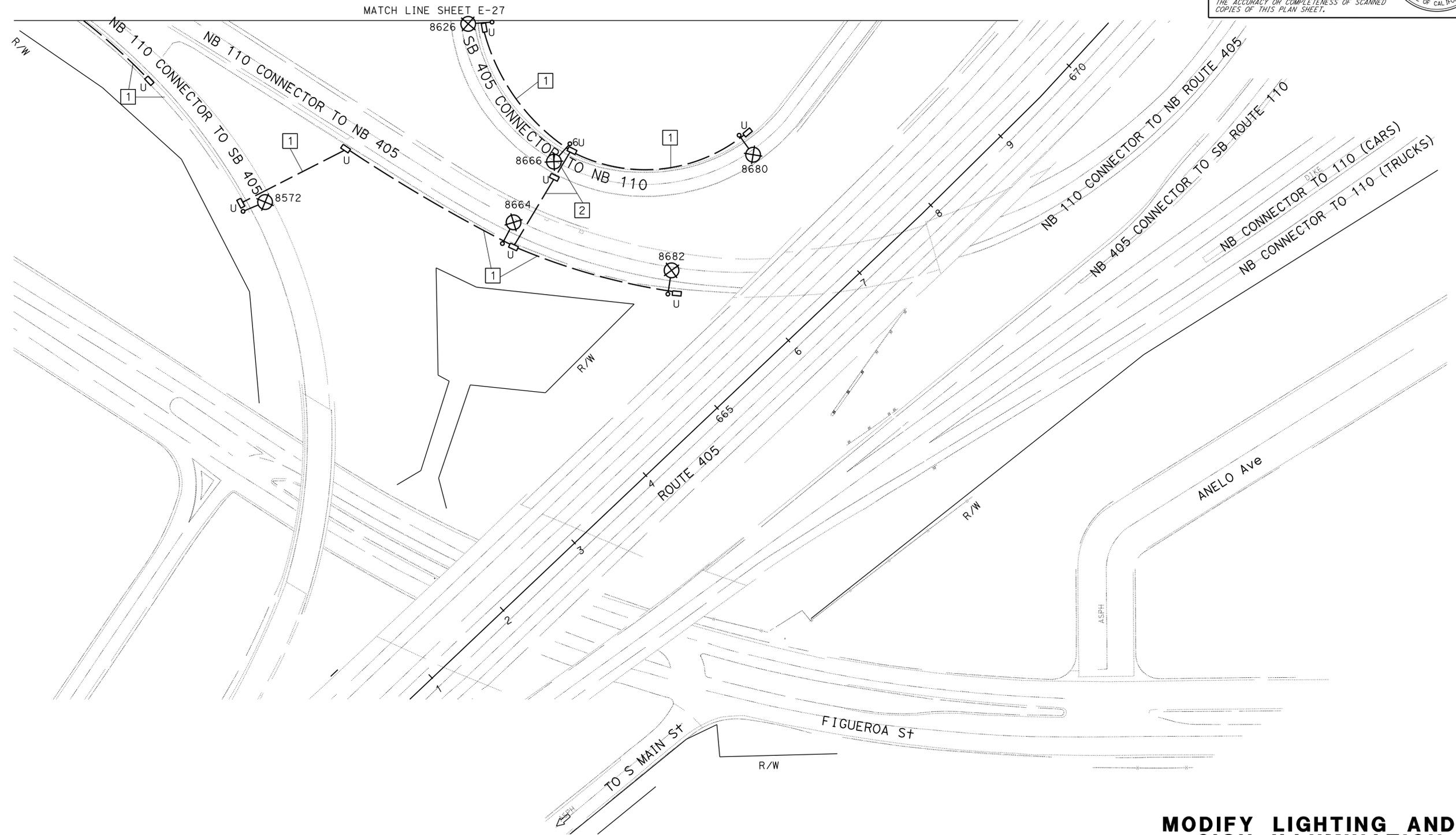


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170 118, 405	Var	50	102

REGISTERED ELECT ENGINEER DATE: 6/24/14  
 REGISTERED PROFESSIONAL ENGINEER: JESSE RUELAS  
 No. E015604  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA

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.



**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 SCALE 1" = 50'

**E-26**

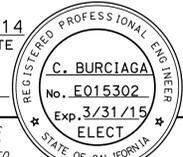
APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION: 06-26-14 | DATE PLOTTED => 12-SEP-2014 | TIME PLOTTED => 09:43



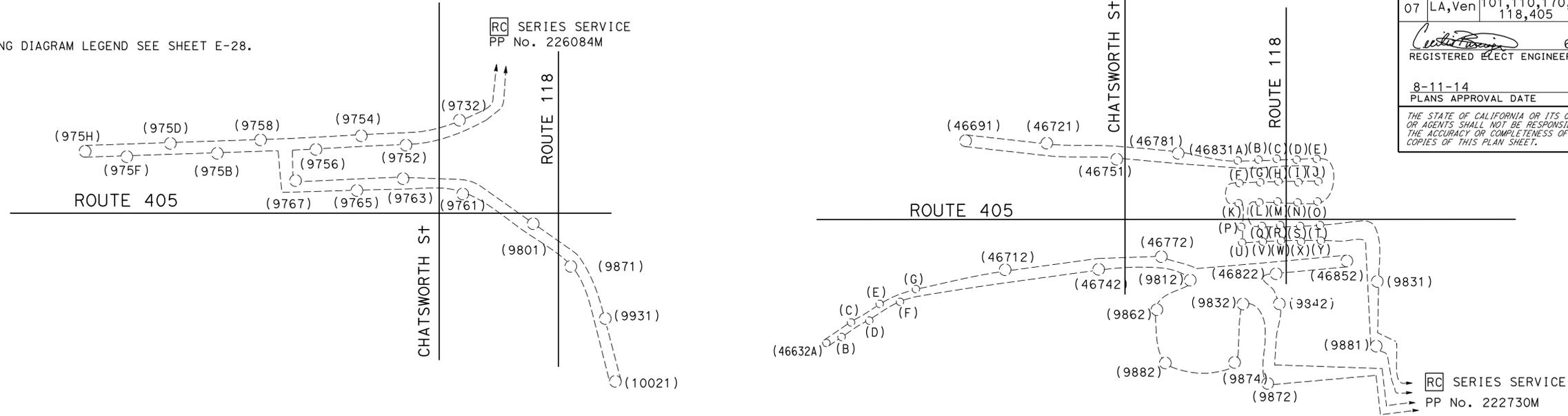


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	53	102
REGISTERED ELECT ENGINEER			DATE	6/24/14	
8-11-14			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



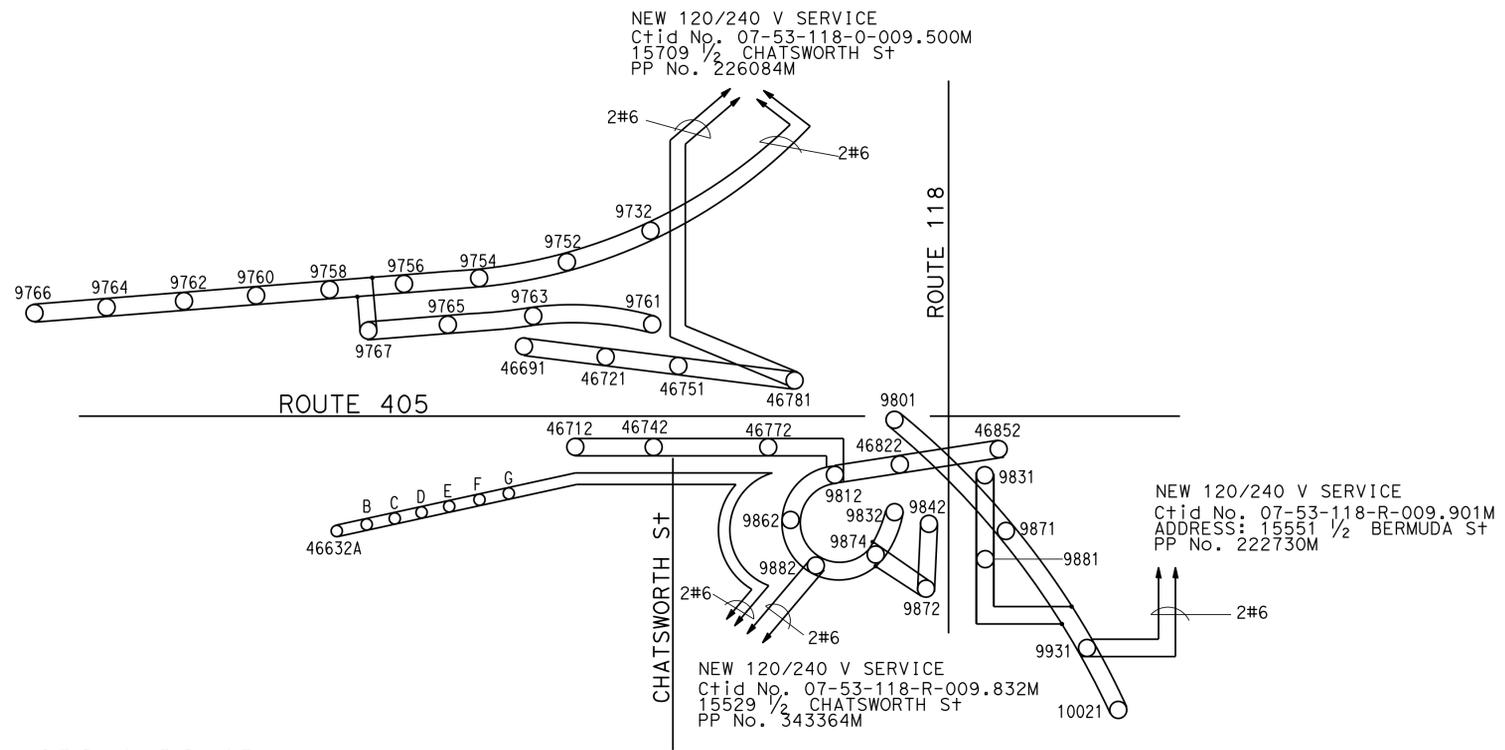
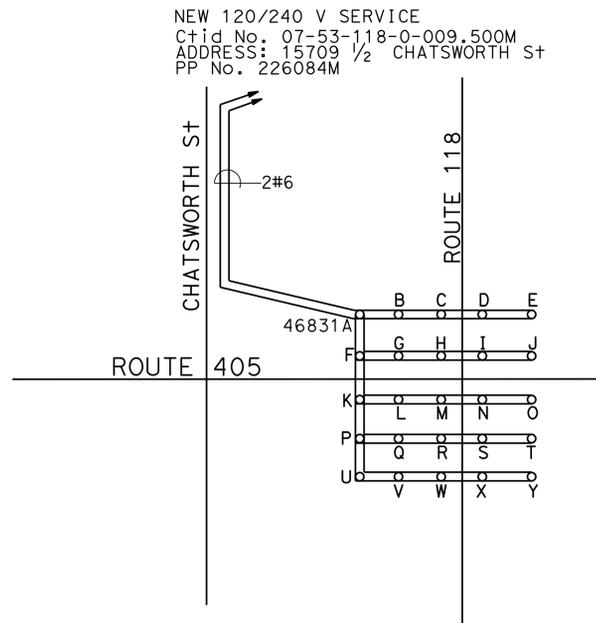
**NOTE:**

1. FOR WIRING DIAGRAM LEGEND SEE SHEET E-28.



**EXISTING WIRING TO BE REMOVED**

E-4 THRU E-7



**NEW WIRING DIAGRAM**

E-4 THRU E-7

**MODIFY LIGHTING AND SIGN ILLUMINATION**

NO SCALE **E-29**

**(WIRING DIAGRAM)**

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

FUNCTIONAL SUPERVISOR  
YI TSAU

CHECKED BY

QUINCIE TRAN  
CECILIO BURCIAGA

REVISED BY  
DATE REVISED

x

x

x

x

x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	54	102

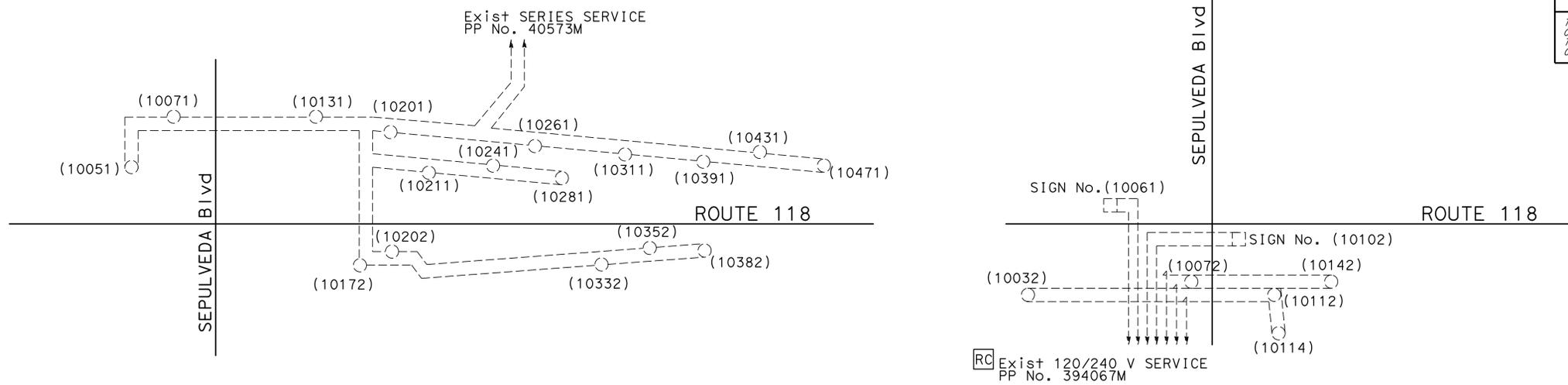
<i>C. Burciaga</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

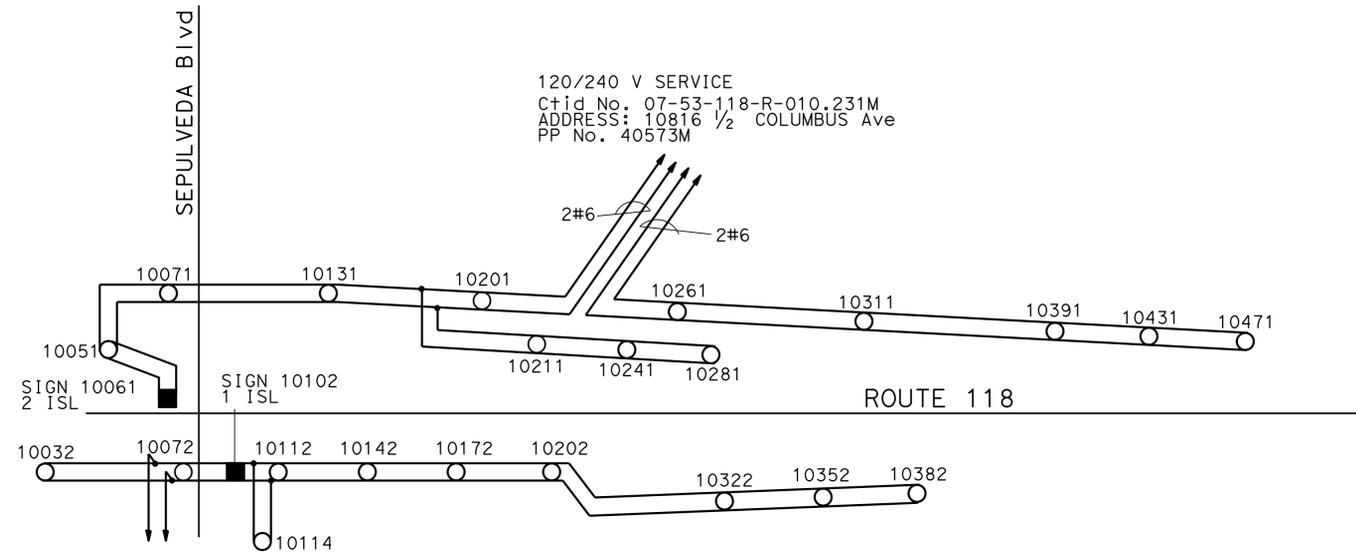
REGISTERED PROFESSIONAL ENGINEER
C. BURCIAGA
No. E015302
Exp. 3/31/15
ELECT
STATE OF CALIFORNIA

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

**NOTE:**  
1. FOR WIRING DIAGRAM LEGEND SEE SHEET E-28.



EXISTING WIRING TO BE REMOVED  
E-8 & E-9



NEW WIRING DIAGRAM  
E-8 & E-9

(WIRING DIAGRAM)

**MODIFY LIGHTING AND SIGN ILLUMINATION**

NO SCALE

**E-30**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
FUNCTIONAL SUPERVISOR: YI TSAU  
QUINCIE TRAN: CECILIO BURCIAGA  
REVISOR: [blank] DATE REVISOR: [blank]  
CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]



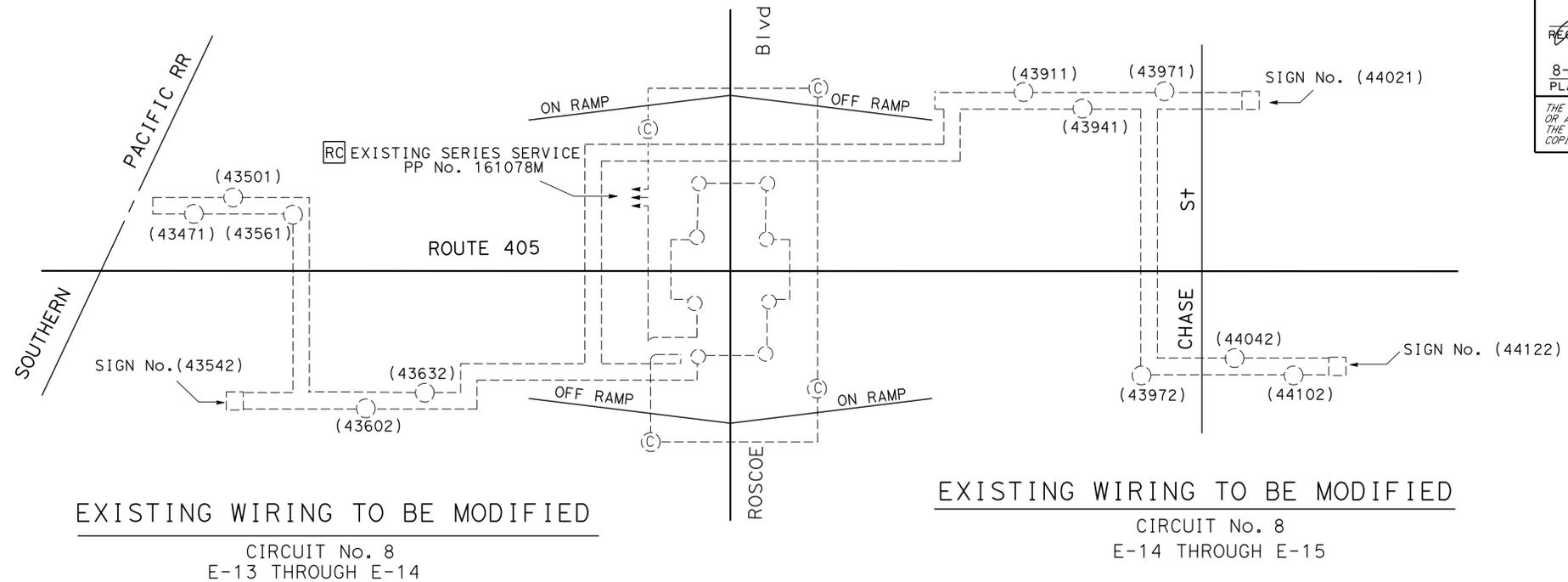
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170 118, 405	43.76/47.1	56	102

<i>Jesse Ruelas</i>	6/24/14	
REGISTERED ELECT 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.

**NOTE:**  
1. FOR WIRING DIAGRAM LEGEND, SEE SHEET E-28.



EXISTING WIRING TO BE MODIFIED

EXISTING WIRING TO BE MODIFIED

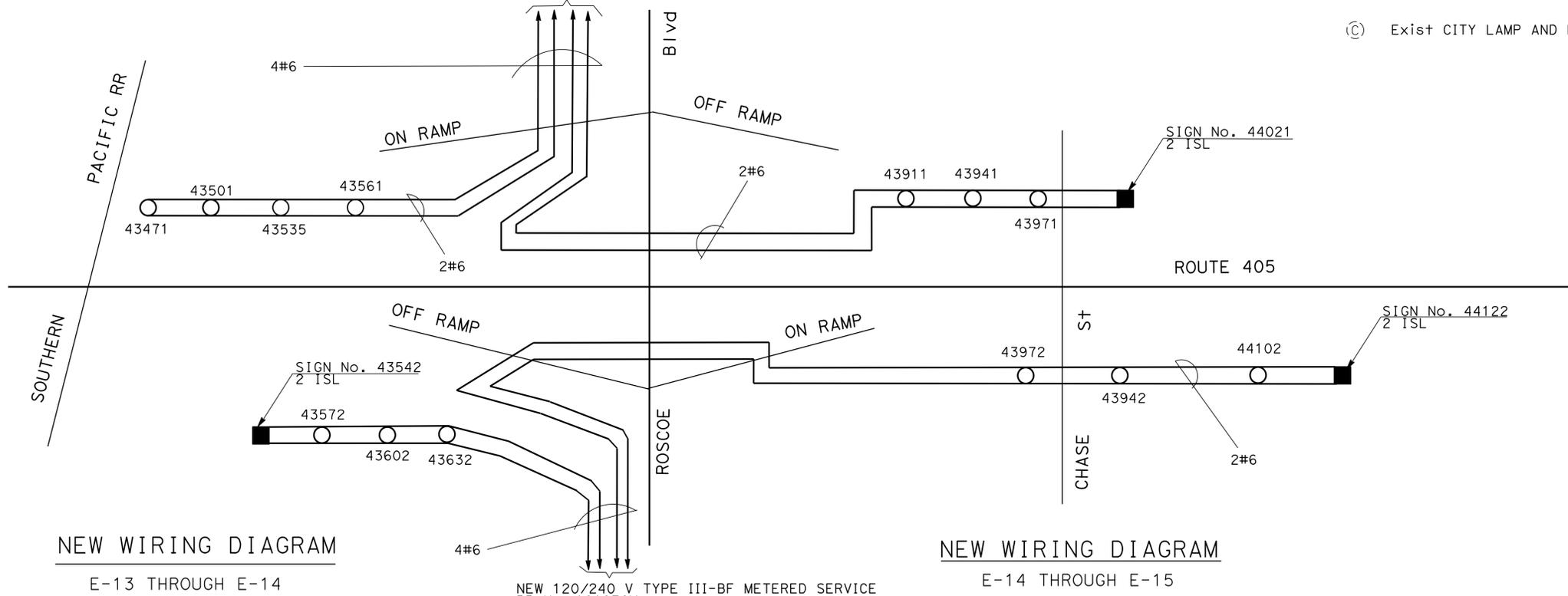
CIRCUIT No. 8  
E-13 THROUGH E-14

CIRCUIT No. 8  
E-14 THROUGH E-15

NEW 120/240 V TYPE III-BF METERED SERVICE  
PP No. 136801M  
ADDRESS: 15640 1/2 ROSCOE Blvd  
Ctid No. 07-53-405-R-043.764M

WIRING DIAGRAM LEGEND: (THIS SHEET ONLY)

(C) Exist CITY LAMP AND BALLAST. SEE SHEET E-42.



NEW WIRING DIAGRAM

NEW WIRING DIAGRAM

E-13 THROUGH E-14

E-14 THROUGH E-15

NEW 120/240 V TYPE III-BF METERED SERVICE  
PP No. 161076M  
ADDRESS: 15614 1/2 ROSCOE Blvd  
Ctid No. 07-53-405-R-043.763M

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
NO SCALE

(WIRING DIAGRAM)

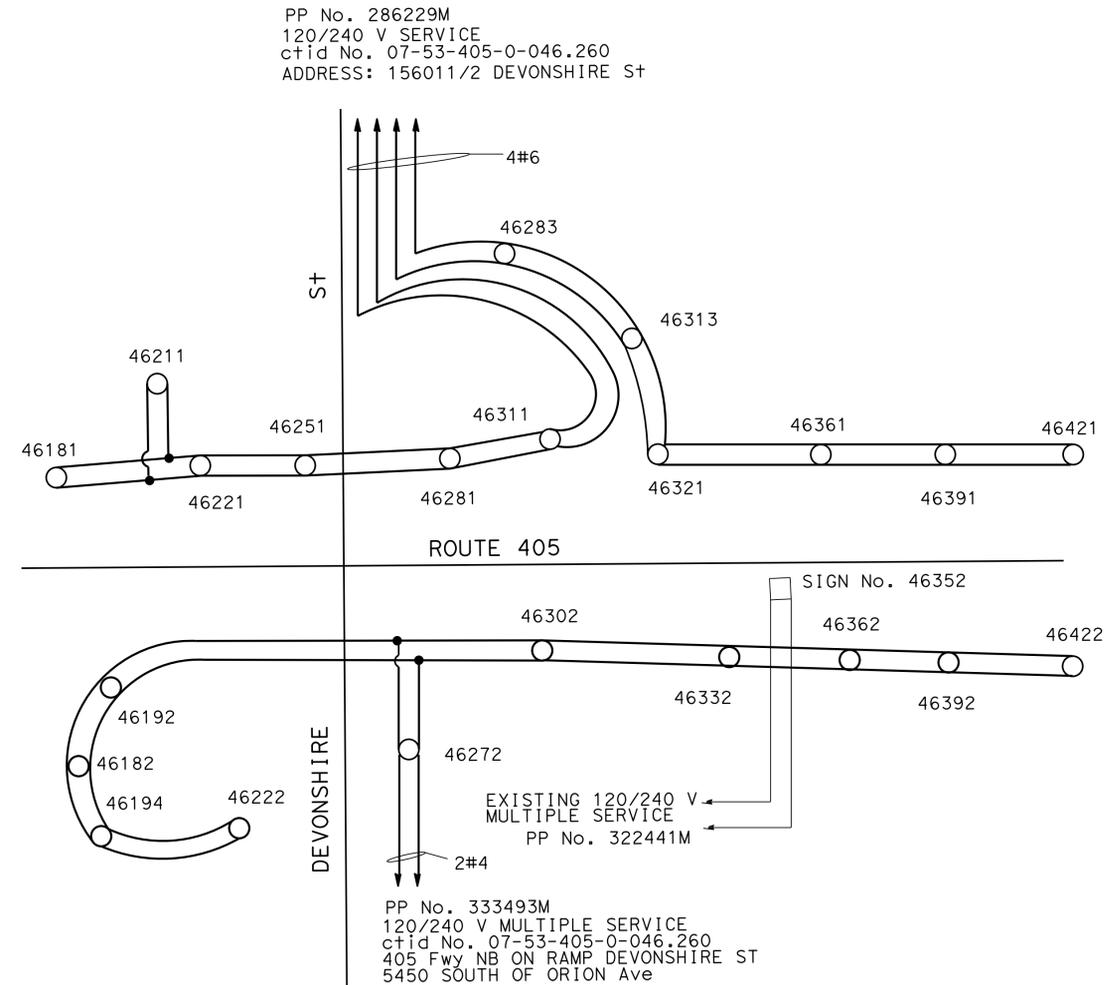
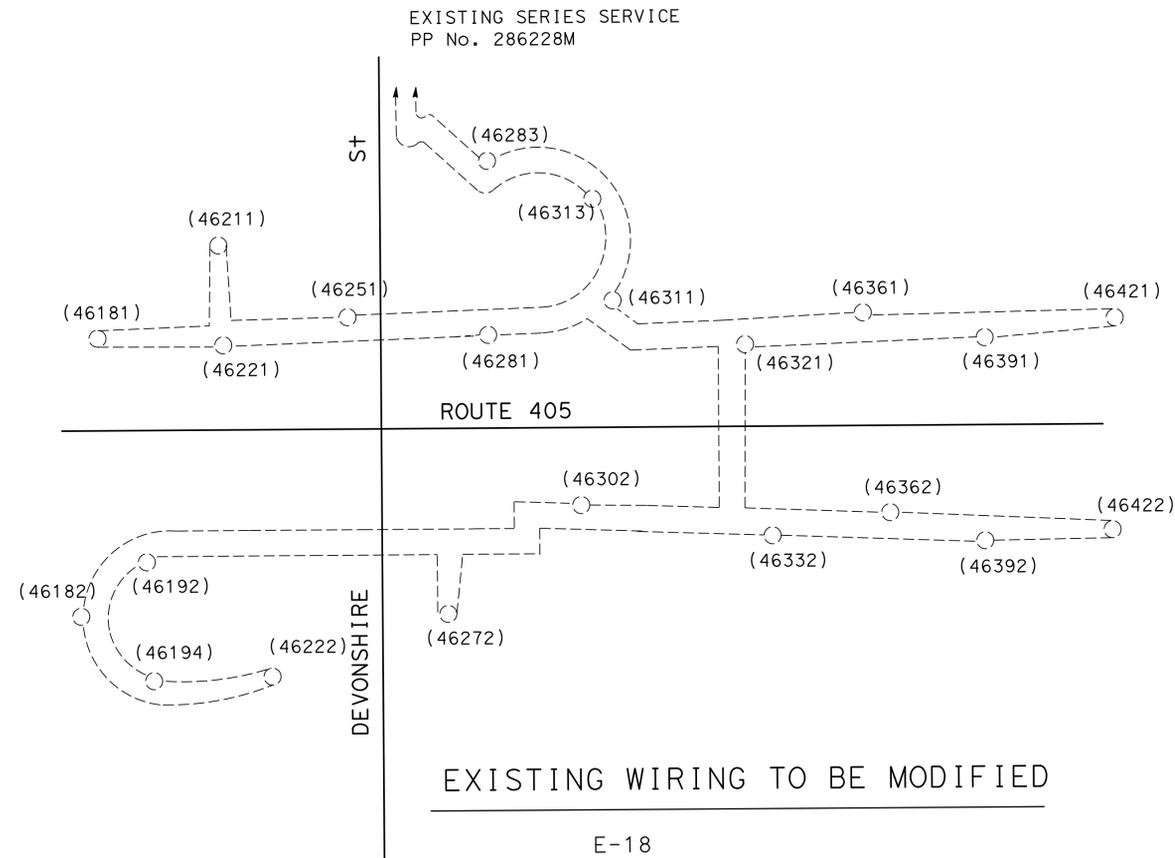
**E-32**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
FUNCTIONAL SUPERVISOR: YI TSAU  
REVISOR: KARINE PARTAMIAN  
DESIGNER: JESSE RUELAS  
CHECKED BY: [Blank]  
DESIGNED BY: [Blank]



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, ven	101,110,170 118, 405	Var	58	102
		<i>Jesse Ruelas</i> 6/24/14 REGISTERED ELECT 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>					

NOTE: (THIS SHEET ONLY)  
 1. FOR WIRING DIAGRAM LEGEND, SEE SHEET E-28.



PP No. 286229M  
 120/240 V SERVICE  
 ctid No. 07-53-405-0-046.260  
 ADDRESS: 156011/2 DEVONSHIRE ST

NEW WIRING DIAGRAM  
 E-18

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 NO SCALE

**E-34**

(WIRING DIAGRAM)

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

FUNCTIONAL SUPERVISOR  
 YI TSAU

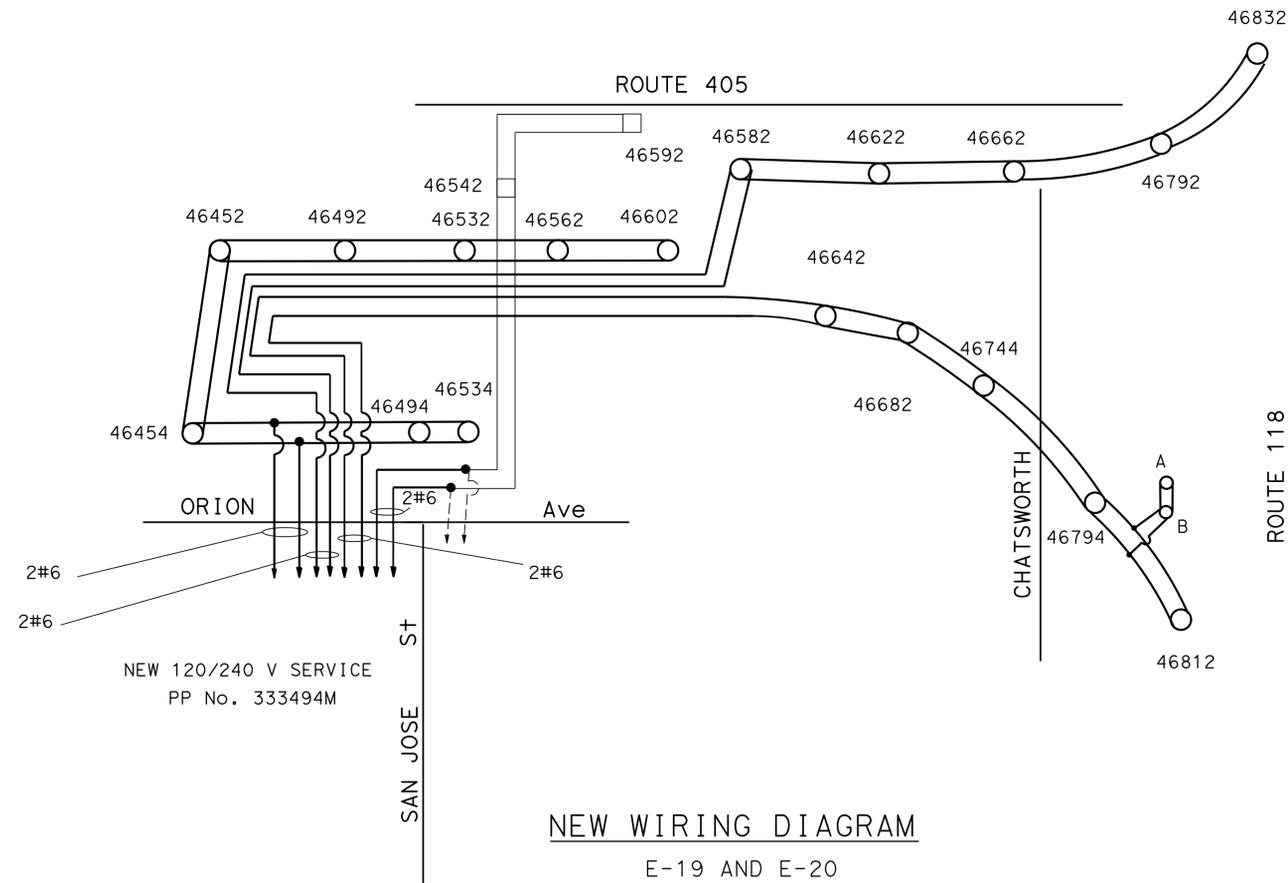
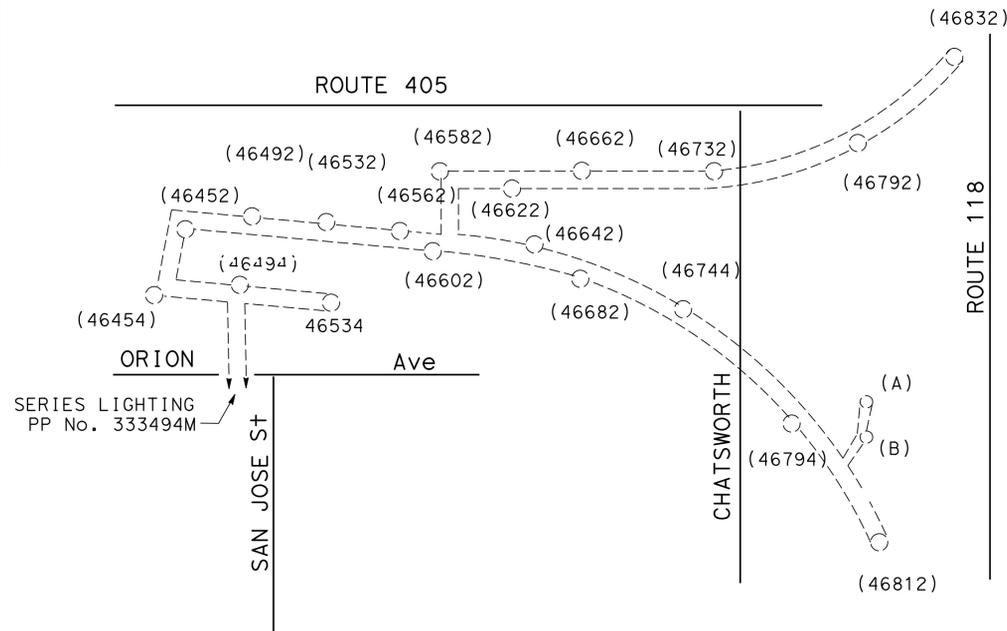
CALCULATED-DESIGNED BY  
 CHECKED BY

HOSSAIN KIAN  
 JESSE RUELAS

REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	43.76/47.1	59	102
		<i>Jesse Ruelas</i> REGISTERED ELECTRICAL ENGINEER DATE 6/24/14		REGISTERED PROFESSIONAL ENGINEER <b>JESSE RUELAS</b> No. E015604 Exp. 12/31/15 ELECTRICAL STATE OF CALIFORNIA	
		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>					

NOTE: (THIS SHEET ONLY)  
 1. FOR WIRING DIAGRAM LEGEND, SEE SHEET E-28.



(WIRING DIAGRAM)

MODIFY LIGHTING AND SIGN ILLUMINATION  
 NO SCALE

E-35

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

FUNCTIONAL SUPERVISOR  
 YI TSAU

CALCULATED-DESIGNED BY  
 CHECKED BY

HOSSAIN KIAN  
 JESSE RUELAS

REVISED BY  
 DATE REVISED

x

x

x

x

x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170, 118,405	Var	60	102

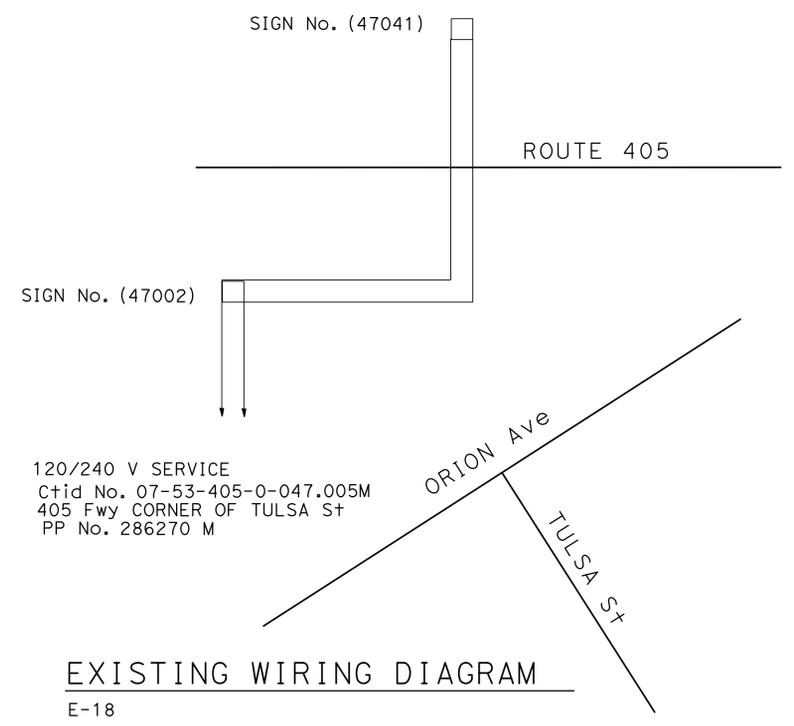
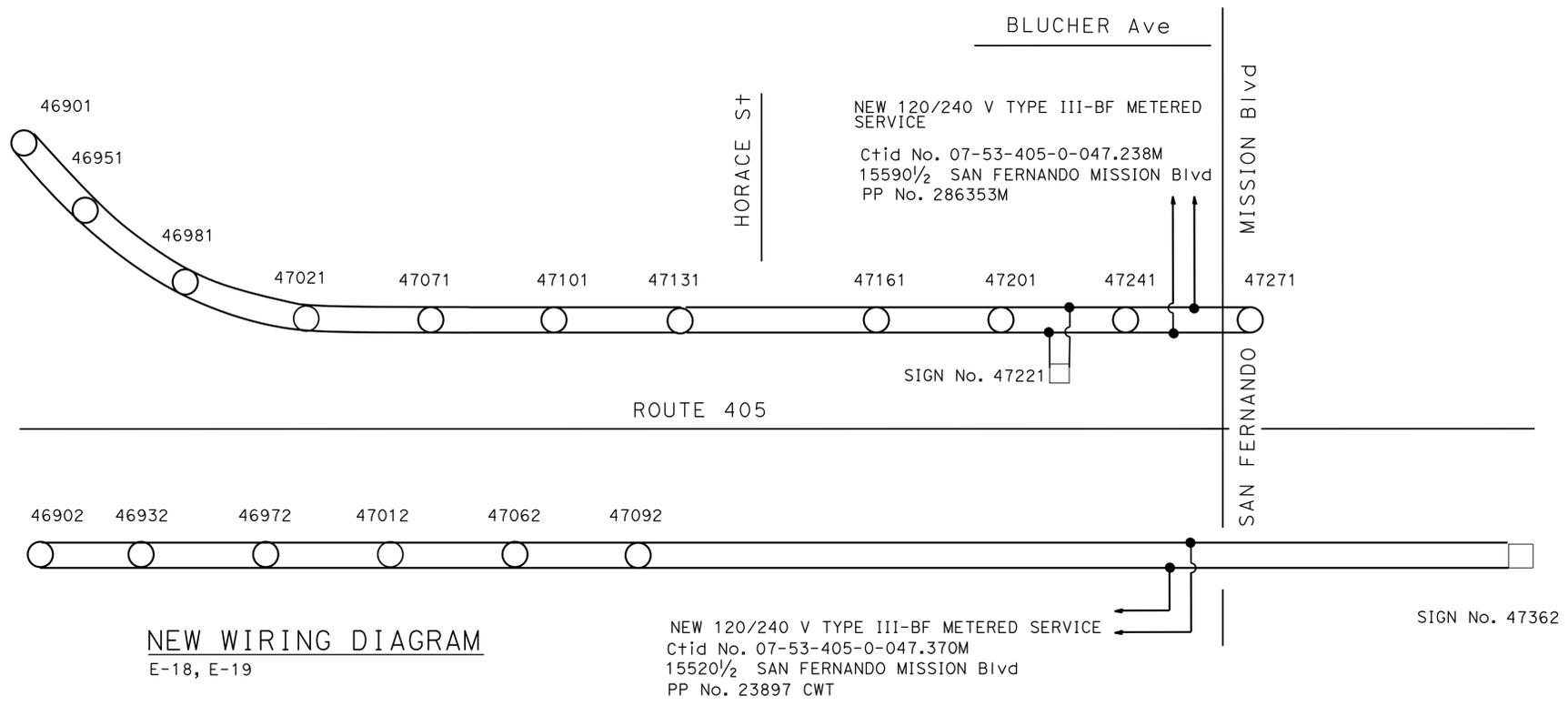
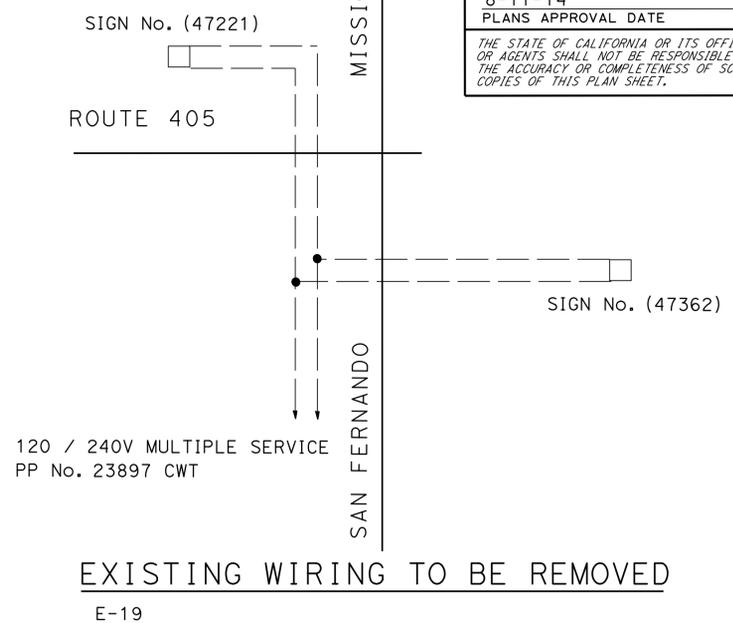
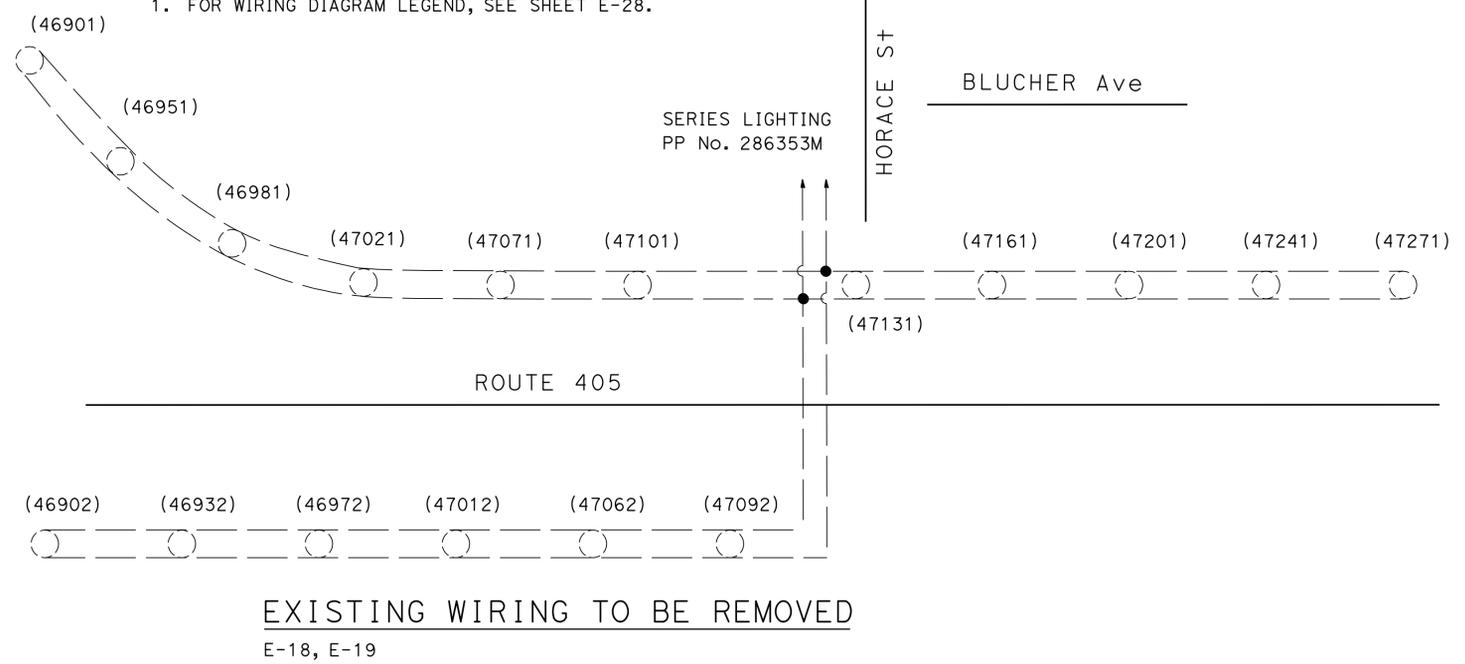
<i>Jesse Ruelas</i>	6/24/14
REGISTERED ELECTRICAL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
JESSE RUELAS
No. E015604
Exp. 12/31/15
ELECTRICAL
STATE OF CALIFORNIA

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

**NOTE:**  
1. FOR WIRING DIAGRAM LEGEND, SEE SHEET E-28.



**(WIRING DIAGRAM)**

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
NO SCALE

**E-36**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
FUNCTIONAL SUPERVISOR: YI TSAU  
DESIGNED BY: HOSSAIN KIAN  
CHECKED BY: JESSE RUELAS  
REVISOR: [ ]  
DATE: [ ]

BORDER LAST REVISED 7/2/2010

USERNAME => s115484  
DGN FILE => 73x930ua036.dgn

RELATIVE BORDER SCALE IS IN INCHES  
0 1 2 3

UNIT 1880

PROJECT NUMBER & PHASE

07130003291

DATE PLOTTED => 12-SEP-2014  
TIME PLOTTED => 09:45  
LAST REVISION: 06-26-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	61	102

<i>C. Burciaga</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

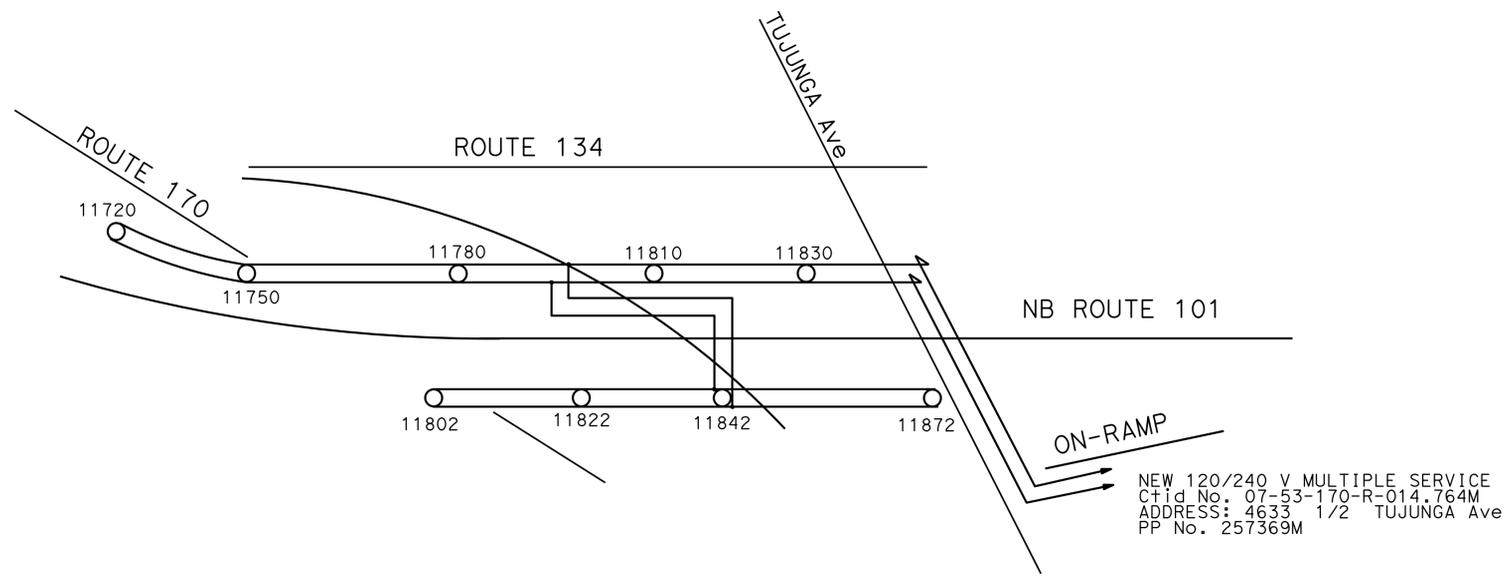
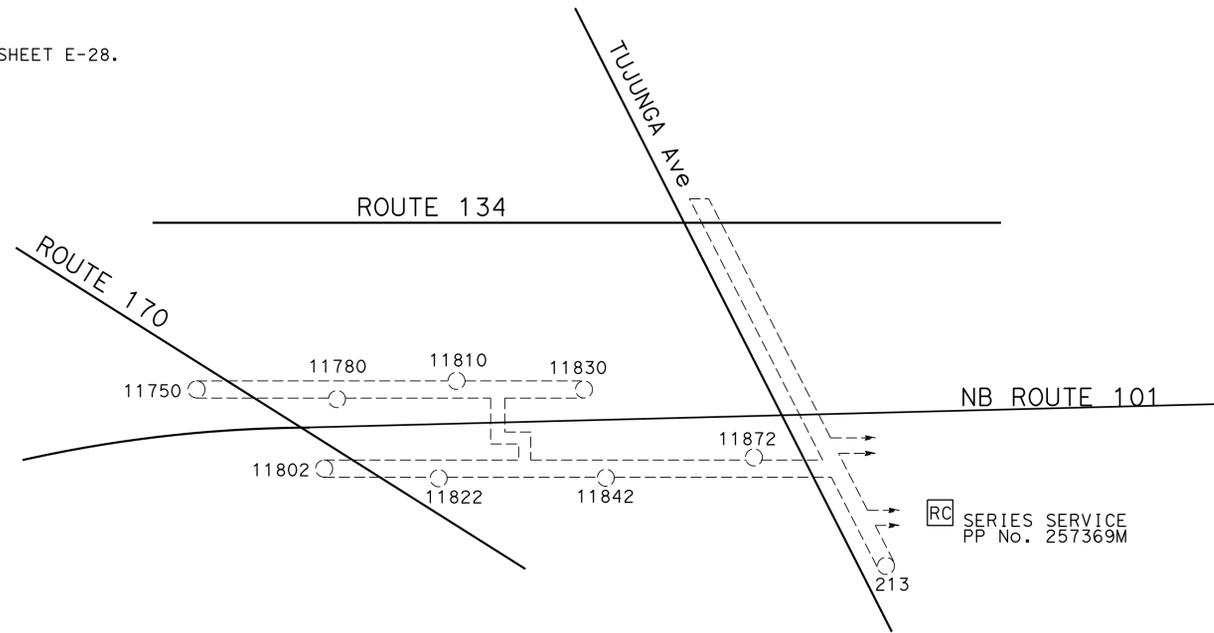
  

REGISTERED PROFESSIONAL ENGINEER
C. BURCIAGA
No. E015302
Exp. 3/31/15
ELECT
STATE OF CALIFORNIA

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

**NOTE:**

1. FOR WIRING DIAGRAM LEGEND, SEE SHEET E-28.



(WIRING DIAGRAM)

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 NO SCALE

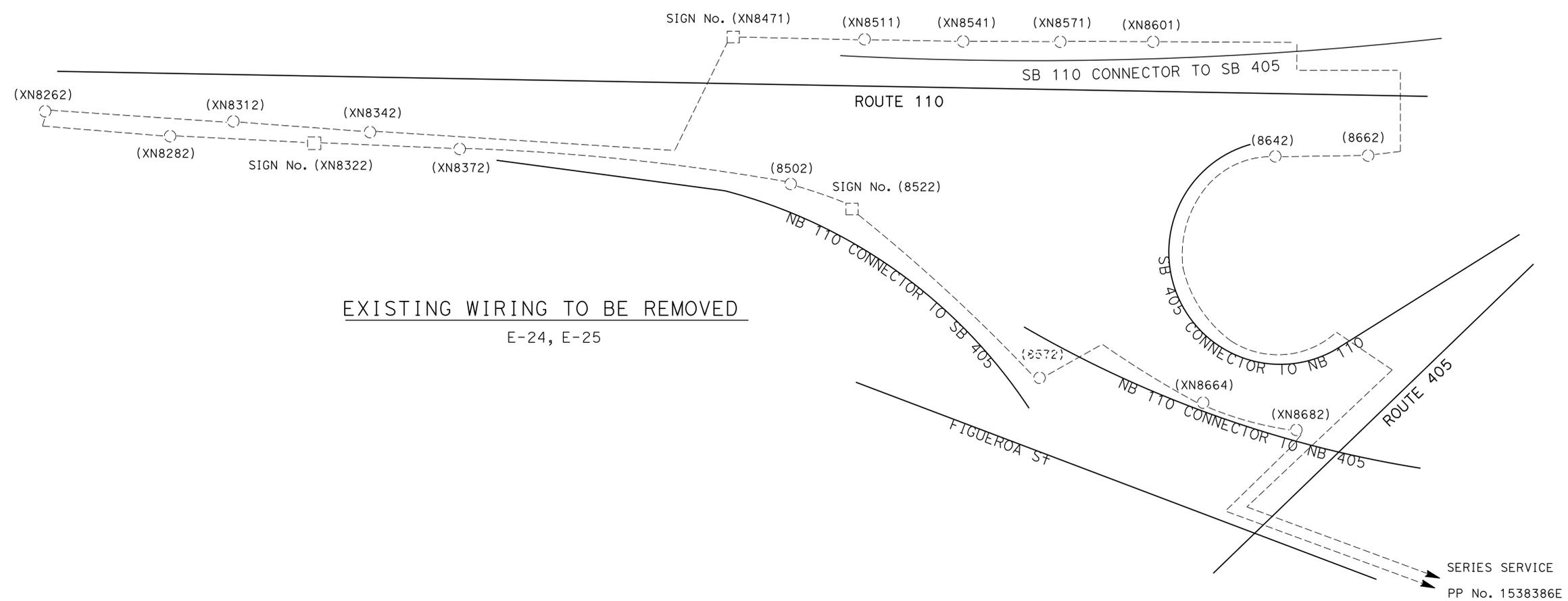
**E-37**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 QUINCIE TRAN: CECILIO BURCIAGA  
 REVISIONS: (x) (x) (x) (x)

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION 06-09-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	62	102
<i>Jesse Ruelas</i> REGISTERED ELECT ENGINEER		6/24/14 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>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR  
 YI TSAU  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 KARINE PARTAMIAN  
 JESSE RUELAS  
 REVISED BY  
 DATE REVISED



NOTE: (THIS SHEET ONLY)  
 1. FOR WIRING DIAGRAM LEGEND SEE SHEET E-28.

**(REMOVAL)**  
**(WIRING DIAGRAM)**

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
 NO SCALE

**E-38**

LAST REVISION   
 DATE PLOTTED => 12-SEP-2014   
 TIME PLOTTED => 09:43  
 06-30-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170, 118, 405	Var	63	102

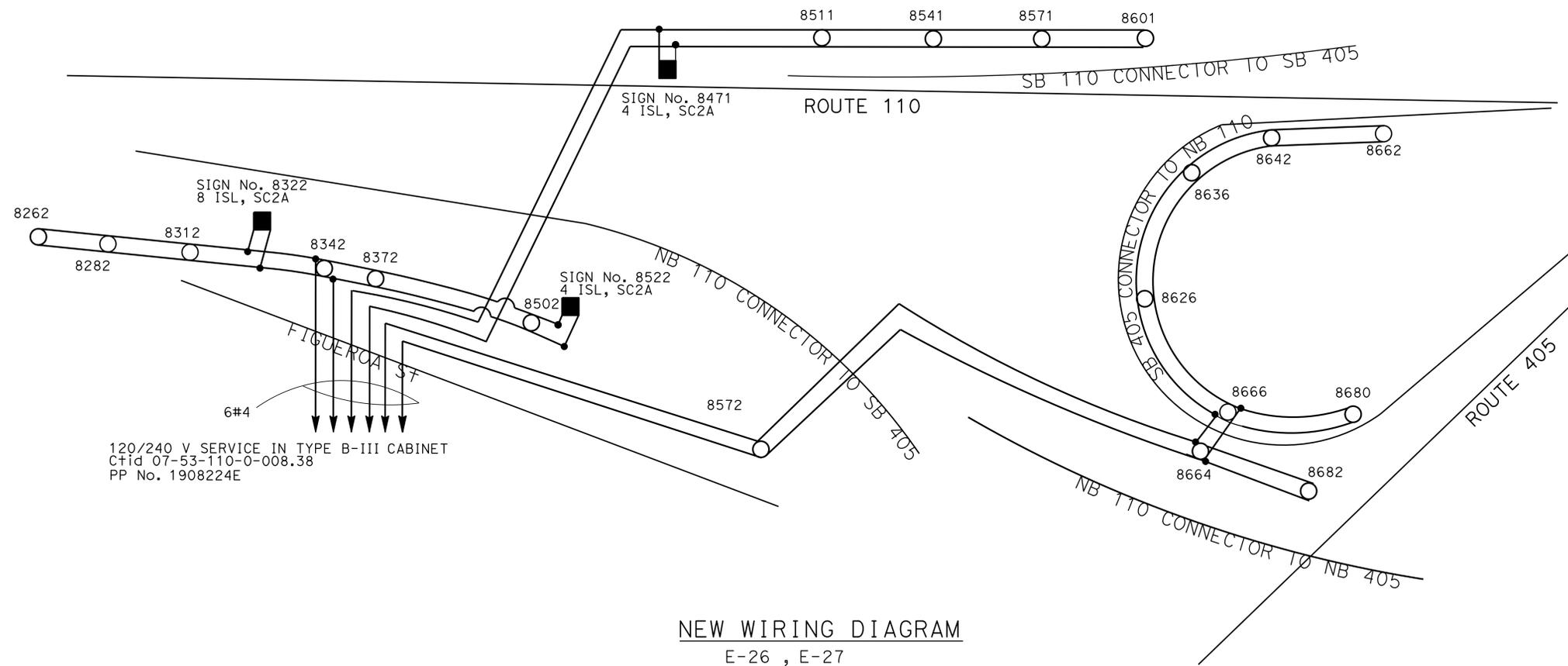
<i>Jesse Ruelas</i>	6/24/14
REGISTERED ELECT ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

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.	
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REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/15 STATE OF CALIFORNIA ELECT	
--	--



NEW WIRING DIAGRAM  
E-26 , E-27

NOTE:  
1. FOR WIRING DIAGRAM LEGEND SEE SHEET E-28.

**MODIFY LIGHTING AND SIGN ILLUMINATION**  
NO SCALE

**(WIRING DIAGRAM)**

**E-39**

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

FUNCTIONAL SUPERVISOR: YI TSAU  
CALCULATED/DESIGNED BY: YI TSAU  
CHECKED BY: YI TSAU  
KARINE PARTAMIAN  
JESSE RUELAS  
REVISED BY: KARINE PARTAMIAN  
DATE REVISED: JESSE RUELAS











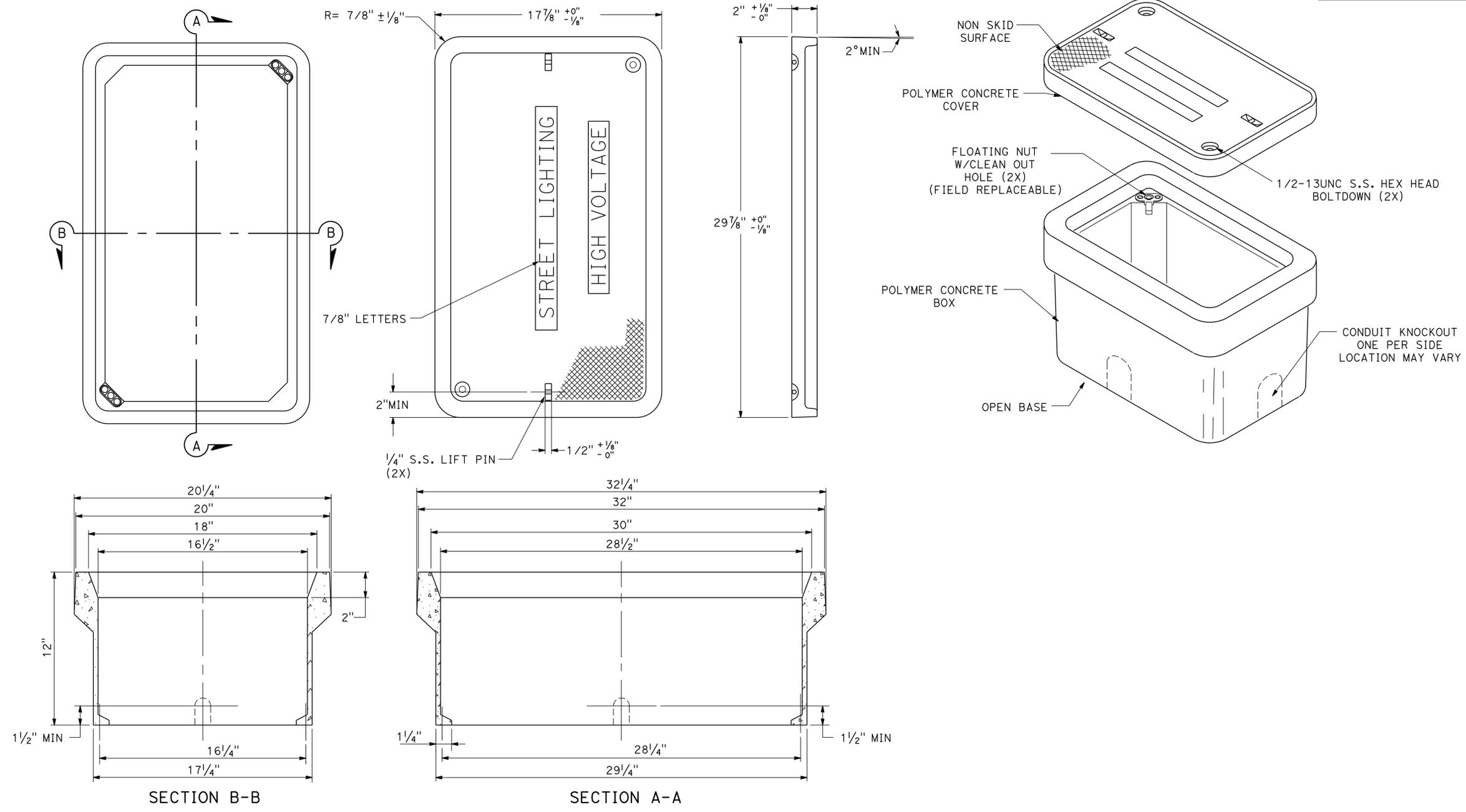
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	69	102

<i>Cecilio Burciaga</i>	6/24/14
REGISTERED ELECTRICAL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**CECILIO BURCIAGA**  
 No. E015302  
 Exp 3/31/15  
 ELECTRICAL  
 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.



**(ELECTRICAL DETAILS)  
(COMPOSITE TYPE 3 PULL BOX)**

**LIGHTING (CITY STREET)**

NO SCALE **E-45**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CHECKED BY: YI TSAU  
 DESIGNED BY: CECILIO BURCIAGA  
 REVISIONS: YI TSAU  
 DATE REVISION: YI TSAU

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION 06-30-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	70	102

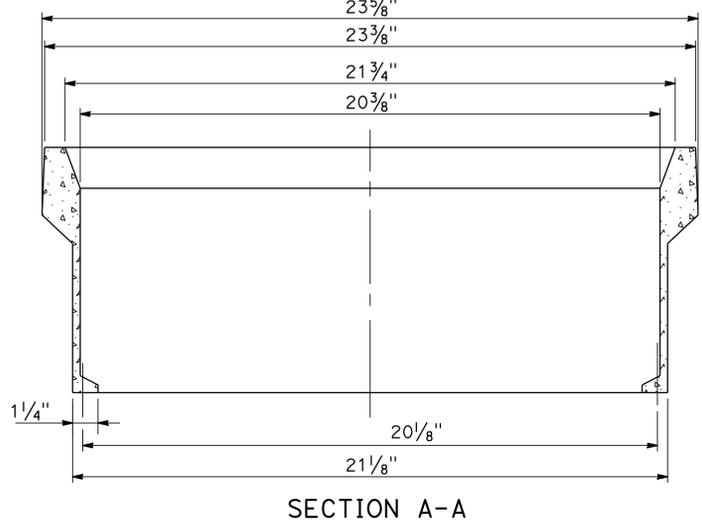
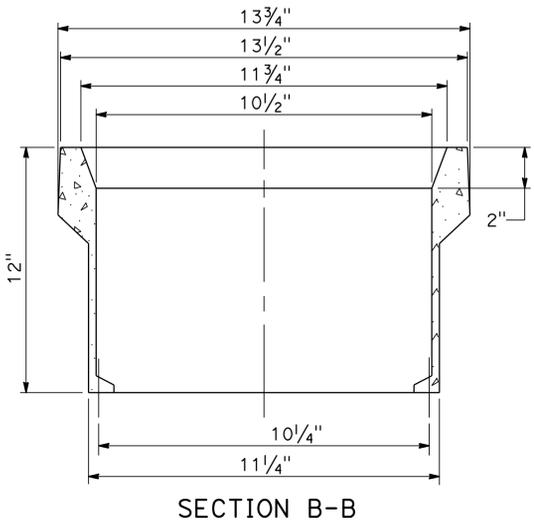
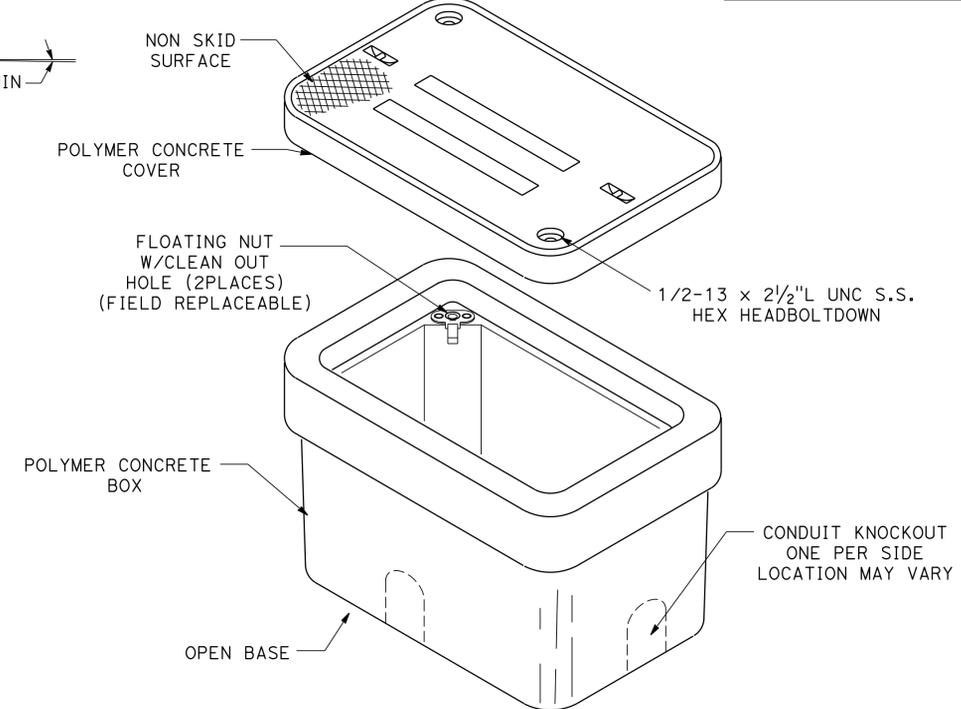
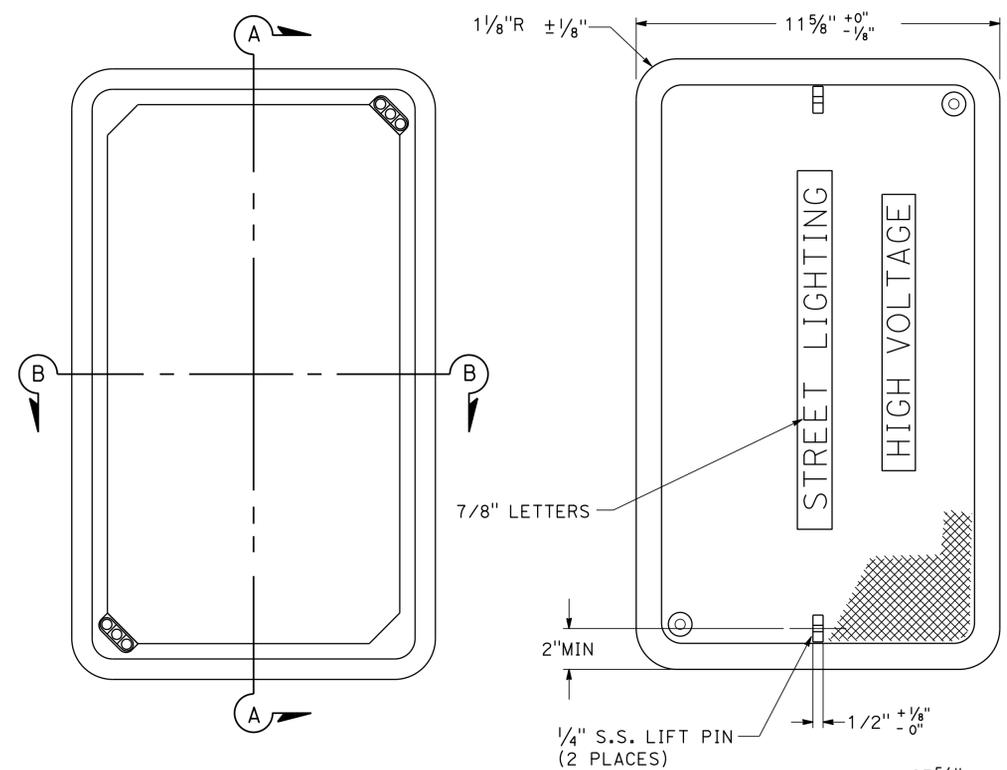
  

<i>Cecilio Burciaga</i>	6/24/14
REGISTERED ELECTRICAL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

CECILIO BURCIAGA
No. E015302
Exp 3/31/15
ELECTRICAL
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.



**(ELECTRICAL DETAILS)**  
**(COMPOSITE TYPE 2 PULL BOX)**

**LIGHTING (CITY STREET)**  
NO SCALE

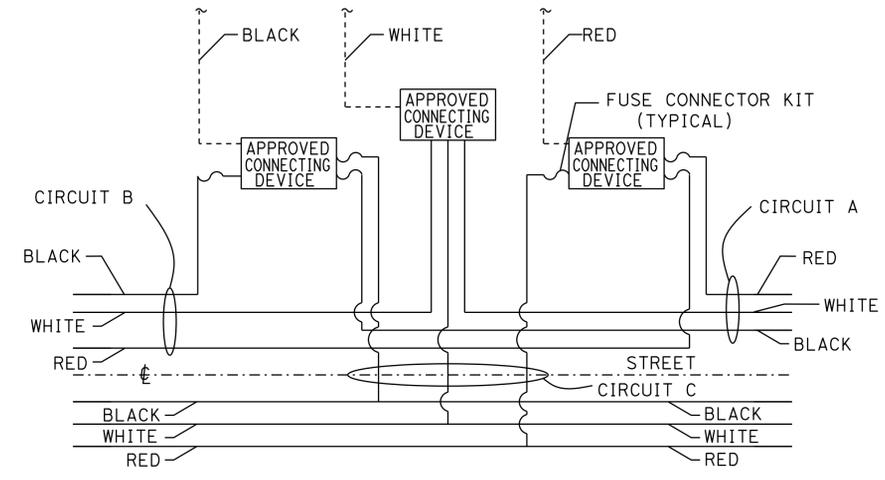
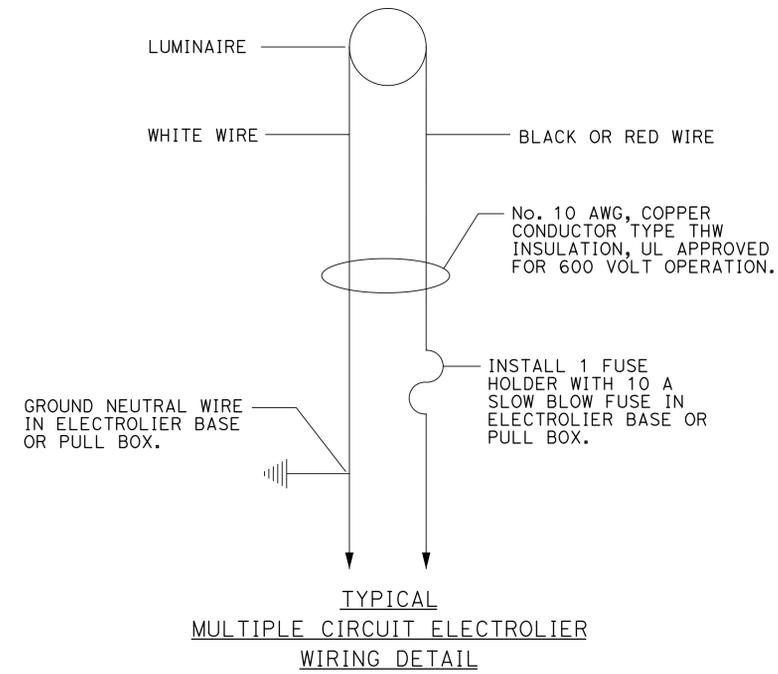
**E-46**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
FUNCTIONAL SUPERVISOR: YI TSAU  
DESIGNED BY: CECILIO BURCIAGA  
CHECKED BY: YI TSAU  
REVISOR: YI TSAU  
DATE REVISED: YI TSAU

DATE PLOTTED => 12-SEP-2014  
TIME PLOTTED => 09:43  
LAST REVISION 06-21-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	71	102
 REGISTERED ELECTRICAL ENGINEER DATE 6/24/14					
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  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED-DRAWN BY YI TSAU  
 CHECKED BY YI TSAU  
 CECILIO BURCIAGA  
 YI TSAU  
 REVISIONS: 8-11-14  
 PLANS APPROVAL DATE



\_\_\_\_\_ INDICATES WIRES INSTALLED BY STREET LIGHTING CONTRACTOR  
 - - - - - INDICATES WIRES INSTALLED BY SERVING COMPANY

**(ELECTRICAL DETAILS)**

**LIGHTING  
(CITY STREET)**  
NO SCALE

**E-47**

LAST REVISION: 00-00-00    DATE PLOTTED => 12-SEP-2014    TIME PLOTTED => 09:43



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	118 118,170,405	Var	73	102

REGISTERED ELECTRICAL ENGINEER DATE 6/24/14  
 C. BURCIAGA No. E015302 Exp. 3/31/15  
 PLANS APPROVAL DATE 8-11-14  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES: (THIS SHEET ONLY)**

1. **RC** PULL BOX COVER. INSTALL TAMPER RESISTANT PULL BOX COVER. SEE SHEET E-54 FOR PULL BOX INSTALLATION DETAILS.
2. SEE SHEET E-48 FOR TYPICAL LOCATIONS OF PULL BOXES AT ON AND OFF RAMPS.
3. FOR No. 9 OR 9A PULL BOXES, INSTALL No. A9 SECURITY LID.

**PULL BOX TABLE - LA ROUTE 405**

Approx PM	LOCATION	No. 5 IN PAVED	No. 5 IN NON-PAVED	No. 6 IN PAVED	No. 6 IN NON-PAVED	No. 9 OR No. 9A
47.5/ 48.4	SOUTH OF STRANWOOD Ave- NORTH OF RINALDI St SB	1	17	-	-	-
	SOUTH OF STRANWOOD Ave- NORTH OF RINALDI St NB	8	7	-	-	-
42.38	SHERMAN Way NB RAMPS	3	12	-	-	5
	SHERMAN Way SB RAMPS	3	4	1	-	14
41.37	VICTORY Blvd NB RAMPS	3	4	-	-	15
	VICTORY Blvd SB RAMPS	7	15	-	-	10
TOTAL		25	59	1	-	44

**PULL BOX TABLE - LA ROUTE 170**

Approx PM	LOCATION	No. 5 IN PAVED	No. 5 IN NON-PAVED	No. 6 IN PAVED	No. 6 IN NON-PAVED	No. 9 OR No. 9A
R19.9/ R20.4	ROSCOE Blvd - ROUTE 5 CONNECTOR NB	-	23	-	3	-
	ROUTE 5 CONNECTOR SB- ROSCOE Blvd	-	18	-	1	-
R19.30	STRATHERN St SB ON RAMP	-	3	-	-	10
R19.71	ROSCOE Blvd NB RAMPS	2	25	-	-	1
	ROSCOE Blvd SB RAMPS	-	12	-	-	5
R18.27	SHERMAN Way NB RAMPS	6	33	-	-	-
	SHERMAN Way SB RAMPS	7	17	-	-	-
R17.24	VICTORY Blvd NB RAMPS	2	21	-	-	4
	VICTORY Blvd SB RAMPS	4	22	-	-	2
R16.77	LAUREL CANYON Blvd SB OFF	INCLUDED IN VICTORY Blvd SB RAMPS CIRCUIT				-
R16.61	OXNARD St NB RAMPS	-	5	-	-	2
	OXNARD St SB RAMPS	INCLUDED IN BURBANK Blvd SB RAMPS CIRCUIT				-
R15.97	BURBANK Blvd NB RAMPS	5	17	-	-	-
	BURBANK Blvd SB RAMPS	1	9	-	-	-
R15.36	MAGNOLIA Blvd NB RAMPS	3	10	-	-	-
	MAGNOLIA Blvd SB RAMPS	3	14	-	-	-
R14.85	RIVERSIDE Dr NB RAMPS	5	7	-	-	2
	RIVERSIDE Dr SB RAMPS	5	4	-	-	4
TOTAL		43	240	-	4	30

**PULL BOX TABLE - LA ROUTE 118**

Approx PM	LOCATION	No. 5 IN PAVED	No. 5 IN NON-PAVED	No. 6 IN PAVED	No. 6 IN NON-PAVED	No. 9 OR No. 9A
R14.04	EB Rte 118 TO NB 210 CONNECTOR	-	27	-	-	5
	EB Rte 118 TO SB 210 CONNECTOR	1	11	-	-	-
	NB 210 TO EB Rte 118 CONNECTOR	3	17	-	-	4
	SB 210 TO EB Rte 118 CONNECTOR	-	8	-	-	-
R13.16	GLENOAKS Blvd WB	2	3	-	-	1
R13.02	PAXTON St NB ON/OFF	-	4	-	-	-
R12.38	SAN FERNANDO Rd EB RAMPS	-	12	-	-	6
	SAN FERNANDO Rd WB RAMPS	-	13	-	-	2
R11.45	EB Rte 118 TO NB 5 CONNECTOR	-	7	-	-	1
	EB Rte 118 TO SB 5 CONNECTOR	-	3	-	-	3
	SB 5 TO EB Rte 118 CONNECTOR	1	2	-	-	1
R5.79	RESEDA Blvd EB RAMPS	-	6	-	-	-
	RESEDA Blvd WB RAMPS	-	9	-	-	-
R4.65	TAMPA Ave EB RAMPS	-	4	-	-	-
	TAMPA Ave WB RAMPS	-	11	-	-	-
R3.86	PORTER RANCH Dr EB RAMPS	-	7	-	-	-
	PORTER RANCH Dr WB RAMPS	2	14	-	-	22
R2.67	DE SOTO Ave EB RAMPS	-	22	-	-	3
	DE SOTO Ave WB RAMPS	2	7	-	-	5
R1.79	TOPANGA CANYON Blvd EB RAMPS	-	2	-	-	17
	TOPANGA CANYON Blvd WB RAMPS	1	4	-	-	1
TOTAL		12	198	-	-	72

**MODIFY PULL BOX COVER**

APPROVED FOR ELECTRICAL WORK ONLY

NO SCALE

**E-49**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR YI TSAU  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 QUINCIE TRAN CECILIO BURCIAGA  
 REVISED BY DATE REVISED  
 x  
 x  
 x  
 x  
 x

**NOTE: (THIS SHEET ONLY)**

1. **RC** PULL BOX COVER. INSTALL TAMPER RESISTANT COVER.
2. SEE INFORMATION HANDOUT FOR LOCATION OF AFFECTED PULL BOXES.
3. DO NOT MODIFY COMMUNICATION PULL BOXES.

**PULL BOX TABLE - ROUTE 118**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
EASTBOUND	160+00	W OF NEW LOS ANGELES Ave	2	-
EASTBOUND	172+40	W OF PRINCETON Ave	-	3
WESTBOUND	172+40	W OF PRINCETON Ave	1	-
WESTBOUND	172+40	W OF PRINCETON Ave	-	2
EB / WB	335+60 TO 336+20	W OF COLLINS DRIVE	2	-
WESTBOUND	336+20 TO 338+20	E OF COLLINS Dr OC	-	3
WESTBOUND	335+60 TO 336+20	E OF COLLINS Dr OC	-	3
WESTBOUND	340+40	E OF COLLINS Dr OC	1	-
WESTBOUND	341+00	E OF COLLINS Dr OC	-	1
EB / WB	341+40	E OF COLLINS Dr OC	3	-
EASTBOUND	341+80	E OF COLLINS Dr OC	1	1
EASTBOUND	342+40 TO 343+80	E OF COLLINS Dr OC	3	-
EASTBOUND	344+60 TO 346+20	E OF COLLINS Dr OC	3	-
EASTBOUND	347+00 TO 348+00	E OF COLLINS Dr OC	3	-
EASTBOUND	348+60 TO 349+80	E OF COLLINS Dr OC	3	-
EASTBOUND	350+40 TO 351+60	E OF COLLINS Dr OC	3	-
EASTBOUND	352+20 TO 353+60	E OF COLLINS Dr OC	3	-
EASTBOUND	354+20 TO 355+40	E OF COLLINS Dr OC	3	-
EASTBOUND	356+20 TO 357+40	E OF COLLINS Dr OC	3	-
EASTBOUND	358+00 TO 359+20	E OF COLLINS Dr OC	3	-
EASTBOUND	359+80 TO 360+80	E OF COLLINS Dr OC	3	-
EASTBOUND	375+80 TO 377+00	DUMP SITE ACCESS Road	3	-
EASTBOUND	377+80 TO 379+00	DUMP SITE ACCESS Road	3	-
EASTBOUND	379+80 TO 380+80	MADERA Road	3	-
EASTBOUND	381+40 TO 382+40	MADERA Road	3	-
EASTBOUND	383+60 TO 383+80	MADERA Road	3	-
EASTBOUND	384+00	MADERA Road	2	-
EB / WB	391+00	MADERA Road	3	-
EB / WB	397+00	FIRST Street	2	-
EB / WB	397+00	FIRST Street	-	1
EB / WB	399+00	FIRST Street	-	3
EB / WB	399+00	FIRST Street	2	-
EASTBOUND	404+00	CALDWELL Ave	1	-
WESTBOUND	412+40	ERRINGER Road	-	2
EASTBOUND	413+20	ERRINGER Road	1	-
EB / WB	414+40	ERRINGER Road	1	1
WESTBOUND	415+00	ERRINGER Road	1	-
EASTBOUND	415+80	ERRINGER Road	1	1

**PULL BOX TABLE - ROUTE 118**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
WESTBOUND	422+40	ERRINGER Road	1	-
EB / WB	429+00	SYCAMORE Drive	2	1
EB / WB	431+00	SYCAMORE Drive	2	-
EASTBOUND	431+60	SYCAMORE Drive	1	1
WESTBOUND	438+00	GALENA Ave	1	-
WESTBOUND	444+00	SEQUOIA Ave	-	1
EB / WB	445+60	ARROYO TAPO CHANNEL	1	2
EB / WB	453+00	TAPO CANYON Road	2	2
EASTBOUND	454+00	TAPO CANYON Road	3	-
EB / WB	455+20	TAPO CANYON Road	2	-
EASTBOUND	462+00	TAPO Street	3	-
EB / WB	470+00	KADOTA Street	3	-
WESTBOUND	477+00	STEARNS Street	2	1
EB / WB	478+00	STEARNS Street	2	1
EB / WB	479+00	STEARNS Street	1	1
EB / WB	480+00	STEARNS Street	1	1
WESTBOUND	484+40	STOW Street	1	-
EB / WB	489+00	YOSEMITE Ave	2	1
EB / WB	490+80	YOSEMITE Ave	2	-
WESTBOUND	498+60	COCHRAN Street	1	-
EASTBOUND	500+00	COCHRAN Street	1	-
EASTBOUND	502+00 TO 505+20	KEUHNER Drive	7	-
EB / WB	505 + 60	KEUHNER Drive	4	1
EB / WB	506+20	KEUHNER Drive	5	-
EASTBOUND	506+60 TO 514+20	KEUHNER Drive	12	-
EASTBOUND	514+80 TO 518+80	KEUHNER Drive	7	-
EASTBOUND	536+60	FIRE Road / ROCKY PEAK	1	-
EASTBOUND	7+40 TO 11+20	FIRE Road / ROCKY PEAK	6	-
EASTBOUND	12+00 TO 18+20	IVERSON Rd	10	-
EB / WB	159+80 TO 161+00	NEW LOS ANGELES Ave	9	-
WESTBOUND	338+20	COLLINS Drive	1	4
EB / WB	342+00	COLLINS Drive	7	3
EB / WB	344+60	COLLINS Drive	-	2
EB / WB	360+80	DUMP SITE ACCESS Road	-	2
EB / WB	375+80	DUMP SITE ACCESS Road	-	2
WESTBOUND	479+80	STEARNS Street	6	2
EASTBOUND	502+00	KEUHNER Drive	2	3
EASTBOUND	518+80	FIRE Road / ROCKY PEAK	-	1
EASTBOUND	7+60	FIRE Road / ROCKY PEAK	-	1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA/VEN	101,110,118 170,405	Var	74	102

*Jacqueline C. Tan* 6/24/14  
 REGISTERED ELECTRICAL ENGINEER DATE

8-11-14  
 PLANS APPROVAL DATE

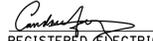
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

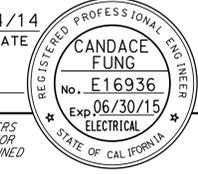
**MODIFY PULL BOX COVER**

**E-50**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,118 170,405	Var	75	102

 6/24/14  
 REGISTERED ELECTRICAL 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.

NOTE: (THIS SHEET ONLY)

1.  RC PULL BOX COVER. INSTALL TAMPER RESISTANT COVER.
2. SEE INFORMATION HANDOUT FOR LOCATIONS OF AFFECTED PULL BOXES.
3. DO NOT MODIFY COMMUNICATION PULL BOXES.

**PULL BOX TABLE - ROUTE 170**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
SOUTHBOUND	101	SOUTH OF RIVERSIDE Dr	1	-
SOUTHBOUND	103	SOUTH OF RIVERSIDE Dr	-	2
SOUTHBOUND	104	SOUTH OF RIVERSIDE Dr	-	1
SOUTHBOUND	111	NORTH OF RIVERSIDE Dr	1	1
SOUTHBOUND	114	NORTH OF RIVERSIDE Dr	-	1
SOUTHBOUND	118	NORTH OF RIVERSIDE Dr	-	1
SOUTHBOUND	123	NORTH OF RIVERSIDE Dr	-	1
SOUTHBOUND	129	SOUTH OF MAGNOLIA Blvd	-	1
SOUTHBOUND	134	SOUTH OF MAGNOLIA Blvd	-	1
NORTHBOUND	135	SOUTH OF MAGNOLIA Blvd	2	-
SOUTHBOUND	135	SOUTH OF MAGNOLIA Blvd	2	-
SOUTHBOUND	137	SOUTH OF MAGNOLIA Blvd	-	1
SOUTHBOUND	139	NORTH OF MAGNOLIA Blvd	1	1
SOUTHBOUND	145	SOUTH OF CHANDLER Blvd	-	2
SOUTHBOUND	147	SOUTH OF CHANDLER Blvd	1	1
SOUTHBOUND	150	SOUTH OF CHANDLER Blvd	-	1
SOUTHBOUND	154	NORTH OF CHANDLER Blvd	-	1
SOUTHBOUND	160	NORTH OF CHANDLER Blvd	-	1
SOUTHBOUND	164	SOUTH OF BURBANK Blvd	-	1
SOUTHBOUND	167	SOUTH OF BURBANK Blvd	-	1
SOUTHBOUND	168	SOUTH OF BURBANK Blvd	-	1
SOUTHBOUND	169	SOUTH OF BURBANK Blvd	1	-
SOUTHBOUND	170	SOUTH OF BURBANK Blvd	-	1
SOUTHBOUND	170	NORTH OF BURBANK Blvd	1	-
SOUTHBOUND	173	NORTH OF BURBANK Blvd	-	1
SOUTHBOUND	176	NORTH OF BURBANK Blvd	-	2
SOUTHBOUND	179	NORTH OF BURBANK Blvd	1	1
SOUTHBOUND	184	NORTH OF BURBANK Blvd	-	1
SOUTHBOUND	190	NORTH OF BURBANK Blvd	-	1
SOUTHBOUND	195	SOUTH OF OXNARD St	-	1

**PULL BOX TABLE - ROUTE 170 (CONT.)**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
NORTHBOUND	200	SOUTH OF OXNARD St	1	3
NORTHBOUND	201	SOUTH OF OXNARD St	4	-
SOUTHBOUND	201	SOUTH OF OXNARD St	-	1
NORTHBOUND	202	SOUTH OF OXNARD St	1	-
SOUTHBOUND	202	SOUTH OF OXNARD St	3	-
SOUTHBOUND	203	SOUTH OF OXNARD St	1	1
SOUTHBOUND	205	NORTH OF OXNARD St	-	1
SOUTHBOUND	209	SOUTH OF LAUREL CANYON	-	1
SOUTHBOUND	213	NORTH OF LAUREL CANYON	-	1
SOUTHBOUND	215	NORTH OF LAUREL CANYON	-	2
SOUTHBOUND	218	NORTH OF LAUREL CANYON	1	1
SOUTHBOUND	220	NORTH OF LAUREL CANYON	-	1
SOUTHBOUND	226	SOUTH OF VICTORY Blvd	-	1
NORTHBOUND	231	SOUTH OF VICTORY Blvd	2	-
SOUTHBOUND	231	SOUTH OF VICTORY Blvd	1	-
SOUTHBOUND	232	SOUTH OF VICTORY Blvd	-	1
SOUTHBOUND	234	SOUTH OF VICTORY Blvd	1	-
SOUTHBOUND	236	SOUTH OF VICTORY Blvd	-	1
SOUTHBOUND	238	NORTH OF VICTORY Blvd	1	1
SOUTHBOUND	239	NORTH OF VICTORY Blvd	-	1
SOUTHBOUND	243	NORTH OF VICTORY Blvd	-	1
SOUTHBOUND	246	NORTH OF VICTORY Blvd	-	2
SOUTHBOUND	250	SOUTH OF VANOWEN St	-	1
SOUTHBOUND	256	SOUTH OF VANOWEN St	-	1
SOUTHBOUND	262	SOUTH OF VANOWEN St	1	1
SOUTHBOUND	263	SOUTH OF VANOWEN St	-	1
SOUTHBOUND	265	NORTH OF VANOWEN St	-	1
SOUTHBOUND	269	NORTH OF VANOWEN St	-	1
SOUTHBOUND	273	NORTH OF VANOWEN St	-	1
SOUTHBOUND	279	SOUTH OF SHERMAN Way	-	1

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFY PULL BOX COVER**

**E-51**

NOTE: (THIS SHEET ONLY)

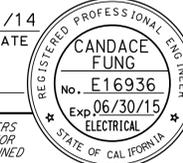
1. [RC] PULL BOX COVER. INSTALL TAMPER RESISTANT COVER.
2. SEE INFORMATION HANDOUT FOR LOCATIONS OF AFFECTED PULL BOXES.
3. DO NOT MODIFY COMMUNICATION PULL BOXES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,118 170,405	Var	76	102

 5/24/14  
 REGISTERED ELECTRICAL 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.



**PULL BOX TABLE - ROUTE 170 (CONT.)**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
SOUTHBOUND	285	SOUTH OF SHERMAN Way	-	2
NORTHBOUND	285	SOUTH OF SHERMAN Way	2	-
SOUTHBOUND	286	SOUTH OF SHERMAN Way	1	-
SOUTHBOUND	287	SOUTH OF SHERMAN Way	1	-
SOUTHBOUND	291	NORTH OF SHERMAN Way	-	1
SOUTHBOUND	292	NORTH OF SHERMAN Way	1	-
SOUTHBOUND	294	NORTH OF SHERMAN Way	1	-
SOUTHBOUND	295	NORTH OF SHERMAN Way	-	1
SOUTHBOUND	296	NORTH OF SHERMAN Way	-	1
SOUTHBOUND	297	NORTH OF SHERMAN Way	1	-
SOUTHBOUND	300	NORTH OF SHERMAN Way	-	1
SOUTHBOUND	304	SOUTH OF WHITSETT Ave	-	1
SOUTHBOUND	305	SOUTH OF WHITSETT Ave	2	-
NORTHBOUND	306	SOUTH OF WHITSETT Ave	1	-
SOUTHBOUND	306	SOUTH OF WHITSETT Ave	2	1
SOUTHBOUND	307	SOUTH OF WHITSETT Ave	-	1
SOUTHBOUND	315	NORTH OF WHITSETT Ave	1	1
NORTHBOUND	316	NORTH OF WHITSETT Ave	1	-
SOUTHBOUND	321	NORTH OF WHITSETT Ave	-	1
SOUTHBOUND	326	NORTH OF WHITSETT Ave	-	1
SOUTHBOUND	335	SOUTH OF STRATHERN St	2	1
NORTHBOUND	335	SOUTH OF STRATHERN St	1	-
SOUTHBOUND	336	SOUTH OF STRATHERN St	-	1
SOUTHBOUND	337	SOUTH OF STRATHERN St	1	-
SOUTHBOUND	338	SOUTH OF STRATHERN St	-	1
SOUTHBOUND	340	SOUTH OF STRATHERN St	1	-
SOUTHBOUND	342	SOUTH OF STRATHERN St	1	-
SOUTHBOUND	343	SOUTH OF STRATHERN St	1	-
SOUTHBOUND	344	SOUTH OF STRATHERN St	1	1
SOUTHBOUND	346	NORTH OF STRATHERN St	-	1

**PULL BOX TABLE - ROUTE 170 (CONT.)**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
SOUTHBOUND	352	NORTH OF STRATHERN St	-	1
SOUTHBOUND	356	NORTH OF STRATHERN St	-	1
NORTHBOUND	362	SOUTH OF ROSCOE Blvd	1	-
SOUTHBOUND	362	SOUTH OF ROSCOE Blvd	2	-
SOUTHBOUND	363	SOUTH OF ROSCOE Blvd	1	2
SOUTHBOUND	366	SOUTH OF ROSCOE Blvd	-	1
SOUTHBOUND	368	NORTH OF ROSCOE Blvd	1	-
SOUTHBOUND	369	NORTH OF ROSCOE Blvd	-	1
SOUTHBOUND	371	NORTH OF ROSCOE Blvd	2	2
SOUTHBOUND	376	NORTH OF ROSCOE Blvd	1	3
SOUTHBOUND	381	NORTH OF ROSCOE Blvd	-	1
SB TO EB	8	SB ROUTE 170 TO EB ROUTE 134	2	-
SB TO EB	9	SB ROUTE 170 TO EB ROUTE 134	1	-
SB TO EB	10	SB ROUTE 170 TO EB ROUTE 134	4	1

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFY PULL BOX COVER**

**E-52**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 OFFICE OF ITS  
 FUNCTIONAL SUPERVISOR  
 JACQUELINE C. TAN  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 CANDACE FUNG  
 JACQUELINE C. TAN  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,118 170,405	Var	77	102

*Jacqueline C. Tan* 6/24/14  
 REGISTERED ELECTRICAL 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.

**NOTE: (THIS SHEET ONLY)**

1.  RC PULL BOX COVER. INSTALL TAMPER RESISTANT COVER.
2. SEE INFORMATION HANDOUT FOR LOCATIONS OF AFFECTED PULL BOXES.
3. DO NOT MODIFY COMMUNICATION PULL BOXES.

**PULL BOX TABLE - ROUTE 405**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
SOUTHBOUND	663	SOUTH OF FIGUEROA St	1	-
NORTHBOUND	663	NORTHBOUND 405 CONNECTOR TO SOUTHBOUND 110	3	-
NORTHBOUND	670	NORTHBOUND 405 CONNECTOR TO 110	6	1
NORTHBOUND	636	NORTHBOUND 110 CONNECTOR TO NORTHBOUND 405	2	-
NORTHBOUND	640	NORTHBOUND 110 CONNECTOR TO NORTHBOUND 405	4	1
SOUTHBOUND	685	SOUTHBOUND 405	4	1
NORTHBOUND	683	NORTHBOUND 405	2	1
SOUTHBOUND	650	SOUTH OF BURBANK Blvd	6	-
NORTHBOUND	650	NORTH OF BURBANK Blvd	2	-
NORTHBOUND	55	SOUTH OF BURBANK Blvd	4	1
NORTHBOUND	55	NORTH OF BURBANK Blvd	4	1
SOUTHBOUND	75	SOUTH OF BURBANK Blvd	1	-
NORTHBOUND	75	NORTH OF BURBANK Blvd	7	2
SOUTHBOUND	110	SOUTH OF VICTORY Blvd	2	-
SOUTHBOUND	115	SOUTH OF VICTORY Blvd	2	2
SOUTHBOUND	115	NORTH OF VICTORY Blvd	2	1
SOUTHBOUND	120	SOUTH OF VICTORY Blvd	2	-
SOUTHBOUND	130	SOUTH OF VICTORY Blvd	1	1
SOUTHBOUND	165	SOUTH OF SHERMAN WAY	-	6
SOUTHBOUND	165	NORTH OF SHERMAN WAY	3	1
SOUTHBOUND	175	SOUTH OF SHERMAN WAY	-	2
SOUTHBOUND	240	SOUTH OF ROSCOE Blvd	2	1
NORTHBOUND	240	NORTH OF ROSCOE Blvd	1	2
SOUTHBOUND	250	SOUTH OF CHASE St	1	1
SOUTHBOUND	265	SOUTH OF PARTHENIA St	-	1
SOUTHBOUND	279	SOUTH OF RAYEN St	-	1
SOUTHBOUND	290	SOUTH OF NORDHOFF St	-	3
NORTHBOUND	290	NORTH OF NORDHOFF St	2	1
NORTHBOUND	279	NORTH OF NORDHOFF St	4	3
SOUTHBOUND	315	SOUTH OF PLUMMER St	-	2
SOUTHBOUND	344	SOUTH OF LASSEN St	3	3
NORTHBOUND	344	NORTH OF LASSEN St	1	-

**PULL BOX TABLE - ROUTE 405**

DIRECTION	STATION	DESCRIPTION OF LOCATION	No. 5/5(T)	No. 6/6(T)
SOUTHBOUND	330	SOUTH OF LASSEN St	3	1
NORTHBOUND	336	SOUTH OF LASSEN St	4	2
SOUTHBOUND	370	SOUTH OF DEVONSHIRE St	2	5
NORTHBOUND	370	NORTH OF DEVONSHIRE St	3	1
NORTHBOUND	367	NORTH OF DEVONSHIRE St	8	2
NORTHBOUND	374	NORTH OF DEVONSHIRE St	7	-
NORTHBOUND	377	NORTH OF DEVONSHIRE St	4	1
SOUTHBOUND	395	NORTH OF DEVONSHIRE St	-	2
SOUTHBOUND	405	SOUTH OF ROUTE 405	-	2
NORTHBOUND	400	ROUTE 405 CONNECTOR TO ROUTE 118	2	2
SOUTHBOUND	415	SOUTH OF SAN FERNANDO MISSION Rd	-	1
SOUTHBOUND	422	SOUTH OF SAN FERNANDO MISSION Rd	-	1
NORTHBOUND	426	SOUTH OF SAN FERNANDO MISSION Rd	-	4

APPROVED FOR ELECTRICAL WORK ONLY

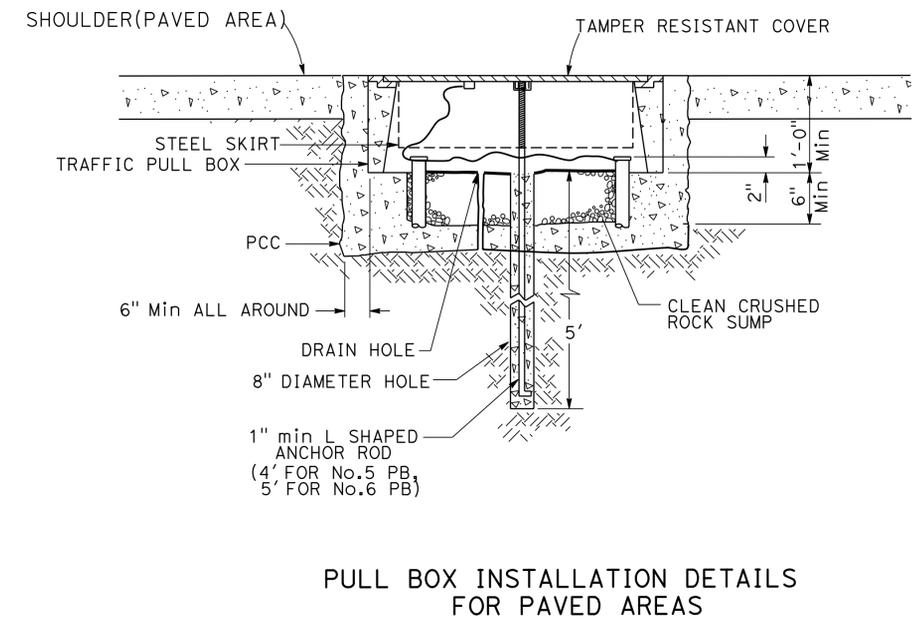
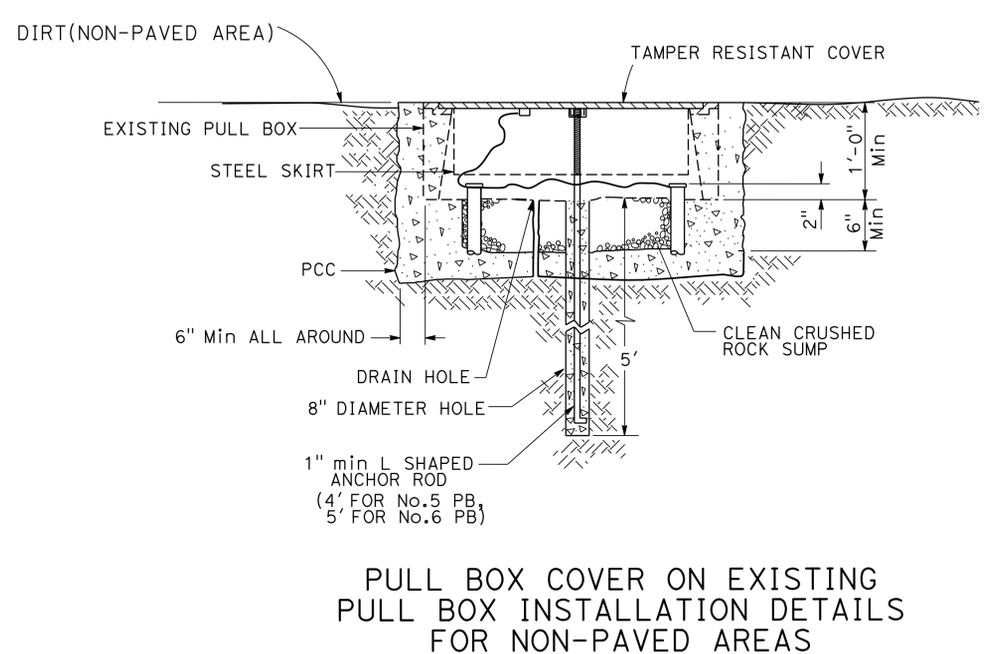
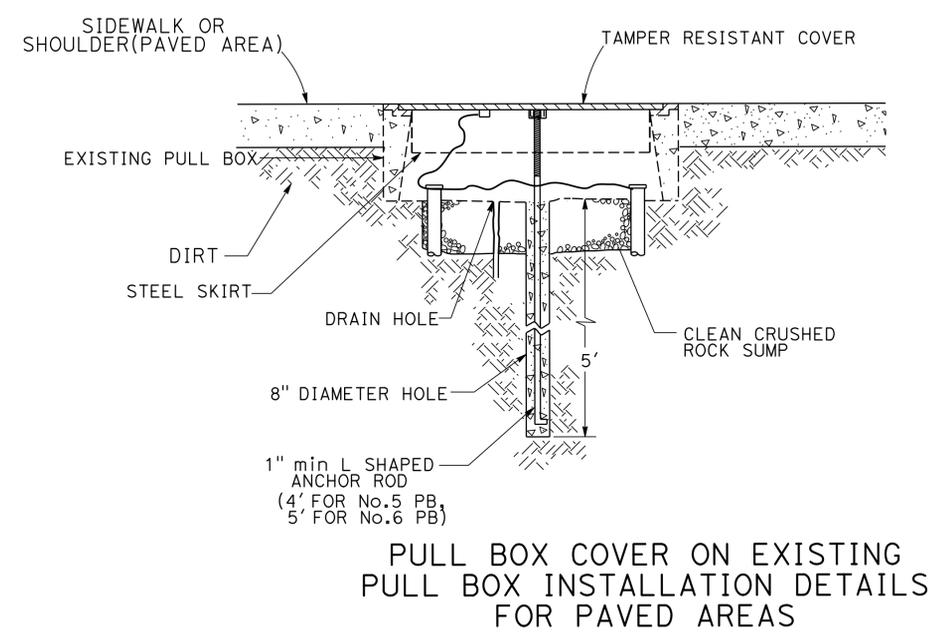
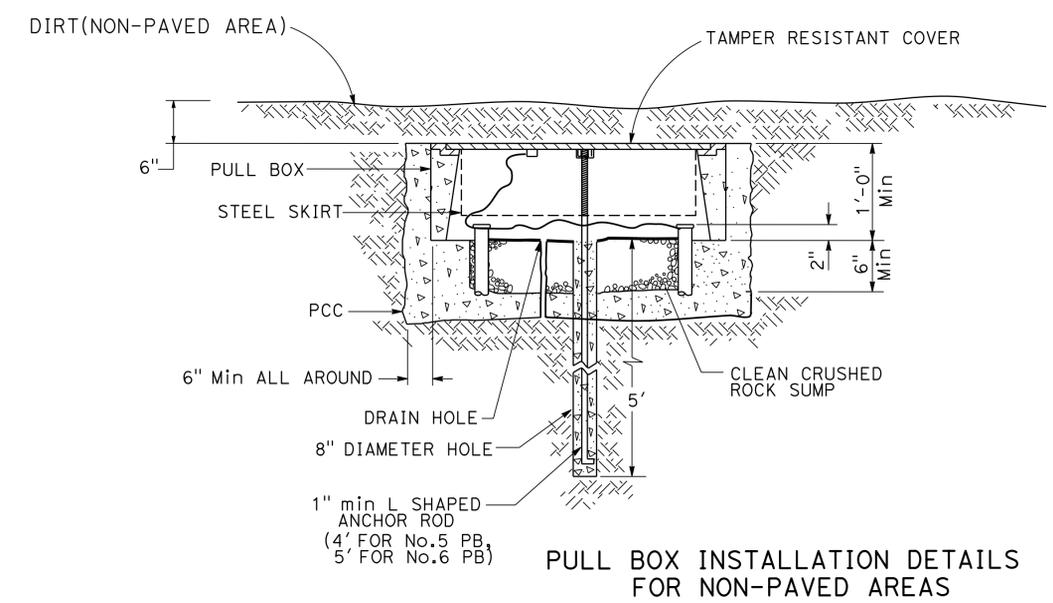
**MODIFY PULL BOX COVER**

**E-53**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OFFICE OF ITS  
 FUNCTIONAL SUPERVISOR JACQUELINE C. TAN  
 BOB TIEU JACQUELINE C. TAN  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	78	102
REGISTERED ELECTRICAL ENGINEER			DATE	6/24/14	
CECILIO BURCIAGA			No. E015302		
Exp. 3-31-15			ELECTRICAL		
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: THIS SHEET  
1. FOR EXISTING PULL BOXES IN PAVED AREA, ONLY REPLACE COVER WITH THE TAMPER RESISTANT COVER.



**(TAMPER RESISTANT PULL BOX INSTALLATION DETAILS)**

**ELECTRICAL DETAILS**  
NO SCALE

**E-54**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans** TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
YI TSAU

CALCULATED-DESIGNED BY  
CHECKED BY

CECILIO BURCIAGA  
JESUS RUELAS

REVISED BY  
DATE REVISED

x

x

x

x

x

x  
x  
x  
x  
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OFFICE OF ITS  
 FUNCTIONAL SUPERVISOR  
 JACQUELINE C. TAN  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 HENRY TRINH  
 JACQUELINE C. TAN  
 REVISED BY  
 DATE REVISED  
 HT  
 06/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101, 110, 170 118, 405	Var	79	102

*Jacqueline C. Tan* 6/24/14  
 REGISTERED ELECTRICAL 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.

**ABBREVIATIONS: (SHEETS E-56 THROUGH E-59)**

#	NUMBER
6P22	6 PAIR 22 AWG TWISTED SHIELDED CABLE
6P18	6 PAIR 18 AWG TWISTED SHIELDED CABLE
24P18	24 PAIR 18 AWG TWISTED SHIELDED CABLE

**LEGEND: (SHEETS E-56 TO E-57)**

EXISTING

	CMS CMS CONTROLLER CABINET
	S SPLICE VAULT WITH SPLICE CLOSURE

**GENERAL NOTES: (E-56 THROUGH E-59)**

- NUMBER OF CONDUITS IN SOME COMMUNICATION RUNS MAY NOT BE SHOWN FOR CLARITY. THE CONTRACTOR MUST REROUTE IMPACTED CONDUITS AND REPLACE ITS CONTENTS AS NOTED ON THE PLANS.

**MODIFY CHANGEABLE MESSAGE SIGN**

**(ABBREVIATIONS, LEGEND AND NOTES)**

**E-55**

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION  
 06-26-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	Var	Var	80	102

<i>Jacqueline C. Tan</i>	6/24/14
REGISTERED ELECTRICAL ENGINEER	DATE
8-11-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
 JACQUELINE C. TAN  
 No. E015611  
 Exp 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA

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

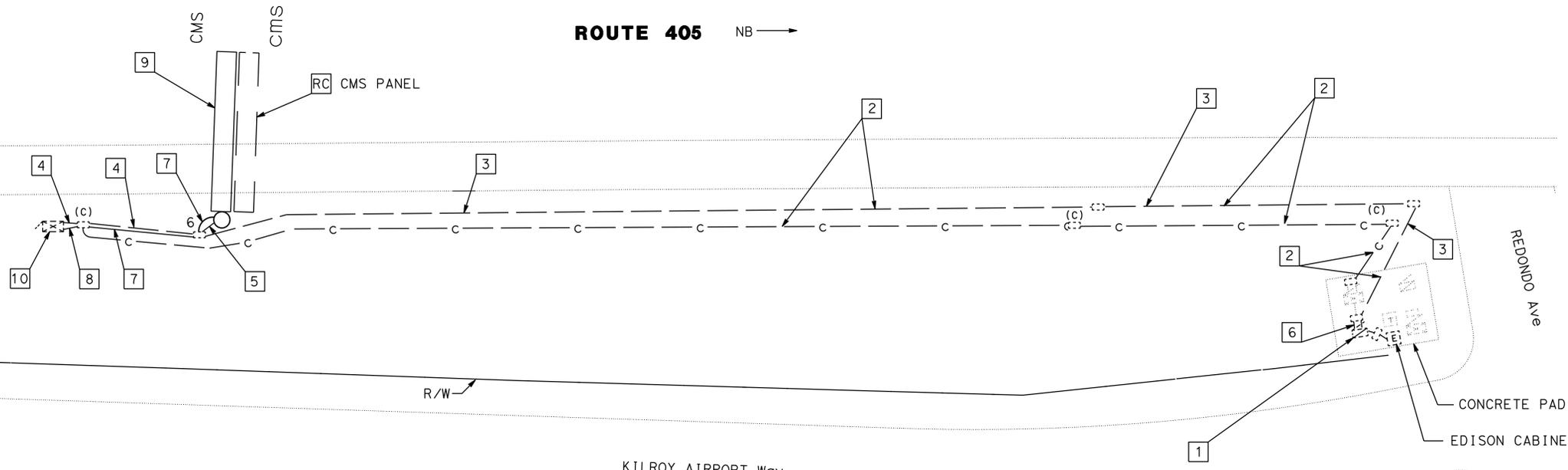


**NOTES: (THIS SHEET ONLY)**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES SEE SHEET E-55.

**LEGEND: (THIS SHEET ONLY)**

- |   |  |
|---|--|
| <p><b>1</b> EXISTING 120/240V, 3 WIRE TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH:<br/>         (1) 100A, 240V, 4P, CB - MAIN.<br/>         (1) 40A, 120V, 1P, CB - TMS.<br/>         (1) 30A, 120V, 1P, CB - CMS CONTROLLER.<br/>         ADD:<br/>         (1) 30A, 240V, 2P, CB - CMS PANEL.<br/>         REMOVE:<br/>         (1) 30A, 120V, 1P, CB - CMS CONTROLLER.<br/>         CtId: 07-53-405-0-003.766<br/>         Address: 2838 1/2 REDONDO Ave</p> <p><b>2</b> EXISTING CONDUITS ARE IN THE SAME TRENCH AND ARE SHOWN FOR REFERENCE ONLY.</p> | <p><b>3</b> EXISTING 3"C, <b>RC</b> 6#2/0, 2#4. ADD 5#6, 1#8 (G).</p> <p><b>4</b> EXISTING 2"C, <b>RC</b> 2#4. ADD 2#6, 1#8 (G).</p> <p><b>5</b> EXISTING 3"C, <b>RC</b> 6#1/0, 1#4 (G). ADD 3#6, 1#8 (G).</p> <p><b>6</b> EXISTING 3"C, <b>RC</b> 6#2/0 AND 2#4 FOR CMS. ADD 3#6, 1#8 (G). EXISTING 2"C, 2#8 FOR TRAFFIC MONITORING STATION.</p> <p><b>7</b> EXISTING 3"C, <b>RC</b> 6P18 AND 24P18 CMS CONTROL CABLES. ADD DEPARTMENT-FURNISHED CMS CONTROL CABLES.</p> <p><b>8</b> EXISTING 3"C, 6P22, <b>RC</b> 6P18 AND 24P18 CMS CONTROL CABLES. ADD DEPARTMENT-FURNISHED CMS CONTROL CABLES.</p> <p><b>9</b> INSTALL DEPARTMENT-FURNISHED MODEL 500 LED CMS PANEL ON EXISTING CMS SIGN STRUCTURE.</p> <p><b>10</b> <b>RC</b> CMS CONTROL CABLES. ADD DEPARTMENT-FURNISHED CMS CONTROL CABLES.</p> |
|---|--|



**CMS No. 38, PM 3.7**

**MODIFY CHANGEABLE MESSAGE SIGN**

**(CMS No. 38)**

SCALE: 1" = 20'

**E-56**

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - OFFICE OF ITS  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN  
 CHECKED BY: HENRY H. TRINH  
 REVISIONS: HT 06/14  
 DESIGNED BY: JACQUELINE C. TAN  
 DATE REVISION: 06/14

DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43  
 LAST REVISION  
 06-26-14



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

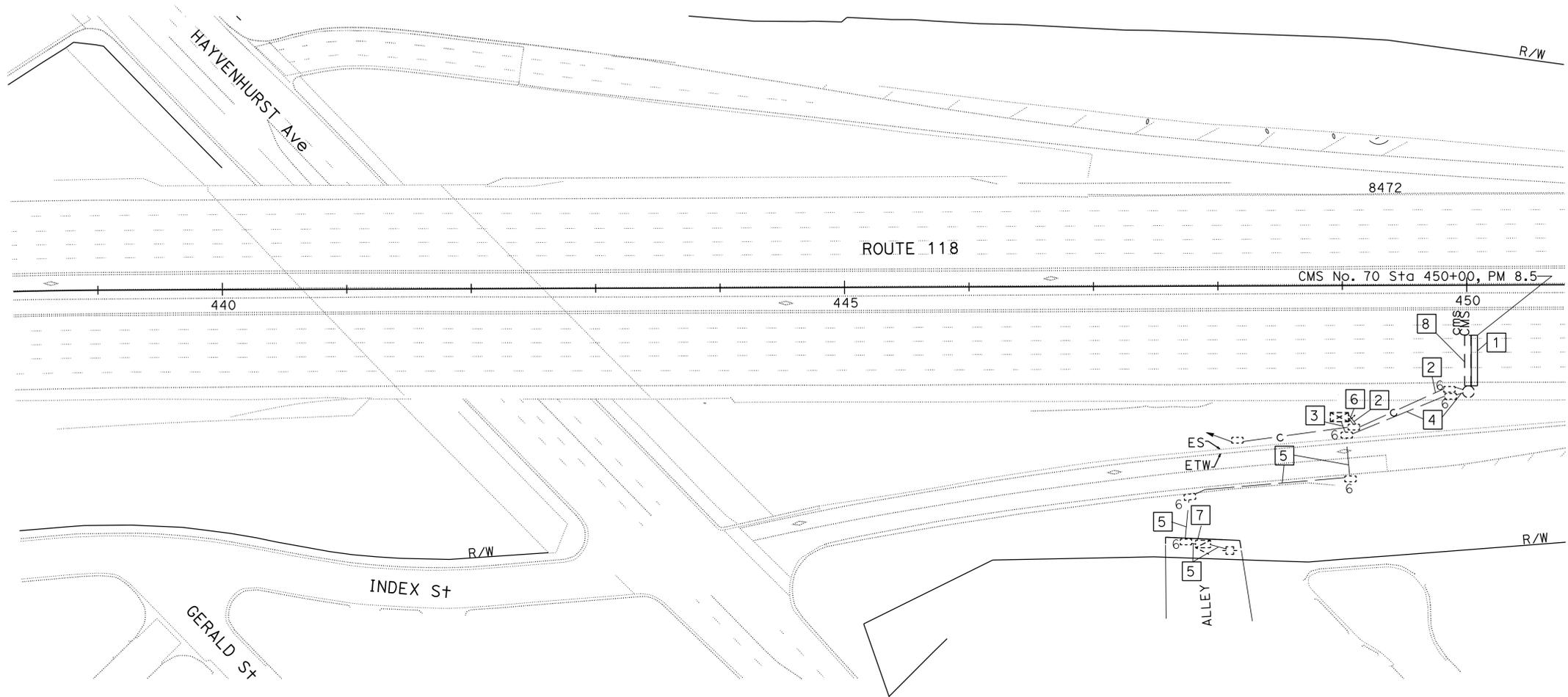
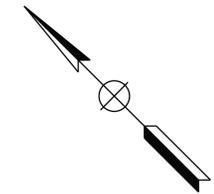
**LEGEND: (THIS SHEET ONLY)**

- 1 INSTALL DEPARTMENT-FURNISHED MODEL 500 LED CMS PANEL ON EXISTING SIGN STRUCTURE.
- 2 Exist 3"C, RC CMS CONTROL CABLES. ADD DEPARTMENT-FURNISHED CMS CONTROL CABLES.
- 3 Exist 3"C, ADD 2#8 (CMS CONTROLLER), 1#8 (G).
- 4 Exist 4"C, RC CONDUCTORS. ADD 4#2, 1#8 (G).
- 5 Exist 4"C, RC CONDUCTORS. ADD 4#2, 2#8,1#8 (G).
- 6 Exist 2-3"C, RC CMS CONTROL CABLES. ADD DEPARTMENT-FURNISHED CMS CONTROL CABLES.
- 7 Exist 120-240 V, TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH:  
1 - Exist 240 V, 200A, 2P MAIN CIRCUIT BREAKER  
ADD:  
1 - 240 V, 30A, 2P CIRCUIT BREAKER FOR CMS PANEL  
1 - 120 V, 30A, 1P CIRCUIT BREAKER FOR CMS CONTROLLER  
REMOVE:  
4 - 120 V, 80A, 1P CIRCUIT BREAKER FOR CMS PANEL  
1 - 120 V, 30A, 1P CIRCUIT BREAKER FOR CMS CONTROLLER  
Ctid Address: #53-118-0-008.459  
11148 1/2, HAYVENHURST Ave
- 8 RC CMS PANEL ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
7	LA, Ven	101,110,118 170,405	Var	82	102

*Jacqueline C. Tan* 6/24/14  
 REGISTERED ELECTRICAL 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.

REGISTERED PROFESSIONAL ENGINEER  
 JACQUELINE C. TAN  
 No. E15611  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA



**NOTE: (THIS SHEET ONLY)**

- 1. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- 2. FOR WIRING DIAGRAM SEE SHEET E-60.
- 3. FOR ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-55.

**MODIFY CHANGEABLE MESSAGE SIGN**

SCALE 1" = 50'

**(CMS No. 70, PM 8.5)**  
APPROVED FOR ELECTRICAL WORK ONLY

**E-58**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - OFFICE OF ITS  
 HOSAKERE ANANTH  
 JACQUELINE C. TAN  
 JACQUELINE C. TAN  
 JACQUELINE C. TAN  
 JACQUELINE C. TAN

REVISIONS  
 REVISION NO. DATE BY

CALCULATED-DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - OFFICE OF ITS  
 JACQUELINE C. TAN

LAST REVISION    DATE PLOTTED => 12-SEP-2014    TIME PLOTTED => 09:43

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

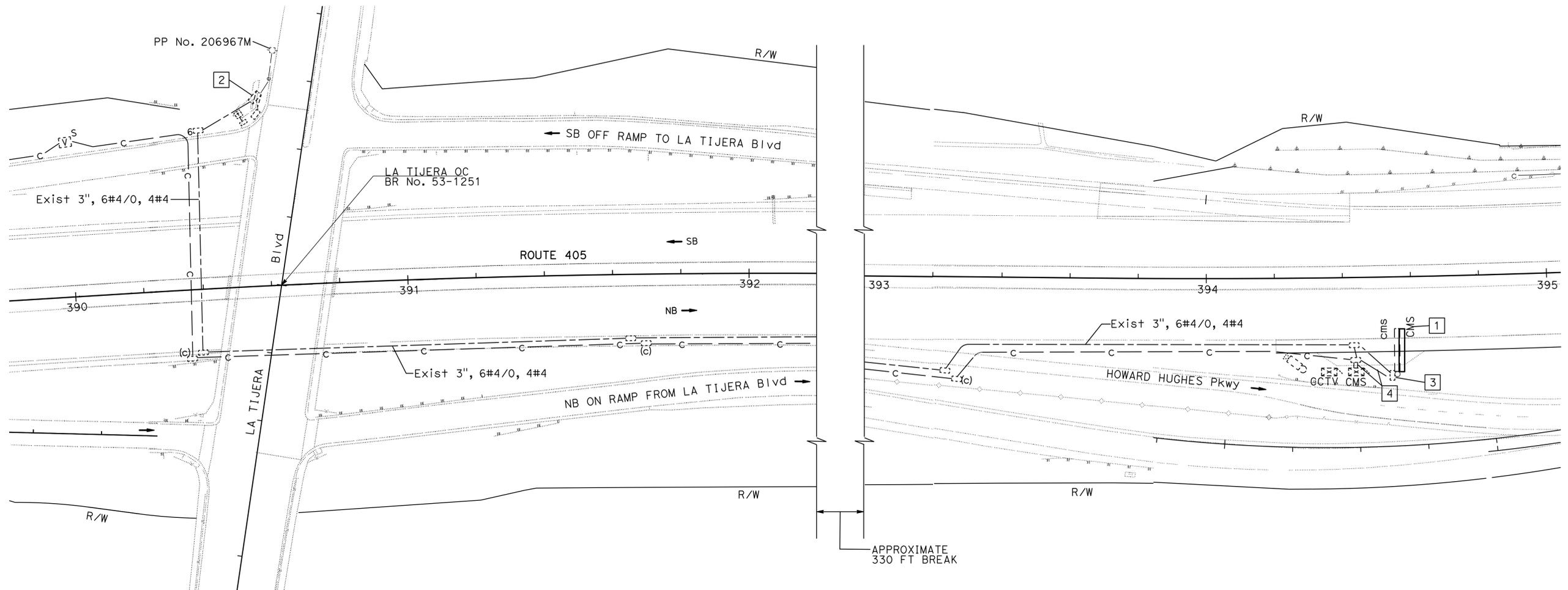
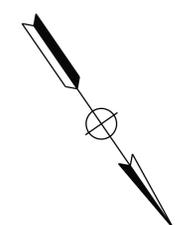
**LEGEND: (THIS SHEET ONLY)**

- 1 RC CMS PANEL. INSTALL DEPARTMENT-FURNISHED MODEL 500 LED CMS PANEL ON EXISTING SIGN STRUCTURE.
- 2 EXISTING 120 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH:  
1-100 A, 240 V, 2P, CB - MAIN  
1-50 A, 240 V, 2P, CB - LIGHTING  
1-40 A, 240 V, 2P, CB - SIGN  
ADD:  
1-30 A, 240 V, 2P, CB - CMS PANEL  
REMOVE:  
2-40 A, 240 V, 2P, CB - CMS PANEL  
Ctid No. 07-053-405-0-R039.042 KP  
ADDRESS: 7360 1/2 LA TIJERA Blvd
- 3 RECONNECT THE EXISTING POWER CONDUCTORS TO THE NEW LED CMS PANEL.
- 4 EXISTING 3" C, RC CMS CONTROL CABLES. ADD DEPARTMENT-FURNISHED CMS CONTROL CABLES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,110,118 170,405	Var	83	102

*Jacqueline C. Tan* 6/24/14  
 REGISTERED ELECTRICAL 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.

REGISTERED PROFESSIONAL ENGINEER  
 JACQUELINE C. TAN  
 No. E015611  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA



**NOTES: (THIS SHEET ONLY)**

- 1. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
- 2. FOR WIRING DIAGRAM SEE SHEET E-60.
- 3. FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES SEE SHEET E-55.

**MODIFY CHANGEABLE MESSAGE SIGN**

SCALE: 1"=50'

**(CMS No. SD245)**

APPROVED FOR ELECTRICAL WORK ONLY

**E-59**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - OFFICE OF ITS  
 HIEU LUU  
 JACQUELINE C. TAN  
 JACQUELINE C. TAN  
 JACQUELINE C. TAN

LAST REVISION    DATE PLOTTED => 12-SEP-2014    TIME PLOTTED => 09:43  
 06-09-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,118 170,405	Var	84	102

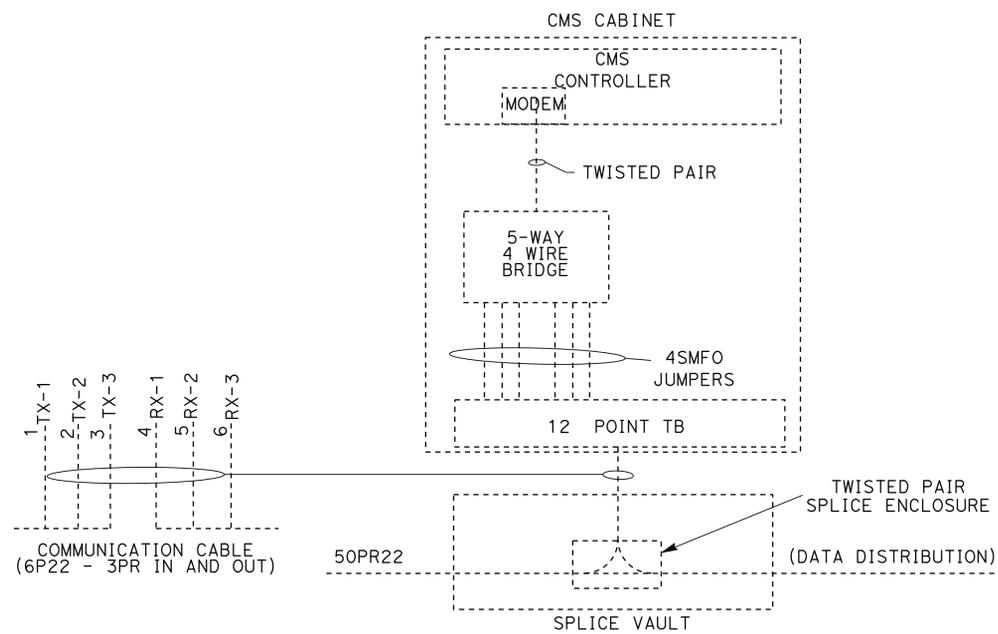
  

REGISTERED ELECTRICAL ENGINEER	DATE
<i>Jacqueline C. Tan</i>	6/9/14
PLANS APPROVAL DATE	
8-11-14	

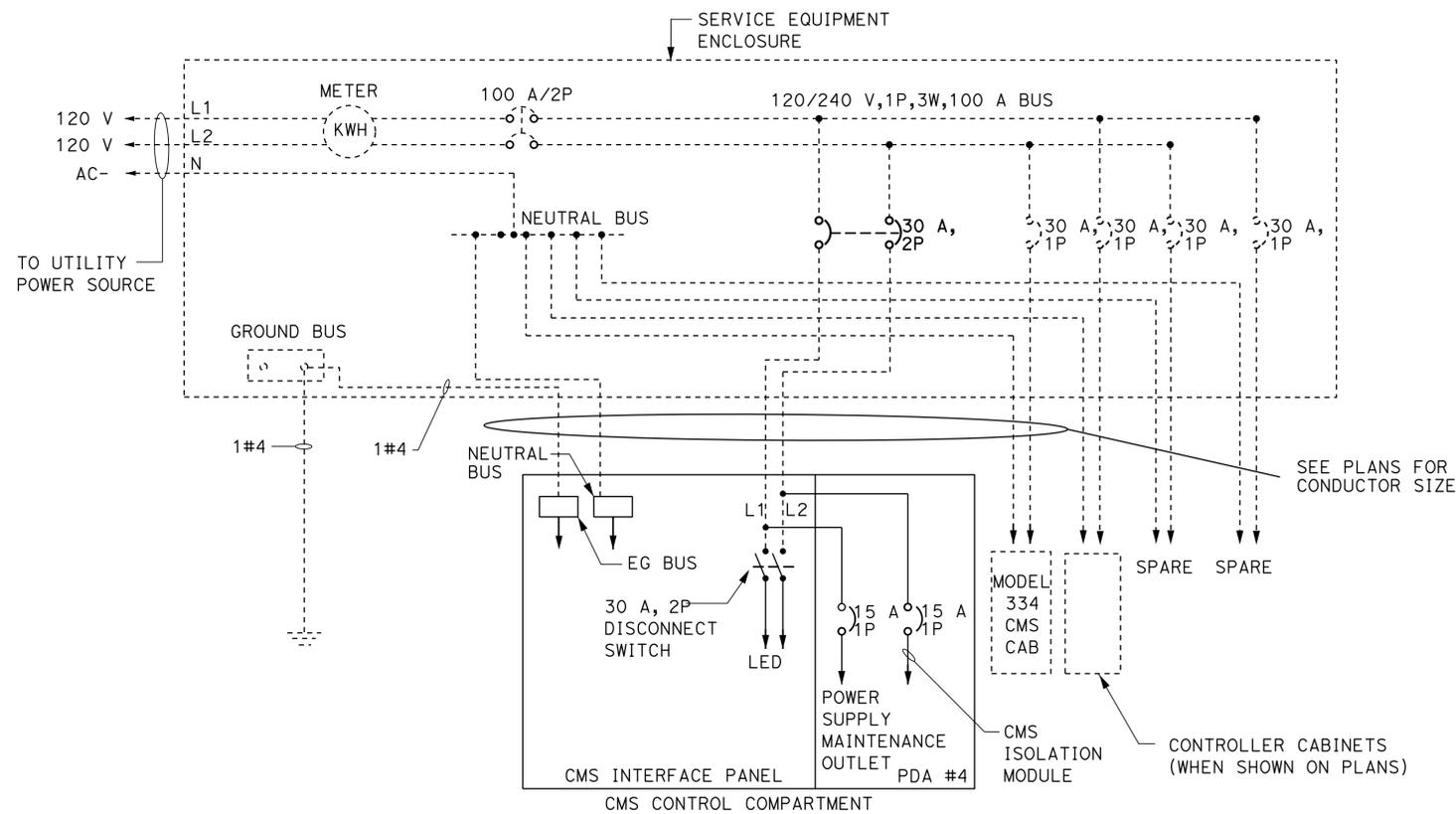
  

REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
No. E015611
Exp. 12/31/15
ELECTRICAL
STATE OF CALIFORNIA

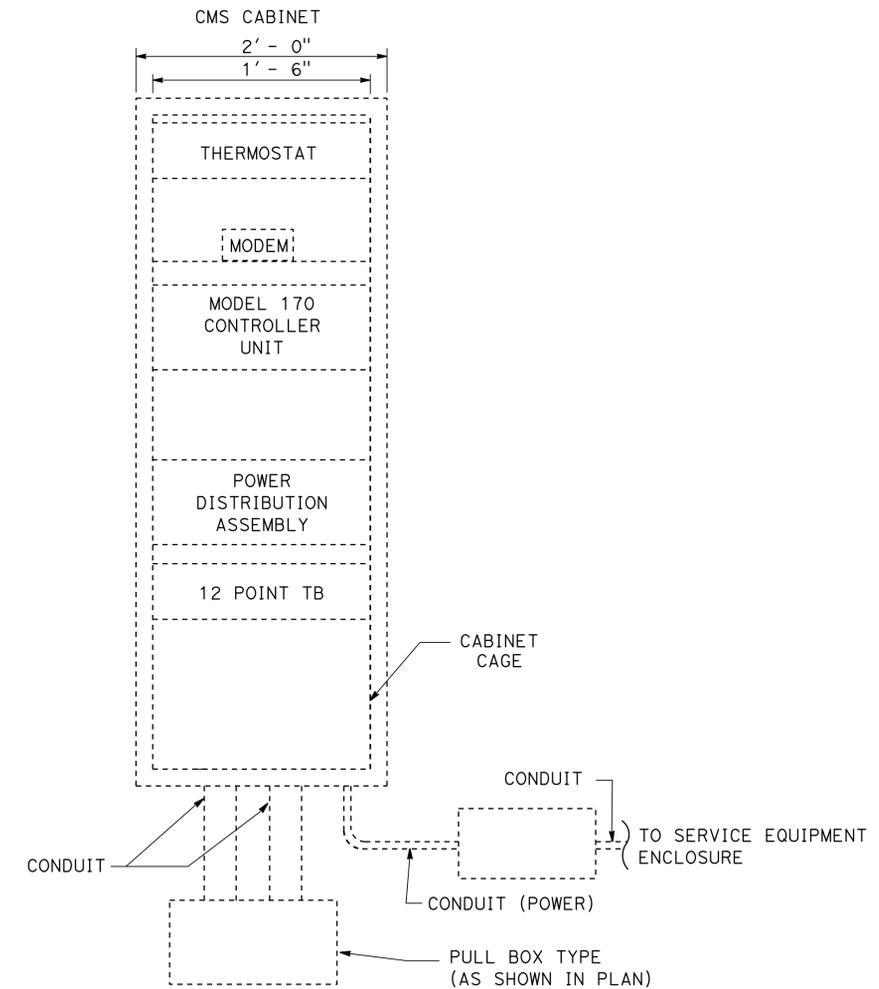
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**MODEL 334 CMS CONTROLLER CABINET**



**TYPICAL CMS 500 LED SYSTEM AC WIRING AND CIRCUIT BREAKER**



**CMS CONTROLLER CABINET EQUIPMENT MOUNTING DETAILS**

**(WIRING DETAILS)**

FOR ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-55

**ELECTRICAL DETAILS**  
NO SCALE  
**E-60**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - OFFICE OF ITS  
*Caltrans*

REVISOR  
 HOSAKERE K. ANANTH  
 JACQUELINE C. TAN

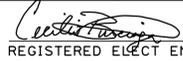
DESIGNER  
 HOSAKERE K. ANANTH  
 JACQUELINE C. TAN

CHECKED BY  
 JACQUELINE C. TAN

FUNCTIONAL SUPERVISOR  
 JACQUELINE C. TAN

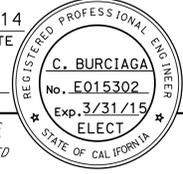
DATE PLOTTED => 12-SEP-2014  
 TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118	Var	85	102

 6/24/14  
 REGISTERED ELECT 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.



**NOTE: (THIS SHEET ONLY)**

1. ITEMS SHOWN IN TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

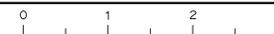
**MODIFY LIGHTING AND SIGN ILLUMINATION**

SHEET No.	T15 (EA)	T30 (EA)	PB-9 PB-9A SECURITY LID (EA)	PB-5 (EA)	PB-6 (EA)	SC2 (EA)	SOFFIT (EA)	LUM (EA)	2" C (LF)	3" C (LF)	3" C RISER (EA)	#4 (LF)	#6 (LF)	#8 (LF)	#8 (G) (LF)	ISL (EA)	TIII-BF (EA)
E-1	—	9	—	14	—	—	—	—	1300	80	1	—	2790	—	1310	—	1
E-2	—	2	—	16	—	1	4	—	2417	35	1	—	4834	962	2835	2	1
E-3	—	5	—	7	—	1	—	—	900	—	—	—	1800	—	900	1	—
E-4	—	5	7	7	—	—	7	6	700	—	—	—	4626	—	2375	—	—
E-5	—	8	12	7 7-(P)	1	—	—	8	1250	30	1	—	9810	—	3280	—	1
E-6	—	7	1	9 1-(P)	1 1-(P)	—	—	1	1975	120	2	—	4336	—	2100	—	2
E-7	—	—	—	2	—	—	25	—	225	—	—	—	2014	—	1210	—	—
E-8	2	11	6	25	2	2	—	3	3190	30	1	—	7406	—	3703	3	2
E-9	—	6	—	7	—	—	—	—	1163	—	—	—	2326	—	1163	—	—
E-10	—	—	4	3 1-(P)	—	—	—	3	272	—	—	—	544	—	604	—	—
E-11	—	1	—	7 1-(P)	—	—	—	—	181	—	—	—	362	—	181	—	—
E-12	—	5	—	8	1	1	—	—	1572	—	—	—	3144	—	1572	2	—
E-13	—	6	—	11	—	1	—	6	1500	—	—	—	3400	—	1700	2	—
E-14	—	1	4	19 6-(P)	1-(P)	—	—	1	3987	—	—	—	8768	—	4384	—	2
E-15	—	—	11	1 3-(P)	—	2	—	6	606	—	—	—	3928	—	1964	4	—
E-16	—	—	10	5-(P)	—	1	—	6	—	—	—	—	4606	—	2303	4	—
E-17	—	—	15	11 5-(P)	—	1	—	4	2182	—	2	—	6048	—	3024	4	2
E-18	—	17	7	21 4-(P)	1 1-(P)	—	—	22	3200	400	2	3200	4000	—	4000	—	2
E-19	—	1	15	4 4-(P)	1	—	—	13	500	200	1	—	6000	—	3000	—	1
E-20	—	—	9	—	—	—	2	7	—	—	—	—	2800	—	1400	—	—
E-21	—	4	6	14	—	—	—	14	1700	—	—	2800	2800	—	2800	—	—
E-22	—	2	—	15	—	—	—	3	1000	—	2	1000	2000	—	1500	—	2
E-23	—	1	11	3	—	—	—	—	183	10	1	—	3300	—	1650	—	1
E-24	—	—	—	—	—	—	—	—	928	148	—	2062	—	—	1031	—	—
E-25	—	5	—	—	—	—	—	5	2613	180	1	8670	—	—	2793	—	1
E-26	—	6	—	8	1	—	—	6	—	—	—	—	—	—	—	—	—
E-27	—	9	—	22	1	3	—	9	—	—	—	—	—	—	16	—	1

(P) - PAVED AREA

**ELECTRICAL QUANTITIES**

**E-61**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,118 170,405	Var	86	102

REGISTERED ELECTRICAL ENGINEER DATE 6/9/14  
*Jacqueline C. Tan*  
 REGISTERED ELECTRICAL ENGINEER DATE 8-11-14  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 JACQUELINE C. TAN  
 No. E015611  
 Exp. 12/31/15  
 ELECTRICAL  
 STATE OF CALIFORNIA

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

NOTE: (THIS SHEET ONLY)

1. ITEMS SHOWN IN TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**MODIFY CHANGEABLE MESSAGE SIGN**

	MODEL 500 CHANGEABLE MESSAGE SIGN PANEL (N)	CMS CONTROL CABLES (N)	30A, 1P CIRCUIT BREAKER (N)	30A, 2P CIRCUIT BREAKER (N)	#2 (N)	#6 (N)	#8 (N)	#8(G) (N)
SHEET No.	EA	LF	EA	EA	LF	LF	LF	LF
E-56	1	80	-	1	-	3000	-	600
E-57	1	70	-	1	-	3450	-	660
E-58	1	150	1	1	1480	-	520	630
E-59	1	60	-	1	-	-	-	-

**MODIFY PULL BOX COVER**

	No. 5/5T PULL BOX NON-PAVED	No. 6/6T PULL BOX NON-PAVED	No. 5/5T PULL BOX PAVED	No. 6/6T PULL BOX PAVED	No. 9 NO. 9A SECURITY LID
SHEET No.	EA	EA	EA	EA	EA
E-48	419	10	41	-	104
E-49	497	4	80	1	146
E-50	180	54	-	-	-
E-51	28	56	-	-	-
E-52	28	30	-	-	-
E-53	28	63	-	-	-

**LIGHTING (CITY STREET)**

	LED LUMINAIRE	PE CONTROL	LED SOFFIT LUMINAIRE	1 1/2" CONDUIT	2" CONDUIT	#6	#8	#8(G)	TYPE 3 PULL BOX	TYPE 2 PULL BOX
SHEET No.	EA	EA	EA	LF	LF	LF	LF	LF	EA	EA
E-41	3	2	15	300	145	2400	-	880	1	5
E-42	6	2	8	500	-	2455	-	660	-	-

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - OFFICE OF ITS  
 FUNCTIONAL SUPERVISOR - JACQUELINE C. TAN  
 HENRY H. TRINH  
 JACQUELINE C. TAN  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

**ELECTRICAL QUANTITIES  
E-62**

	<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	
SL	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 THREE 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	THREE 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 TYPICAL	
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	
WWL	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, Ven	101, 110, 170 118, 405	Var	87	102

*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
ø	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)**

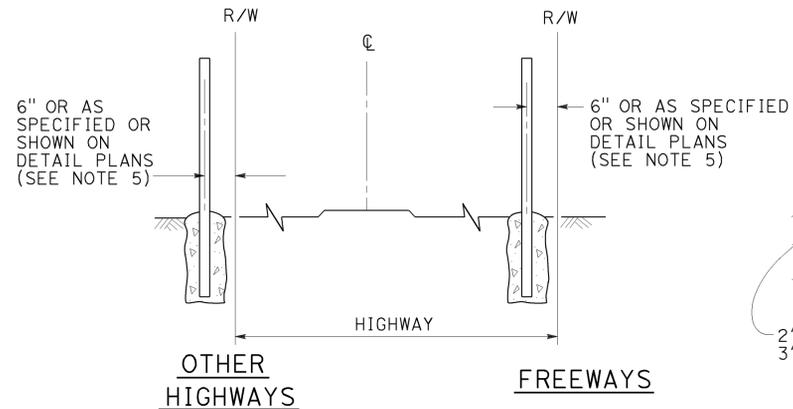
NO SCALE

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

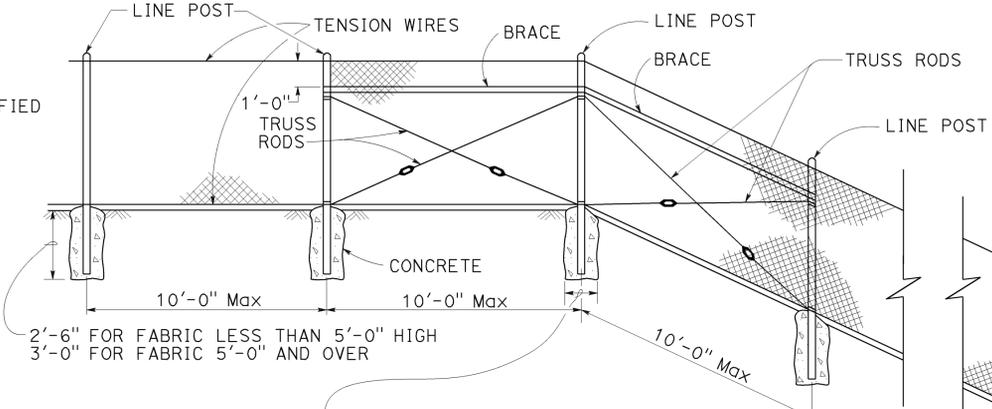
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	88	102

Glenn De Cou  
 REGISTERED CIVIL ENGINEER  
 July 18, 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.

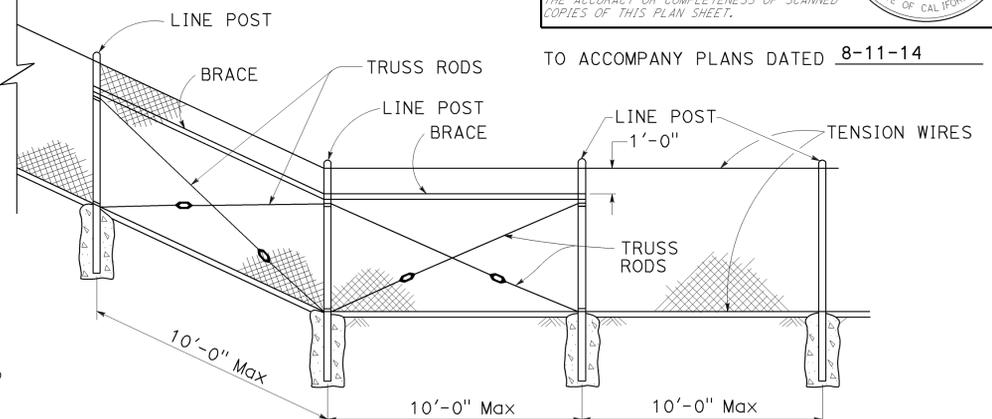
REGISTERED PROFESSIONAL ENGINEER  
 Glenn DeCou  
 No. C34547  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA



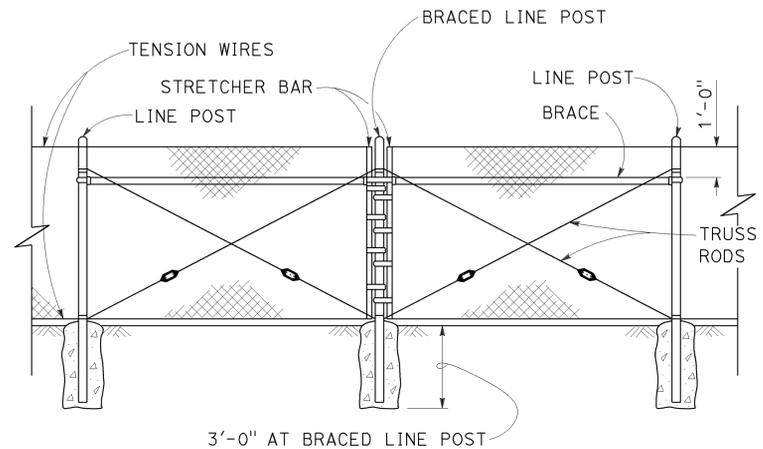
**FENCE LOCATION**



**CHAIN LINK FENCE ON SHARP BREAK IN GRADE**

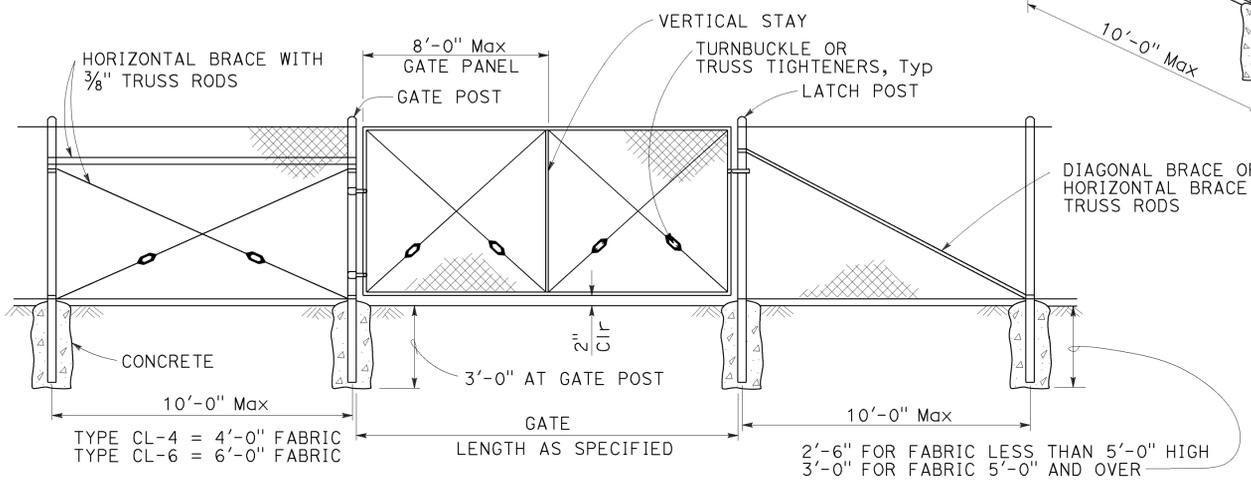


TO ACCOMPANY PLANS DATED 8-11-14



**BRACED LINE POST INSTALLATION**

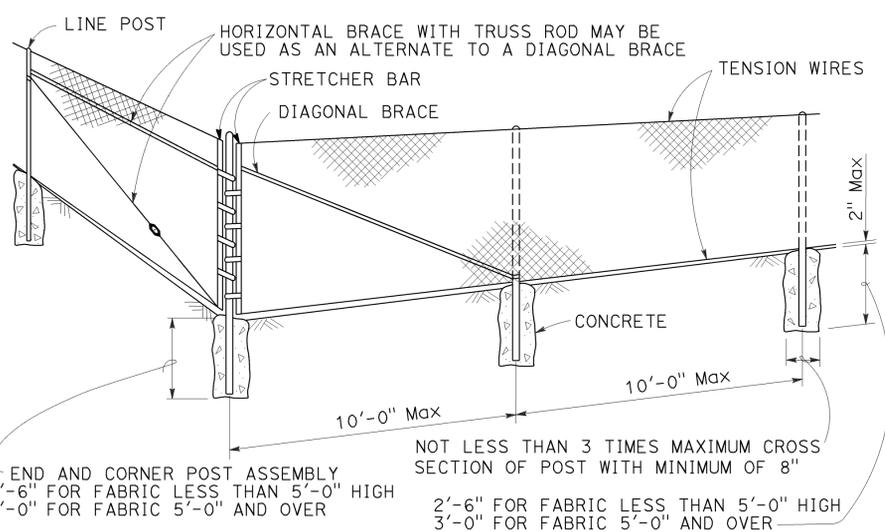
Braced line post at intervals not exceeding 1000'



**CHAIN LINK GATE INSTALLATION**

FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
OVER 6'-0" TO 8'-0" Max	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.



**CORNER POST**

**NOTES:**

- The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
- Options exercised shall be uniform on any one project.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
- See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

FENCE HEIGHT	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE**  
 NO SCALE

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85 DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A85**

2010 REVISED STANDARD PLAN RSP A85

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	89	102

*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

2010 REVISED STANDARD PLAN RSP H1

**A**

AB AGGREGATE BASE  
 ABS ACRYLONITRILE-BUTADIENE-STYRENE  
 AC ASPHALT CONCRETE  
 ACC ARMOR-CLAD CONDUCTORS  
 Adj ADJACENT/ADJUSTABLE  
 AIC AUXILIARY IRRIGATION CONTROLLER  
 AI+ 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  
 Bi+ 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  
 M+I 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.

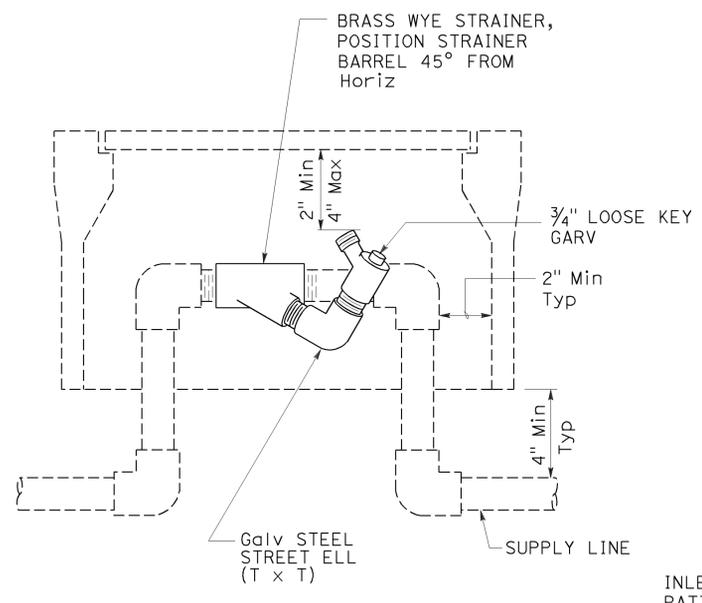
**REVISED STANDARD PLAN RSP H1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	90	102

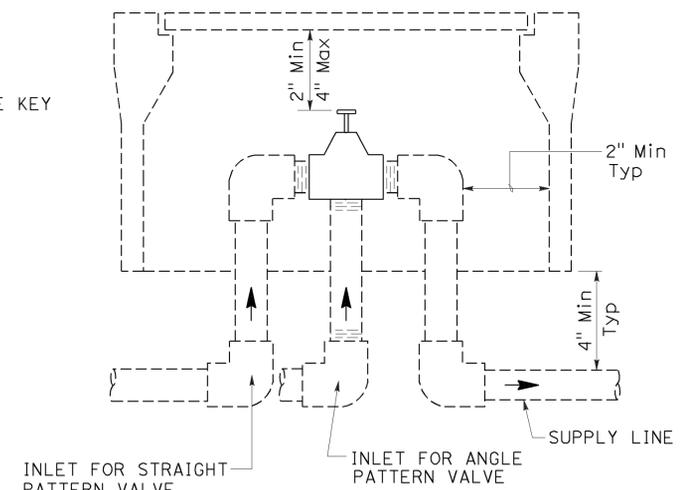
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



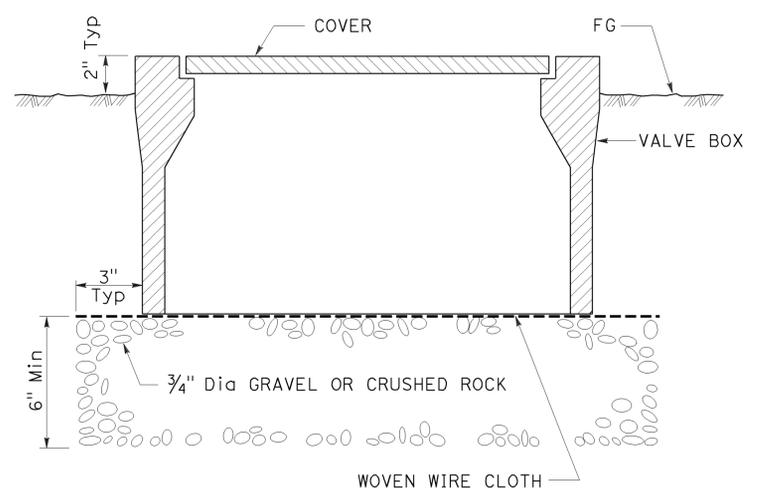
TO ACCOMPANY PLANS DATED 8-11-14



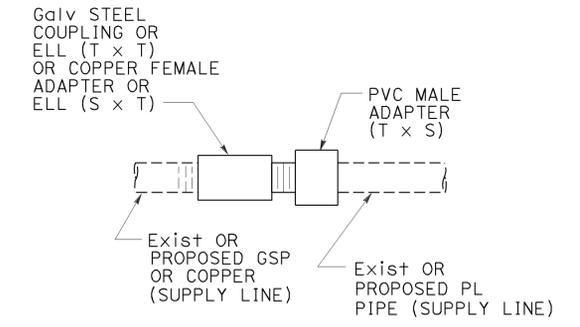
**ELEVATION  
WYE STRAINER ASSEMBLY**



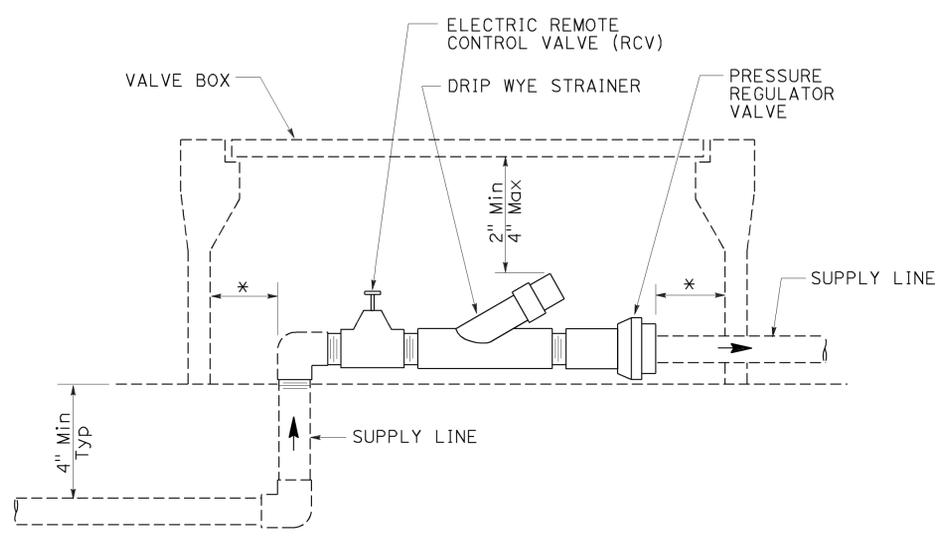
**ELEVATION  
VALVE**



**SECTION  
VALVE BOX**



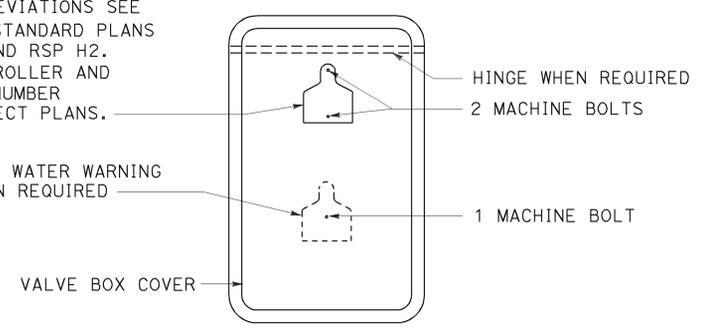
**GALVANIZED OR COPPER PIPE  
CONNECTION TO PLASTIC PIPE**



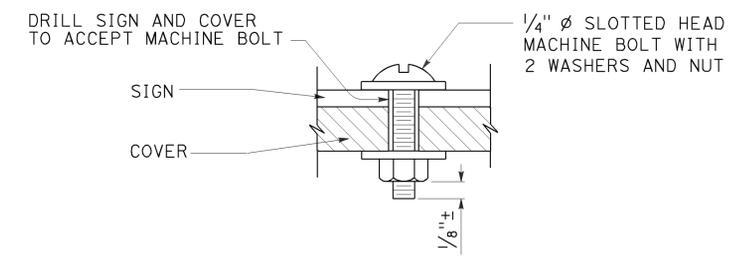
**ELEVATION  
DRIP VALVE ASSEMBLY**

IDENTIFICATION LABEL:  
FOR ABBREVIATIONS SEE  
REVISED STANDARD PLANS  
RSP H1 AND RSP H2.  
FOR CONTROLLER AND  
STATION NUMBER  
SEE PROJECT PLANS.

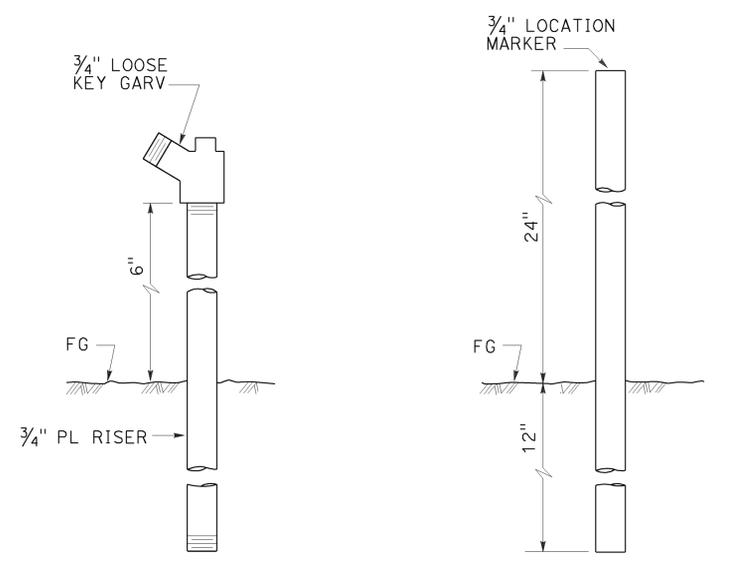
RECYCLED WATER WARNING  
SIGN WHEN REQUIRED



**PLAN**



**SECTION  
VALVE BOX IDENTIFICATION**



**ELEVATION  
GARDEN VALVE ASSEMBLY**  
**ELEVATION  
LOCATION MARKER**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**LANDSCAPE DETAILS**

NO SCALE

RSP H7 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H7  
DATED MAY 20, 2011 - PAGE 224 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H7**

2010 REVISED STANDARD PLAN RSP H7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	91	102

  
 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

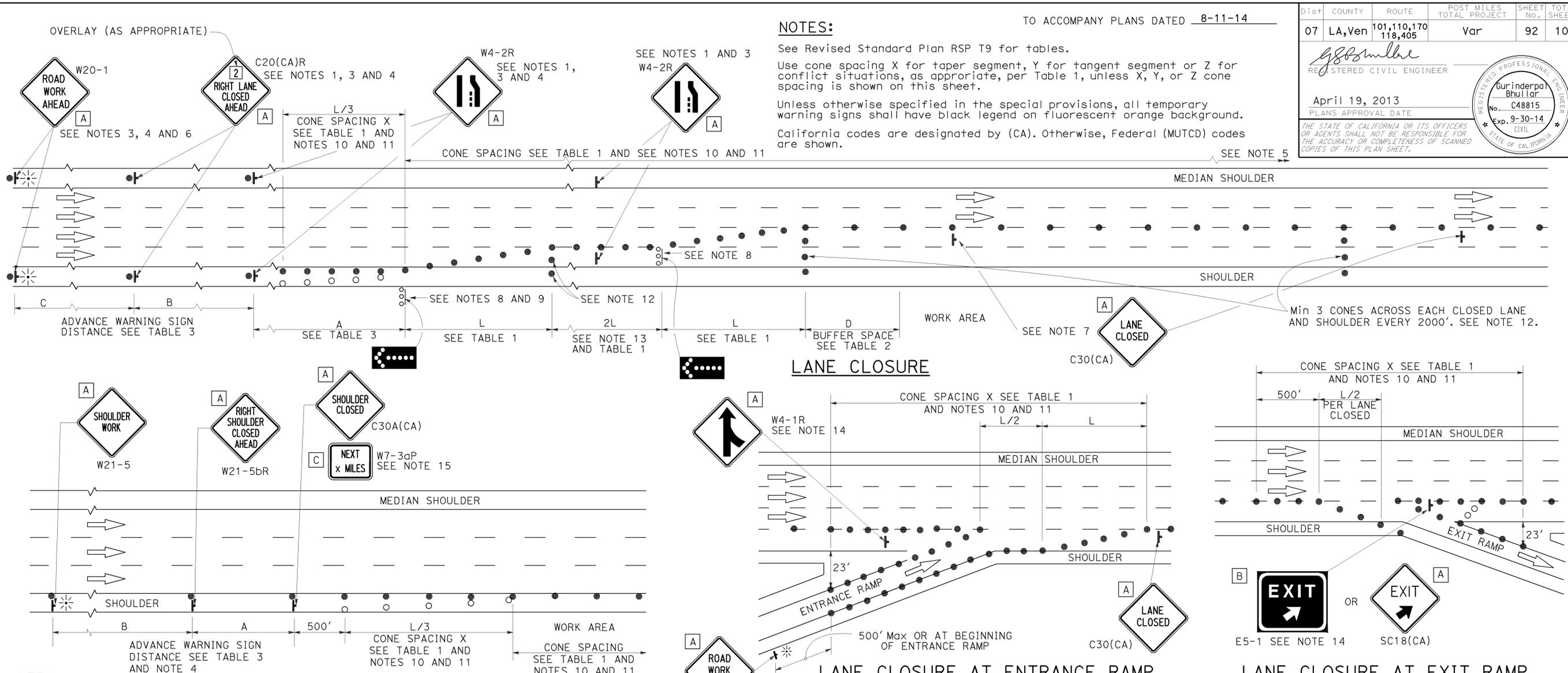
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	92	102

gsbmlbr  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
 Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL  
 REGISTERED PROFESSIONAL ENGINEER  
 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:**

- 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 closures.
- Duplicate sign installations are not required:
  - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
  - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A 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**

- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

W20-1 SEE NOTE 4

**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"

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT \_\_\_\_\_ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

**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.

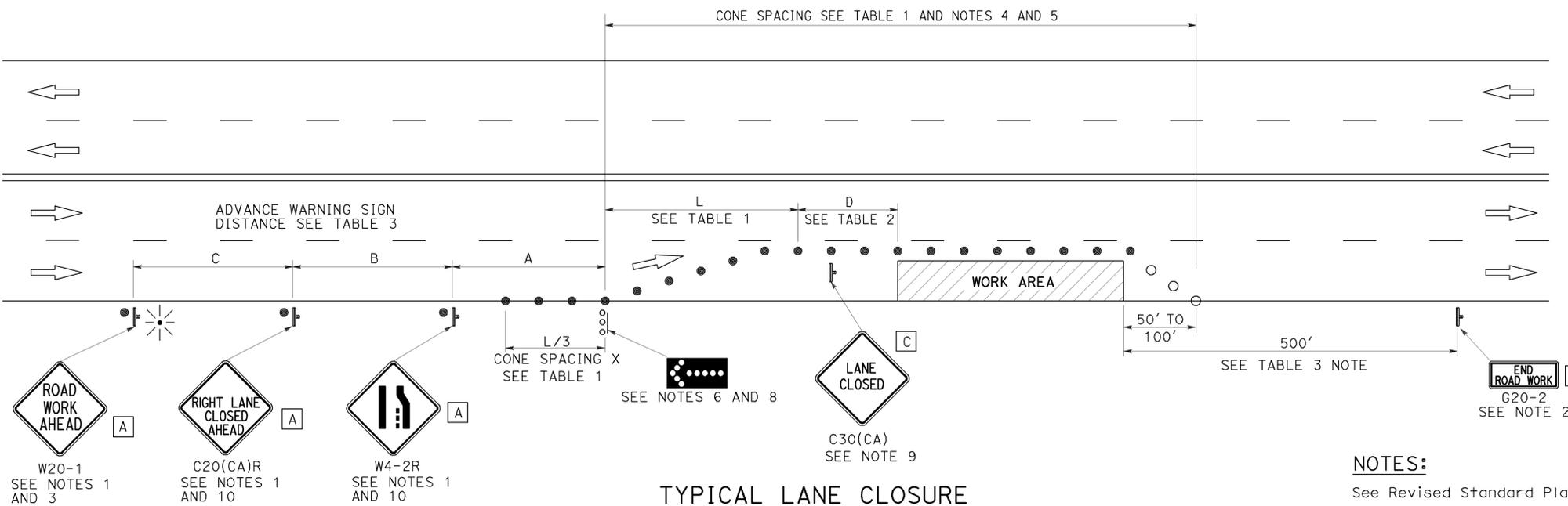
**REVISED STANDARD PLAN RSP T10**

2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	93	102

Registered Civil Engineer  
 April 19, 2013  
 PLANS APPROVAL DATE  
 Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

# 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

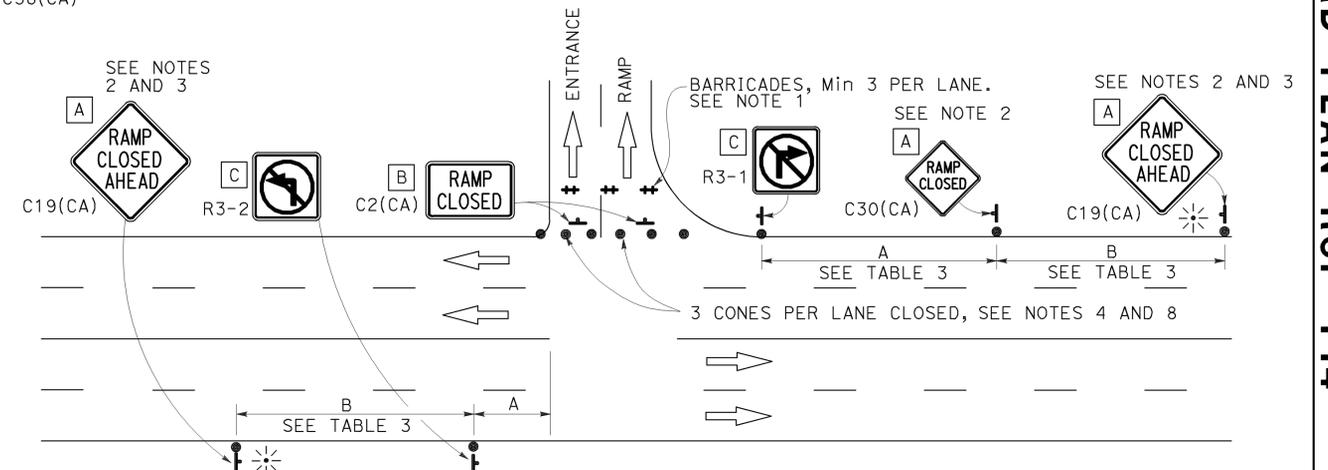
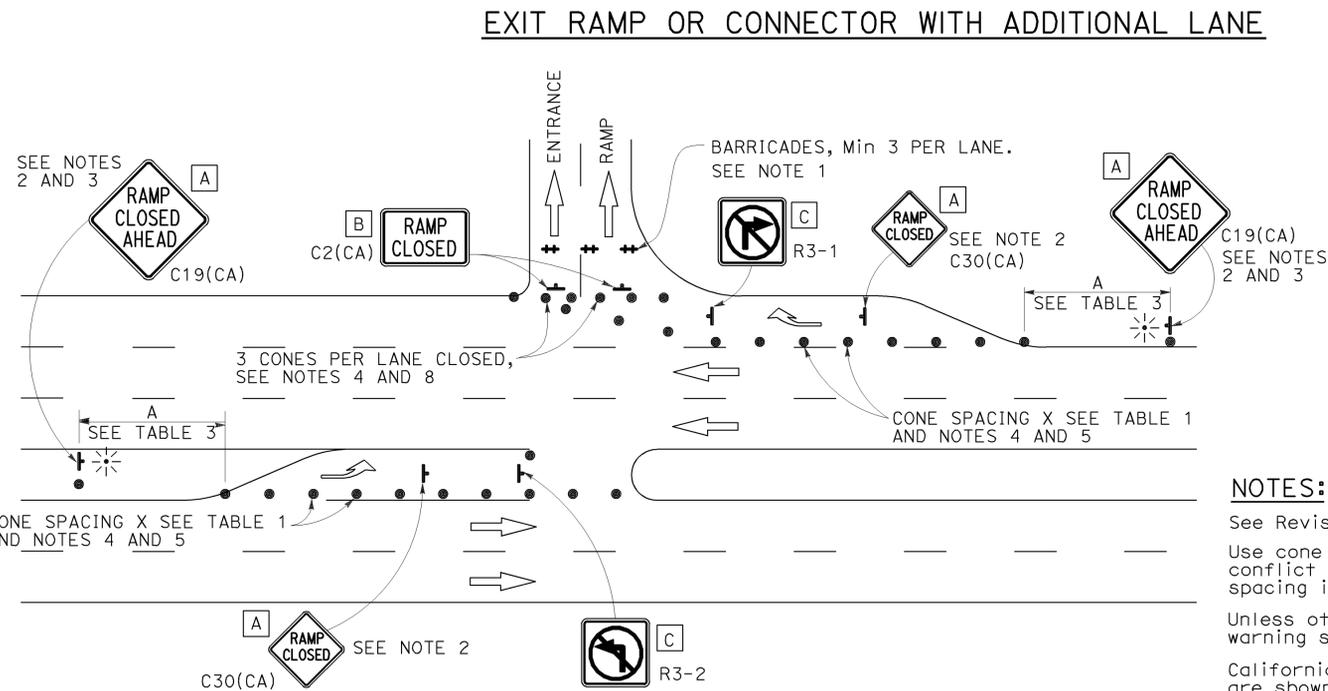
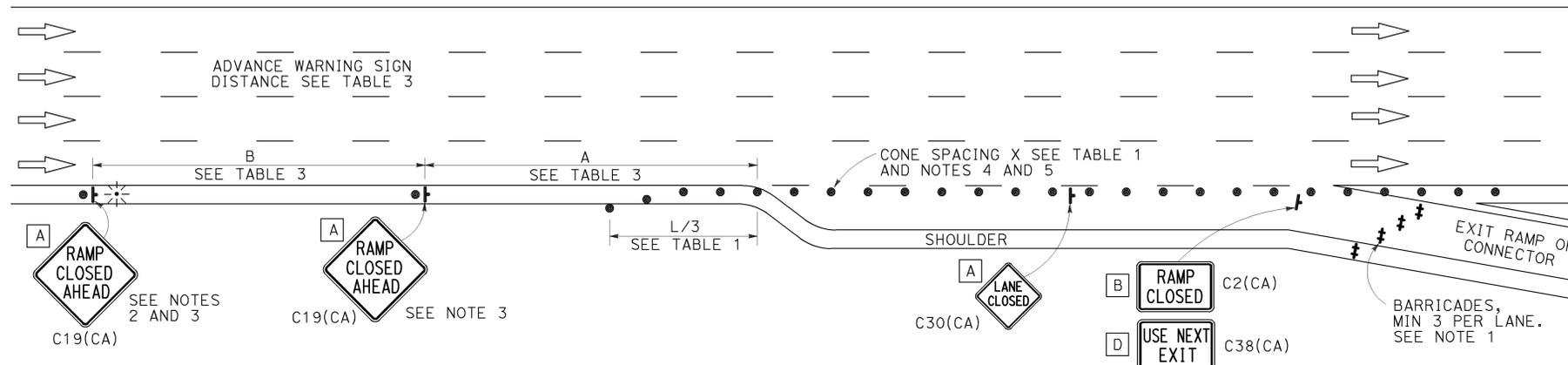
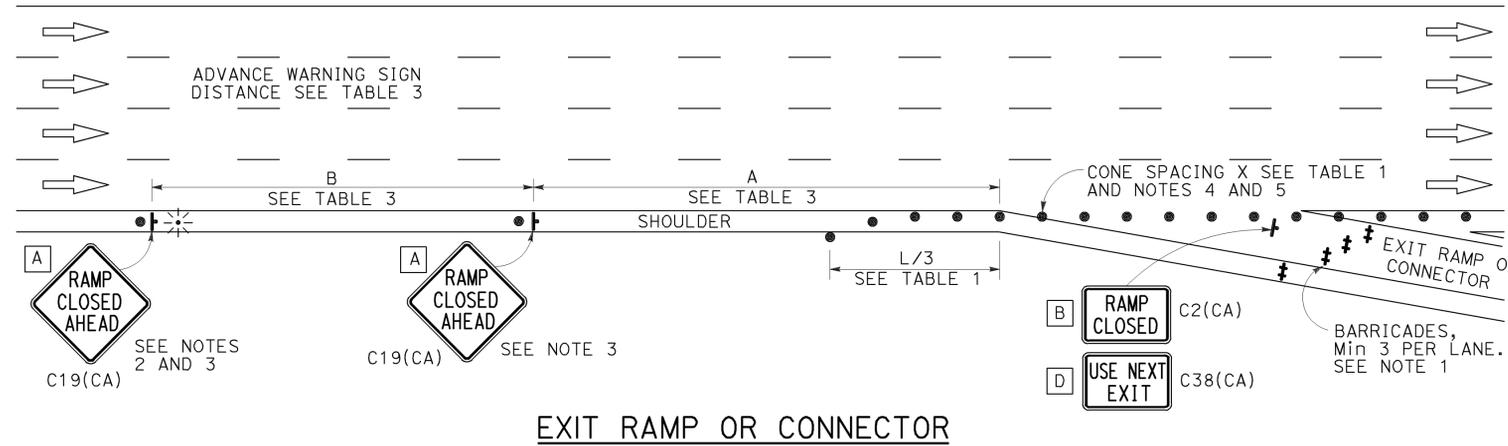
## NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	94	102

  
 April 19, 2013  
 PLANS APPROVAL DATE

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.

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	95	102
 REGISTERED ELECTRICAL ENGINEER July 19, 2013 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>					
					

TO ACCOMPANY PLANS DATED 8-11-14

### SOFFIT AND WALL MOUNTED LUMINAIRES

-  PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
-  FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
-  WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
-  EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
-  EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

**NOTE:**  
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
$\Omega$	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V <sub>(dc)</sub>	VOLT (DIRECT CURRENT)
V <sub>(ac)</sub>	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
$\mu$	MICRO
P	PICO
Hz	HERTZ

### LEGEND:

- AB** ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
- BC** INSTALL PULL BOX IN EXISTING CONDUIT RUN
- BP** PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
- CB** INSTALL CONDUIT INTO EXISTING PULL BOX
- CC** CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
- CF** CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
- DH** DETECTOR HANDHOLE
- FA** FOUNDATION TO BE ABANDONED
- IS** INSTALL SIGN ON SIGNAL MAST ARM
- NS** NO SLIP BASE ON STANDARD
- PEC** PHOTOELECTRIC CONTROL
- PEU** PHOTOELECTRIC UNIT
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
- RE** REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
- RL** RELOCATE EQUIPMENT
- RR** REMOVE AND REUSE EQUIPMENT
- RS** REMOVE AND SALVAGE EQUIPMENT
- SC** SPLICE NEW TO EXISTING CONDUCTORS
- SD** SERVICE DISCONNECT
- TSP** TELEPHONE SERVICE POINT

### ABBREVIATIONS

- |       |   |       |                                      |
|-------|---|-------|--------------------------------------|
| APS   | ACCESSIBLE PEDESTRIAN SIGNAL            | M/M   | MULTIPLE TO MULTIPLE TRANSFORMER     |
| BBS   | BATTERY BACKUP SYSTEM                   | M+g   | MOUNTING                             |
| BC    | BOLT CIRCLE                             | MV    | MERCURY VAPOR LIGHTING FIXTURE       |
| BPB   | BICYCLE PUSH BUTTON                     | MVDS  | MICROWAVE VEHICLE DETECTION SYSTEM   |
| C     | CONDUIT                                 | N     | NEUTRAL (GROUNDED CONDUCTOR)         |
| CB    | CIRCUIT BREAKER                         | NB    | NEUTRAL BUS                          |
| CCTV  | CLOSED CIRCUIT TELEVISION               | NC    | NORMALLY CLOSE                       |
| Ck+   | CIRCUIT                                 | NO    | NORMALLY OPEN                        |
| CMS   | CHANGEABLE MESSAGE SIGN                 | P     | CIRCUIT BREAKER'S POLE               |
| C+id  | CALTRANS IDENTIFICATION                 | PB    | PULL BOX                             |
| Comm  | COMMUNICATION                           | PBA   | PUSH BUTTON ASSEMBLY                 |
| DLC   | LOOP DETECTOR LEAD-IN CABLE             | PEC   | PHOTOELECTRIC CONTROL                |
| EMS   | EXTINGUISHABLE MESSAGE SIGN             | Ped   | PEDESTRIAN                           |
| EVUC  | EMERGENCY VEHICLE UNIT CABLE            | PEU   | PHOTOELECTRIC UNIT                   |
| EVUD  | EMERGENCY VEHICLE UNIT DETECTOR         | PT    | CONDUIT WITH PULL TAPE               |
| FB    | FLASHING BEACON                         | RE    | RELOCATED EQUIPMENT                  |
| FBCA  | FLASHING BEACON CONTROL ASSEMBLY        | RM    | RAMP METERING                        |
| FBS   | FLASHING BEACON WITH SLIP BASE          | RWIS  | ROADSIDE WEATHER INFORMATION SYSTEM  |
| FO    | FIBER OPTIC                             | SB    | SLIP BASE                            |
| G     | EQUIPMENT GROUNDING CONDUCTOR           | SIC   | SIGNAL INTERCONNECT CABLE            |
| GB    | GROUND BUS                              | Sig   | SIGNAL                               |
| GFCI  | GROUND FAULT CIRCUIT INTERRUPTER        | SMA   | SIGNAL MAST ARM                      |
| HAR   | HIGHWAY ADVISORY RADIO                  | SNS   | STREET NAME SIGN                     |
| Hex   | HEXAGONAL                               | SP    | SERVICE POINT                        |
| HPS   | HIGH PRESSURE SODIUM                    | TDC   | TELEPHONE DEMARCATION CABINET        |
| IISNS | INTERNALLY ILLUMINATED STREET NAME SIGN | TMS   | TRAFFIC MONITORING STATION           |
| ISL   | INDUCTION SIGN LIGHTING                 | TOS   | TRAFFIC OPERATIONS SYSTEM            |
| LED   | LIGHT EMITTING DIODE                    | Veh   | VEHICLE                              |
| LMA   | LUMINAIRE MAST ARM                      | VIVDS | VIDEO IMAGE VEHICLE DETECTION SYSTEM |
| LPS   | LOW PRESSURE SODIUM                     | WIM   | WEIGH-IN-MOTION                      |
| L+g   | LIGHTING                                | Xfmr  | TRANSFORMER                          |
| Lum   | LUMINAIRE                               |       |                                      |
| M     | METERED                                 |       |                                      |
| MAT   | MAST ARM MOUNTING TOP ATTACHMENT        |       |                                      |
| MAS   | MAST ARM MOUNTING SIDE ATTACHMENT       |       |                                      |

### MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

### NOTES:

- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

### STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
(LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-1A**

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	96	102

Theresa Gabriel  
 REGISTERED ELECTRICAL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE  
 No. E15129  
 Exp. 6-30-14  
 ELECTRICAL  
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 8-11-14

### CONDUIT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

### SERVICE EQUIPMENT

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

### POLE-MOUNTED SERVICE DESIGNATION

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

### FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

### SIGNAL EQUIPMENT

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

### SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

### NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

### ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-1B**

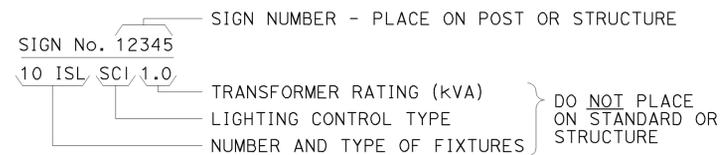
2010 REVISED STANDARD PLAN RSP ES-1B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	97	102
 REGISTERED ELECTRICAL 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.					

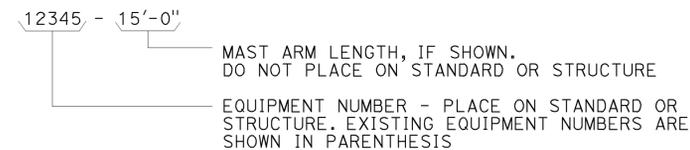
TO ACCOMPANY PLANS DATED 8-11-14

### EQUIPMENT IDENTIFICATION

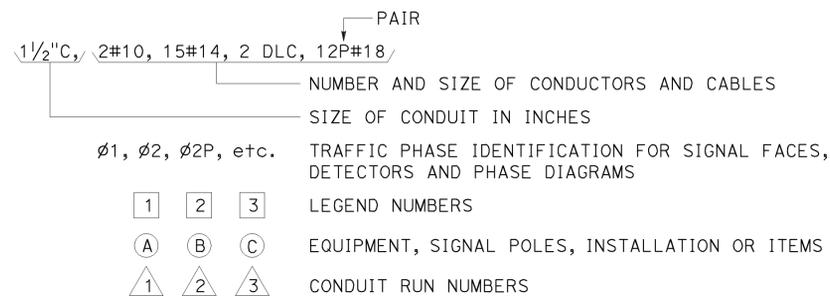
#### ILLUMINATED SIGN IDENTIFICATION NUMBER:



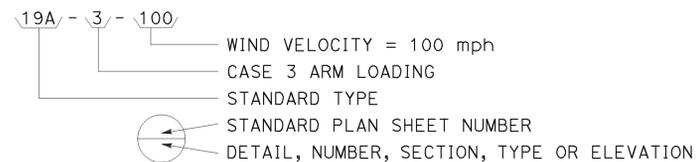
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



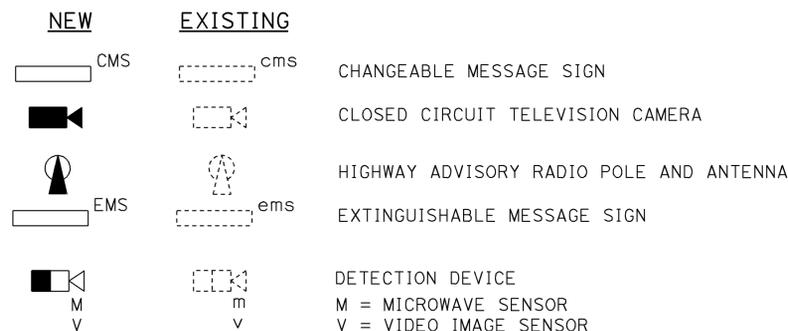
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



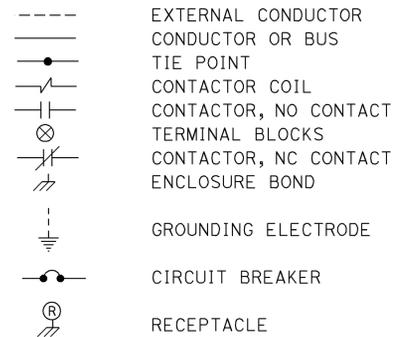
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



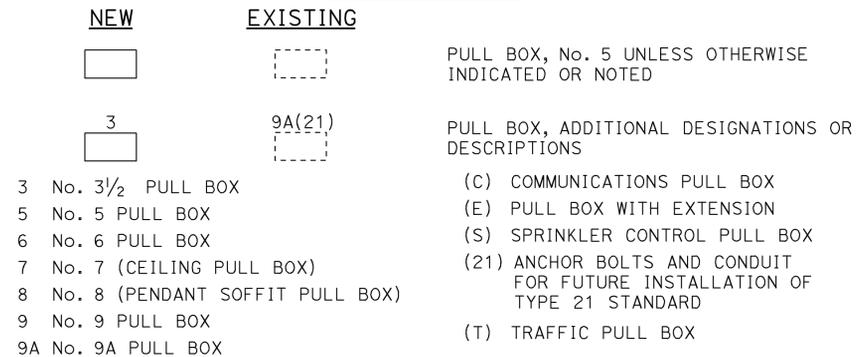
### MISCELLANEOUS EQUIPMENT



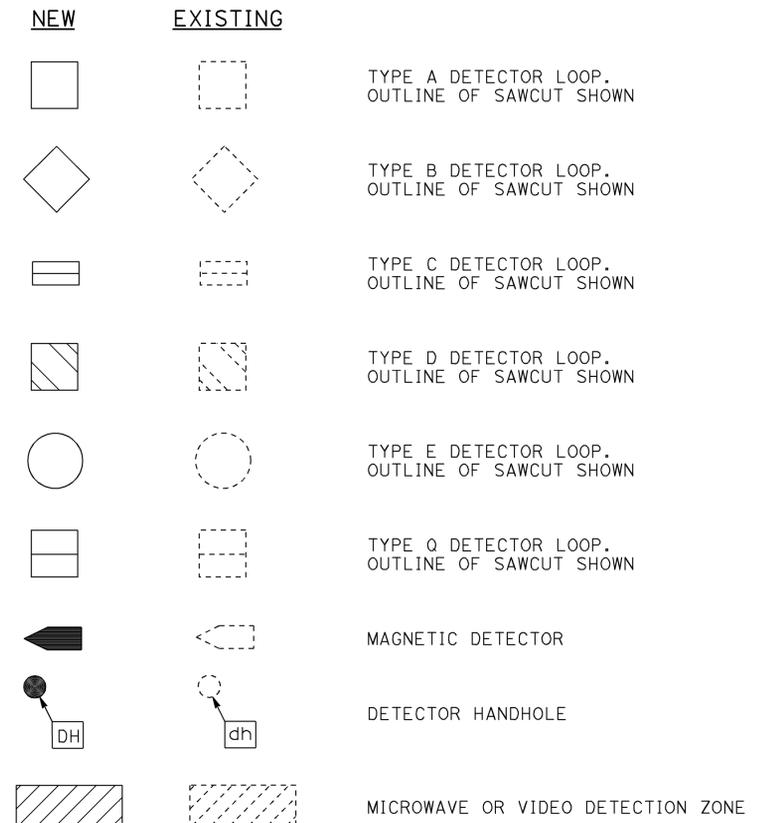
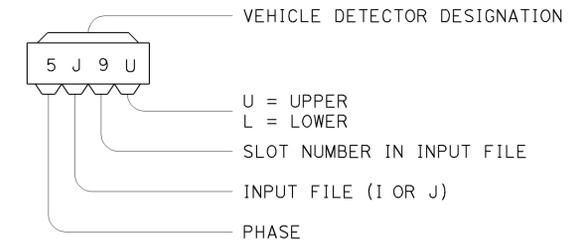
### WIRING DIAGRAM LEGEND



### PULL BOXES



### VEHICLE DETECTORS



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

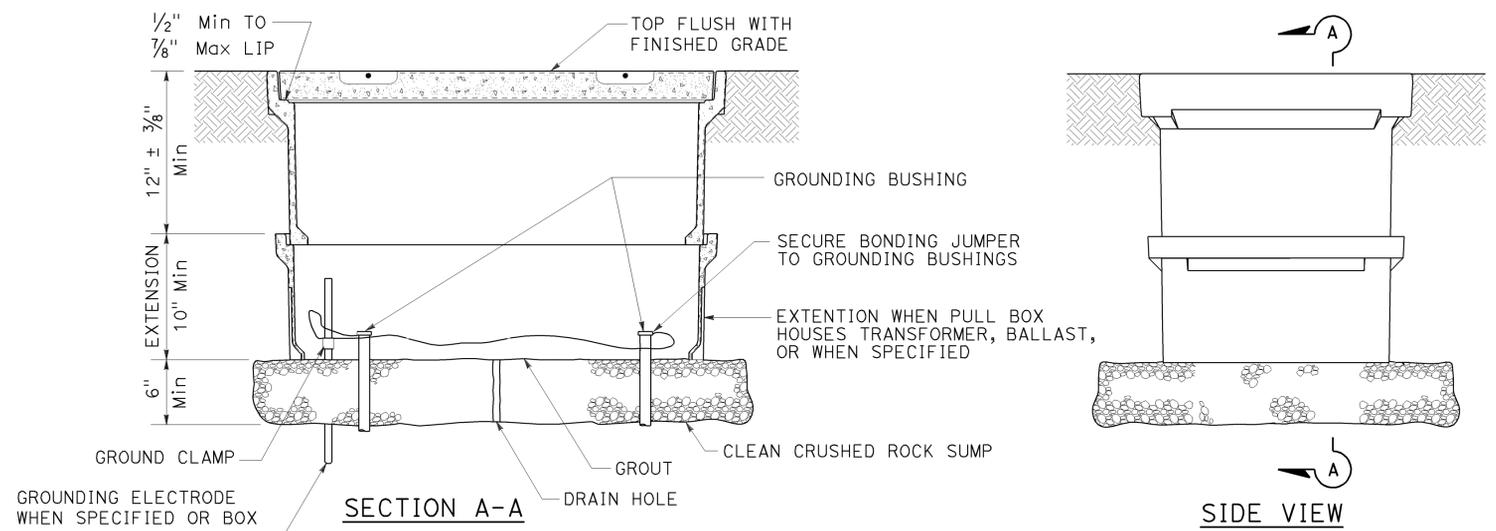
**REVISED STANDARD PLAN RSP ES-1C**

2010 REVISED STANDARD PLAN RSP ES-1C

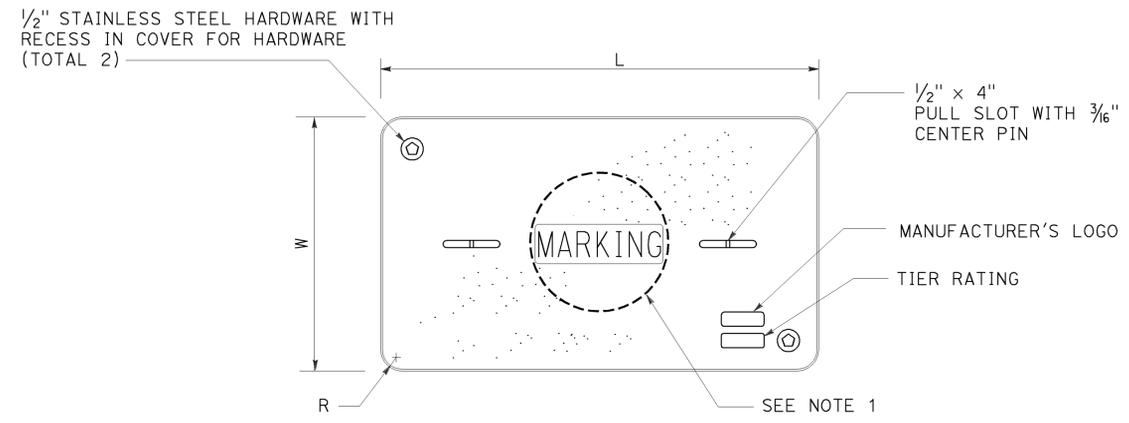
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	98	102
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER No. E15129 Exp. 6-30-14 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

TO ACCOMPANY PLANS DATED 8-11-14

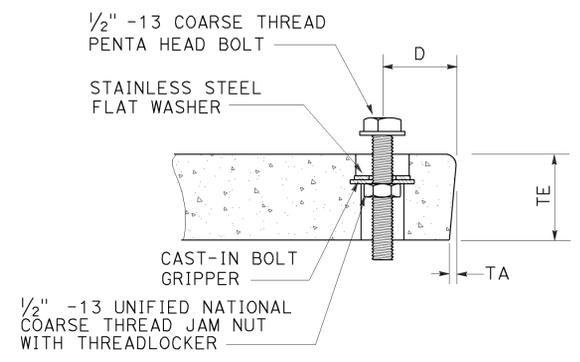
2010 REVISED STANDARD PLAN RSP ES-8A



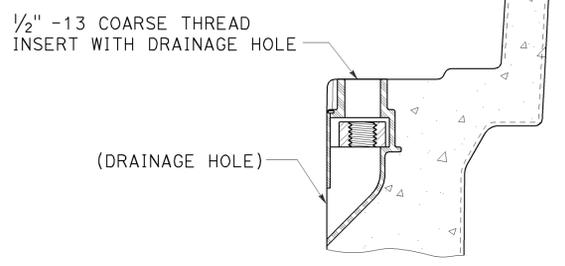
**INSTALLATION DETAILS  
DETAIL A**



**COVER TOP VIEW**



**TYPICAL COVER CAPTIVE BOLT  
OR SIMILAR**



**TYPICAL THREADED INSERT  
OR SIMILAR**

**NOTES:**

- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
  - No. 3 1/2 pull box.
    - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
  - No. 5, 6, 9 or 9A pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
    - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATIONS" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communication line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
    - "BOOSTER PUMP" - Booster pump circuit.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside radius of covers and pull boxes shall have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
- All dimensions for the cover for non-traffic pull box are nominal values.

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3 1/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
(NON-TRAFFIC PULL BOX)**  
NO SCALE

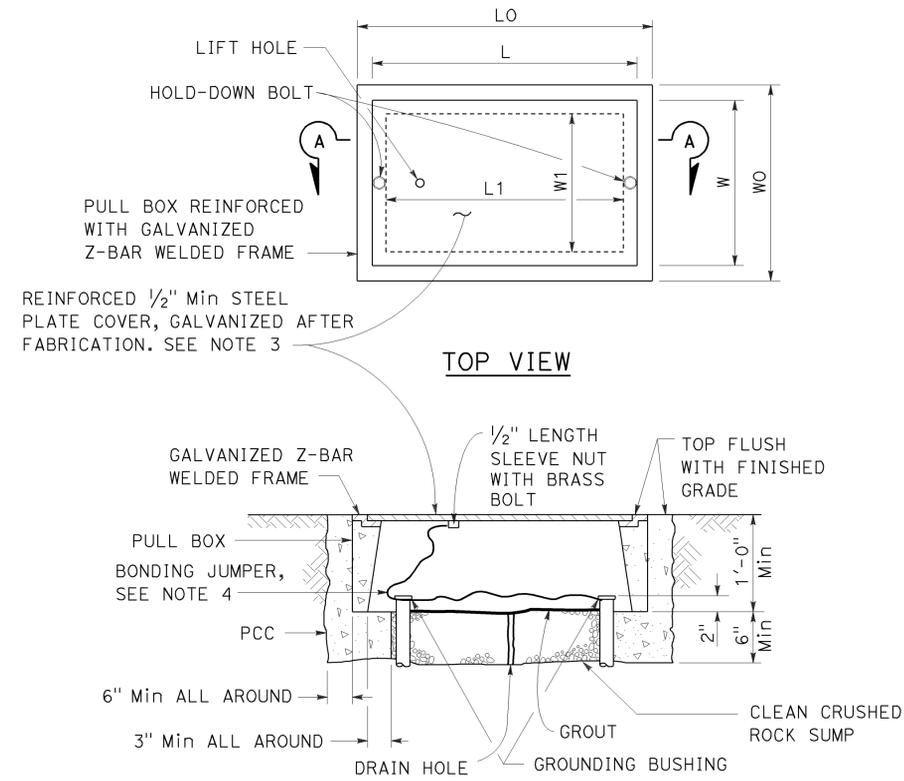
RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-8A**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	99	102
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL 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



**SECTION A-A**  
**No. 3 1/2(T), No. 5(T) AND**  
**No. 6(T) TRAFFIC PULL BOX**

**NOTES:**

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
  - No. 3 1/2(T) pull box.
    - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
  - No. 5(T) or 6(T) pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
    - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATION" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communications line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
    - "BOOSTER PUMP" - Booster pump circuit.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8".

PULL BOX	PULL BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	W0	L0	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5"± 1"	1'-8 7/8"±	1'-2 1/2"±	10 5/8"± 1"	1'-8"±	1'-1 3/4"±	0"	1/2"	NONE
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2"± 1"	2'-5 1/2"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	1/2"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11 1/2"±	1'-11 1/2"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	1/2"	NONE

\* EXCLUDING CONDUIT WEB \*\* TOP DIMENSION

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS**  
**(TRAFFIC PULL BOX)**  
 NO SCALE

RSP ES-8B DATED JULY 19, 2013 SUPERSEDES RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-8B**

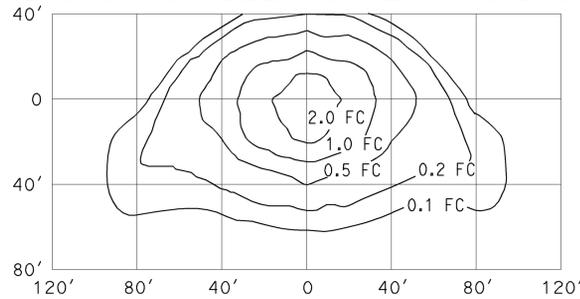
2010 REVISED STANDARD PLAN RSP ES-8B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA, Ven	101,110,170 118,405	Var	100	102
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL 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

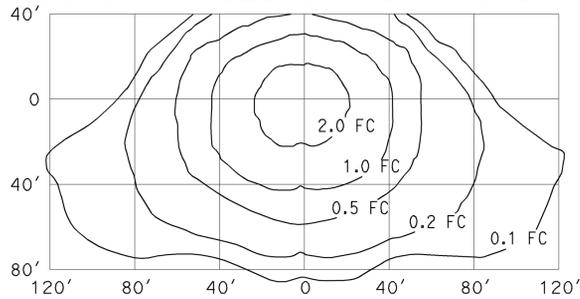
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire  
 34' Mounting Height  
 Lamp operated at 22,000 lm  
 200-W high pressure sodium lamp  
 ANSI Designation S66

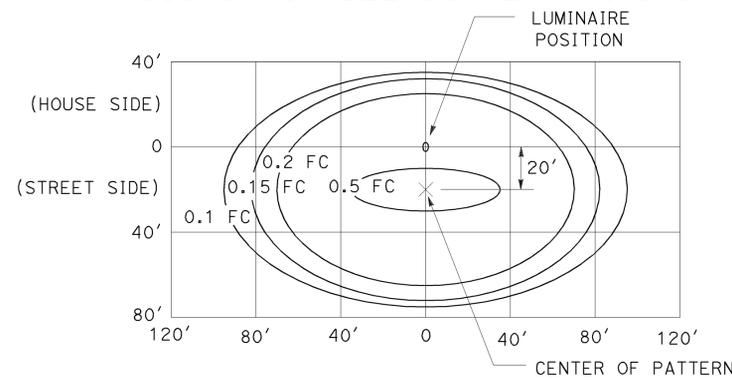
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire  
 40' Mounting Height  
 Lamp operated at 37,000 lm  
 310-W high pressure sodium lamp  
 ANSI Designation S67

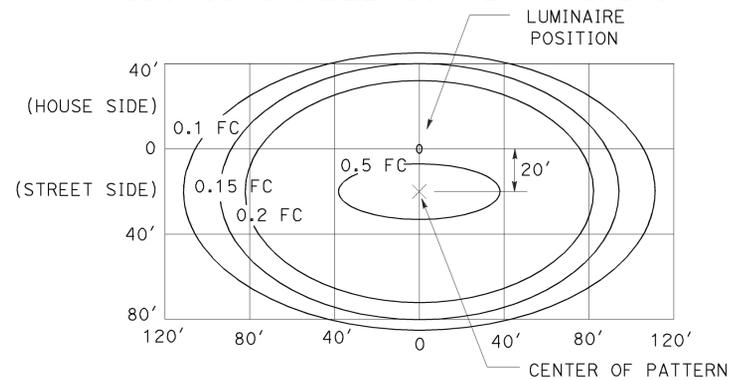
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 1

165-W at 34' Mounting Height

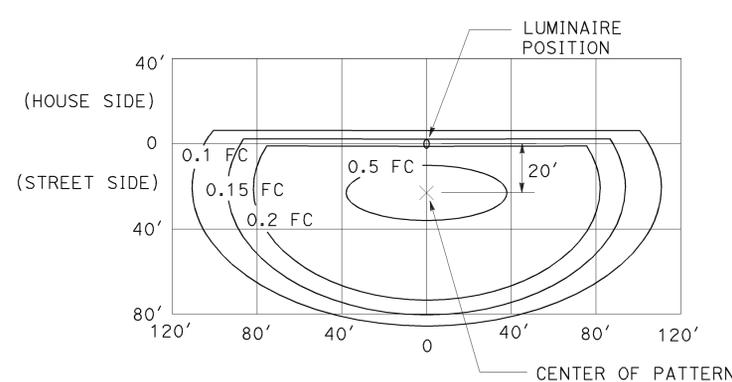
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 2

235-W at 40' Mounting Height

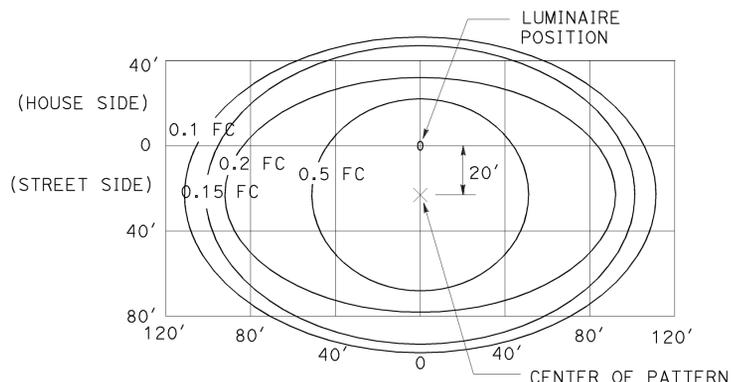
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 3

235-W at 40' Mounting Height  
 with back side control

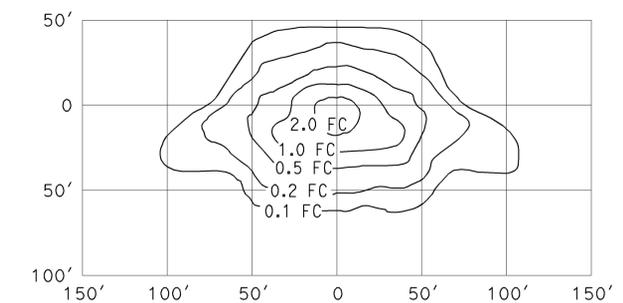
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4

300-W at 40' Mounting Height

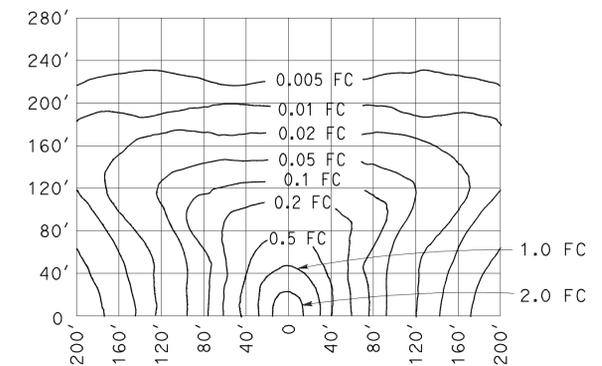
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire  
 30' Mounting Height  
 Lamp operated at 16,000 lm  
 150-W high pressure sodium lamp  
 ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



LOW PRESSURE SODIUM LUMINAIRE

40' Mounting Height  
 Lamp operated at 33,000 lm  
 180-W low pressure sodium lamp

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS  
 (ISOFOOTCANDLE DIAGRAMS)**

NO SCALE

RSP ES-10A DATED JULY 19, 2013 SUPERSEDES RSP ES-10A DATED JULY 20, 2012  
 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-10A**

2010 REVISED STANDARD PLAN RSP ES-10A