Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	1	60

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SHASTA COUNTY IN REDDING ON ROUTE 44 FROM ROUTE 273 TO 0.4 MILE EAST OF ROUTE 273 AND ON ROUTE 273 FROM BUENAVENTURA TO SACRAMENTO RIVER BRIDGE

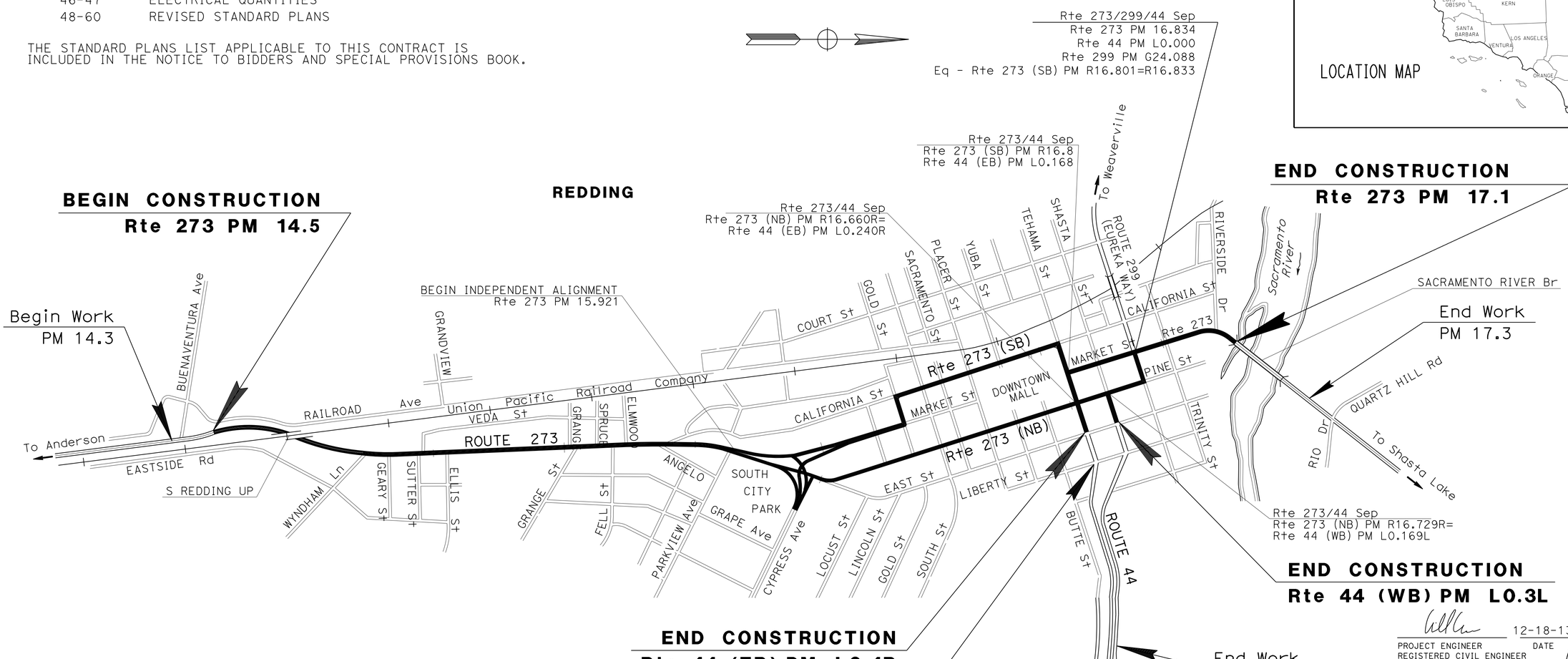
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE
2	TYPICAL CROSS SECTIONS
3	KEY MAP
4-17	LAYOUTS
18	CONSTRUCTION DETAILS
19	CONSTRUCTION AREA SIGNS
20	DETOUR PLANS
21	PAVEMENT DELINEATION DETAILS
22-23	PAVEMENT DELINEATION QUANTITIES
24-27	SUMMARY OF QUANTITIES
28-32	MODIFY TRAFFIC MONITORING STATION
33-44	MODIFY SIGNAL
45	ELECTRICAL DETAILS
46-47	ELECTRICAL QUANTITIES
48-60	REVISED STANDARD PLANS

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

LOCATION MAP



NO SCALE

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

12-18-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

December 18, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 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.

CONTRACT No.	02-4G1504
PROJECT ID	0213000080

PROJECT MANAGER LANCE BROWN
DESIGN ENGINEER LANCE BROWN

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LAST REVISION 12-18-13 DATE PLOTTED => 17-JAN-2014 TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	2	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

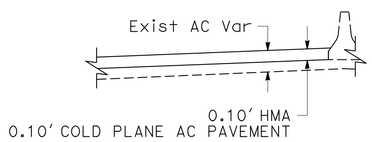
REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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

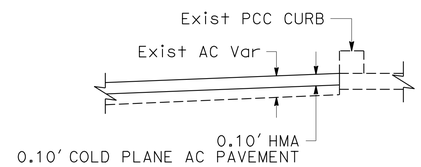
NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. Exist UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. Exist REINFORCED PCC ENCOUNTERED DURING REPLACE AC OPERATION TO REMAIN OR AS DIRECTED BY THE ENGINEER.

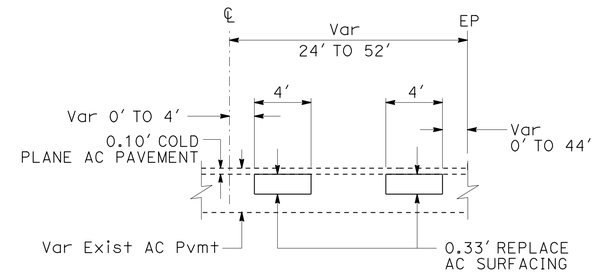
PAVEMENT CLIMATE REGION
INLAND VALLEY



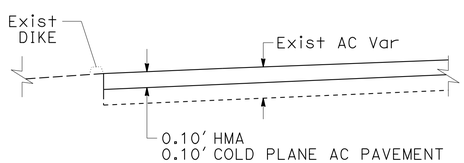
TYPICAL SECTION
(TYPICAL BOTH DIRECTIONS)



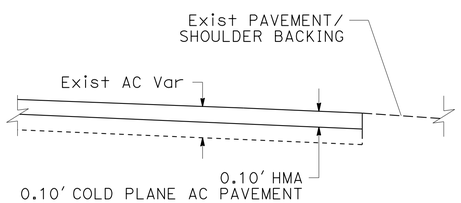
TYPICAL SECTION
(TYPICAL BOTH DIRECTIONS)



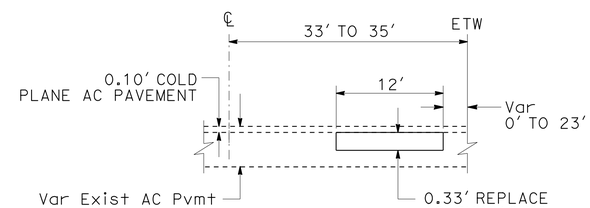
REPLACE AC SURFACING
(TYPICAL BOTH DIRECTIONS)



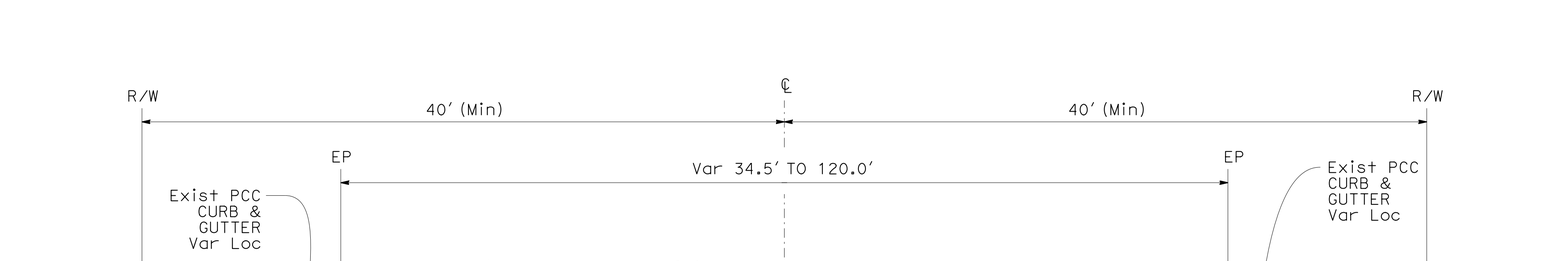
TYPICAL SECTION
(TYPICAL BOTH DIRECTIONS)



TYPICAL SECTION
(TYPICAL BOTH DIRECTIONS)



REPLACE AC SURFACING
(TYPICAL BOTH DIRECTIONS)
Sha-273-PM 14.96 & 16.91



TYPICAL CROSS SECTION

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION | DATE PLOTTED => 17-JAN-2014
12-18-13 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	3	60

REGISTERED CIVIL ENGINEER DATE 12-17-13

PLANS APPROVAL DATE 12-18-13

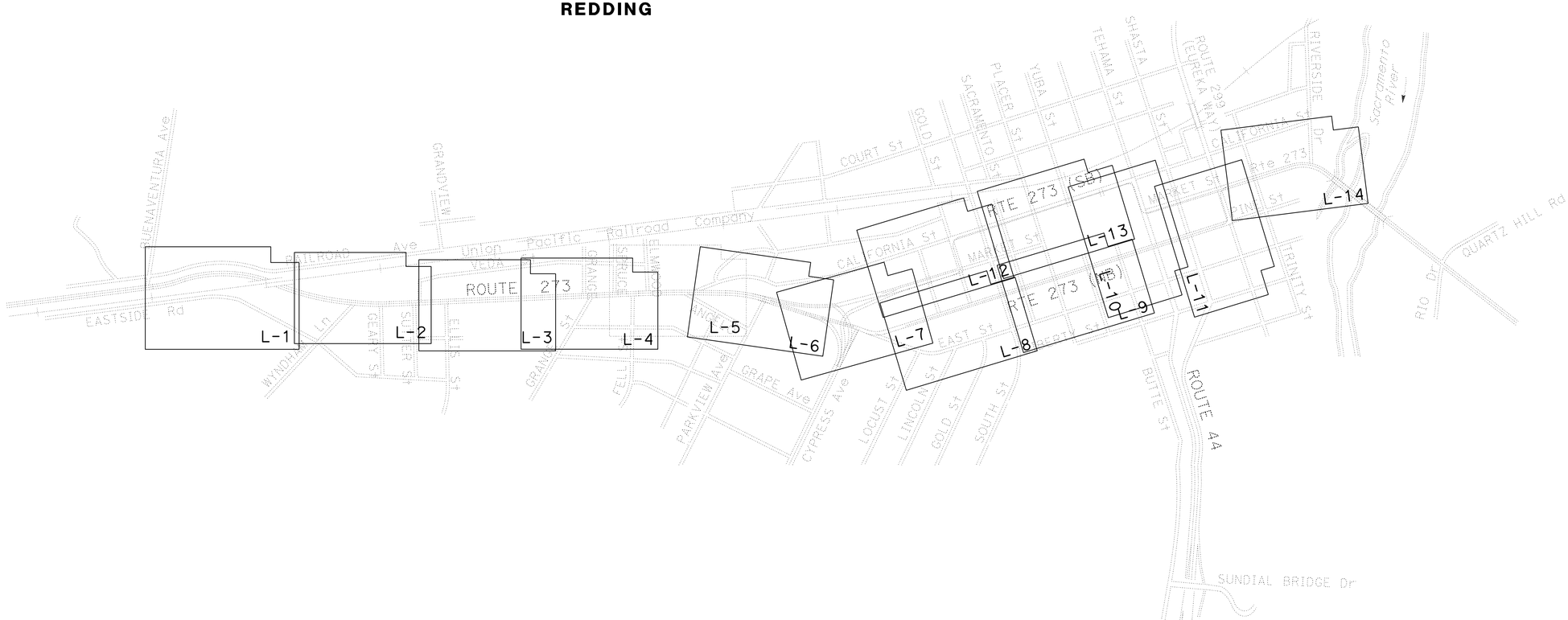
REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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.

NOTE:

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

REDDING



KEY MAP

NO SCALE

K-1

CALCULATED-DESIGNED BY	MICHAEL CONNER	REVISED BY	
CHECKED BY	KARLIE SMITH	DATE REVISED	
FUNCTIONAL SUPERVISOR	LANCE BROWN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	4	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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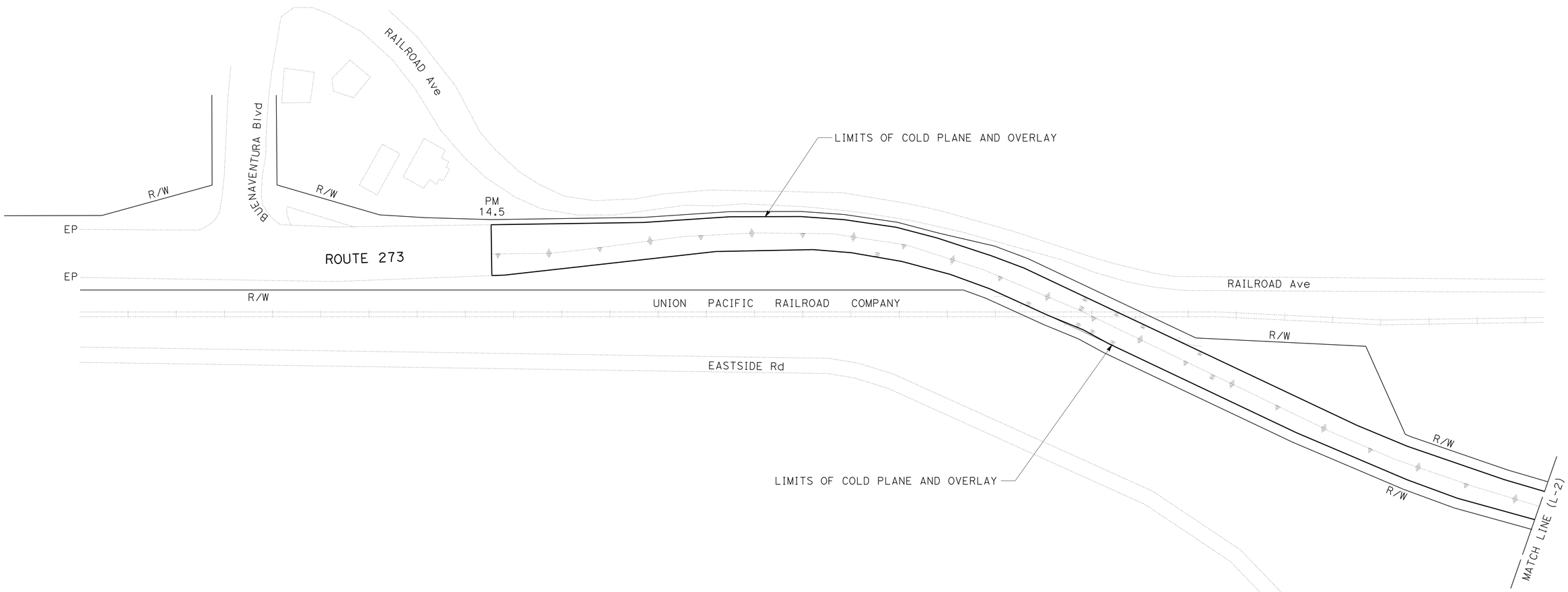
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
3. UTILITIES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.

LEGEND:

- Exist MANHOLE
- MANHOLE TO BE ADJUSTED TO GRADE
- Exist VALVE
- VALVE FRAME AND COVER TO BE ADJUSTED TO GRADE
- GAS COVER TO BE ADJUSTED TO GRADE
- WELL — MONITORING WELL COVER (WORK BY OTHERS)



LAYOUT
NO SCALE

L-1

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION | DATE PLOTTED => 17-JAN-2014 | 12-18-13 | TIME PLOTTED => 10:12

BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 24g150ea001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0156 | PROJECT NUMBER & PHASE 02-1300-0080-1 | EA 02-4G1501

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	5	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES (THIS SHEET ONLY):

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. 9 EA ADJUST WATER VALVE BOX
   3 EA ADJUST SANITARY SEWER MANHOLE
   3 EA ADJUST MONITORING WELL COVER (WORK BY OTHERS)
3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
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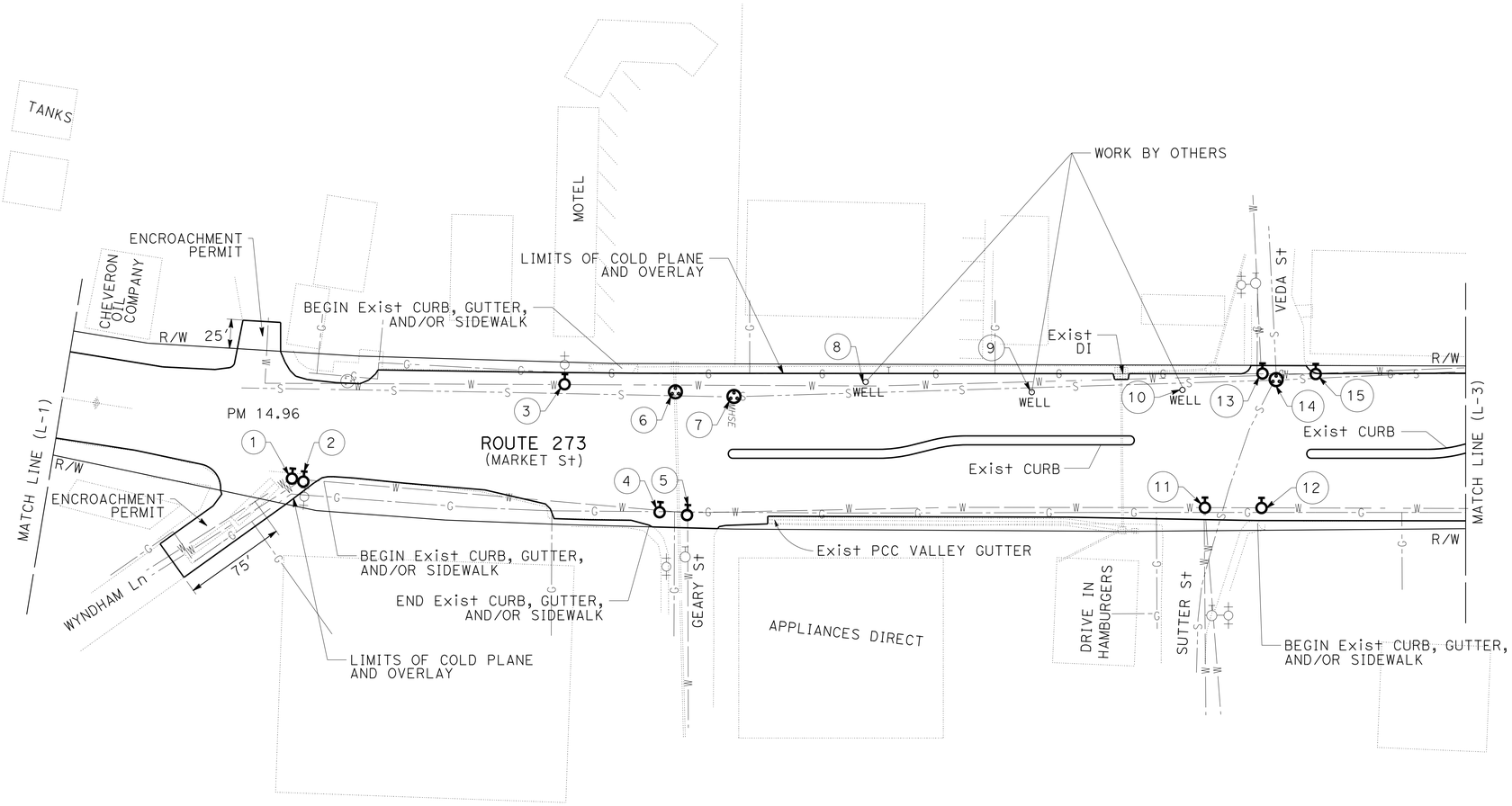

LAYOUT
NO SCALE

L-2

LAST REVISION	DATE PLOTTED => 17-JAN-2014
12-18-13	TIME PLOTTED => 10:12

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED-DESIGNED BY: MICHAEL CONNER
CHECKED BY: KARLIE SMITH
REVISED BY
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	6	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES (THIS SHEET ONLY):

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

2. 6 EA ADJUST WATER VALVE BOX
   2 EA ADJUST SANITARY SEWER MANHOLE
   1 EA ADJUST STORM DRAIN MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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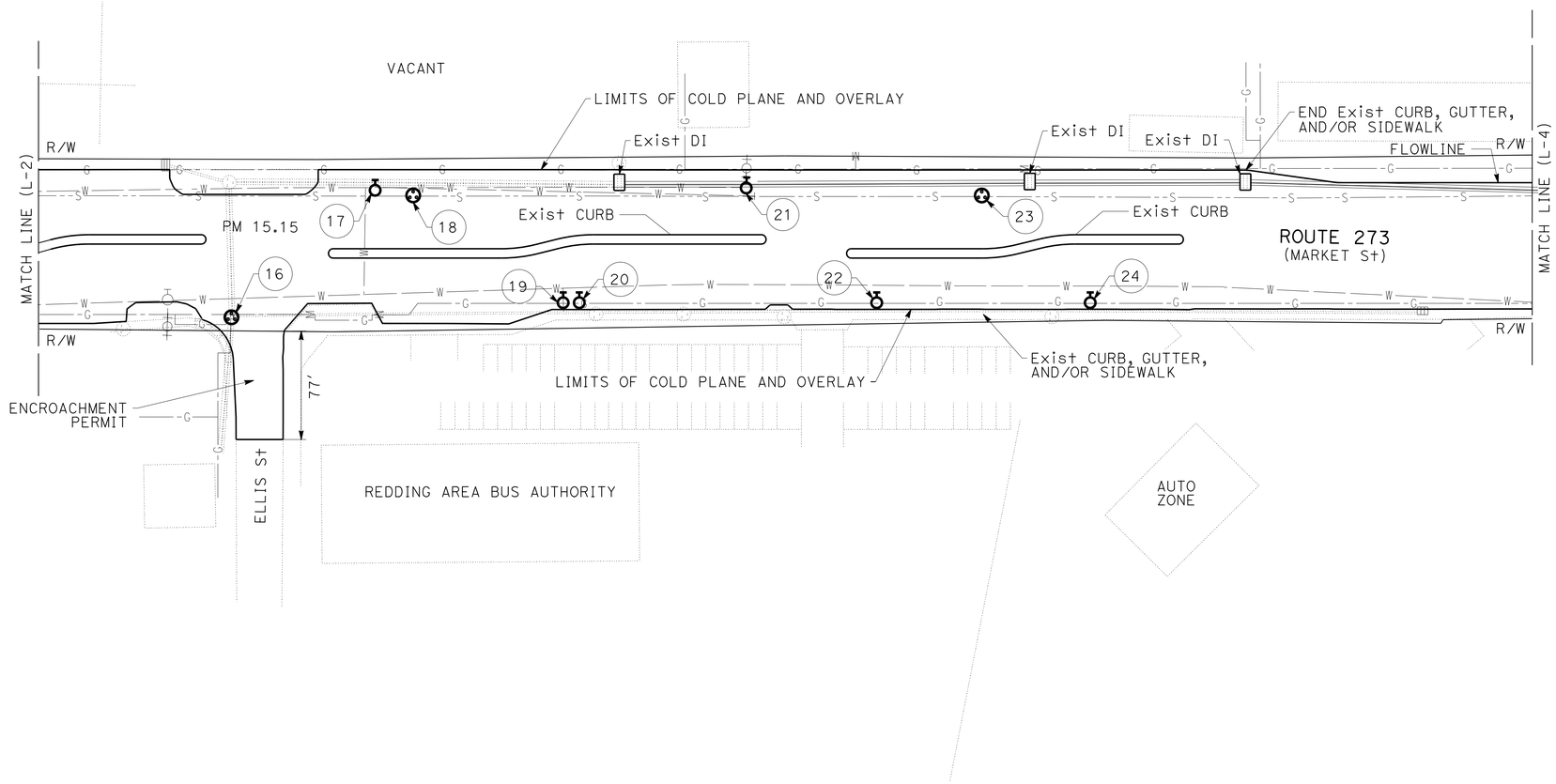

LAYOUT

NO SCALE

L-3

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MICHAEL CONNER	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	7	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES (THIS SHEET ONLY):

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

2. 21 EA ADJUST WATER VALVE BOX
   4 EA ADJUST SANITARY SEWER MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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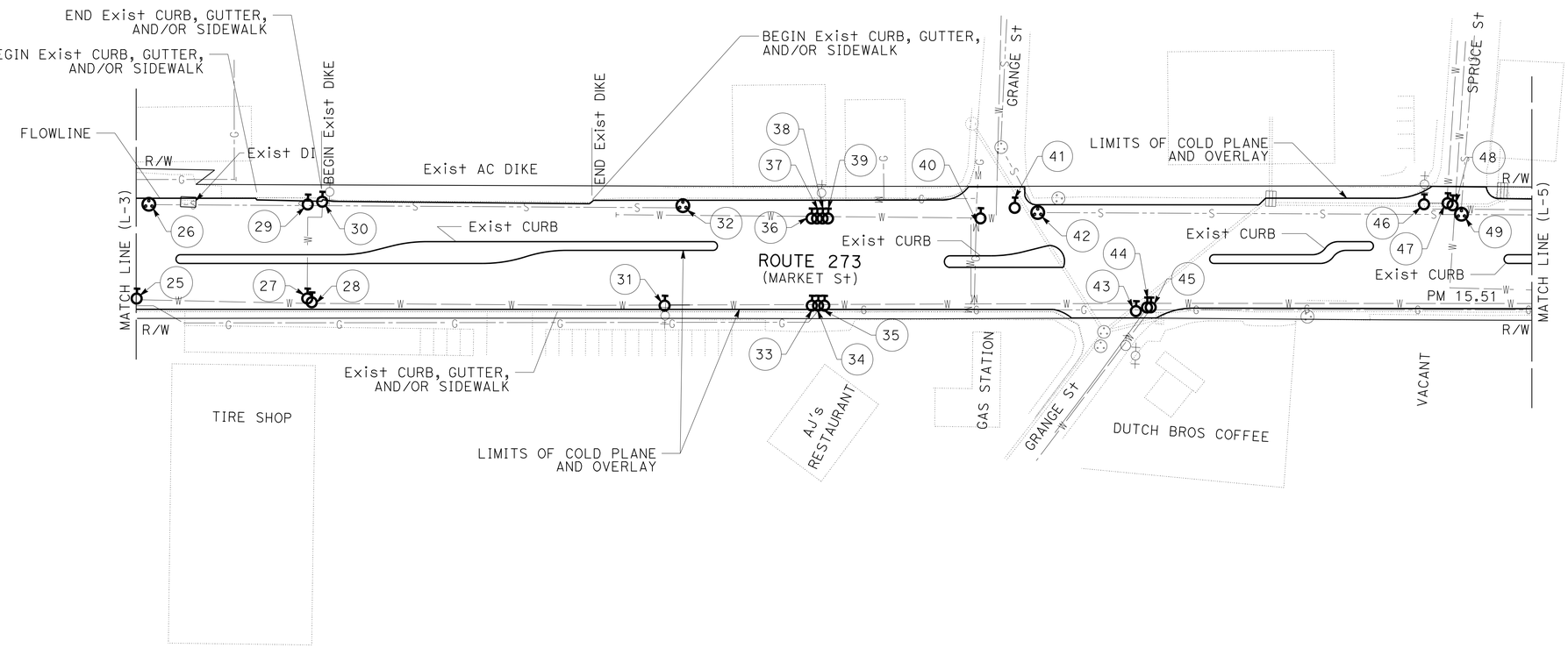

LAYOUT

NO SCALE

L-4

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MICHAEL CONNER
CHECKED BY: KARLIE SMITH
FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	8	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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

NOTES (THIS SHEET ONLY):

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

2. 18 EA ADJUST WATER VALVE BOX
   7 EA ADJUST SANITARY SEWER MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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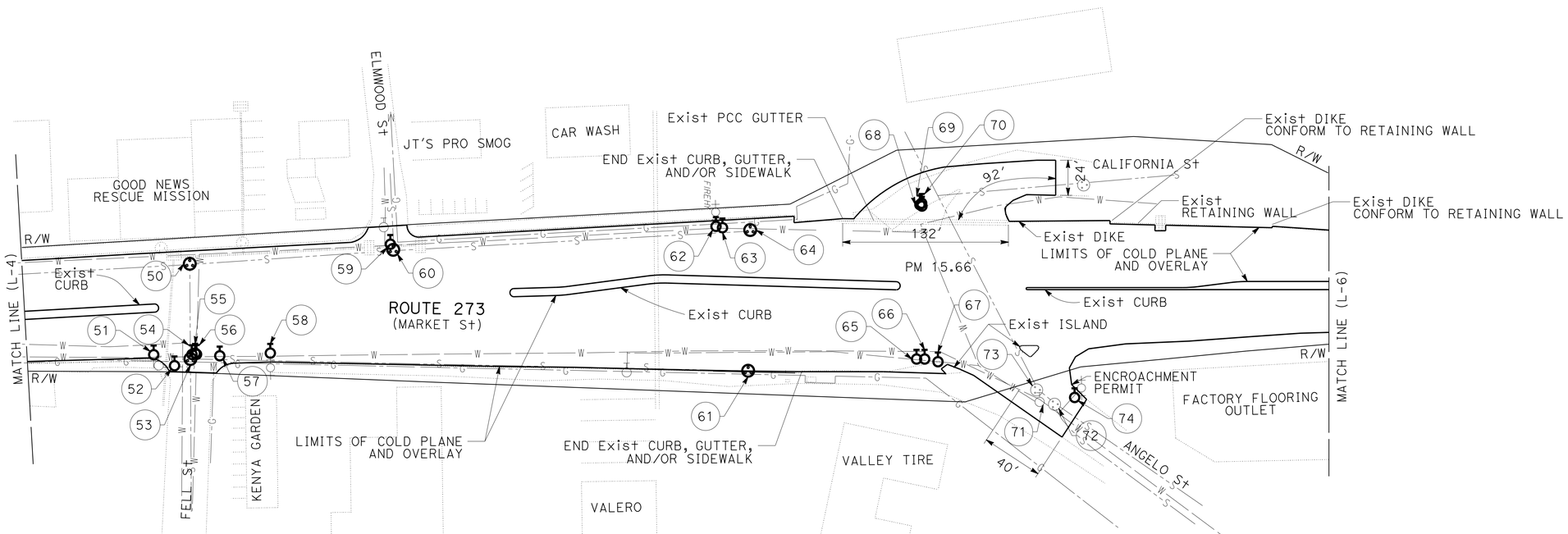

LAYOUT

NO SCALE

L-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MICHAEL CONNER	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	9	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES:

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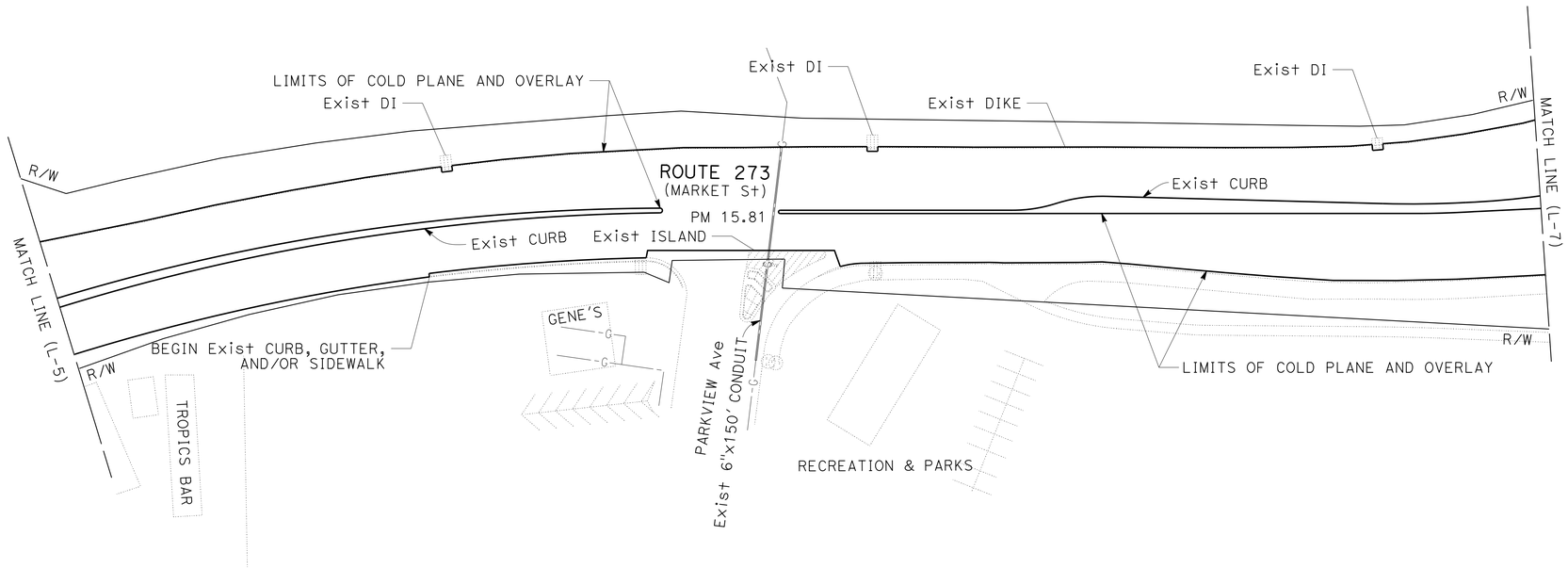

LAYOUT

NO SCALE

L-6

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MICHAEL CONNER	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	10	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES (THIS SHEET ONLY):

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

2. 16 EA ADJUST WATER VALVE BOX
   5 EA ADJUST SANITARY SEWER MANHOLE
   1 EA ADJUST TELEPHONE MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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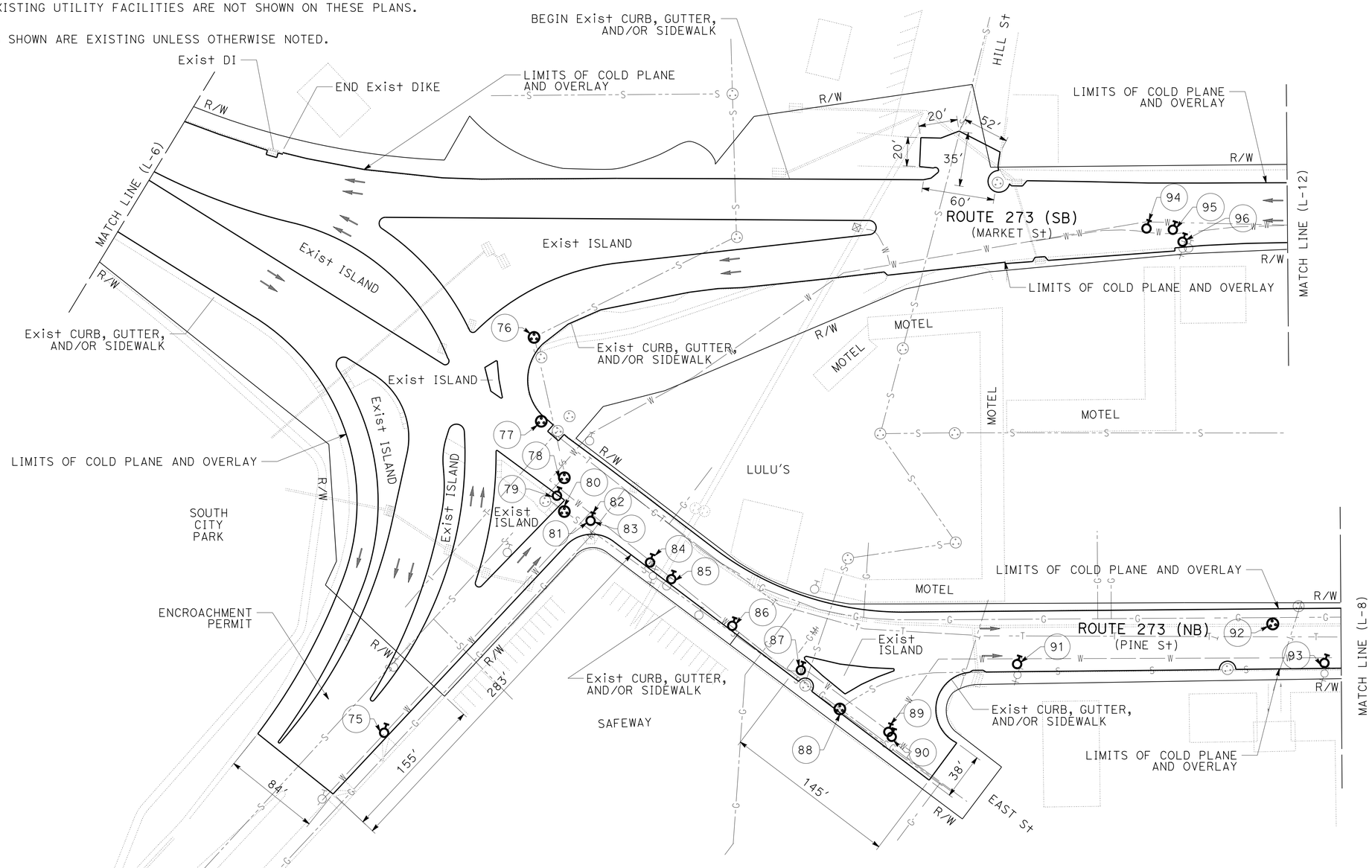

LAYOUT

NO SCALE

L-7

REVISED BY	DATE REVISED
MICHAEL CONNER	KARLIE SMITH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	11	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES (THIS SHEET ONLY):

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2. 11 EA ADJUST WATER VALVE BOX
   3 EA ADJUST SANITARY SEWER MANHOLE
   3 EA ADJUST STORM DRAIN MANHOLE
   2 EA ADJUST TELEPHONE MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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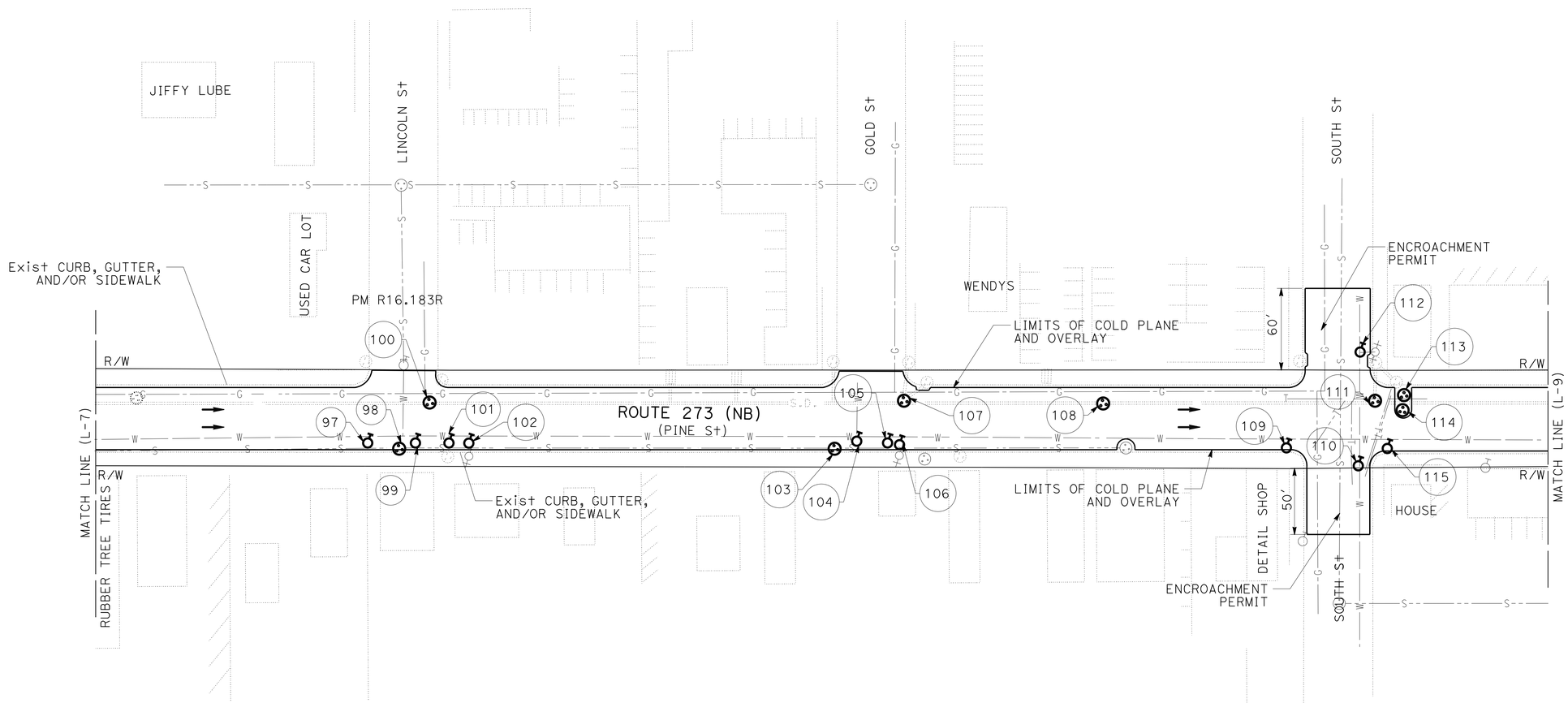

LAYOUT

NO SCALE

L-8

REVISED BY	DATE REVISED

MICHAEL CONNER — KARLIE SMITH

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	12	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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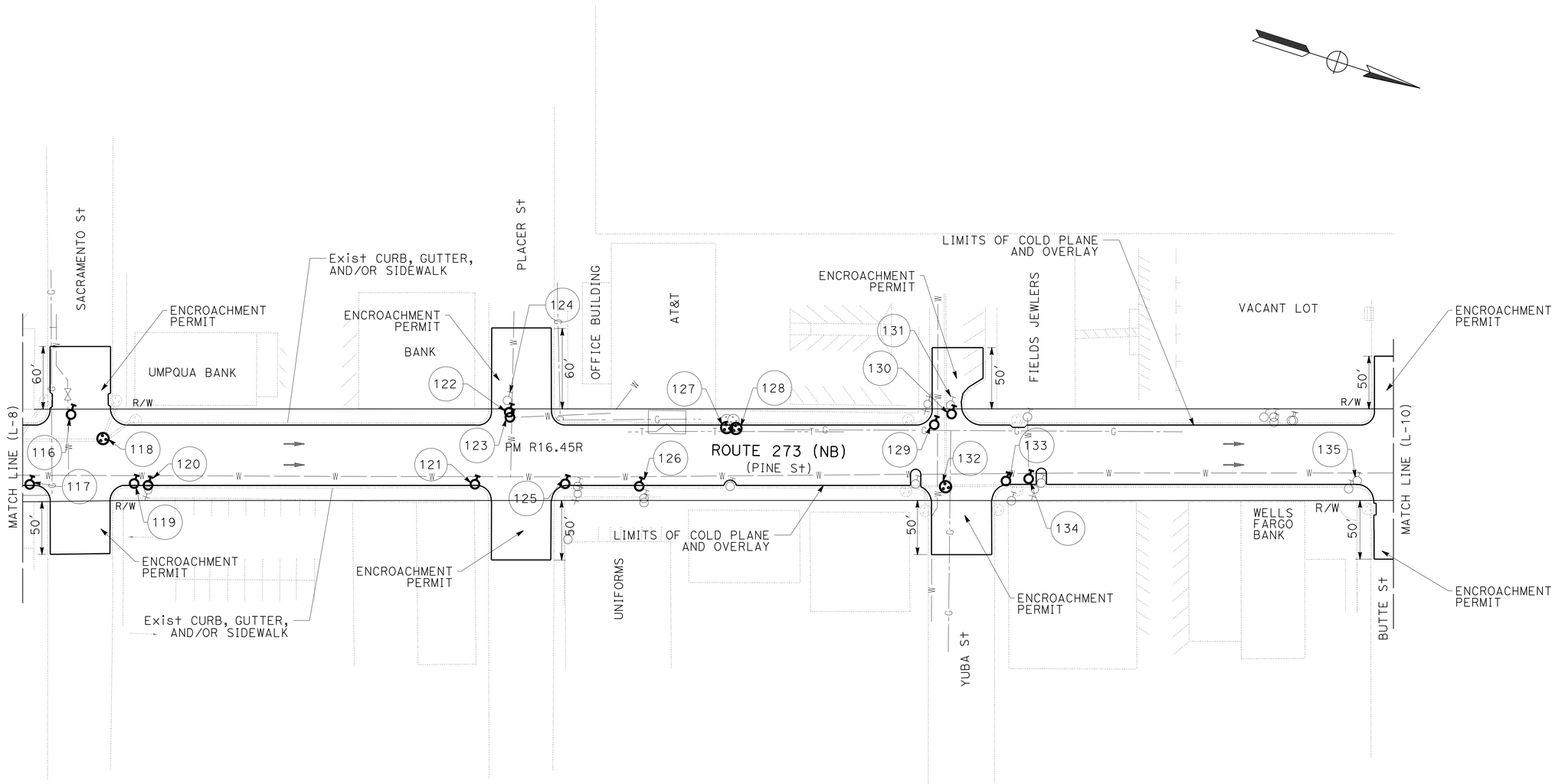
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

2. 16 EA ADJUST WATER VALVE BOX
   1 EA ADJUST SANITARY SEWER MANHOLE
   1 EA ADJUST STORM DRAIN MANHOLE
   2 EA ADJUST TELEPHONE MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

4. UTILITIES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.



LAYOUT

NO SCALE

L-9

REVISED BY	DATE REVISED
MICHAEL CONNER	
KARLIE SMITH	

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	13	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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

NOTES (THIS SHEET ONLY):

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

2. 24 EA ADJUST WATER VALVE BOX
   4 EA ADJUST SANITARY SEWER MANHOLE
   1 EA ADJUST STORM DRAIN MANHOLE
   1 EA ADJUST TELEPHONE MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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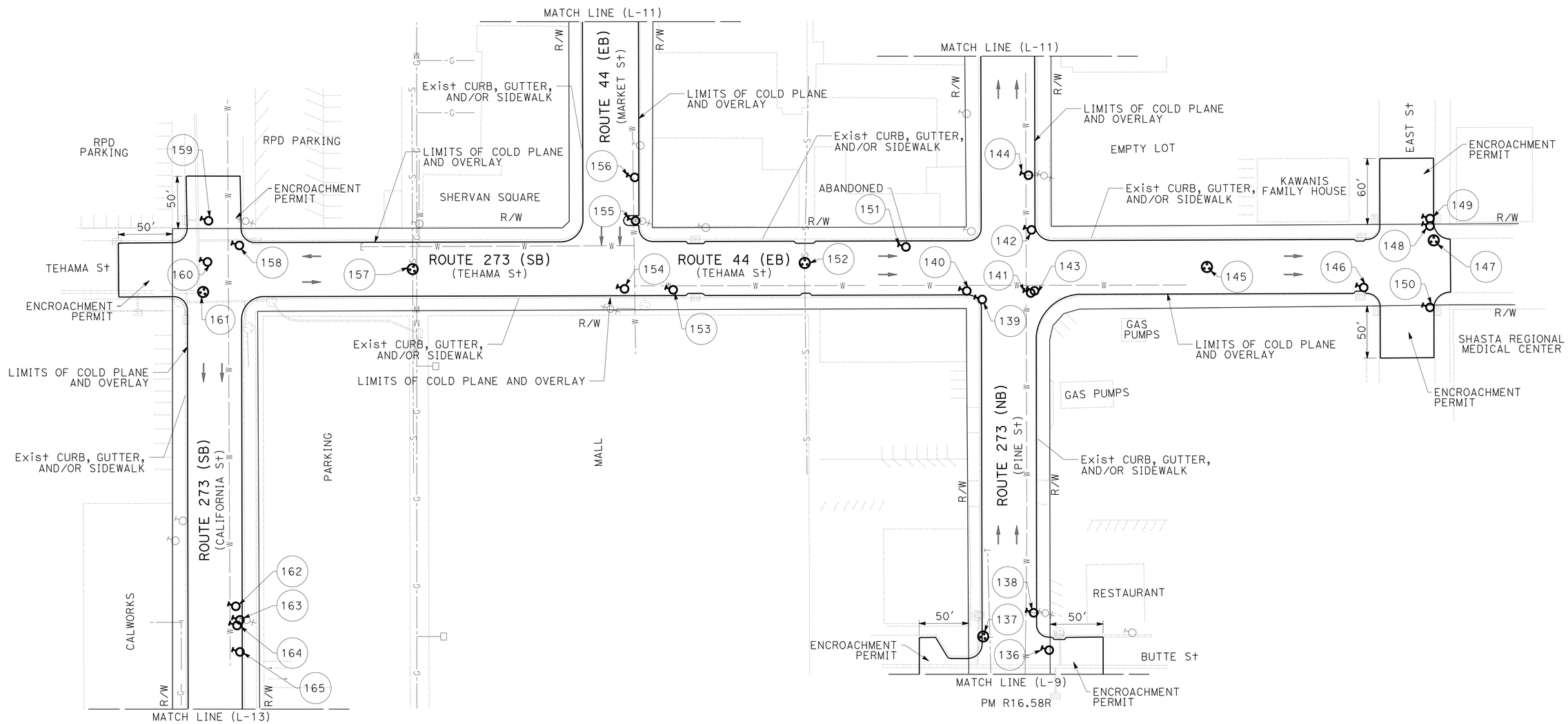

LAYOUT

NO SCALE

L-10

REVISED BY	DATE REVISED
MICHAEL CONNER	KARLIE SMITH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

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

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

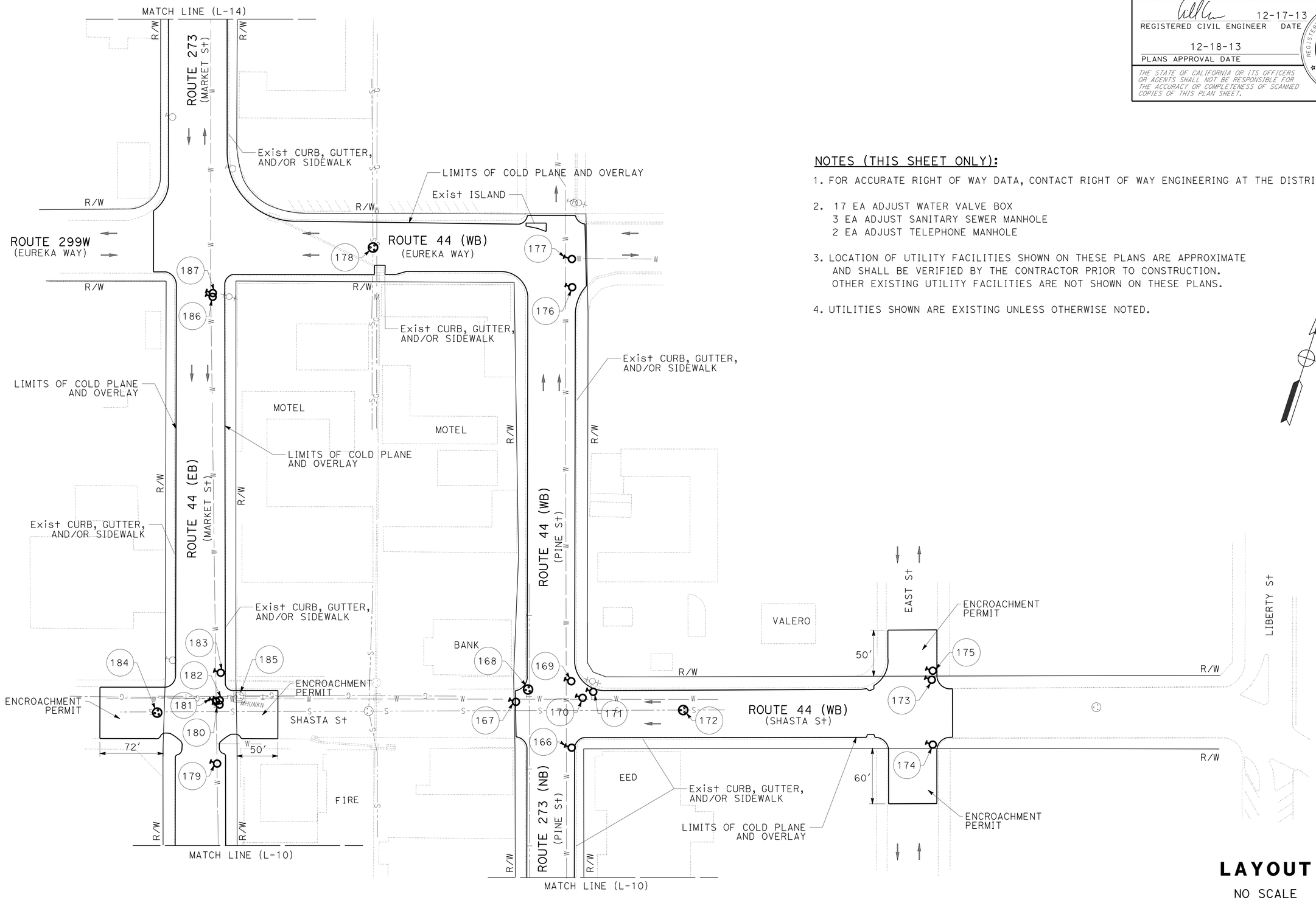
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	14	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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



NOTES (THIS SHEET ONLY):

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. 17 EA ADJUST WATER VALVE BOX
   3 EA ADJUST SANITARY SEWER MANHOLE
   2 EA ADJUST TELEPHONE MANHOLE
3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
4. UTILITIES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.

LAYOUT

NO SCALE

L-11

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	15	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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

NOTES (THIS SHEET ONLY):

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

2. 12 EA ADJUST WATER VALVE BOX
   3 EA ADJUST SANITARY SEWER MANHOLE
   1 EA ADJUST STORM DRAIN MANHOLE
   1 EA ADJUST TELEPHONE MANHOLE
   1 EA ADJUST GAS COVER

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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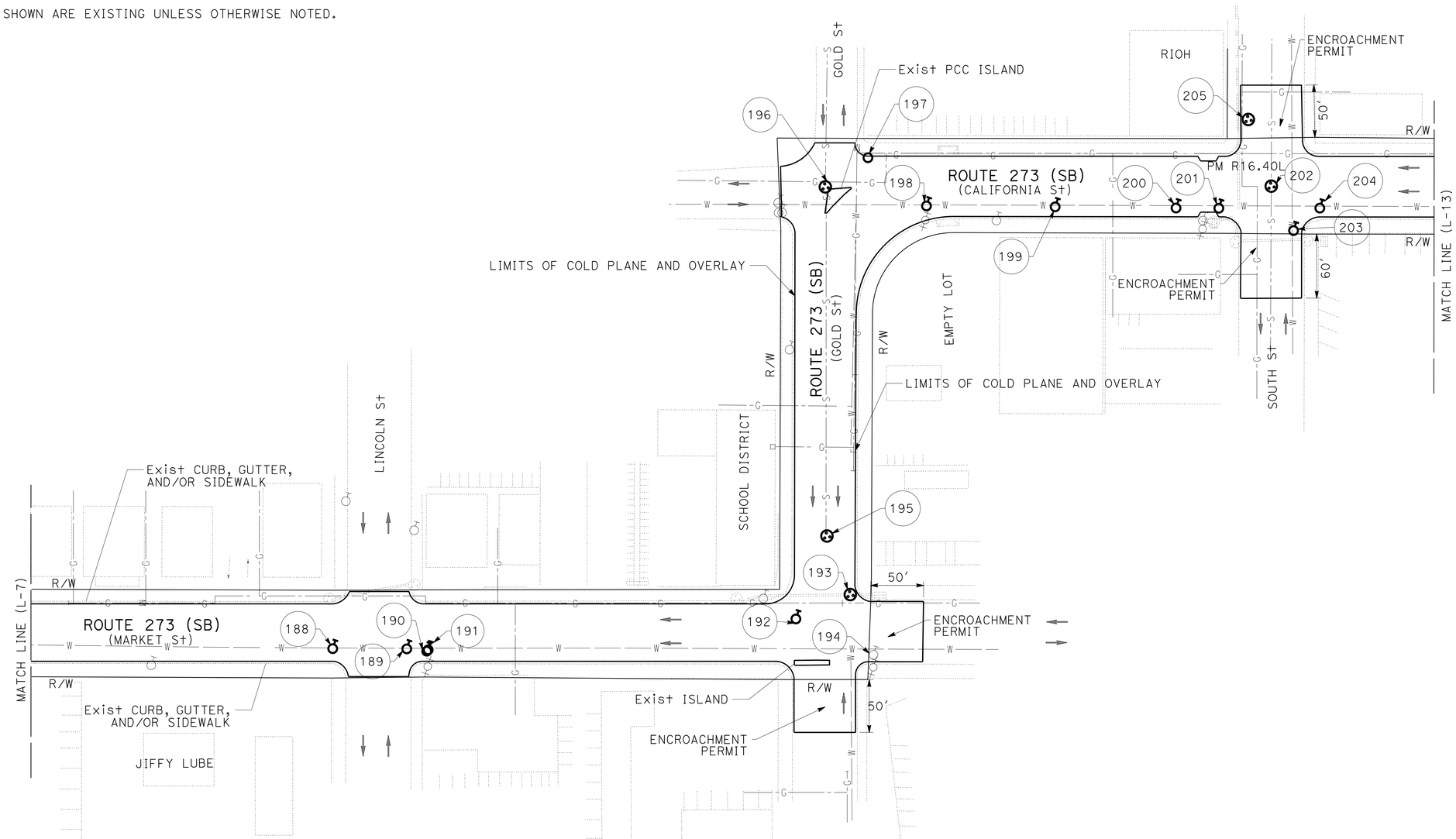

LAYOUT

NO SCALE

L-12

LAST REVISION	DATE PLOTTED => 17-JAN-2014
12-18-13	TIME PLOTTED => 10:12

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

FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED-DESIGNED BY: MICHAEL CONNER
CHECKED BY: KARLIE SMITH
REVISED BY / DATE REVISED

P:\proj\02\4G150_plans\pse\24g150ea012.dgn

BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 24g150ea012.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0156 | PROJECT NUMBER & PHASE 02-1300-0080-1 | EA 02-4G1501

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	16	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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   2 EA ADJUST SANITARY SEWER MANHOLE
   1 EA ADJUST STORM DRAIN MANHOLE
   1 EA ADJUST TELEPHONE MANHOLE
   1 EA ADJUST GAS COVER

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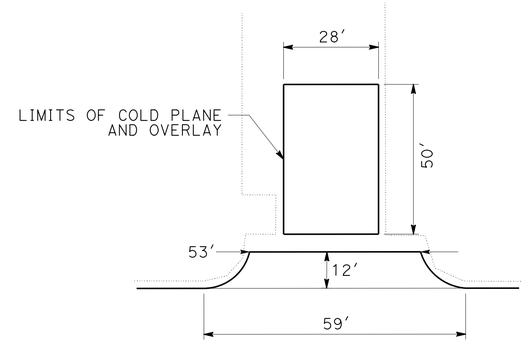
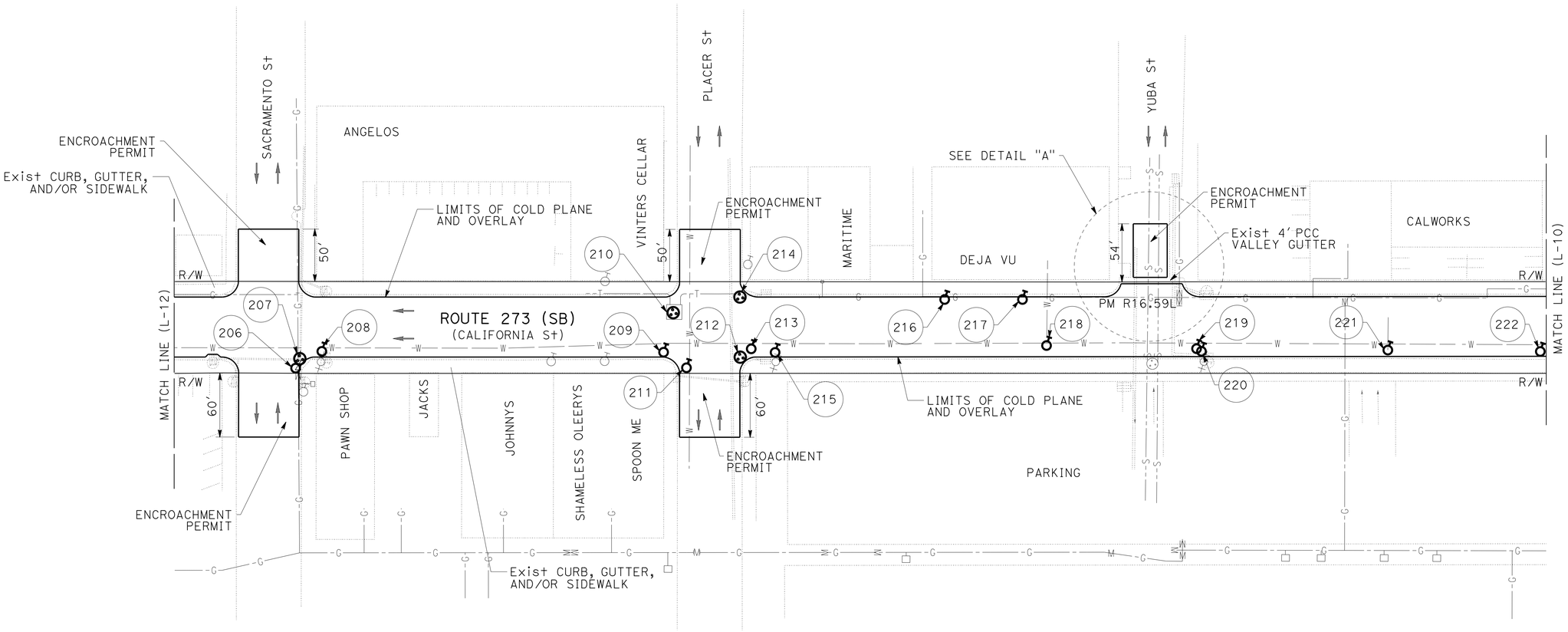


DETAIL A



LAYOUT

NO SCALE

L-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED-DESIGNED BY: MICHAEL CONNER
CHECKED BY: KARLIE SMITH
REVISED BY / DATE REVISED

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 24g150ea013.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0156 | PROJECT NUMBER & PHASE 02-1300-0080-1 | EA 02-4G1501

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	17	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTES (THIS SHEET ONLY):

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

2. 4 EA ADJUST WATER VALVE BOX
   1 EA ADJUST SANITARY SEWER MANHOLE
   3 EA ADJUST TELEPHONE MANHOLE

3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. OTHER EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

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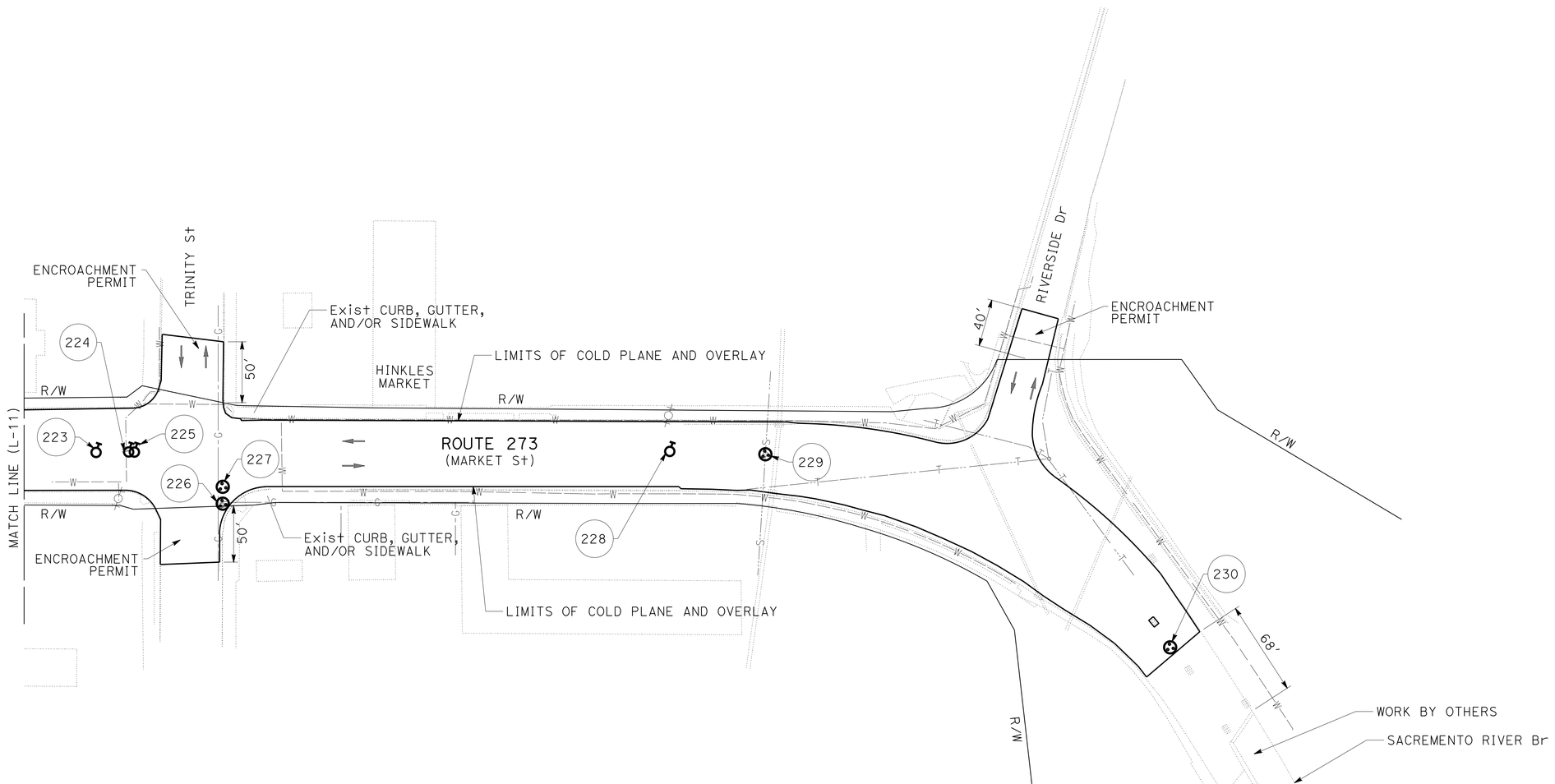

LAYOUT

NO SCALE

L-14

REVISED BY	
DATE REVISED	
MICHAEL CONNER	CALCULATED-DESIGNED BY
KARLIE SMITH	CHECKED BY
FUNCTIONAL SUPERVISOR	
LANCE BROWN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	18	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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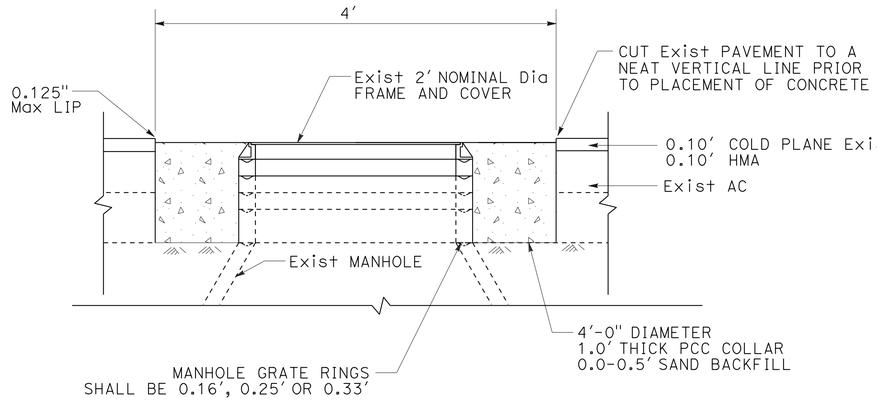
NOTES:

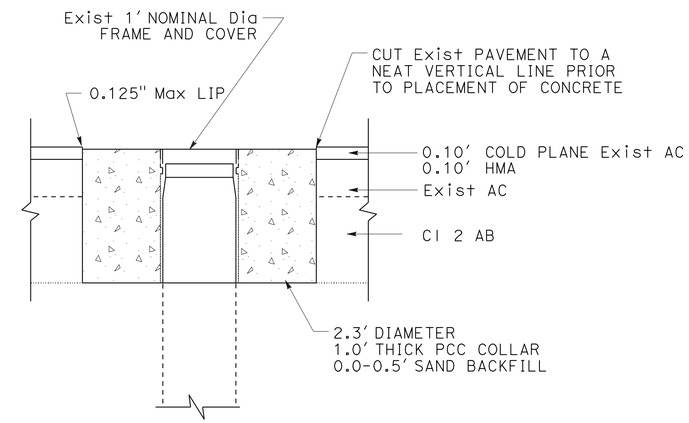
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Exist UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ROAD CONNECTIONS

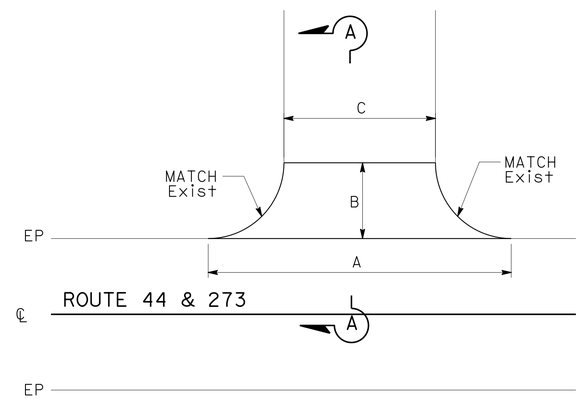
Rte	Dir	ROAD CONNECTION	SIDE	PM	DIMENSIONS (LF) A	B	C
273	NB/SB	WYNDHAM Ln	R+	14.96	140	98	28
		DRIVEWAY	L+	14.96	62	40	30
		VEDA St	L+	15.10	51	8	36
		ELLIS St	R+	15.15	64	89	36
		GRANGE St	L+	15.43	52	12	36
		GRANGE St	R+	15.43	94	12	27
		SPRUCE St	L+	15.51	65	12	36
		FELL St	R+	15.54	100	17	42
		ELMWOOD St	L+	15.54	46	7.5	29
		ANGELO St	R+	15.66	101	50	37
		CALIFORNIA St	L+	15.66	132	92	24
		CYPRESS Ave	R+	15.97R	SEE L-7		
		CYPRESS Ave Conn	L+	15.97R	SEE L-7		
	NB	EAST St	R+	16.05R	SEE L-7		
		LINCOLN St	L+	16.18R	61.5	12	52
		GOLD St	L+	16.25R	62	12	52
		SOUTH St	R+	R16.32R	58	62	53
		SOUTH St	L+	R16.32R	61	72	55
		SACRAMENTO St	R+	R16.36R	58	62	52
		SACRAMENTO St	L+	R16.36R	59	72	52
		PLACER St	R+	R16.45R	60	62	53
		PLACER St	L+	R16.45R	60	72	53
		YUBA St	R+	R16.51R	61	62	54
		YUBA St	L+	R16.51R	36	62	44
		BUTTE St	R+	R16.58R	59	62	51
		BUTTE St	L+	R16.58R	40	62	52
	SB	HILL St	R+	16.05L	SEE L-7		
		LINCOLN St	L+	16.18L	59	12	52
		LINCOLN St	R+	16.18L	58	12	51
		GOLD St	L+	R16.26L	65	62	52
		MARKET St	L+	R16.26L	68	62	51
		CALIFORNIA St	R+	R16.33L	61	12	44
		GOLD St	R+	R16.33L	65	12	35
		SOUTH St	L+	R16.40L	59.5	72	50
		SOUTH St	R+	R16.40L	59.5	62	53
		SACRAMENTO St	L+	R16.44L	59	72	53
		SACRAMENTO St	R+	R16.44L	63	62	52
		PLACER St	L+	R16.51L	67	72	52
		PLACER St	R+	R16.51L	70	62	53
		YUBA St	R+	R16.59L	SEE L-13		
		TEHAMA St	R+	R16.73L	64	62	51
		CALIFORNIA St	R+	R16.73L	58	62	51
	NB/SB	TRINITY St	R+	16.91	115	62	56
		TRINITY St	L+	16.91	70	62	52
		RIVERSIDE Dr	L+	17.03	103	112	27
44	EB	EUREKA WAY	R+	L0.00R	135	18.5	75
		SHASTA St	R+	L0.10R	74	84	50
		SHASTA St	L+	L0.10R	54	62	49
		EAST St	R+	L0.31R	59	62	51
		EAST St	L+	L0.31R	58	72	51
	WB	PINE St	L+	L0.07L	63	12	53
		EUREKA WAY	L+	L0.07L	83	12	60
		SHASTA St	R+	L0.17L	59	12	51
		EAST St	R+	L0.24L	55	72	52
		EAST St	L+	L0.24L	81	62	59



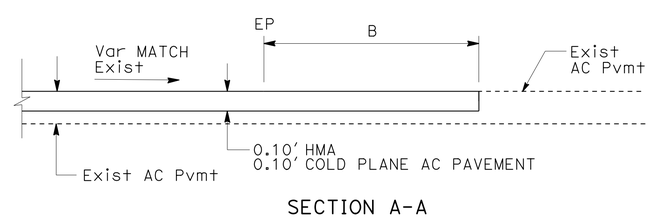
ADJUST SANITARY SEWER AND UTILITY COVER MANHOLE DETAIL



ADJUST WATER VALVE BOX DETAIL



DETAIL FOR ROAD CONNECTIONS



SECTION A-A

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	19	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

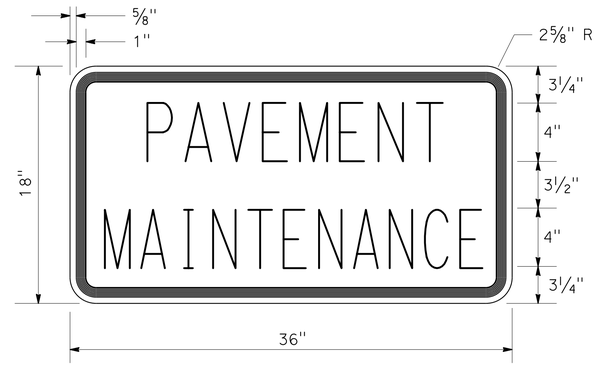
12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

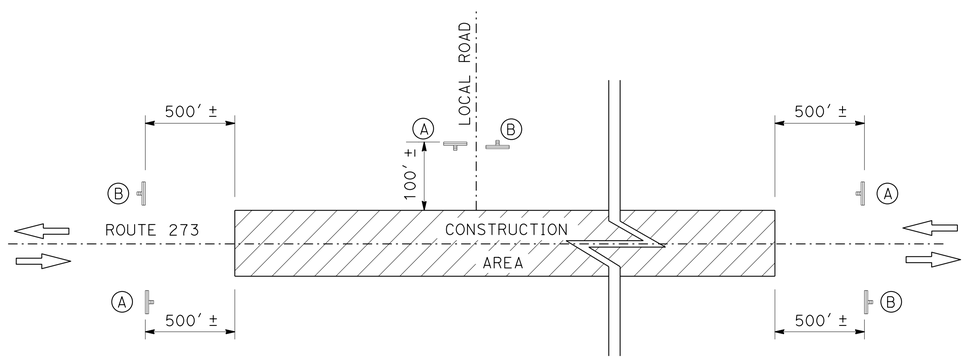
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

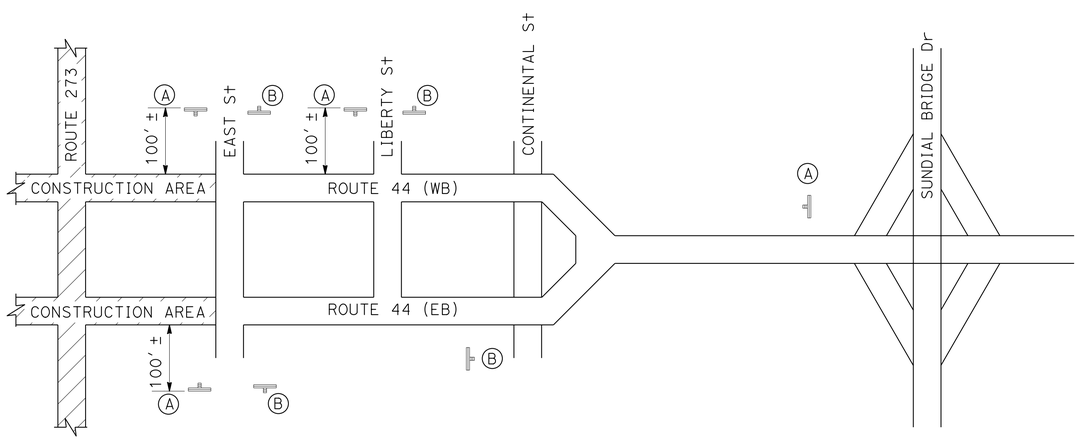
NOTES:

1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



C23B(CA) SIGN PANEL DETAIL





CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

ROAD CONNECTIONS

Rte	Dir	PM	DESCRIPTION	(A)	(B)
273	NB/SB	14.96	WYNDHAM Ln	R+	R+
		15.10	VEDA St	L+	L+
		15.15	ELLIS St	R+	R+
		15.43	GRANGE St	R+/L+	R+/L+
		15.51	SPRUCE St	L+	L+
		15.54	FELL St/ELMWOOD St	R+/L+	R+/L+
		15.66	ANGELO St/CALIFORNIA St	R+/L+	R+/L+
		15.81	PARKVIEW Ave	R+	R+
	NB	15.97R	CYPRESS Ave	R+	R+
		16.05R	EAST St	R+	R+
		16.18R	LINCOLN St	L+	L+
		16.25R	GOLD St	L+	L+
		R16.32R	SOUTH St	R+/L+	R+/L+
		R16.36R	SACRAMENTO St	R+/L+	R+/L+
		R16.45R	PLACER St	R+/L+	R+/L+
		R16.51R	YUBA ST	R+/L+	R+/L+
		R16.58R	BUTTE St	R+/L+	R+/L+
	SB	16.05L	HILL St	R+	R+
		16.18L	LINCOLN St	R+/L+	R+/L+
		R16.26L	GOLD St & MARKET St	L+	L+
		R16.33L	CALIFORNIA St & GOLD St	R+	R+
		R16.40L	SOUTH St	R+/L+	R+/L+
		R16.44L	SACRAMENTO St	R+/L+	R+/L+
		R16.51L	PLACER St	R+/L+	R+/L+
		R16.59L	YUBA ST	R+	R+
		R16.73L	TEHAMA St & CALIFORNIA St	R+	R+
	NB/SB	16.91	TRINITY St	R+/L+	R+/L+
		17.03	RIVERSIDE Dr	L+	L+
44	EB	L0.00R	EUREKA WAY	R+	R+
		L0.10R	SHASTA St	R+/L+	R+/L+
		L0.31R	EAST St	R+/L+	R+/L+
	WB	L0.07L	PINE St & EUREKA WAY	L+	L+
		L0.17L	SHASTA St	R+	R+
		L0.24L	EAST St	R+/L+	R+/L+

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

TYPE	CODE	PANEL SIZE	SIGN MESSAGE	No. AND SIZE OF POST	No. OF SIGNS
(A)	W20-1 C23B(CA)	48" x 48" 36" x 18"	ROAD WORK AHEAD PAVEMENT MAINTENANCE	1-4" x 6"	60
(B)	G20-2	36" x 18"	END ROAD WORK	1-4" x 4"	60

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	20	60

12-17-13
REGISTERED CIVIL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

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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) PRE-NOTIFICATION PCMS: ACTIVATE 7 DAYS PRIOR TO CLOSURE.

ROAD WILL BE CLOSED	OR	SB 273 WILL BE CLOSED		DAY - DAY XX:XXPM-XX:XXAM
FRAME 1		FRAME 1		FRAME 2

(2) ACTIVATE DURING CLOSURE.

ROAD CLOSED	OR	RIGHT LANE CLOSED	FOLLOW DETOUR
FRAME 1		FRAME 1	FRAME 2

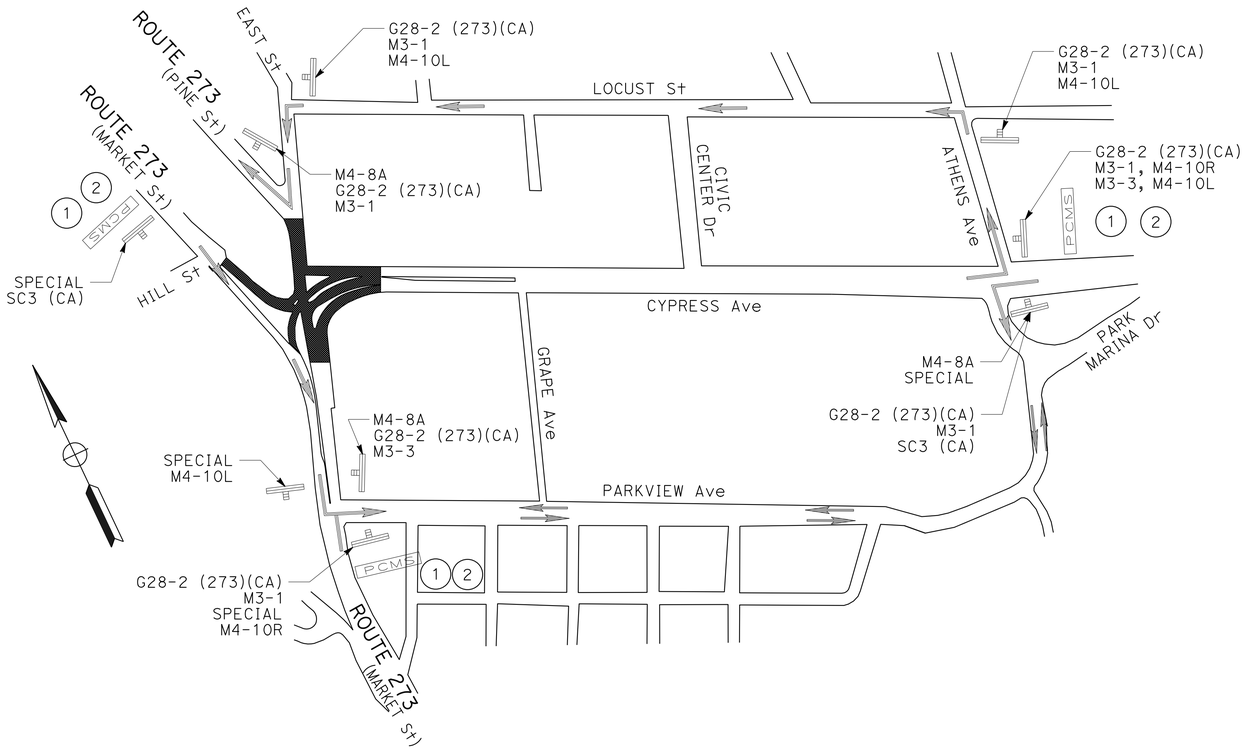
3. EXACT SIGN LOCATION AND PCMS MESSAGE TO BE DETERMINED BY THE ENGINEER.
4. Exist UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:

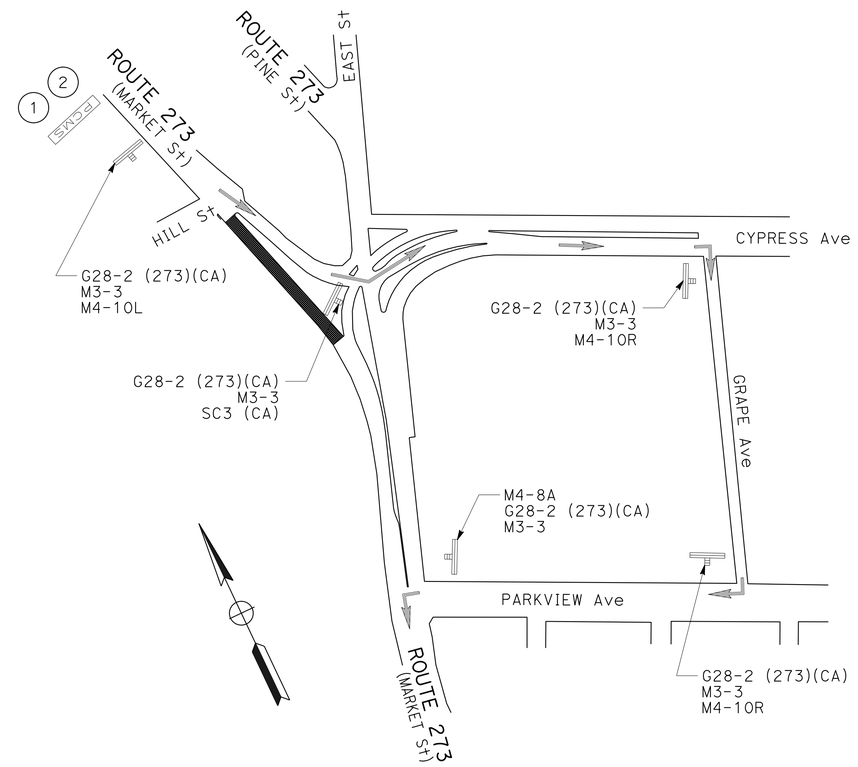
- WORK ZONE
- PCMS — PORTABLE CHANGABLE MESSAGE SIGN
- CONSTRUCTION AREA SIGN (PORTABLE)

CONSTRUCTION AREA SIGNS (PORTABLE)

CODE	PANEL SIZE	PANEL MESSAGE
G28-2 (273)(CA)	21" x 18"	273
M3-1	24" x 12"	NORTH
M3-3	24" x 12"	SOUTH
M4-8A	24" x 18"	END DETOUR
M4-10L	48" x 18"	DETOUR (Lt ARROW)
M4-10R	48" x 18"	DETOUR (Rt ARROW)
SC3 (CA)	48" x 18"	DETOUR (UP ARROW)
SPECIAL	24" x 30"	CYPRESS Ave



FULL CLOSURE AT THE INTERSECTION OF CYPRESS AVENUE AND ROUTE 273 DETOUR



CLOSURE OF SOUTHBOUND ROUTE 273 DETOUR

DETOUR PLAN

NO SCALE

DE-1

APPROVED FOR DETOUR WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MICHAEL CONNER	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	21	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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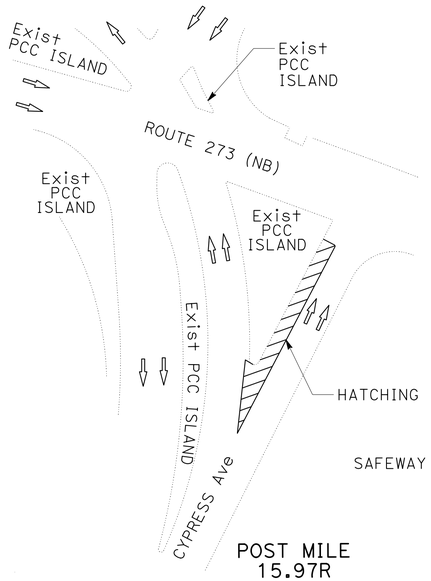
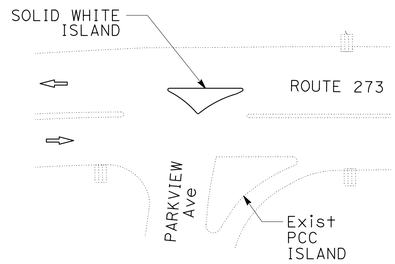
NOTES:

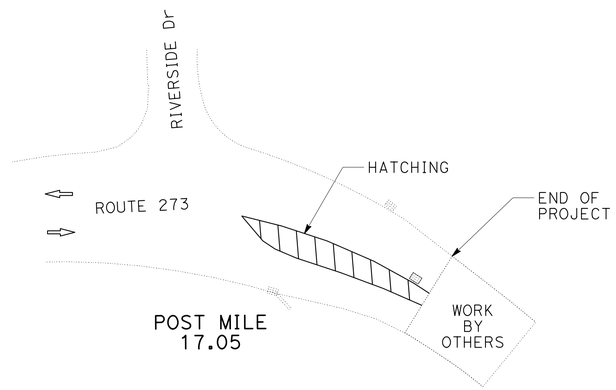
1. Exist UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. INSTALL 7 EACH MOTORCYCLE PARKING STALLS ON A 60 DEGREE ANGLE WITH 4 INCH WHITE THERMOPLASTIC LINES.
3. INSTALL 12 INCH WHITE LINE CROSS HATCH IN NON-PARKING AREAS WITH THERMOPLASTIC.



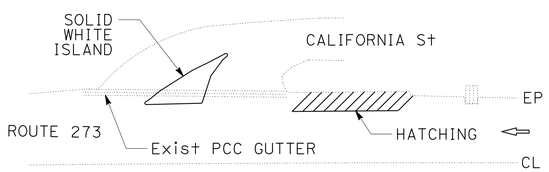
POST MILE 15.97R



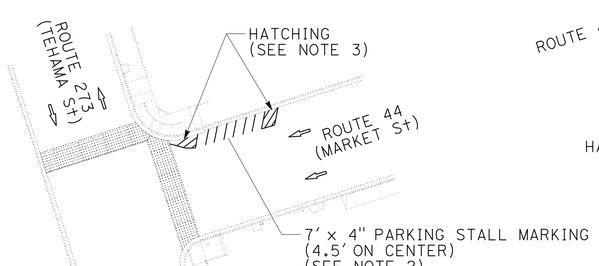
POST MILE 15.81



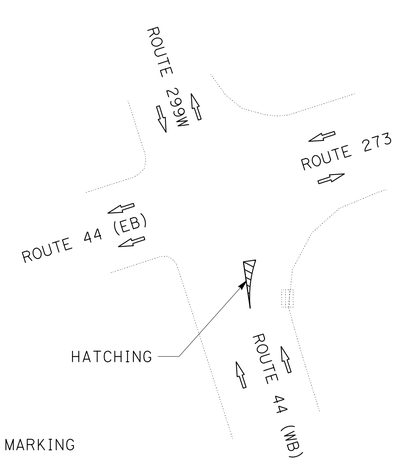
POST MILE 17.05



POST MILE 15.66

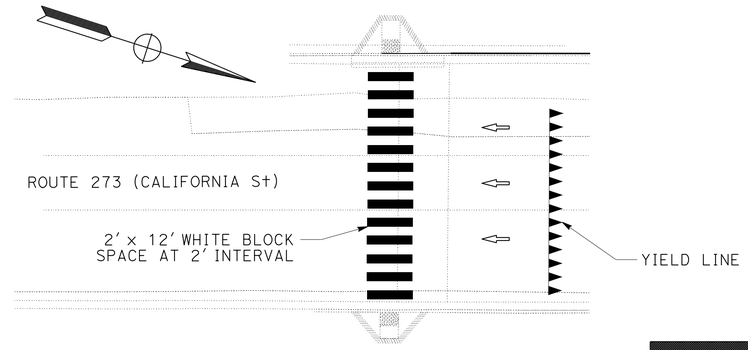


POST MILE L0.16R



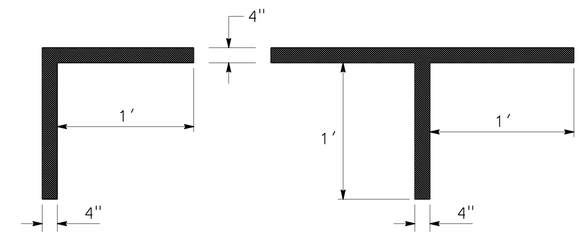
POST MILE L0.00L

DELINEATED ISLAND DETAILS



CROSSWALK DETAIL

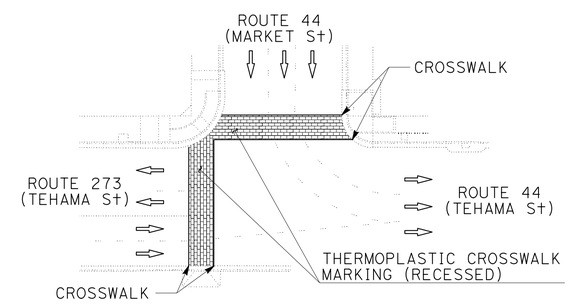
Sha-273- R16.66L



AREA = 0.8 SQFT
TYPE I

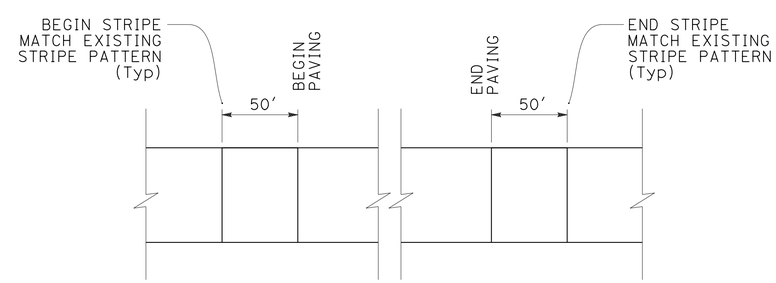
AREA = 1.1 SQFT
TYPE II

PARKING STALL MARKINGS

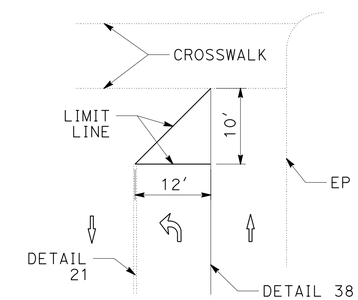


RECESSED CROSSWALK DETAIL

Sha-44- L0.17R



TRAFFIC STRIPE MATCH DETAIL



DELTA LIMIT LINE DETAIL

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED-DESIGNED BY: MICHAEL CONNER
CHECKED BY: KARLIE SMITH
REVISED BY / DATE REVISED

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	22	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 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.

NOTE:

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

ABBREVIATIONS:

Dir DIRECTION
Mid MIDDLE

THERMOPLASTIC PAVEMENT MARKING

Rte	Dir	POST MILE	Lt	Mid	Rt	(N) EA	SQFT	REMARKS
273	NB/ SB	14.57			X	1	42.0	TYPE III (R) ARROW
		14.92			X	2	66.0	TYPE V ARROW
		14.95			X	1	26.0	LIMIT LINE
		14.96			X	1	35.0	ROAD CONNECTION LIMIT LINE
		14.96			X	1	42.0	TYPE III (L) ARROW
		14.96			X	1	42.0	TYPE III (R) ARROW
		14.97			X	1	139.0	CROSSWALK
		14.98	X		X	4	132.0	TYPE V ARROW
		14.99	X			2	66.0	TYPE V ARROW
		14.99	X			1	15.0	TYPE IV (L) ARROW
		15.01			X	2	66.0	TYPE V ARROW
		15.01			X	1	28.0	ROAD CONNECTION LIMIT LINE
		15.01			X	1	22.0	STOP
		15.04	X			1	15.0	TYPE IV (L) ARROW
		15.05			X	2	66.0	TYPE V ARROW
		15.07			X	2	66.0	TYPE V ARROW
		15.10	X		X	2	61.0	ROAD CONNECTION LIMIT LINE
		15.10	X		X	2	44.0	STOP
		15.11	X		X	4	132.0	TYPE V ARROW
		15.11			X	1	15.0	TYPE IV (L) ARROW
		15.12	X			2	66.0	TYPE V ARROW
		15.12			X	1	15.0	TYPE IV (L) ARROW
		15.14			X	2	66.0	TYPE V ARROW
		15.15	X		X	2	273.0	CROSSWALK
		15.15	X			2	39.0	LIMIT LINE
		15.16	X			2	66.0	TYPE V ARROW
		15.18	X			2	66.0	TYPE V ARROW
		15.18	X			1	15.0	TYPE IV (L) ARROW
		15.19			X	1	15.0	TYPE IV (L) ARROW
		15.25	X			1	15.0	TYPE IV (L) ARROW
		15.26			X	1	15.0	TYPE IV (L) ARROW
		15.29		X		2	30.0	TYPE IV (L) ARROW
		15.31		X		2	30.0	TYPE IV (L) ARROW
		15.35	X			1	15.0	TYPE IV (L) ARROW
		15.39			X	1	15.0	TYPE IV (L) ARROW
		15.42	X			1	15.0	TYPE IV (L) ARROW
		15.42			X	2	66.0	TYPE V ARROW
		15.43	X		X	4	535.0	CROSSWALK
		15.43	X			1	22.0	STOP
		15.43	X			1	15.0	TYPE IV (L) ARROW
		15.48	X			1	15.0	TYPE IV (L) ARROW
		15.48	X			2	66.0	TYPE V ARROW
		15.51	X			1	22.0	ROAD CONNECTION LIMIT LINE
		15.51	X			1	22.0	STOP
		15.51		X		2	66.0	TYPE V ARROW
		15.52	X			2	66.0	TYPE V ARROW
		15.54	X		X	3	99.0	TYPE V ARROW
		15.54	X	X		3	45.0	TYPE IV (L) ARROW
		15.54	X		X	2	63.0	ROAD CONNECTION LIMIT LINE
		15.54	X		X	2	44.0	STOP
		15.58		X		2	30.0	TYPE IV (L) ARROW
		15.58	X			2	66.0	TYPE V ARROW
		15.60	X			2	30.0	TYPE IV (L) ARROW
		15.60	X			1	33.0	TYPE V ARROW
		15.62			X	1	15.0	TYPE IV (L) ARROW
		15.62			X	1	15.0	TYPE IV (R) ARROW
		15.63			X	2	66.0	TYPE V ARROW
		15.65			X	2	66.0	TYPE V ARROW
		15.65			X	1	15.0	TYPE IV (L) ARROW
SUBTOTAL							3358.0	

THERMOPLASTIC PAVEMENT MARKING (CONTINUED)

Rte	Dir	POST MILE	Lt	Mid	Rt	(N) EA	SQFT	REMARKS
273	NB/ SB	15.65			X	1	15.0	TYPE IV (R) ARROW
		15.66	X		X	5	132.0	ROAD CONNECTION LIMIT LINE
		15.66	X		X	1	195.0	CROSSWALK
		15.66				1	680.0	DELINEATED ISLAND
		15.67	X			1	33.0	TYPE V ARROW
		15.67	X			1	45.0	TYPE II (R) ARROW
		15.67	X			1	15.0	TYPE IV (L) ARROW
		15.67	X			1	132.0	DELINEATED ISLAND
		15.69	X			1	33.0	TYPE V ARROW
		15.69	X			1	15.0	TYPE IV (L) ARROW
		15.69	X			1	45.0	TYPE II (R) ARROW
		15.77			X	2	66.0	TYPE V ARROW
		15.79			X	2	66.0	TYPE V ARROW
		15.81		X		1	330.0	DELINEATED ISLAND
		15.82	X			2	66.0	TYPE V ARROW
		15.82	X			1	15.0	TYPE IV (L) ARROW
		15.83	X			2	66.0	TYPE V ARROW
		15.83	X			1	15.0	TYPE IV (L) ARROW
		15.89			X	1	15.0	TYPE IV (L) ARROW
	NB	15.93R		X		2	66.0	TYPE V ARROW
		15.93R		X		1	27.0	TYPE VII (R) ARROW
		15.93R			X	1	15.0	TYPE IV (R) ARROW
		15.95R		X		2	66.0	TYPE V ARROW
		15.96R		X		1	27.0	TYPE VII (R) ARROW
		15.96R			X	1	9.0	YIELD LINE
		15.97R		X	X	5	324.0	CROSSWALK
		15.97R		X		1	69.0	ROAD CONNECTION LIMIT LINE
		15.97R		X		3	99.0	TYPE V ARROW
		15.97R			X	2	50.0	TYPE I 18'-0" ARROW
		15.97R			X	3	45.0	TYPE IV (R) ARROW
		15.97R			X	1	27.0	TYPE VII (L) ARROW
		15.97R			X	2	84.0	TYPE III (R) ARROW
		15.97R			X	1	161.0	DELINEATED ISLAND
		16.05R			X	1	33.0	TYPE V ARROW
		16.05R			X	2	43.0	ROAD CONNECTION LIMIT LINE
		16.15R		X		3	99.0	TYPE V ARROW
		16.17R		X		3	99.0	TYPE V ARROW
		16.18R	X			1	117.0	CROSSWALK
		16.22R		X		3	99.0	TYPE V ARROW
		16.24R		X		3	99.0	TYPE V ARROW
		16.25R	X			1	112.0	CROSSWALK
		R16.29R		X		3	99.0	TYPE V ARROW
		R16.30R		X		1	15.0	TYPE IV (L) ARROW
		R16.31R		X		3	99.0	TYPE V ARROW
		R16.32R	X	X	X	4	453.0	CROSSWALK
		R16.32R	X			1	27.5	DELTA LIMIT LINE
		R16.33R		X		3	99.0	TYPE V ARROW
		R16.35R		X		3	99.0	TYPE V ARROW
		R16.36R	X	X	X	4	443.0	CROSSWALK
		R16.36R	X			1	27.5	DELTA LIMIT LINE
		R16.36R	X				74.0	4" PARKING STALL
		R16.39R		X		3	99.0	TYPE V ARROW
		R16.41R		X		3	99.0	TYPE V ARROW
		R16.45R	X	X	X	4	448.0	CROSSWALK
		R16.45R	X			1	27.5	DELTA LIMIT LINE
		R16.51R		X		6	198.0	TYPE V ARROW
		R16.51R	X	X	X	4	393.0	CROSSWALK
		R16.51R	X		X		40.0	4" PARKING STALL
		R16.56R		X		3	99.0	TYPE V ARROW
SUBTOTAL							6588.5	

THERMOPLASTIC PAVEMENT MARKING (CONTINUED)

Rte	Dir	POST MILE	Lt	Mid	Rt	(N) EA	SQFT	REMARKS
273	NB	R16.57R		X		3	99.0	TYPE V ARROW
		R16.58R	X	X	X	4	393.0	CROSSWALK
		R16.58R	X				20.0	4" PARKING STALL
		R16.64R		X		3	99.0	TYPE V ARROW
		R16.65R		X		2	66.0	TYPE V ARROW
		R16.65R		X		1	27.0	TYPE VII (R) ARROW
		R16.66R	X	X	X	4	452.0	CROSSWALK
		R16.71R		X		3	99.0	TYPE V ARROW
		R16.72R		X		3	99.0	TYPE V ARROW
		R16.36R-R16.73R			X	38	30.4	TYPE I PARKING STALL
		R16.36R-R16.73R			X	14	15.4	TYPE II PARKING STALL
		R16.45R-R16.73R	X			26	20.8	TYPE I PARKING STALL
		R16.45R-R16.73R	X			9	9.9	TYPE II PARKING STALL
	SB	15.97L		X		5	122.0	ROAD CONNECTION LIMIT LINE
		16.05L			X	1	30.0	ROAD CONNECTION LIMIT LINE
		16.05L			X	1	22.0	STOP
		16.06L		X		2	66.0	TYPE V ARROW
		16.08L		X		2	66.0	TYPE V ARROW
		16.18L	X	X	X	4	420.0	CROSSWALK
		16.18L	X		X	2	44.0	STOP
		16.19L		X		3	99.0	TYPE V ARROW
		16.22L		X		3	99.0	TYPE V ARROW
		R16.26L	X	X	X	3	331.0	CROSSWALK
		R16.26L	X				20.0	4" PARKING STALL
		R16.27L		X		1	33.0	TYPE V ARROW
		R16.30L		X		1	33.0	TYPE V ARROW
		R16.33L		X		1	33.0	TYPE V ARROW
		R16.33L			X	2	169.0	CROSSWALK
		R16.35L		X		1	110.0	CROSSWALK
		R16.36L		X		3	99.0	TYPE V ARROW
		R16.38L		X		3	99.0	TYPE V ARROW
		R16.40L	X	X	X	4	445.0	CROSSWALK
		R16.40L	X			1	27.5	DELTA LIMIT LINE
		R16.41L		X		3	99.0	TYPE V ARROW
		R16.43L		X		3	99.0	TYPE V ARROW
		R16.44L	X	X	X	4	447.0	CROSSWALK
		R16.44L	X			1	27.5	DELTA LIMIT LINE
		R16.44L	X				43.7	4" PARKING STALL
		R16.46L		X		3	99.0	TYPE V ARROW
		R16.48L		X		3	99.0	TYPE V ARROW
		R16.51L	X	X	X	4	444.0	CROSSWALK
		R16.51L	X			1	27.5	DELTA LIMIT LINE
		R16.53L		X		3	99.0	TYPE V ARROW
		R16.53L		X		1	15.0	TYPE IV (L) ARROW
		R16.55L		X		3	99.0	TYPE V ARROW
		R16.55L		X		1	15.0	TYPE IV (L) ARROW
		R16.59L		X	X	3	328.0	CROSSWALK
		R16.59L			X	1	28.0	TRANSVERSE RR LINE
		R16.60L		X		3	99.0	TYPE V ARROW
SUBTOTAL							5866.7	
SHEET TOTAL							15,813.2	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	23	60

12-17-13
REGISTERED CIVIL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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NOTE:
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THERMOPLASTIC PAVEMENT MARKING (CONTINUED)

Rte	Dir	POST MILE	Lt	Mid	Rt	(N) EA	SQFT	REMARKS
273	SB	R16.60L		X		1	15.0	TYPE IV (L) ARROW
		R16.62L		X		1	15.0	TYPE IV (L) ARROW
		R16.63L		X		3	99.0	TYPE V ARROW
		R16.66L		X		1	260.0	CROSSWALK
		R16.66L		X		1	45.0	YIELD LINE
		R16.66L		X		3	99.0	TYPE V ARROW
		R16.70L		X		3	99.0	TYPE V ARROW
		R16.73L	X	X	X	4	436.0	CROSSWALK
		R16.73L		X		1	26.0	ROAD CONNECTION LIMIT LINE
		R16.73L		X	X	2	30.0	TYPE IV (L) ARROW
		R16.73L			X	1	27.0	TYPE VII (R) ARROW
		R16.73L			X	1	27.0	TYPE VII (L) ARROW
		R16.73L			X	1	24.0	TRANSVERSE RR LINE
		R16.73L			X	1	59.0	TYPE II (B) ARROW
		R16.73L	X			2	66.0	TYPE V ARROW
		R16.75L			X	2	48.0	KEEP
		R16.75L			X	2	54.0	CLEAR
		R16.75L			X	2	60.0	LIMIT LINE
		R16.77L			X	2	66.0	TYPE V ARROW
		R16.80L			X	2	66.0	TYPE V ARROW
		R16.51L-R16.80L			X	34	27.2	TYPE I PARKING STALL
		R16.51L-R16.80L			X	14	15.4	TYPE II PARKING STALL
	NB/ SB	16.83	X			1	40.0	ROAD CONNECTION LIMIT LINE
		16.83	X			1	15.0	TYPE IV (R) ARROW
		16.90			X	1	15.0	TYPE IV (L) ARROW
		16.91	X	X	X	4	510.0	CROSSWALK
		16.91		X		2	30.0	TYPE IV (R) ARROW
		16.91		X		2	54.0	TYPE VII (L) ARROW
		16.91	X			1	27.5	DELTA LIMIT LINE
		16.93	X			1	15.0	TYPE IV (L) ARROW
		16.94		X		2	30.0	TYPE IV (L) ARROW
		16.97		X		2	30.0	TYPE IV (L) ARROW
		17.00		X		2	30.0	TYPE IV (L) ARROW
		17.01			X	1	15.0	TYPE IV (L) ARROW
		17.02			X	1	15.0	TYPE IV (L) ARROW
		17.03	X	X	X	2	257.0	CROSSWALK
		17.03	X			2	68.0	ROAD CONNECTION LIMIT LINE
		17.03	X			1	27.5	DELTA LIMIT LINE
		17.03	X			1	15.0	TYPE IV (L) ARROW
		17.03	X			1	15.0	TYPE IV (R) ARROW
		17.04	X			1	15.0	TYPE IV (R) ARROW
		17.05	X			1	15.0	TYPE IV (R) ARROW
		17.05		X		1	27.5	DELINEATED ISLAND
44	EB	L0.00R	X	X	X	3	471.0	CROSSWALK
		L0.00R			X	1	15.0	TYPE IV (L) ARROW
		L0.00R			X	2	30.0	TYPE IV (R) ARROW
		L0.00R		X		3	99.0	TYPE V ARROW
		L0.08R		X		3	99.0	TYPE V ARROW
		L0.10R	X	X	X	4	385.0	CROSSWALK
		L0.10R	X		X	4	100.0	TYPE I 18'-0" ARROW
		L0.10R			X	2	30.0	TYPE IV (R) ARROW
		L0.10R	X			2	30.0	TYPE IV (L) ARROW
		L0.14R		X		2	84.0	TYPE III (L) ARROW
		L0.14R		X		1	73.0	TYPE III (B) ARROW
		L0.16R		X		2	84.0	TYPE III (L) ARROW
		L0.16R		X		1	73.0	TYPE III (B) ARROW
		L0.16R			X	2	67.0	DELINEATED ISLAND
		L0.16R			X	6	13.9	4" PARKING STALL
SUBTOTAL							4584.0	

THERMOPLASTIC PAVEMENT MARKING (CONTINUED)

Rte	Dir	POST MILE	Lt	Mid	Rt	(N) EA	SQFT	REMARKS
44	EB	L0.17R		X	X	2	222.0	CROSSWALK
		L0.20R		X		3	66.0	ONLY
		L0.20R		X		3	99.0	TYPE V ARROW
		L0.24R		X		3	66.0	ONLY
		L0.24R		X		2	62.0	TYPE I 24'-0" ARROW
		L0.24R		X		1	45.0	TYPE II (L) ARROW
		L0.31R		X		1	27.0	TYPE VII (L) ARROW
		L0.31R		X		1	27.0	TYPE VII (R) ARROW
		L0.31R		X		1	25.0	TYPE I 18'-0" ARROW
		L0.31R	X	X	X	4	445.0	CROSSWALK
		L0.31R	X			1	27.5	DELTA LIMIT LINE
		L0.00R-L0.31R	X			22	17.6	TYPE I PARKING STALL
		L0.00R-L0.31R	X			23	25.3	TYPE II PARKING STALL
		L0.00R-L0.31R			X	26	20.8	TYPE I PARKING STALL
		L0.00R-L0.31R			X	20	22.0	TYPE II PARKING STALL
	WB	L0.00L		X		1	34.0	DELINEATED ISLAND
		L0.00L		X		2	50.0	TYPE I 18'-0" ARROW
		L0.00L		X		2	30.0	TYPE IV (L) ARROW
		L0.00L		X		1	15.0	TYPE IV (R) ARROW
		L0.04L		X		2	50.0	TYPE I 18'-0" ARROW
		L0.04L		X		2	30.0	TYPE IV (R) ARROW
		L0.07L		X	X	3	364.0	CROSSWALK
		L0.07L			X	1	22.0	STOP
		L0.09L		X		3	99.0	TYPE V ARROW
		L0.10L		X		3	99.0	TYPE V ARROW
		L0.14L		X		3	99.0	TYPE V ARROW
		L0.17L	X	X	X	4	452.0	CROSSWALK
		L0.18L		X		2	62.0	TYPE I 24'-0" ARROW
		L0.18L		X		1	45.0	TYPE II (R) ARROW
		L0.18L		X		1	42.0	TYPE III (R) ARROW
		L0.20L		X		2	62.0	TYPE I 24'-0" ARROW
		L0.20L		X		1	45.0	TYPE II (R) ARROW
		L0.20L		X		1	42.0	TYPE III (R) ARROW
		L0.23L		X		2	62.0	TYPE I 24'-0" ARROW
		L0.23L		X		1	45.0	TYPE II (R) ARROW
		L0.23L		X		1	42.0	TYPE III (R) ARROW
		L0.24L	X	X	X	4	455.0	CROSSWALK
		L0.24L	X			1	27.5	DELTA LIMIT LINE
		L0.24L			X	1	42.0	TYPE VI ARROW
		L0.17L-L0.24L	X			10	8.0	TYPE I PARKING STALL
		L0.17L-L0.24L	X			4	4.4	TYPE II PARKING STALL
SUBTOTAL							3525.1	
TOTAL							23,922.2	

THERMOPLASTIC CROSSWALK MARKING (RECESSED)

Rte	Dir	POST MILE	Lt	Mid	Rt	(N) EA	TOTAL SQFT
44	EB	L0.17R		X	X	2	1231.0

PAVEMENT MARKER (RETROREFLECTIVE)

Rte	POSTMILE LIMITS	TYPE D EA	TYPE G EA	TYPE H EA
44	L0.0/L0.4	15	256	
273	14.5/17.4	464	1016	202
SUBTOTAL		479	1272	202
TOTAL		1953		

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

Rte	POSTMILE LIMITS	DETAIL 9 LF	DETAIL 12 LF	DETAIL 22 LF	DETAIL 25 LF	DETAIL 27 LF	DETAIL 27B LF	DETAIL 27C LF	DETAIL 29 LF	DETAIL 32 LF	DETAIL 37B LF	DETAIL 38 LF	DETAIL 38A LF	DETAIL 38B LF	DETAIL 40 LF
44	L0.0/L0.4	4633		92				53			212	423		1637	
273	14.5/17.4	27,728	5228	2498	8976	487	15,443	2839	370	1045	159	6295	432	740	2645
SUBTOTAL		32,361	5228	2590	8976	487	15,443	2892	370	1045	371	6718	432	2377	2645
TOTAL		81,935													

PAVEMENT DELINEATION QUANTITIES

PDQ-2

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MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LANCE BROWN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	24	60

12-17-13
REGISTERED CIVIL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 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.

NOTE:

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

ABBREVIATIONS:

Dir DIRECTION

ADJUST UTILITY COVER TO GRADE

Rte	Dir	POST MILE	UTILITY LOCATION	SHEET No.	WATER VALVE BOX	SANITARY SEWER MANHOLE	STORM DRAIN MANHOLE	TELEPHONE MANHOLE	(N) MONITORING WELL COVER
					EA	EA	EA	EA	EA
273	NB/SB	14.96	1	L-2	1				
		14.96	2	L-2	1				
		14.99	3	L-2	1				
		15.01	4	L-2	1				
		15.01	5	L-2	1				
		15.01	6	L-2		1			
		15.01	7	L-2		1			
		15.04	8	L-2					1
		15.06	9	L-2					1
		15.10	10	L-2					1
		15.10	11	L-2	1				
		15.10	12	L-2	1				
		15.10	13	L-2	1				
		15.10	14	L-2		1			
		15.10	15	L-2	1				
		15.15	16	L-3			1		
		15.17	17	L-3	1				
		15.17	18	L-3		1			
		15.19	19	L-3	1				
		15.19	20	L-3	1				
		15.22	21	L-3	1				
		15.23	22	L-3	1				
		15.25	23	L-3		1			
		15.26	24	L-3	1				
		15.32	25	L-4	1				
		15.32	26	L-4		1			
		15.34	27	L-4	1				
		15.34	28	L-4	1				
		15.34	29	L-4	1				
		15.34	30	L-4	1				
		15.38	31	L-4	1				
		15.38	32	L-4		1			
		15.39	33	L-4	1				
		15.39	34	L-4	1				
		15.39	35	L-4	1				
		15.39	36	L-4	1				
		15.39	37	L-4	1				
		15.39	38	L-4	1				
		15.39	39	L-4	1				
		15.43	40	L-4	1				
		15.43	41	L-4	1				
		15.43	42	L-4		1			
		15.43	43	L-4	1				
SUBTOTAL 1					31	8	1	0	

ADJUST UTILITY COVER TO GRADE (CONTINUED)

Rte	Dir	POST MILE	UTILITY LOCATION	SHEET No.	WATER VALVE BOX	SANITARY SEWER MANHOLE	STORM DRAIN MANHOLE	TELEPHONE MANHOLE
					EA	EA	EA	EA
273	NB/SB	15.43	44	L-4	1			
		15.43	45	L-4	1			
		15.51	46	L-4	1			
		15.51	47	L-4	1			
		15.51	48	L-4	1			
		15.51	49	L-4		1		
		15.54	50	L-5		1		
		15.54	51	L-5	1			
		15.54	52	L-5	1			
		15.54	53	L-5		1		
		15.54	54	L-5	1			
		15.54	55	L-5	1			
		15.54	56	L-5	1			
		15.54	57	L-5	1			
		15.54	58	L-5	1			
		15.54	59	L-5	1			
		15.54	60	L-5		1		
		15.63	61	L-5		1		
		15.63	62	L-5	1			
		15.63	63	L-5	1			
		15.63	64	L-5		1		
		15.66	65	L-5	1			
		15.66	66	L-5	1			
		15.66	67	L-5	1			
		15.66	68	L-5	1			
		15.66	69	L-5	1			
		15.66	70	L-5	1			
		15.66	71	L-5	1			
		15.66	72	L-5		1		
		15.66	73	L-5		1		
		15.66	74	L-5	1			
	NB	15.97R	75	L-7	1			
		15.97R	76	L-7		1		
		15.97R	77	L-7				1
		15.97R	78	L-7		1		
		15.97R	79	L-7	1			
		15.97R	80	L-7		1		
SUBTOTAL 2					25	11	0	1

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	25	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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ADJUST UTILITY COVER TO GRADE (CONTINUED)

Rte	Dir	POST MILE	UTILITY LOCATION	SHEET No.	WATER VALVE BOX	SANITARY SEWER MANHOLE	STORM DRAIN MANHOLE	TELEPHONE MANHOLE
					EA	EA	EA	EA
273	NB	15.97R	81	L-7	1			
		15.97R	82	L-7	1			
		15.97R	83	L-7	1			
		16.02R	84	L-7	1			
		16.02R	85	L-7	1			
		16.04R	86	L-7	1			
		16.05R	87	L-7	1			
		16.05R	88	L-7		1		
		16.05R	89	L-7	1			
		16.05R	90	L-7	1			
		16.08R	91	L-7	1			
		16.16R	92	L-7		1		
		16.16R	93	L-7	1			
	SB	16.08L	94	L-7	1			
		16.08L	95	L-7	1			
		16.08L	96	L-7	1			
	NB	16.18R	97	L-8	1			
		16.18R	98	L-8		1		
		16.18R	99	L-8	1			
		16.18R	100	L-8		1		
		16.18R	101	L-8	1			
		16.18R	102	L-8	1			
		16.25R	103	L-8		1		
		16.25R	104	L-8	1			
		16.25R	105	L-8	1			
		16.25R	106	L-8	1			
		16.25R	107	L-8			1	
		R16.28R	108	L-8			1	
		R16.32R	109	L-8	1			
		R16.32R	110	L-8	1			
		R16.32R	111	L-8			1	
		R16.32R	112	L-8	1			
		R16.32R	113	L-8				1
		R16.32R	114	L-8				1
		R16.32R	115	L-8	1			
		R16.36R	116	L-9	1			
		R16.36R	117	L-9	1			
		R16.36R	118	L-9			1	
		R16.36R	119	L-9	1			
		R16.36R	120	L-9	1			
		R16.45R	121	L-9	1			
		R16.45R	122	L-9	1			
		R16.45R	123	L-9	1			
SUBTOTAL 3					32	5	4	2

ADJUST UTILITY COVER TO GRADE (CONTINUED)

Rte	Dir	POST MILE	UTILITY LOCATION	SHEET No.	WATER VALVE BOX	SANITARY SEWER MANHOLE	STORM DRAIN MANHOLE	TELEPHONE MANHOLE
					EA	EA	EA	EA
273	NB	R16.45R	124	L-9	1			
		R16.45R	125	L-9	1			
		R16.47R	126	L-9	1			
		R16.49R	127	L-9				1
		R16.49R	128	L-9				1
		R16.51R	129	L-9	1			
		R16.51R	130	L-9	1			
		R16.51R	131	L-9	1			
		R16.51R	132	L-9		1		
		R16.51R	133	L-9	1			
		R16.51R	134	L-9	1			
		R16.58R	135	L-9	1			
		R16.58R	136	L-10	1			
		R16.58R	137	L-10				1
		R16.66R	138	L-10	1			
		R16.66R	139	L-10	1			
		R16.66R	140	L-10	1			
		R16.66R	141	L-10	1			
		R16.66R	142	L-10	1			
		R16.66R	143	L-10	1			
		R16.66R	144	L-10	1			
44	EB	L0.27R	145	L-10		1		
		L0.31R	146	L-10	1			
		L0.31R	147	L-10			1	
		L0.31R	148	L-10	1			
		L0.31R	149	L-10	1			
		L0.31R	150	L-10	1			
		L0.22R	151	L-10	1			
		L0.20R	152	L-10		1		
		L0.17R	153	L-10	1			
		L0.17R	154	L-10	1			
		L0.17R	155	L-10	1			
		L0.17R	156	L-10	1			
273	SB	R16.76L	157	L-10		1		
		R16.73L	158	L-10	1			
		R16.73L	159	L-10	1			
		R16.73L	160	L-10	1			
SUBTOTAL 4					29	4	1	3

SUMMARY OF QUANTITIES

Q-2

REVISED BY | DATE REVISED
MICHAEL CONNER | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	26	60

REGISTERED CIVIL ENGINEER 12-17-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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ADJUST UTILITY COVER TO GRADE (CONTINUED)

Rte	Dir	POST MILE	UTILITY LOCATION	SHEET No.	WATER VALVE BOX	SANITARY SEWER MANHOLE	STORM DRAIN MANHOLE	TELEPHONE MANHOLE	GAS COVER
					EA	EA	EA	EA	EA
273	SB	R16.73L	161	L-10		1			
		R16.66L	162	L-10	1				
		R16.66L	163	L-10	1				
		R16.66L	164	L-10	1				
		R16.66L	165	L-10	1				
44	WB	L0.17L	166	L-11	1				
		L0.17L	167	L-11	1				
		L0.17L	168	L-11				1	
		L0.17L	169	L-11	1				
		L0.17L	170	L-11	1				
		L0.17L	171	L-11	1				
		L0.21L	172	L-11		1			
		L0.24L	173	L-11	1				
		L0.24L	174	L-11	1				
		L0.24L	175	L-11	1				
		L0.07L	176	L-11	1				
		L0.07L	177	L-11	1				
		L0.05L	178	L-11		1			
	EB	L0.10R	179	L-11	1				
		L0.10R	180	L-11	1				
		L0.10R	181	L-11	1				
		L0.10R	182	L-11	1				
		L0.10R	183	L-11	1				
		L0.10R	184	L-11		1			
		L0.10R	185	L-11				1	
		L0.00R	186	L-11	1				
		L0.00R	187	L-11	1				
273	SB	16.18L	188	L-12	1				
		16.18L	189	L-12	1				
		16.18L	190	L-12	1				
		16.18L	191	L-12	1				
		R16.26L	192	L-12	1				
		R16.26L	193	L-12			1		
		R16.26L	194	L-12	1				
		R16.27L	195	L-12		1			
		R16.33L	196	L-12		1			
		R16.33L	197	L-12					1
		R16.33L	198	L-12	1				
		R16.35L	199	L-12	1				
		R16.39L	200	L-12	1				
		R16.40L	201	L-12	1				
		R16.40L	202	L-12		1			
		R16.40L	203	L-12	1				
SUBTOTAL 5					32	7	1	2	1

ADJUST UTILITY COVER TO GRADE (CONTINUED)

Rte	Dir	POST MILE	UTILITY LOCATION	SHEET No.	WATER VALVE BOX	SANITARY SEWER MANHOLE	STORM DRAIN MANHOLE	TELEPHONE MANHOLE	GAS COVER
					EA	EA	EA	EA	EA
273	SB	R16.40L	204	L-12	1				
		R16.40L	205	L-12				1	
		R16.44L	206	L-13					1
		R16.44L	207	L-13			1		
		R16.44L	208	L-13	1				
		R16.51L	209	L-13	1				
		R16.51L	210	L-13				1	
		R16.51L	211	L-13	1				
		R16.51L	212	L-13		1			
		R16.51L	213	L-13	1				
		R16.51L	214	L-13		1			
		R16.51L	215	L-13	1				
		R16.55L	216	L-13	1				
		R16.56L	217	L-13	1				
		R16.56L	218	L-13	1				
		R16.59L	219	L-13	1				
		R16.59L	220	L-13	1				
		R16.61L	221	L-13	1				
		R16.65L	222	L-13	1				
	NB/SB	16.90	223	L-14	1				
		16.91	224	L-14	1				
		16.91	225	L-14	1				
		16.91	226	L-14				1	
		16.91	227	L-14				1	
		16.99	228	L-14	1				
		16.99	229	L-14		1			
		17.07	230	L-14				1	
SUBTOTAL 6					17	3	1	5	1
COMBINED SUBTOTALS					166	38	8	13	2
TOTAL					227				

SUMMARY OF QUANTITIES

Q-3

REVISED BY	DATE REVISED
MICHAEL CONNER	KARLIE SMITH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

Caltrans® MAINTENANCE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	27	60

12-17-13
REGISTERED CIVIL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
2. Exist UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. EXACT LOCATIONS OF REPLACE AC SURFACING TO BE DETERMINED BY THE ENGINEER.

ROADWAY QUANTITIES SUMMARY

Rte	Dir	POST MILE LIMITS	(N) LENGTH	(N) WIDTH	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT	TACK COAT
		PM - PM	LF	LF	SQYD	TON	TON
273	NB/ SB	14.50-14.66	845	92.0-71.0	68,310	4611	29
		14.66-14.77	581	71.0-62.0			
		14.77-14.95	950	62.0-64.0			
		14.95-14.97	106	68.0-81.0			
		14.97-15.00	158	81.0-103.5			
		15.00-15.03	158	103.5-104.5			
		15.03-15.10	370	104.5-104.0			
		15.10-15.13	158	104.0-103.0			
		15.13-15.16	158	103.0-90.0			
		15.16-15.18	106	105.5			
		15.18-15.19	53	105.5-90.0			
		15.19-15.22	158	90.0-94.5			
		15.22-15.28	317	94.5			
		15.28-15.29	53	94.5-87.0			
		15.29-15.34	264	87.0-82.0			
		15.34-15.41	370	82.0			
		15.41-15.52	581	82.0			
		15.52-15.55	158	82.0-92.5			
		15.55-15.59	211	92.5-106.5			
		15.59-15.64	264	106.5-113.5			
		15.64-15.65	53	113.5-116.0			
		15.65-15.66	53	116.0-97.5			
		15.66-15.80	739	97.5-77.0			
		15.80-15.82	106	72.0			
		15.82-15.84	106	87.0-84.0			
		15.84-15.89	264	84.0-94.0			
		15.89-15.92	158	94.0-108.0			
	NB	15.92R-15.95R	158	51.0-71.0	24,457	1651	10
		15.95R-15.97R	106	41.0-46.0			
		15.97R-16.00R	158	46.0-49.0			
		16.00R-16.05R	264	49.0-52.0			
		16.05R-16.10R	264	52.0-53.0			
		16.10R-16.18R	422	53.0-52.5			
		16.18R-16.25R	370	52.5-51.0			
		16.25R-R16.32R	370	51.0-54.5			
		R16.32R-R16.36R	211	54.5-52.5			
		R16.36R-R16.45R	475	52.5-52.0			
		R16.45R-R16.51R	317	52.0-52.5			
		R16.52R-R16.58R	317	52.5-51.5			
		R16.58R-R16.66R	422	51.5-52.0			
		R16.66R-R16.73R	370	52.0			
	SB	15.92L-15.94L	106	57.0-73.5	26,373	1780	11
		15.94L-16.03L	475	43.5-34.5			
		16.03L-16.05L	106	80.0-67.5			
		16.05L-16.16L	576	67.5-50.0			
		16.18L-R16.25L	348	50.0			
		R16.25L-R16.26L	53	50.0-53.5			
		R16.26L-R16.31L	264	53.5-53.0			
		R16.31L-R16.35L	211	53.0-55.0			
		R16.35L-R16.40L	264	55.0-52.0			
		R16.40L-R16.44L	211	52.0-52.5			
		R16.44L-R16.51L	370	52.5			
		R16.51L-R16.59L	422	52.5			
		R16.59L-R16.66L	370	52.5-52.0			
		R16.66L-R16.73L	370	52.0-54.5			
		R16.73L-R16.74L	53	54.5-52.0			
		R16.74L-R16.80L	317	52.0-52.5			
SUBTOTAL					119,140	8042	50

ROADWAY QUANTITIES SUMMARY (CONTINUED)

Rte	Dir	POST MILE LIMITS	(N) LENGTH	(N) WIDTH	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT	TACK COAT
		PM - PM	LF	LF	SQYD	TON	TON
273	NB/ SB	16.83-16.91	422	68.0-67.0	8775	593	4
		16.91-16.92	53	67.0-52.5			
		16.92-17.00	422	52.5-54.0			
		17.00-17.03	158	54.0-74.0			
		17.04-17.08	211	74.0-65.0			
44	EB	L0.00R-L0.02R	106	68.0-52.0	9592	648	4
		L0.02R-L0.10R	422	52.0			
		L0.10R-L0.17R	370	52.0-53.0			
		L0.17R-L0.24R	370	53.0-52.0			
		L0.24R-L0.31R	370	52.0			
	WB	L0.00L-L0.02L	106	120.0-62.5	8014	541	3
		L0.02L-L0.04L	106	62.5-			
		L0.04L-L0.07L	158	62.5-53.0			
		L0.07L-L0.15L	422	53.0-52.0			
		L0.15L-L0.17L	106	52.0			
		L0.17L-L0.24L	370	52.0			
55 ROAD CONNECTIONS					25,563	1728	24
TOTAL					171,084	11,552	85

REPLACE ASPHALT CONCRETE SURFACING

Rte	Dir	POST MILE LIMITS	(N) No. OF DIGOUTS	(N) Avg LENGTH	(N) WIDTH	(N) DEPTH	REPLACE AC SURFACING
				LF	LF	LF	CY
273	SB	14.96	3	100	12	0.33	44
	NB/SB	14.50-15.92	15	100	4	0.33	73
	NB	15.92R-R16.73R	7	100	4	0.33	34
	SB	15.92L-R16.80L	7	100	4	0.33	34
	NB	16.91	1	100	12	0.33	15
	NB/SB	16.83-17.08	7	100	4	0.33	34
44	EB	L0.00R-L0.31R	2	100	4	0.33	10
	WB	L0.00L-L0.24L	2	100	4	0.33	10
TOTAL							254

SUMMARY OF QUANTITIES

Q-4

REVISED BY	DATE REVISED
MICHAEL CONNER	KARLIE SMITH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	28	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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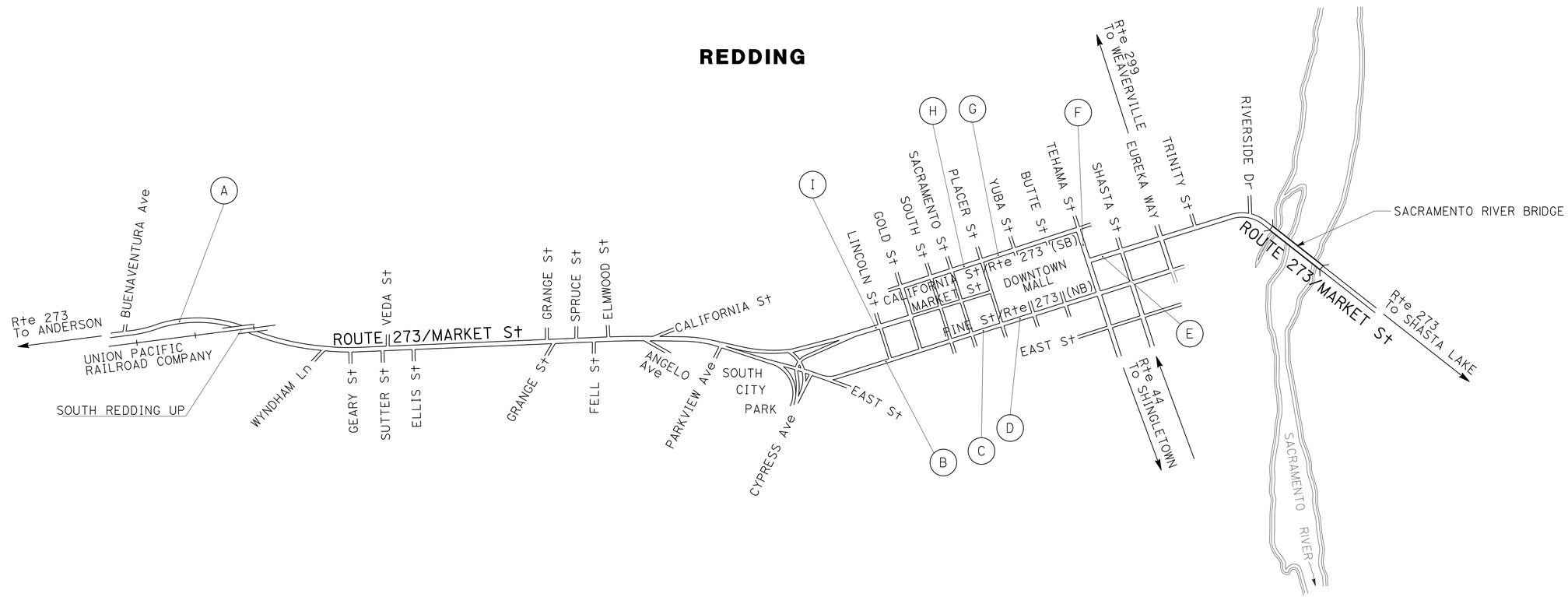

MODIFY TRAFFIC MONITORING STATION KEY MAP

NO SCALE

E-1

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY	J. M. HANNIGAN
DATE REVISED	
CALCULATED-DESIGNED BY	J. M. HANNIGAN
CHECKED BY	JIM ELGIN
FUNCTIONAL SUPERVISOR	ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

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LAST REVISION 12-18-13
DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	29	60

12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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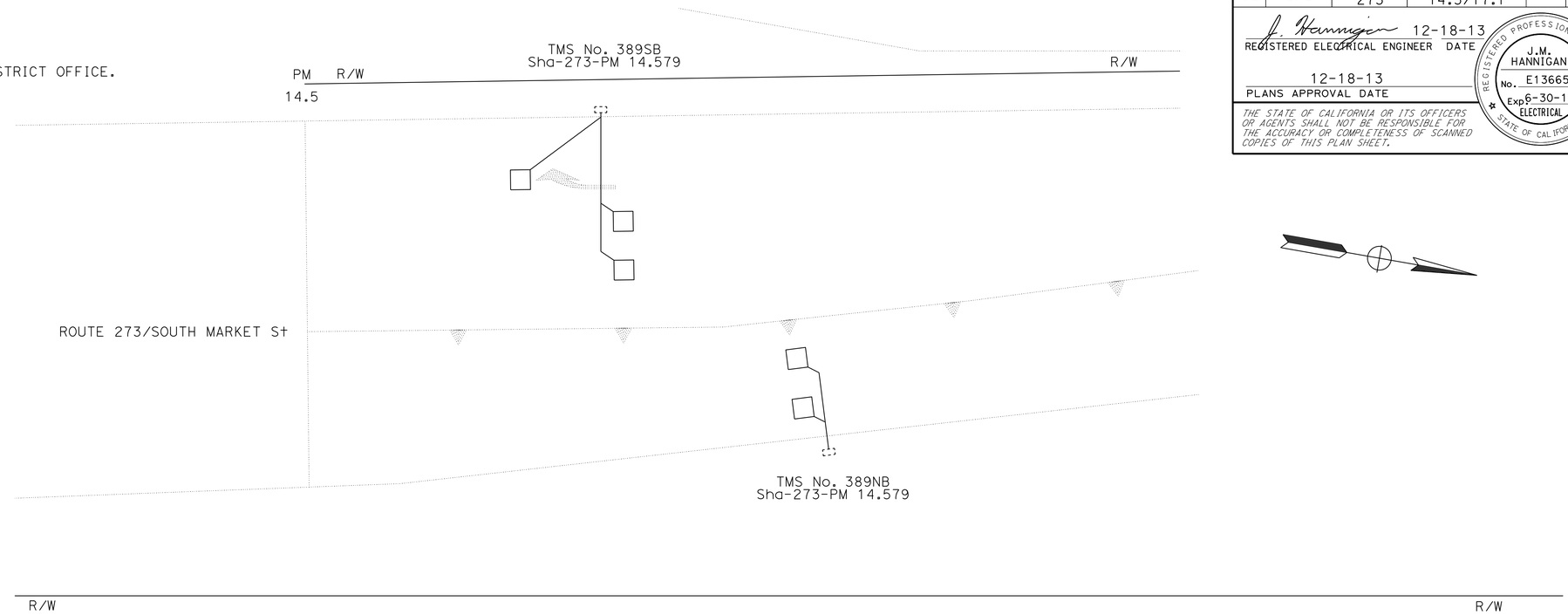
NOTE:

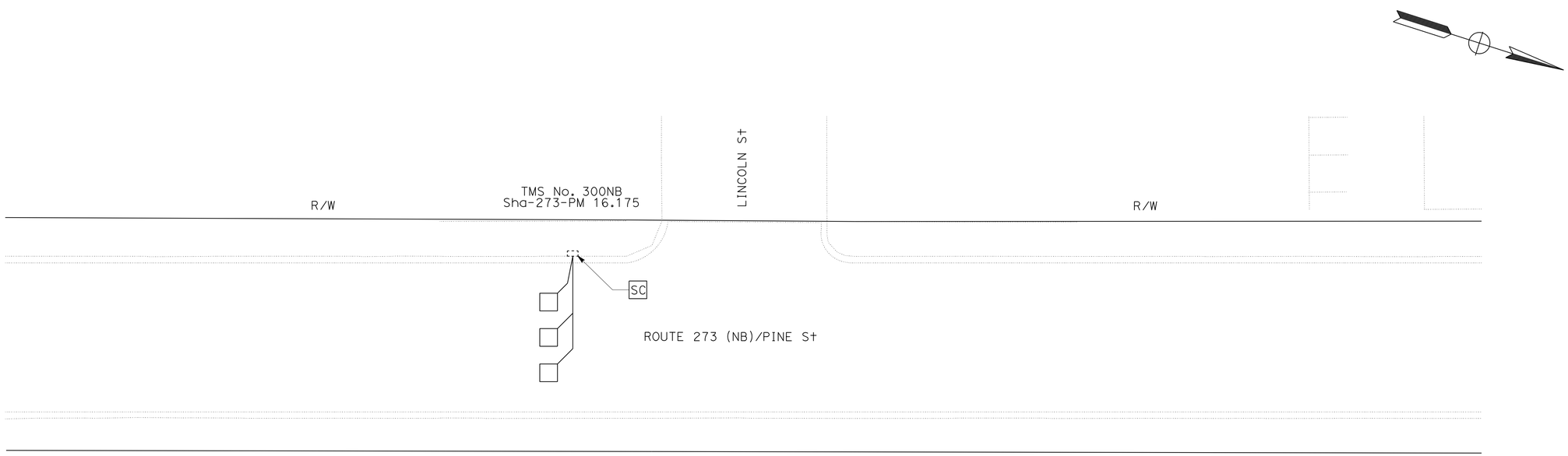
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES (THIS SHEET):

1. EXISTING LOOPS ARE NOT SHOWN. ABANDON EXISTING LOOPS.
2. CENTER LOOPS IN LANES. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
3. FOR KEY MAP SEE SHEET E-1.
4. COIL 10' OF LOOP CONDUCTORS IN PULL BOX, UNLESS SHOWN OTHERWISE.



LOCATION A



LOCATION B

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MODIFY TRAFFIC MONITORING STATION LOCATIONS A AND B

NO SCALE

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ROB STINGER
CALCULATED-DESIGNED BY: J. M. HANNIGAN
CHECKED BY: JIM ELGIN
REVISED BY
DATE REVISED

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LAST REVISION 12-18-13
DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	30	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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NOTE:

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

NOTES (THIS SHEET):

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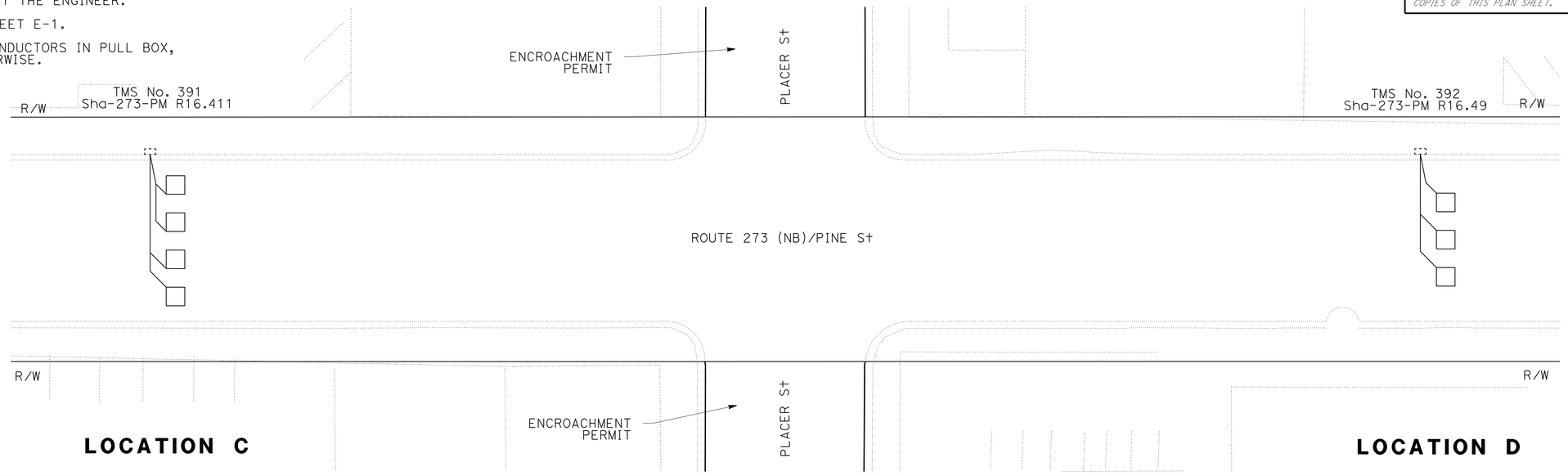
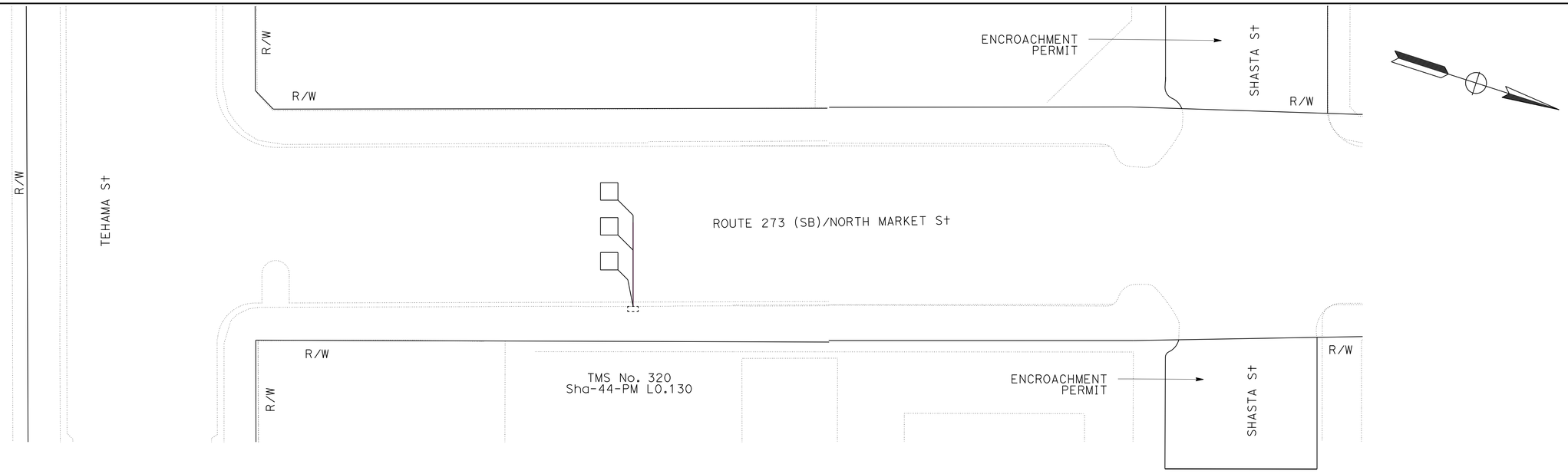
2. CENTER LOOPS IN LANES. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
3. FOR KEY MAP SEE SHEET E-1.
4. COIL 10' OF LOOP CONDUCTORS IN PULL BOX, UNLESS SHOWN OTHERWISE.



LOCATION C

LOCATION D



LOCATION E

MODIFY TRAFFIC MONITORING STATION LOCATIONS C, D, AND E

NO SCALE

E-3

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY | DATE REVISED
J. M. HANNIGAN | JIM ELGIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	31	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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NOTE:

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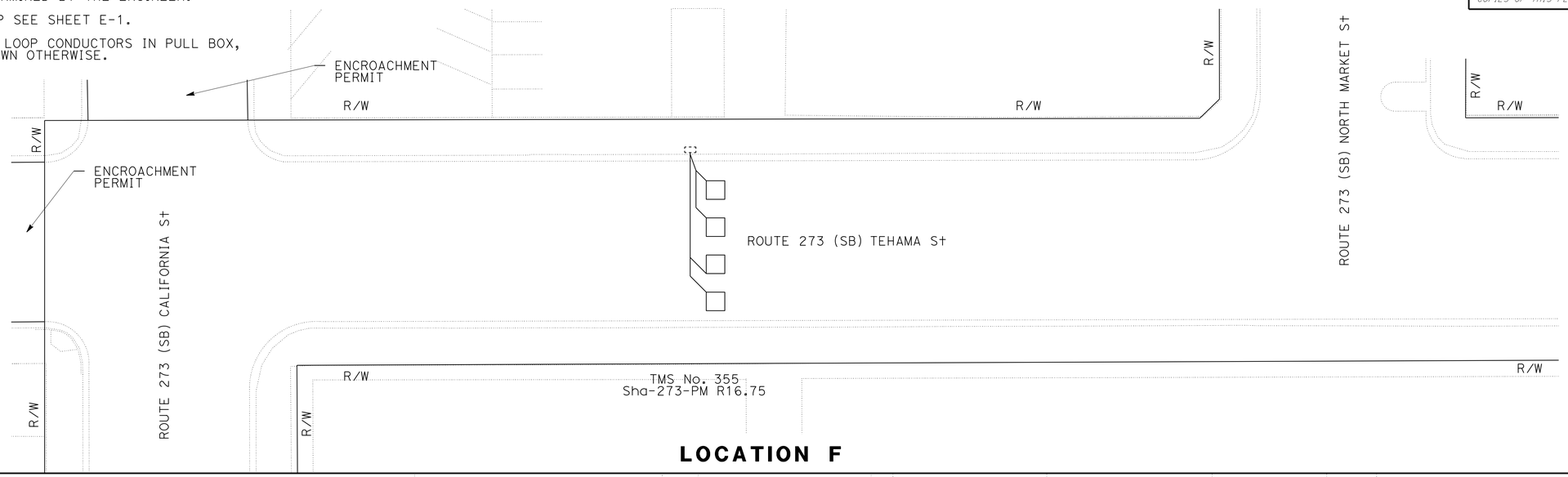
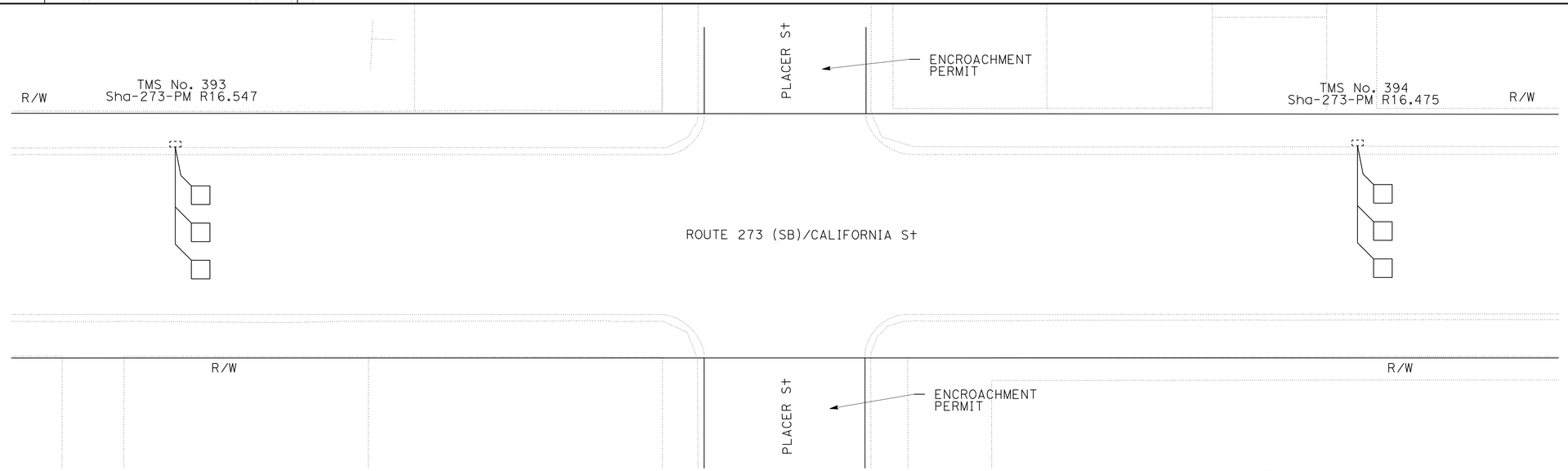
3. FOR KEY MAP SEE SHEET E-1.
4. COIL 10' OF LOOP CONDUCTORS IN PULL BOX, UNLESS SHOWN OTHERWISE.



LOCATION F



LOCATION G

LOCATION H

MODIFY TRAFFIC MONITORING STATION LOCATIONS F, G AND H

NO SCALE

E-4

APPROVED FOR ELECTRICAL WORK ONLY

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J. M. HANNIGAN | JIM ELGIN
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FUNCTIONAL SUPERVISOR | ROB STINGER

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12-18-13 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	32	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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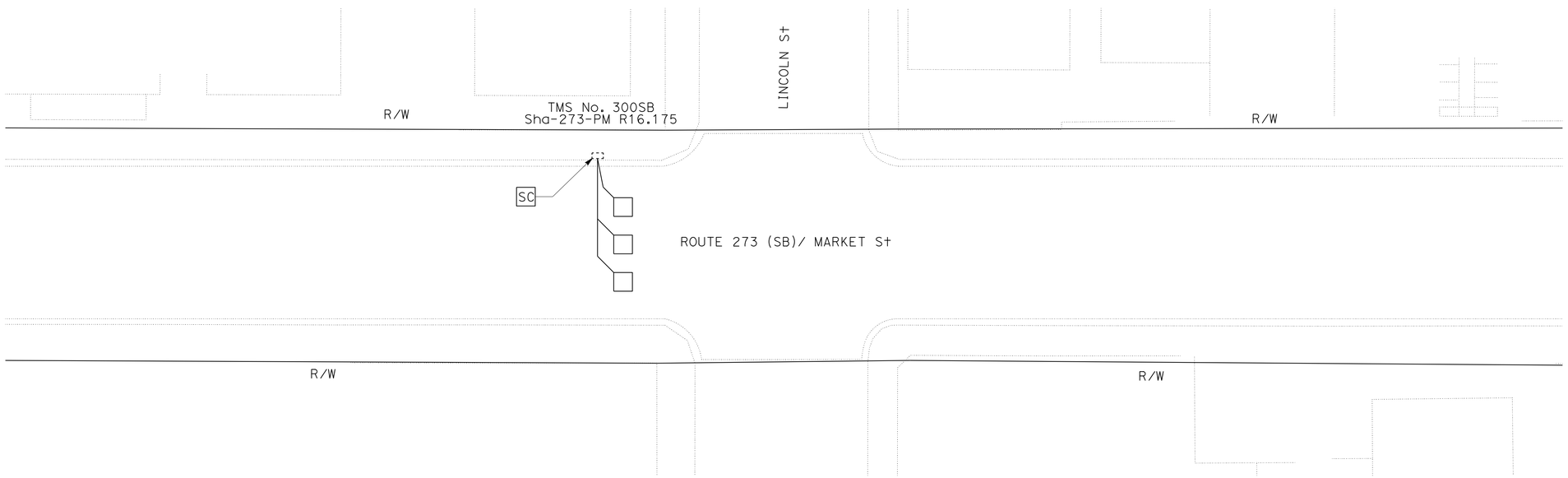
NOTE:

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

NOTES (THIS SHEET):

1. EXISTING LOOPS ARE NOT SHOWN. ABANDON EXISTING LOOPS.
2. CENTER LOOPS IN LANES. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
3. FOR KEY MAP SEE SHEET E-1.



MODIFY TRAFFIC MONITORING STATION LOCATION I

NO SCALE

E-5

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY | DATE REVISED
J. M. HANNIGAN | JIM ELGIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 24g150ua005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0147 | PROJECT NUMBER & PHASE 02-1300-0080-1 | EA 02-4G150

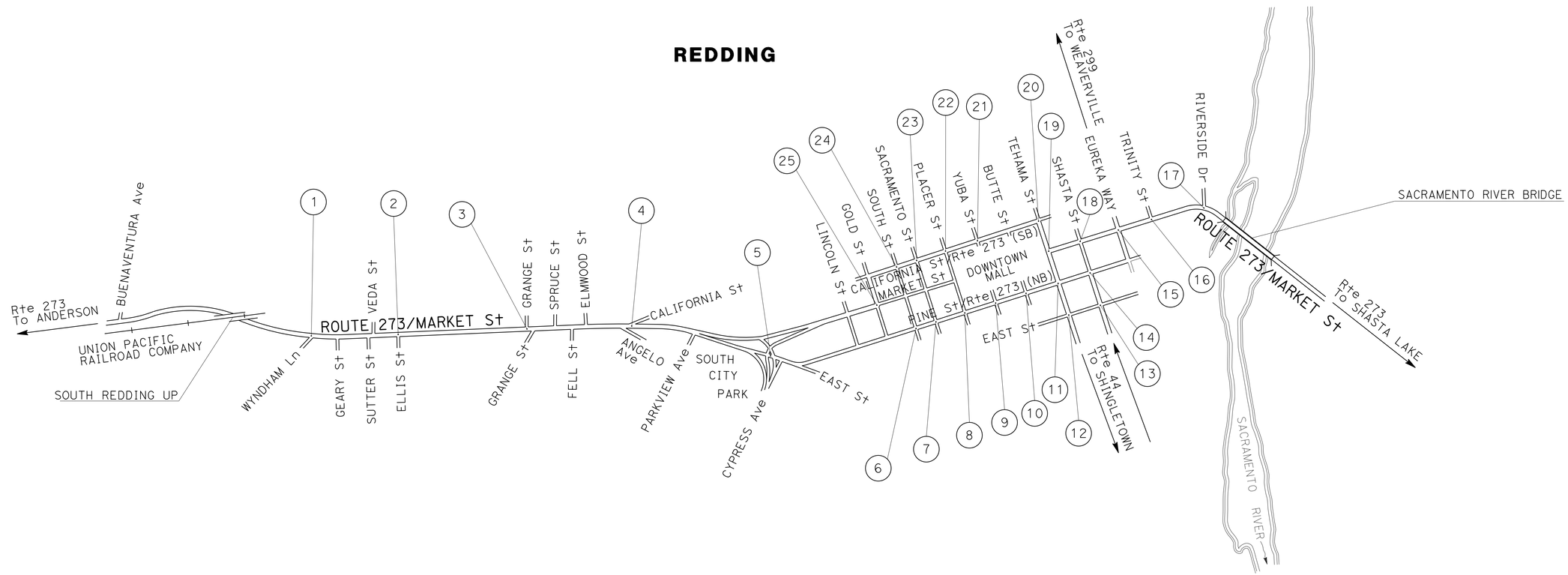
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	33	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
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.



MODIFY SIGNAL KEY MAP

NO SCALE

E-6

APPROVED FOR ELECTRICAL WORK ONLY

J. M. HANNIGAN — JIM ELGIN — REVISED BY — DATE REVISED
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 24g150ua006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0147 | PROJECT NUMBER & PHASE 02-1300-0080-1 | EA 02-4G150

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	34	60

REGISTERED ELECTRICAL ENGINEER 12-18-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER J.M. HANNIGAN No. E13665 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

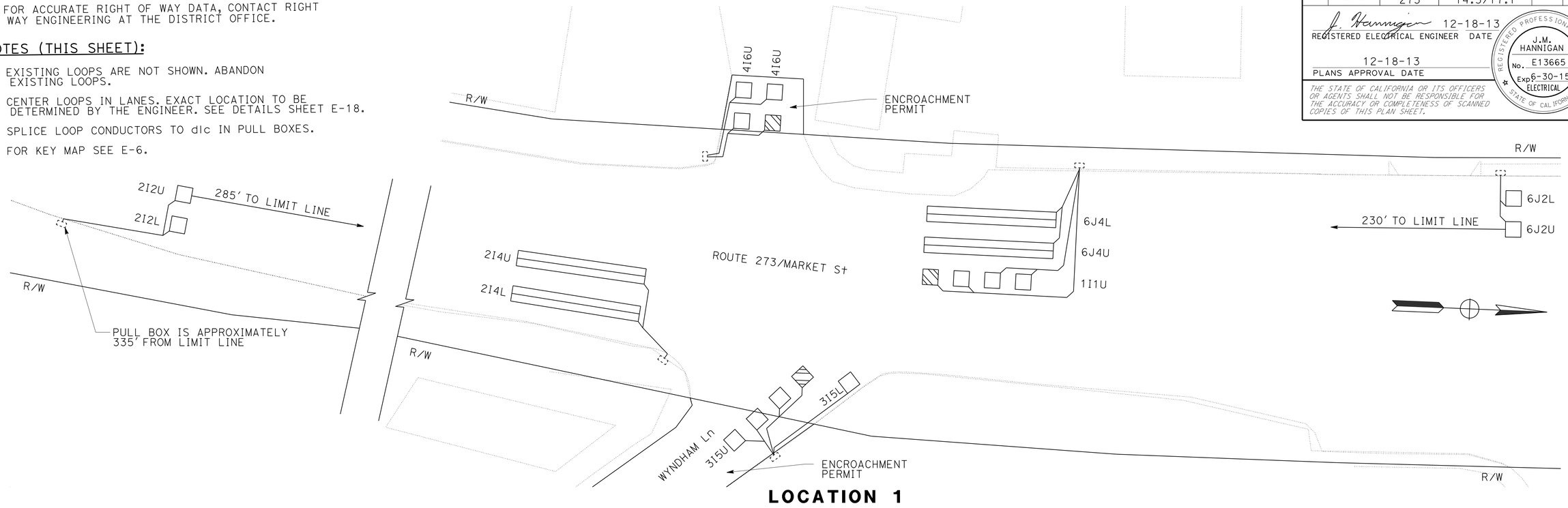
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

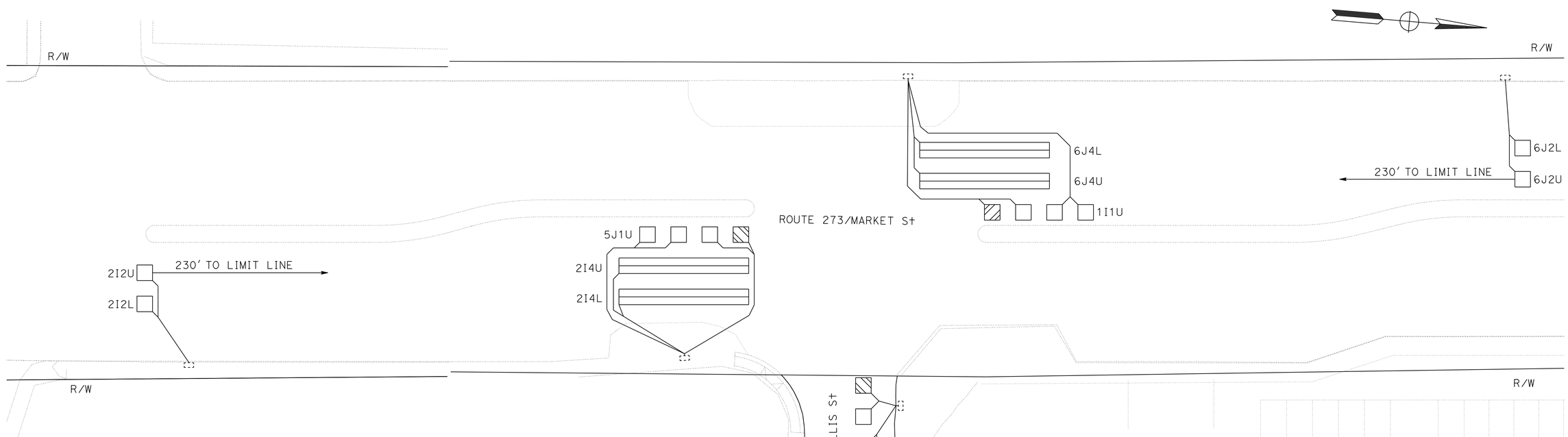
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES (THIS SHEET):

1. EXISTING LOOPS ARE NOT SHOWN. ABANDON EXISTING LOOPS.
2. CENTER LOOPS IN LANES. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER. SEE DETAILS SHEET E-18.
3. SPLICE LOOP CONDUCTORS TO dlc IN PULL BOXES.
4. FOR KEY MAP SEE E-6.



LOCATION 1



LOCATION 2

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL LOCATIONS 1 AND 2

NO SCALE

E-7

REVISED BY	DATE REVISED
J. M. HANNIGAN	JIM ELGIN
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	35	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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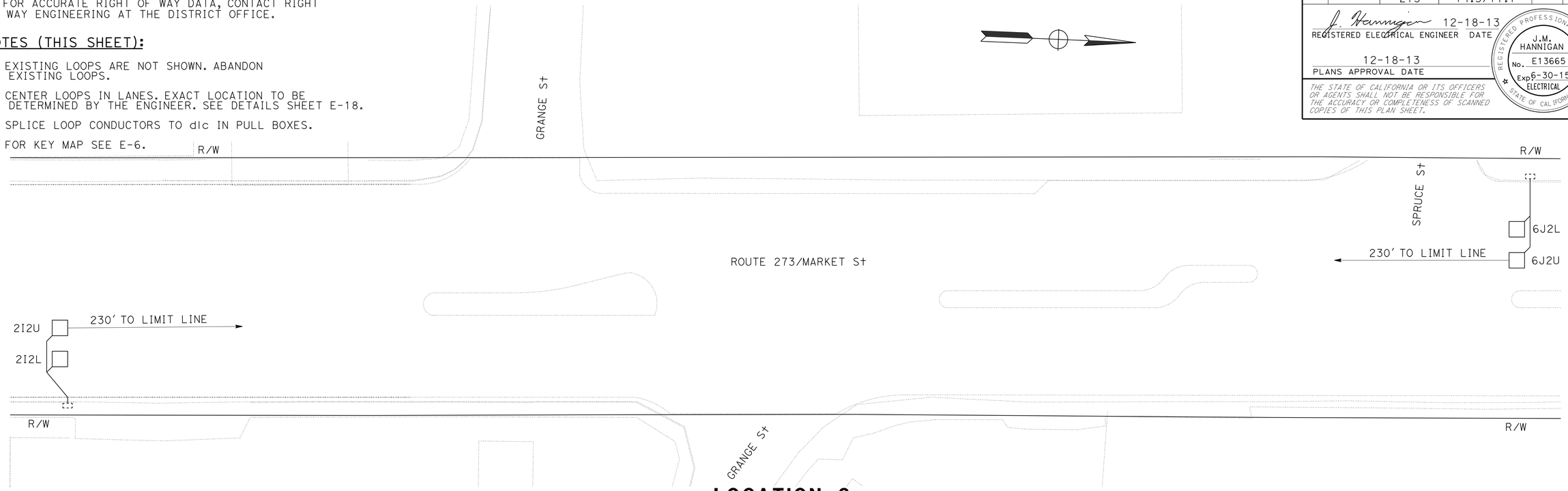
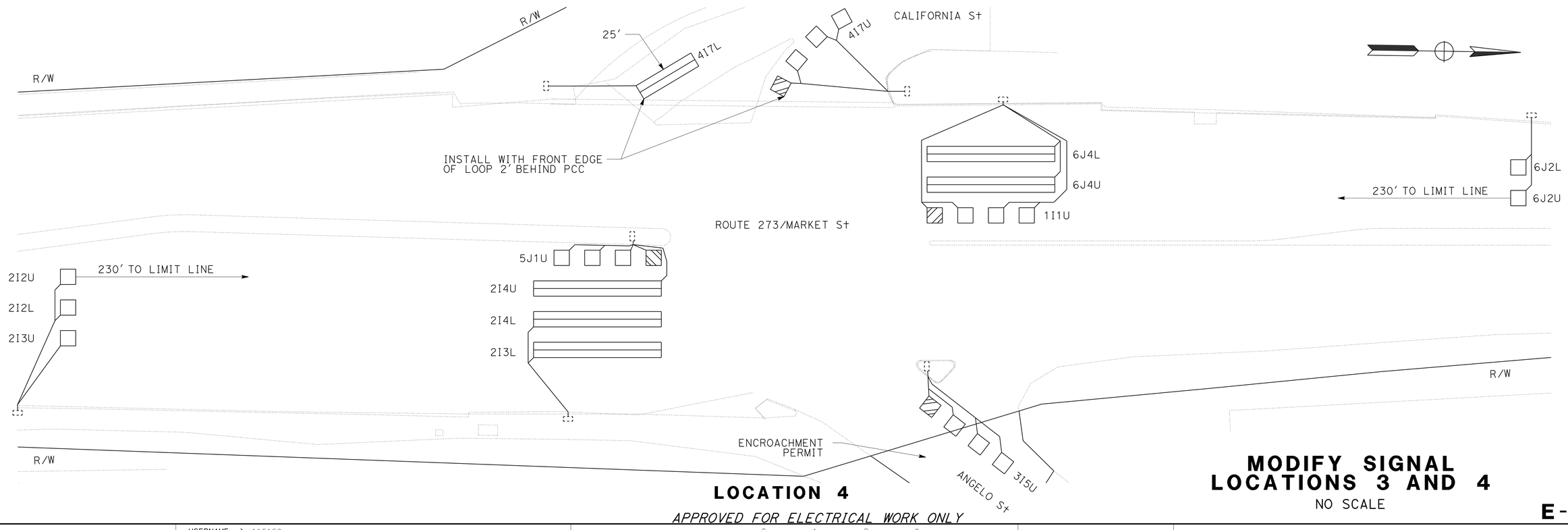
3. SPLICE LOOP CONDUCTORS TO dlc IN PULL BOXES.
4. FOR KEY MAP SEE E-6.



LOCATION 3



LOCATION 4

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL LOCATIONS 3 AND 4

NO SCALE

E-8

REVISED BY | DATE REVISED
J. M. HANNIGAN | JIM ELGIN
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12-18-13 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	36	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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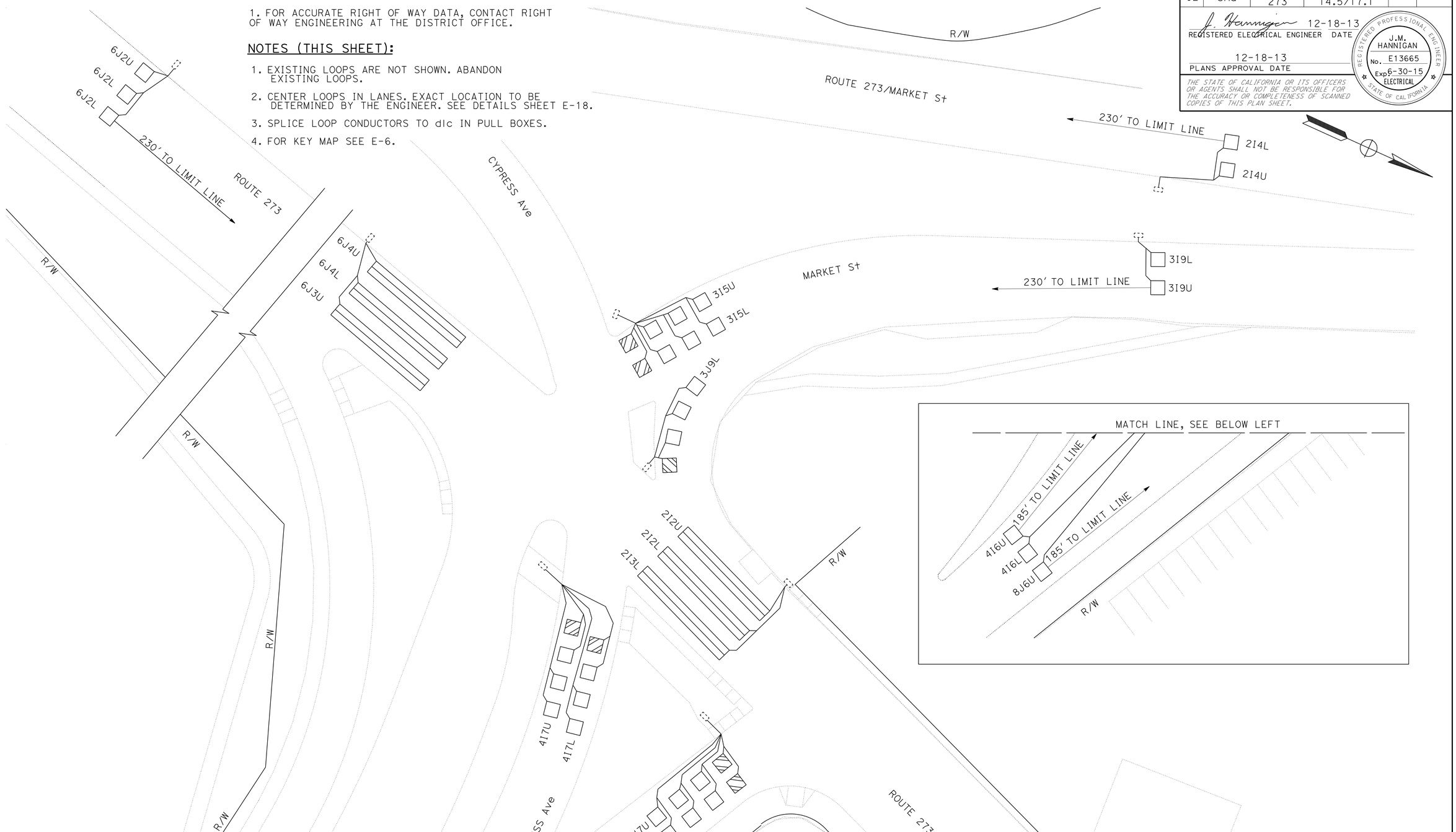

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MODIFY SIGNAL LOCATION 5

NO SCALE

E-9

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DATE REVISED	
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JIM ELGIN	
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	37	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
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REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
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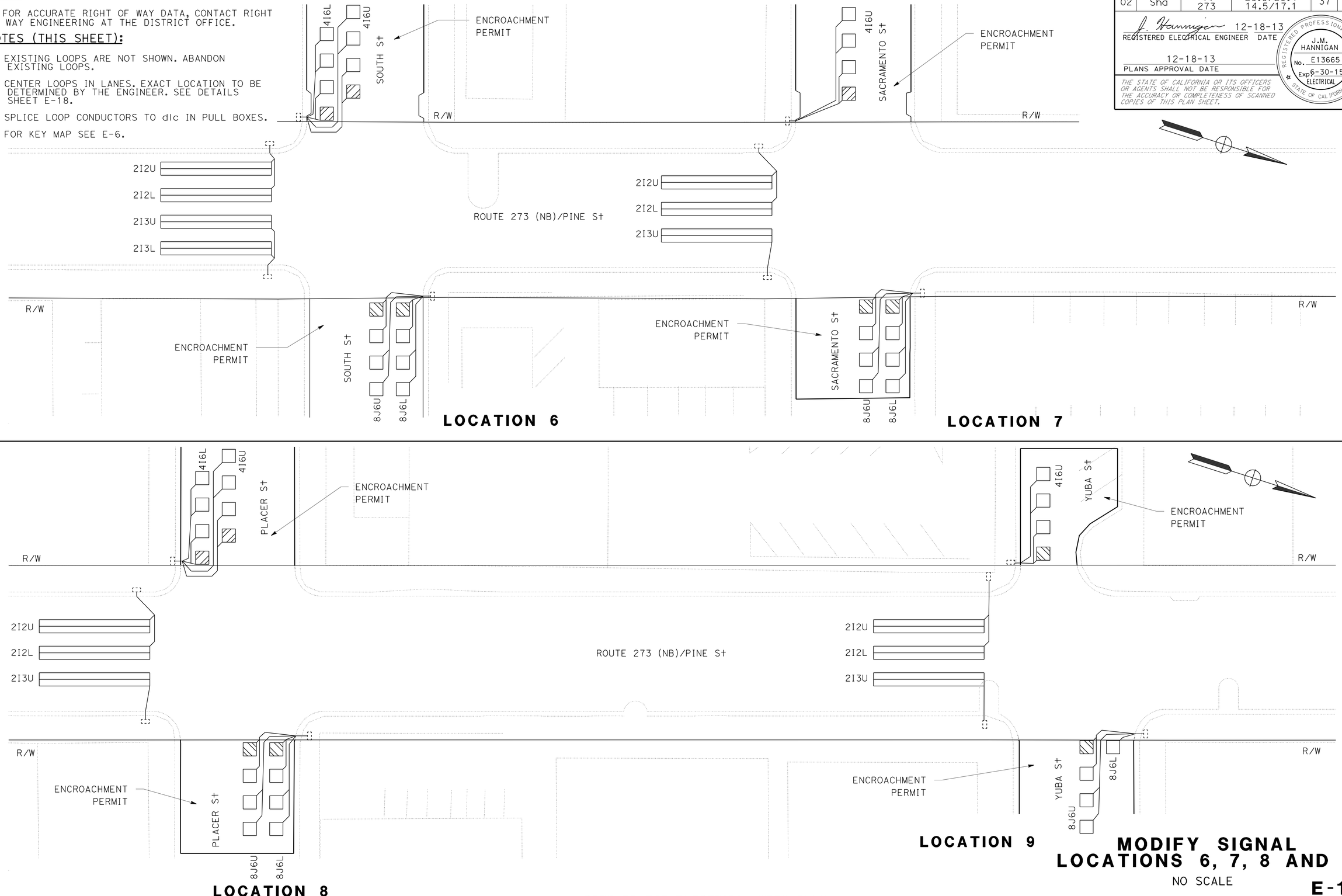

MODIFY SIGNAL LOCATIONS 6, 7, 8 AND 9

NO SCALE

E-10

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	38	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
J.M. HANNIGAN
No. E13665
Exp. 6-30-15
ELECTRICAL
STATE OF CALIFORNIA

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4. FOR KEY MAP SEE E-6.

LOCATION 10

LOCATION 11

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MODIFY SIGNAL LOCATIONS 10 AND 11

NO SCALE

E-11

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BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 24g150ua011.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0147 | PROJECT NUMBER & PHASE 02-1300-0080-1 | EA 02-4G150

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	39	60

REGISTERED ELECTRICAL ENGINEER 12-18-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER J.M. HANNIGAN No. E13665 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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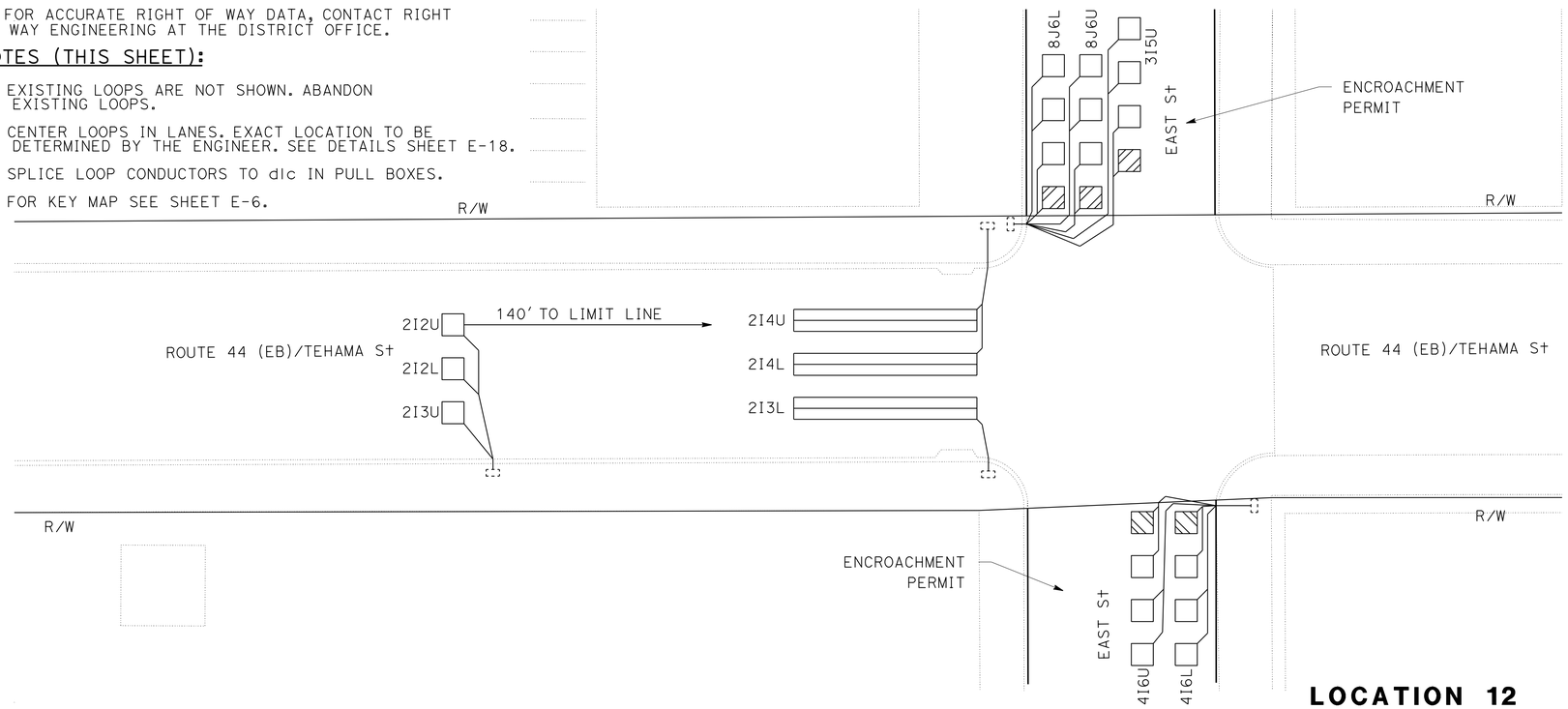
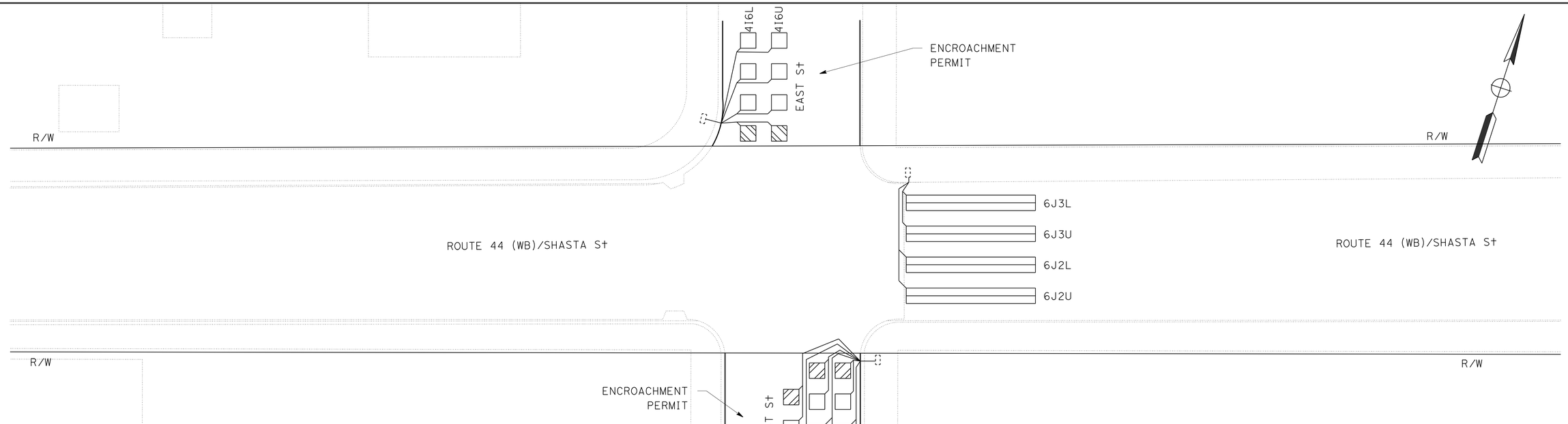


LOCATION 12



LOCATION 13

MODIFY SIGNAL LOCATIONS 12 AND 13

NO SCALE

E-12

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	40	60

REGISTERED ELECTRICAL ENGINEER 12-18-13 DATE

12-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER J.M. HANNIGAN No. E13665 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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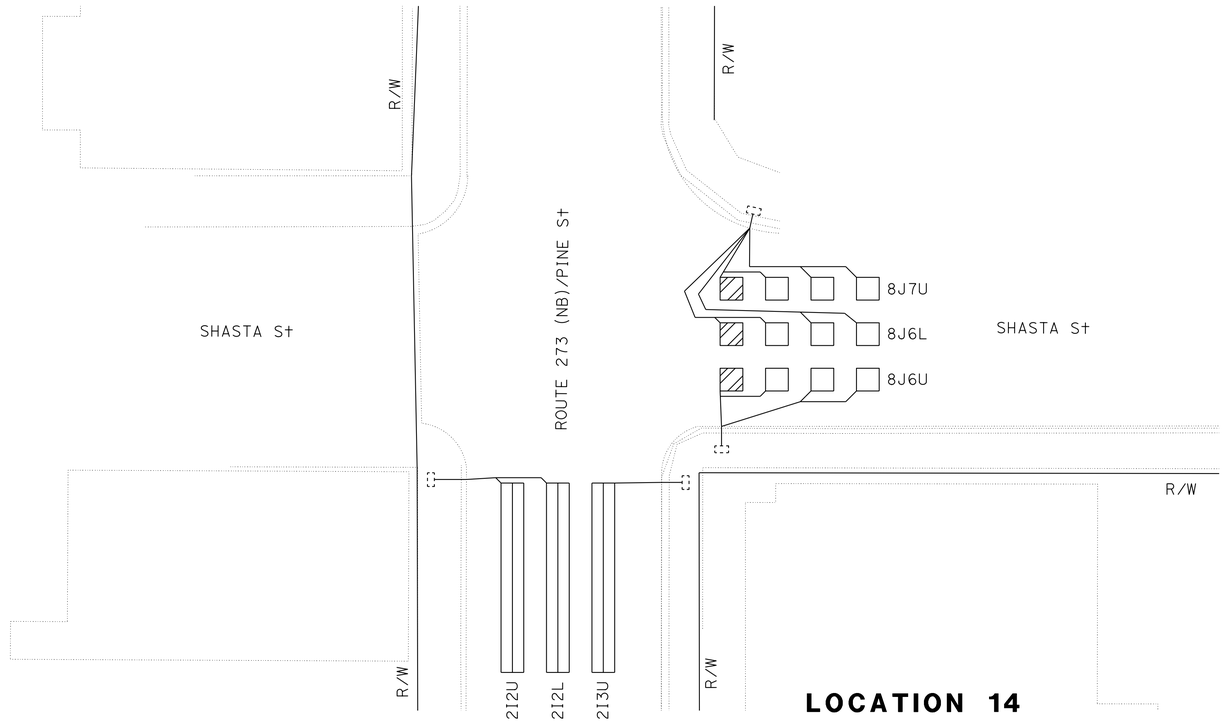
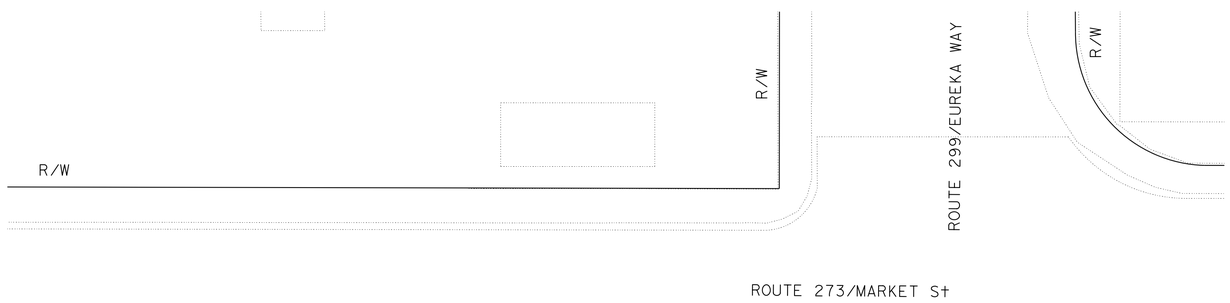


LOCATION 14



LOCATION 15

MODIFY SIGNAL LOCATIONS 14 AND 15

NO SCALE

E-13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	41	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
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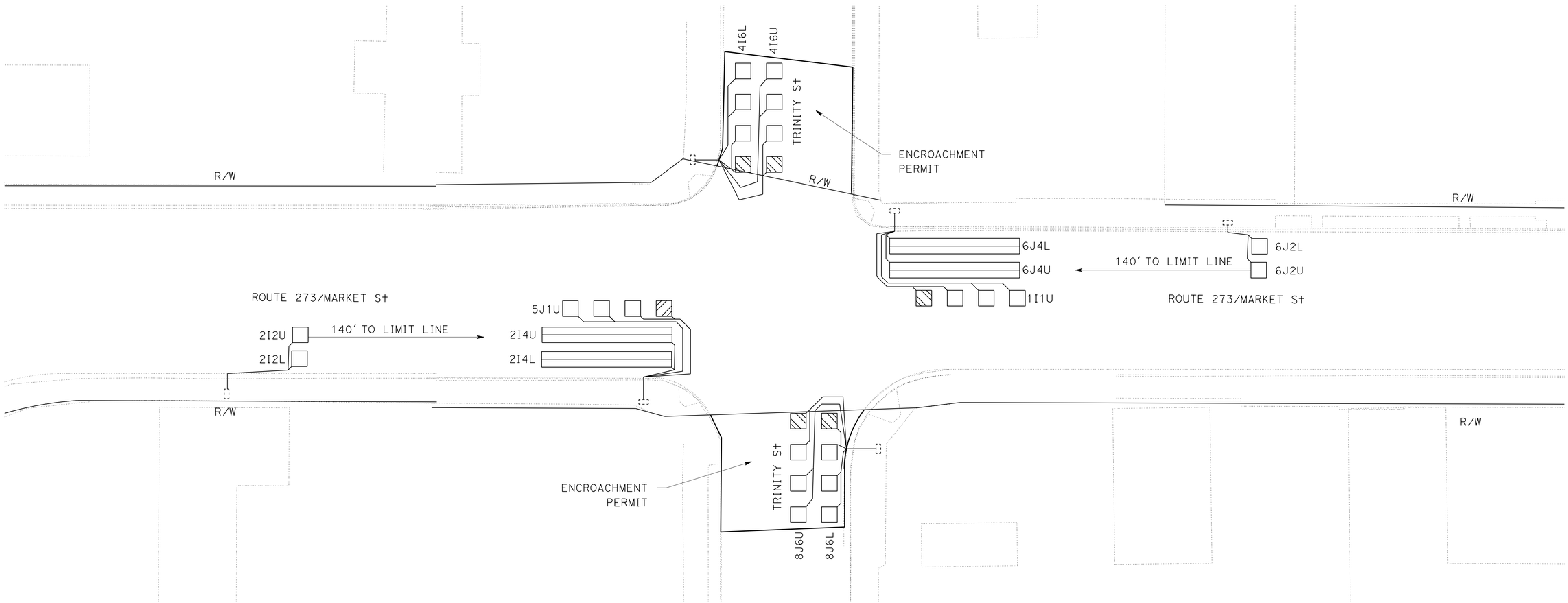

MODIFY SIGNAL LOCATION 16

NO SCALE

E-14

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LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	42	60

J. Hannigan 12-18-13
REGISTERED ELECTRICAL ENGINEER DATE

12-18-13
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REGISTERED PROFESSIONAL ENGINEER J.M. HANNIGAN No. E13665 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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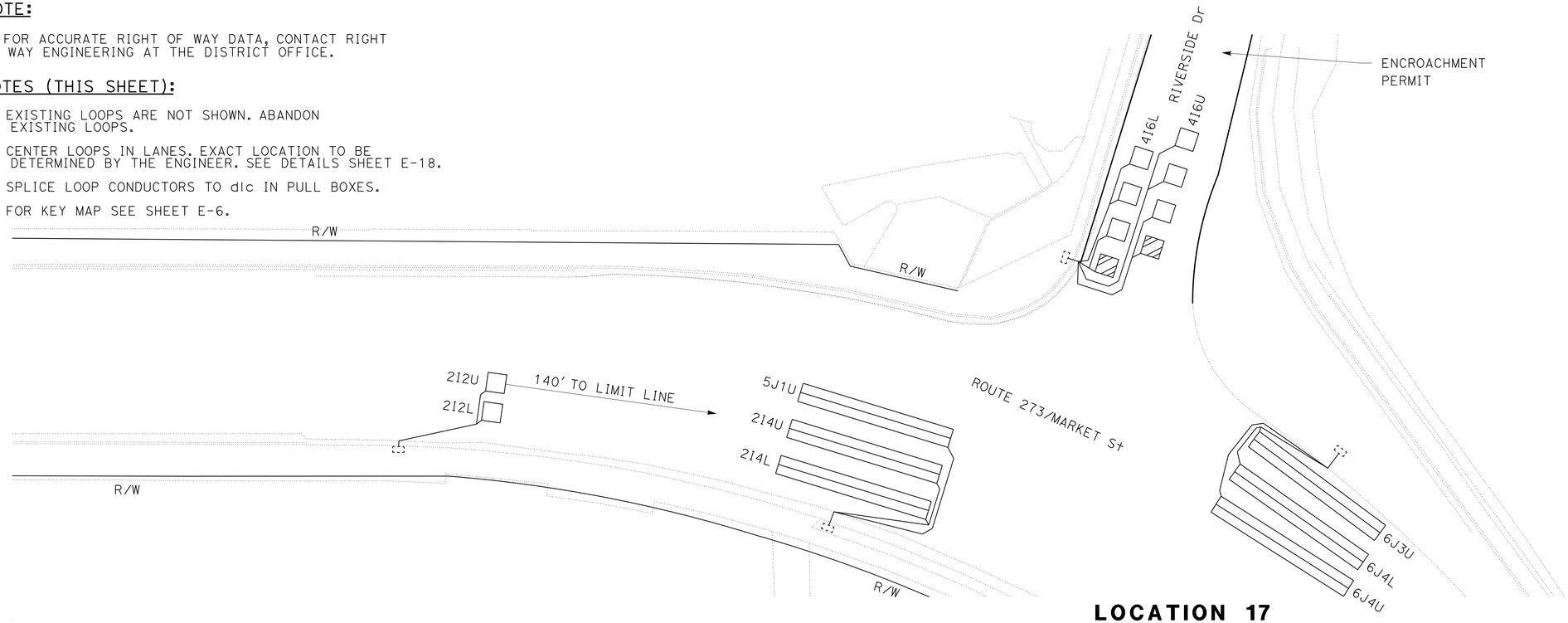
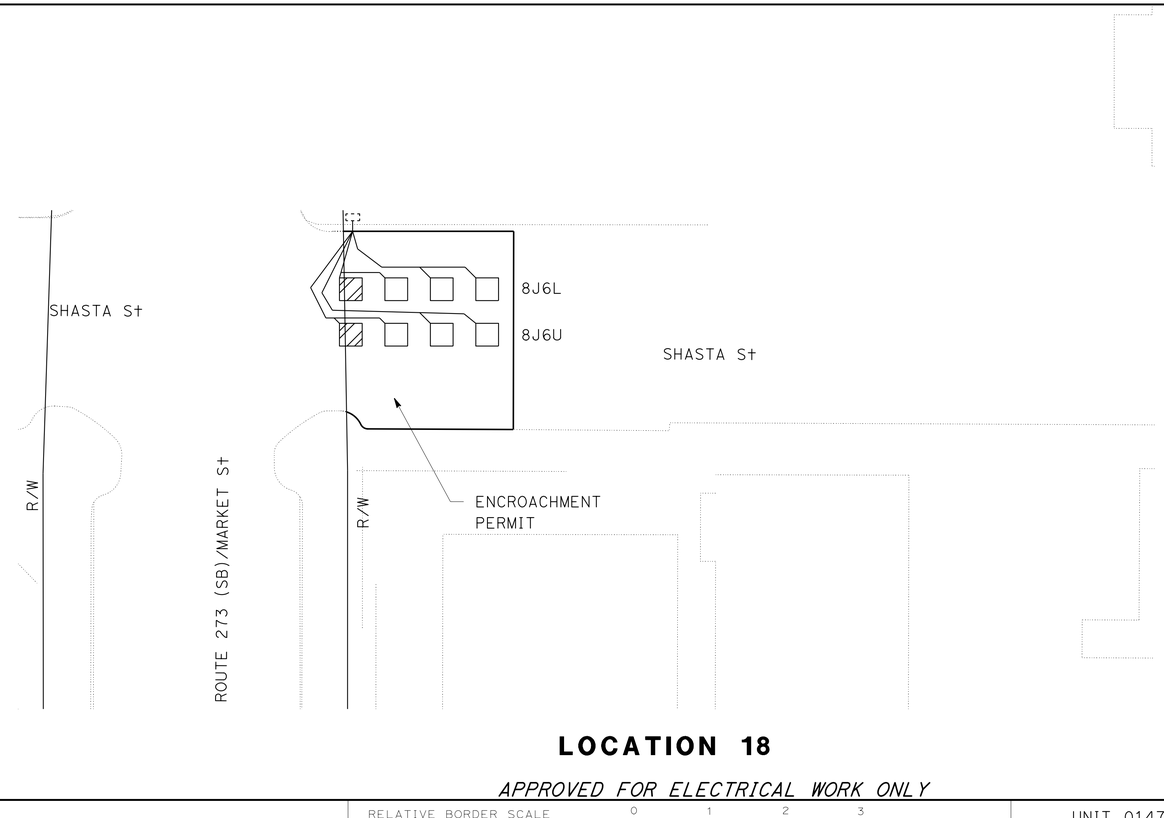


LOCATION 17



LOCATION 18

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MODIFY SIGNAL LOCATIONS 17 AND 18

NO SCALE

E-15

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	43	60

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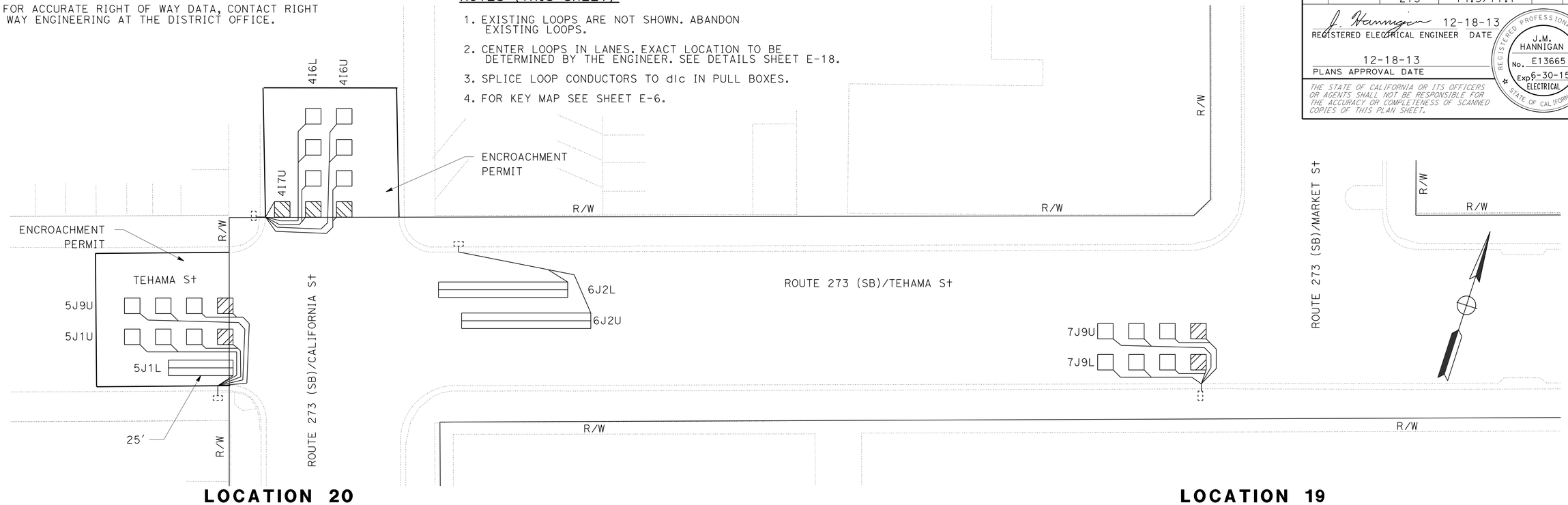
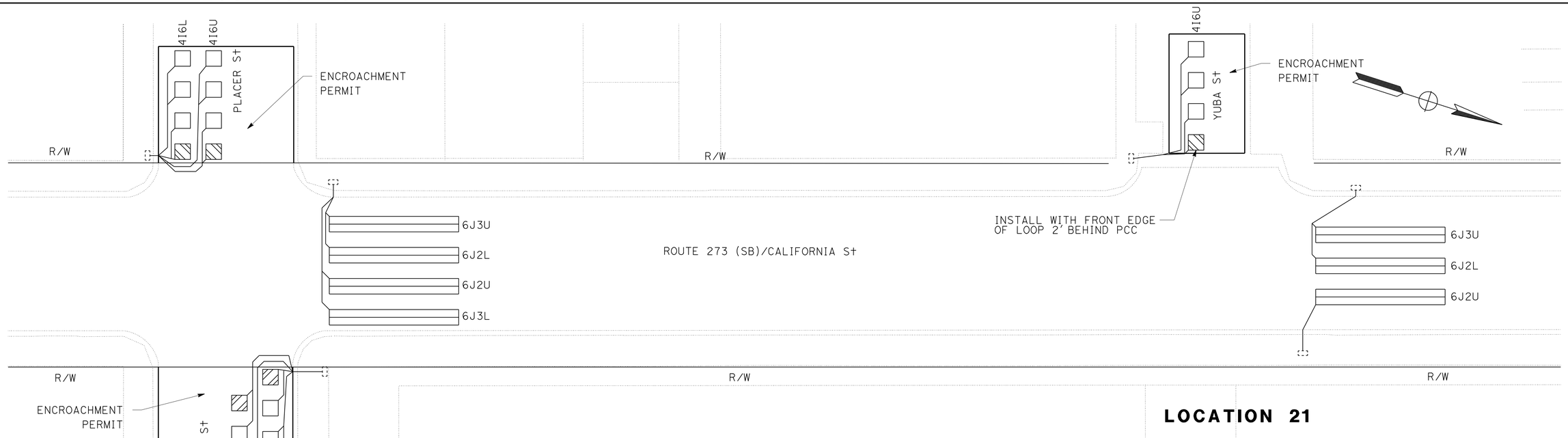


LOCATION 20

LOCATION 19



LOCATION 22

LOCATION 21

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MODIFY SIGNAL LOCATIONS 19, 20, 21 AND 22

NO SCALE

E-16

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	44	60

J. Hannigan 12-18-13
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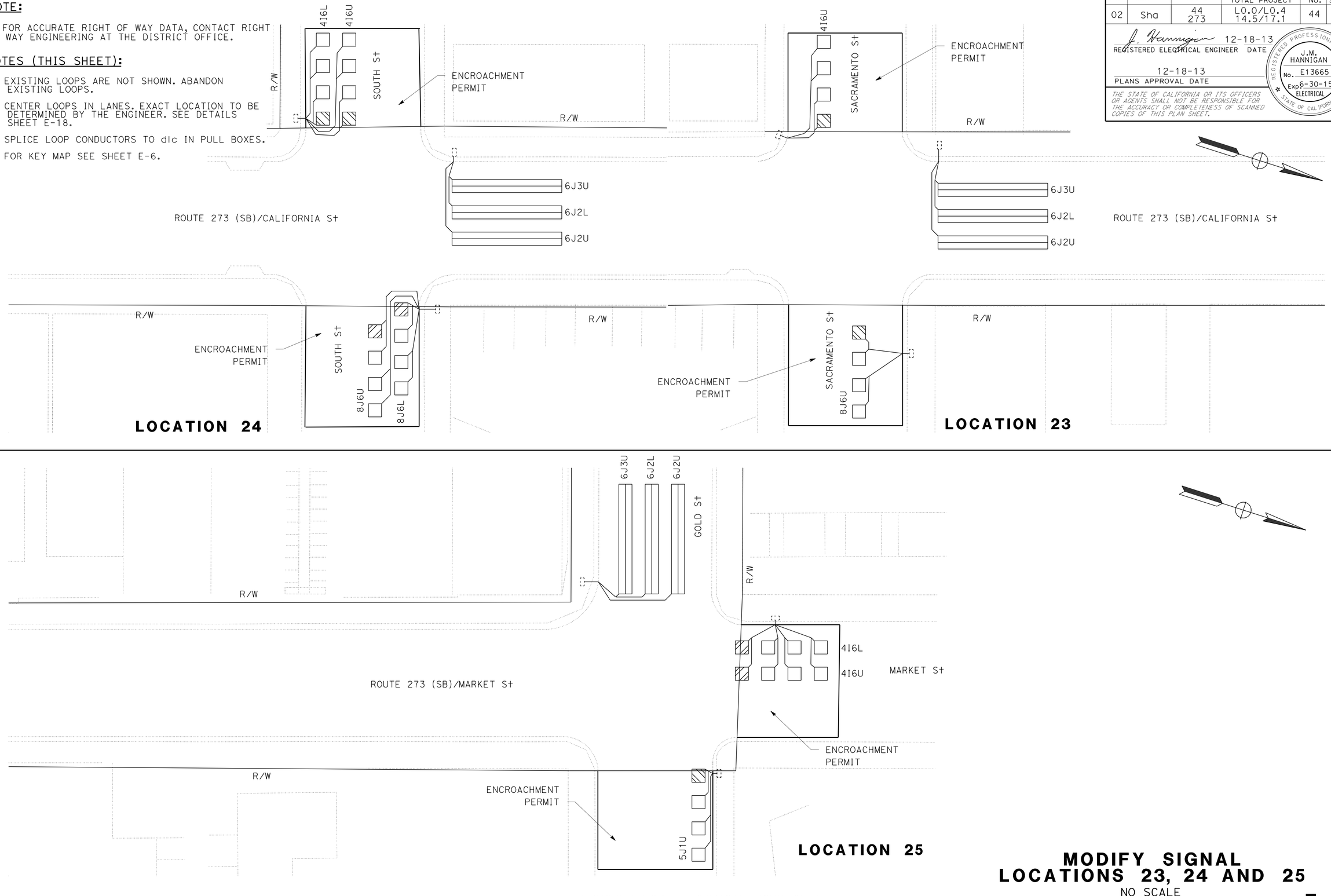

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MODIFY SIGNAL LOCATIONS 23, 24 AND 25

NO SCALE

E-17

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	45	60

J. Hannigan 12-18-13
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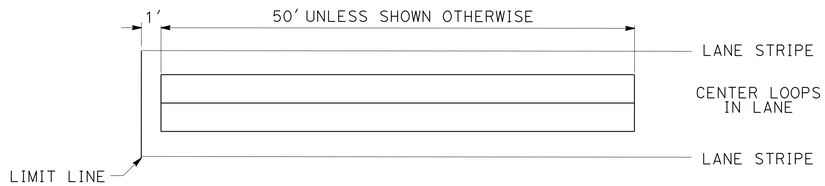
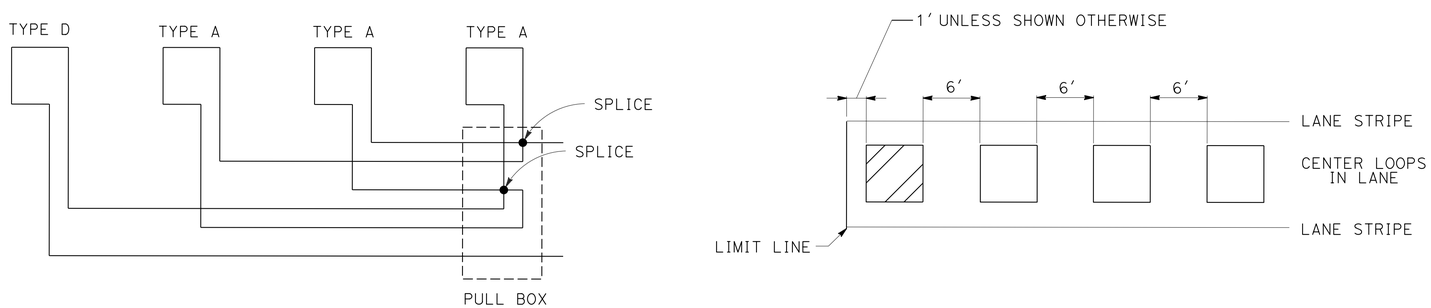


TYPE C LOOP ARRAY



TYPE D/TYPE A LOOP ARRAY

ELECTRICAL DETAILS

NO SCALE

E-18

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	46	60

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NOTE:

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

SHEET No.	(N) TYPE A LOOP EACH
E-2	8
E-3	10
E-4	10
E-5	3

MODIFY TRAFFIC MONITORING STATIONS ELECTRICAL QUANTITIES

E-19

REVISED BY | DATE REVISED
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44 273	L0.0/L0.4 14.5/17.1	47	60

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NOTE:

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

SHEET No.	(N) TYPE A LOOP	(N) TYPE D LOOP	(N) TYPE C LOOP - 50'	(N) TYPE C LOOP - 25'
	EACH	EACH	EACH	EACH
E-7	27	6	8	
E-8	21	4	5	1
E-9	31	7	6	
E-10	40	13	13	
E-11	15	5	7	
E-12	33	10	7	
E-13	18	6	3	
E-14	22	6	4	
E-15	14	4	6	
E-16	33	12	9	1
E-17	27	9	9	

MODIFY SIGNAL ELECTRICAL QUANTITIES

E-20

REVISED BY | DATE REVISED
J. M. HANNIGAN | JIM ELGIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

P:\proj1\02\4G150_plans\pse\24g150ua020.dgn

LAST REVISION 12-18-13 | DATE PLOTTED => 17-JAN-2014 | TIME PLOTTED => 10:12

M

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
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

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

O

Oblr	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

P

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 Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,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

Q

Qty	QUANTITY

R

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

S

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
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	48	60

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

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TO ACCOMPANY PLANS DATED 12-18-13

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^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	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.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	49	60

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Roberta L. McLaughlin No. C40375 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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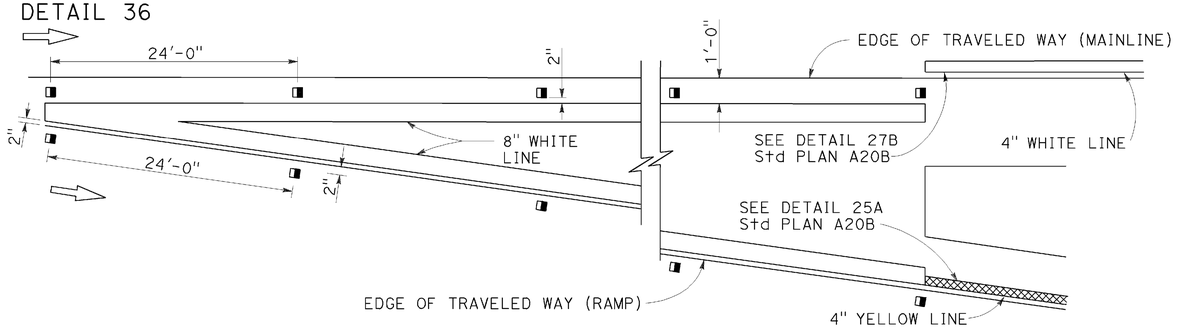
TO ACCOMPANY PLANS DATED 12-18-13

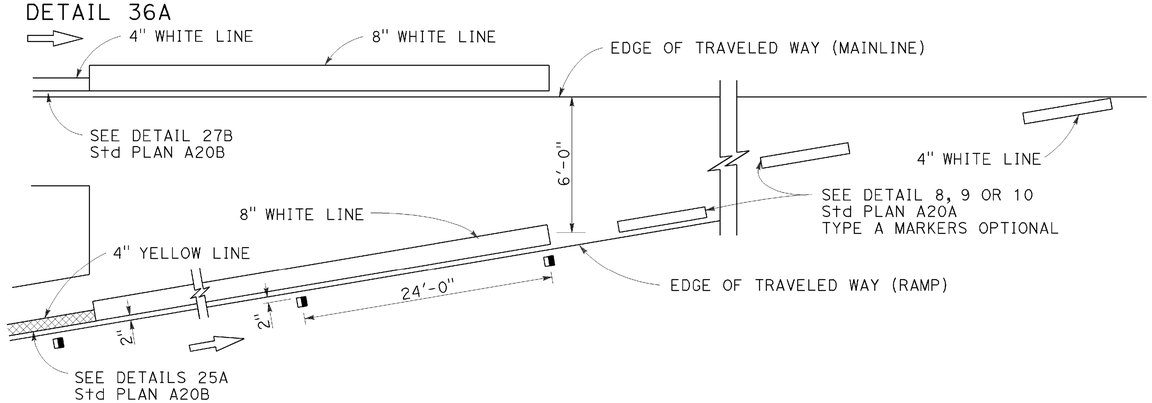
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



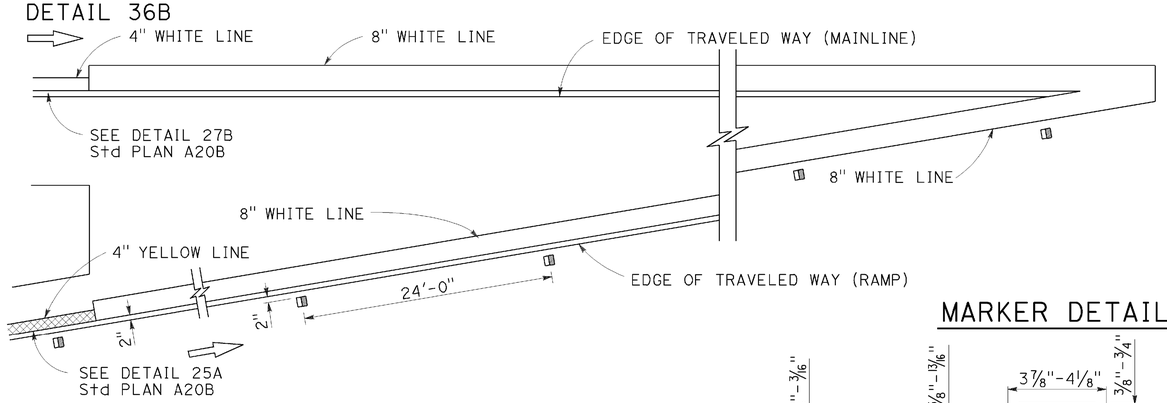
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



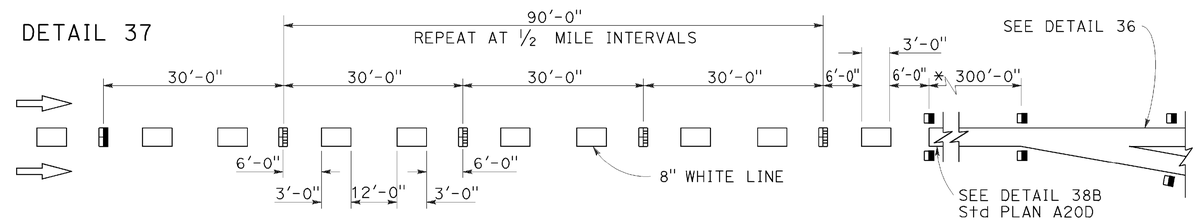
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

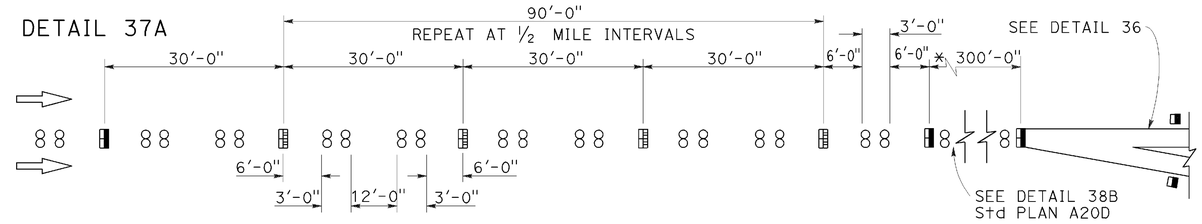


LANE DROP AT EXIT RAMPS

DETAIL 37



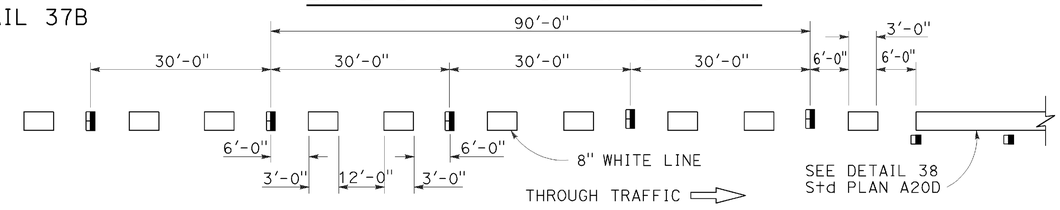
DETAIL 37A



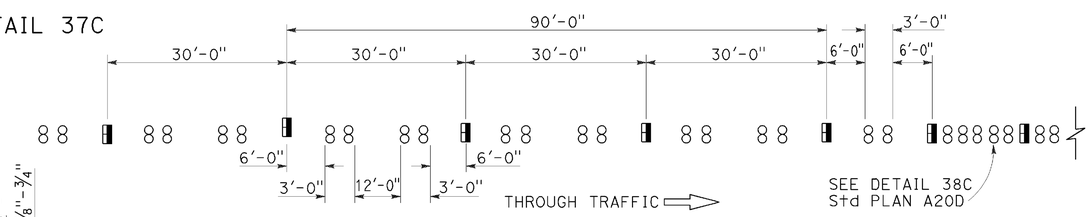
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

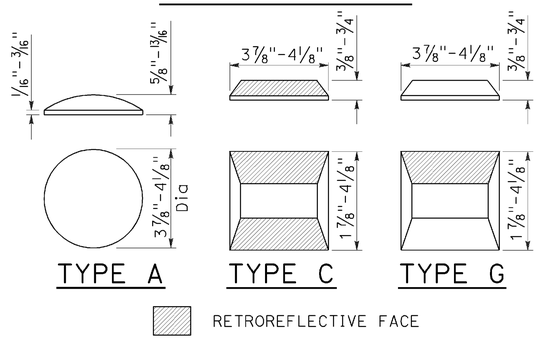
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ⊟ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	50	60

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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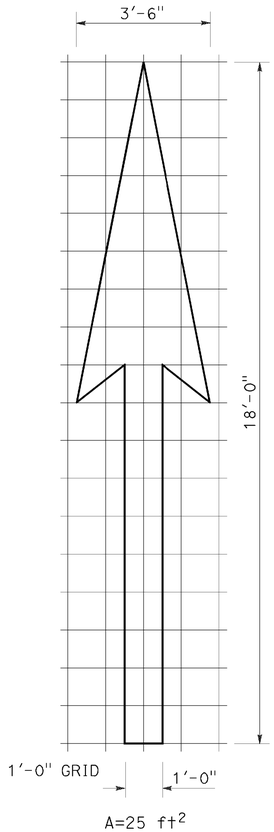
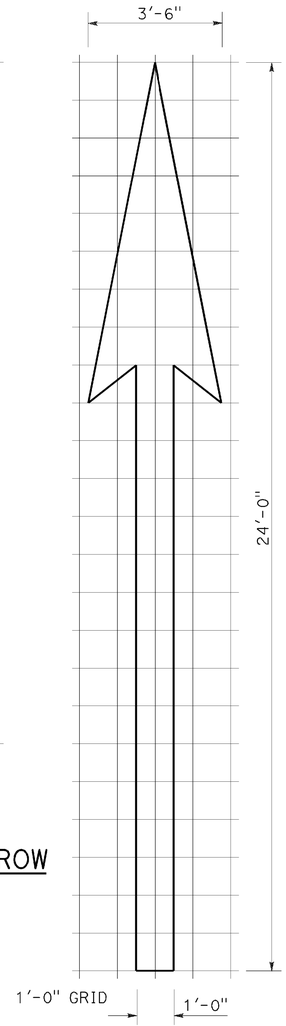
TO ACCOMPANY PLANS DATED 12-18-13

2010 REVISED STANDARD PLAN RSP A24A



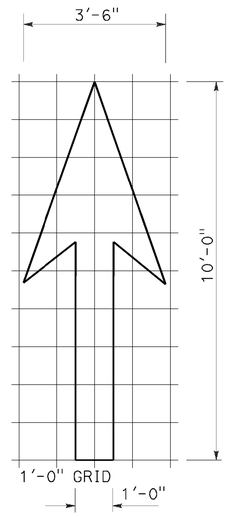
A=25 ft²

TYPE I 18'-0" ARROW



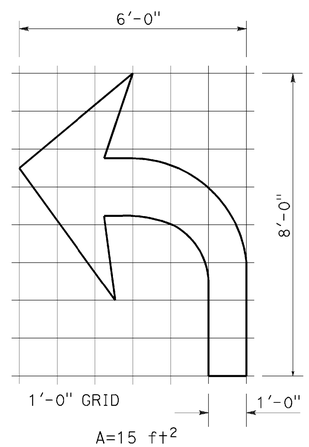
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

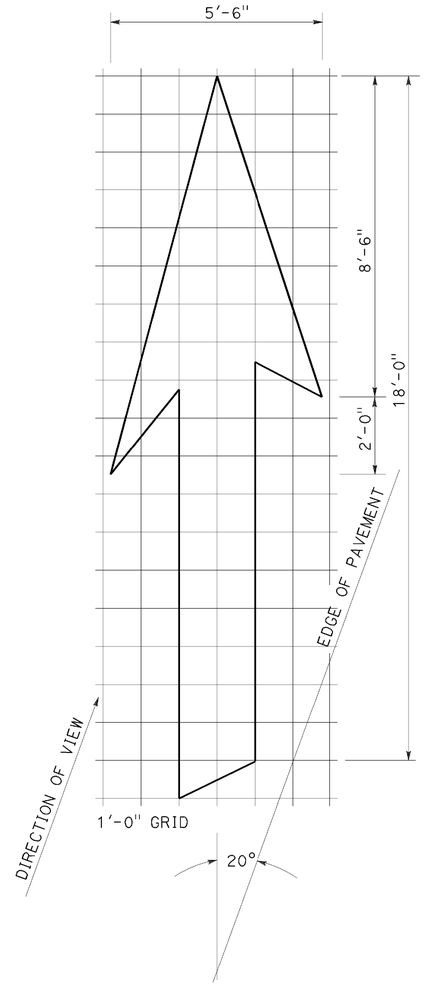
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

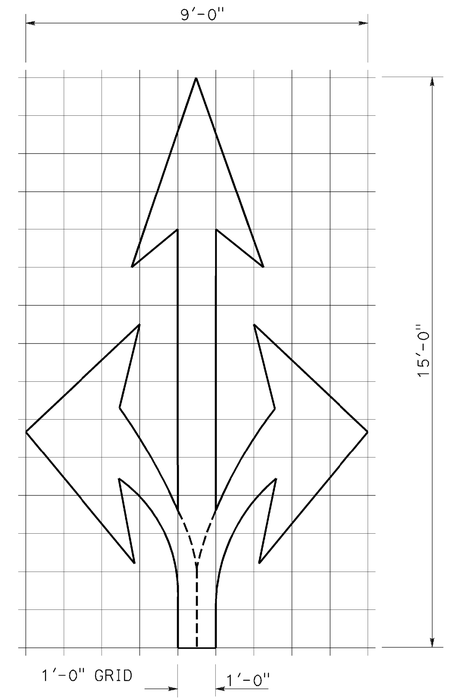
(For Type IV (R) arrow, use mirror image)



A=42 ft²

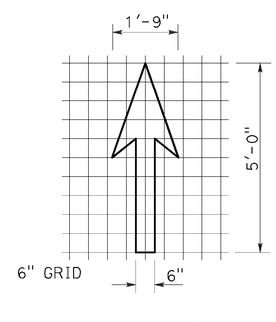
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



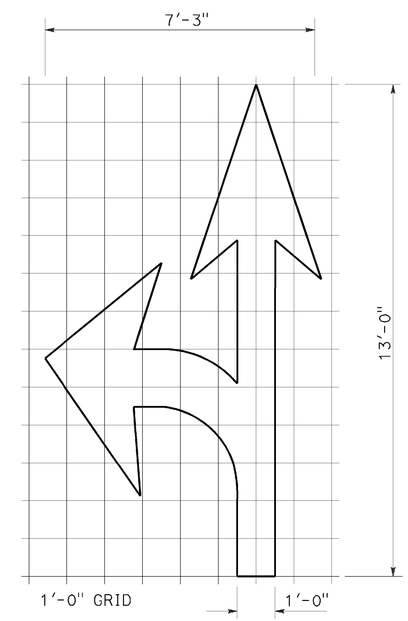
A=36 ft²

TYPE VIII ARROW



A=3.5 ft²

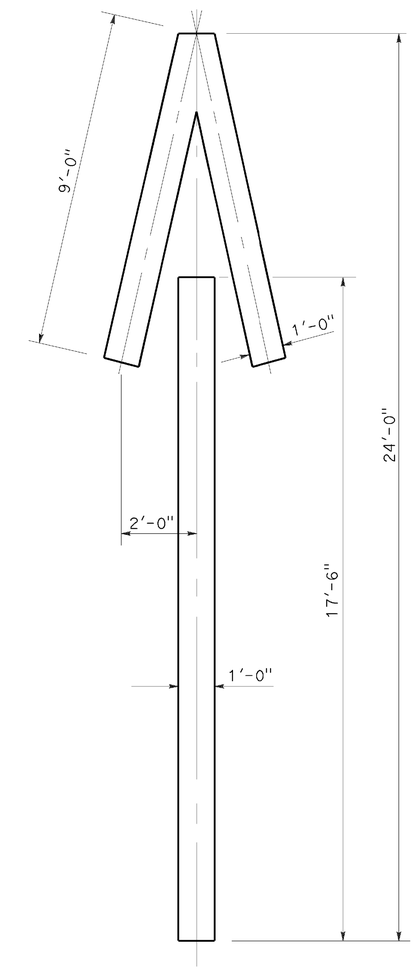
BIKE LANE ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	51	60

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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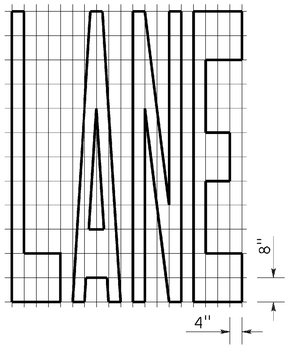
TO ACCOMPANY PLANS DATED 12-18-13



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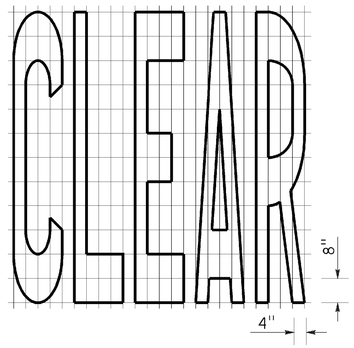
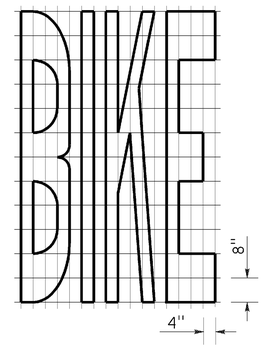
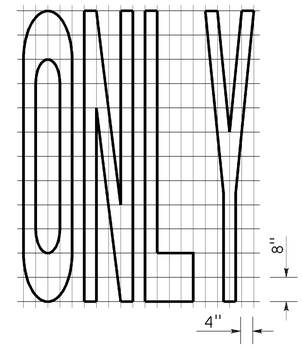


A=27 ft^2



A=21 ft^2



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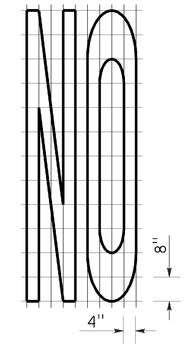
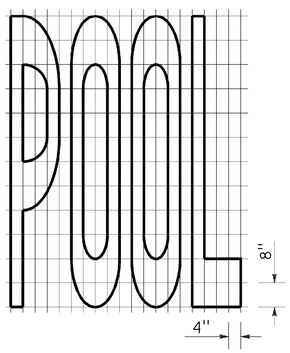


A=14 ft^2



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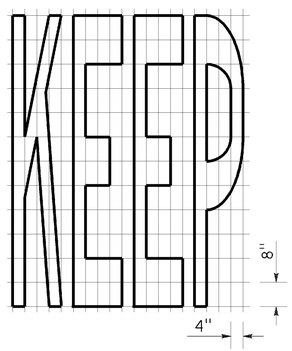
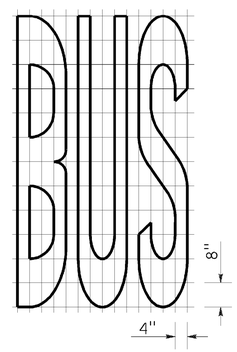
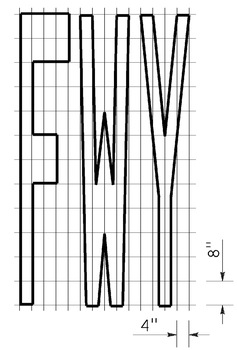


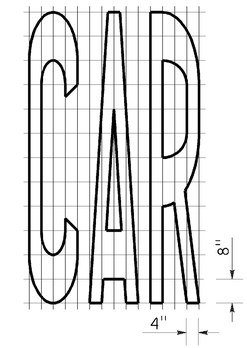
A=24 ft^2



A=20 ft^2

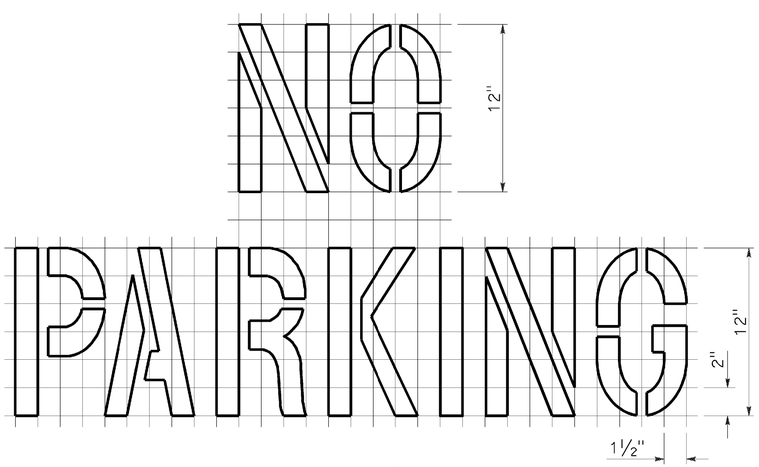


A=16 ft^2



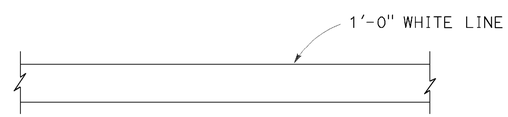
A=17 ft^2

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

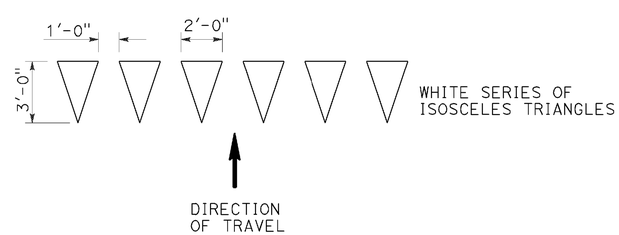


A=2 ft^2

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	52	60

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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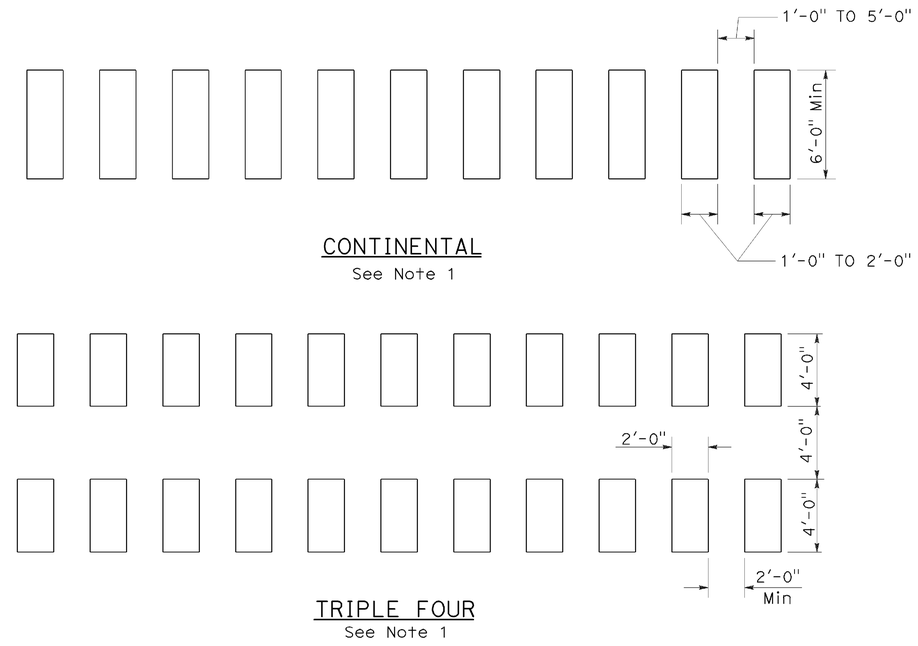
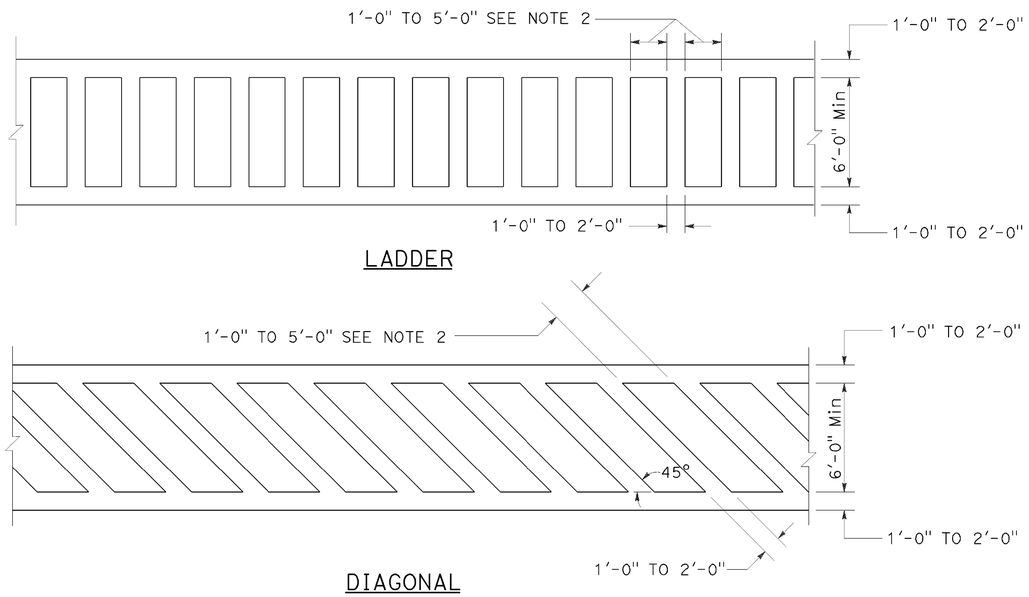
TO ACCOMPANY PLANS DATED 12-18-13

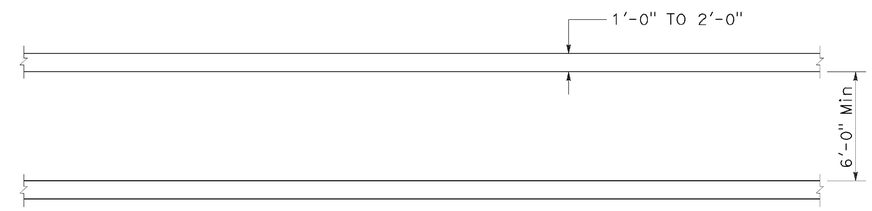




HIGHER VISIBILITY CROSSWALKS

NOTES:

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



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

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

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	53	60

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 12-18-13

2010 REVISED STANDARD PLAN RSP T9

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		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	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%
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 recommmended 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

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	54	60

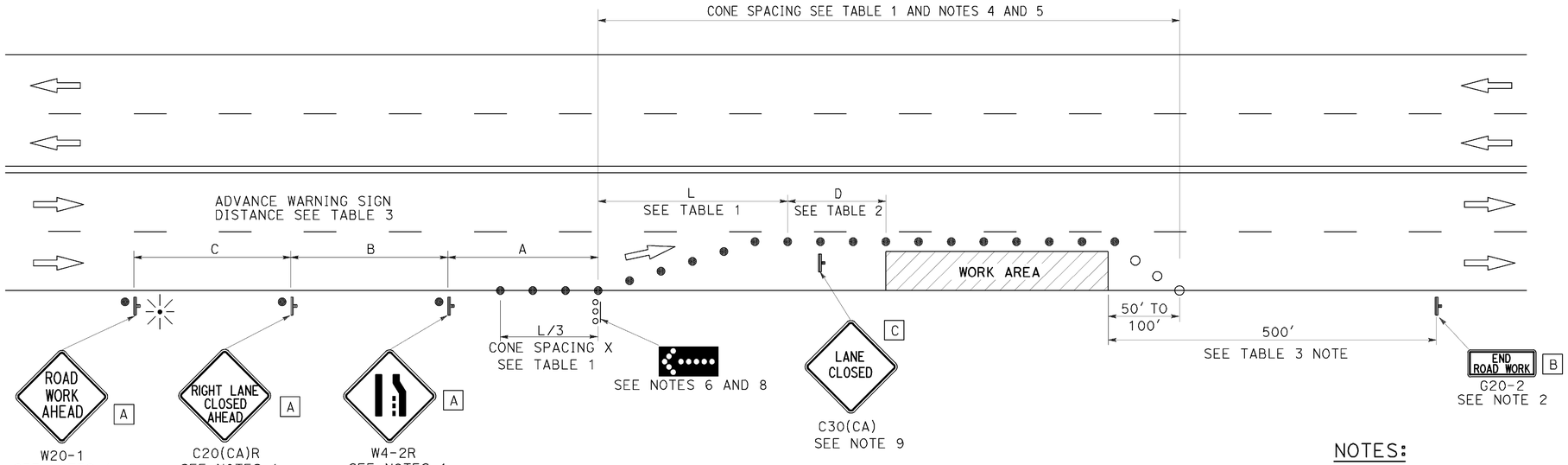
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 12-18-13



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 approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for lane 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 closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. 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.
8. 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.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. 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

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	55	60

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 12-18-13

NOTES:

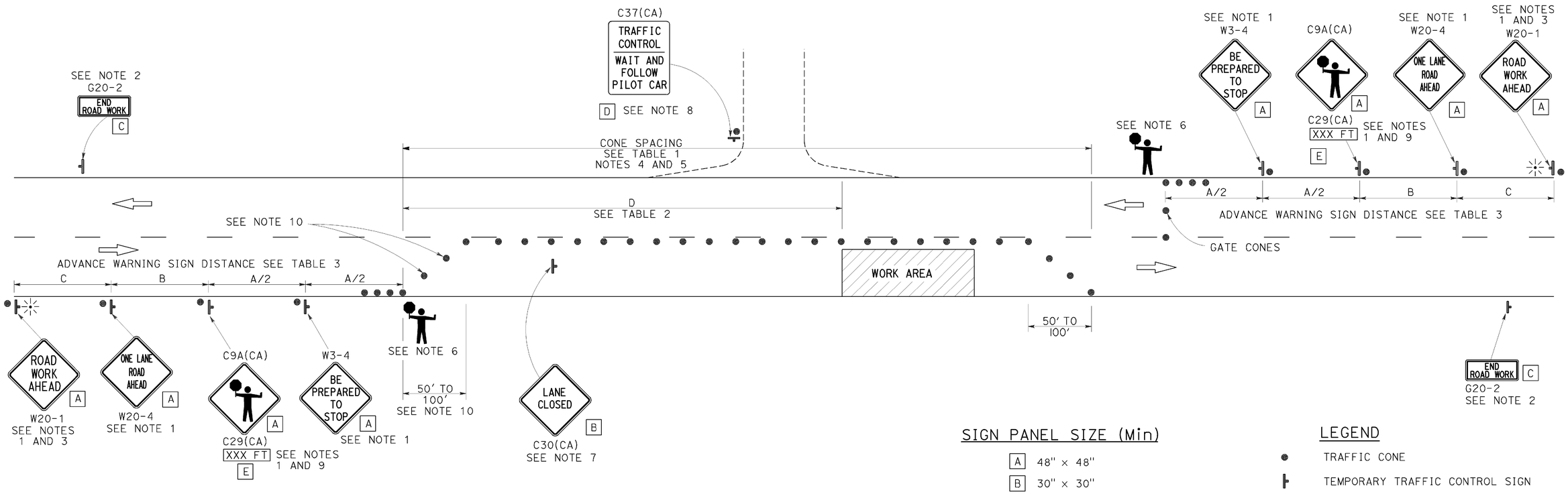
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, 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.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

A	48" × 48"
B	30" × 30"
C	36" × 18"
D	36" × 42"
E	20" × 7"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane 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 closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13
DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	56	60

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 12-18-13

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

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
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

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

NOTES:

1. 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.
2. 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.
3. 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

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	57	60

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 12-18-13

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
R	r	CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION

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

FLASHING BEACON

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

SIGNAL EQUIPMENT

NEW	EXISTING	
C	C	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
PV	PV	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:

1. All signal sections shall be 12" unless shown otherwise.
2. 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

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	58	60

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 12-18-13

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

SIGN No. 12345
10 ISL SCI 1.0

- SIGN NUMBER - PLACE ON POST OR STRUCTURE
- TRANSFORMER RATING (kVA)
- LIGHTING CONTROL TYPE
- NUMBER AND TYPE OF FIXTURES

DO NOT PLACE ON STANDARD OR STRUCTURE

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- MAST ARM LENGTH, IF SHOWN. DO NOT PLACE ON STANDARD OR STRUCTURE
- EQUIPMENT NUMBER - PLACE ON STANDARD OR STRUCTURE. EXISTING EQUIPMENT NUMBERS ARE SHOWN IN PARENTHESIS

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC, 12P#18

- PAIR
- NUMBER AND SIZE OF CONDUCTORS AND CABLES
- SIZE OF CONDUIT IN INCHES

ø1, ø2, ø2P, etc.	TRAFFIC PHASE IDENTIFICATION FOR SIGNAL FACES, DETECTORS AND PHASE DIAGRAMS
1 2 3	LEGEND NUMBERS
A B C	EQUIPMENT, SIGNAL POLES, INSTALLATION OR ITEMS
1 2 3	CONDUIT RUN NUMBERS

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- WIND VELOCITY = 100 mph
- CASE 3 ARM LOADING
- STANDARD TYPE
- STANDARD PLAN SHEET NUMBER
- DETAIL, NUMBER, SECTION, TYPE OR ELEVATION

MISCELLANEOUS EQUIPMENT

NEW	EXISTING	
CMS	cms	CHANGEABLE MESSAGE SIGN
		CLOSED CIRCUIT TELEVISION CAMERA
		HIGHWAY ADVISORY RADIO POLE AND ANTENNA
EMS	ems	EXTINGUISHABLE MESSAGE SIGN
M V	m v	DETECTION DEVICE M = MICROWAVE SENSOR V = VIDEO IMAGE SENSOR

WIRING DIAGRAM LEGEND

----	EXTERNAL CONDUCTOR
	CONDUCTOR OR BUS
	TIE POINT
	CONTACTOR COIL
	CONTACTOR, NO CONTACT
	TERMINAL BLOCKS
	CONTACTOR, NC CONTACT
	ENCLOSURE BOND
	GROUNDING ELECTRODE
	CIRCUIT BREAKER
	RECEPTACLE

PULL BOXES

NEW	EXISTING	
		PULL BOX, No. 5 UNLESS OTHERWISE INDICATED OR NOTED
3	9A(21)	PULL BOX, ADDITIONAL DESIGNATIONS OR DESCRIPTIONS

3 No. 3½ PULL BOX
5 No. 5 PULL BOX
6 No. 6 PULL BOX
7 No. 7 (CEILING PULL BOX)
8 No. 8 (PENDANT SOFFIT PULL BOX)
9 No. 9 PULL BOX
9A No. 9A PULL BOX

(C) COMMUNICATIONS PULL BOX
(E) PULL BOX WITH EXTENSION
(S) SPRINKLER CONTROL PULL BOX
(21) ANCHOR BOLTS AND CONDUIT FOR FUTURE INSTALLATION OF TYPE 21 STANDARD
(T) TRAFFIC PULL BOX

VEHICLE DETECTORS

5 J 9 U

- VEHICLE DETECTOR DESIGNATION
- U = UPPER
  L = LOWER
- SLOT NUMBER IN INPUT FILE
- INPUT FILE (I OR J)
- PHASE

NEW	EXISTING	
		TYPE A DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE B DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE C DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE D DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE E DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE Q DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		MAGNETIC DETECTOR
DH	dh	DETECTOR HANDHOLE
		MICROWAVE OR VIDEO DETECTION ZONE

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

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha	44,273	L0.0/L0.4 14.5/17.1	59	60

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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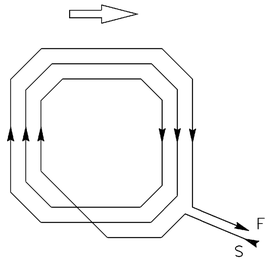
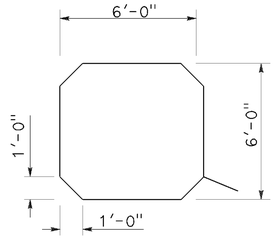
TO ACCOMPANY PLANS DATED 12-18-13

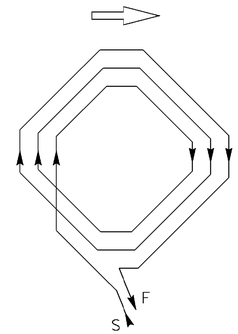


WINDING DETAIL



SAWCUT DETAIL

TYPE A LOOP DETECTOR CONFIGURATION



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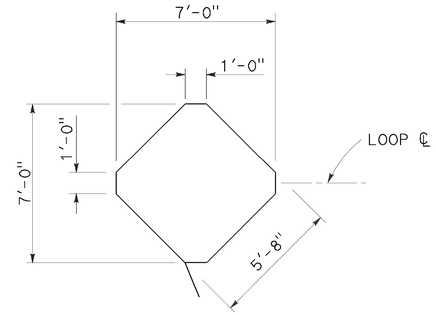
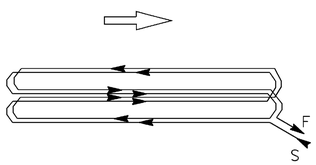
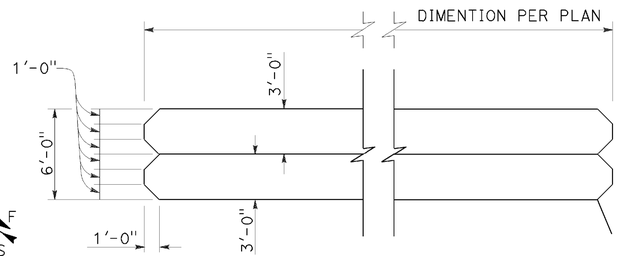


SAWCUT DETAIL

TYPE B LOOP DETECTOR CONFIGURATION

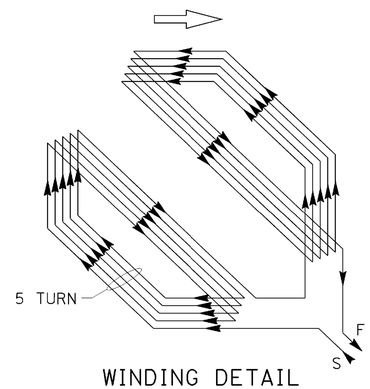


WINDING DETAIL

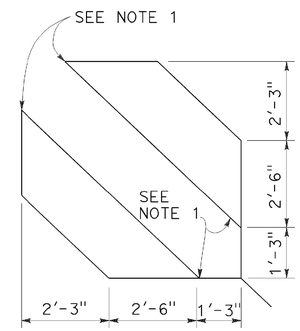


SAWCUT DETAIL

TYPE C LOOP DETECTOR CONFIGURATION

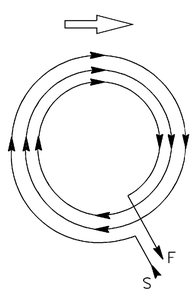


WINDING DETAIL

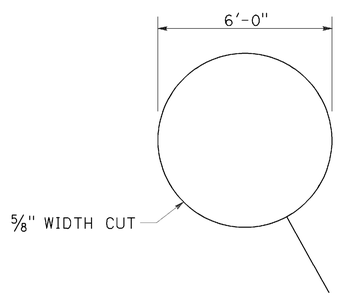


SAWCUT DETAIL

TYPE D LOOP DETECTOR CONFIGURATION

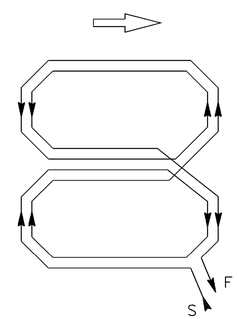


WINDING DETAIL

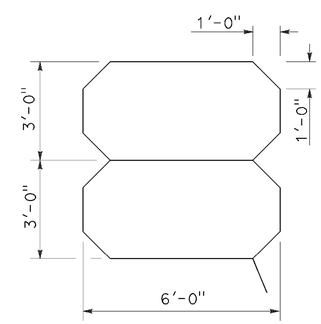


SAWCUT DETAIL

TYPE E LOOP DETECTOR CONFIGURATION

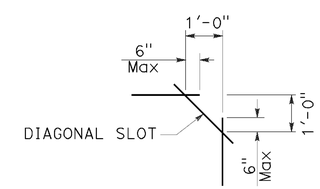


WINDING DETAIL



SAWCUT DETAIL

TYPE Q LOOP DETECTOR CONFIGURATION



PLAN VIEW OF DIAGONAL SLOT AT CORNERS

NOTES:

1. Round corners of acute angle sawcuts to prevent damage to conductors.
2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5B

2010 REVISED STANDARD PLAN RSP ES-5B

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
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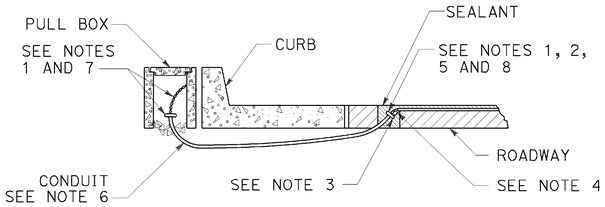
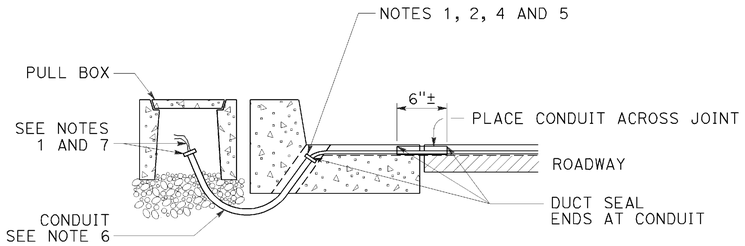
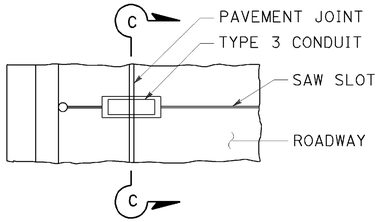
TO ACCOMPANY PLANS DATED 12-18-13



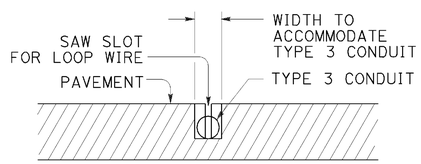
TYPE A
CURB TERMINATION DETAIL



CROSS SECTION

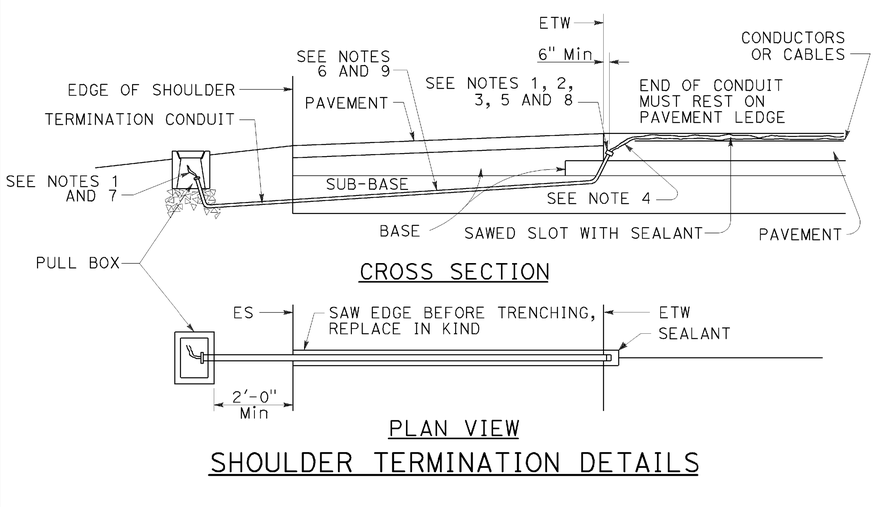


PLAN VIEW



SECTION C-C

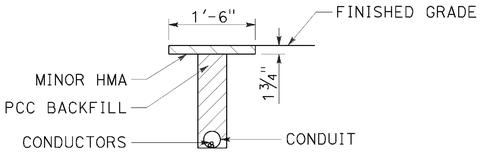
TYPE B
CURB TERMINATION DETAIL



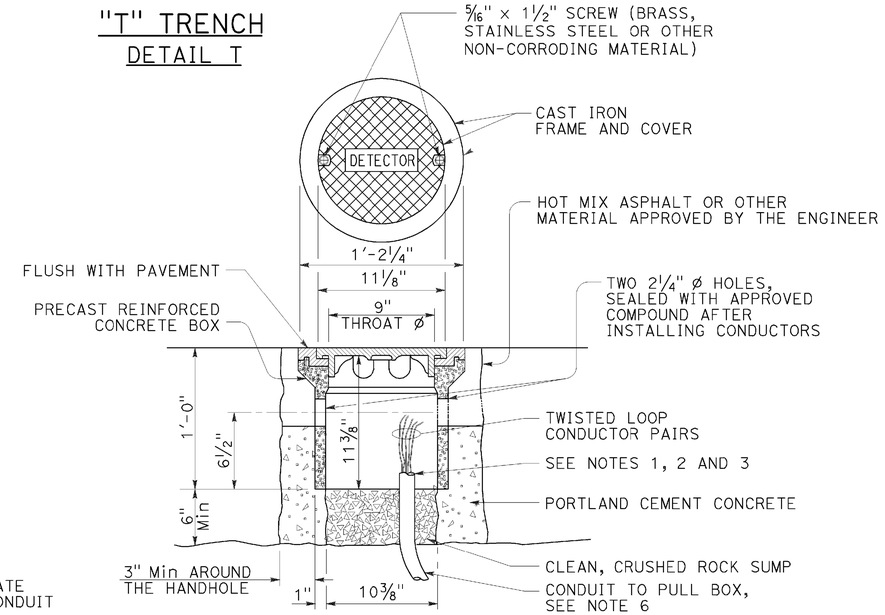
CROSS SECTION

PLAN VIEW

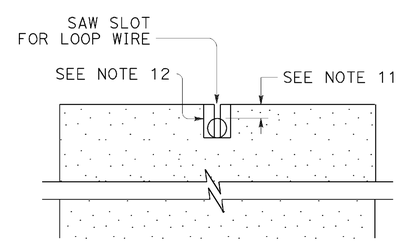
SHOULDER TERMINATION DETAILS



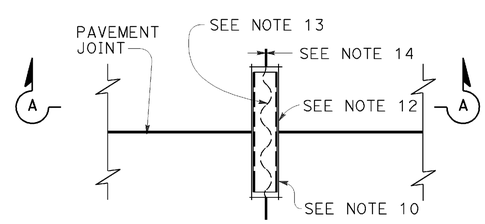
"T" TRENCH
DETAIL T



DETECTOR HANDHOLE DETAIL

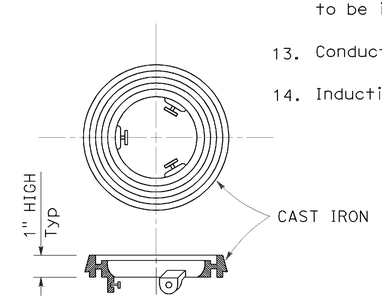


SECTION A-A



PLAN VIEW

TYPICAL LOOP LEAD-IN DETAIL AT PAVEMENT JOINT



LOCKING GRADE RING

NOTES:

1. Bushing shall be used at end of conduit.
2. Tape detector conductors or cables 3" each side of bushings.
3. Install duct seal compound to each end of termination conduit before installing sealant.
4. Round all sharp edges where detector conductors or cables have to pass.
5. End of conduit shall be 3⅛" below roadway surface.
6.

Conduit size	Loop conductors
1"C minimum	1 to 2 pairs
1½"C minimum	3 to 4 pairs
2"C minimum	5 or more pairs

7. Splice detector conductors or cables to detector lead-in-cable.
8. Location of detector handhole when shown on plans.
9. When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
10. ¾"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
11. ½" Minimum between top of conduit and pavement surface.
12. Sawcut shall not exceed 1" in width and ⅛" longer than conduit to be installed.
13. Conductors with ½" minimum slack inside conduit.
14. Inductive loop detector saw slot.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (CURB TERMINATION AND HANDHOLE)

NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5D

2010 REVISED STANDARD PLAN RSP ES-5D

DATE PLOTTED => 17-JAN-2014
TIME PLOTTED => 10:14