Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	1	91

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-00C(372)E

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MONTEREY AND SAN LUIS OBISPO COUNTIES

AT VARIOUS LOCATIONS

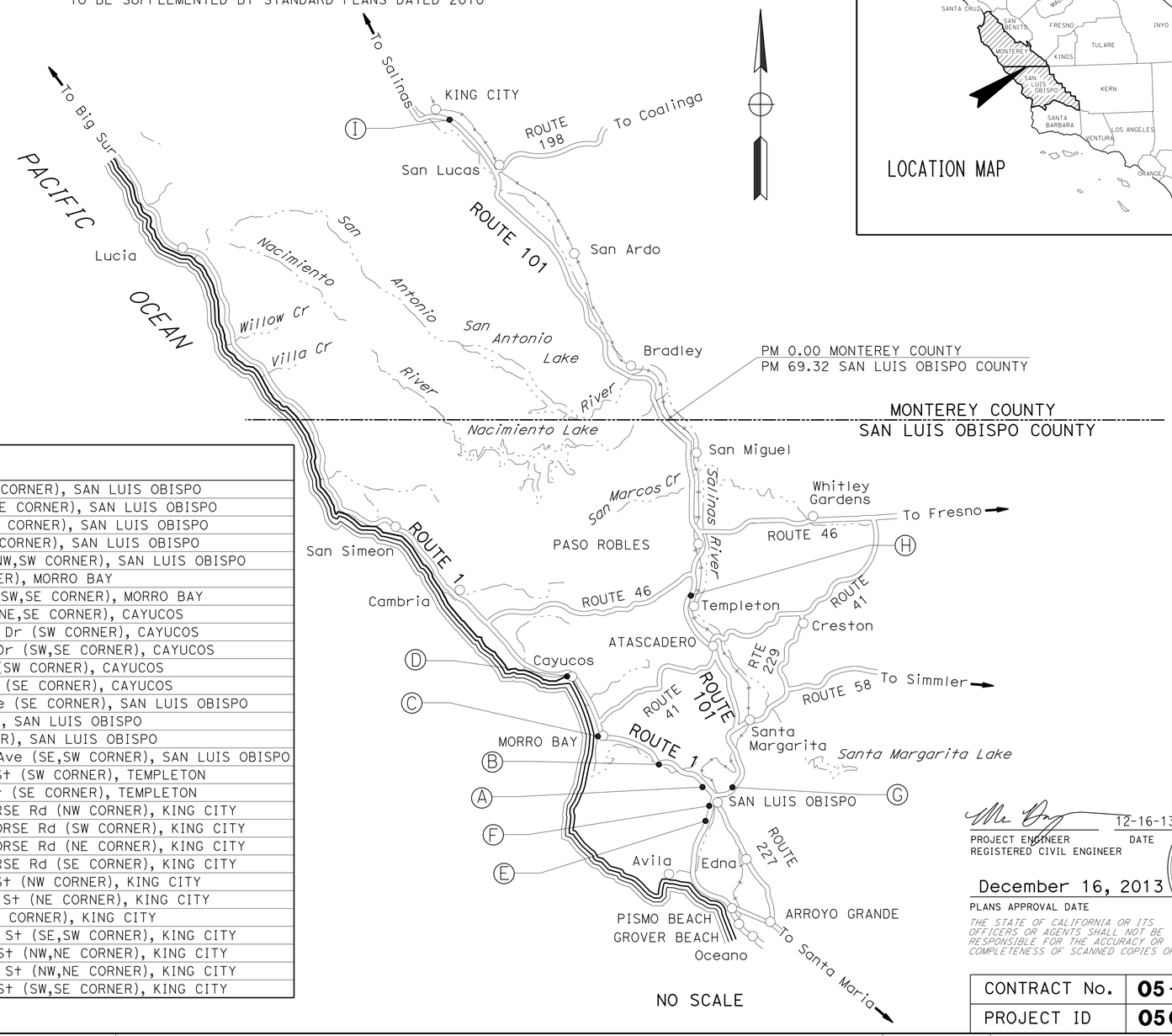
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-29	CONSTRUCTION DETAILS
30	DRAINAGE PROFILES AND QUANTITIES
31-49	UTILITY PLANS
50	CONSTRUCTION AREA SIGNS
51	MOTORIST INFORMATION PLAN AND QUANTITIES
52	SIGN QUANTITIES
53	PAVEMENT DELINEATION QUANTITIES
54-55	SUMMARY OF QUANTITIES
56-68	ELECTRICAL PLANS
69-91	REVISED STANDARD PLANS

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

LOCATION MAP



LOCATIONS OF CONSTRUCTION

LOCATION	CURB RAMP No.	ROUTE	POST MILE	DESCRIPTION
A	1-2	1	18.0	ROUTE 1 AND WESTMONT Ave (NW,SW CORNER), SAN LUIS OBISPO
B	3-4	1	22.2	ROUTE 1 AND DAIRY CREEK Rd (NE,SE CORNER), SAN LUIS OBISPO
	5-6	1	22.2	ROUTE 1 AND HOLLISTER Ave (NW,SW CORNER), SAN LUIS OBISPO
	7-8	1	22.7	ROUTE 1 AND EDUCATION Dr (NE,SE CORNER), SAN LUIS OBISPO
	9-10	1	22.7	ROUTE 1 AND CUESTA COLLEGE Rd (NW,SW CORNER), SAN LUIS OBISPO
C	11-12	1	29.6	RADCLIFF AND MAIN St (SW,SE CORNER), MORRO BAY
	13-14	1	29.5	ROUTE 1 SB ON RAMP AND MAIN St (SW,SE CORNER), MORRO BAY
D	15-18	1	33.8	ROUTE 1 AND OLD CREEK Rd (NW,SW,NE,SE CORNER), CAYUCOS
	19	1	35.9	ROUTE 1 NB OFF RAMP AND CAYUCOS Dr (SW CORNER), CAYUCOS
	20-21	1	35.9	ROUTE 1 SB ON RAMP AND CAYUCOS Dr (SW,SE CORNER), CAYUCOS
	44	1	34.9	ROUTE 1 SB ON RAMP AND 13Th St (SW CORNER), CAYUCOS
	45	1	34.9	ROUTE 1 NB OFF RAMP AND 13Th St (SE CORNER), CAYUCOS
E	22	101	26.7	ROUTE 101 OFF RAMP AND PRADO Ave (SE CORNER), SAN LUIS OBISPO
	23	101	26.7	ELKS Rd AND PRADO Rd (NE CORNER), SAN LUIS OBISPO
F	24	101	28.9	ROUTE 101 AND OLIVE St (SW CORNER), SAN LUIS OBISPO
G	25-26	101	29.7	ROUTE 101 SB ON RAMP AND GRAND Ave (SE,SW CORNER), SAN LUIS OBISPO
H	27	101	52.4	ROUTE 101 NB OFF RAMP AND MAIN St (SW CORNER), TEMPLETON
	28	101	52.4	ROUTE 101 SB ON RAMP AND MAIN St (SE CORNER), TEMPLETON
I	29	101	37.1	ROUTE 101 NB ON RAMP AND WILDHORSE Rd (NW CORNER), KING CITY
	30	101	37.1	ROUTE 101 NB OFF RAMP AND WILDHORSE Rd (SW CORNER), KING CITY
	31	101	37.1	ROUTE 101 SB OFF RAMP AND WILDHORSE Rd (NE CORNER), KING CITY
	32	101	37.1	ROUTE 101 SB ON RAMP AND WILDHORSE Rd (SE CORNER), KING CITY
	33	101	39.9	ROUTE 101 NB ON RAMP AND FIRST St (NW CORNER), KING CITY
	34	101	39.9	ROUTE 101 SB OFF RAMP AND FIRST St (NE CORNER), KING CITY
	36	101	40.6	CANAL St AND FAIRGROUNDS Rd (SW CORNER), KING CITY
	35,39	101	40.6	ROUTE 101 NB OFF RAMP AND CANAL St (SE,SW CORNER), KING CITY
	37-38	101	40.6	ROUTE 101 NB ON RAMP AND CANAL St (NW,NE CORNER), KING CITY
	40-41	101	40.6	ROUTE 101 SB OFF RAMP AND CANAL St (NW,NE CORNER), KING CITY
	42-43	101	40.6	ROUTE 101 SB ON RAMP AND CANAL St (SW,SE CORNER), KING CITY

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

PROJECT MANAGER JOHN LUCHETTA

DESIGN ENGINEER SCOTT SHAVER

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 12-16-13

December 16, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 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.

CONTRACT No.	05-0R5304
PROJECT ID	0500000365

LAST REVISION 12-16-13 DATE PLOTTED => 24-MAR-2014 TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	2	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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NOTE:

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

CLIMATE REGION:

CENTRAL COAST

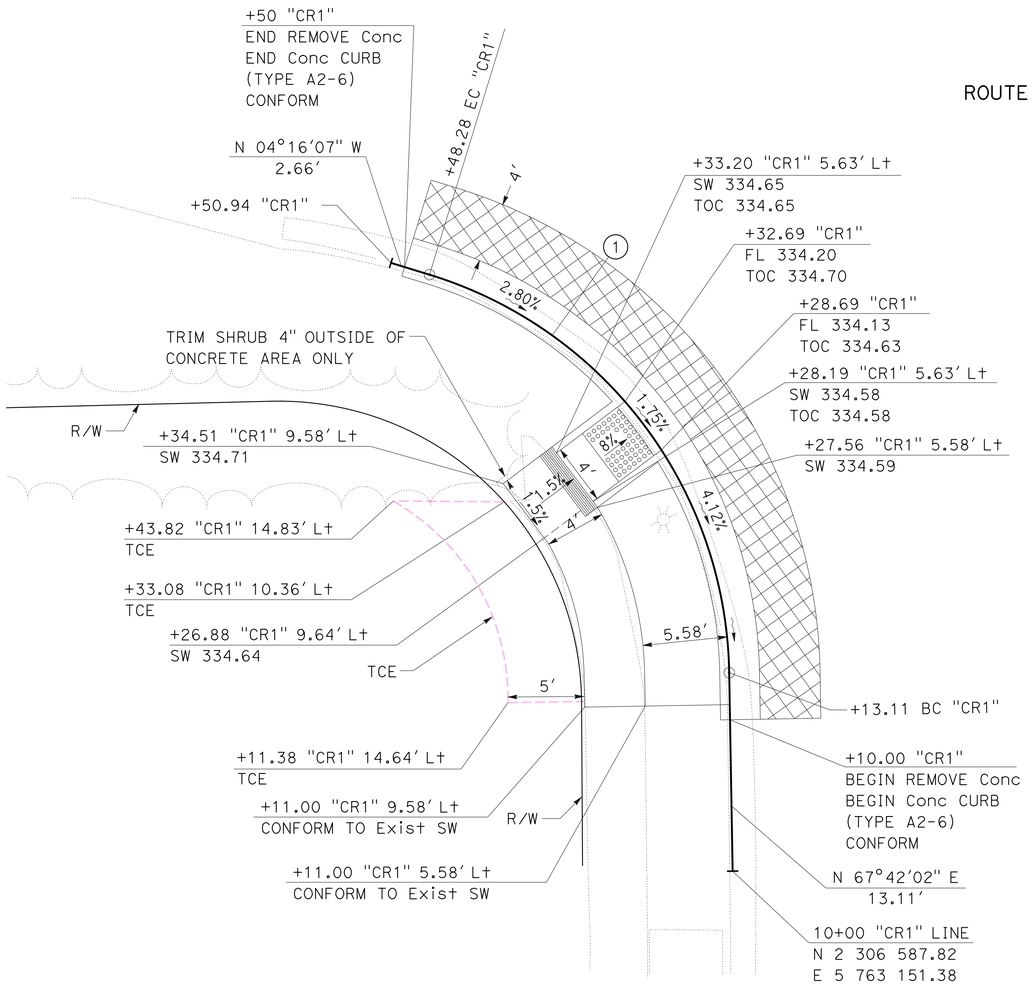
CURVE DATA

No. ⊛	R	Δ	T	L
1	28.00′	71°58′09"	20.33′	35.17′
2	22.30′	73°14′30"	16.57′	28.51′

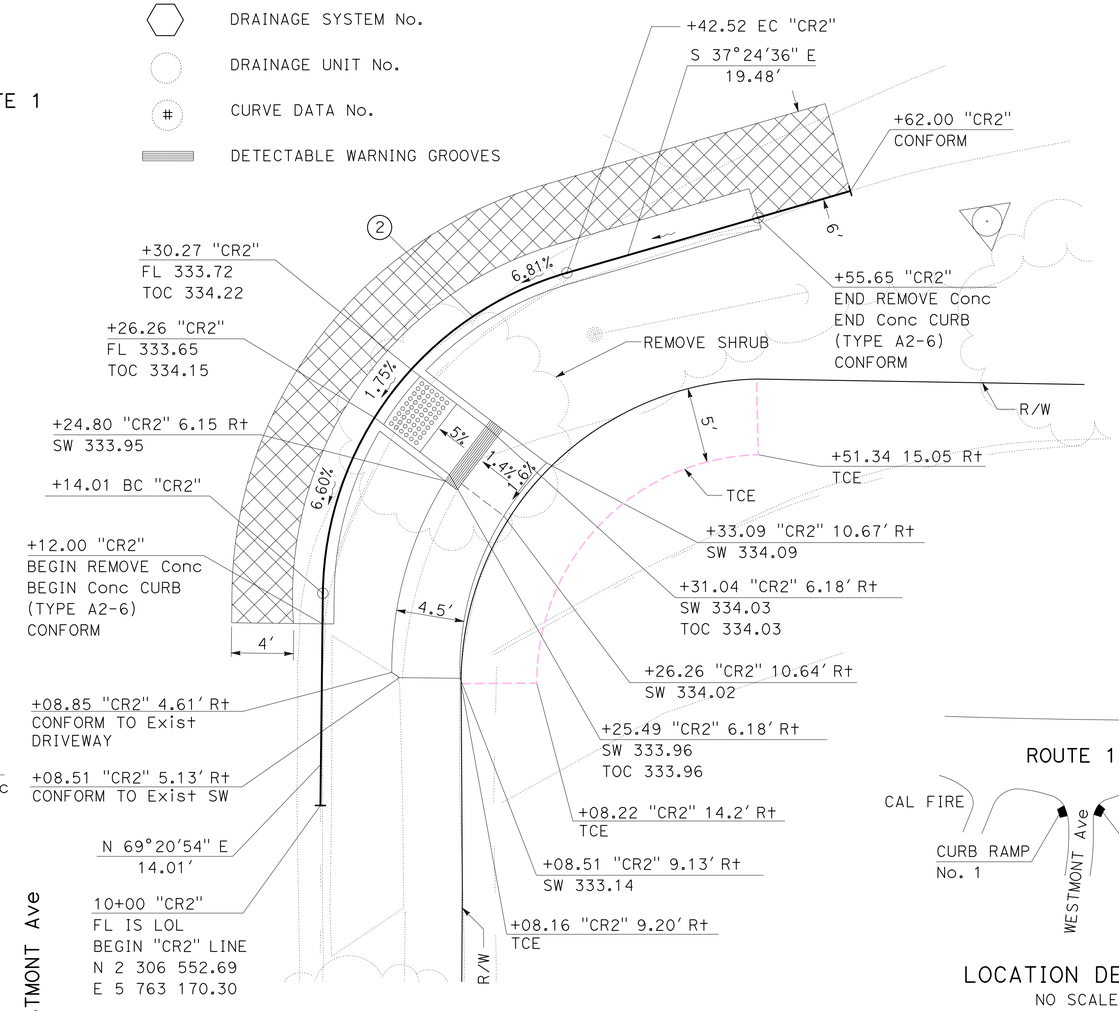
LEGEND

- REMOVE SIDEWALK
- REPLACE AC SURFACING (DEPTH=6"±)
- DETECTABLE WARNING SURFACE
- DRAINAGE SYSTEM No.
- DRAINAGE UNIT No.
- # CURVE DATA No.
- DETECTABLE WARNING GROOVES

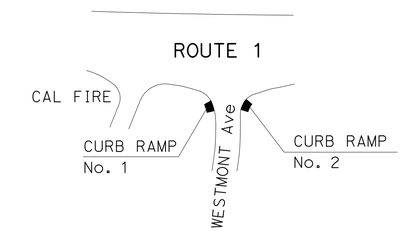
ROUTE 1



CURB RAMP No. 1, PM 18.0
CASE F
ROUTE 1 AND WESTMONT Ave,
SAN LUIS OBISPO (NW CORNER)



CURB RAMP No. 2, PM 18.0
CASE F
ROUTE 1 AND WESTMONT Ave,
SAN LUIS OBISPO (SW CORNER)



LOCATION DETAIL
NO SCALE

CONSTRUCTION DETAILS
C-1

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	3	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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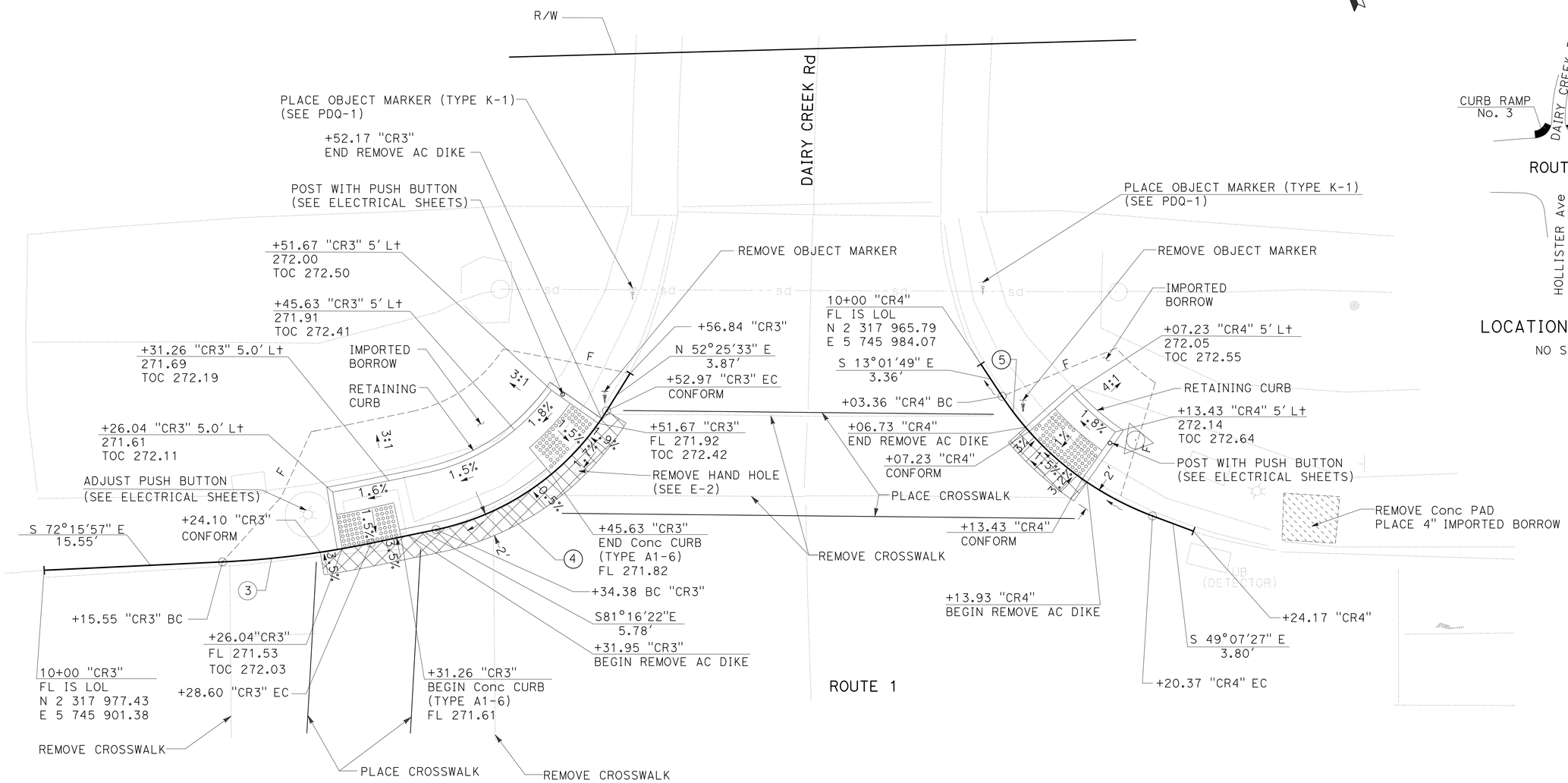
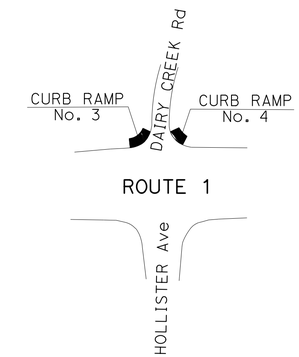
NOTES: 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊛	R	Δ	T	L
3	83.00′	09°00′26"	6.54′	13.05′
4	23.00′	46°18′04"	9.83′	18.59′
5	27.00′	36°05′38"	8.80′	17.01′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 3, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND DAIRY CREEK Rd, SAN LUIS OBISPO
(NE CORNER)

CURB RAMP No. 4, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND DAIRY CREEK Rd, SAN LUIS OBISPO
(SE CORNER)

CONSTRUCTION DETAILS
C-2

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	4	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
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REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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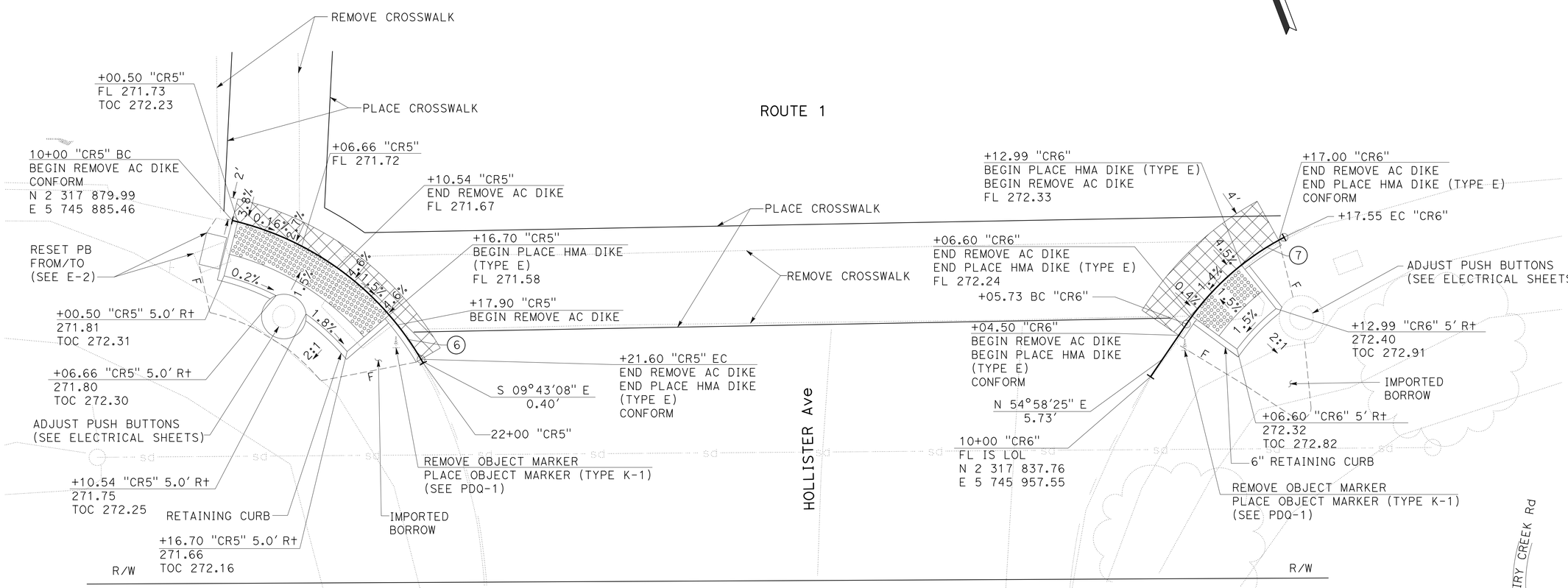
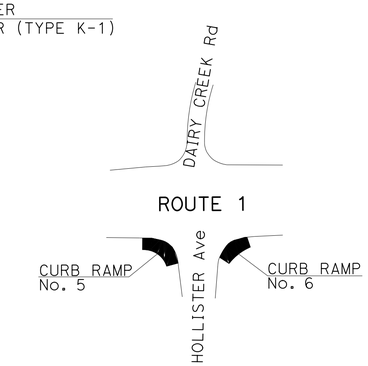
NOTE:

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

CURVE DATA

No. ⊕	R	Δ	T	L
6	26.63′	46°28′05"	11.43′	21.60′
7	24.00′	28°14′15"	6.04′	11.83′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 5, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND HOLLISTER Ave, SAN LUIS OBISPO
(NW CORNER)

CURB RAMP No. 6, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND HOLLISTER Ave, SAN LUIS OBISPO
(SW CORNER)

CONSTRUCTION DETAILS
C-3

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	5	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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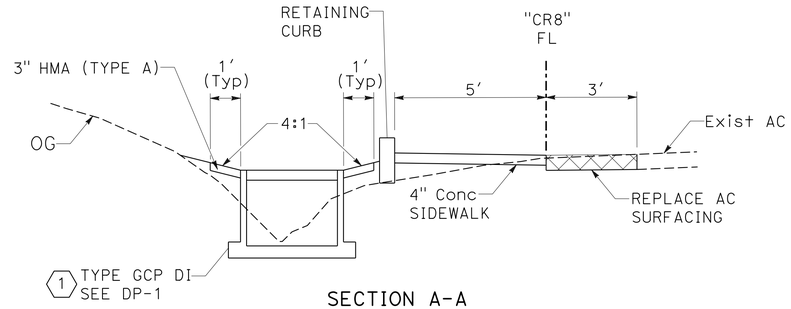
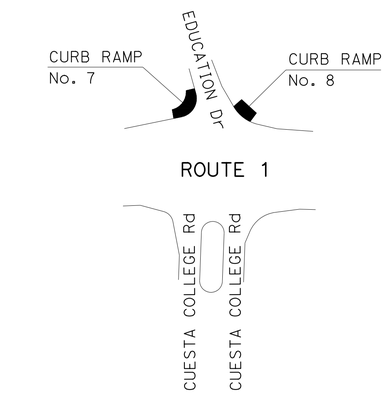
(1) DRAINAGE SYSTEM (SEE DP-1)

CURVE DATA

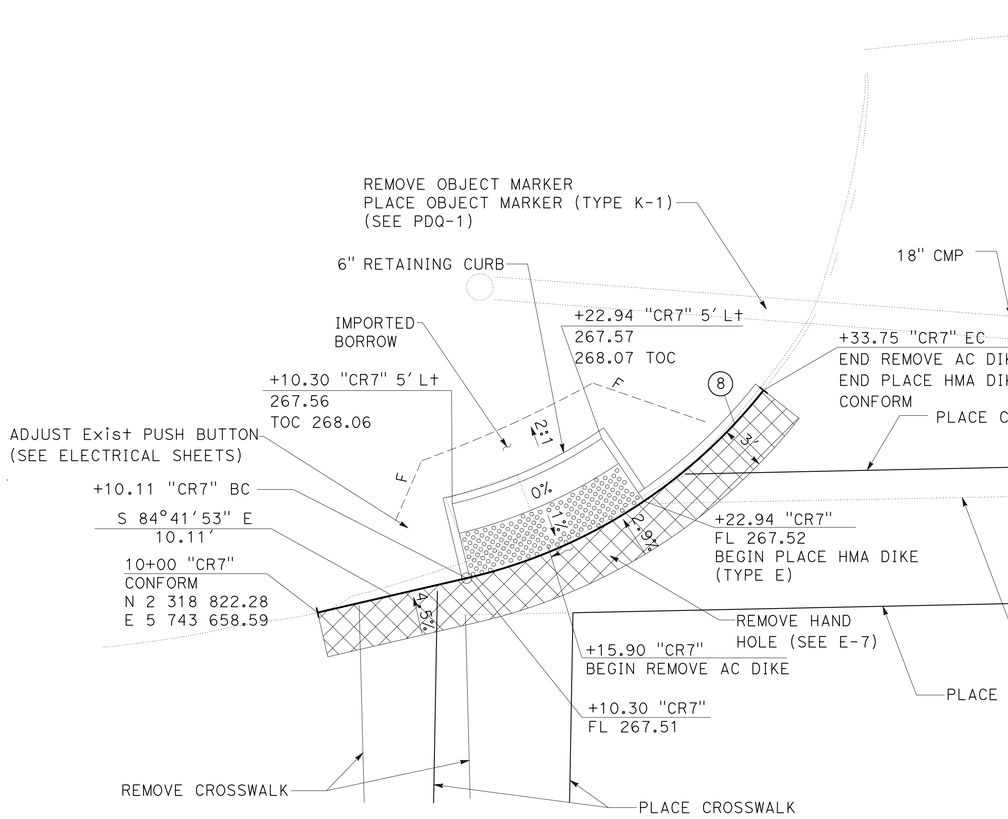
No. ⊕	R	Δ	T	L
8	35.00′	38°42′15"	12.29′	23.64′
9	30.00′	38°55′49"	10.60′	20.38′

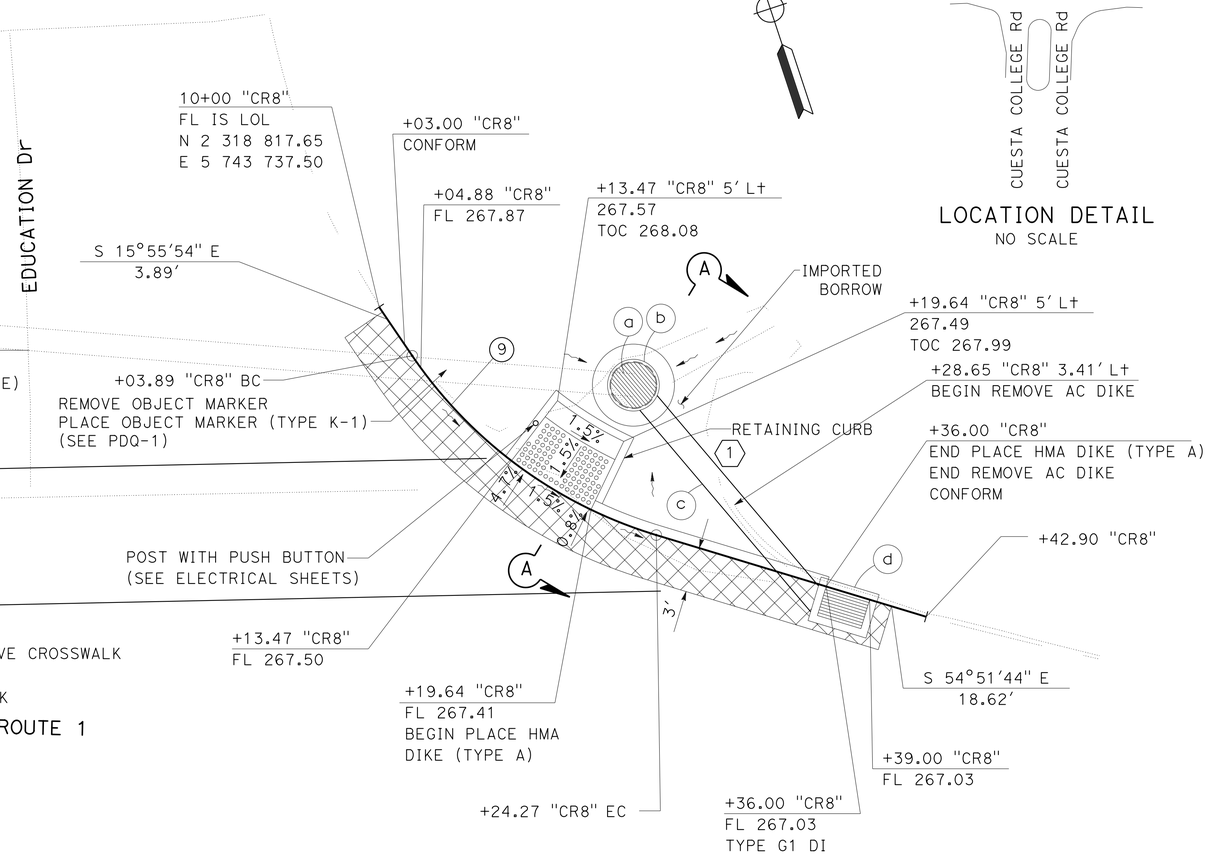


SECTION A-A
NO SCALE



LOCATION DETAIL
NO SCALE





CURB RAMP No. 7, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND EDUCATION Dr, SAN LUIS OBISPO
(NE CORNER)

CURB RAMP No. 8, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND EDUCATION Dr, SAN LUIS OBISPO
(SE CORNER)

CONSTRUCTION DETAILS
C-4

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	6	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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NOTE:

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

CURVE DATA

No. ⊛	R	Δ	T	L
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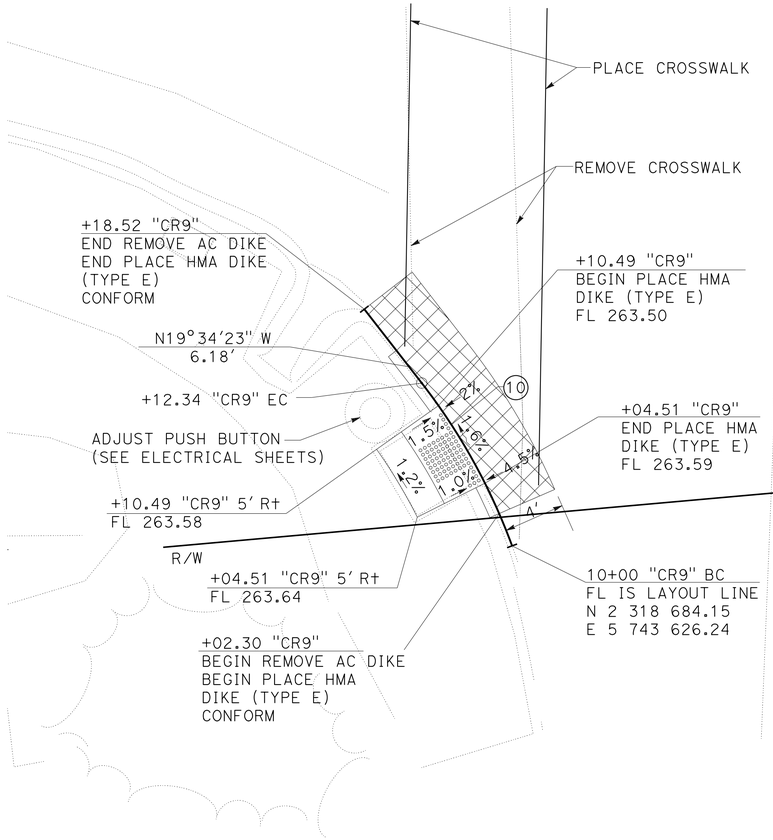
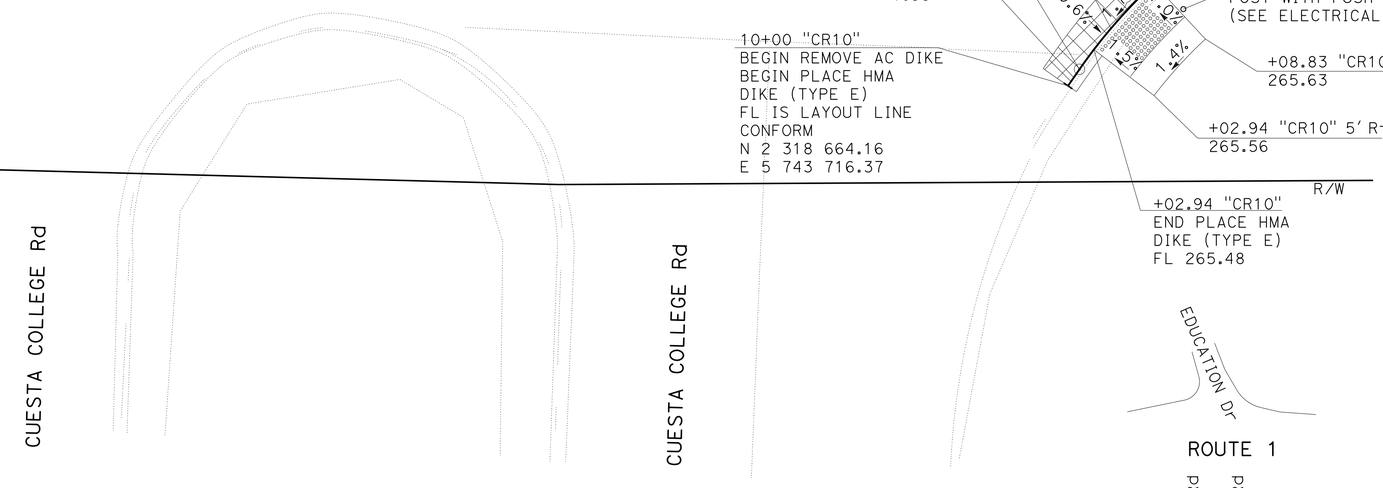
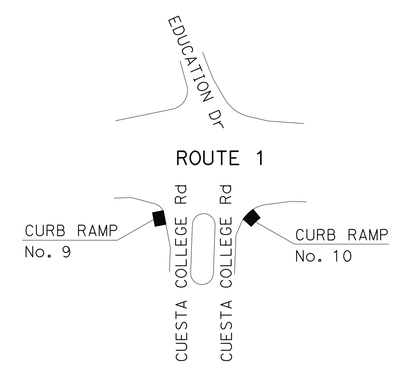
11	35.00′	12°51′47"	3.95′	7.86′







LOCATION DETAIL
NO SCALE

CURB RAMP No. 9, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND CUESTA COLLEGE Rd, SAN LUIS OBISPO
(NW CORNER)

CURB RAMP No. 10, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND CUESTA COLLEGE Rd, SAN LUIS OBISPO
(SW CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	7	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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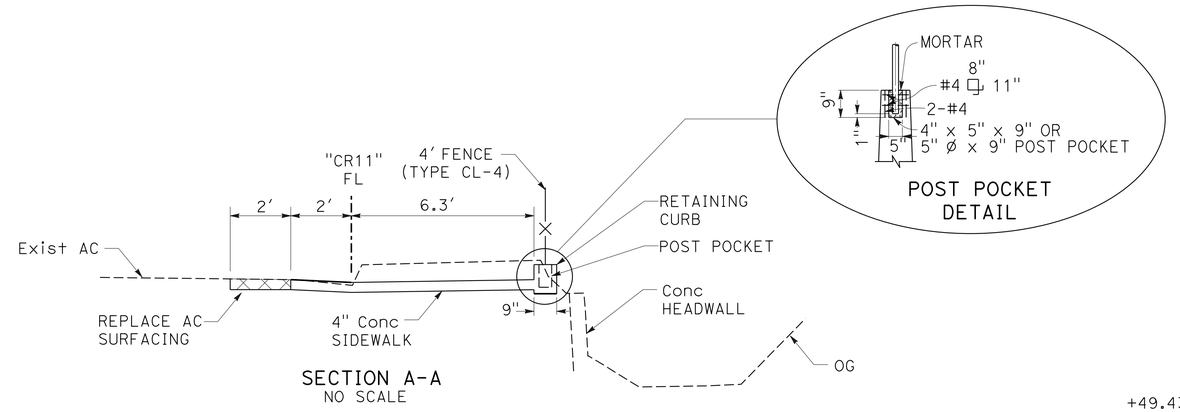
NOTE:

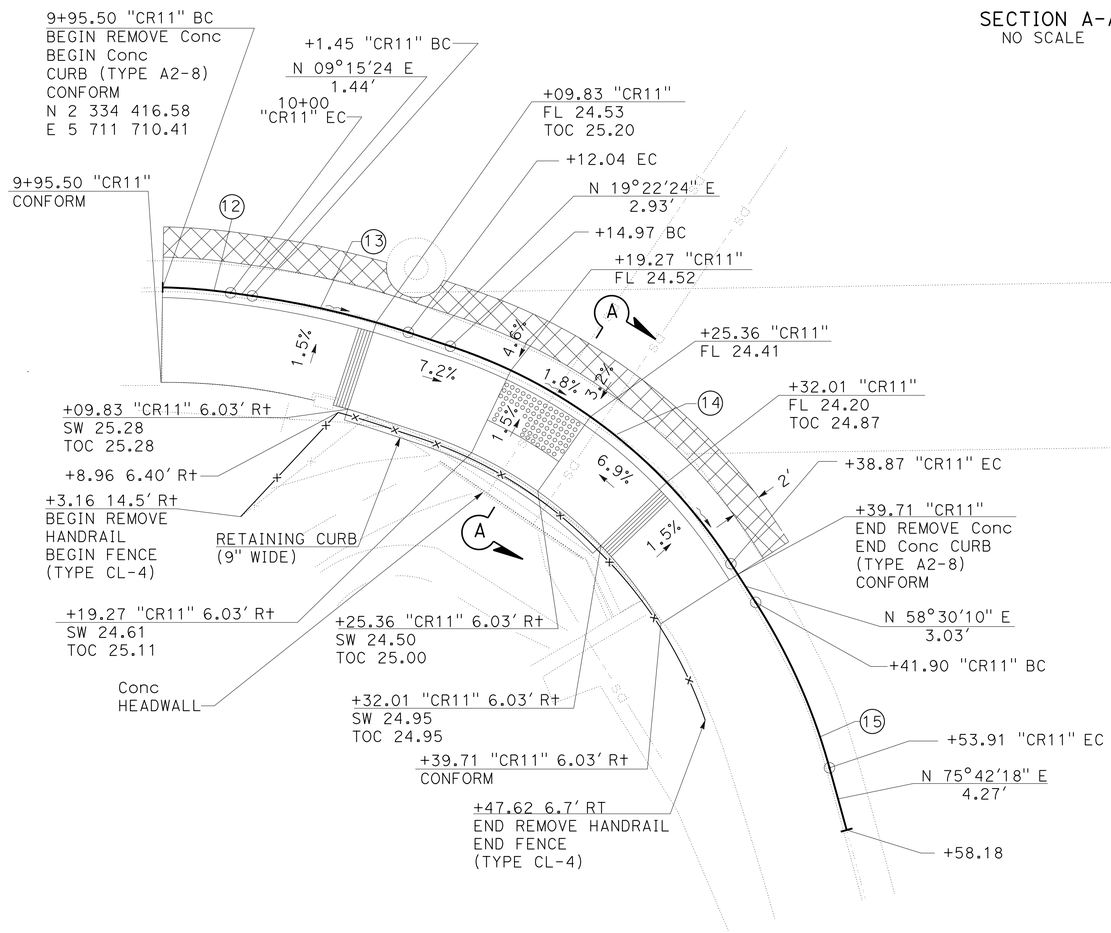
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

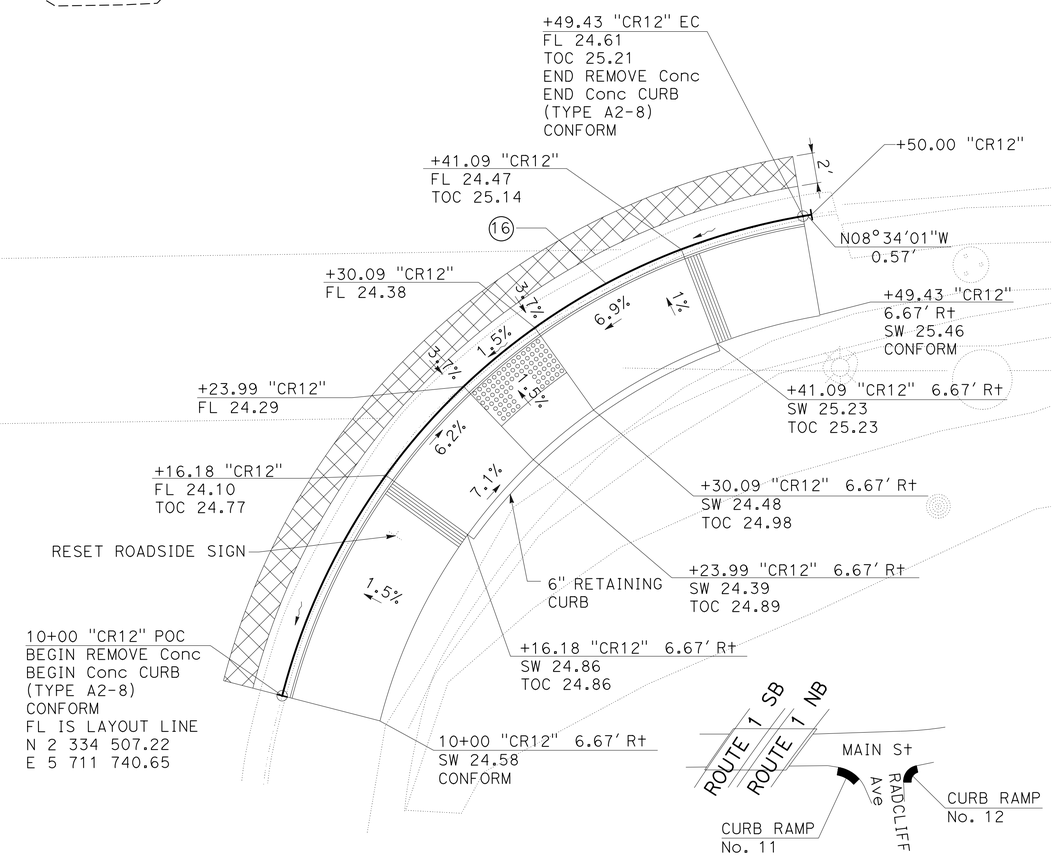
No. ⊕	R	Δ	T	L
12	36.17′	7°08′07"	2.26′	4.50′
13	60′	10°07′00"	5.31′	10.59′
14	35′	39°07′45"	12.44′	23.90′
15	40′	17°12′08"	6.05′	12.01′
16	43′	65°51′41"	27.85′	49.43′



SECTION A-A
NO SCALE



CURB RAMP No. 11, PM 29.6
CASE C
RADCLIFF AND MAIN St, MORRO BAY
(SW CORNER)



CURB RAMP No. 12, PM 29.6
CASE C
RADCLIFF AND MAIN St, MORRO BAY
(SE CORNER)

LOCATION DETAIL
NO SCALE

CONSTRUCTION DETAILS
C-6

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	8	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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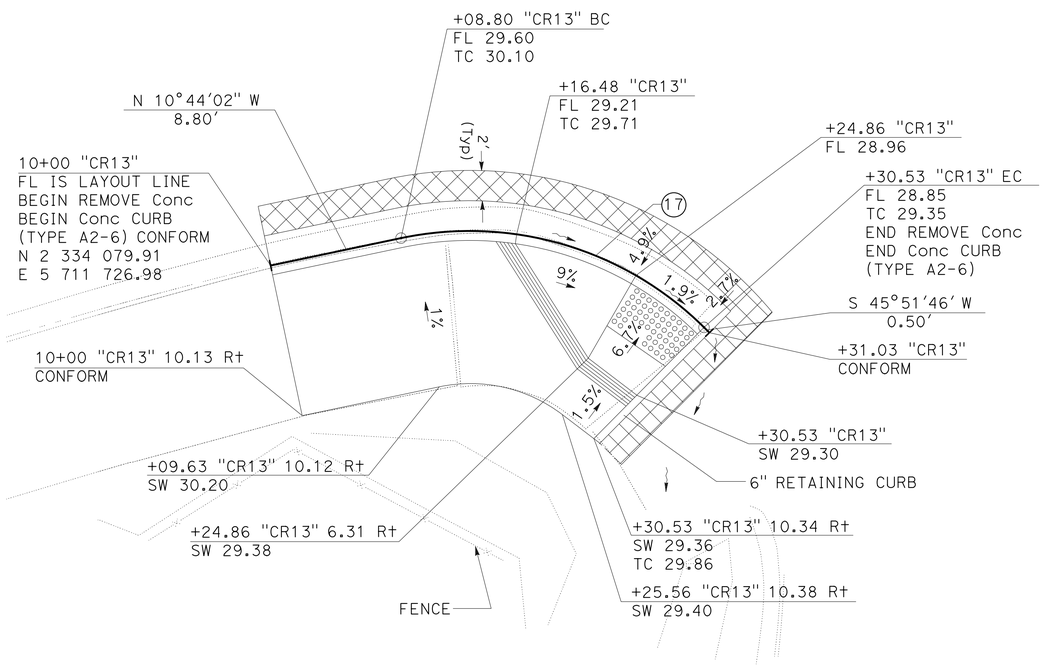
NOTE:

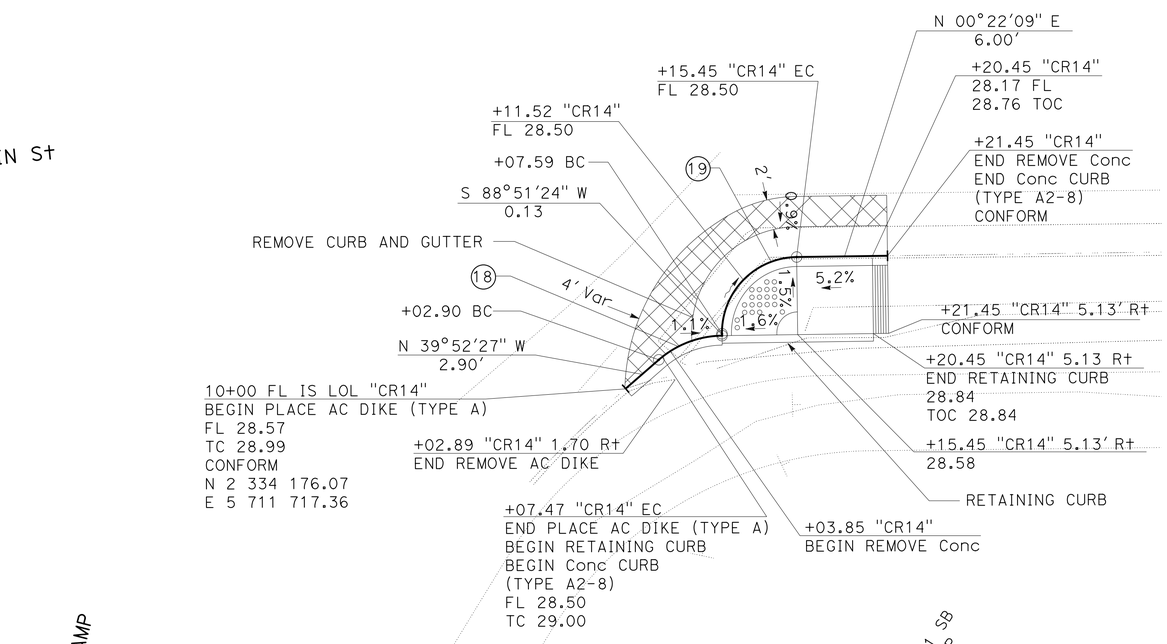
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

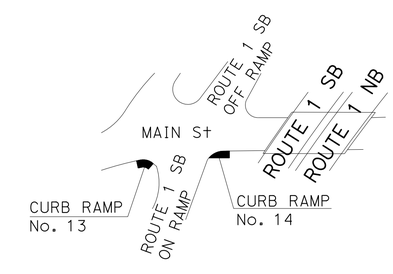
CURVE DATA

No. ⊕	R	Δ	T	L
17	22.00′	56°35′48″	11.84′	21.73′
18	6.50′	40°14′36″	2.38′	4.57′
19	5.00′	90°00′00″	5.00′	7.85′



CURB RAMP No. 13, PM 29.5
CASE G
ROUTE 1 SB ON RAMP AND MAIN St, MORRO BAY
(SW CORNER)





LOCATION DETAIL
NO SCALE

CURB RAMP No. 14, PM 29.5
CASE CM
ROUTE 1 SB ON RAMP AND MAIN St, MORRO BAY
(SE CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	9	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

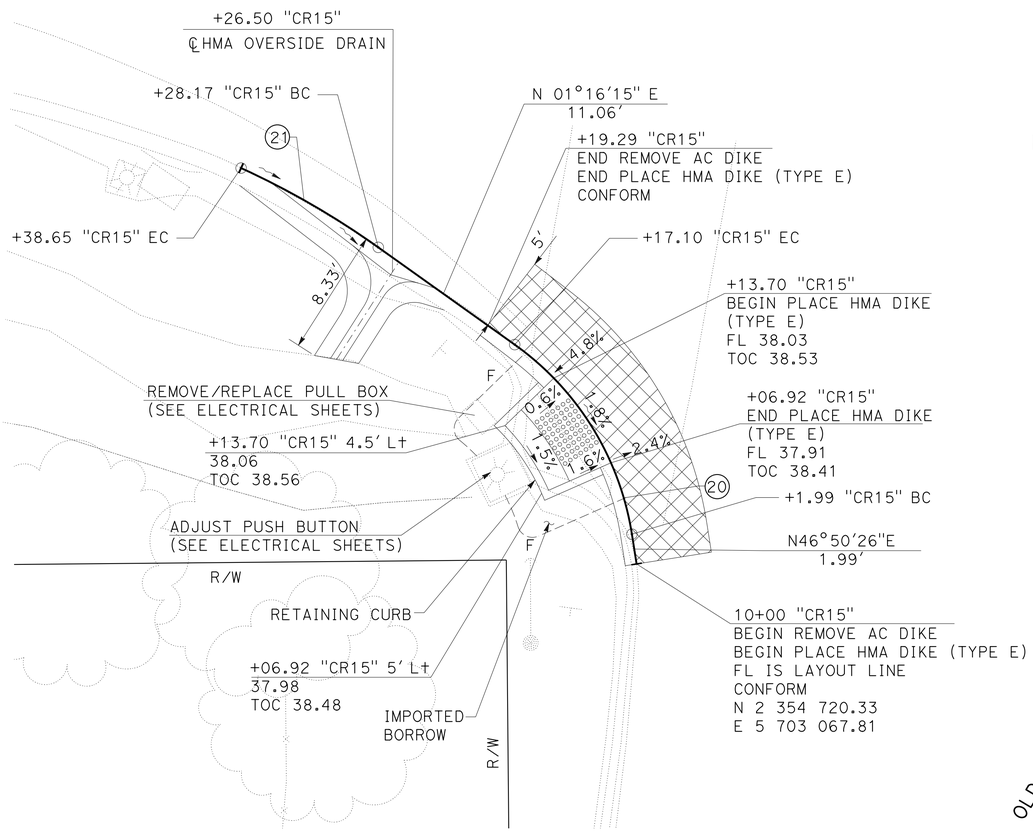
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

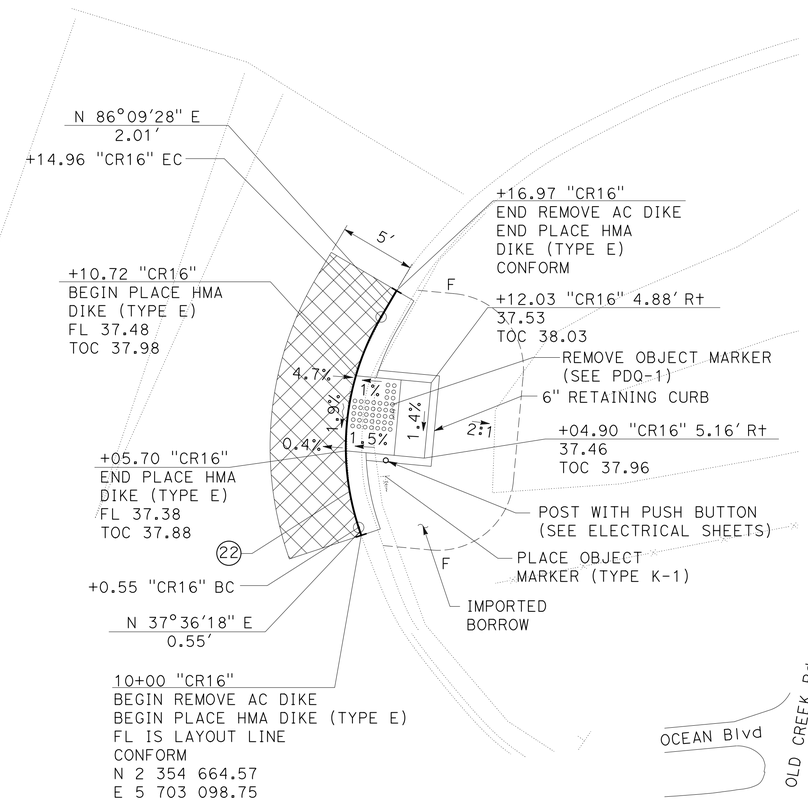
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

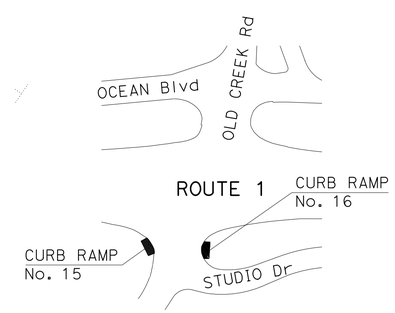
CURVE DATA

No. ⊛	R	Δ	T	L
20	19.00′	45°34′11"	7.98′	15.11′
21	55.00′	10°55′06"	5.26′	10.48′
22	17.00′	48°33′11"	7.67′	14.41′



ROUTE 1





LOCATION DETAIL
NO SCALE

CURB RAMP No. 15, PM 33.8
PEDESTRIAN PAD
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(NW CORNER)

CURB RAMP No. 16, PM 33.8
PEDESTRIAN PAD
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(SW CORNER)

CONSTRUCTION DETAILS

SCALE 1"-5′

C-8

REVISED BY | DATE REVISED
WAFAA SIQUEIROS | MICHAEL DAY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | SCOTT SHAVER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

LAST REVISION 12-16-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	10	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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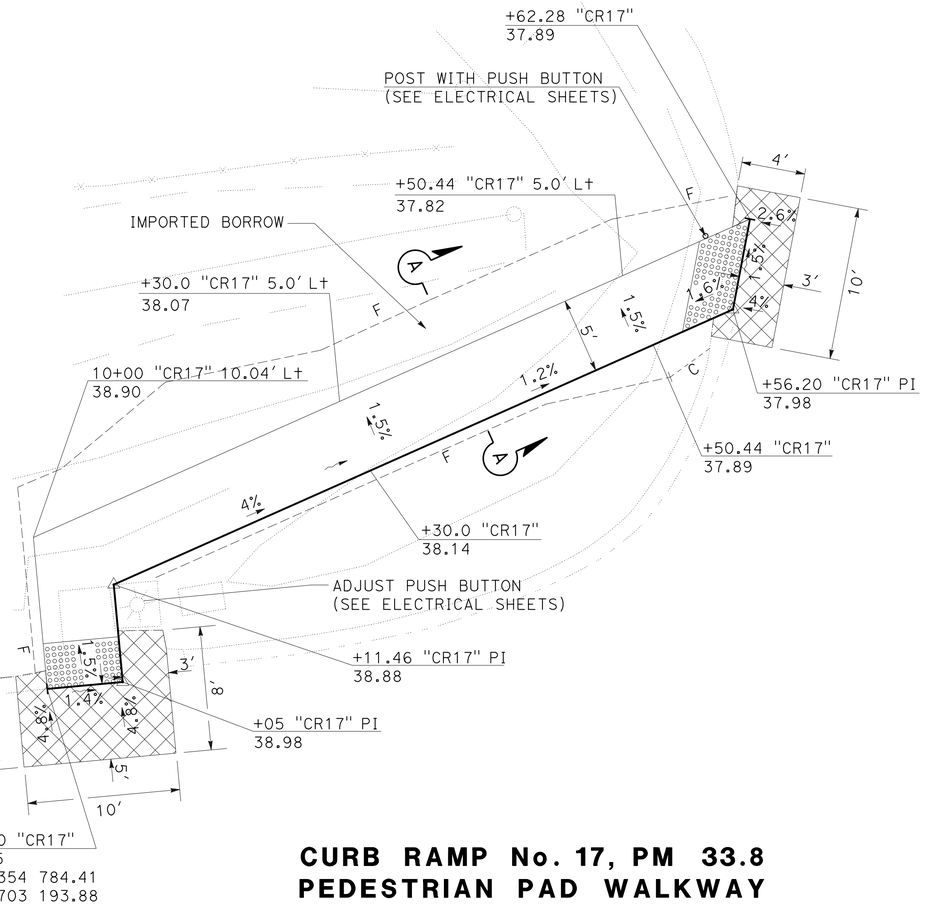
NOTE:

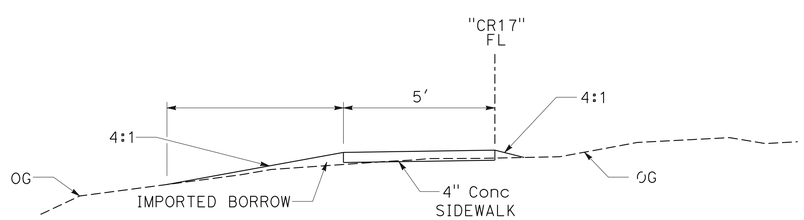
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⑬	R	Δ	T	L
23	20.00′	47°22′38″	8.77′	16.54′



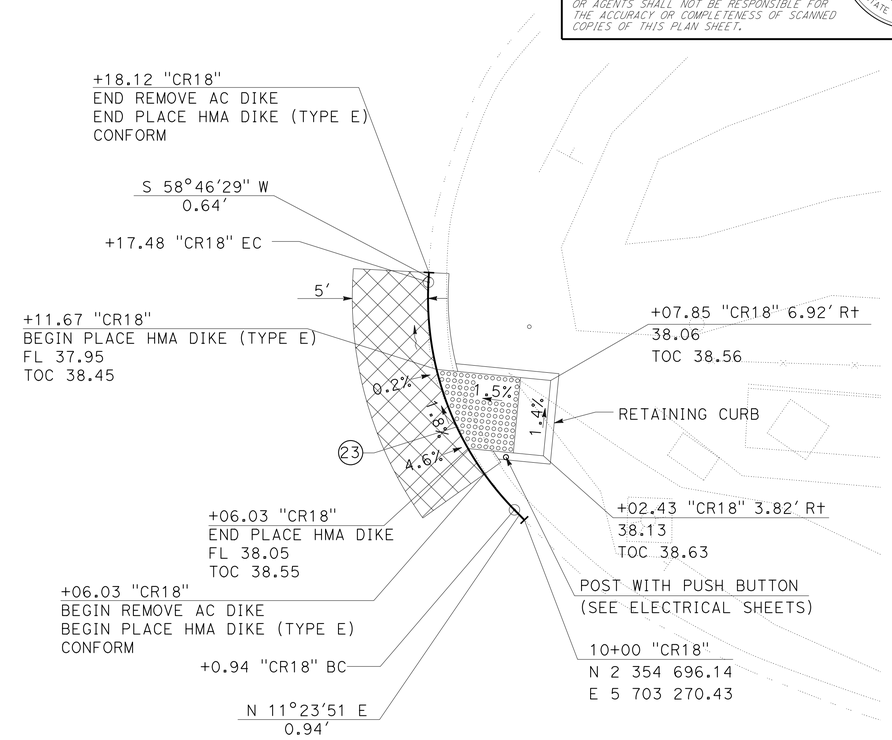
CURB RAMP No. 17, PM 33.8
PEDESTRIAN PAD WALKWAY
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(NE CORNER)



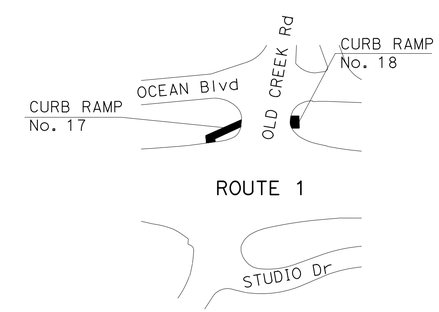
SECTION A-A

OLD CREEK Rd

ROUTE 1



CURB RAMP No. 18, PM 33.8
PEDESTRIAN PAD
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(SE CORNER)



LOCATION DETAIL
NO SCALE

CONSTRUCTION DETAILS

SCALE 1"=5′

C-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans®

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	11	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

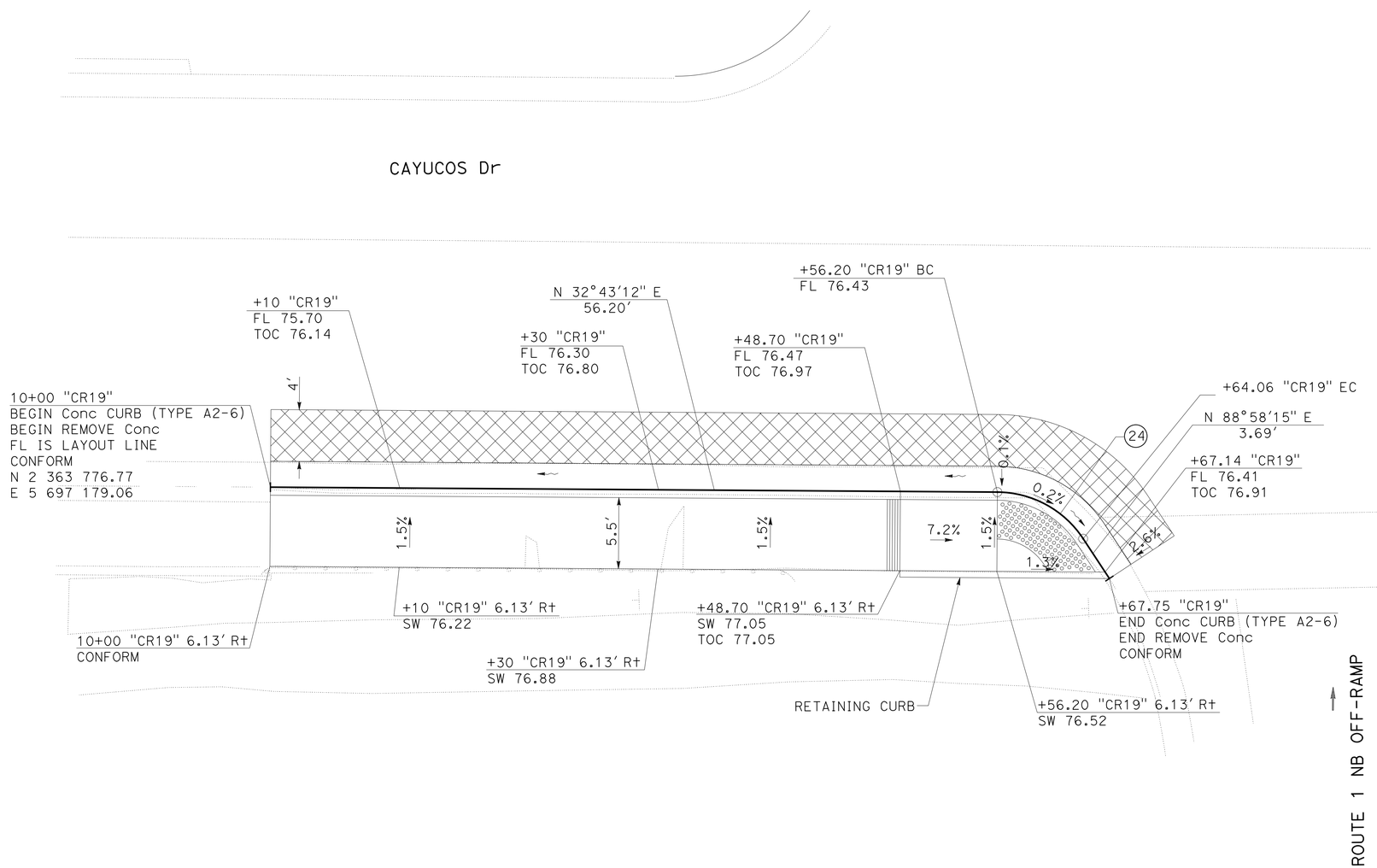
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

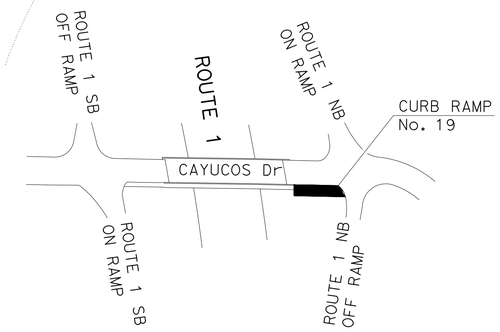
NOTE:

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

CURVE DATA

No. ⊕	R	Δ	T	L
24	8.00′	56°15′03"	4.28′	7.85′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 19, PM 35.9
CASE CM
ROUTE 101 NB OFF-RAMP AND CAYUCOS Dr, CAYUCOS
(SW CORNER)

CONSTRUCTION DETAILS
C-10

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 DATE PLOTTED => 24-MAR-2014 TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	12	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

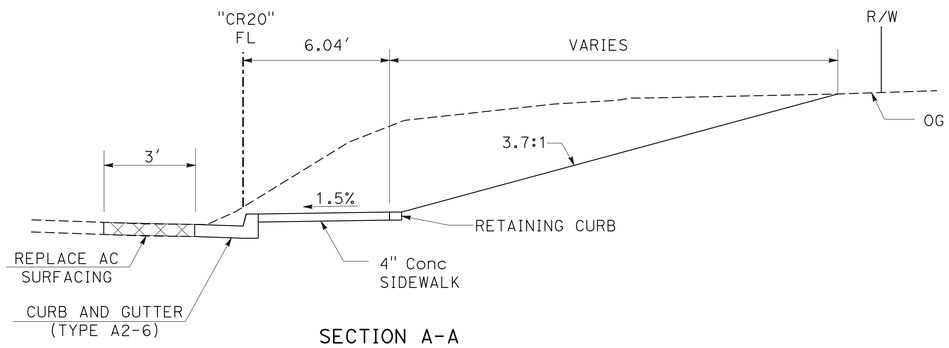
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

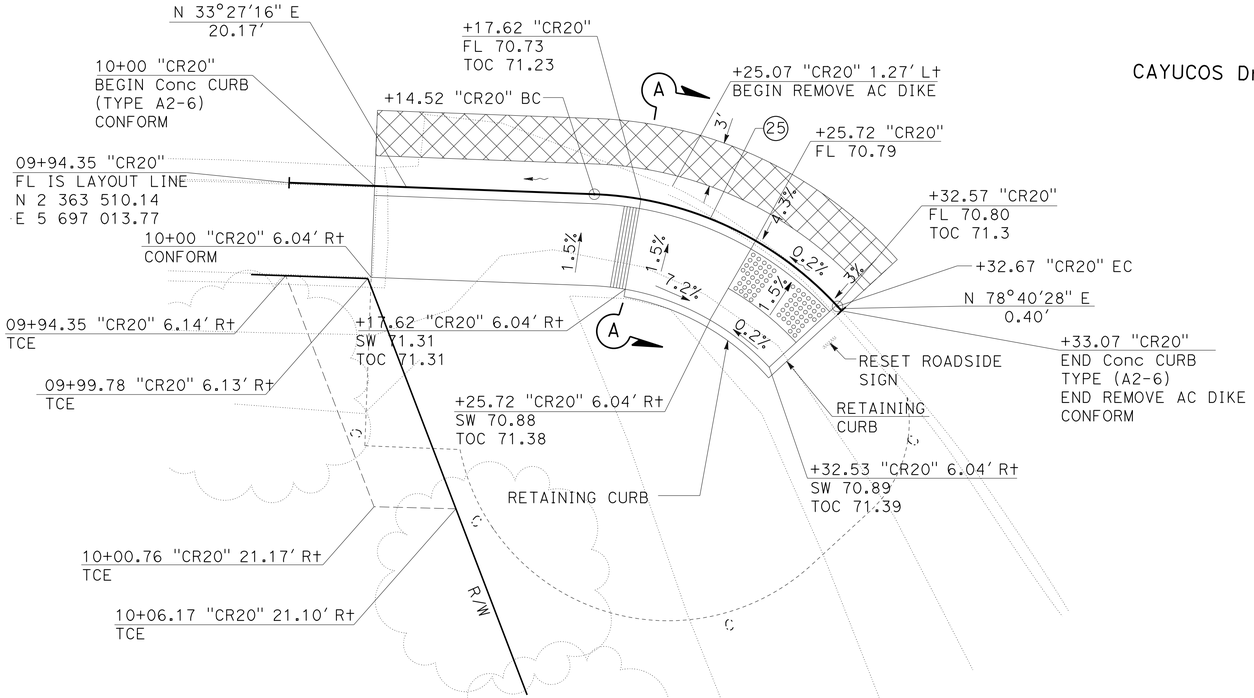
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

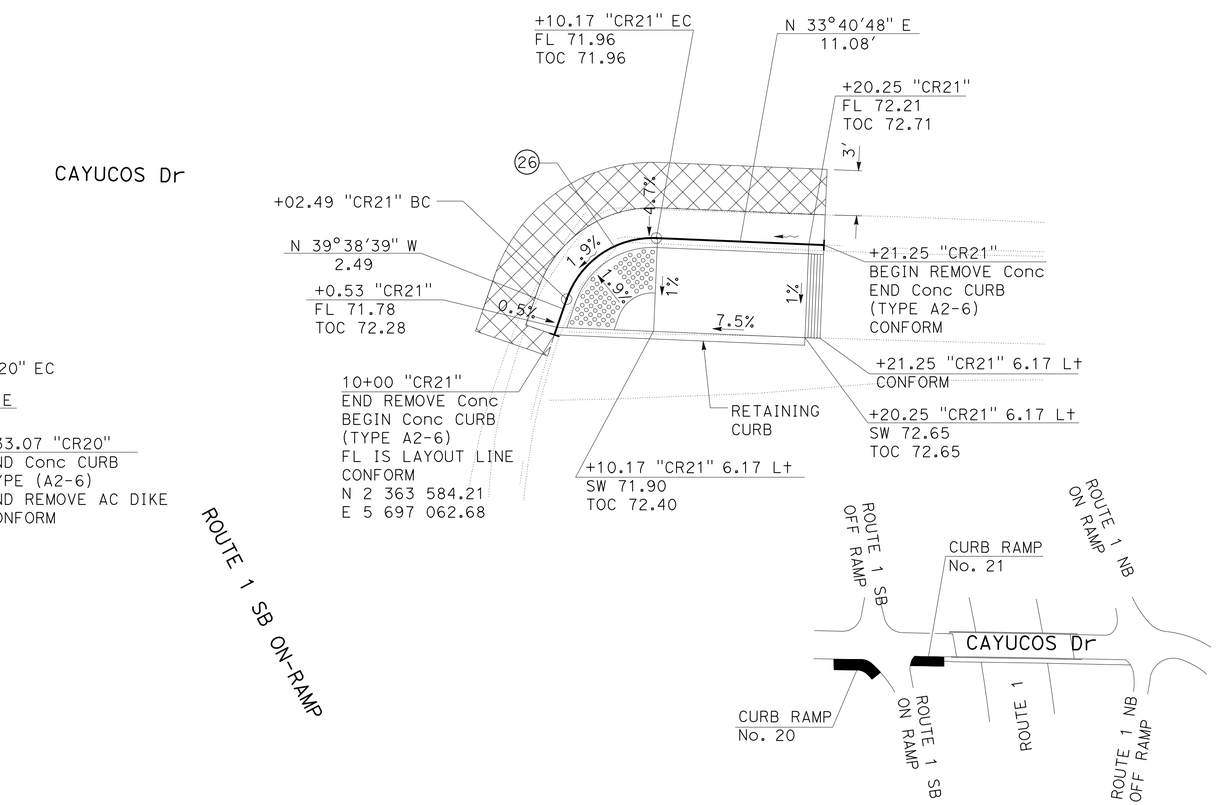
No. ⊛	R	Δ	T	L
25	23.00′	45°13′13"	9.58′	18.15′
26	6.00′	73°19′27"	4.47′	7.68′



SECTION A-A



CURB RAMP No. 20, PM 35.9
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND CAYUCOS Dr, CAYUCOS
(SW CORNER)



LOCATION DETAIL
NO SCALE

CURB RAMP No. 21, PM 35.9
CASE CM
ROUTE 101 SB ON-RAMP AND CAYUCOS Dr, CAYUCOS
(SE CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	13	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

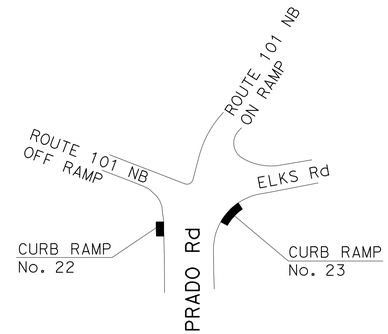
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

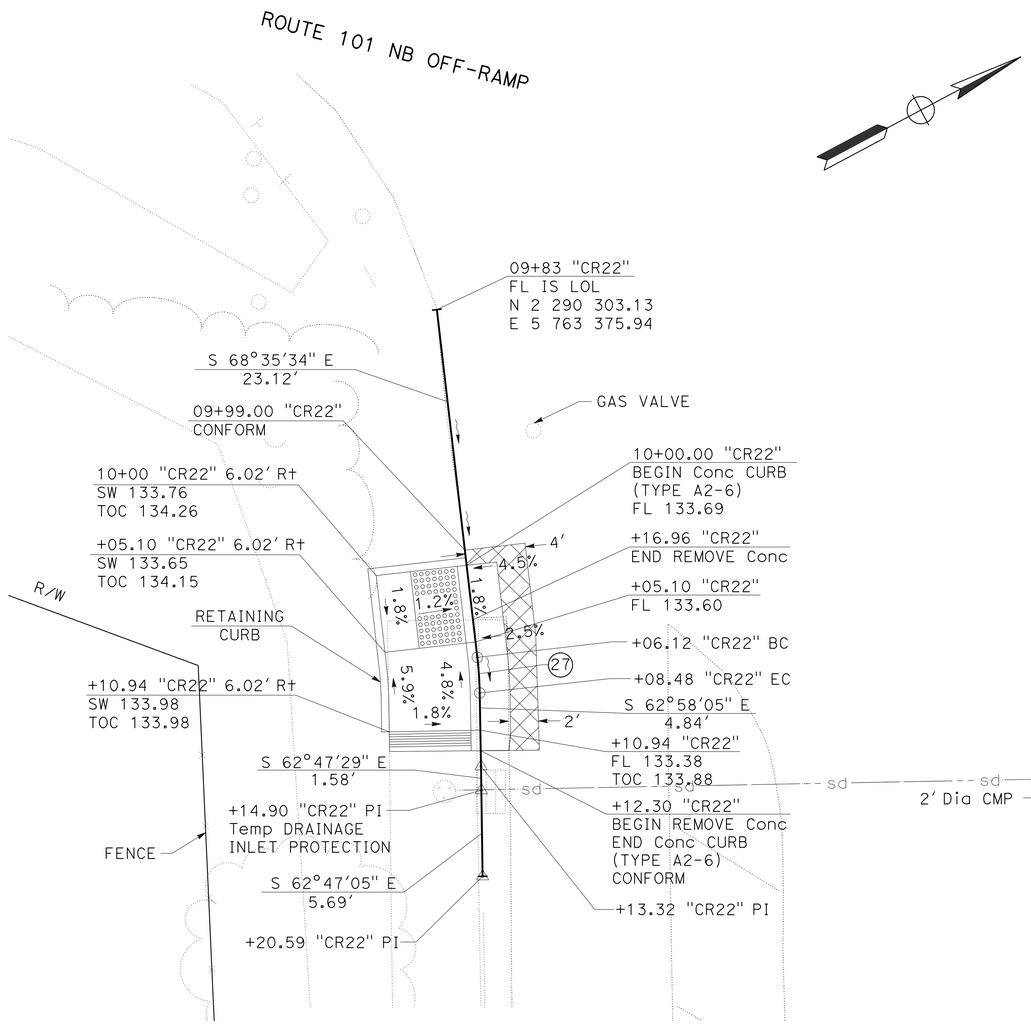
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

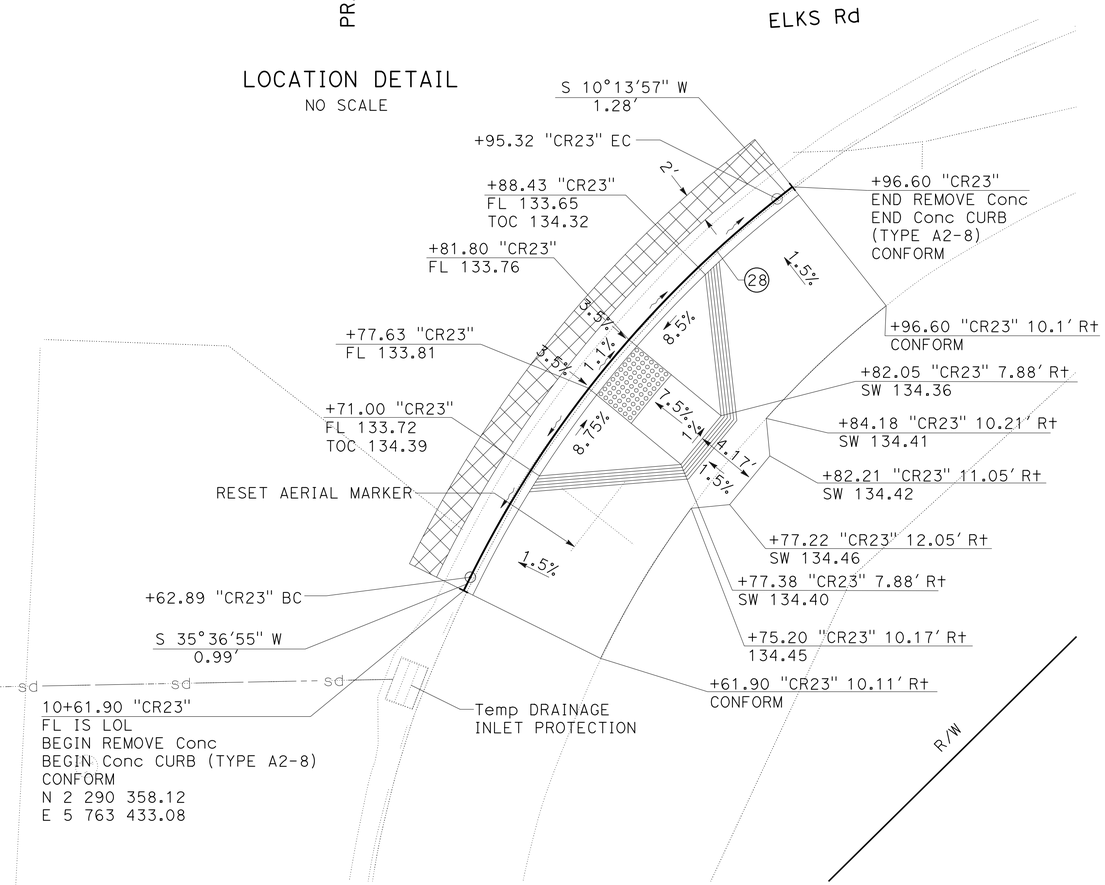
CURVE DATA

No. ⊕	R	Δ	T	L
27	24.00′	05°37′28″	1.18′	2.36′
28	73.20′	25°22′58″	16.48′	32.43′



LOCATION DETAIL
NO SCALE





CURB RAMP No. 22, PM 26.7
CASE C MODIFIED
ROUTE 101 OFF-RAMP AND PRADO Rd, SAN LUIS OBISPO
(SE CORNER)

CURB RAMP No. 23, PM 26.7
CASE D
ELKS Rd AND PRADO Rd, SAN LUIS OBISPO
(NE CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	14	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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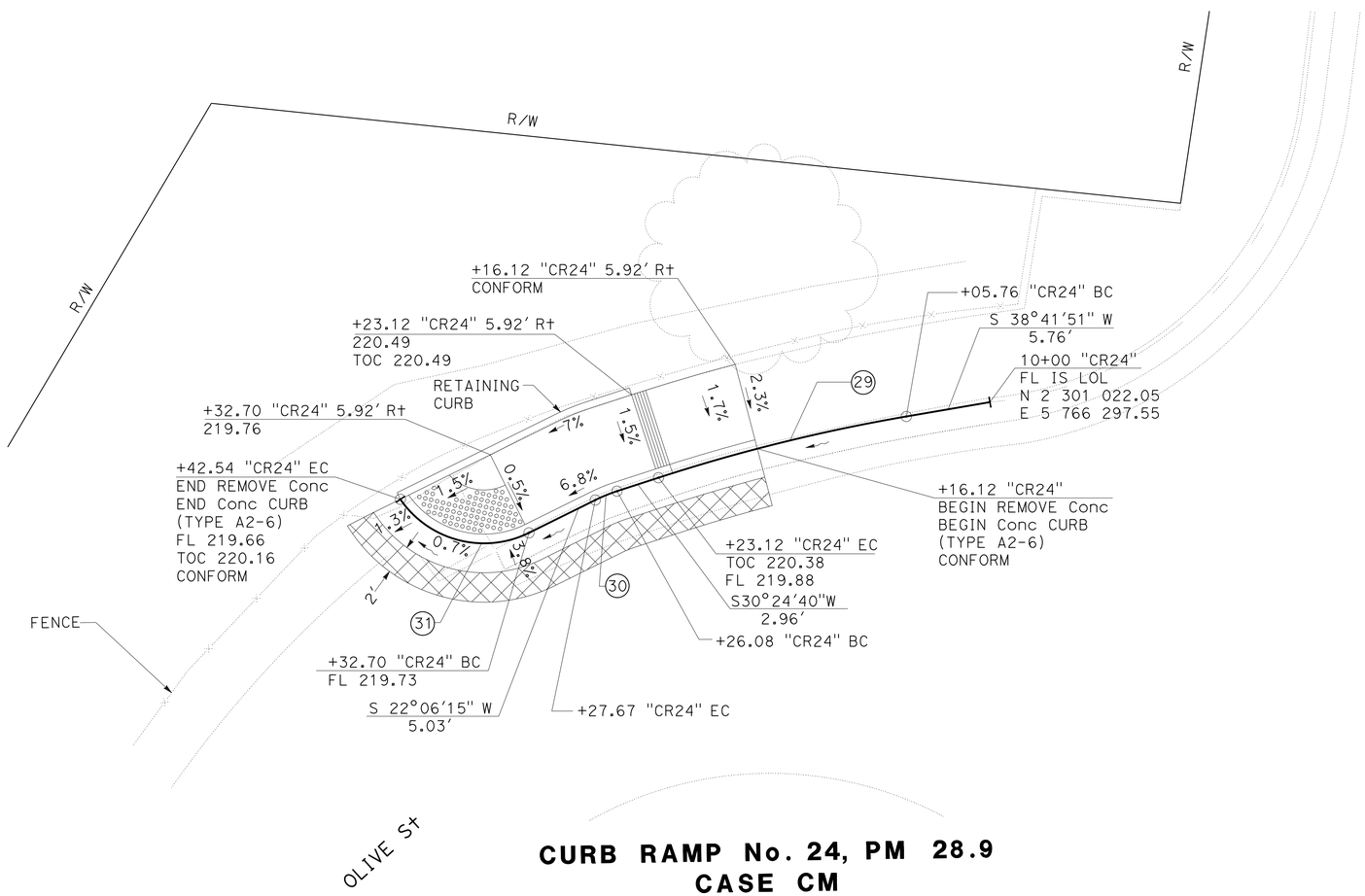
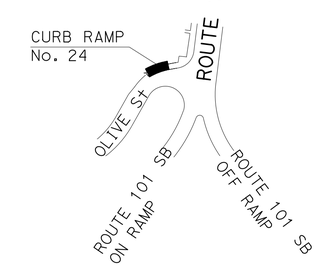
NOTES: 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊛	R	Δ	T	L
29	120.00′	08°17′11"	8.69′	17.35′
30	11.00′	08°18′25"	0.80′	1.59′
31	6.89′	81°52′21"	5.97′	9.84′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 24, PM 28.9
CASE CM
ROUTE 101 AND OLIVE St, SAN LUIS OBISPO
(SW CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	15	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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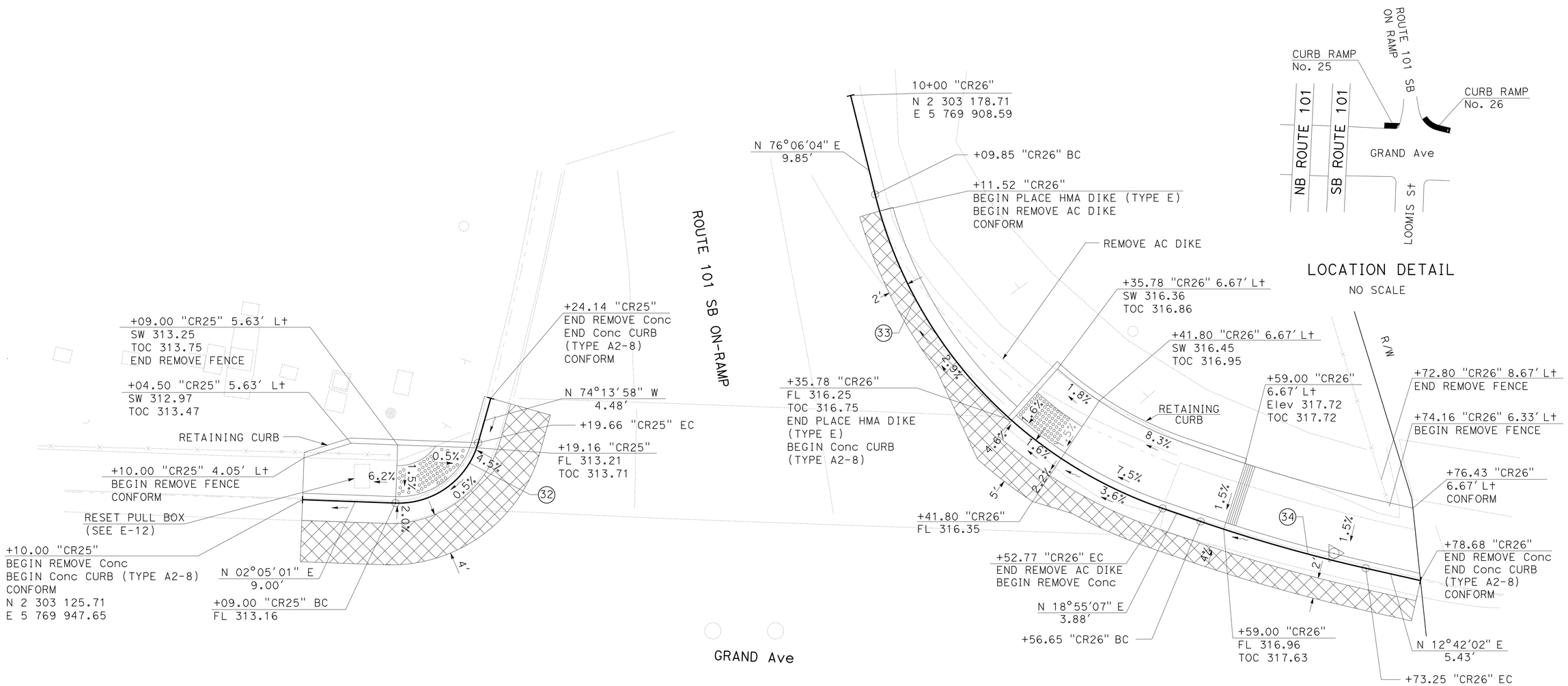
NOTE:

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

CURVE DATA

No. ⊛	R	Δ	T	L
32	8.00′	76°18′59"	6.29′	10.66′
33	43.00′	57°10′56"	23.44′	42.91′
34	153.00′	06°13′05"	8.31′	16.60′



LOCATION DETAIL

NO SCALE

CURB RAMP No. 25, PM 29.7
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND GRAND Ave, SAN LUIS OBISPO
(SE CORNER)

CURB RAMP No. 26, PM 29.7
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND GRAND Ave, SAN LUIS OBISPO
(SW CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	16	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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NOTE:

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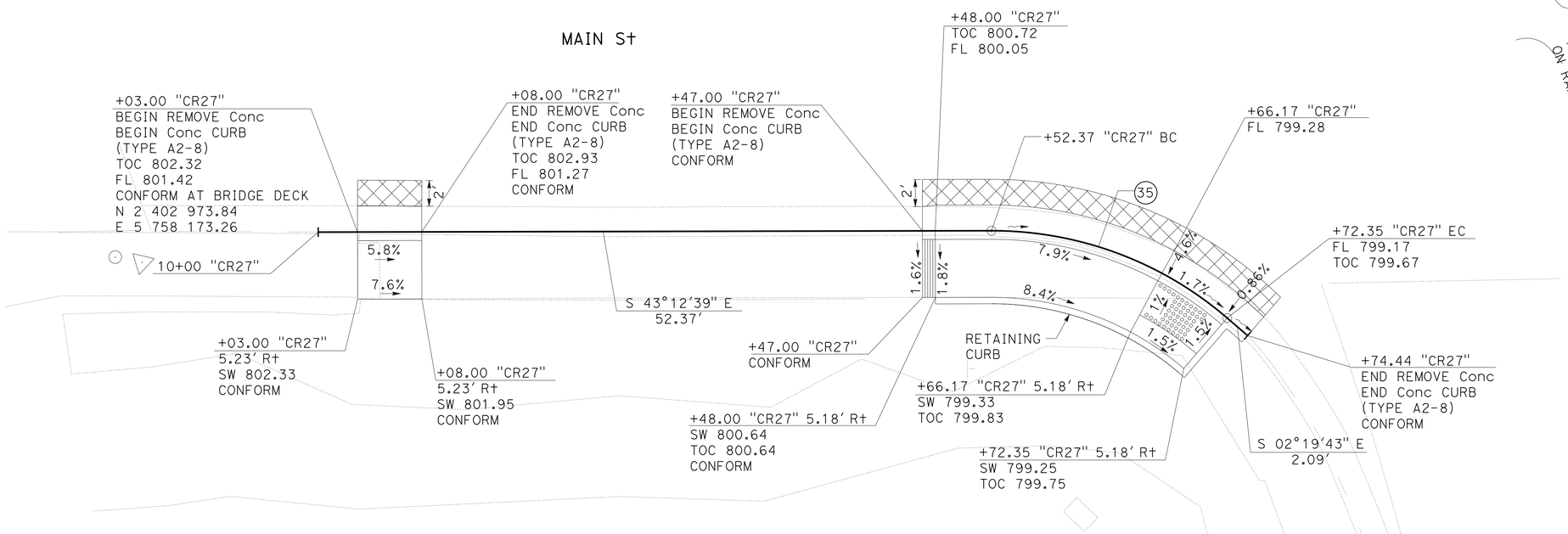
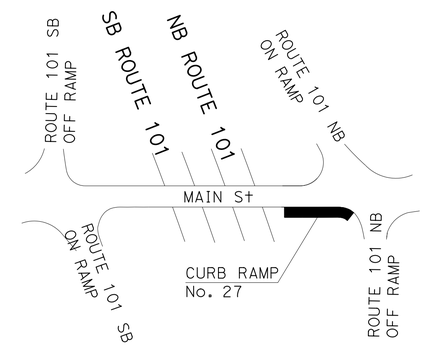
CURVE DATA

No. ⊛	R	Δ	T	L
35	28.00′	40°52′56″	10.44′	19.98′





LOCATION DETAIL
NO SCALE

NB 101 OFF-RAMP

CURB RAMP No. 27, PM 52.4
CASE C MODIFIED
ROUTE 101 NB OFF-RAMP AND MAIN St, TEMPLETON
(SW CORNER)

CONSTRUCTION DETAILS

SCALE 1′=5′

C-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	17	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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NOTE:

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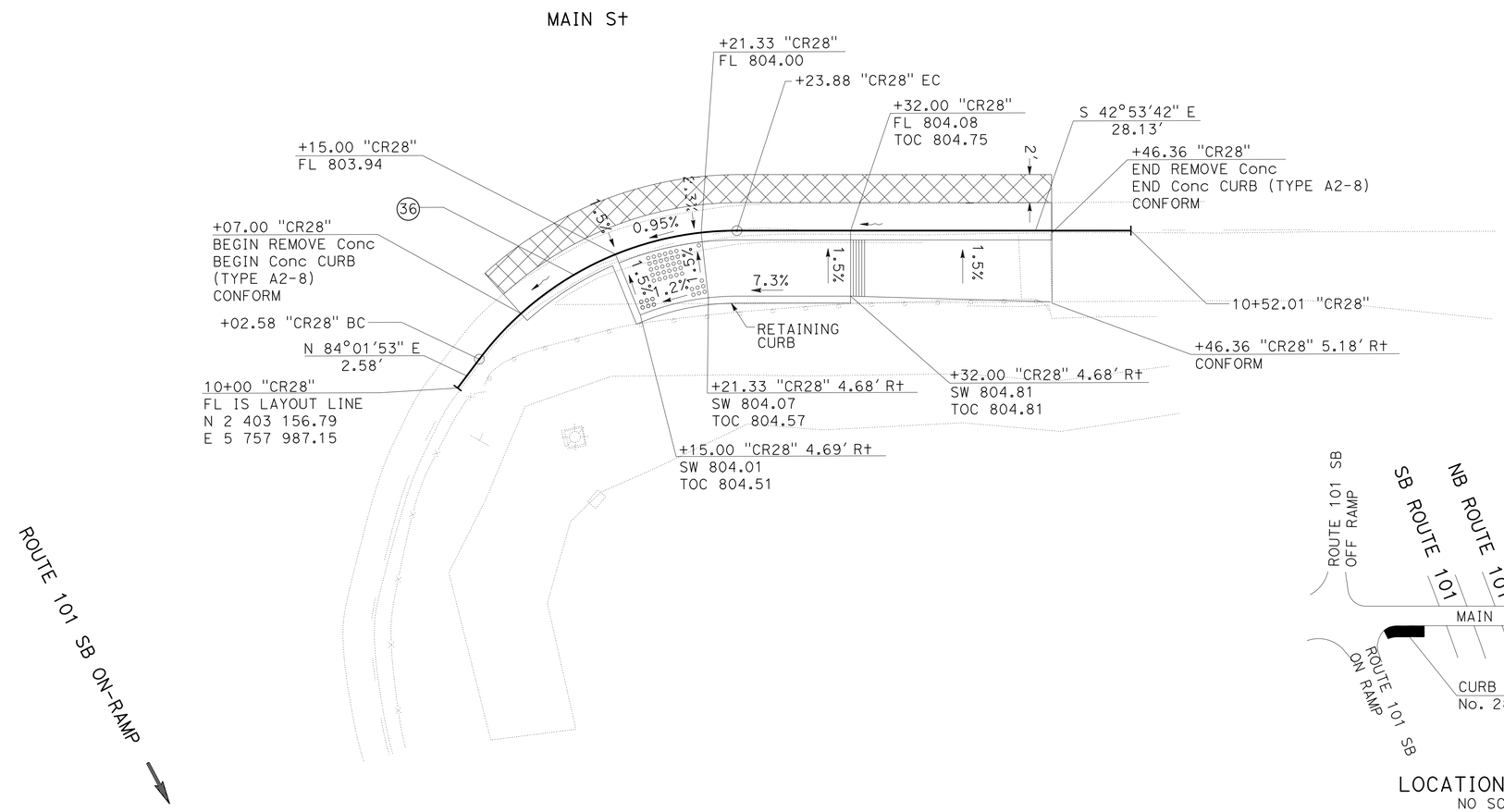
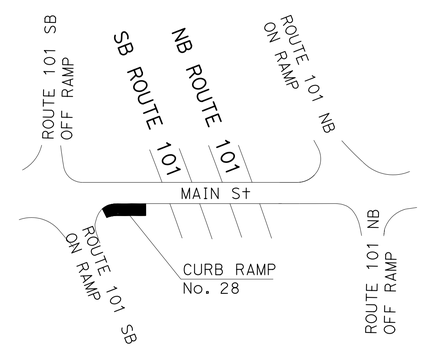
CURVE DATA

No. ⊛	R	Δ	T	L
36	23.00′	53°04′24″	11.49′	21.31′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 28, PM 52.4
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND MAIN St, TEMPLETON
(SE CORNER)

CONSTRUCTION DETAILS

SCALE 1′=5′

C-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	18	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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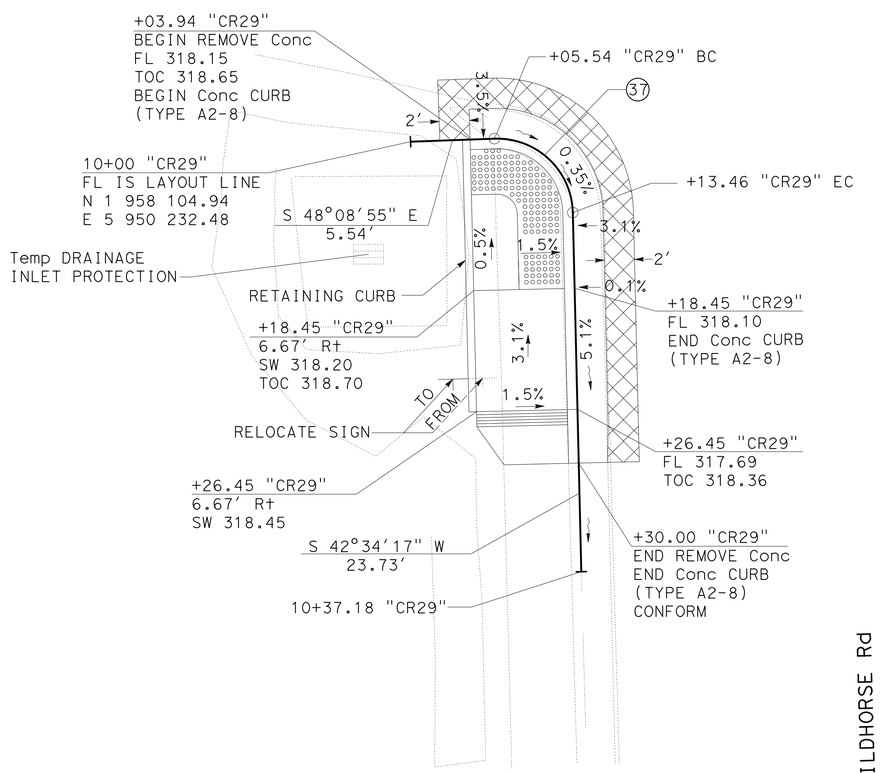
NOTE:

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

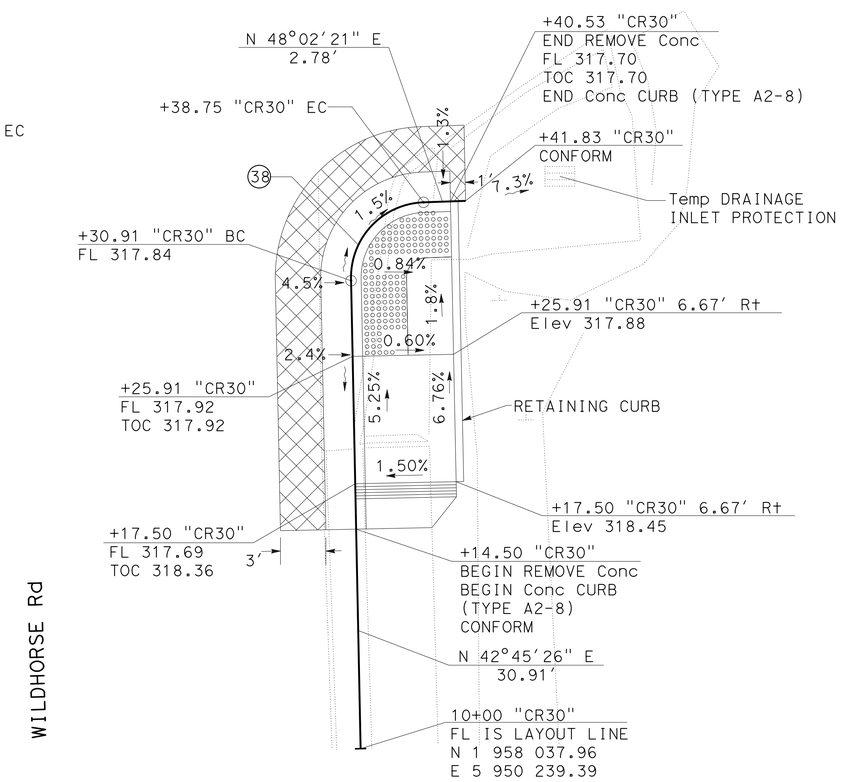
CURVE DATA

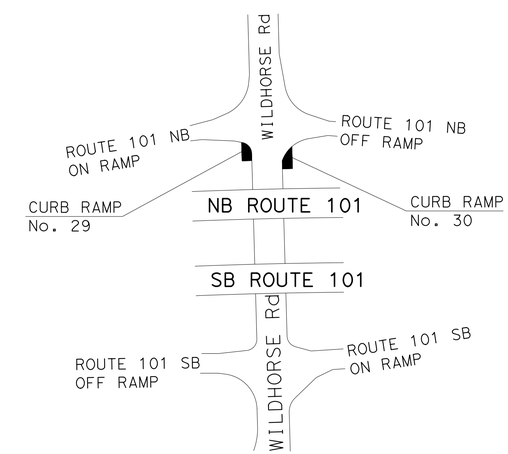
No. ⊕	R	Δ	T	L
37	5.00′	90°43′11"	5.06′	7.92′
38	4.96′	90°32′51"	5.01′	7.84′

ROUTE 101 NB ON-RAMP



ROUTE 101 NB OFF-RAMP





LOCATION DETAIL
NO SCALE

CURB RAMP No. 29, PM 37.1
CASE CM
ROUTE 101 NB ON-RAMP AND WILDHORSE Rd, KING CITY
(NW CORNER)

CURB RAMP No. 30, PM 37.1
CASE CM
ROUTE 101 NB OFF-RAMP AND WILDHORSE Rd, KING CITY
(SW CORNER)

CONSTRUCTION DETAILS
C-17

SCALE: 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	19	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

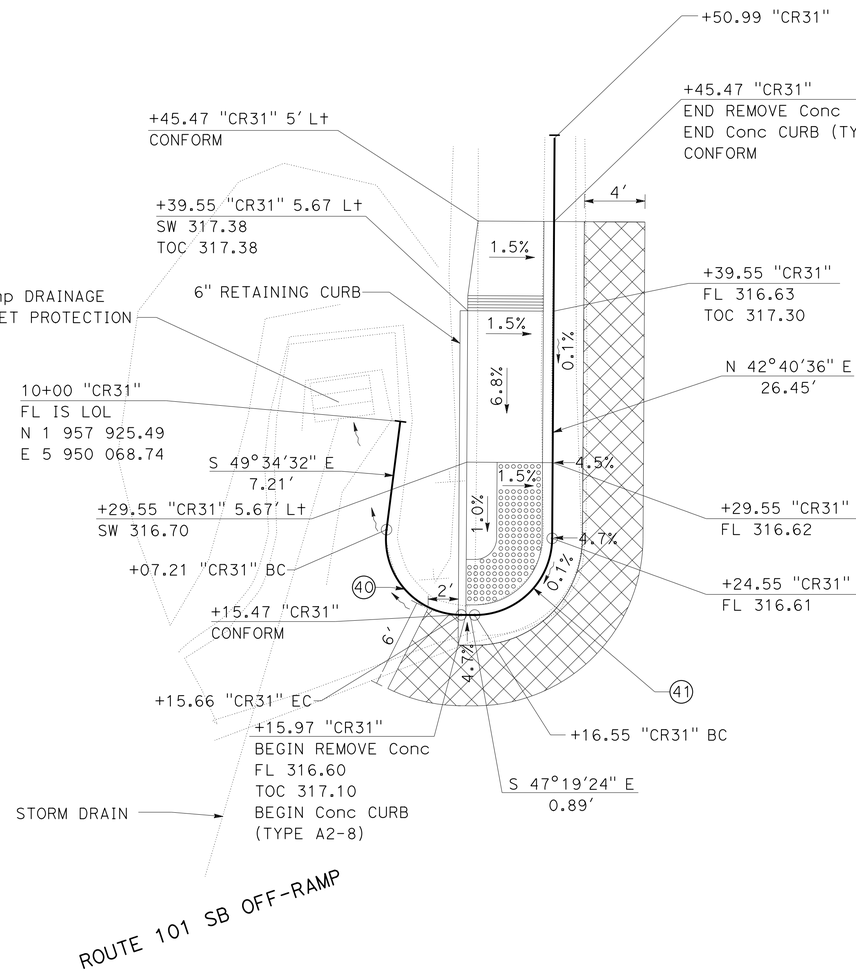
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

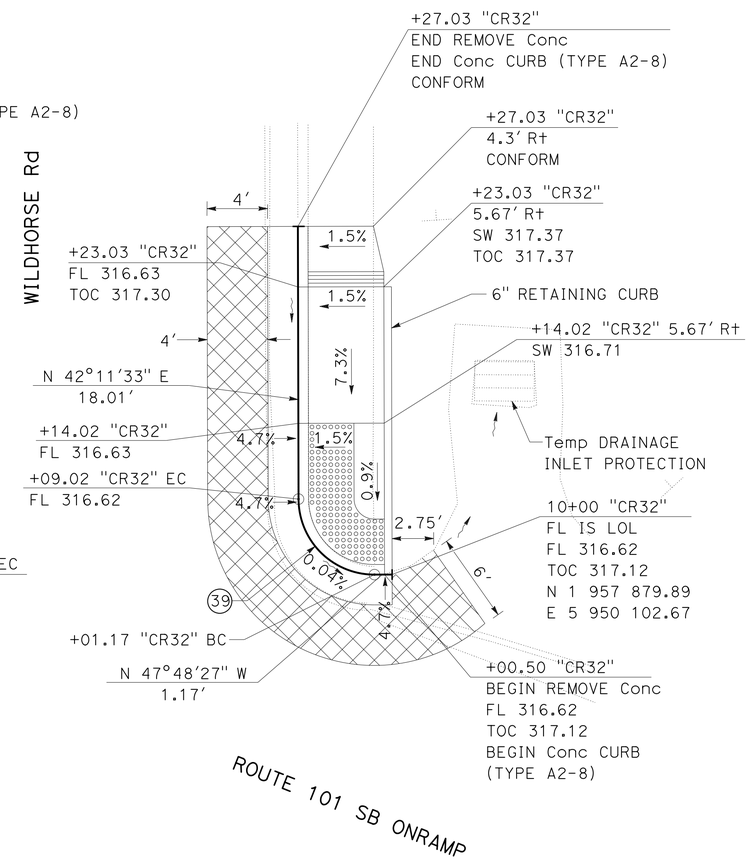
NOTE:

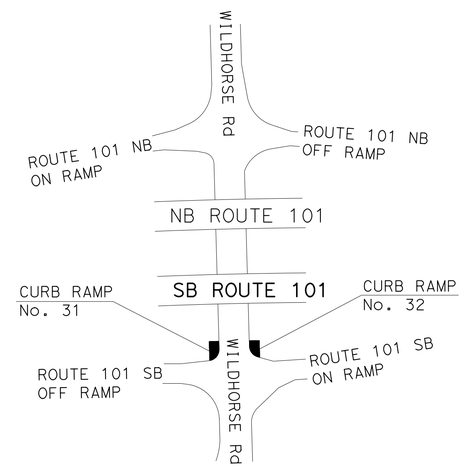
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊕	R	Δ	T	L
39	5.00′	89°59′60"	5.00′	7.85′
40	5.00′	96°53′56"	5.64′	8.46′
41	5.09′	89°59′60"	5.09′	8.00′







LOCATION DETAIL
NO SCALE

CURB RAMP No. 31, PM 37.1
CASE CM
ROUTE 101 SB OFF-RAMP AND WILDHORSE Rd, KING CITY
(NE CORNER)

CURB RAMP No. 32, PM 37.1
CASE CM
ROUTE 101 SB ON-RAMP AND WILDHORSE Rd, KING CITY
(SE CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	20	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

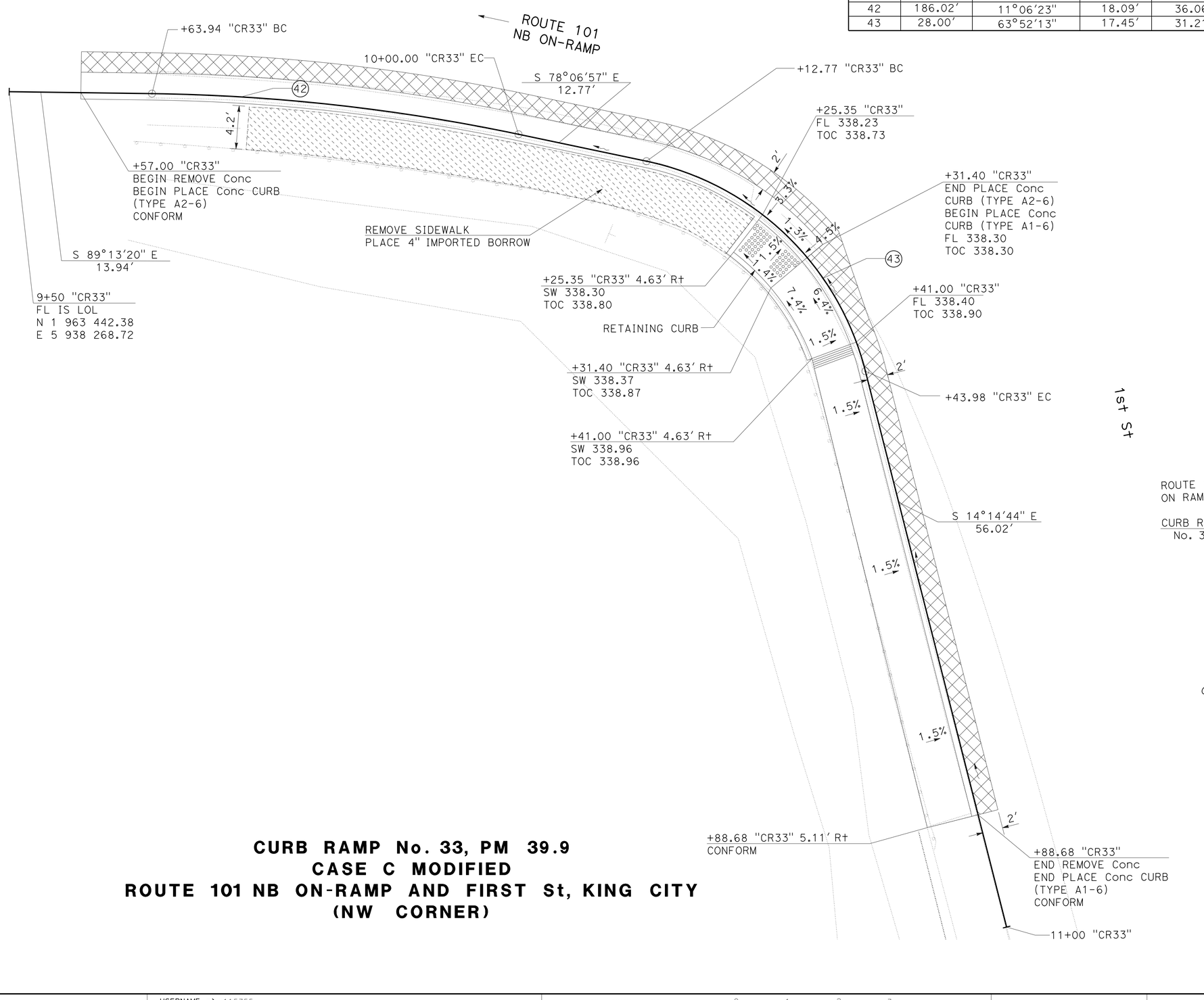
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

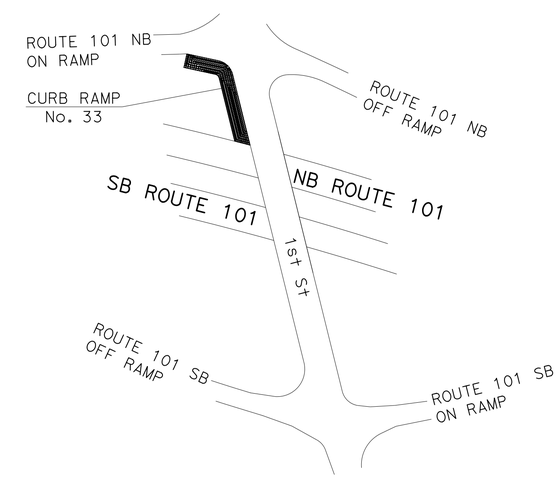
NOTE:

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

CURVE DATA

No. ⊛	R	Δ	T	L
42	186.02′	11°06′23″	18.09′	36.06′
43	28.00′	63°52′13″	17.45′	31.21′





LOCATION DETAIL

NO SCALE

CURB RAMP No. 33, PM 39.9
CASE C MODIFIED
ROUTE 101 NB ON-RAMP AND FIRST St, KING CITY
(NW CORNER)

CONSTRUCTION DETAILS

SCALE: 1"=5′

C-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	21	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

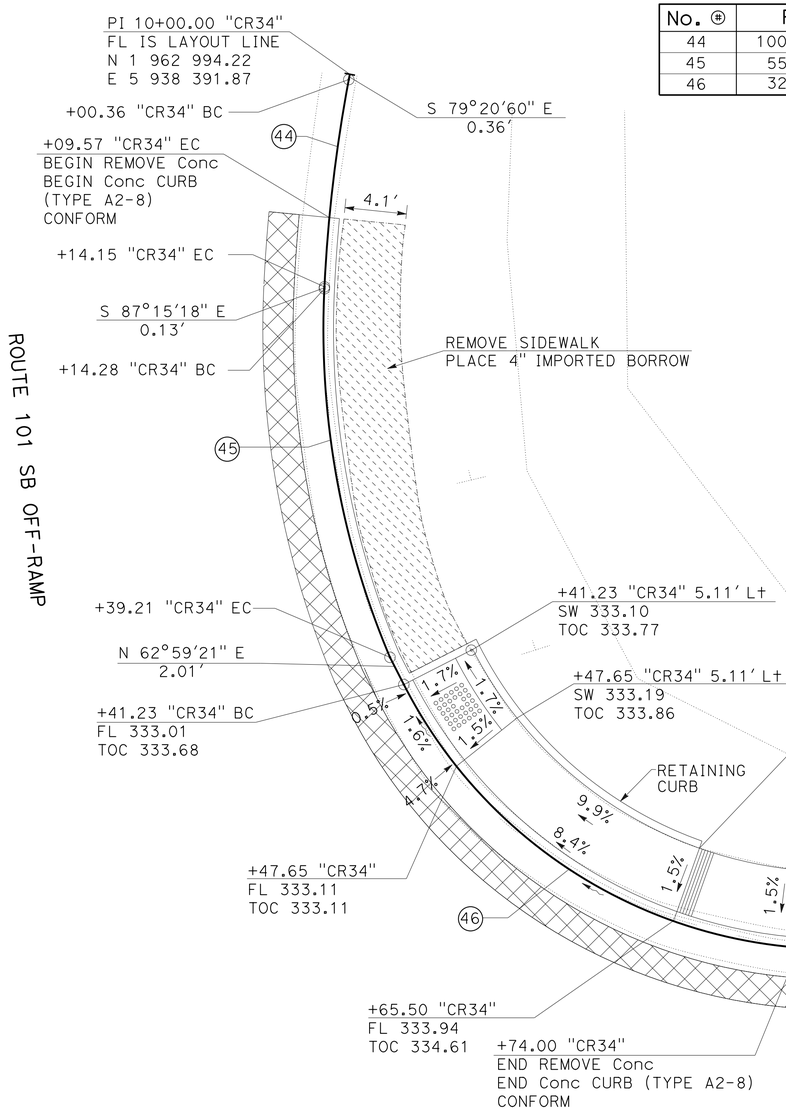
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

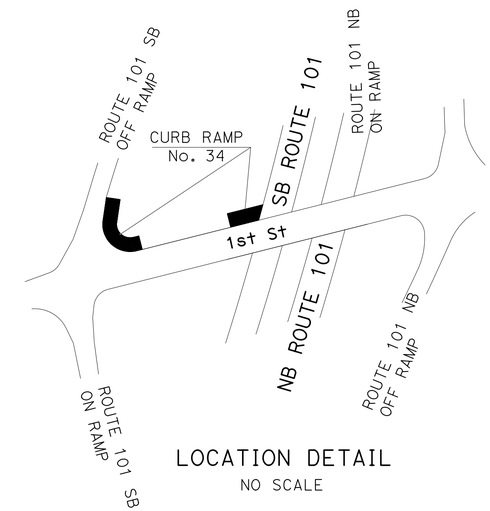
NOTE:

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

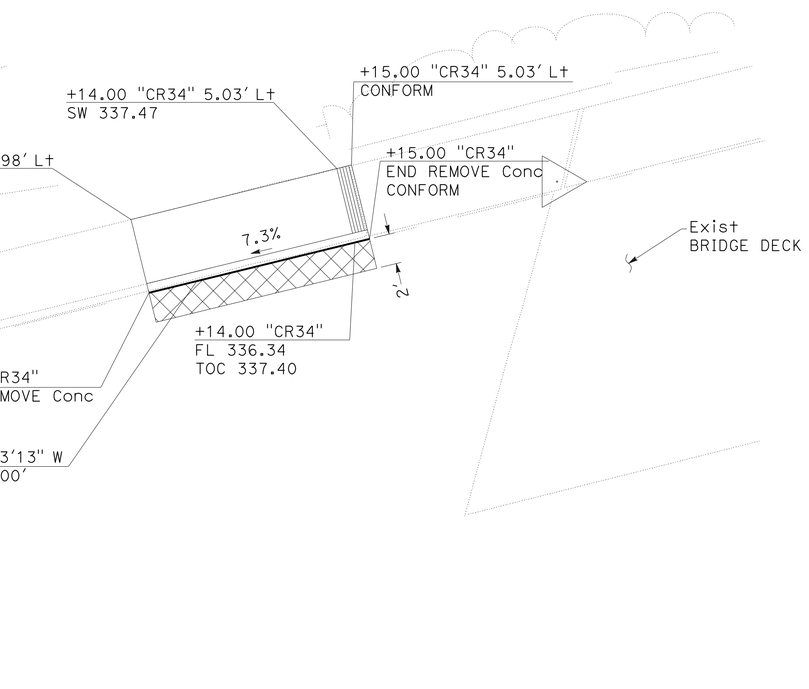
CURVE DATA

No. ⊕	R	Δ	T	L
44	100.00′	07°54′18"	6.91′	13.80′
45	55.63′	25°40′42"	12.68′	24.93′
46	32.00′	77°05′54"	25.50′	43.06′





LOCATION DETAIL
NO SCALE



CURB RAMP No. 34, PM 39.9
CASE C MODIFIED
ROUTE 101 SB OFF-RAMP AND FIRST St, KING CITY
(NE CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	22	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

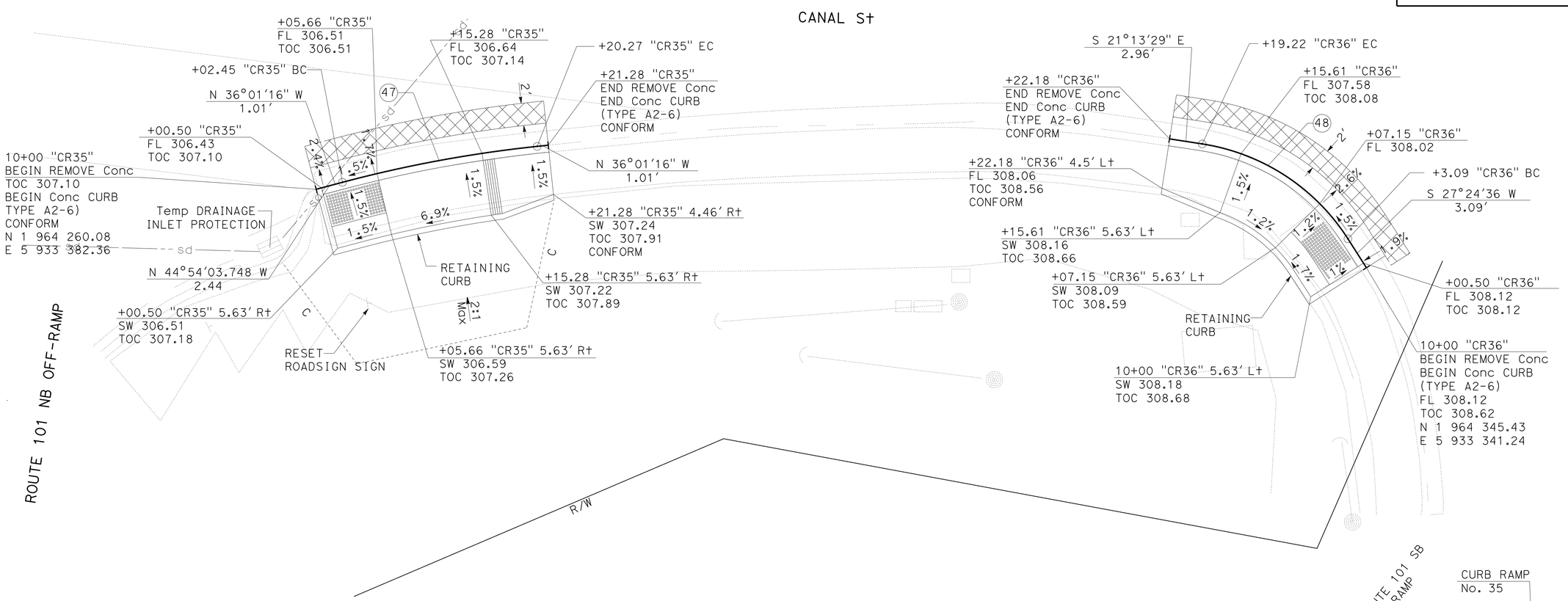
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

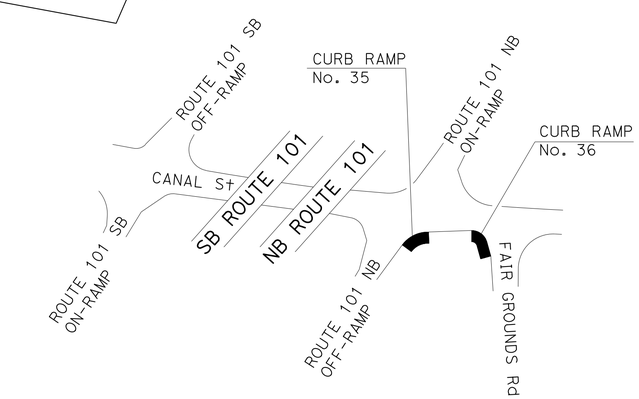
NOTE:

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

CURVE DATA

No.	R	Δ	T	L
47	115.00′	08°52′47″	8.93′	17.82′
48	19.00′	48°38′05″	8.59′	16.13′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 35, PM 40.6
CASE C MODIFIED
ROUTE 101 NB OFF-RAMP AND CANAL St, KING CITY
(SE CORNER)

CURB RAMP No. 36, PM 40.6
CASE C MODIFIED
CANAL St AND FAIRGROUNDS Rd, KING CITY
(SW CORNER)

CONSTRUCTION DETAILS

SCALE: 1"=5′

C-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06=DESIGN
Caltrans
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 DATE PLOTTED => 24-MAR-2014 TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	23	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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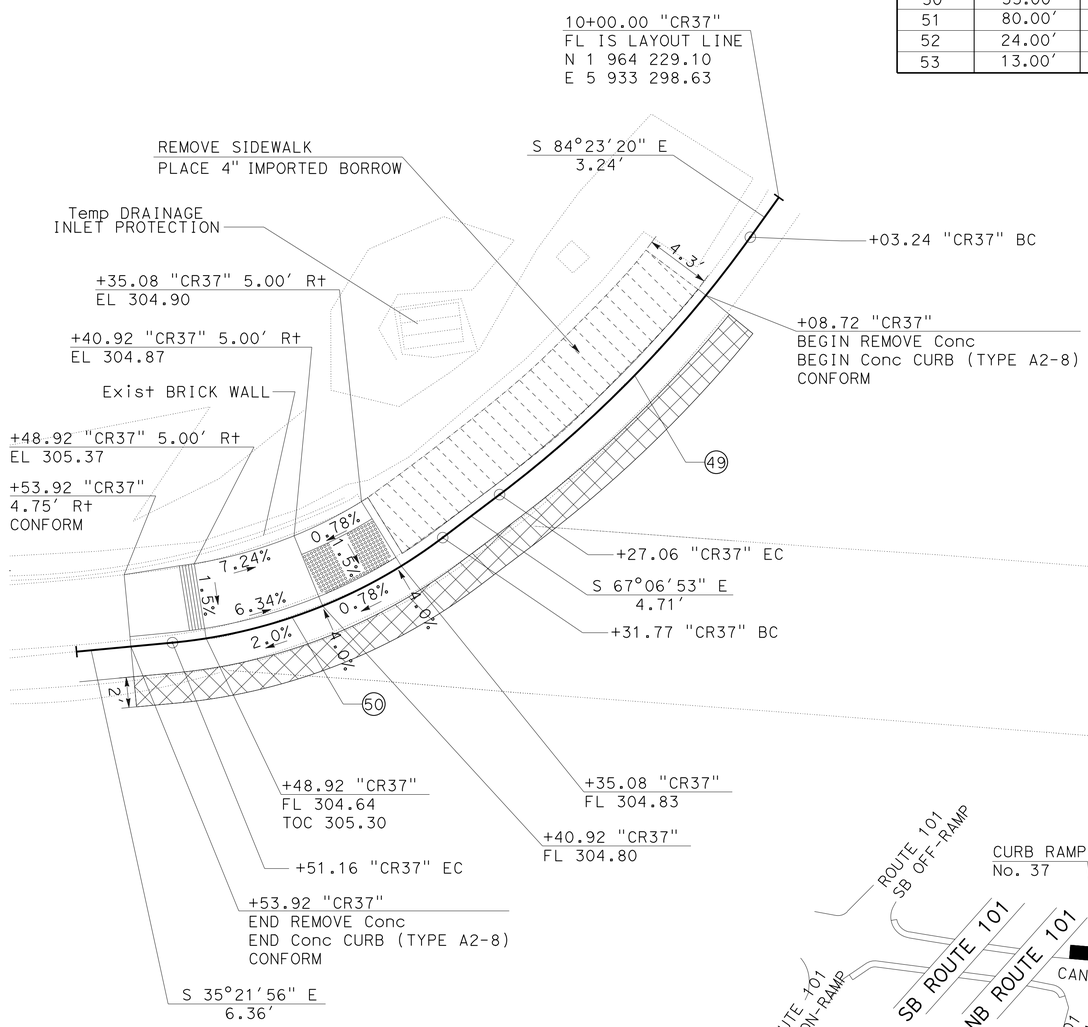
NOTE:

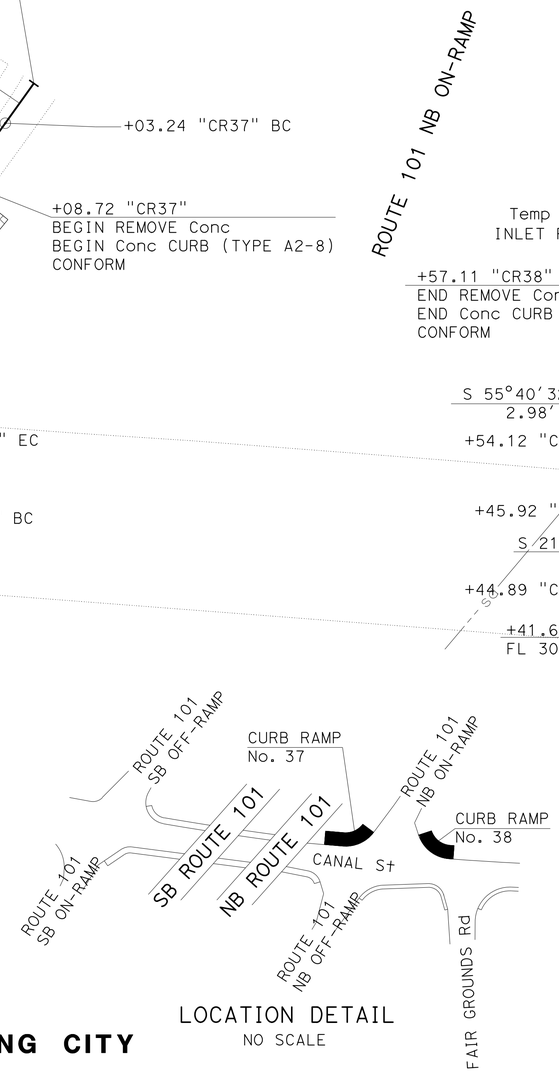
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

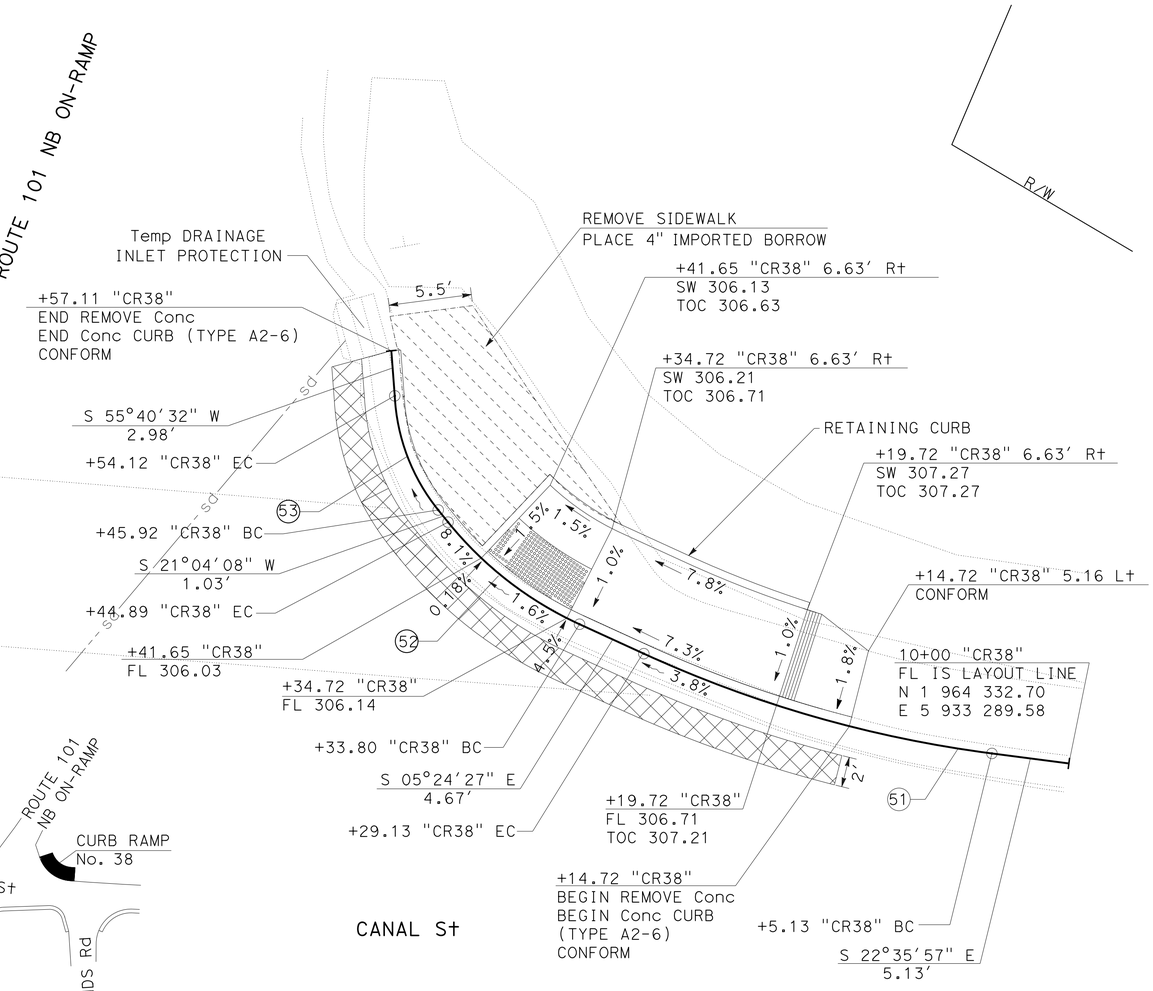
No. ⊕	R	Δ	T	L
49	79.00′	17°16′32"	12.00′	23.82′
50	35.00′	31°44′58"	9.95′	19.39′
51	80.00′	17°11′30"	12.09′	24.00′
52	24.00′	26°28′35"	5.65′	11.09′
53	13.00′	36°09′13"	4.24′	8.20′



CURB RAMP No. 37, PM 40.6
CASE C MODIFIED
ROUTE 101 NB ON-RAMP AND CANAL St, KING CITY
(NW CORNER)



LOCATION DETAIL
NO SCALE



CURB RAMP No. 38, PM 40.6
CASE C MODIFIED
ROUTE 101 NB ON-RAMP AND CANAL St, KING CITY
(NE CORNER)

CONSTRUCTION DETAILS

SCALE: 1"=5′

C-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAYER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	24	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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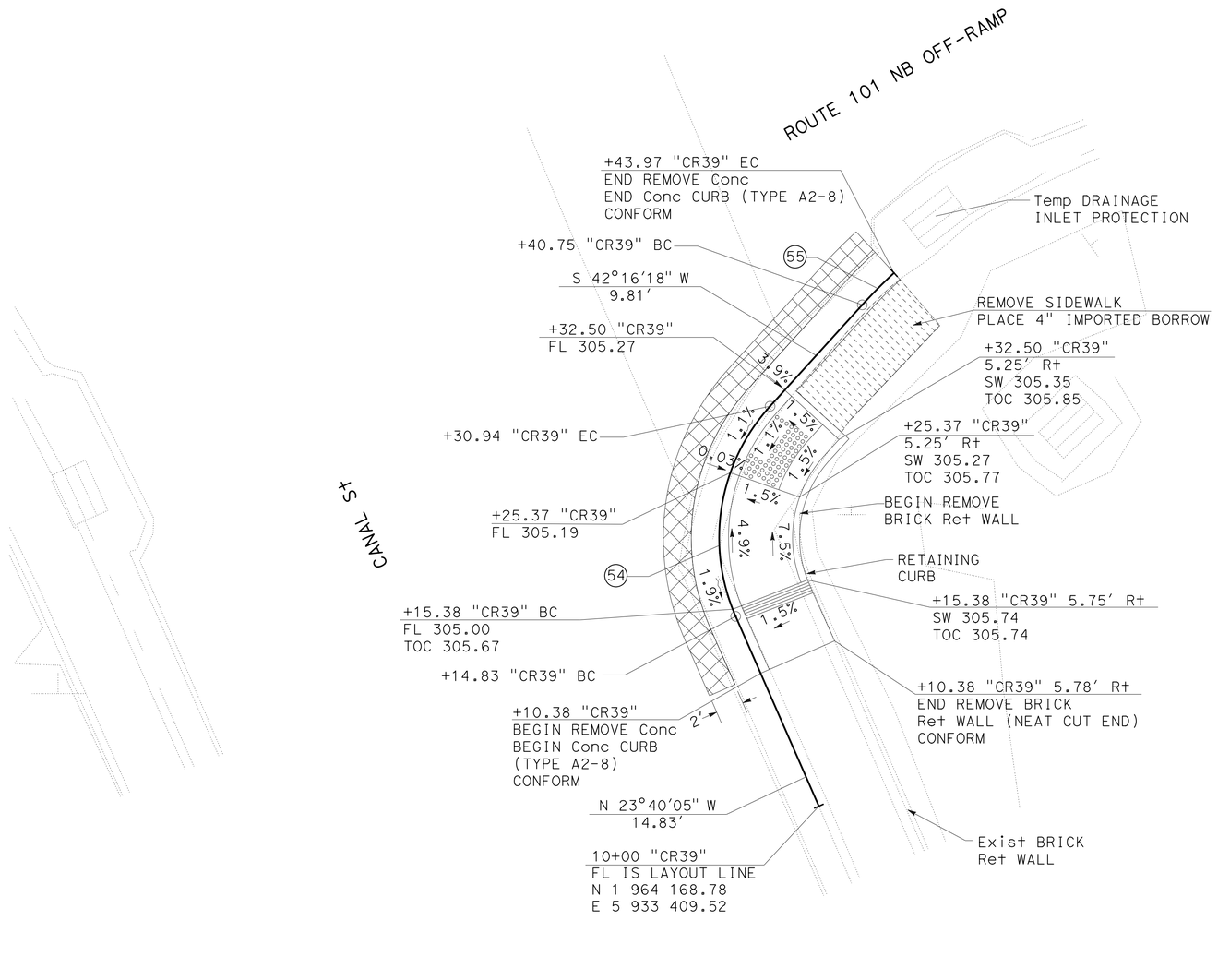
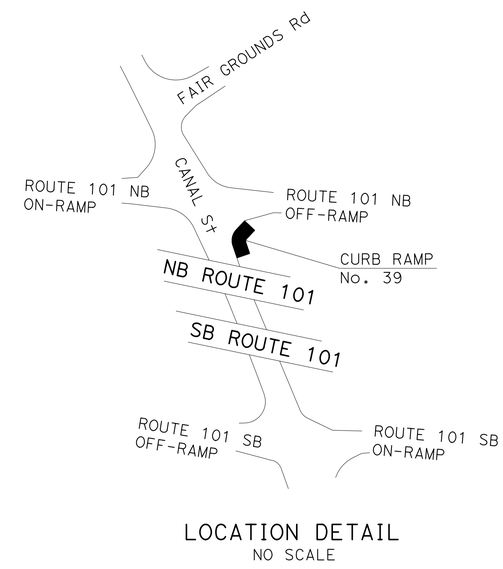
NOTE:

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

CURVE DATA

No. ⊕	R	Δ	T	L
54	14.00′	65°56′23"	9.08′	16.11′
55	36.00′	05°07′50"	1.61′	3.22′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 39, PM 40.6
CASE C MODIFIED
ROUTE 101 NB OFF-RAMP AND CANAL St, KING CITY
(SW CORNER)

CONSTRUCTION DETAILS
C-23

SCALE: 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	25	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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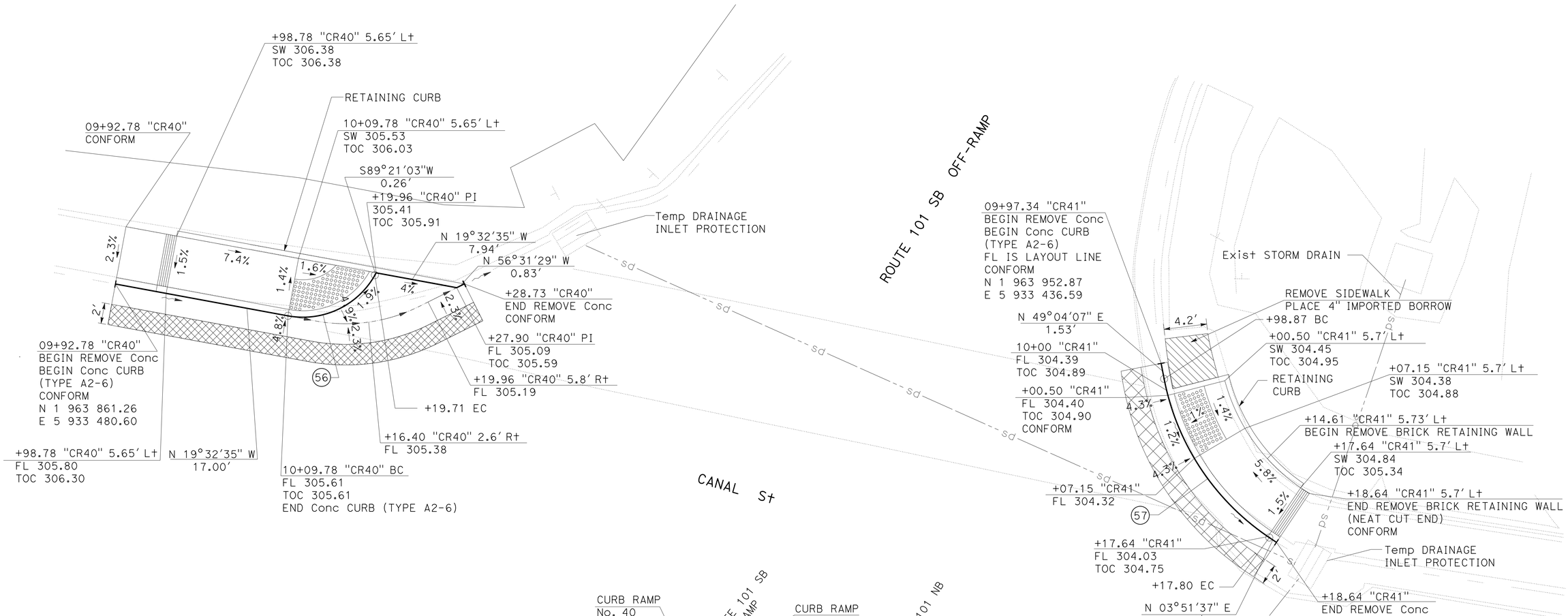
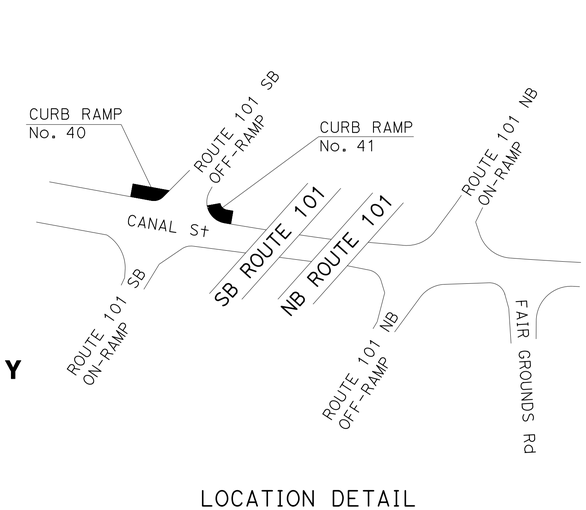
NOTE:

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

CURVE DATA

No. ⊛	R	Δ	T	L
56	8.00′	71°06′21"	5.72′	9.93′
57	24.00′	45°12′31"	9.99′	18.94′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 40, PM 40.6
CASE CM
ROUTE 101 SB OFF-RAMP & CANAL St, KING CITY
(NW CORNER)

CURB RAMP No. 41, PM 40.6
CASE C MODIFIED
ROUTE 101 SB OFF-RAMP & CANAL St, KING CITY
(NE CORNER)

CONSTRUCTION DETAILS

C-24

SCALE: 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	26	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

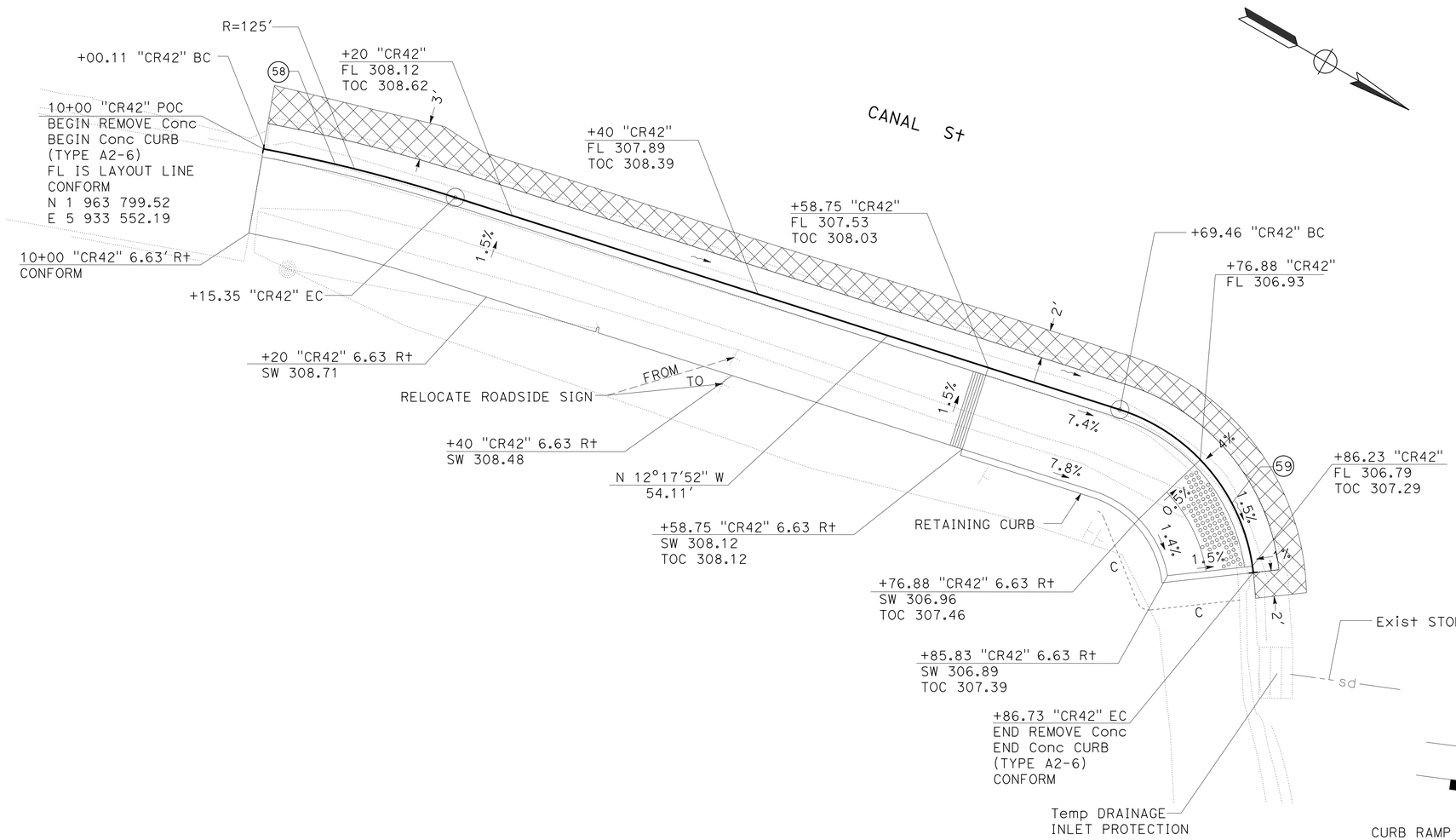
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

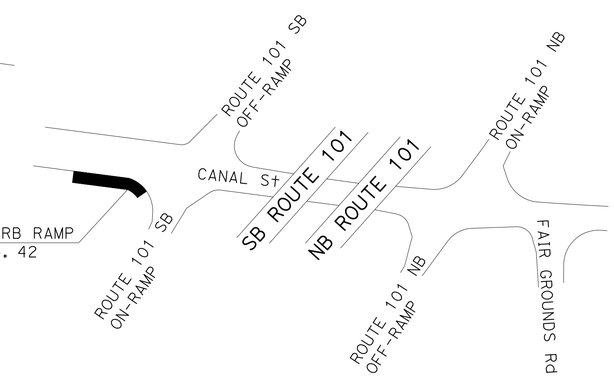
NOTE:

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

CURVE DATA

No. ⊛	R	Δ	T	L
58	125.00′	06°59′05"	7.63′	15.24′
59	15.00′	65°56′33"	9.73′	17.26′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 42, PM 40.6
CASE C MODIFIED
ROUTE 101 SB ON-RAMP & CANAL St, KING CITY
(SW CORNER)

CONSTRUCTION DETAILS
C-25

SCALE: 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	27	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

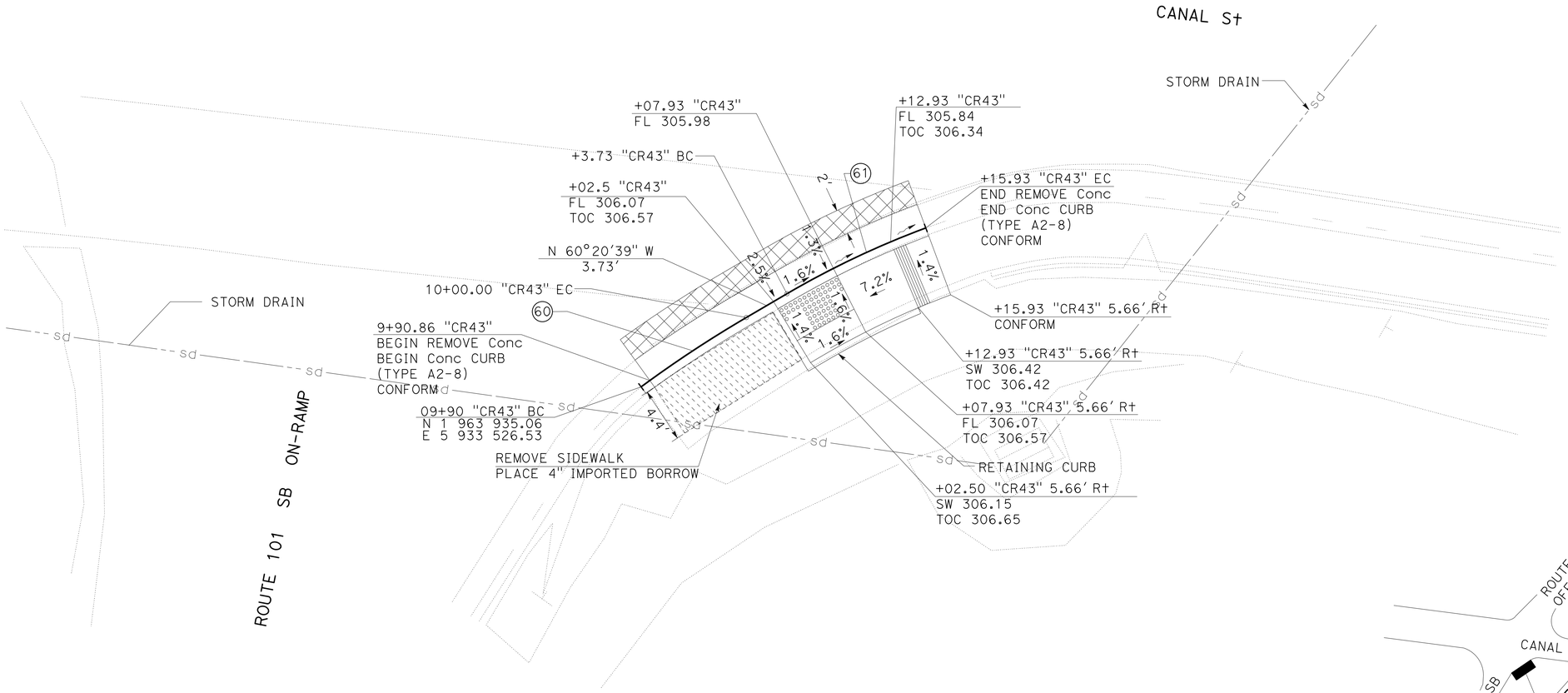
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

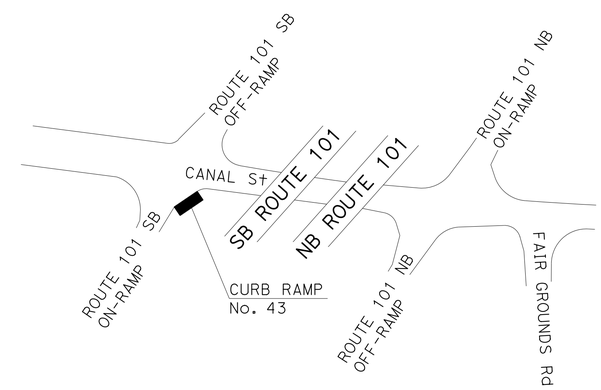
NOTE:

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

CURVE DATA

No. ⊕	R	Δ	T	L
60	94.22′	06°04′51″	5.00′	10.00′
61	70.00′	09°59′13″	6.12′	12.20′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 43, PM 40.6
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND CANAL St, KING CITY
(SE CORNER)

CONSTRUCTION DETAILS

SCALE 1"=5′

C-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	28	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

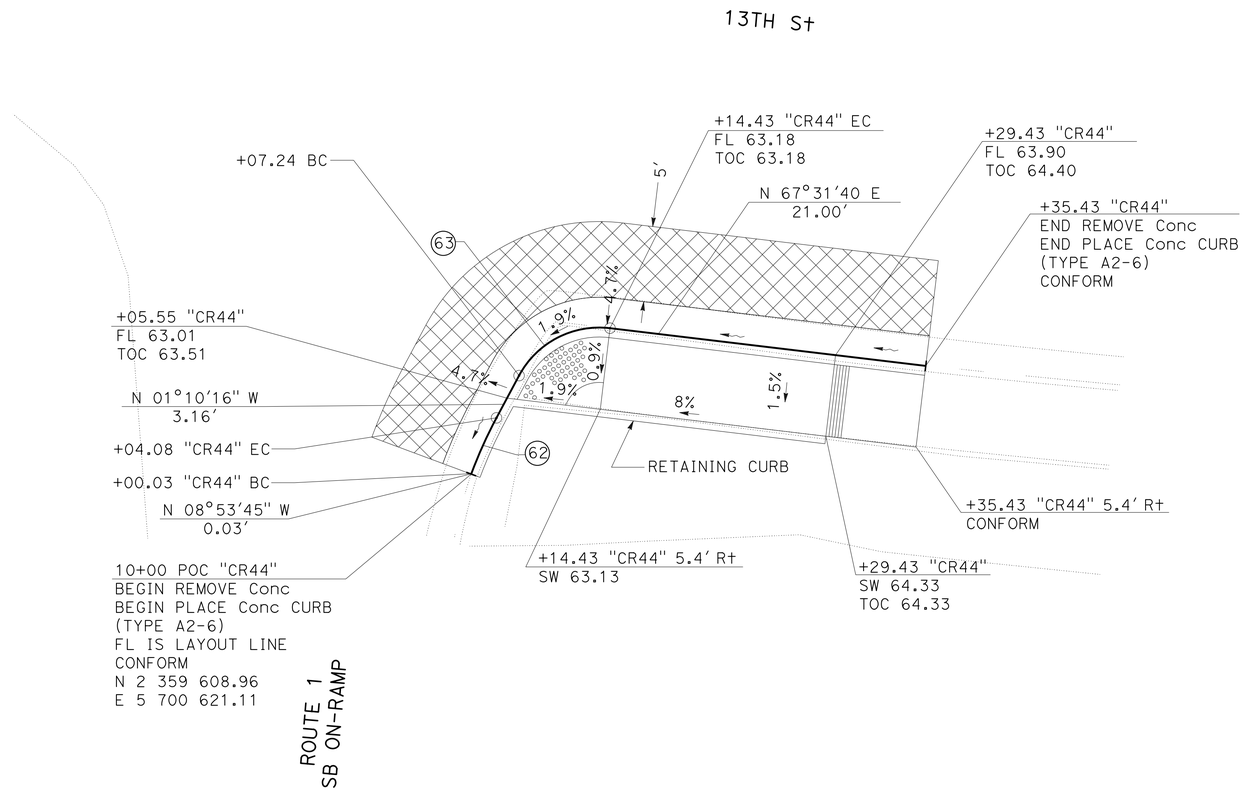
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

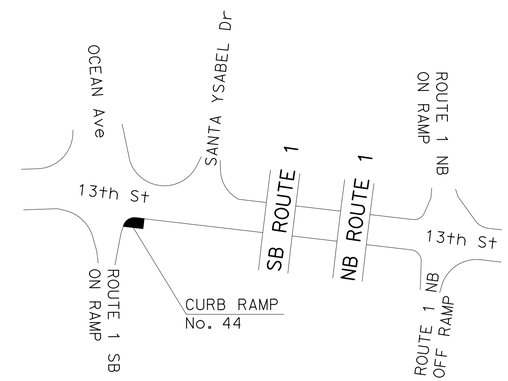
NOTE:

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

CURVE DATA

No. ⊛	R	Δ	T	L
62	30.00′	07°43′30″	2.03′	4.04′
63	6.00′	68°41′55″	4.10′	7.19′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 44, PM 34.9
CASE CM
ROUTE 1 SB ON-RAMP AND 13TH St, CAYUCOS
(SW CORNER)

CONSTRUCTION DETAILS

C-27

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	29	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

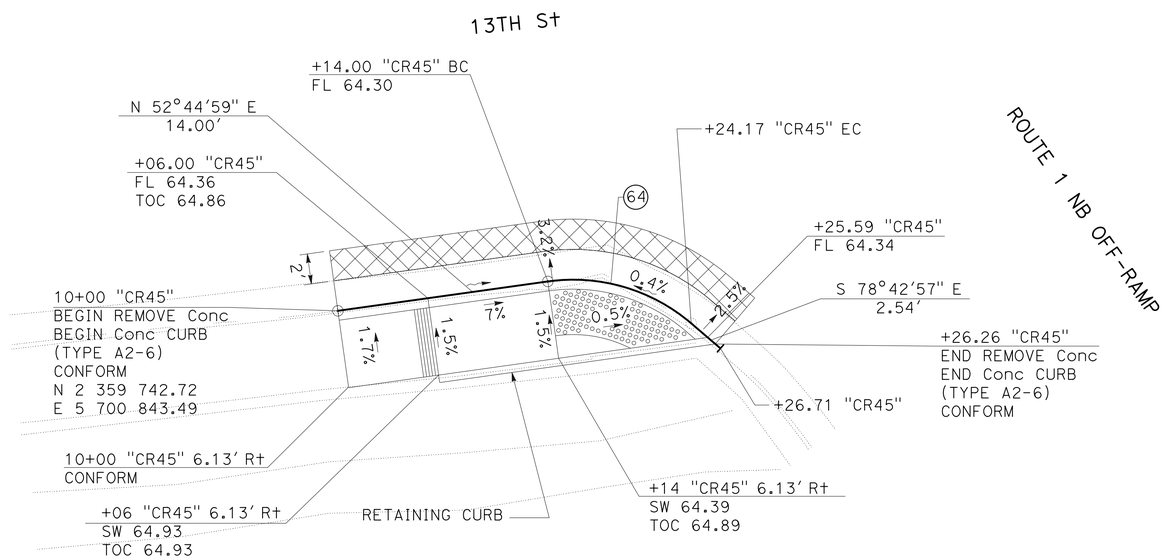
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

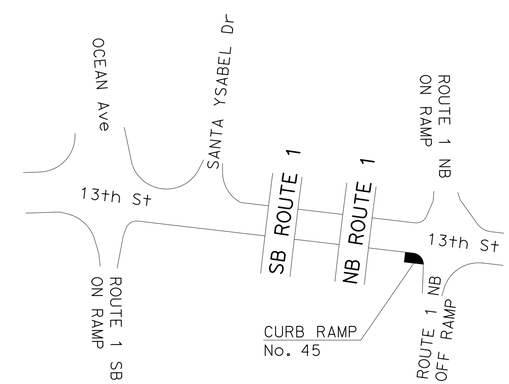
NOTE:

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

CURVE DATA

No. ⊕	R	Δ	T	L
64	12.00′	48°32′04"	5.41′	10.17′





LOCATION DETAIL
NO SCALE

CURB RAMP No. 45, PM 34.9
CASE CM
ROUTE 1 NB OFF-RAMP AND 13TH St, CAYUCOS
(SE CORNER)

CONSTRUCTION DETAILS

C-28

SCALE 1"=5′

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	30	91

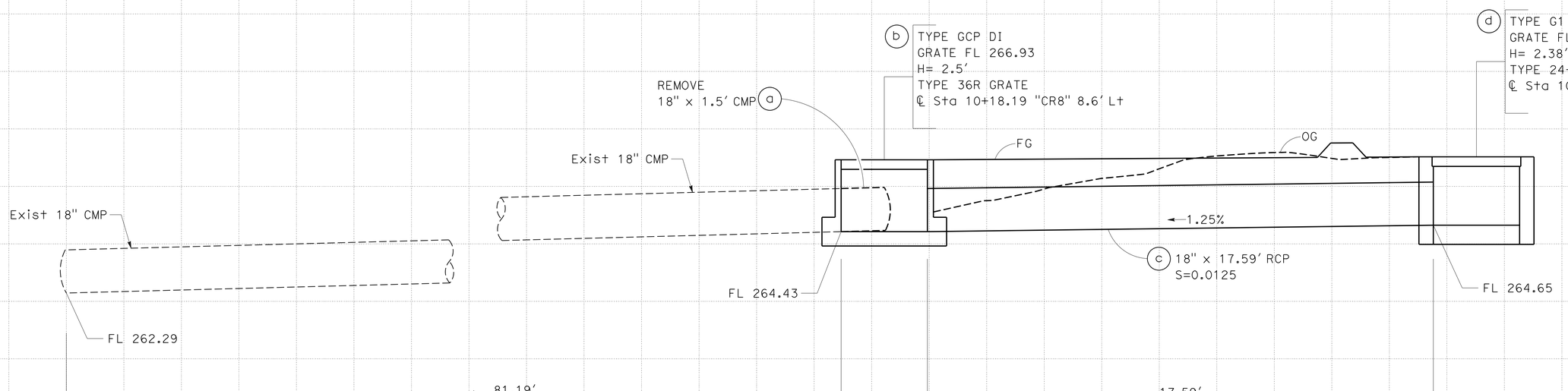
REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 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.

PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	DRAINAGE INLET: MINOR CONCRETE (MINOR STRUCTURE)	DRAINAGE INLET: (N) HEIGHT OF INLET "H"	DRAINAGE INLET: Misc IRON AND STEEL	REMOVE CULVERT	18" RCP	36" RCP	(N) MAXIMUM COVER	DESCRIPTION	LOCATION	PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
			CY	LF	LB	LF	LF	LF	FT					
C-4	1	a				1.5				18" CMP	+17.02 "CR8"	C-4	1	a
		b	1.12	2.50	236					GCP DI, 36R GRATE	+18.19 "CR8"			b
		c					17.59		1	18" RCP	+17.80 "CR8"			c
		b						3.00		36" RCP INLET	+18.19 "CR8"			b
		d	0.95	2.39	239					G1 DI, 24-12X GRATE	+24.27 "CR8"			d
TOTAL			2.07		475	1.5	17.59	3.00						



DRAINAGE SYSTEM No. (1)

(SEE SHEET C-4)

DRAINAGE PROFILES

SCALE: Horiz ½"=1'
Vert ½"=1'

DP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
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DATE REVISED

LAST REVISION 12-16-13 DATE PLOTTED => 24-MAR-2014 TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	31	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

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POTHOLING INFORMATION

(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	PACIFIC GAS AND ELECTRIC (PG&E)	4" GAS	10+37.00	1.90' Lt	334.82'	23"

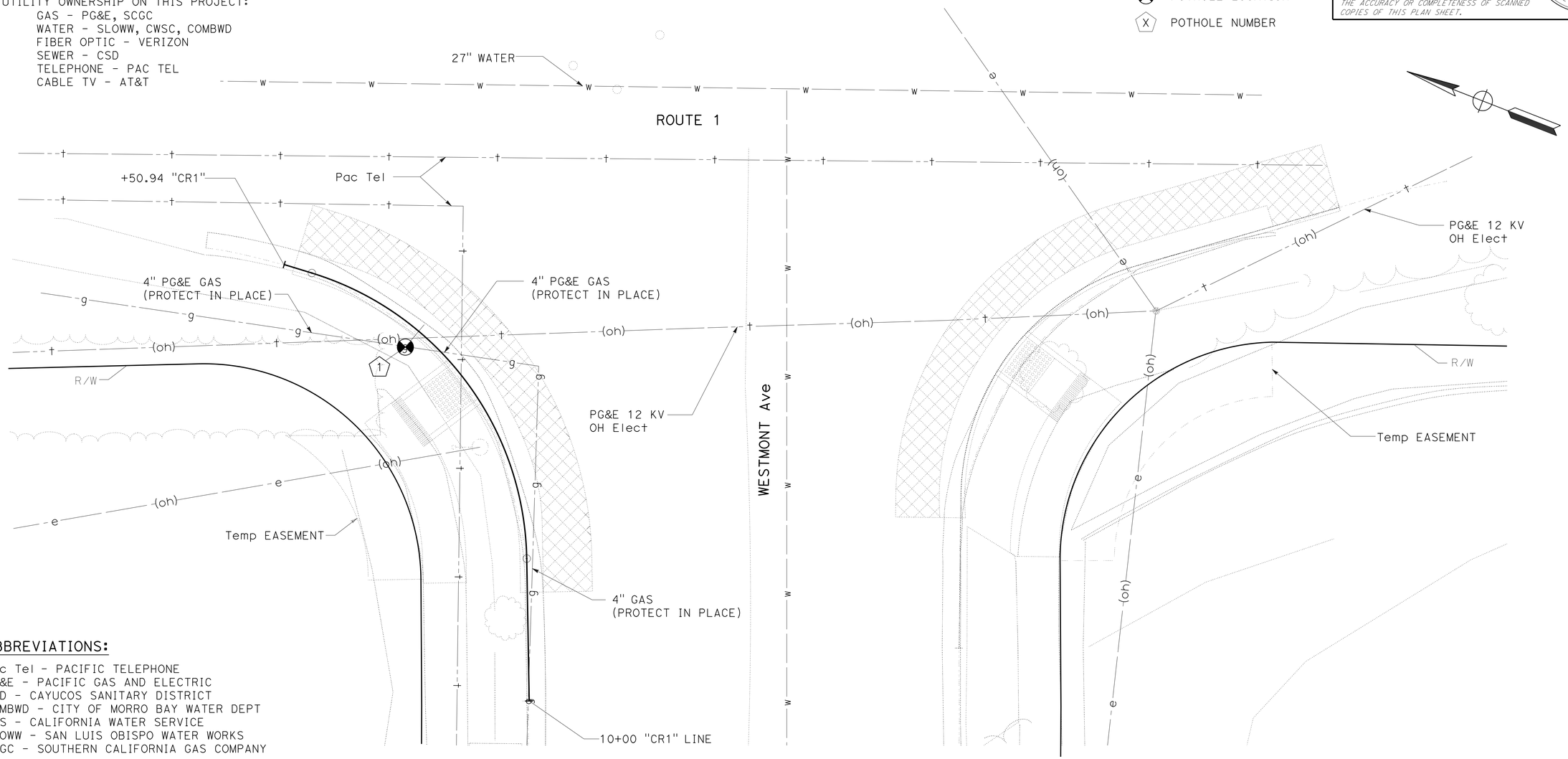
NOTE:

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 PRIOR TO CONSTRUCTION.
3. UTILITY OWNERSHIP ON THIS PROJECT:
   GAS - PG&E, SCGC
   WATER - SLOWW, CWSC, COMBWD
   FIBER OPTIC - VERIZON
   SEWER - CSD
   TELEPHONE - PAC TEL
   CABLE TV - AT&T

LEGEND:

POTHOLE LOCATION

(X) POTHOLE NUMBER



ABBREVIATIONS:

Pac Tel - PACIFIC TELEPHONE
PG&E - PACIFIC GAS AND ELECTRIC
CSD - CAYUCOS SANITARY DISTRICT
COMBWD - CITY OF MORRO BAY WATER DEPT
CWS - CALIFORNIA WATER SERVICE
SLOWW - SAN LUIS OBISPO WATER WORKS
SCGC - SOUTHERN CALIFORNIA GAS COMPANY

CURB RAMP No. 1, PM 18.0
CASE F
ROUTE 1 AND WESTMONT Ave, SAN LUIS OBISPO
(NW CORNER)

CURB RAMP No. 2, PM 18.0
CASE F
ROUTE 1 AND WESTMONT Ave, SAN LUIS OBISPO
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-1

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	32	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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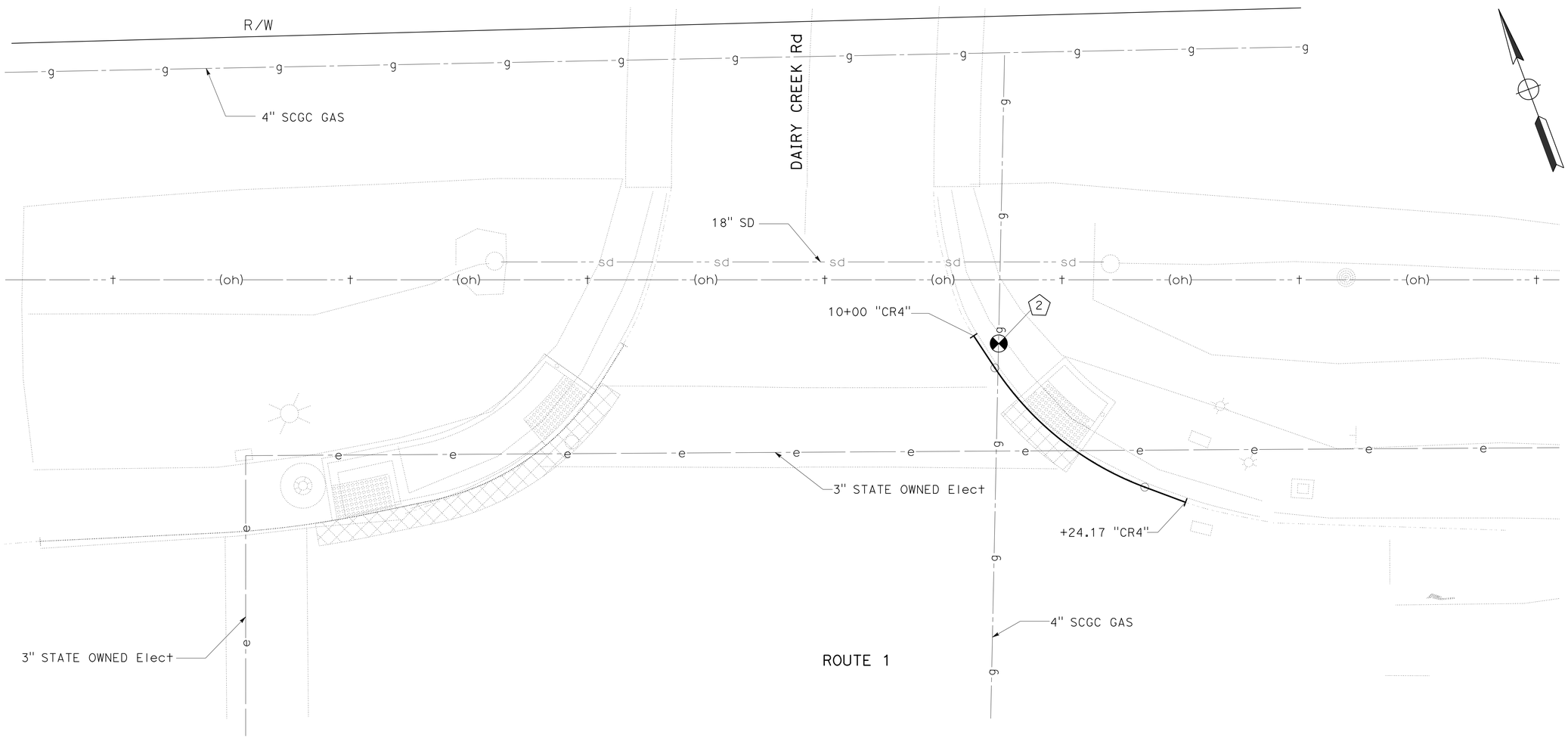
NOTE:

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

POTHOLING INFORMATION

(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
2	SOUTHERN CALIFORNIA GAS COMPANY	4" GAS LINE	10+01.77	1.46'	271.79'	54"



CURB RAMP No. 3, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND DAIRY CREEK Rd, SAN LUIS OBISPO
(NE CORNER)

CURB RAMP No. 4, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND DAIRY CREEK Rd, SAN LUIS OBISPO
(SE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-2

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 19:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	33	91

REGISTERED CIVIL ENGINEER DATE 12-16-13

PLANS APPROVAL DATE 12-16-13

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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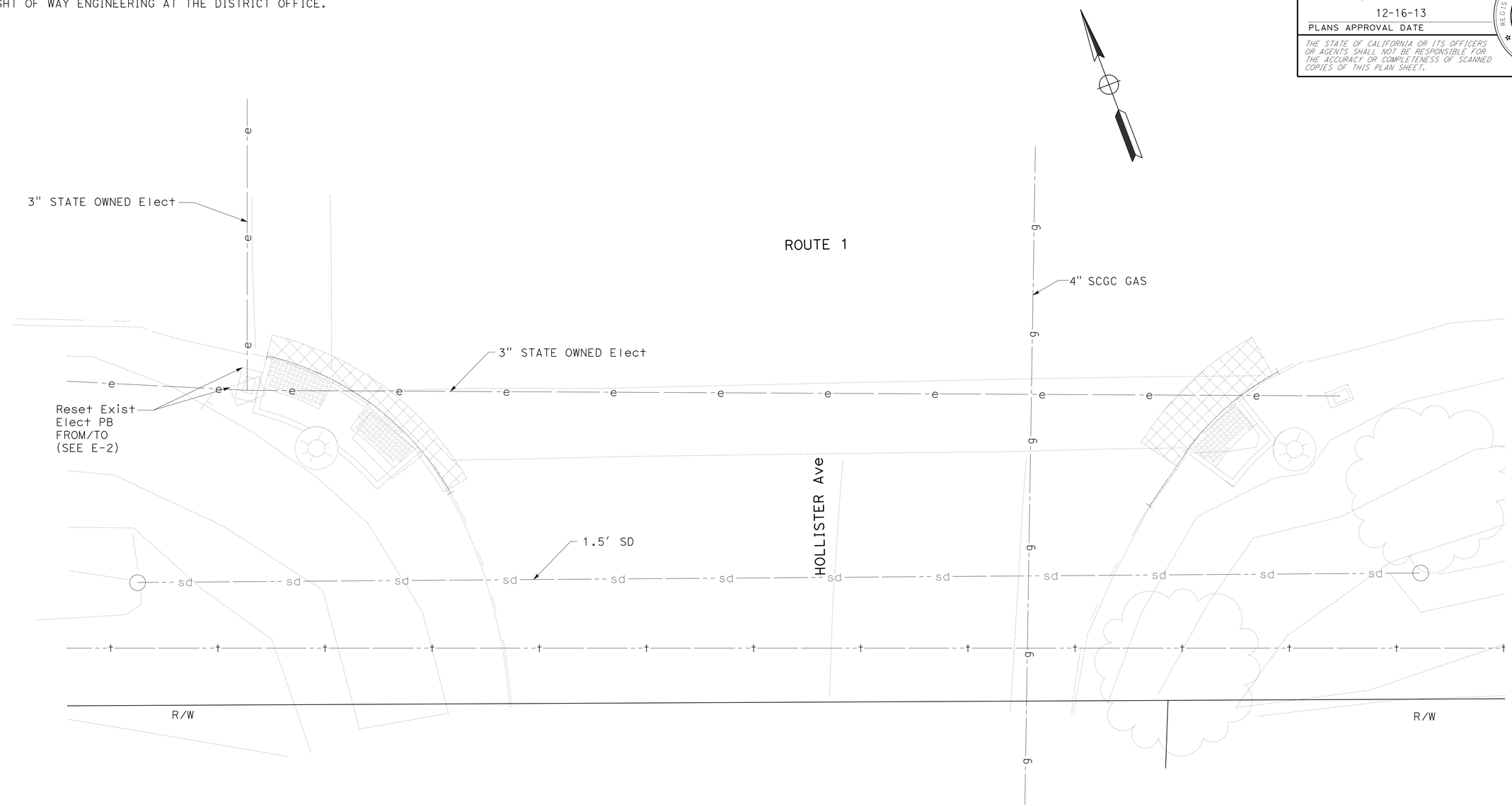

CURB RAMP No. 5, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND HOLLISTER Ave, SAN LUIS OBISPO
(NW CORNER)

CURB RAMP No. 6, PM 22.2
PEDESTRIAN PAD
ROUTE 1 AND HOLLISTER Ave, SAN LUIS OBISPO
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	34	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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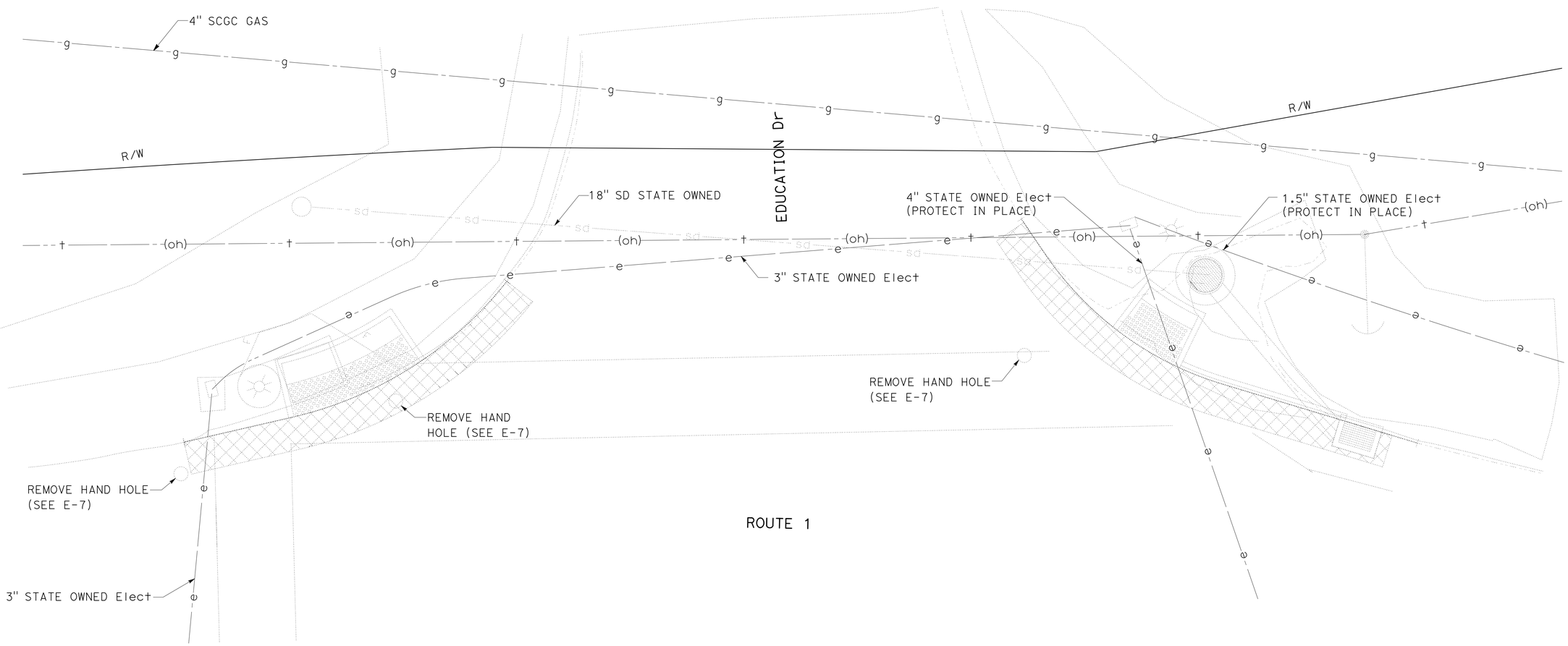
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURB RAMP No. 7, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND EDUCATION Dr, SAN LUIS OBISPO
(NE CORNER)

CURB RAMP No. 8, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND EDUCATION Dr, SAN LUIS OBISPO
(SE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

U-4

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	35	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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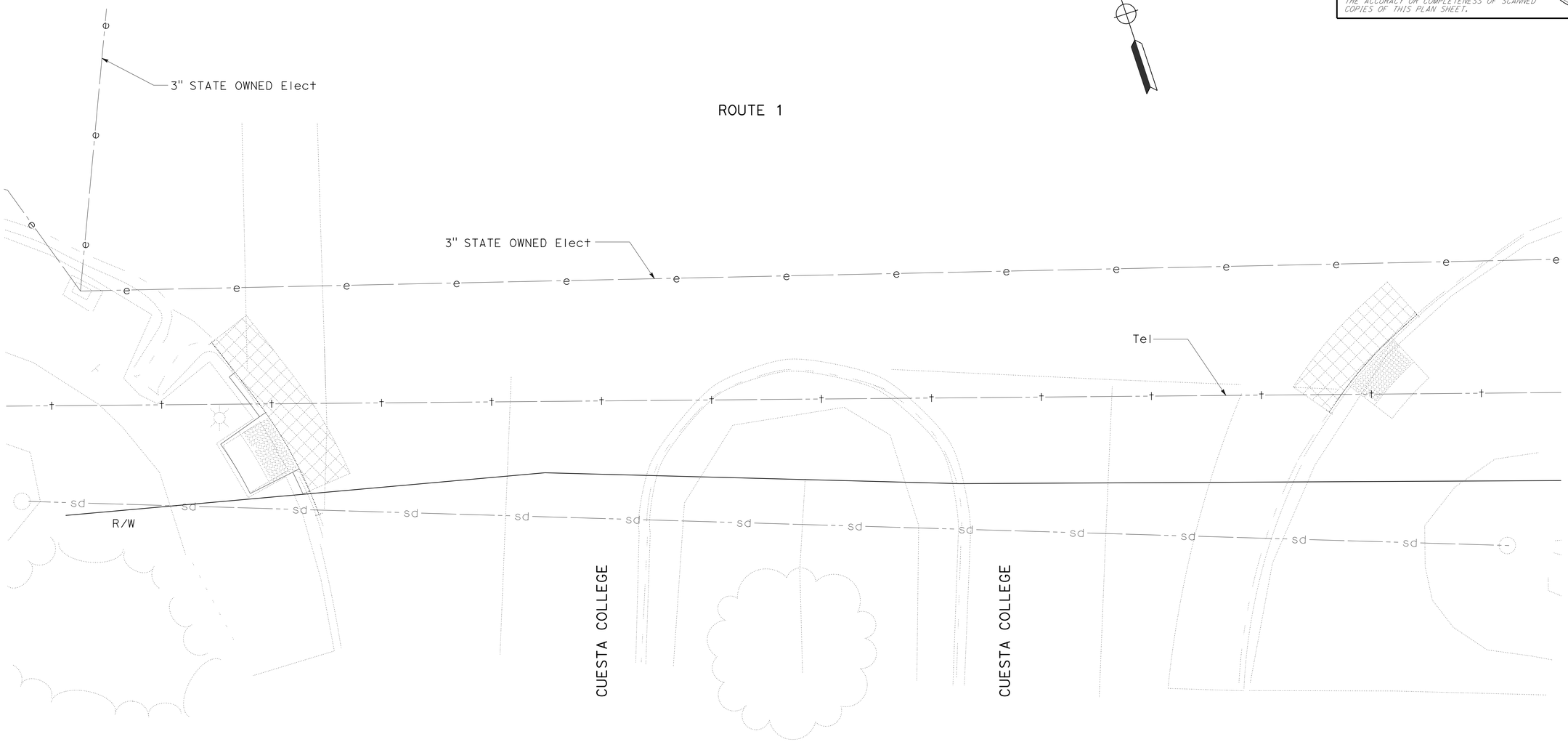
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURB RAMP No. 9, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND CUESTA COLLEGE Rd, SAN LUIS OBISPO
(NW CORNER)

CURB RAMP No. 10, PM 22.7
PEDESTRIAN PAD
ROUTE 1 AND CUESTA COLLEGE Rd, SAN LUIS OBISPO
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	36	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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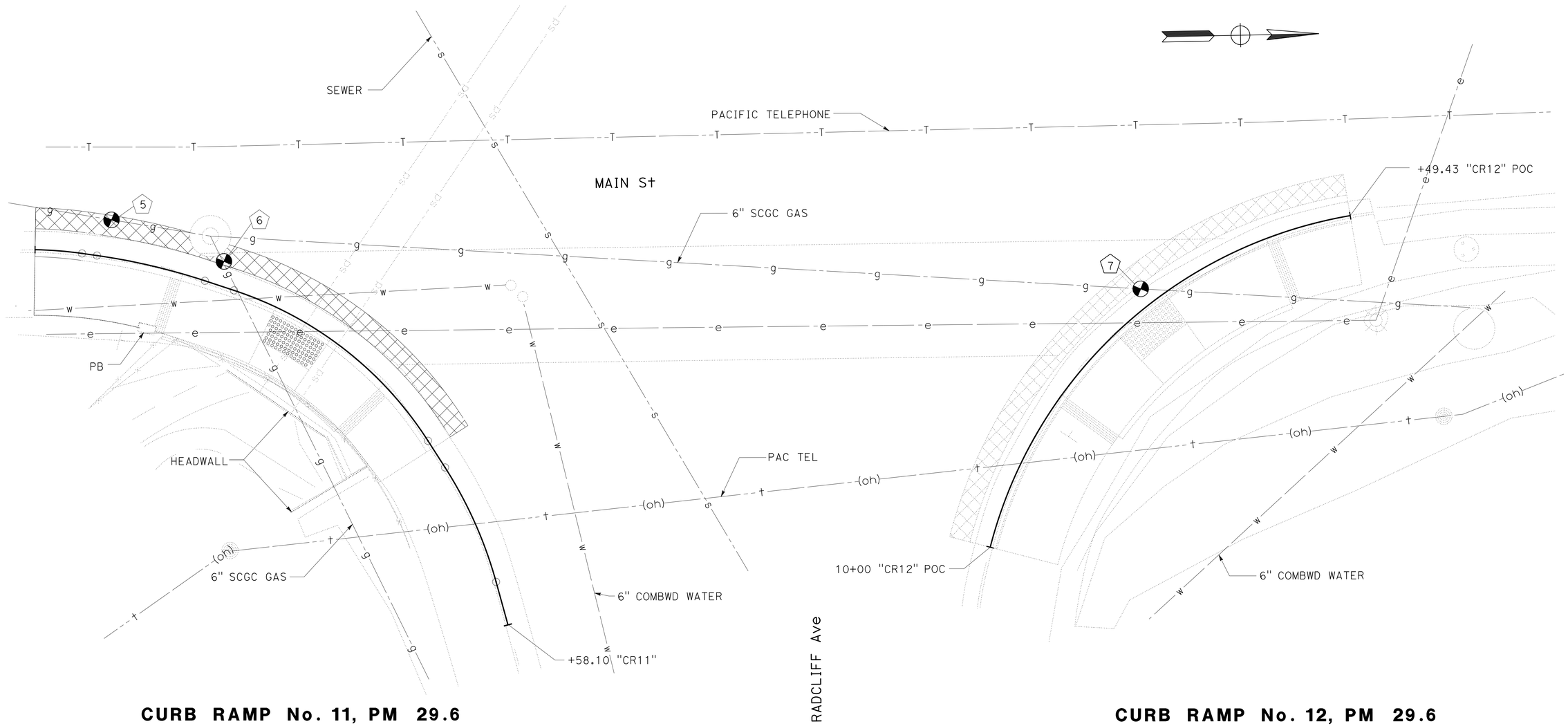
NOTE:

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

POTHOLING INFORMATION

X	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
3	NOT USED					
4	NOT USED					
5	SOUTHERN CALIFORNIA GAS COMPANY	6" GAS	10+02.28	3.58′	24.81′	82"
6	SOUTHERN CALIFORNIA GAS COMPANY	6" GAS	10+13.19	2.33′	24.71′	83"
7	SOUTHERN CALIFORNIA GAS COMPANY	6" GAS	10+28.49	1.68′	24.45′	86"



CURB RAMP No. 11, PM 29.6
CASE C
RADCLIFF AND MAIN St, MORRO BAY
(SW CORNER)

CURB RAMP No. 12, PM 29.6
CASE C
RADCLIFF AND MAIN St, MORRO BAY
(SE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5′

U-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	37	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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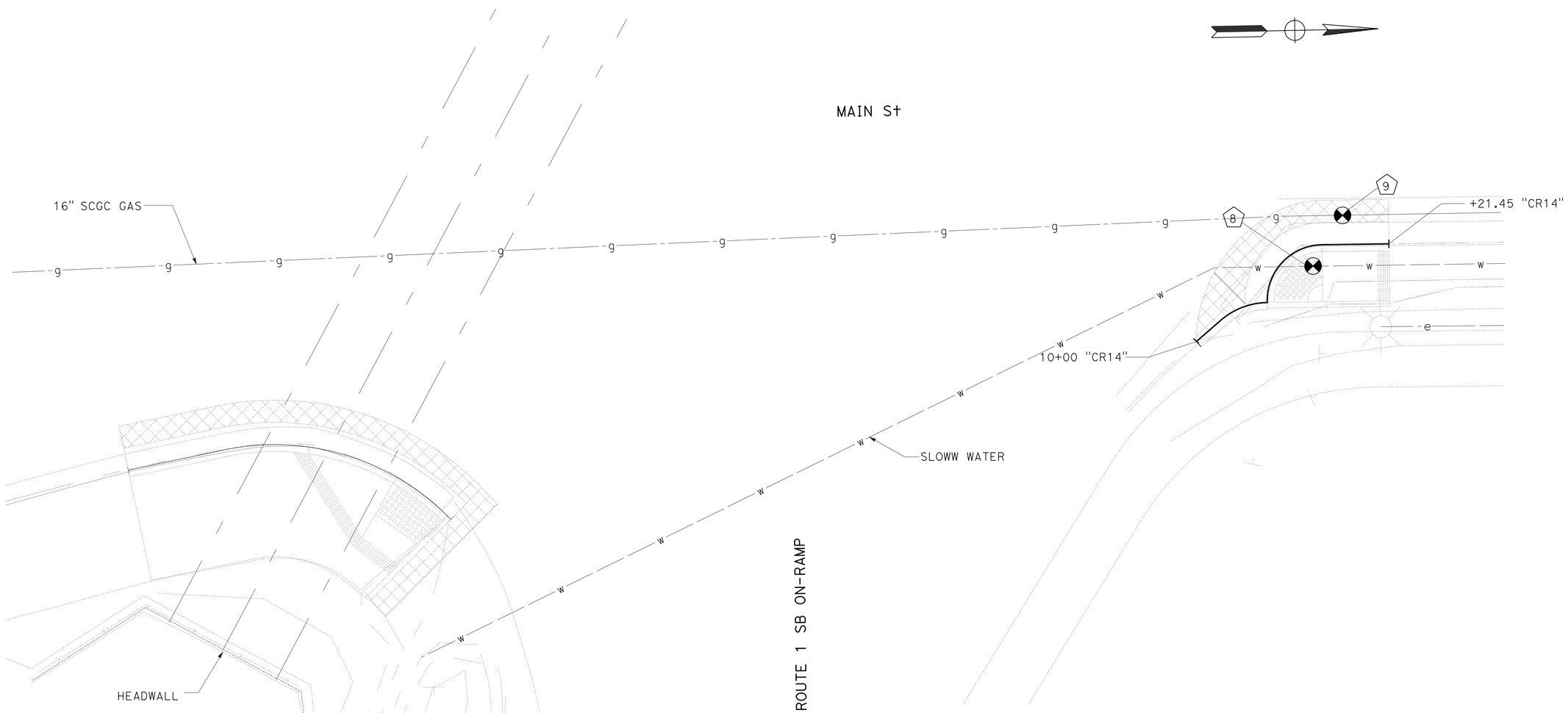
NOTE:

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

POTHOLING INFORMATION

X	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
8	SAN LUIS OBISPO WATER WORKS	10" WATER LINE	10+14.15	1.79 R+	28.84	42"
9	SOUTHERN CALIFORNIA GAS COMPANY	16" GAS	10+17.34	2.61 L+	28.36	58"
10	NOT USED					



CURB RAMP No. 13, PM 29.5
CASE G
ROUTE 1 SB ON RAMP AND MAIN St, MORRO BAY
(SW CORNER)

CURB RAMP No. 14, PM 29.5
CASE CM
ROUTE 1 SB ON RAMP AND MAIN St, MORRO BAY
(SE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-7

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
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DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	38	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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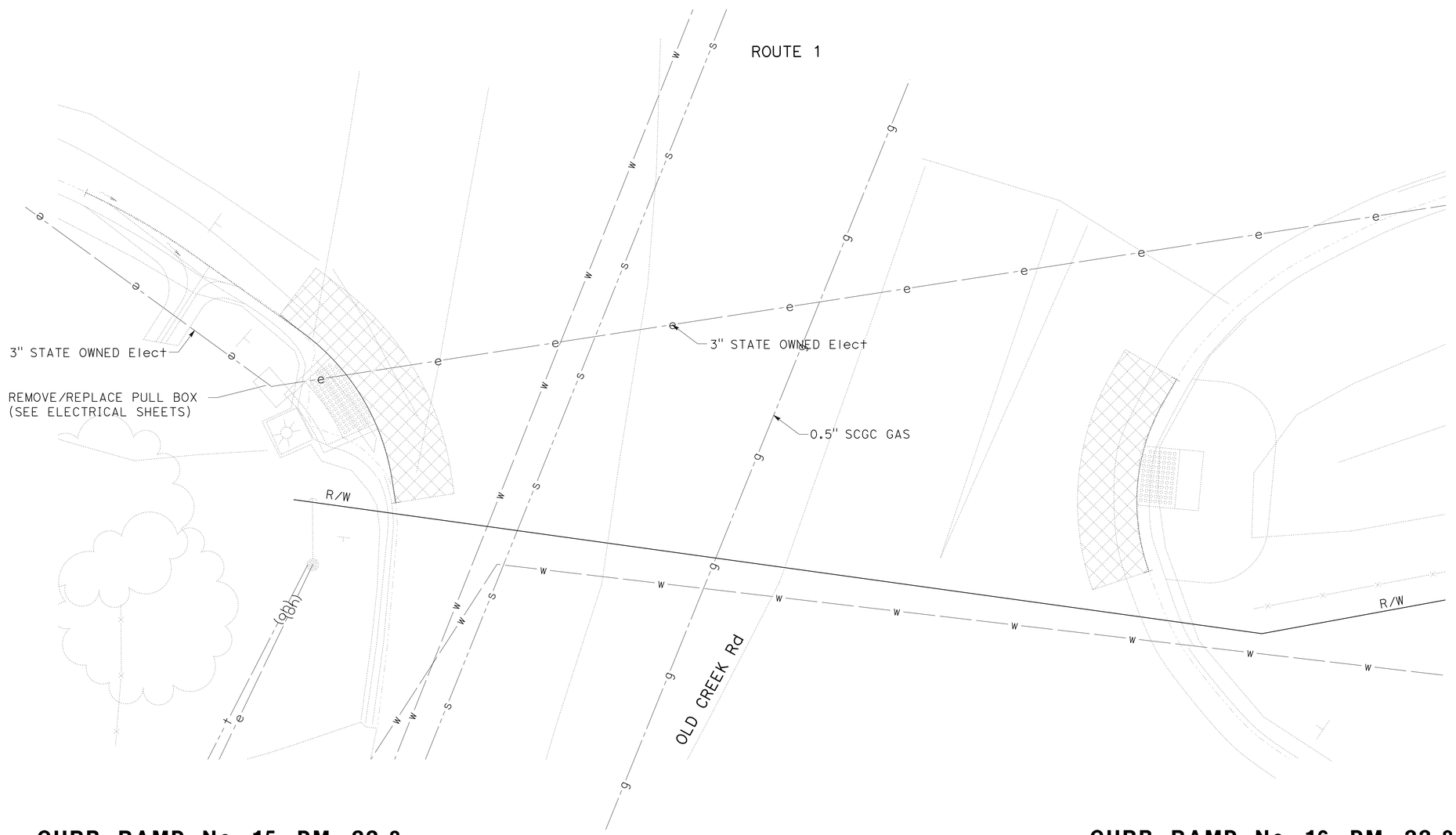

CURB RAMP No. 15, PM 33.8
PEDESTRIAN PAD
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(NW CORNER)

CURB RAMP No. 16, PM 33.8
PEDESTRIAN PAD
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-8

SCALE 1"-5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	39	91

REGISTERED CIVIL ENGINEER DATE 12-16-13

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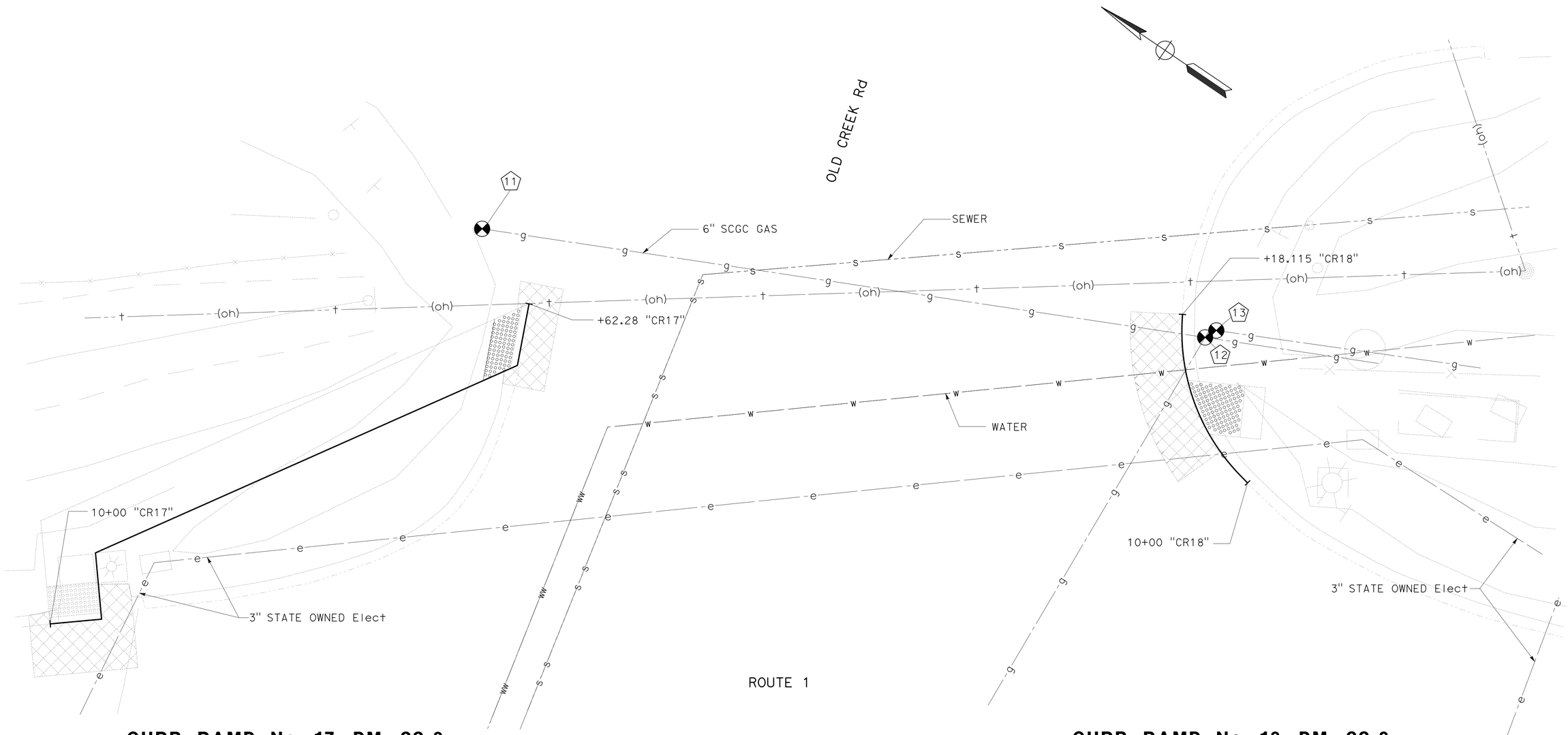
POTHOLING INFORMATION

(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
11	SOUTHERN CALIFORNIA GAS COMPANY	6" HP GAS			37.52	47"
12	SOUTHERN CALIFORNIA GAS COMPANY	6" HP GAS	10+15.81	2.24	37.71	58"
12	SOUTHERN CALIFORNIA GAS COMPANY	6" HP GAS	10+15.81	2.24	37.71	35"
13	SOUTHERN CALIFORNIA GAS COMPANY	6" HP GAS	10+16.58	3.34	37.59	29"



CURB RAMP No. 17, PM 33.8
PEDESTRIAN PAD WALKWAY
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(NE CORNER)

CURB RAMP No. 18, PM 33.8
PEDESTRIAN PAD
ROUTE 1 AND OLD CREEK Rd, CAYUCOS
(SE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

U-9

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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05	Mon,SLO	1, 101	Var	40	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

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POTHOLING INFORMATION

NOTE:

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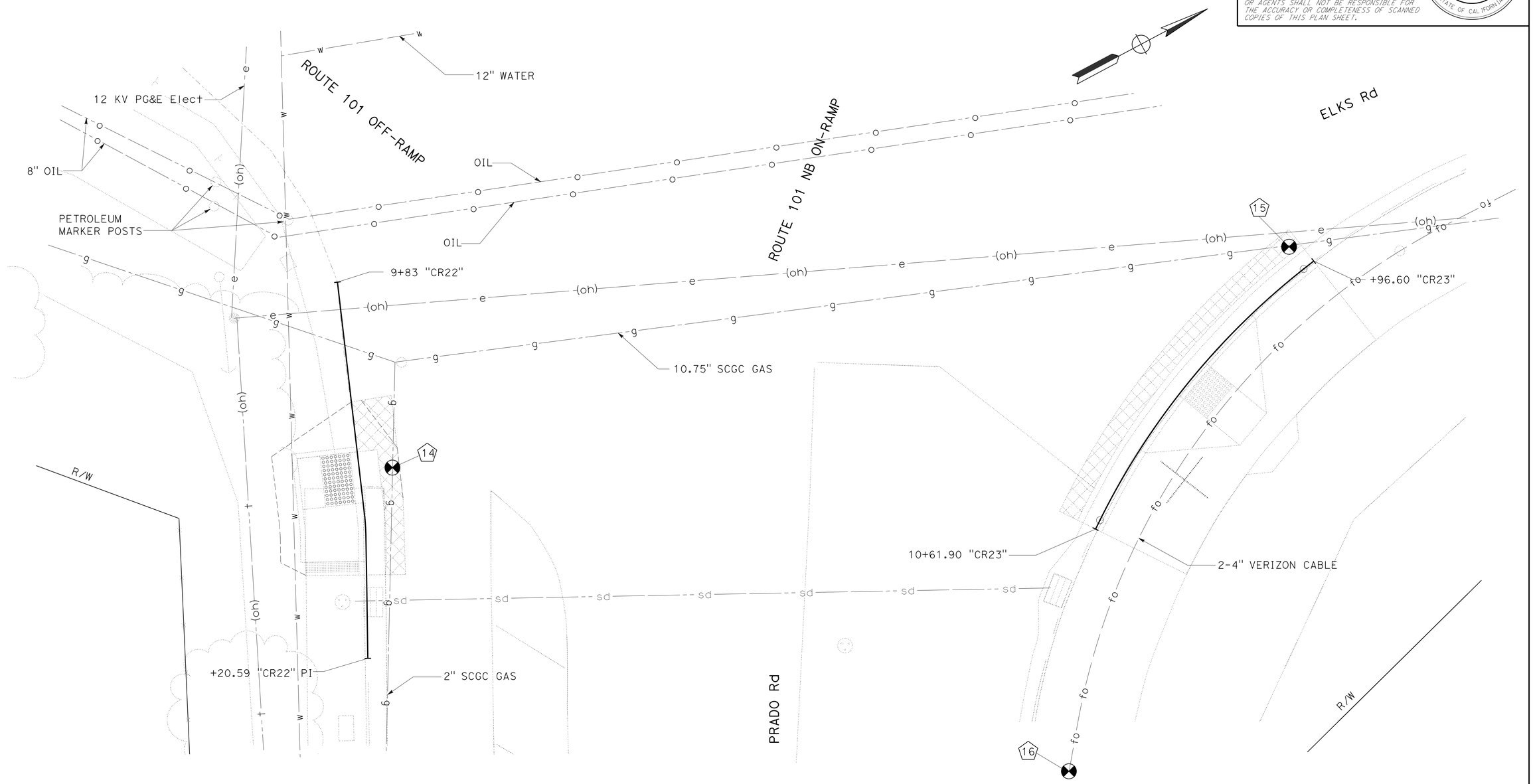
(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
14	SOUTHERN CALIFORNIA GAS COMPANY	2" GAS LINE	10+01.96	3.3' Lt	133.74	57"
15	SOUTHERN CALIFORNIA GAS COMPANY	10.75" HP GAS	10+95.55	2.6' Lt	133.81	70"
16	VERIZON	2-4" FIBER OPTIC			134.51	44"



CURB RAMP No. 22, PM 26.7
CASE C MODIFIED
ROUTE 101 OFF-RAMP AND PRADO Rd, SAN LUIS OBISPO
(SE CORNER)

CURB RAMP No. 23, PM 26.7
CASE D
ELKS Rd AND PRADO Rd, SAN LUIS OBISPO
(NE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-10

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans®

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	41	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

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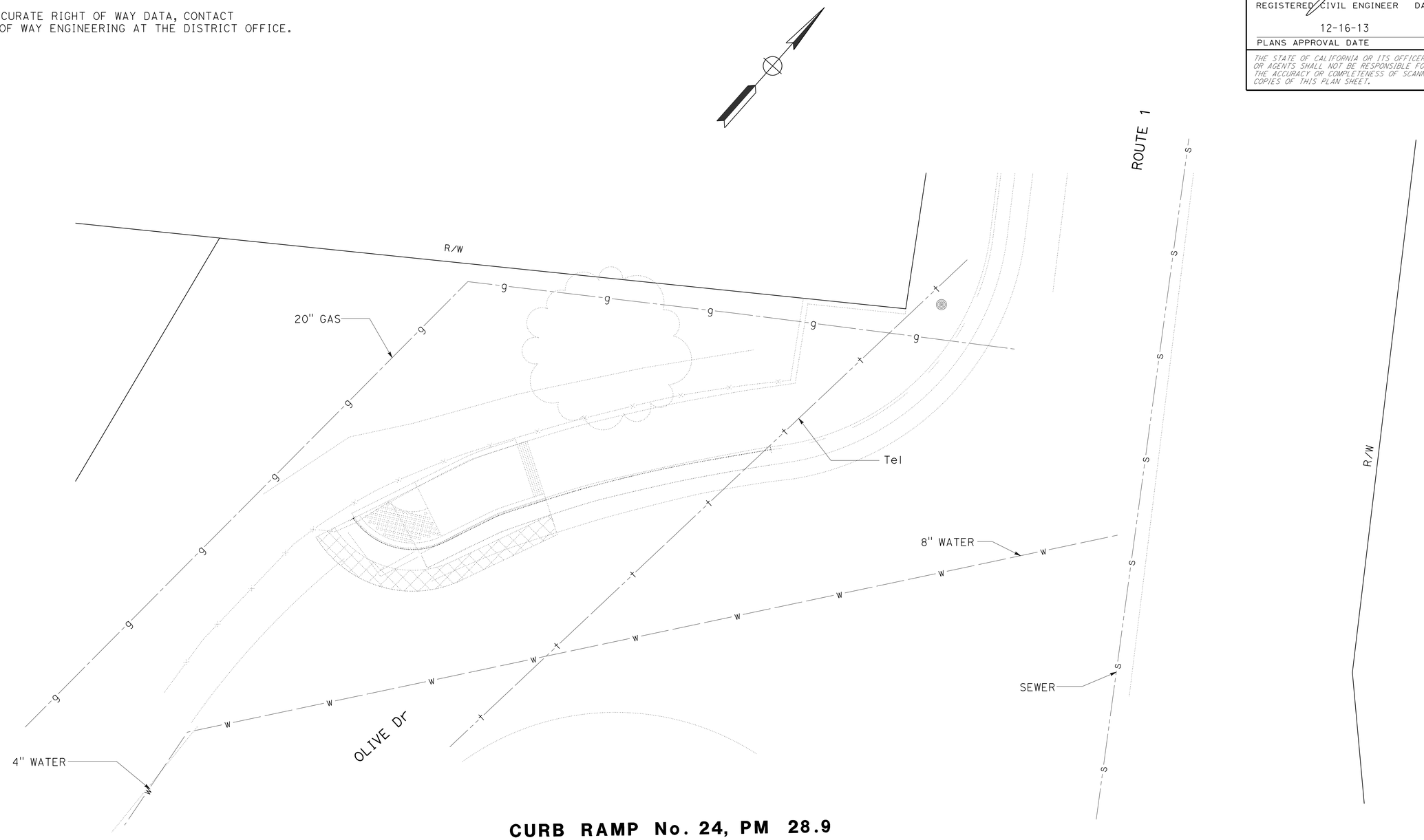
NOTE:

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



CURB RAMP No. 24, PM 28.9
CASE CM
ROUTE 101 AND OLIVE St, SAN LUIS OBISPO
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-11

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	42	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

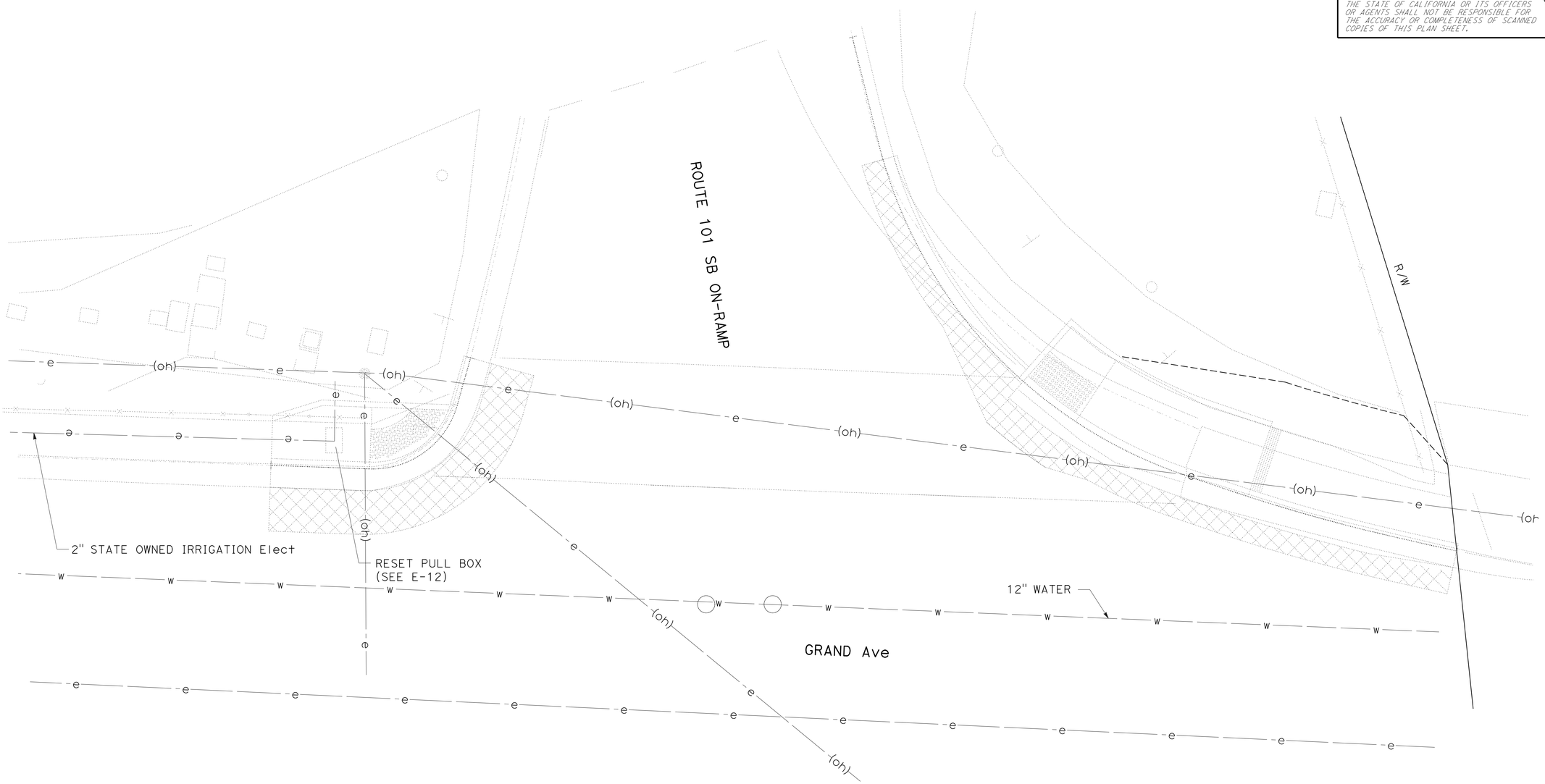
12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 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.

NOTE:

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



CURB RAMP No. 25, PM 29.7
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND GRAND Ave, SAN LUIS OBISPO
(SE CORNER)

CURB RAMP No. 26, PM 29.7
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND GRAND Ave, SAN LUIS OBISPO
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-12

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	43	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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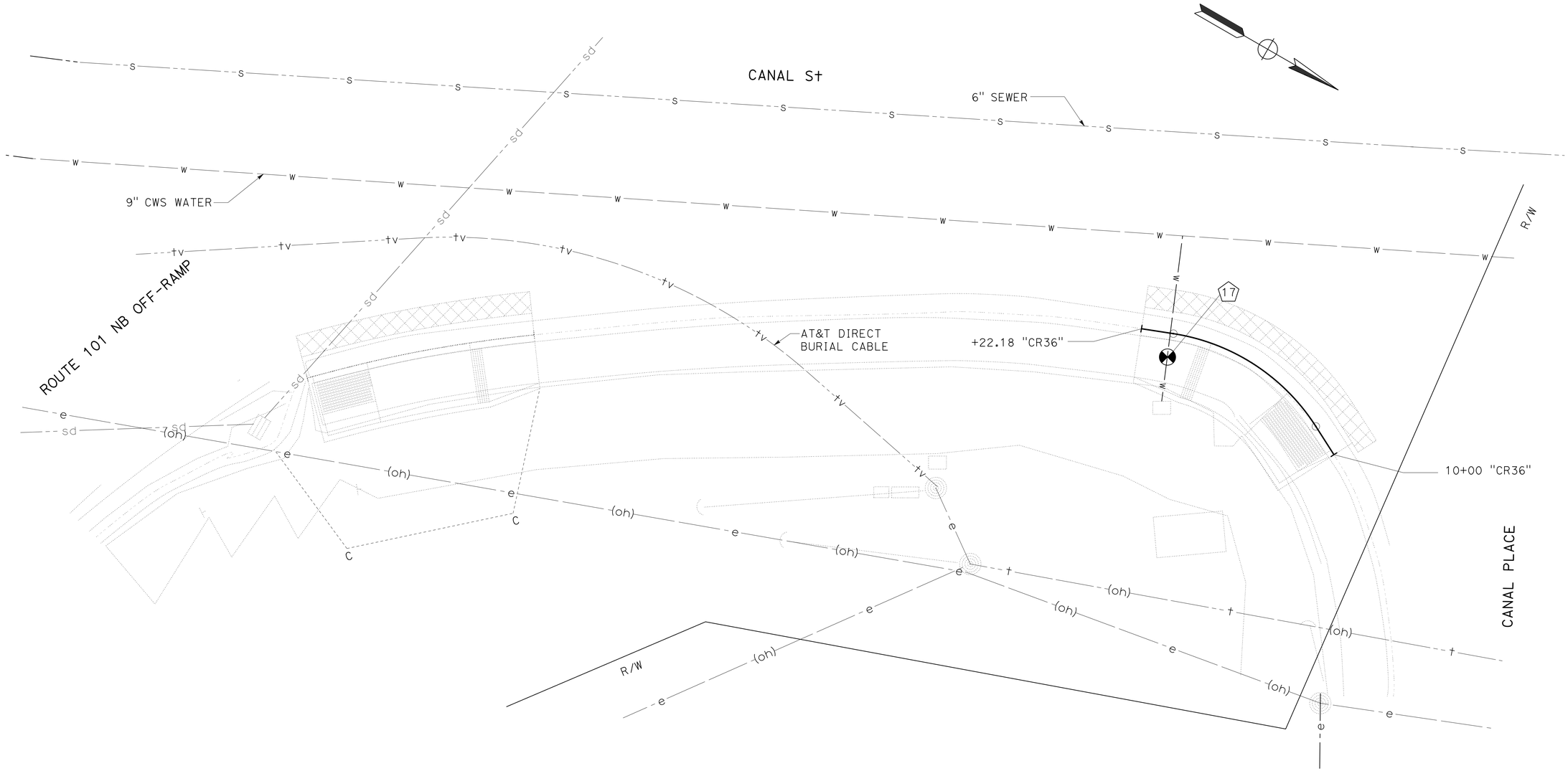
NOTE:

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

POTHOLING INFORMATION

X	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
17	CA WATER SERVICE CO	2" WATER LINE	10+19.42	2.21 Lt	308.07	31"



CURB RAMP No. 35, PM 40.6
CASE C MODIFIED
ROUTE 101 NB OFF-RAMP AND CANAL St, KING CITY
(SE CORNER)

CURB RAMP No. 36, PM 40.6
CASE C MODIFIED
CANAL St AND FAIRGROUNDS Rd, KING CITY
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-13

SCALE: 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	44	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA

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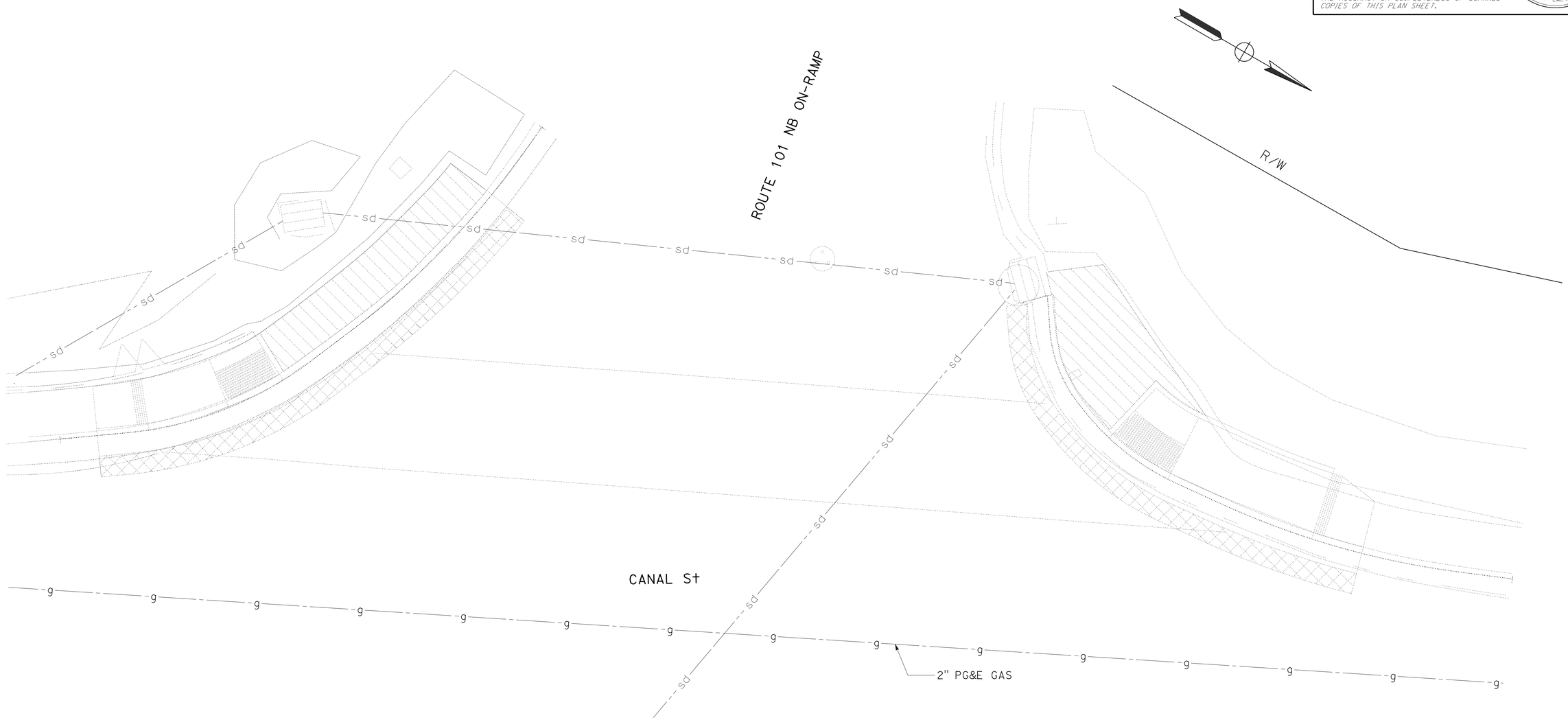

CURB RAMP No. 37, PM 40.6
CASE C MODIFIED
ROUTE 101 NB ON-RAMP AND CANAL St, KING CITY
(NW CORNER)

CURB RAMP No. 38, PM 40.6
CASE C MODIFIED
ROUTE 101 NB ON-RAMP AND CANAL St, KING CITY
(NE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-14

SCALE: 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	45	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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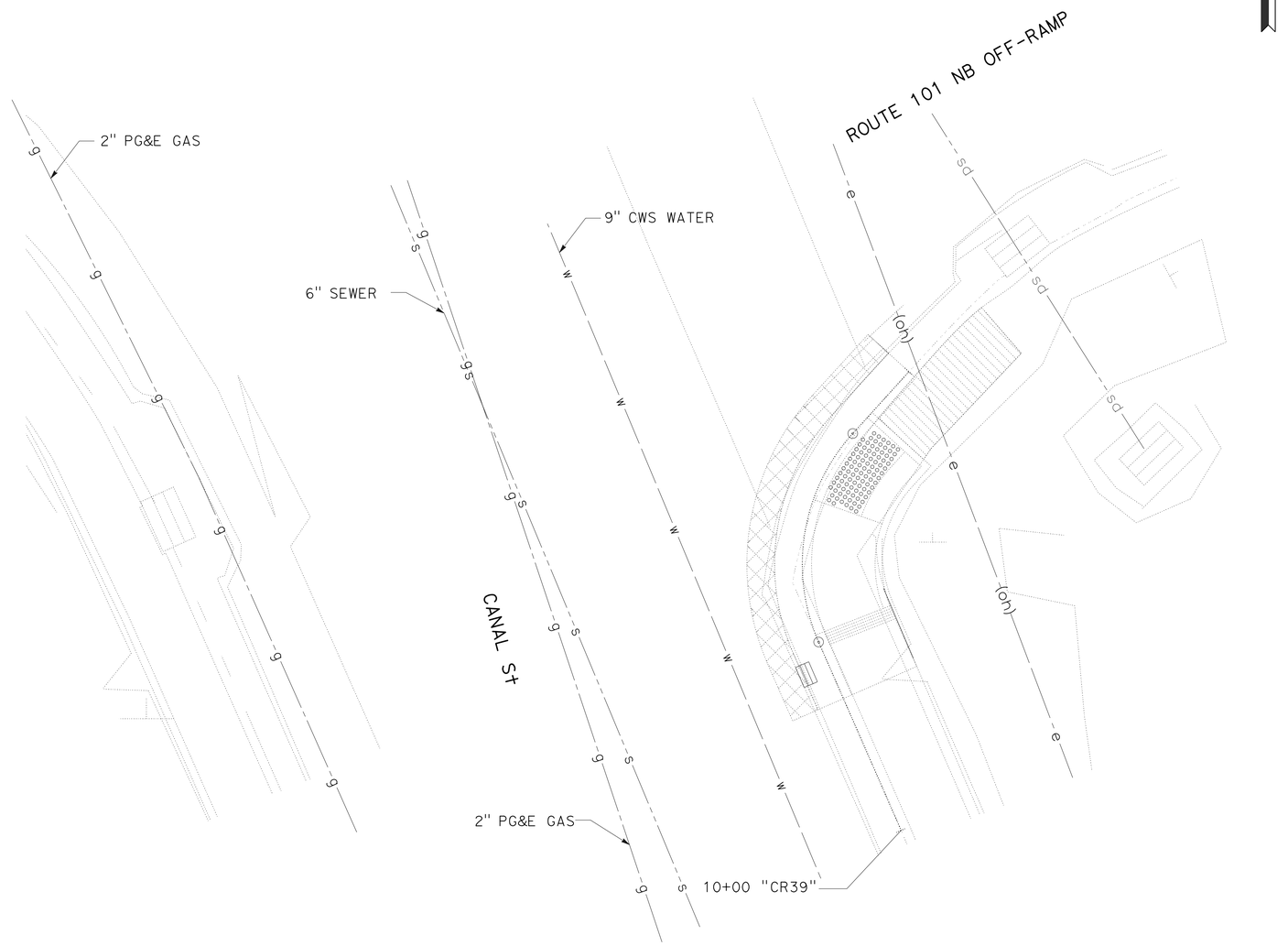

CURB RAMP No. 39, PM 40.6
CASE C MODIFIED
ROUTE 101 NB OFF-RAMP AND CANAL St, KING CITY
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-15

SCALE: 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	46	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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FOR ACCURATE RIGHT OF WAY DATA, CONTACT
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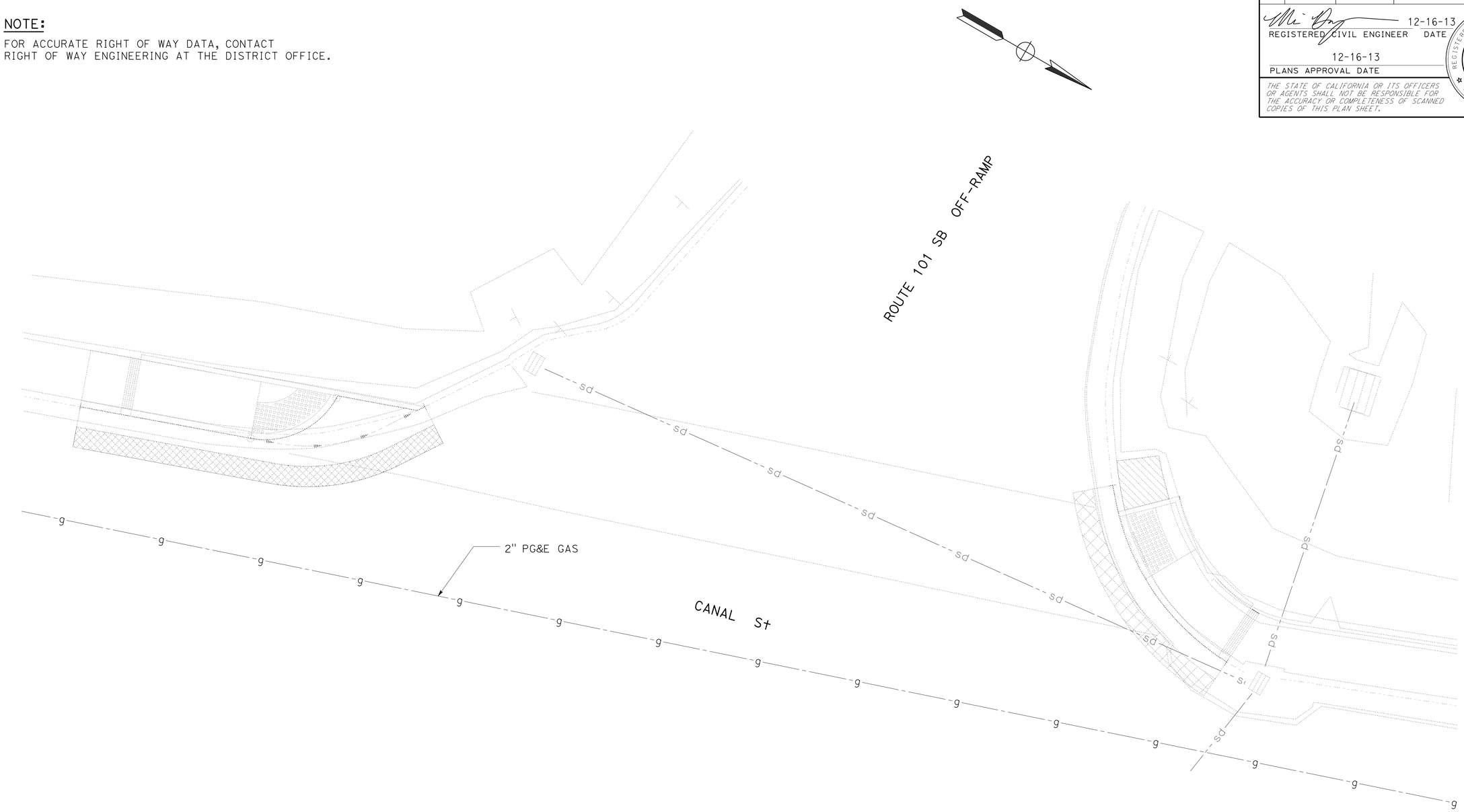

CURB RAMP No. 40, PM 40.6
CASE CM
ROUTE 101 SB OFF-RAMP & CANAL St, KING CITY
(NW CORNER)

CURB RAMP No. 41, PM 40.6
CASE C MODIFIED
ROUTE 101 SB OFF-RAMP & CANAL St, KING CITY
(NE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=5'

U-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	47	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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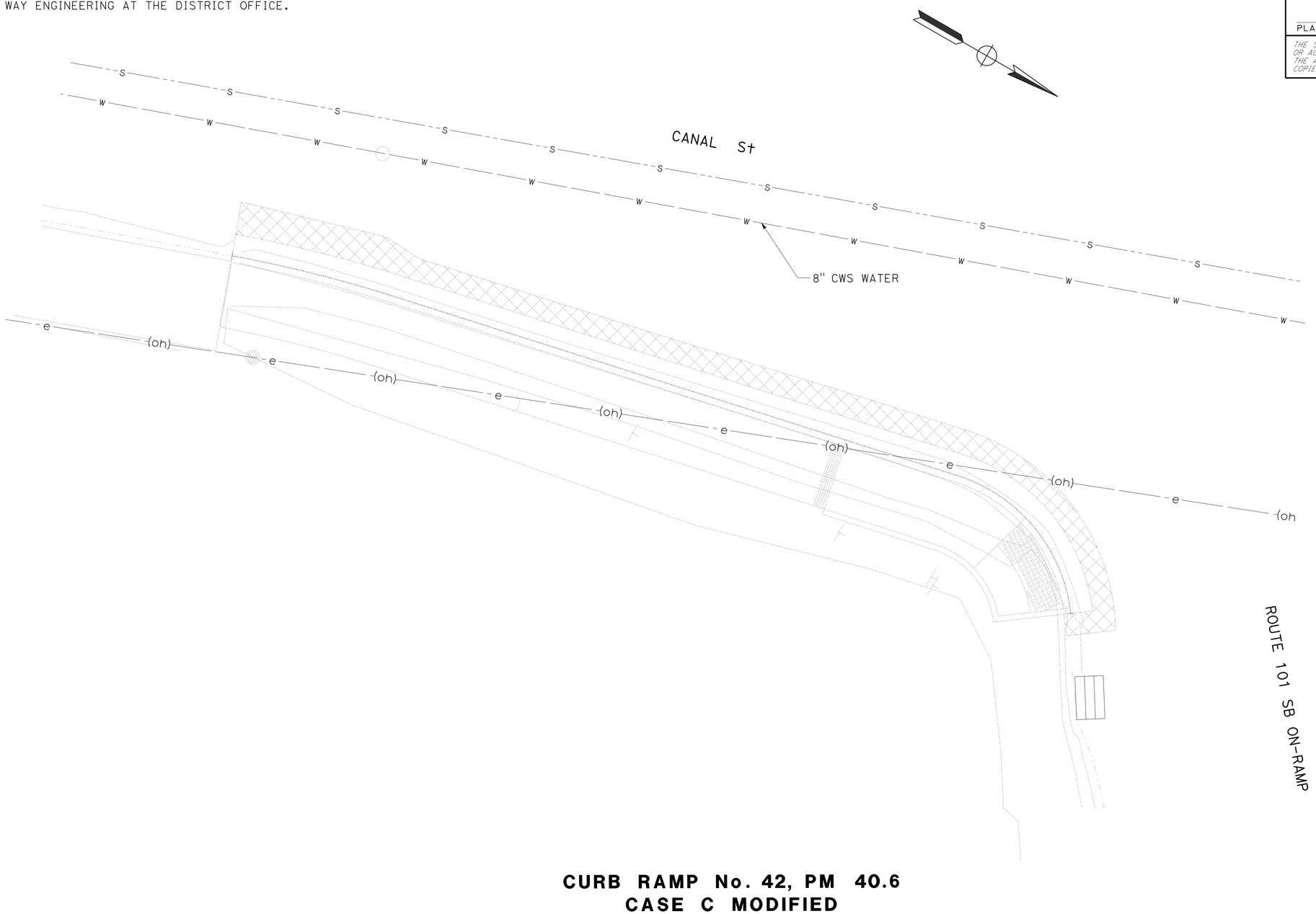
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURB RAMP No. 42, PM 40.6
CASE C MODIFIED
ROUTE 101 SB ON-RAMP & CANAL ST, KING CITY
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-17

SCALE: 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	48	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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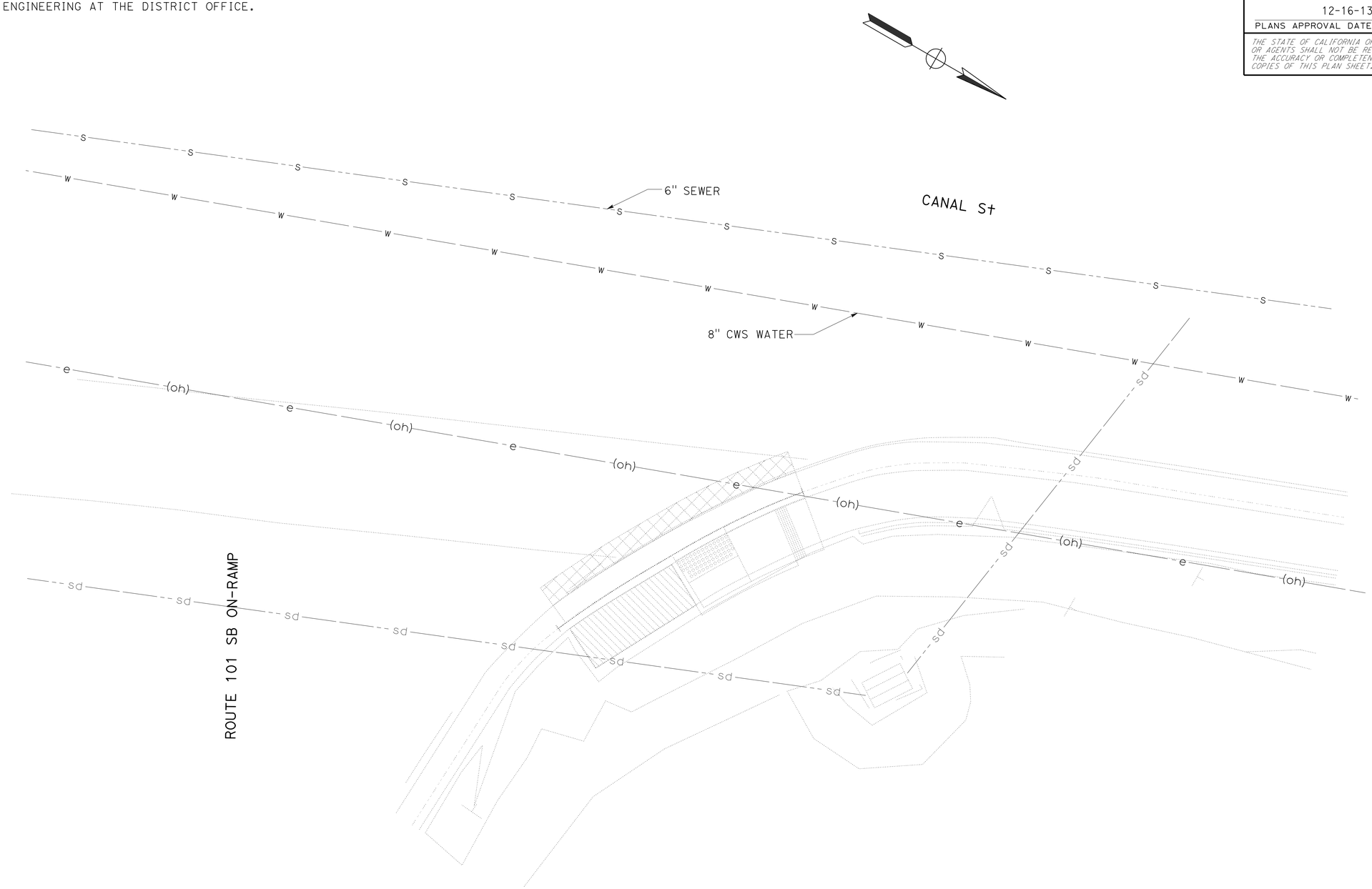

CURB RAMP No. 43, PM 40.6
CASE C MODIFIED
ROUTE 101 SB ON-RAMP AND CANAL St, KING CITY
(SE CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-18

SCALE 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	49	91

12-16-13
REGISTERED CIVIL ENGINEER DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JAMES DAY
No. 66870
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

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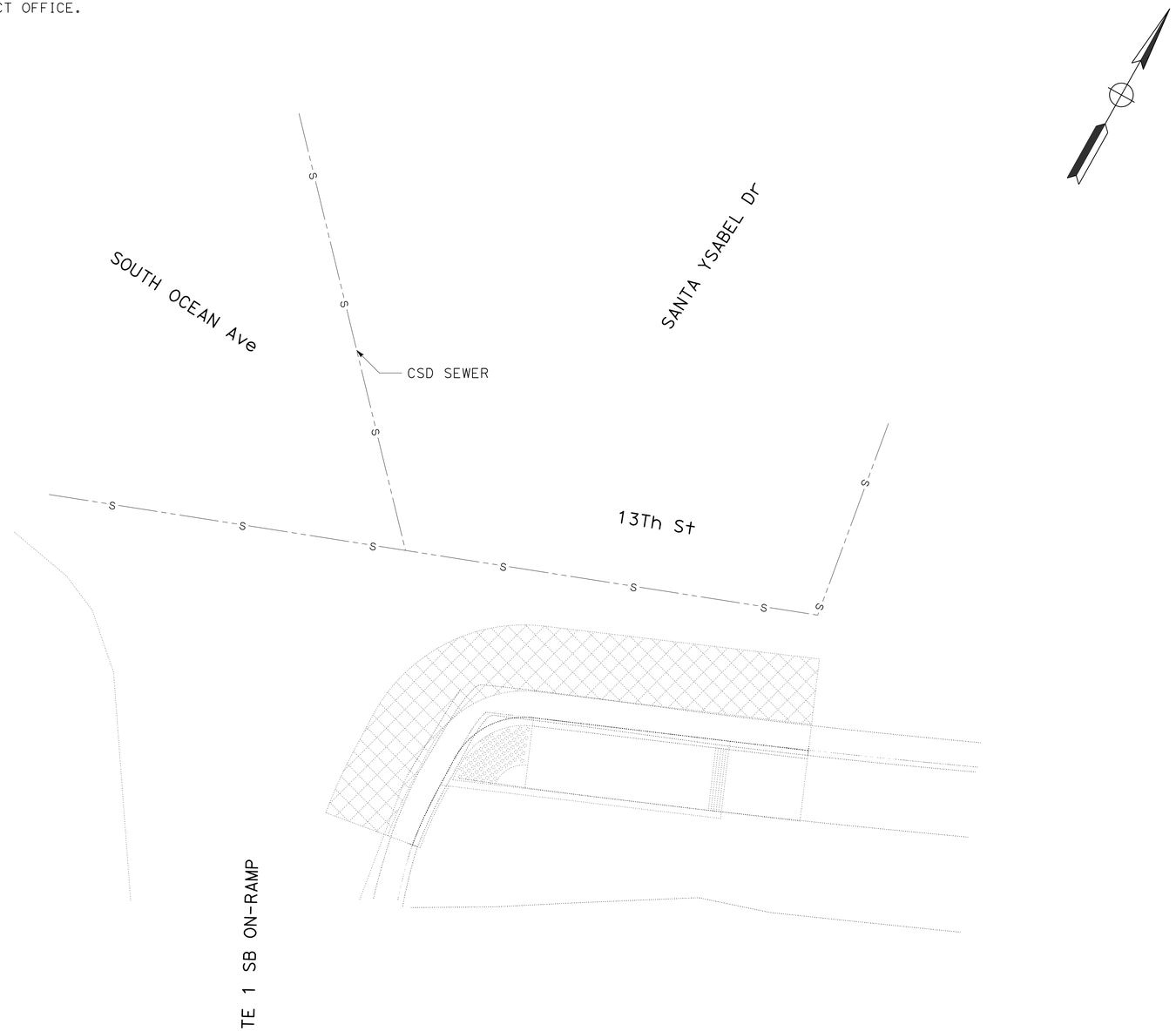


CURB RAMP No. 44, PM 34.9
CASE CM
ROUTE 1 SB ON-RAMP AND 13Th St, CAYUCOS
(SW CORNER)

APPROVED FOR UTILITY INFORMATION ONLY

SCALE 1"=5'

UTILITY PLAN
U-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1,101	Var	50	91

REGISTERED CIVIL ENGINEER 12-16-14 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 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.

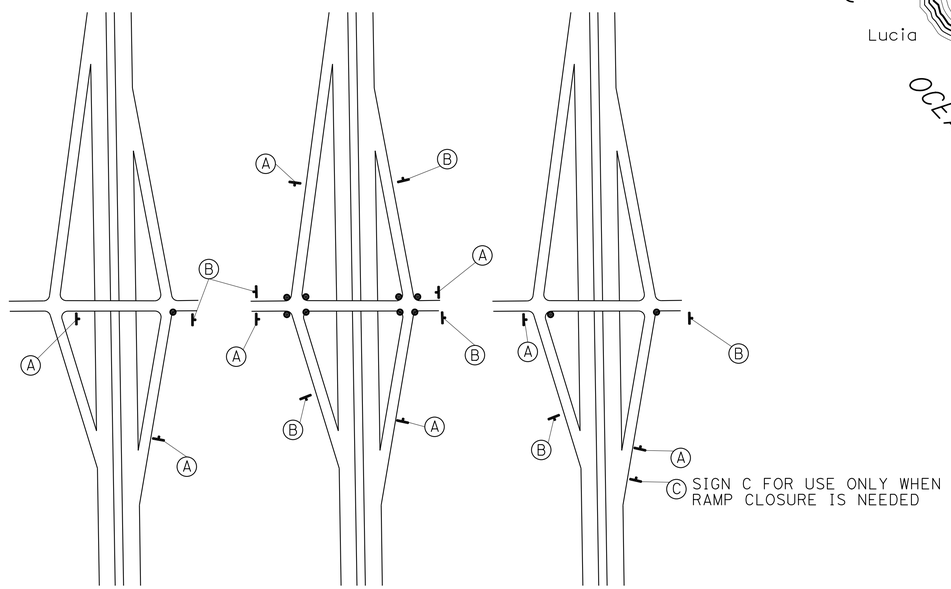
NOTES:

1. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET MIQ-1.
3. BARRICADE INSTALLATION CAN BE USED IN LIEU OF POST.

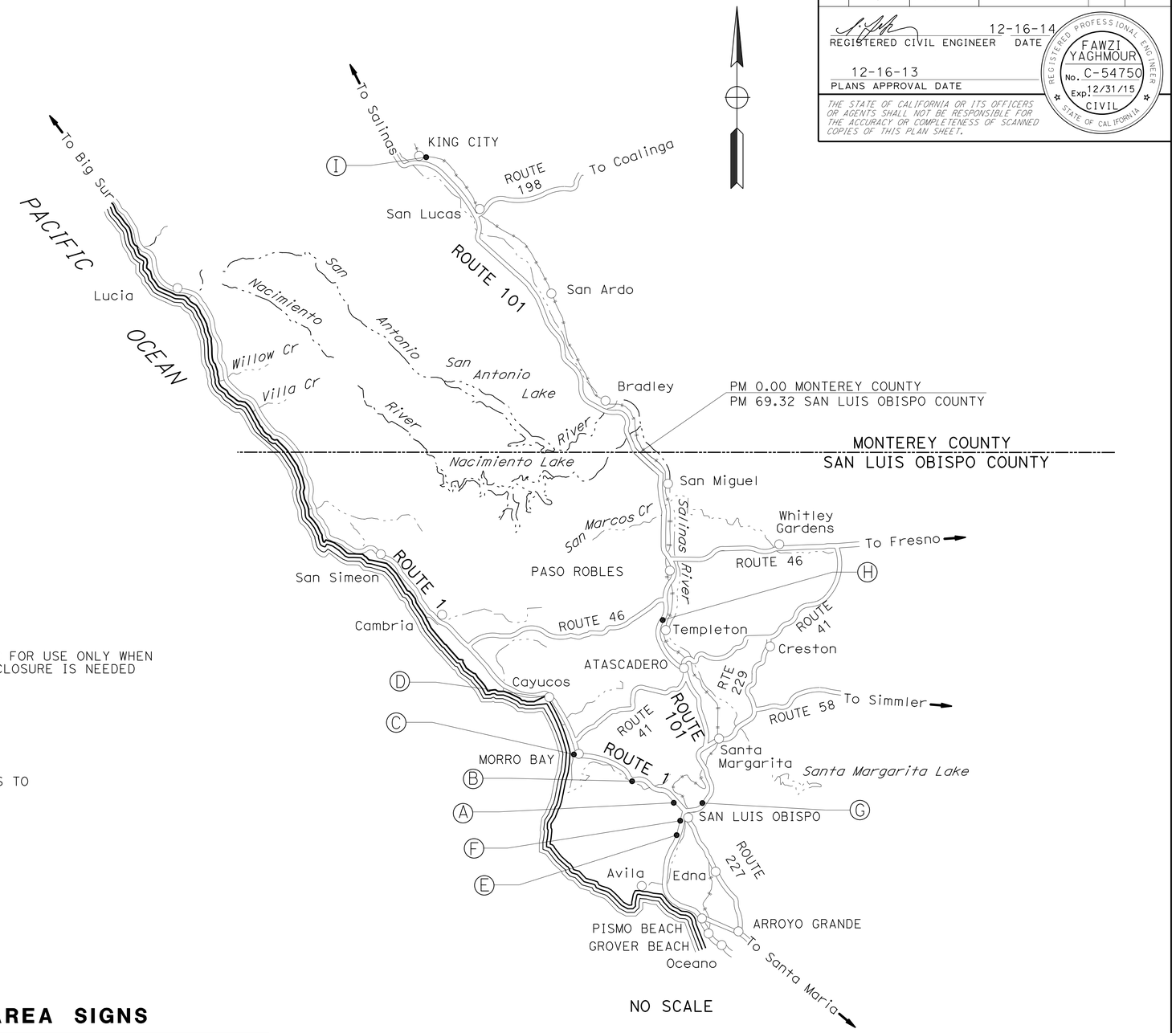
LEGEND:

(X) SIGN NUMBER

ONE POST



TYPICAL CAS LOCATIONS SEE MIQ-1 FOR EXACT LOCATIONS, PLACEMENT OF CAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
(A)	W20-1	C23	36"x36"	ROAD WORK AHEAD	1-4" x 4"	44
(B)	G20-2	C14	36"x18"	END ROAD WORK	1-4" x 4"	34
(C)		SC6-4 (CA)	60"x48"	ADVANCE RAMP CLOSURE	1-6" x 6"	7

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FAWZI YAGHMOUR
CHECKED BY: GURMIT GILL
REVISED BY
DATE REVISED

LAST REVISION 12-06-13
DATE PLOTTED => 25-MAR-2014
TIME PLOTTED => 08:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1,101	Var	51	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

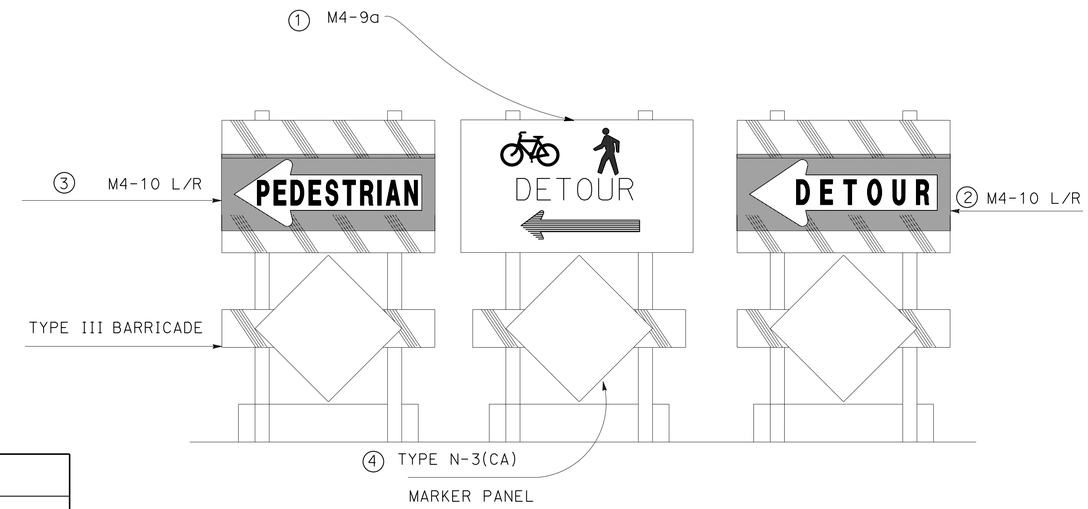
SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
1	M4-9A		48"X18"	DETOUR, BiKE AND PEDESTRIAN	BARRICADE MOUNTED	45
2	M4-10		48"X18"	RIGHT OR LEFT ARROW	BARRICADE MOUNTED	45
3	M4-10		48"X18"	RIGHT OR LEFT ARROW	BARRICADE MOUNTED	45
4		TYPE N-1 MARKER	18"X18"	YELLOW TYPE N-1 MARKER	BARRICADE MOUNTED	135
TOTAL						270

TYPE III BARRICADE

LOCATION	TYPE III BARRICADE
	EA
45 LOCATIONS	135
TOTAL	135

CHANNELIZER

LOCATION	CHANNELIZER (SURFACE-MOUNTED)
	EA
SUFACE MOUNTED CHANNEALIZER	270
TOTAL	270



DETAIL A

LOCATIONS OF CONSTRUCTION

LOCATION	CURB RAMP No.	ROUTE	POST MILE	DESCRIPTION
A	1-2	1	18.0	ROUTE 1 AND WESTMONT Ave (NW,SW CORNER), SAN LUIS OBISPO
B	3-4	1	22.2	ROUTE 1 AND DAIRY CREEK Rd (NE,SE CORNER), SAN LUIS OBISPO
	5-6	1	22.2	ROUTE 1 AND HOLLISTER Ave (NW,SW CORNER), SAN LUIS OBISPO
	7-8	1	22.7	ROUTE 1 AND EDUCATION Dr (NE,SE CORNER), SAN LUIS OBISPO
	9-10	1	22.7	ROUTE 1 AND CUESTA COLLEGE Rd (NW,SW CORNER), SAN LUIS OBISPO
C	11-12	1	29.6	RADCLIFF AND MAIN St (SW,SE CORNER), MORRO BAY
	13-14	1	29.5	ROUTE 1 SB ON RAMP AND MAIN St (SW,SE CORNER), MORRO BAY
D	15-18	1	33.8	ROUTE 1 AND OLD CREEK Rd (NW,SW,NE,SE CORNER), CAYUCOS
	19	1	35.9	ROUTE 1 NB OFF RAMP AND CAYUCOS Dr (SW CORNER), CAYUCOS
	20-21	1	35.9	ROUTE 1 SB ON RAMP AND CAYUCOS Dr (SW,SE CORNER), CAYUCOS
	44	1	34.9	ROUTE 1 SB ON RAMP AND 13Th St (SW CORNER), CAYUCOS
	45	1	34.9	ROUTE 1 NB OFF RAMP AND 13Th St (SE CORNER), CAYUCOS
E	22	101	26.7	ROUTE 101 OFF RAMP AND PRADO Ave (SE CORNER), SAN LUIS OBISPO
	23	101	26.7	ELKS Rd AND PRADO Rd (NE CORNER), SAN LUIS OBISPO
F	24	101	28.9	ROUTE 101 AND OLIVE St (SW CORNER), SAN LUIS OBISPO
G	25-26	101	29.7	ROUTE 101 SB ON RAMP AND GRAND Ave (SE,SW CORNER), SAN LUIS OBISPO
H	27	101	52.4	ROUTE 101 NB OFF RAMP AND MAIN St (SW CORNER), TEMPLETON
	28	101	52.4	ROUTE 101 SB ON RAMP AND MAIN St (SE CORNER), TEMPLETON
I	29	101	37.1	ROUTE 101 NB ON RAMP AND WILDHORSE Rd (NW CORNER), KING CITY
	30	101	37.1	ROUTE 101 NB OFF RAMP AND WILDHORSE Rd (SW CORNER), KING CITY
	31	101	37.1	ROUTE 101 SB OFF RAMP AND WILDHORSE Rd (NE CORNER), KING CITY
	32	101	37.1	ROUTE 101 SB ON RAMP AND WILDHORSE Rd (SE CORNER), KING CITY
	33	101	39.9	ROUTE 101 NB ON RAMP AND FIRST St (NW CORNER), KING CITY
	34	101	39.9	ROUTE 101 SB OFF RAMP AND FIRST St (NE CORNER), KING CITY
	36	101	40.6	CANAL St AND FAIRGROUNDS Rd (SW CORNER), KING CITY
	35,39	101	40.6	ROUTE 101 NB OFF RAMP AND CANAL St (SE,SW CORNER), KING CITY
	37-38	101	40.6	ROUTE 101 NB ON RAMP AND CANAL St (NW,NE CORNER), KING CITY
	40-41	101	40.6	ROUTE 101 SB OFF RAMP AND CANAL St (NW,NE CORNER), KING CITY
	42-43	101	40.6	ROUTE 101 SB ON RAMP AND CANAL St (SW,SE CORNER), KING CITY

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN AND QUANTITIES

(DETOUR LAYOUT FOR 45 LOCATIONS)

NO SCALE

MIQ-1

REVISED BY | DATE REVISED
FAWZI YAGHMOUR | GURMIT GILL
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 12-06-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1,101	Var	52	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 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.

PAVEMENT DELINEATION QUANTITIES

COUNTY	CURB RAMP No.	ROUTE	POSTMILE	CITY	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING		THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKER (RETRO-REFLETIVE)	OBJECT MARKER	REMOVE MARKER	DESCRIPTION/ COMMENTS
						PLACE	REMOVE	DETAIL 27B	DETAIL 25A				
								4" WHITE	4" YELLOW	TYPE H	TYPE K-1 (OM2-1H)	TYPE K-1 (OM2-1H)	
						SQFT	SQFT	LF	LF	EA	EA	EA	
SLO	1-2	1	18.0	SAN LUIS OBISPO	WESTMONT DRIVE								
SLO	3-6	1	22.2	CUESTA COLLEGE	HOLLISTER AVE	537	537				2	2	CROSSWALK
SLO	7-10	1	22.7	CUESTA COLLEGE	CUESTA COLLEGE Rd	402	402						CROSSWALK
SLO	11-12	1	29.6	MORRO BAY	MAIN St AT RADCLIFF	163	163						CROSSWALK
SLO	13-14	1	29.6	MORRO BAY	MAIN St/SB RAMPS	7	7						BIKE SYMBOL
SLO	15-18	1	R34.7	CAYUCOS	OLD CREEK ROAD						1	1	
SLO	19	1	R35.9	CAYUCOS	CAYUCOS Dr/NB RAMPS				20	2			
SLO	20-21	1	R35.8	CAYUCOS	CAYUCOS Dr/SB RAMPS			100	100	5			
SLO	22-23	1	26.7	SAN LUIS OBISPO	PRADO RD/ELKS LANE								
SLO	24	1	28.9	SAN LUIS OBISPO	OLIVE St/SB RAMPS								
SLO	25-26*	101	29.7	SAN LUIS OBISPO	GRAND Ave SB-ON RAMP	124	124	30					CROSSWALK
SLO	27-28	101	52.4	TEMPLETON	MAIN St/NB,SB RAMPS								
SLO	29-32	101	40.6	KING CITY	WILDHORSE/NB,SB RAMPS			70					
Mon	33-34	101	39.9	KING CITY	FIRST St/SB RAMPS								
Mon	35-37	101	40.6	KING CITY	CANAL St/NB RAMPS	158	158						CROSSWALK
Mon	38-39*	101	40.6	KING CITY	CANAL St/NB RAMPS	170	170						CROSSWALK
Mon	40-41	101	40.6	KING CITY	CANAL St/SB RAMPS	172	172	50	50	2			BIKE LANE (WORD)/ CROSSWALK
Mon	42-43*	101	40.6	KING CITY	CANAL St/SB RAMPS	170	170	50	50	2			CROSSWALK
SLO	44-45	1	34.85	CAYUCOS	13th St	11	11	25	25	2			LIMIT LINE
SLO	7-8	1	22.7	SAN LUIS OBISPO	EDUCATION Dr						2	2	
SLO	3-4	1	22.2	SAN LUIS OBISPO	DAIRY CREEK Rd						2	2	
					SUB-TOTAL	1914	1914	325.0	245.0	13			
					TOTAL	1914	1914	570.0		13	7	7	

NOTE: *YELLOW THERMOPLASTIC PAVEMENT MARKING

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FAWZI YAGHMOUR
CHECKED BY: GURMIT GILL
REVISED BY
DATE REVISED

LAST REVISION 12-06-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 19:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1,101	Var	53	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 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.

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN CODE	RELOCATE ROADSIDE SIGN	RESET ROADSIDE SIGN	REMARKS
			EA	EA	
C6		R1-1		1	STOP
C11		G92 (CA)		1	FREEWAY ENTRANCE
		G26-2 (CA)			ROUTE 1
		M3-3			SOUTH
		M6-2			DIRECTION ARROW
C17		W12-2	1		BRIDGE CLEARANCE
C21		SW24-2		1	101 N. WITH ARROW
C25		R3-2	1		NO LEFT TURNS
TOTAL			2	3	

NOTE: RELOCATE OR SET ROADSIDE SIGNS, THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER

SIGN QUANTITIES
SQ-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FAWZI YAGHMOUR
CHECKED BY: DAVID BLACK
REVISED BY
DATE REVISED

LAST REVISION 12-16-13 | DATE PLOTTED => 25-MAR-2014 | TIME PLOTTED => 08:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1,101	Var	54	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 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.

ROADWAY QUANTITIES

CURB RAMP No.	CORNER	LOCATION			MINOR CONCRETE (Misc CONSTRUCTION)														REMOVE CONCRETE							
					CURB (TYPE A1-6)	CURB (TYPE A2-6)	CURB (TYPE A2-8)	CURB RAMP/SIDEWALK (DEPTH=4")	RETAINING CURB	DETECTABLE WARNING SURFACE	PLACE HMA DIKE (TYPE A)	PLACE HMA DIKE (TYPE E)	PLACE HMA (MISCELLANEOUS AREA)	HOT MIX ASPHALT (TYPE A)	REPLACE AC SURFACING	IMPORTED BORROW	ROADWAY EXCAVATION	CHAIN LINK FENCE (TYPE CL-4)	CONCRETE CURB	CURB RAMP/SIDEWALK	REMOVE AC DIKE	REMOVE FENCE	PRE/POST CONSTRUCTION SURVEYS	COMPOST **	Temp DRAINAGE INLET PROTECTION	REMOVE HANDRAIL
		ROUTE	PM*	CROSS St	CY	CY	CY	CY	CY	SQFT	LF	LF	SQYD	TON	CY	CY	CY	LF	CY	CY	LF	LF	EA	SQFT	EA	LF
1	NW	1	18	WESTMONT Ave		2.36		1.11	0.24	12					3.44				2.36	0.83			1	50		
2	SW	1	18	WESTMONT Ave		2.58		1.24	0.25	12					4.32				2.60	0.85			1	50		
3	NE	1	22.2	DAIRY CREEK Rd	0.37			1.30	0.71	32					1.11	8.21				0.25	21		1	200		
4	SE	1	22.2	DAIRY CREEK Rd				0.34	0.35	18					0.28	3.47				0.25	8		1	67		
5	NW	1	22.2	HOLLISTER Ave				0.76	0.45	46		5		0.13	0.83	6.17				0.23	15		1	88		
6	SW	1	22.2	HOLLISTER Ave				0.35	0.35	18		6		0.16	1.00	2.01				0.20	6			72		
7	NE	1	22.7	EDUCATION Dr				0.72	0.48	37		11		0.29	1.94	1.54				0.25	18			87		
8	SE	1	22.7	EDUCATION Dr				0.35	0.35	37	16		1.54	0.69	1.80	6.18					10		1	237		
9	NW	1	22.7	CUESTA COLLEGE Rd				0.34		18		11		0.08	1.24					0.25	11		1	48		
10	SW	1	22.7	CUESTA COLLEGE Rd				0.33		18		6		0.05	0.45						12		1	50		
11	SW	1	29.6	MAIN St/RADCLIFF Ave			2.87	2.68	0.65	17					1.67			44	2.87	3.00			1	50	1	42
12	SE	1	29.6	MAIN ST/RADCLIFF Ave			3.19	3.32	0.48	18					1.96				3.32	4.42				50	1	
13	SW	1	29.5	MAIN St		1.83		2.95	0.24	17					1.80				1.83	3.11			1	50		
14	SE	1	29.5	MAIN ST			0.89	0.53	0.22	14	8			0.11	0.94				1.15	0.44	3		1	50		
15	NW	1	33.8	OLD CREEK Rd				0.33	0.32	19		13	5.13	1.84	1.96	0.44				0.46	13		1	27		
16	SW	1	33.8	OLD CREEK Rd				0.33	0.35	17		12		0.31	1.78	3.13					12		1	151		
17	NE	1	33.8	OLD CREEK Rd				3.46		34					1.81	2.06				0.28			1	296		
18	SE	1	33.8	OLD CREEK Rd				0.40	0.39	23		13		0.34	1.46						13		1	50		
19	SW	1	35.9	CAYUCOS Dr		4.01		4.14	0.37	23					5.31				4.01	4.40				50		
20	SW	1	35.9	CAYUCOS Dr		2.01		2.24	0.39	19					2.00		61.7				14			681	1	
21	SE	1	35.9	CAYUCOS Dr		1.30		1.05	0.37	20					1.56				1.30	1.14			1	50	1	
22	SE	101	26.7	PRADO Rd		0.76		0.77	0.36	16					0.53				0.53	0.63			1	50	1	
23	NE	101	26.7	PRADO Rd			2.23	3.87		13					1.34				2.23	3.91				50	2	
24	SW	101	28.9	OLIVE Dr		1.56		1.43	0.37	20					1.13				1.18	1.75				50		
25	SE	101	29.7	GRAND Ave			1.59	0.82	0.39	21					2.17				1.53	0.79		9		50		
26	SW	101	29.7	GRAND Ave			2.74	2.93	0.60	18		24		0.62	2.94				1.85	2.43		3	1	50	1	
27	SW	101	52.4	MAIN St			1.94	1.53	0.56	18					1.46				2.11	1.27			1	50	2	
28	SE	101	52.4	MAIN St			2.00	1.59	0.44	23					1.54				2.55	1.90				50	2	
29	NW	101	37.1	WILDHORSE Rd			1.66	1.47	0.39	34					1.29				1.60	1.05				50	1	
30	SW	101	37.1	WILDHORSE Rd			1.66	1.47	0.40	34					1.78				0.38	1.05			1	50	1	
SUB-TOTAL Q-1					92.18					666	24	101	6.67	4.62	52.84	34.42	61.70	44	68.54		156	12	20	2,904	14	42

* POST MILES APPROXIMATE

** LOCATION TO BE DETERMINED BY THE ENGINEER

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1,101	Var	55	91

REGISTERED CIVIL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES DAY No. 66870 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.

EROSION CONTROL (TYPE 1)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	COMPOST	COMPOST	MEDIUM	135 CY/ACRE

ROADWAY QUANTITIES

CURB RAMP No.	CORNER	LOCATION			MINOR CONCRETE (Misc CONSTRUCTION)														REMOVE CONCRETE							
					CURB (TYPE A1-6)	CURB (TYPE A2-6)	CURB (TYPE A2-8)	CURB RAMP/SIDEWALK (DEPTH=4")	RETAINING CURB	DETECTABLE WARNING SURFACE	PLACE HMA DIKE (TYPE A)	PLACE HMA DIKE (TYPE E)	PLACE HMA (MISCELLANEOUS AREA)	HOT MIX ASPHALT (TYPE A)	REPLACE AC SURFACING	IMPORTED BORROW	ROADWAY EXCAVATION	CHAIN LINK FENCE (TYPE CL-4)	CONCRETE CURB	CONCRETE CURB RAMP/SIDEWALK	REMOVE AC DIKE	REMOVE FENCE	PRE/POST CONSTRUCTION SURVEYS	COMPOST	Temp DRAINAGE INLET PROTECTION	REMOVE HANDRAIL
		ROUTE	PM*	CROSS St	CY	CY	CY	CY	CY	SQFT	LF	LF	SQYD	TON	CY	CY	CY	LF	CY	CY	LF	LF	EA	SQFT	EA	LF
31	NE	101	37.1	WILDHORSE Rd			1.66	1.47	0.40	34					3.06				1.85	1.31			1	50	1	
32	SE	101	37.1	WILDHORSE Rd			1.79	1.32	0.41	31					3.04				1.79	1.15			1	50	1	
33	NW	101	39.9	FIRST St	1.50	4.43		3.22	0.39	22					5.11	2.57			5.20	5.78				50		
34	NE	101	39.9	FIRST St			4.15	2.57	0.67	19					3.13	1.51			4.61	3.98			1	50	2	
35	SE	101	40.6	CANAL ST		1.30		1.21	0.67	16					0.81		3.70		1.24	1.00				235	1	
36	SE	101	40.6	CANAL St		1.36		1.14	0.52	19					0.96				2.30	0.99				50	1	
37	NW	101	40.6	CANAL St			2.93	0.94	0.11	17					1.79	1.38			2.93	2.34				50	2	
38	NE	101	40.6	CANAL St		2.54		1.83	0.56	19					1.70	1.43			2.54	3.03			1	50	1	
39	SW	101	40.6	CANAL St		0	2.17	1.10	0.37	19					1.39	0.59			2.17	1.73				50	1	
40	NW	101	40.6	CANAL St		1.00		2.28	0.63	21					1.37	0.25			2.07	1.75			1	50	1	
41	NE	101	40.6	CANAL St		1.30		0.99	0.41	19					0.89				1.56	1.14				50	1	
42	SW	101	40.6	CANAL St		5.14		5.99	0.58	24					3.85		1.11		3.43	3.26			1	41	1	
43	SE	101	40.6	CANAL St			1.66	0.79	0.35	16					1.04	0.60			1.66	1.33			1	50	1	
44	SW	1	34.9	13TH St		2.13		1.47	0.48	20					3.85				2.18	1.62			1	50		
45	SE	1	34.9	13TH St		1.59		1.12	0.41	29					1.07				1.59	1.32				50		
SUB-TOTAL Q-2					71.05					325					33.06	8.33	4.81		68.85				8	926	14	
SUB-TOTAL Q-1					92.18					666	24	101	6.67	4.62	52.84	34.42	61.70	44	68.54		156	12	20	2,904	14	42
TOTAL					163.23					991	24	101	6.67	4.62	85.90	42.75	66.51	44	137.39		156	12	28	3,830	28	42

*POST MILES APPROXIMATE

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: MICHAEL DAY
REVISED BY
DATE REVISED

LAST REVISION 12-16-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	56	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 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.

LEGEND: (FOR SHEETS E-2 THROUGH E-5)

1. Exist 120/240 V, 1ø, 3-WIRE, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
2. RS Exist MODEL 170E CONTROLLER ASSEMBLY.
3. RC TWO Exist PBA, AND SEAL THE HOLE IN THE POLE SHAFT.
4. RR Exist SNS FROM Exist POLE (a) TO POLE (A).
5. RC TWO Exist PSF MODULES.
6. INSTALL TWO LED COUNTDOWN PSF MODULES.
7. DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY. FURNISH AND INSTALL BBS.

NOTES:

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

ABBREVIATIONS:

PG&E PACIFIC GAS AND ELECTRIC COMPANY

SYMBOLS:

(a) (b) (c) Exist EQUIPMENT DESCRIPTION OR ITEM NUMBERS.

(1) (2) (3) Exist CONDUIT RUN NUMBERS.

POLE AND EQUIPMENT SCHEDULE

	STANDARD			Veh Sig Mtg		Ped Sig Mtg	APS		Lum	SPECIAL REQUIREMENTS
No.	TYPE	SMA	LMA	MAST ARM	POLE		ø	ARROW		
(a)	29A-5-70	55	15	MAT MAS	SV-2-TA	SP-2-T			310 W HPS	RC POLE. 4
(b)	23-3-70	35	15	MAT	SV-3-TB	SP-2-T				3 5 6
(c)	26A-3-70	45		MAT MAS	SV-2-TA	SP-2-T			310 W HPS	3 5 6
(d)	23-3-70	35		MAT	SV-3-TB	SP-2-T				3 5 6
(A)	29A-5-100	55	15	MAT MAS	SV-1-TB	SP-1-T			230 W LED	F=18′ 4
(E)	PBA POST						2	←		
(F)	PBA POST						2	→		
(G)	PBA POST						8	←		
(H)	PBA POST						8	→		
(I)	PBA POST						6	←		
(J)	1-A				TV-1-T	SP-1-T	6	→		
(K)	PBA POST						4	←		
(L)	PBA POST						4	→		

Exist CONDUIT AND CONDUCTOR SCHEDULE

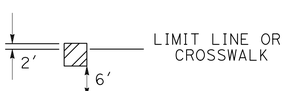
AWG OR CABLE	CONDUCTOR RUN	** 1	** 2	* 3	* 4	* 5
	CONDUIT SIZE	2-3"	3"	3"	3"	3"
#14	ø1	6	6	3	3	3
	ø2	3	3	3	3	
	ø4	3	3	3	3	
	ø5	3	3	3		
	ø6	3	3			3
	ø8	3	3			3
	ø2p	2	2	2	2	
	ø2pp	1	1	1	1	
	ø4p	4	4	2	2	2
	ø4pp	1	1	1	1	1
	ø6p	2	2			2
	ø6pp	1	1			1
	ø8p	2	2	2		
	ø8pp	1	1	1		
	PPB COMMON	1	1	1	1	1
	SPARES	6	6	3	3	3
	TOTAL #14	42	42	25	19	19
#8	LIGHTING			2		2
#10	SIGNAL COMMON	1	1	1	1	1
#2/0	CONTROLLER	2	2			
DLC	ø1	1	1			
	ø2	4	4	4	4	
	ø4	2	2			2
	ø5	1	1	1	1	
	ø6	4	4			
	ø8	1	1	1		
	TOTAL DLC	13	13	6	5	2

* RC ALL EXISTING CONDUCTORS.

** AB Exist CONDUIT.

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION			CONDUIT RUN NUMBER AND SIZE					
CABLE TYPE	POLE	PHASE	1	2	3	4	5	6
			2-4"	2-4"	3"	3"	3"	3"
VEH-PED 12CSC	(A)	1,6,8,6p	2	2			2	
	(b)	5,6,8,6p,8P	2	2				
	(c)	2,4,5,2P,8P	2	2	2			
	(d)	1,2,4,2P,4P	2	2			2	2
	(E)	2	1	1			1	1
	(F)	2	1	1	1			
	(G)	8	1	1	1			
	(H)	8	1	1				
	(I)	6	1					
	(J)	4,50L,4P / 6	1 / 1	1 / 1			1 / 1	
	(K)	4	1	1			1	
	(L)	4	1	1			1	1
PPB 3CSC	TOTAL		9 / 8	9 / 7	2 / 2	0 / 0	5 / 4	2 / 2
AWG	CIRCUIT							
#8	LIGHTING				2		2	
#2	SIGNAL S		2	2				
#6	SIC		1	1				
DETECTORS-TYPE B DLC								
PHASE								
ø1			2	2				
ø2			2	2	2	2		
ø2 MID			1	1	1	1		
ø2 FAR			2	2	2	2		
ø4			4	4			4	
ø5			2	2	2	2		
ø6			2	2				
ø6 MID			1	1				
ø6 FAR			1	1				
ø8			2	2				
	TOTAL		19	19	7	7	4	0



TYPICAL DETAIL C AND D LOOP COMBINATION

(LOCATION B CURB RAMPS 3-6)

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

NO SCALE

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	57	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

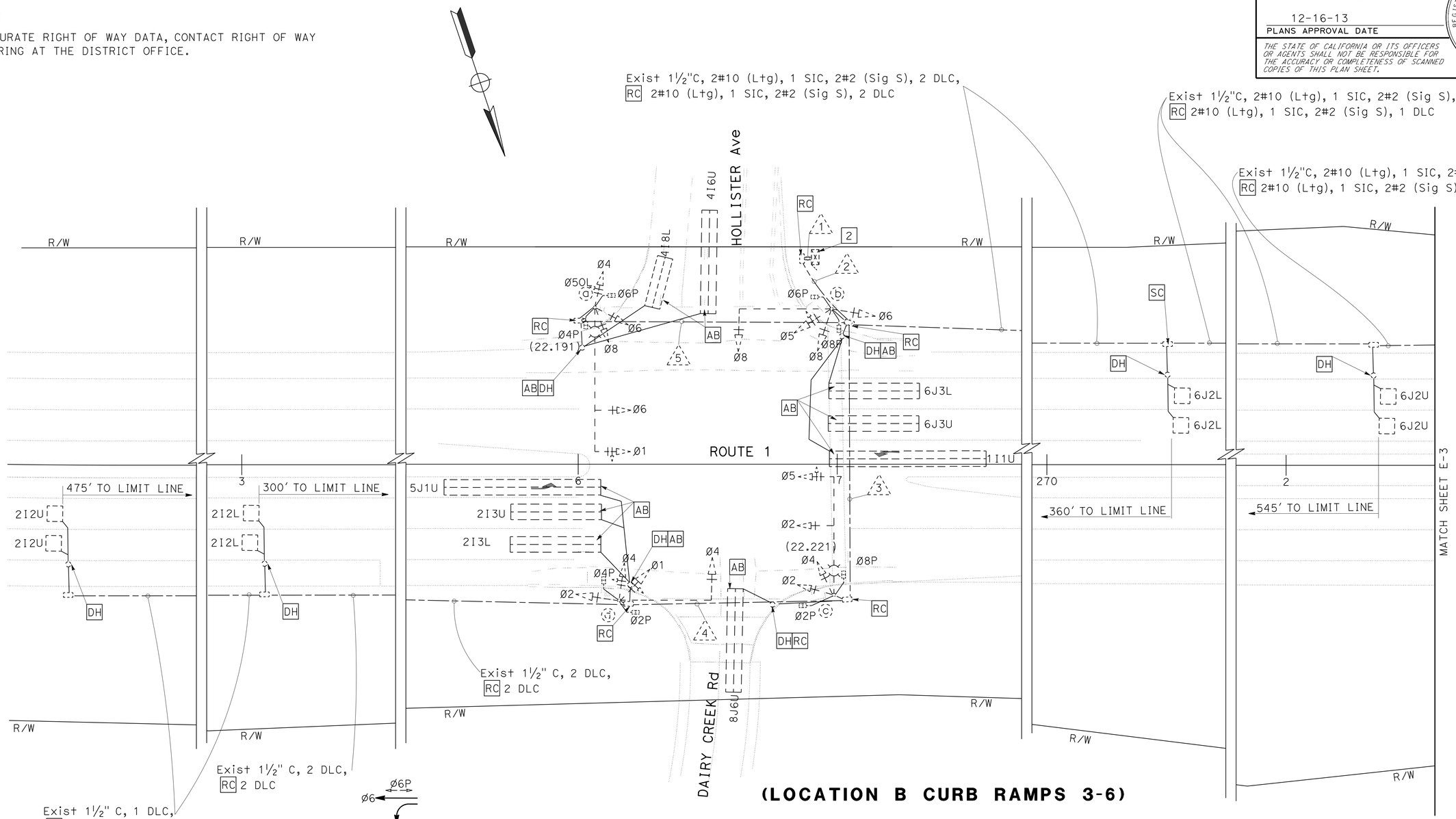
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

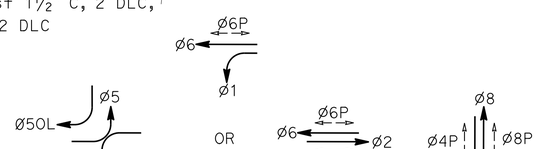
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND: (SEE SHEET E-1)

NOTES:

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





PHASE DIAGRAM
STEADY DEMAND SEQUENCE

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	58	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

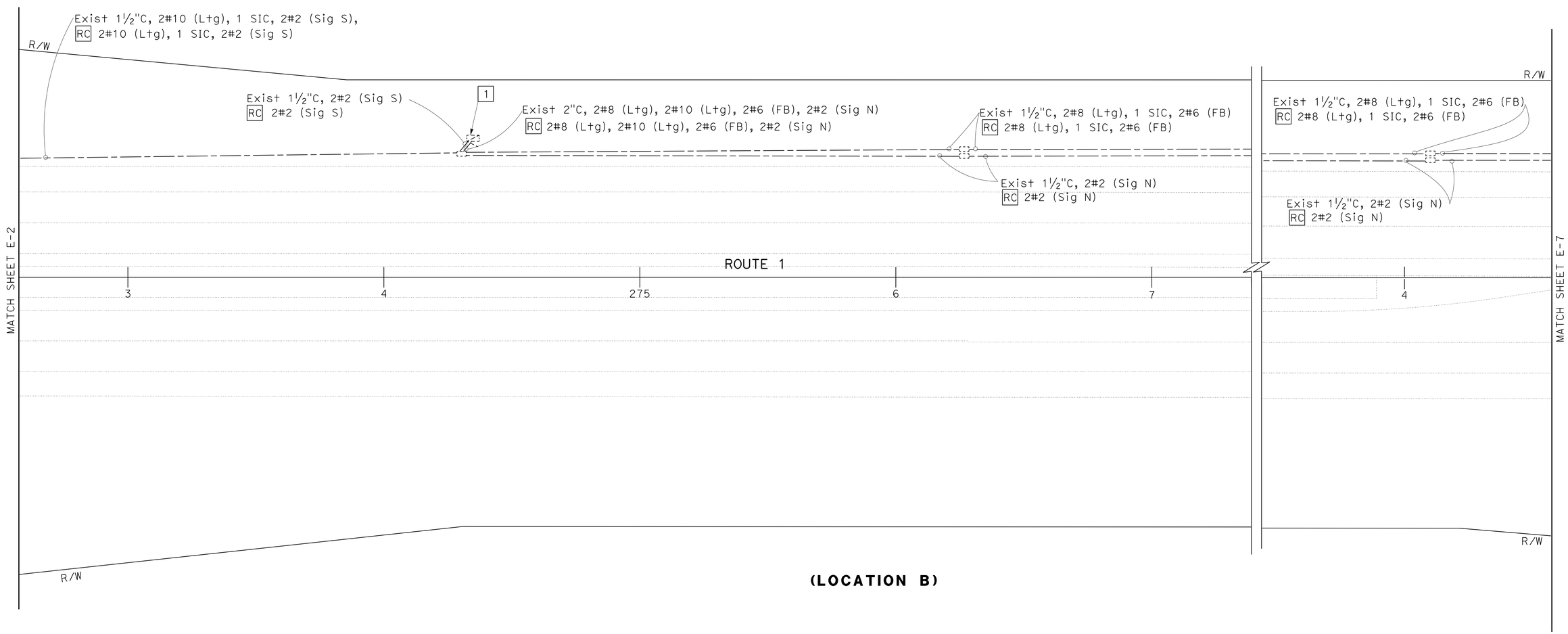
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

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.

LEGEND: (SEE SHEET E-1)

NOTES:

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



(LOCATION B)

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN

CHECKED BY: XAVIER ALFARO

REVISED BY

DATE REVISED

LAST REVISION 12-02-13

DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	59	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

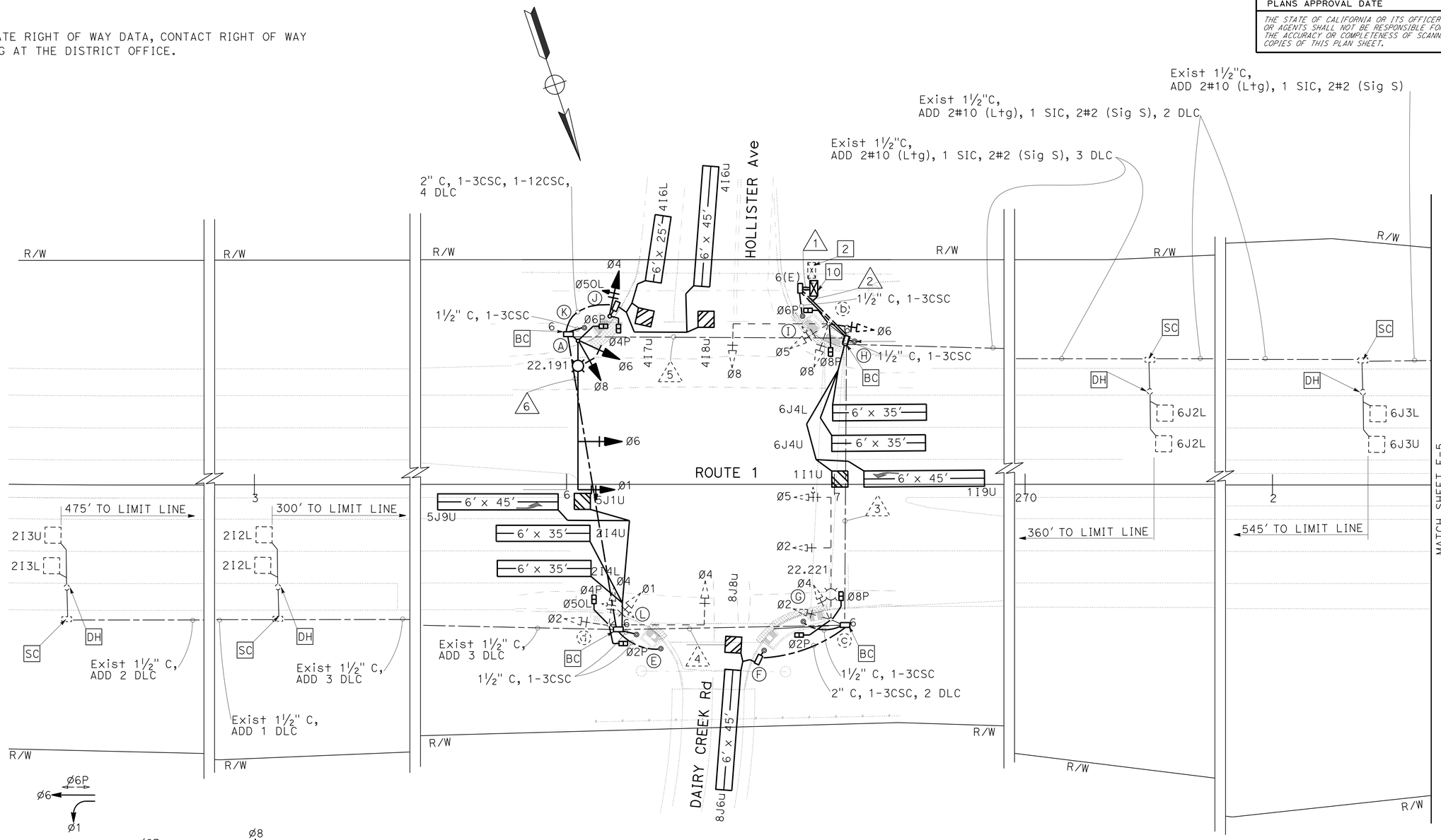
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

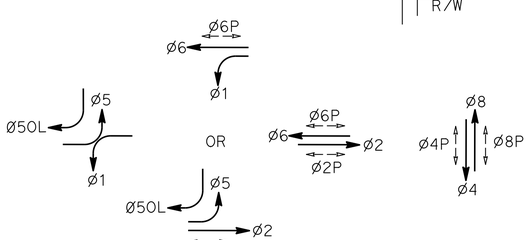
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND: (SEE SHEET E-1)

NOTES:

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





(LOCATION B CURB RAMPS 3-6)

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

E-4

APPROVED FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	60	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

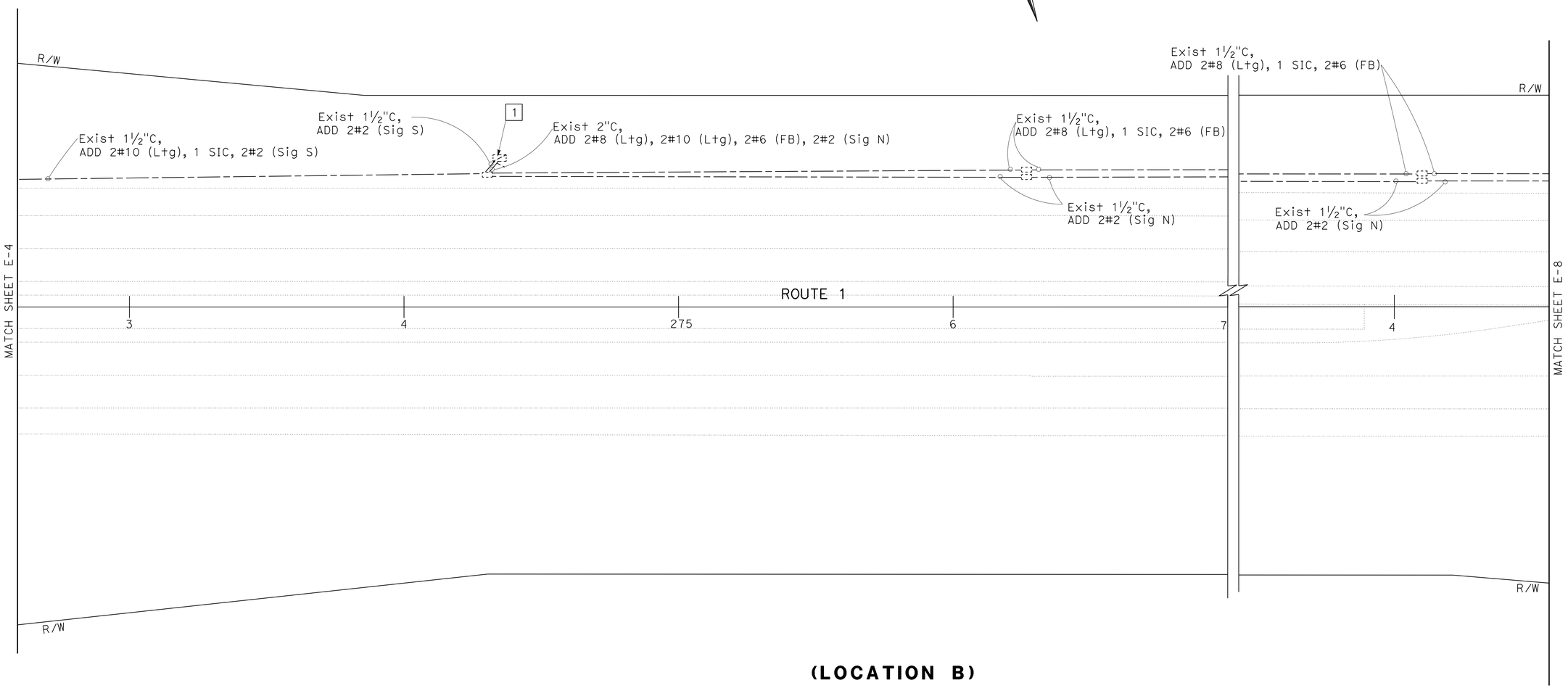
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

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.

LEGEND: (SEE SHEET E-1)

NOTES:

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



(LOCATION B)

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

E-5

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

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO

REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	61	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 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.

LEGEND: (FOR SHEETS E-7 THROUGH E-8)

1. DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY. FURNISH AND INSTALL BBS.
2. RS Exist MODEL 170E CONTROLLER ASSEMBLY.
3. RC Exist PBA, AND SEAL THE HOLE IN THE POLE SHAFT.
4. RC TWO Exist PBA, AND SEAL THE HOLE IN THE POLE SHAFT.
5. INSTALL LED COUNTDOWN PSF MODULE.
6. INSTALL TWO LED COUNTDOWN PSF MODULES.
7. Exist TYPE 9B FB.
8. RC Exist PSF MODULE.
9. RC TWO Exist PSF MODULES.

NOTES:

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

Exist CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	** 1	* 2	* 3	* 4
	CONDUIT SIZE	2-3"	3"	3"	3"
#14	ø1	3	3	3	3
	ø2	3	3	3	3
	ø4	3	3	3	3
	ø5	3	3	3	
	ø6	3	3		
	ø8	3	3		
	ø2p	2	2	2	2
	ø2pp	1	1	1	1
	ø6p	2	2		
	ø6pp	1	1		
	ø8p	2	2	2	
	ø8pp	1	1	1	
	PPB COMMON	1	1	1	1
	SPARES	3	3	3	3
	TOTAL #14	31	31	22	16
#6	FLASHING BEACON		2		
#8	LIGHTING		2	2	
#10	SIGNAL COMMON	1	1	1	1
#2/0	CONTROLLER	2			
DLC	ø1	1	1		
	ø2	4	4	4	4
	ø4	2			
	ø5	1	1	1	1
	ø6	4	4		
	ø8	2	2	2	
	cnt	2	2	2	
	TOTAL DLC	16	14	9	5

* RC ALL EXISTING CONDUCTORS.

** AB Exist CONDUit.

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION			CONDUIT RUN NUMBER AND SIZE				
CABLE TYPE	POLE	PHASE	1	2	3	4	5
			2-4"	3"	3"	3"	4"
VEH-PED 12CSC	a	1,6,8,6p	2				
	b	5,6,8,6p,8P	2	2			
	c	2,4,5,2P,8P	2			2	2
	d	1,2,4,2P	2				2
	E	6	1				
	F	6	1	1			
	G	8	1	1			
	H	8	1			1	1
	I	2	1			1	1
	J	2	1				1
PPB 3CSC	TOTAL		8 / 6	2 / 2	0 / 0	2 / 2	4 / 3
AWG	CIRCUIT						
#8	LIGHTING			2		2	2
#2	SIGNAL N		2				
#6	FLASHING BEACON		2				
	SIC		1				
DETECTORS-TYPE B DLC							
PHASE							
ø1			2	2			
ø2			2				2
ø2 MID			1				1
ø2 FAR			2				2
ø4			4				
ø5			2				2
ø6			2	2			
ø6 MID			1	1			
ø6 FAR			2	2			
ø8			4			4	4
	TOTAL		22	7	0	4	11

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA	LMA	Veh Sig Mtg MAST ARM	Veh Sig Mtg POLE	Ped Sig Mtg	APS ø	APS ARROW	HPS Lum	SPECIAL REQUIREMENTS
a	29A-5-70	55	15	MAT MAS	SV-2-TA	SP-1-T			310 W	3 5 8
b	24A-3-70	35	15	MAT	SV-3-TB	SP-2-T			310 W	4 6 9
c	29A-5-70	55	15	MAT MAS	SV-2-TA	SP-2-T			310 W	4 6 9
d	16-1-70	15		MAT	SV-3-TB	SP-1-T				3 5 8
E	PBA POST						6	←		
F	PBA POST						6	←		
G	PBA POST						8	→		
H	PBA POST						8	←		
I	PBA POST						2	→		
J	PBA POST						2	→		

(LOCATION B CURB RAMPS 7-10)

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

NO SCALE

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY / DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	62	91

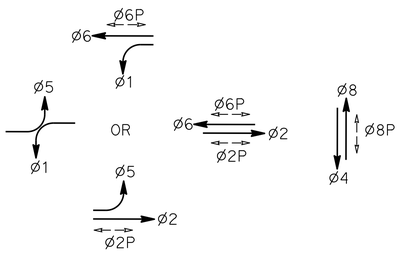
REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 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.

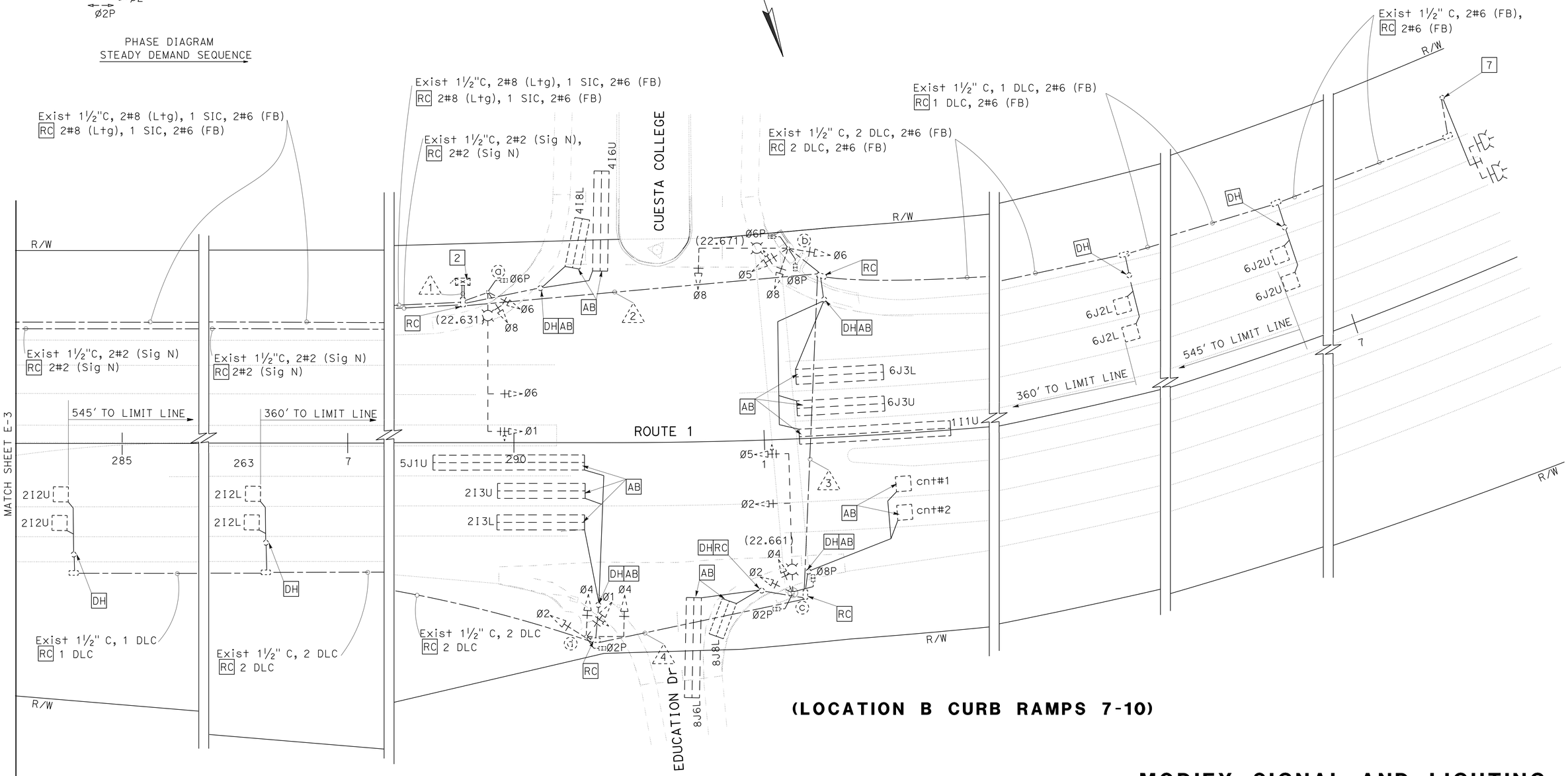
LEGEND: (SEE SHEET E-6)



PHASE DIAGRAM
STEADY DEMAND SEQUENCE

NOTES:

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



(LOCATION B CURB RAMPS 7-10)

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

E-7

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

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	63	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

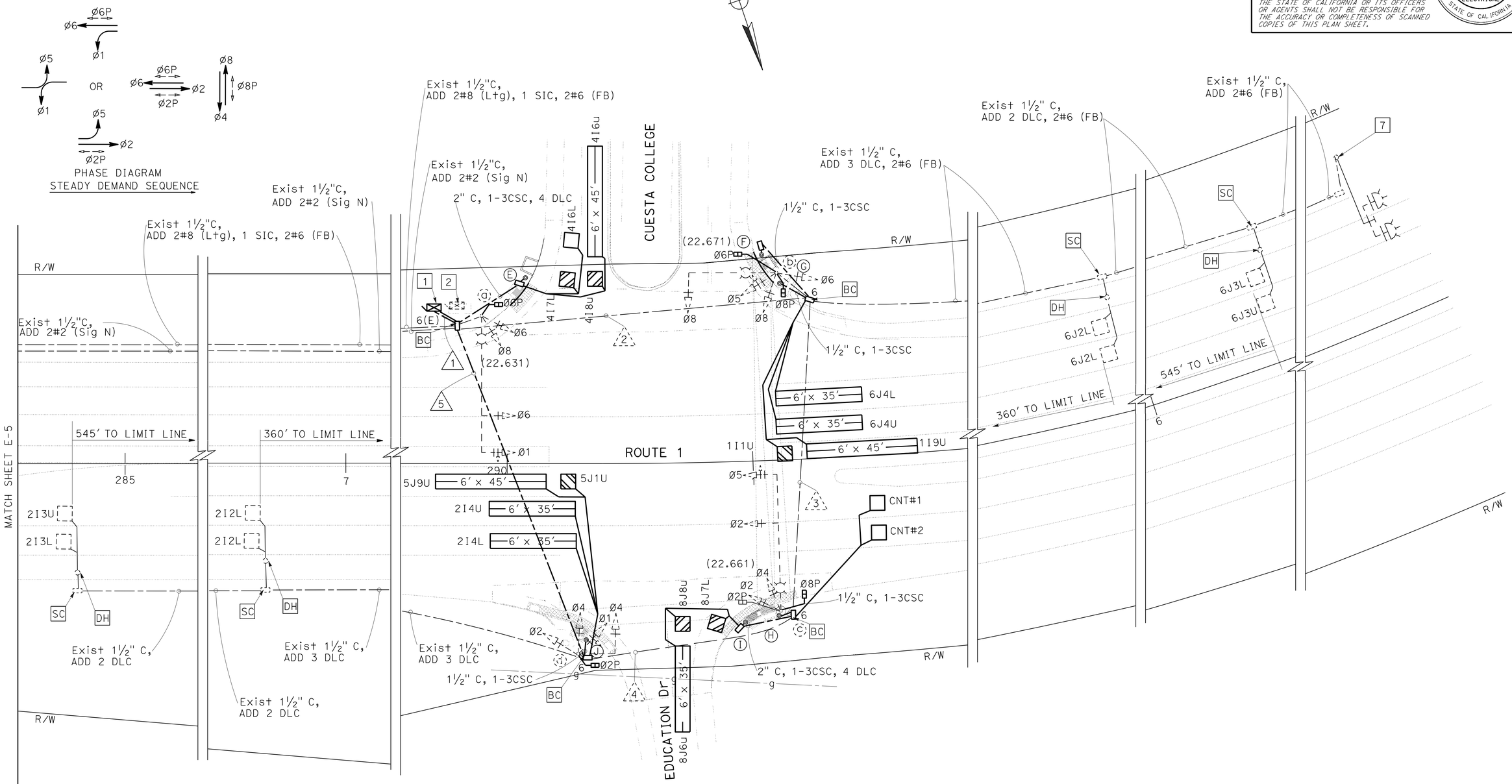
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

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.

LEGEND: (SEE SHEET E-6)

NOTES:

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



(LOCATION B CURB RAMPS 7-10)

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

E-8

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN

CHECKED BY: XAVIER ALFARO

REVISED BY | DATE REVISED

LAST REVISION 12-02-13

DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	64	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 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.

LEGEND: (FOR SHEETS E-10 AND E-11)

1. Exist 120/240 V, 1ø, 3-WIRE, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
2. Exist MODEL 170E CONTROLLER ASSEMBLY.
3. RC Exist PBA, AND SEAL THE HOLE IN THE POLE SHAFT.
4. RC TWO Exist PBA, AND SEAL THE HOLE IN THE POLE SHAFT.
5. INSTALL LED COUNTDOWN PSF MODULE.
6. INSTALL TWO LED COUNTDOWN PSF MODULES.
7. Exist TYPE 9B FB.
8. Exist FB WITH TYPE 40-0-80 POLE.
9. RC Exist PSF MODULE.
10. RC TWO Exist PSF MODULES.

NOTES:

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

Exist CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	*1	*2	*3	*4	*5	*6	7	*8
	CONDUIT SIZE	3"	2-3"	3"	3"	3"	3"	3"	3"
#14	ø1		3	3	3				
	ø2		3						3
	ø4		3						3
	ø5		6	3	3	3	3		3
	ø6		3	3	3				
	ø8		3	3	3	3			
	ø2p		2						2
	ø2pp		1						1
	ø6p		2	2	2	2	2		
	ø6pp		1	1	1	1			
	ø8p		2	2	2	2			
	ø8pp		1	1	1	1			
	SPARES		6	3	3	3	3		3
	TOTAL #14		36	21	21	15	8		18
#10	FLASHING BEACON			4	2	2	2		
	LIGHTING			2	2	2			2
	SIGNAL COMMON		2	1	1	1	1		1
	IISNS								2
	TOTAL #10		2	7	7	7	3		5
#6	CONTROLLER	2							
DLC	ø1		1	1	1	1			
	ø2		6	6					
	ø4		2	2	2				
	ø5		1	1					
	ø6		6	6	6	6	4		
	ø8		2						2
	TOTAL DLC		18	16	9	7	4		2

* RC ALL EXISTING CONDUCTORS.

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION			CONDUIT RUN NUMBER AND SIZE							
CABLE TYPE	POLE	PHASE	1	2	3	4	5	6	7	8
			3"	2-3"	3"	3"	3"	3"	3"	3"
VEH-PED 12CSC	a	1,6,8,6p		2	2	2				
	b	8,8P		1	1	1	1			
	c	5,6P		1					1	1
	d	2,4,5,2P,8P		2						2
	e	4,2P		1						
	f	1			1					
	G	2		1						
	H	2		1						1
	I	8		1						1
	J	8		1	1	1	1			
	K	6		1	1	1	1			
	L	6		1	1	1				
PPB 3CSC	TOTAL		0	7	4	3	3	1	0	1
			0	6	3	3	2	0	1	0
AWG	CIRCUIT									
#8	LIGHTING						2	2	2	2
#6	SIGNAL	2								
#8	FLASHING BEACON N								2	2
#8	FLASHING BEACON S				2					
#10	IISNS									2
DETECTORS-TYPE B DLC										
PHASE										
ø1				2					2	2
ø2				2	2					
ø2 MID				2	2					
ø2 FAR				2	2					
ø4				2	2	2				
ø5				2	2					
ø6				2					2	2
ø6 MID				2					2	2
ø6 FAR				2					2	2
ø8				2						2
	TOTAL			20	10	2	0	0	8	10

POLE AND EQUIPMENT SCHEDULE

	STANDARD			Veh Sig Mtg		Ped Sig Mtg	APS		HPS Lum	SPECIAL REQUIREMENTS
No.	TYPE	SMA	LMA	MAST ARM	POLE		ø	ARROW		
a	29-5-70	50	12	MAT MAS	SV-2-TA	SP-1-T			200 W	3 5 9
b	26-3-70	40	12	MAT	SV-1-T	SP-1-T			200 W	4 5 9
c	1-A				TV-1-T	SP-1-T				5 9
d	29-5-70	55	12	MAT MAS	SV-2-TA	SP-2-T			200 W	4 6 10
e	26-3-70	45	12	MAT	SV-1-T	SP-1-T			200 W	3 5 9
f	1-A				TV-1-T					
G	PBA POST						2	←		
H	PBA POST						2	→		
I	PBA POST						8	←		
J	PBA POST						8	→		
K	PBA POST						6	←		
L	PBA POST						6	→		

(LOCATION D CURB RAMPS 15-18)

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

NO SCALE

E-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	65	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

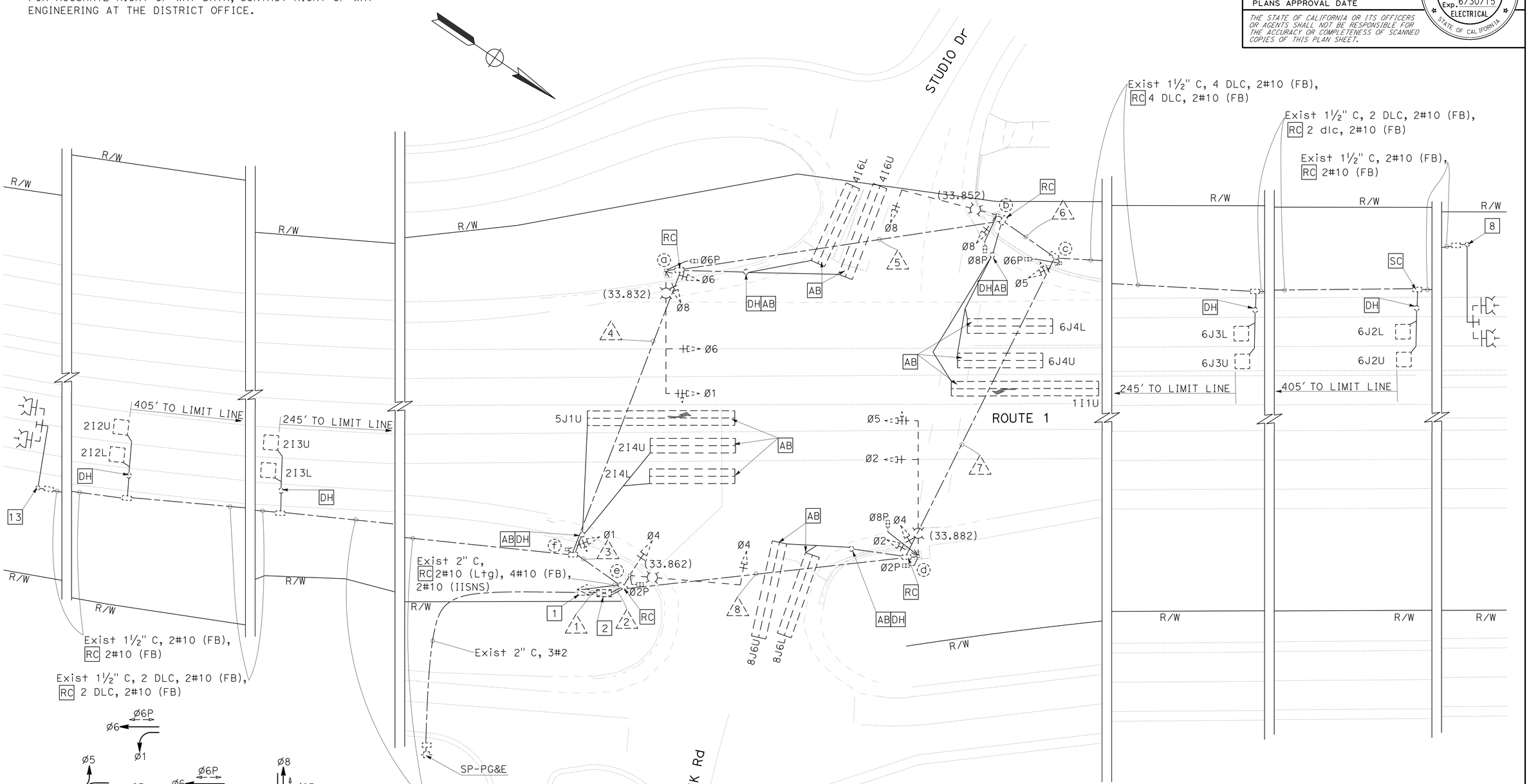
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

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.

LEGEND: (SEE SHEET E-9)

NOTES:

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



PHASE DIAGRAM
STEADY DEMAND SEQUENCE

(LOCATION D CURB RAMPS 15-18)

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

E-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	66	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

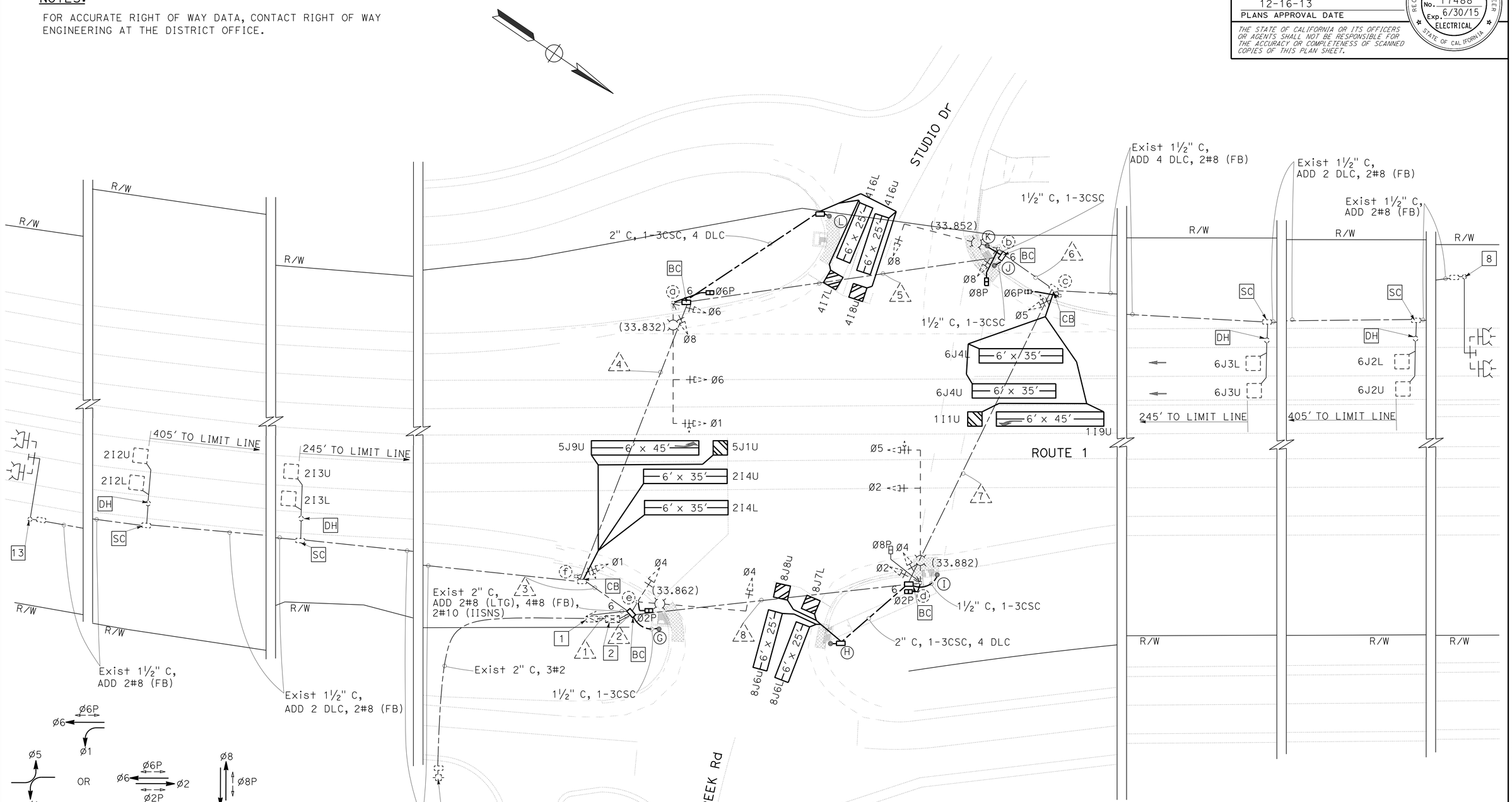
REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

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.

LEGEND: (SEE SHEET E-9)

NOTES:

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



(LOCATION D CURB RAMPS 15-18)

MODIFY SIGNAL AND LIGHTING

SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

E-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	67	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
XAVIER IVANHOE ALFARO
No. 17488
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.

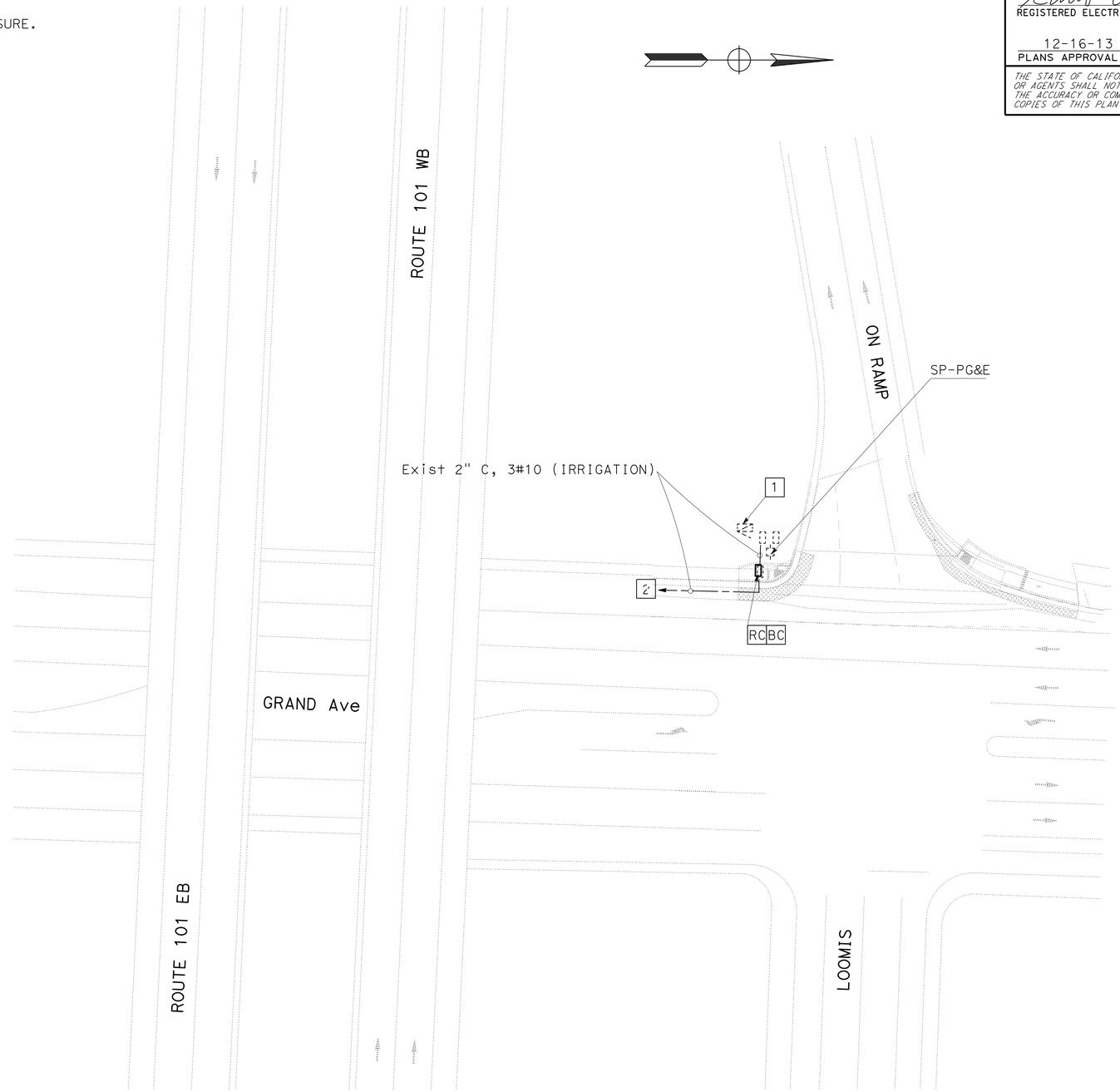
LEGEND: (FOR THIS SHEET ONLY)

1 Exist 120/240 V, 1Ø, 3-WIRE, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.

2 TO EXISTING Ckt NOT SHOWN.

NOTES:

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



(LOCATION G CURB RAMPS 25-26)

APPROVED FOR ELECTRICAL WORK ONLY

ADJUST PULL BOX

SCALE: 1" = 20'

E-12

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	KARIM ABDOLLAHIAN
CHECKED BY	XAVIER ALFARO
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

LAST REVISION 12-02-13 | DATE PLOTTED => 24-MAR-2014 | TIME PLOTTED => 17:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	68	91

REGISTERED ELECTRICAL ENGINEER 12-16-13 DATE

12-16-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER XAVIER IVANHOE ALFARO No. 17488 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.

NOTES:

1. THE QUANTITIES ON THIS SHEET ARE NOT A SEPARATE PAY ITEM AND ARE FOR INFORMATION ONLY.

MODIFY SIGNAL AND LIGHTING

SHEET No.	1½"C, TYPE 1	1½"C, TYPE 3	2"C, TYPE 1	2"C, TYPE 3	3"C, TYPE 3	4"C, TYPE 1	4"C, TYPE 3	No. 2 CONDUCTOR	No. 6 CONDUCTOR	No. 8 CONDUCTOR	No. 10 CONDUCTOR	No. 8 CONDUCTOR (G)	SIC	DLC	3CSC CABLE	12CSC CABLE	TYPE A DETECTOR LOOP	TYPE C DETECTOR LOOP	TYPE D DETECTOR LOOP	No. 5 PB	No. 6 PB	No. 6(E) PB	CONTROLLER CABINET	CONTROLLER CABINET FOUNDATION	PBA POLE	PBA FOUNDATION	LED COUNTDOWN PSF MODULE	APS	TYPE 1-A POLE	TYPE 1-A POLE FOUNDATION	TYPE 29A-5-100 POLE	TYPE 29A-5-100 POLE FOUNDATION
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-4	48		58		110	10	50	1,166		510	1,110	810	583	5,490	1,169	1,422		9	5	3	3	1	1	1	7	7	8	8	1	1	1	1
E-5								2,380	2,020	2,020	360	1,010	1,170																			
E-8	36	30		46		20	142	1,060	3,060	1,776		1,530	530	6,200	1,080	1,340	3	8	6	3	3	1	1	1	6	6	6	6				
E-11	50			100					10	5,348	228	2,674		5,388	1,136	1,362		10	6	2	4				6	6	6	6				

ADJUST PULL BOX

SHEET No.	No. 5 PB
	EA
E-12	1

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL QUANTITIES
E-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: XAVIER ALFARO
REVISED BY
DATE REVISED

LAST REVISION 12-02-13
DATE PLOTTED => 24-MAR-2014
TIME PLOTTED => 17:41

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
05	Mon,SLO	1, 101	Var	69	91

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Grace M. Tsushima No. C49814 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 12-16-13

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

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	70	91

REGISTERED CIVIL ENGINEER

April 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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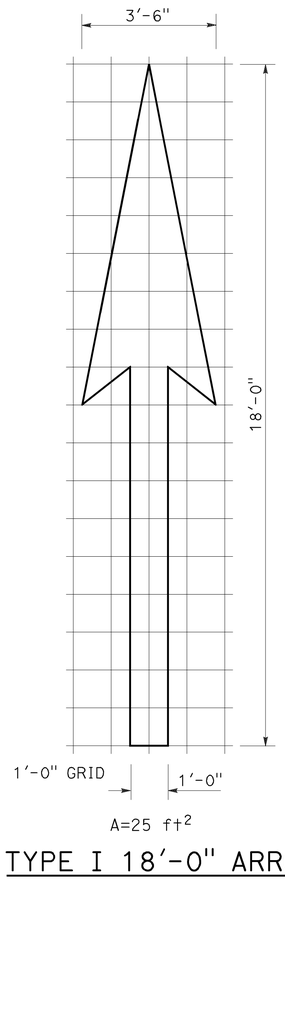
TO ACCOMPANY PLANS DATED 12-16-13



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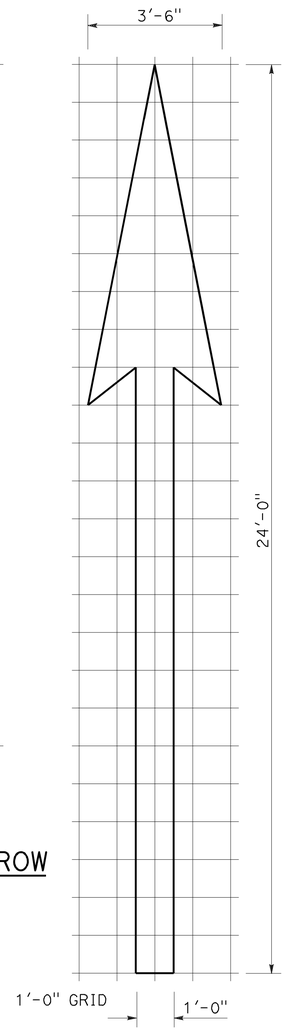
TYPE I 18'-0" ARROW



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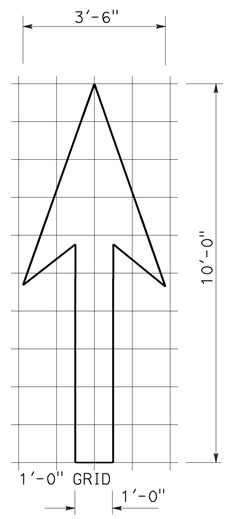

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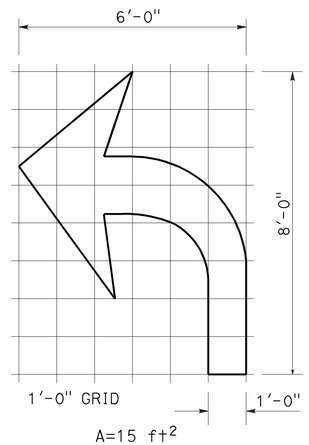
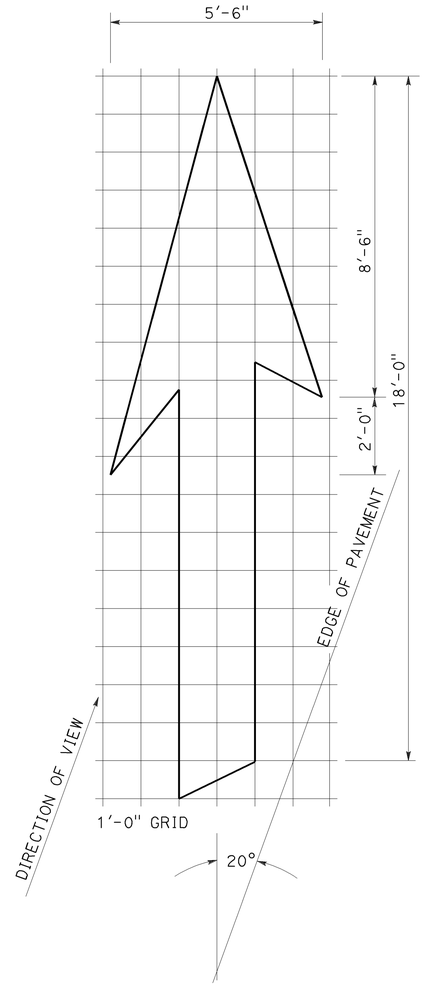
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

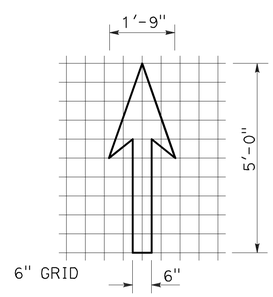
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

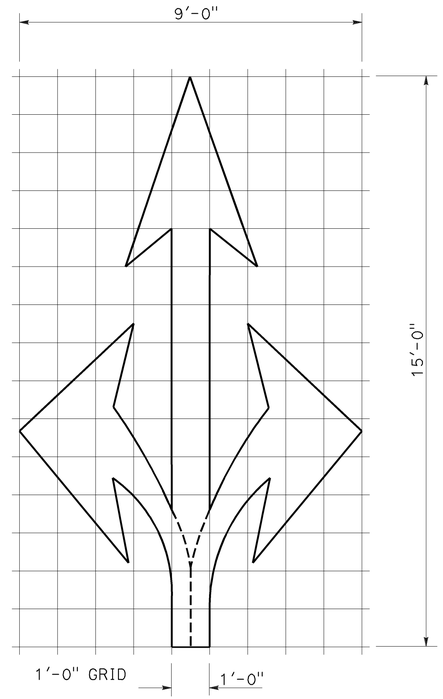
TYPE VI ARROW

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



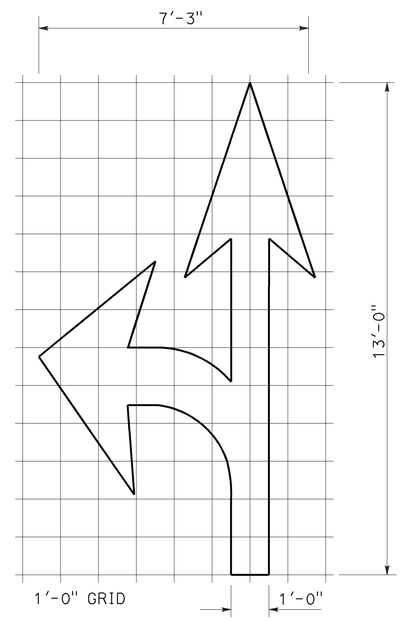
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

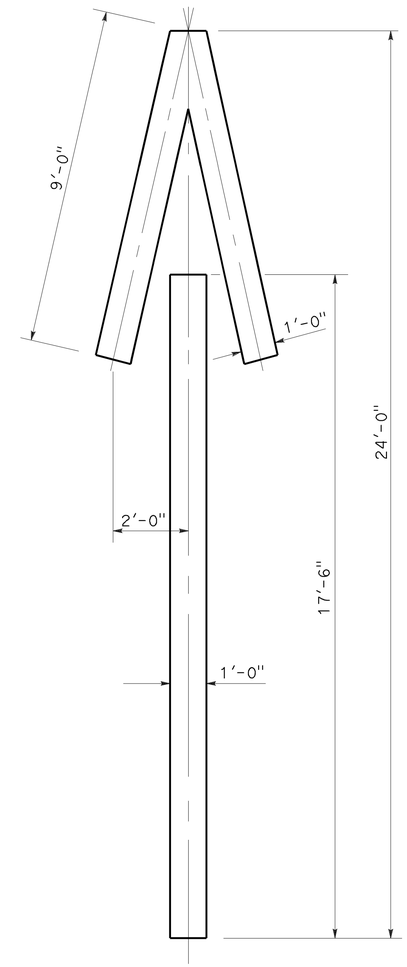
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

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



A=33 ft^2

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

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	71	91

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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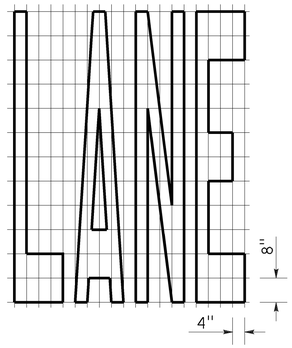
TO ACCOMPANY PLANS DATED 12-16-13



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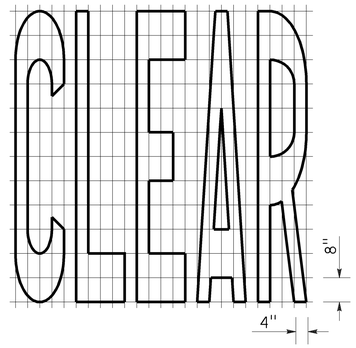

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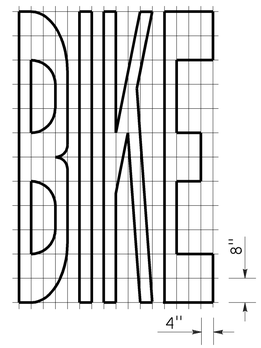

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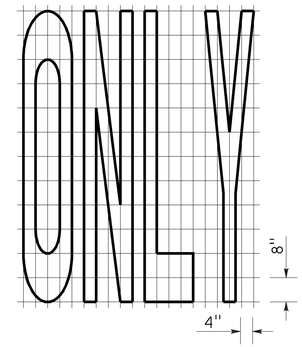

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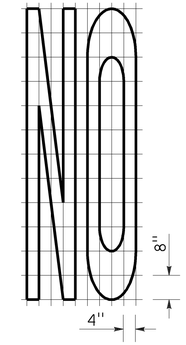

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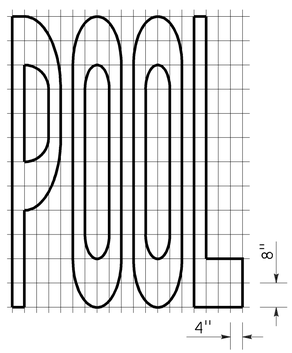

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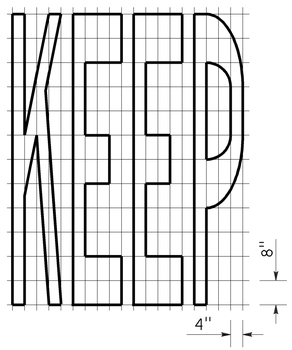

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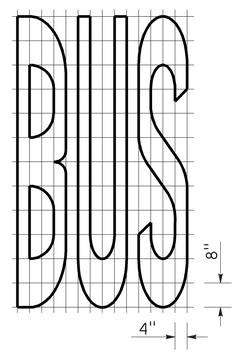

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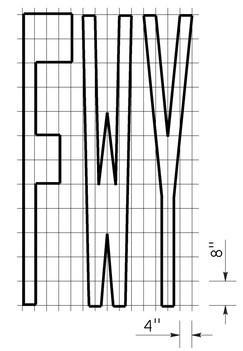

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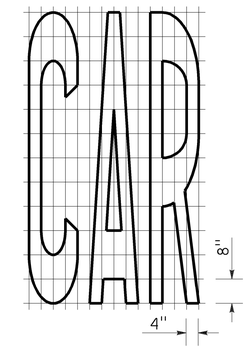
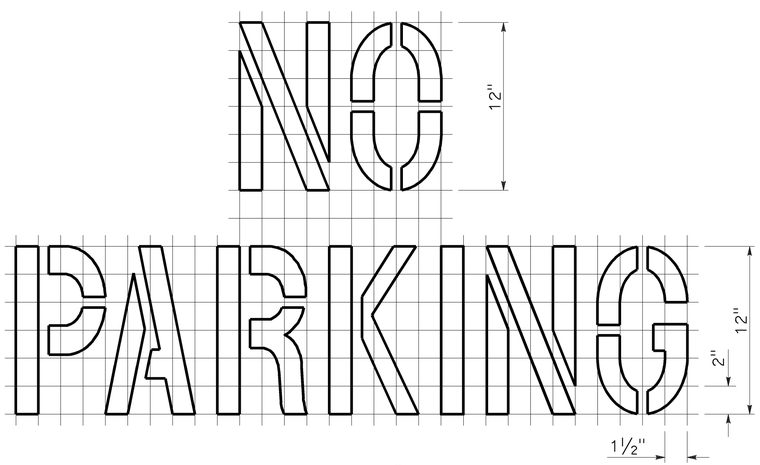
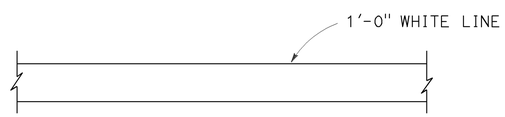


A=17 ft²

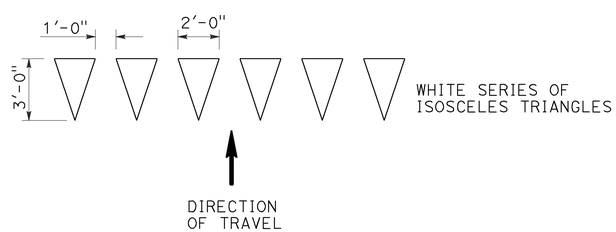
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
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

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	72	91

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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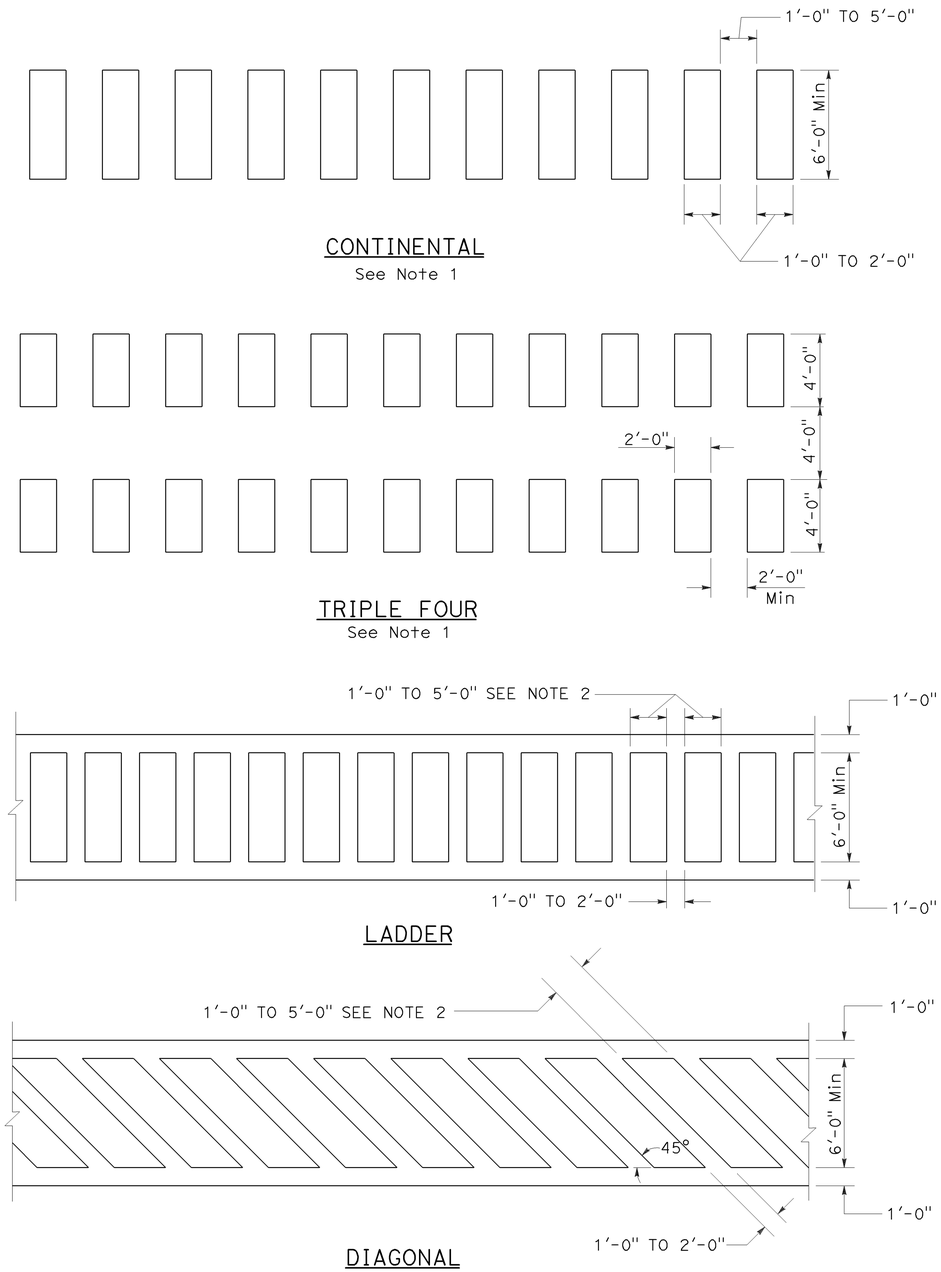
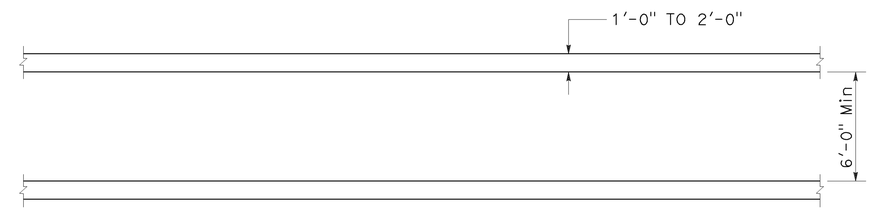
TO ACCOMPANY PLANS DATED 12-16-13



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

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	73	91

Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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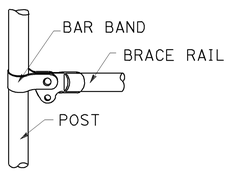
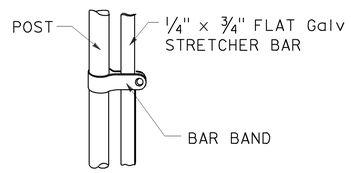
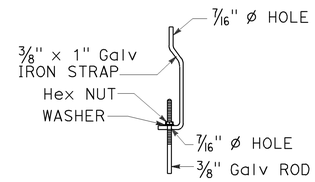
TO ACCOMPANY PLANS DATED 12-16-13



BRACE RAIL



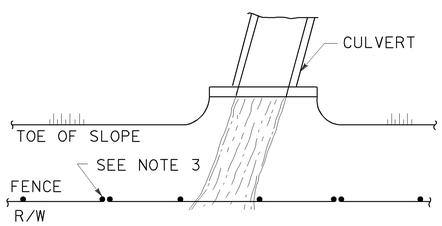
STRETCHER BAR



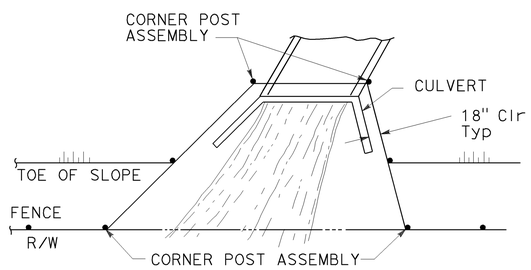
TRUSS TIGHTENER

NOTES:

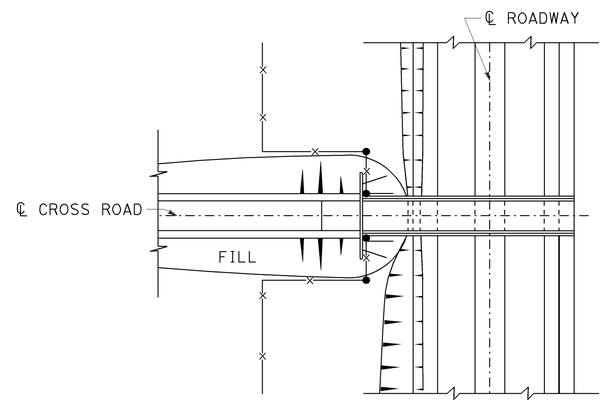
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



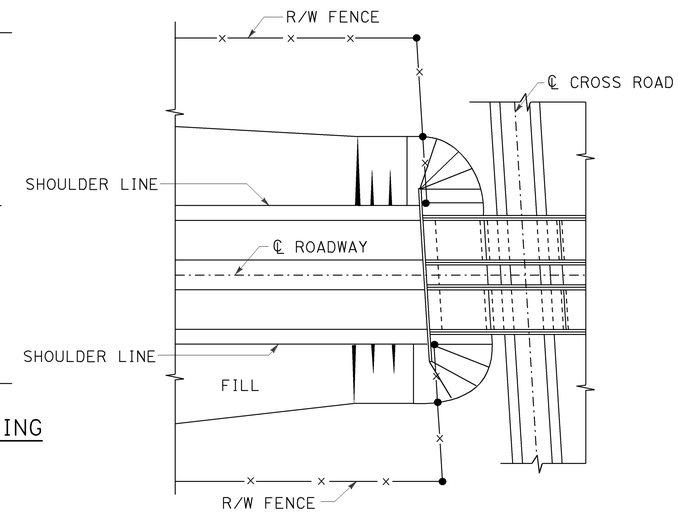
PLAN



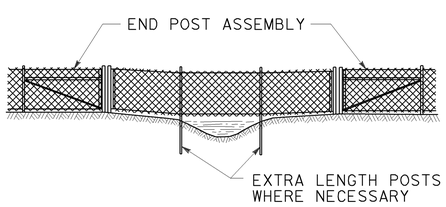
PLAN



PLAN OF ROADWAY - OVERCROSSING

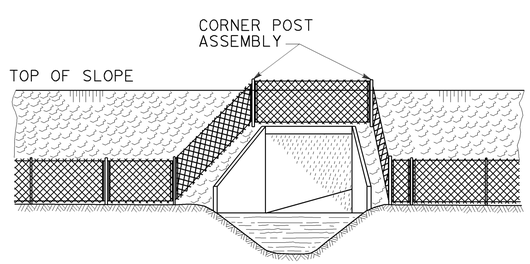


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

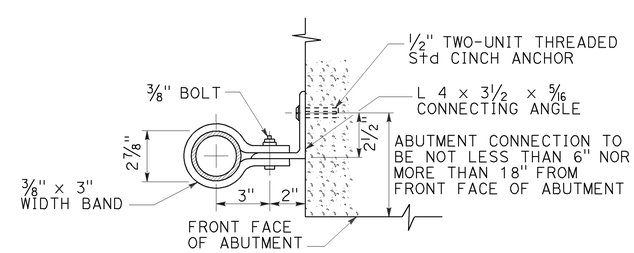
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B

7-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	74	91

REGISTERED CIVIL ENGINEER

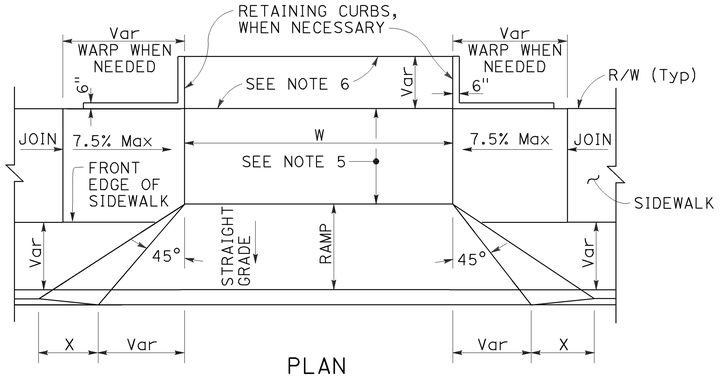
July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Michael Janzen No. 44788 Exp. 03-31-14 CIVIL STATE OF CALIFORNIA

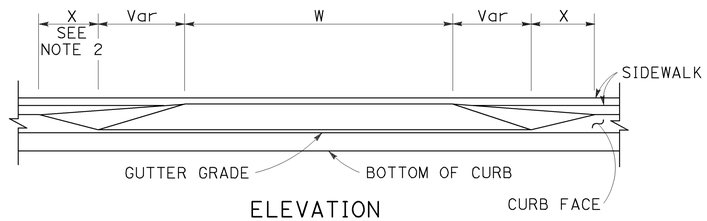
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 12-16-13

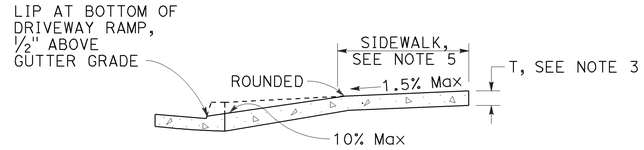
2010 REVISED STANDARD PLAN RSP A87A



PLAN

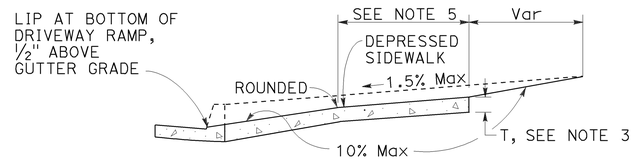


ELEVATION



CASE A

Typical driveway, sidewalk not depressed



CASE B

Driveway with depressed sidewalk

SECTIONS

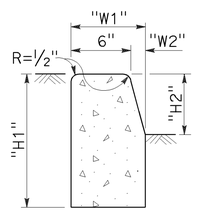
DRIVEWAYS

TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

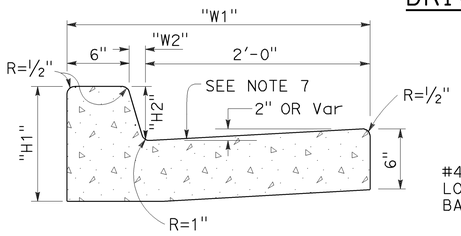
CURB QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661



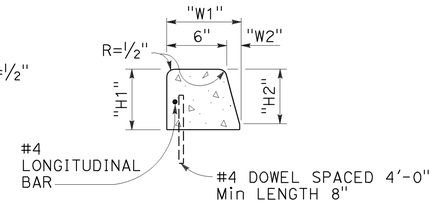
TYPE A1 CURBS

See Table A



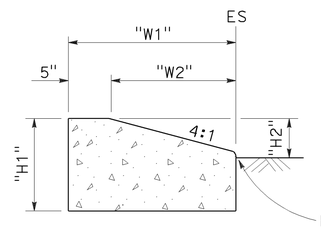
TYPE A2 CURBS

See Table A



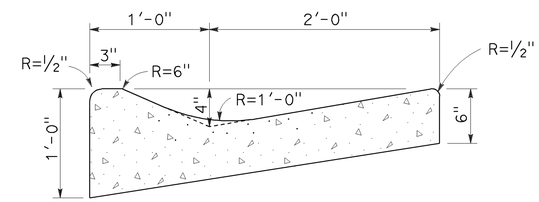
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

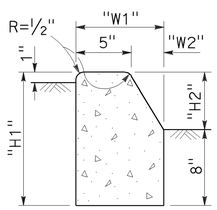


TYPE D CURBS

See Table A

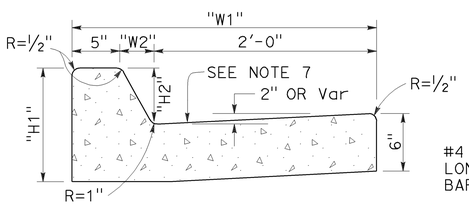


TYPE E CURB



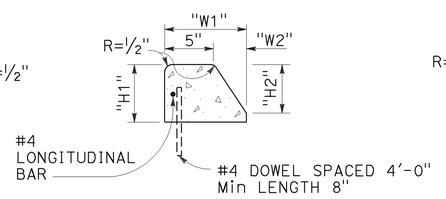
TYPE B1 CURBS

See Table A



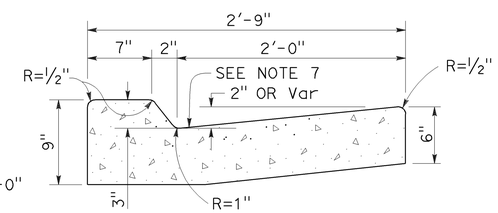
TYPE B2 CURBS

See Table A

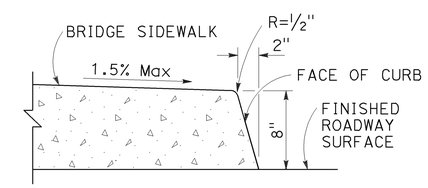


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	75	91

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

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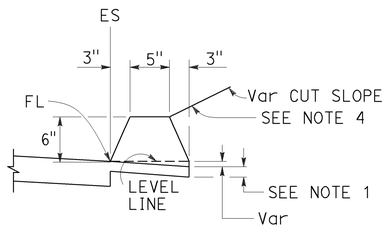
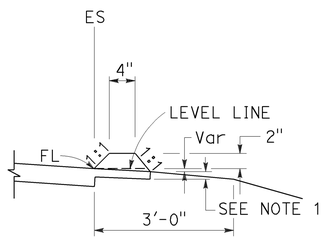
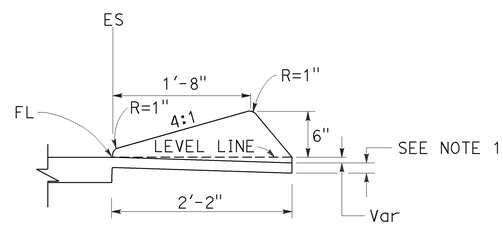
TO ACCOMPANY PLANS DATED 12-16-13



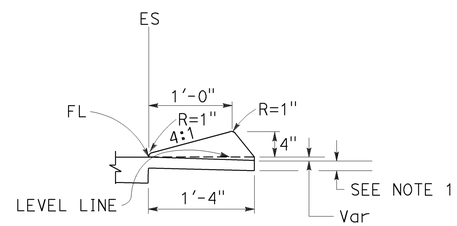
TYPE A
See Note 3



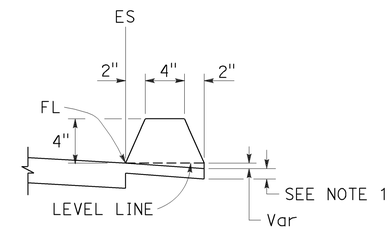
TYPE C



TYPE D

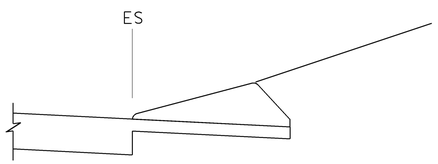


TYPE E

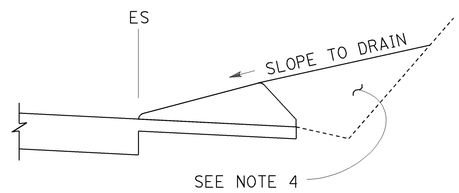


TYPE F
See Note 5

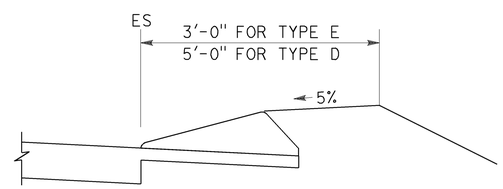
DIKES



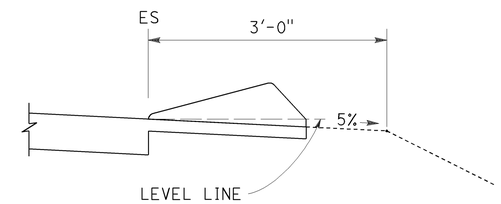
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	76	91

REGISTERED CIVIL ENGINEER

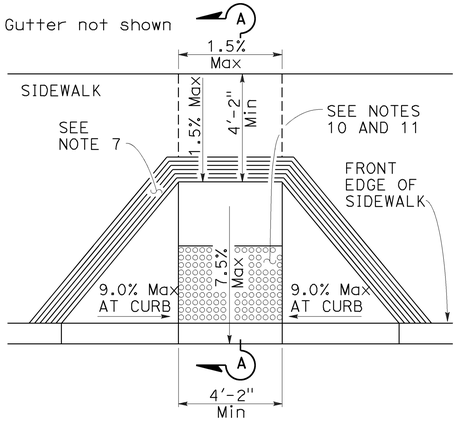
March 21, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-14 CIVIL STATE OF CALIFORNIA

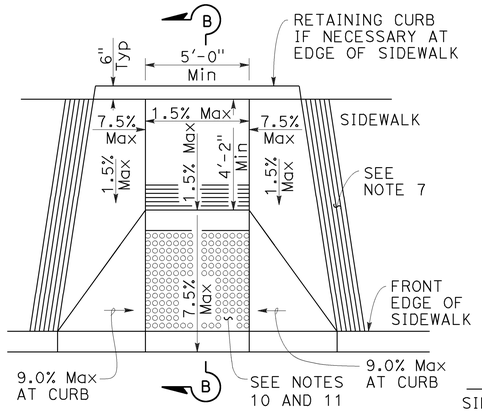
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 12-16-13

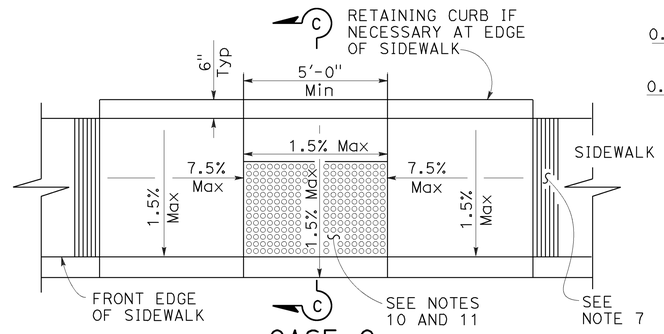
2010 REVISED STANDARD PLAN RSP A88A



CASE A

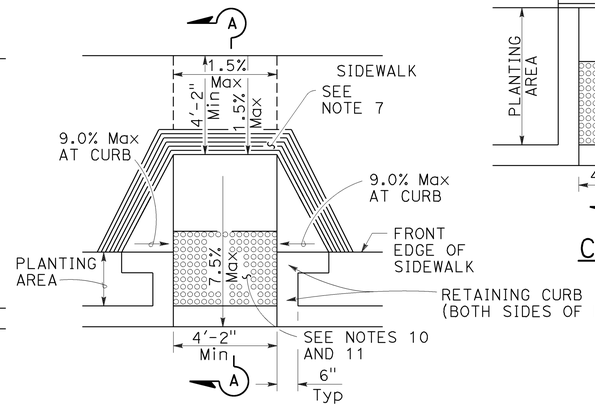


CASE B

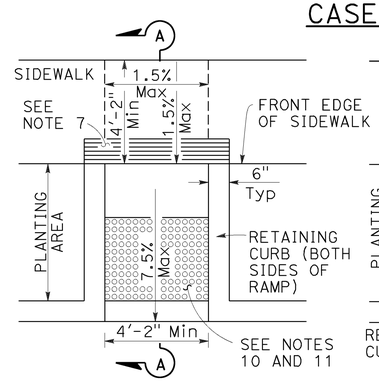


CASE C

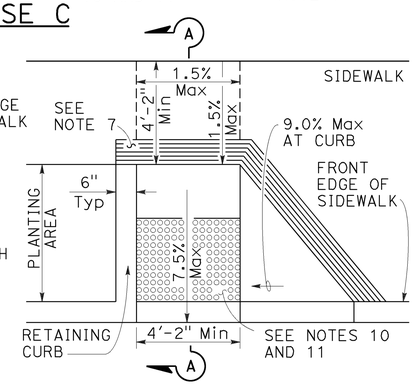
CASE D



CASE E

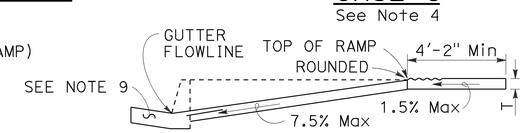


CASE F

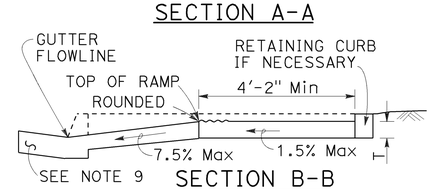


CASE G

See Note 4

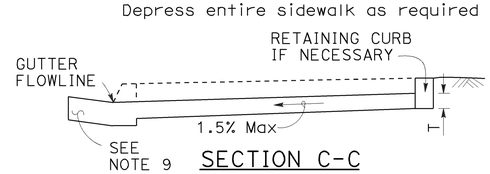


SECTION A-A

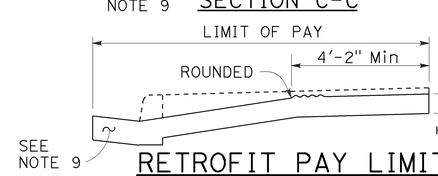


SECTION B-B

Depress entire sidewalk as required

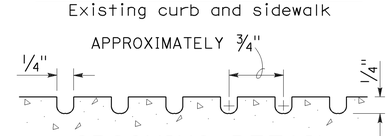


SECTION C-C



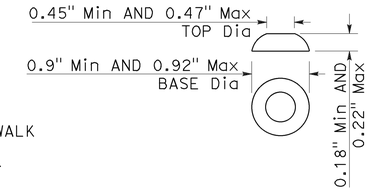
RETROFIT PAY LIMITS

Existing curb and sidewalk



GROOVING DETAIL

See Note 4



RAISED TRUNCATED DOME

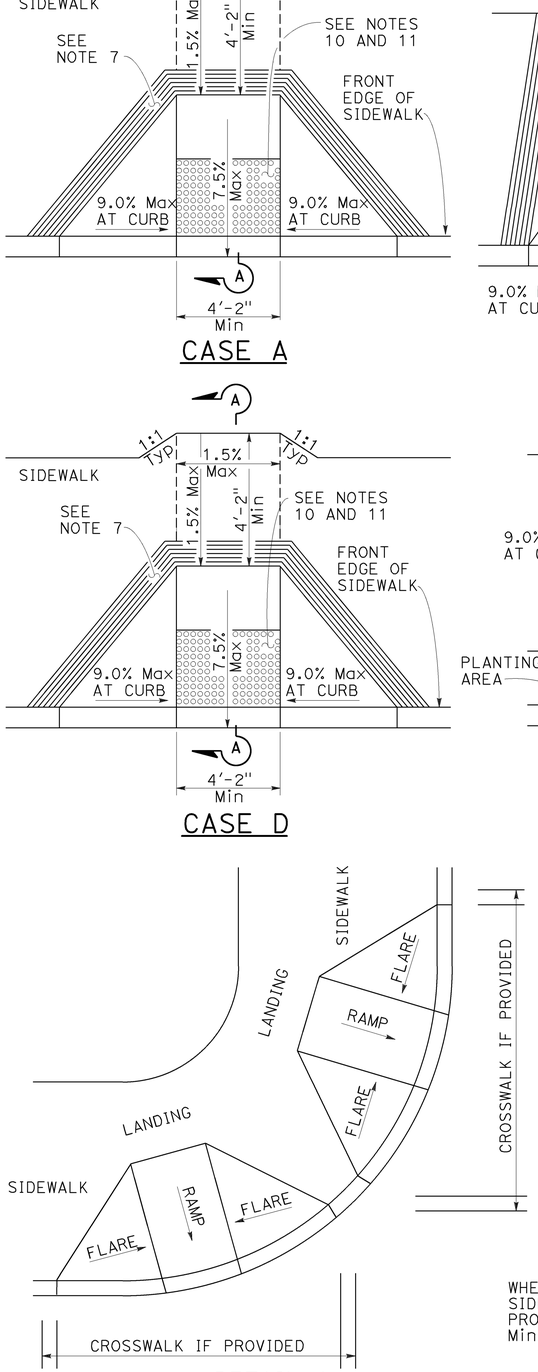
NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
8. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
9. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
10. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
12. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
13. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
14. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

RAISED TRUNCATED DOME PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE

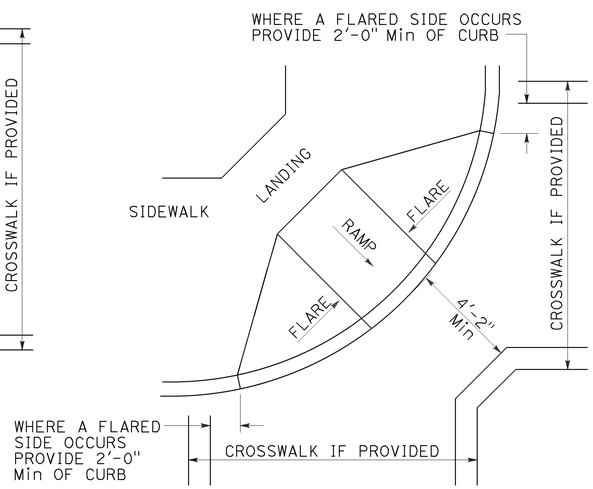
See Note 10



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

See Note 1



DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

See Notes 1 and 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

RSP A88A DATED MARCH 21, 2014 SUPERSEDES RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

2-25-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	77	91

REGISTERED CIVIL ENGINEER

March 21, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Hector David Cordova
No. C41957
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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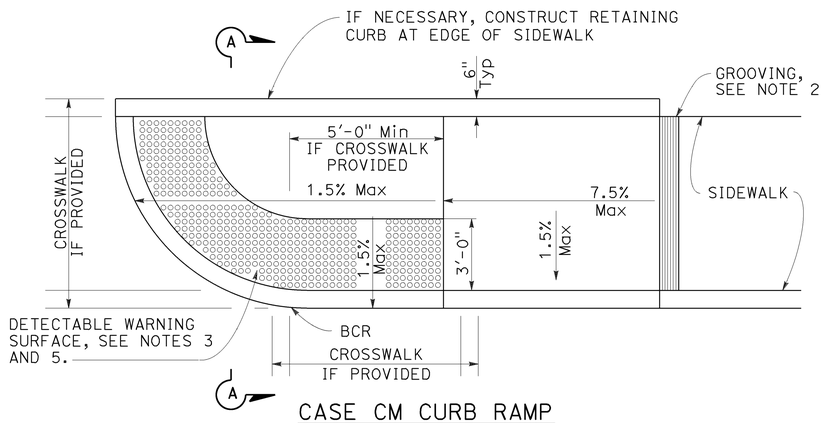
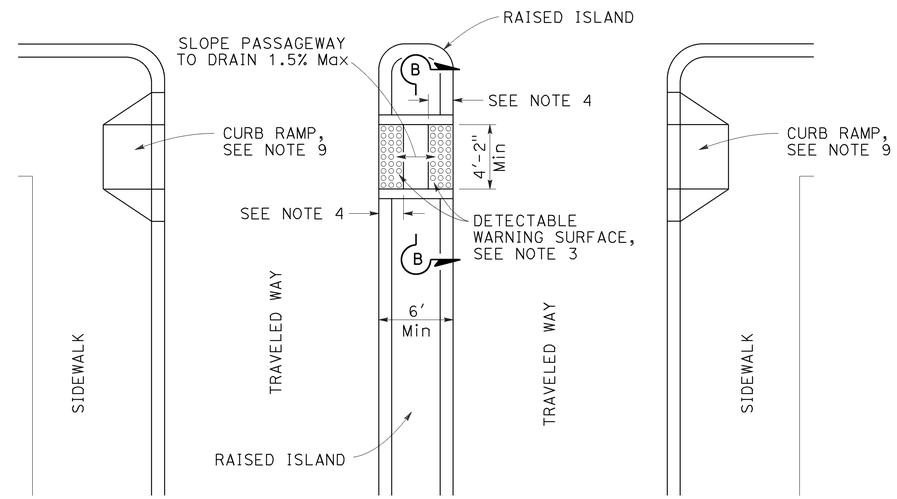
TO ACCOMPANY PLANS DATED 12-16-13

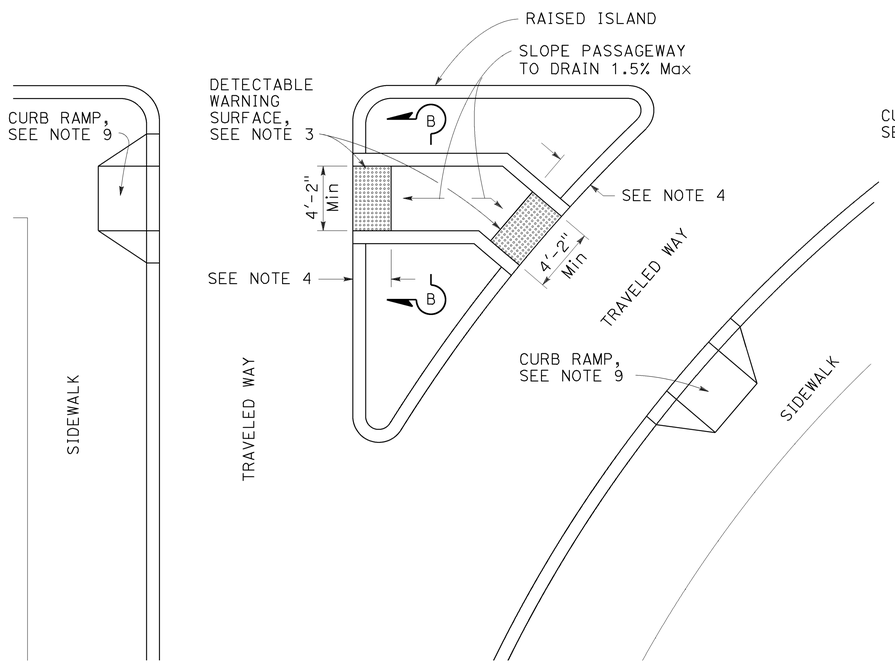
Gutter not shown



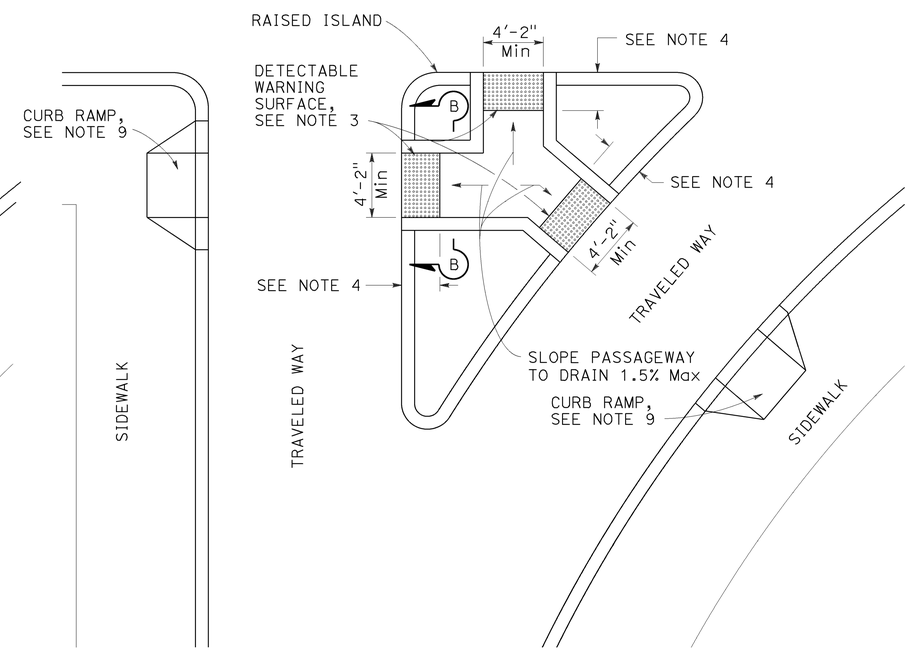
CASE CM CURB RAMP



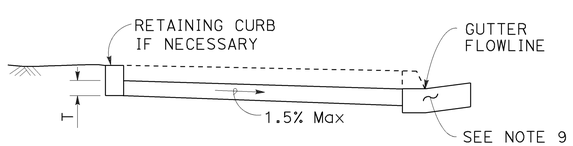
TYPE A PASSAGEWAY



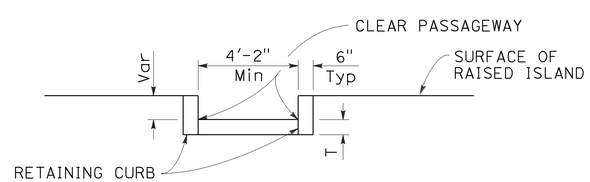
TYPE B PASSAGEWAY



TYPE C PASSAGEWAY



SECTION A-A



SECTION B-B

NOTES:

1. Sidewalk, ramp and passageway thickness, "T", shall be 3½" minimum.
2. For details of grooving used with Case CM curb ramp, see Revised Standard Plan RSP A88A.
3. For details of detectable warning surfaces, see Revised Standard Plan RSP A88A.
4. Where an island passageway length is greater than or equal to 6'-0", but less than 8'-0", each detectable warning surface shall extend the full width and 2'-0" depth of the passageway length. Where an island passageway length is greater than or equal to 8'-0", each detectable warning surface shall extend the full width and 3'-0" depth of the passageway length. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide island passageway.
5. For Case CM curb ramp, the edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
6. Transitions from ramps to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
7. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
8. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.
9. For additional curb ramp details, see Revised Standard Plan RSP A88A.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP AND ISLAND PASSAGEWAY DETAILS

NO SCALE

RSP A88B DATED MARCH 21, 2014 SUPERSEDES RSP A88B DATED JULY 19, 2013 AND STANDARD PLAN A88B DATED MAY 20, 2011 - PAGE 122 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88B

2010 REVISED STANDARD PLAN RSP A88B

2-25-14

TO ACCOMPANY PLANS DATED 12-16-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	78	91

Glenn De Cou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Glenn DeCou No. C34547 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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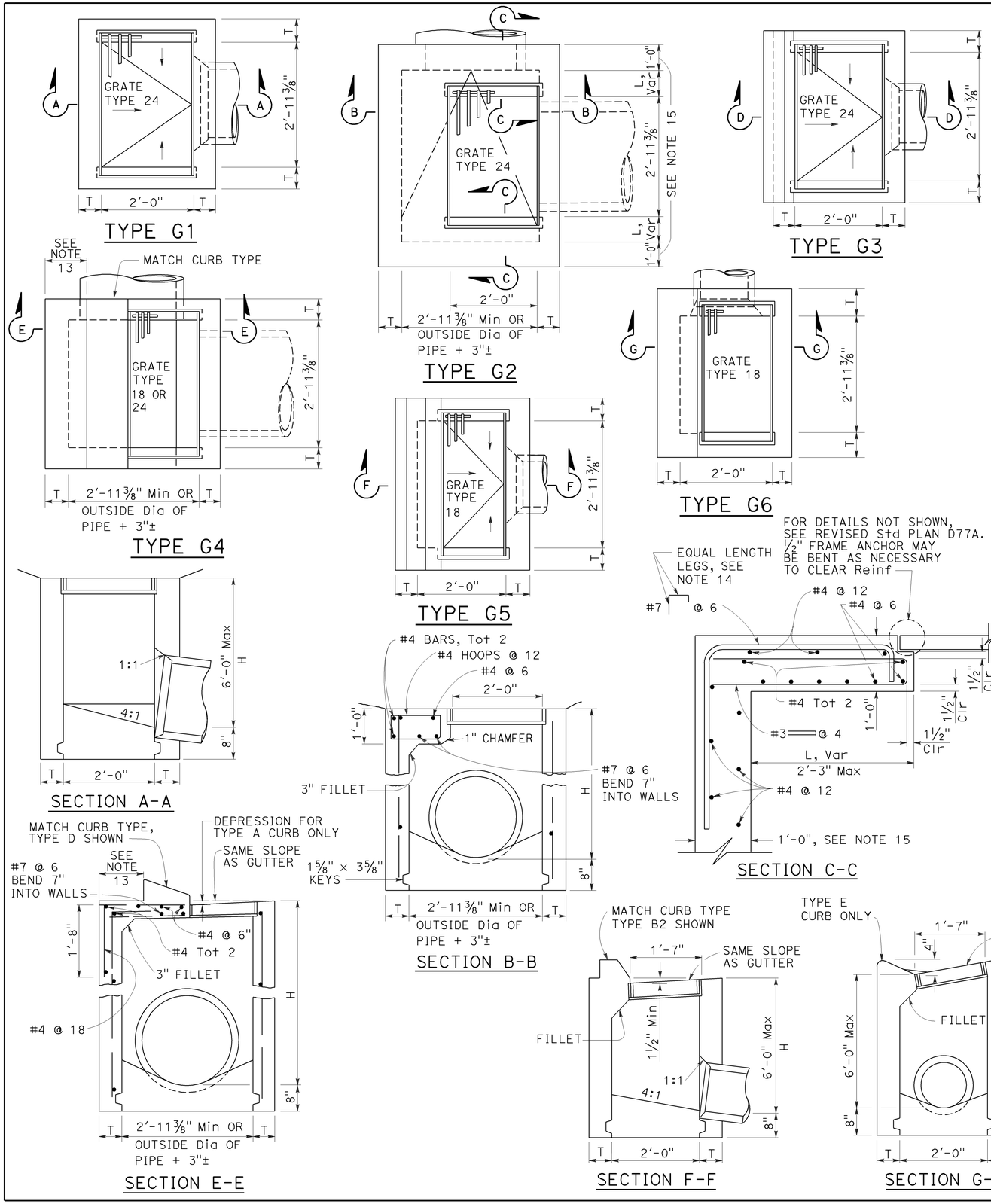

NOTES:

1. "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
2. For "T" wall thickness, see Table A below.
3. Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 bars @ 1'-6" ± centers placed 1½" clear to inside of box unless otherwise shown.
4. Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom and alternative half round bottom.
5. Steps-None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
6. Details shown apply to both metal and concrete pipe.
7. Pipe(s) can be placed in any wall.
8. Curb section shall match adjacent curb.
9. Basin floors shall have wood trowel finish and a minimum slope of 12:3 from all directions toward outlet pipe.
10. Set inlet so that grate bars are parallel to direction of principal surface flow.
11. See Revised Standard Plans D77A and D77B for grate and frame details and weights of miscellaneous iron and steel.
12. See Standard Plan D78A for gutter depression details.
13. This dimenison will vary with different grates, curbs types, box width and wall thickness.
14. Bar may be rotated as necessary to clear opening. Where "L" is 6" or less, bar may be omitted.
15. Where "L" is 6" or less, wall thickness shall be as shown in Table A.
16. Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet, and concrete poured in one continuous operation. Precast inlets shall have mortared connections conforming to details for Type GCP Inlet shown on Standard Plan D75B. See Standard Specifications for mortar composition.

TABLE A

CONCRETE QUANTITIES				
TYPE	H=3'-0" TO 8'-0" (T=6")		H=8'-1" TO 20'-0" (T=8")	
	H=3'-0" (CY)	ADDITIONAL PCC PER FOOT (CY)	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
G-1	0.95	0.220	See Note A	SEE NOTE A
G-2*	1.31	0.255	3.50	0.357
G-3	1.03	0.220	See Note A	SEE NOTE A
G-4* (TYPE 24)	1.27	0.255	3.48	0.357
G-4* (TYPE 18)	1.30	0.255	3.50	0.357
G-5	1.02	0.220	SEE NOTE A	SEE NOTE A
G-6	1.04	0.220	SEE NOTE A	SEE NOTE A

TABLE BASED ON 8" FLOOR SLAB. NO DEDUCTIONS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES OR DIFFERENT CURB TYPES. * QUANTITIES FOR TYPE G-2 AND G-4 INLETS BASED ON THE MINIMUM INTERIOR DIMENSIONS.

NOTE A:

Maximum allowable height 6'-0".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DRAINAGE INLETS

NO SCALE

RSP D73 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN D73 DATED MAY 20, 2011 - PAGE 156 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D73

2010 REVISED STANDARD PLAN RSP D73

7-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	79	91

Raymond Don Tsztoo
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Raymond Don Tsztoo No. C37332 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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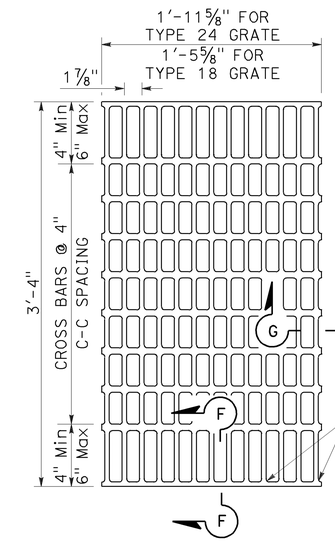
TO ACCOMPANY PLANS DATED 12-16-13

2010 REVISED STANDARD PLAN RSP D77B



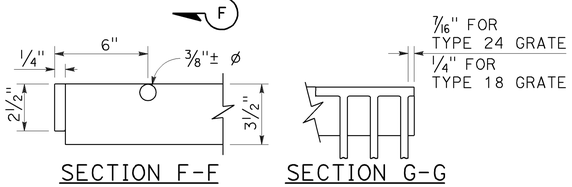
NOTES:

Bearing bars to be 3½" × ¼" bars on 1⅞" centers.

⅜"± ø Cross bars may be fillet welded, resistance welded or electroforged to bearing bars.

Weight of Type 24 grate = 141 LBS.

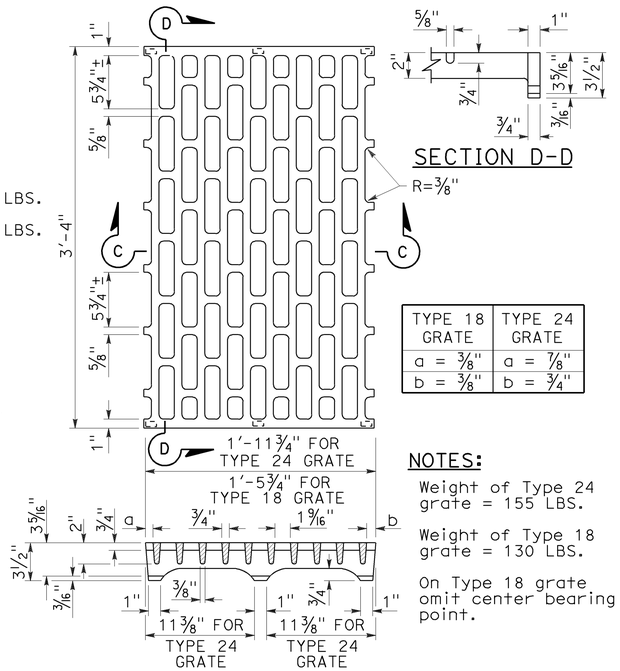
Weight of Type 18 grate = 107 LBS. (Type 24 grate shown).



SECTION F-F SECTION G-G

TYPE 18-10 AND 24-13 GRATE

(Welded Steel)



SECTION D-D

TYPE 18 GRATE	TYPE 24 GRATE
a = ⅜"	a = ⅞"
b = ⅜"	b = ¾"

NOTES:

Weight of Type 24 grate = 155 LBS.

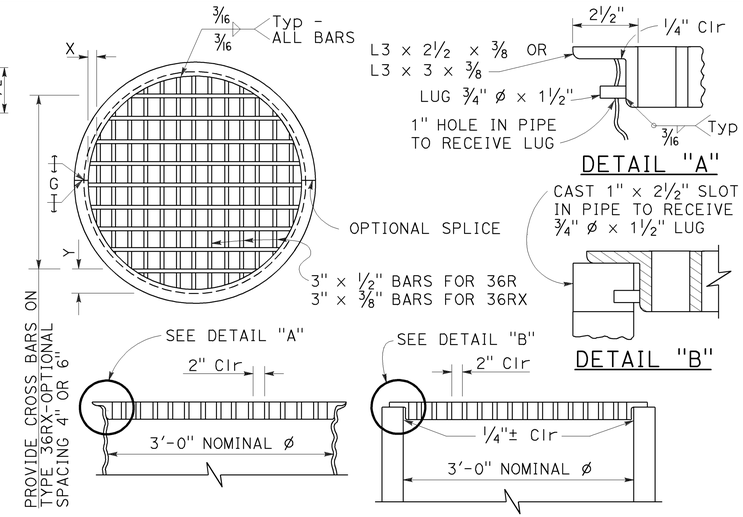
Weight of Type 18 grate = 130 LBS.

On Type 18 grate omit center bearing point.

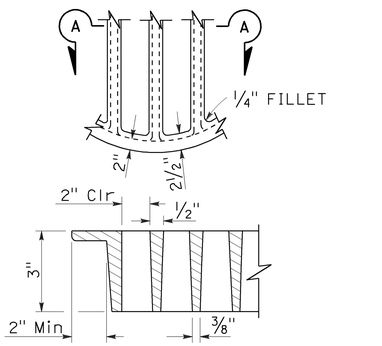
SECTION C-C

TYPE 18-8C AND 24-10C GRATE

(Cast ductile iron)

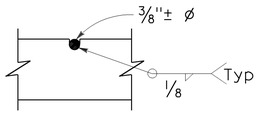


TYPE 36R AND 36RX GRATE DETAILS



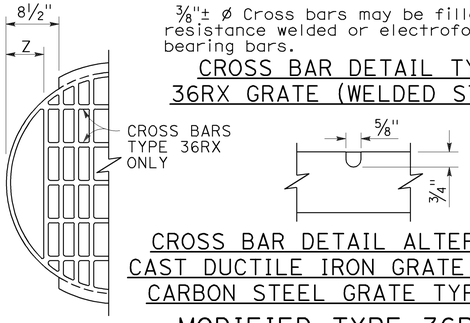
SECTION A-A

ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE TYPE 36R AND 36RX



⅜"± ø Cross bars may be fillet welded, resistance welded or electroforged to bearing bars.

CROSS BAR DETAIL TYPE 36RX GRATE (WELDED STEEL)



CROSS BAR DETAIL ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE TYPE 36RX

MODIFIED TYPE 36R AND 36RX GRATE FOR ODI INLET

BASIS FOR Misc IRON AND STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS

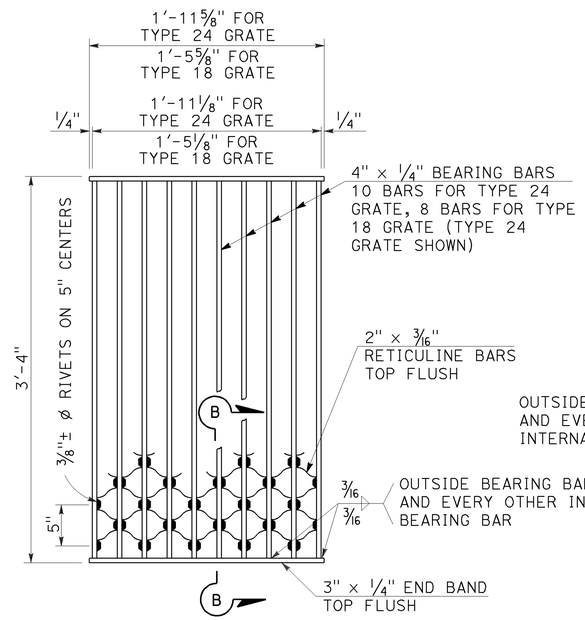
INLET TYPE	GRATE TYPE	No. OF GRATES	WEIGHT LB
GDO (SEE NOTE 4)	24-10C	2	391
	24-10S	2	456
	24-12X	2	473
	24-13	2	374
GO,GOL,G1,G2, G3,G4 (TYPE 24)	24-10C	1	202
	24-10S	1	229
	24-12X	1	239
	24-13	1	188
G4 (TYPE 18) G5,G6	18-8S	1	187
	18-9X	1	187
	18-10	1	149
GT1,GT2	18-8S	2	374
	18-9X	2	374
	18-10	2	298
GT3,GT4	24-10C	2	404
	24-10S	2	458
	24-12X	2	478
	24-13	2	376
ODI	36RX (Mod)	1	196
GMP,GCP,GCPI	36RX	1	215
ODI	36R (Mod)	1	220
GMP,GCP,GCPI	36R	1	236
TRASH RACK			22
GRATE CHAIN			3

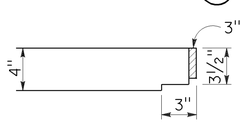
NOTES:

1. When alternative grates are allowed - Final pay based on alternative with the lesser weight.
2. Use frame shown on Standard Plan D74A, D74B or RSP D77A as appropriate.
3. When Type 24-10S, 24-12X or 24-13 grates are used with GDO Inlets, a ¼" × 3½" × 3'-4⅞" steel bar shall be welded across the center of inlet frame to separate the individual grates.
4. See Revised Standard Plan RSP D77A for connecting chain to welded grate and frame. When chain is required, do not use cast ductile iron grate.

GRATE BAR SPACING TABLE

TYPE	No. OF BARS	CLEAR BAR SPACING	X	Y 4" SPACING	Y 6" SPACING	Z
36R	13	2"	2⅛"	-	-	-
36RX (STEEL)	15	2"	9/16"	3¾"	5¾"	-
36RX (CAST)	13	2"	2⅛"	3¾"	5¾"	-
36R Mod	12	2"	2⅛"	-	-	5"
36RX Mod (STEEL)	13	2"	9/16"	3¾"	5¾"	5 11/16"
36RX Mod (CAST)	12	2"	2⅛"	3¾"	5¾"	5"





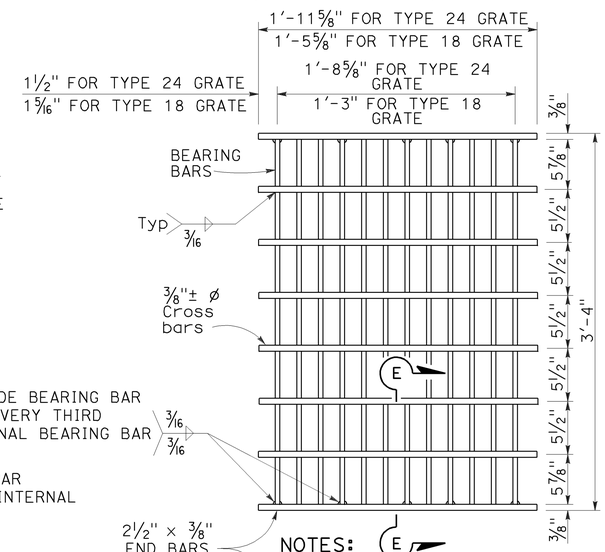
SECTION B-B

NOTES:

Weight of Type 24 grate = 182 LBS.
Weight of Type 18 grate = 145 LBS.

TYPE 18-8S AND 24-10S GRATE

(Welded Steel) Reticuline type



SECTION E-E

NOTES:

Bearing bars to be 3½" × ⅜" bars on 1⅞" centers.

12 Bars for Type 24 grate - 9 bars for Type 18 grates. (Type 24 grate shown).

Weight of Type 24 grate = 192 LBS.

Weight of Type 18 grate = 145 LBS.

⅜"± ø Cross bars may be fillet welded, resistance welded or electroforged to bearing bars.

TYPE 18-9X AND 24-12X GRATE

(Welded Steel)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

GRATE DETAILS No. 2

NO SCALE

RSP D77B DATED APRIL 19, 2013 SUPERSEDES RSP D77B DATED JULY 20, 2012 AND STANDARD PLAN D77B DATED MAY 20, 2011 - PAGE 165 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D77B

4-4-13

TO ACCOMPANY PLANS DATED 12-16-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	80	91

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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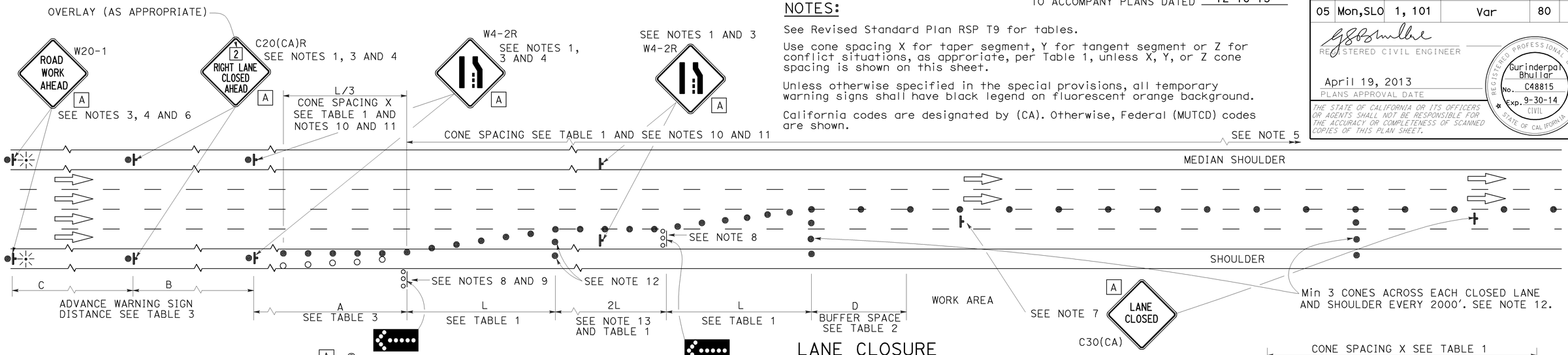
NOTES:

See Revised Standard Plan RSP T9 for tables.

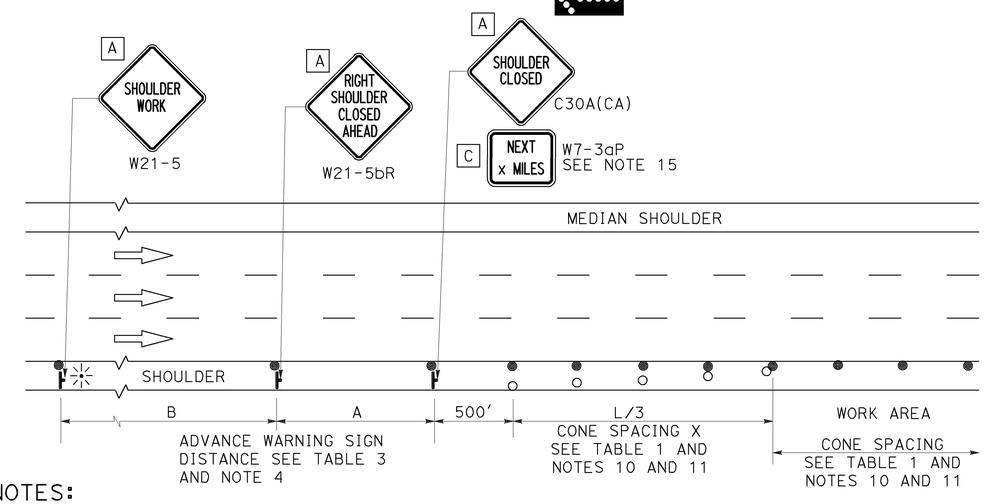
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

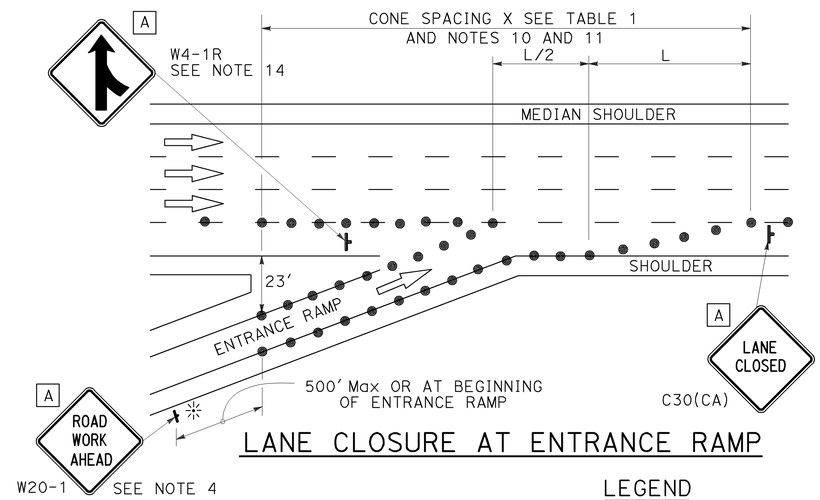
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



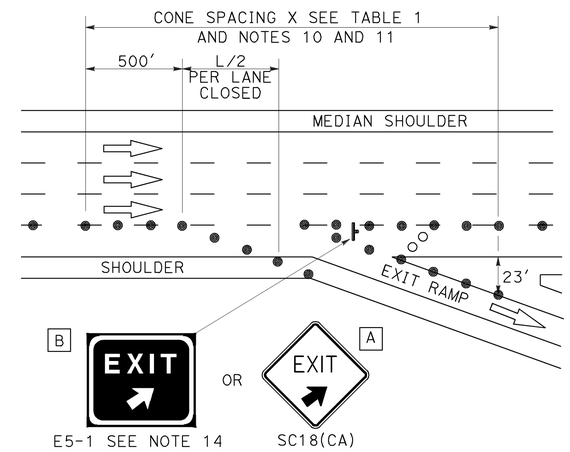
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT____ MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	81	91

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

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 12-16-13

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	82	91

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 12-16-13

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

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	83	91

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 12-16-13

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

7-11-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	84	91

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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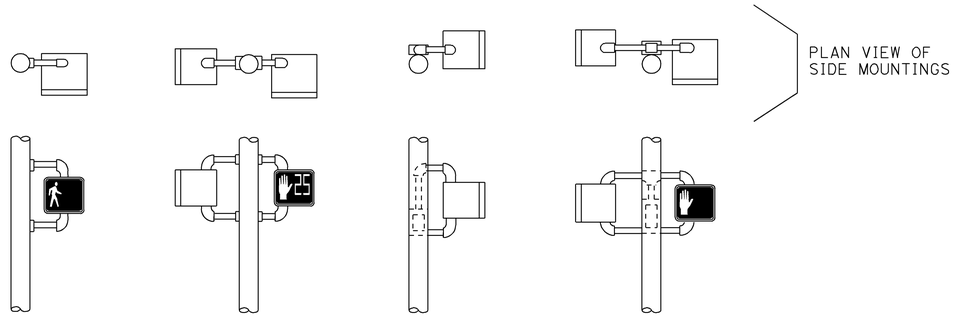
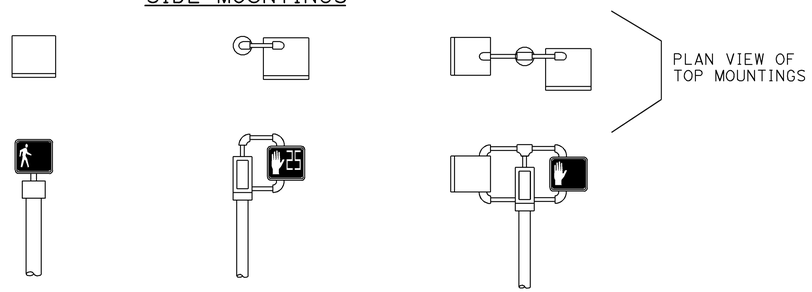
TO ACCOMPANY PLANS DATED 12-16-13



SP-1 SP-2 SP-1-T SP-2-T

SIDE MOUNTINGS



TP-1 TP-1-T TP-2-T

TOP MOUNTINGS

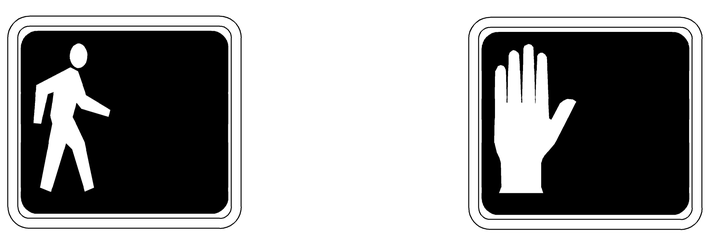
PEDESTRIAN SIGNALS AND MOUNTINGS

DETAIL A

PERSON WALKING INTERVAL FLASHING UPRAISED HAND INTERVAL STEADY UPRAISED HAND INTERVAL

PEDESTRIAN SIGNAL MODULE WITH COUNTDOWN

DETAIL B



PERSON WALKING INTERVAL STEADY UPRAISED HAND INTERVAL

PEDESTRIAN SIGNAL MODULE WITHOUT COUNTDOWN

DETAIL C

NOTES:

1. Mounting shall be oriented to provide maximum horizontal clearance to adjacent roadway.
2. Bracket arms shall be long enough to permit proper alignment of signals.
3. See Standard Plan ES-4D for attachment fittings details.

ABBREVIATIONS:

1, 2	NUMBER OF SIGNAL FACES
SP	SIDE MOUNTED PEDESTRIAN SIGNAL
T	TERMINAL COMPARTMENT
TP	TOP MOUNTED PEDESTRIAN SIGNAL

RAMP METERING SIGN

DETAIL D

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (PEDESTRIAN SIGNAL AND RAMP METERING SIGN)

NO SCALE

RSP ES-4B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-4B DATED MAY 20, 2011 - PAGE 444 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-4B

2010 REVISED STANDARD PLAN RSP ES-4B

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	85	91

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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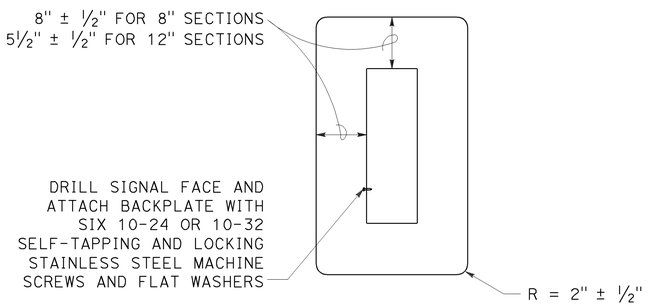
TO ACCOMPANY PLANS DATED 12-16-13

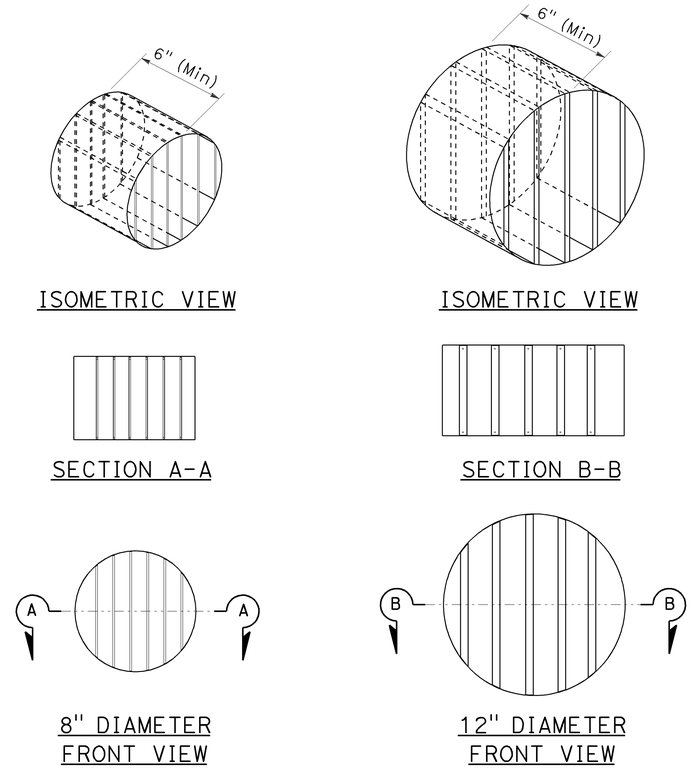
VISORS



8" AND 12" SECTIONS

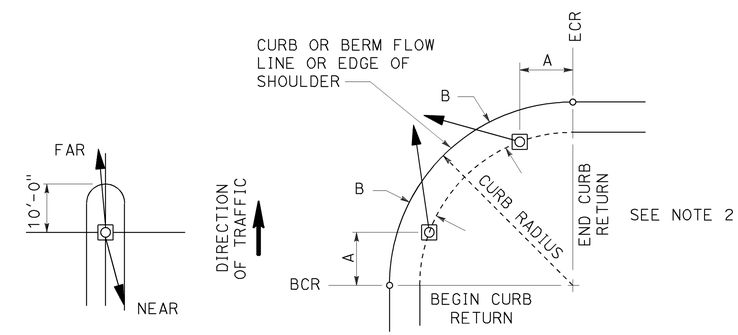
BACKPLATE

1/16" minimum thickness
3001-14 aluminum or plastic
when specified



DIRECTIONAL LOUVER

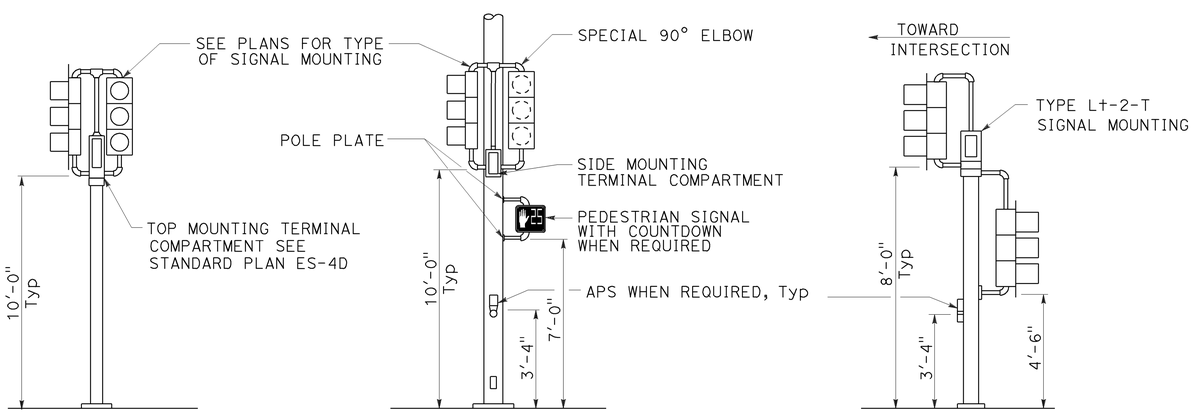
Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For A and B dimensions, see Pole Schedule, or as directed by the Engineer.

SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS

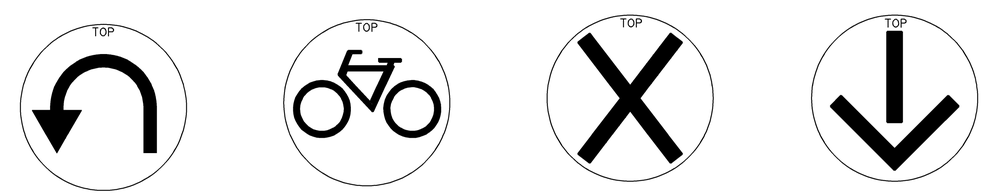


TOP MOUNTED SIGNALS (TV)
Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

SIDE MOUNTED SIGNALS (SV AND SP)
Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL
Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans

TYPICAL SIGNAL INSTALLATIONS



U-TURN | BICYCLE | LANE CONTROL | LANE CONTROL

SIGNAL FACES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (VEHICULAR SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-04C DATED MAY 20, 2011 - PAGE 445 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-4C

2010 REVISED STANDARD PLAN RSP ES-4C

7-10-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	86	91

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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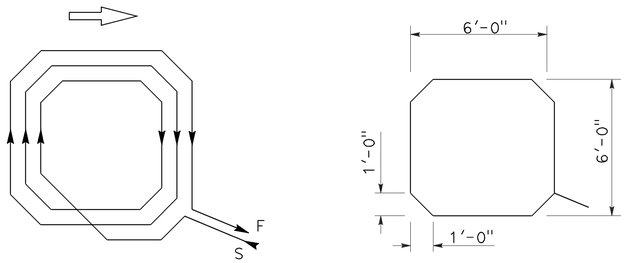
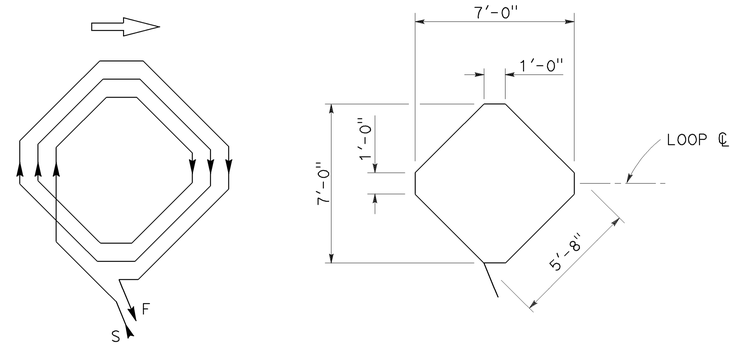
TO ACCOMPANY PLANS DATED 12-16-13



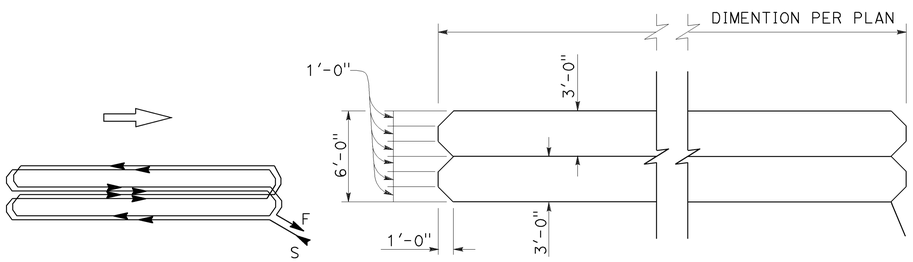
WINDING DETAIL SAWCUT DETAIL

TYPE A LOOP DETECTOR CONFIGURATION



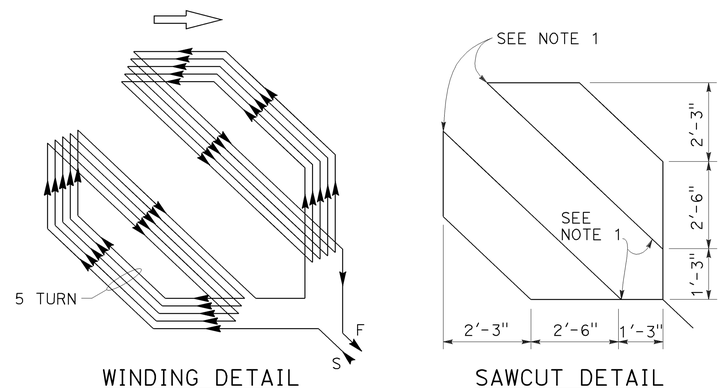
WINDING DETAIL SAWCUT DETAIL

TYPE B LOOP DETECTOR CONFIGURATION



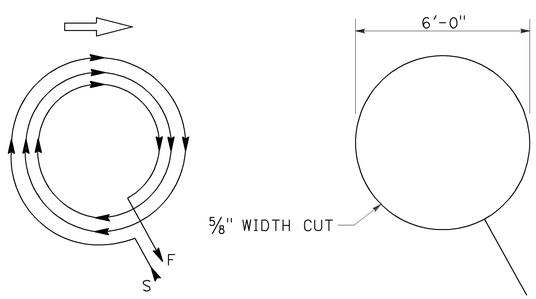
WINDING DETAIL SAWCUT DETAIL

TYPE C LOOP DETECTOR CONFIGURATION



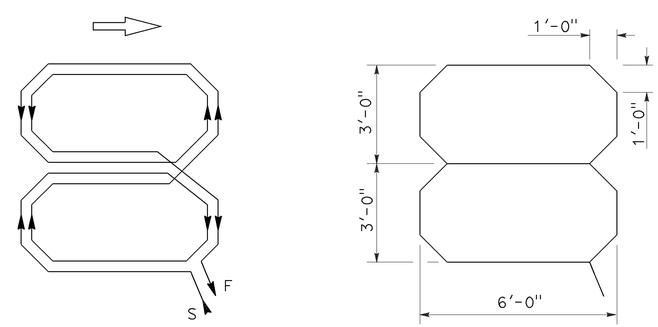
WINDING DETAIL SAWCUT DETAIL

TYPE D LOOP DETECTOR CONFIGURATION



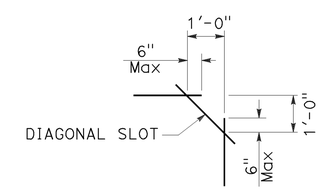
WINDING DETAIL SAWCUT DETAIL

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

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	87	91

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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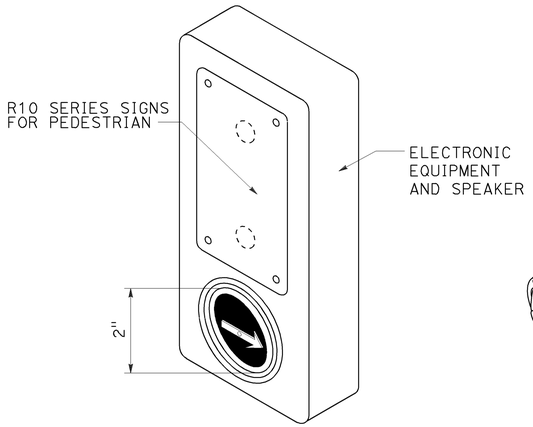
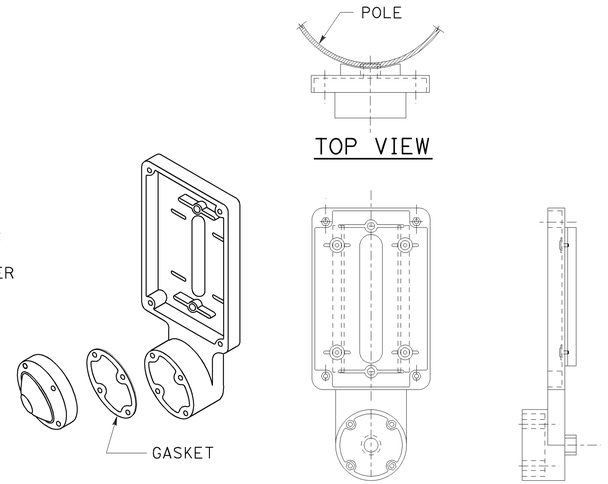
TO ACCOMPANY PLANS DATED 12-16-13

2010 REVISED STANDARD PLAN RSP ES-5C



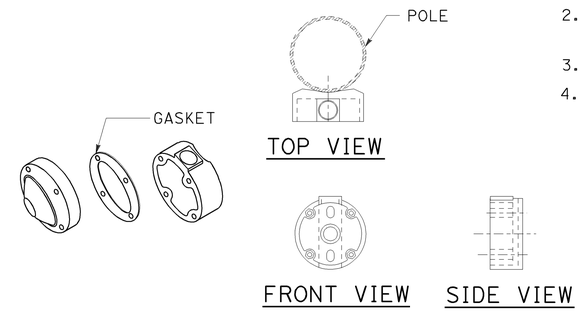
ACCESSIBLE PEDESTRIAN SIGNAL

DETAIL A
(See note 1 to 4)



TYPE B PUSH BUTTON ASSEMBLY

DETAIL B
(See note 1 to 4)

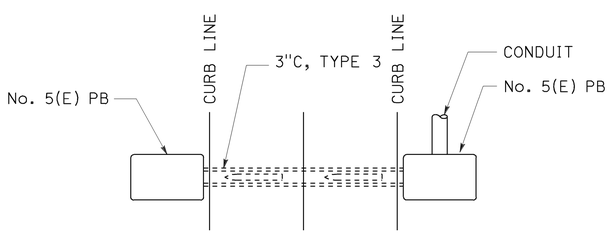


TYPE C PUSH BUTTON ASSEMBLY

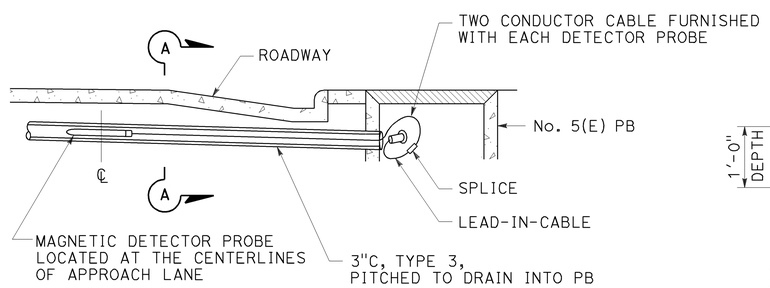
DETAIL C
(See note 1 to 4)

NOTES:

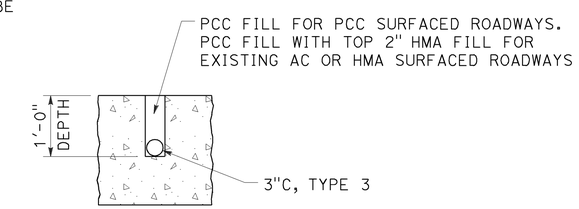
1. Back casting shape to fit curvature of pole.
2. Provide cover fitting for top of post, when PBA is mounted on push button assembly post.
3. Install push button on crosswalk side of standard.
4. Use R10 series regulatory signs and plaques for pedestrian and bicycle facilities.



PLAN



ELEVATION



SECTION A-A

MAGNETIC VEHICLE DETECTOR
INSTALLATION DETAILS
DETAIL D

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (ACCESSIBLE PEDESTRIAN SIGNAL, PUSH BUTTON ASSEMBLIES AND MAGNETIC VEHICLE DETECTOR)

NO SCALE

RSP ES-5C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5C
DATED MAY 20, 2011 - PAGE 450 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5C

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	88	91

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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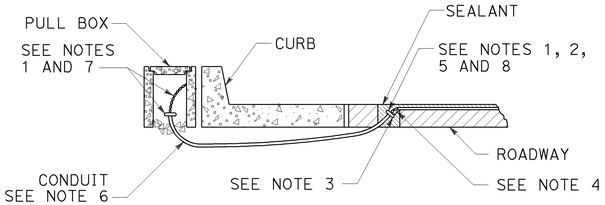
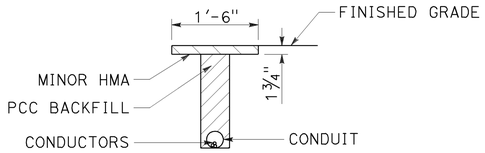
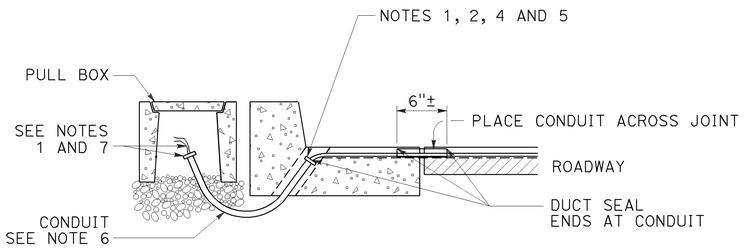
TO ACCOMPANY PLANS DATED 12-16-13



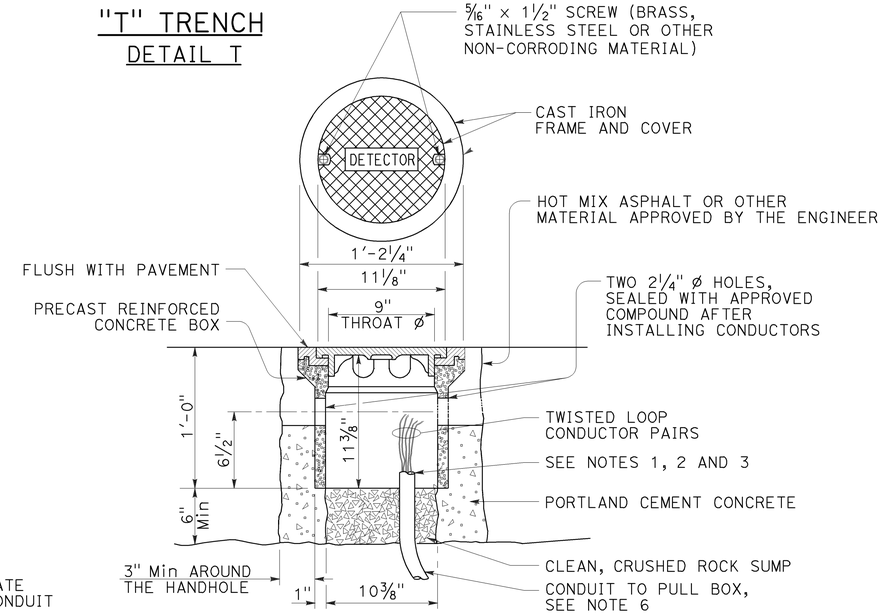
TYPE A
CURB TERMINATION DETAIL



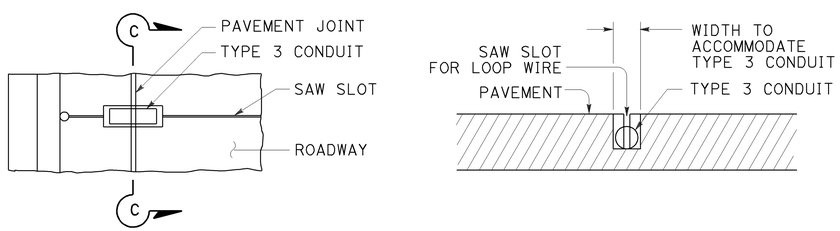
"T" TRENCH
DETAIL T



CROSS SECTION



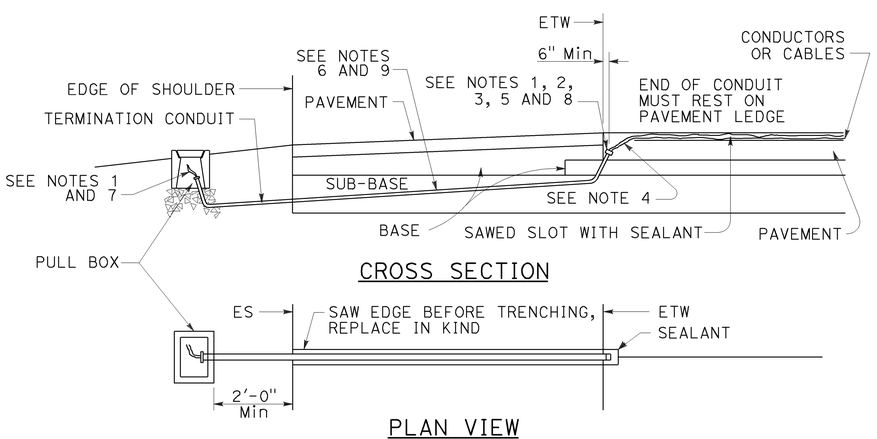
DETECTOR HANDHOLE DETAIL



PLAN VIEW

SECTION C-C

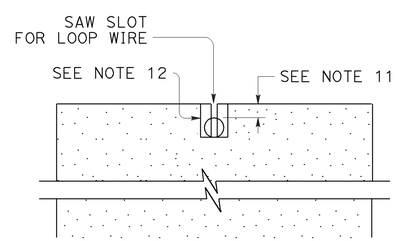
TYPE B
CURB TERMINATION DETAIL



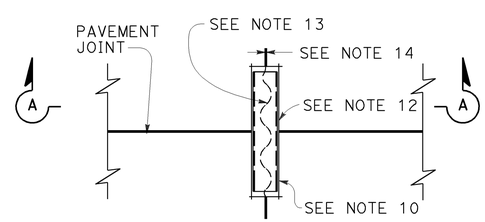
CROSS SECTION

PLAN VIEW

SHOULDER TERMINATION DETAILS

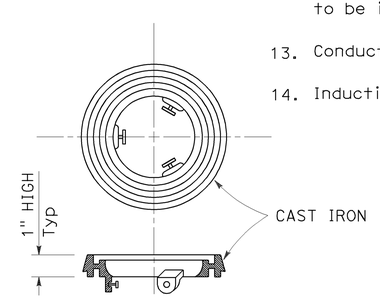


SECTION A-A



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

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	89	91

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Stanley P. Johnson
No. C57793
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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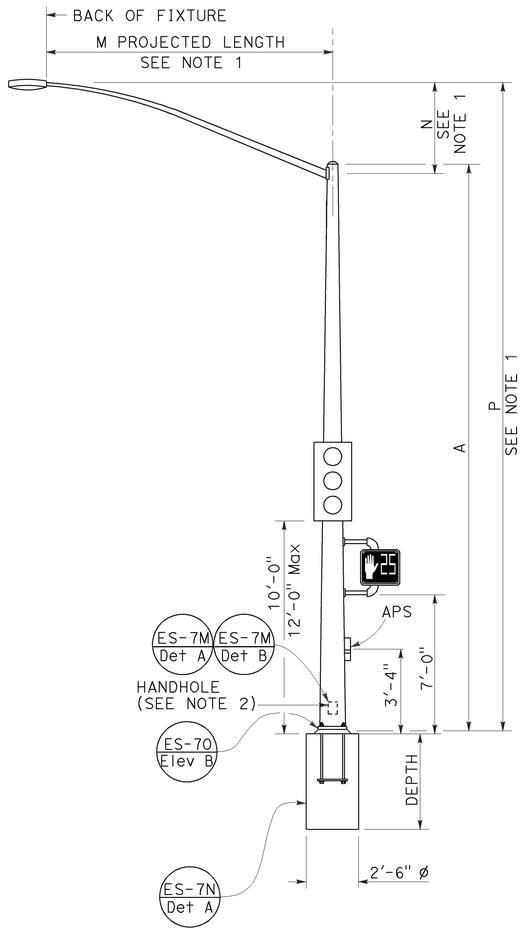
TO ACCOMPANY PLANS DATED 12-16-13

2010 REVISED STANDARD PLAN RSP ES-7A

NOTES:

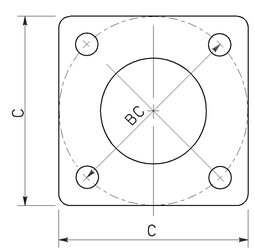
1. For additional notes, details and data for Type 15TS and Type 21TS Standards, see Standard Plan ES-6A.
2. Handhole shall be located on the downstream side of traffic.



TYPE 15TS AND 21TS STANDARD

ELEVATION A

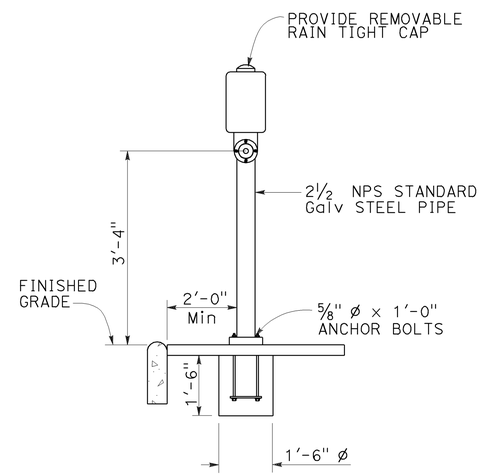
(See Note 1)



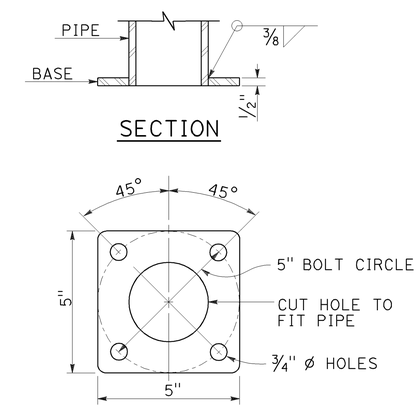
BASE PLATE

TYPE 15TS AND 21TS

DETAIL A



ELEVATION

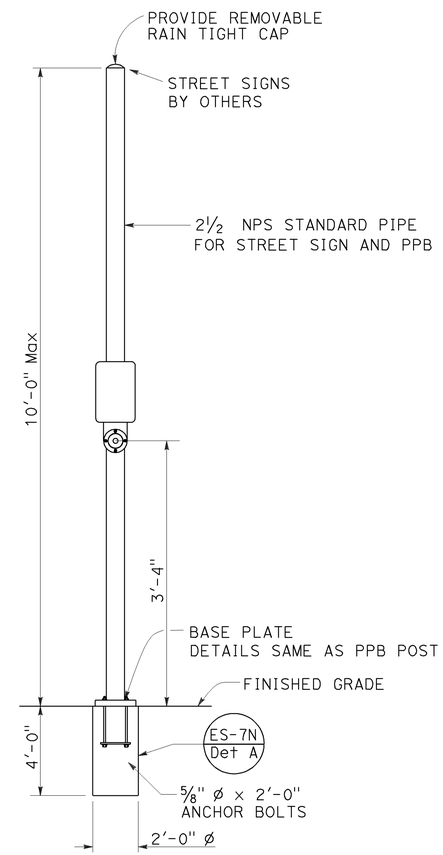


BASE PLATE

PBA POST

PUSH BUTTON ASSEMBLY POST

DETAIL B



COMBINED STREET SIGN
PUSH BUTTON ASSEMBLY POST

DETAIL C

POLE TYPE	POLE DATA				BASE PLATE DATA				CIDH
	A HEIGHT	Min OD BASE	Min OD TOP	WALL THICKNESS	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	DEPTH
15TS	30'-0"	8"	3 11/16"	0.1793"	1'-1½"	1'-0"	2"	1½" ø x 42"	7'-6"
21TS	35'-0"	9⅜"	3 9/16"		1'-3"	1'-2"			8'-6"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, TYPE TS, AND PUSH BUTTON ASSEMBLY POST)

NO SCALE

RSP ES-7A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-7A DATED MAY 20, 2011 - PAGE 462 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-7A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	90	91

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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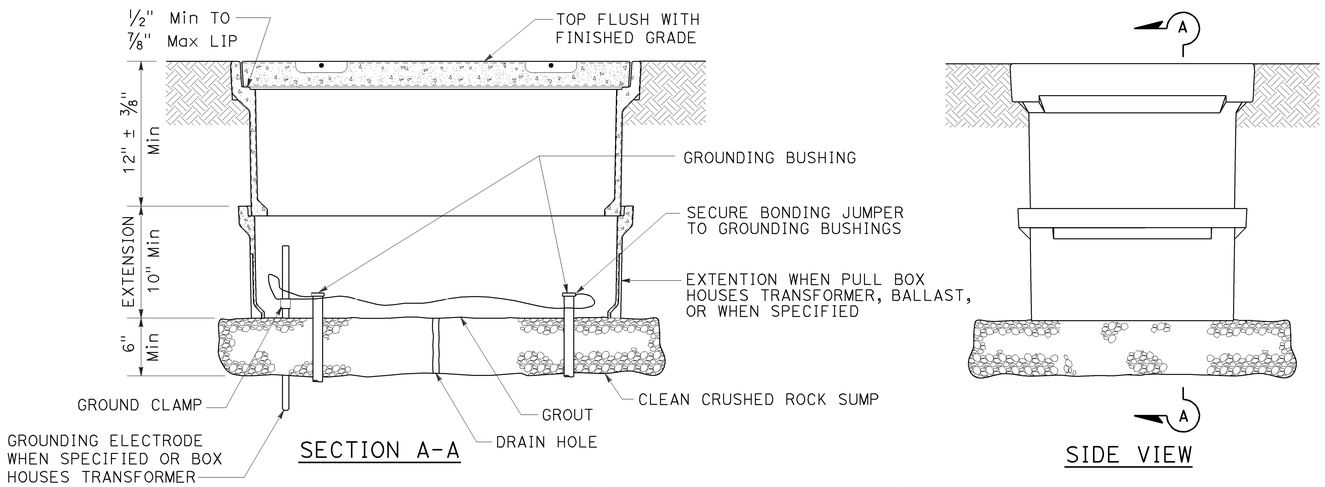
TO ACCOMPANY PLANS DATED 12-16-13

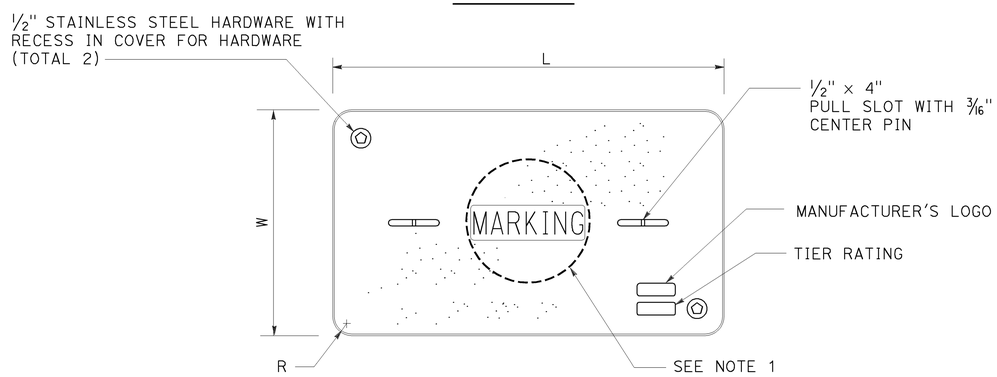


SECTION A-A

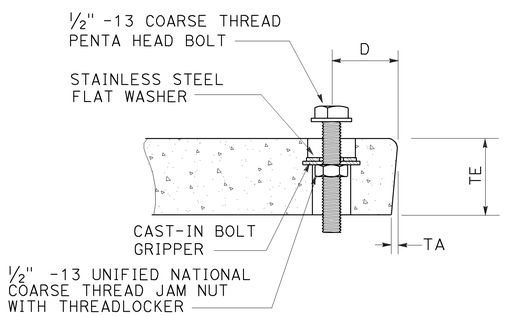
SIDE VIEW

INSTALLATION DETAILS

DETAIL A

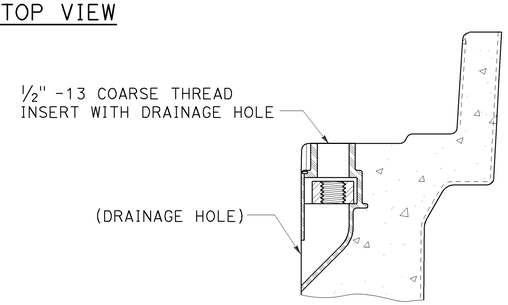


COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT

OR SIMILAR



TYPICAL THREADED INSERT

OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3½	12"	N/A	40 lb	1′ - 3⅜"	10⅛"	1⅜"	2"	⅛"	1¾"	30 lb
No. 5	12"	10"	55 lb	1′ - 11¼"	1′ - 1¾"	1⅜"	2"	⅛"	1¾"	60 lb
No. 6	12"	10"	70 lb	2′ - 6½"	1′ - 5½"	1⅜"	2"	⅛"	2"	85 lb

NOTES:

1. Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
   - A) No. 3½ pull box.
     - 1) "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
     - 2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
   - B) No. 5, 6, 9 or 9A pull box.
     - 1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
     - 2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
     - 3) "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
     - 4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
     - 5) "RAMP METER" - Ramp meter circuits.
     - 6) "COUNT STATION" - Count or speed monitor circuits.
     - 7) "COMMUNICATIONS" - Communication circuits.
     - 8) "TOS COMMUNICATIONS" - TOS communication line.
     - 9) "TOS POWER" - TOS power.
     - 10) "TDC POWER" - Telephone demarcation cabinet power.
     - 11) "CCTV" - Closed circuit television circuits.
     - 12) "TMS" - Traffic monitoring station circuits.
     - 13) "CMS" - Changeable message sign circuits.
     - 14) "HAR" - Highway advisory radio circuits.
     - 15) "BOOSTER PUMP" - Booster pump circuit.
2. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
3. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within ⅛". Top outside radius of covers and pull boxes shall have a ⅛" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
5. All dimensions for the cover for non-traffic pull box are nominal values.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SLO	1, 101	Var	91	91

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Stanley P. Johnson
No. C57793
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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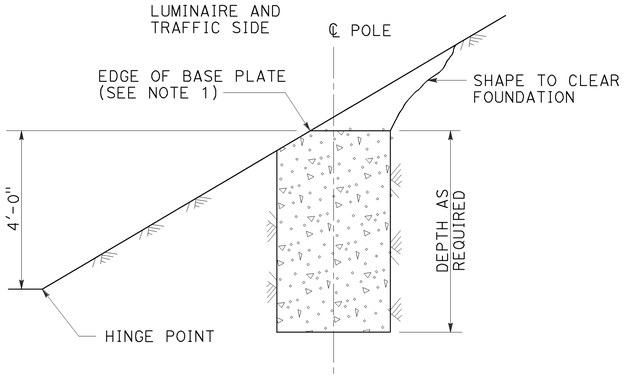
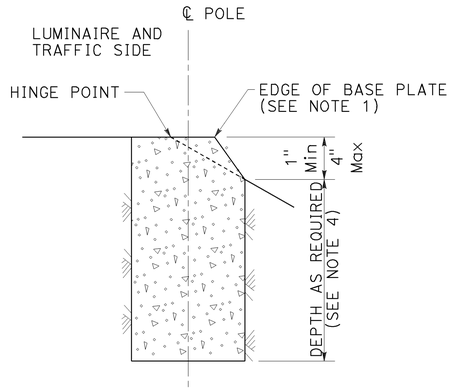
TO ACCOMPANY PLANS DATED 12-16-13

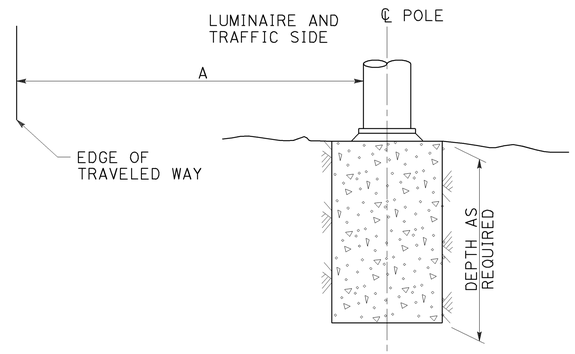
STANDARD TYPE	SETBACK (DIMENSION A)
32	30'-0" (Min)
31	20'-0" (Min)
15, 15D, 15-SB, 21, 21D, 30	ARM LENGTH (Min)



CUT SLOPES
STEEPER THAN 4:1,
LESS THAN 2:1
DETAIL A-1
See Note 2 and 3

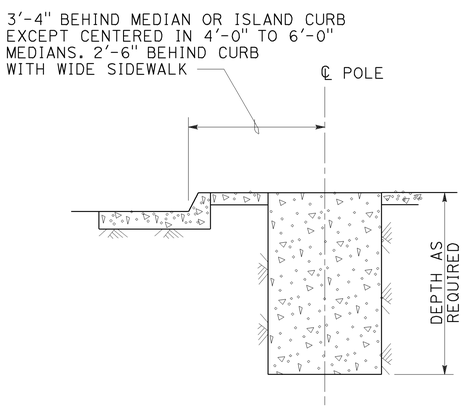


FILL SLOPES
STEEPER THAN 4:1,
LESS THAN 2:1
DETAIL A-2
See Note 2 and 3

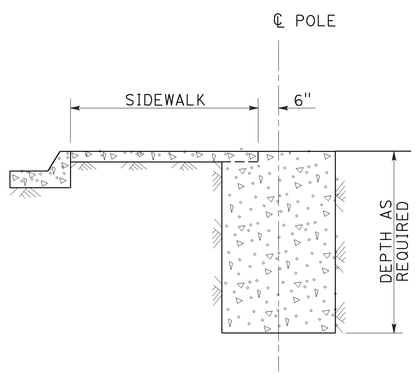


FLAT SECTIONS, CUT OR FILL SLOPES
4:1 OR FLATTER
DETAIL A-3
See Note 2

FOUNDATIONS ADJACENT TO ALL ROADWAYS EXCEPT
IN SIDEWALK, MEDIAN AND ISLAND AREAS
DETAIL A



MEDIAN, ISLAND
OR WIDE SIDEWALK
DETAIL B-1
7' Wide and wider



NARROW SIDEWALK
DETAIL B-2
Less than 7' wide

FOUNDATIONS IN SIDEWALK, MEDIAN AND ISLAND AREAS
DETAIL B

NOTES:

1. Where a portion of the foundation is above grade, the top edges shall have a 1" chamfer.
2. Slopes shall be horizontal to vertical ratio (Horizontal : Vertical).
3. Horizontal setbacks on cut and fill slopes steeper than 4:1 shall not exceed the distance shown for flat sections.
4. CIDH embedment depth shall be increased beyond standard depths by the diameter of the CIDH.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (FOUNDATION INSTALLATIONS)

NO SCALE

RSP ES-11 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-11
DATED MAY 20, 2011 - PAGE 488 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-11

2010 REVISED STANDARD PLAN RSP ES-11

7-9-13