Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	1	75

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
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7	CONSTRUCTION AREA SIGNS
8-22	PAVEMENT DELINEATION PLANS
23-25	PAVEMENT DELINEATION QUANTITIES
26-38	SIGN PLANS
39-49	SIGN DETAILS
50-51	SIGN QUANTITIES
52	SUMMARY OF QUANTITIES
53-63	ELECTRICAL PLANS
64-75	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

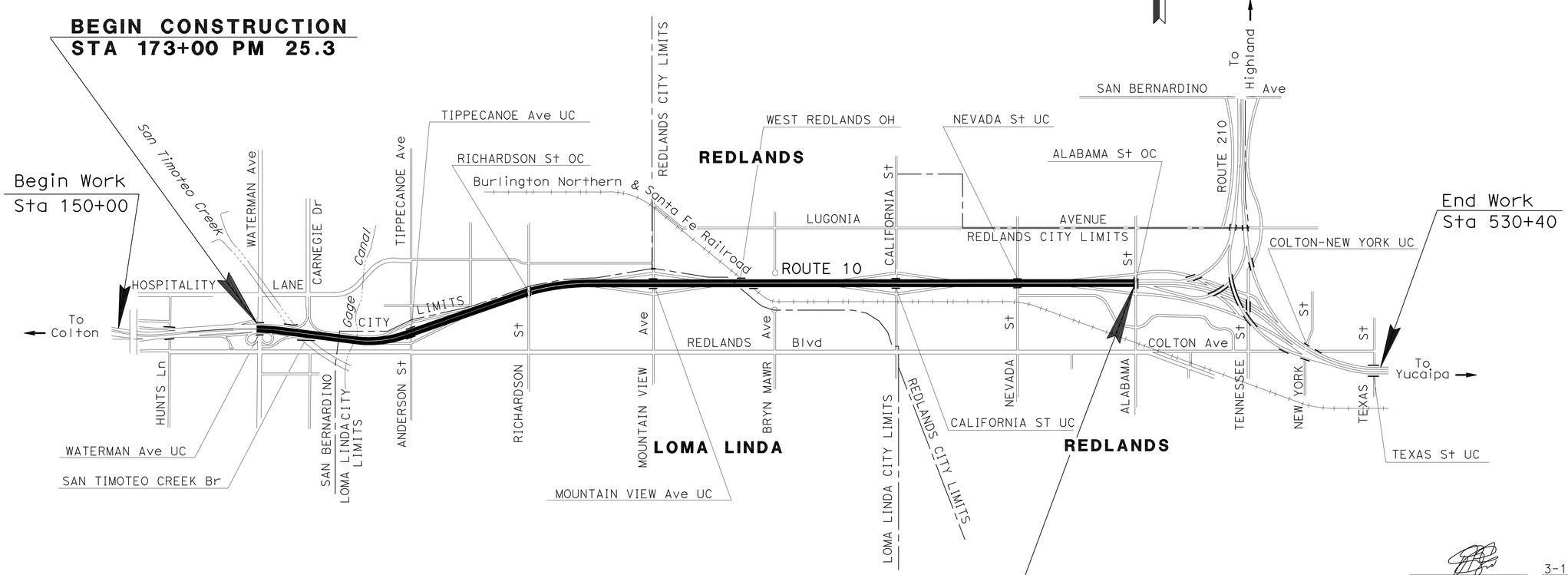
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN BERNARDINO COUNTY
IN SAN BERNARDINO, LOMA LINDA AND REDLANDS
FROM WATERMAN AVENUE UNDERCROSSING
TO ALABAMA STREET OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

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

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 3-10-10

March 10, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SAMER GEORGES No. 73990 Exp. 6-30-11 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.

PROJECT MANAGER: MUSTAPHA IAALI
DESIGN ENGINEER: SAMER GEORGES

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:35

CONTRACT No. **08-0H9304**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	2	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

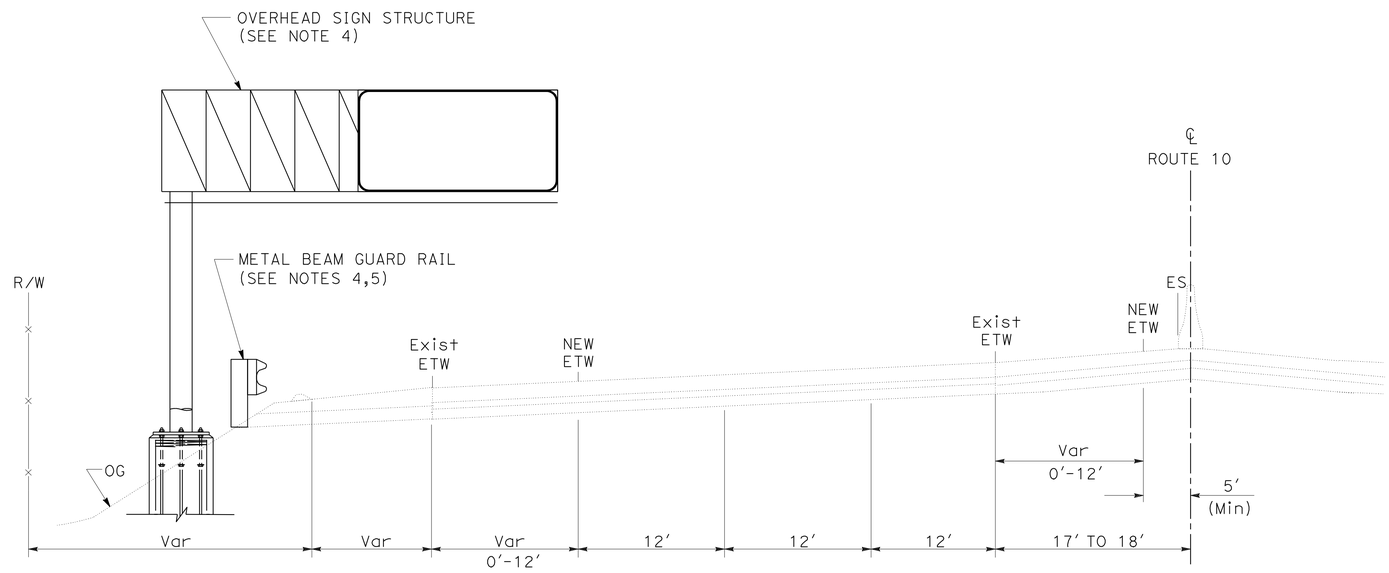
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SAMER GEORGES No. 73990 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR STRIPING DETAILS SEE PAVEMENT DELINEATION PLANS.
4. FOR OVERHEAD SIGN STRUCTURE AND METAL BEAM GUARD RAIL LOCATIONS, SEE LAYOUT PLANS.
5. FOR METAL BEAM GUARD RAIL DETAILS, SEE 2006 STD. PLANS A77C3, A77L2, A77L3, A77H1 AND RSSP A77G3.
6. FOR OVERHEAD SIGN STRUCTURES FOUNDATIONS SEE SHEETS SD-7, SD-8, SD-13 AND SD-16.



ROUTE 10

TYPICAL CROSS SECTION

NO SCALE

X-1

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **DESIGN**

FUNCTIONAL SUPERVISOR: RENEE SASSE

CALCULATED-DESIGNED BY: SAMER GEORGES

CHECKED BY: ANH V. PHAN

REVISED BY

DATE REVISED

LAST REVISION 03-10-10

DATE PLOTTED => 26-MAR-2010

TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	3	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SAMER GEORGES No. 73990 Exp. 6-30-11 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:

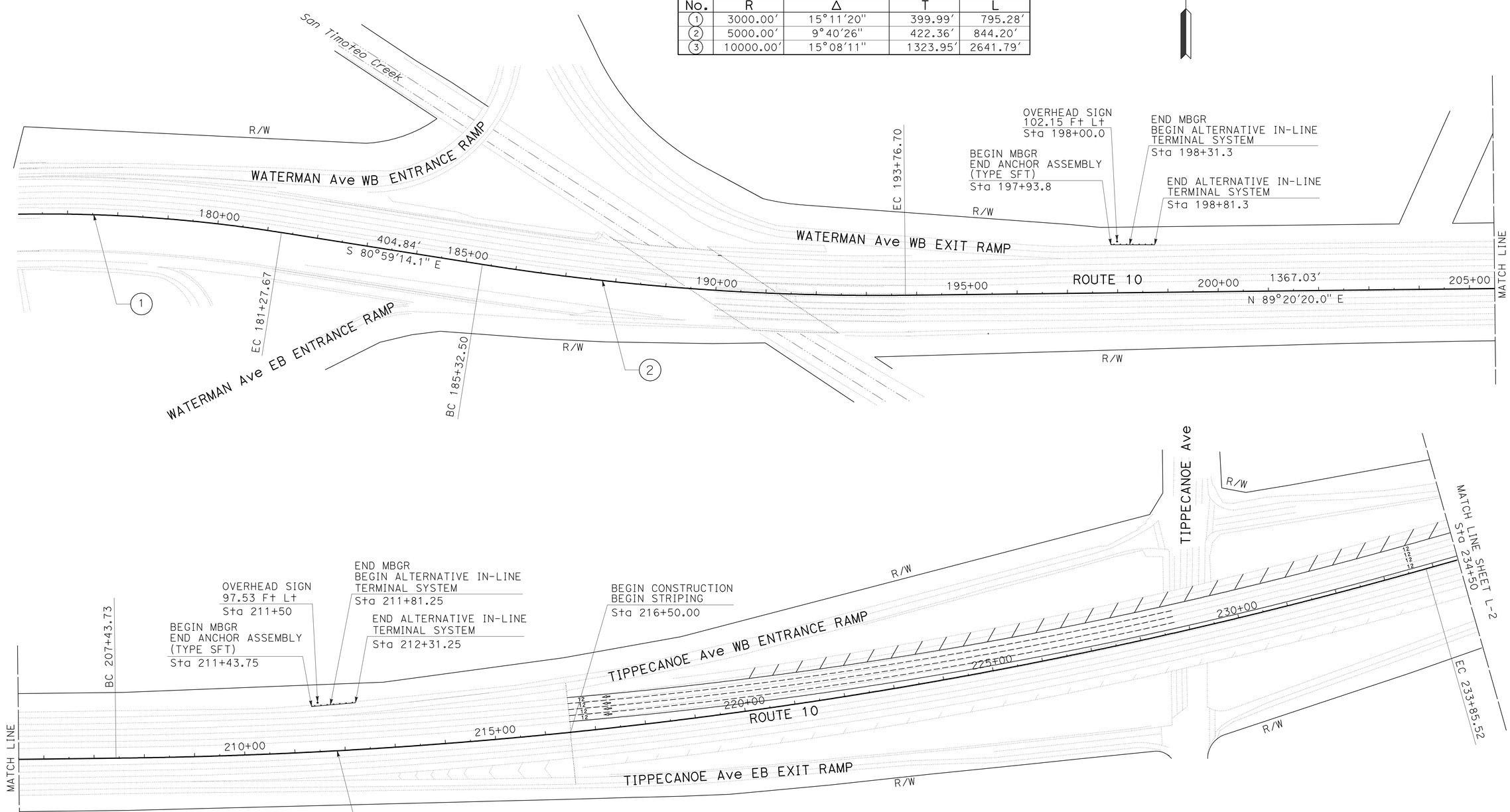
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTE:

1. EXACT LOCATION OF OVER-HEAD SIGN STRUCTURE AND METAL BEAM GUARD RAIL TO BE DETERMINED BY ENGINEER.

CURVE DATA

No.	R	Δ	T	L
1	3000.00′	15°11′20"	399.99′	795.28′
2	5000.00′	9°40′26"	422.36′	844.20′
3	10000.00′	15°08′11"	1323.95′	2641.79′



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

LAYOUT

SCALE: 1" = 100′ **L-1**

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

FUNCTIONAL SUPERVISOR: RENEE SASSE
CALCULATED-DESIGNED BY: SAMER GEORGES
CHECKED BY: ANH V. PHAN
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	4	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SAMER GEORGES No. 73990 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

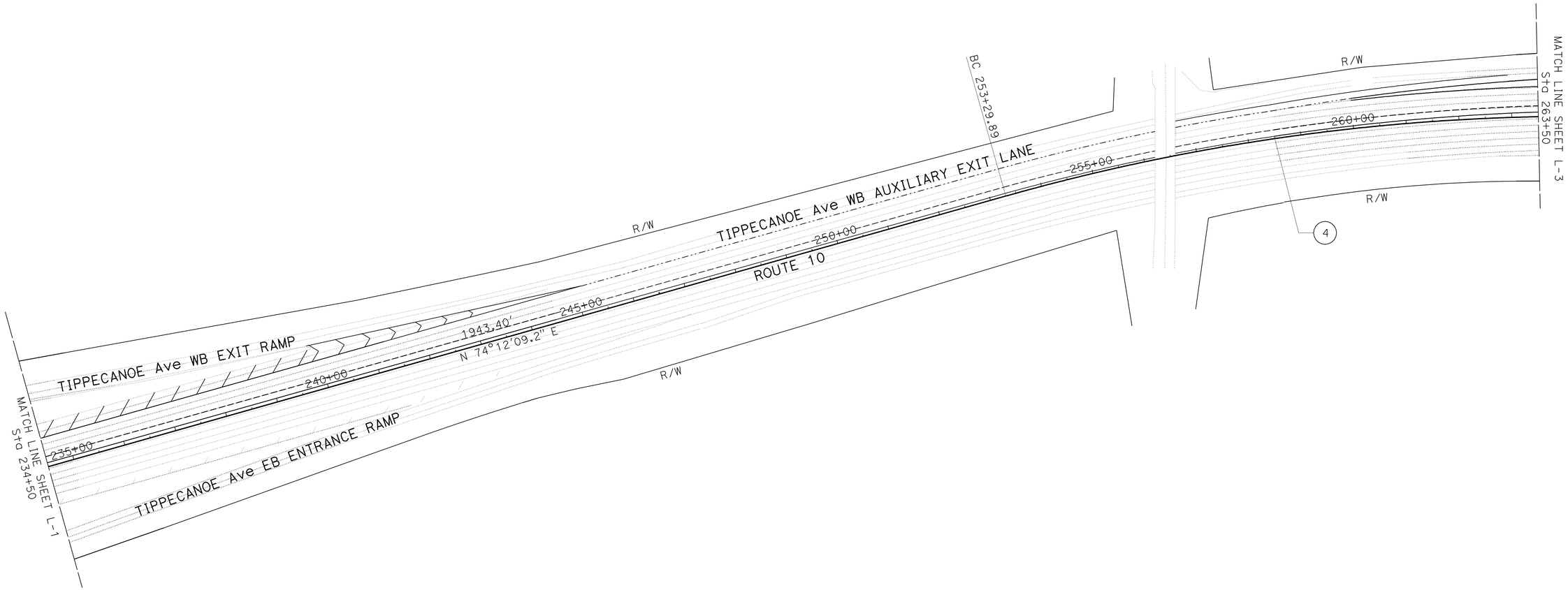
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

CURVE DATA

No.	R	Δ	T	L
4	4000.00′	15°20′54″	538.98′	1071.51′



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

LAYOUT
SCALE: 1″ = 100′ **L-2**

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

FUNCTIONAL SUPERVISOR: RENEE SASSE
CALCULATED-DESIGNED BY: SAMER GEORGES
CHECKED BY: ANH V. PHAN
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	5	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

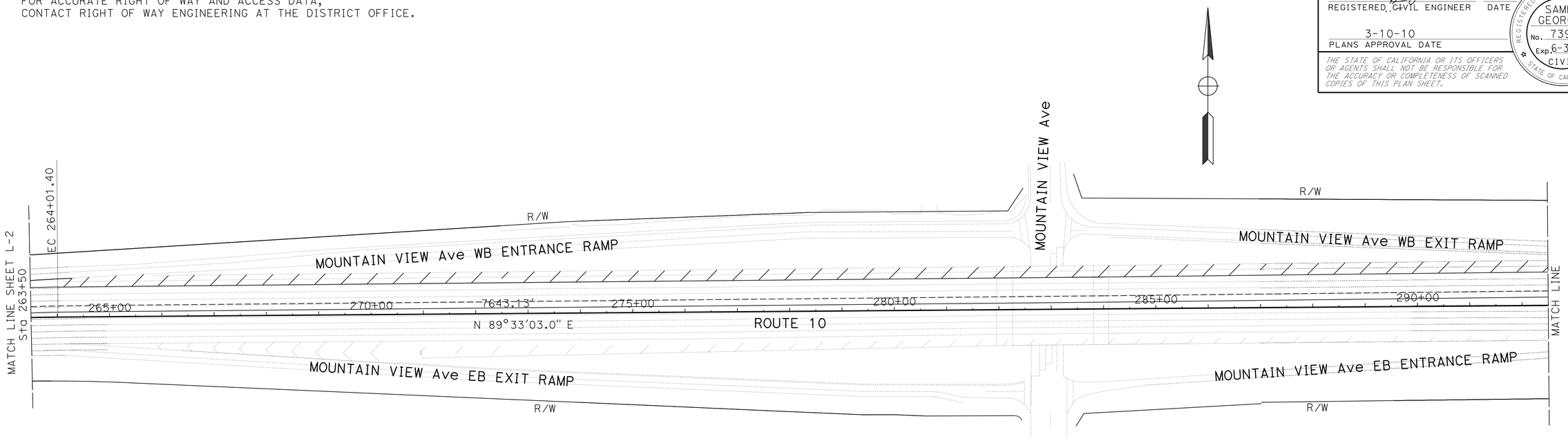
3-10-10
PLANS APPROVAL DATE

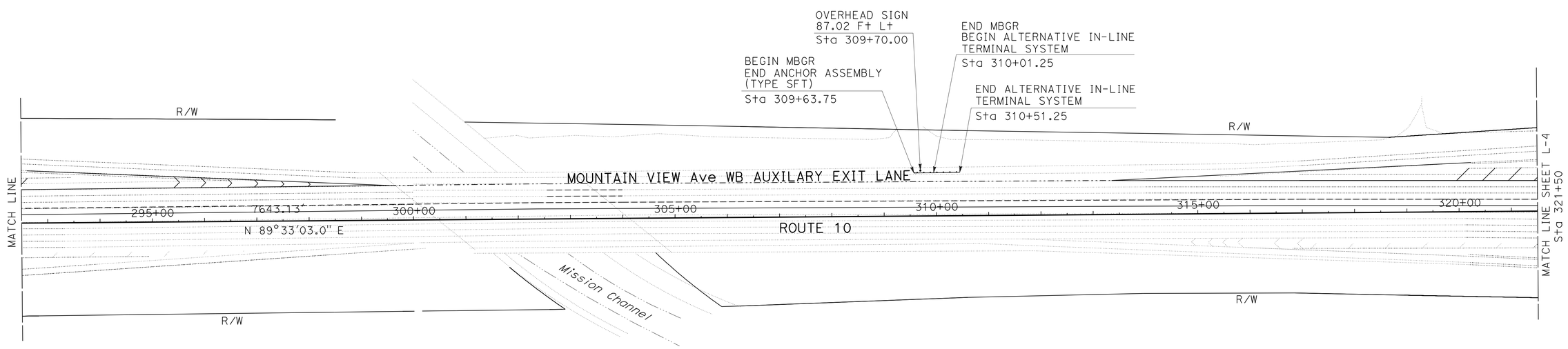
REGISTERED PROFESSIONAL ENGINEER SAMER GEORGES No. 73990 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

LAYOUT

SCALE: 1" = 100' **L-3**

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

FUNCTIONAL SUPERVISOR: RENEE SASSE
CALCULATED-DESIGNED BY: SAMER GEORGES
CHECKED BY: ANH V. PHAN
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	6	75

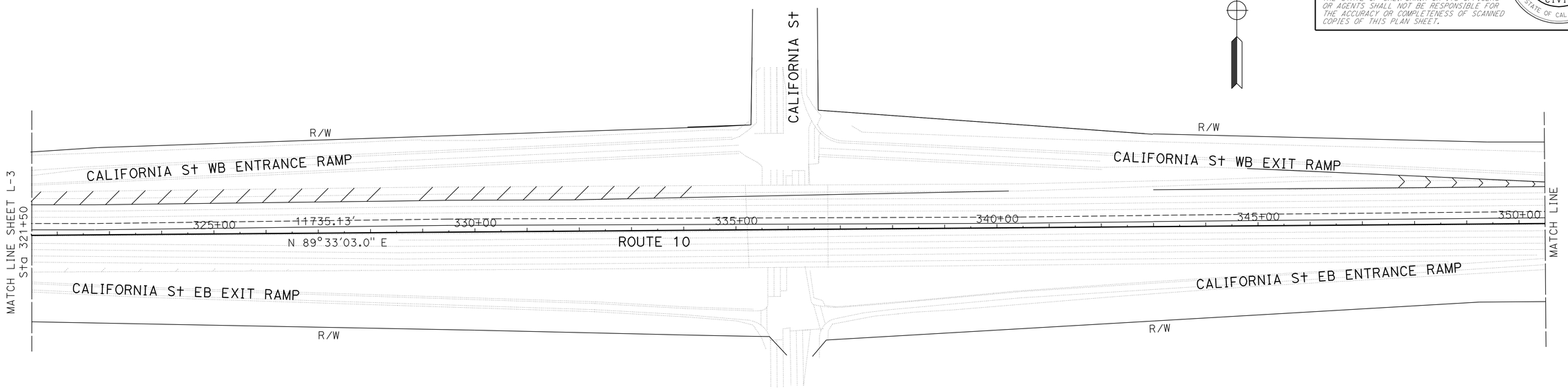
REGISTERED CIVIL ENGINEER 3-10-10 DATE

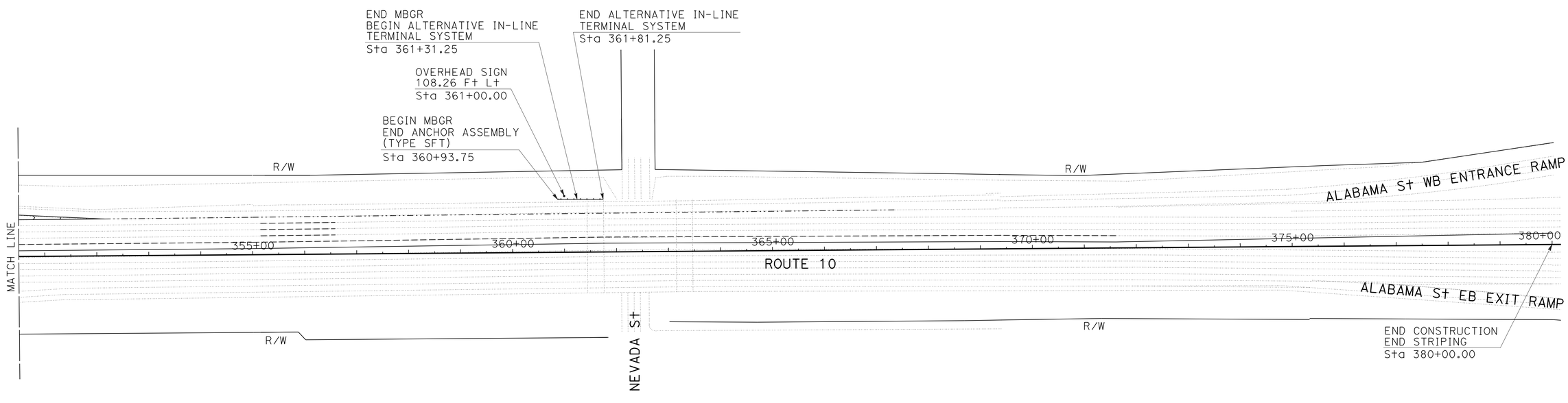
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SAMER GEORGES No. 73990 Exp. 6-30-11 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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

LAYOUT
SCALE: 1" = 100'

L-4

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
SAMER GEORGES	ANH V. PHAN

FUNCTIONAL SUPERVISOR: RENEE SASSE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	7	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

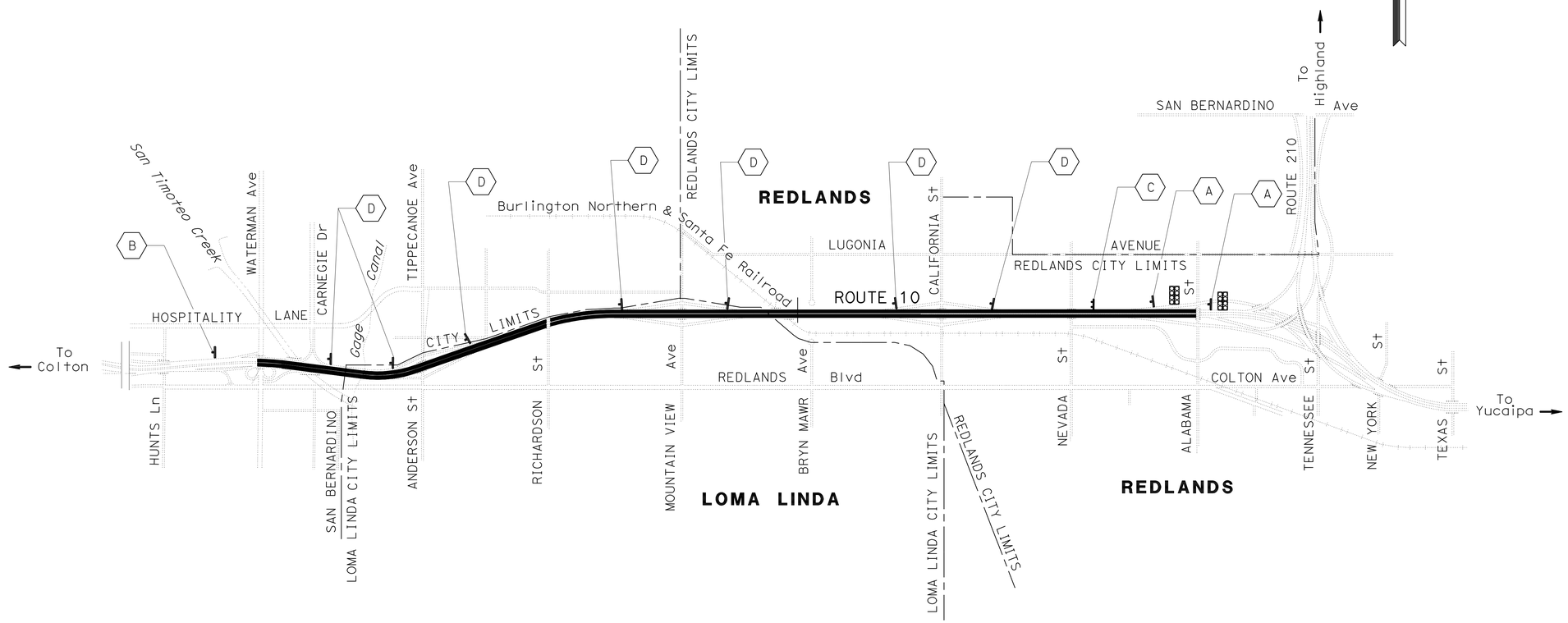
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- CONSTRUCTION AREA
- (XX) CONSTRUCTION AREA SIGN LETTER
- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS AND PORTABLE CHANGEABLE MESSAGE SIGNS ARE APPROXIMATE. EXACT LOCATIONS OF THE CONSTRUCTION AREA SIGNS AND PORTABLE MESSAGE SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. USE STANDARD PLAN T10 AND T14 FOR TRAFFIC CONTROL ON ROUTE 10 FOR LANE AND RAMP CLOSURES DURING CONSTRUCTION ONLY.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	NUMBER OF POSTS AND SIZE	SIGN MESSAGE	No. OF SIGNS
A	W20-1	48" x 48"	1 - 6" x 6"	ROAD WORK AHEAD	2
B	G20-2	18" x 36"	1 - 4" x 4"	END ROAD WORK	1
C	C40(CA)	72" x 36"	2 - 4" x 6"	TRAFFIC FINES DOUBLED IN WORK ZONES	1
D	SC6-4(CA)	48" x 60"	1 - 6" x 6"	RAMP CLOSED(DATE,TIME MORE THAN 1 DAY)	7
TOTAL					11

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

EA
2

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	8	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

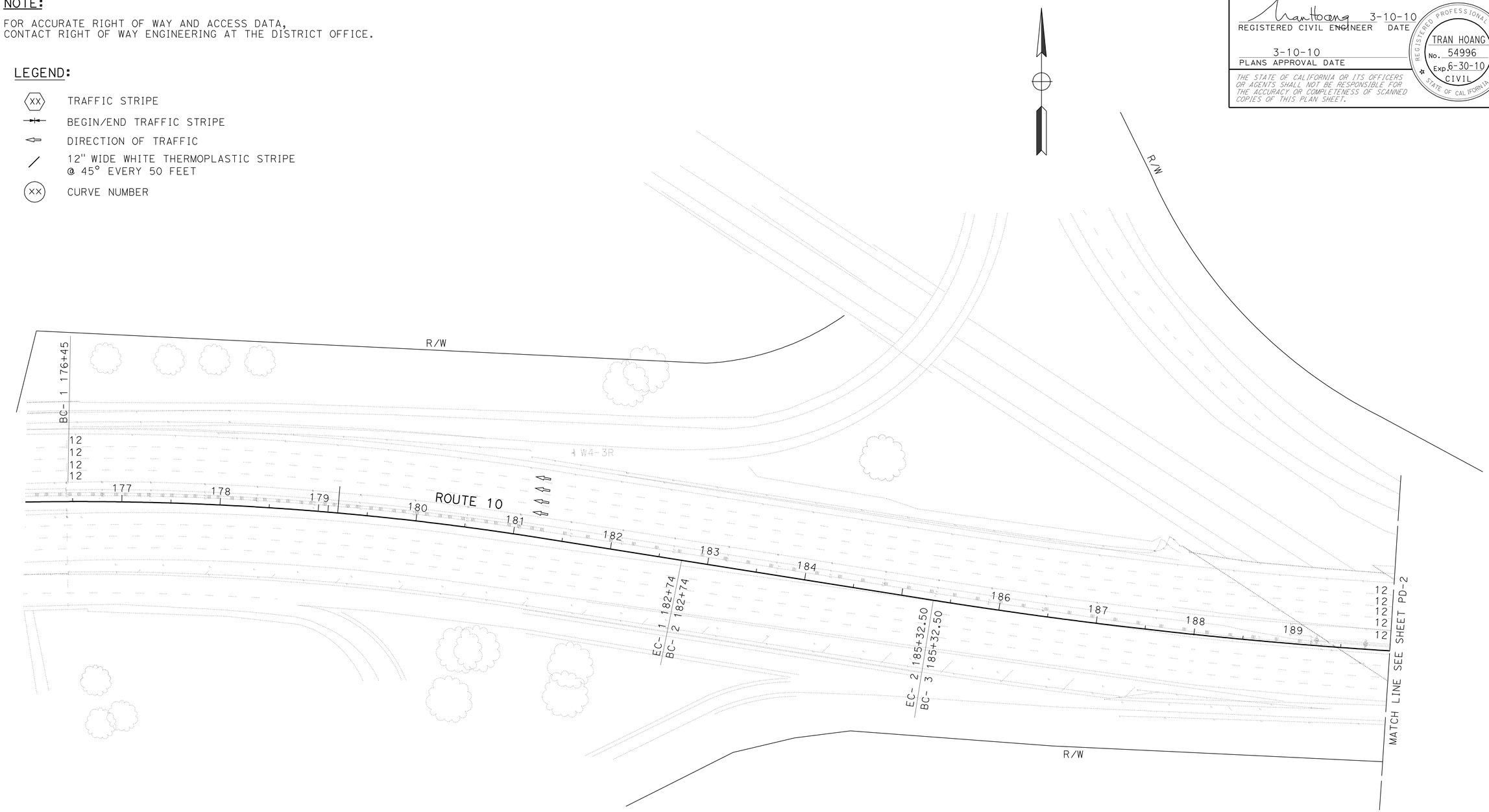
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

LEGEND:

- (XX) TRAFFIC STRIPE
- BEGIN/END TRAFFIC STRIPE
- DIRECTION OF TRAFFIC
- 12" WIDE WHITE THERMOPLASTIC STRIPE @ 45° EVERY 50 FEET
- (XX) CURVE NUMBER



PAVEMENT DELINEATION PLAN

NO SCALE

PD-1

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	9	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
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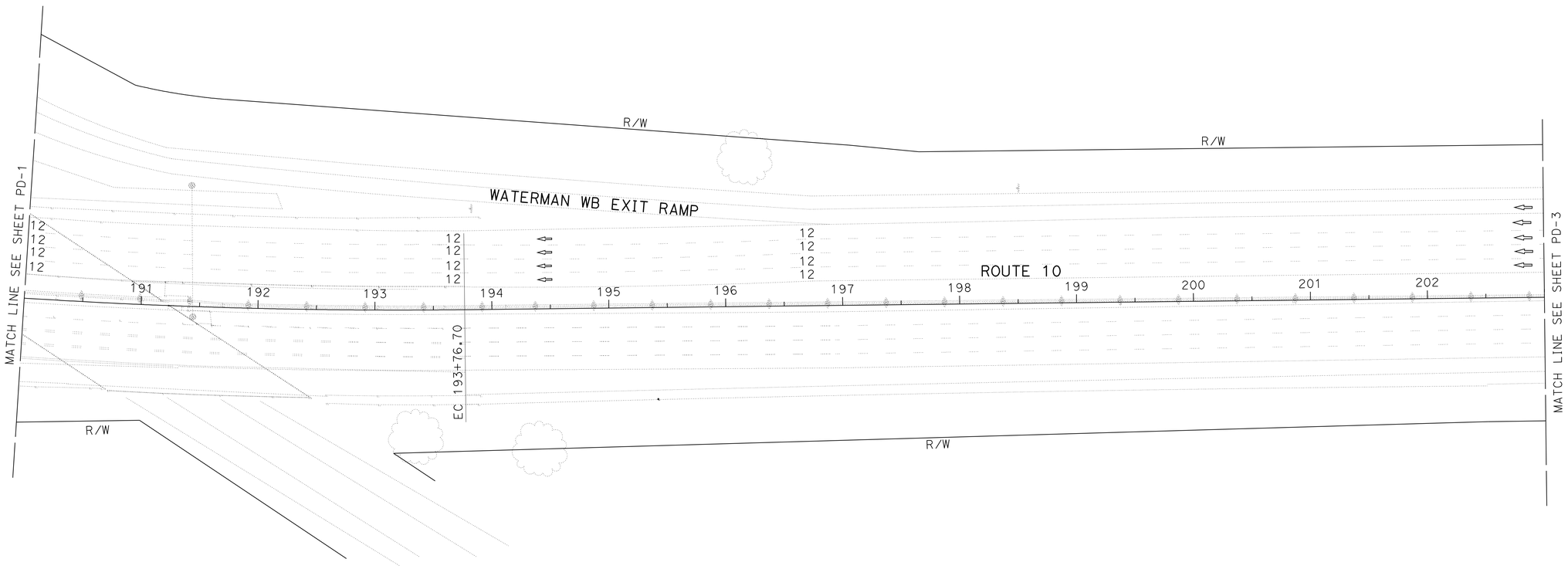


PAVEMENT DELINEATION PLAN

NO SCALE

PD-2

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930na002.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	10	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

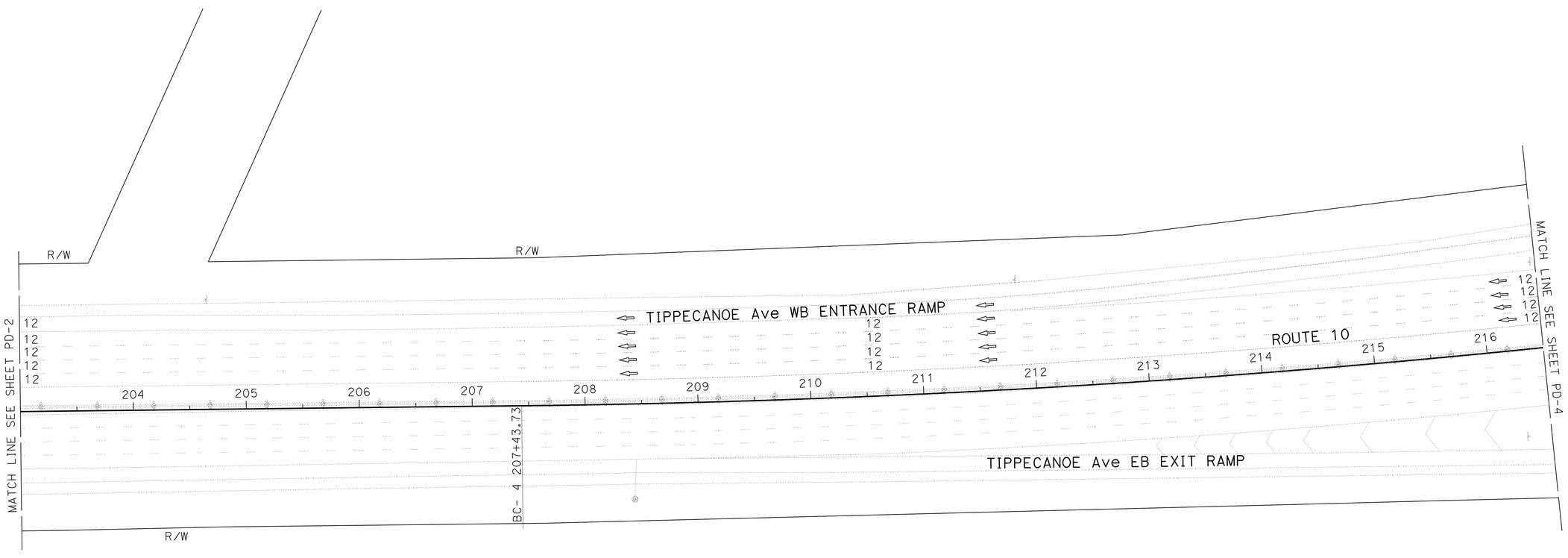
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

NO SCALE

PD-3

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => fandres
DGN FILE => 80h930na003.dgn

CU 08381

EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	11	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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NOTE:

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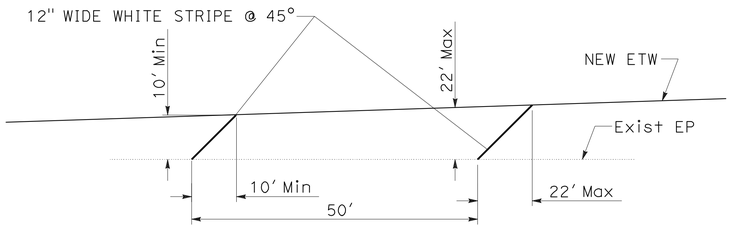
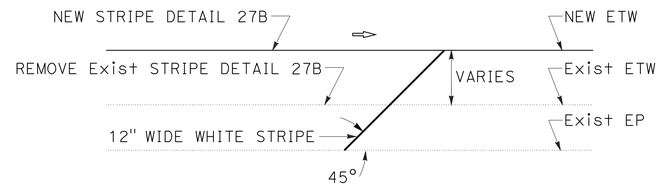
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



TYPICAL DIMENSIONS OF 12" WIDE WHITE THERMOPLASTIC STRIPE @ 45°

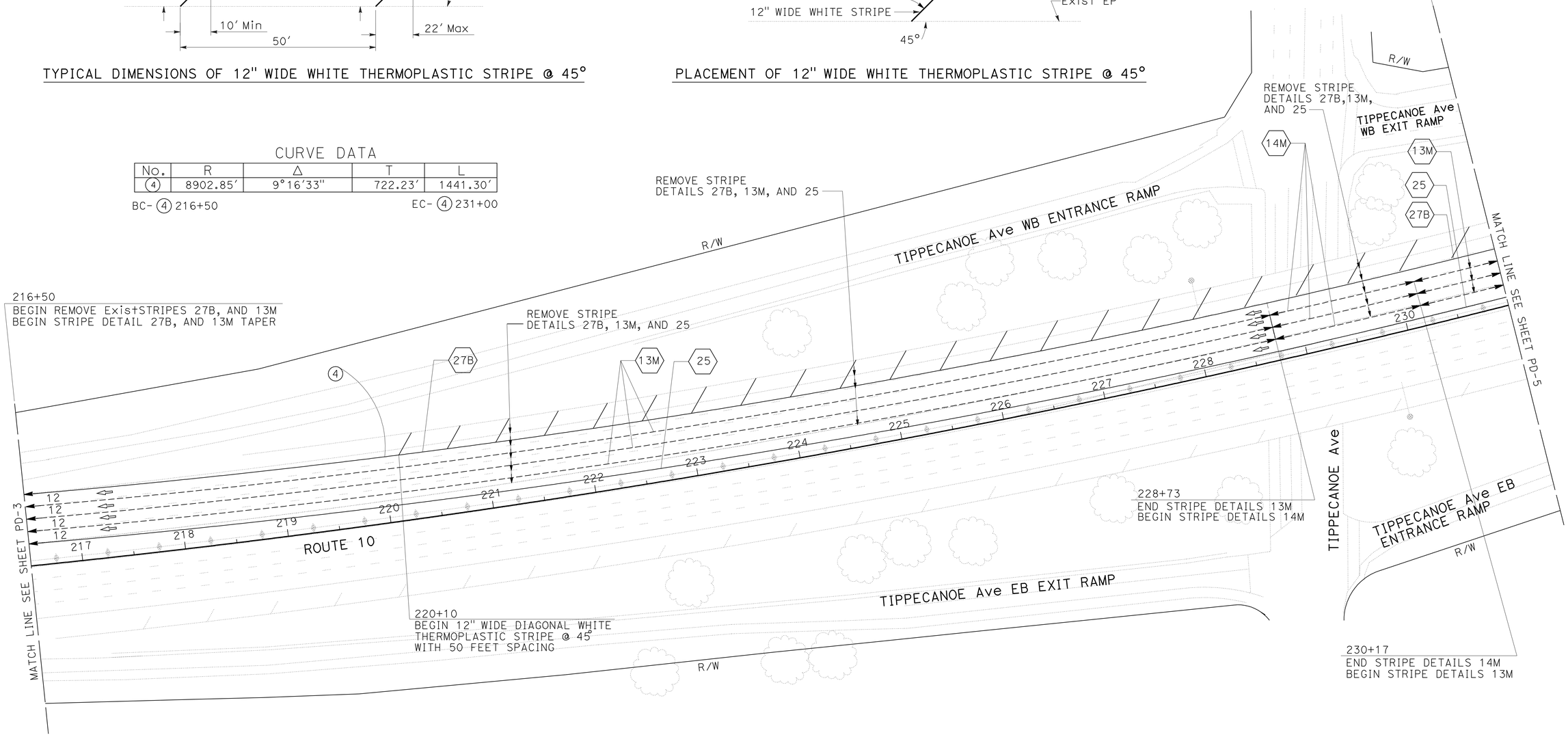


PLACEMENT OF 12" WIDE WHITE THERMOPLASTIC STRIPE @ 45°

CURVE DATA

No.	R	Δ	T	L
4	8902.85'	9°16'33"	722.23'	1441.30'

BC- 4 216+50 EC- 4 231+00



PAVEMENT DELINEATION PLAN

NO SCALE

PD-4

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	12	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

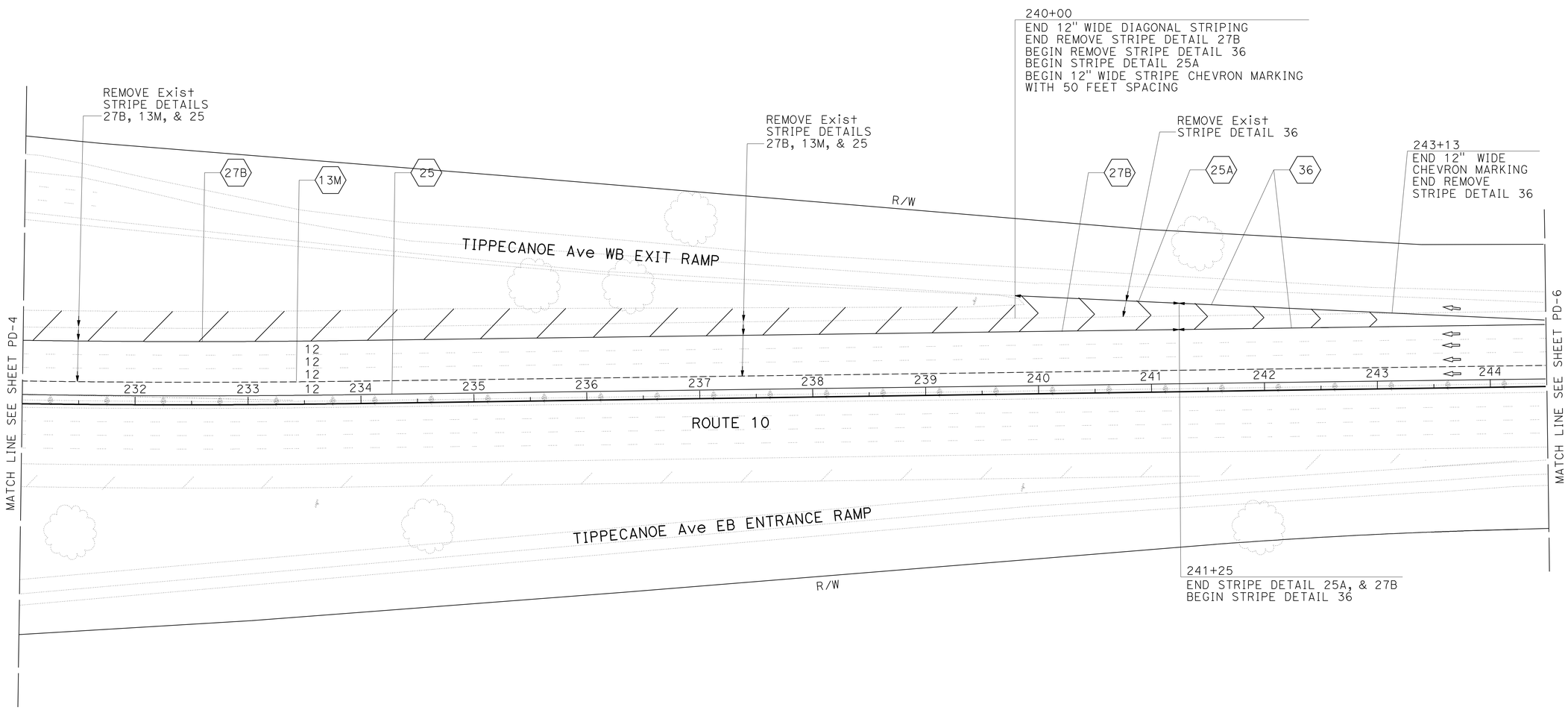
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

NO SCALE

PD-5

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930na005.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	13	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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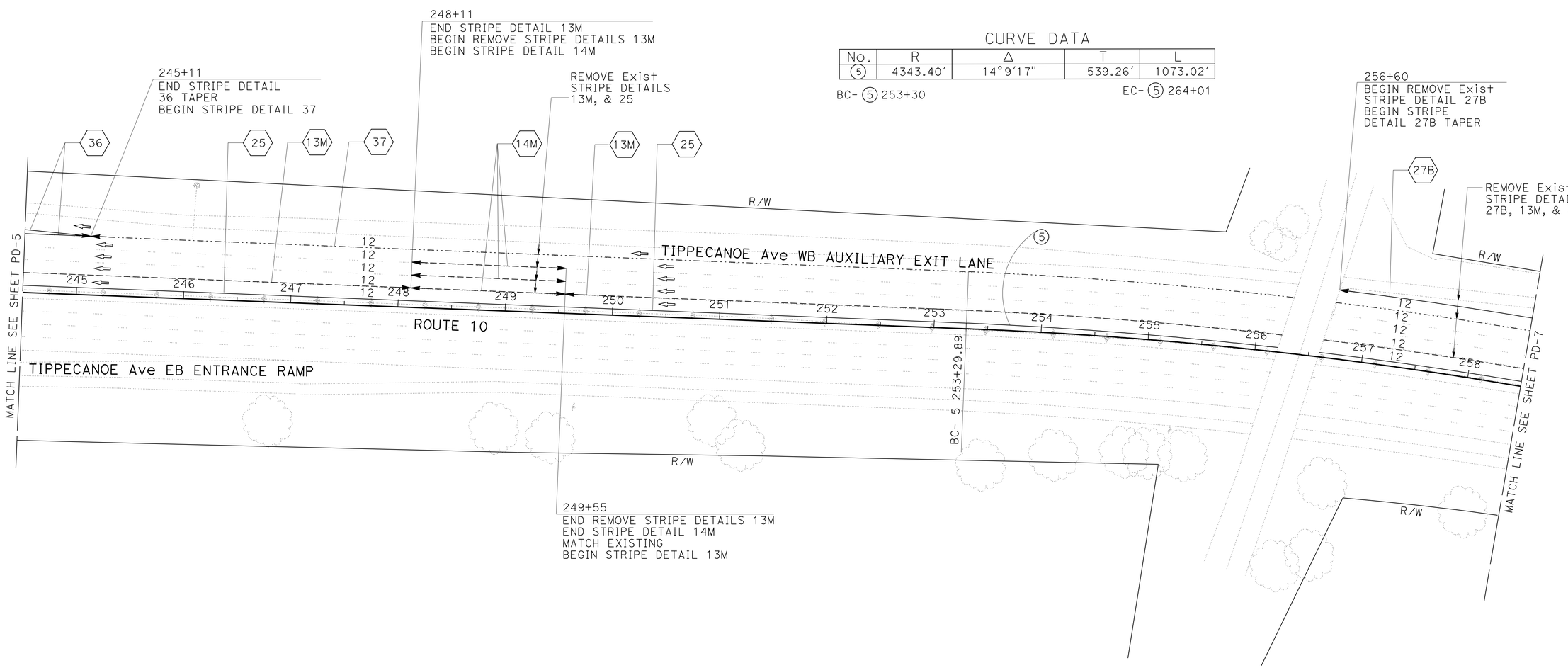
NOTE:

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

CURVE DATA

No.	R	Δ	T	L
5	4343.40′	14°9′17″	539.26′	1073.02′

BC- 5 253+30 EC- 5 264+01



PAVEMENT DELINEATION PLAN

NO SCALE

PD-6

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	14	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

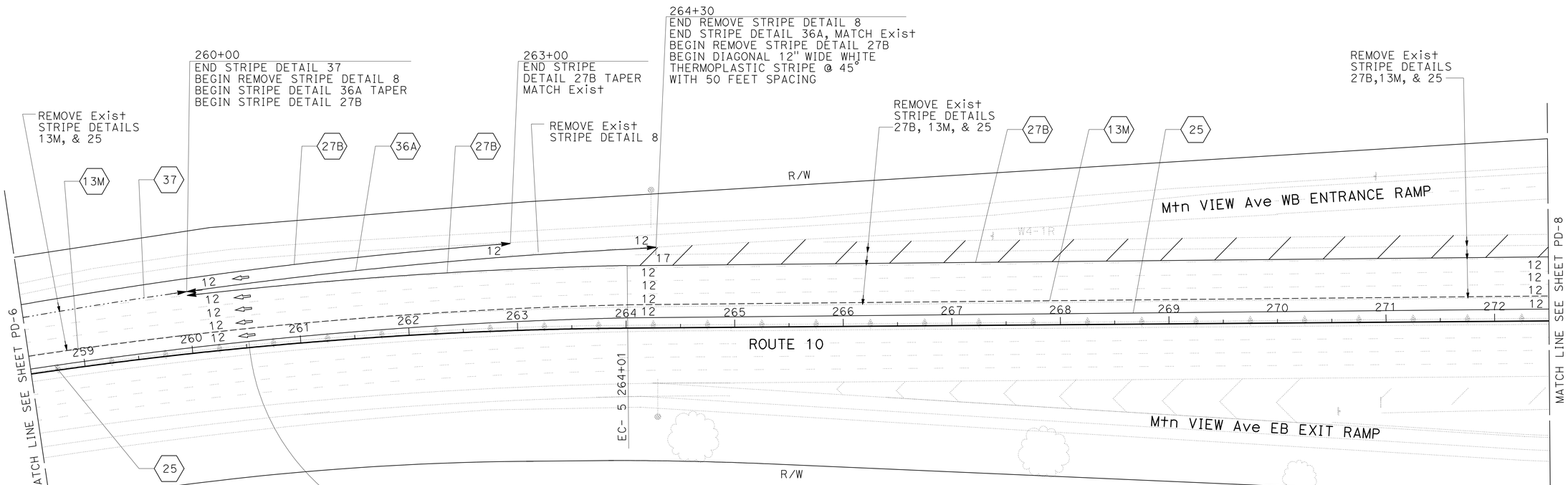
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	Δ	T	L
5	4343.40′	14°9′17"	539.26′	1073.02′

BC- 5 253+30 EC- 5 264+01

PAVEMENT DELINEATION PLAN

NO SCALE

PD-7

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => fandres | DGN FILE => 80h930na007.dgn | CU 08381 | EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	15	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

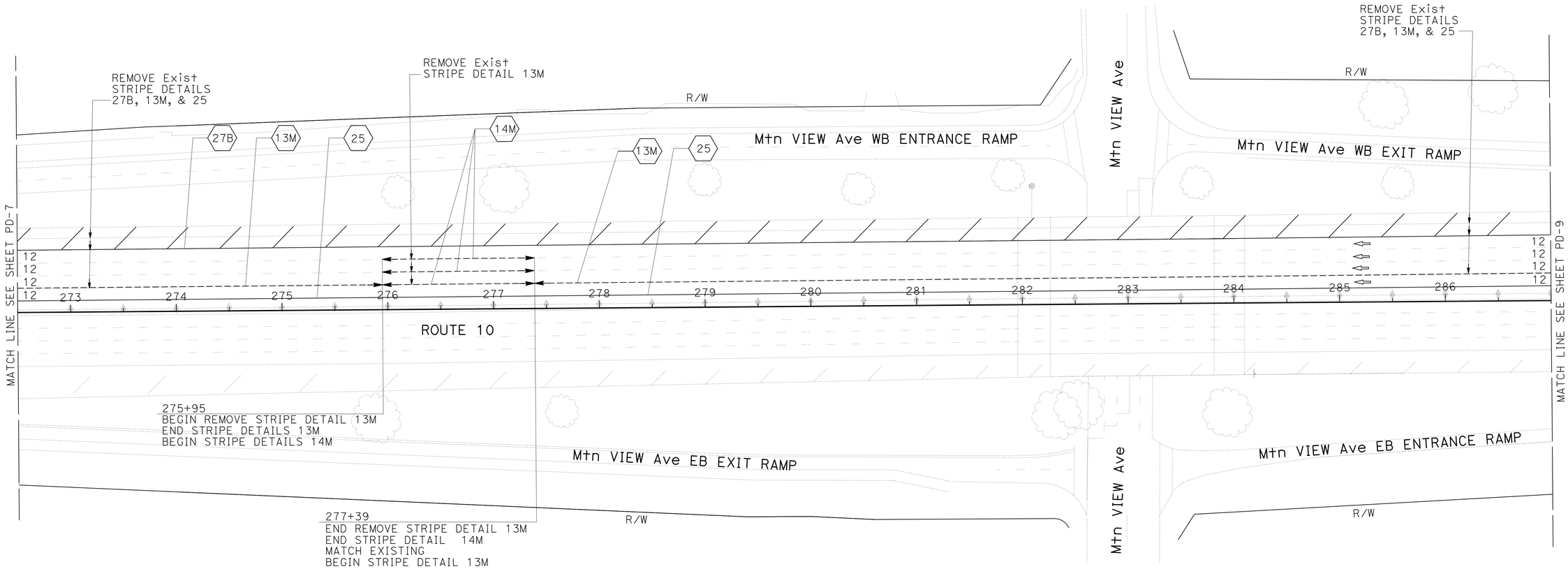
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

NO SCALE

PD-8

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	16	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

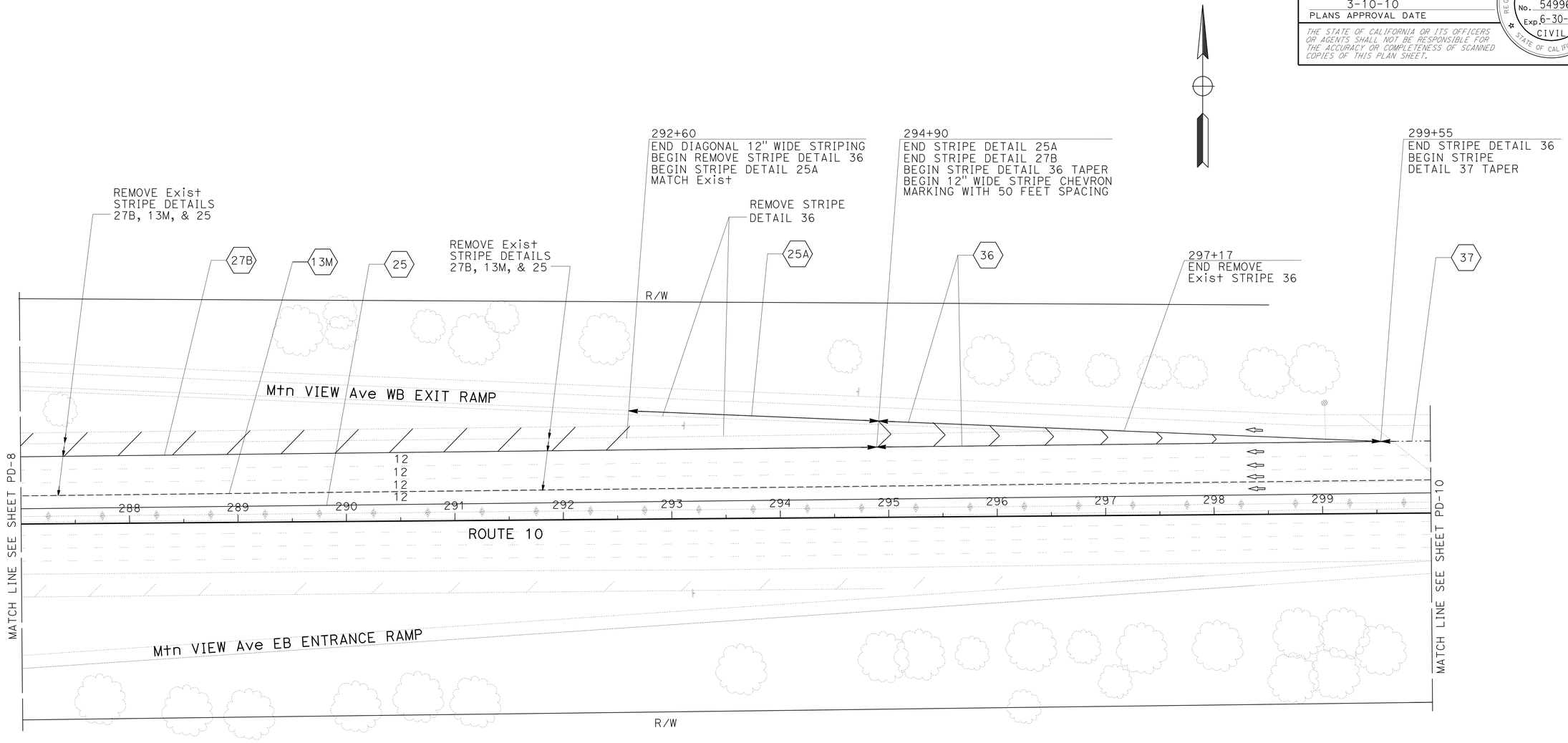
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

NO SCALE

PD-9

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930na009.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	17	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

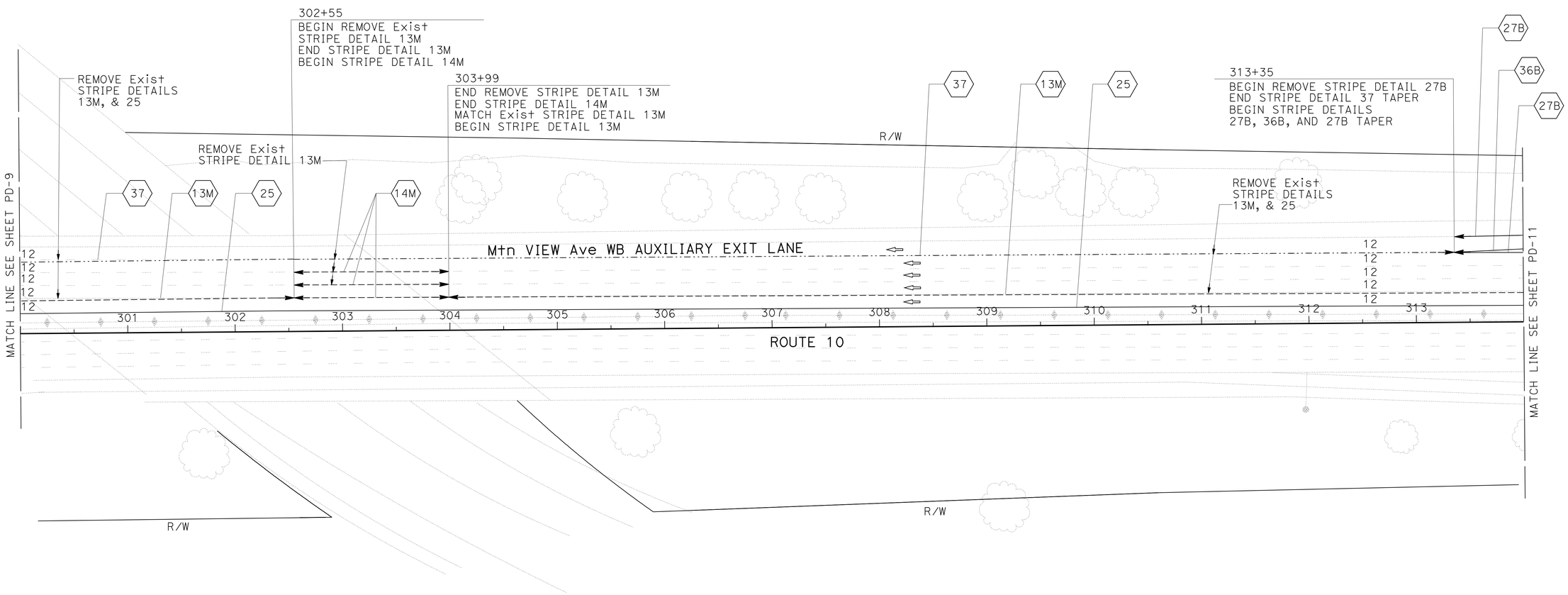
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

NO SCALE

PD-10

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	18	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

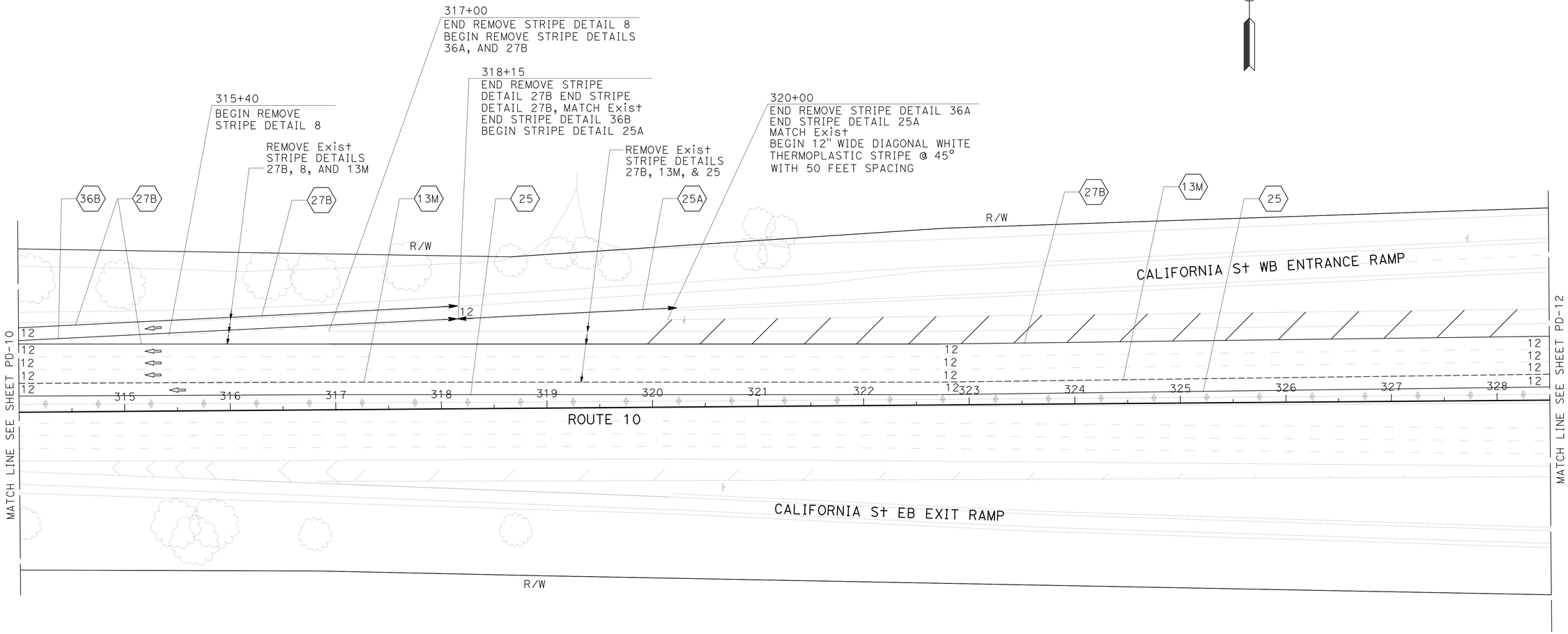
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

NO SCALE

PD-11

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	19	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

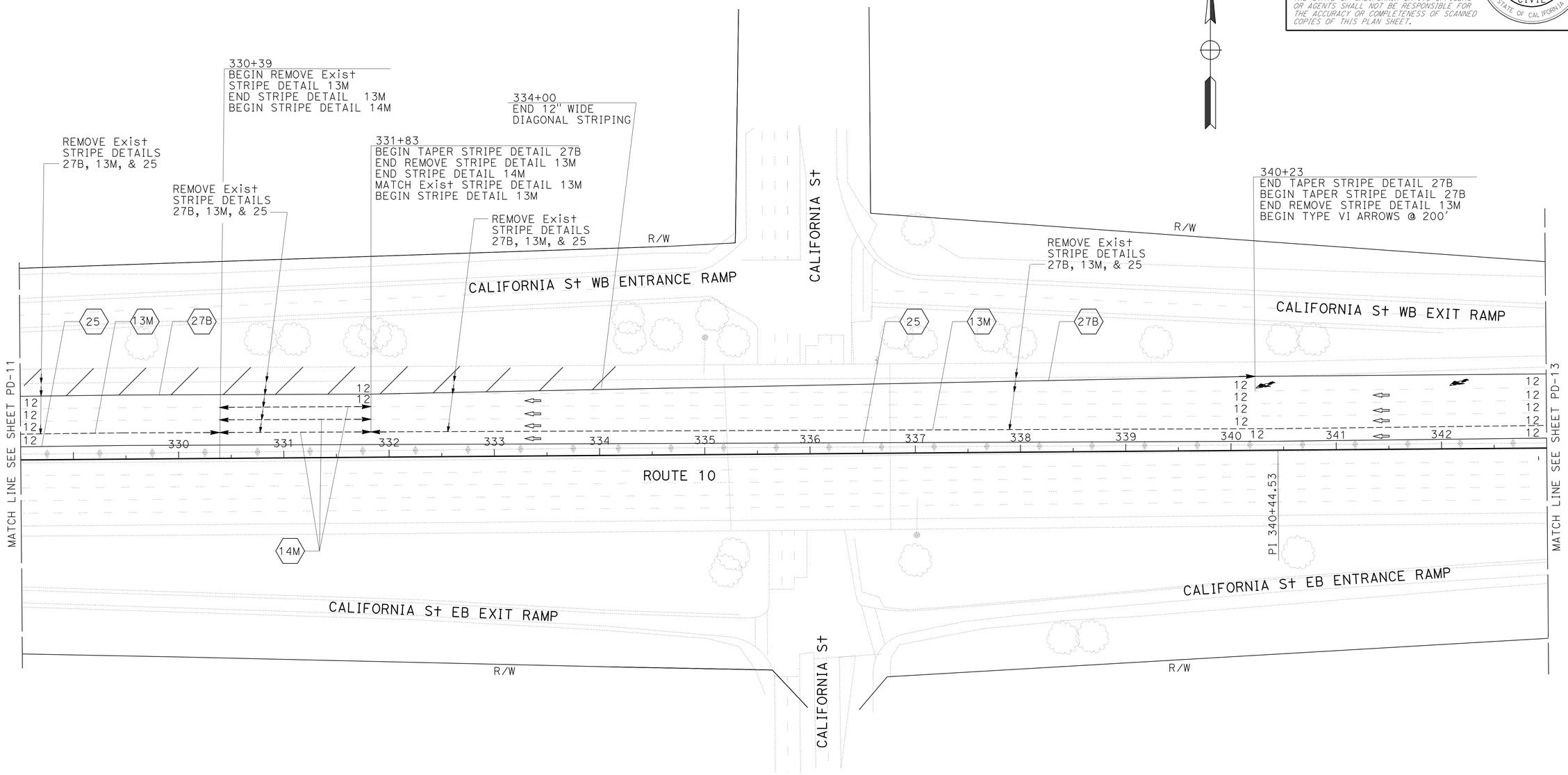
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

NO SCALE

PD-12

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
DARYUSH NAMI	TRAN HOANG

FUNCTIONAL SUPERVISOR: LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **TRAFFIC DESIGN B**

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	20	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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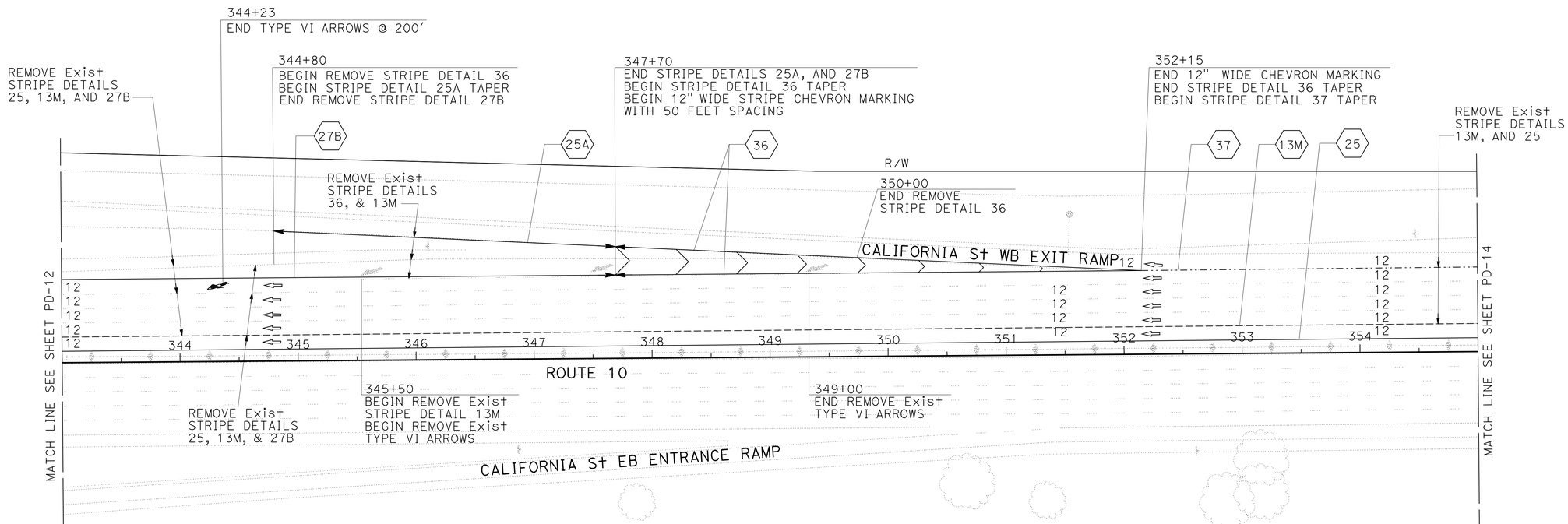
NOTE:

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



PAVEMENT DELINEATION PLAN

NO SCALE

PD-13

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	21	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
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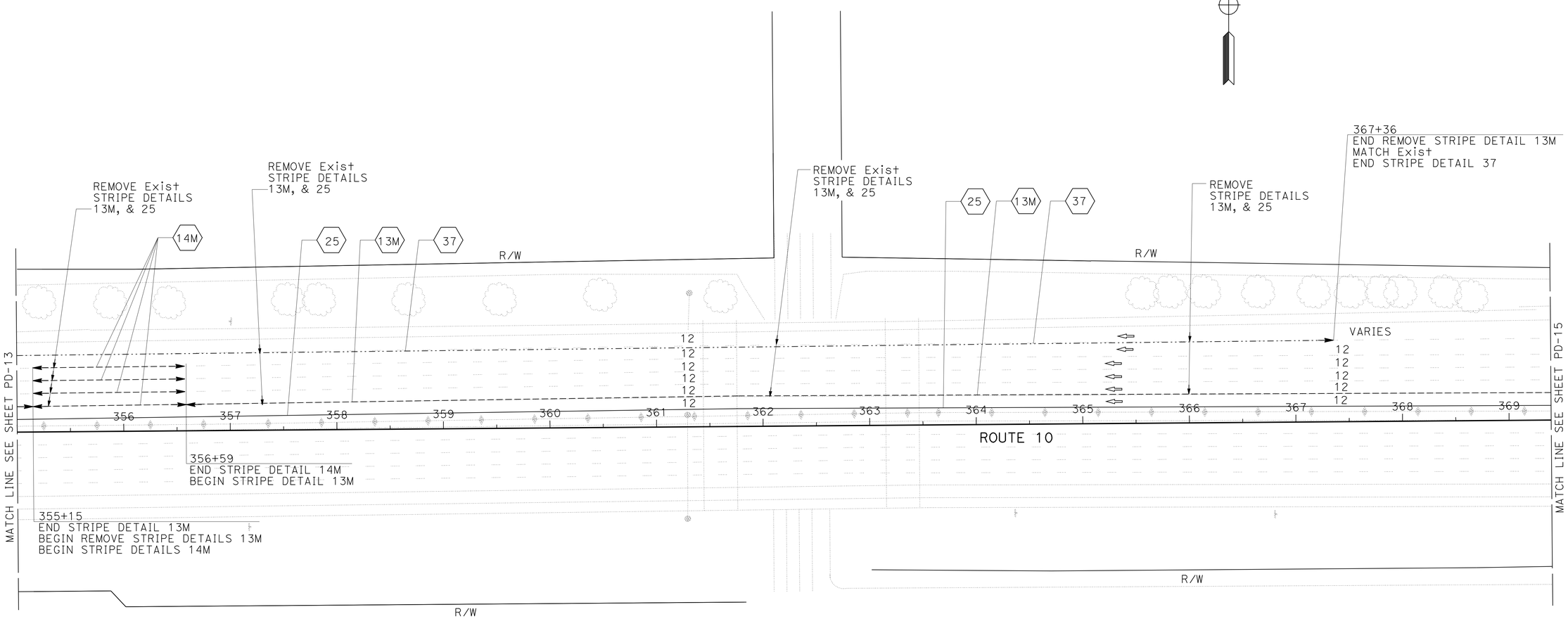

PAVEMENT DELINEATION PLAN

NO SCALE

PD-14

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	22	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

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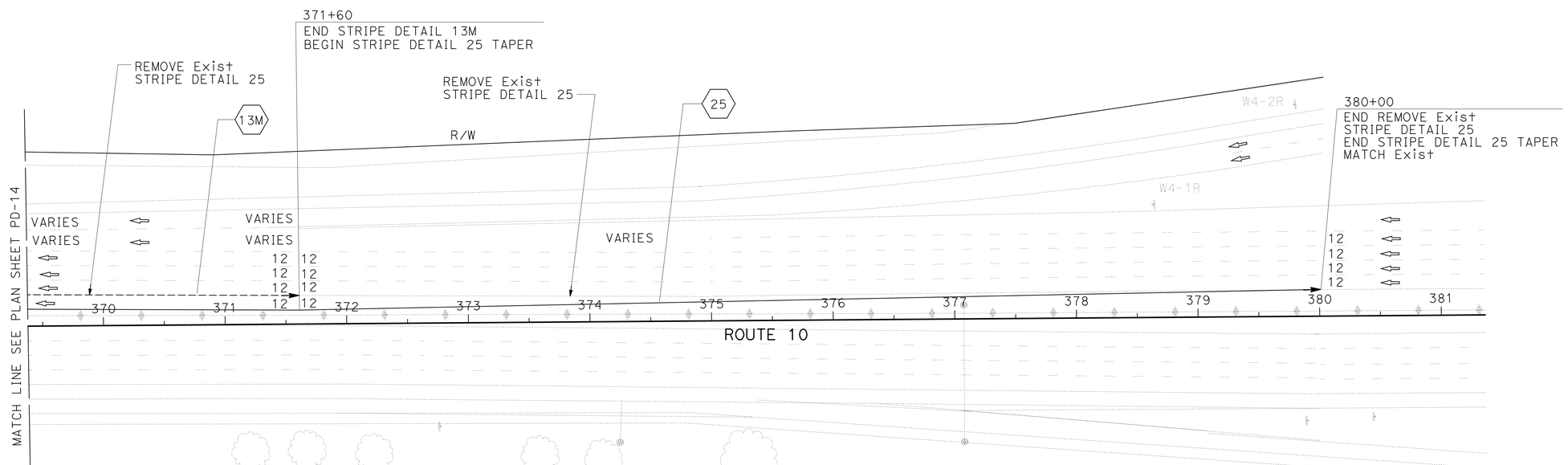


PAVEMENT DELINEATION PLAN

NO SCALE

PD-15

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	23	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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

LOCATION & DIRECTION					DETAIL No. OR PAVEMENT MARKING	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPES		REMOVE PAVEMENT MARKER	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
										NON-REFLECTIVE	RETROREFLECTIVE						
										TYPE	TYPE						
SHEET No.	FROM STA	TO STA	LOCATION	DIRECTION			YELLOW	WHITE	(N)	A	G	C	H	4" YELLOW	4" WHITE	8" WHITE	
						SQFT	LF	LF	EA	EA	EA	EA	EA	LF			SQFT
PD-4	216+50	231+00	Rte 10	WB	27B			1450							1450		
PD-4	216+50	231+00	Rte 10	WB	25		1450		32				32	1450			
PD-4	216+50	228+73	Rte 10	WB	13M			3669		324	81				3669		
PD-4	228+73	230+17	Rte 10	WB	14M			432		36		12			432		
PD-4	230+17	231+00	Rte 10	WB	13M			249	20	48	12				249		
PD-4	220+10	231+00	Rte 10	WB	12" DIAGONAL STRIPE												692.0
PD-5	231+00	240+00	Rte 10	WB	27B			900	0								
PD-5	240+00	243+13	TIPPECANOE Ave	WB EXIT RAMP	36			626	30								
PD-5	231+00	241+25	Rte 10	WB	27B										1025		
PD-5	240+00	241+25	TIPPECANOE Ave	WB EXIT RAMP	25A								7	125			
PD-5	241+25	244+50	TIPPECANOE Ave	WB EXIT RAMP	36						30					650	
PD-5	231+00	240+00	Rte 10	WB	12" DIAGONAL STRIPE												645.0
PD-5	240+00	243+13	Rte 10	WB	12" CHEVRON												240.0
PD-5	231+00	244+50	Rte 10	WB	13M			1350	150	120	30				1350		
PD-5	231+00	244+50	Rte 10	WB	25		1350		30				30	1350			
PD-6	256+60	258+50	Rte 10	WB	27B			190							190		
PD-6	244+50	258+50	Rte 10	WB	13M			1400	152								
PD-6	244+50	245+11	TIPPECANOE Ave	WB EXIT RAMP	36						8					122	
PD-6	245+11	258+50	TIPPECANOE Ave	WB EXIT RAMP	37						86	8				1339	
PD-6	244+50	248+11	Rte 10	WB	13M					36	9				361		
PD-6	248+11	249+55	Rte 10	WB	13M			288	40								
PD-6	248+11	249+55	Rte 10	WB	14M					36		12			432		
PD-6	249+55	258+50	Rte 10	WB	13M					80	20				895		
PD-6	244+50	258+50	Rte 10	WB	25		1400		32				32	1400			
PD-7	258+50	272+50	Rte 10	WB	13M			1400	156	128	32				1400		
PD-7	258+50	272+50	Rte 10	WB	25		1400		32				32	1400			
PD-7	258+50	260+00	MOUNTAIN VIEW Ave	WB ENTRANCE RAMP	37						12					150	
PD-7	260+00	264+30	MOUNTAIN VIEW Ave	WB ENTRANCE RAMP	36A						40					430	
SUB TOTAL							5600	11954	674	808	360	32	133	5725	11453	2691	1577
SHEET TOTAL							5600	11954	674	808	525			19869			1577

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

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	24	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 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

LOCATION & DIRECTION					DETAIL No. OR PAVEMENT MARKING	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPES		REMOVE PAVEMENT MARKER	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
										NON-REFLECTIVE	RETROREFLECTIVE						
										TYPE	TYPE						
SHEET No.	FROM STA	TO STA	LOCATION	DIRECTION			YELLOW	WHITE	(N)	A	G	C	H	4" YELLOW	4" WHITE	8" WHITE	
						SQFT	LF	LF	EA	EA	EA	EA	EA	LF			SQFT
PD-7	258+50	263+00	Rte 10	WB	27B			450							450		
PD-7	260+00	272+50	Rte 10	WB	27B										1250		
PD-7	260+00	264+30	Rte 10	WB	8			430									
PD-7	264+30	272+50	Rte 10	WB	27B			820									
PD-7	264+30	272+50	Rte 10	WB	12" DIAGONAL STRIPE												540.0
PD-8	272+50	287+00	Rte 10	WB	13M			1450	170								
PD-8	272+50	275+95	Rte 10	WB	13M					40	10				345		
PD-8	275+95	277+39	Rte 10	WB	13M			288	40								
PD-8	275+95	277+39	Rte 10	WB	14M					36		12			432		
PD-8	277+39	287+00	Rte 10	WB	13M					88	22				961		
PD-8	272+50	287+00	Rte 10	WB	25		1450		34				34	1450			
PD-8	272+50	287+00	Rte 10	WB	27B			1450							1450		
PD-8	272+50	287+00	Rte 10	WB	12" DIAGONAL STRIPE												930.0
PD-9	287+00	292+60	Rte 10	WB	27B			560									
PD-9	292+60	297+17	MOUNTAIN VIEW Ave	WB EXIT RAMP	36			914	42								
PD-9	287+00	294+90	Rte 10	WB	27B										790		
PD-9	292+60	294+90	MOUNTAIN VIEW Ave	WB EXIT RAMP	25A								12	230			
PD-9	294+90	299+55	MOUNTAIN VIEW Ave	WB EXIT RAMP	36						42					930	
PD-9	299+55	300+00	MOUNTAIN VIEW Ave	WB EXIT RAMP	37						6					45	
PD-9	287+00	300+00	Rte 10	WB	13M			1300	156	124	32				1300		
PD-9	287+00	300+00	Rte 10	WB	25		1300		29				29	1300			
PD-9	287+00	292+60	Rte 10	WB	12" DIAGONAL STRIPE												380.0
PD-9	294+90	299+55	MOUNTAIN VIEW Ave	WB EXIT RAMP	12" CHEVRON												160.0
PD-10	300+00	313+35	MOUNTAIN VIEW Ave	WB EXIT RAMP	37						88	8				1335	
PD-10	313+35	314+00	Rte 10	WB	27B			65							65		
PD-10	313+35	314+00	CALIFORNIA St	WB ENTRANCE RAMP	36B						4					65	
PD-10	300+00	302+55	Rte 10	WB	13M			255	35	28	7				255		
PD-10	302+55	303+99	Rte 10	WB	14M			432	48	36		12			432		
PD-10	303+99	314+00	Rte 10	WB	13M			1001	110	88	22				1001		
PD-10	300+00	314+00	Rte 10	WB	25		1400		32				32	1400			
PD-11	314+00	318+15	Rte 10	WB	27B			415							415		
PD-11	315+40	317+00	Rte 10	WB	8			160									
PD-11	317+00	328+50	Rte 10	WB	27B			1150									
PD-11	317+00	320+00	CALIFORNIA St	WB ENTRANCE RAMP	36A			300	9								
PD-11	314+00	318+15	CALIFORNIA St	WB ENTRANCE RAMP	36B						20					415	
PD-11	318+15	320+00	Rte 10	WB	25A								9	185			
PD-11	314+00	328+50	Rte 10	WB	27B										1450		
PD-11	314+00	328+50	Rte 10	WB	13M			1450	170	136	34				1450		
PD-11	314+00	328+50	Rte 10	WB	25		1450		34				34	1450			
PD-11	320+00	328+50	Rte 10	WB	12" DIAGONAL STRIPE												620.0
PD-12	328+50	334+00	Rte 10	WB	12" DIAGONAL STRIPE												412.0
SUB TOTAL							5600	12890	909	576	287	32	150	6015	12046	2790	3042
SHEET TOTAL							5600	12890	909	576	469			20851			3042

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

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	25	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

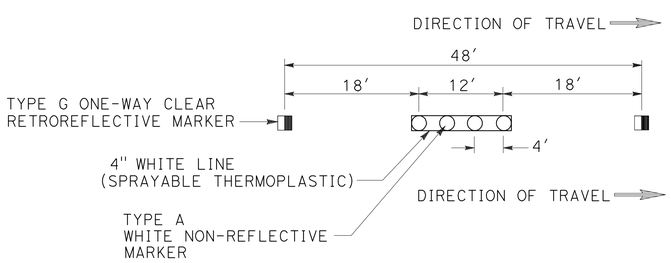
REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

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

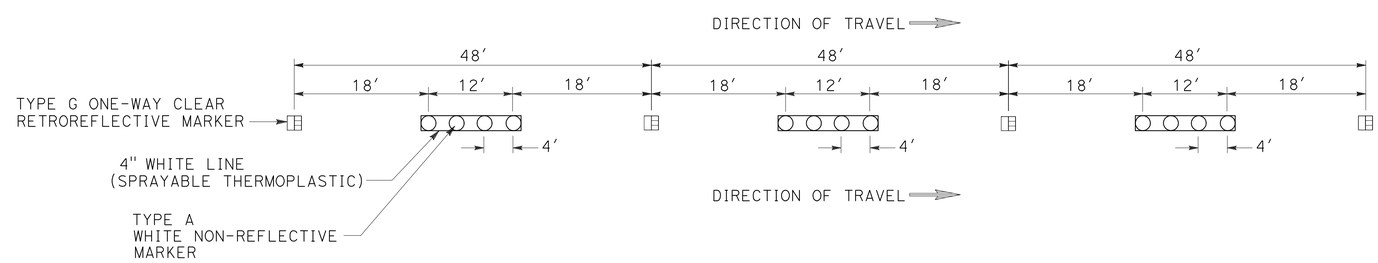
LOCATION & DIRECTION					DETAIL No. OR PAVEMENT MARKING	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPES		REMOVE PAVEMENT MARKER	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
										NON-REFLECTIVE	RETROREFLECTIVE						
										TYPE	TYPE						
SHEET No.	FROM STA	TO STA	LOCATION	DIRECTION			YELLOW	WHITE		A	G	C	H	4" YELLOW	4" WHITE	8" WHITE	
						SQFT	LF	LF	(N)	EA	EA	EA	EA	LF			SQFT
PD-12	328+50	343+00	Rte 10	WB	27B			1450							1450		
PD-12	328+50	340+23	Rte 10	WB	13M			1173	125								
PD-12	328+50	330+39	Rte 10	WB	13M					20	5				189		
PD-12	330+39	331+83	Rte 10	WB	14M			432	48	36		12			432		
PD-12	331+83	343+00	Rte 10	WB	13M					100	25				1117		
PD-12	328+50	343+00	Rte 10	WB	25		1450		34				34	1450			
PD-12	340+23	343+00	Rte 10	WB	TYPE VI ARROW												84.0
PD-13	343+00	344+23	Rte 10	WB	TYPE VI ARROW												42.0
PD-13	347+70	352+15	Rte 10	WB	12" CHEVRON												165.0
PD-13	343+00	344+80	Rte 10	WB	27B			180									
PD-13	344+80	350+00	Rte 10	WB	36			1040	46								
PD-13	344+80	347+70	CALIFORNIA St	WB EXIT RAMP	25A								14	290	14801		
PD-13	343+00	347+70	Rte 10	WB	27B										470		
PD-13	345+50	349+72	Rte 10	WB	TYPE VI ARROW	297.0											
PD-13	347+70	352+15	CALIFORNIA St	WB EXIT RAMP	36						40					890	
PD-13	352+15	355+00	CALIFORNIA St	WB EXIT RAMP	37						22					285	
PD-13	345+50	355+00	Rte 10	WB	13M			950	105								
PD-13	343+00	355+00	Rte 10	WB	13M					104	26				1200		
PD-13	343+00	355+00	Rte 10	WB	25		1200		26				26		1200		
PD-14	355+00	367+36	Rte 10	WB	13M			1236	132								
PD-14	355+00	367+36	Rte 10	WB	37						84	8				1236	
PD-14	355+00	357+00	Rte 10	WB	13M					16	4				200		
PD-14	357+00	358+44	Rte 10	WB	14M			576	64	48		16			576		
PD-14	358+44	369+50	Rte 10	WB	13M					112	28				1106		
PD-14	355+00	369+50	Rte 10	WB	25		1450		34				34		1450		
PD-15	369+50	371+60	Rte 10	WB	13M					24	6				210		
PD-15	369+50	380+00	Rte 10	WB	25		1050		23				23		1050		
SUB TOTAL						297.0	5150	7037	637	460	240	36	131	1740	10650	2411	291
SHEET TOTAL						297.0	5150	7037	637	460	407			14801			
SHEET PDQ-2 TOTAL							5600	12890	909	576	469			20851			3042
SHEET PDQ-1 TOTAL							5600	11954	674	808	525			19869			1577
TOTAL						297.0	16350	31881	2220	1844	1401			55521			4910

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



DETAIL 13 MODIFIED (13M)

INSTALL TYPE A NON-REFLECTIVE MARKER WITH STRIPING DETAIL 13M
INSTALL TYPE A MARKER BEFORE STRIPING TO GET THE PROPER BONDING



DETAIL 14 MODIFIED (14M)

INSTALL TYPE A NON-REFLECTIVE MARKER WITH STRIPING DETAIL 14M
INSTALL TYPE A MARKER BEFORE STRIPING TO GET THE PROPER BONDING

PAVEMENT DELINEATION QUANTITIES

PDQ-3

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

REVISED BY | DATE REVISED
DARYUSH NAMI | TRAN HOANG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LARRY SARTORI

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	26	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

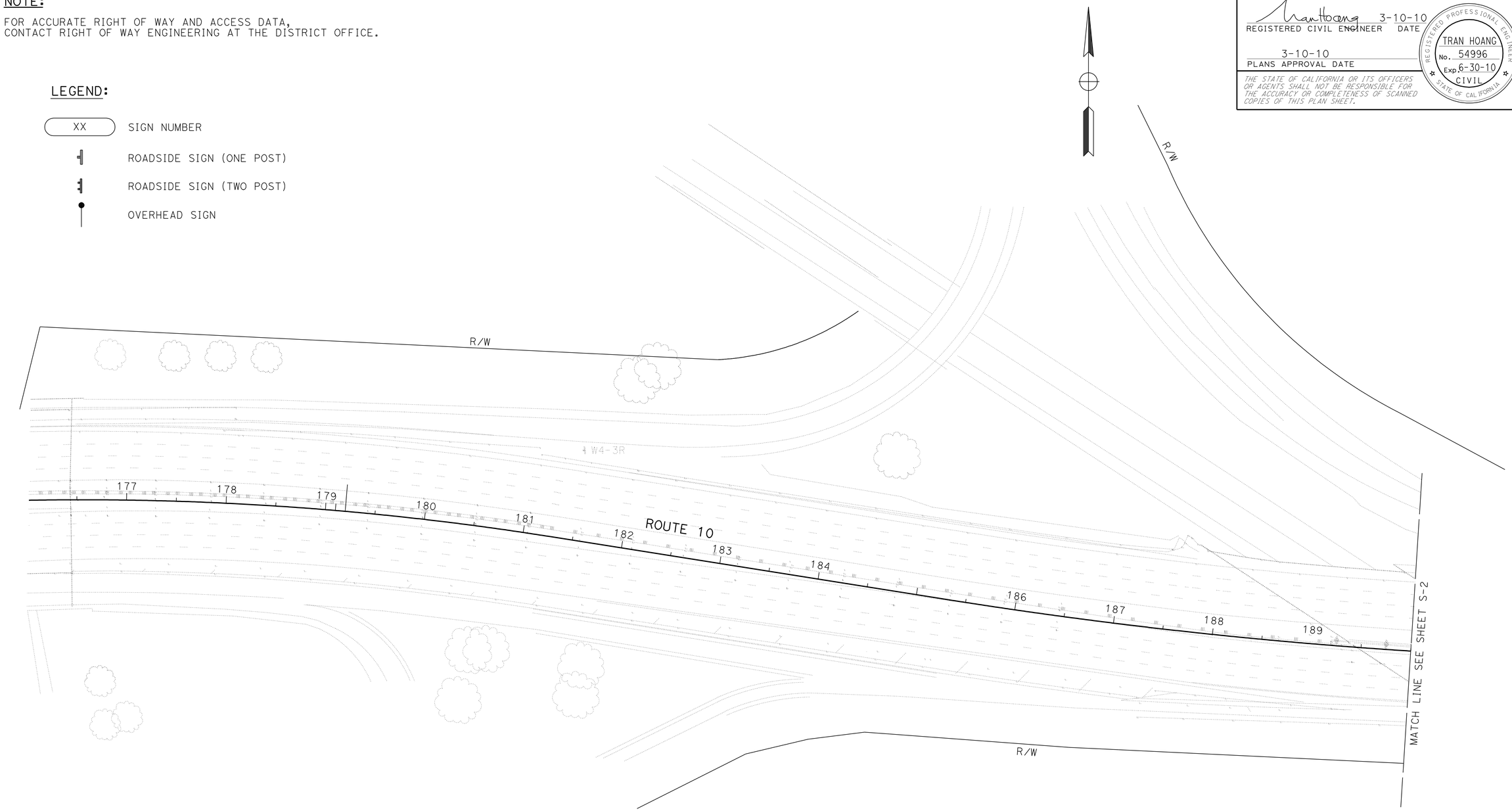
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

LEGEND:

- XX — SIGN NUMBER
- ROADSIDE SIGN (ONE POST)
- ROADSIDE SIGN (TWO POST)
- OVERHEAD SIGN



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:39

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930oa001.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	27	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

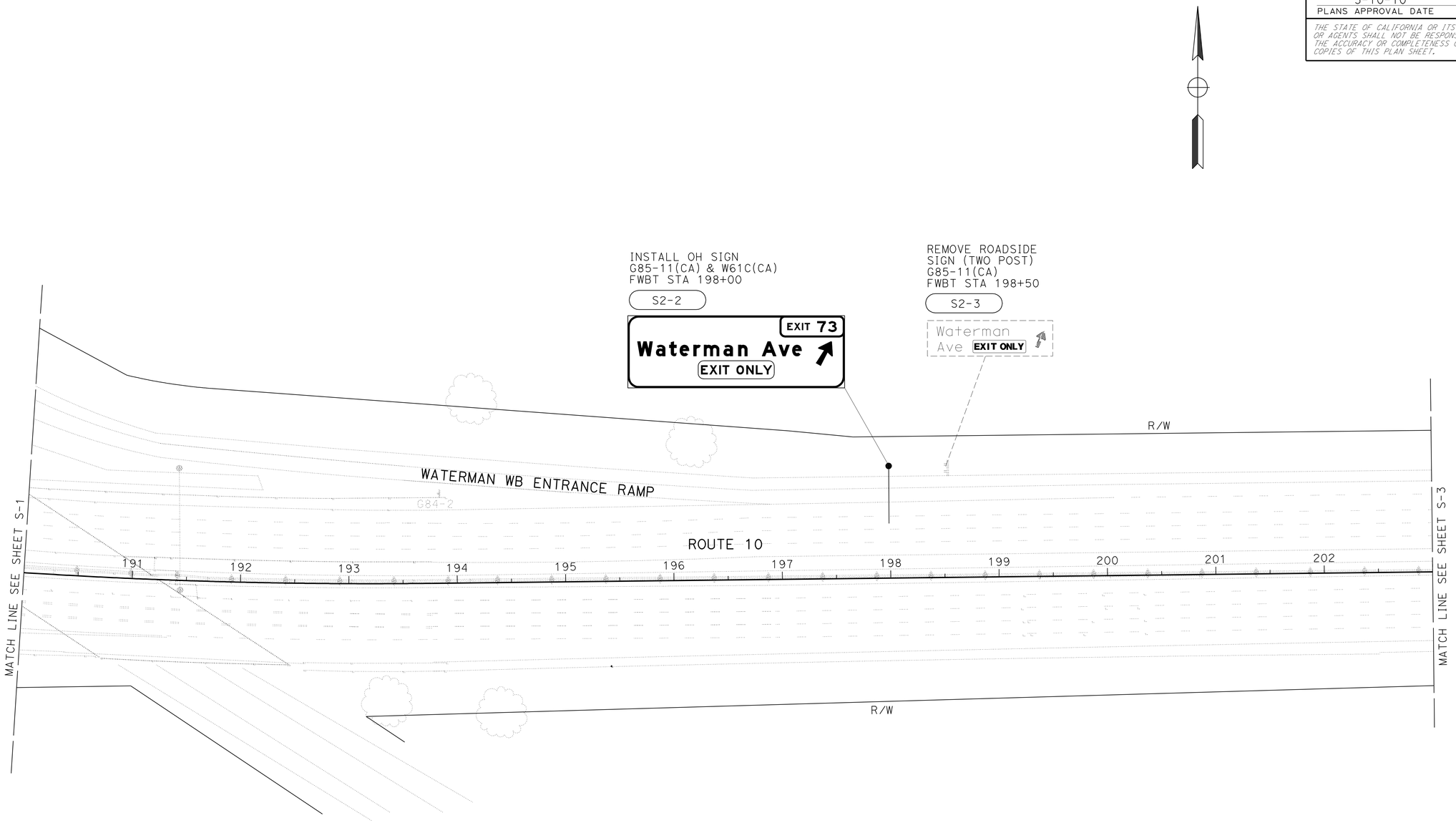
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SIGN PLAN

NO SCALE **S-2**

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	28	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

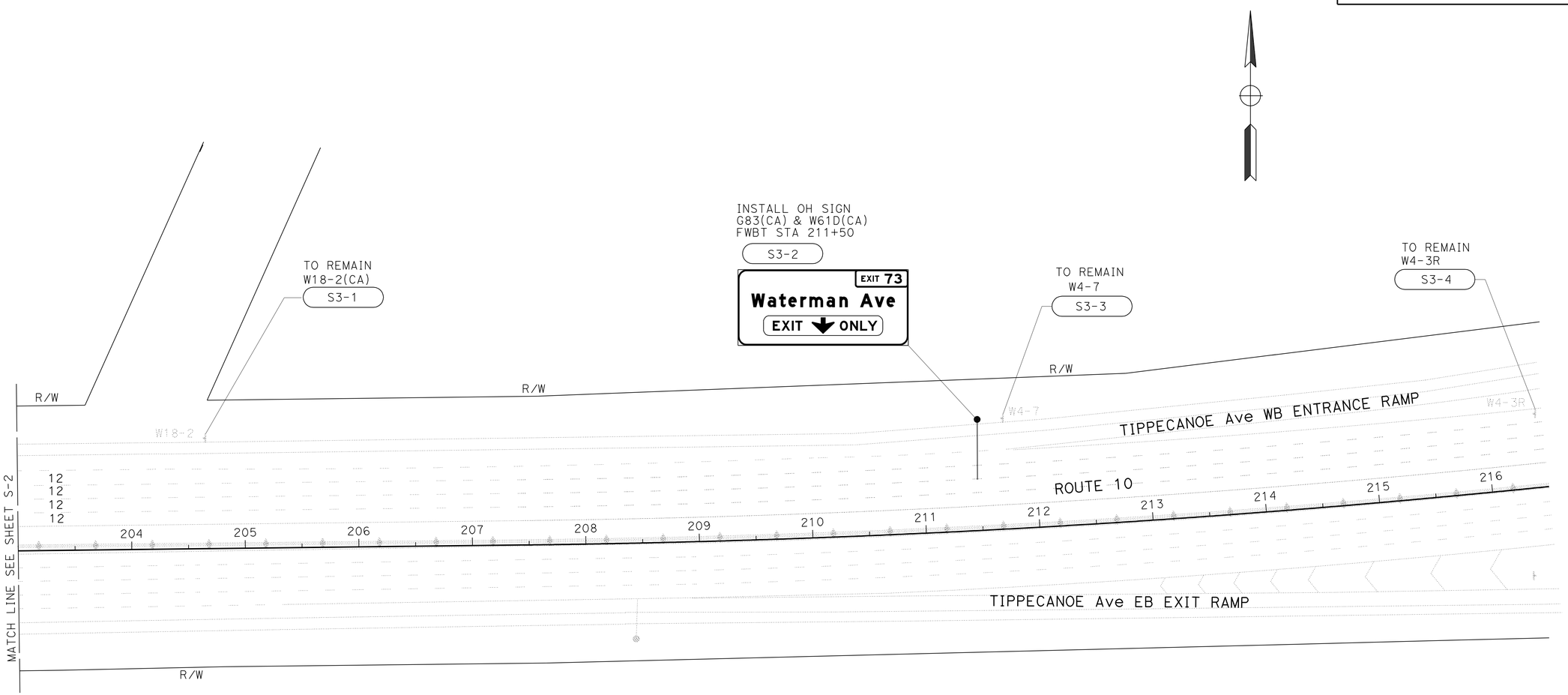
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SIGN PLAN

NO SCALE **S-3**

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	29	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

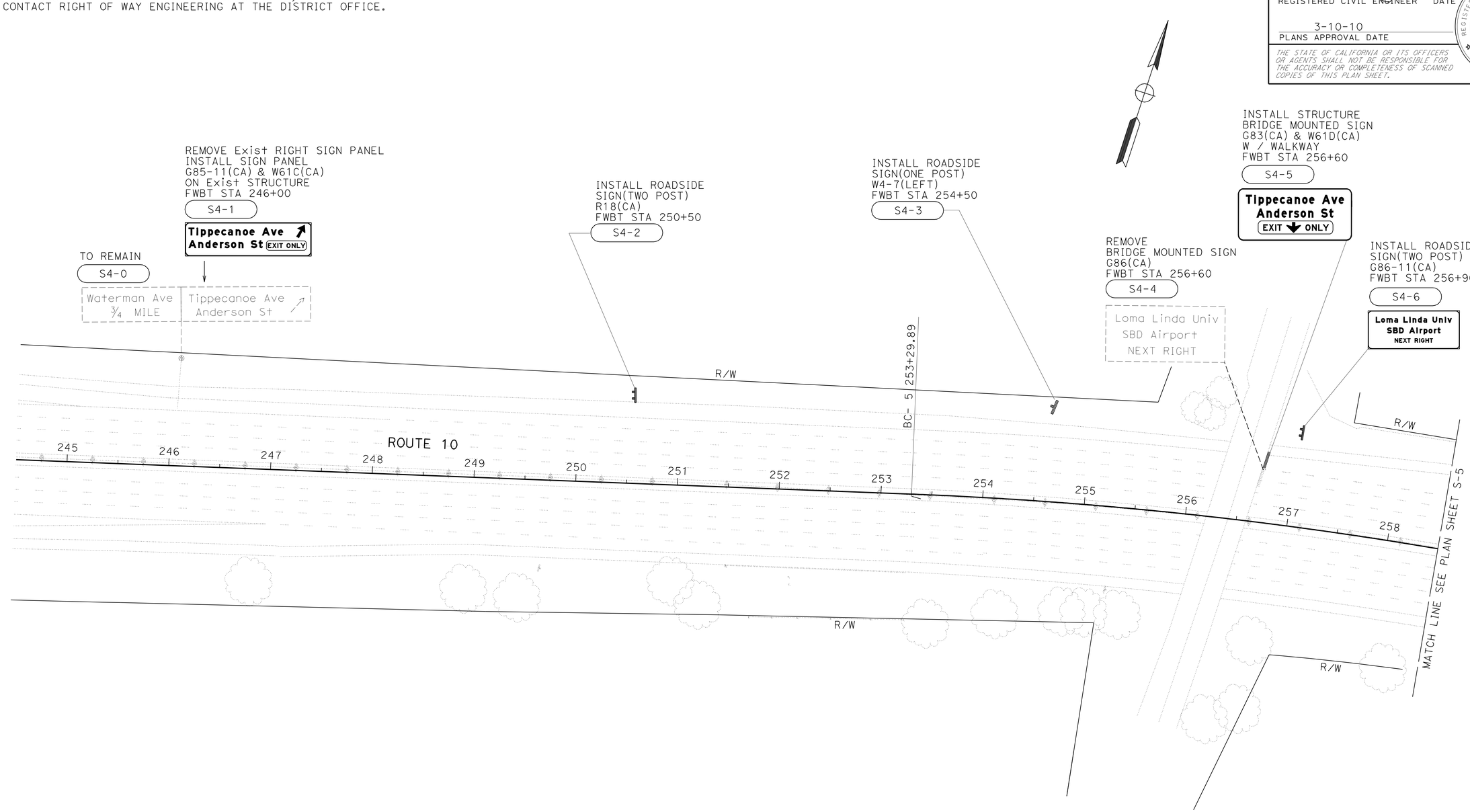
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-4**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY | DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:39

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => fandres
DGN FILE => 80h930oa004.dgn

CU 08381

EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	30	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

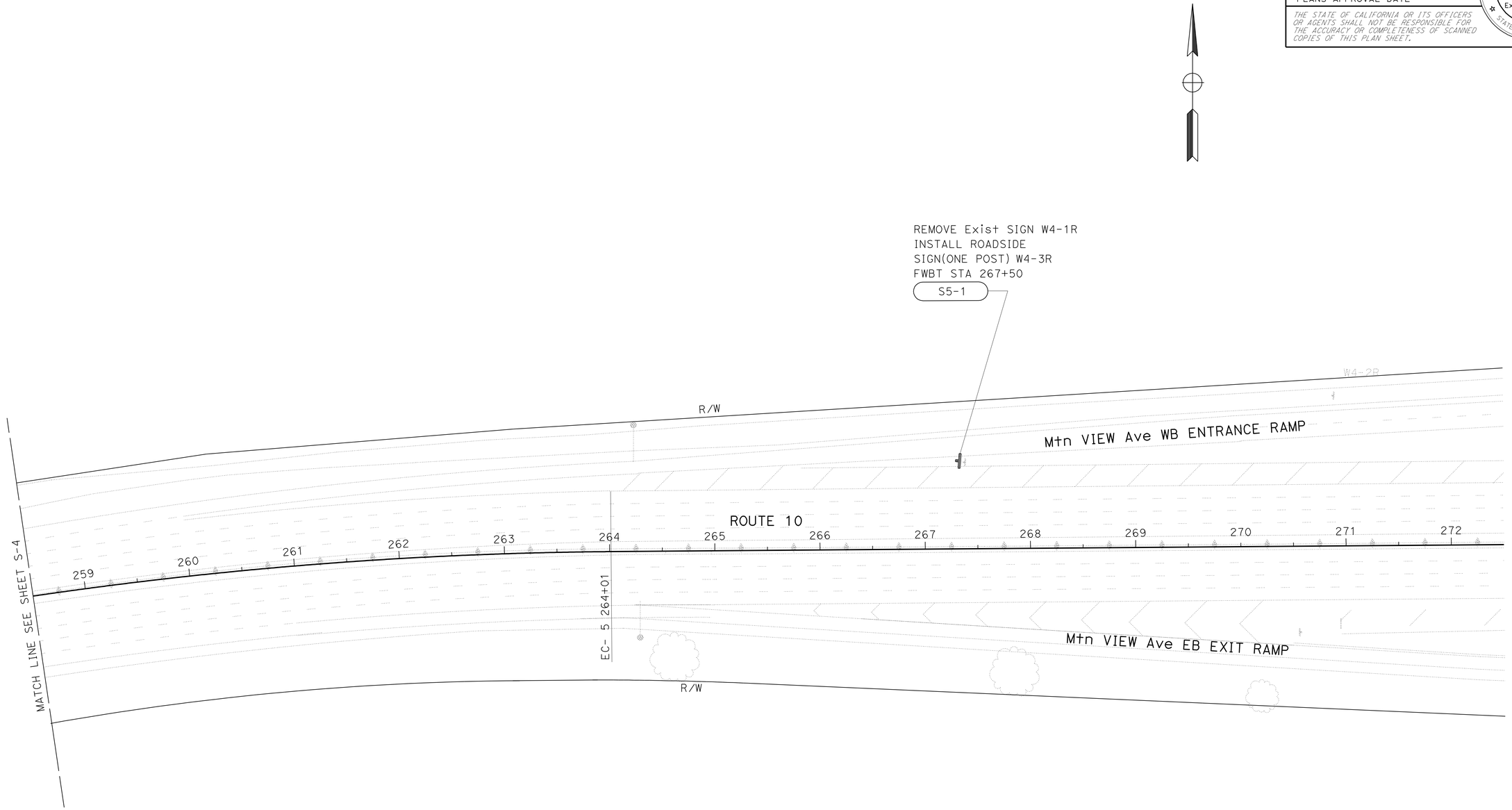
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-5**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	31	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

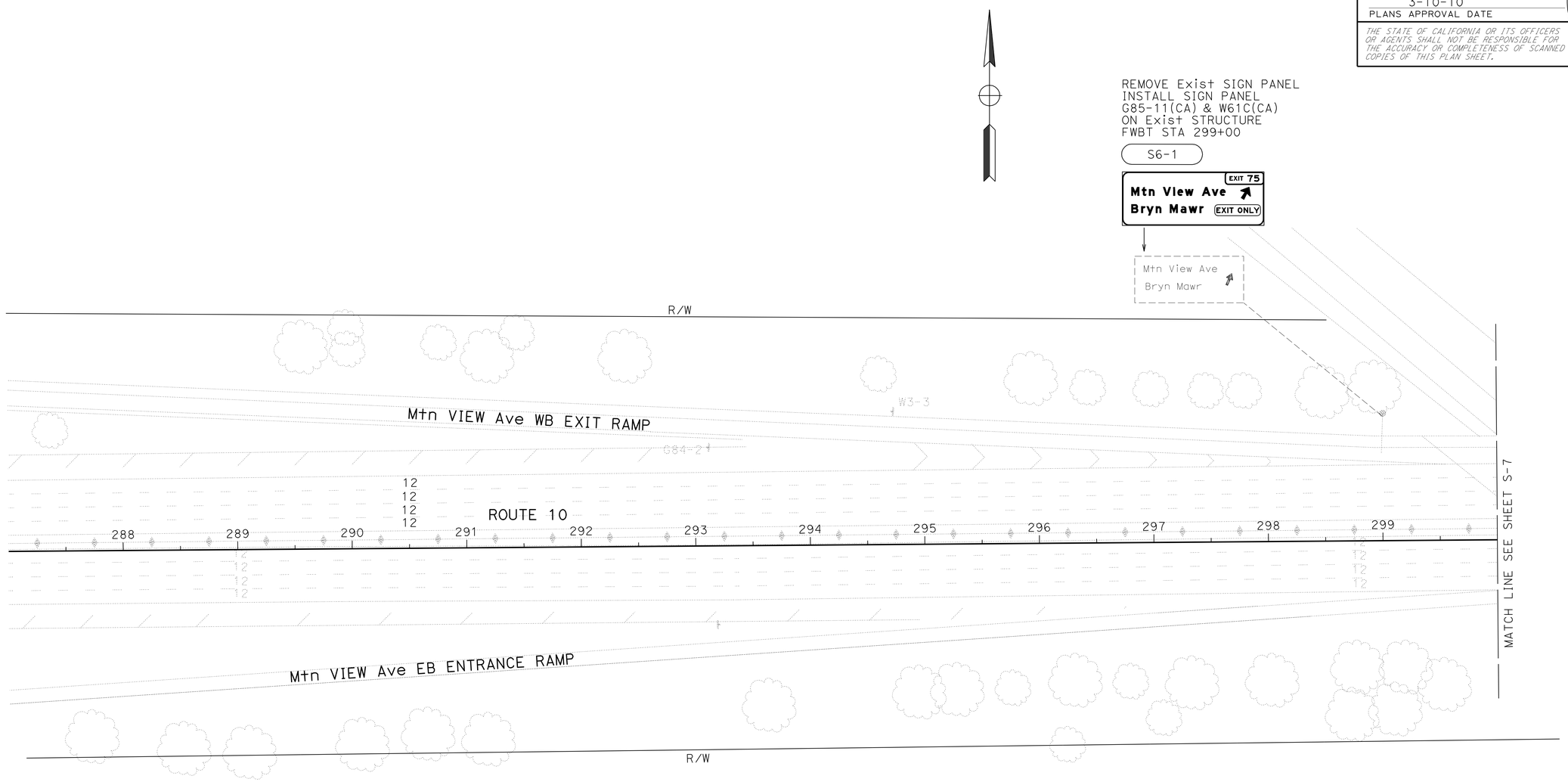
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE

S-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:39

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930oa006.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	32	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
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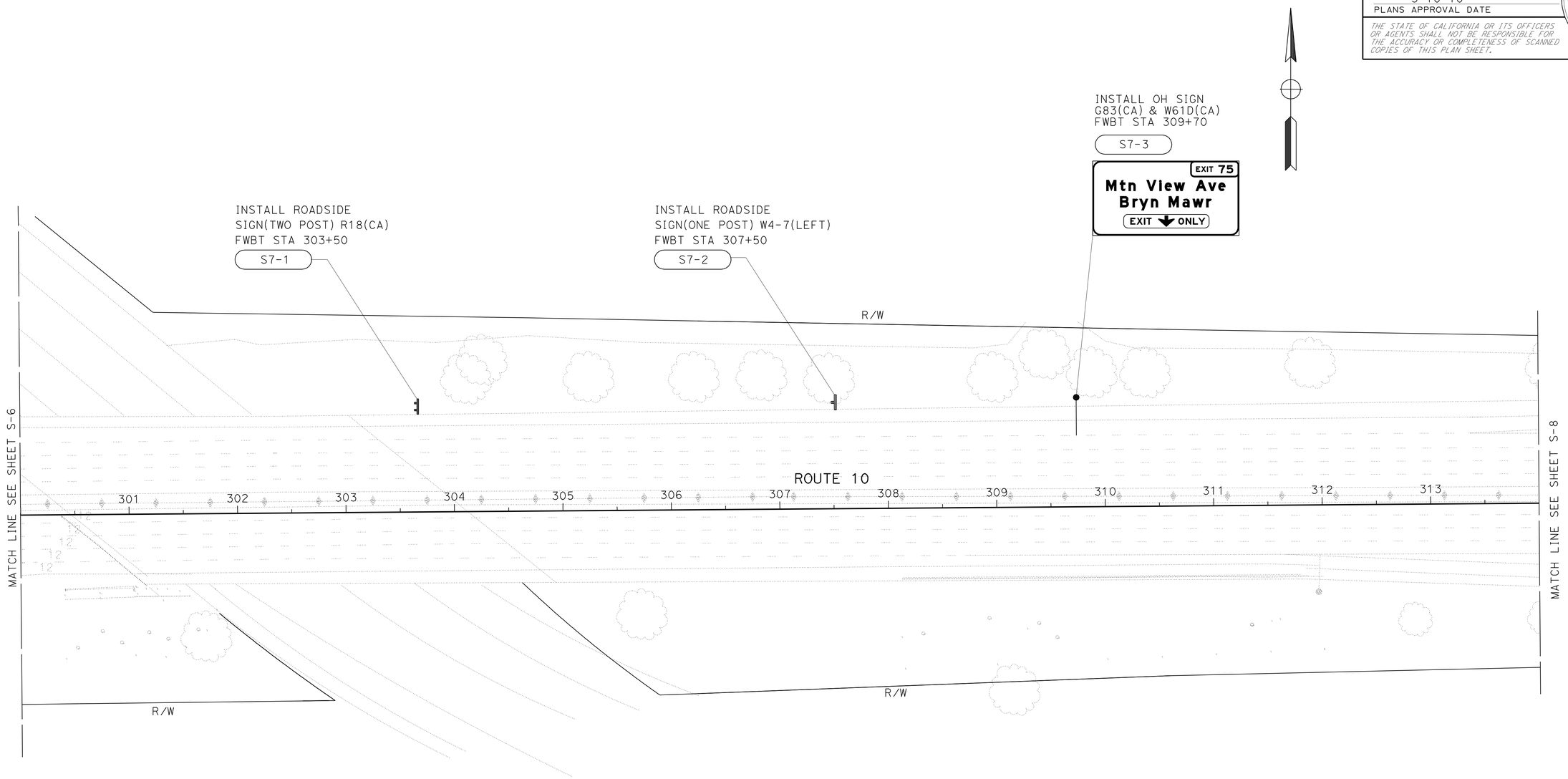

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-7**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	33	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
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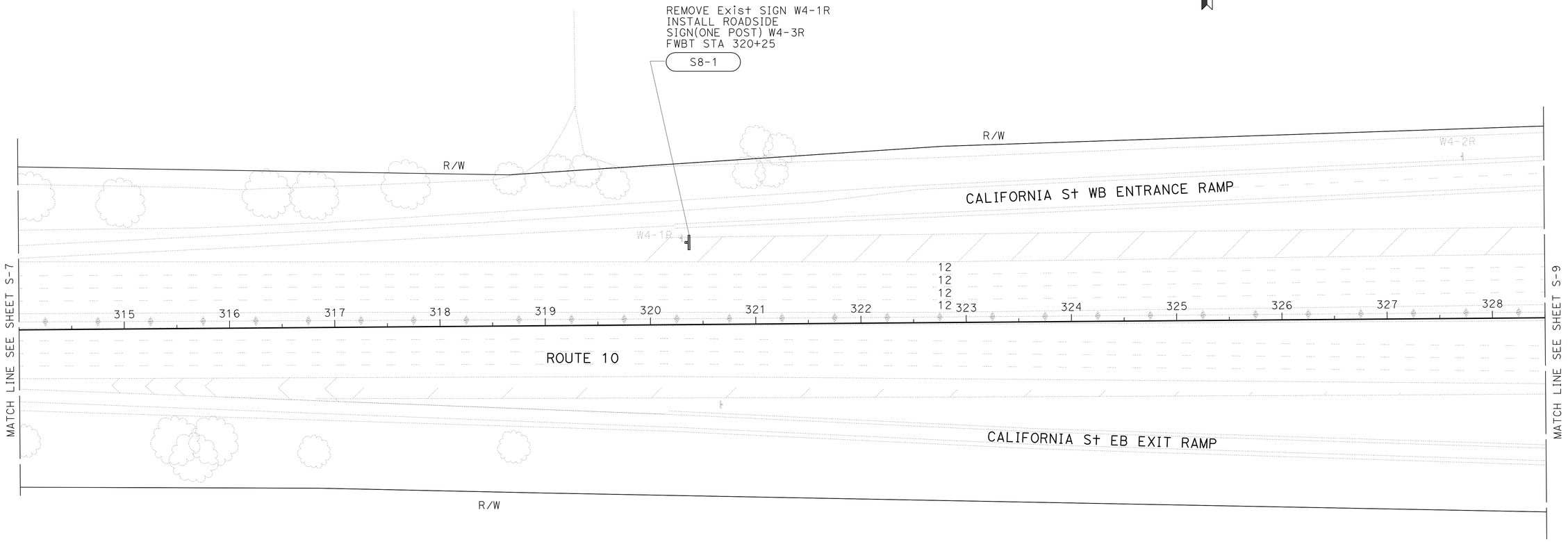

SIGN PLAN

NO SCALE **S-8**

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	34	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE

S-9

REVISED BY	
DATE REVISED	
DARYUSH NAMI	
TRAN HOANG	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
LARRY SARTORI	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	35	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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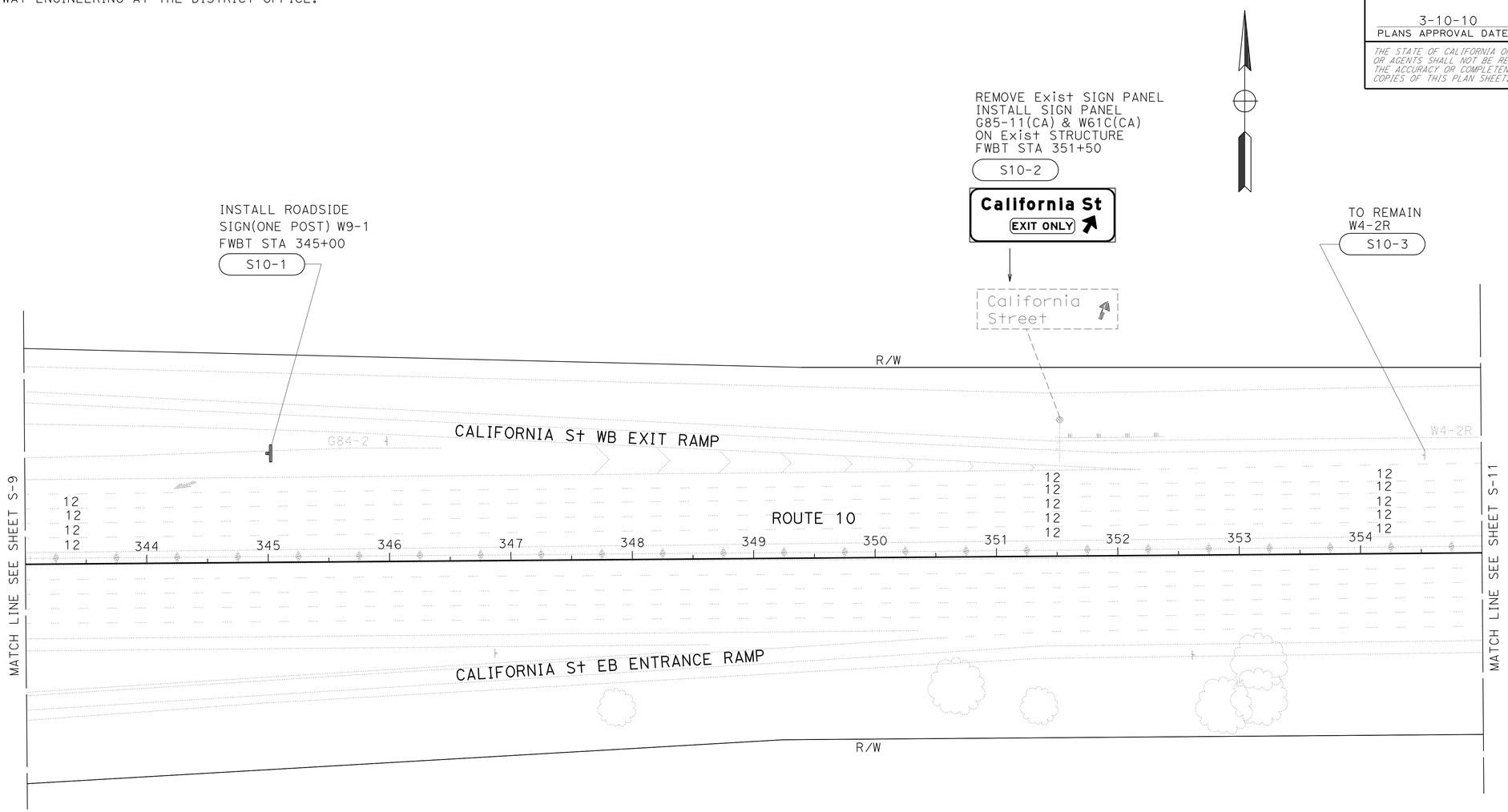

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN
NO SCALE **S-10**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930oa010.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	36	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

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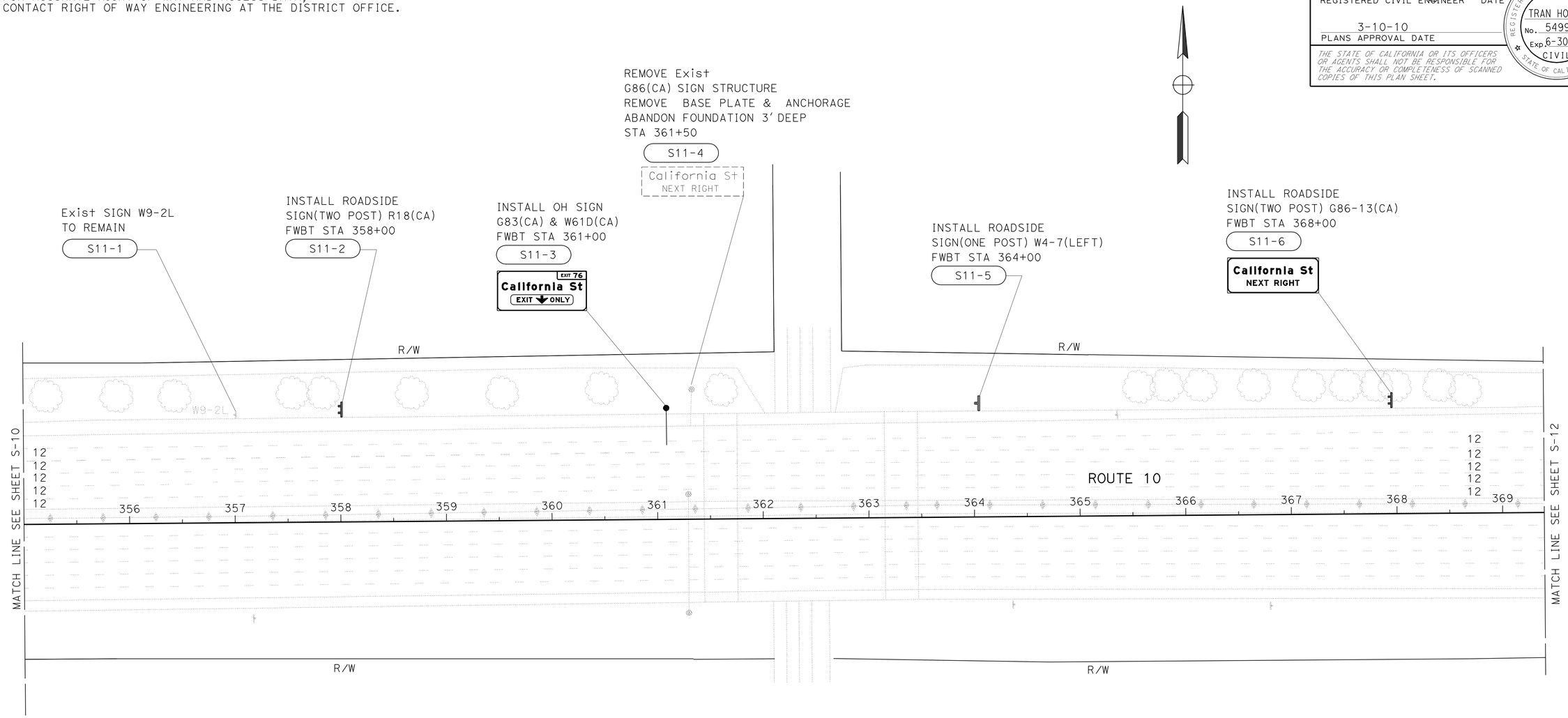


EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-11**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => fandres
DGN FILE => 80h930oa011.dgn
CU 08381
EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	37	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

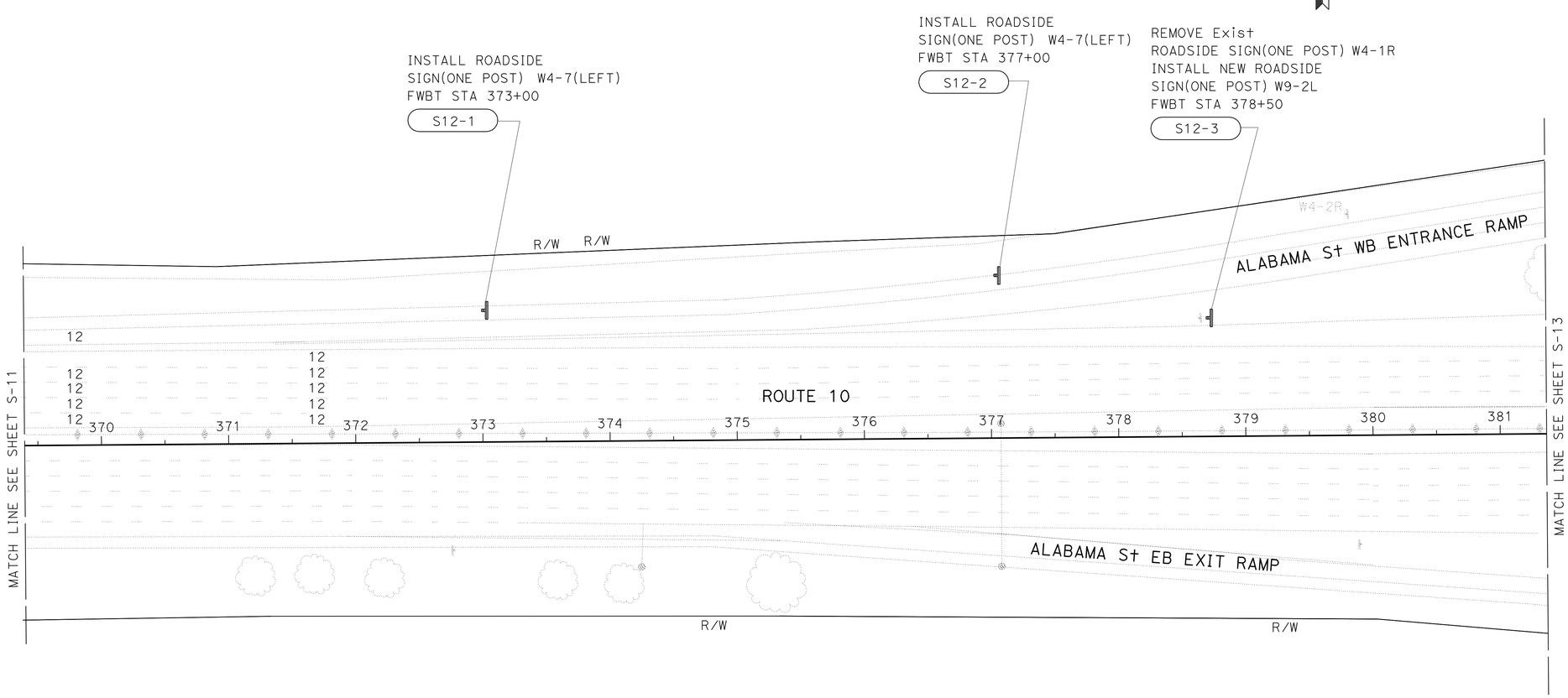
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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 AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-12**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

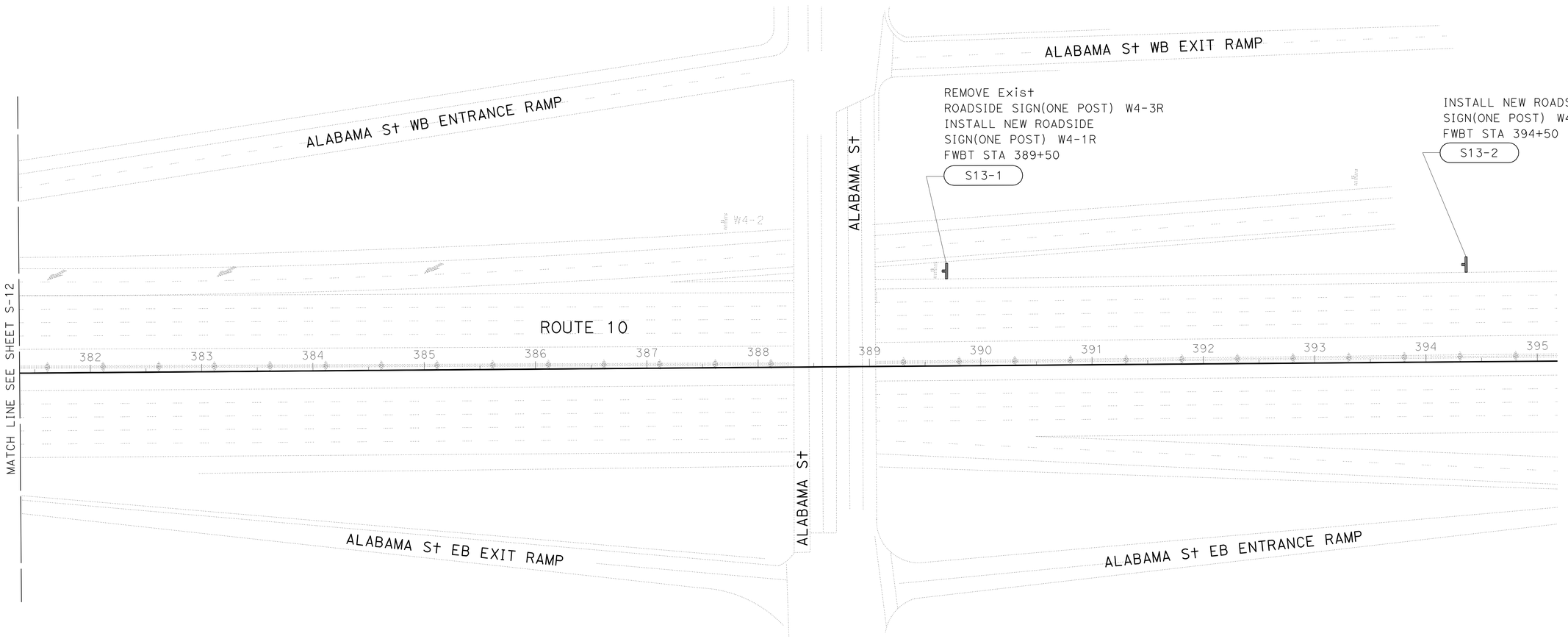
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	38	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN PLAN

NO SCALE **S-13**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => fandres
DGN FILE => 80h930oa013.dgn

CU 08381

EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	39	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

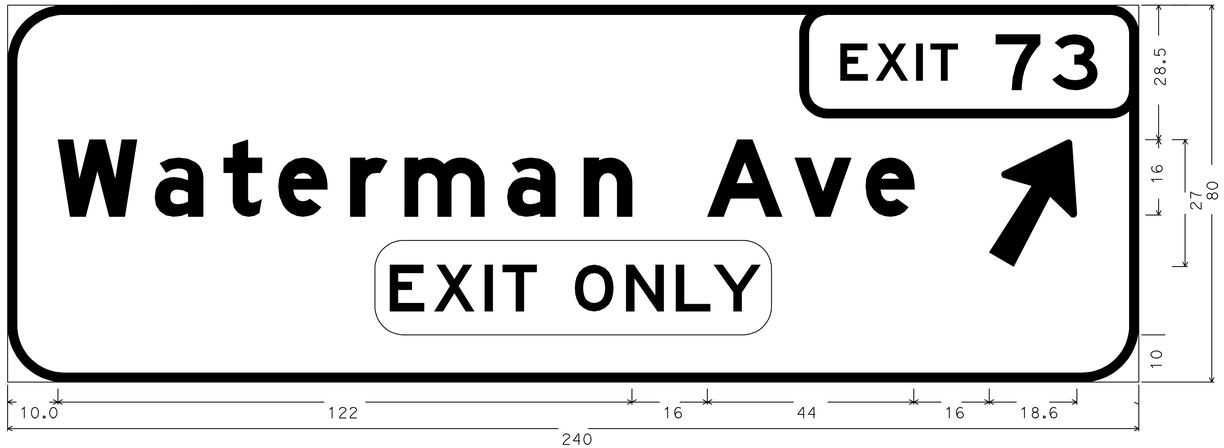
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

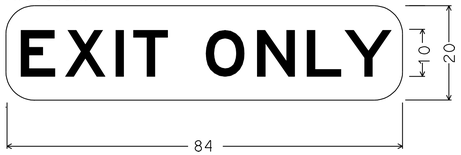
DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G85-11(CA) & W61C(CA)



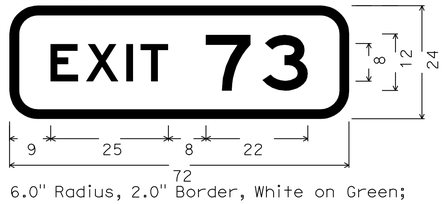
12.0" Radius, 2.0" Border, White on Green;
[Waterman Ave] E Mod; Arrow 13.33UC-2LV - 29.3" 60°

W61C(CA)



3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; [ONLY] Black E;

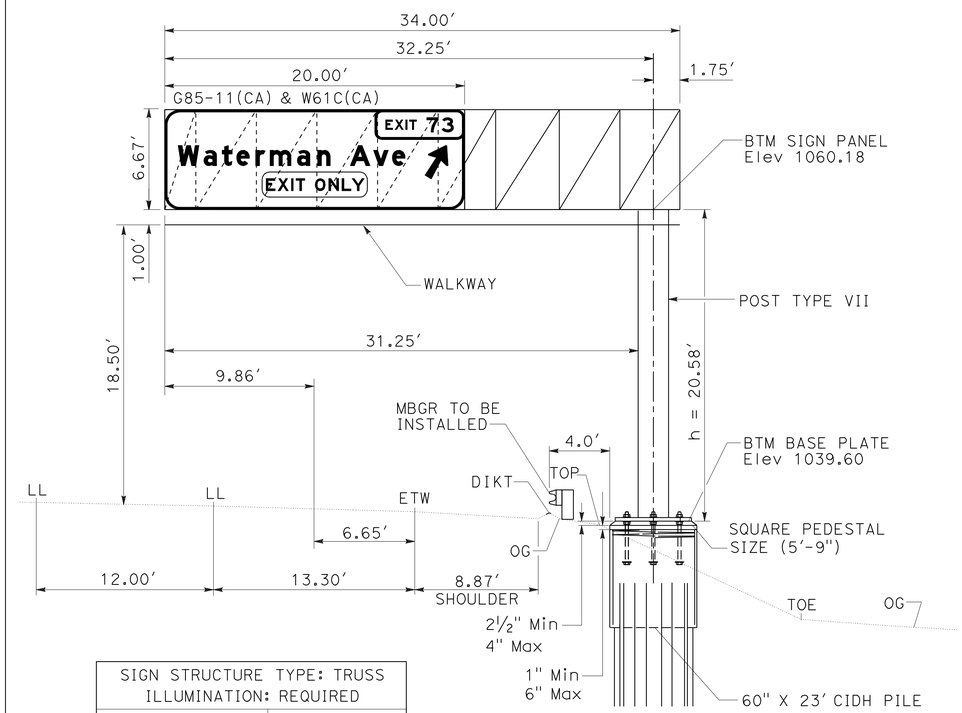
G70-2(CA)



6.0" Radius, 2.0" Border, White on Green;
[EXIT] E; [73] E;

SIGN PANEL: FORMED PANEL W/RSPF*

G85-11(CA) & W61C(CA)
FWBT @ STA 198+00
S2-2 DETAIL



SIGN STRUCTURE TYPE: TRUSS ILLUMINATION: REQUIRED	
Span $L_1 + L_2$	Chord ∠'s
31'-0" to 40'-0"	6" X 6" X ½"

G85-11(CA) & W61C(CA)
FWBT @ STA 198+00
S2-2 LOCATION

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS
NO SCALE **SD-7**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	40	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

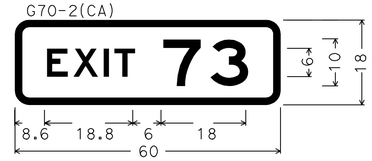
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G83(CA) & W61D(CA)

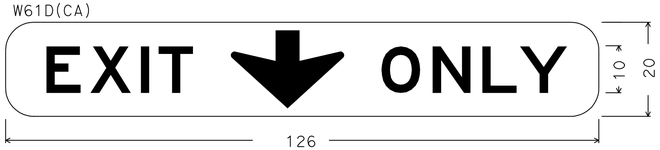
9.0" Radius, 1.5" Border, White on Green;
[Waterman Ave] E Mod;

G70-2(CA)



3.0" Radius, 1.5" Border, White on Green;
[EXIT] E; [73] E;

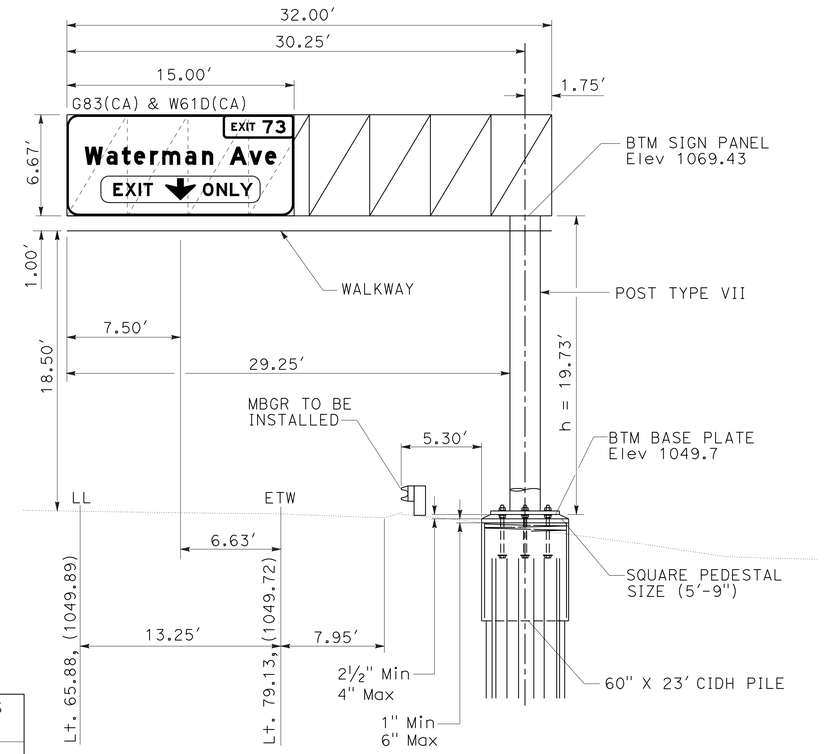
W61D(CA)



3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; Down Arrow 16.5" Black; [ONLY] Black E;

SIGN PANEL: FORMED PANEL W/RSPF*

G83(CA) & W61D(CA)
FWBT @ STA 211+50
S3-2 DETAIL



SIGN STRUCTURE TYPE: TRUSS ILLUMINATION: REQUIRED	
Span $L_1 + L_2$	Chord ∠'s
31'-0" to 40'-0"	6" X 6" X ½"

G83(CA) & W61D(CA)
FWBT @ STA 211+50
S3-2 LOCATION

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS
NO SCALE **SD-8**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	41	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G85-11(CA) & W61C(CA)

9.0" Radius, 1.5" Border, White on Green;
[Tippecanoe Ave] E Mod; Arrow 13.33UC-2LV - 29.3" 60° [Anderson St] E Mod;

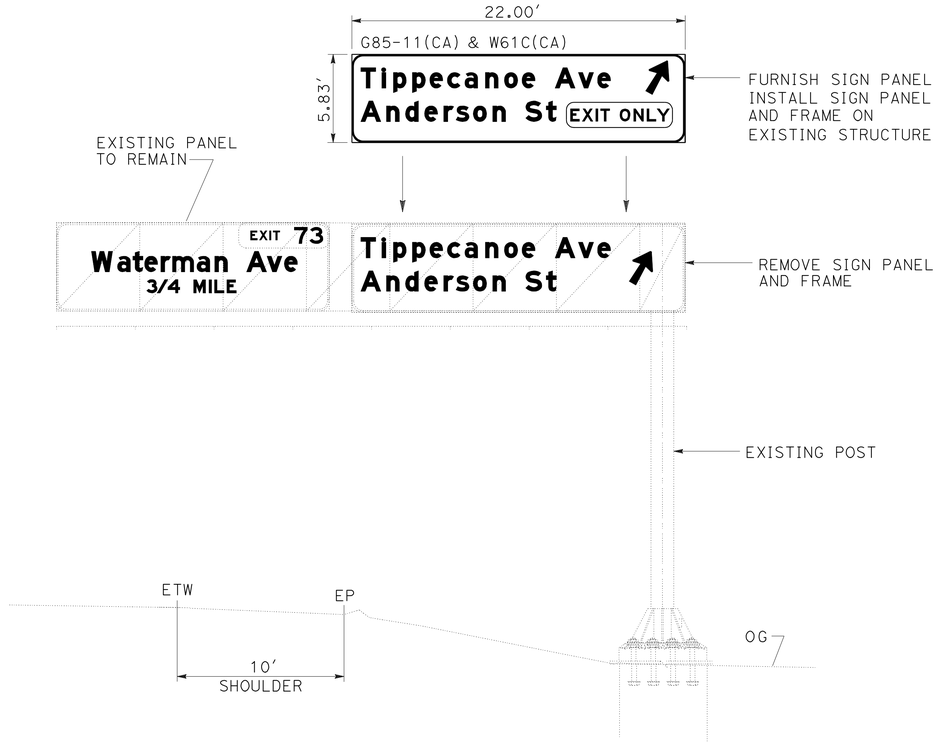
W61C(CA)

3.0" Radius, No border, White on Yellow;
[EXIT] Black E; [ONLY] Black E;

SIGN PANEL: FORMED PANEL W/RSPF*

G85-11(CA) & W61C(CA)
FWBT @ STA 246+00

S4-1 DETAIL



SIGN STRUCTURE TYPE: EXISTING TRUSS
REPLACE PANEL

G85-11(CA) & W61C(CA)
FWBT @ STA 246+00

S4-1 LOCATION

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE **SD-9**

REVISED BY | DATE REVISED
DARYUSH NAMI | TRAN HOANG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LARRY SARTORI

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

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	42	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

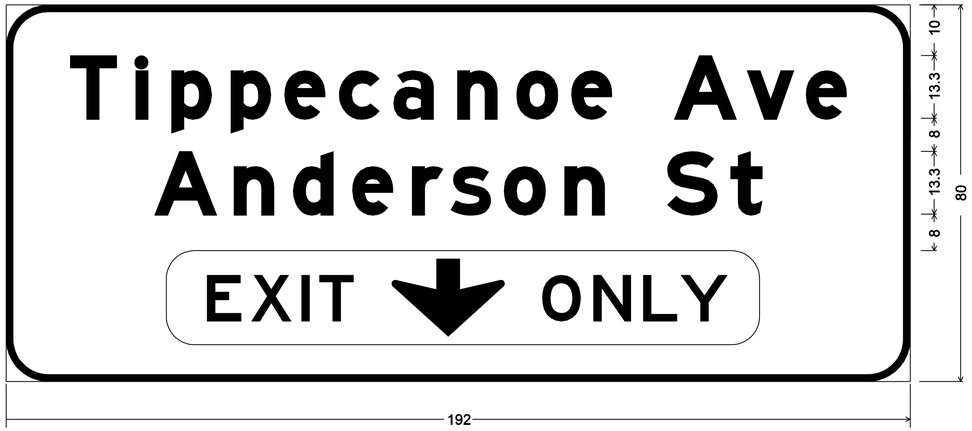
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 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.

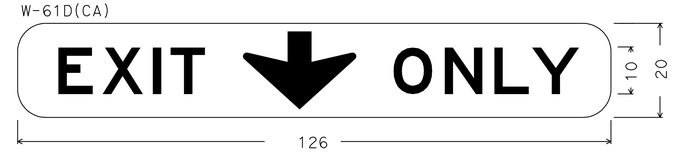
DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G83(CA) & W61D(CA)



9.0" Radius, 1.5" Border, White on Green; [Tippecanoe Ave] E Mod; [Anderson St] E Mod;

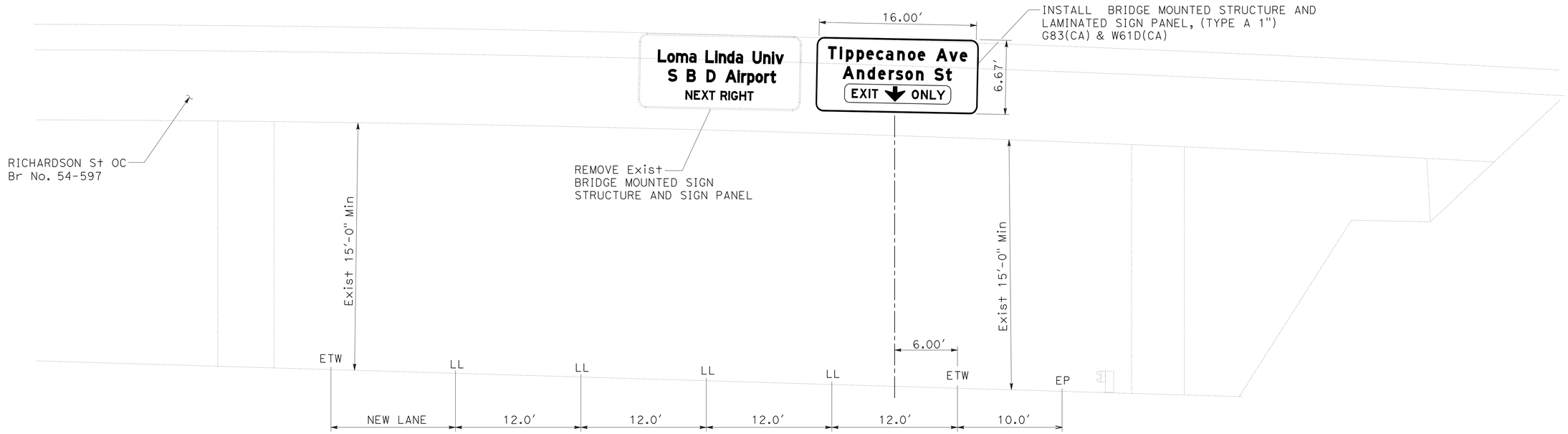
W-61D(CA)



3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; Down Arrow 16.5" Black; [ONLY] Black E;

SIGN PANEL: TYPE A 1" LAMINATED PANEL

G83(CA) & W61D(CA)
FWBT @ STA 256+60
S4-5 DETAIL



SIGN STRUCTURE TYPE: BRIDGE MOUNTED
ILLUMINATION: REQUIRED

G83(CA) & W61D(CA)
FWBT @ STA 256+60
S4-5 LOCATION

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE **SD-10**

REVISED BY | DATE REVISED
DARYUSH NAMI | TRAN HOANG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LARRY SARTORI

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

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	43	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G86-11(CA)

9.0" Radius, 1.5" Border, White on Green;
[Loma Linda Univ] E Mod; [SBD Airport] E Mod; [NEXT RIGHT] E;

SIGN STRUCTURE : (TWO POST)LAMINATED WOOD BOX POST TYPE M
SIGN PANEL: TYPE B 2½" LAMINATED PANEL

G86-11(CA) FWBT @ STA 256+90

S4-6 DETAIL

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE

SD-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	44	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

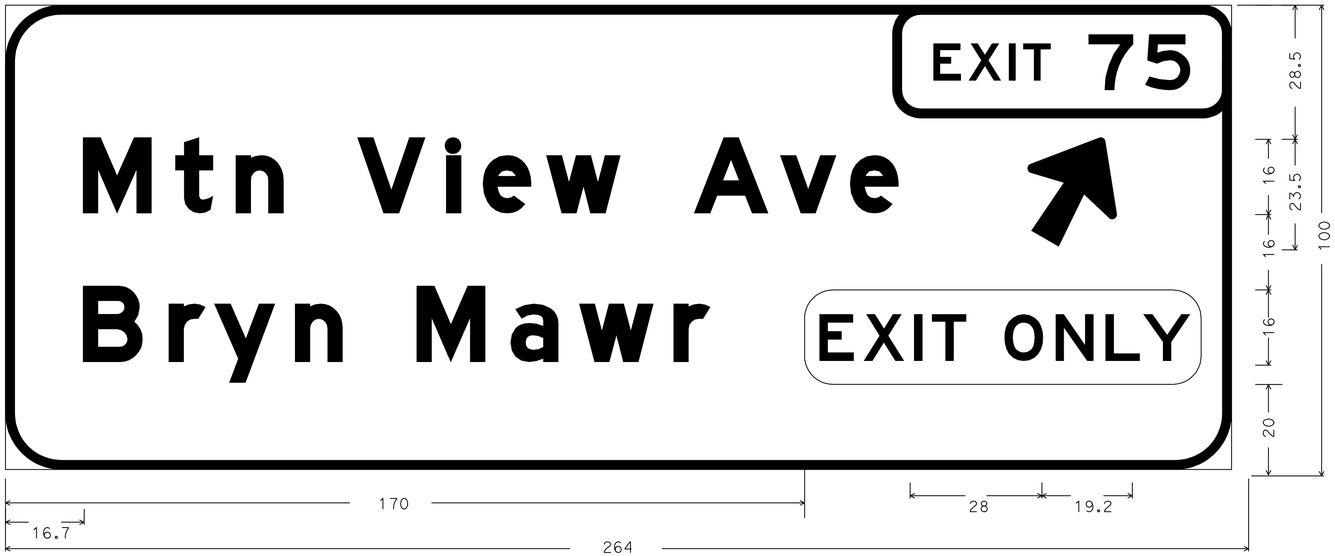
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G85-11(CA) & W61C(CA)



12.0" Radius, 2.0" Border, White on Green;
[Mtn View Ave] E Mod; [Bryn Mawr] E Mod; Arrow 16CAP-1L - 25.0" 60°

W61C(CA)

3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; [ONLY] Black E;

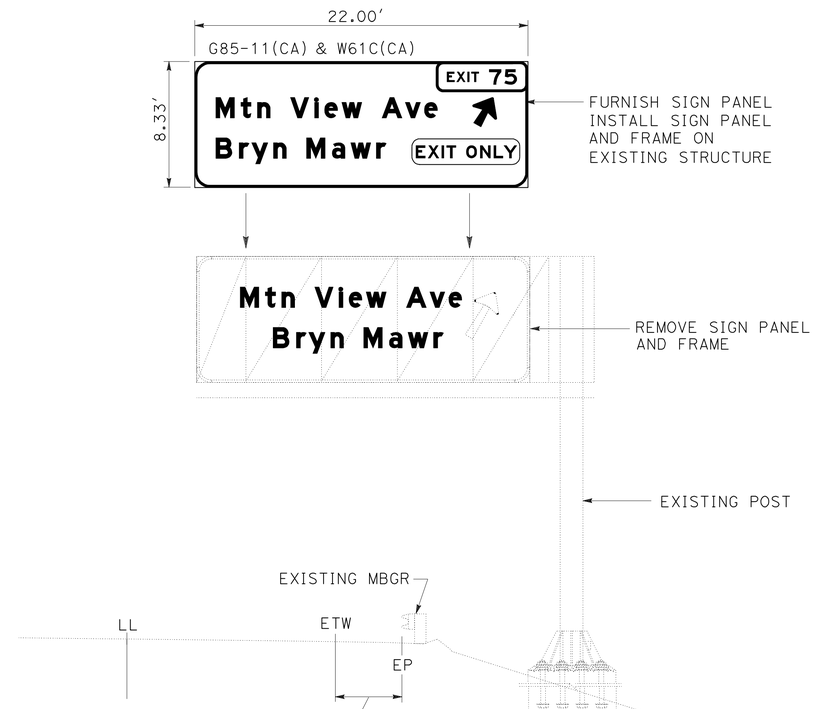
G70-2(CA)

6.0" Radius, 2.0" Border, White on Green;
[EXIT] E; [75] E;

G85-11(CA) & W61C(CA) FWBT @ STA 299+00

S6-1 DETAIL

SIGN PANEL: FORMED PANEL W/RSPF*



NOTE:

1. INSTALL SIGN PANEL AND FRAME ON EXISTING STRUCTURE

G85-11(CA) & W61C(CA)
FWBT @ STA 299+00

S6-1 LOCATION

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE **SD-12**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:41

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => fandres | DGN FILE => 80h930ob012.dgn | CU 08381 | EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	45	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

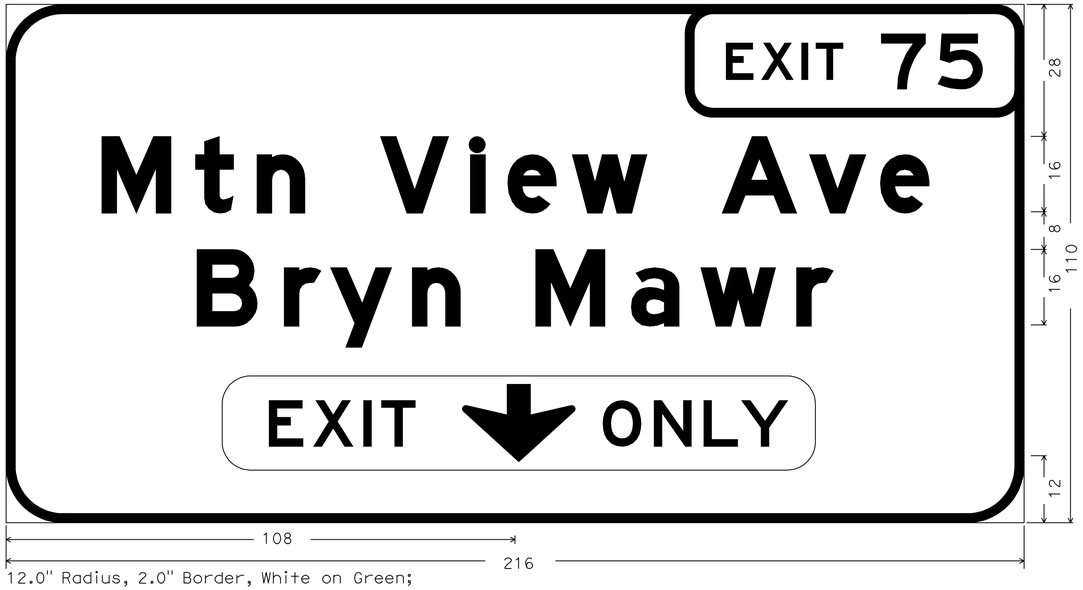
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 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.

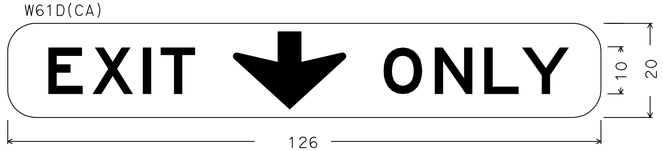
DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G83(CA) & W61D(CA)



12.0" Radius, 2.0" Border, White on Green;
[Mtn View Ave] E Mod; [Bryn Mawr] E Mod;

W61D(CA)



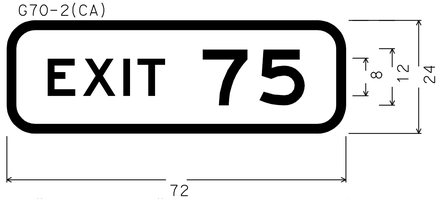
3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; Down Arrow 16.5" Black; [ONLY] Black E;

G83(CA) & W61D(CA) @ STA 309+70

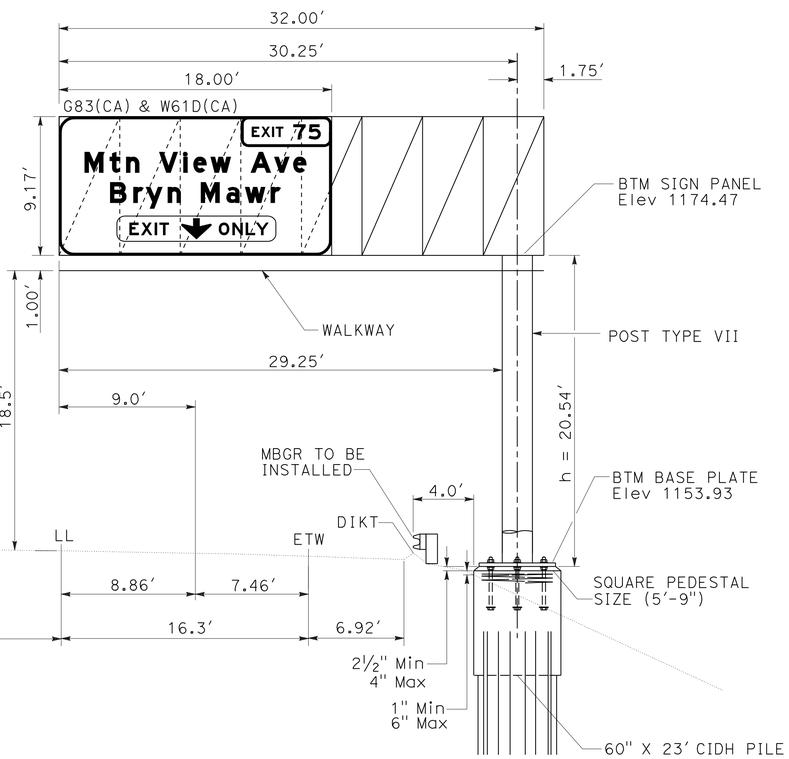
S7-3 DETAIL

SIGN PANEL: FORMED PANEL W/RSPF*

G70-2(CA)



6.0" Radius, 2.0" Border, White on Green;
[EXIT] E; [75] E;



SIGN STRUCTURE TYPE: TRUSS ILLUMINATION: REQUIRED	
Span $L_1 + L_2$	Chord ∠'s
31'-0" to 40'-0"	6" X 6" X ½"

G83(CA) & W61D(CA)
FWBT @ STA 309+70

S7-3 LOCATION

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE **SD-13**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	46	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G85-11(CA) & W61C(CA)

9.0" Radius, 1.5" Border, White on Green;
[California] E Mod; [St] E Mod; Arrow 16CAP-1L - 25.0" 60°

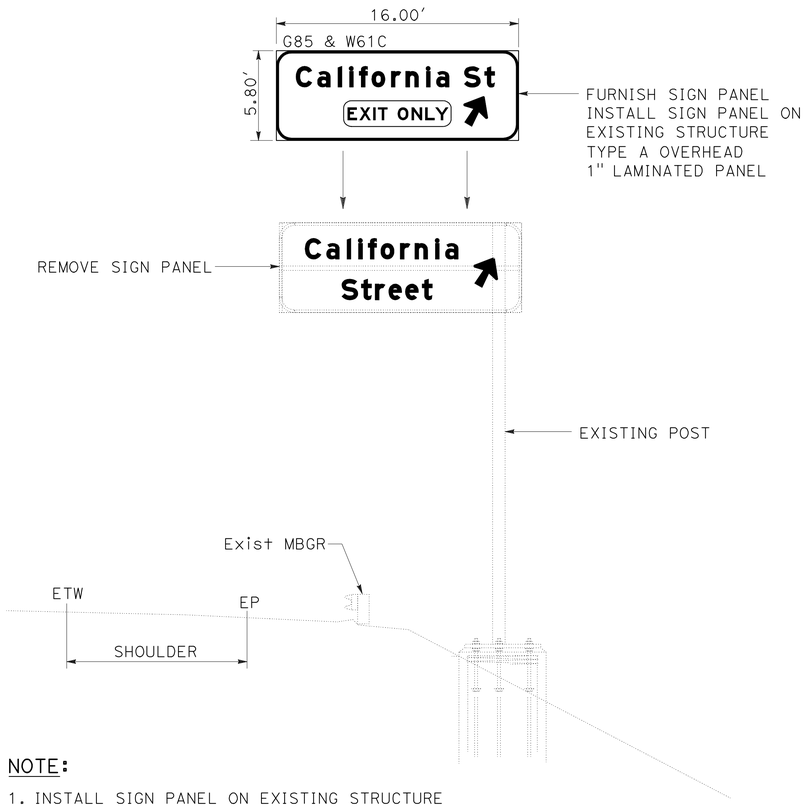
W61C(CA)

3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; [ONLY] Black E;

G85-11(CA) & W61C(CA) FWBT @ STA 351+50

S10-2 DETAIL

TYPE A OVERHEAD 1" LAMINATED PANEL



NOTE:

1. INSTALL SIGN PANEL ON EXISTING STRUCTURE

G85-11(CA) & W61C(CA)
FWBT @ 351+50

S10-2 LOCATION

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE

SD-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:41

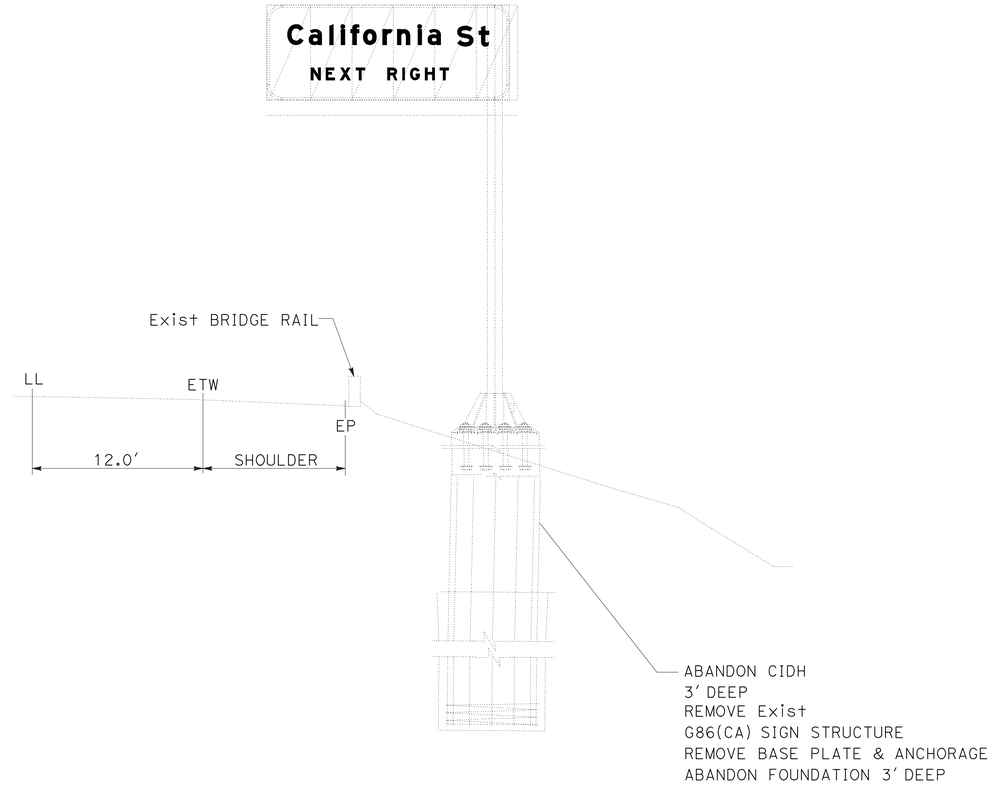
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	47	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.



REMOVE SIGN STRUCTURE

G86-11(CA)

FWBT@ STA 361+50

S11-4 LOCATION

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE

SD-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: DARYUSH NAMI

CHECKED BY: TRAN HOANG

REVISED BY

DATE REVISED

LAST REVISION 03-10-10

DATE PLOTTED => 26-MAR-2010

TIME PLOTTED => 13:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	48	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

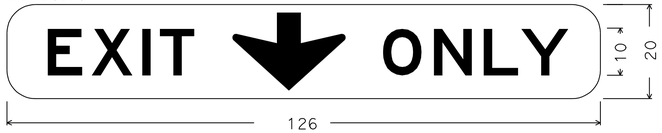
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

G83(CA) & W61D(CA)

12.0" Radius, 2.0" Border, White on Green;
[California St] E Mod;

W61D(CA)



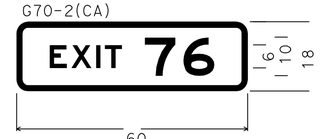
3.0" Radius, No border, Black Legend on Yellow
[EXIT] Black E; Down Arrow 16.5" Black; [ONLY] Black E;

SIGN PANEL: FORMED PANEL W/RSPF*

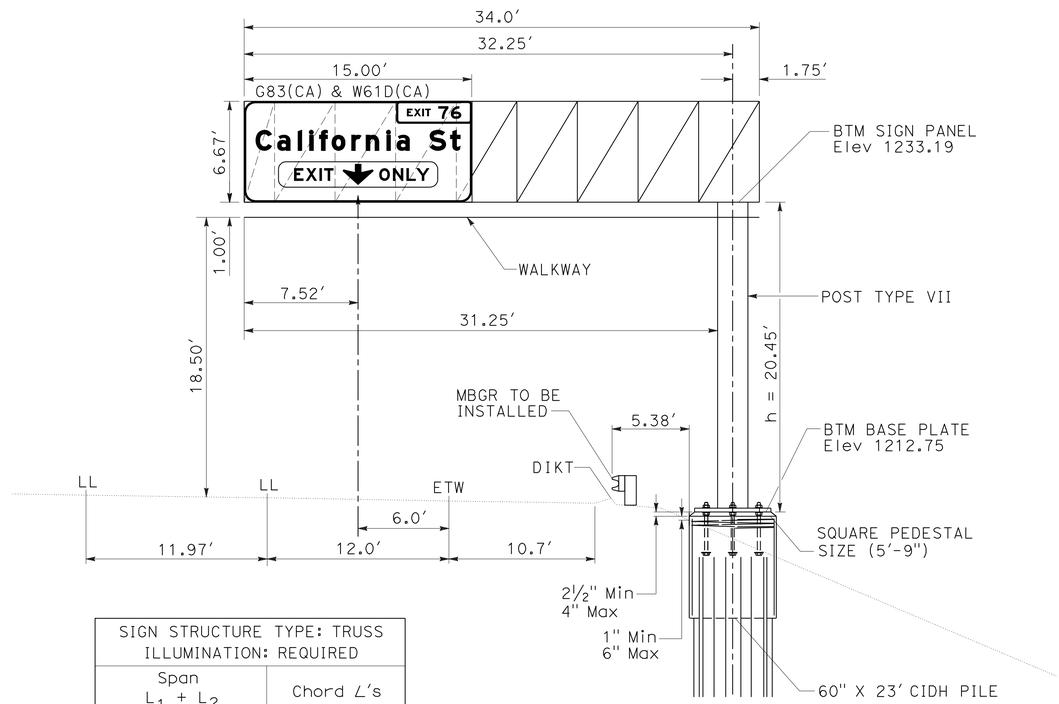
G83(CA) & W61D(CA) FWBT @ STA 361+00

S11-3 DETAIL

G70-2(CA)



3.0" Radius, 2.0" Border, White on Green;
[EXIT] E; [76] E;



SIGN STRUCTURE TYPE: TRUSS ILLUMINATION: REQUIRED	
Span $L_1 + L_2$	Chord ∠'s
31′-0" to 40′-0"	6" X 6" X ½"

G83(CA) & W61D(CA)
FWBT@ STA 361+00

S11-3 LOCATION

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE **SD-16**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	49	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

G86-13(CA)

9.0" Radius, 1.5" Border, White on Green;
[California St] E Mod; [NEXT RIGHT] E;

G86-13(CA) FWBT@ 368+00

S11-6 DETAIL

SIGN POST : (TWO POST) 6" X 8"
SIGN PANEL: TYPE B 1" LAMINATED PANEL
DIMENSIONS FOR SIGN PANEL DETAIL GIVEN IN INCHES

NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.
2. LOCATION OF THE SIGN STRUCTURE AND THE METAL BEAM GUARD RAIL THAT PROTECTS IT CAN BE OFFSET OR FIELD ADJUSTED UP TO 50 FEET FROM THE ORIGINAL PLANNED LOCATION AS DIRECTED BY THE ENGINEER.
3. RSPF* REMOVEABLE SIGN PANEL FRAME

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN DETAILS

NO SCALE **SD-17**

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

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	50	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. 54996
Exp. 6-30-10
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.

SIGN PANEL MATERIAL SUMMARY

SIGN No.	WB STA	SIGN CODE	SIGN SIZE L X D (IN X IN)	SINGLE FACED	SIGN FACING MATERIAL: BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVE & ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVE & ASTM TYPE	PROTECTIVE FILM STANDARD	PROTECTIVE FILM PREMIUM	SIGN PANEL SUBSTRATE MATERIAL SQFT: ROADSIDE SINGLE - SHEET FRAMED ALUMINUM 0.063" SQFT	ROADSIDE SINGLE - SHEET UNFRAMED ALUMINUM 0.080" SQFT	ROADSIDE LAMINATED TYPE B GROUND MOUNT 1" LAMINATED PANEL SQFT	ROADSIDE LAMINATED TYPE H GROUND MOUNT 2½" LAMINATED PANEL SQFT	OVERHEAD FORMED WITH REMOVABLE SIGN PANEL FRAME SQFT	OVERHEAD LAMINATED TYPE A 1" SQFT	REMARKS
S2-2	198+00	G85-11(CA)	240 X 80	X	GREEN	IV	WHITE	IV		X					133.3		Waterman Ave ARROW
		W61C(CA)	84 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ONLY
S3-2	211+50	G83(CA)	180 X 80	X	GREEN	IV	WHITE	IV		X					100.0		Waterman Ave
		W61D(CA)	126 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ARROW ONLY
S4-1	246+00	G85-11(CA)	264 X 70	X	GREEN	IV	WHITE	IV		X					128.3		Tippecanoe Ave Anderson St ARROW
		W61C(CA)	84 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ONLY
S4-2	250+50	R18(CA)	66 X 48	X	WHITE	IV	BLACK	IV		X	22						RIGHT LANE MUST EXIT
S4-3	254+50	W4-7(LEFT)	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					THRU TRAFFIC MERGE LEFT
S4-5	256+60	G83(CA)	192 X 80	X	GREEN	IV	WHITE	IV		X						106.7	Tippecanoe Ave Anderson St
		W61D(CA)	126 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ARROW ONLY
S4-6	256+90	G86-11(CA)	216 X 90	X	GREEN	IV	WHITE	IV		X				135			Loma Linda Univ SBD Airport NEXT RIGHT
S5-1	267+50	W4-3R	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					ADDED LANE FROM RIGHT
S6-1	299+00	G85-11(CA)	264 X 100	X	GREEN	IV	WHITE	IV		X					183.4		Mtn View Ave Bryn Mawr ARROW
		W61C(CA)	84 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ONLY
S7-1	303+50	R18(CA)	66 X 48	X	WHITE	IV	BLACK	IV		X	22						RIGHT LANE MUST EXIT
S7-2	307+50	W4-7(LEFT)	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					THRU TRAFFIC MERGE LEFT
S7-3	309+70	G83(CA)	216 X 110	X	GREEN	IV	WHITE	IV		X					165.0		Mtn View Ave Bryn Mawr
		W61D(CA)	126 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ARROW ONLY
S8-1	320+25	W4-3R	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					ADDED LANE FROM RIGHT
S9-1	340+23	W4-2R	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					LANE ENDS FROM RIGHT
S10-1	345+00	W9-1	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					RIGHT LANE ENDS
S10-2	351+50	G85-11(CA)	192 X 70	X	GREEN	IV	WHITE	IV		X						93.3	California St ARROW
		W61C(CA)	84 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ONLY
S11-2	358+00	R18(CA)	66 X 48	X	WHITE	IV	BLACK	IV		X	22						RIGHT LANE MUST EXIT
S11-3	361+00	G83(CA)	180 X 80	X	GREEN	IV	WHITE	IV		X					100.0		California St
		W61D(CA)	126 X 20	X	YELLOW	IV	BLACK	IV		X							EXIT ARROW ONLY
S11-5	364+00	W4-7(LEFT)	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					THRU TRAFFIC MERGE LEFT
S11-6	368+00	G86-13(CA)	156 X 60	X	GREEN	IV	WHITE	IV		X			65				California St NEXT RIGHT
S12-1	373+00	W4-7(LEFT)	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					THRU TRAFFIC MERGE LEFT
S12-2	377+00	W4-7(LEFT)	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					THRU TRAFFIC MERGE LEFT
S12-3	378+50	W9-2L	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					LANE ENDS MERGE LEFT
S13-1	389+50	W4-1R	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					MERGE FROM RIGHT
S13-2	394+50	W4-7(LEFT)	48 X 48	X	YELLOW	IV	BLACK	IV		X		16.0					THRU TRAFFIC MERGE LEFT
TOTAL											66.0	192.0	65.0	135.0	810	200	

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

SIGN QUANTITIES

SQ-1

REVISED BY | DATE REVISED

DARYUSH NAMI | TRAN HOANG

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN B

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	51	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TRAN HOANG No. 54996 Exp. 6-30-10 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

SIGN No.	WB STA & LOCATION	SIGN CODE	SIGN SIZE L X D IN X IN	POST LENGTH LEFT	POST LENGTH RIGHT	POST SIZE 4 X 6	POST SIZE 6 X 6	POST SIZE 6 X 8	LAMINATED WOOD BOX L	LAMINATED WOOD BOX M	ONE POST	TWO POST	REMOVE
				LF	LF	IN x IN			EA	EA	EA	EA	EA
S2-3	198+50	G85-11(CA)	- X -	-	-	-	-	-	-	-	-	-	1
S4-2	250+50	R18(CA)	66 X 48	14.5	14.5	X		-	-	-	-	1	-
S4-3	254+50	W4-7(LEFT)	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S4-6	256+90	G86-11(CA)	216 X 90	20.5	20.5	-	-	-	-	1	-	-	-
S5-1	267+50	W4-3R	48 X 48	16.7	-	-	X	-	-	-	1	-	1
S7-1	303+50	R18(CA)	66 X 48	14.5	14.5	X		-	-	-	-	1	-
S7-2	307+50	W4-7(LEFT)	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S8-1	320+25	W4-3R	48 X 48	16.7	-	-	X	-	-	-	1	-	1
S9-1	340+23	W4-2R	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S10-1	345+00	W9-1	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S11-2	358+00	R18(CA)	66 X 48	14.5	14.5	X	-	-	-	-	-	1	-
S11-5	364+00	W4-7(LEFT)	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S11-6	368+00	G86-13(CA)	156 X 60	14.5	14.5	-	-	X	-	-	-	1	-
S12-1	373+00	W4-7(LEFT)	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S12-2	377+00	W4-7(LEFT)	48 X 48	16.7	-	-	X	-	-	-	1	-	-
S12-3	378+50	W9-2L	48 X 48	16.7	-	-	X	-	-	-	1	-	1
S13-1	389+00	W4-1R	48 X 48	16.7	-	-	X	-	-	-	1	-	1
S13-2	394+50	W4-7(LEFT)	48 X 48	16.7	-	-	X	-	-	-	1	-	-
TOTAL										1	12	4	5

OVERHEAD SIGN QUANTITIES

SIGN No.	WB STA	SIGN CODE	SIGN SIZE L x D (IN x IN)	REMOVE SIGN STRUCTURE ABANDON BASE PLATE & ANCHORAGE 3' DEEP	REMOVE SIGN PANEL WITH FRAME	REMOVE SIGN PANEL W/O FRAME	REMOVE BRIDGE MOUNTED SIGN	FURNISH SIGN STRUCTURE BRIDGE MOUNTED W / WALKWAY	INSTALL SIGN STRUCTURE BRIDGE MOUNTED W / WALKWAY	FURNISH SIGN STRUCTURE (TRUSS)	INSTALL SIGN STRUCTURE (TRUSS)	FURNISH FORMED PANEL SIGN (OVERHEAD)	FURNISH LAMINATED PANEL SIGN (1"-TYPE A)	CIDH CONCRETE PILE SIGN FOUNDATION 60 INCH	INSTALL SIGN PANEL ON EXISTING STRUCTURE
				EA	EA	EA	EA	LB	LB	LB	LB	SQFT	SQFT	LF	SQFT
S2-2	198+00	G85-11(CA) & W61C(CA)	240 X 80							18600	18600	133.3		23	
S3-2	211+50	G83(CA) & W61D(CA)	180 X 80							17900	17900	100.0		23	
S4-1	246+00	G85-11(CA) & W61C(CA)	264 X 70		1							128.3			128.3
S4-4	256+60	G86(CA)	264 X 80				1	0	0						
S4-5	256+60	G83(CA) & W61D(CA)	192 X 80					1330	1330				106.7		
S6-1	299+00	G85-11(CA) & W61C(CA)	264 X 100		1							183.3			183.3
S7-3	309+70	G83(CA) & W61D(CA)	216 X 110							18650	18650	165.0		23	
S10-2	351+50	G85-11(CA) & W61C(CA)	192 X 70			1							93.3		93.3
S11-3	361+00	G83(CA) & W61D(CA)	180 X 80							18500	18500	100.0		23	
S11-4	361+50	G86(CA)	-	1		-	-	-	-	-	-	-	-	-	-
TOTAL				1	2	1	1	1330	1330	73650	73650	810.0	200.0	92.0	404.9

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE SIGN FABRICATION.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

SIGN QUANTITIES

SQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: DARYUSH NAMI
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	52	75

REGISTERED CIVIL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SAMER GEORGES No. 73990 Exp. 6-30-11 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.

METAL BEAM GUARD RAILING

STATION	MBGR (WOOD POST)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	END ANCHOR ASSEMBLY (TYPE SFT)	NOTE
	LF	EA	EA	
198+00 L+	37.5	1	1	
211+50 L+	37.5	1	1	
309+70 L+	37.5	1	1	
361+00 L+	37.5	1	1	
TOTAL	150	4	4	

NOTE:

1. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED

SAMER GEORGES | ANH V. PHAN

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: RENEE SASSE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	53	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

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

PROJECT NOTES FOR SHEETS (E-1 THRU E-12)

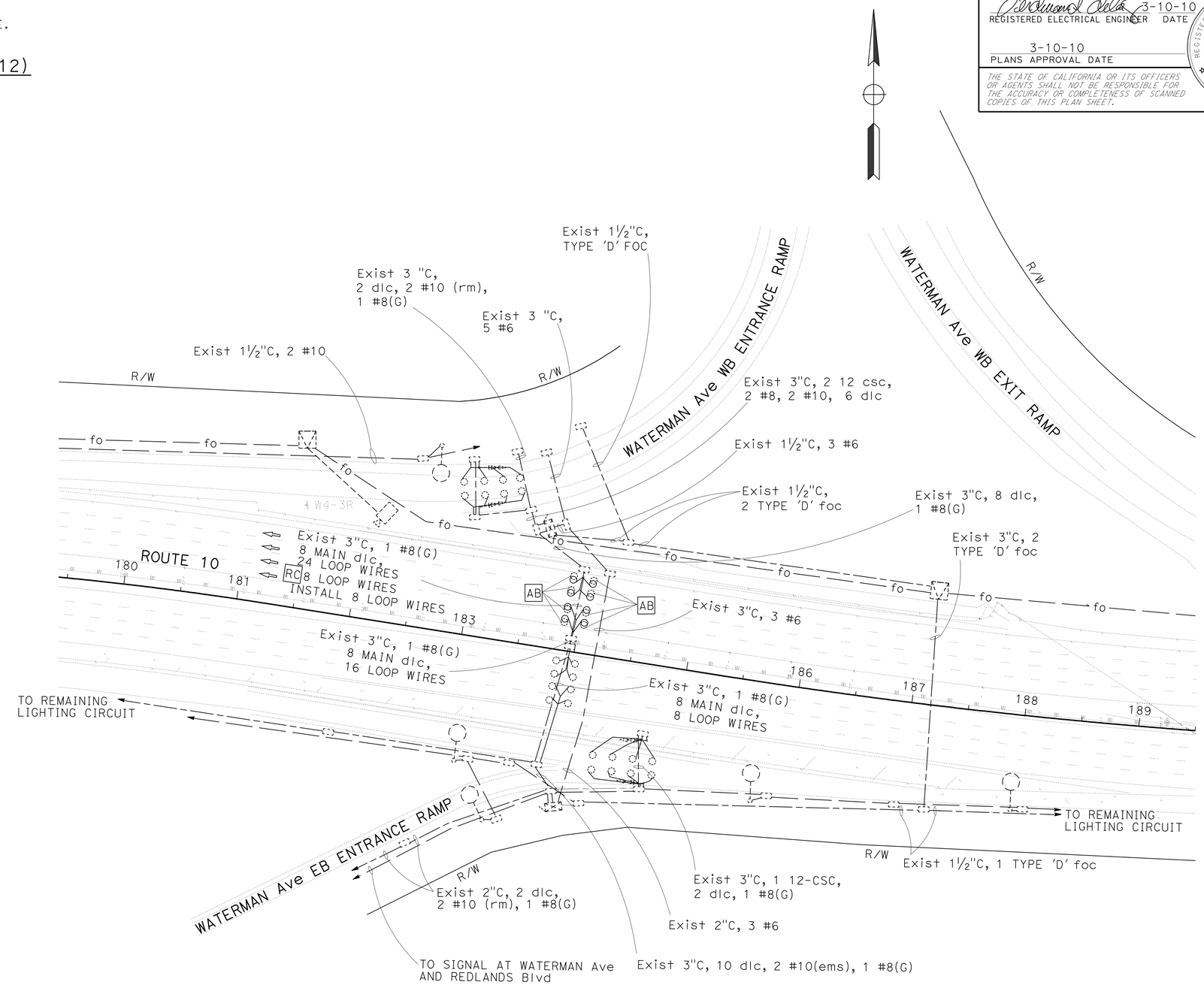
1. INSTALL INDUCTION SIGN LIGHTING FIXTURE
2. Exist cctv
3. SEE DETAIL SHEET SD-1 FOR DETAILS
4. SEE DETAIL SHEET SD-2 FOR DETAILS
5. SEE DETAIL SHEET SD-4 FOR DETAILS
6. SEE DETAIL SHEET SD-7 FOR DETAILS

LEGEND

—— fo —— —— —— EXISTING 4" FIBER OPTIC CONDUIT

ABBREVIATIONS

CSC CONDUCTOR SIGNAL CABLE
foc EXISTING FIBER OPTIC CABLE
CTID CALTRANS IDENTIFICATION NUMBER



INDUCTIVE LOOP DETECTOR

SCALE: 1" = 50'

E-1

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:42

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => fandres | DGN FILE => 80h930ua001.dgn | CU 08396 | EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	54	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

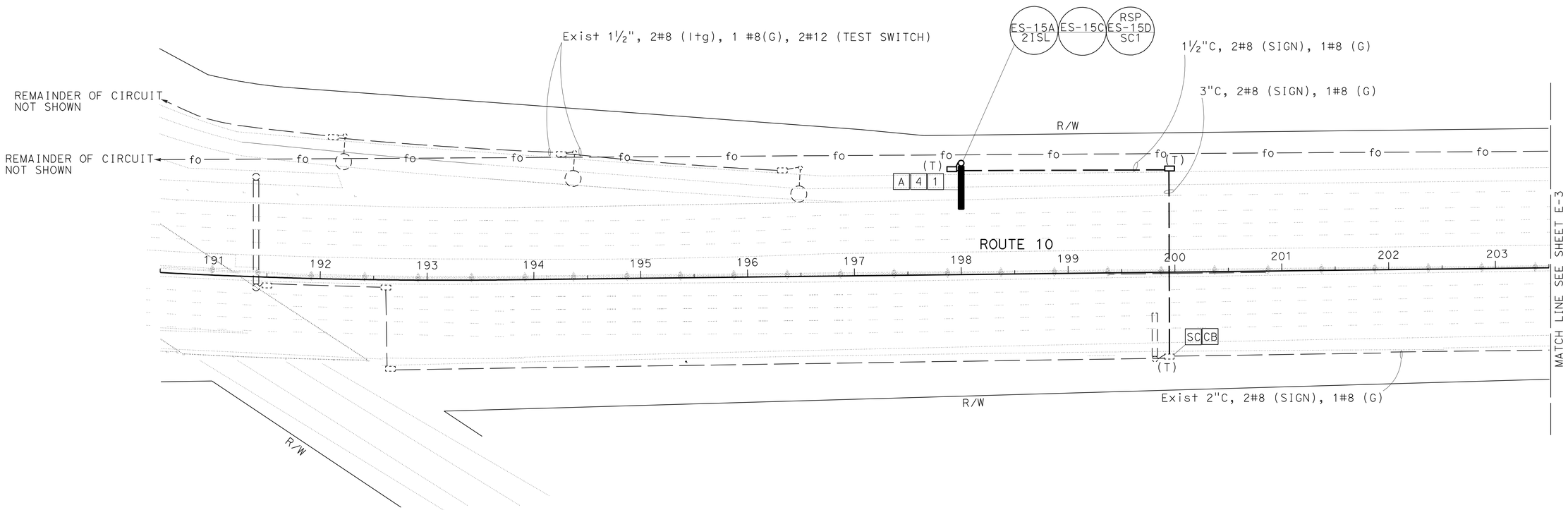
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

PROJECT NOTES-THIS SHEET ONLY

A INSTALL 1.75KVA, 1PH, 60HZ, 480V TO 240V/120V STEP-DOWN TRANSFORMER IN NEMA TYPE 3R ENCLOSURE



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

SIGN ILLUMINATION

SCALE: 1" = 50'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	55	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

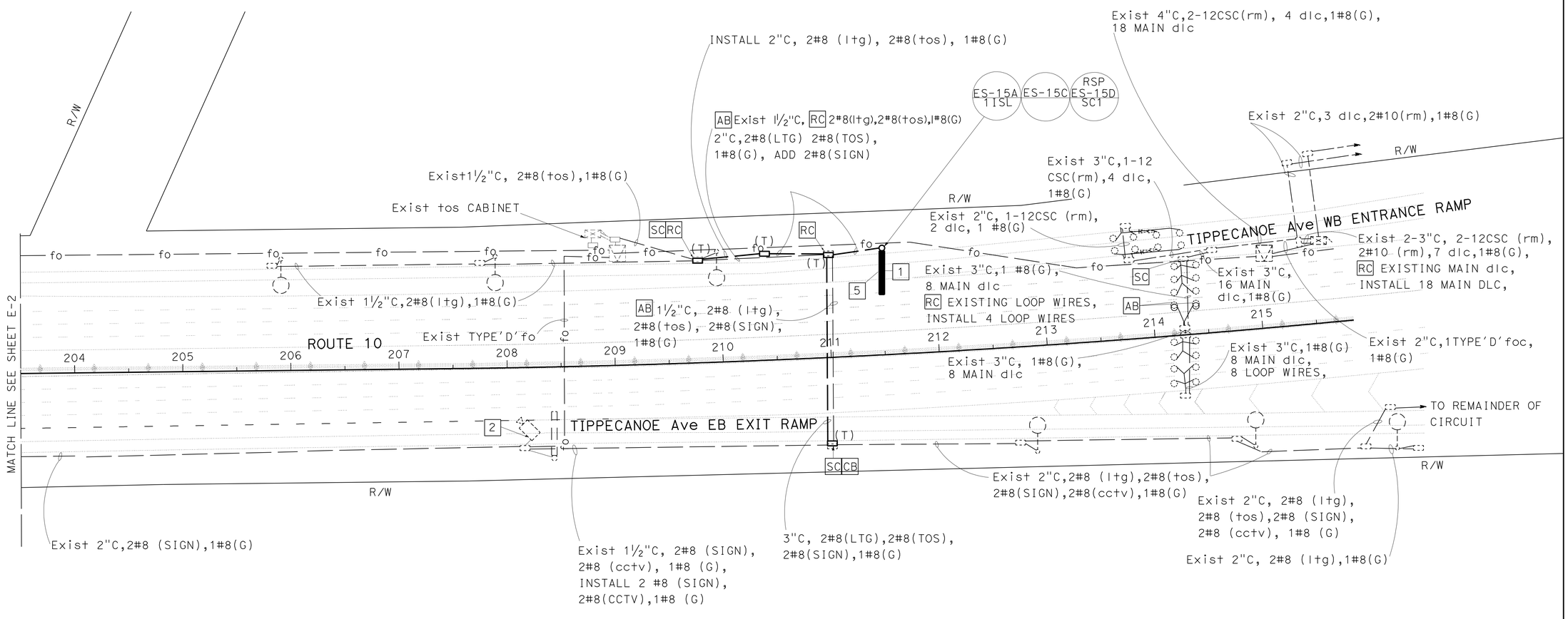
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

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



INDUCTIVE LOOP DETECTORS
SIGN ILLUMINATION

SCALE: 1" = 50'

E-3

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	56	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

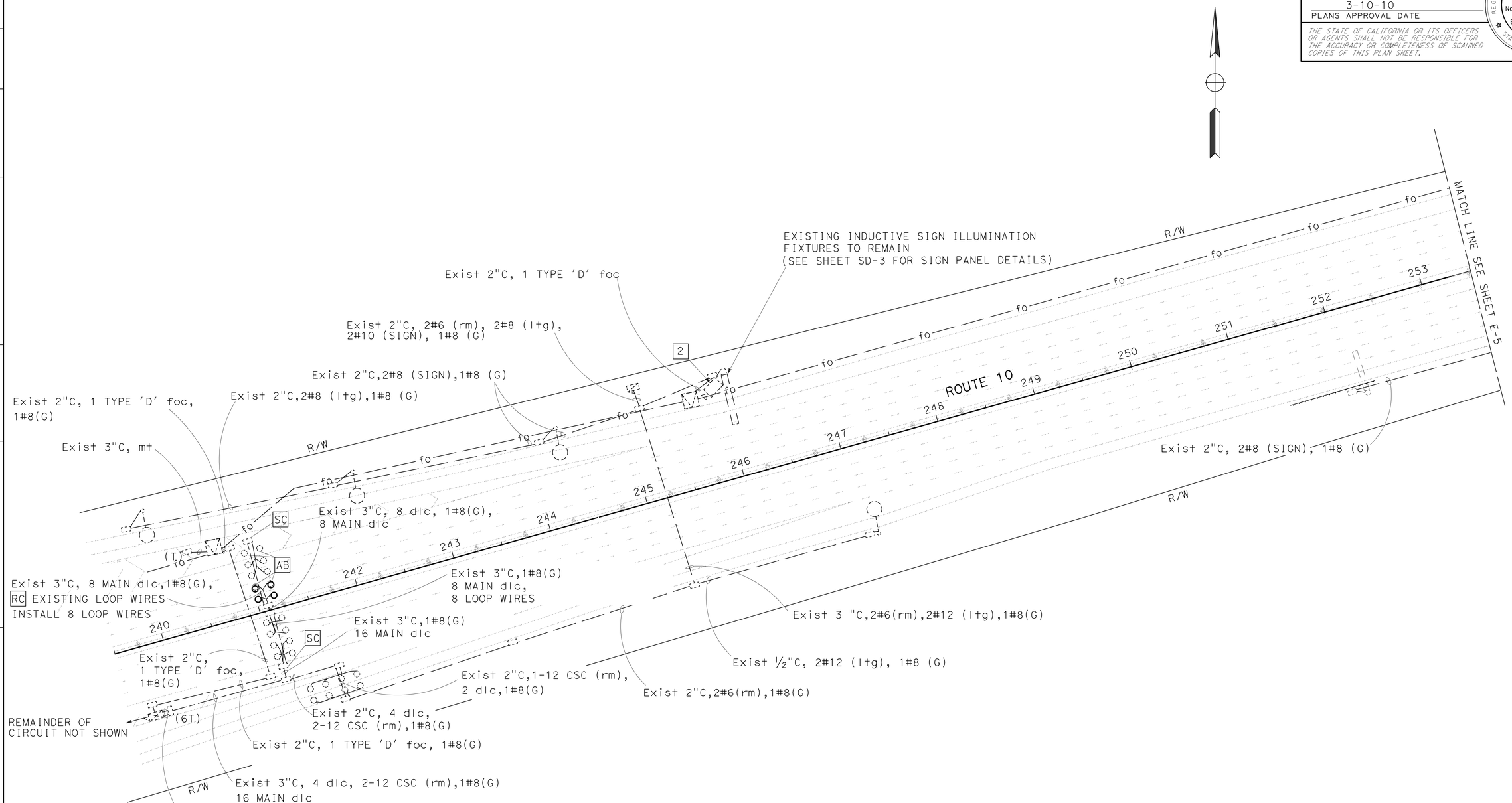
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

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



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

INDUCTIVE LOOP DETECTOR

SCALE: 1" = 50'

E-4

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ

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

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	57	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

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

PROJECT NOTES-THIS SHEET ONLY

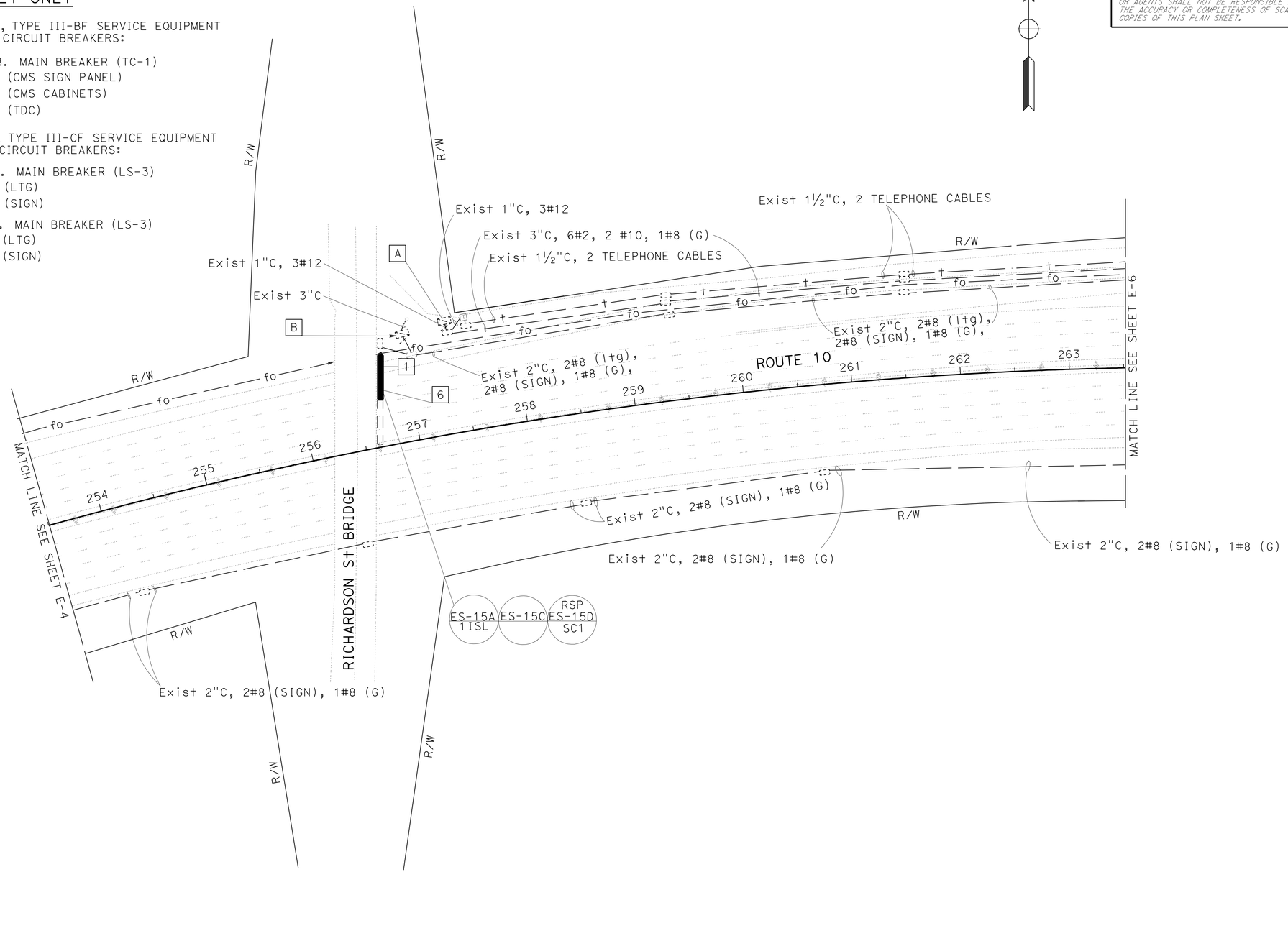
A EXISTING 120/240 V, 1Ø, 3 WIRE, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (TC-1)
60 A, 240 V, 2P, CB. (CMS SIGN PANEL)
30 A, 120 V, 1P, CB. (CMS CABINETS)
15 A, 120 V, 1P, CB. (TDC)

B EXISTING 120/240 V, 1Ø, 3 WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
15 A, 240 V, 2P, CB. (LTG)
25 A, 240 V, 2P, CB. (SIGN)

METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
15 A, 240 V, 2P, CB. (LTG)
25 A, 240 V, 2P, CB. (SIGN)



MODIFY SIGN ILLUMINATION

SCALE: 1" = 50'

E-5

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	58	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

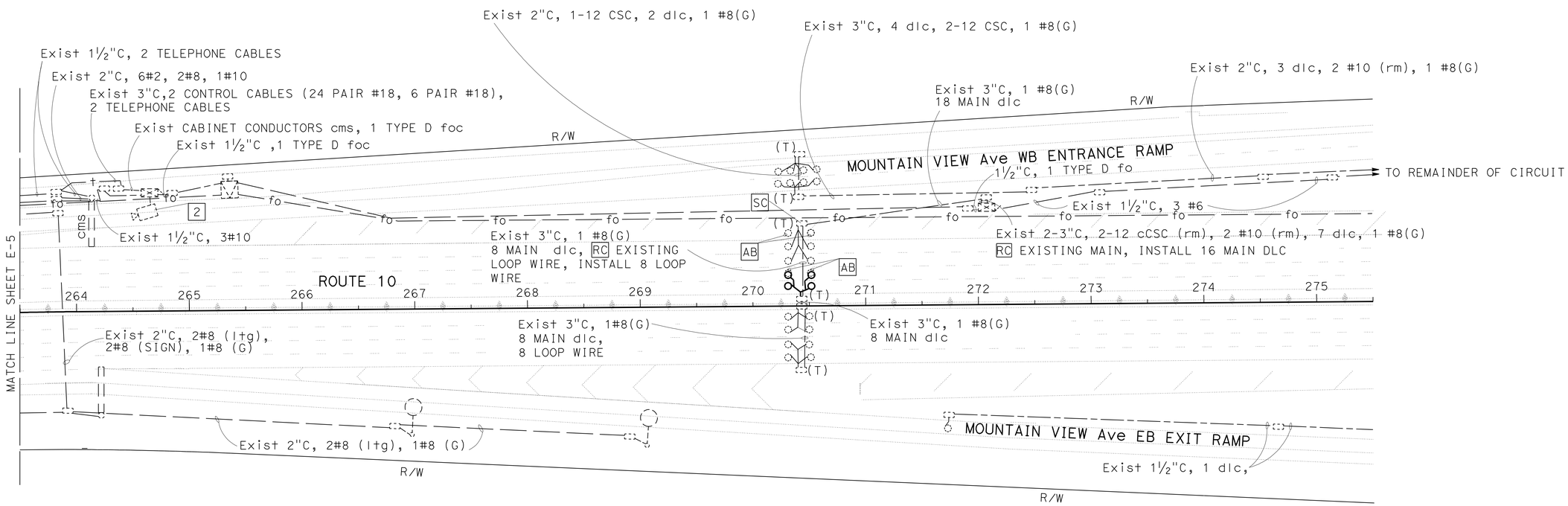
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
FERDINAND DE LA CRUZ
No. E 17215
Exp. 6-30-10
ELECTRICAL
STATE OF CALIFORNIA

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

NOTE:

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



INDUCTIVE LOOP DETECTOR

SCALE: 1" = 50'

E-6

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ

CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ

REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	59	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

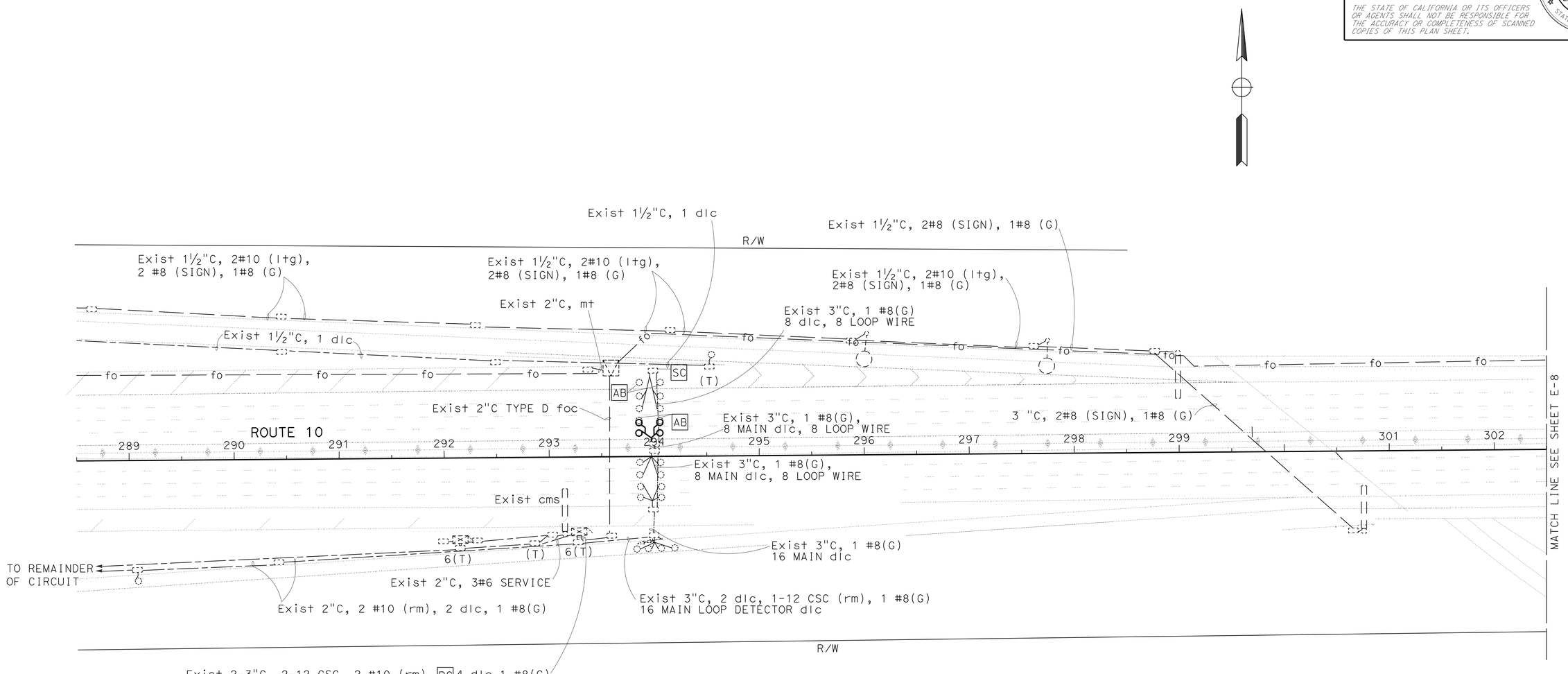
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

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



EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

INDUCTIVE LOOP DETECTOR

SCALE: 1" = 50'

E-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ

CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ

REVISED BY
DATE REVISED

LAST REVISION 03-10-10 | DATE PLOTTED => 26-MAR-2010 | TIME PLOTTED => 13:43

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => fandres
DGN FILE => 80h930ua007.dgn

CU 08396

EA 0H9301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	60	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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NOTE:

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

PROJECT NOTES: THIS SHEET ONLY

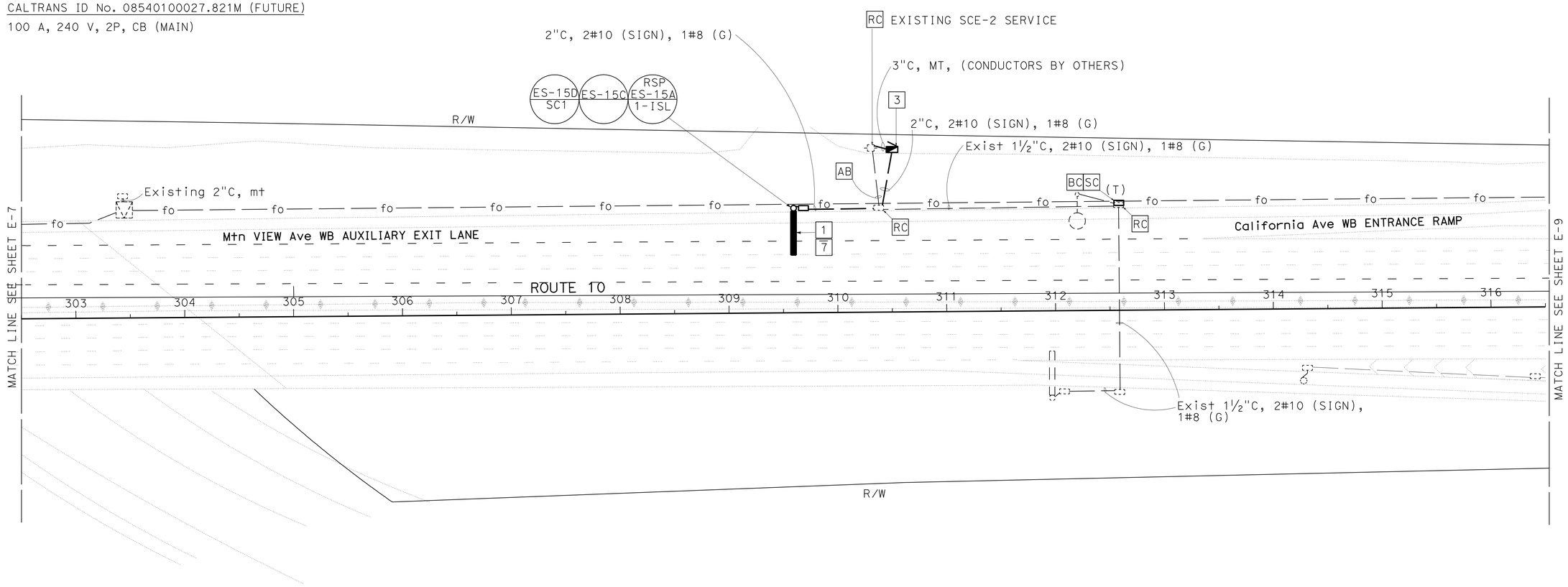
8 INSTALL 120/240 V, 1Ø, 3 WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AS PER RSP ES-2C AND PER RSP ES-2F, WITH THE FOLLOWING CIRCUIT BREAKERS:
(ADDRESS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX)

METER A:
CALTRANS ID No. 08540100027.820M

100 A, 240 V, 2P, CB (MAIN) (LS-3)
30 A, 240 V, 2P, CB (LTG)
30 A, 240 V, 2P, CB (SIGN ILLUMINATION)

METER B: (METER SHALL NOT BE INSTALLED ON THIS PROJECT)
CALTRANS ID No. 08540100027.821M (FUTURE)

100 A, 240 V, 2P, CB (MAIN)



SIGN ILLUMINATION

SCALE: 1" = 50'

E-8

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY / DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	61	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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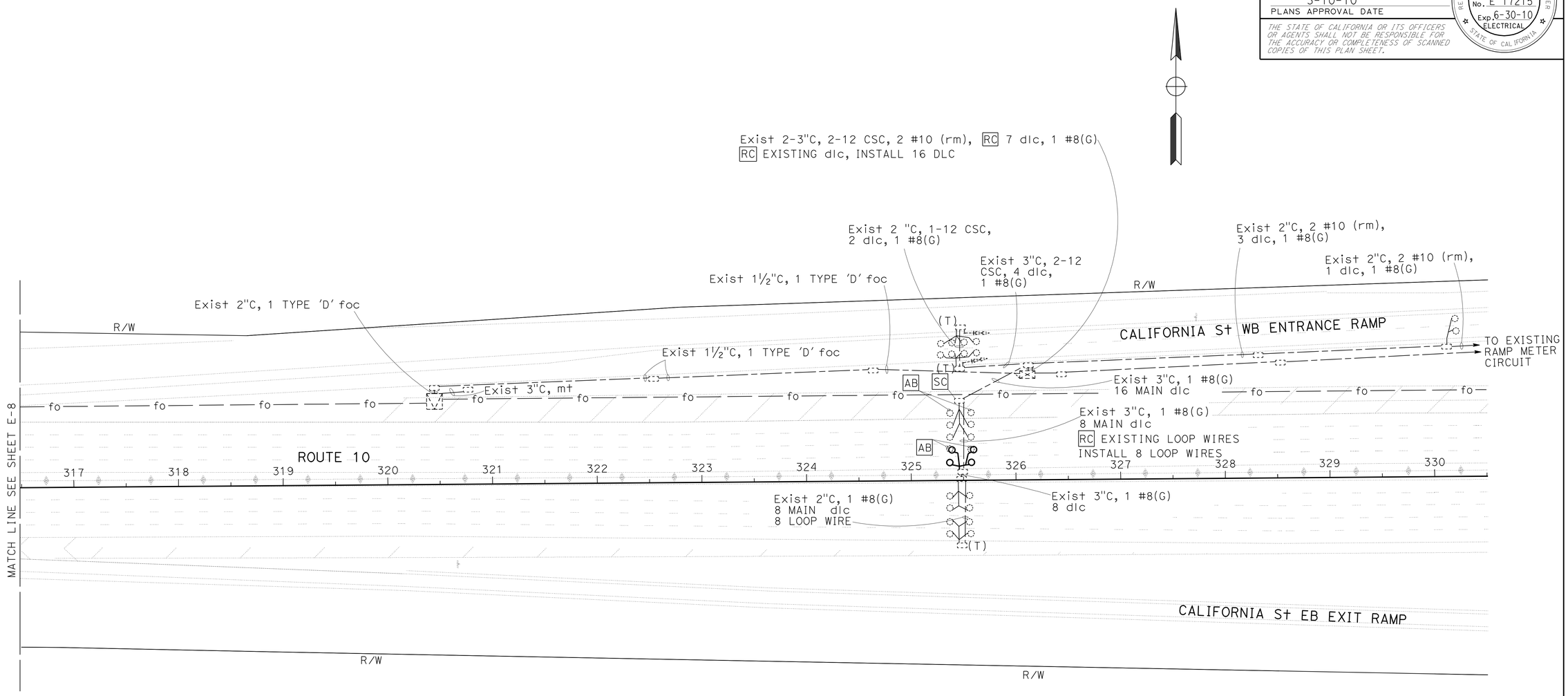
NOTE:

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



INDUCTIVE LOOP DETECTOR

SCALE: 1" = 50'

E-9

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	62	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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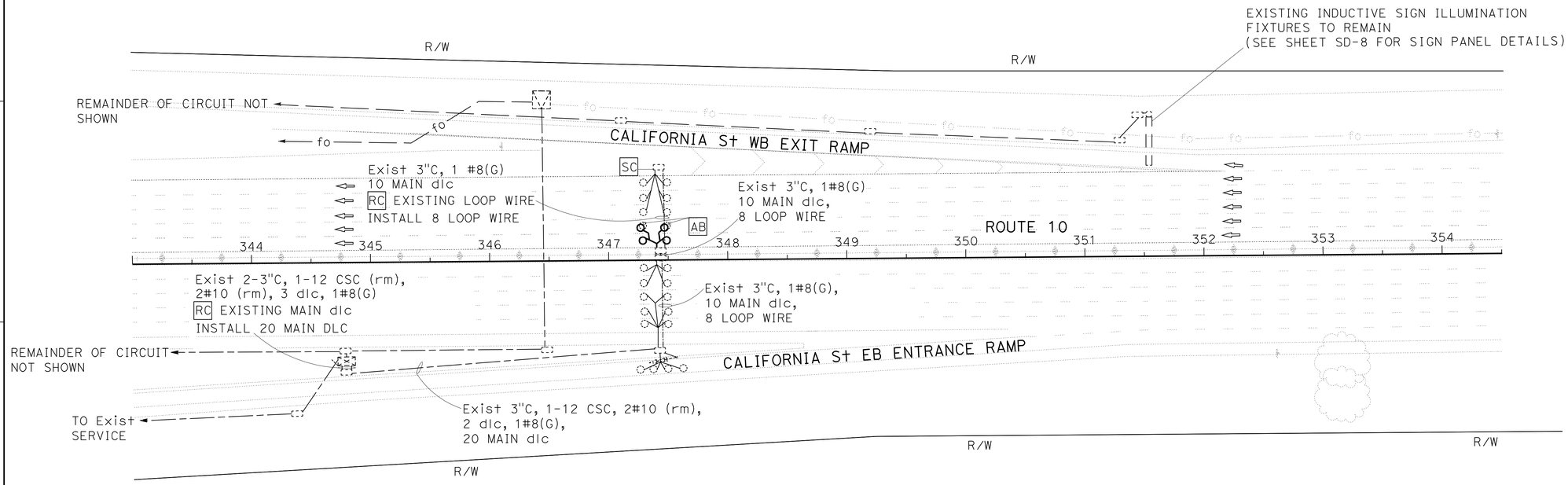
NOTE:

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

PROJECT NOTES-THIS SHEET ONLY

RC EXISTING MAIN LINE LOOP DETECTOR dlc AND LOOP WIRE.
INSTALL NEW DLCs AND LOOP WIRE ACCORDING TO THIS SHEET.



INDUCTIVE LOOP DETECTOR

SCALE: 1" = 50'

E-10

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	25.3/29.3	63	75

REGISTERED ELECTRICAL ENGINEER 3-10-10 DATE

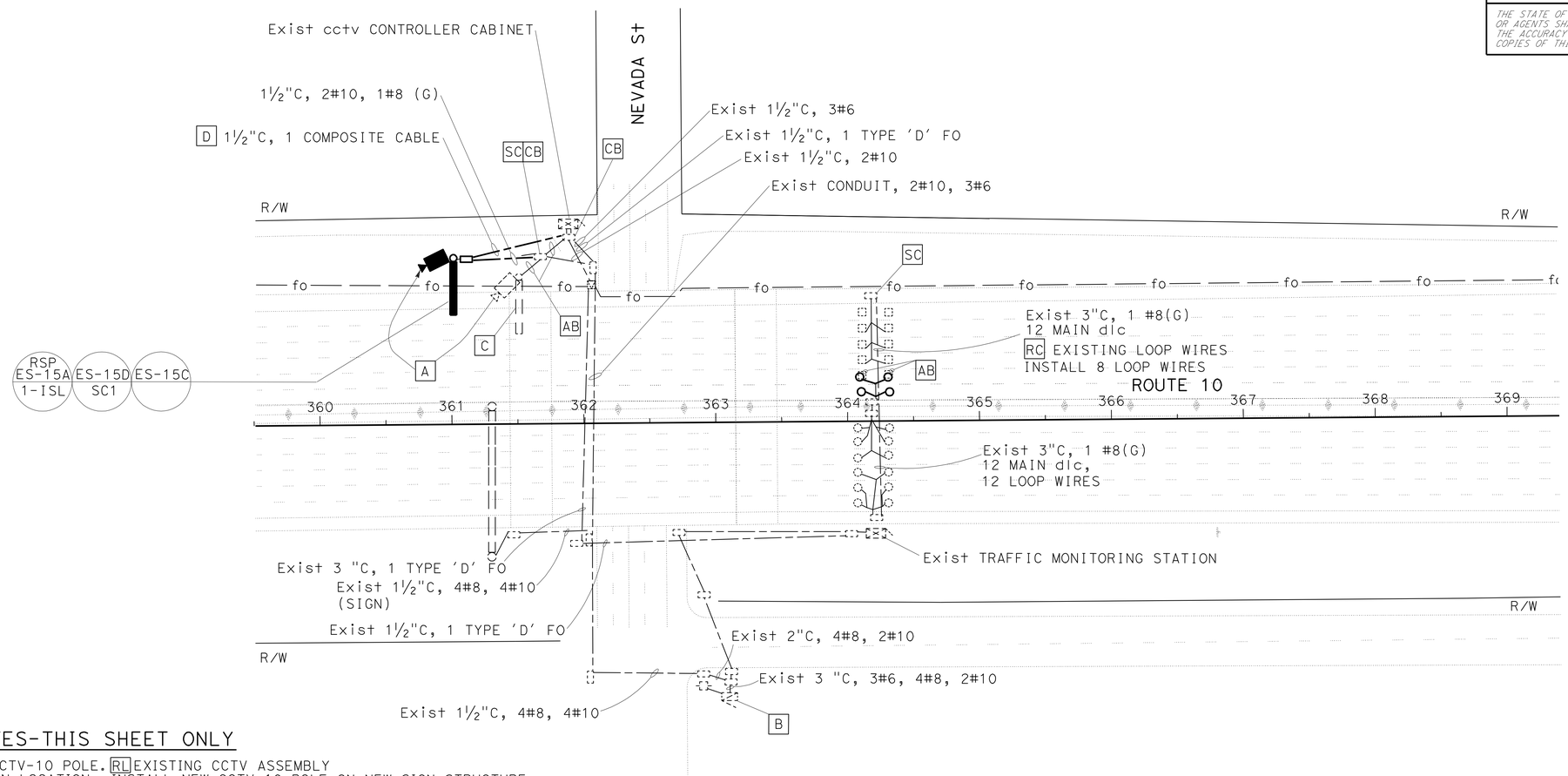
3-10-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E 17215 Exp. 6-30-10 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

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



PROJECT NOTES-THIS SHEET ONLY

A RC EXISTING CCTV-10 POLE. RL EXISTING CCTV ASSEMBLY TO NEW SIGN LOCATION. INSTALL NEW CCTV-10 POLE ON NEW SIGN STRUCTURE. THE CCTV WILL BE TESTED AS DIRECTED BY THE ENGINEER:

1. PRIOR TO REMOVAL
2. AFTER IT HAS BEEN RELOCATED TO THE NEW SIGN STRUCTURE

B EXISTING 120/240 V, 1Ø, 3 WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

METER A: 100 A, 240 V, 2P, CB. (MAIN) (TC-1)
20 A, 120 V, 1P, CB. (CCTV)
30 A, 120 V, 1P, CB. (TMS)

METER B: 100 A, 240 V, 2P, CB. (MAIN) (LS-3)
30 A, 240 V, 2P, CB. (LTG)
20 A, 240 V, 2P, CB. (SIGN)

C RC SIGN FIXTURES AND ELECTRICAL EQUIPMENT

D THE COMPOSITE CABLE WILL BE STATE-FURNISHED. THE CONTRACTOR SHALL INSTALL STATE-FURNISHED CONNECTORS ON BOTH ENDS OF THE CABLE PRIOR TO CONNECTING THE CABLE TO THE CCTV EQUIPMENT.

INDUCTIVE LOOP DETECTORS
SIGN ILLUMINATION
AND RELOCATE CCTV SYSTEM

SCALE: 1" = 50'

E-11

EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

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

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: LUIS PENALOZA JR
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY
DATE REVISED

LAST REVISION 03-10-10
DATE PLOTTED => 26-MAR-2010
TIME PLOTTED => 13:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	64	75

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

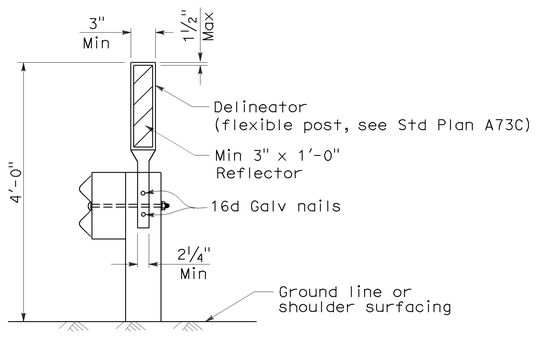
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated March 10, 2010

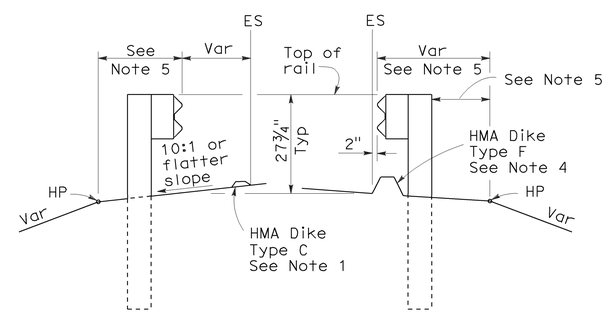
NOTES:

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



GUARD RAILING DELINEATION

See Note 3



DIKE POSITIONING

See Note 1

2006 REVISED STANDARD PLAN RSP A77C4

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL RAILING DELINEATION AND DIKE POSITIONING DETAILS

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

12-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	65	75

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Randell D. Hiatt No. C50200 Exp. 6-30-09 CIVIL STATE OF CALIFORNIA

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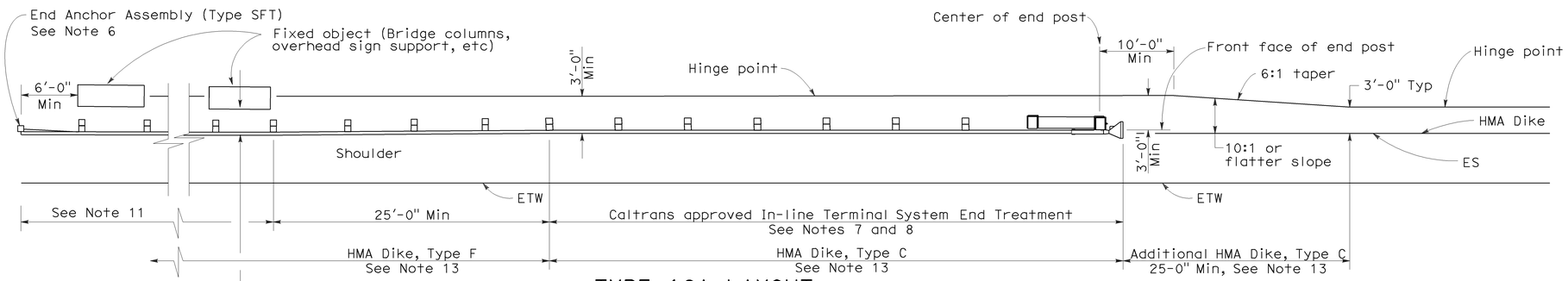
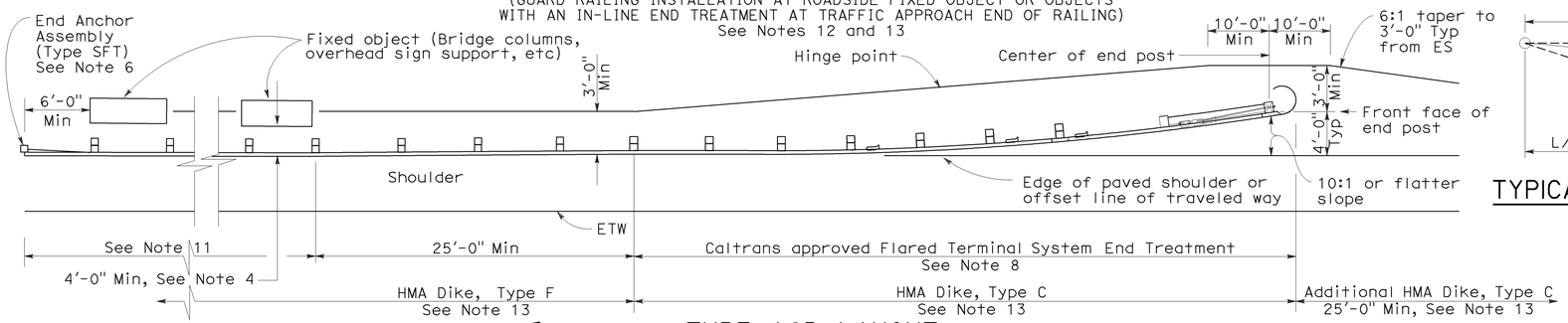
To accompany plans dated March 10, 2010



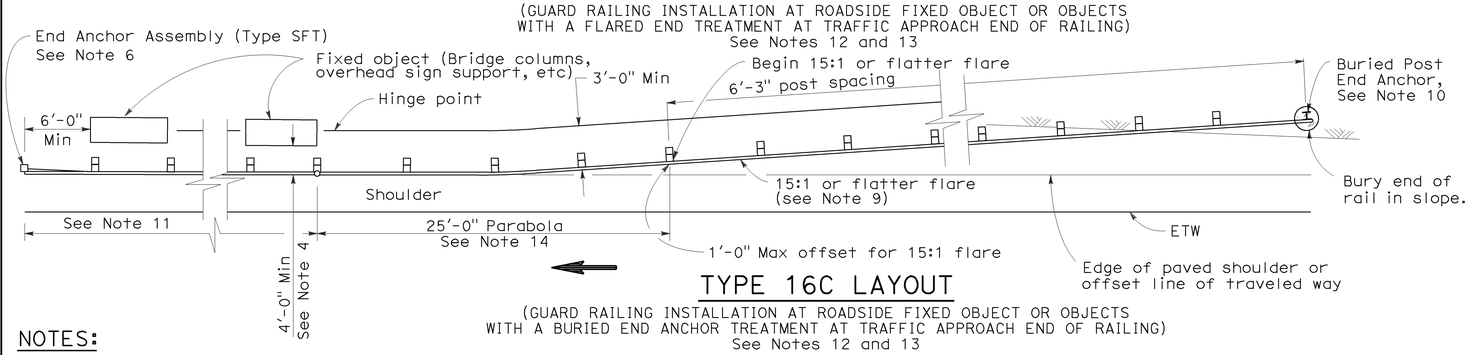
TYPE 16A LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13



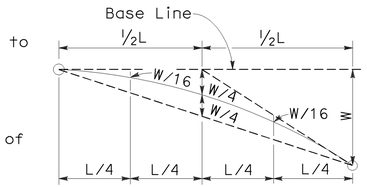
TYPE 16B LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13

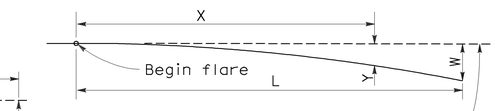


TYPE 16C LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A BURIED END ANCHOR TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13



TYPICAL PARABOLIC LAYOUT

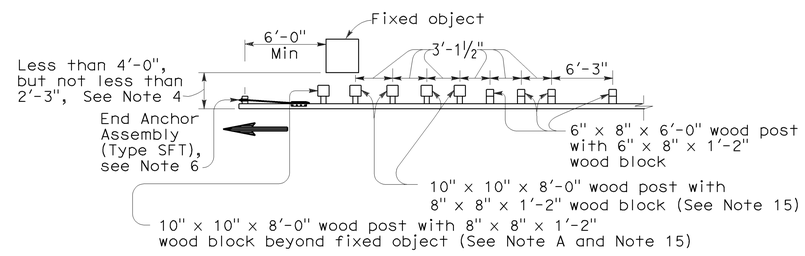


Base Line (Edge of paved shoulder or offset line of edge of traveled way)

$$Y = \frac{WX^2}{L^2}$$

Y = Offset from base line
W = Maximum offset
X = Distance along base line
L = Length of flare

PARABOLIC FLARE OFFSETS



NOTE A: For a series of fixed objects (bridge columns, overhead sign supports, etc.) additional 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood blocks at 3'-1½" center to center spacing are to be used between fixed objects.

STRENGTHENED RAILING SECTIONS FOR FIXED OBJECT

Use strengthened railing sections with Types 16A, 16B or 16C Layouts where minimum clearance between the face of the guard railing and fixed object(s) is less than 4'-0", but not less than 2'-3". See Note 4

NOTES:

1. Line post, blocks and hardware to be used are shown on Revised Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
2. Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
3. Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood line posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
4. A 4'-0" minimum clearance is required between the face of the railing and the face of a fixed object located directly behind standard guard railing sections with post spacing of 6'-3". Construct guard railing as shown in the detail "Strengthened Railing Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 4'-0", but not less than 2'-3". Where the clearance is less than 2'-3", a concrete wall or barrier should be constructed to shield the fixed object(s).
5. Direction of adjacent traffic indicated by ➡.
6. For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
7. In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
8. The type of terminal system to be used will be shown on the Project Plans.
9. The 15:1 or flatter flare used with Type 16C Layout is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
10. For details of the Buried Post End Anchor used with Type 16C Layout, see Standard Plan A77I2.
11. As site conditions dictate, construct additional guard railing to shield fixed object(s). Additional guard railing length equal to multiples of 12'-6". Post spacing at 6'-3" except as specified in Note 4.
12. Layout Types 16A, 16B or 16C are typically used where guard railing is recommended to shield roadside fixed object(s) and a crashworthy end treatment is required for only one direction of traffic.
13. Where placement of dike is required with guard railing, see Revised Standard Plan RSP A77C4 for dike positioning details.
14. For typical flare offsets for 25'-0" length parabola with maximum offset of 1'-0", see Revised Standard Plan RSP A77E1.
15. W6 x 15 steel post, 8'-0" in length, with 8" x 8" x 1'-2" notched wood block or notched recycled plastic blocks may be used in place of the 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood block shown in the "Strengthened Railing Sections Detail".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE

RSP A77G3 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77G3 DATED MAY 1, 2006 - PAGE 61 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77G3

2006 REVISED STANDARD PLAN RSP A77G3

12-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	66	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

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To accompany plans dated March 10, 2010

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

1. Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
2. Luminaires shall be the cutoff type, ANSI Type Ⅲ medium cutoff lighting distribution, unless otherwise specified.
3. Variations noted adjacent to symbol on project plans.

Electrolier (see project notes or project plans)

Luminaire on wood pole

STANDARD NOTES:

- 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 wire or rope.
- 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.
- SF — Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP — Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED	EXISTING	
BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A MAS-4B MAS-4C	mas-4A mas-4B mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A MAS-5B	mas-5A mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type Ⅰ, Ⅱ, Ⅲ, Ⅳ or Ⅴ as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	67	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

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To accompany plans dated March 10, 2010

CONDUIT

PROPOSED	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 (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

PROPOSED	EXISTING	
OH	oh	Overhead lines
U	U	Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
III		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
T	t	Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION

Type of installation

TYPE H SERVICE - 28'-10" ← Pole height above grade

ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
PV	PV	Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
R	Y	Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. Signal indication shall be LED.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

2006 REVISED STANDARD PLAN RSP ES-1B

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	68	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

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To accompany plans dated March 10, 2010

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

- 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	Project note numbers
A B C	Equipment description, installation or item numbers
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 or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	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

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)

- External conductor
- Conductor or bus
- Tie point
- Contactor coil
- Contactor, Contact NO
- Terminal blocks
- Contactor, Contact NC
- Enclosure bond
- Grounding electrode
- Circuit breaker
- Receptacle

PULL BOXES

PROPOSED 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

PROPOSED	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 (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	69	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated March 10, 2010

2006 REVISED STANDARD PLAN RSP ES-2C

NOTES-TYPE III SERVICE EQUIPMENT ENCLOSURES:

1. Service equipment enclosure and metering equipment shall meet the requirements of the service utility. The meter area shall have a sealable, lockable, weathertight cover that can be removed without the use of tools.

2. Service equipment enclosures shall be factory wired and conform to NEMA standards.

3. Dimensions of service equipment enclosures shall meet the requirements of the service utility.

4. The dead front panels on Type III service equipment enclosures shall have a continuous stainless steel or aluminum piano hinge. The panel in front of the breakers shall be secured with a latch or captive screws. No live parts shall be mounted on the dead front panel.

5. The exterior door shall have provisions for padlocking. The padlock hole shall be a minimum diameter of 7/16".

6. Enclosures housing transformers of more than one kVA shall have effective screened ventilation louver of not less than 50 square inches. Screen shall be stainless steel No. 304, with a No. 10 size mesh. Framed screen shall be secured with at least four bolts.

7. Fasteners on the exterior of the enclosure shall be vandal-resistant and shall not be removable from the exterior. Exterior screws, nuts, bolts and washers shall be stainless steel.

8. Landing lugs for incoming service conductors shall be compatible with either copper or aluminum conductors sized to suit the conductors shown on the plan. Landing lugs shall be copper or tin-plated aluminum. Neutral bus shall be rated for 125 A and be suitable for copper or aluminum conductors unless otherwise specified. The terminal shall include but not be limited to:

   a) Incoming terminals (landing lugs)
   b) Neutral lugs
   c) Solid neutral terminal strip

9. At least 6 standard single pole circuit breaker spaces, 3/4" nominal, shall be provided for branch circuits. Circuit breaker interiors shall be copper. Interiors of enclosure shall accept plug-in or cable-in/cable-out circuit breakers.

10. Control wiring shall be 600 V, 14 stranded machine tool wire. Where subject to flexing, 19 strand wire shall be used.

11. Main bus shall be rated for 125 A and shall be tin-plated copper.

12. A plastic laminated wiring diagram shall be provided with brass mounting eyelets and attached to the inside of the enclosure and the wiring diagram shall be affixed to the interior with a UL or ETL approved method.

13. An engraved phenolic nameplate on the dead front panel indicating the function of each circuit or device shall be installed with stainless steel rivets or stainless steel screws:

    a) Adjacent to the breaker or device with character size a minimum of 1/8".

    b) At the top of the exterior door panel indicating State system number, voltage level and number of phases with character size a minimum of 3/16".

14. The plan shows the approximate location of devices within the enclosure. Components may be rearranged, however, the "working" clearances within the service equipment enclosure shall be maintained.

15. In unpaved areas a raised portland cement concrete pad 2'-0" x 4" x width of foundation shall be constructed in front of new service equipment enclosure installation. Pad shall be set to elevation of foundation.

16. Foundation shall extend 2" minimum beyond edge of service equipment enclosure.

17. Internal bus, where shown, is typical only. Alternative design of proposed service equipment enclosure shall be submitted to the Engineer for approval.

18. Plug-in circuit breakers may be mounted in the vertical or horizontal position. Cable-in/cable-out circuit breakers shall be mounted in the vertical position.

19. Type III-AF and Type III-BF service equipment enclosures shall have the meter viewing windows located on the front side of the service equipment enclosures.

20. Type III-AR and Type III-BR service equipment enclosures shall be similarly constructed as Type III-AF and Type III-BF respectively, except the meter viewing windows shall be located on the back side of the service equipment enclosures.

21. Minimum clearance shall be required for front and back of service equipment enclosure per National Electrical Code, Article 110.26, "Spaces About Electric Equipment (600 Volts, Nominal, or Less)."

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SERVICE EQUIPMENT NOTES TYPE III SERIES)

NO SCALE

RSP ES-2C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2C
DATED MAY 1, 2006 - PAGE 405 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-2C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	70	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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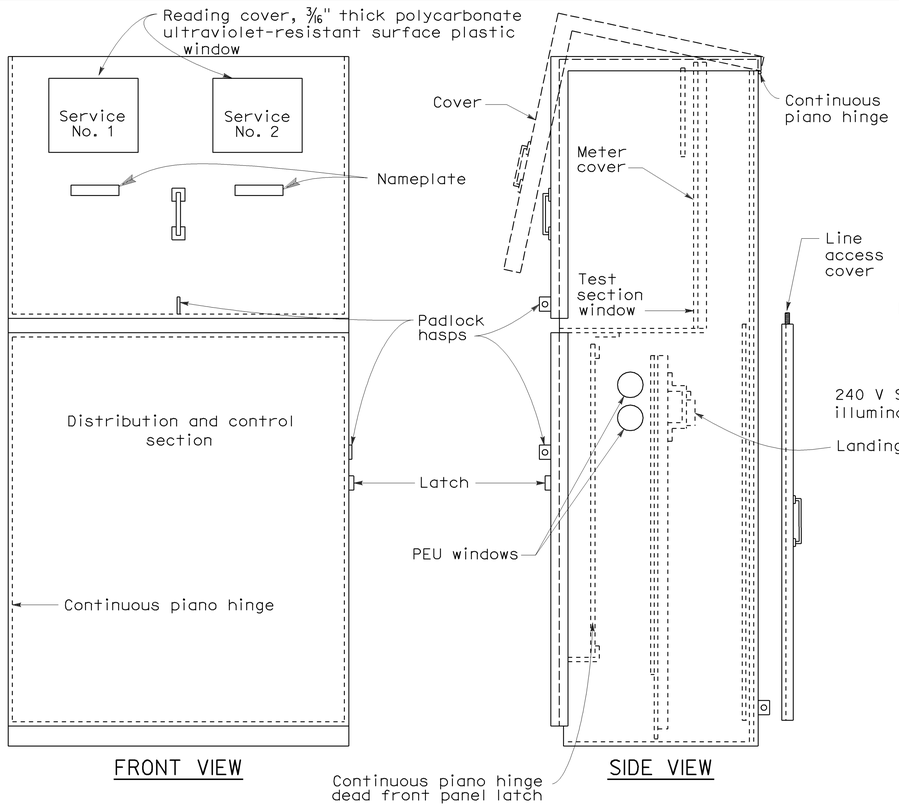
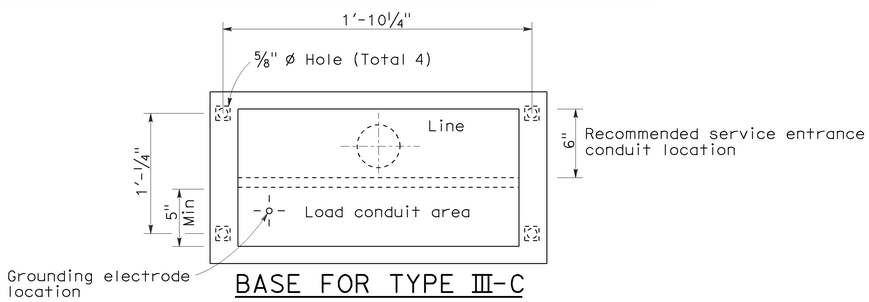
REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

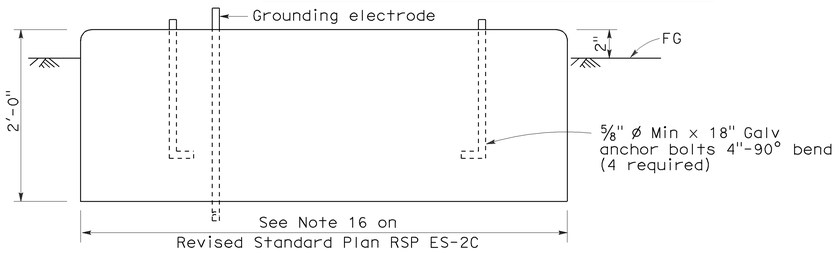
To accompany plans dated March 10, 2010



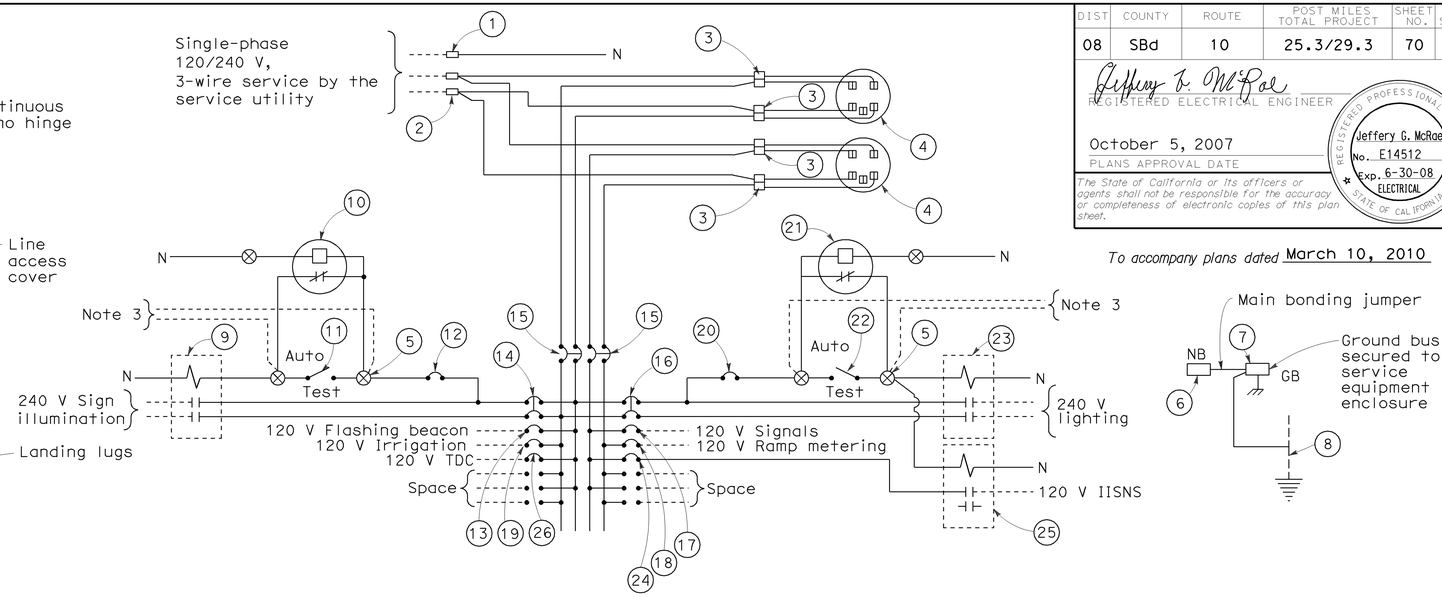
TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH PROVISIONS FOR TWO 100 A METERS (TYPICAL)



BASE FOR TYPE III-C SERVICE EQUIPMENT ENCLOSURE



FOUNDATION DETAIL



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

TYPE III-C SERVICE (120/240 V) EQUIPMENT LEGEND

ITEM No.	COMPONENT	NAME PLATE DESCRIPTION	ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	Neutral lug		14	30 A, 240 V, 2P, CB	Sign Illumination
2	Landing lug (Note 6)		15	100 A, 240 V, 2P, CB	Main Breaker
3	Test bypass facility		16	30 A, 240 V, 2P, CB	Lighting
4	Meter socket and support		17	50 A, 120 V, 1P, CB	Signals
5	Terminal blocks		18	30 A, 120 V, 1P, CB	Ramp Metering
6	Neutral bus		19	20 A, 120 V, 1P, CB	Irrigation
7	Ground bus		20	15 A, 120 V, 1P, CB	Lighting Control
8	Grounding electrode		21	Photoelectric unit (Note 7)	
9	30 A, 2PNO, Contactor	Sign Illumination	22	15 A, 1P, Test switch	Lighting Control
10	Photoelectric unit (Note 7)		23	60 A, 2PNO Contactor	Lighting
11	15 A, 1P, Test switch	Sign Illumination Test Switch	24	15 A, 120 V, 1P, CB	IISNS
12	15 A, 120 V, 1P, CB	Sign Illumination Control	25	30 A, 2PNO Contactor	IISNS
13	15 A, 120 V, 1P, CB	Flashing Beacon	26	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

1. Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
2. Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
3. Connect to remote test switch mounted on lighting standards, sign post or structure when required.
4. Items No. 1 and 6 shall be isolated from the service equipment enclosure.
5. Meter sockets shall be 5 clip type.
6. The landing lug shall be suitable for multiple conductors.
7. Type V photoelectric control shall be used unless otherwise indicated on the plans.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM TYPE III-C SERIES)

NO SCALE

RSP ES-2F DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2F DATED MAY 1, 2006 - PAGE 408 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-2F

2006 REVISED STANDARD PLAN RSP ES-2F

8-17-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	71	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

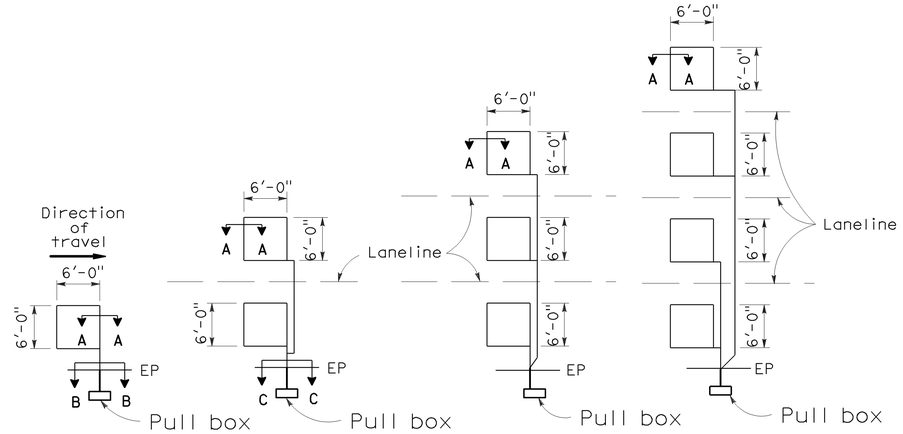
REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated March 10, 2010

LOOP INSTALLATION PROCEDURE

1. Loops shall be centered in lanes.
2. Saw slots in pavement for loop conductors as shown in details.
3. Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
4. Bottom of saw slot shall be smooth with no sharp edges.
5. Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
6. Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
7. Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
8. Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
9. No more than 2 twisted pairs shall be installed in one sawed slot.
10. Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
11. The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
12. Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
13. Fill slots as shown in details.
14. Splice loop conductors to lead-in-cable. Splices shall be soldered.
15. End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
16. Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
17. Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
18. Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.

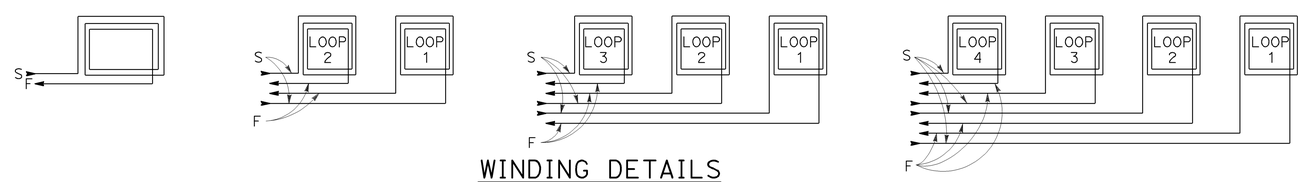


TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

SAWCUT DETAILS

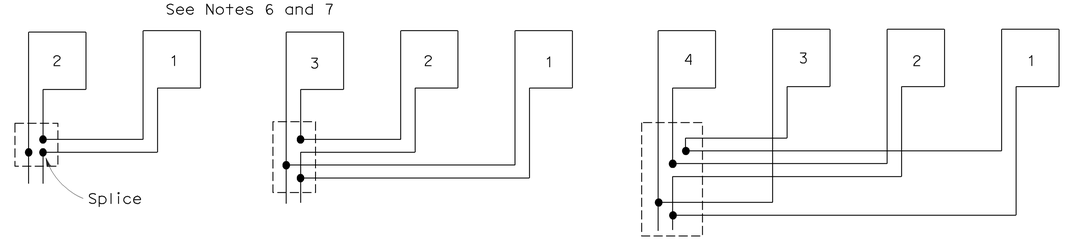
(Type A loop detector configurations illustrated)

1. 1A thru 4A = 1 Type A loop configuration in each lane.
2. 1B thru 4B = 1 Type B loop configuration in each lane.
3. 1C = 1 Type C loop configuration entering lanes as required.
4. 1D thru 4D = 1 Type D loop configuration in each lane.
5. 1E thru 4E = 1 Type E loop configuration in each lane.
6. 1Q thru 4Q = 1 Type Q loop configuration in each lane. (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



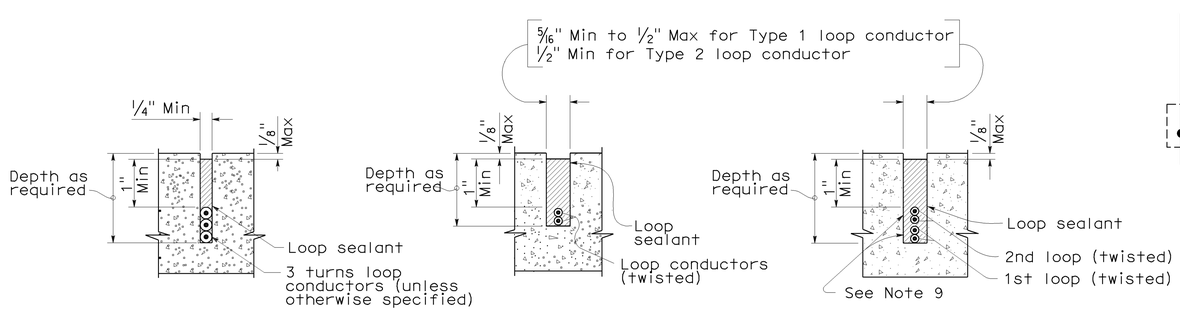
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A | SECTION B-B | SECTION C-C

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

8-17-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	72	75

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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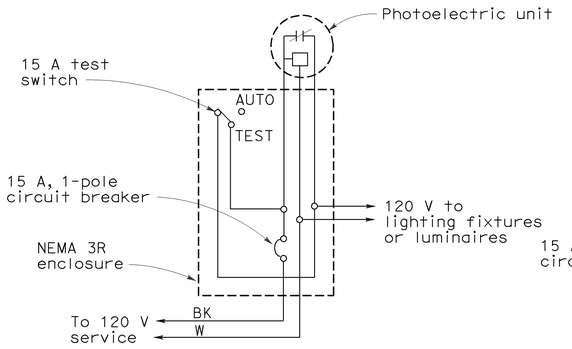
To accompany plans dated March 10, 2010

2006 REVISED STANDARD PLAN RSP ES-15D

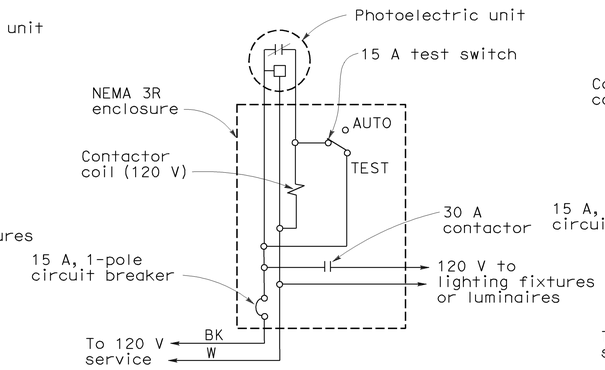
NOTES: (FOR LIGHTING AND SIGN ILLUMINATION CONTROL)

1. The ballast voltages of lighting fixtures and luminaires shall match line service voltages.
2. Voltage rating of photoelectric controls shall conform to the service voltage indicated on the plans.
3. Terminal strip shall be provided for wiring to fixtures.
4. Type SC1A, SC2A, SC3A controls are similar to Types SC1, SC2 and SC3 controls respectively except test switch and wiring are not required.



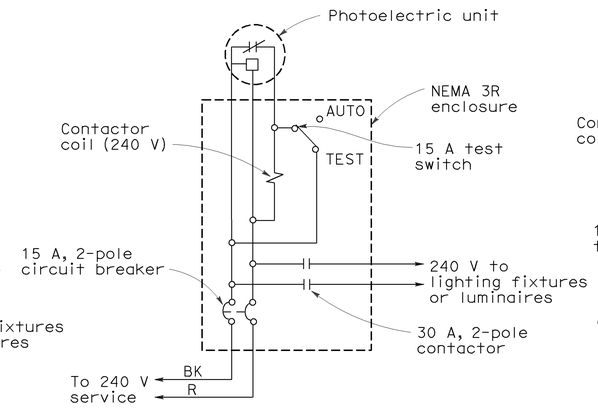
TYPE LC1 CONTROL

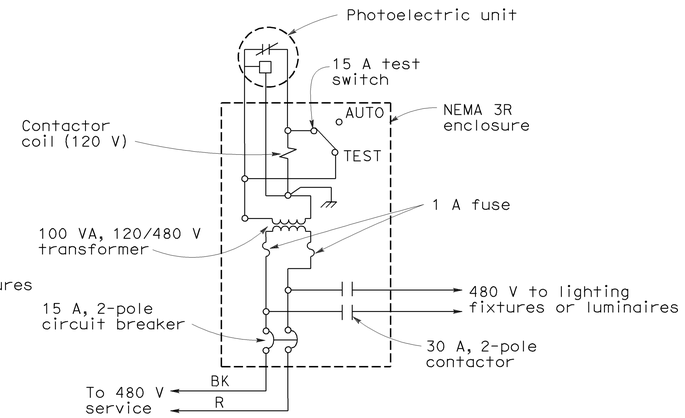
For 120 V unswitched circuit with no more than 800 W load.



TYPE LC2 CONTROL

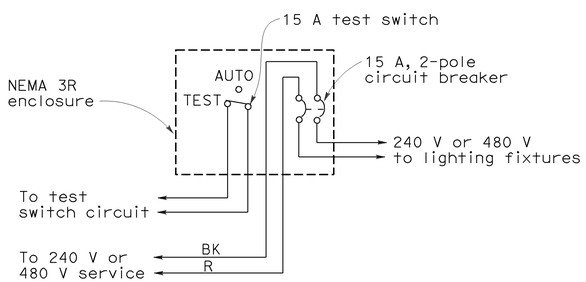
For 120 V unswitched circuit





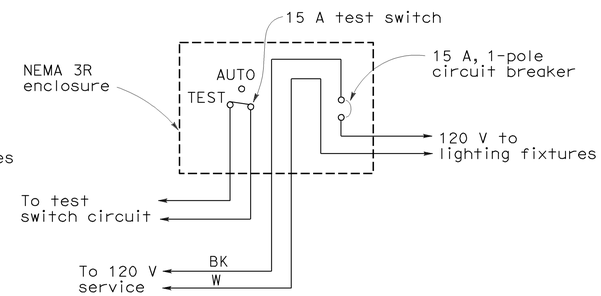
TYPE LC3 CONTROL

For 240 V and 480 V unswitched circuits



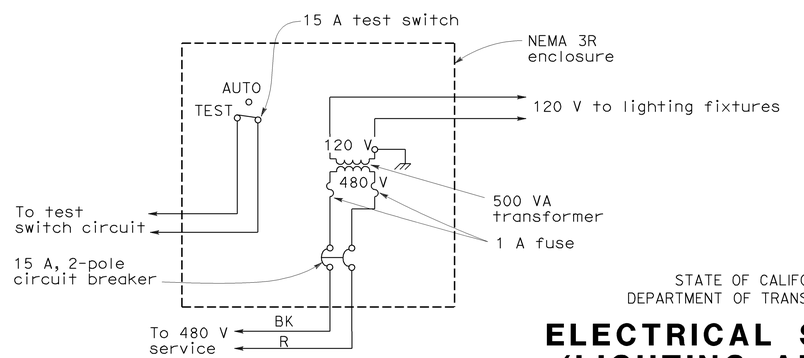
TYPE SC1 CONTROL

For 240 V or 480 V switched circuit, see Note 4 for Type SC1A



TYPE SC2 CONTROL

For 120 V switched circuit, see Note 4 for Type SC2A



TYPE SC3 CONTROL

For 480 V switched sign circuit, see Note 4 for Type SC3A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LIGHTING AND SIGN ILLUMINATION CONTROL)

NO SCALE

RSP ES-15D DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-15D
DATED MAY 1, 2006 - PAGE 472 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-15D

9-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	73	75

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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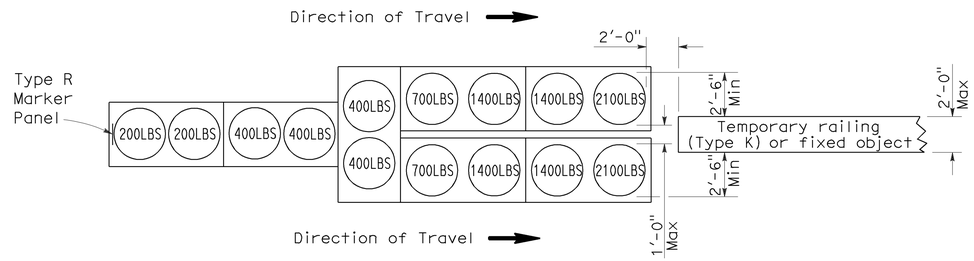
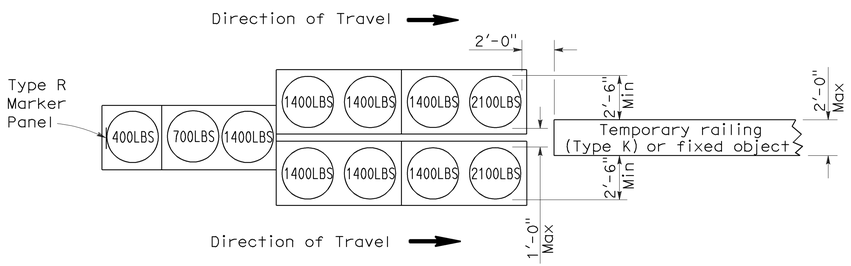
To accompany plans dated March 10, 2010



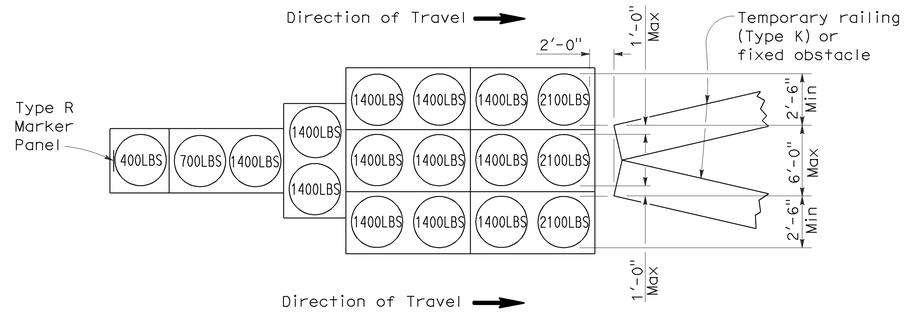
ARRAY 'TU14'

Approach speed 45 mph or more



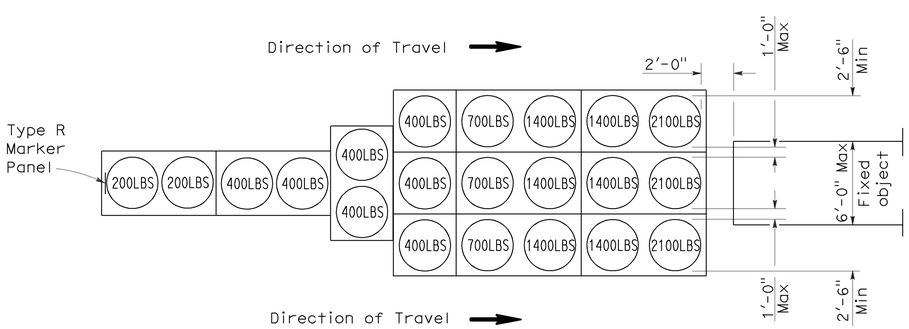
ARRAY 'TU11'

Approach speed less than 45 mph



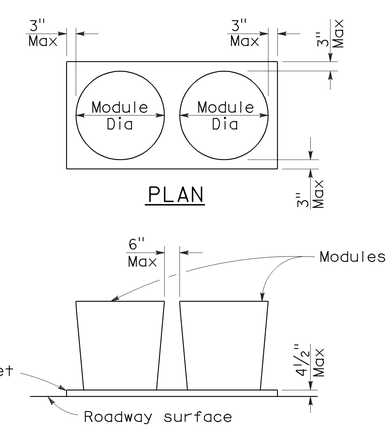
ARRAY 'TU17'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	74	75

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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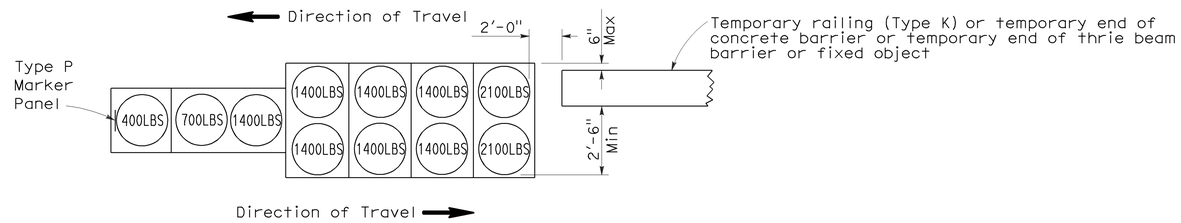
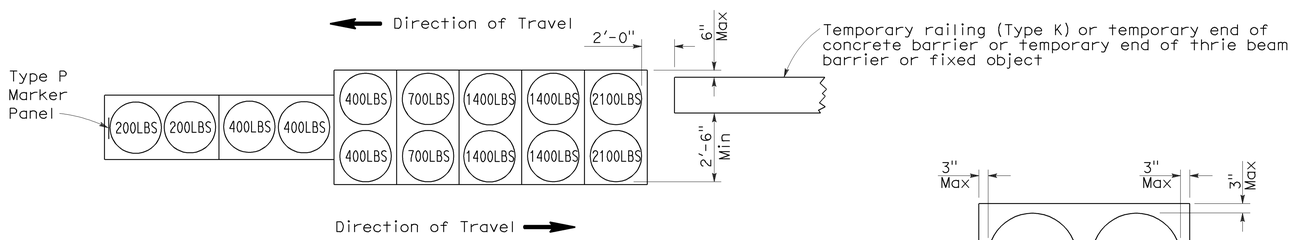
To accompany plans dated March 10, 2010



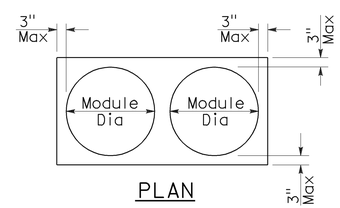
ARRAY 'TB11'

Approach speed less than 45 mph

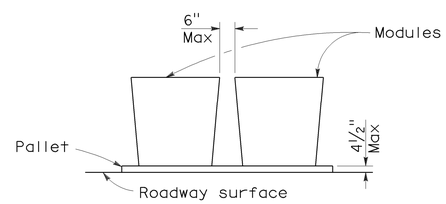


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	25.3/29.3	75	75

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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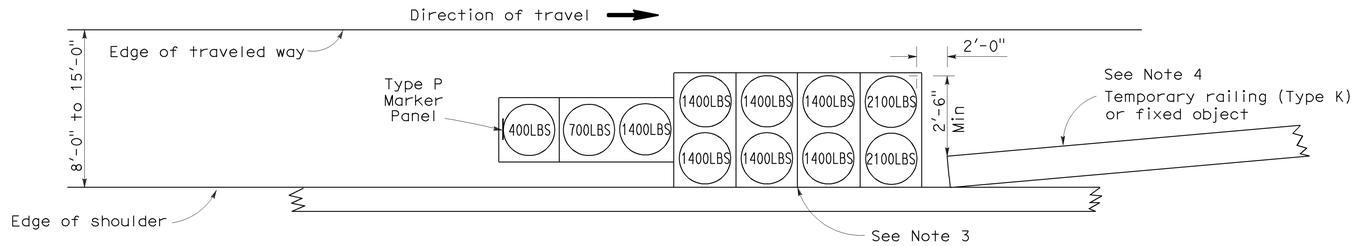
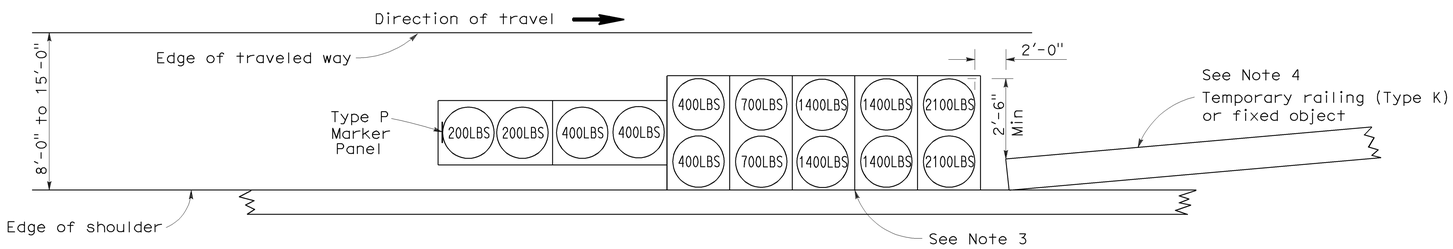
To accompany plans dated March 10, 2010



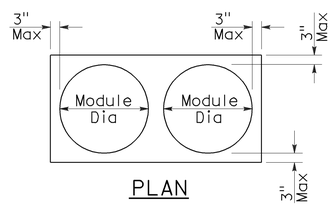
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

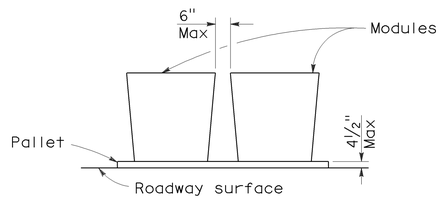


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08