INDEX OF PLANS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0	1	

STATE OF CALIFORNIA

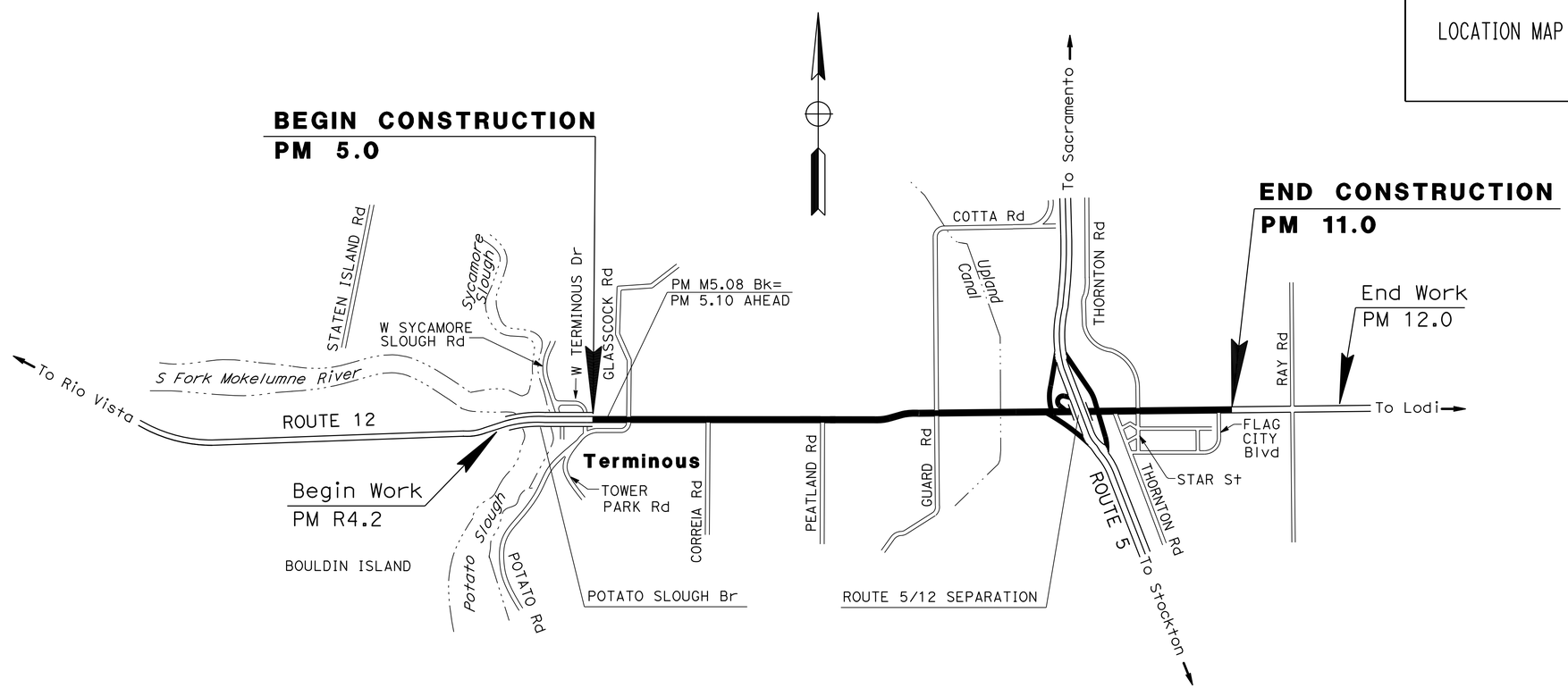
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN JOAQUIN COUNTY
NEAR TERMINOUS
FROM POTATO SLOUGH BRIDGE
TO 0.2 MILE EAST OF FLAG CITY BOULEVARD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
Sheikh Alam
No. 72145
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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

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

PROJECT MANAGER	IORZUA AKUVA
DESIGN ENGINEER	NOMER GUTIERREZ

CONTRACT No.	10-0W5604
PROJECT ID	1012000010

LAST REVISION 00-00-00
DATE PLOTTED => 09-SEP-2014
TIME PLOTTED => 14:30

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTUES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXACT LOCATION AND TYPES OF DIKE, COLD PLANE, RUMBLE STRIPS AND MIDWEST GUARDRAIL SYSTEM ARE SHOWN ON THE SUMMARY OF QUANTITIES SHEETS.

ABBREVIATIONS:

RS - RUMBLE STRIP
RHMA-G - RHMA (GAP GRADED)

DESIGN DESIGNATION

ADT (2014)	= 16,600	D	= 62%
ADT (2035)	= 22,400	T	= 14%
DHV (2035)	= 2,250	V	= 55 mph
ESAL	= 13,724,104	TI_{20}	= 12.5

DESIGN DESIGNATION

INLAND VALLEY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp. 6/30/14 CIVIL STATE OF CALIFORNIA

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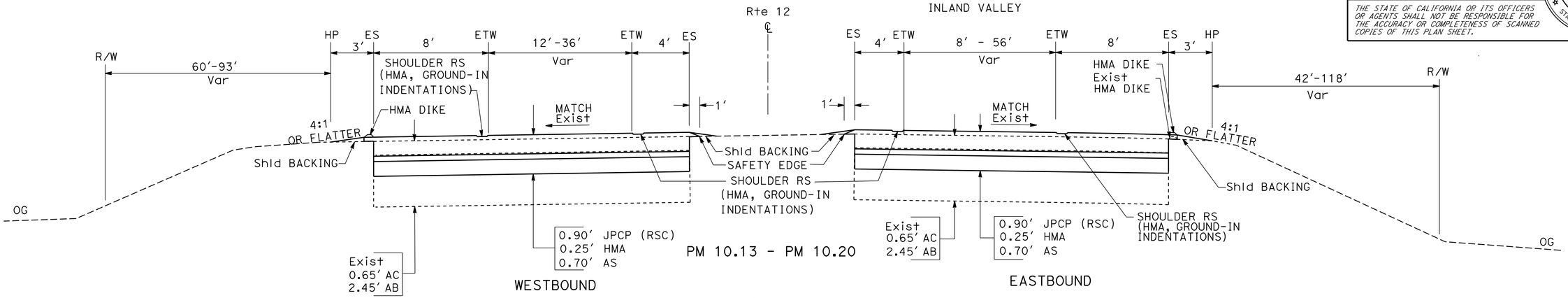

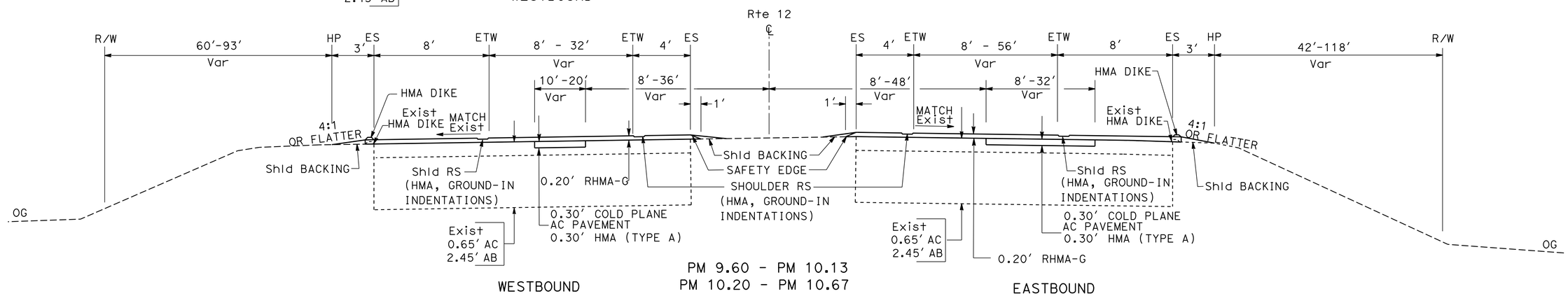

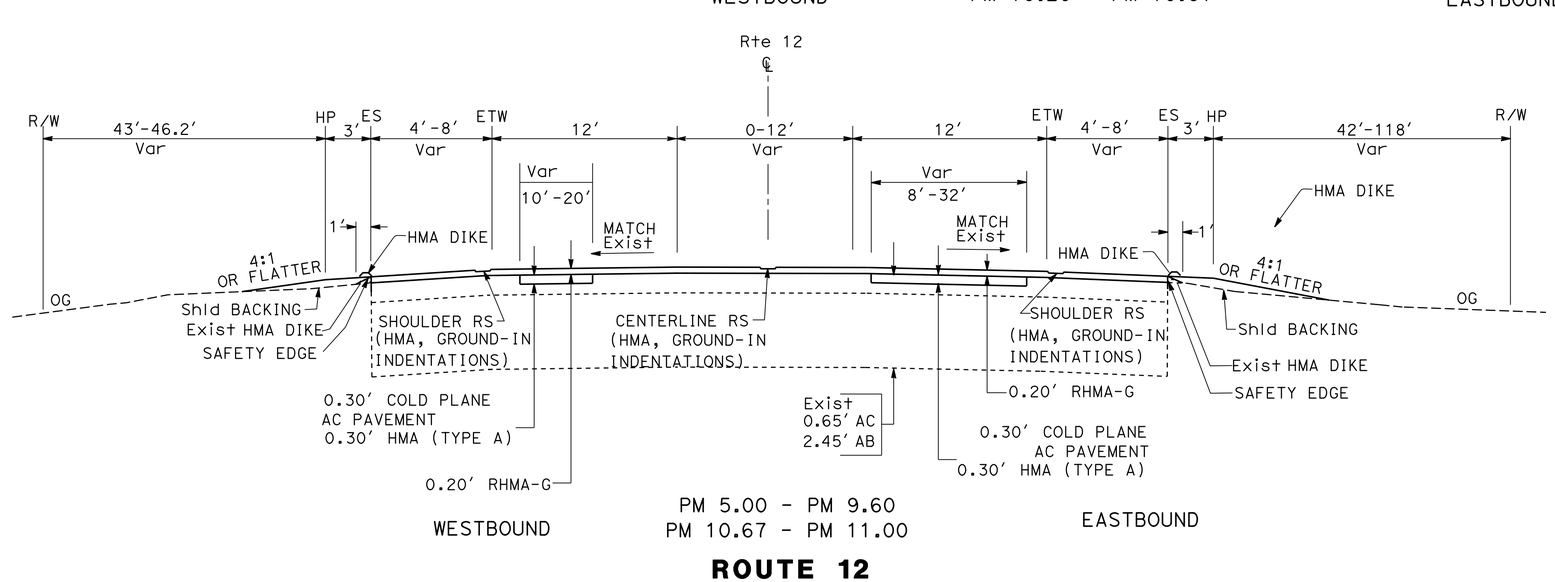

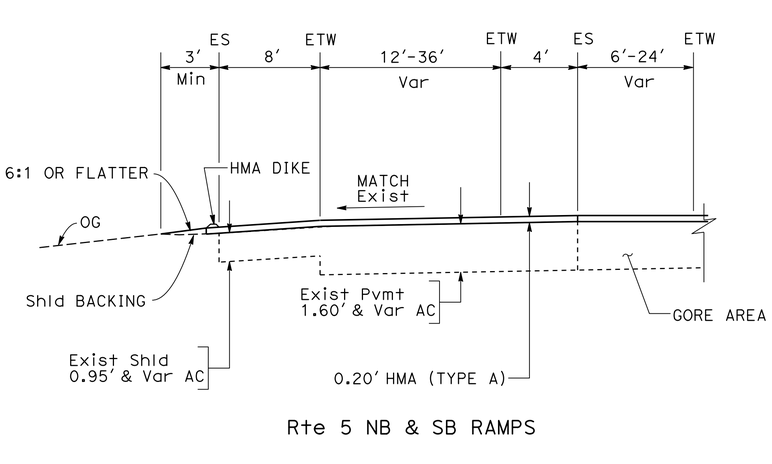

ROUTE 12

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY	DATE REVISED
SA	06/05/14

CALCULATED-DESIGNED BY	CHECKED BY
YOON HAHN	SHEIKH ALAM

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

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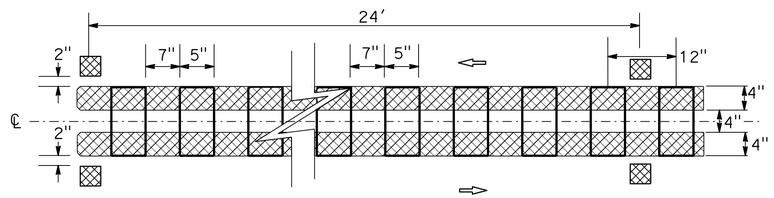
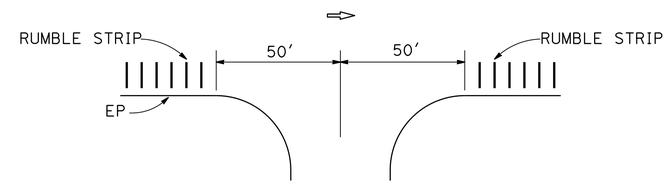
LEGEND

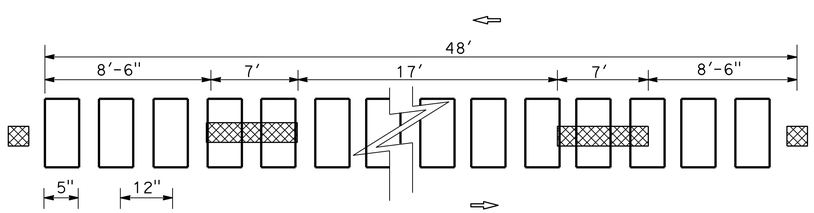
- TYPE D TWO-WAY YELLOW REFLECTIVE MARKERS
- 4" YELLOW STRIPING
- 4" WHITE STRIPING
- RUMBLE STRIPS
- 0.90' JPCP
- COLD PLANE AC Pvmt 0.20' RHMA-G
- CONCRETE
- 0.2' RHMA OVERLAY



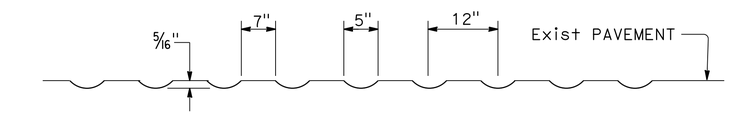
CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
NO PASSING ZONE - DETAIL 22



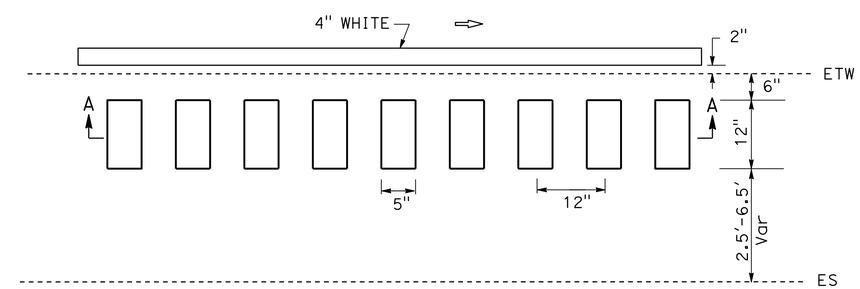
RUMBLE STRIP GAP
AT PUBLIC ROAD & DRIVEWAY



CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
PASSING ZONE - DETAIL 2



SECTION A-A



PLAN

SHOULDER RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	SA
DATE REVISED	08-11-14
YOON HAHN	SHEIKH ALAM
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **DESIGN**

LAST REVISION 00-00-00 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

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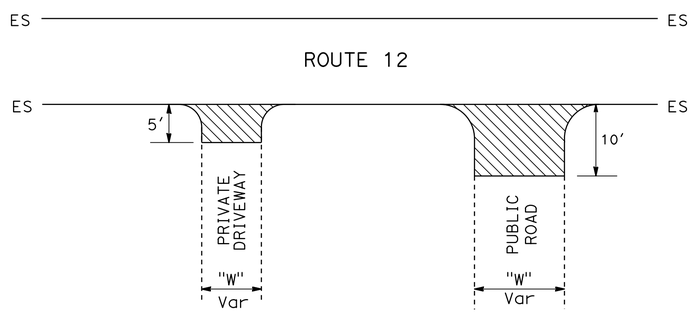
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp 6/30/14 CIVIL STATE OF CALIFORNIA

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

NOTE:
1. USE 15′-7½" LENGTH RAIL
2. PM LOCATIONS OF DRIVEWAYS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



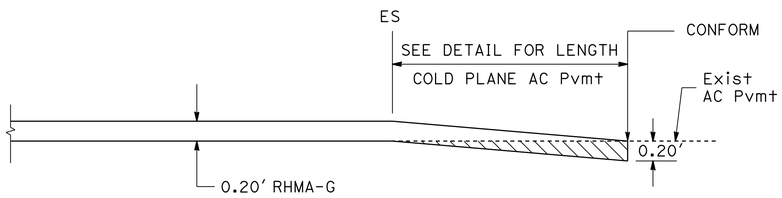
PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS

PRIVATE DRIVEWAYS

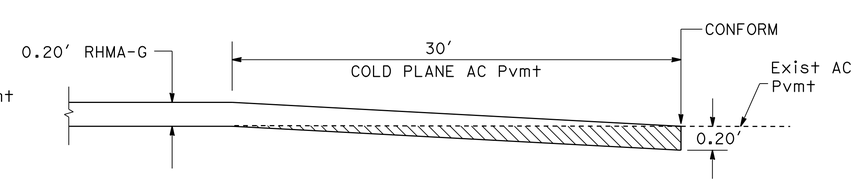
PM	SIDE	W
6.53	Rt	15′
6.54	Rt	23′
7.26	Rt	20′
7.40	Rt	18′
7.53	Rt	16′
7.71	Rt	15′
7.88	Rt	15′
8.11	Rt	20′
8.66	Rt	24′
6.33	Lt	15′
6.51	Lt	13′
6.78	Lt	14′
7.51	Lt	17′
7.77	Lt	15′
8.16	Lt	13′
8.35	Lt	19′

PUBLIC ROAD INTERSECTIONS

PM	SIDE	NAME	W
5.37	Lt	GLASSCOCK Rd	120′
5.37	Rt	TOWERPARK Rd	110′
6.04	Rt	CORREIA Rd	240′
7.00	Rt	PEATLAND Rd	180′
8.82	Rt/Lt	GUARD Rd	40′
10.30	Rt/Lt	N. THORNTON Rd	120′
10.45	Rt	STAR St	80′
10.83	Rt	FLAG CITY Blvd	40′

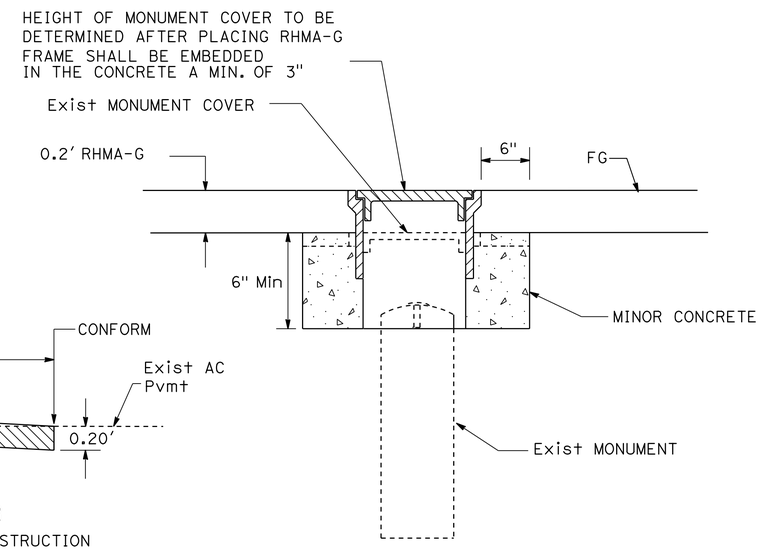


PUBLIC ROAD AND DRIVEWAY CONFORM TAPER

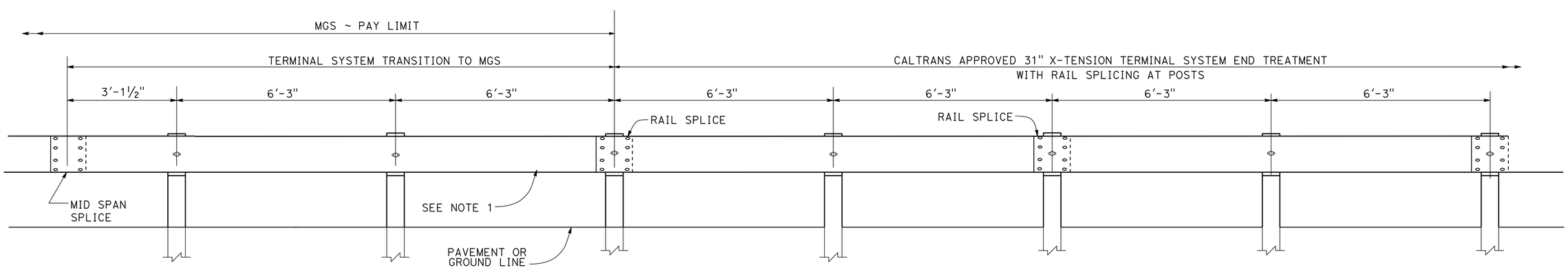


TRANSVERSE CONFORM TAPER

AT PM 5.0, BEGIN CONSTRUCTION & AT PM 11.0, END CONSTRUCTION
AT GORE AREA OF I-5 ON & OFF RAMP



ADJUST MONUMENT COVER



TRANSITION DETAIL FOR 31" X-TENSION TERMINAL SYSTEM END TREATMENT WITH RAIL SPLICING AT POSTS TO MIDWEST GUARDRAIL SYSTEM

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ
CALCULATED-DESIGNED BY: YOON HAHN
CHECKED BY: SHEIKH ALAM
REVISED BY: SA
DATE REVISED: 04/03/14

LAST REVISION 00-00-00
DATE PLOTTED => 09-SEP-2014
TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

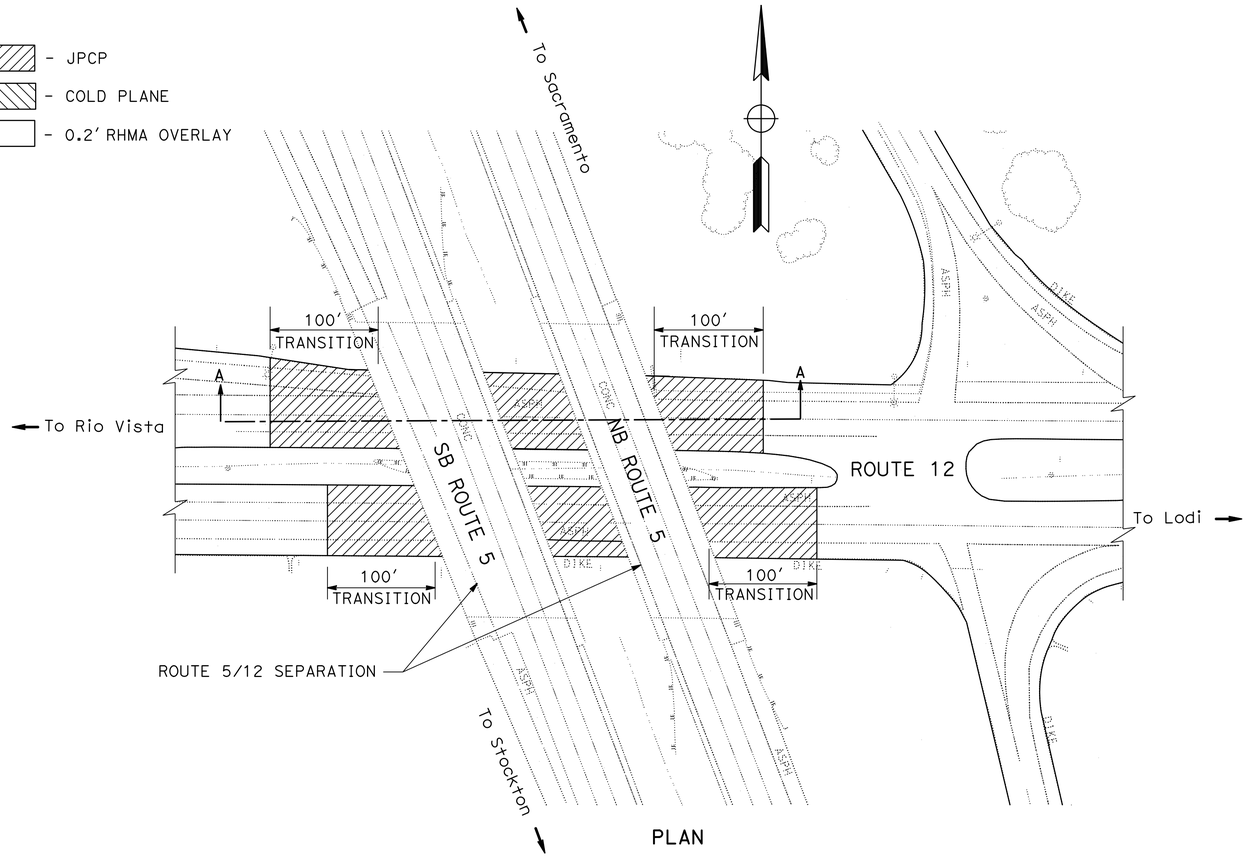
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

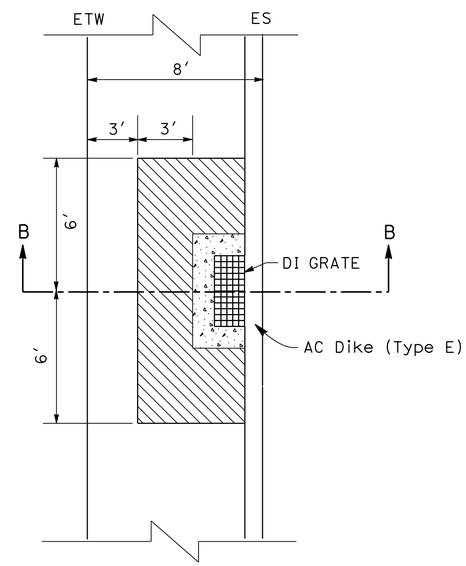
LEGEND

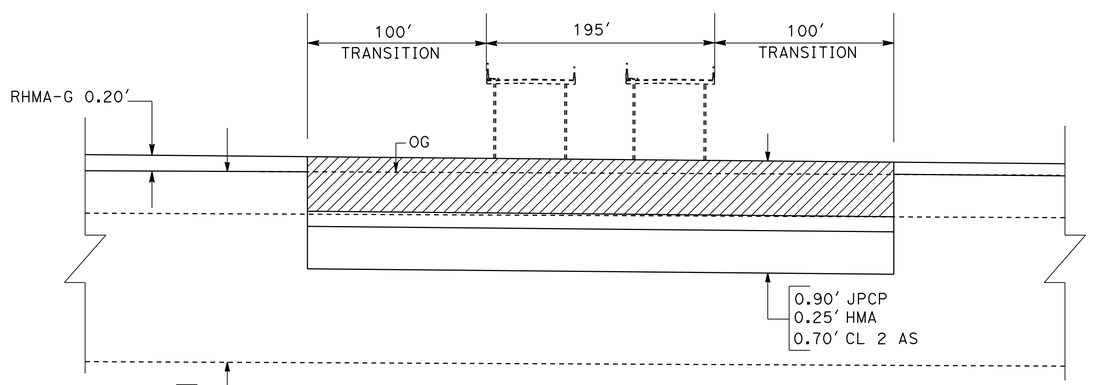
- JPCP
- COLD PLANE
- 0.2′ RHMA OVERLAY



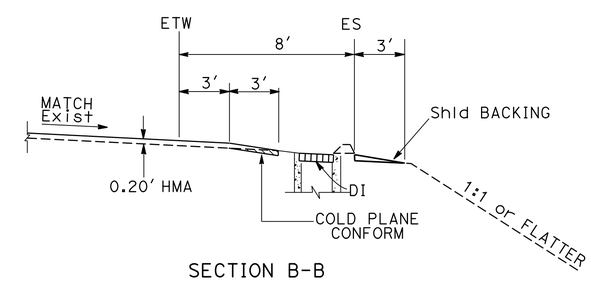
PLAN

LOCATION	DI
SB ON-RAMP	1
SB ON LOOP RAMP	2
SB OFF-RAMP	1
NB ON-RAMP	3
NB OFF-RAMP	2
TOTAL	8





ELEVATION
SECTION A-A



SECTION B-B

ADJUST DI TO GRADE AT Rte-5 ON & OFF-RAMPS

LIMIT OF JOINTED PLAIN CONCRETE PAVEMENT
ROUTE 12 PM 10.13 - PM 10.20

CONSTRUCTION DETAILS
NO SCALE

C-3

REVISED BY	DATE REVISED
SA	08-11-14

CALCULATED-DESIGNED BY: YOON HAHN
CHECKED BY: SHEIKH ALAM
FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 09-SEP-2014
TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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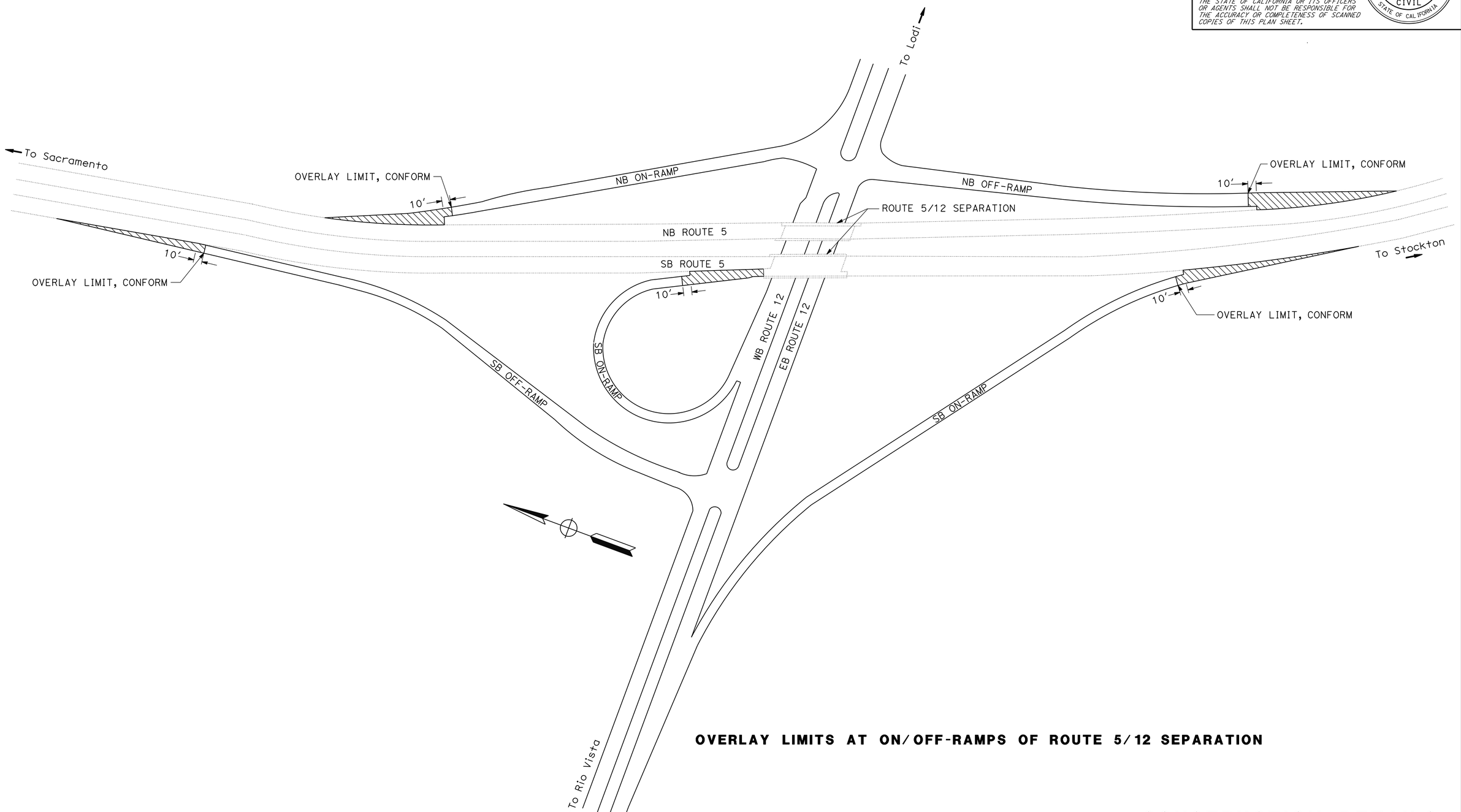

OVERLAY LIMITS AT ON/OFF-RAMPS OF ROUTE 5/12 SEPARATION

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
Caltrans DESIGN	NOMER GUTIERREZ	YOON HAHN / SHEIKH ALAM	SA	08-11-14
		CHECKED BY		

LAST REVISION 00-00-00 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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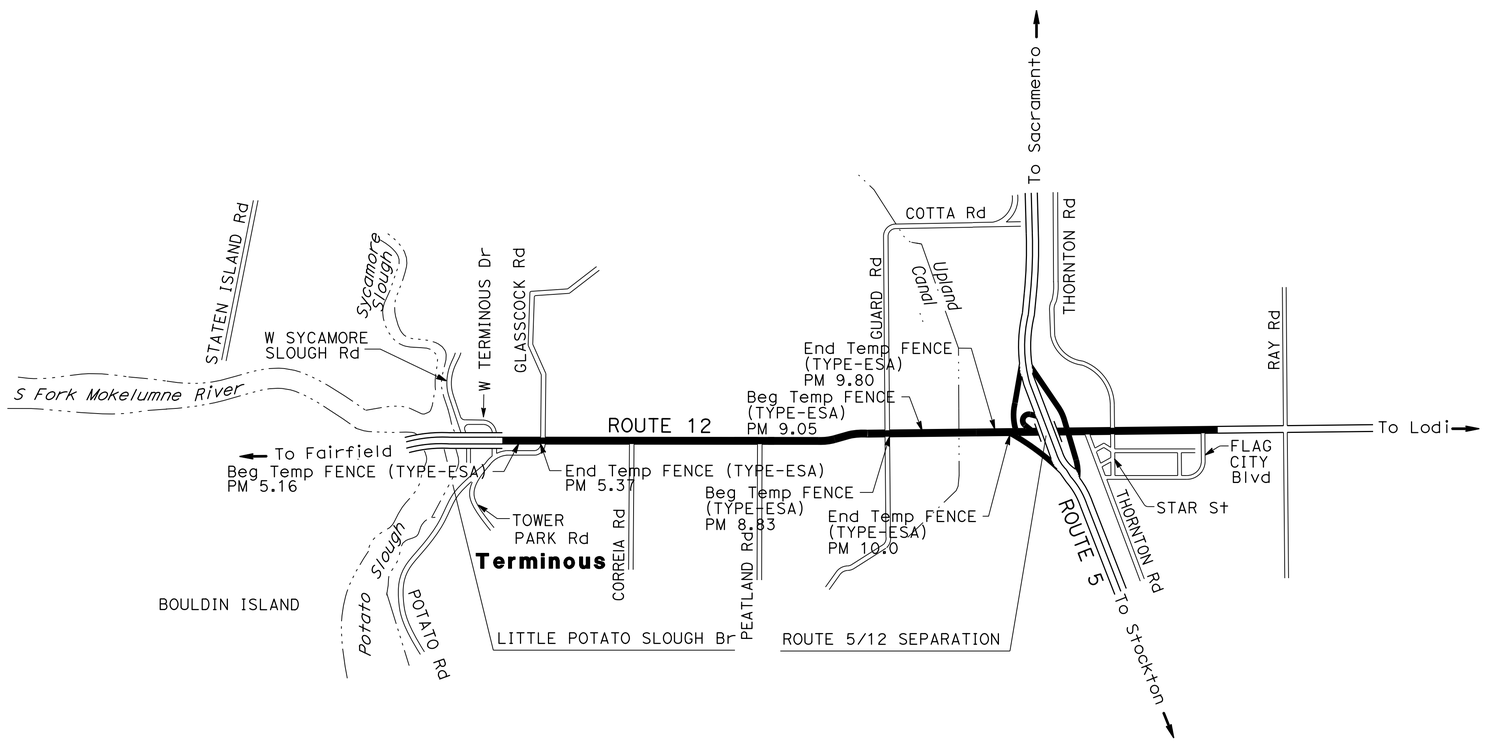
NOTES:

1. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER
2. OFFSET FOR Temp FENCE (TYPE-ESA) FROM EXISTING EDGE OF PAVEMENT IS 2 FEET MIN.



LOCATION OF TEMPORARY FENCE (TYPE - ESA)

CONSTRUCTION DETAILS

NO SCALE

C-5

CALCULATED-DESIGNED BY	YOON HAHN	REVISED BY	SA
CHECKED BY	SHEIKH ALAM	DATE REVISED	08-11-14

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **DESIGN**

LAST REVISION 00-00-00 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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

LEGEND:

(X) SIGN NUMBER

ONE POST

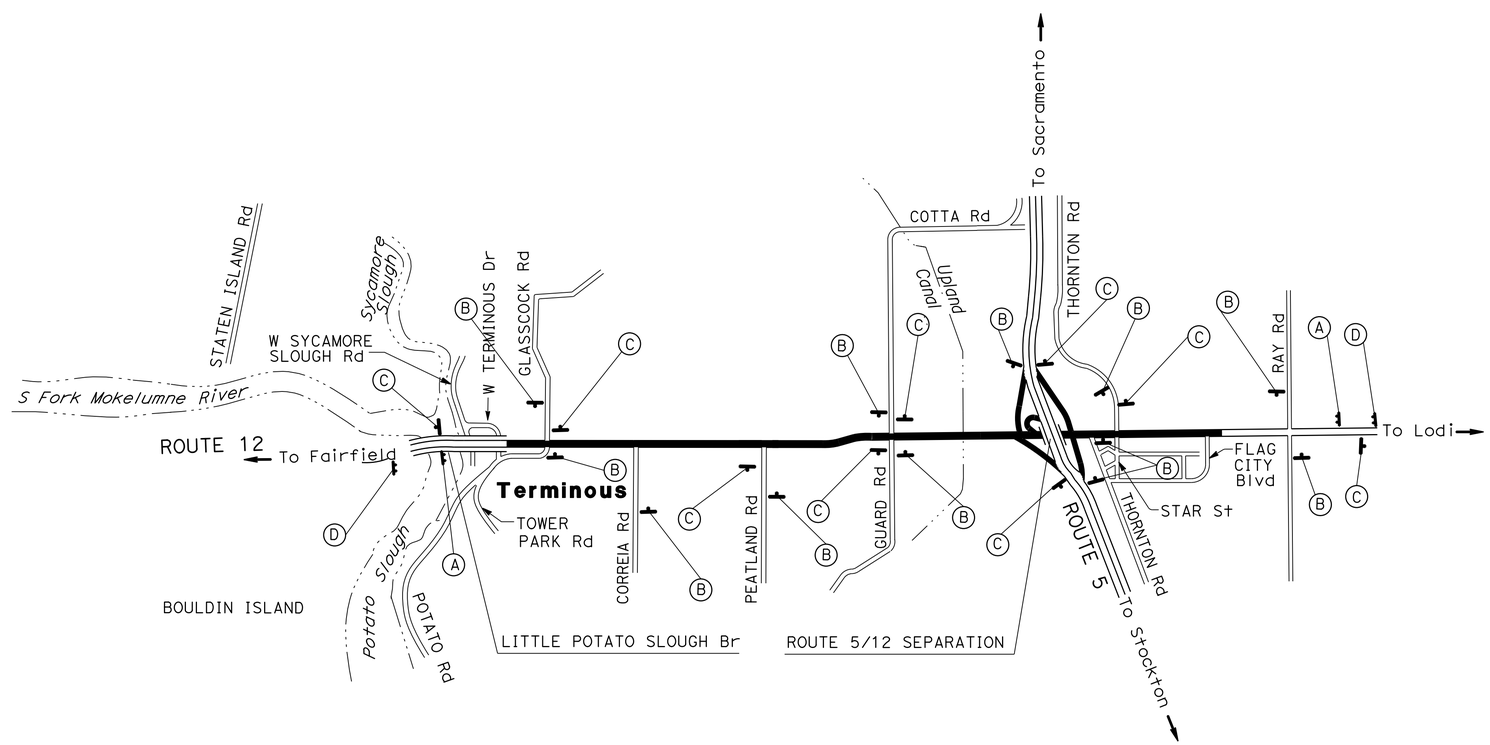
TWO POST

NOTES:

1. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR SIGN "C40" (TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES), ALL LETTERS SHALL BE BLACK ON WHITE BACKGROUND.
3. SEE TRAFFIC HANDLING AND MOTORIST INFORMATION PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	No. OF SIGN	POST SIZE
A	W20-1		60" x 60"	ROAD WORK AHEAD	2	2 - 6" x 6"
B	W20-1		48" x 48"	ROAD WORK AHEAD	11	1 - 6" x 6"
C		G20-2	24" x 18"	END ROAD WORK	9	1 - 4" x 4"
D		C40	102" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2	1 - 6" x 6"



CONSTRUCTION AREA SIGNS

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: FAWZI YAGHMOUR

CHECKED BY: DAVID BLACK

REVISED BY

DATE REVISED

LAST REVISION 08-20-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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LEGEND

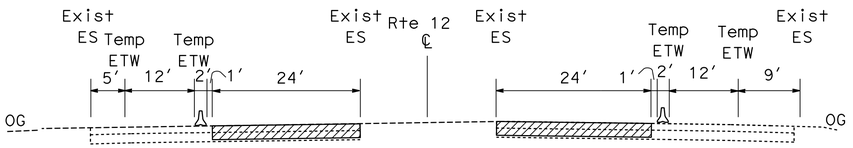
- CONSTRUCTION COMPLETED IN PREVIOUS STAGES
- CONSTRUCT THIS STAGE
- DIRECTION OF TRAFFIC
- TEMPORARY RAILING (TYPE K)
- Temp CRASH CUSHION MODULES

STAGE 1: WORK SEQUENCE

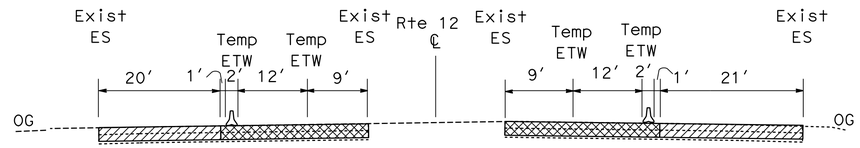
1) INSTALL TEMPORARY RAILING (TYPE K) PER TRAFFIC HANDLING PLANS.
2) CONSTRUCT PAVEMENT STRUCTURE.
3) REMOVE TEMPORARY RAILING (TYPE K).

STAGE 2: WORK SEQUENCE

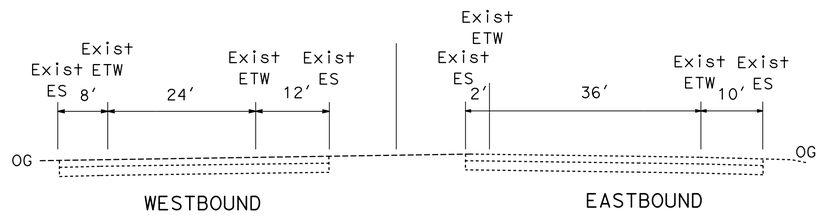
1) INSTALL TEMPORARY RAILING (TYPE K) PER TRAFFIC HANDLING PLANS.
2) CONSTRUCT PAVEMENT STRUCTURE.
3) REMOVE TEMPORARY RAILING (TYPE K).



SECTION A-A



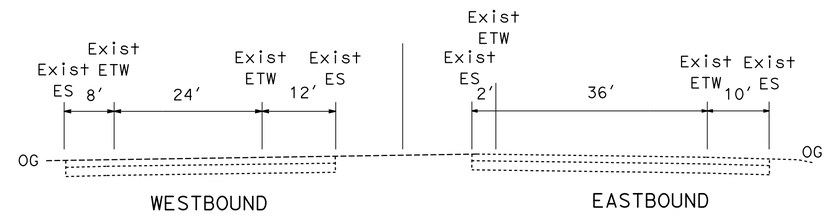
SECTION B-B



PM 10.13 - PM 10.20

STAGE 1

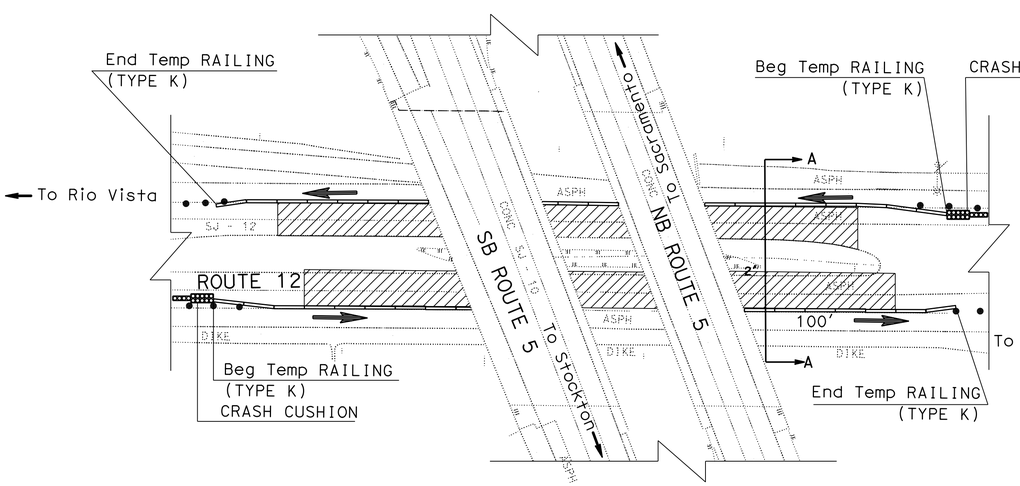
NO SCALE



PM 10.13 - PM 10.20

STAGE 2

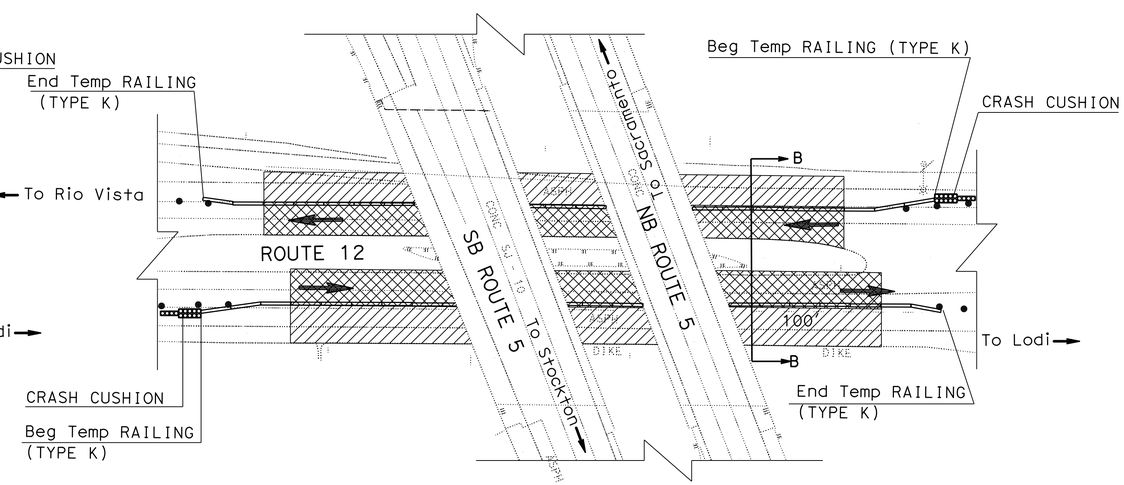
NO SCALE



STAGE 1

PLAN

PM 10.13 - PM 10.20



STAGE 2

PLAN

PM 10.13 - PM 10.20

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

STAGE CONSTRUCTION

SCALE 1"=50′

SC-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

REVISED BY	DATE REVISED
SA	08-11-14

YOON HAHN — SHEIKH ALAM

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

Caltrans

LAST REVISION 00-00-00 — DATE PLOTTED => 09-SEP-2014 — TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

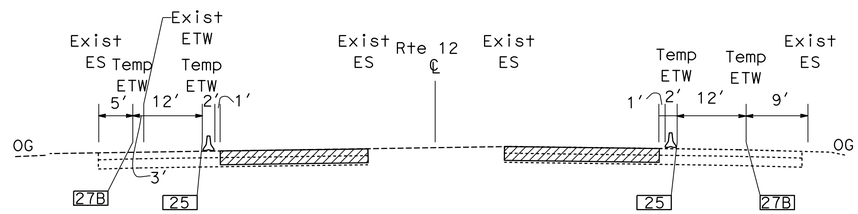
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- CONSTRUCTION COMPLETED IN PREVIOUS STAGES
- CONSTRUCT THIS STAGE
- CHANNELIZER (SURFACE MOUNTED)
- Temp RAILING (TYPE K)
- Temp CRASH CUSHION ARRAY 'TS14'
- CONSTRUCTION AREA SIGN
- OBJECT MARKER (TYPE P)
- REMOVE THERMOPLASTIC TRAFFIC STRIPE
- TEMPORARY TRAFFIC STRIPE

NOTES:

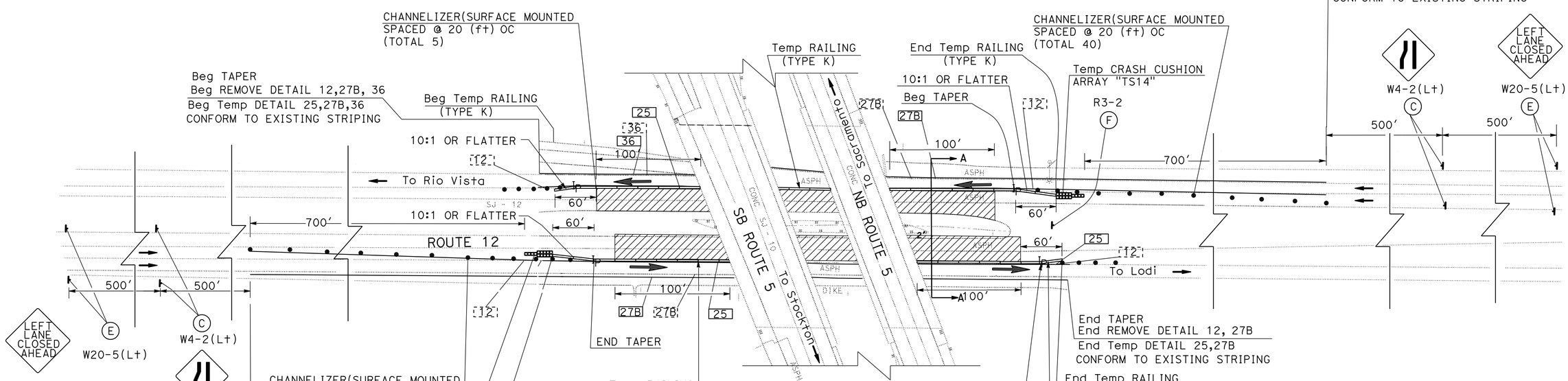
1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. TEMPORARY RAILING (TYPE K) TAPER SHALL BE 1:10 OR FLATTER.
3. FOR ADDITIONAL CONSTRUCTION AREA SIGN SEE SHEET CS-1, MIQ-1AND MIQ-2.



SECTION A-A

STAGE 1

NO SCALE



PLAN

PM 10.13 - PM 10.20

TRAFFIC HANDLING PLAN

(STAGE 1)

NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

REVISED BY | DATE REVISED

CECILE NGUYEN | FAWZI YAGHMOUR

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

LAST REVISION 09-02-14 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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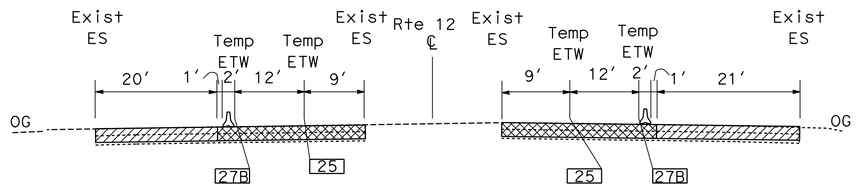
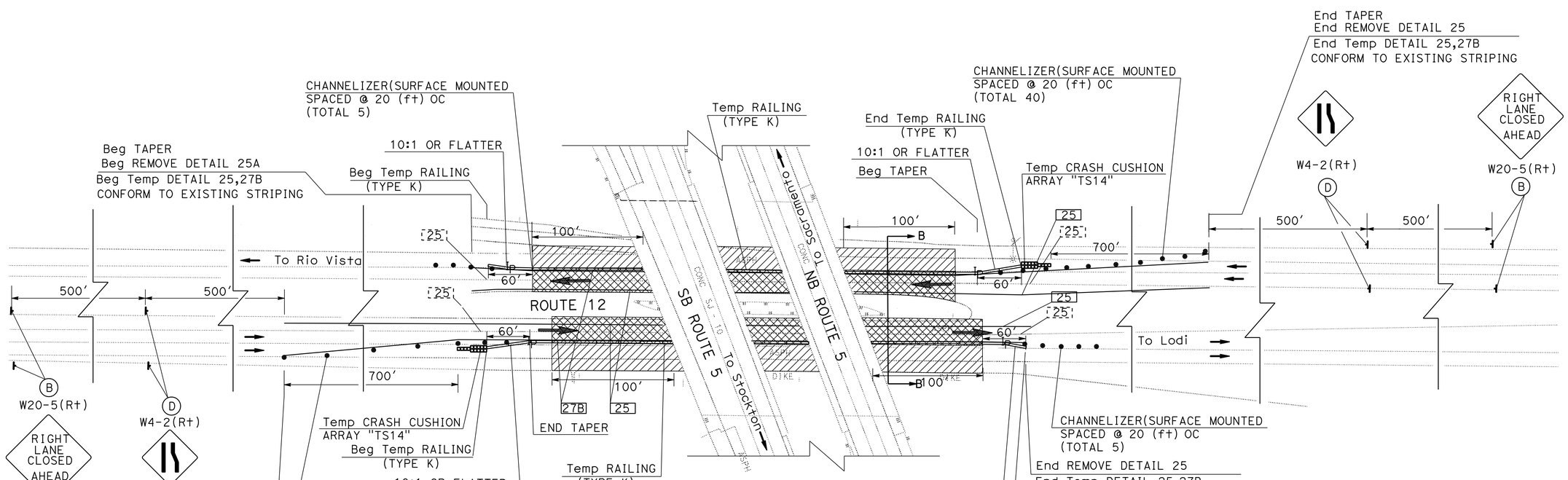


SECTION B-B

STAGE 2

NO SCALE



PLAN
PM 10.13 - PM 10.20

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN

(STAGE 2)

NO SCALE

TH-2

REVISED BY	DATE REVISED

CECILE NGUYEN — CALCULATED-DESIGNED BY
FAWZI YAGHMOUR — CHECKED BY
MOHAMMED QATAMI — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

LAST REVISION 09-02-14
DATE PLOTTED => 09-SEP-2014
TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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

NOTE:

1. FOR ADDITIONAL CONSTRUCTION AREA SIGNS REFER TO SHEET CS-1.
2. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

STAGE	SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS
						EA
1&2	B	W20-5	RIGHT LANE CLOSED 1000′	48" x 48"	1 - 6" x 6"	4
	C	W4-2 Lt	LEFT LANE END SYMBOL	48" x 48"	1 - 6" x 6"	4
	D	W4-2 Rt	RIGHT LANE END SYMBOL	48" x 48"	1 - 6" x 6"	4
	E	W20-5	LEFT LANE CLOSED 1000′	48" x 48"	1 - 6" x 6"	4
	F	R3-2	NO LEFT TURN SYMBOL	36" x 36"	1 - 4" x 6"	1

TEMPORARY RAILING (TYPE K)

STAGE	DIRECTION	LOCATION	LF	OBJECT MARKER (TYPE P) (N)
		POST MILE		EA
1	WB	10.13 To 10.20	540	2
	EB		540	2
2	WB		540	2
	EB		540	2
TOTAL			2,160	

TEMPORARY CRASH CUSHION MODULE

STAGE	TYPE "TS14"
	EA
1	28
2	28
TOTAL	56

CHANNELIZER (SURFACE MOUNTED)

STAGE	EA
1	90
2	90
TOTAL	180

TEMPORARY PAVEMENT DELINEATION QUANTITIES

STAGE	DIRECTION	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MAKER	TEMPORARY TRAFFIC STRIPE (PAINT)				TEMPORARY PAVEMENT MARKER	
					4" WHITE	8" WHITE		4" YELLOW	TYPE	
					DETAIL 27B	DETAIL 36	DETAIL 38	DETAIL 25	G	H
		LF	LF	EA	LF				EA	
1	WB		813	25	1,170	100		1,170	6	25
	EB		1,462	25	1,170			1,170		25
2	WB	1,170		25	1,170	100		1,170	6	25
	EB	1,170		25	1,170		470	1,170	20	25
SUBTOTAL		2,340	2,275	100	4,680	200	470	4,680	32	100
TOTAL		2,340 *	2,275 *	100 *	10,030				132	

* SEE PDQ-1 FOR TOTAL QUANTITIES

TRAFFIC HANDLING QUANTITIES

THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: CECILE NGUYEN

CHECKED BY: FAWZI YAGHMOUR

REVISED BY

DATE REVISED

LAST REVISION 09-02-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

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

PLANS APPROVAL DATE

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

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

NOTES:

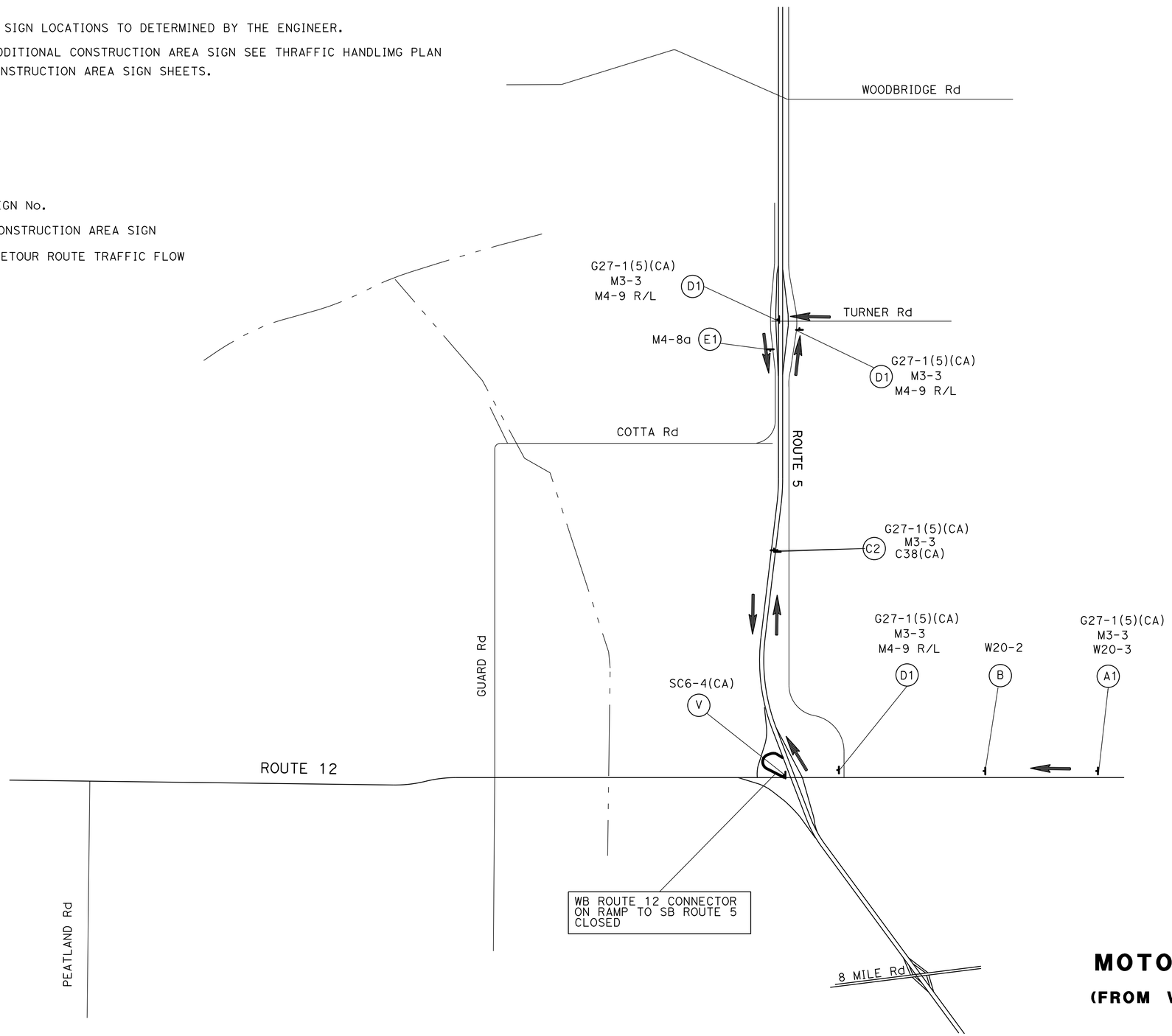
1. EXACT SIGN LOCATIONS TO DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGN SEE THRAFFIC HANDLIMG PLAN AND CONSTRUCTION AREA SIGN SHEETS.

LEGEND

(X) SIGN No.

CONSTRUCTION AREA SIGN

DETOUR ROUTE TRAFFIC FLOW



MOTORIST INFORMATION PLAN

(FROM WB ROUTE 12 SB ON RAMP CLOSED)

MI-1

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: GURMIT GILL

CHECKED BY: FAWZI YAGHMOUR

REVISED BY

DATE REVISED

LAST REVISION 08-20-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

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REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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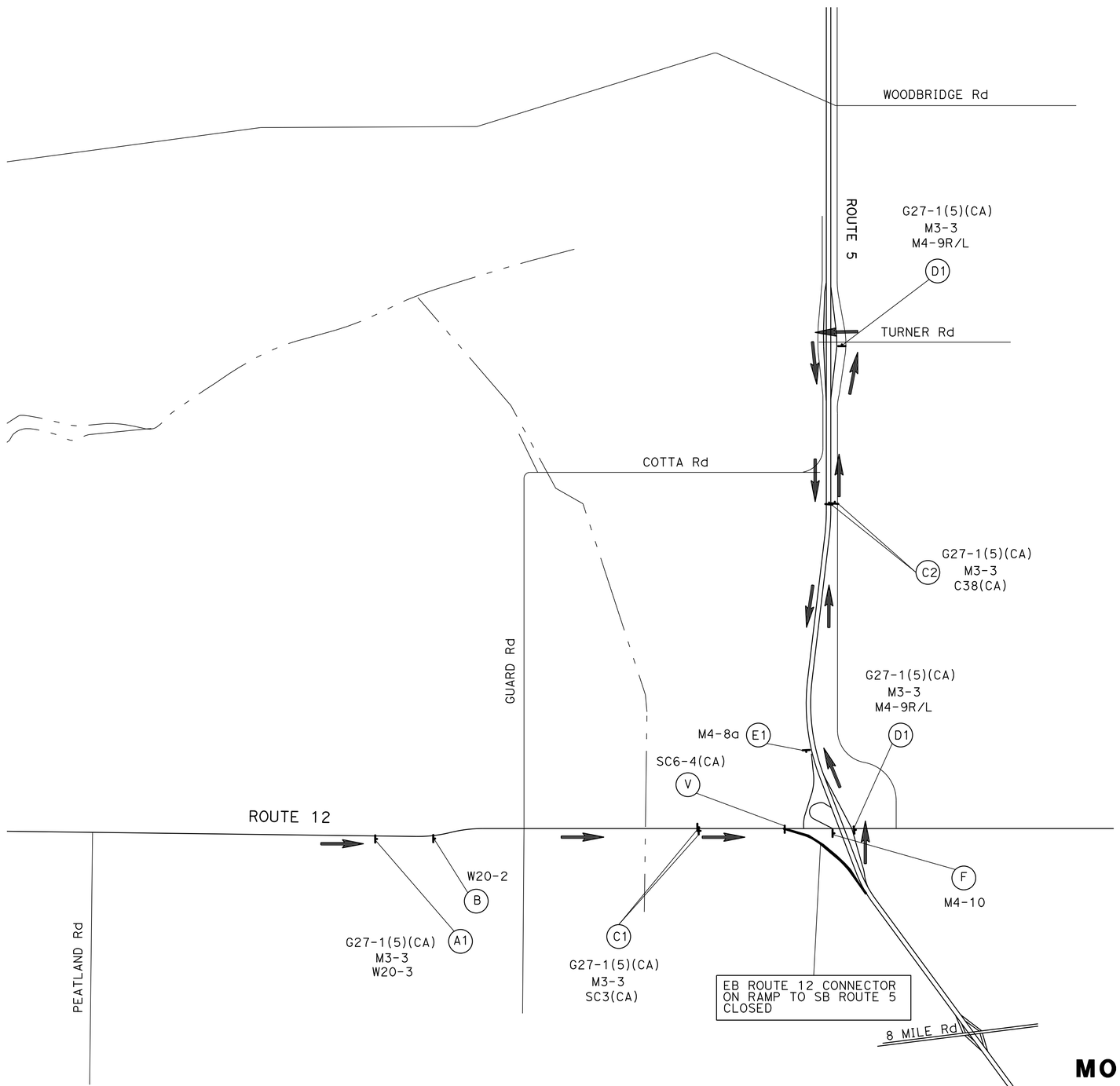

MOTORIST INFORMATION PLAN

(FROM EB ROUTE 12 SB ON RAMP CLOSED)

APPROVED FOR MOTORIST INFORMATION WORK ONLY

NO SCALE

MI-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: GURMIT GILL

CHECKED BY: FAWZI YAGHMOUR

REVISED BY

DATE REVISED

LAST REVISION 08-20-14

DATE PLOTTED => 09-SEP-2014

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

PLANS APPROVAL DATE

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

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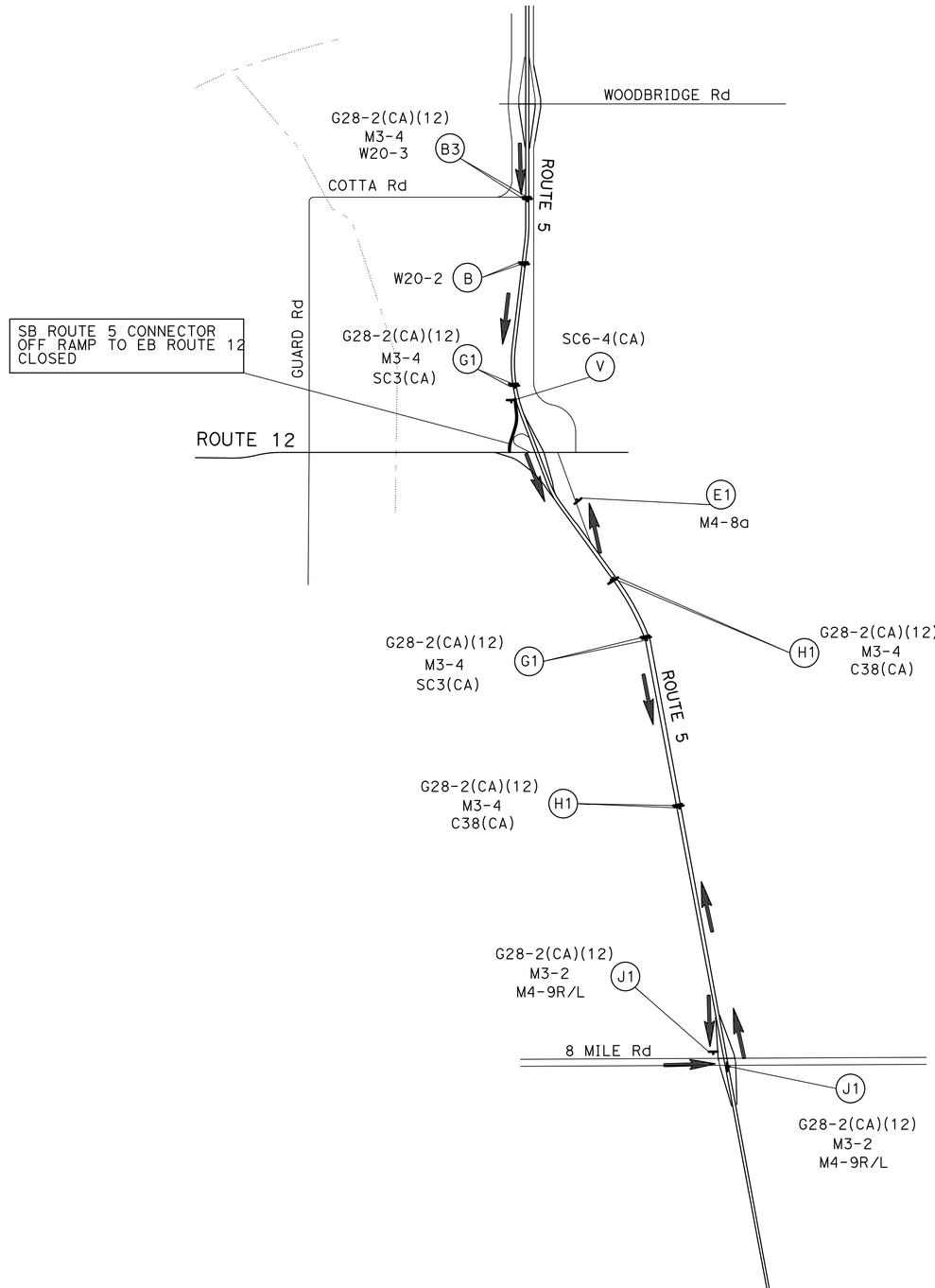

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN

(SB OFF RAMP CLOSED)

NO SCALE

MI-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: GURMIT GILL

CHECKED BY: FAWZI YAGHMOUR

REVISED BY

DATE REVISED

LAST REVISION 08-20-14

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REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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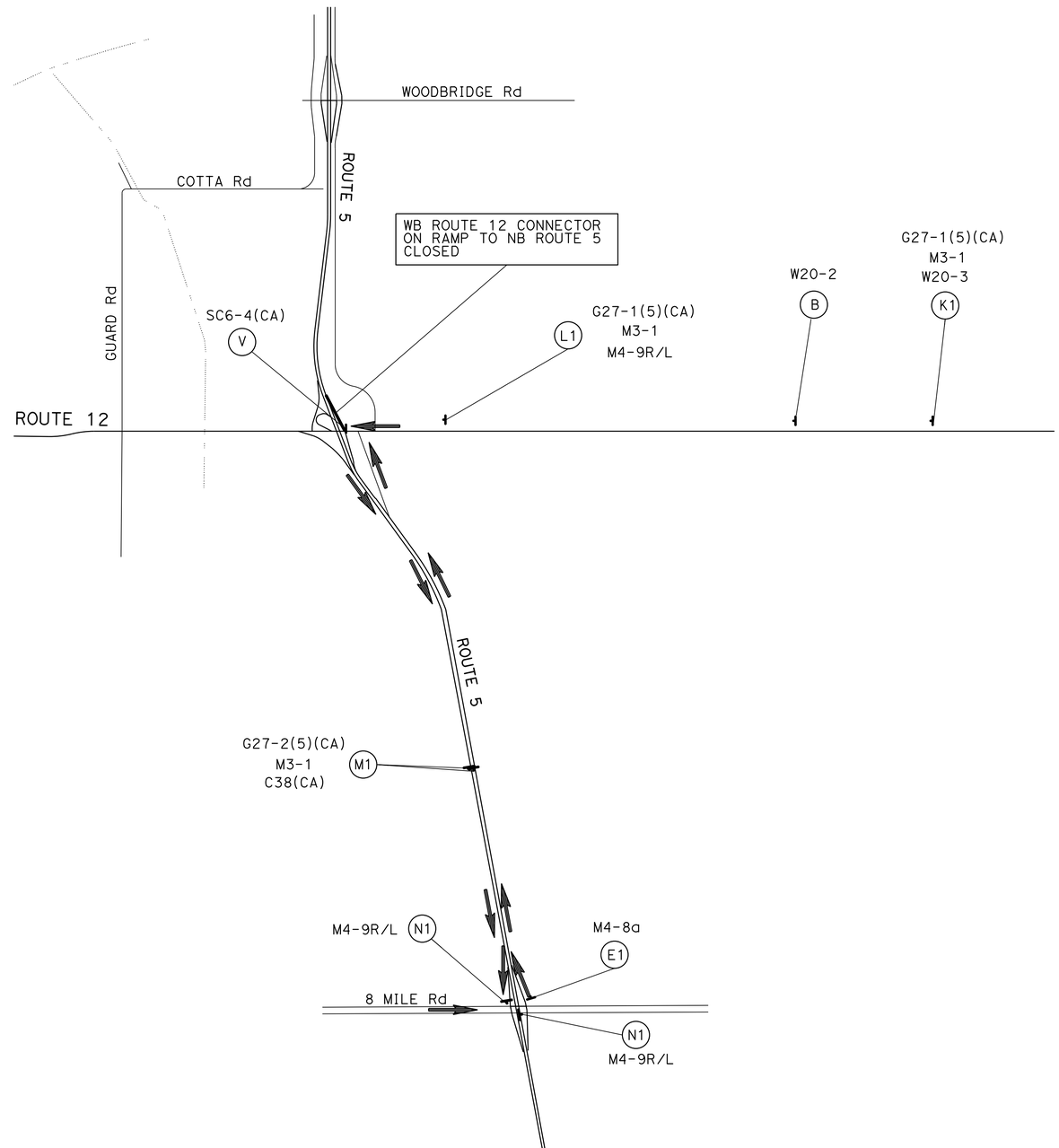

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN

(NB ON RAMP CLOSED)

NO SCALE

MI-4

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **TRAFFIC DESIGN**

LAST REVISION 08-20-14 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

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

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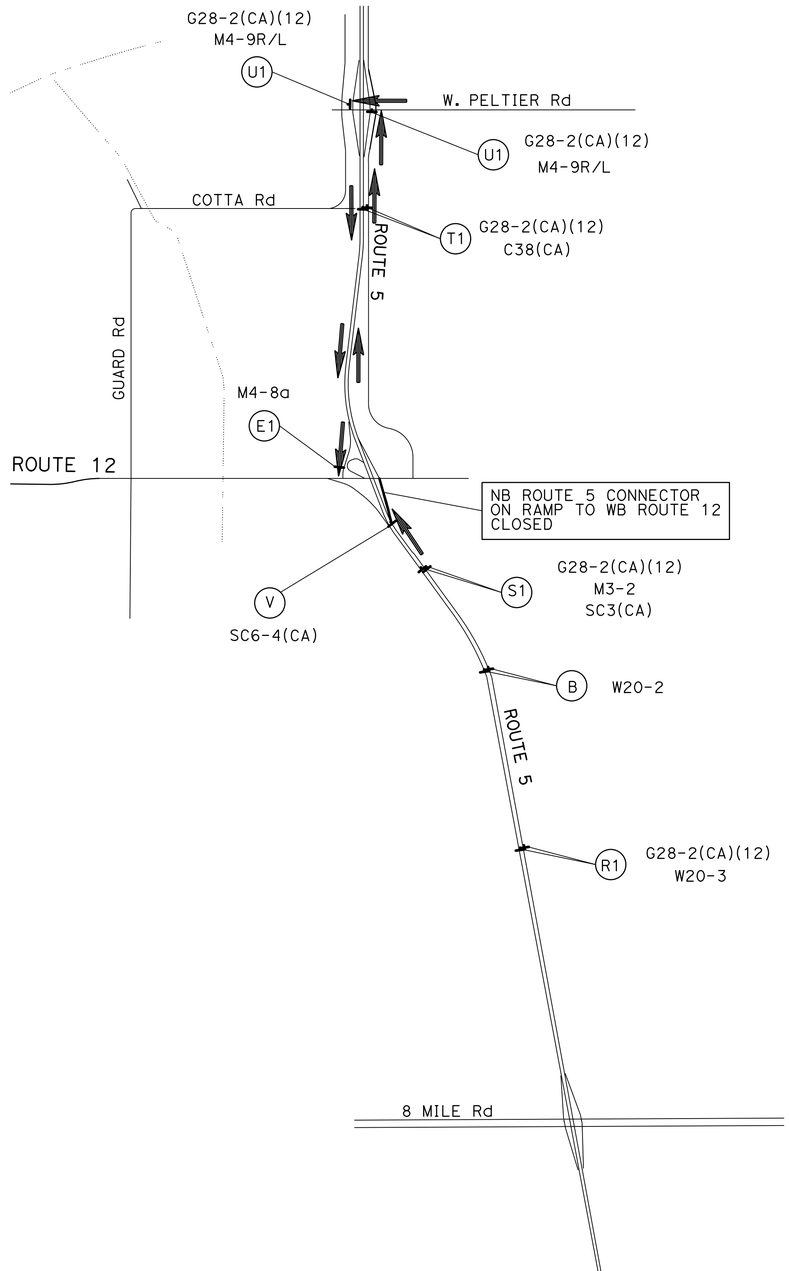

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN
(NB OFF RAMP CLOSED)

NO SCALE

MI-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: FAWZI YAGHMOUR

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 08-20-14

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TIME PLOTTED => 14:30

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

PLANS APPROVAL DATE

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

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CONSTRUCTION AREA SIGNS (PORTABLE)
(TRAFFIC HANDLING)

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	No. OF SIGN
B	W20-2		48" x 48"	DETOUR AHEAD	5
E1	M4-8a		24" x 18"	END DETOUR	5
F	M4-10		48" x 18"	DETOUR/ARROW	1
A1		G27-1(5)(CA)	24" x 24"	SHIELD (5)	2
	M3-3		26" x 12"	SOUTH	
	W20-3		48" x 48"	RAMP CLOSED AHEAD	
D1		G27-1(5)(CA)	24" x 24"	SHIELD (5)	5
	M3-3		26" x 12"	SOUTH	
	M4-9R/L		30" x 24"	DETOUR ARROW (R/L)	
C1		G27-1(5)(CA)	24" x 24"	SHIELD (5)	2
	M3-3		26" x 12"	SOUTH	
		SC3(CA)	36" x 12"	DETOUR UP ARROW	
C2		G27-1(5)(CA)	24" x 24"	SHIELD (5)	4
	M3-3		26" x 12"	SOUTH	
		C38(CA)	36" x 48"	USE NEXT EXIT	
G1		G28-2(CA)(12)	28" x 25"	MARKER(12)	4
	M3-4		26" x 12"	WEST	
		SC3(CA)	36" x 12"	DETOUR UP ARROW	
H1		G28-2(CA)(12)	28" x 25"	MARKER(12)	4
	M3-4		26" x 12"	WEST	
		C38(CA)	36" x 48"	USE NEXT EXIT	
B3		G28-2(CA)(12)	28" x 25"	MARKER(12)	2
	M3-4		26" x 12"	WEST	
	W20-3		48" x 48"	RAMP CLOSED AHEAD	
J1		G28-2(CA)(12)	28" x 25"	MARKER(12)	2
	M3-2		26" x 12"	EAST	
	M4-9R/L		30" x 24"	DETOUR ARROW (R/L)	
K1		G27-1(5)(CA)	24" x 24"	SHIELD (5)	1
	M3-1		26" x 12"	NORTH	
	W20-3		48" x 48"	RAMP CLOSED AHEAD	
L1		G27-1(5)(CA)	24" x 24"	SHIELD (5)	1
	M3-1		26" x 12"	SOUTH	
	M4-9R/L		30" x 24"	DETOUR ARROW (R/L)	

MOTORIST INFORMATION QUANTITIES

MIQ-1

REVISED BY | DATE REVISED

GURMIT GILL | FAWZI YAGHMOUR

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

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CONSTRUCTION AREA SIGNS (PORTABLE)
(TRAFFIC HANDLING)

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	No. OF SIGN
M1		G27-2(5)(CA)	24" x 24"	SHIELD (5)	2
	M3-1		26" x 12"	NORTH	
		C38(CA)	36" x 48"	USE NEXT EXIT	
N1	M4-9R/L		30" x 24"	DETOUR ARROW (R/L)	2
R1		G28-2(CA)(12)	28" x 25"	MARKER(12)	2
	W20-3		48" x 48"	RAMP CLOSED AHEAD	
S1		G28-2(CA)(12)	28" x 25"	MARKER(12)	2
	M3-2		26" x 12"	EAST	
		SC3(CA)	36" x 12"	DETOUR UP ARROW	
T1		G28-2(CA)(12)	28" x 25"	MARKER(12)	2
		C38(CA)	36" x 48"	USE NEXT EXIT	
U1		G28-2(CA)(12)	28" x 25"	MARKER(12)	2
	M4-9R/L		30" x 24"	DETOUR ARROW (R/L)	
V		SC6-4(CA)	48" x 60"	RAMP CLOSED XX-XX THRU XX-XX	5

MOTORIST INFORMATION QUANTITIES

MIQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: FAWZI YAGHMOUR

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 08-20-14

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REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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PAVEMENT DELINEATION QUANTITIES

ROUTE	LOCATION/PM	DIRECTION	DETAIL No.	PAVEMENT MARKERS (NON-REFLECTIVE) TYPE A	PAVEMENT MARKERS (RETROREFLECTIVE) TYPE D	PAVEMENT MARKERS (RETROREFLECTIVE) TYPE G	PAVEMENT MARKERS (RETROREFLECTIVE) TYPE H	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS-WASTE)	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE 8" WHITE	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE	THERMOPLASTIC TRAFFIC STRIPE 4" YELLOW	THERMOPLASTIC TRAFFIC STRIPE 4" (BROKEN 36-12)	THERMOPLASTIC TRAFFIC STRIPE 4" (BROKEN 17-7)
				EA	EA	EA	EA	LF	LF	EA	LF	LF	LF	LF	LF
12	PM 5-0 TO PM-11.0	EB	27B					31,223				31,223			
		WB	27B					31,465				31,465			
12	PM 5-0 TO PM-11.0	EB/WB	27C					168				672			
12	PM 5-5.262 TO -5.512	EB	38			21		948		21	474				
		WB	38			13		553		13	276				
12	PM 8.7-8.8	EB	38			10		414		10	207				
		WB	38			11		453		11	227				
12	PM 9.82-9.87	EB	36			12		528		12	264				
12	PM 10.0-10.262	EB	38			20		990		20	495				
		WB	38			11		454		11	227				
12	PM 10.26-10.262	EB	37			96		560		96	1,400				
		WB	37			20		193		20	483				
		EB	38			43		2,034		43	1,017				
		WB	38			17		750		17	375				
12	PM 5-0 TO PM-11.0	EB	11/13	480		121		1,438		601		5,752			
		WB	11/13	344		85		1,002		429		4,011			
		EB/WB	6		297				3,550	297			14,203		
		EB/WB	19		106	210			2,705	316			4,328		
		EB/WB	22		782				18,690	782			18,690		
		EB/WB	29		858				20,514	858			20,514		
5	NE ON RAMP		25A				56		1,300	56			1,300		
			27B					1,670				1,670			
			12			15		662		15				662	
			8					100							345
			36A			20		456		20	456				
			38			29		660		29	660				
5	NE ON RAMP LOOP		25A				48		1,125	48			1,125		
			27B					1,345				1,345			
			8					28							95
			36A			22		460		22	460				
5	NW OFF RAMP		25A				66		1,558	66			1,558		
			27B					1,845				1,845			
			12			16		700		16				700	
			36			24		550		24	550				
			38			11		219		11	219				
5	SW ON RAMP		25A				81		1,915	81			1,915		
			27B					2,500				2,500			
			8					89							305
			36A			53		1,230		53	1,230				
5	SE OFF RAMP		25A				60		1,410	60			1,410		
			27B					1,410				1,410			
			12			19		840		19				840	
			8					88							300
			36			22		490		22	490				
			38			44		1,019		44	1,019				
TOTAL PDQ-1				824	2,043	965	311	89,534	52,767	4,143	10,529	87,645	65,043	2,202	1,045
TOTAL THQ-1								2,275	2,340	100					
SUB TOTAL				824	2,043	965	311	91,809	55,107	4,243	10,529	87,645	65,043	2,202	1,045
GRAND TOTAL				824	3,319			91,809	55,107	4,243	10,529	152,688		2,202	1,045

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED

FAWZI YAGHMOUR | DAVID BLACK

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

LAST REVISION 08-21-14 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/13 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		REMOVE THERMOPLASTIC PAVEMENT MARKING								THERMOPLASTIC PAVEMENT MARKING							
PM	EB/WB	SQFT								SQFT							
		TYPE III ARROW	TYPE V ARROW	TYPE VI ARROW	CROSS WALK	STOP	CHP PM MARKING	LIMIT LINE	CHEVRON	TYPE III ARROW	TYPE V ARROW	TYPE VI ARROW	CROSS WALK	STOP	CHP PM MARKING	CHEVRON	LIMIT LINE
PM 5-5.262 TO -5.512	EB	168				44		45		168				44			45
	WB	84				22		40		84				22			40
PM 6.012 TO -6.10	EB					22		43						22			43
PM 6.8 TO -7.012	EB					22		43						22			43
PM 8.672 TO -8.80	EB	84				22		40		84				22			40
	WB	84				22		21		84				22			21
PM 9.262 TO -9.762	EB		99								99						
	WB																
PM 9.762-10.012	EB		66								66						
	WB		132								132						
PM 10.0-10.26	EB					22		173	49					22		49	173
	WB							445									445
PM 10.26-11.0	EB	462		126	419			445		462		126	419				445
	WB	210						22		210							22
PM 5.0							12								12		
PM 5.47							12								12		
PM 5.97							12								12		
PM 16.46							12								12		
PM 6.96							12								12		
PM 7.46							12								12		
PM 7.96							12								12		
PM 8.44							12								12		
PM 9.94							12								12		
PM 9.42							12								12		
PM 10.0							12								12		
PM 11.0							12								12		
SUB-TOTAL		1,092	297	126	419	176	144	1,317	49	1,092	297	126	419	176	144	49	1,317
TOTAL		3,620 *								3,620 *							

* SEE PDQ-3 SHEET FOR TOTAL QUANTITY.

REVISED BY | DATE REVISED

FAWZI YAGHMOUR | DAVID BLACK

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

PAVEMENT DELINEATION QUANTITIES

PDQ-2

LAST REVISION 09-02-14 | DATE PLOTTED => 09-SEP-2014 TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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

PAVEMENT DELINEATION QUANTITIES

LOCATION	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING											
		TYPE III ARROW	TYPE V ARROW	TYPE VI ARROW	CROSS WALK	STOP	CHP PM MARKING	LIMIT LINE	CHEVRON	TYPE II ARROW	SIGNAL	AHEAD	DIAGONAL MARKING
ROUTE 5	SQFT	SQFT											
NE ON RAMP	159	126	33										
NW ON RAMP LOOP													
NW OFF RAMP	370	168						76			64	62	
SE OFF RAMP	535	252						100		135			48
SUB TOTAL	1,064	546	33					176		135	64	62	48
TOTAL	1,064	1,064											
TOTAL PQQ-2	3,620	3,620											
GRAND TOTAL	4,684	4,684											

REVISED BY | DATE REVISED

CECILE NGUYEN | FAWZI YAGHMOUR

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

PAVEMENT DELINEATION QUANTITIES

PDQ-3

LAST REVISION 09-02-14 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

ROADWAY QUANTITIES

LOCATION	TACK COAT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	SHOULDER BACKING	COLD PLANE AC PAVEMENT	PLACE HMA (MISC AREA)	ROADWAY EXCAVATION	JPCP	CLASS 2 AGGREGATE SUBBASE
	TON	TON	TON	TON	SQYD	SQYD	CY	CY	CY
PM 5.0 TO PM 11.0	103	21,798	16,991	2200	79,154		2480	1203	940
I-5 ON & OFF RAMP			3,580		100				
DIKE (TYPE E + F)			1,994						
SAFETY EDGE			644						
HMA OVERSIDE DRAIN			32			188.8			
PUBLIC ROADS	3				360	25			
PRIVATE DRIVEWAYS	1				1,700	10			
TOTAL	107	21,798	23,241	2200	81,314	223.8	2480	1203	940

ADJUST MONUMENT TO GRADE

LOCATION (PM)	MONUMENT EA
8.9 WB	1
8.6 EB	1
8.8 EB	1
9.2 EB	1
TOTAL	4

RUMBLE STRIP

LOCATION PM - PM	CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	REMOVE RUMBLE STRIP
	Sta	Sta	Sta
5.0 - 11.0		635	635
5.0 - 9.65	246		246
TOTAL	246	635	881

SAFETY EDGE

LOCATION	LENGTH (N)	HMA (TYPE A)
WB	LF	TON
5.0 TO 9.0	21,120	156.4
10.1 To 10.16	317	2.3
10.2 To 10.21	53	0.4
10.22 TO 10.24	106	0.8
10.25 TO 10.48	1,215	9.0
10.5 TO 10.57	370	2.7
10.58 TO 11	2,218	16.4
WB & EB INSIDE SHOULDER		
9.59 TO 10.66	11,300	83.7
EB		
5.0 TO 9.0	21,120	156.4
10.04 TO 10.21	898	6.7
10.22 TO 10.24	106	0.8
10.26 TO 10.44	951	7.0
10.45 TO 11	2,904	21.5
ON & OFF I-5 RAMP IN AND OUTSIDE SHOULDER		
SB ON RAMP	6,638	49.2
SB ON LOOP RAMP	4,230	31.3
SB OFF RAMP	4,152	30.8
NB ON RAMP	5,444	40.3
NB OFF RAMP	3,822	28.3
TOTAL	86,964	644.0

(N) NOT A SEPERATE PAY ITEM, FOR INFORMATION ONLY

DIKE QUANTITIES

LOCATION (PM-PM)	PLACE HMA DIKE TYPE E	PLACE HMA DIKE TYPE F	HMA	Remove AC Dike
WB	LF	LF	TONS	LF
9.00-10.00	5,280		137.3	5,280
10.01-10.02		66	0.9	66
10.02 SB OFF-RAMP		92	1.2	92
10.00-10.10	525		13.7	525
10.04-10.06		102	1.3	102
10.16-10.20 MEDIAN		223	2.9	223
10.11-10.15	78		2.0	78
10.21-10.03	469		12.2	469
10.21-10.22		62	0.8	62
10.24-10.25		66	0.9	66
10.48-10.50		75	1.0	75
10.57-10.58		66	0.9	66
EB				
9.00-9.70	3,361		87.4	3,361
9.95-10.00	1,955		50.8	1,955
9.87-9.88		75	1.0	75
10.00-10.04	1,630		42.4	1,630
10.01-10.04		166	2.2	166
10.21-10.22		65	0.9	65
10.24-10.26 MEDIAN		70	0.9	70
NB OFF-RAMP		140	1.8	140
10.44-10.45		66	0.9	66
ON & OFF-RAMP	7,560		1630	7,560
TOTAL	20,858	1334	1993.4	22,192

* SEE ROADWAY QUANTITIES TABLE FOR PROJECT TOTAL

METAL BEAM GUARD RAILING

LOCATION (PM-PM)	REMOVE MBGR	REMOVE FLARED TERMINAL SYSTEM	MGS (STEEL POST) TYPE 12B	ALTERNATIVE FLARED TERMINAL SYSTEM	TREATED WOOD WASTE
WB	LF	EA	LF	EA	LB
10.007-10.019	66	2	66	2	1,056
10.017 SB OFF-RAMP	92	2	92	2	1,472
10.037-10.057	102	2	102	2	1,632
10.160-10.203 MEDIAN	223	2	223	2	3,568
10.213-10.224	62	2	62	2	992
10.236-10.249	66	2	66	2	1,056
10.483-10.497	75	2	75	2	1,200
10.567-10.580	66	2	66	2	1,056
EB					
9.868-9.882	75	2	75	2	1,200
10.013-10.044	166	2	166	2	2,656
10.209-10.222	65	2	65	2	1,040
10.241-10.255 MEDIAN	70	2	70	2	1,120
NB OFF RAMP	140	2	140	2	2,240
10.441-10.454	66	2	66	2	1,056
TOTAL	1333	28	1333	28	21,344

SUMMARY OF QUANTITIES
Q-1

REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
SA	08-11-14	YOON HAHN	SHEIKH ALAM	NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Sheikh Alam No. 72145 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

DIGOUTS

LOCATION WESTBOUND (PM-PM)	LANE	LENGTH	WIDTH	COLD PLANE AC Pvmt	ASPHALT CONCRETE (TYPE A)
				SQYD	TON
6.364/6.370	1	32′	12′	43	9
6.370/6.435	1	343′	12′	457	91
6.435/6.508	1	385′	10′	428	86
6.508/6.528	1	106′	12′	141	28
6.528/6.558	1	158′	10′	176	35
6.558/6.616	1	306′	10′	340	68
6.616/6.685	1	364′	10′	404	81
6.685/6.693	1	42′	10′	47	9
6.693/6.708	1	79′	10′	88	18
6.708/6.720	1	63′	10′	70	14
6.720/6.751	1	164′	10′	182	36
6.751/6.800	1	259′	10′	228	58
6.802/6.818	1	84′	12′	112	22
6.818/6.922	1	549′	12′	732	146
6.922/7.009	1	459′	12′	612	122
7.009/7.017	1	42′	12′	56	11
7.017/7.034	1	90′	10′	100	20
7.034/7.047	1	69′	10′	77	15
7.047/7.057	1	53′	12′	71	14
7.057/7.118	1	322′	12′	429	86
7.118/7.396	1	1,468′	10′	1,631	326
7.396/7.445	1	259′	10′	288	58
7.455/7.790	1	1,769′	10′	1,966	393
7.790/7.841	1	269′	10′	299	60
7.841/8.000	1	840′	10′	933	187
8.017/8.027	1	53′	10′	59	12
8.000/8.556	1	2,936′	10′	2,262	652
8.040/8.158	1	623′	10′	692	138
8.158/8.265	1	565′	12′	753	151
8.265/8.321	1	296′	10′	329	66
8.321/8.360	1	206′	10′	229	46
8.360/8.512	1	803′	10′	892	178
8.517/8.592	1	396′	10′	440	88
8.592/9.105	1	2,709′	10′	3,010	602
9.108/9.216	1	570′	10′	633	127
9.108/9.239	1	692′	10′	769	154
9.216/9.389	1	913′	10′	1,014	203
9.399/9.637	1	1,257′	10′	1,397	279
9.435/10.130	2	3,670′	10′	4,078	816
10.256/10.443	2,3	1,230′	12′	1,640	328
10.211/10.468	1,2	1,357′	18′	2,714	543
10.468/10.496	2,3	148′	18′	296	59
10.496/10.595	2,3	523′	10′	518	116
10.514/10.587	1	385′	10′	428	86
10.587/10.902	1	1,663′	20′	3,696	739
10.906/10.989	1	438′	10′	487	97
				37,368	7,474

DIGOUTS

LOCATION EASTBOUND (PM-PM)	LANE	LENGTH	WIDTH	COLD PLANE AC Pvmt	ASPHALT CONCRETE (TYPE A)
				SQYD	TON
6.300/6.403	1	544′	10′	604	121
6.403/6.424	1	111′	10′	123	25
6.424/6.459	1	185′	12′	247	49
6.459/6.481	1	116′	12′	155	31
6.484/6.534	1	264′	12′	352	70
6.534/6.680	1	771′	10′	857	171
6.680/6.704	1	127′	12′	169	34
6.704/6.707	1	16′	12′	21	4
6.704/6.722	1	95′	8′	84	17
6.722/6.735	1	69′	8′	61	12
6.722/6.767	1	238′	8′	212	42
6.767/6.814	1	248′	10′	276	55
6.814/6.856	1	222′	12′	296	59
6.858/7.110	1	1,331′	10′	1,479	296
7.113/7.172	1	312′	12′	416	83
7.172/7.197	1	132′	12′	176	35
7.197/7.264	1	354′	12′	472	94
7.264/7.374	1	581′	10′	646	129
7.384/7.417	1	174′	12′	232	46
7.417/7.601	1	972′	12′	1,296	259
7.601/7.685	1	444′	12′	592	118
7.685/7.738	1	280′	10′	311	62
7.738/7.869	1	692′	10′	769	154
7.869/8.013	1	760′	10′	844	169
8.013/8.023	1	53′	12′	71	14
8.000/8.114	1	602′	12′	803	161
8.114/8.453	1	1,790′	18′	3,580	716
8.453/8.510	1	301′	12′	401	80
8.510/8.550	1	211′	10′	234	47
8.550/9.050	1	2,640′	18′	5,280	1,056
9.098/9.257	1	840′	12′	1,120	224
9.232/9.273	1	216′	10′	240	48
9.273/9.322	1	259′	10′	288	58
9.322/9.376	1	285′	10′	317	63
9.326/9.473	1	776′	10′	862	172
9.403/9.535	1	697′	24′	1,859	372
9.453/9.614	1	850′	24′	2,267	453
9.555/9.934	1	2,001′	20′	4,447	889
9.889/9.992	2	544′	32′	1,934	387
9.992/10.130	1,2	729′	12′	972	194
10.206/10.214	1,2	42′	12′	56	11
10.214/10.323	2,3	576′	20′	1,280	256
10.346/10.450	1,2	549′	20′	1,220	244
10.450/10.469	2,3	100′	18′	200	40
10.638/10.655	1	90′	18′	180	36
10.655/10.825	1	898′	18′	1,796	359
10.825/10.985	1	845′	18′	1,690	338
			EB TOTAL	41,786	8,357
			WB TOTAL	37,368	7,474
			TOTAL	79,154	15,831

ACTUAL LOCATIONS AND DIMENSIONS OF DIGOUTS MAY VARY IN THE FILED AND WILL BE DETERMINED BY THE ENGINEER.

AC OVERSIDE DRAIN

LOCATION (PM)	PLACE HMA (Misc AREA)	HMA	REMOVE AC OVERSIDE DRAIN
WB	SQYD	TON	EA
9.16	5.9	1	1
9.23	5.9	1	1
9.29	5.9	1	1
9.42	5.9	1	1
9.79	5.9	1	1
9.85	5.9	1	1
9.93	5.9	1	1
9.96	5.9	1	1
9.98	5.9	1	1
10.06	5.9	1	1
10.07	5.9	1	1
10.27	5.9	1	1
EB			
9.14	5.9	1	1
9.21	5.9	1	1
9.29	5.9	1	1
9.41	5.9	1	1
9.48	5.9	1	1
9.50	5.9	1	1
9.52	5.9	1	1
9.58	5.9	1	1
9.61	5.9	1	1
9.64	5.9	1	1
9.95	5.9	1	1
9.97	5.9	1	1
9.99	5.9	1	1
10.02	5.9	1	1
10.10	5.9	1	1
10.12	5.9	1	1
10.15	5.9	1	1
10.26	5.9	1	1
10.30	5.9	1	1
10.31	5.9	1	1
TOTAL	188.8	32	32

ESA FENCE

LOCATION (PM-PM)	Temp Fence (Type-ESA)
	(LF)
5.16-5.37 EB	1,100
8.83-10.0 EB	8,830
9.05-9.80 WB	3,970
TOTAL	13,900

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

CALCULATED-DESIGNED BY: YOON HAHN | CHECKED BY: SHEIKH ALAM

REVISED BY: SA | DATE REVISED: 08-11-14

LAST REVISION: 00-00-00 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASPAL SINGH No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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

LEGEND: (FOR SHEET E-2 THRU E-6)

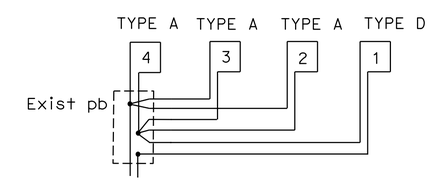
1. Exist MODEL 2070E CONTROLLER ASSEMBLY .
2. Exist TYPE III-CF SERVICE EQUIPMENT ENCLOSURE.
3. Exist MODEL 334L CONTROLLER CABINET WITH AUTOMATED TRAFFIC COUNTER FOR VCS.
4. Exist VCS.
5. Exist WEATHER MONITORING STATION.
6. PAS AND LOOP DETECTORS. SEE INDENTIFICATION AND PLACEMENT DETAILS ON SHEET E-7.
7. Exist 2-3"C, 12 DLC, 2#6, 6 STC, RC 6 STC ADD 6 STC.
8. Exist 3"C, 12 DLC, 6 STC, RC 6 STC ADD 6 STC.
9. Exist 3"C, 6 DLC, 3 STC, RC 3 STC ADD 3 STC.
10. Exist 3"C, 8 DLC, 4 STC, RC 4 STC ADD 4 STC.
11. Exist 3"C, 2 DLC, 1 STC, RC 1 STC ADD 1 STC.
12. Exist 3"C, 4 DLC, 2 STC, RC 2 STC ADD 2 STC.
13. Exist 2"C, 4 DLC, 2 STC, RC 2 STC ADD 2 STC.
14. INTERCEPT Exist CONDUIT FOR LOOP WIRE TERMINATION.
15. Exist TRAFFIC SIGNAL SYSTEM NOT SHOWN.
16. Exist TYPE 334L CONTROLLER CABINET FOR TRAFFIC MONITORING STATION.
17. Exist TYPE 334L CONTROLLER CABINET WITH AUTOMATED TRAFFIC COUNTER FOR VCS AND CCTV.
18. Exist 3"C, 2#8, 8 DLC, 4 STC, RC 4 STC ADD 4 STC.
19. Exist 3"C, 4#6, 8 DLC, 4 STC, RC 4 STC ADD 4 STC.
20. Exist 2-3"C, 2#6, 8 DLC, 4 STC, RC 4 STC ADD 4 STC.
21. Exist 2-3"C, 2#6, 8 DLC, 4 STC, 1-CAMERA CABLE, RC 4 STC ADD 4 STC.
22. Exist 3"C, 8 DLC, 3 STC, RC 3 STC ADD 3 STC.
23. Exist 2"C, 6 DLC, 2 STC, 1-CAMERA CABLE, RC 2 STC ADD 2 STC.
24. Exist 2-3"C, 2#6, 6 DLC, 2 STC, 1-CAMERA CABLE, RC 2 STC ADD 2 STC.
25. Exist 2-3"C, 2#6, 8 DLC, 3 STC, RC 3 STC ADD 3 STC.
26. Exist 2"C, 6 DLC, 2 STC, RC STC ADD 2 STC.
27. SPLICE LOOP DETECTORS IN PB AS SHOWN IN DETAIL A.
28. AB Exist LOOP DETECTORS AND INSTALL AS SHOWN.

ABBREVIATONS:

PAS - PIEZO AXLE SENSOR

STC - SCREENED TRANSMISSION CABLE

VCS - VEHICLE CLASSIFICATION STATION



TYPICAL LOOP CONNECTIONS

DETAIL A

LEGEND AND ABBREVIATIONS

APPROVED FOR ELECTRICAL WORK ONLY

E-1

REVISED BY | DATE REVISED

JASPAL SINGH | JORGE RAMIREZ

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR | ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

LAST REVISION 09-09-14 | DATE PLOTTED => 09-SEP-2014 | TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASPAL SINGH No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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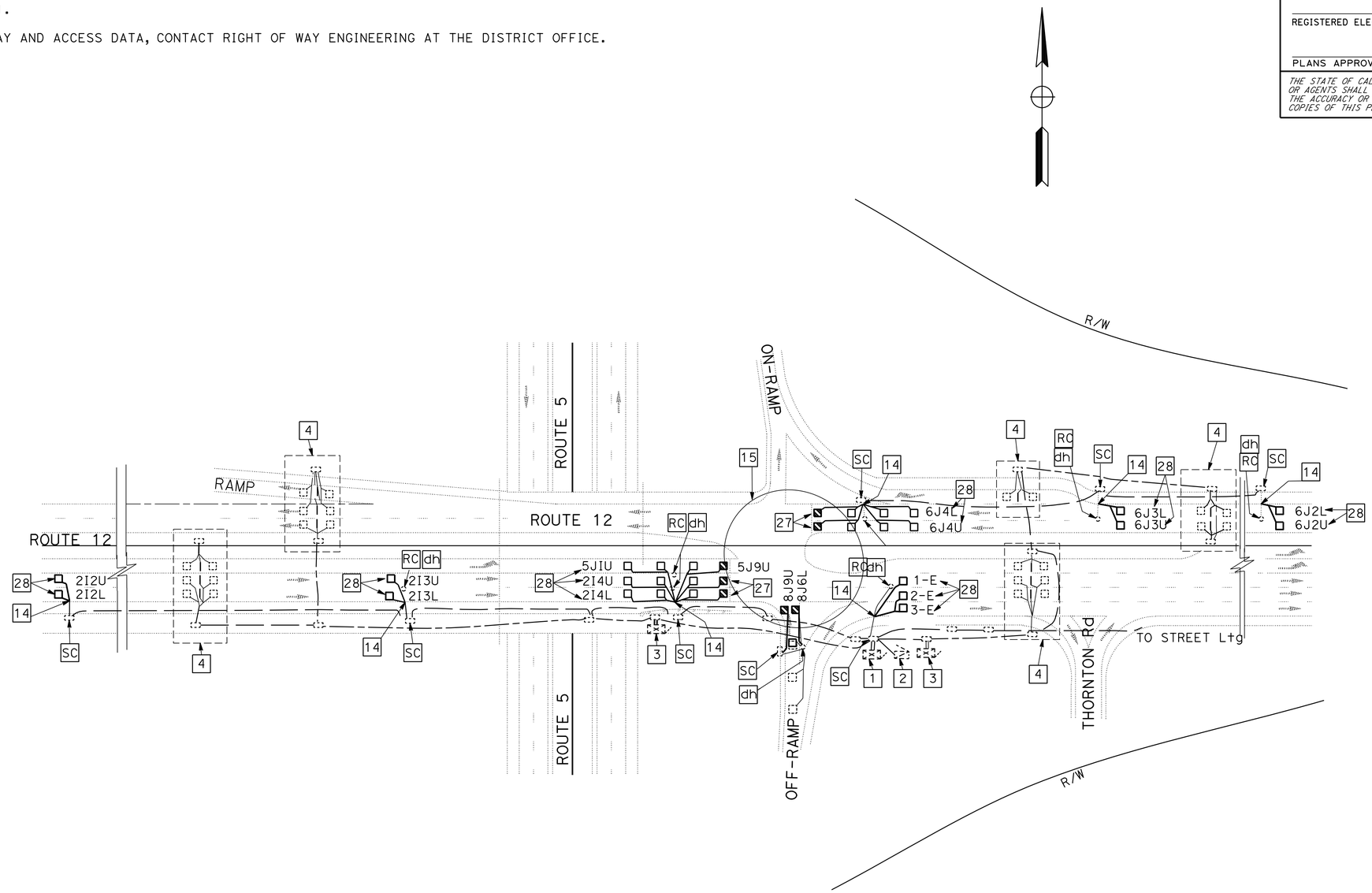
2. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

SCALE: 1"= 50'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: JASPAL SINGH

CHECKED BY: JORGE RAMIREZ

REVISED BY

DATE REVISED

LAST REVISION 09-09-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

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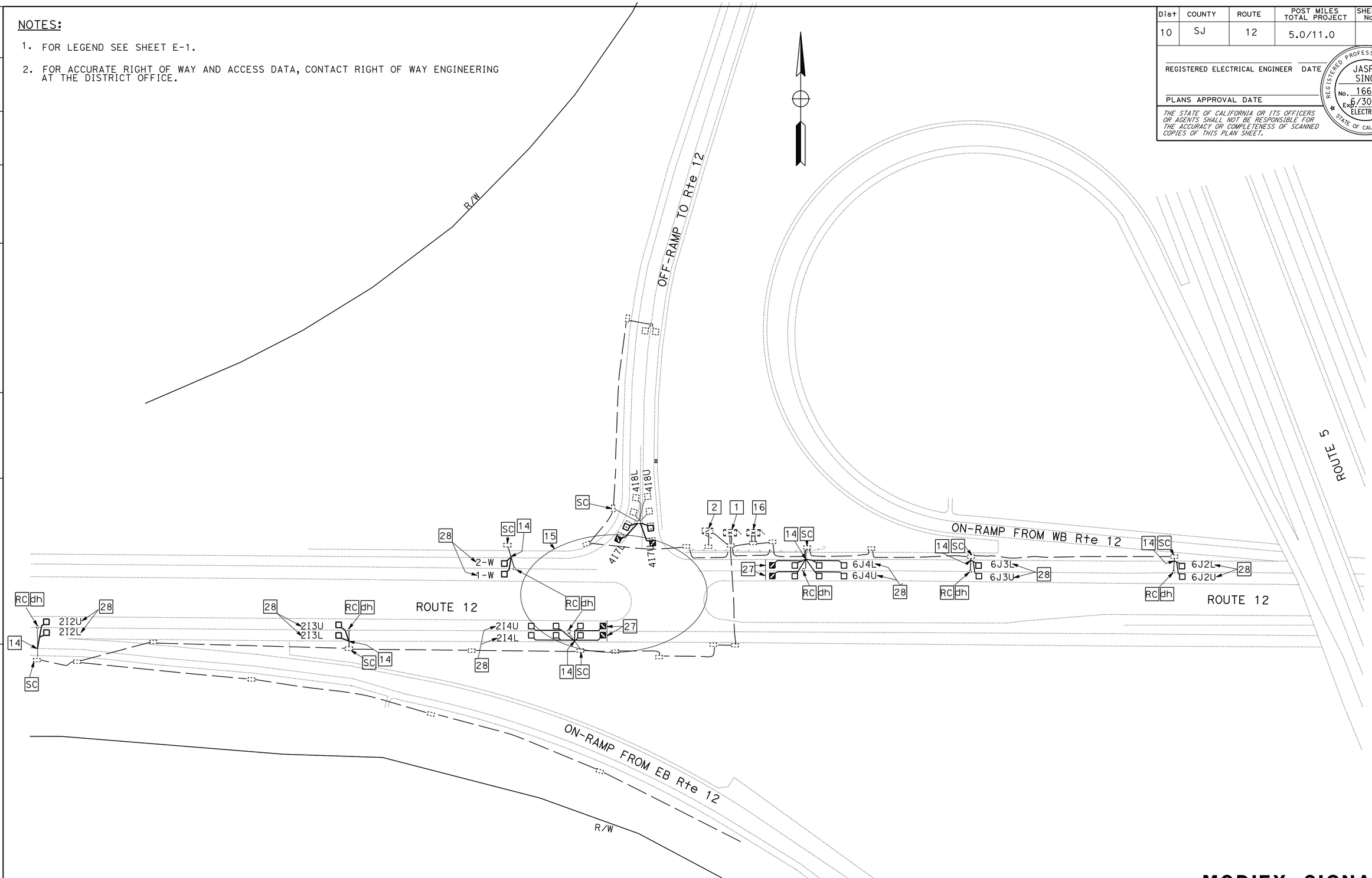

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

SCALE: 1" = 50'

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

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CALCULATED-DESIGNED BY: JASPAL SINGH

CHECKED BY: JORGE RAMIREZ

REVISED BY

DATE REVISED

LAST REVISION 09-09-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASPAL SINGH No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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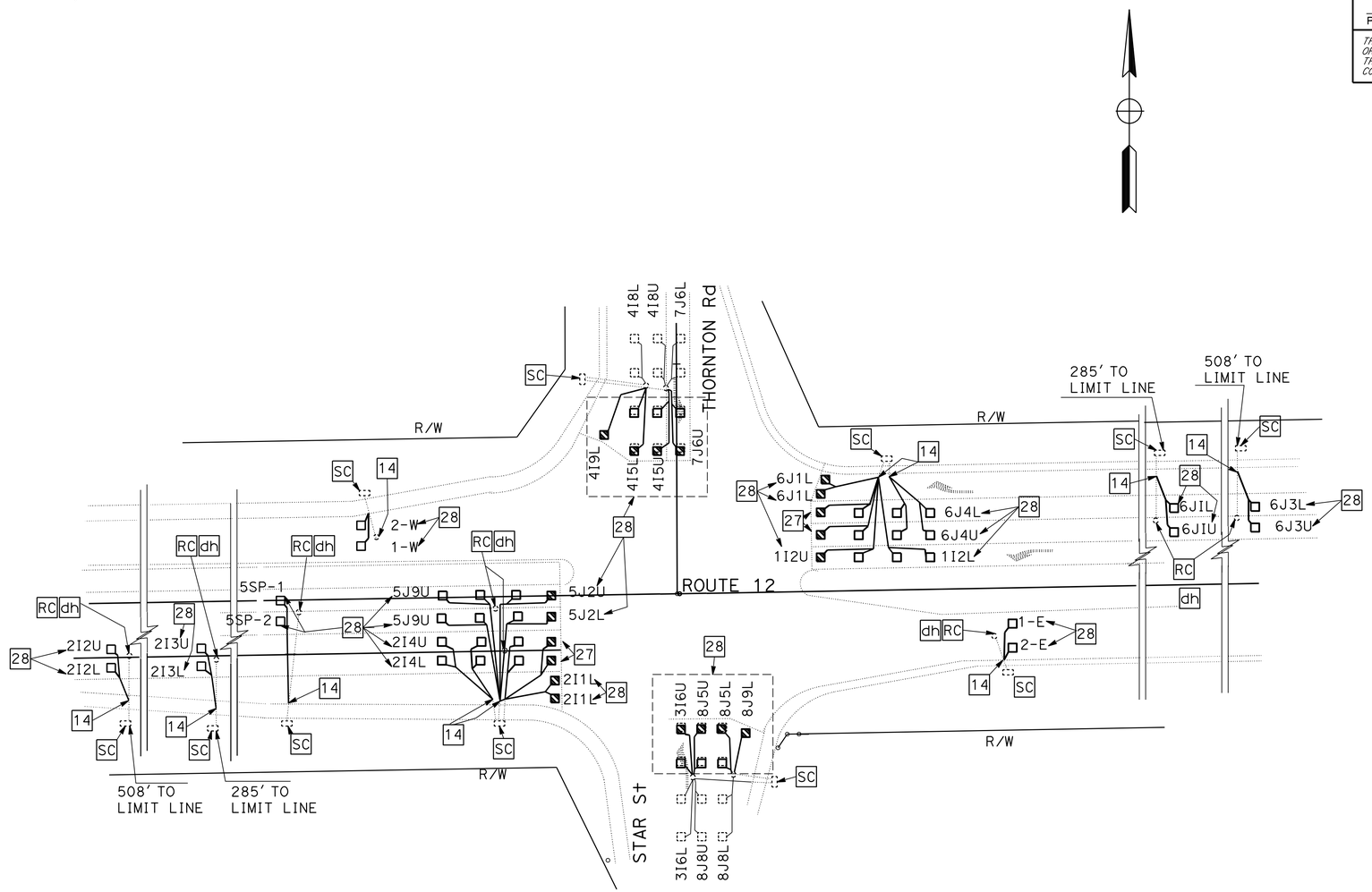

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MODIFY SIGNAL

NO SCALE

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: JASPAL SINGH

CHECKED BY: JORGE RAMIREZ

REVISED BY

DATE REVISED

LAST REVISION 09-09-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASPAL SINGH No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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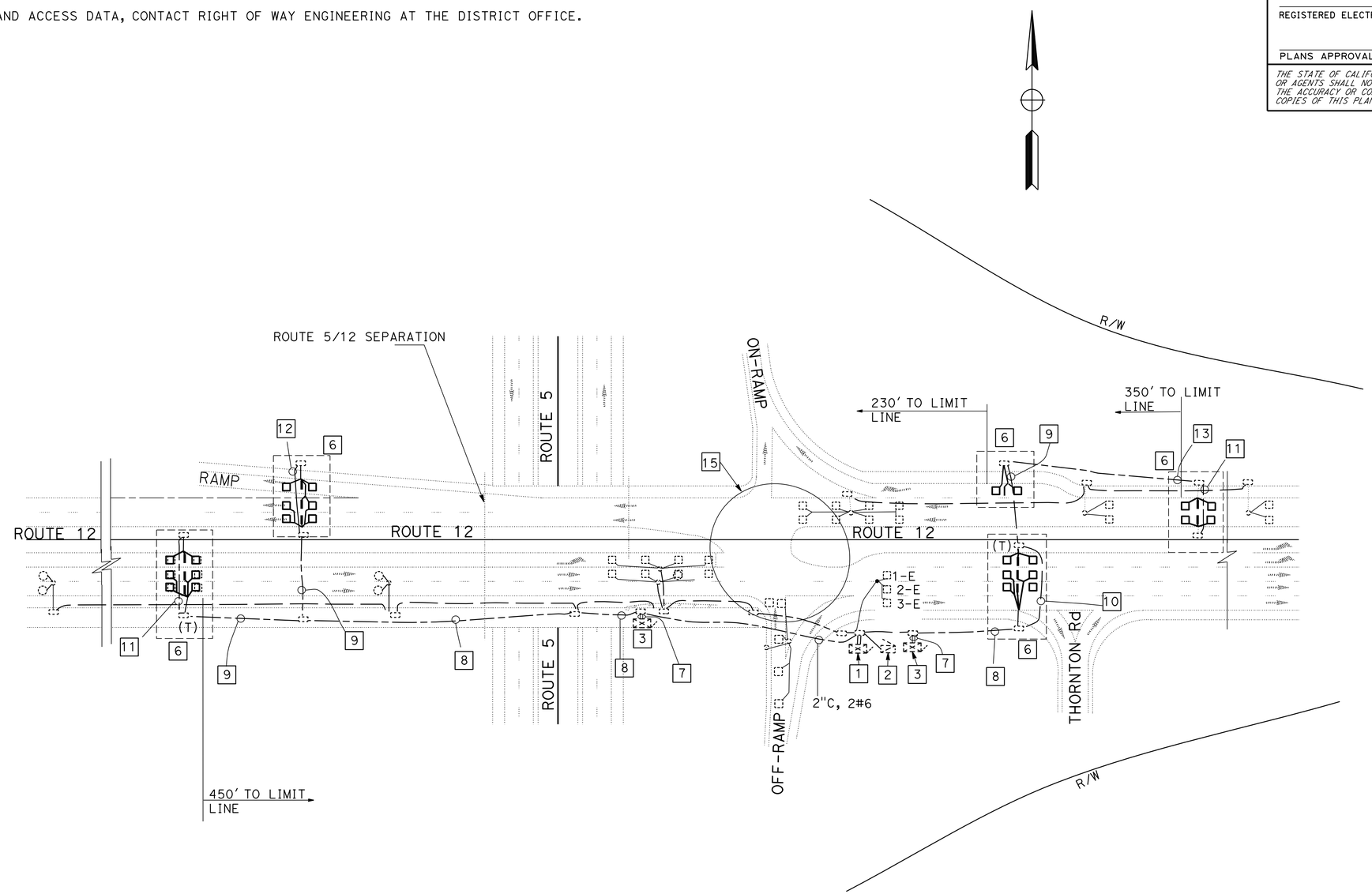

MODIFY VEHICLE CLASSIFICATION STATION

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1"= 50'

E-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: JASPAL SINGH

CHECKED BY: JORGE RAMIREZ

REVISED BY

DATE REVISED

LAST REVISION 09-09-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASPAL SINGH No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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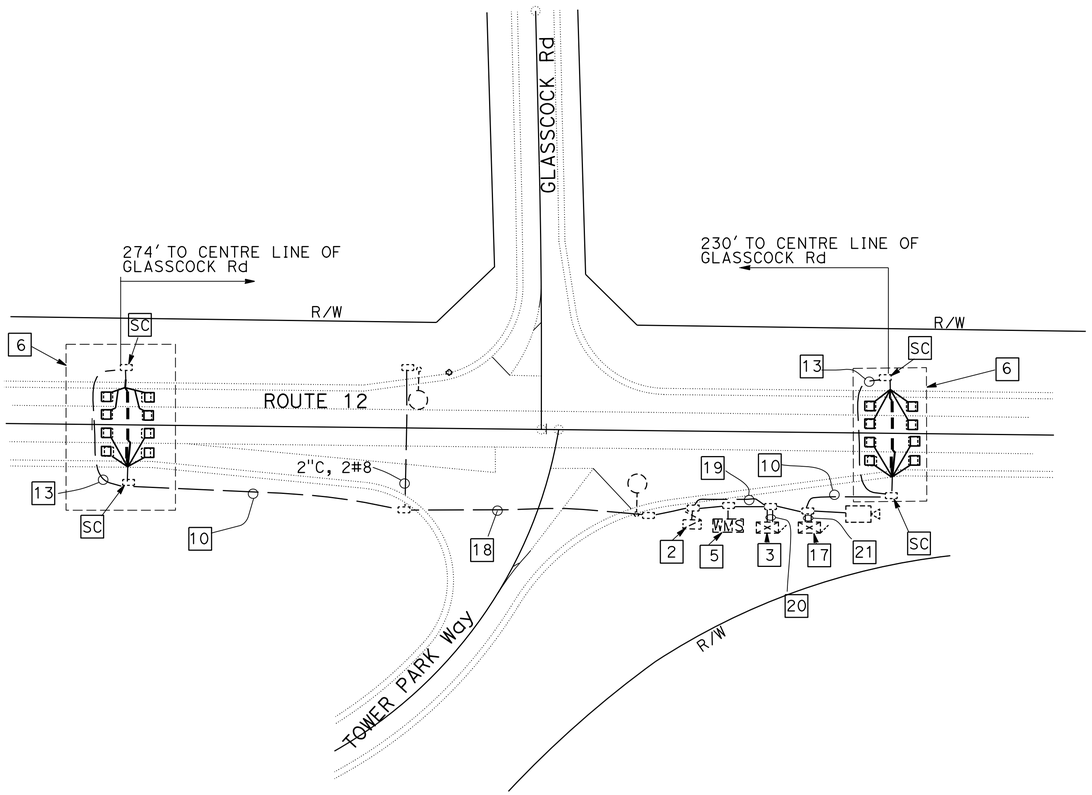

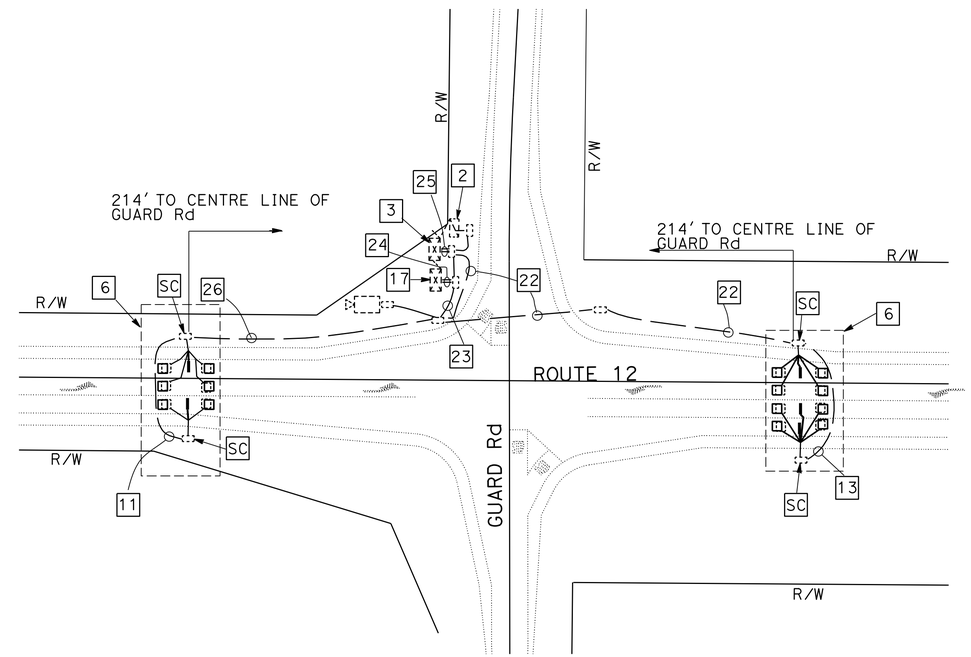

MODIFY VEHICLE CLASSIFICATION STATION

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1"= 50'

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: JASPAL SINGH

CHECKED BY: JORGE RAMIREZ

REVISED BY

DATE REVISED

LAST REVISION 09-09-14

DATE PLOTTED => 09-SEP-2014

TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	12	5.0/11.0		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASPAL SINGH No. E16657 Exp. 06/30/14 ELECTRICAL STATE OF CALIFORNIA

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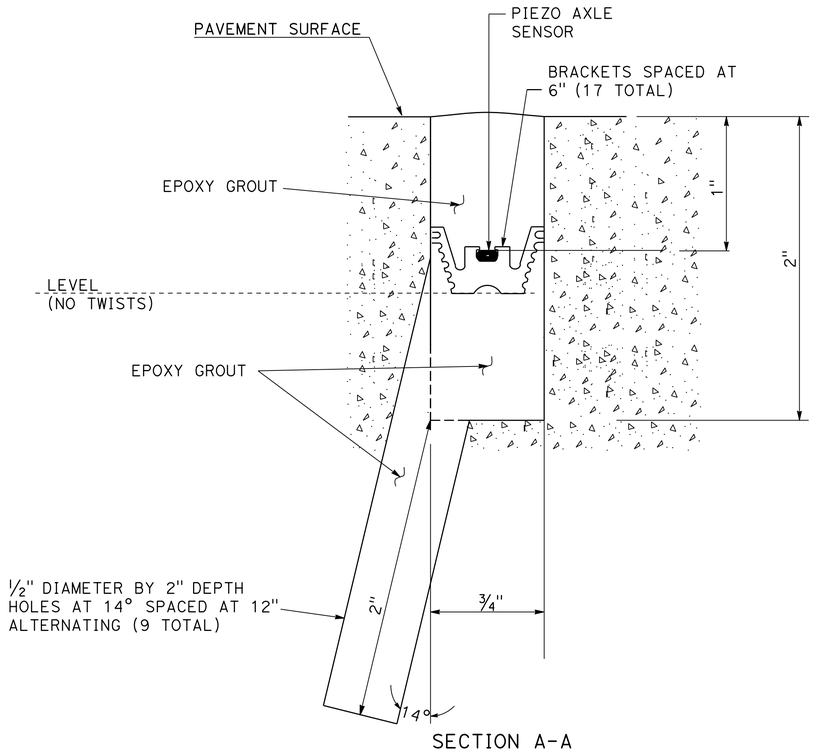


SECTION A-A

INDUCTIVE LOOP DETECTOR SENSOR DESIGNATION

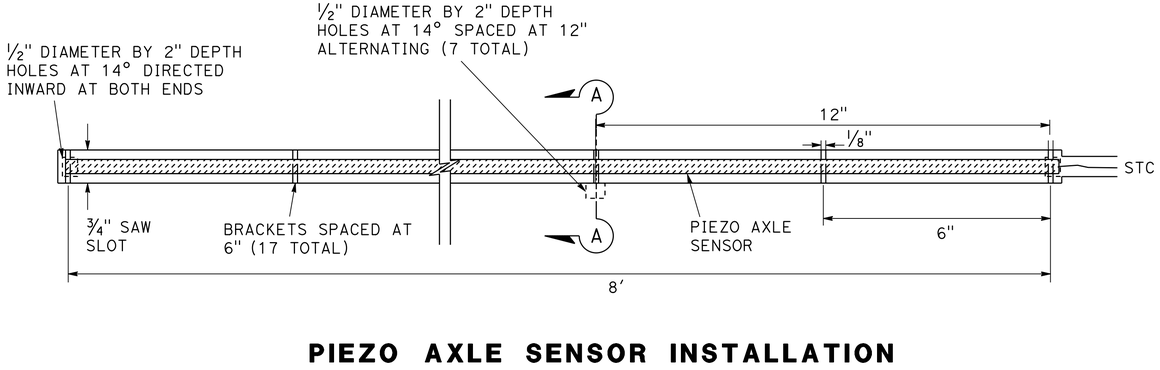
N-1-E

- DIRECTION OF TRAFFIC
  - N - NORTHBOUND , S - SOUTHBOUND
  - E - EASTBOUND , W - WESTBOUND
- E - ENTERING
  L - LEAVING
- LANE NUMBER
  - 1 - FIRST LANE FROM LEFT
  - 2 - SECOND LANE

PIEZO AXLE SENSOR DESIGNATION

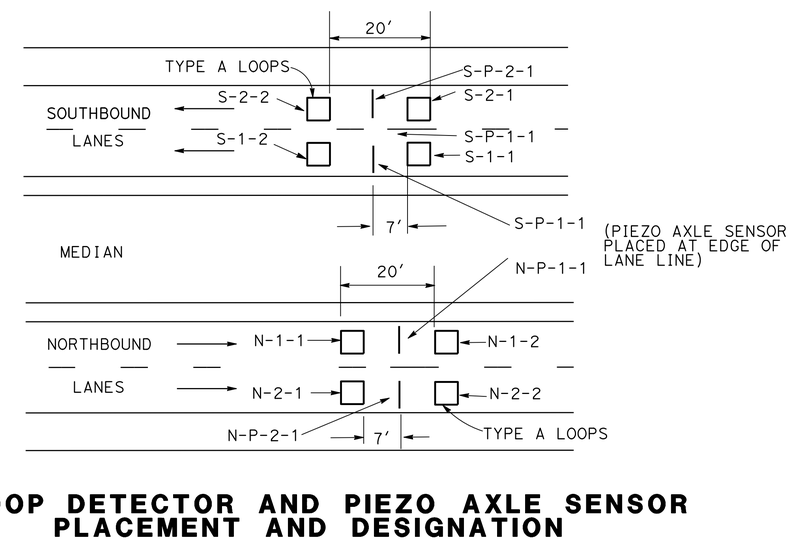
N-P-1-1

- DIRECTION OF TRAFFIC
  - N - NORTHBOUND, S - SOUTHBOUND
  - E - EASTBOUND, W - WESTBOUND
- PIEZO AXLE SENSOR
- 1 - FOR ALL PIEZO AXLE SENSORS
- LANE NUMBER
  - 1 - FIRST LANE FROM LEFT
  - 2 - SECOND LANE



PIEZO AXLE SENSOR INSTALLATION

TOP VIEW
DETAIL A



LOOP DETECTOR AND PIEZO AXLE SENSOR PLACEMENT AND DESIGNATION

DETAIL B

ELECTRICAL DETAILS

E-7

NO SCALE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: FRED IYASERE
CHECKED BY: JASPAL SINGH
REVISED BY
DATE REVISED

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REGISTERED ELECTRICAL ENGINEER DATE

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NOTE:

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

MODIFY SIGNAL

SHEET No.	TYPE A LOOP DETECTOR	TYPE D LOOP DETECTOR
	EA	
E-2	27	7
E-3	24	6
E-4	41	19

MODIFY VEHICLE CLASSIFICATION STATION

SHEET No.	PIEZO SENSOR WITH STC	TYPE A LOOP DETECTOR
	LF	EA
E-5	12	24
E-6	13	30

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ELECTRICAL QUANTITIES

NO SCALE **E-8**

REVISED BY | DATE REVISED

JASPAL SINGH | JORGE RAMIREZ

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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