Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	1	58

ACHSNHG-X085(049)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SANTA CLARA COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
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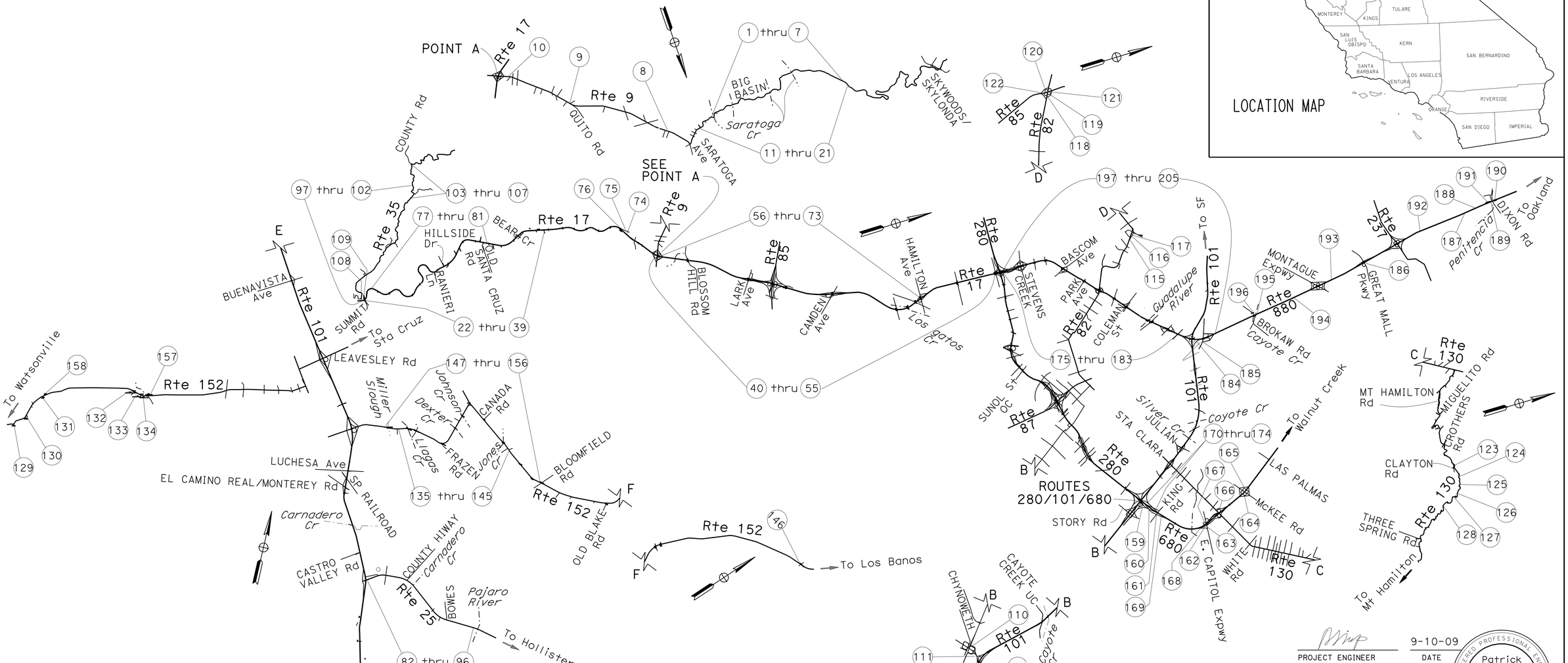
6-16	CONSTRUCTION DETAILS
17-36	CONSTRUCTION AREA SIGNS
37-43	SUMMARY OF QUANTITIES
44-58	REVISED AND NEW STANDARD PLANS

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

LOCATION MAP



NOTE:
THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

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

PROJECT MANAGER: FARIBA ZOHOURY

DESIGN ENGINEER: PATRICK YIP

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE: 9-10-09

REGISTERED PROFESSIONAL ENGINEER — Patrick Yip — No. 44277 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

November 16, 2009
PLANS APPROVAL DATE

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LAST REVISION 09-14-09 — DATE PLOTTED => 02-MAR-2010 — TIME PLOTTED => 11:16

CONTRACT No. **04-0A7824**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	2	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
1	SCI	9	3.9	NB	RIGHT SHOULDER - CURVE SEGMENT
2			4.2		RIGHT SHOULDER - CURVE SEGMENT
3			6.2		BY THE PUMP HOUSE
4			6.4		RIGHT SHOULDER - CURVE SEGMENT
5			6.6		RIGHT SHOULDER - CURVE SEGMENT
6			6.7		SARATOGA CREEK 37-78
7			6.7		SARATOGA CREEK 37-78
8			7.9		VILLA MONTALVO ENTRANCE
9			9.9		AT BLYTHSWOOD RD
10			11.3	NB	LOS GATOS CREEK 37-138
11			6.8	SB	AFTER 6TH STREET
12			6.9		BEFORE AMBRICK KNOLL RD
13			6.8		AFTER AMBRICK KNOLL RD
14			6.5		RIGHT SHOULDER - CURVE SEGMENT
15			6.4		RIGHT SHOULDER - CURVE SEGMENT
16			6.4		RIGHT SHOULDER - CURVE SEGMENT
17			5.5		AT SARATOGA CREEK 37-75
18			5.5		AT SARATOGA CREEK 37-75
19			5.0		BEFORE CAMPGROUND
20			3.6		PAST BOOKER CREEK RD
21		9	3.6	SB	BY BOOKER CREEK RD
22		17	0.1	NB	ATTACHED TO CONCRETE BARRIER PAST SUMMIT RD
23			0.6		RIGHT SHOULDER - CURVE SEGMENT
24			1.0		BEFORE JESSIE WAY
25			1.3		PAST HOLY CITY
26			1.5		BEFORE U-CURVE
27			1.8		AT THE U-CURVE
28			2.0		AT THE U-CURVE
29			2.2		AT THE END OF THE U-CURVE
30	SCI	17	2.3	NB	AT RANIERI

LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
31	SCI	17	2.5	NB	AT IDYLWILD DR
32			2.7		AT HEBARD
33			3.0		RIGHT SHOULDER - CURVE SEGMENT
34			3.5		BEFORE BEAR CREEK RD
35			3.7		ACROSS FROM BLACK RD
36			4.3		BY LEXINGTON RESERVOIR
37			4.4		BY LEXINGTON RESERVOIR
38			5.2		RIGHT SHOULDER - CURVE SEGMENT
39			5.3		RIGHT SHOULDER - CURVE SEGMENT
40			7.0		SARATOGA ON-RAMP
41			7.3		SIGN PROTECTION - LARK AVE/JUNCTION 85/CAMDEN AVE
42			8.1		SIGN PROTECTION - LARK AVE
43			9.3		ROUTE 85 ON-RAMP
44			9.4		SB 85 / LARK AVE ON RAMP (RIGHT SIDE)
45			9.4		SB 85 / LARK AVE ON-AMP (LEFT SIDE)
46			9.6		AT MOZART POC
47			9.7		SIGN PROTECTION - CAMDEN AVE/SAN TOMAS EXPWY
48			10.1		ACROSS FROM BRIDGE SIGN
49			11.4		SIGN PROTECTION - HAMILTON AVE/JUNCTION 280/STEVENS CREEK BLVD
50			12.1		SIGN PROTECTION - HAMILTON AVE
51			12.2		AT CAMPBELL UP
52			12.3		AT HAMILTON AVE OC
53			12.4		BETWEEN HAMILTON AND WESTFIELD
54			13.3		BETWEEN WESTFIELD AND ROUTE 280
55			13.4	NB	BRIDGE SIGN PROTECTION
56			13.5	SB	BEFORE HAMILTON AVE OFF-RAMP
57			12.3		HAMILTON OC
58			12.1		LOS GATOS CREEK BRIDGE
59			11.8		BETWEEN LOS GATOS CREEK AND CAMPBELL UC
60	SCI	17	11.7	SB	SIGN PROTECTION - CAMPBELL AVE/SAN TOMAS EXPW

LOCATIONS OF CONSTRUCTION

LC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-14-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	3	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
61	SCI	17	10.6	SB	BEFORE CAMDEN OFF-RAMP
62			10.6		SIGN PROTECTION - JUNCTION 85/LARK AVE/JUNCTION 9
63			9.8		SIGN PROTECTION - ROUTE 85/MOUNTAIN VIEW/GILROY
64			9.7		SIGN PROTECTION - ROUTE 85/MOUNTAIN VIEW/GILROY
65			9.6		OFF-RAMP TO ROUTE 85
66			9.3		ROUTE 85/17 SEPARATION
67			9.2		NB ROUTE 85 TO SB ROUTE 17 LOOP RAMP
68			9.0		SIGN PROTECTION - LARK AVENUE
69			8.9		LARK AVE ON-RAMP TO SB ROUTE 17
70			8.1		BETWEEN LARK AVE AND BLOSSOM HILL RD
71			7.7		BLOSSOM HILL RD OC
72			7.3		BETWEEN BLOSSOM HILL RD AND SARATOGA AVE
73			7.1		SARATOGA AVE ON-RAMP
74			6.7		BEFORE LOS GATOS POC
75			6.2		AT SANTA CRUZ AVE UC
76			6.2		CMS PROTECTION AT SANTA CRUZ AVE ON-RAMP
77			3.5		BETWEEN BEAR CREEK AND ALMA RD
78			3.2		PAST ALMA/ COLLEGE RD
79			2.0		CURVE SEGMENT - AFTER BRUSH RD
80			1.8		END OF U-CURVE
81		17	1.3	SB	MADRONE DR
82		25	0.0	EB	PAJARO RIVER BRIDGE
83			0.0	EB	PAJARO RIVER BRIDGE
84			0.0	WB	PAJARO RIVER BRIDGE
85			0.0	WB	PAJARO RIVER BRIDGE
86			0.5	EB	BEFORE UESEGUI FARM
87			0.6	EB	BEFORE Z-BEST FARM
88			1.5	WB	CARNADERO CREEK BRIDGE
89			1.5	WB	CARNADERO CREEK BRIDGE
90	SCI	25	1.5	EB	CARNADERO CREEK BRIDGE

LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
91	SCI	25	1.5	EB	CARNADERO CREEK BRIDGE
92			2.1	WB	GX-MILLER RAILROAD CROSSING
93			2.5	WB	JUNCTION ROUTE 101/25 BRIDGE
94			2.5	WB	JUNCTION ROUTE 101/25 BRIDGE
95			2.5	EB	JUNCTION ROUTE 101/25 BRIDGE
96		25	2.5	EB	JUNCTION ROUTE 101/25 BRIDGE
97		35	0.0	NB	ROUTE 17/35 SEPARATION
98			0.3		CURVE SEGMENT
99			5.6		CURVE SEGMENT BEFORE THOMPSON RD
100			5.7		CONCRETE BARRIER TO CONCRETE BARRIER
101			5.7		AFTER CONCRETER BARRIER
102			5.8	NB	CURVE SEGMENT
103			5.8	SB	AFTER CONCRETER BARRIER
104			4.5		CURVE SEGMENT
105			4.5		AFTER CONCRETER BARRIER
106			4.4		CURVE SEGMENT
107			3.5		CURVE SEGMENT
108			0.4		CURVE SEGMENT
109		35	0.0	SB	SB ROUTE 17 OFF-RAMP
110		82	0.3	NB	NB ROUTE 82 TO WB BLOSSOM HILL RD LOOP RAMP
111			0.2	NB	EB BLOSSOM HILL RD TO ROUTE 101 ON-RAMP
112			0.2	SB	EB BLOSSOM HILL OC (RIGHT SIDE)
113			0.2	SB	EB BLOSSOM HILL OC (LEFT SIDE)
114			0.2	NB	WB BLOSSOM HILL RD (LEFT SIDE)
114A			0.2	NB	WB BLOSSOM HILL RD (RIGHT SIDE)
115			11.2		DELA CRUZ OFF-RAMP
116			11.2		DELA CRUZ OFF-RAMP (RIGHT SIDE)
117			11.2		DELA CRUZ OFF-RAMP (LEFT SIDE
118			18.8		DIAGONAL RAMP
119			18.8	NB	LOOP RAMP
120	SCI	82	18.8	SB	LOOP RAMP

LOCATIONS OF CONSTRUCTION

LC-2

REVISED BY | DATE REVISED
JAY RADOC | PATRICK YIP
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: GEORGE LO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION 08-28-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	4	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
121	SCI	82	18.8	NB	LOOP RAMP
122		82	18.8	SB	LOOP RAMP
123		130	6.1	EB	AT CLAYTON RD
124			6.3		BEFORE PRIVATE DRIVEWAY
125			6.4		AFTER PRIVATE DRIVEWAY
126			6.8		CURVE SEGMENT
127			7.0		CURVE SEGMENT
128		130	7.5	EB	CURVE SEGMENT
129		152	3.3	EB	CURVE SEGMENT
130			3.8		CURVE SEGMENT
131			4.3		AT THE HEADWALL
132			6.1		AT BODFISH CREEK BRIDGE 37-46
133			6.3		WEST OF BONFANTE PARK ENTRANCE
134			6.4		EAST OF BONFANTE PARK ENTRANCE
135			11.2		AT LLAGAS CREEK 37-402
136			11.2		AT LLAGAS CREEK 37-402
137			11.9		FRAZER RD (SW SEGMENT)
138			11.9		FRAZER RD (SE SEGMENT)
139			12.3		DEXTER CREEK 37-25
140			12.6		JOHNSON CREEK 37-26
141			12.6		JOHNSON CREEK 37-26
142			13.3		CANADA RD
143			13.8		JONES CREEK 37-27
144			13.8		JONES CREEK 37-27
145			14.4	EB	PRUNEDALE AVE
146			14.9	WB	BLOOMFIELD RD
147			14.4		PRUNEDALE AVE
148			13.8		JONES CREEK 37-27
149			13.8		JONES CREEK 37-27
150	SCI	152	12.6	WB	JOHNSON CREEK 37-26

LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
151	SCI	152	12.6	WB	JOHNSON CREEK 37-26
152			12.3		DEXTER CREEK 37-25
153			11.3		LLAGAS CREEK 37-24
154			11.3		LLAGAS CREEK 37-24
155			11.2		LLAGAS CREEK 37-402
156			11.2		LLAGAS CREEK 37-402
157			6.1		BODFISH CREEK 37-46
158		152	6.1	WB	AT THE HEADWALL
159		680	0.2	NB	SIGN PROTECTION - JACKSON AVE/KING RD
160			0.4		PARK SERVICE RD UC 337-354 QR
161			0.4		SB ROUTE 101 TO NB ROUTE 680 RAMP
162			1.1		SIGN PROTECTION - ALUM ROCK/CAPITOL EXPWY
163			1.3		SIGN PROTECTION - MCKEE RD/ALUM ROCK
164			1.4		OFF-RAMP TO ROUTE 130
165			M2.4	NB	MCKEE RD ON-RAMP
166			M2.4	SB	OFF-RAMP TO MCKEE RD
167			M1.7		ALUM ROCK ON-RAMP
168			1.41		CAPITOL EXPWY LOOP RAMP TO WB ROUTE 680
169			M1.3		JACKSON AVE UC 37-287
170			0.4		SIGN PROTECTION - LOS ANGELES/SAN FRANCISCO
171			M0.5		KING RD UC 37-286
172			M0.3		ROUTE 101 OFF-RAMP
173			M0.2		KING RD ON-RAMP
174		680	M0.0	SB	ROUTE 101 UC
175		880	0.1	NB	COLUMN PROTECTION
176			0.1		CAMERA POLE AND ELECTRICAL CABINET PROTECTION
177			0.7		FORREST AVE UC 37-173
178			1.3		BASCOM AVE UC 37-126
179			2.1		ROUTE 82/880
180	SCI	880	3.2	NB	GUADALUPE RIVER BRIDGE 37-176

LOCATIONS OF CONSTRUCTION

LC-3

REVISED BY | DATE REVISED
JAY RADOC | PATRICK YIP
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	5	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
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REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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LOCATION OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DIRECTION	DESCRIPTION
181	SCI	880	3.2	NB	NORTH FIRST STREET UC 37-140
182			3.6		NORTH FOURTH STREET UC 37-141
183			3.8		SIGN PROTECTION - ROUTE 101/LOS ANGELES/SAN FRANCISCO
184			3.9		ROUTE 101 LOOP ON-RAMP
185			4.1		OLD BAYSHORE UC 37-120
186			4.3		GREAT MALL PARKWAY OC 37-426
187			7.7		SIGN PROTECTION - DIXON LANDING RD
188			9.7		SIGN PROTECTION- DIXON LANDING RD/MISSION BLVD
189			10.0	NB	SIGN PROTECTION - DIXON LANDING RD OFF-RAMP
190			9.3	SB	SIGN PROTECTION - MOUNTAIN VIEW/ROUTE 237 WEST
191			8.7		SIGN PROTECTION - CALAVERAS BLVD/MCCARTHY BLVD/MTN VIEW
192			7.3		SIGN PROTECTION - MONTAGUE EXPWY
193			7.0		SIGN PROTECTION MONTAGUE EXPWY
194			6.2		SIGN PROTECTION - BROKAW RD/JUNCTION 101 NORTH/SOUTH
195			5.5		COYOTE CREEK BR 37-65/CMS
196			5.1		CONNECTED TO CONCRETE BARRIER
197			4.5		OLD BAYSHORE OFF-RAMP
198			4.3		OLD BAYSHORE ON-RAMP
199			4.1		ROUTE 101 ON-RAMP
200			3.6		NORTH FIRST ST ON-RAMP
201			2.7		BEFORE COLEMAN AVE
202			1.3		SIGN PROTECTION - BASCOM AVE/STEVENS CREEK BLVD
203			0.9		BASCOM AVE ON-RAMP
204			0.2		NB ROUTE 280 OFF-RAMP
205	SCI	880	0.1	SB	BEFORE ROUTES 280/880 IC

REVISED BY | DATE REVISED

JAY RADOC | PATRICK YIP

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: GEORGE LO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

LOCATIONS OF CONSTRUCTION

LC-4

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	6	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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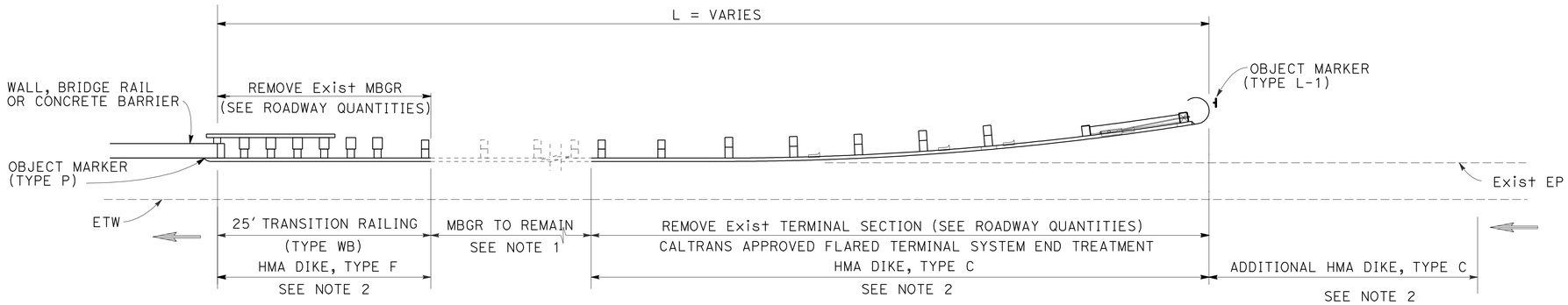


DETAIL 1

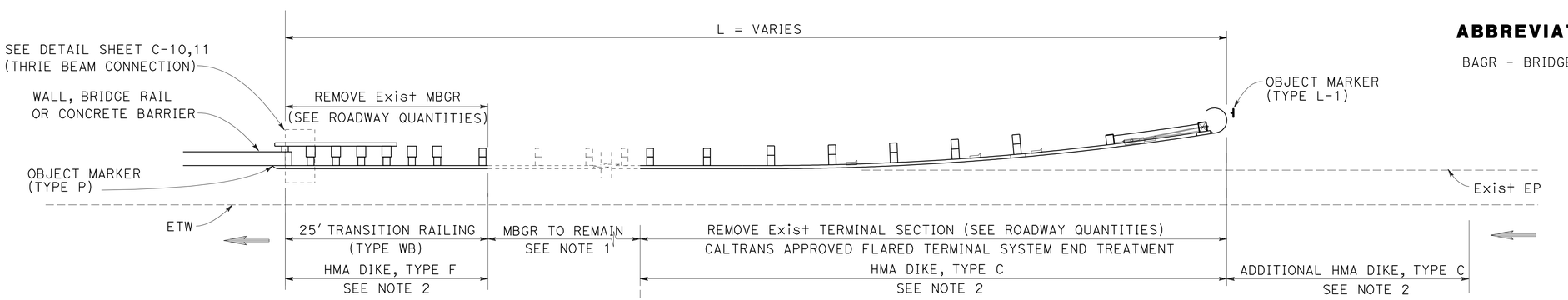
LOCATION No. 10,22,24,34,35,39,42,43,44,45,65,66,67,81,82,84,88,90,93,95,,99,102,104,111,112,113,114,114A,116 117,135,136,140,143,148,150,153,155,172,177,178,180,181,182,184,185,195,196,197,198,199 200,201,203

NOTES:

1. MBGR TO REMAIN IS "L" MINUS REMOVE MBGR IN QUANTITY SHEETS FOR EACH DETAIL AND LOCATION.
2. REMOVE EXISTING AC DIKES AND PLACE HMA DIKES WITH INDICATED TYPES. SEE Q-SHEETS FOR LOCATIONS.
3. MBGR POST MILE LOCATION ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
4. EXACT LOCATION OF MBGR POST AFFECTED BY UTILITIES TO BE DETERMINED BY THE ENGINEER.
5. SEE QUANTITY SHEETS FOR LOCATION DESCRIPTION.
6. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

ABBREVIATION:

BAGR - BRIDGE APPROACH GUARD RAILING



DETAIL 2

LOCATION No. 6,40,46,48,51,52,56,57,58,68,69,71,73,74,75,97,109,160,162,164,169,171,173,174,179

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-14-09
DATE PLOTTED => 23-NOV-2009
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	7	58

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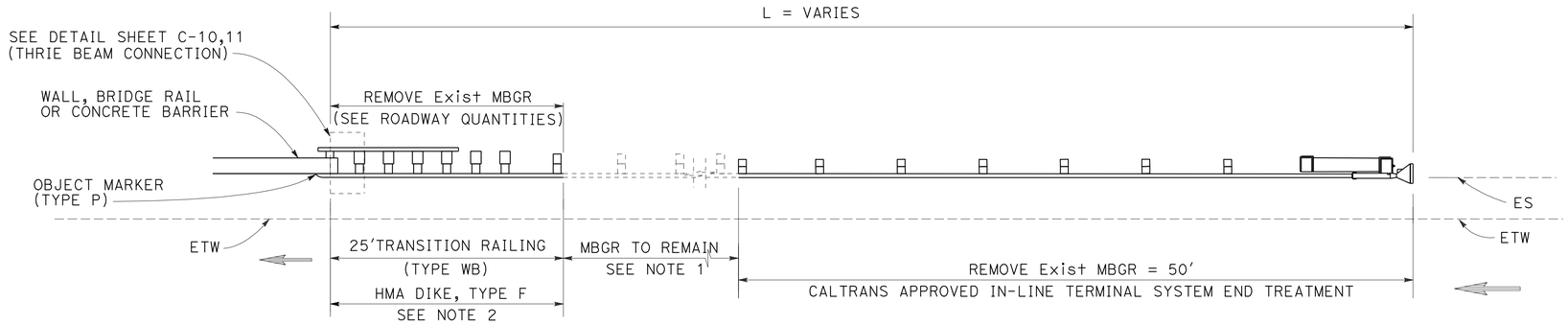
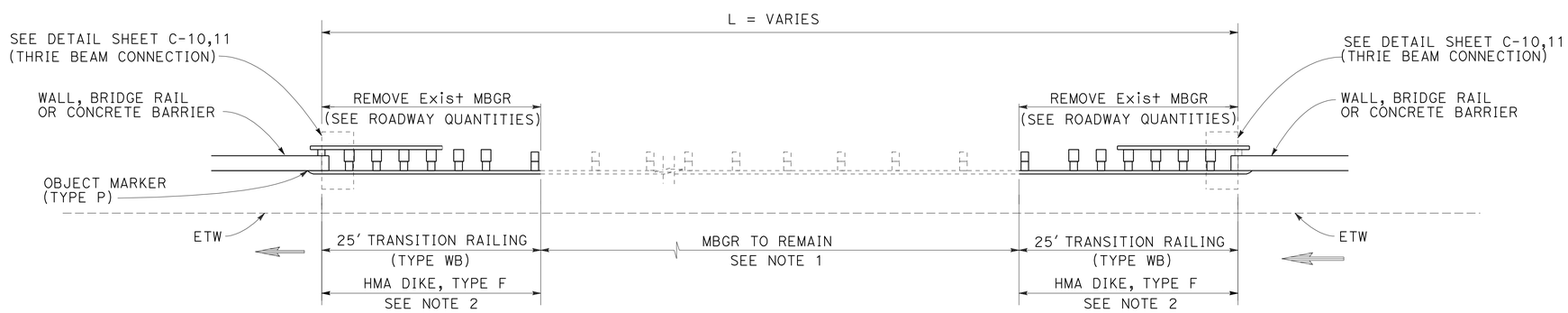


DETAIL 3

LOCATION No. 20,110,119,120



DETAIL 4

LOCATION No. 59,94,98,100,161

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
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04	SCI	Var	Var	8	58

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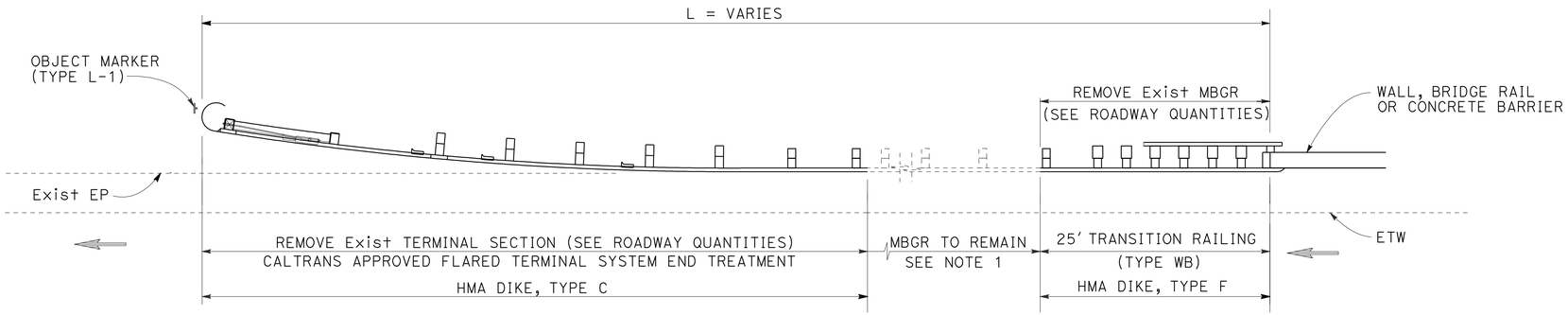
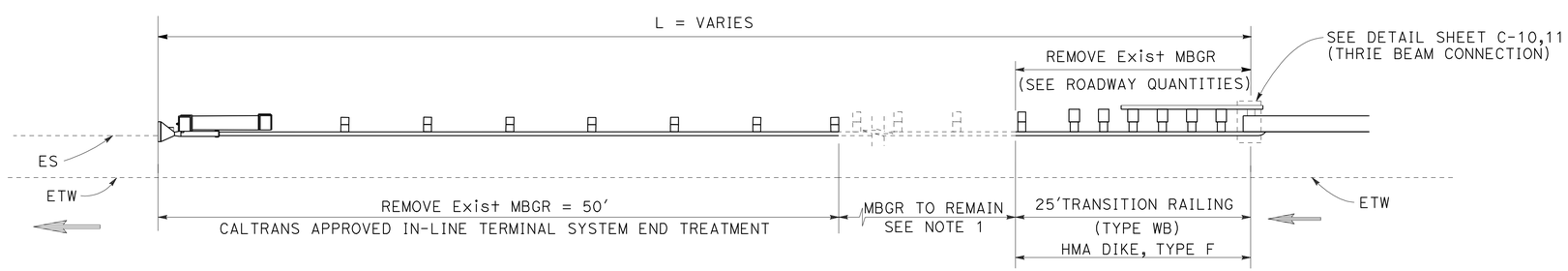


DETAIL 5

LOCATION No. 7,18,83,,85,89,91,101,103,105,141,144,149,151,154,156



DETAIL 6

LOCATION No. 21

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-14-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	9	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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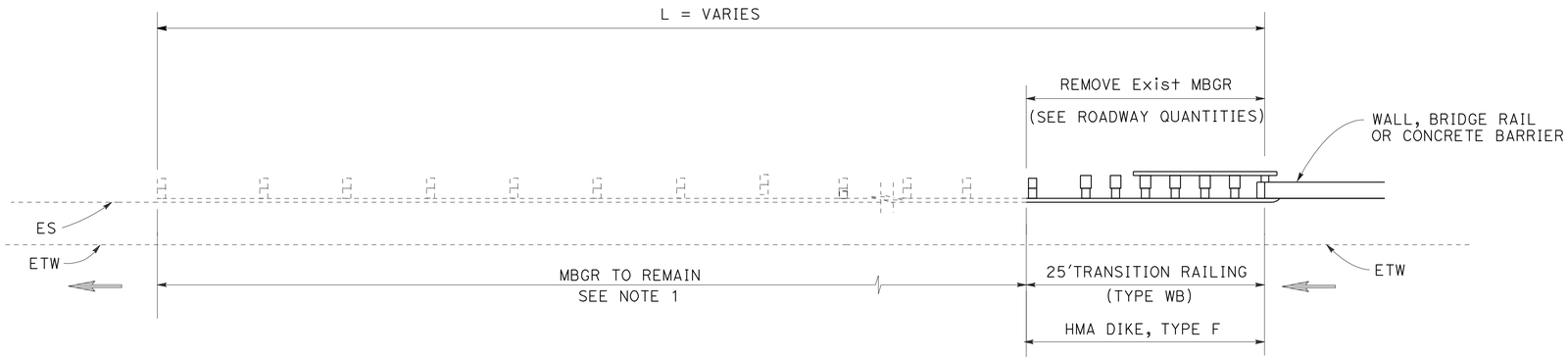
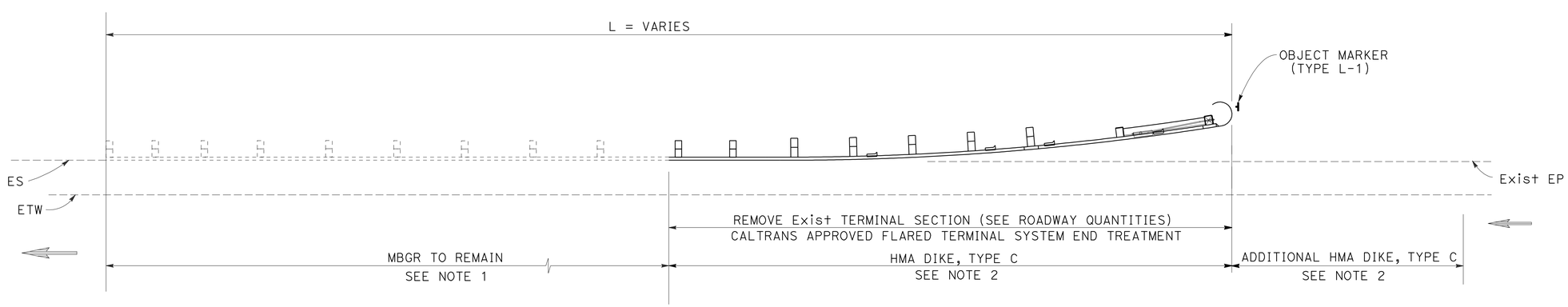


DETAIL 7

LOCATION No. 96



DETAIL 8

LOCATION No. 9,12,13,14,15,16,19,23,25,26,27,28,29,30,33,36,37,38,53,60,70,72,77,78,79,80,118,137,138,142
165,166,167,168

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	10	58

REGISTERED CIVIL ENGINEER DATE 09-10-09

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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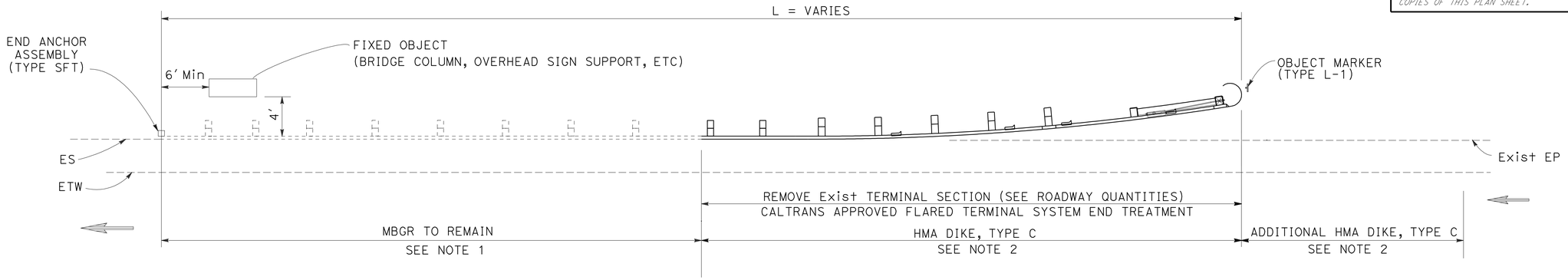
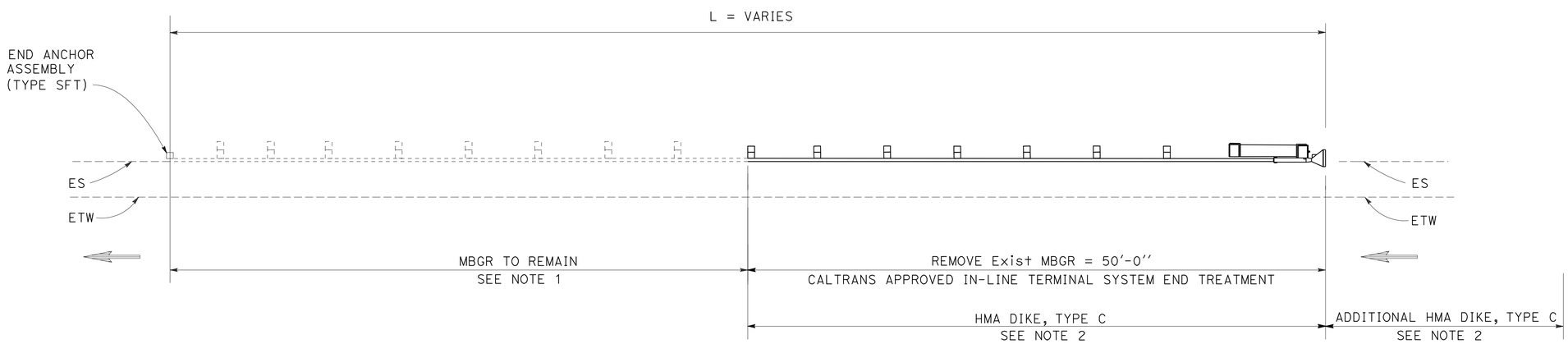


DETAIL 9

LOCATION No. 41,47,49,50,54,55,62,63,64,76,115,159,163,170,175,176,183,186,187,188,189,190,191,192,193 194,202,204,205



DETAIL 10

LOCATION No. 31,32,61,121,122

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION 09-15-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	11	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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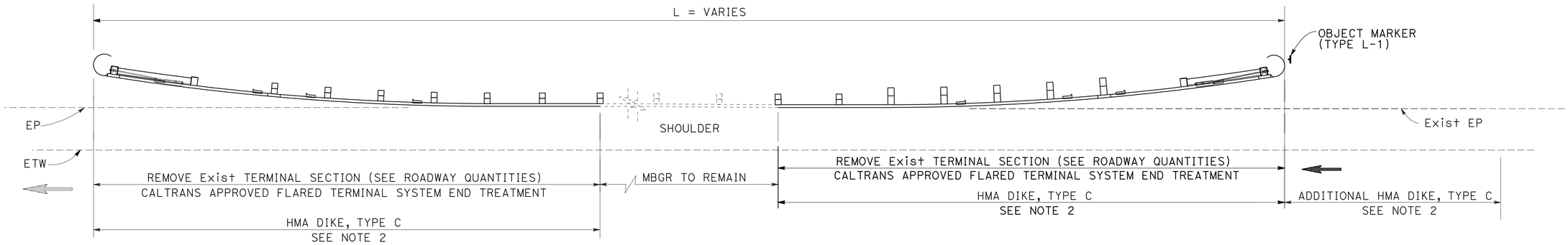
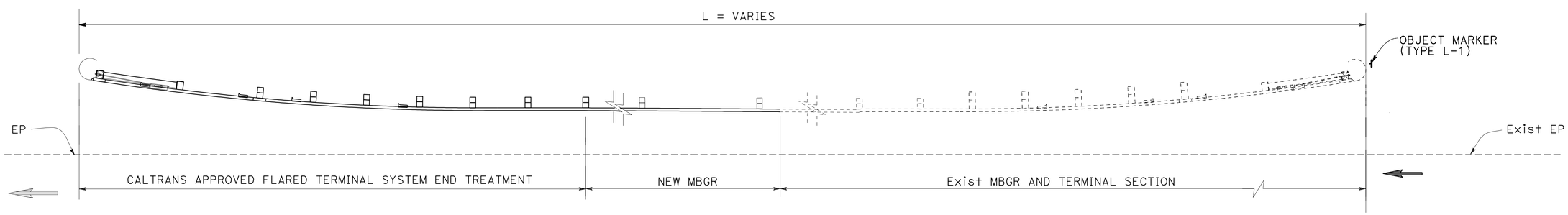


DETAIL 11

LOCATION No. 3,4,5,8,11,92,106,107,108,129,130,131,132,133,134,139,145,146,147,152,157,158



DETAIL 12

LOCATION No. 86

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	12	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

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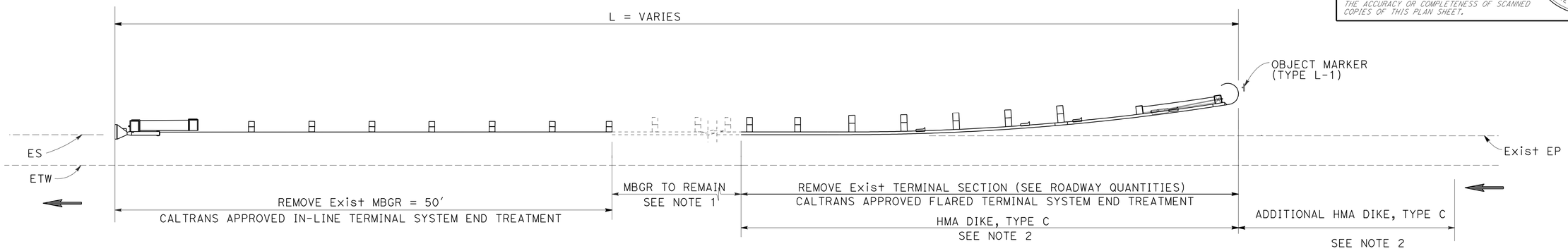
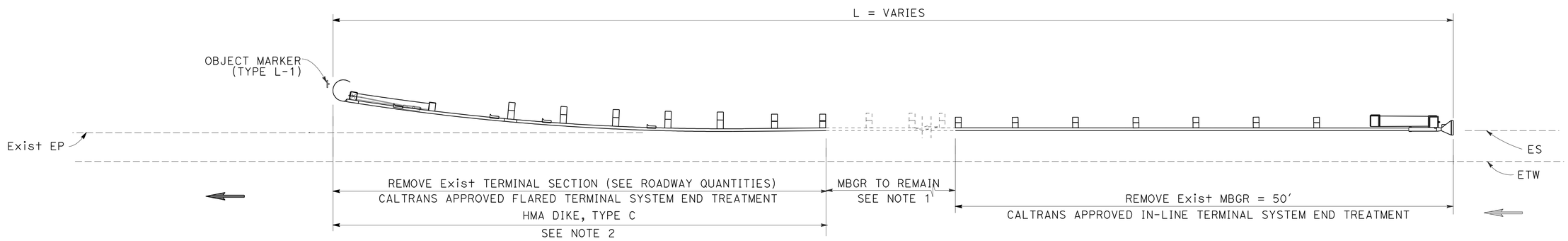


DETAIL 13

LOCATION No. 124,128



DETAIL 14

LOCATION No. 123

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	13	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Patrick Yip
No. 44277
Exp 6-30-11
CIVIL
STATE OF CALIFORNIA

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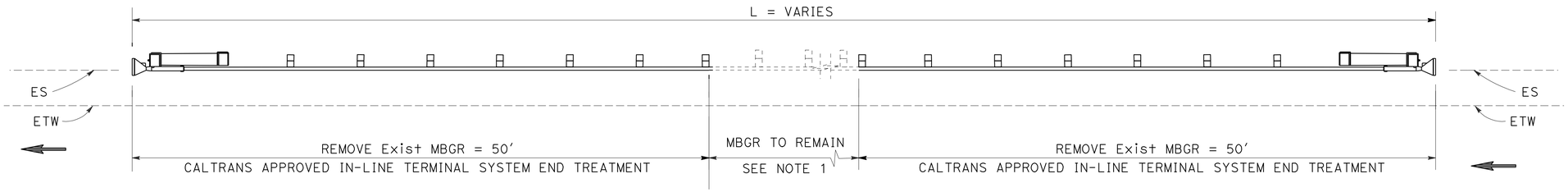
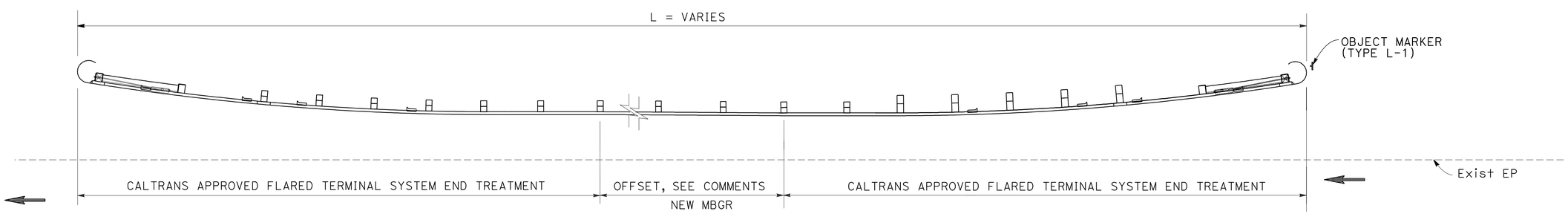


DETAIL 15

LOCATION No. 125,126,127



DETAIL 16

LOCATION No. 87

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-8

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	14	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

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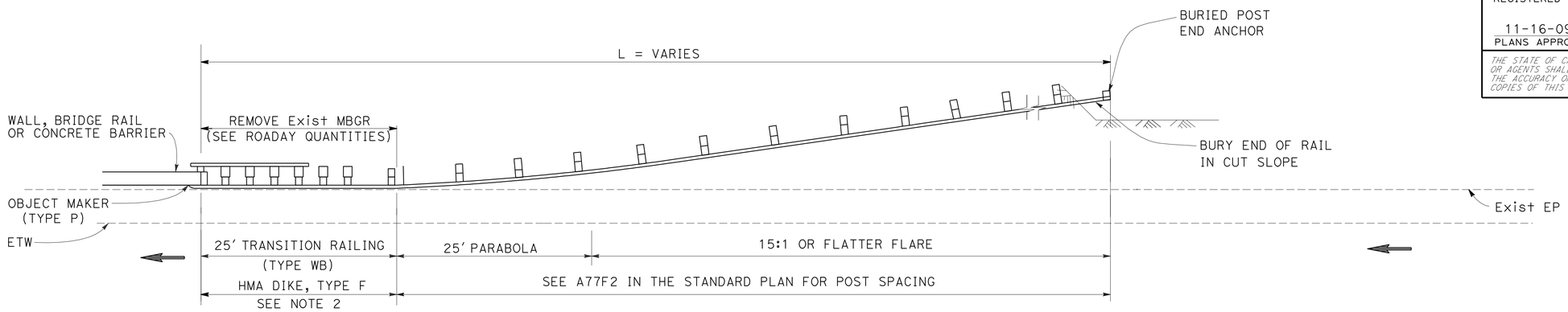
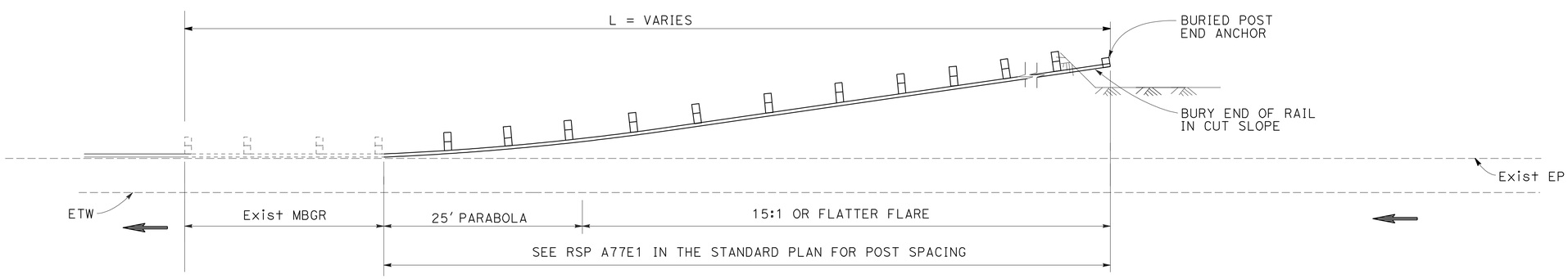


DETAIL 17

LOCATION No. 17



DETAIL 18

LOCATION No. 1,2

CONSTRUCTION DETAILS

NO SCALE

C-9

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	15	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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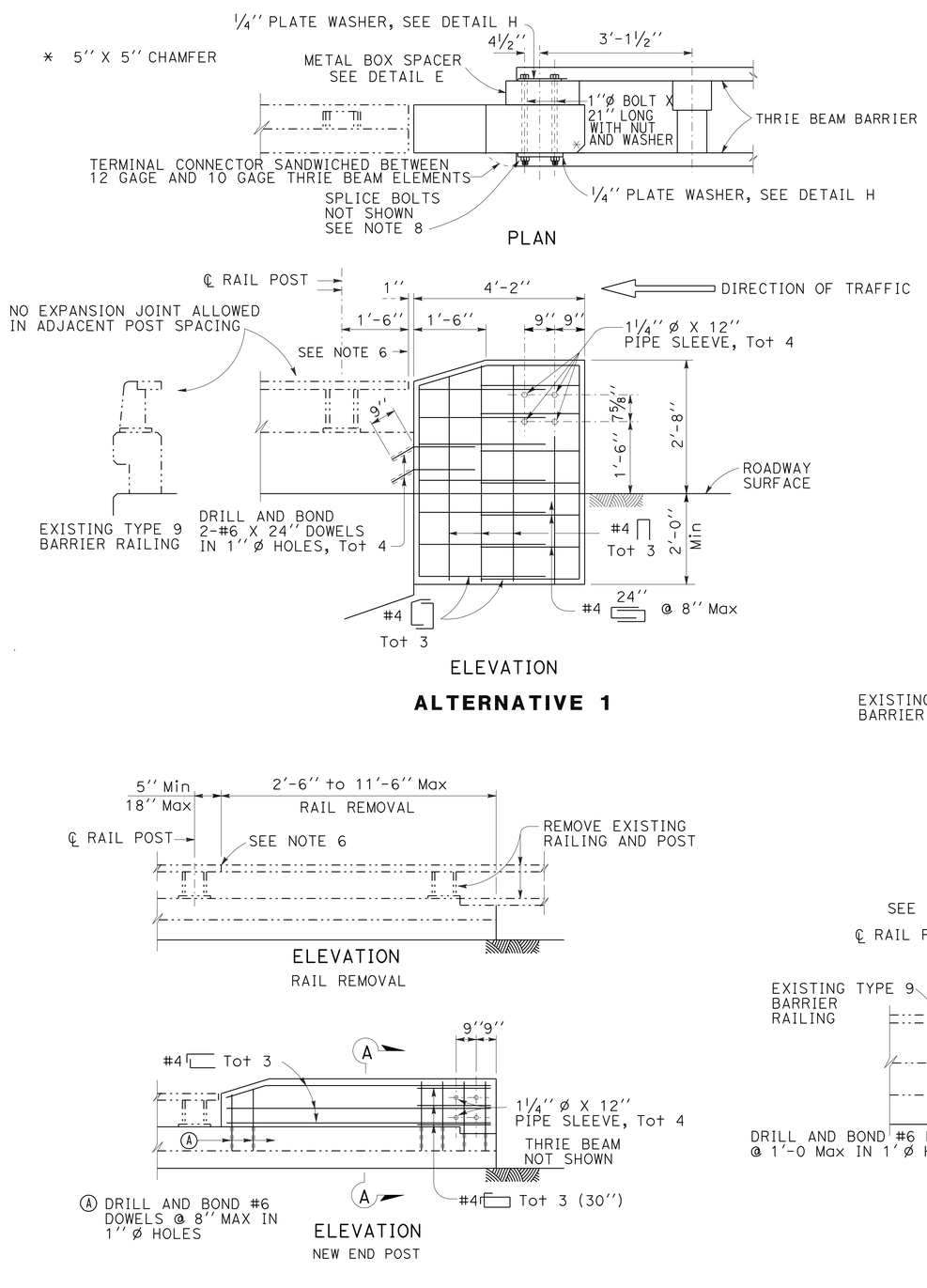

NOTES:

1. FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.
2. DEPENDENT DIMENSIONS WILL BE VERIFIED IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING PAVED CONDITIONS.
3. WHEN END SECTION IS CALLED FOR, MODIFY TYPICAL TERMINAL SECTION TO FIT. SEE DETAIL A SHEET C-11
4. FOR THRIE BEAM CONNECTION, SEE STANDARD PLANS ''THRIE BEAM BARRIER CONNECTIONS TO BRIDGE RAILING''.
5. ALL PLATES AND BOLTS ARE GALVANIZED.
6. CUT AND REMOVE THAT PORTION OF EXISTING BARRIER RAILING TYPE 9, 9-11 AND BAR AS REQUIRED.
7. IF RAIL IS NOT CONTINUOUS OVER 2 POSTS, USE SPLICE AT EXPANSION JOINT.
8. EXTERIOR SPLICE BOLT HOLES SHALL BE THE STANDARD 7/8'' X 1 1/8'' SLOT SIZE FOR RAIL SPLICES AT POST # T4 AND THE CONNECTION TO THE CONCRETE BARRIER OR RAILING. INTERIOR SPLICE BOLT HOLES MAY BE INCREASED UP TO 1 1/8'' DIA. WASHERS SHALL BE USED WITH SPLICE BOLTS ON BACK SIDE OF RAIL ELEMENT AT POST # T4 AND CONNECTION TO THE CONCRETE BARRIER OR RAILING.
9. TAPER THE TOP OF THE END OF THE BRIDGE RAILING AT 4:1 TO MATCH THE TOP ELEVATION OF THE THRIE BEAM RAIL ELEMENT.

EXISTING BARRIER RAILING TYPE 9

CONSTRUCTION DETAILS

NO SCALE

C-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DATE REVISED

LAST REVISION 09-16-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	16	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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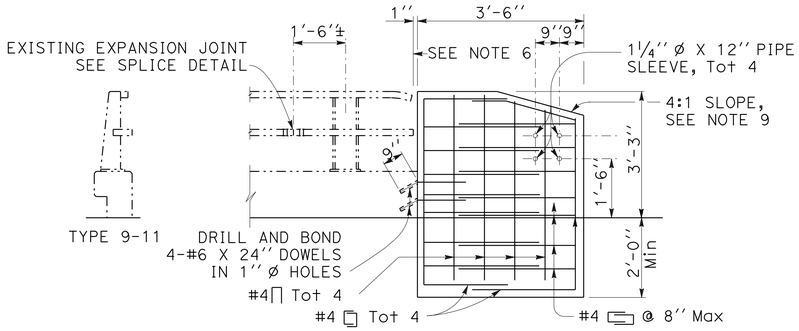
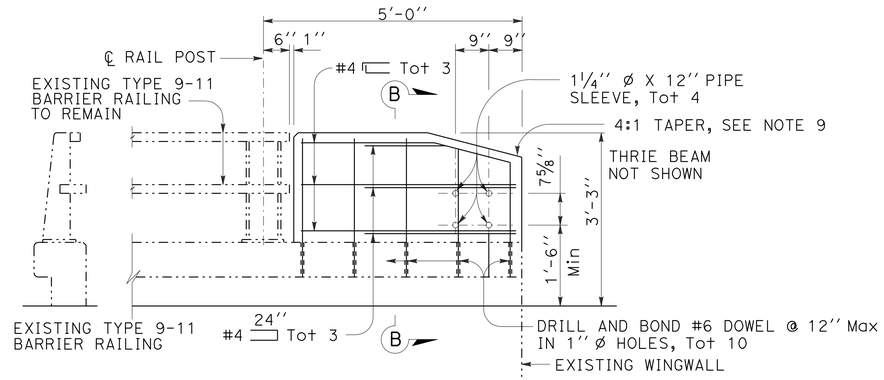
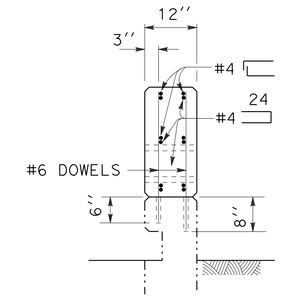


ELEVATION

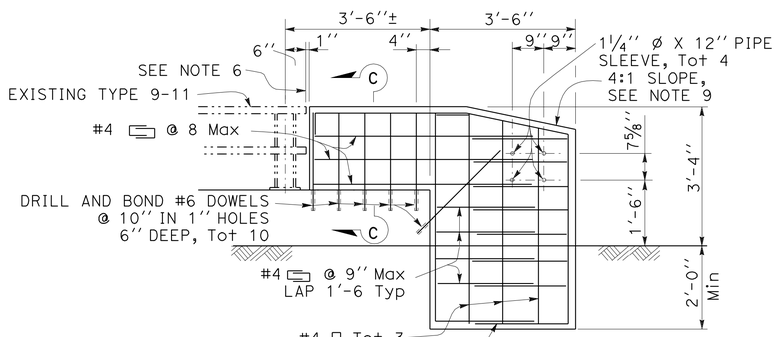
ALTERNATIVE 1



ALTERNATIVE 2

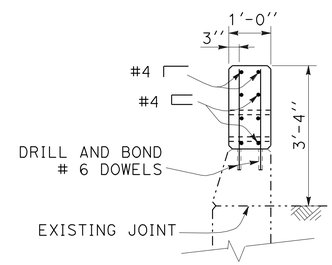


SECTION B-B



ELEVATION

ALTERNATIVE 3



SECTION C-C

EXISTING BARRIER RAILING TYPE 9-11

SPLICE PLATE **MODIFIED TUBE**

RAIL SPLICE DETAIL

SEE NOTE 7

DETAIL A

SECTION A-A

DETAIL B

CONSTRUCTION DETAILS

NO SCALE

C-11

REVISED BY	DATE REVISED

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CHECKED BY: PATRICK YIP
FUNCTIONAL SUPERVISOR: GEORGE LO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	17	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jerilyn L. Struven
No. 49964
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

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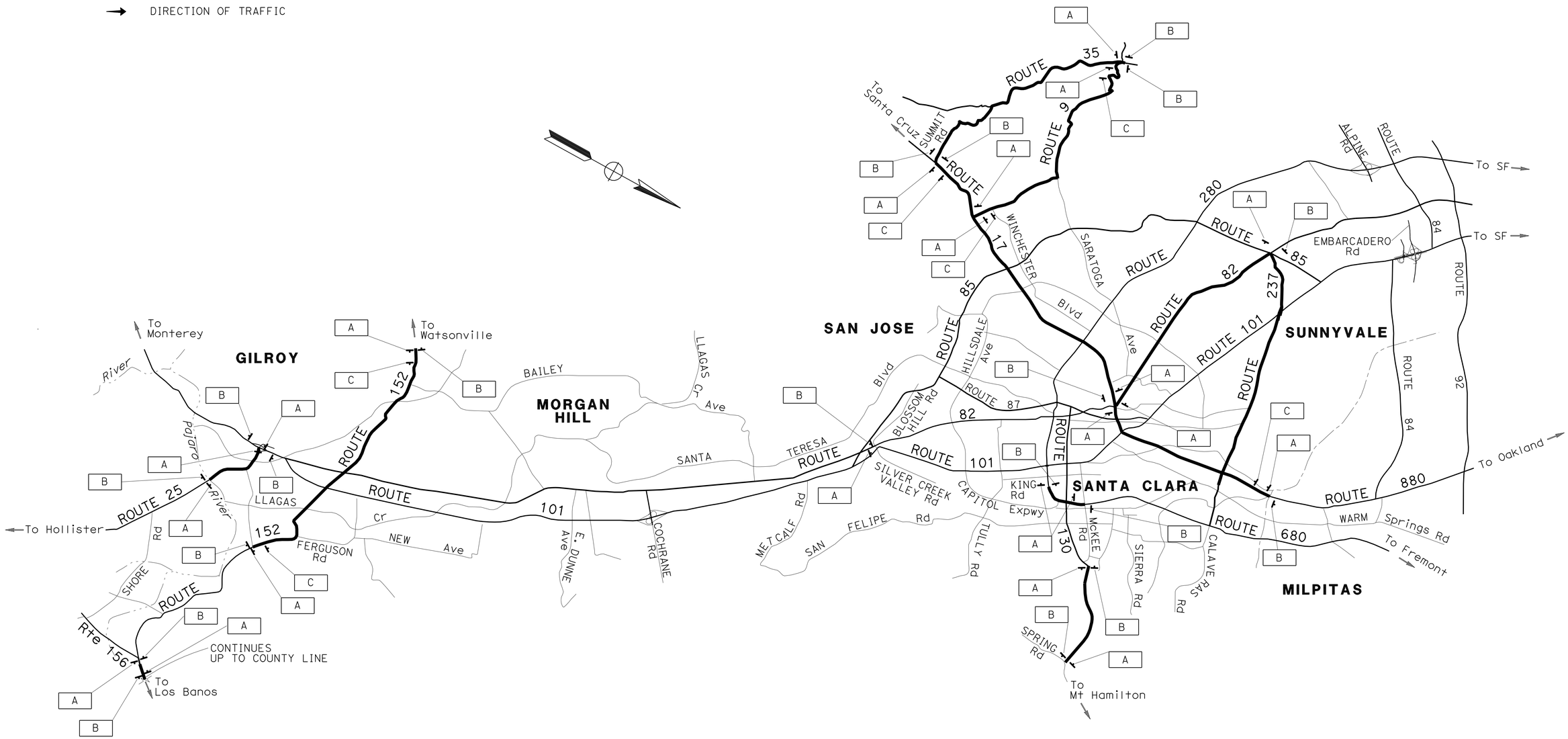
NOTE:

DETOUR PLANS No. 9 AND 21 NOT USED.

LEGEND:

A — CONSTRUCTION AREA SIGN

→ DIRECTION OF TRAFFIC



CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-15-09
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	18	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
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REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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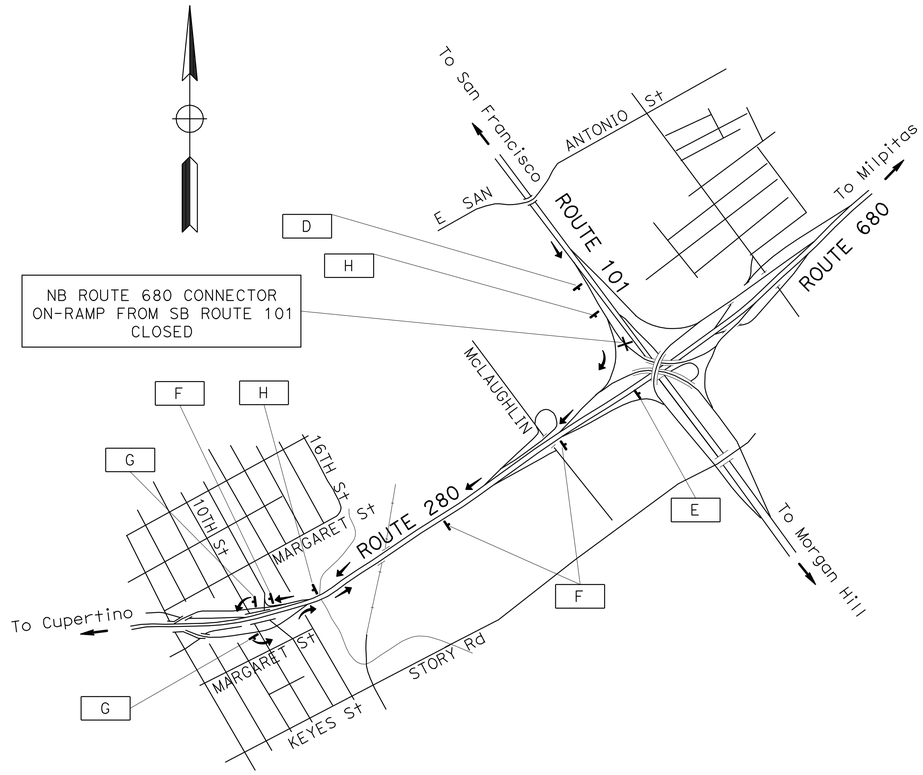
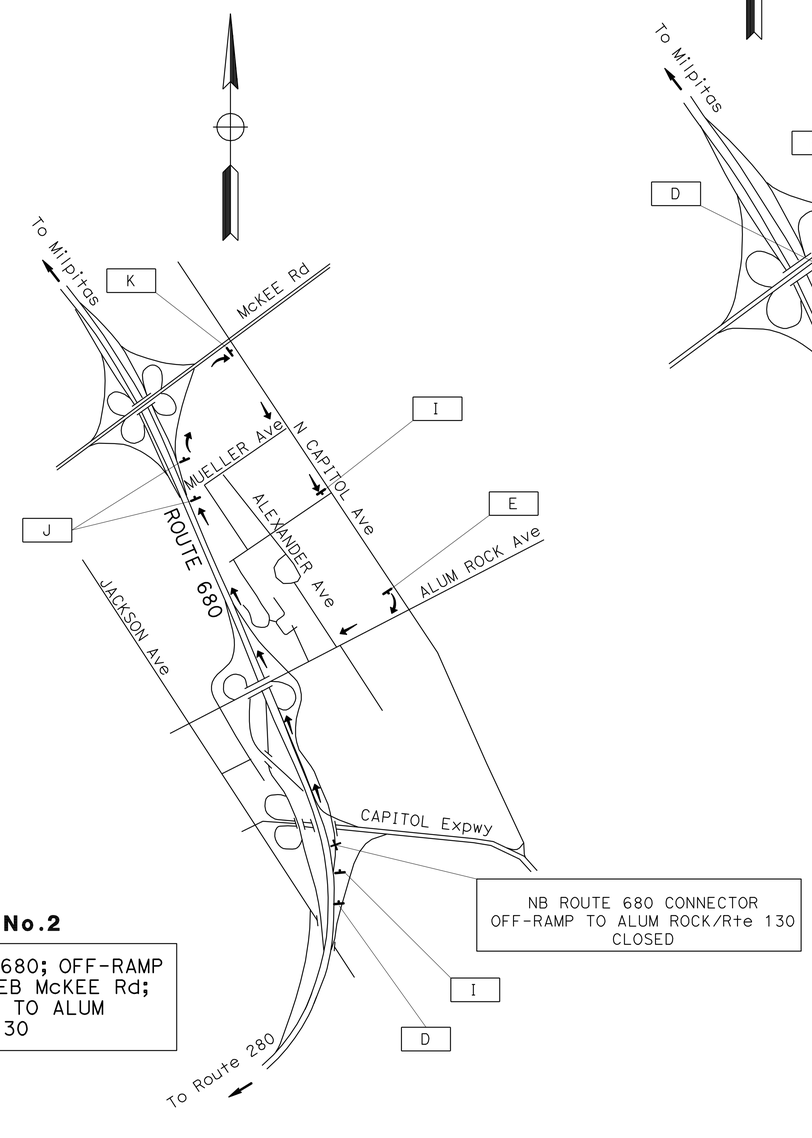


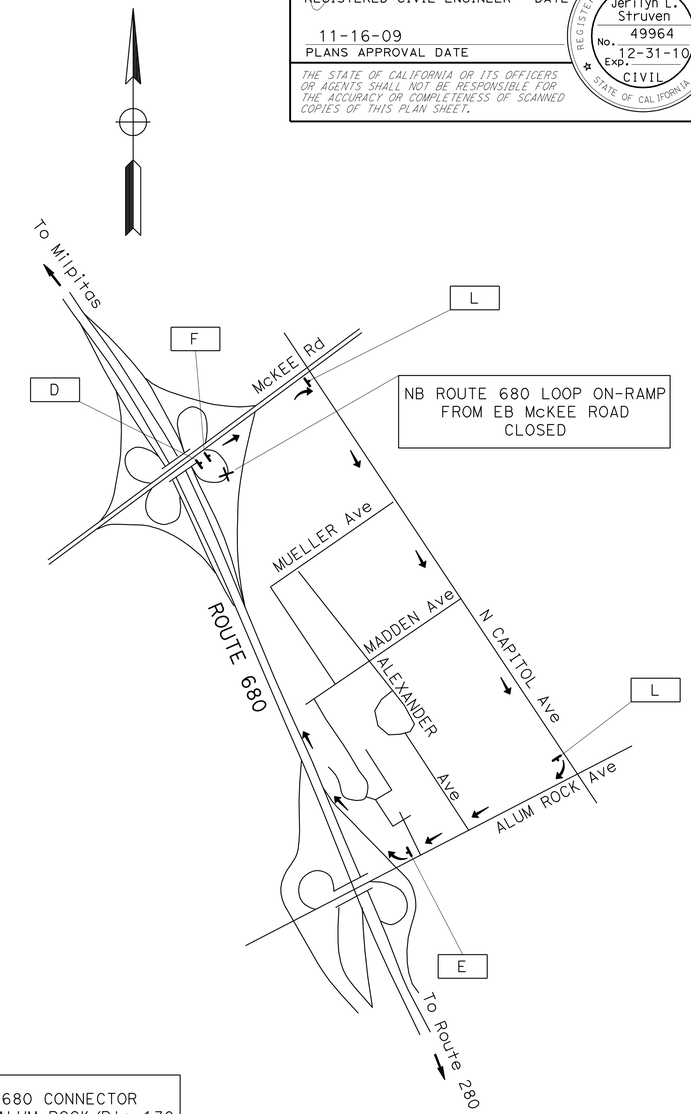
DETOUR PLAN No.1

DETOUR → VIA SB ROUTE 101; CONNECTOR OFF-RAMP TO NB ROUTE 280; NB ROUTE 280; OFF-RAMP TO S 10TH St; SB S 10TH St; ON-RAMP TO SB ROUTE 280/NB ROUTE 680



DETOUR PLAN No.2

DETOUR → VIA NB ROUTE 680; OFF-RAMP TO EB McKEE Rd; EB McKEE Rd; SB N CAPITOL Ave TO ALUM ROCK Ave/ROUTE 130



DETOUR PLAN No.3

DETOUR → VIA EB McKEE Rd; SB N CAPITOL Ave; WB ALUM ROCK Ave TO NB ROUTE 680 ON-RAMP

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	19	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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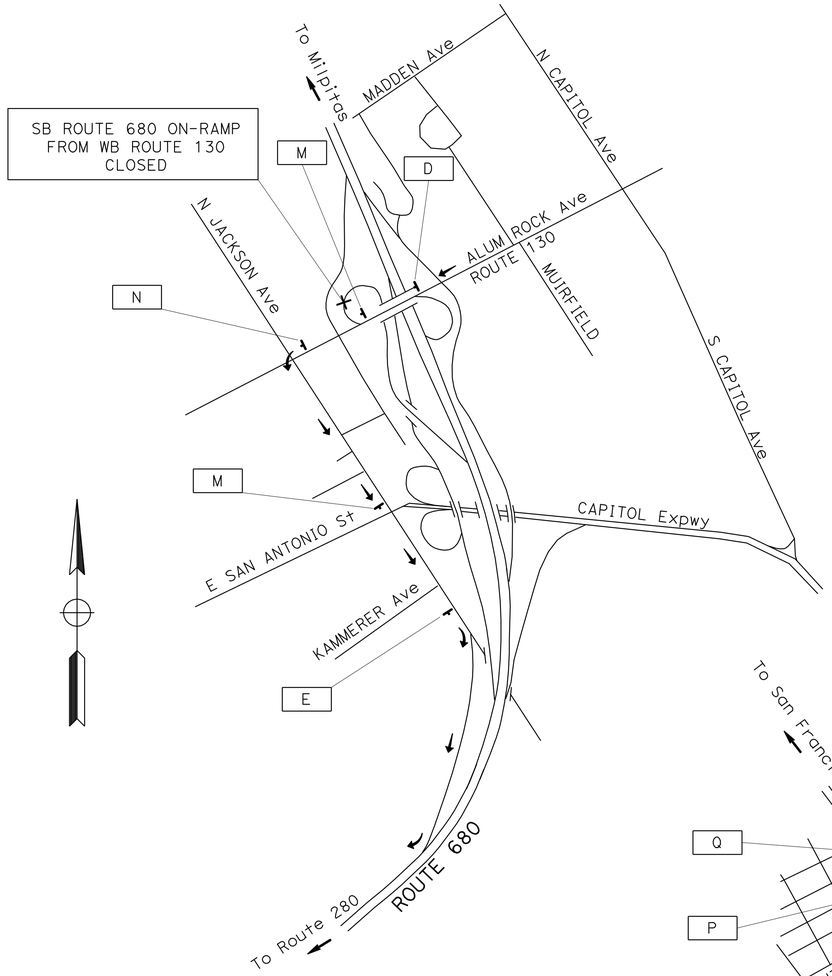
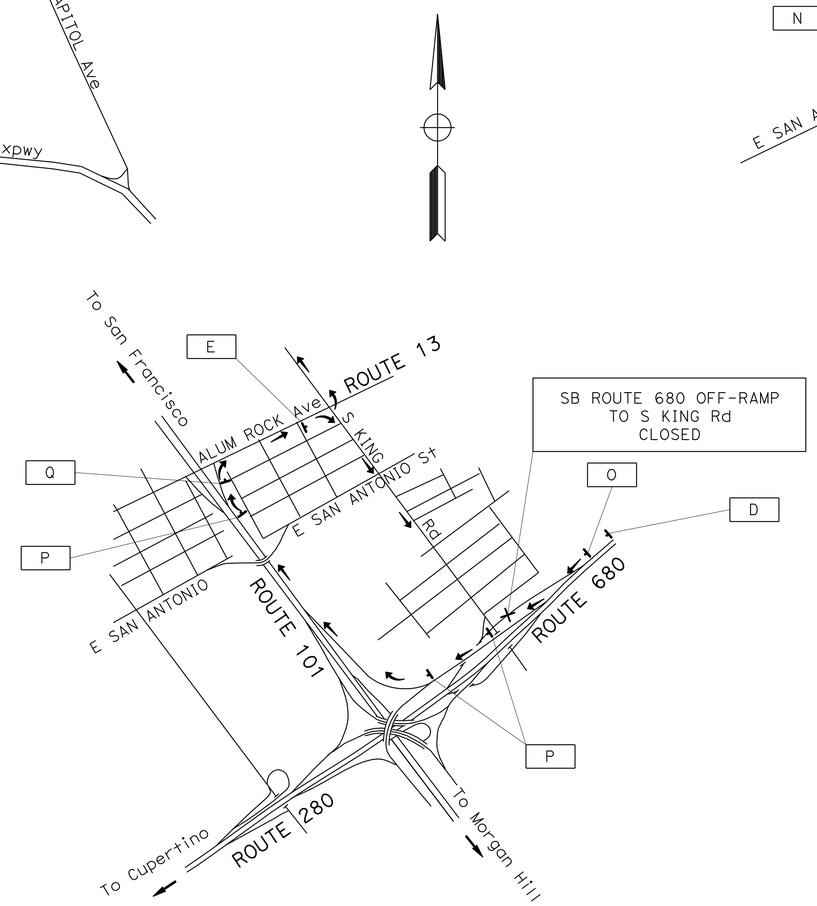


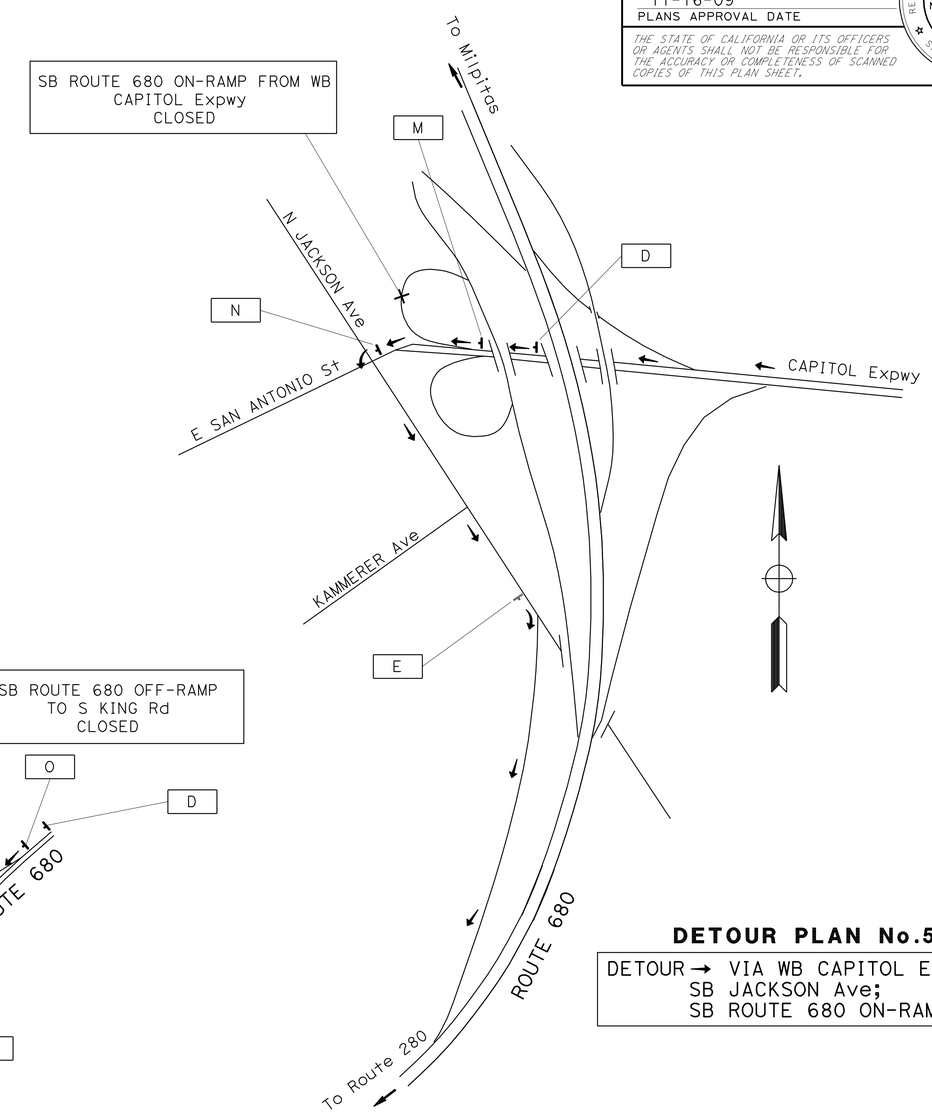
DETOUR PLAN No.4

DETOUR → VIA WB ALUM ROCK Ave;
SB JACKSON Ave;
SB ROUTE 680 ON-RAMP



DETOUR PLAN No.6

DETOUR → VIA ROUTE NB/SB 101;
ON-RAMP TO NB ROUTE 101;
OFF-RAMP TO ALUM ROCK/ROUTE 130



DETOUR PLAN No.5

DETOUR → VIA WB CAPITOL Expwy;
SB JACKSON Ave;
SB ROUTE 680 ON-RAMP

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

CS- 3

FOR LEGEND, SEE SHEET CS-1

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CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

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DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	20	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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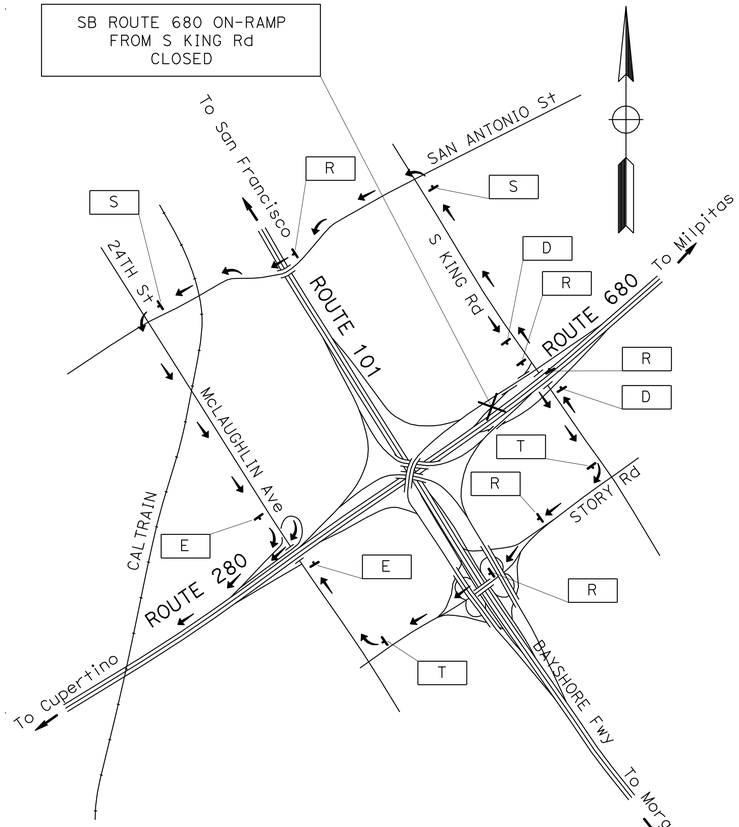
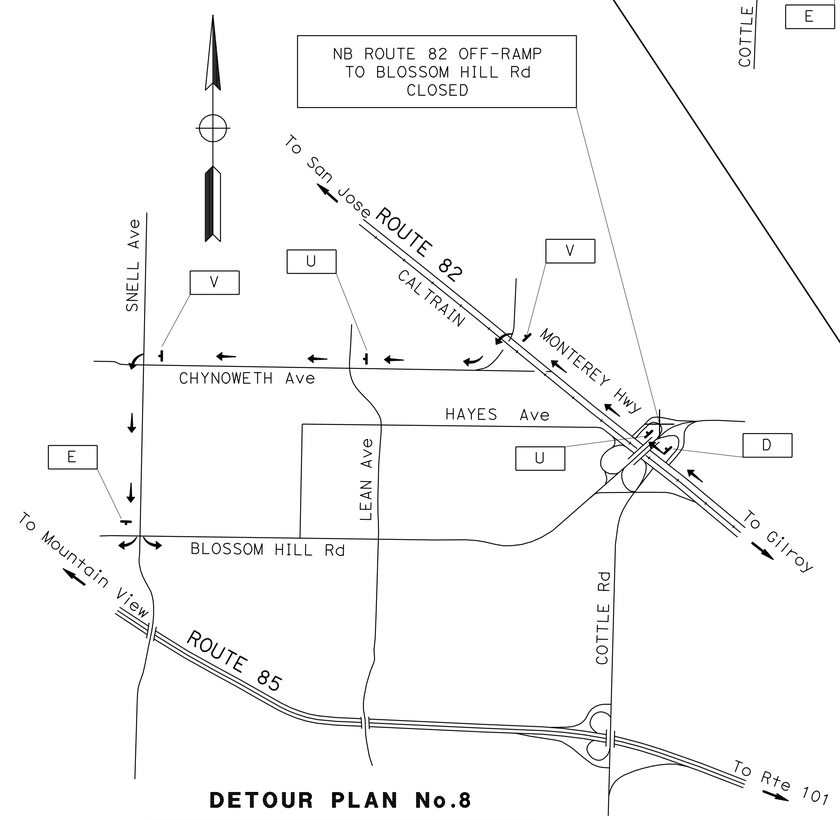
CANCELED



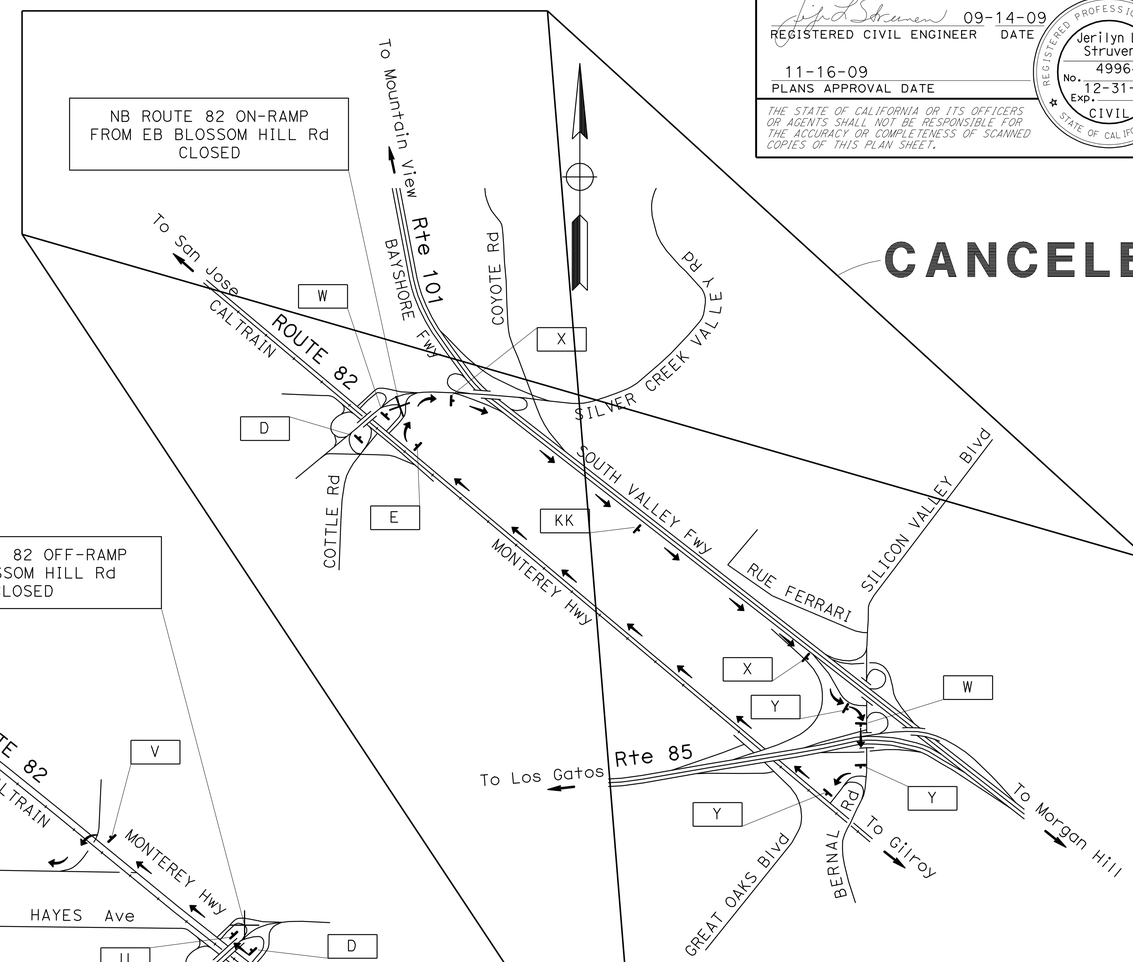
DETOUR PLAN No.7

DETOUR→ VIA EB S KING Rd; SB STORY Rd; WB McLAUGHLIN Ave; FROM WB McLAUGHLIN Ave LOOP ON-RAMP TO NB ROUTE 280
DETOUR→ VIA WB S KING Rd; SB E SAN ANTONIO St; EB 24TH St/McLAUGHLIN Ave; FROM EB McLAUGHLIN Ave ON-RAMP TO NB ROUTE 280



DETOUR PLAN No.8

DETOUR→ VIA NB ROUTE 82; WB CHYNOWETH Ave; SB SHELL Ave; BLOSSOM HILL Rd



DETOUR PLAN No.9

DETOUR→ VIA EB BLOSSOM HILL Rd; SB 101 ON-RAMP; SB OFF-RAMP TO BERNAL Rd; NB MONTEREY Hwy; NB ROUTE 82

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY / DATE REVISED

LAST REVISION 09-14-09 DATE PLOTTED => 23-NOV-2009 TIME PLOTTED => 12:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	21	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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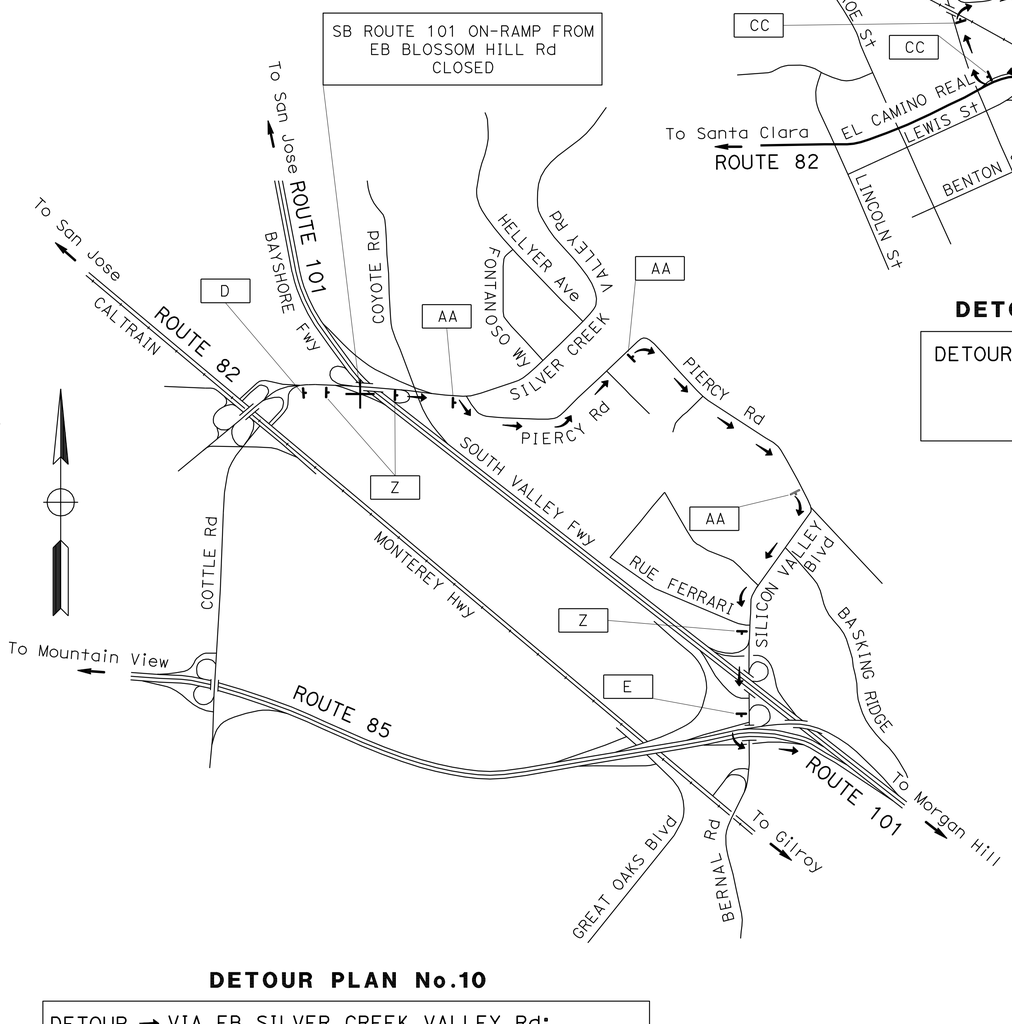
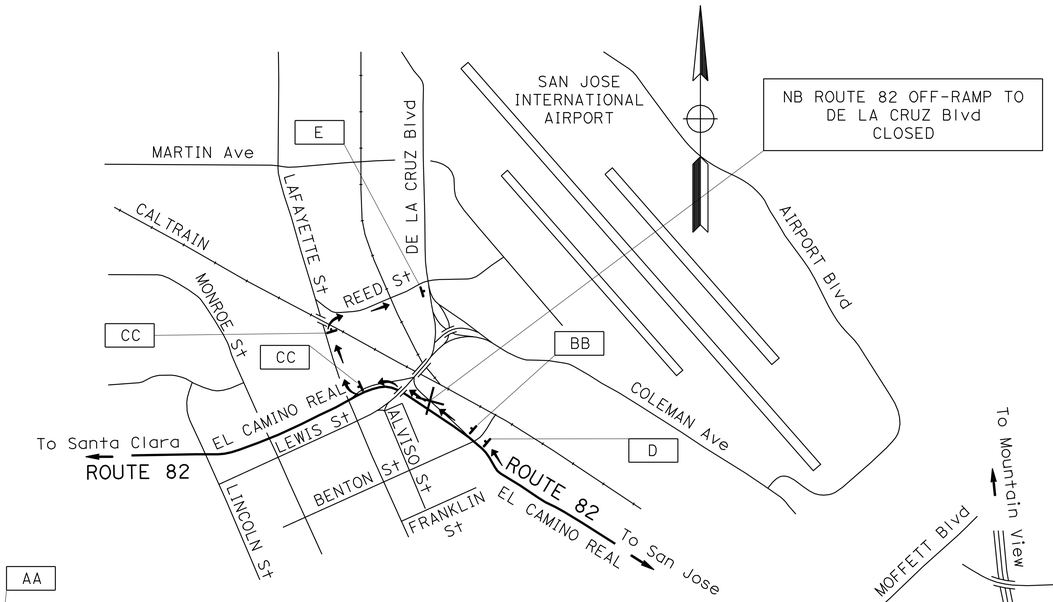


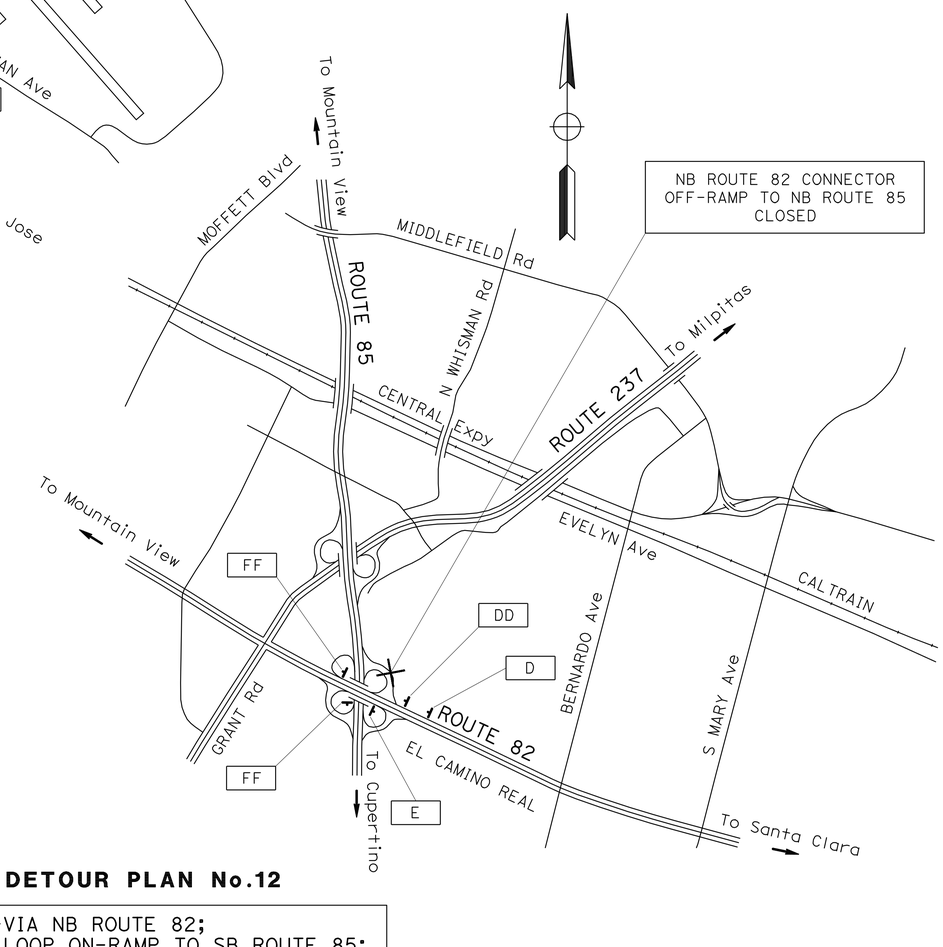
DETOUR PLAN No.10

DETOUR → VIA EB SILVER CREEK VALLEY Rd;
SB PIERCY Rd; WB TENNANT Ave;
SB SILICON VALLEY Blvd;
SB BERNAL Rd TO SB ROUTE 101 ON-RAMP



DETOUR PLAN No.11

DETOUR → VIA NB ROUTE 82;
NB LAFAYETTE St;
EB REED St;
DE LA CRUZ Blvd



DETOUR PLAN No.12

DETOUR → VIA NB ROUTE 82;
LOOP ON-RAMP TO SB ROUTE 85;
LOOP OFF-RAMP TO SB ROUTE 82;
LOOP ON-RAMP TO NB ROUTE 85

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS- 5

REVISED BY	DATE REVISED
HENRY TAM	JERILYN STRUVEN
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ROLAND AU YENG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 09-16-09 DATE PLOTTED => 23-NOV-2009 TIME PLOTTED => 12:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	22	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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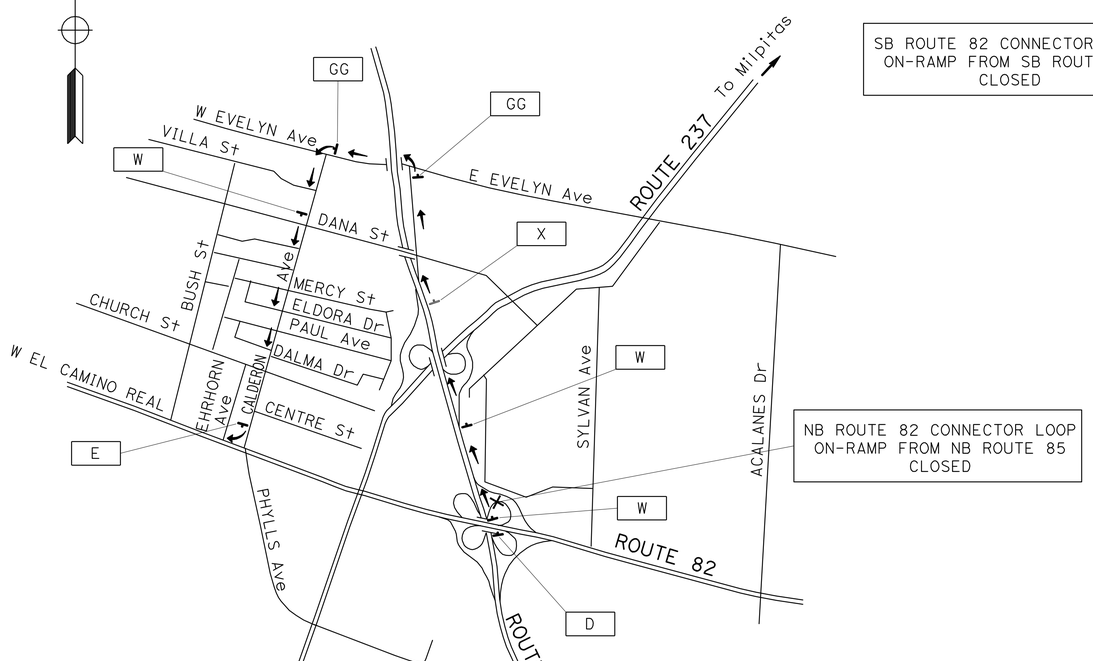
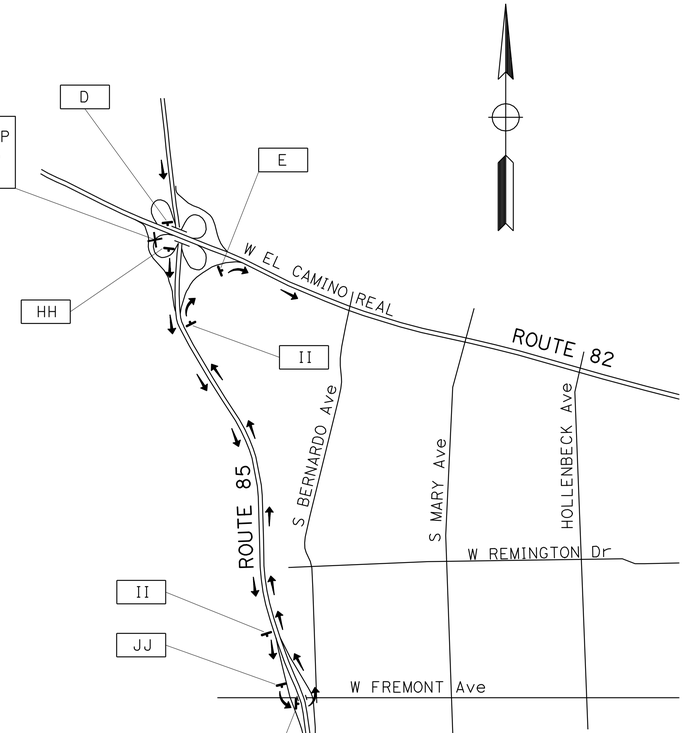


SB ROUTE 82 CONNECTOR LOOP ON-RAMP FROM SB ROUTE 85 CLOSED

NB ROUTE 82 CONNECTOR LOOP ON-RAMP FROM NB ROUTE 85 CLOSED

DETOUR PLAN No.13

DETOUR → VIA NB ROUTE 85;
EXIT W EVELYN Ave;
CALDERON Ave;
NB ROUTE 82



DETOUR PLAN No.14

DETOUR → VIA SB ROUTE 85;
OFF-RAMP TO W FREMONT Ave;
ON-RAMP TO NB ROUTE 85;
OFF-RAMP TO SB ROUTE 82

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS- 6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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REVISED BY
DATE REVISED

LAST REVISION 09-16-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:40

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	23	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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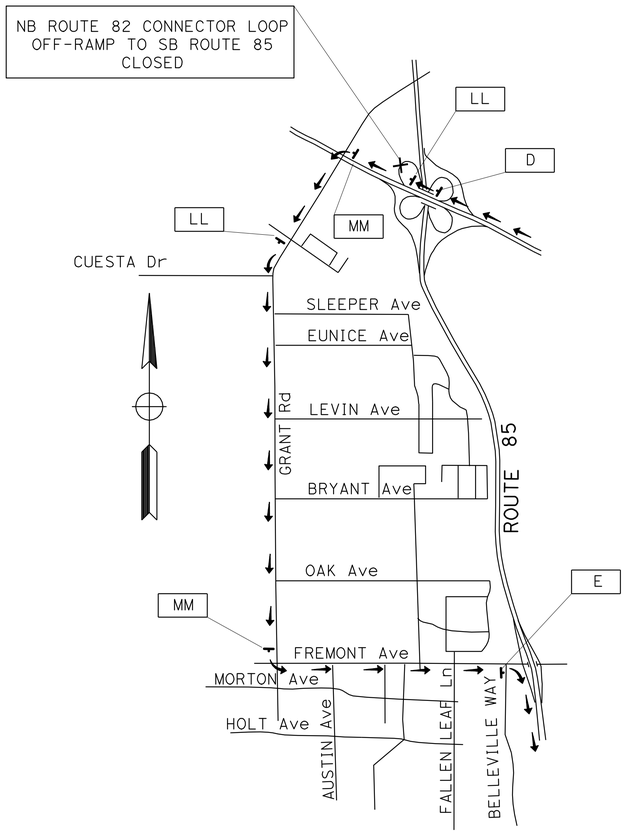
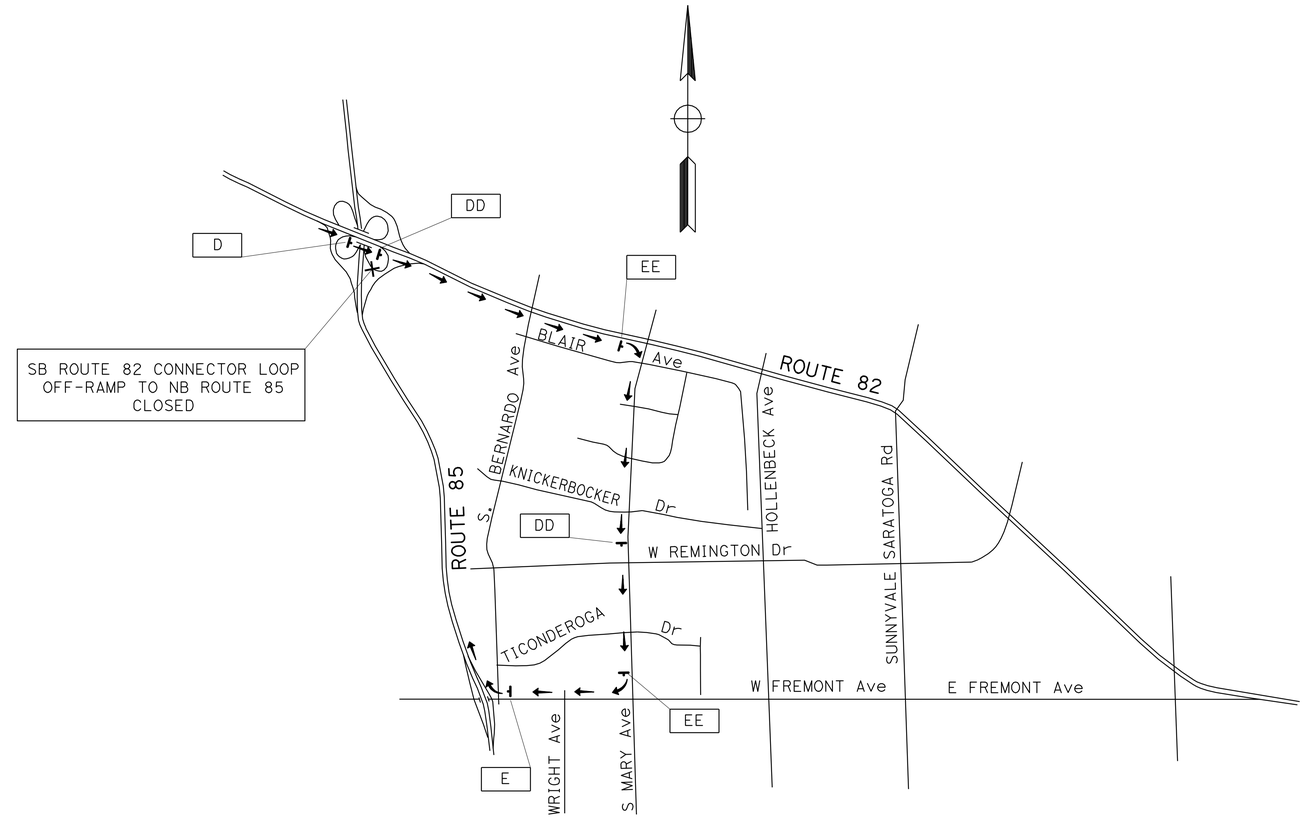


DETOUR PLAN No.15

DETOUR → VIA NB ROUTE 82;
SB GRANT Rd;
EB FREMONT Ave;
SB ROUTE 85 ON-RAMP



DETOUR PLAN No.16

DETOUR → VIA SB ROUTE 82;
SB S MARY Ave;
W FREMONT Ave;
NB ROUTE 85 ON-RAMP

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

CS-7

FOR LEGEND, SEE SHEET CS-1

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CHECKED BY: JERILYN STRUVEN
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DATE REVISED

LAST REVISION 09-16-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	24	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jerilyn L. Struven
No. 49964
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

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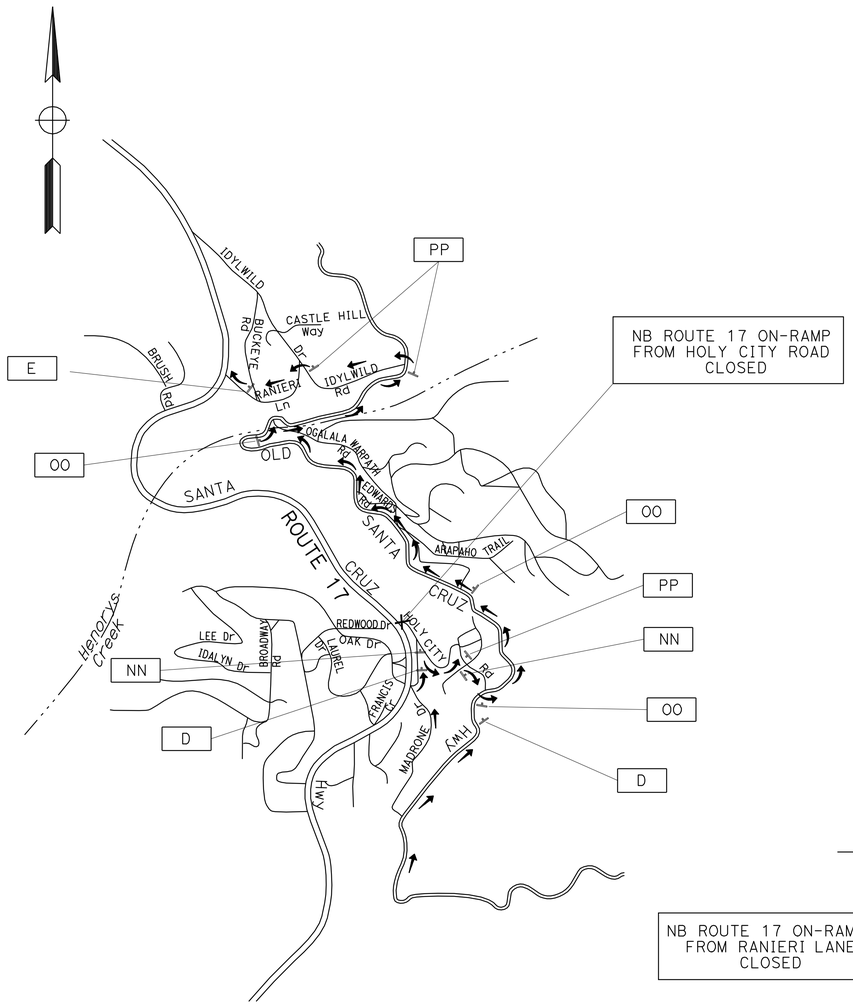
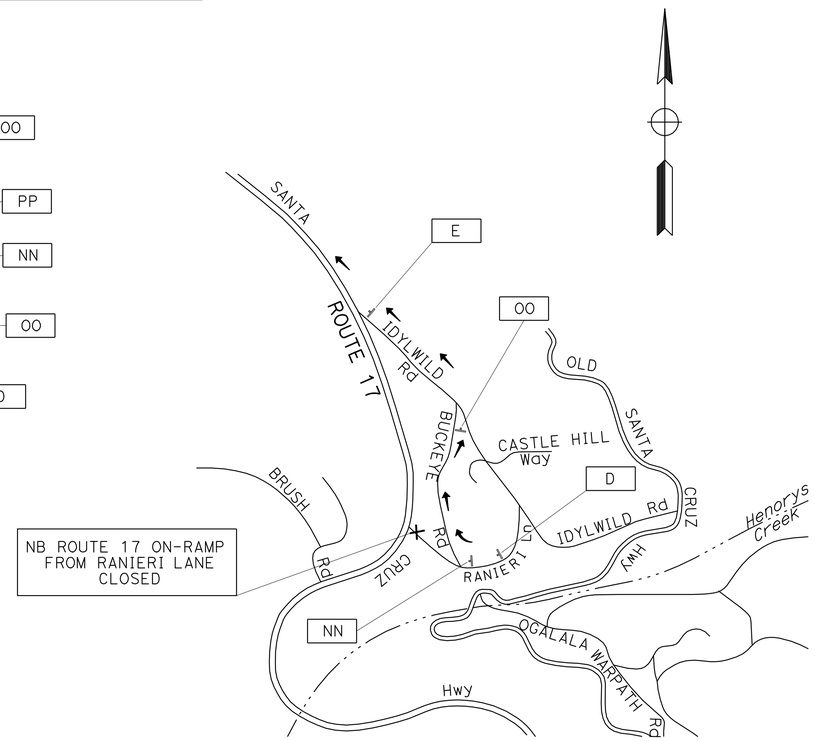


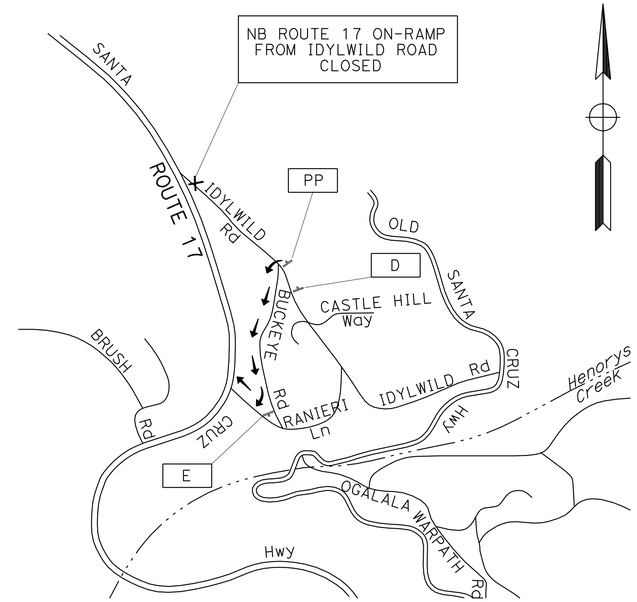
DETOUR PLAN No. 17

DETOUR→ VIA NB OLD SANTA CRUZ HIGHWAY
TO IDYLWILD ROAD;
WB IDYLWILD ROAD TO RAINIERI LANE;
WB RAINIERI LANE TO NB ROUTE 17



DETOUR PLAN No. 18

DETOUR→ VIA NB BUCKEYE ROAD
TO IDYLWILD ROAD;
WB IDYLWILD ROAD
TO NB ROUTE 17



DETOUR PLAN No. 19

DETOUR→ VIA SB BUCKEYE ROAD
TO RANIERI LANE;
WB RANIERI LANE
TO NB ROUTE 17

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

CS- 8

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
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DATE REVISED

LAST REVISION 09-16-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	25	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jerilyn L. Struven
No. 49964
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

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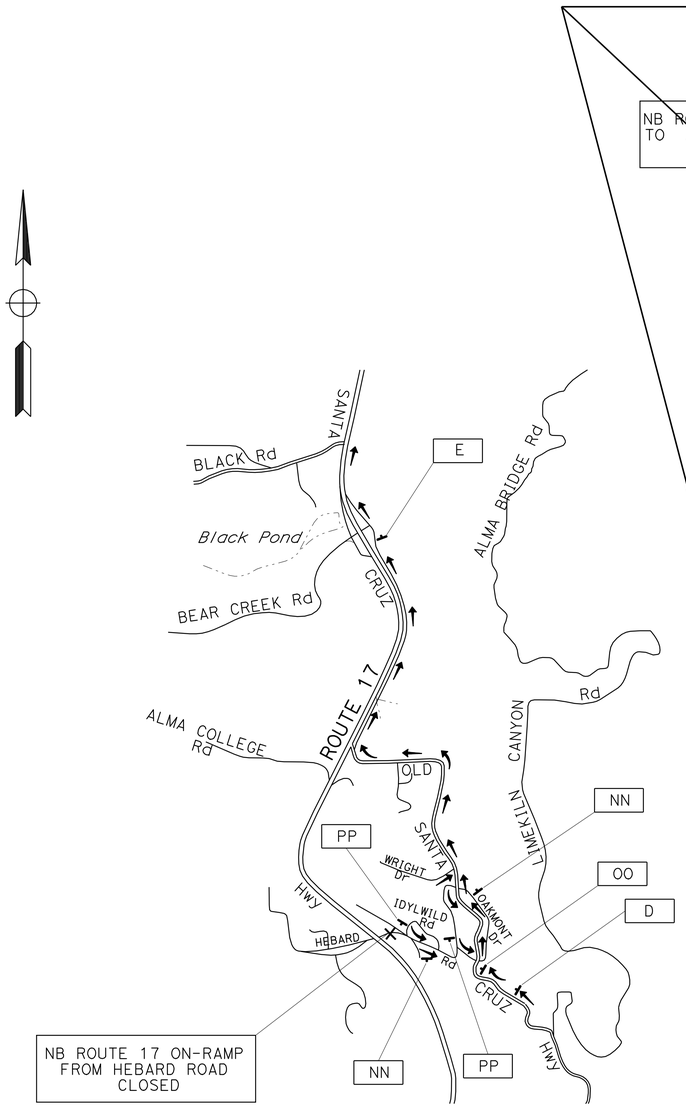
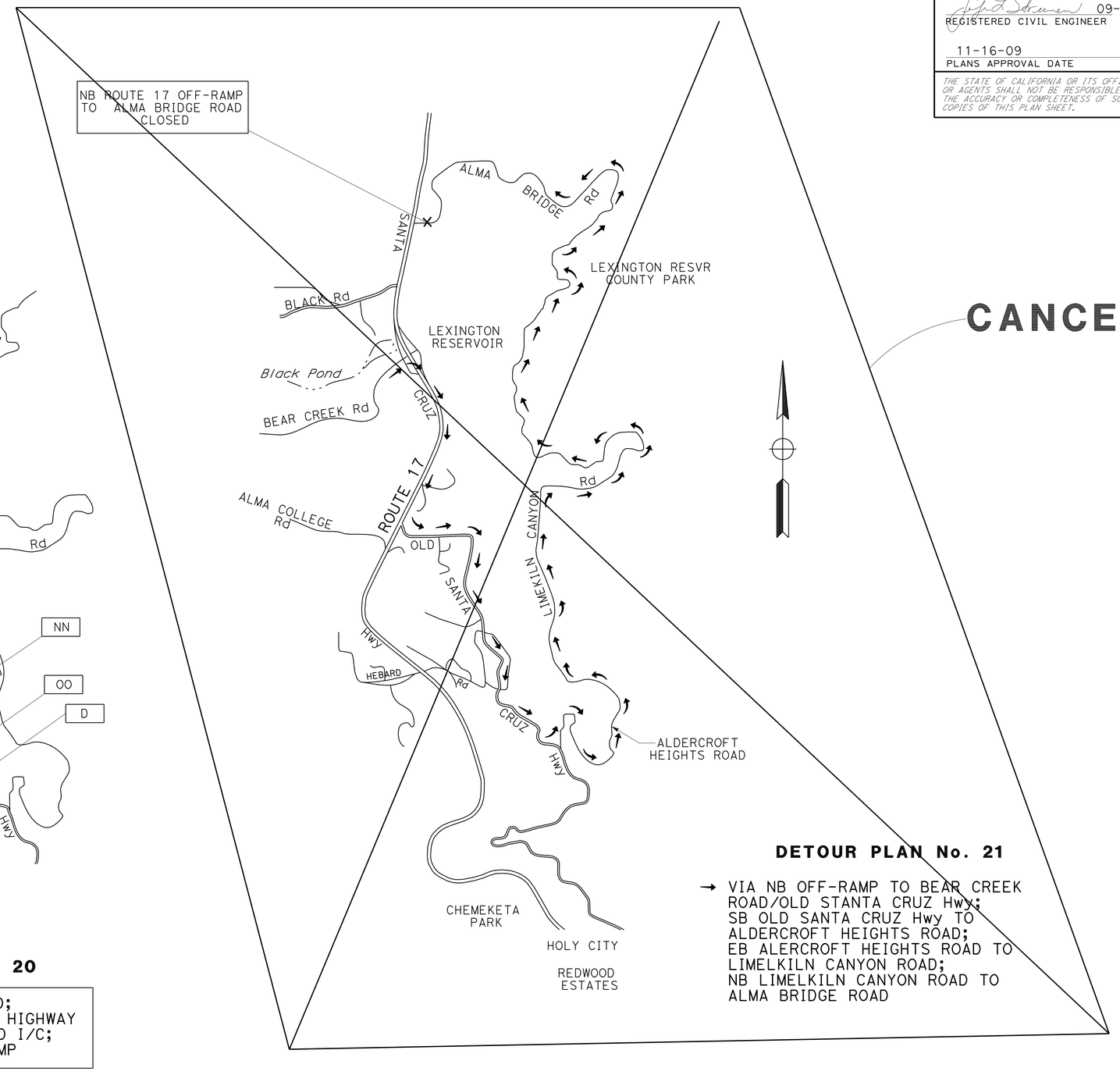


DETOUR PLAN No. 20

DETOUR → VIA NB HEBARD ROAD;
NB OLD SANTA CRUZ HIGHWAY
TO BEAR CREEK ROAD I/C;
NB ROUTE 17 ON-RAMP



CANCELED

DETOUR PLAN No. 21

→ VIA NB OFF-RAMP TO BEAR CREEK ROAD/OLD SANTA CRUZ Hwy;
SB OLD SANTA CRUZ Hwy TO ALDERCROFT HEIGHTS ROAD;
EB ALERCROFT HEIGHTS ROAD TO LIMELKILN CANYON ROAD;
NB LIMELKILN CANYON ROAD TO ALMA BRIDGE ROAD

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-14-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	26	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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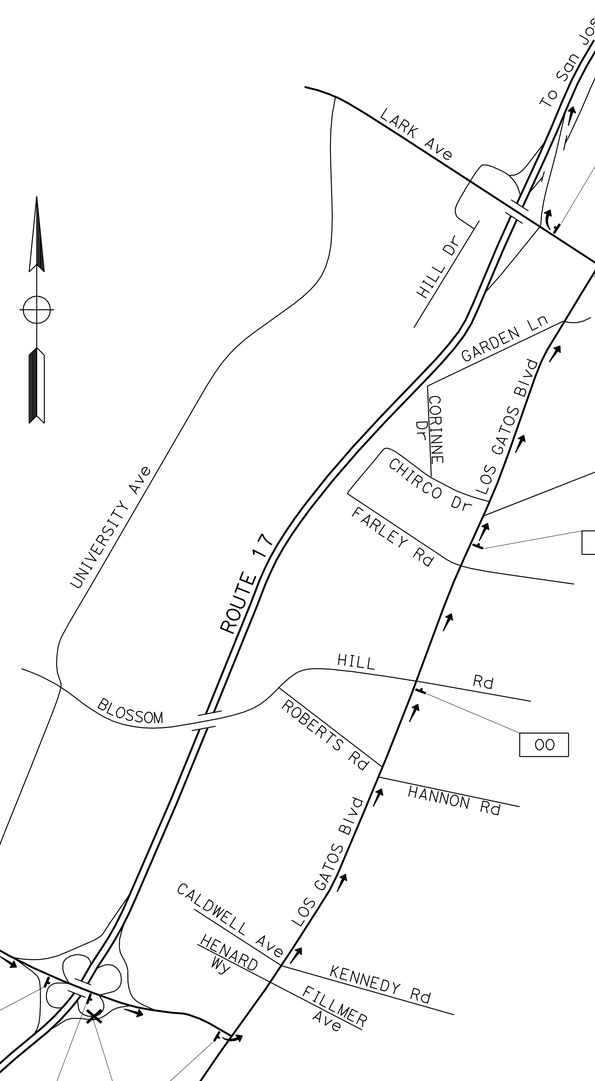
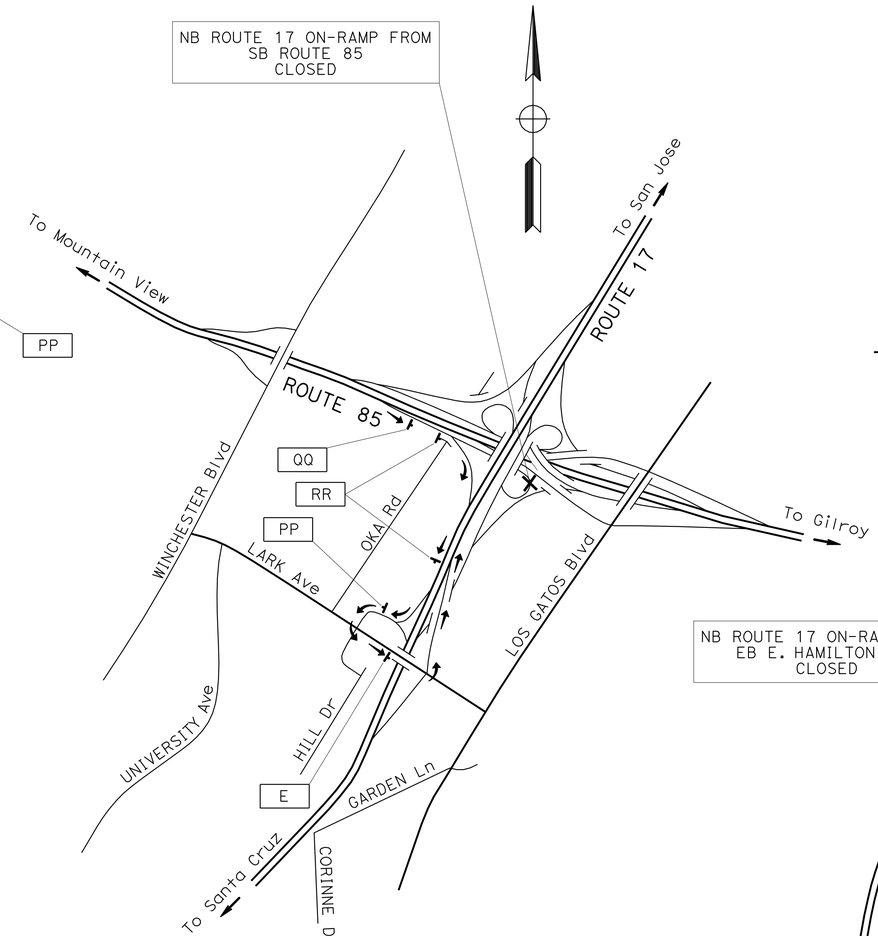


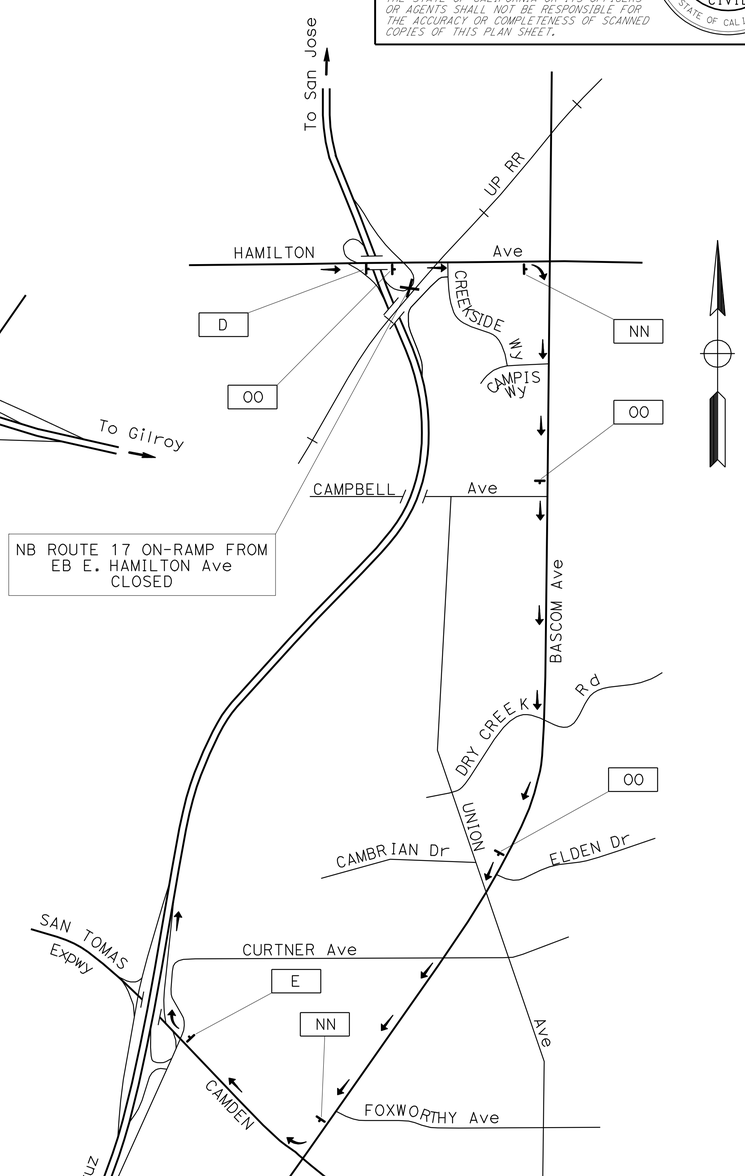
DETOUR PLAN No. 22

DETOUR → NB ROUTE 9;
NB LOS GATOS Blvd;
WB LARK Ave TO
NB ROUTE 17 ON-RAMP



DETOUR PLAN No. 23

DETOUR → SB ROUTE 85 OFF-RAMP TO SB ROUTE 17;
SB ROUTE 17 TO LARK Ave OFF-RAMP;
EB LARK Ave TO NB ROUTE 17 ON-RAMP



DETOUR PLAN No. 24

DETOUR → EB E.HAMILTON Ave;
SB S. BASCOM Ave;
WB CAMDEN Ave TO
NB ROUTE 17 ON-RAMP

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

CS-10

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

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FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-16-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	27	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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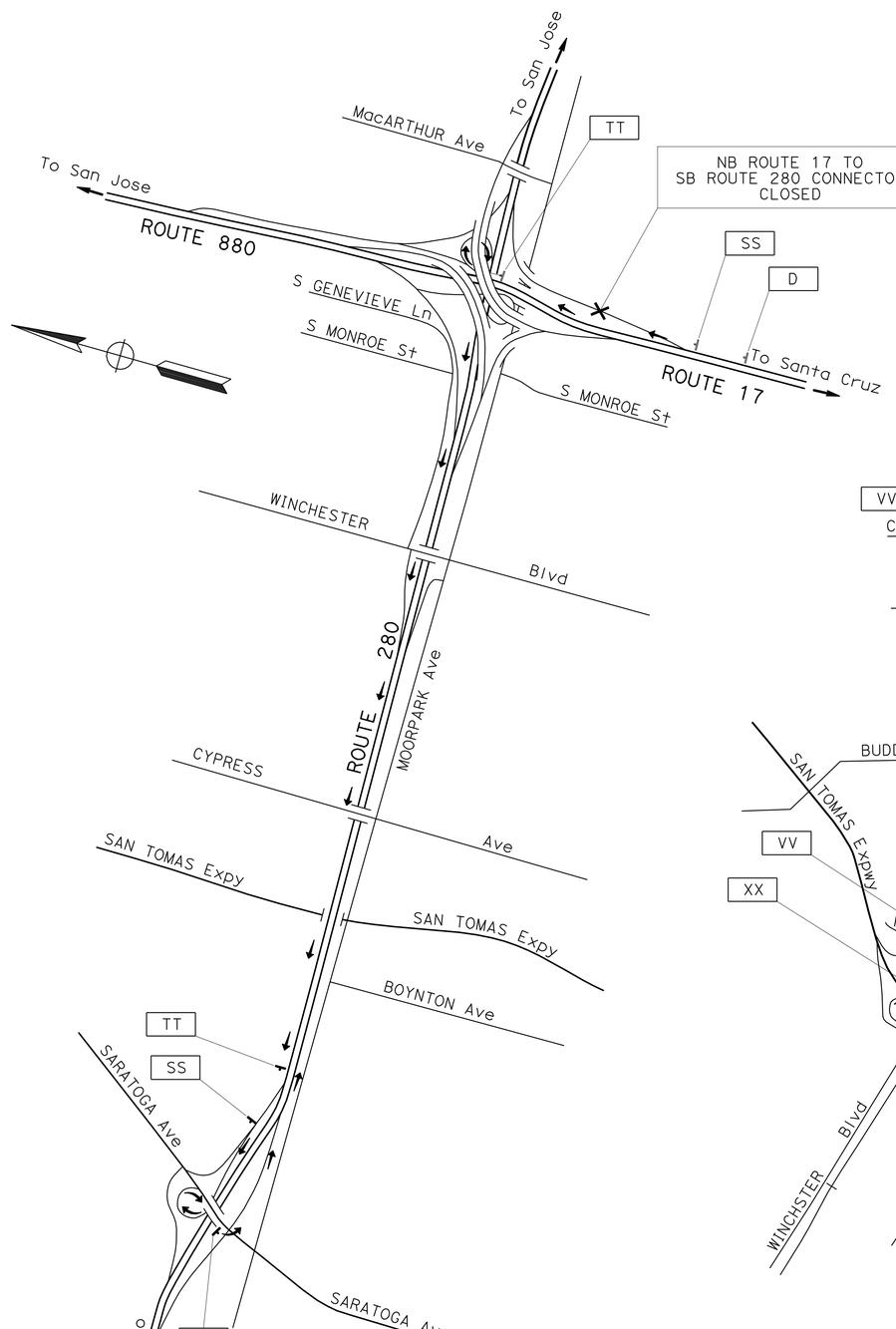
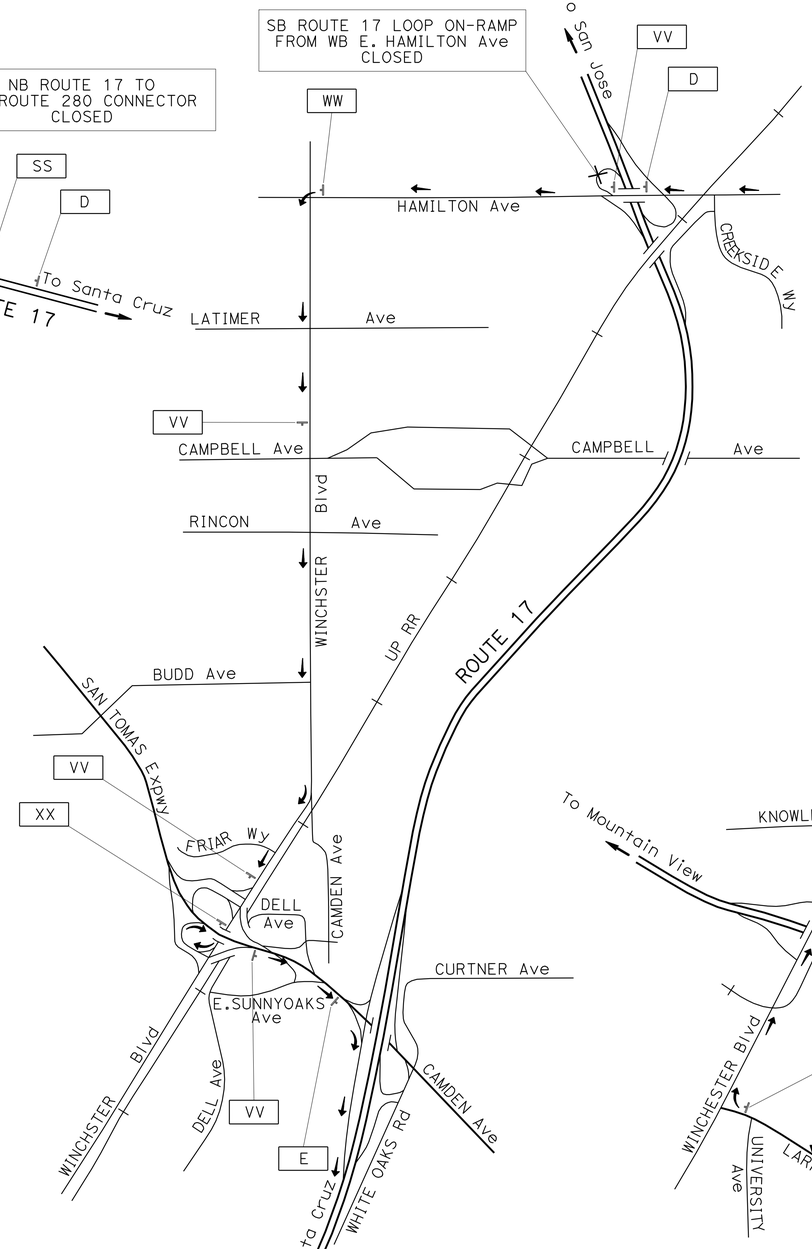


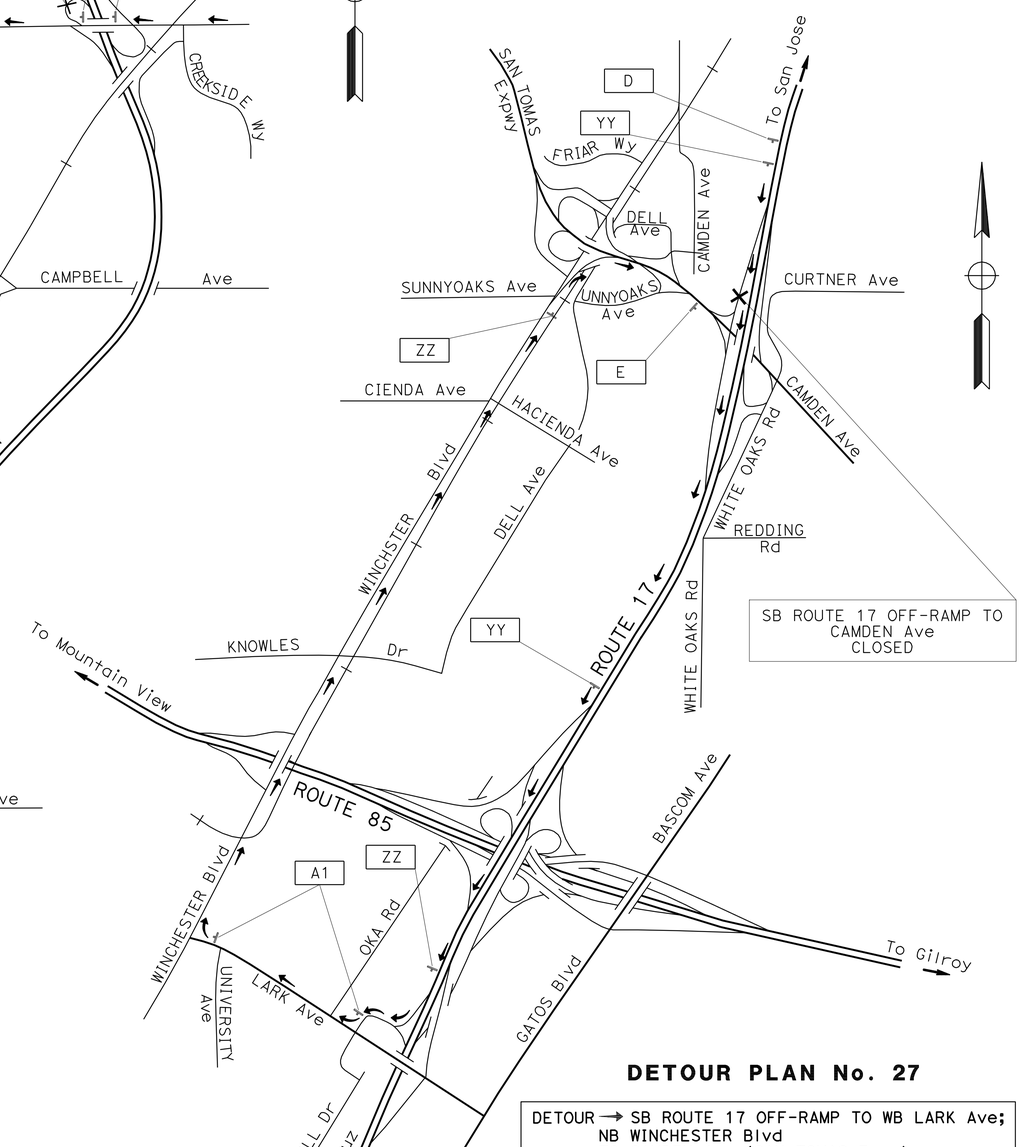
DETOUR PLAN No. 25

DETOUR → NB ROUTE 17;
LOOP CONNECTOR TO NB ROUTE 280;
LOOP OFF-RAMP TO SB SARATOGA Ave;
SB SARATOGA Ave;
ON-RAMP TO SB ROUTE 280



DETOUR PLAN No. 26

DETOUR → WB E. HAMILTON Ave;
SB WINCHESTER Blvd;
LOOP RAMP TO EB CAMDEN Ave;
ON-RAMP TO SB ROUTE 17



DETOUR PLAN No. 27

DETOUR → SB ROUTE 17 OFF-RAMP TO WB LARK Ave;
NB WINCHESTER Blvd
TO CAMDEN Ave (SAN TOMAS Expy)

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-11

REVISED BY	DATE REVISED

HENRY TAM — JERILYN STRUVEN
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — ROLAND AU YENG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 09-17-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	28	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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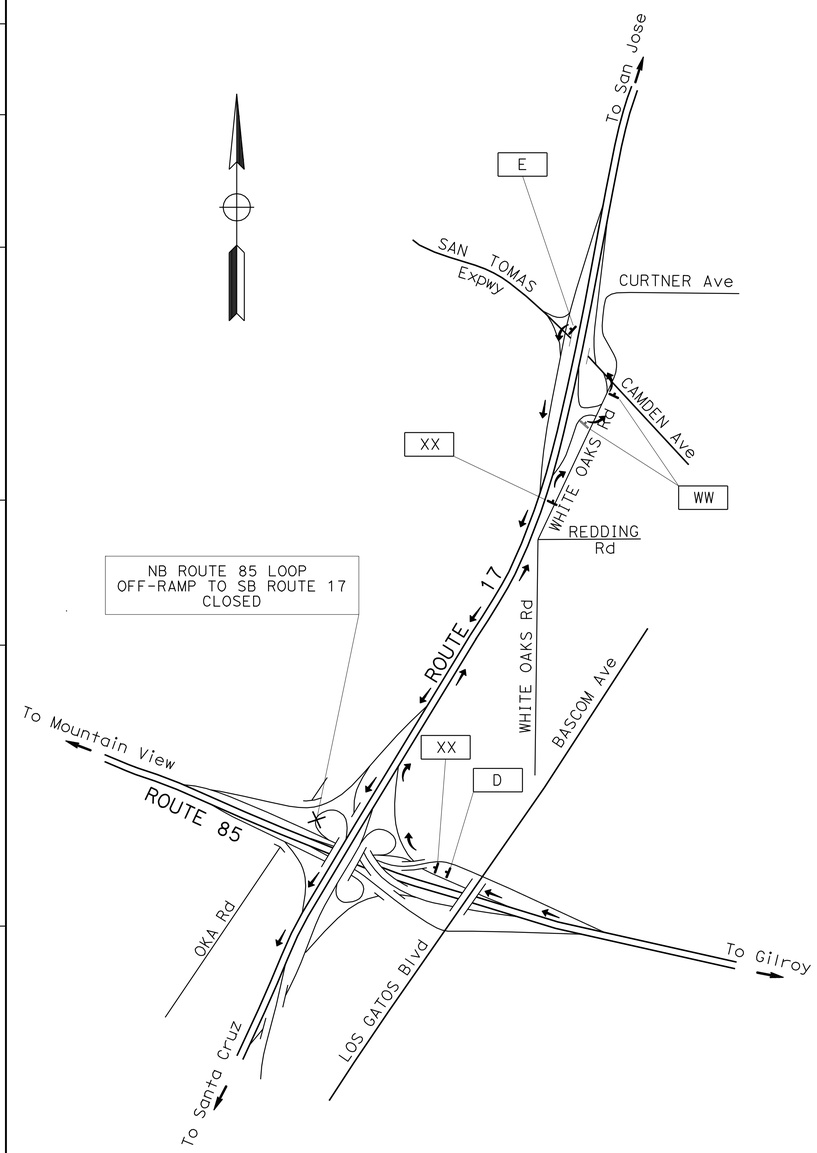
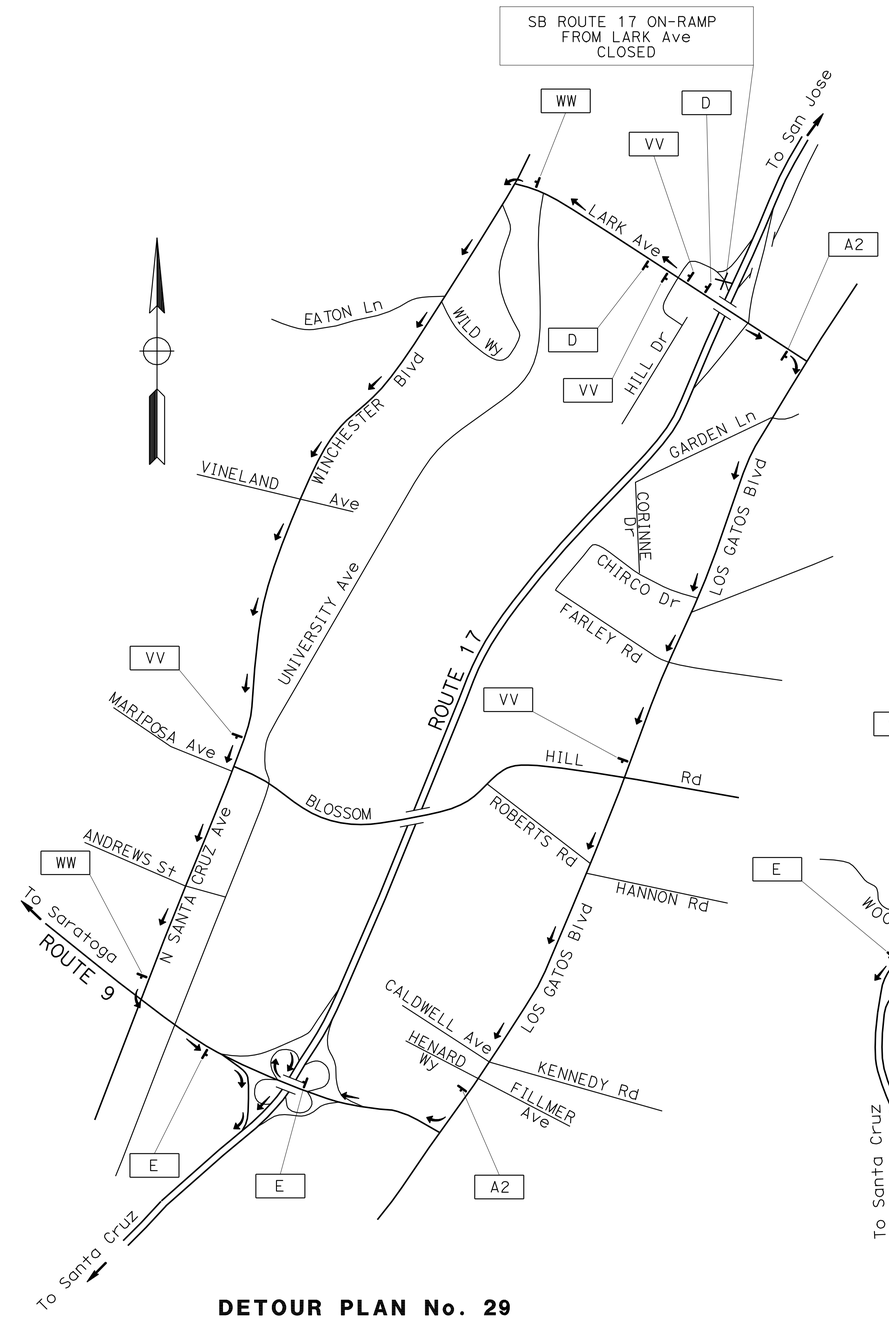


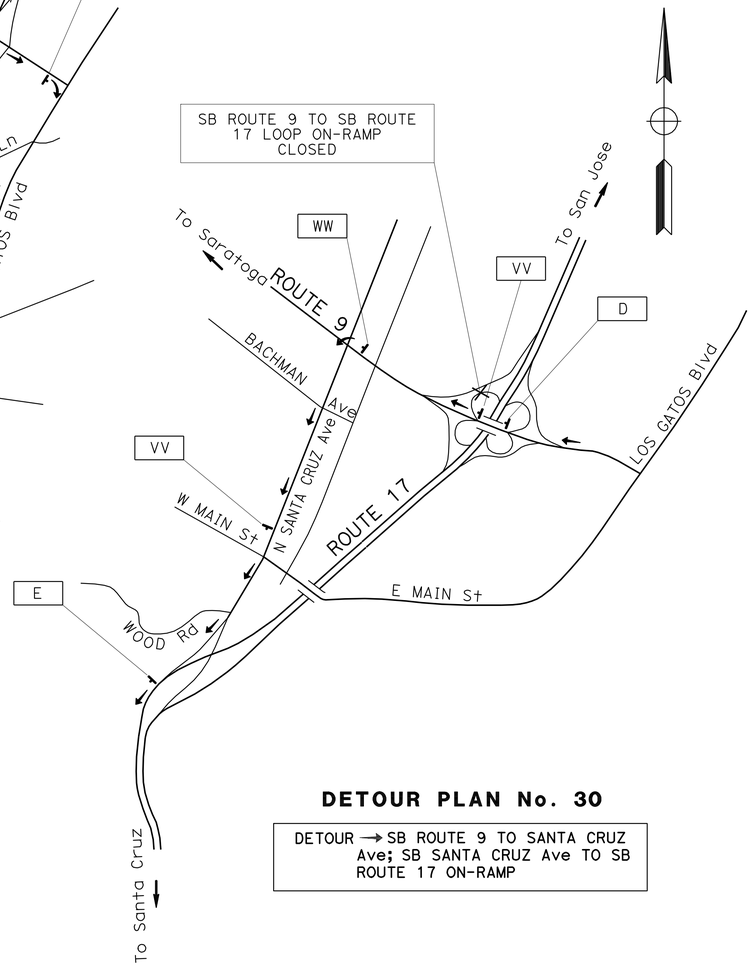
DETOUR PLAN No. 28

DETOUR → NB ROUTE 85 CONNECTOR TO NB ROUTE 17; NB ROUTE 17; OFF-RAMP TO WHITE OAKS Rd/CAMDEN Ave; WB CAMDEN Ave TO SB ROUTE 17 ON-RAMP



DETOUR PLAN No. 29

DETOUR →(TRAVELING WEST) WB LARK Ave;
SB WINCHESTER Blvd/SB N. SANTA CRUZ Ave;
EB SARATOGA Rd TO SB ROUTE 17 ON-RAMP
DETOUR →(TRAVELING EAST) EB LARK Ave;
SB LOS GATOS Rd;
WB LOS GATOS/SARATOGA Rd;
LOOP ON-RAMP TO SB ROUTE 17



DETOUR PLAN No. 30

DETOUR → SB ROUTE 9 TO SANTA CRUZ Ave; SB SANTA CRUZ Ave TO SB ROUTE 17 ON-RAMP

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION: 09-17-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	29	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

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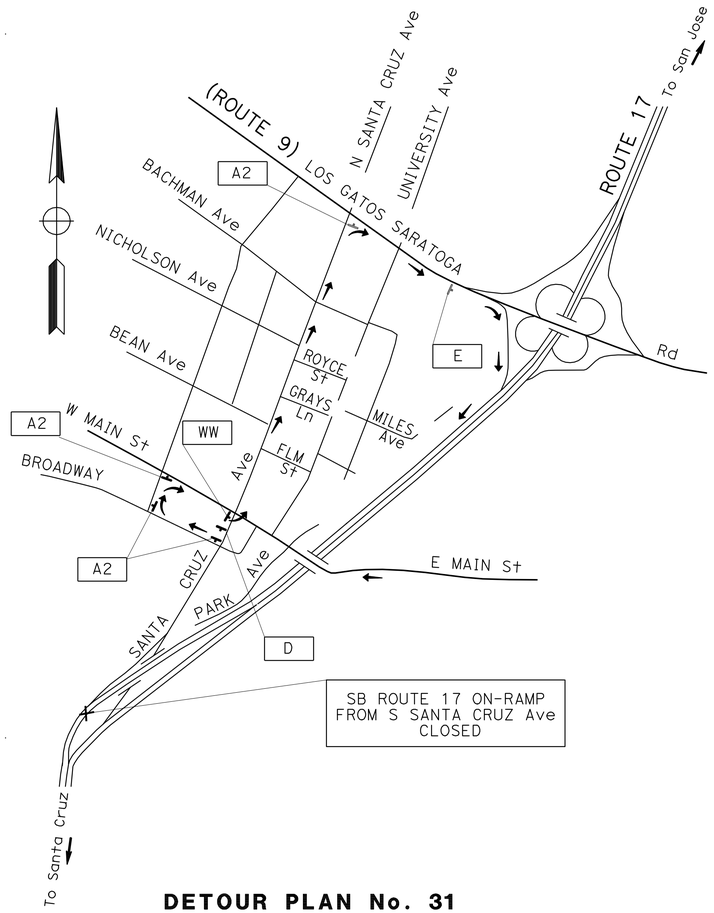
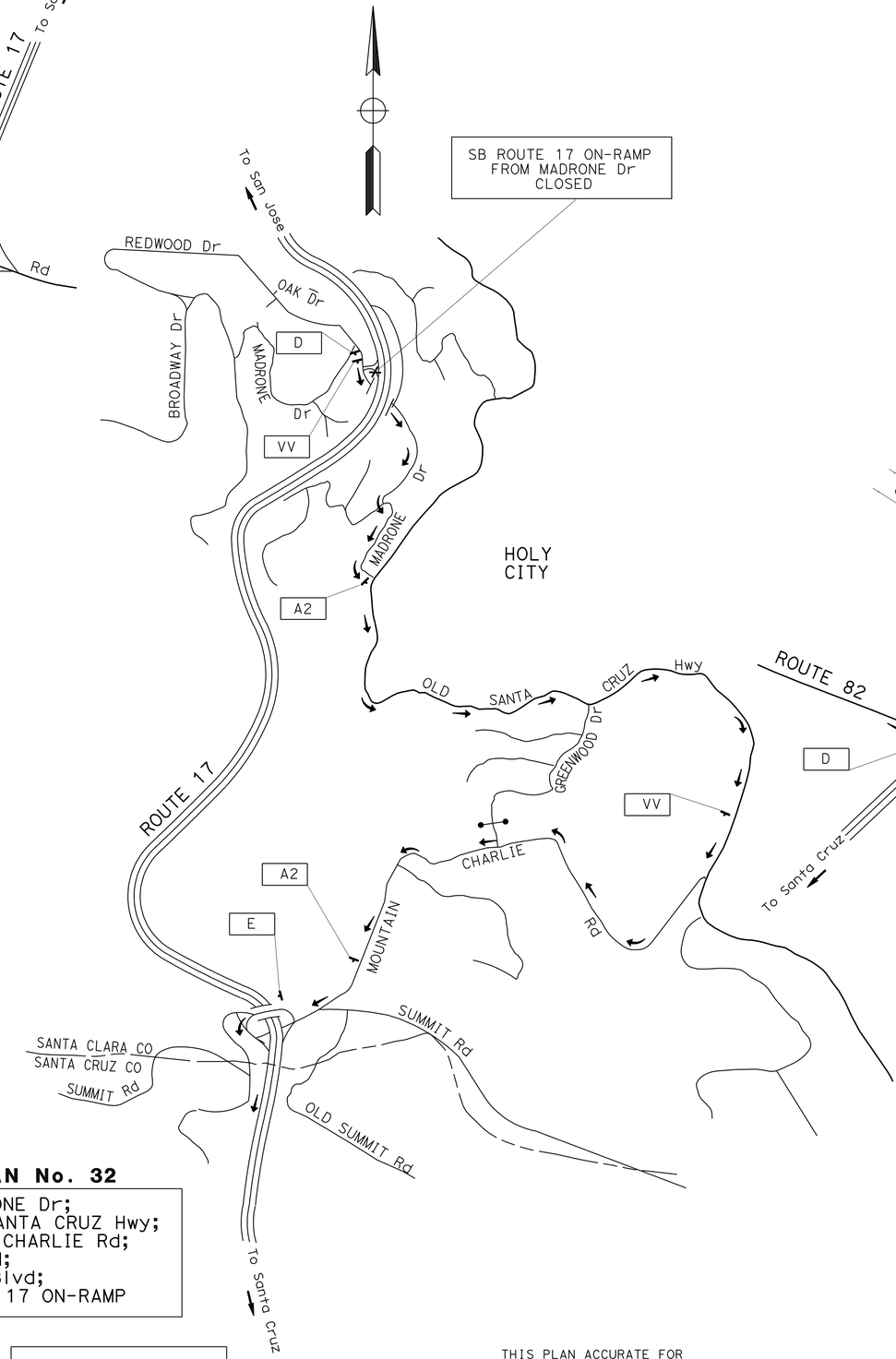


SB ROUTE 17 ON-RAMP FROM S SANTA CRUZ Ave CLOSED

DETOUR PLAN No. 31

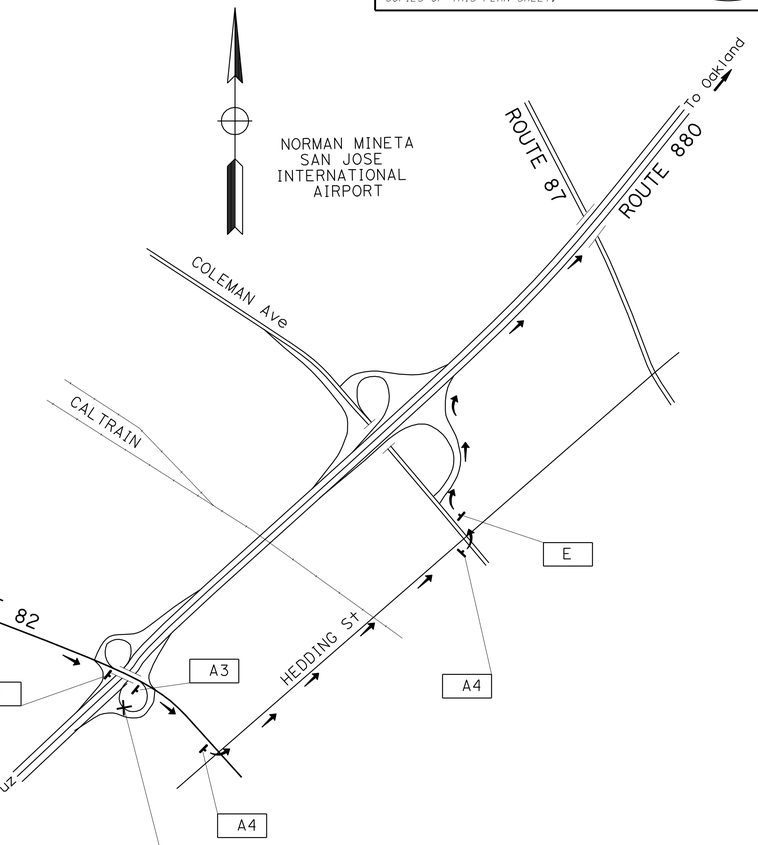
DETOUR → VIA BROADWAY; W MAIN St;
N SANTA CRUZ Ave;
EB ROUTE 9 (LOS GATOS SARATOGA Rd);
SB ROUTE 17 ON-RAMP



SB ROUTE 17 ON-RAMP FROM MADRONE Dr CLOSED

DETOUR PLAN No. 32

DETOUR → VIA MADRONE Dr;
SB OLD SANTA CRUZ Hwy;
MOUNTAIN CHARLIE Rd;
SUMMIT Rd;
SKYLINE Blvd;
SB ROUTE 17 ON-RAMP



NB ROUTE 880 CONNECTOR LOOP ON-RAMP FROM ROUTE 82 CLOSED

DETOUR PLAN No. 33

DETOUR → VIA SB ROUTE 82;
EB W HEDDING St;
WB COLEMAN Ave TO
NB ROUTE 880 ON-RAMP

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

CS-13

REVISED BY	DATE REVISED
HENRY TAM	JERILYN STRUVEN
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ROLAND AU YENG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC

LAST REVISION 09-17-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	30	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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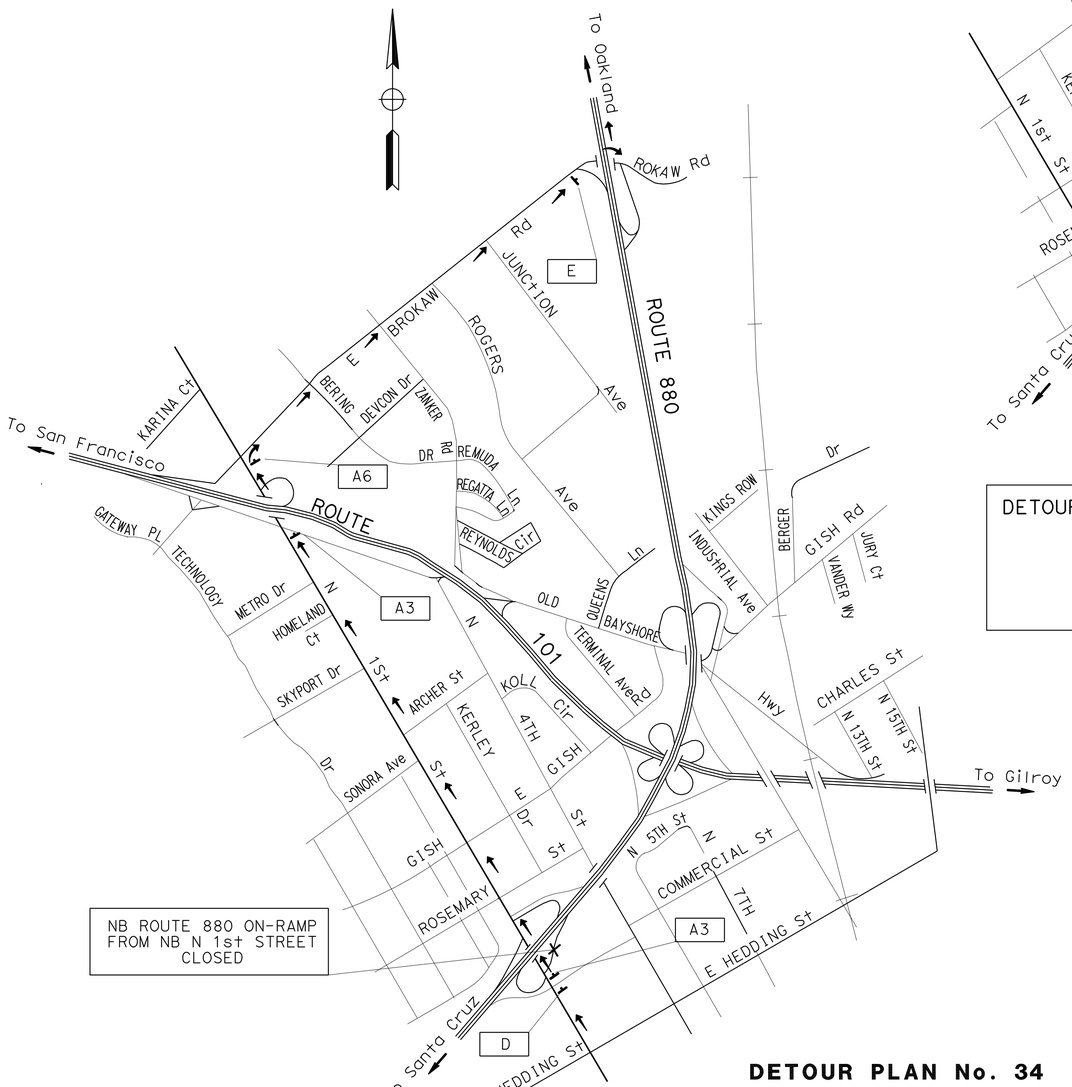
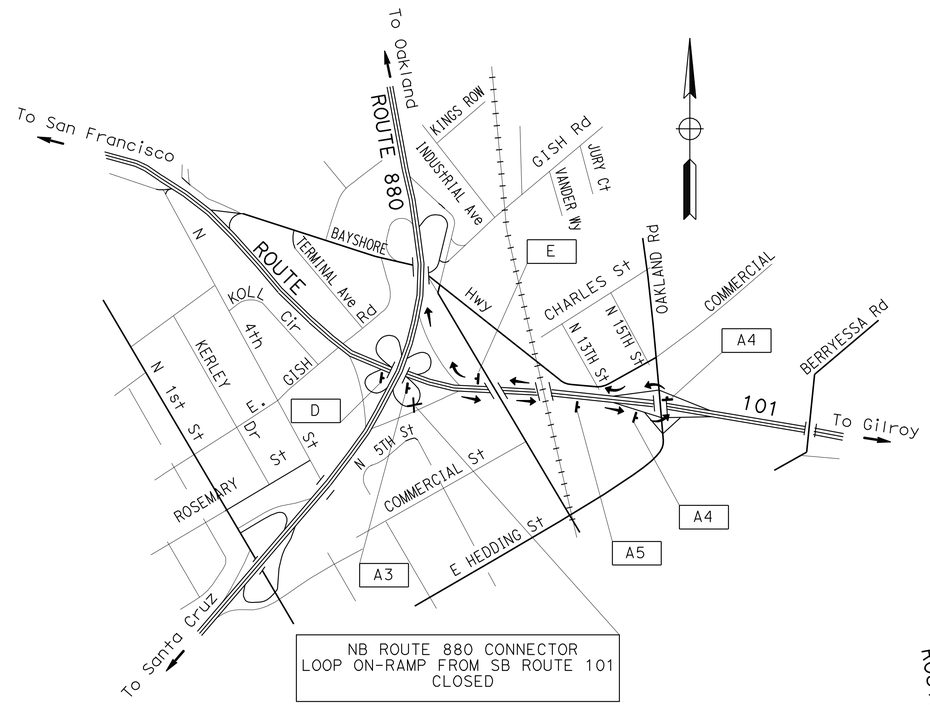


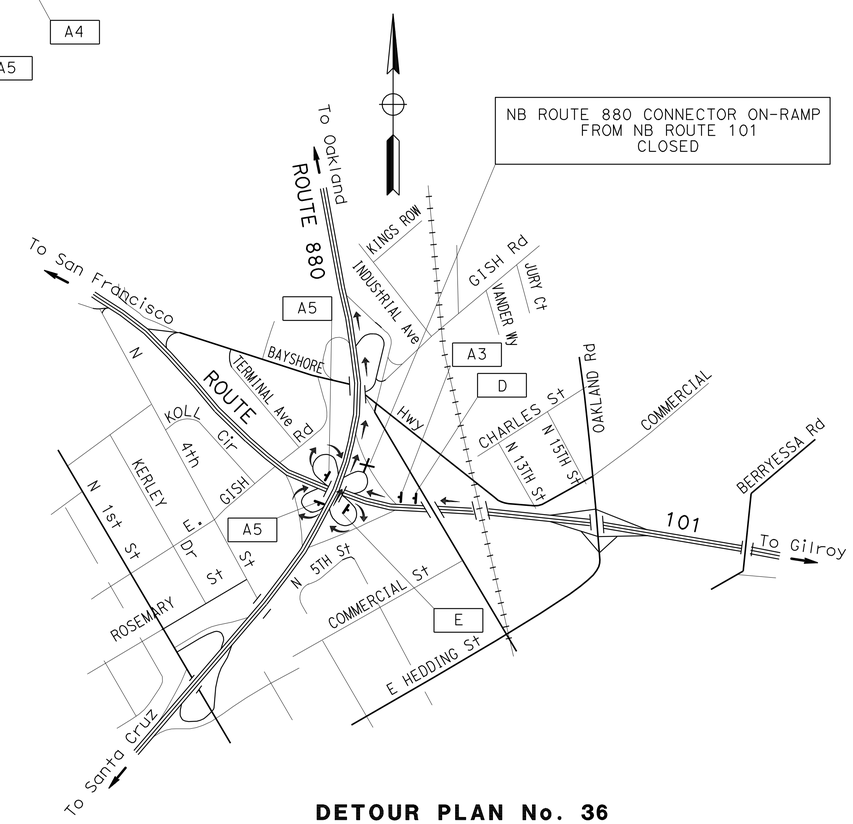
DETOUR PLAN No. 34

DETOUR → VIA N 1st STREET;
EB E BROKAW ROAD
TO NB ROUTE 880 ON-RAMP



DETOUR PLAN No. 35

DETOUR → VIA SB ROUTE 101;
SB OFF-RAMP TO OAKLAND ROAD;
NB OAKLAND ROAD;
ON-RAMP TO NB ROUTE 101;
NB ROUTE 101 TO
NB ROUTE 880 CONNECTOR



DETOUR PLAN No. 36

DETOUR → VIA NB ROUTE 101 OFF TO SB ROUTE 880;
SB ROUTE 880 OFF TO SB ROUTE 101;
SB ROUTE 101 LOOP OFF-RAMP
TO NB ROUTE 880

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-14

REVISED BY	DATE REVISED

HENRY TAM — JERILYN STRUVEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: ROLAND AU YENG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — TRAFFIC — Caltrans

LAST REVISION 09-17-09 — DATE PLOTTED => 23-NOV-2009 — TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	31	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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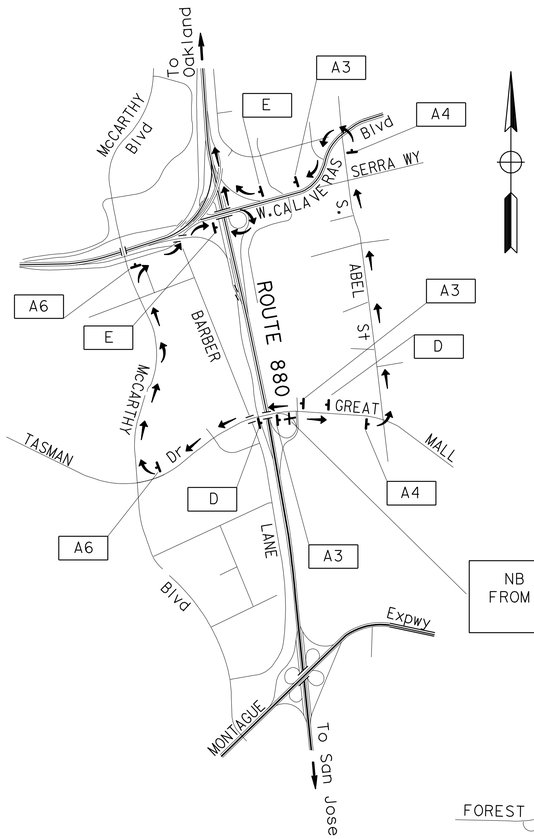
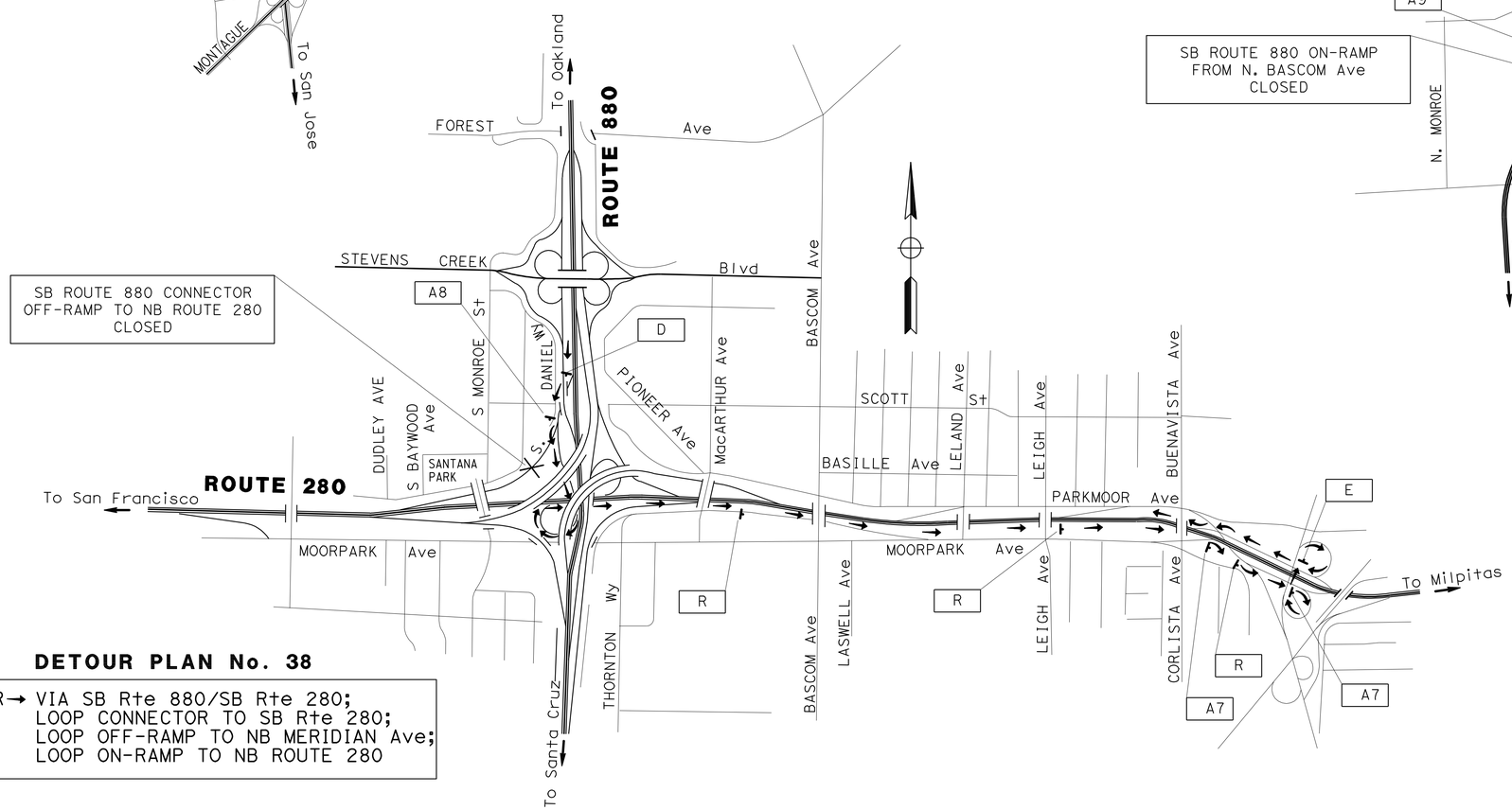


DETOUR PLAN No. 37

DETOUR → VIA WB TASMAN Dr;
NB McCARTHY Blvd;
EB 237 ON-RAMP;
NB 880 ON-RAMP;

DETOUR → VIA EB TASMAN Dr/GREAT MALL Pkwy;
NB S. ABEL St;
WB W. CALAVERAS Blvd;
ON RAMP TO NB 880

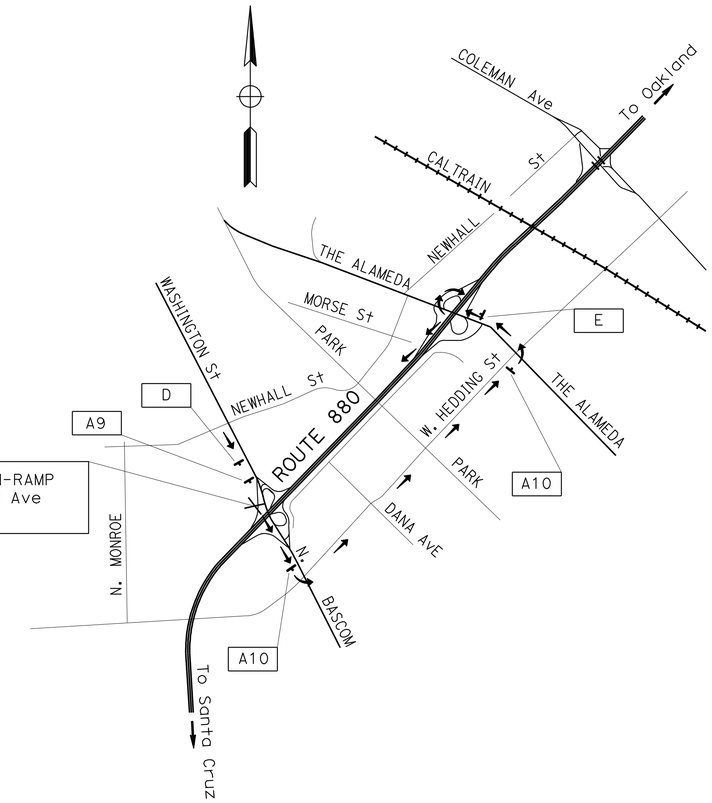
NB ROUTE 880 ON-RAMP FROM GREAT MALL PARKWAY CLOSED



SB ROUTE 880 CONNECTOR OFF-RAMP TO NB ROUTE 280 CLOSED

DETOUR PLAN No. 38

DETOUR→ VIA SB Rte 880/SB Rte 280;
LOOP CONNECTOR TO SB Rte 280;
LOOP OFF-RAMP TO NB MERIDIAN Ave;
LOOP ON-RAMP TO NB ROUTE 280



SB ROUTE 880 ON-RAMP FROM N. BASCOM Ave CLOSED

DETOUR PLAN No. 39

DETOUR → VIA SB N. BASCOM Ave;
EB W. HEDDING St;
NB Rte 82 (THE ALAMEDA);
LOOP ON-RAMP TO SB Rte 880

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CONSTRUCTION AREA SIGNS
(DETOUR PLAN)
NO SCALE

CS-15

REVISED BY	DATE REVISED

HENRY TAM — JERILYN STRUVEN — CALCULATED-DESIGNED BY — CHECKED BY

ROLAND AU YENG — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — TRAFFIC — Caltrans

LAST REVISION 09-17-09 — DATE PLOTTED => 23-NOV-2009 — TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	32	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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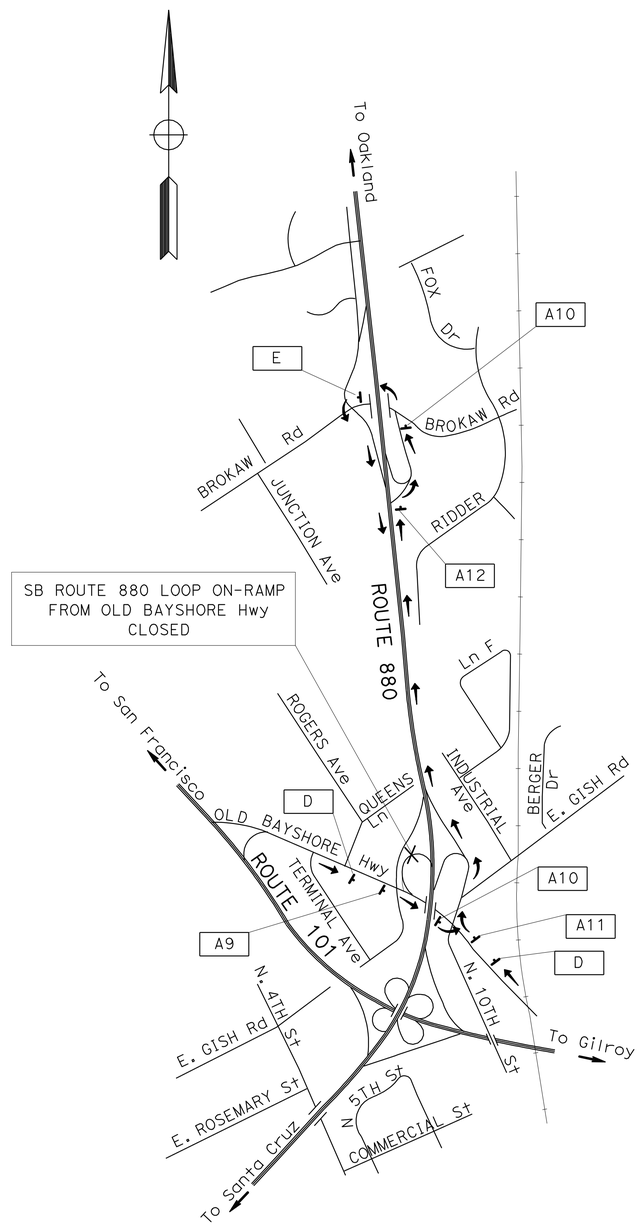
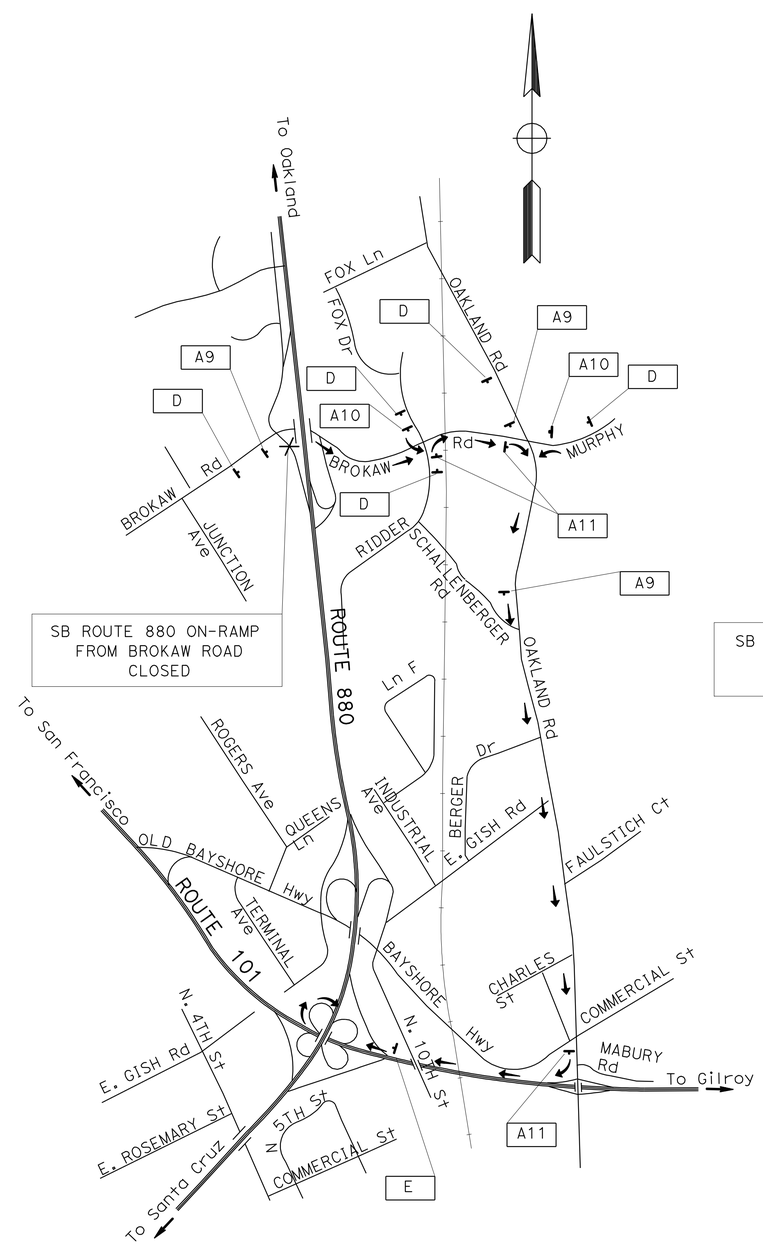


SB ROUTE 880 LOOP ON-RAMP FROM OLD BAYSHORE Hwy CLOSED

DETOUR PLAN 40

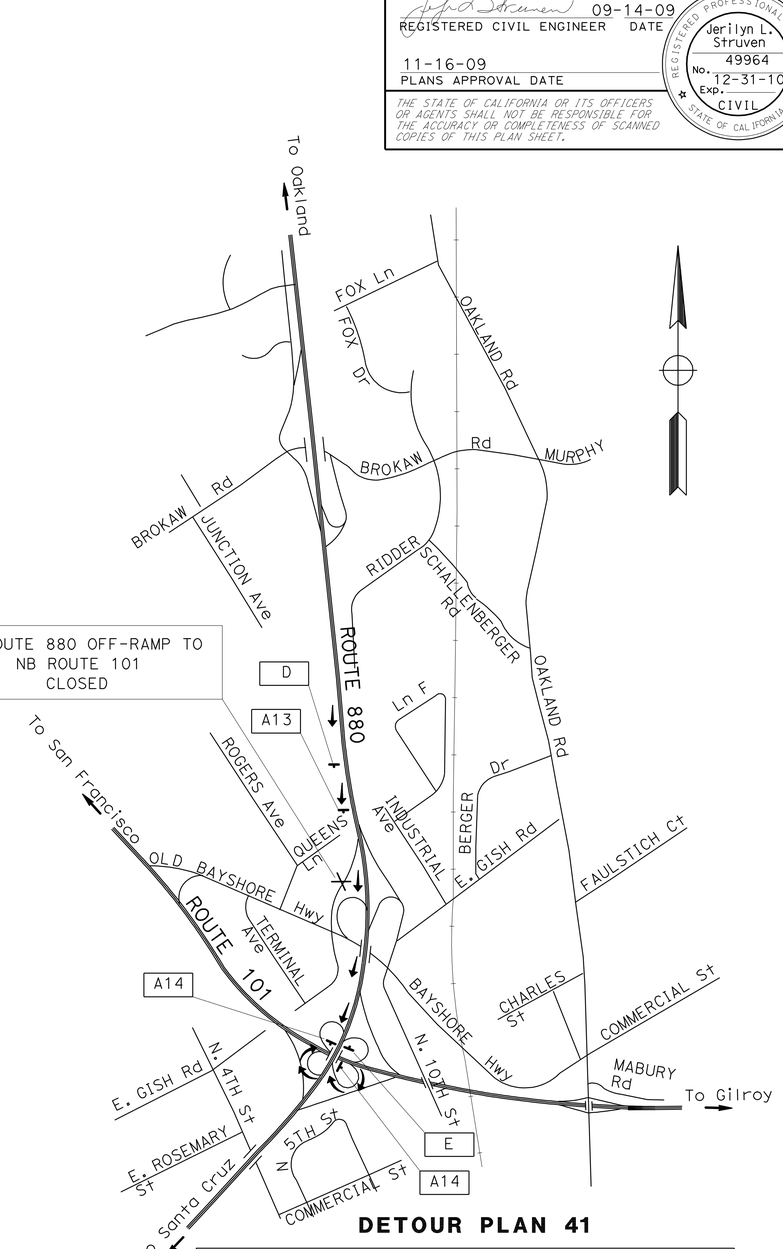
DETOUR → VIA OLD BAYSHORE Hwy;
ON-RAMP TO NB Rte 880;
OFF-RAMP TO WB BROKAW Rd;
FROM WB BROKAW Rd TO
SB Rte 880 ON-RAMP



SB ROUTE 880 ON-RAMP FROM BROKAW ROAD CLOSED

DETOUR PLAN 42

DETOUR → VIA EB BROKAW Rd/WB MURPHY Ave;
SB OAKLAND Rd;
NB ROUTE 101 ON-RAMP;
NB Rte 101 TO Rte 880 I/C



SB ROUTE 880 OFF-RAMP TO NB ROUTE 101 CLOSED

DETOUR PLAN 41

DETOUR → SB ROUTE 880;
LOOP OFF-RAMP TO SB ROUTE 101;
LOOP OFF-RAMP TO NB ROUTE 880;
LOOP ON RAMP TO NB 101

SB 101 ON-RAMP; **CONSTRUCTION AREA SIGNS (DETOUR PLAN)**

NO SCALE

FOR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CS-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-17-09 DATE PLOTTED => 23-NOV-2009 TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	33	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
A	W20-1	ROAD WORK AHEAD	48''x 48''	1- 4''x 6''	23
B	G20-2	END ROAD WORK	36''x 18''	1- 4''x 4''	18
C	C40 (CA)	TRAFFIC FINES DOUBLE IN CONSTRUCTION ZONE	72''x 30''	2- 4''x 6''	6
D	W20-2	DETOUR AHEAD	48''x 48''	1- 4''x 6''	48
E	M4-8a	END DETOUR	24''x 18''	1- 4''x 4''	43
F	M4-8	DETOUR	30''x 15''	1- 4''x 6''	4
	G27-(680)(CA)	ROUTE SHIELD 680	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		
G	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(680)(CA)	ROUTE SHIELD 680	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-1 (←)	LEFT ARROW	21''x 15''		
H	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(680)(CA)	ROUTE SHIELD 680	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		
I	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G28-2(130)(CA)	ROUTE SHIELD 130	28''x 25''		
	M6-3 (↑)	UP ARROW	21''x 15''		
J	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G28-2(130)(CA)	ROUTE SHIELD 130	28''x 25''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		
K	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	G28-2(130)(CA)	ROUTE SHIELD 130	28''x 25''		
	M6-1 (→)	RIGHT ARROW	21''x 15''		
L	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(680)(CA)	ROUTE SHIELD 680	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-1 (→)	RIGHT ARROW	21''x 15''		
M	M4-8	DETOUR	30''x 15''	1- 4''x 6''	3
	G27-2(680)(CA)	ROUTE SHIELD 680	30''x 25''		
	M3-3	SOUTH	24''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		
N	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(680)(CA)	ROUTE SHIELD 680	30''x 25''		
	M3-3	SOUTH	24''x 12''		
	M6-1 (←)	LEFT ARROW	21''x 15''		
O	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	SPECIAL A	King Rd	48''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		

NOTE:

CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA), OTHERWISE, FEDERAL MUTCD CODES ARE SHOWN.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
P	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	SPECIAL A	King Rd	48''x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		
Q	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	SPECIAL A	King Rd	48''x 12''		
	M6-1 (→)	RIGHT ARROW	21''x 15''		
R	M4-8	DETOUR	30''x 15''	1- 4''x 6''	8
	G27-2(280)(CA)	ROUTE SHIELD 280	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		
S	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(280)(CA)	ROUTE SHIELD 280	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-1 (←)	LEFT ARROW	21''x 15''		
T	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(280)(CA)	ROUTE SHIELD 280	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-1 (→)	RIGHT ARROW	21''x 15''		
U	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	SPECIAL B	Blossom Hill Rd	48''x 24''		
	M6-3 (↑)	UP ARROW	21''x 15''		
V	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	SPECIAL B	Blossom Hill Rd	48''x 24''		
	M6-1 (←)	LEFT ARROW	21''x 15''		

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CONSTRUCTION AREA SIGNS
(SIGN QUANTITIES)
NO SCALE

CS-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-17-09 DATE PLOTTED => 23-NOV-2009 TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	34	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
W	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	3
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	24'' x 15''		
X	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	1
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21'' x 15''		
Y	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	NOT USED
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		
Z	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	3
	G26-2(101)(CA)	ROUTE SHIELD 101	28'' x 24''		
	M3-3	SOUTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
AA	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	3
	G26-2(101)(CA)	ROUTE SHIELD 101	28'' x 24''		
	M3-3	SOUTH	24'' x 12''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		
BB	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	1
	SPECIAL C	De La Cruz Blvd	54'' x 24''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
CC	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	SPECIAL C	De La Cruz Blvd	54'' x 24''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		
DD	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	3
	G28-2(85)(CA)	ROUTE SHIELD 85	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
EE	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(85)(CA)	ROUTE SHIELD 85	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		
FF	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(85)(CA)	ROUTE SHIELD 85	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21'' x 15''		
GG	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-1 (←)	LEFT ARROW	21'' x 15''		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
HH	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	1
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
II	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21'' x 15''		
JJ	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-1 (←)	LEFT ARROW	21'' x 15''		
KK	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	NOT USED
	G28-2(82)(CA)	ROUTE SHIELD 82	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
LL	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(85)(CA)	ROUTE SHIELD 85	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CONSTRUCTION AREA SIGNS
(SIGN QUANTITIES)
NO SCALE

CS-18

REVISED BY | DATE REVISED
HENRY TAM | JERILYN STRUVEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ROLAND AU YENG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 09-17-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	35	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
MM	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	1
	G28-2(85)(CA)	ROUTE SHIELD 85	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-1 (←)	LEFT ARROW	21'' x 15''		
NN	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	7
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		
OO	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	11
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
PP	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	9
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-1 (←)	LEFT ARROW	21'' x 15''		
QQ	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	SPECIAL D	CLOSED AHEAD	48'' x 24''		
RR	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-1	NORTH	24'' x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21'' x 15''		
SS	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G27-2(280)(CA)	ROUTE SHIELD 280	30'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
TT	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	G27-2(280)(CA)	ROUTE SHIELD 280	30'' x 25''		
	M3-3	SOUTH	30'' x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21'' x 15''		
UU	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	NOT USED
	G27-2(280)(CA)	ROUTE SHIELD 280	30'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-1 (←)	LEFT ARROW	21'' x 15''		
VV	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	12
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-3 (↑)	UP ARROW	21'' x 15''		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
WW	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	7
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-1 (←)	LEFT ARROW	21'' x 15''		
XX	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	3
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-3 (↗)	UP RIGHT ARROW	21'' x 15''		
YY	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	SPECIAL E	Camden Ave	48'' x 24''		
	M6-3 (↑)	UP ARROW	21'' x 15''		
ZZ	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	SPECIAL E	Camden Ave	48'' x 24''		
	M6-3 (↗)	UP RIGHT ARROW	21'' x 15''		
A1	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	2
	SPECIAL E	Camden Ave	48'' x 24''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		
A2	M4-8	DETOUR	30'' x 15''	1 - 4'' x 6''	8
	G28-2(17)(CA)	ROUTE SHIELD 17	24'' x 25''		
	M3-3	SOUTH	24'' x 12''		
	M6-1 (→)	RIGHT ARROW	21'' x 15''		

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CONSTRUCTION AREA SIGNS
(SIGN QUANTITIES)
NO SCALE

CS-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-17-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	36	58

REGISTERED CIVIL ENGINEER 09-14-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
A3	M4-8	DETOUR	30''x 15''	1- 4''x 6''	8
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		
A4	M4-8	DETOUR	30''x 15''	1- 4''x 6''	6
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-3 (←)	LEFT ARROW	21''x 15''		
A5	M4-8	DETOUR	30''x 15''	1- 4''x 6''	3
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		
A6	M4-8	DETOUR	30''x 15''	1- 4''x 6''	3
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-1 (→)	RIGHT ARROW	21''x 15''		
A7	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G27-2(280)(CA)	ROUTE SHIELD 280	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		
A8	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	G27-2(280)(CA)	ROUTE SHIELD 280	30''x 25''		
	M3-1	NORTH	24''x 12''		
	M6-1 (↖)	UP LEFT ARROW	21''x 15''		
A9	M4-8	DETOUR	30''x 15''	1- 4''x 6''	5
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-3	SOUTH	24''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		
A10	M4-8	DETOUR	30''x 15''	1- 4''x 6''	6
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-3	SOUTH	24''x 12''		
	M6-1 (←)	LEFT ARROW	21''x 15''		
A11	M4-8	DETOUR	30''x 15''	1- 4''x 6''	4
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-3	SOUTH	24''x 12''		
	M6-1 (→)	RIGHT ARROW	21''x 15''		
A12	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	G27-2(880)(CA)	ROUTE SHIELD 880	30''x 25''		
	M3-3	SOUTH	24''x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY (EA)
A13	M4-8	DETOUR	30''x 15''	1- 4''x 6''	1
	G26-2(101)(CA)	ROUTE SHIELD 101	28''x 24''		
	M3-1	NORTH	24''x 12''		
	M6-3 (↑)	UP ARROW	21''x 15''		
A14	M4-8	DETOUR	30''x 15''	1- 4''x 6''	2
	G26-2(101)(CA)	ROUTE SHIELD 101	28''x 24''		
	M3-1	NORTH	24''x 12''		
	M6-2 (↗)	UP RIGHT ARROW	21''x 15''		

SPECIAL A 6" & 4½"

King Rd

BLACK/ORANGE

48" x 12"

SPECIAL B 6" & 4½"

Blossom Hill Rd

BLACK/ORANGE

48" x 24"

SPECIAL E 6" & 4½"

Camden Ave

BLACK/ORANGE

48" x 24"

SPECIAL C 6" & 4½"

De La Cruz Blvd

BLACK/ORANGE

54" x 24"

SPECIAL D 6"CAP

CLOSED AHEAD

BLACK/ORANGE

48" x 24"

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN AND DETOUR PLANS WORK ONLY

CONSTRUCTION AREA SIGNS
(SIGN QUANTITIES)
NO SCALE

CS-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU YENG
CALCULATED-DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISED BY
DATE REVISED

LAST REVISION 09-17-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	37	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE (LF)	REMOVE: REMOVE MBGR (LF)	REMOVE: REMOVE MARKER (EA)	REMOVE: REMOVE TERMINAL SECTION (N) (EA)	INSTALL: GUARD RAILING DELINEATOR (EA)	INSTALL: HOT MIX ASPHALT DIKE (TYPE C) (LF)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F) (LF)	INSTALL: MINOR HOT MIX ASPHALT (TON)	INSTALL: OBJECT MARKER (TYPE L-1) (EA)	INSTALL: OBJECT MARKER (TYPE P) (EA)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE) (CY)	INSTALL: MBGR (WOOD POST) (LF)	INSTALL: TRANSITION RAILING (TYPE WB) (EA)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT) (EA)	COMMENTS
1	18	RIGHT SHOULDER - CURVE SEGMENT	9	3.9	NB		50			2							50					BURY END
2	18	RIGHT SHOULDER - CURVE SEGMENT		4.2			50			2							50					BURY END
3	11	BY THE PUMP HOUSE		6.2		100	75.0	1	2	3	100		0.77	1					2			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
4	11	RIGHT SHOULDER - CURVE SEGMENT		6.4			75.0	1	2	3				1					2			
5	11	RIGHT SHOULDER - CURVE SEGMENT		6.6			75.0	1	2	3				1					2			
6	2	SARATOGA CREEK 37-78		6.7			62.5	1	1	2				1	1	1.41		1	1			
7	5	SARATOGA CREEK 37-78		6.7			62.5		1	2								1	1			
8	11	VILLA MONTALVO ENTRANCE		7.9			75.0	1	2	3				1					2			
9	8	AT BLYTHSWOOD Rd		9.9		62.5	37.5	1	1	1	62.5		0.48	1					1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
10	1	LOS GATOS CREEK 37-138		11.3	NB	62.5	62.5	1	1	2	37.5	25	0.62	1	1			1	1			
11	11	AFTER 6TH STREET		6.8	SB		75.0	1	2	3				1					2			
12	8	BEFORE AMBRICK KNOLL Rd		6.9			37.5	1	1	1				1					1			
13	8	AFTER AMBRICK KNOLL Rd		6.8			37.5	1	1	1				1					1			
14	8	RIGHT SHOULDER - CURVE SEGMENT		6.5			37.5	1	1	1				1					1			
15	8	RIGHT SHOULDER - CURVE SEGMENT		6.4			37.5	1	1	1				1					1			
16	8	RIGHT SHOULDER - CURVE SEGMENT		6.4			37.5	1	1	1				1					1			
17	17	AT SARATOGA CREEK 37-75		5.5			50	1	1	2					1			1				BURY END
18	5	AT SARATOGA CREEK 37-75		5.5		62.5	62.5		1	2	37.5	25	0.62					1	1			
19	8	BEFORE CAMPGROUND		5.0			37.5	1	1	1				1					1			
20	3	PAST BOOKER CREEK Rd		3.6			75.0			3				1	1	1.41		1		1		
21	6	BY BOOKER CREEK Rd	9	3.6	SB		25.0			3						1.41		1				UPGRADED TRAIL END
22	1	ATTACHED TO CONCRETE BARRIER PAST SUMMIT Rd	17	0.1	NB		62.5	1	1	2				1	1			1	1			
23	8	RIGHT SHOULDER - CURVE SEGMENT		0.6			37.5	1	1	1				1					1			
24	1	BEFORE JESSIE WAY		1.0			62.5	1	1	2				1	1			1	1			
25	8	PAST HOLY CITY		1.3			37.5	1	1	1				1					1			
26	8	BEFORE U-CURVE		1.5		62.5	37.5	1	1	1	62.5		0.48	1					1			
27	8	AT THE U-CURVE		1.8			37.5	1	1	1				1					1			
28	8	AT THE U-CURVE		2.0			37.5	1	1	1				1					1			
29	8	AT THE END OF THE U-CURVE		2.2			37.5	1	1	1				1					1			
30	8	AT RANIERI	17	2.3	NB	62.5	37.5	1	1	1	62.5		0.48	1					1			
		SHEET TOTAL				412.5	1525	24	31	53	362.5	50	3.45	24	6	4.23	100	9	30	1	0	

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

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-17-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	38	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE (LF)	REMOVE: REMOVE MBGR (LF)	REMOVE: REMOVE MARKER (EA)	REMOVE: REMOVE TERMINAL SECTION (N) (EA)	INSTALL: GUARD RAILING DELINEATOR (EA)	INSTALL: HOT MIX ASPHALT DIKE (TYPE C) (LF)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F) (LF)	INSTALL: MINOR HOT MIX ASPHALT (TON)	INSTALL: OBJECT MARKER (TYPE L-1) (EA)	INSTALL: OBJECT MARKER (TYPE P) (EA)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE) (CY)	INSTALL: MBGR (WOOD POST) (LF)	INSTALL: TRANSITION RAILING (TYPE WB) (EA)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT) (EA)	COMMENTS
31	10	AT IDYLWILD Dr	17	2.5	NB	75	50	1	1	2	75		0.58	1						1	1	PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
32	10	AT HEBARD		2.7		75	50	1	1	2	75		0.58	1						1	1	PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
33	8	RIGHT SHOULDER - CURVE SEGMENT		3.0			37.5	1	1	1				1					1			
34	1	BEFORE BEAR CREEK Rd		3.5			62.5	1	1	2				1	1			1	1			
35	1	ACROSS FROM BLACK Rd		3.7			62.5	1	1	2				1	1			1	1			
36	8	BY LEXINGTON RESERVOIR		4.3			37.5		1	1				1					1			
37	8	BY LEXINGTON RESERVOIR		4.4		62.5	37.5	1	1	1	62.5		0.48	1					1			
38	8	RIGHT SHOULDER - CURVE SEGMENT		5.2			37.5		1	1				1					1			
39	1	RIGHT SHOULDER - CURVE SEGMENT		5.3			62.5		1	2				1	1			1	1		1	
40	2	SARATOGA ON-RAMP		7.0			62.5	1	1	2				1	1	1.41		1	1		1	
41	9	SIGN PROTECTION - LARK Ave/JUNCTION 85/CAMDEN Ave		7.3			37.5	1	1	1				1					1		1	
42	1	SIGN PROTECTION - LARK Ave		8.1		87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
43	1	ROUTE 85 ON-RAMP		9.3		87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
44	1	SB 85 / LARK Ave ON RAMP (RIGHT SIDE)		9.4			62.5	1	1	2				1	1			1	1			
45	1	SB 85 / LARK Ave ON-AMP (LEFT SIDE)		9.4			62.5	1	1	2				1	1			1	1			
46	2	AT MOZART POC		9.6			62.5		1	2				1	1	1.41		1	1			
47	9	SIGN PROTECTION - CAMDEN Ave/SAN TOMAS Expwy		9.7		62.5	37.5	1	1	1	62.5		0.48	1					1		1	PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
48	2	ACROSS FROM BRIDGE SIGN		10.1			62.5	1	1	2				1	1	1.41		1	1			
49	9	SIGN PROTECTION-HAMILTON Ave/JUNCTION 280/STEVENS CREEK Blvd		11.4			37.5	1	1	1				1					1		1	
50	9	SIGN PROTECTION - HAMILTON Ave		12.1			37.5	1	1	1				1					1		1	
51	2	AT CAMPBELL UP		12.2			62.5	1	1	2				1	1	1.41		1	1			
52	2	AT HAMILTON Ave OC		12.3		87.5	62.5	1	1	2	62.5	25	0.82	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
53	8	BETWEEN HAMILTON AND WESTFIELD		12.4			37.5	1	1	1				1					1			
54	9	BETWEEN WESTFIELD AND ROUTE 280		13.3			37.5	1	1	1				1					1		1	
55	9	BRIDGE SIGN PROTECTION		13.4	NB		37.5		1	1				1					1		1	
56	2	BEFORE HAMILTON Ave OFF-RAMP		13.5	SB	87.5	62.5	1	1	2	62.5	25	0.82	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
57	2	HAMILTON OC		12.3		87.5	62.5		1	2	62.5	25	0.82	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
58	2	LOS GATOS CREEK BRIDGE		12.1			62.5	1	1	2				1	1	1.41		1	1			
59	4	BETWEEN LOS GATOS CREEK AND CAMPBELL UC		11.8			50			2						2.82		2				
60	8	SIGN PROTECTION - CAMPBELL Ave/SAN TOMAS Expwy	17	11.7	SB		37.5	1	1	1				1					1			
		SHEET TOTAL				712.5	1537.5	23	29	48	587.5	125	6.22	29	15	14.1	0	17	27	2	10	

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

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-15-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	39	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE (LF)	REMOVE: REMOVE MBGR (LF)	REMOVE: REMOVE MARKER (EA)	REMOVE: REMOVE TERMINAL SECTION (N) (EA)	INSTALL: GUARD RAILING DELINEATOR (EA)	INSTALL: HOT MIX ASPHALT DIKE (TYPE C) (LF)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F) (LF)	INSTALL: MINOR HOT MIX ASPHALT (TON)	INSTALL: OBJECT MARKER (TYPE L-1) (EA)	INSTALL: OBJECT MARKER (TYPE P) (EA)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE) (CY)	INSTALL: MBGR (WOOD POST) (LF)	INSTALL: TRANSITION RAILING (TYPE WB) (EA)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT) (EA)	COMMENTS
61	10	BEFORE CAMDEN OFF-RAMP	17	10.6	SB		50			2				1						1	1	
62	9	SIGN PROTECTION - JUNCTION 85/LARK Ave/JUNCTION 9		10.6			37.5	1	1	1				1					1		1	
63	9	SIGN PROTECTION - ROUTE 85/MOUNTAIN VIEW/GILROY		9.8			37.5	1	1	1				1					1		1	
64	9	SIGN PROTECTION - ROUTE 85/MOUNTAIN VIEW/GILROY		9.7			37.5	1	1	1				1					1		1	
65	1	OFF-RAMP TO ROUTE 85		9.6			62.5	1	1	2				1	1			1	1			
66	1	ROUTE 85/17 SEPARATION		9.3			62.5	1	1	2				1	1			1	1			
67	1	NB ROUTE 85 TO SB ROUTE 17 LOOP RAMP		9.2			62.5	1	1	2				1	1			1	1			
68	2	SIGN PROTECTION - LARK Ave		9.0		87.5	62.5	1	1	2	62.5	25	0.82	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
69	2	LARK Ave ON-RAMP TO SB ROUTE 17		8.9			62.5	1	1	2				1	1	1.41		1	1			
70	8	BETWEEN LARK Ave AND BLOSSOM HILL Rd		8.1			37.5	1	1	1				1					1			
71	2	BLOSSOM HILL Rd OC		7.7			62.5	1	1	2				1	1	1.41		1	1			
72	8	BETWEEN BLOSSOM HILL Rd AND SARATOGA Ave		7.3			37.5	1	1	1				1					1			
73	2	SARATOGA Ave ON-RAMP		7.1			62.5	1	1	2				1	1	1.41		1	1			
74	2	BEFORE LOS GATOS POC		6.7			62.5	1	1	2				1	1	1.41		1	1			
75	2	AT SANTA CRUZ Ave UC		6.2			62.5	1	1	2				1	1	1.41		1	1			
76	9	CMS PROTECTION AT SANTA CRUZ Ave ON-RAMP		6.2			37.5		1	1				1					1		1	
77	8	BETWEEN BEAR CREEK AND ALMA Rd		3.5			37.5		1	1				1					1			
78	8	PAST ALMA/ COLLEGE Rd		3.2			37.5	1	1	1				1					1			
79	8	CURVE SEGMENT - AFTER BRUSH Rd		2.0			37.5		1	1				1					1			
80	8	END OF U-CURVE		1.8			37.5		1	1				1					1			
81	1	MADRONE Dr	17	1.3	SB		62.5		1	2				1	1			1	1			
82	1	PAJARO RIVER BRIDGE	25	0.0	EB		25			1					1			1				UPGRADED APPROACH END
83	5	PAJARO RIVER BRIDGE		0.0	EB		62.5		1	2								1	1			
84	1	PAJARO RIVER BRIDGE		0.0	WB		25			1					1			1				UPGRADED APPROACH END
85	5	PAJARO RIVER BRIDGE		0.0	WB		62.5		1	2								1	1			
86	12	BEFORE UESEGUI FARM		0.5	EB					16							400		1			NEW MBGR OFFSET FROM ROADWAY SHALL CONFORM TO EXISTING
87	16	BEFORE Z-BEST FARM		0.6	EB					40				1			1000		2			NEW MBGR OFFSET FROM ROADWAY SHALL CONFORM TO EXISTING
88	1	CARNADERO CREEK BRIDGE		1.5	WB		25			1					1			1				UPGRADED APPROACH END
89	5	CARNADERO CREEK BRIDGE		1.5	WB	87.5	62.5		1	2	62.5	25	0.82					1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
90	1	CARNADERO CREEK BRIDGE	25	1.5	EB		25			1				1				1				UPGRADED APPROACH END
		SHEET TOTAL				175	1337.5	15	23	98	125	50	1.64	23	13	8.46	1400	17	26	1	5	

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

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-17-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	40	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE (LF)	REMOVE: REMOVE MBGR (LF)	REMOVE: REMOVE MARKER (EA)	REMOVE: REMOVE TERMINAL SECTION (N) (EA)	INSTALL: GUARD RAILING DELINEATOR (EA)	INSTALL: HOT MIX ASPHALT DIKE (TYPE C) (LF)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F) (LF)	INSTALL: MINOR HOT MIX ASPHALT (TON)	INSTALL: OBJECT MARKER (TYPE L-1) (EA)	INSTALL: OBJECT MARKER (TYPE P) (EA)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE) (CY)	INSTALL: MBGR (WOOD POST) (LF)	INSTALL: TRANSITION RAILING (TYPE WB) (EA)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT) (EA)	COMMENTS
91	5	CARNADERO CREEK BRIDGE	25	1.5	EB		62.5		1	2					1			1	1			
92	11	GX-MILLER RAILROAD CROSSING		2.1	WB		75	1	2	3				1					2			
93	1	JUNCTION ROUTE 101/25 BRIDGE		2.5			25			1					1			1				UPGRADED APPROACH END
94	4	JUNCTION ROUTE 101/25 BRIDGE		2.5	WB		50			2								2				
95	1	JUNCTION ROUTE 101/25 BRIDGE		2.5	EB		62.5	1	1	2				1	1			1	1			
96	7	JUNCTION ROUTE 101/25 BRIDGE	25	2.5	EB		25			1								1				UPGRADED TRAIL END
97	2	ROUTE 17/35 SEPARATION	35	0.0	NB		62.5		1	2				1	1	1.41		1	1			
98	4	CURVE SEGMENT		0.3			50	1	2	1				1		2.82		2				
99	1	CURVE SEGMENT BEFORE THOMPSON Rd		5.6		87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
100	4	CONCRETE BARRIER TO CONCRETE BARRIER		5.7			50			2						2.82		2				
101	5	AFTER CONCRETER BARRIER		5.7			62.5		1	2								1	1			
102	1	CURVE SEGMENT		5.8	NB		62.5	1	1	2				1	1			1	1			
103	5	AFTER CONCRETER BARRIER		5.8	SB		62.5		1	2								1	1			
104	1	CURVE SEGMENT		4.5			62.5	1	1	2				1	1			1	1			
105	5	AFTER CONCRETER BARRIER		4.5			62.5		1	2								1	1			
106	11	CURVE SEGMENT		4.4		100	75	1	2	3	100		0.77	1					2			
107	11	CURVE SEGMENT		3.5			75	1	2	3				1					2			
108	11	CURVE SEGMENT		0.4			75	1	2	3				1					2			
109	2	SB ROUTE 17 OFF-RAMP	35	0.0	SB	87.5	62.5	1	1	1	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
110	3	NB ROUTE 82 TO WB BLOSSOM HILL Rd LOOP RAMP	82	0.3	NB		75	1	1	3					1			1		1		
111	1	EB BLOSSOM HILL Rd TO ROUTE 101 ON-RAMP		0.2	NB	87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
112	1	EB BLOSSOM HILL Rd OC (RIGHT SIDE)		0.2	SB		62.5	1	1	2				1	1			1	1			
113	1	EB BLOSSOM HILL Rd OC (LEFT SIDE)		0.2	SB		62.5	1	1	2				1	1			1	1			
114	1	WB BLOSSOM HILL OC (LEFT SIDE)		0.2	NB		62.5		1					1	1			1	1			
114A	1	WB BLOSSOM HILL OC (RIGHT SIDE)		0.2	NB		62.5		1					1	1			1	1			
115	9	DELA CRUZ OFF-RAMP		11.2			37.5		1	1				1					1		1	
116	1	DELA CRUZ OFF-RAMP (RIGHT SIDE)		11.2			62.5		1	2				1	1			1	1			
117	1	DELA CRUZ OFF-RAMP (LEFT SIDE)		11.2			62.5		1	2				1	1			1	1			
118	8	DIAGONAL RAMP		18.8			37.5		1	1				1					1			
119	3	LOOP RAMP		18.8	NB		75.0		1	3				1	1			1		1		
120	3	LOOP RAMP	82	18.8	SB		75.0		1	3				1	1			1		1		
SHEET TOTAL			SHEET TOTAL			362.5	1862.5	14	32	59	287.5	75	3.23	22	18	7.05	0	28	27	3	1	

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

SUMMARY OF QUANTITIES

Q-4

REVISED BY | DATE REVISED

JAY RADOC | PATRICK YIP

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: GEORGE LO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

LAST REVISION 09-27-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	41	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE (LF)	REMOVE: REMOVE MBGR (LF)	REMOVE: REMOVE MARKER (EA)	REMOVE: REMOVE TERMINAL SECTION (N) (EA)	INSTALL: GUARD RAILING DELINEATOR (EA)	INSTALL: HOT MIX ASPHALT DIKE (TYPE C) (LF)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F) (LF)	INSTALL: MINOR HOT MIX ASPHALT (TON)	INSTALL: OBJECT MARKER (TYPE L-1) (EA)	INSTALL: OBJECT MARKER (TYPE P) (EA)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE) (CY)	INSTALL: MBGR (WOOD POST) (LF)	INSTALL: TRANSITION RAILING (TYPE WB) (EA)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT) (EA)	COMMENTS
121	10	LOOP RAMP	82	18.8	NB		50	1	1	2				1						1	1	
122	10	LOOP RAMP	82	18.8	SB		50	1	1	2				1						1	1	
123	14	AT CLAYTON Rd	130	6.1	EB		87.5		2	3				1					1	1		
124	13	BEFORE PRIVATE DRIVEWAY		6.3		50	87.5		1	3	50		0.39	1					1	1		
125	15	AFTER PRIVATE DRIVEWAY		6.4		100	100.0		2	4	100		0.77							2		
126	15	CURVE SEGMENT		6.8			100.0		2	4										2		
127	15	CURVE SEGMENT		7.0			100.0		2	4										2		
128	13	CURVE SEGMENT	130	7.5	EB		87.5		2	3				1					1	1		
129	11	CURVE SEGMENT	152	3.3	EB		75.0	1	2	3				1					2			
130	11	CURVE SEGMENT		3.8			75.0	1	2	3				1					2			
131	11	AT THE HEADWALL		4.3			75.0	1	2	3				1					2			
132	11	AT BODFISH CREEK BRIDGE 37-46		6.1			75.0	1	2	3				1					2			
133	11	WEST OF BONFANTE PARK ENTRANCE		6.3			75.0	1	2	3				1					2			
134	11	EAST OF BONFANTE PARK ENTRANCE		6.4			75.0	1	2	3				1					2			
135	1	AT LLAGAS CREEK 37-402		11.2			62.5		1	2								1	1			
136	1	AT LLAGAS CREEK 37-402		11.2			25			2				1	1			1				UPGRADED APPROACH END
137	8	FRAZER RD (SW SEGMENT)		11.9			37.5		1	1				1					1			
138	8	FRAZER RD (SE SEGMENT)		11.9			37.5	1	1	1				1					1			
139	11	DEXTER CREEK 37-25		12.3			75.0	1	2	3				1					2			
140	1	JOHNSON CREEK 37-26		12.6			62.5	1	1	2				1	1			1	1			
141	5	JOHNSON CREEK 37-26		12.6			62.5		1	2								1	1			
142	8	CANADA Rd		13.3			37.5	1	1	1				1					1			
143	1	JONES CREEK 37-27		13.8			62.5	1	1	2				1	1			1	1			
144	5	JONES CREEK 37-27		13.8			62.5		1	2								1	1			
145	11	PRUNEDALE Ave		14.4	EB		75		2	3				1					2			
146	11	BLOOMFIELD Rd		14.9	WB		75		2	3				1					2			
147	11	PRUNEDALE Ave		14.4			75		2	3				1					2			
148	1	JONES CREEK 37-27		13.8			62.5	1	1	2				1	1			1	1			
149	5	JONES CREEK 37-27		13.8			62.5		1	2								1	1			
150	1	JOHNSON CREEK 37-26	152	12.6	WB	87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			
SHEET TOTAL						237.5	2050	15	44	76	212.5	25	1.98	23	5	0	0	9	34	11	2	

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

SUMMARY OF QUANTITIES

Q-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-17-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	42	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE (LF)	REMOVE: REMOVE MBGR (LF)	REMOVE: REMOVE MARKER (EA)	REMOVE: REMOVE TERMINAL SECTION (N) (EA)	INSTALL: GUARD RAILING DELINEATOR (EA)	INSTALL: HOT MIX ASPHALT DIKE (TYPE C) (LF)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F) (LF)	INSTALL: MINOR HOT MIX ASPHALT (TON)	INSTALL: OBJECT MARKER (TYPE L-1) (EA)	INSTALL: OBJECT MARKER (TYPE P) (EA)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE) (CY)	INSTALL: MBGR (WOOD POST) (LF)	INSTALL: TRANSITION RAILING (TYPE WB) (EA)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT) (EA)	COMMENTS
151	5	JOHNSON CREEK 37-26	152	12.6	WB		62.5		1	2								1	1			
152	11	DEXTER CREEK 37-25		12.3			75	1	2	3				1					2			
153	1	LLAGAS CREEK 37-24		11.3			25			2				1				1				UPGRADED APPROACH END
154	5	LLAGAS CREEK 37-24		11.3			62.5		1	2								1	1			
155	1	LLAGAS CREEK 37-402		11.2			25			2				1				1				UPGRADED APPROACH END
156	5	LLAGAS CREEK 37-402		11.2			62.5		1	2								1	1			
157	11	BODFISH CREEK 37-46		6.1			75	1	2	3				1					2			
158	11	AT THE HEADWALL	152	6.1	WB		75	1	2	3				1					2			
159	9	SIGN PROTECTION - JACKSON Ave/KING Rd	680	0.0	NB		37.5		1	1				1					1		1	
160	2	PARK SERVICE Rd UC 337-354 QR		0.2			62.5	1	1	2				1	1	1.41		1	1			
161	4	SB ROUTE 101 TO NB ROUTE 680 RAMP		0.4			50			2					1	2.82		2				
162	2	SIGN PROTECTION - ALUM ROCK Ave/CAPITOL Expwy		1.1			62.5	1	1	2				1	1	1.41		1	1			
163	9	SIGN PROTECTION - MCKEE Rd/ALUM ROCK		1.3			37.5		1	1				1					1		1	
164	2	OFF-RAMP TO ALUM ROCK/ROUTE 130		1.4			62.5	1	1	2				1	1	1.41		1	1			
165	8	MCKEE Rd ON-RAMP		M2.4	NB	62.5	37.5	1	1	1	62.5		0.48	1					1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
166	8	OFF RAMP TO MCKEE Rd		M2.4	SB		37.5	1	1	1				1					1			
167	8	ALUM ROCK ON-RAMP		M1.7			37.5	1	1	1				1					1			
168	8	CAPITOL Expwy LOOP RAMP TO WB ROUTE 680		1.41			37.5	1	1	1				1					1			
169	2	JACKSON AVE UC 37-287		M1.3			62.5	1	1	2				1	1	1.41		1	1			
170	9	SIGN PROTECTION - LOS ANGELES/SAN FRANCISCO		0.4			37.5	1	1	1				1					1		1	
171	2	KING Rd UC 37-286		M0.5			62.5	1	1	2				1	1	1.41		1	1			
172	1	ROUTE 101 OFF-RAMP		M0.3			62.5	1	1	2				1	1			1	1			
173	2	KING RD ON-RAMP		M0.2		87.5	62.5	1	1	2	62.5	25	0.82	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
174	2	ROUTE 101 UC	680	M0.0	SB	87.5	62.5	1	1	2	62.5	25	0.82	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
175	9	COLUMN PROTECTION	880	0.1	NB		37.5	1	1	1				1					1		1	
176	9	CAMERA POLE AND ELECTRICAL CABINET PROTECTION		0.1			37.5	1	1	1				1					1		1	
177	1	FORREST Ave UC 37-173		0.7			62.5	1	1	2				1	1			1	1			
178	1	BASCOM Ave UC 37-126		1.3			62.5	1	1	2				1	1			1	1			
179	2	ROUTE 82/880		2.1		62.5	62.5	1	1	2	62.5		0.48	1	1	1.41		1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE,TYPE C
180	1	GUADALUPE RIVER BRIDGE 37-176	880	3.2	NB		62.5	1	1	2				1	1			1	1			
SHEET TOTAL						300	1600	22	30	54	250	50	2.6	26	13	14.1	0	19	30	0	5	

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

SUMMARY OF QUANTITIES

Q-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: GEORGE LO
CALCULATED-DESIGNED BY: JAY RADOC
CHECKED BY: PATRICK YIP
REVISED BY
DATE REVISED

LAST REVISION 09-17-09
DATE PLOTTED => 23-NOV-2009
TIME PLOTTED => 12:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	Var	Var	43	58

REGISTERED CIVIL ENGINEER 09-10-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Patrick Yip No. 44277 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.

ROADSIDE QUANTITIES

LOCATION No.	DETAIL No.	WORK AREA DESCRIPTION	ROUTE	PM	DIRECTION	REMOVE: REMOVE AC DIKE	REMOVE: REMOVE MBGR	REMOVE: REMOVE MARKER	REMOVE: REMOVE TERMINAL SECTION (N)	INSTALL: GUARD RAILING DELINEATOR	INSTALL: HOT MIX ASPHALT DIKE (TYPE C)	INSTALL: HOT MIX ASPHALT DIKE (TYPE F)	INSTALL: MINOR HOT MIX ASPHALT	INSTALL: OBJECT MARKER (TYPE L-1)	INSTALL: OBJECT MARKER (TYPE P)	INSTALL: MINOR CONCRETE (MINOR STRUCTURE)	INSTALL: MBGR (WOOD POST)	INSTALL: TRANSITION RAILING (TYPE WB)	INSTALL: ALTERNATIVE FLARED TERMINAL SYSTEM	INSTALL: ALTERNATIVE IN-LINE TERMINAL SYSTEM	INSTALL: END ANCHOR ASSSEMBLY (TYPE SFT)	COMMENTS
						LF		EA		EA	LF		TON	EA		CY	LF	EA				
181	1	NORTH FIRST STREET UC 37-140	880	3.2	NB	87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
182	1	NORTH FOURTH STREET UC 37-141		3.6		87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
183	9	SIGN PROTECTION - ROUTE 101/LOS ANGELES/SAN FRANCISCO		3.8		62.5	37.5	1	1	1	62.5		0.48	1					1		1	PROVIDE 25 LF ADDITIONAL HMA DIKE, TYPE C
184	1	ROUTE 101 LOOP ON-RAMP		3.9		87.5	62.5	1	1	2	62.5	25	0.82	1	1			1	1			
185	1	OLD BAYSHORE UC 37-120		4.1			62.5	1	1	2				1	1			1	1			
186	9	GREAT MALL PARKWAY OC 37-4Ø6		4.3			37.5	1	1	1				1					1		1	
187	9	SIGN PROTECTION - DIXON LANDING Rd		7.7			37.5	1	1	1				1					1		1	
188	9	SIGN PROTECTION - DIXON LANDING Rd/MISSION Blvd		9.7			37.5	1	1	1				1					1		1	
189	9	SIGN PROTECTION - DIXON LANDING Rd OFF-RAMP		10.0	NB		37.5	1	1	1				1					1		1	
190	9	SIGN PROTECTION - ROUTE 237-WEST/MOUNTAIN VIEW		9.3	SB		37.5	1	1	1				1					1		1	
191	9	SIGN PROTECTION - CALAVERAS Blvd/McCARTHY Blvd/MOUNTAIN VIEW		8.7			37.5	1	1	1				1					1		1	
192	9	SIGN PROTECTION - MONTAGUE Expwy		7.3			37.5	1	1	1				1					1		1	
193	9	SIGN PROTECTION - MONTAGUE Expwy		7.0			37.5	1	1	1				1					1		1	
194	9	SIGN PROTECTION - BROKAW Rd/JUNCTION 101 - NORTH/SOUTH		6.2			37.5	1	1	1				1					1		1	
195	1	COYOTE CREEK BRIDGE 37-65/CMS		5.5			25	1		2				1	1			1				UPGRADED APPROACH END
196	1	ATTACHED TO CONCRETE BARRIER		5.1			25	1		2				1	1			1				UPGRADED APPROACH END
197	1	OLD BAYSHORE OFF-RAMP		4.5			25	1		2				1	1			1				UPGRADED APPROACH END
198	1	OLD BAYSHORE ON-RAMP		4.3			62.5	1	1	2				1	1			1	1			
199	1	ROUTE 101 ON-RAMP		4.1			62.5	1	1	2				1	1			1	1			
200	1	NORTH FIRST STREET ON-RAMP		3.6			25	1		2				1	1			1				UPGRADED APPROACH END
201	1	BEFORE COLEMAN AVE OC		2.7			25	1		2				1	1			1				UPGRADED APPROACH END
202	9	SIGN PROTECTION - STEVENS CREEK Blvd/BASCOM Ave		1.3			37.5	1	1	1				1					1		1	
203	1	BASCOM Ave ON-RAMP		0.9			62.5	1	1	2				1	1			1	1			
204	9	NB ROUTE 280 OFF-RAMP		0.2			37.5	1	1	1				1					1		1	
205	9	BEFORE ROUTES 280/880 IC	880	0.1	SB	62.5	37.5	1	1	1	62.5		0.48	1					1		1	
SHEET TOTAL						387.5	1050	25	20	37	312.5	75	3.42	25	12	0	0	12	20	0	13	
TOTAL						2587.5	10962.5	138	209	425	2137.5	450	22.34	172	82	47.92	1500	111	194	18	36	

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

SUMMARY OF QUANTITIES

Q-7

REVISED BY | DATE REVISED

JAY RADOC | PATRICK YIP

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: GEORGE LO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

LAST REVISION 09-17-09 | DATE PLOTTED => 23-NOV-2009 | TIME PLOTTED => 12:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	44	58

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

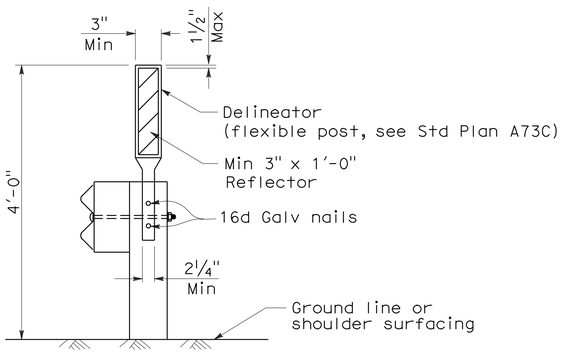
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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 11-16-09

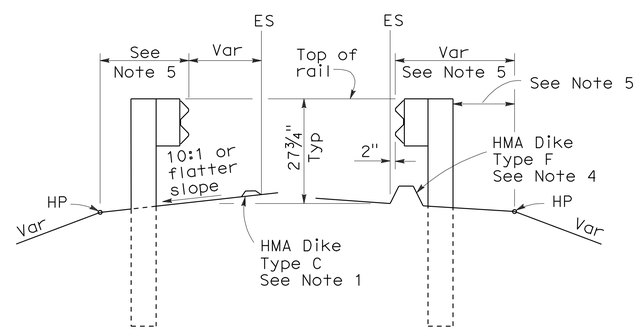
NOTES:

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

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

2006 REVISED STANDARD PLAN RSP A77C4

12-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	45	58

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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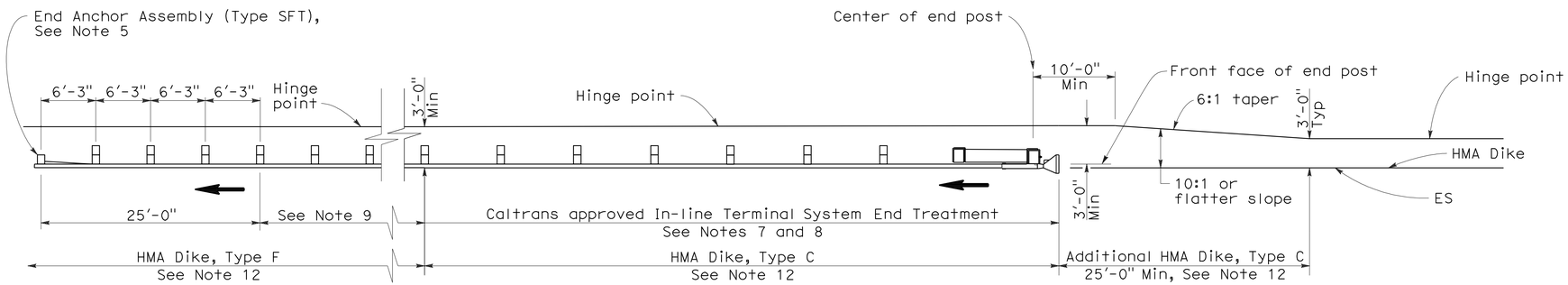
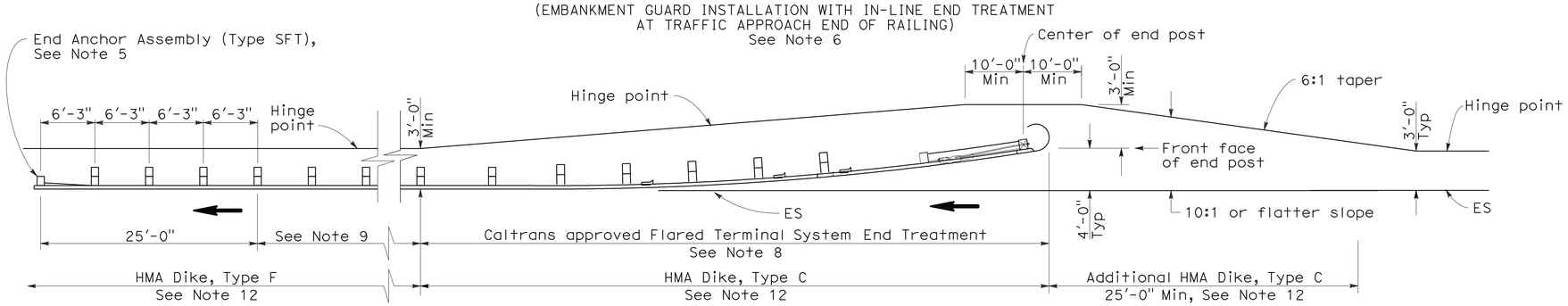
To accompany plans dated 11-16-09



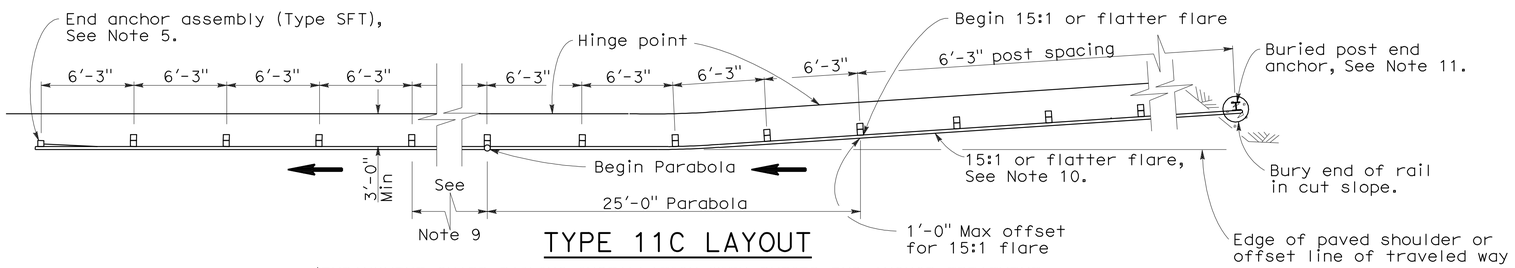
TYPE 11A LAYOUT

(EMBANKMENT GUARD INSTALLATION WITH IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Note 6



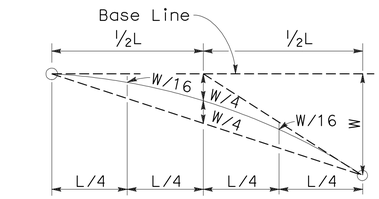
TYPE 11B LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Note 6

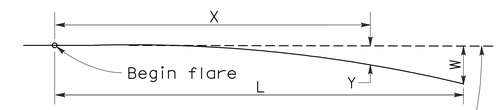


TYPE 11C LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH BURIED END ANCHOR TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 6 and 12



TYPICAL PARABOLIC LAYOUT

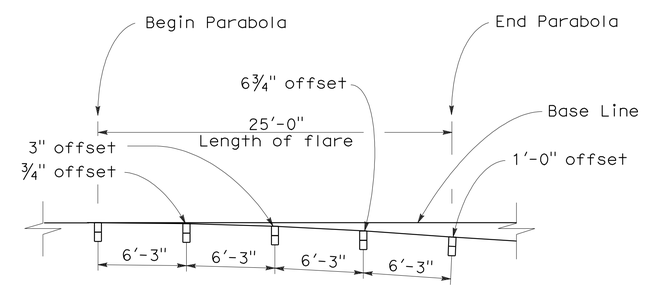


Base Line (Edge of paved shoulder or offset line of edge of traveled way)

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

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

PARABOLIC FLARE OFFSETS



TYPICAL FLARE OFFSETS FOR 1 FOOT MAX END OFFSET

NOTES:

1. Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1, and A77C2.
2. Guard rail 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 recycled plastic blocks may be used for 6" x 8" x 6'-0" wood post with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
4. Direction of adjacent traffic indicated by ⟶.
5. For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
6. Layout Types 11A, 11B or 11C are typically used where guard railing is recommended to shield embankment slopes and a crashworthy end treatment is required for only one direction of traffic.
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 end treatment to be used will be shown on the Project Plans.
9. Dependent on site conditions (embankment height and side slope), construction of additional guard railing (length equal to multiples of 12'-6" with 6'-3" post spacing) may be advisable.
10. The 15:1 or flatter flare used with buried end anchors 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".
11. For details of the buried post end anchor used with Type 11C Layout, see Standard Plan A77I2.
12. Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR EMBANKMENTS

NO SCALE

RSP A77E1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77E1 DATED MAY 1, 2006 - PAGE 48 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77E1

2006 REVISED STANDARD PLAN RSP A77E1

12-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	46	58

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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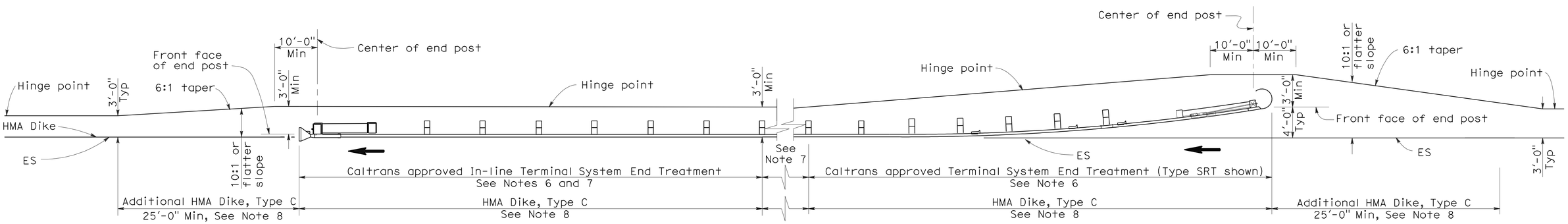
To accompany plans dated 11-16-09



TYPE 11H LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH FLARED END TREATMENT
AND AN IN-LINE TREATMENT AT THE ENDS OF RAILING)
See Notes 5 and 8

NOTES:

1. Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
2. Guard rail 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 plastic blocks may be used for 6" x 8" x 6'-0" wood post with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
4. Direction of adjacent traffic indicated by ➡.
5. Layout Types 11D through 11L, shown on the A77E Series of Revised Standard Plans, are typically used where guard railing is recommended to shield embankment slopes and a crashworthy end treatment is required for both directions of traffic.
6. The type of terminal system end treatment to be used will be shown on the Project Plans.
7. Dependent on site conditions (embankment height and side slope), construction of additional guard railing (length equal to multiples of 12'-6" with 6'-3" post spacing) may be advisable.
8. Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR EMBANKMENTS

NO SCALE

RSP A77E4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77E4
DATED MAY 1, 2006 - PAGE 51 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77E4

2006 REVISED STANDARD PLAN RSP A77E4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	47	58

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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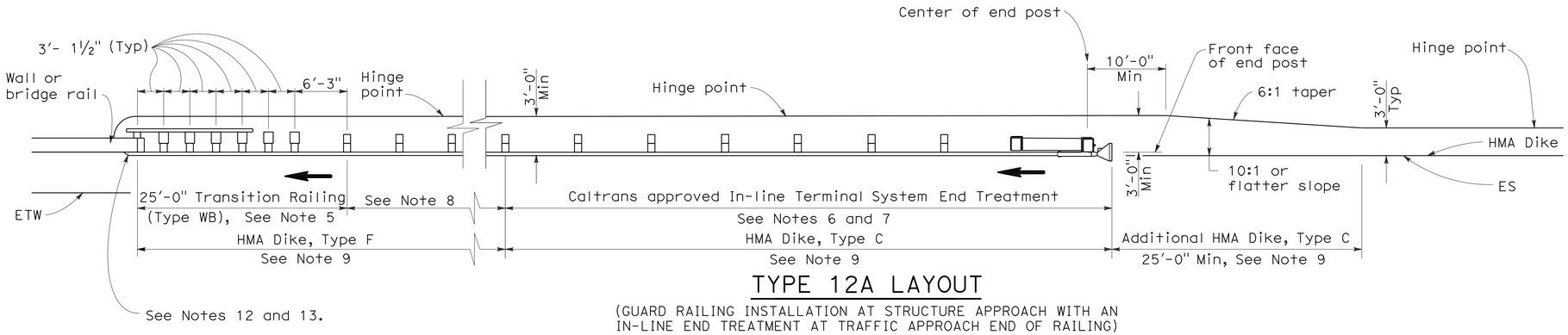
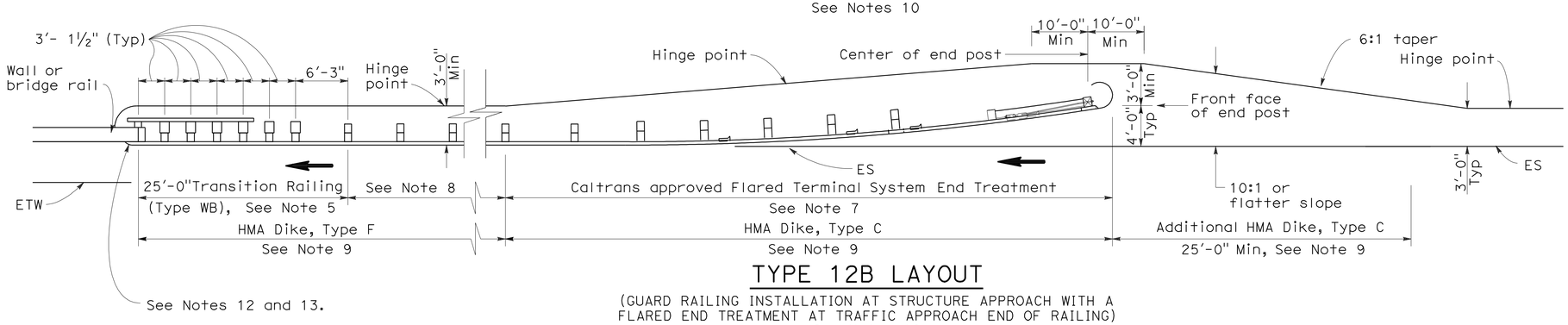
To accompany plans dated 11-16-09



TYPE 12A LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10



TYPE 12B LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10

NOTES:

1. Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
2. Guard rail 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 plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
4. Direction of adjacent traffic indicated by ➡.
5. For Transition Railing (Type WB) details for Types 12A and 12B Layouts, see Standard Plan A77J4.
6. In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
7. The type of terminal system end treatment to be used will be shown on the Project Plans.
8. Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.
9. Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
10. Type 12A or Type 12B Layouts are typically used:
    a. To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
    b. To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
    c. To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
    d. To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
11. See Revised Standard Plan RSP A77F3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
12. For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77J1 and RSP A77J2 and Connection Detail FF on Standard Plans A77K1 and A77K2.
13. For additional details of a typical connection to walls or abutments, see Standard Plan A77J3.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR STRUCTURE APPROACH

NO SCALE

RSP A77F1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F1
DATED MAY 1, 2006 - PAGE 54 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77F1

2006 REVISED STANDARD PLAN RSP A77F1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	48	58

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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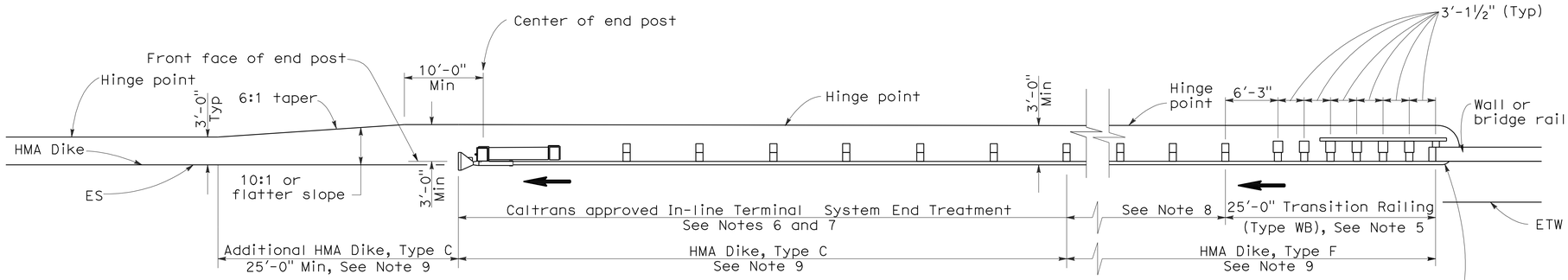
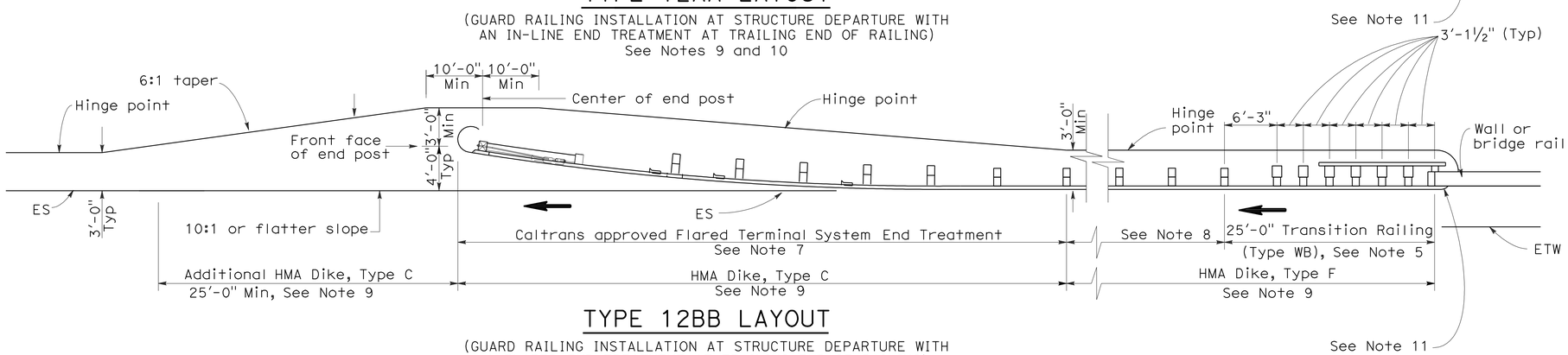
To accompany plans dated 11-16-09



TYPE 12AA LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH AN IN-LINE END TREATMENT AT TRAILING END OF RAILING)
See Notes 9 and 10



TYPE 12BB LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH A FLARED END TREATMENT AT TRAILING END OF RAILING)
See Notes 9 and 10

NOTES:

1. Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
2. Guard rail 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 posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
4. Direction of adjacent traffic indicated by ➡.
5. For Transition Railing (Type WB) details for Types 12AA and 12BB Layouts, see Standard Plan A77J4.
6. In-line Terminal System Treatments are used where site conditions will not accommodate a flared end treatment.
7. The type of terminal system to be used will be shown on the Project Plans.
8. Dependent on site conditions (embankment height, side slopes, other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatments.
9. Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
10. Type 12AA or Type 12BB Layouts are typically used to the right of traffic departing a structure on two-way conventional highways where the roadbed width across the structure is less than 40 feet.
11. For additional details of typical connections to bridge rail, see Connection Detail CC on Revised Standard Plan RSP A77J2 and Connection Detail HH on Standard Plans A77k2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR STRUCTURE DEPARTURE

NO SCALE

RSP A77F4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F4
DATED MAY 1, 2006 - PAGE 57 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77F4

2006 REVISED STANDARD PLAN RSP A77F4

12-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	49	58

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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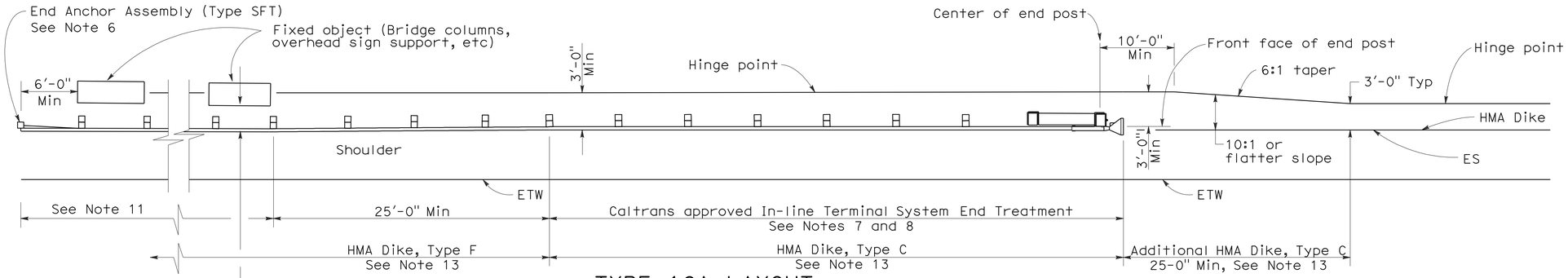
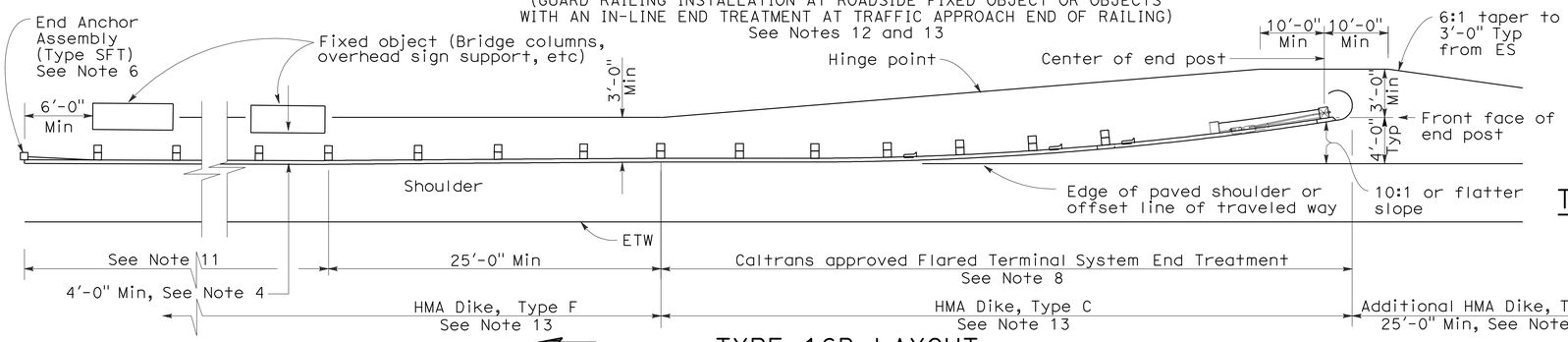
To accompany plans dated 11-16-09



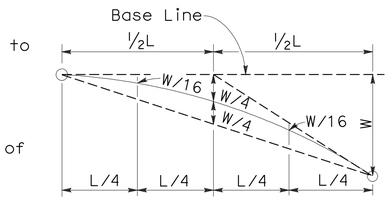
TYPE 16A LAYOUT

(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

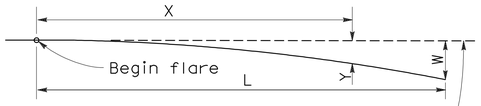


TYPE 16B LAYOUT

(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



TYPICAL PARABOLIC LAYOUT

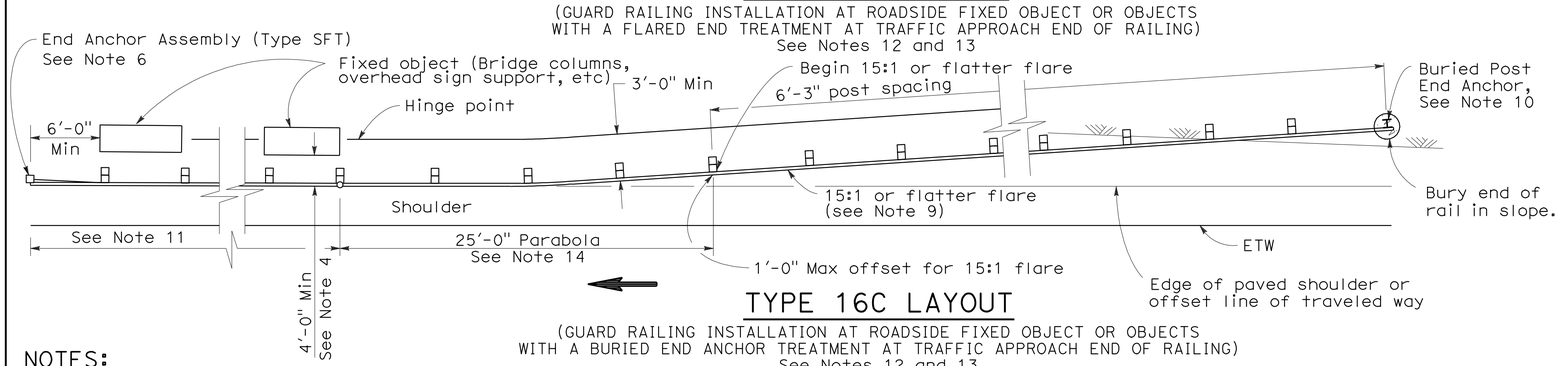


Base Line (Edge of paved shoulder or offset line of edge of traveled way)

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

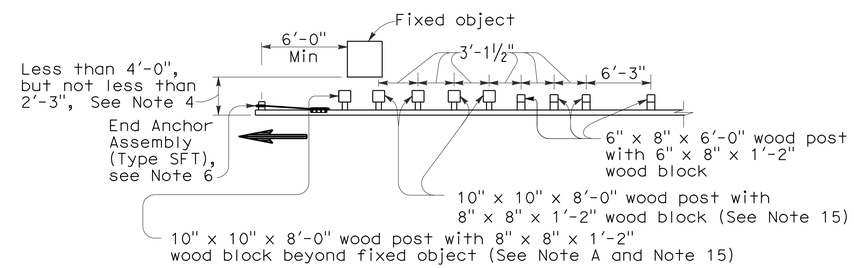
Y = Offset from base line
W = Maximum offset
X = Distance along base line
L = Length of flare

PARABOLIC FLARE OFFSETS



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



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
04	SCI	Var	Var	50	58

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

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

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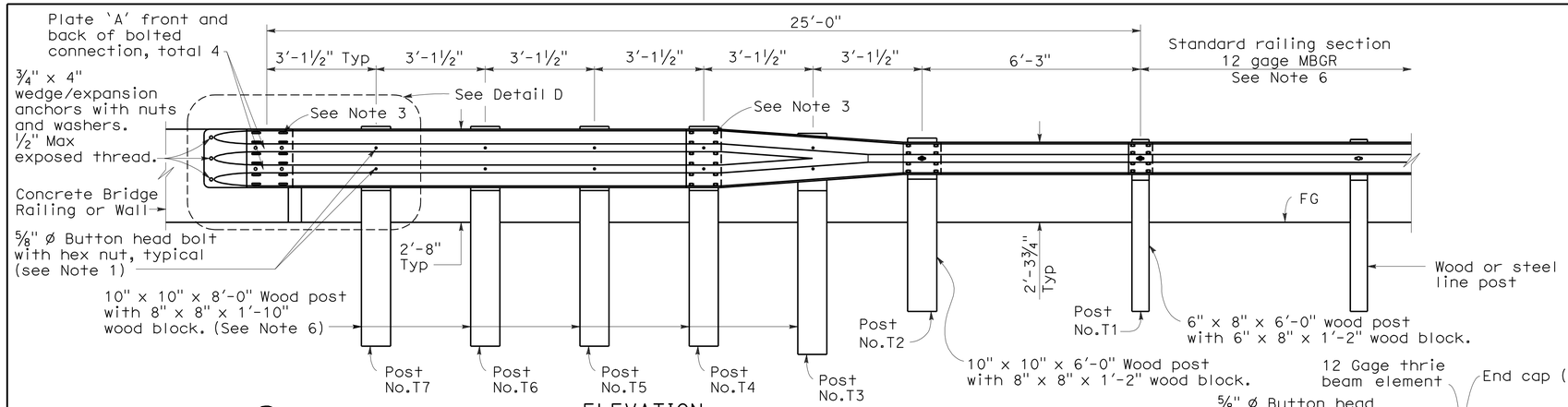
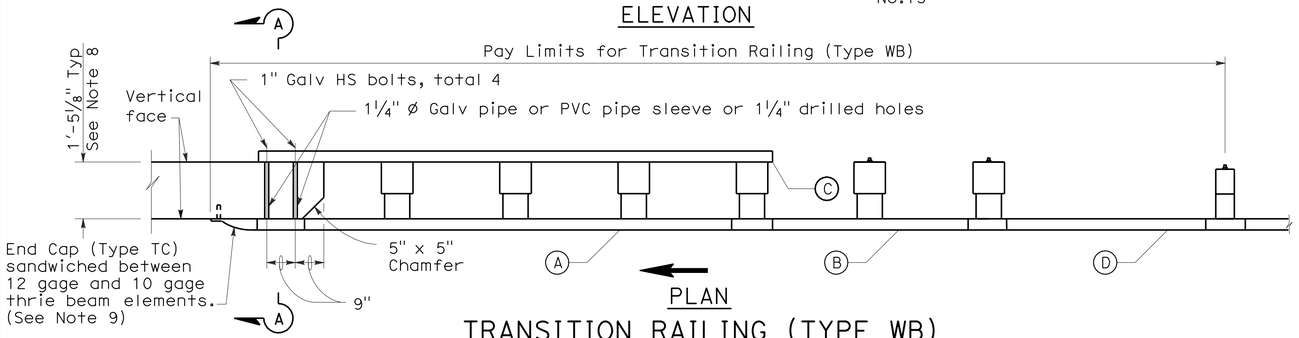


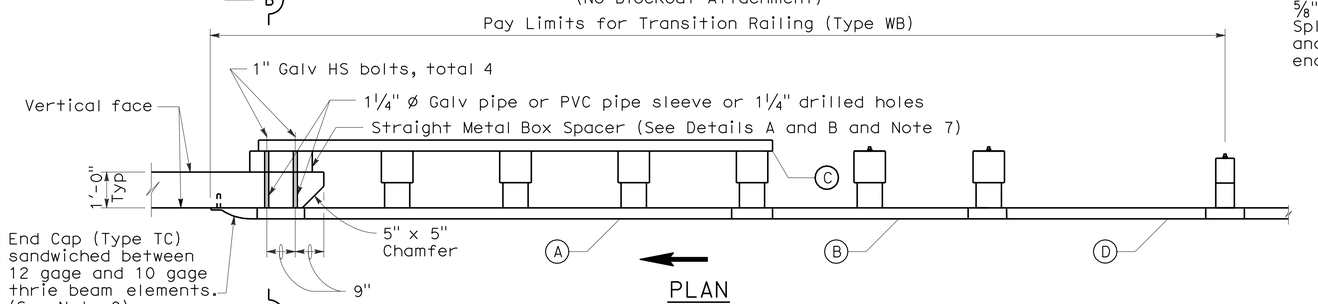
ELEVATION



PLAN

TRANSITION RAILING (TYPE WB)

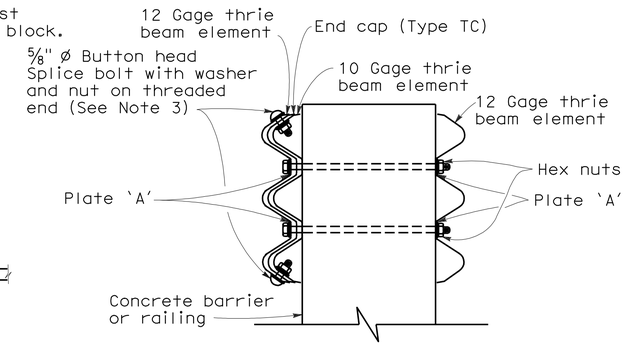
(No Blockout Attachment)



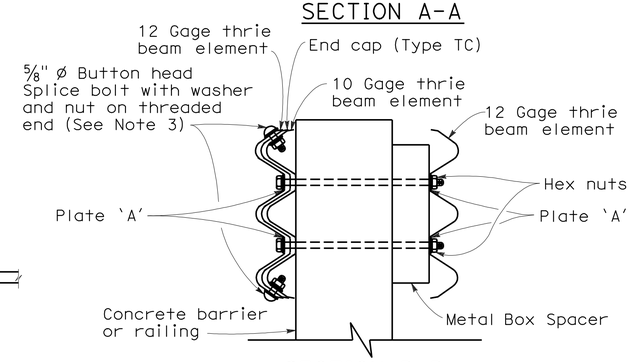
PLAN

TRANSITION RAILING (TYPE WB)

(Blockout Attachment)



SECTION A-A



SECTION B-B

LEGEND

(A) Nested thrie beam elements (one 12 gage element nested over one 10 gage element).

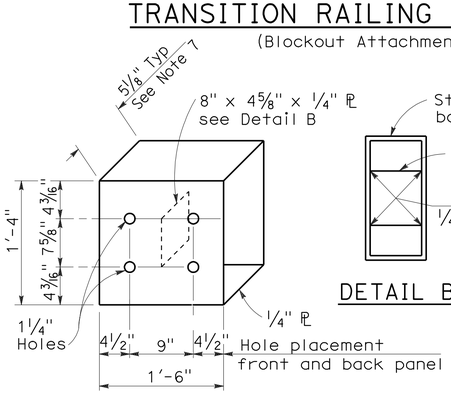
(B) One 10 gage "W" beam to thrie beam element.

(C) One 12 gage thrie beam element.

(D) One 10 gage "W" beam rail element (7'-3½" length)

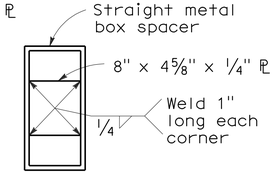
10 gage = 0.135" thick

12 gage = 0.108" thick

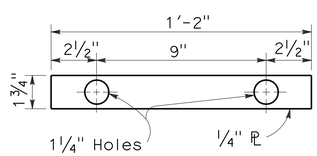


DETAIL A

STRAIGHT METAL BOX SPACER

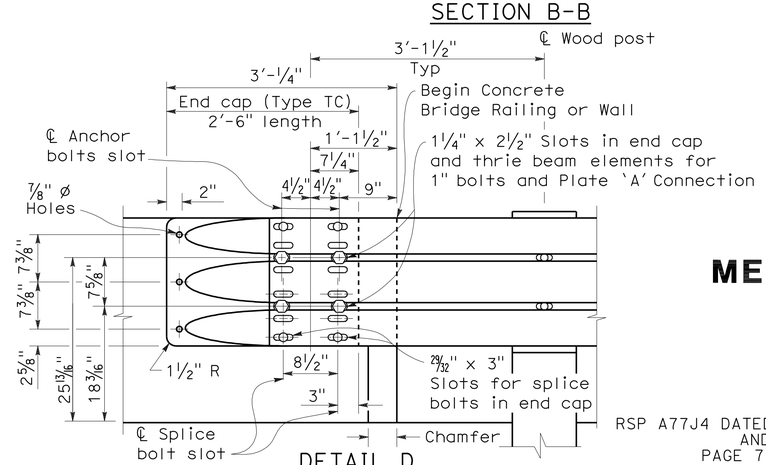


DETAIL B



DETAIL C

PLATE 'A'



DETAIL D

NOTES:

To accompany plans dated 11-16-09

1. Use 5/8 " Ø Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
2. The nested rail elements, end cap, and 'W' beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
3. Exterior splice bolt holes for rail element splices at Post No.T4 and the connection to the concrete barrier or railing shall be the standard 29/32 " x 1 1/8 " slot size. Interior splice bolt holes at these locations may be increased up to 1 1/4 " Ø. Only the top 2 and the bottom 2 splice bolts with washers and nuts are required for rail splices at Post No.T4 and the connection to the concrete barrier or railing.
4. Direction of adjacent traffic indicated by →.
5. The top elevation of Post Nos.T2 through T7 shall not project more than 1" above the top elevation of the rail element.
6. Typically, the railing connected to Transition Railing (Type WB) will be either standard railing section of metal beam guard railing or an approved Caltrans end treatment attached to Post No.T1.
7. The depth of the metal box spacer varies from the 5 1/8 " to 1 1/2 " and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 17 1/8 ". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1 1/2 ", metal plates similar to Plate 'A' are to be used as spacers.
8. Where the width of the concrete railing or wall is greater than 17 1/8 ", wood blocks are to be used to fill the space created between the backside of Posts No.4 through No.7 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
9. End cap may be installed over 12 gage and 10 gage thrie beam elements where transition railing is installed on the departure end of bridge railing.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB)

NO SCALE

RSP A77J4 DATED JUNE 5, 2009 SUPERSEDES RSP A77J4 DATED JUNE 6, 2008 AND STANDARD PLAN A77J4 DATED MAY 1, 2006 - PAGE 75 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77J4

2006 REVISED STANDARD PLAN RSP A77J4

5-14-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	Var	Var	51	58

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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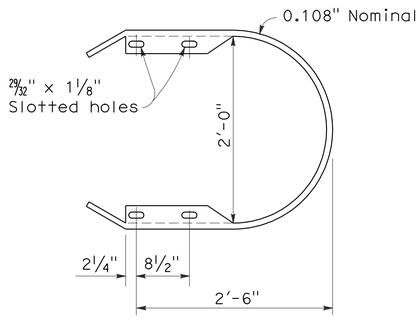
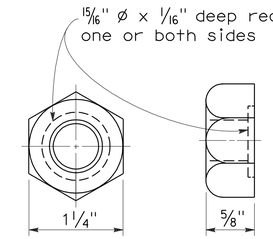
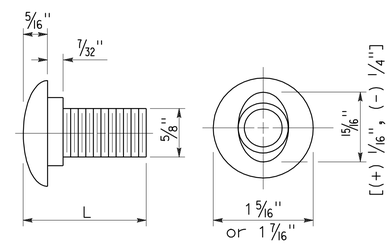
To accompany plans dated 11-16-09



RETURN CAP
(TYPE TA)

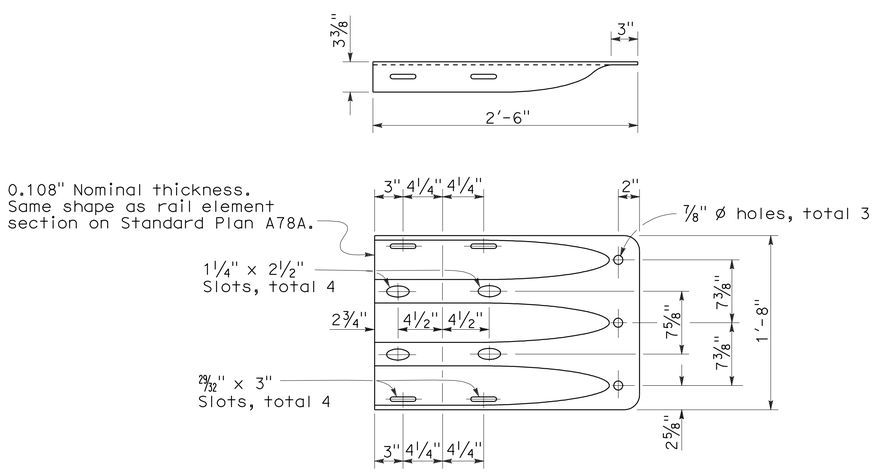


5/8" ø RECESS NUT



5/8" ø BUTTON HEAD BOLT

L	THREAD LENGTH
1 1/4"	full thread length
2"	full thread length
9 1/2"	4" Min thread length
18"	4" Min thread length



END CAP
(TYPE TC)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THRIE BEAM BARRIER STANDARD HARDWARE DETAILS

NO SCALE

RSP A78C1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A78C1
DATED MAY 1, 2006 - PAGE 85 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A78C1

2006 REVISED STANDARD PLAN RSP A78C1

4-21-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	52	58

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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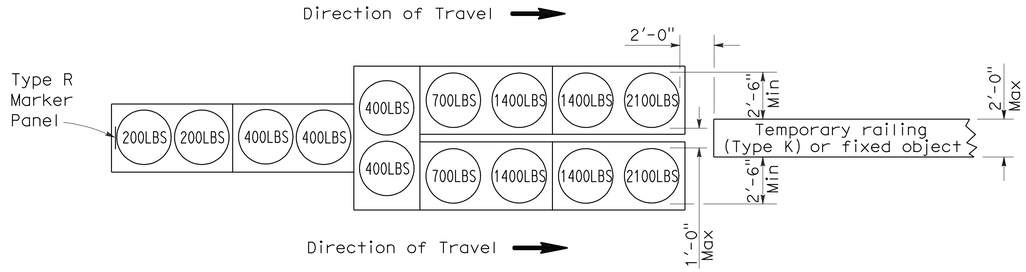
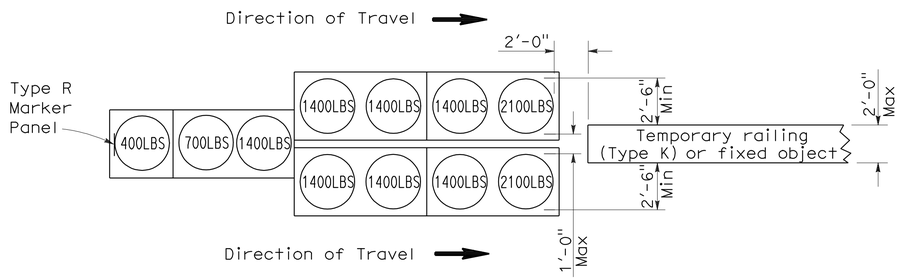
To accompany plans dated 11-16-09



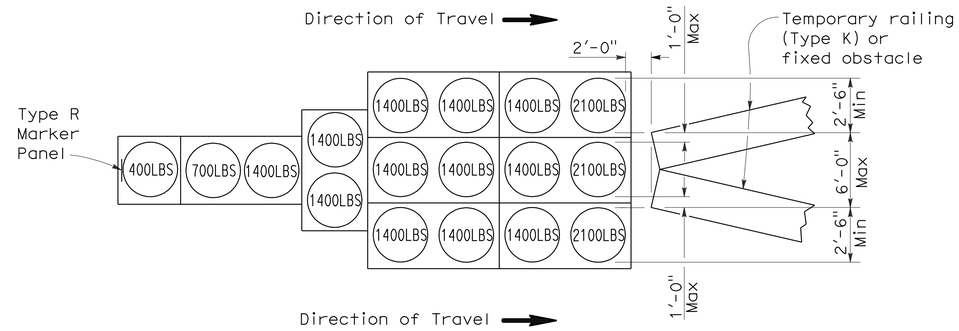
ARRAY 'TU14'

Approach speed 45 mph or more



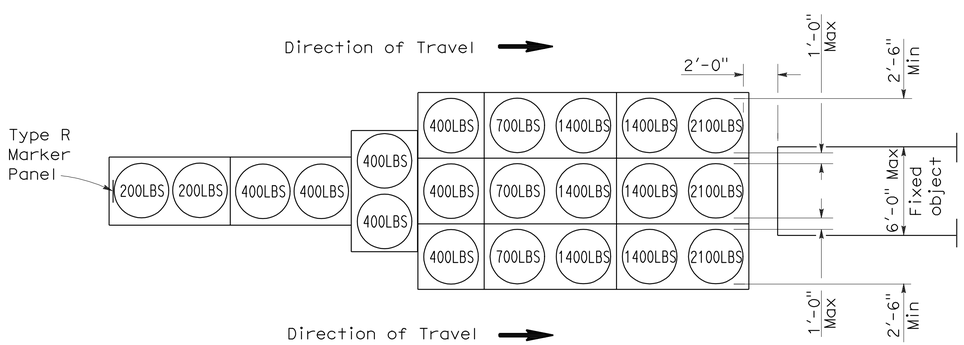
ARRAY 'TU11'

Approach speed less than 45 mph



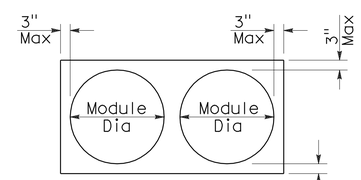
ARRAY 'TU17'

Approach speed less than 45 mph

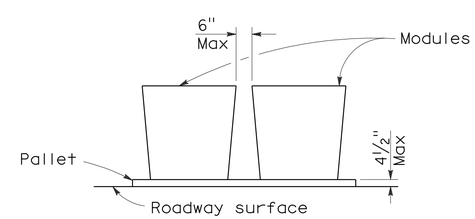


ARRAY 'TU21'

Approach speed 45 mph or more



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 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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	53	58

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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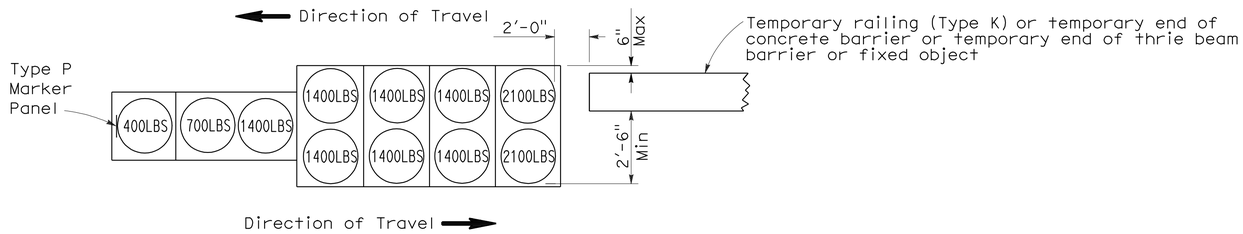
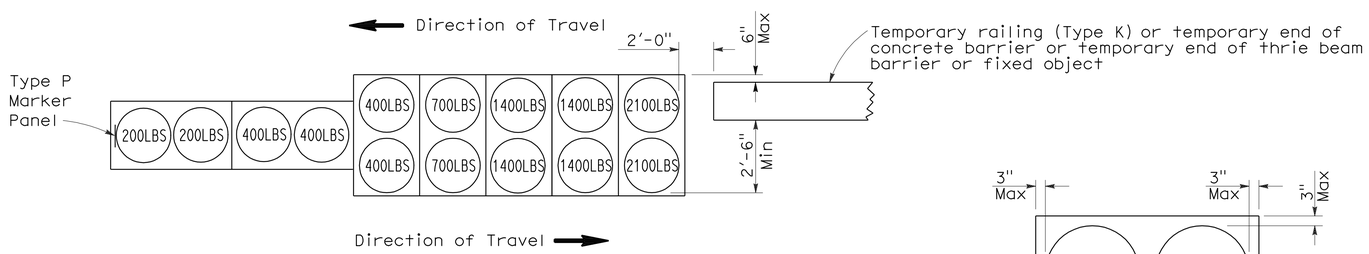
To accompany plans dated 11-16-09



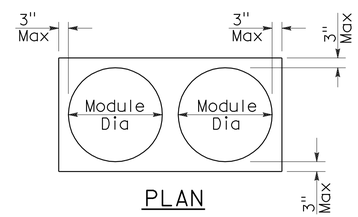
ARRAY 'TB11'

Approach speed less than 45 mph

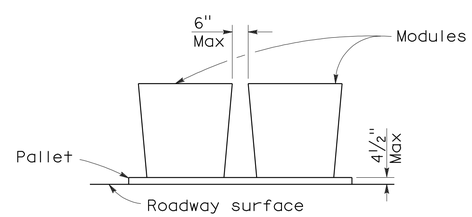


ARRAY 'TB14'

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
04	SCI	Var	Var	54	58

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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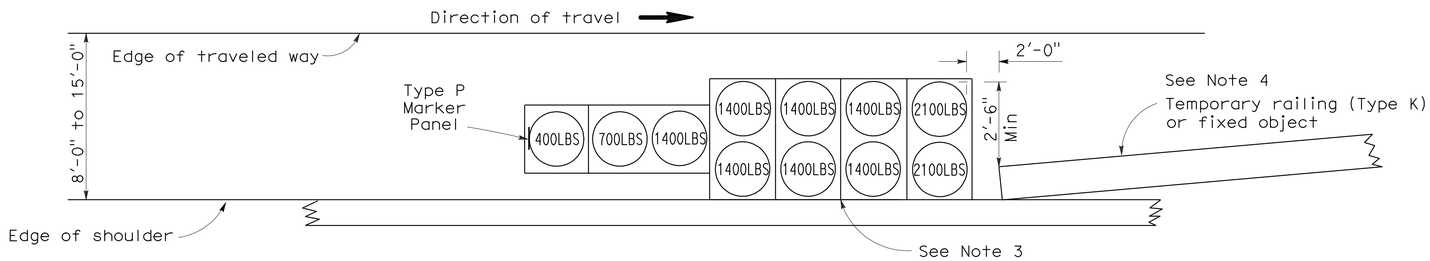
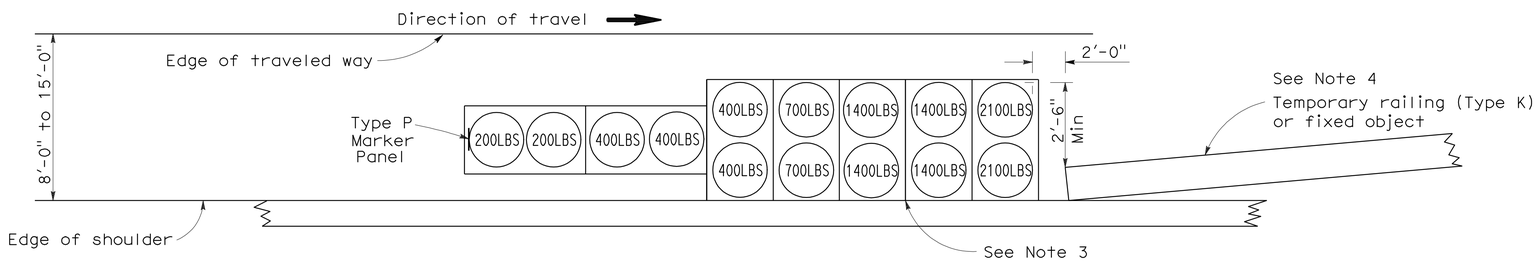
To accompany plans dated 11-16-09



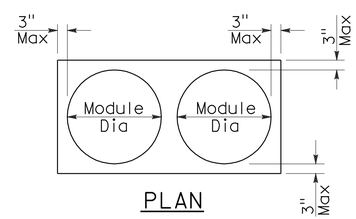
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

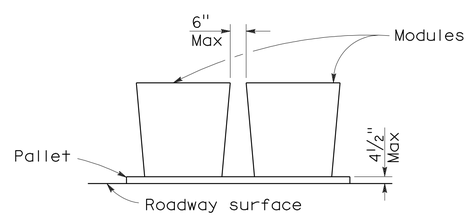


ARRAY 'TS14'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	55	58

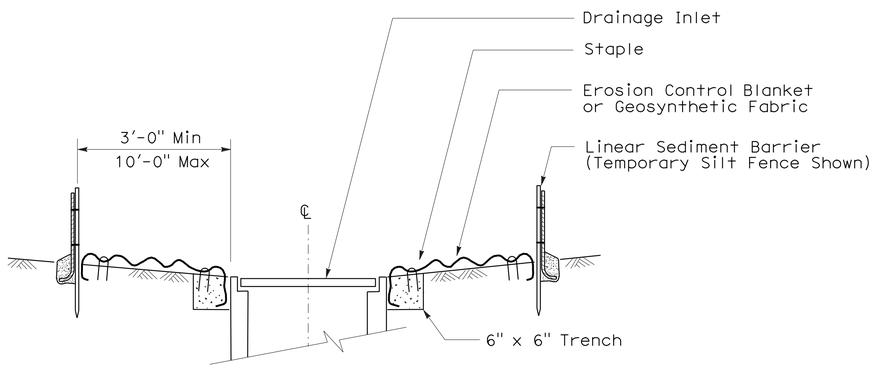
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS Approval DATE

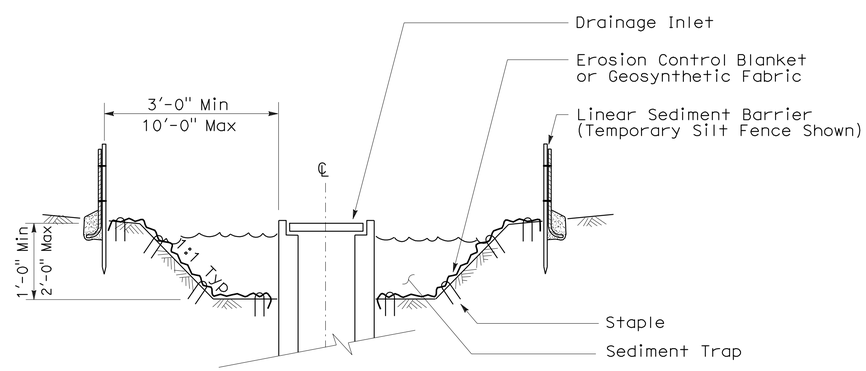
LICENSED LANDSCAPE ARCHITECT
Robert B. Schott 3825
Signature
11-04-08
Renewal Date
08-11-08
Date
STATE OF CALIFORNIA

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 11-16-09



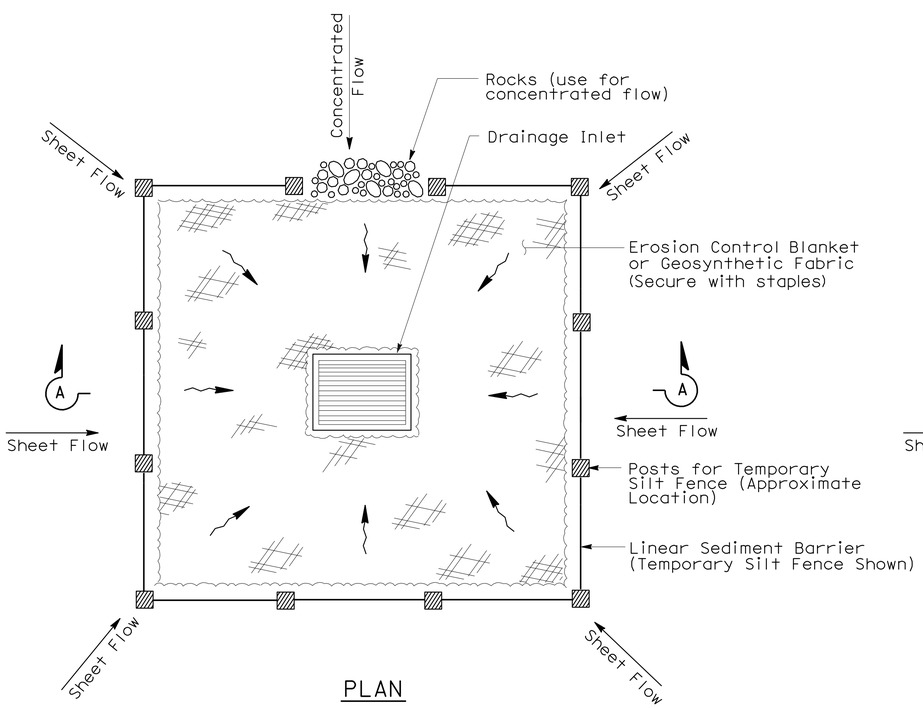
SECTION A-A



SECTION B-B

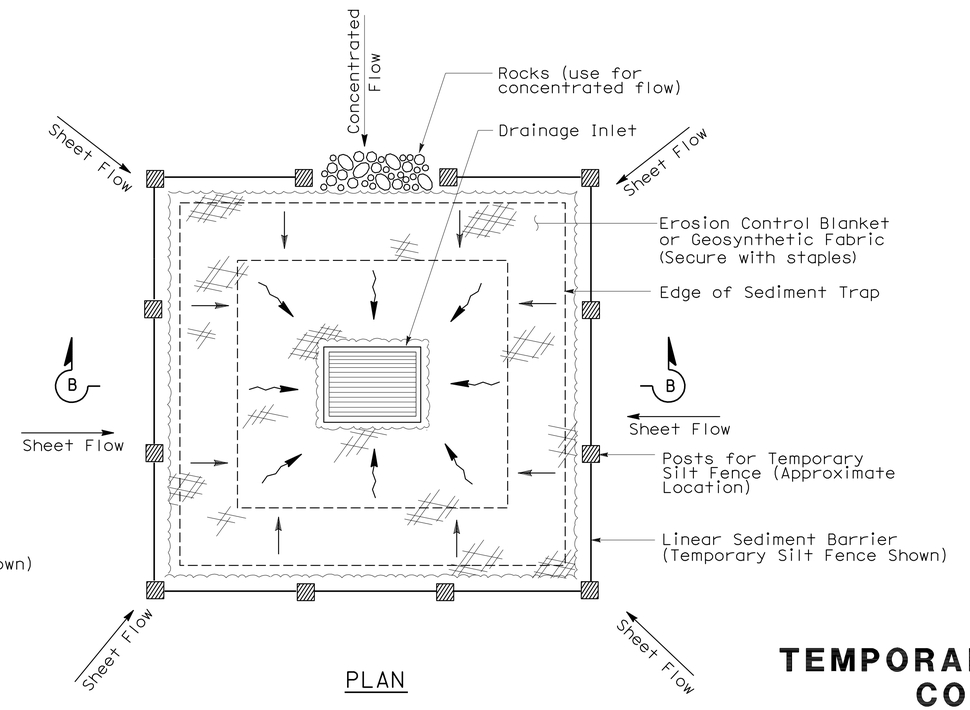
NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.



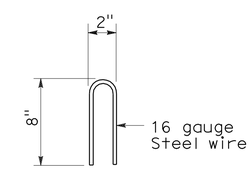
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T61

2006 NEW STANDARD PLAN NSP T61

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	56	58

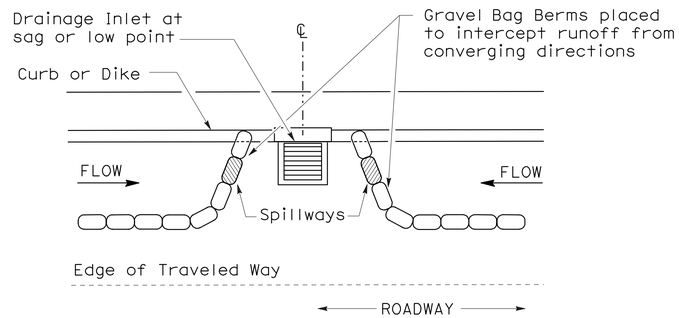
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

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.

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

To accompany plans dated 11-16-09



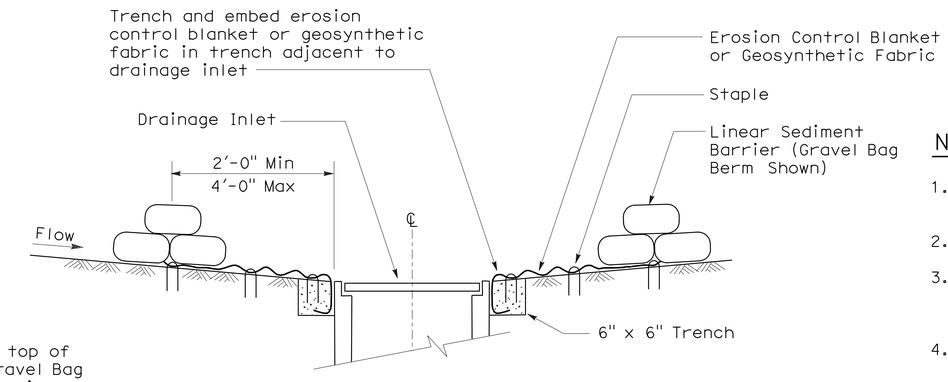
PLAN

CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100′	75′	50′	25′	12′

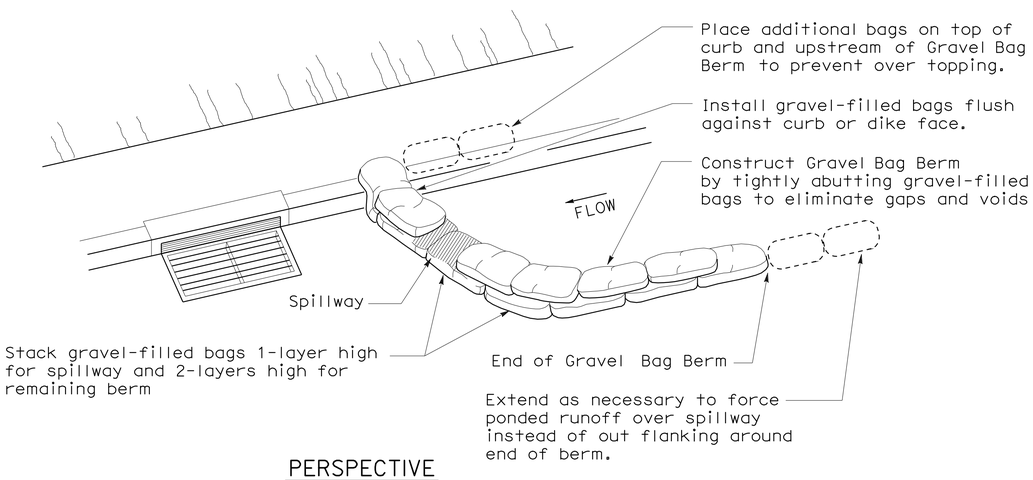
For slope of less than 1%, install barriers only if erosion/sediment is prevalent



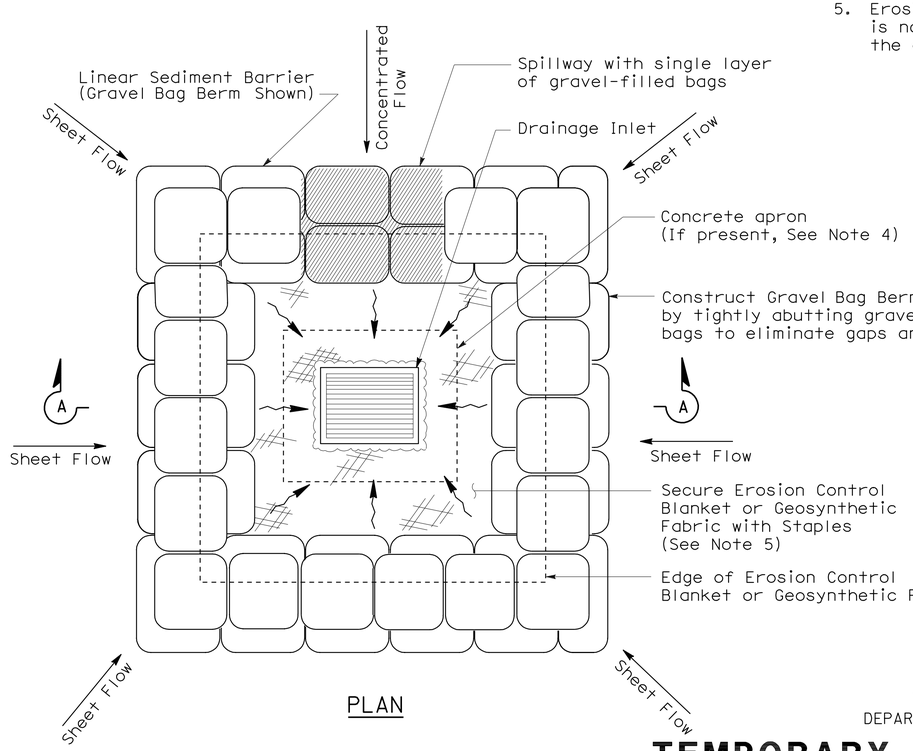
SECTION A-A

NOTES:

1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.

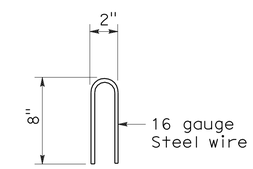


PERSPECTIVE

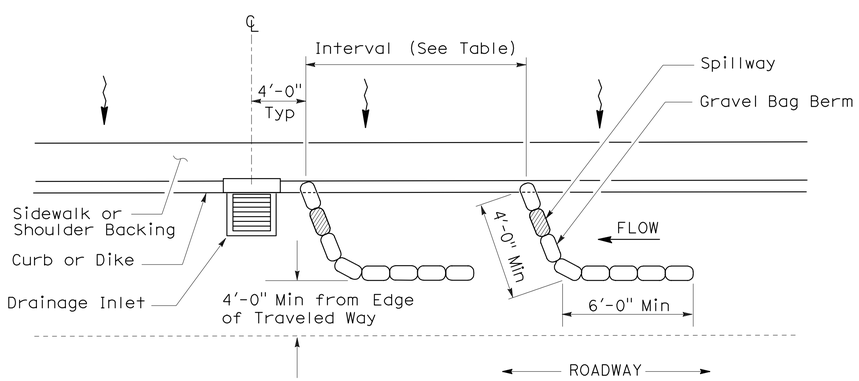


PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T62

2006 NEW STANDARD PLAN NSP T62

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	57	58

LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

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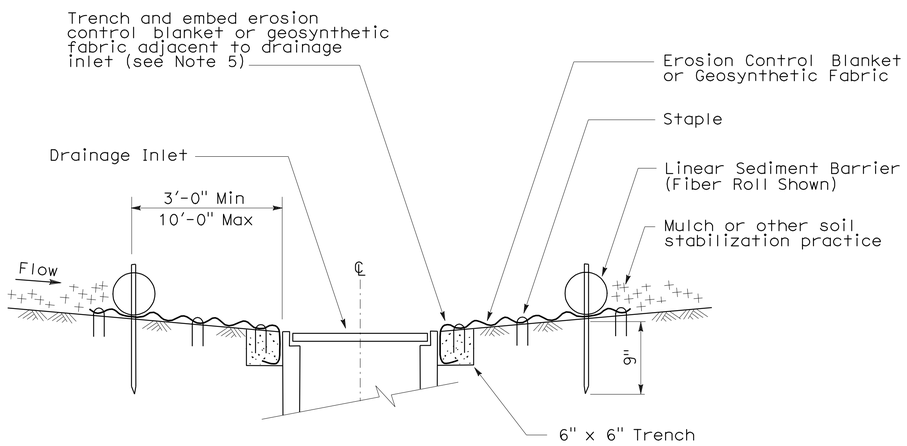
LICENSED LANDSCAPE ARCHITECT — Robert B. Schott — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

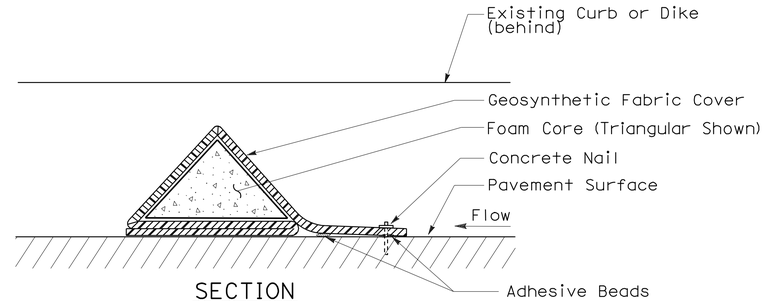
To accompany plans dated 11-16-09

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50′	35′	30′	25′	20′
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6′	6′	6′	6′	6′



SECTION A-A

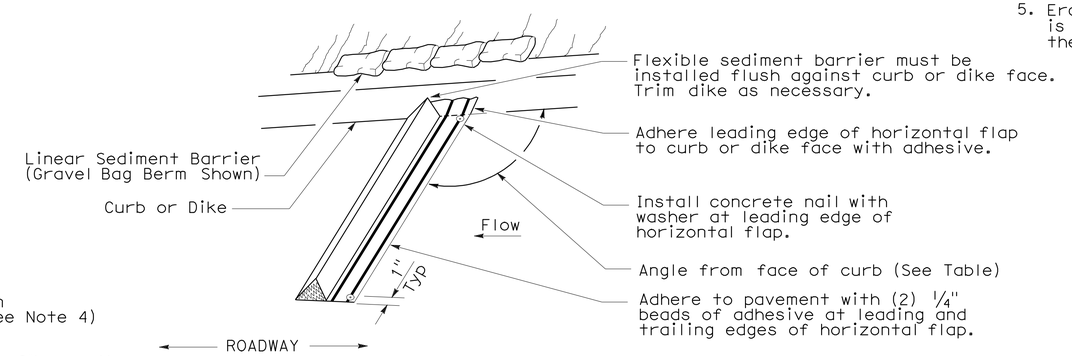


SECTION

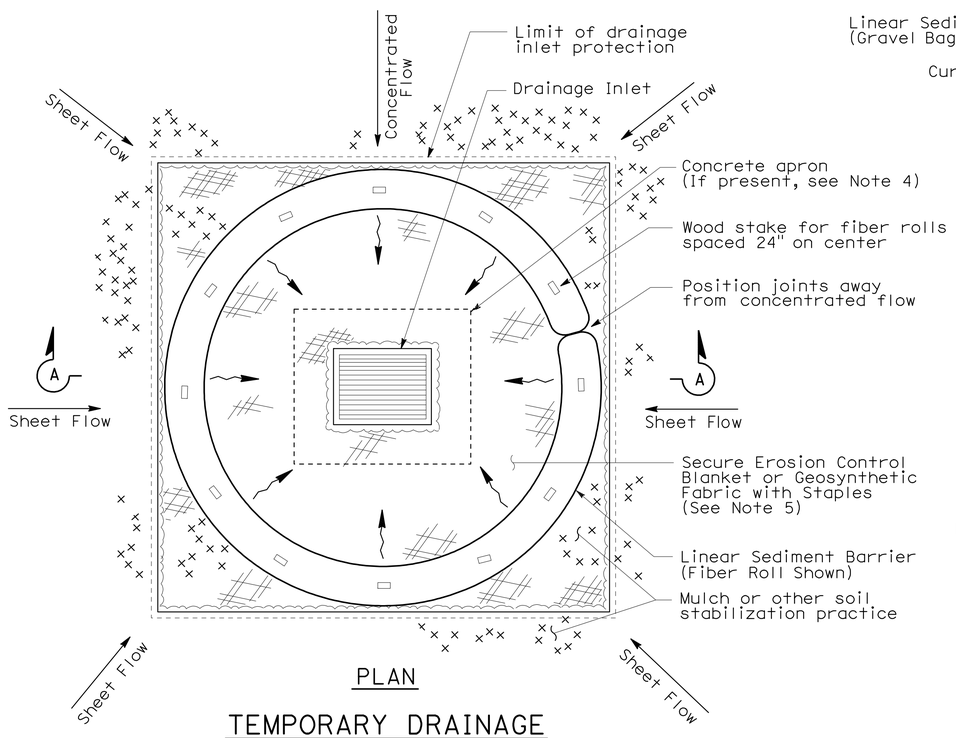
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.

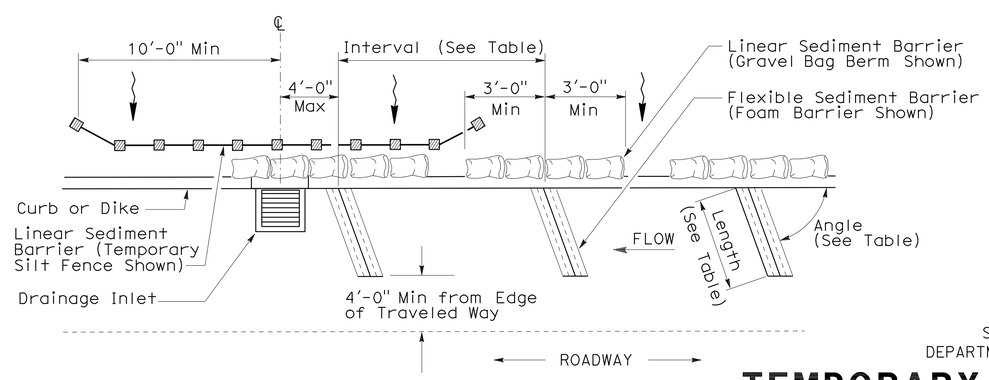


PERSPECTIVE



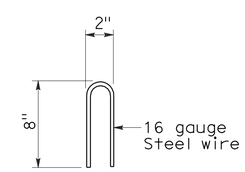
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T63

2006 NEW STANDARD PLAN NSP T63

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	Var	Var	58	58

LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Robert B. Schott 3625
Signature
11-04-08
Renewal Date
08-11-08
Date
STATE OF CALIFORNIA

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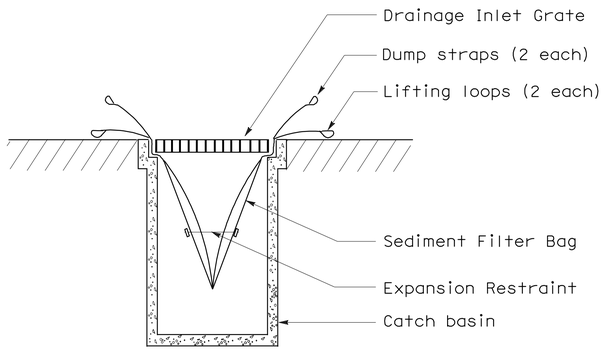
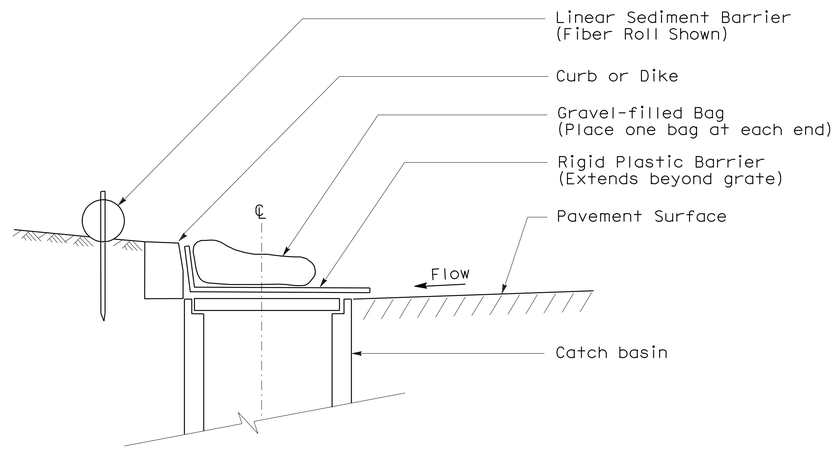
To accompany plans dated 11-16-09



SECTION B-B

SEDIMENT FILTER BAG DETAIL

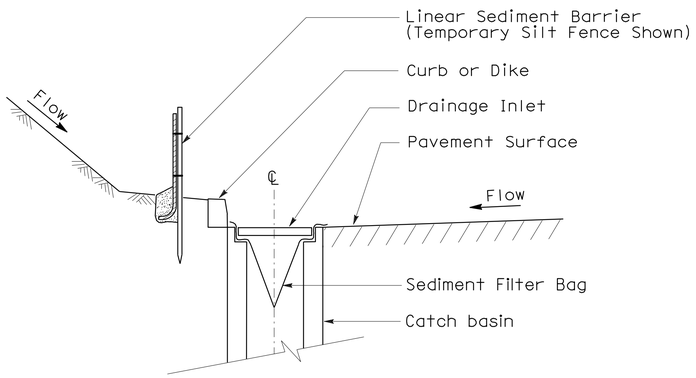


SECTION

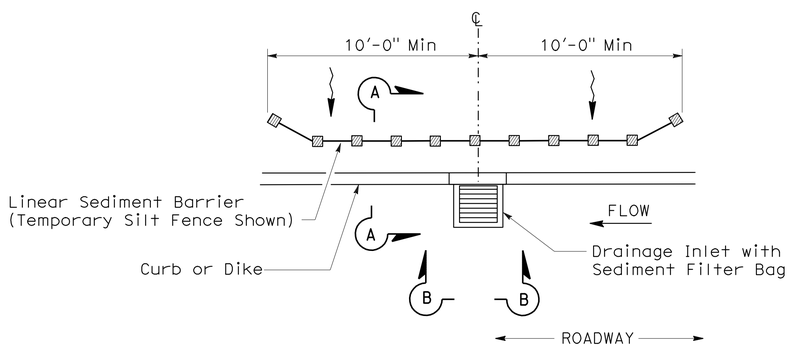
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A) (CATCH BASIN WITH GRATE)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

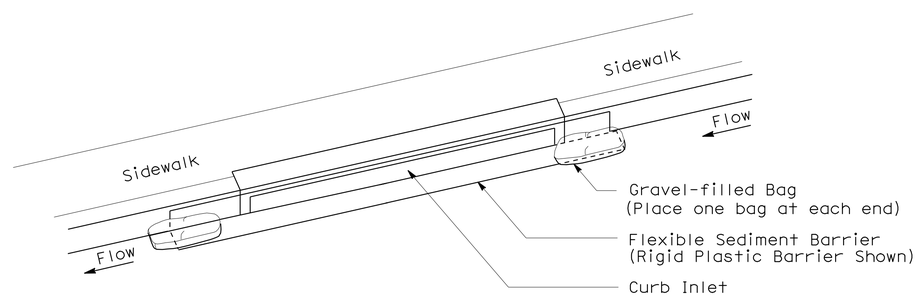


SECTION A-A



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5) (SEDIMENT FILTER BAG)



PERSPECTIVE

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B) (CURB INLET WITHOUT GRATE)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

7-11-08