Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	1	34

NH-P139(020)E

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MODOC AND SISKIYOU COUNTIES FROM 3.3 MILES NORTH OF PEREZ OVERHEAD TO SISKIYOU COUNTY LINE AND FROM MODOC COUNTY LINE TO OREGON BORDER

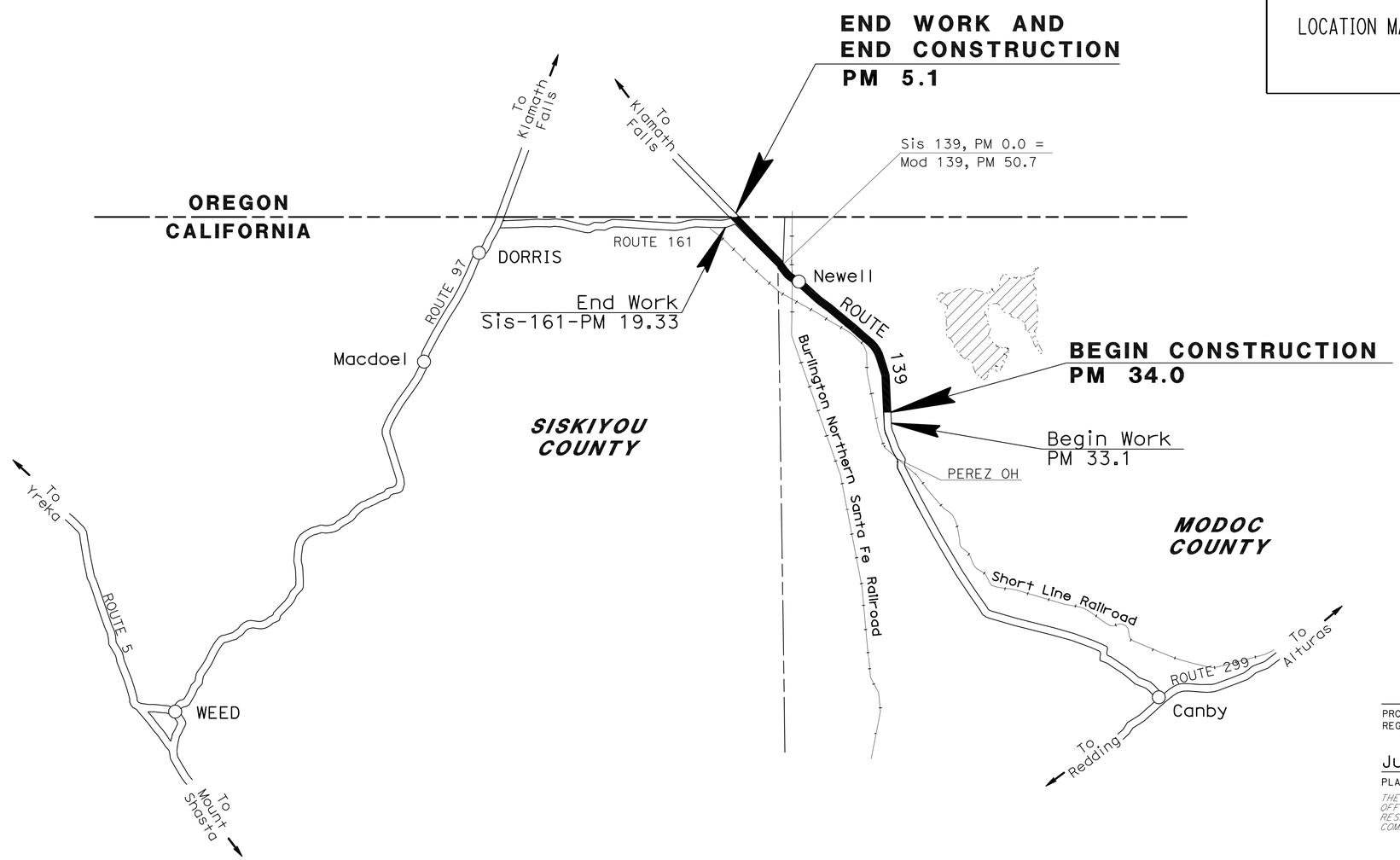
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF SHEETS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL CROSS SECTIONS
3-7	CONSTRUCTION DETAILS
8	CONSTRUCTION AREA SIGNS
9-10	PAVEMENT DELINEATION DETAILS AND QUANTITIES
11-21	SIGN DETAILS AND QUANTITIES
22-23	SUMMARY OF QUANTITIES
24	ELECTRICAL PLAN
25-34	REVISED STANDARD PLANS

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

LOCATION MAP



NO SCALE

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

06-24-10
PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

July 6, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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CONTRACT No.	02-2C4604
PROJECT ID	0200020005

PROJECT MANAGER: ERIC AKANA
DESIGN ENGINEER: LANCE BROWN

P:\proj\02\2c460\pse\22c460ab001.dgn

LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	2	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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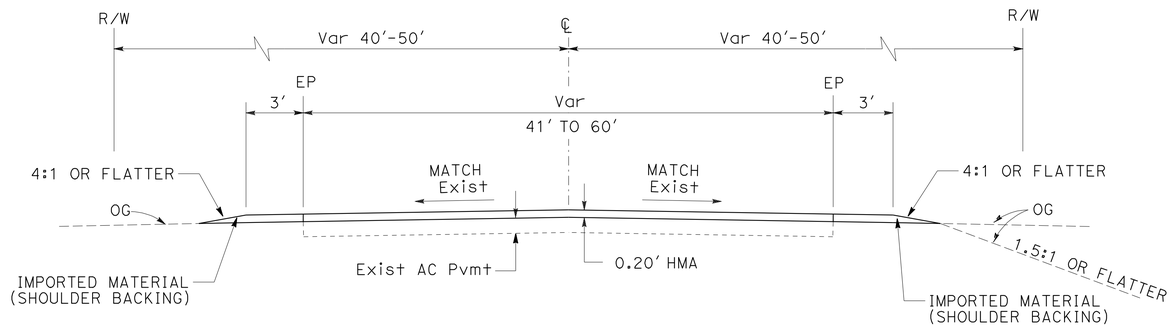
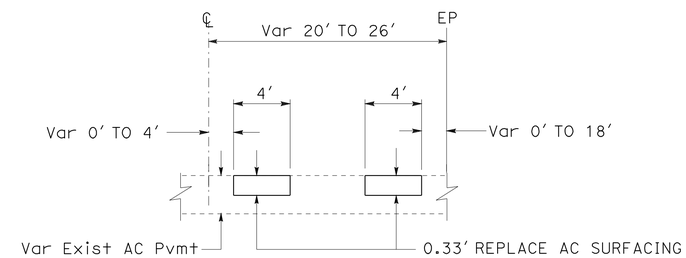
NOTES:

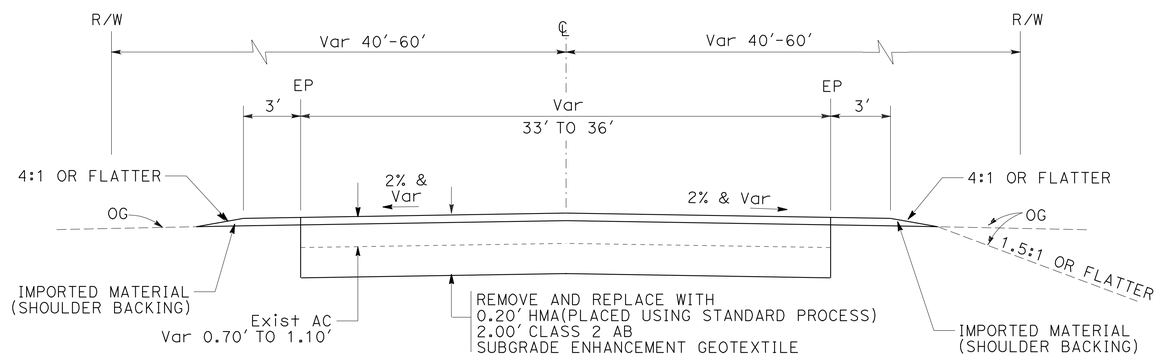
1. DIMENSIONS OF THE PAVEMENT SECTION (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. REMOVE AND REPLACE SOFT SECTIONS PRIOR TO RECYCLING.



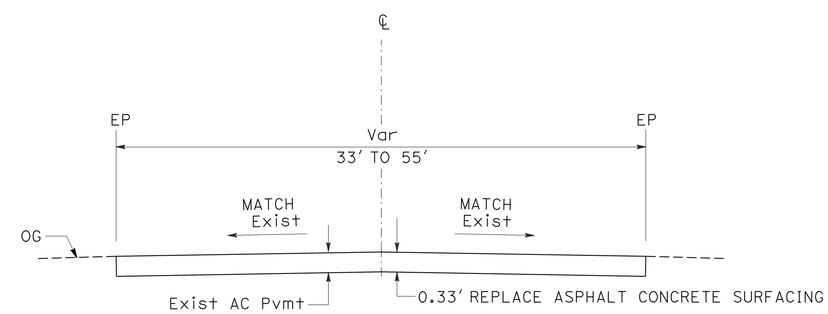
TYPICAL CROSS SECTION
Sis-139-PM 0.0/5.1



REPLACE AC SURFACING
(TYPICAL BOTH DIRECTIONS)
Sis-139-PM 0.0/5.1

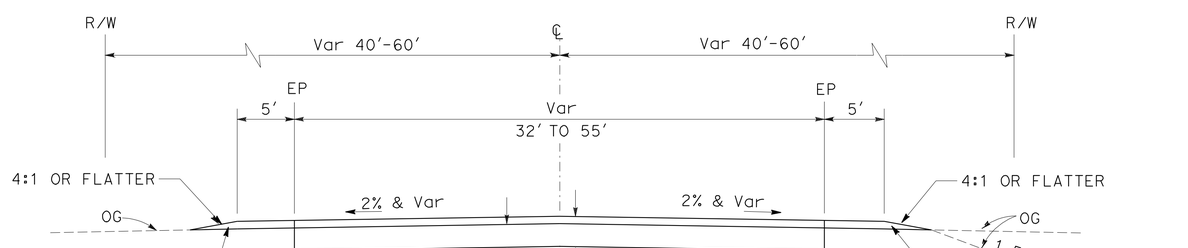


TYPICAL CROSS SECTION FOR SOFT SECTIONS
Mod-139-PM 35.85/35.95, 42.35/42.45, 43.65/43.75, 47.95/48.05, 48.75/48.95
(SEE NOTE 4)



REPLACE AC SURFACING
Mod-139-PM 40.02*
PM 40.17*
PM 41.05*
PM 44.14*
PM 44.30-44.31
PM 44.31-44.32
PM 47.73-47.74
PM 47.74-47.75
PM 48.78*

*SEE ADDITIONAL DETAILS ON C-2



TYPICAL CROSS SECTION
Mod-139-PM 34.0/50.7

TYPICAL CROSS SECTIONS
NO SCALE

X-1

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 09-AUG-2010 | TIME PLOTTED => 10:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	3	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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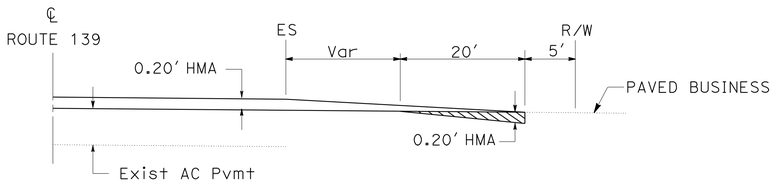
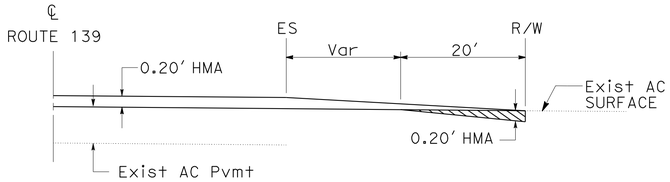
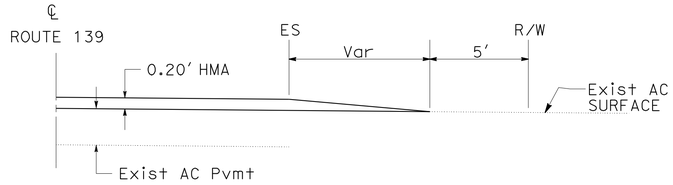


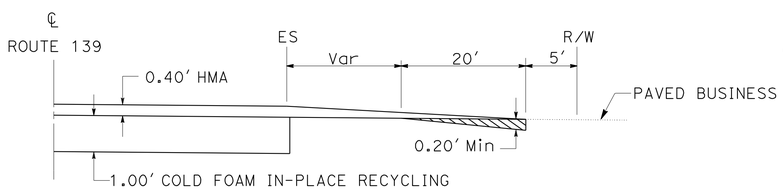
SECTION A-A (DRIVEWAY)
SISKIYOU COUNTY
PM 1.44, 1.46, AND 4.31



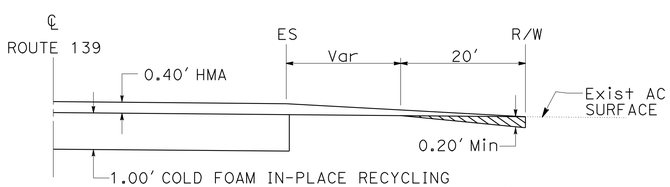
SECTION A-A (COUNTY ROAD)
SISKIYOU COUNTY



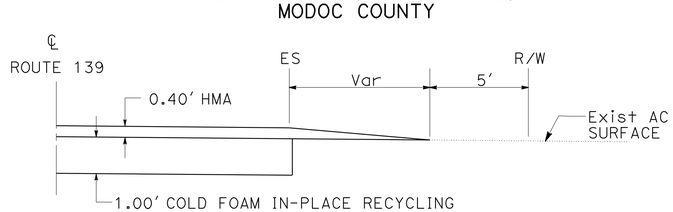
SECTION A-A (DRIVEWAY)
SISKIYOU COUNTY



SECTION A-A (DRIVEWAY)
MODOC COUNTY
PM 46.44, 48.26 AND 49.26



SECTION A-A (COUNTY ROAD)
MODOC COUNTY

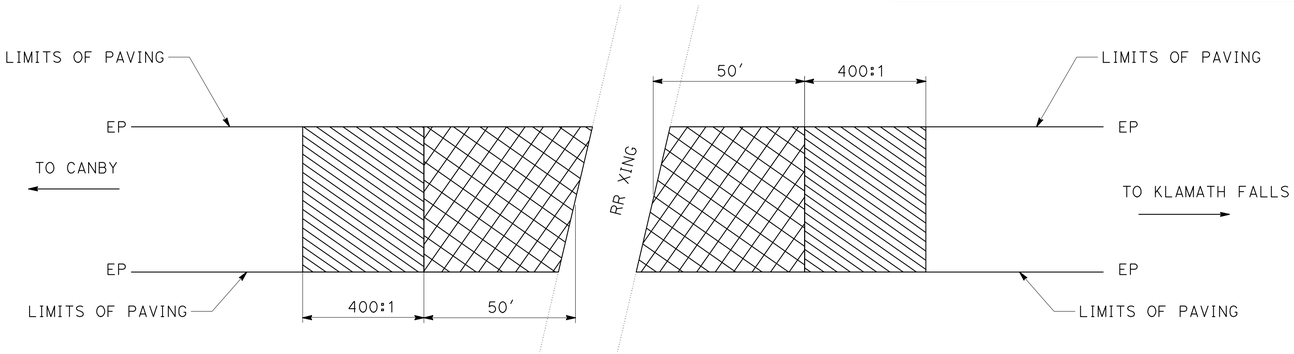


SECTION A-A (DRIVEWAY)
MODOC COUNTY

LEGEND

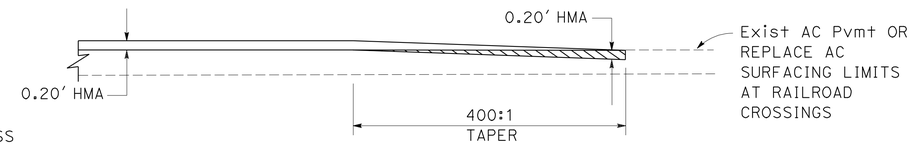
COLD PLANE AC PAVEMENT

REPLACE AC SURFACING (0.33′)



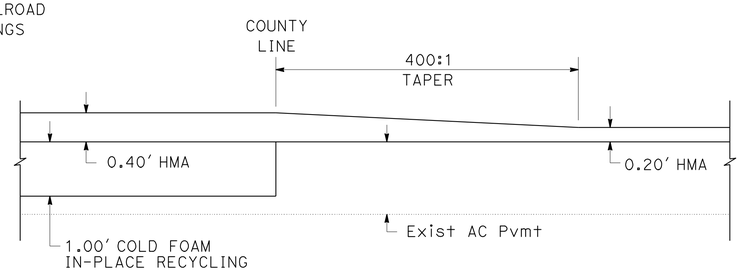
DETAIL AT RAILROAD CROSSING

Mod-139-44.31 & 47.74
Sis-139-4.95 & Jct 139/161 (E SIDE OF RR TRACKS ONLY)



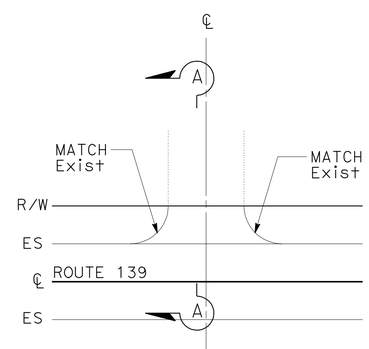
MAINLINE CONFORM TAPER

SISKIYOU COUNTY

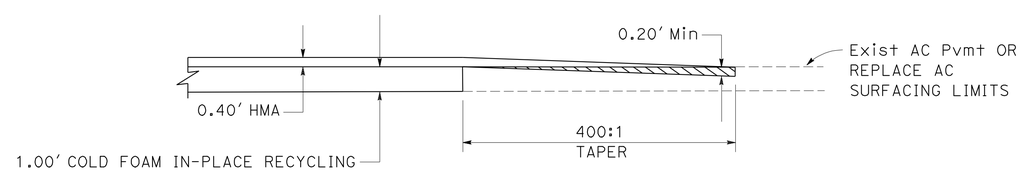


MAINLINE CONFORM TAPER

Mod-139-50.68/Sis-139-0.00 (Co LINE)



TYPICAL DRIVEWAY/ COUNTY ROAD



MAINLINE CONFORM TAPER

MODOC COUNTY

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	4	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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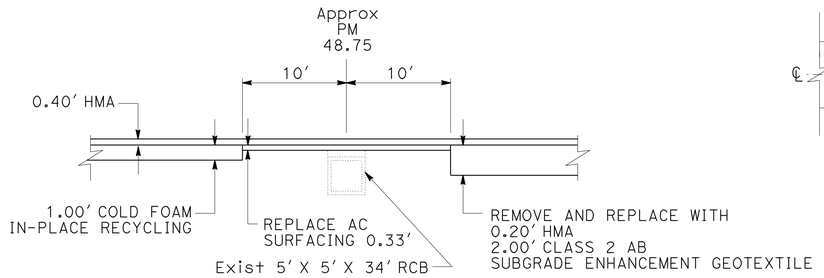
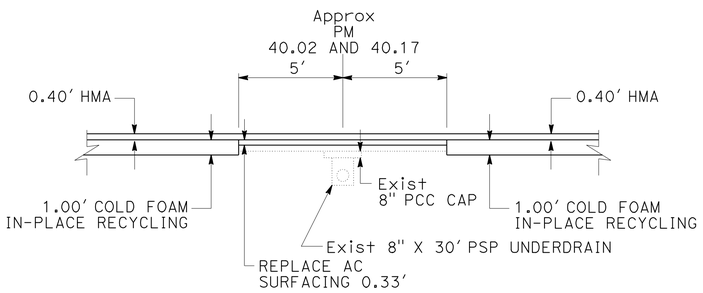
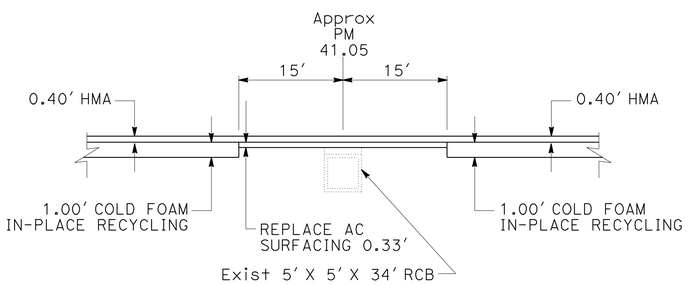


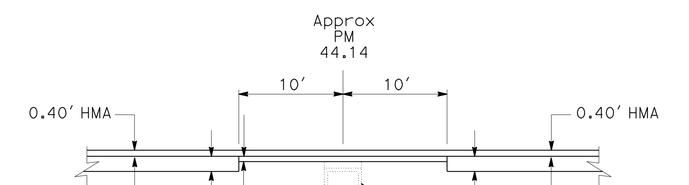
DETAIL NEAR CULVERT AT PM 48.75



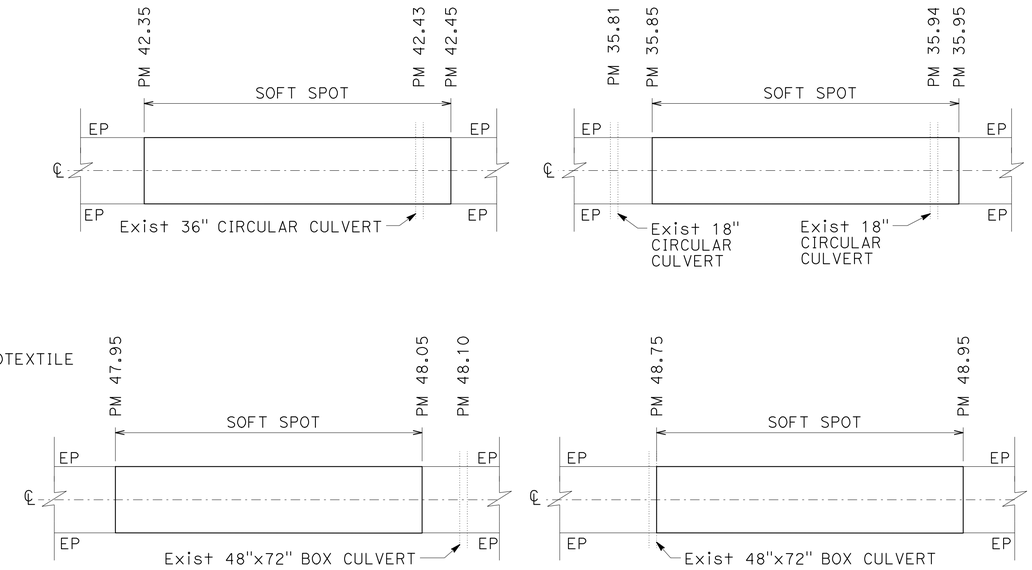
DETAIL NEAR UNDERDRAIN AT PM 40.02 AND 40.17



DETAIL NEAR CULVERT AT PM 41.05



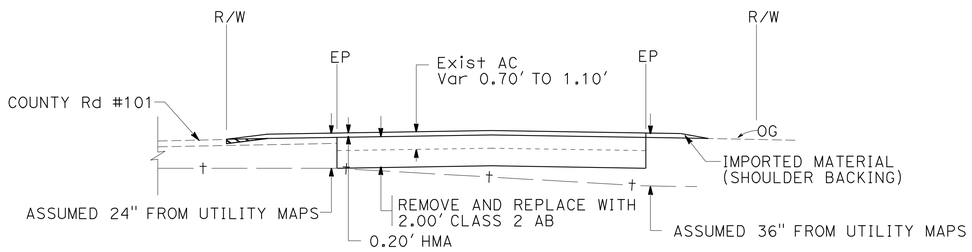
DETAIL NEAR CULVERT AT PM 44.14



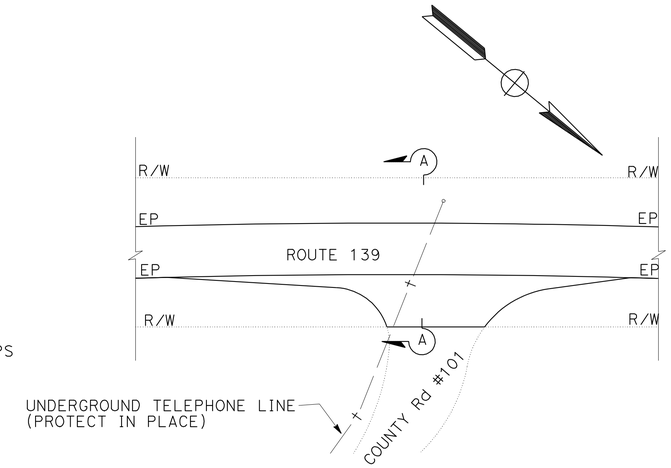
CULVERTS AT SOFT SPOTS

CULVERTS WITH LESS THAN 2′ OF COVER

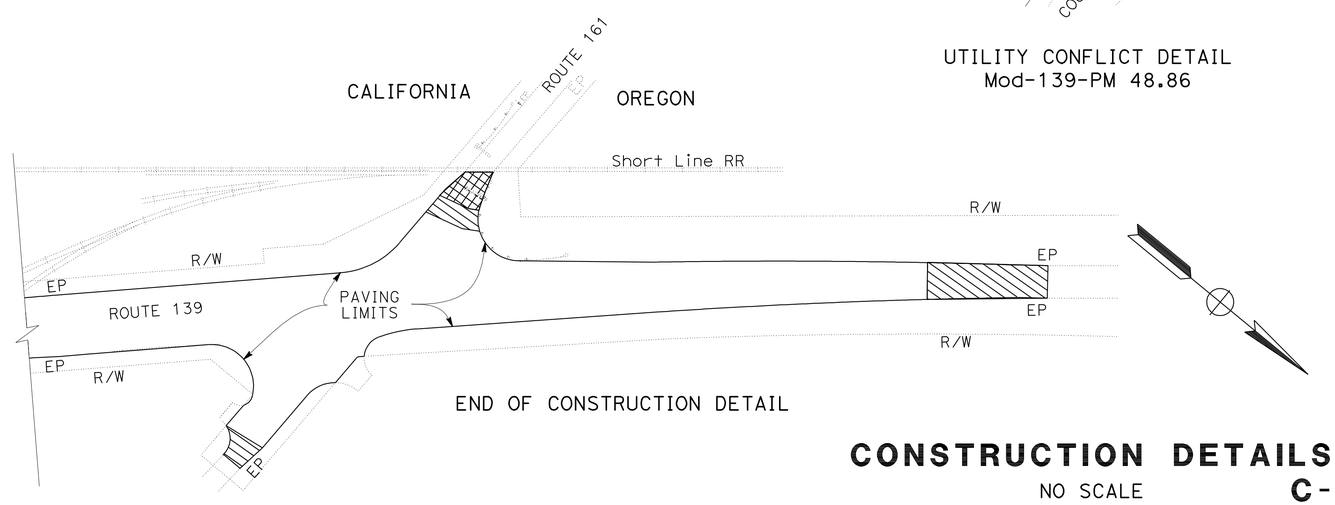
Co-Rte	PM	REMARKS
Mod-139	35.81	18" CSP UNDER COLD FOAM
Mod-139	35.94	18" CSP IN SOFT SPOT
Mod-139	39.78	18" CSP UNDER COLD FOAM
Mod-139	40.23	24" X 18" CSP UNDER COLD FOAM
Mod-139	40.29	18" CSP UNDER COLD FOAM
Mod-139	45.42	11′7"X7′5" SSPPA UNDER COLD FOAM



SECTION A-A



UTILITY CONFLICT DETAIL
Mod-139-PM 48.86



END OF CONSTRUCTION DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-2

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

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LAST REVISION 06-24-10 | DATE PLOTTED => 09-AUG-2010 | TIME PLOTTED => 10:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	5	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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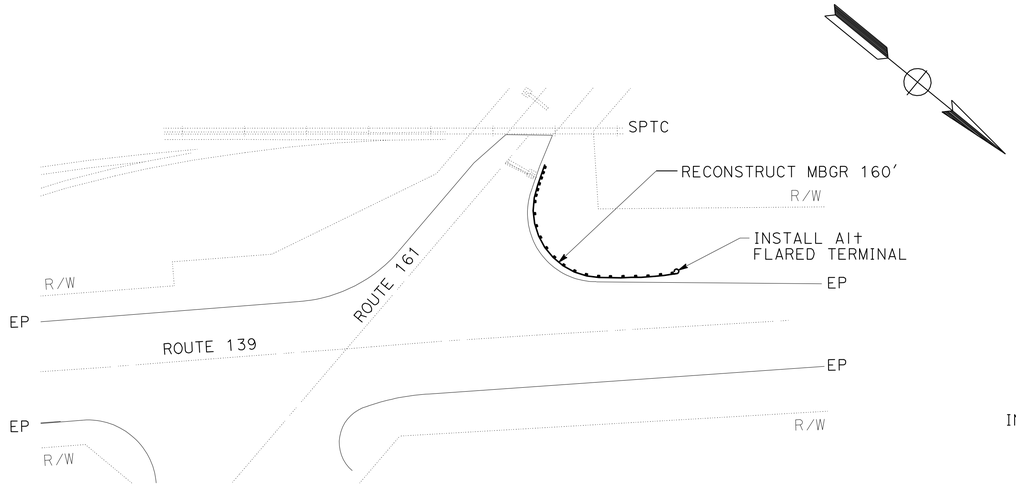
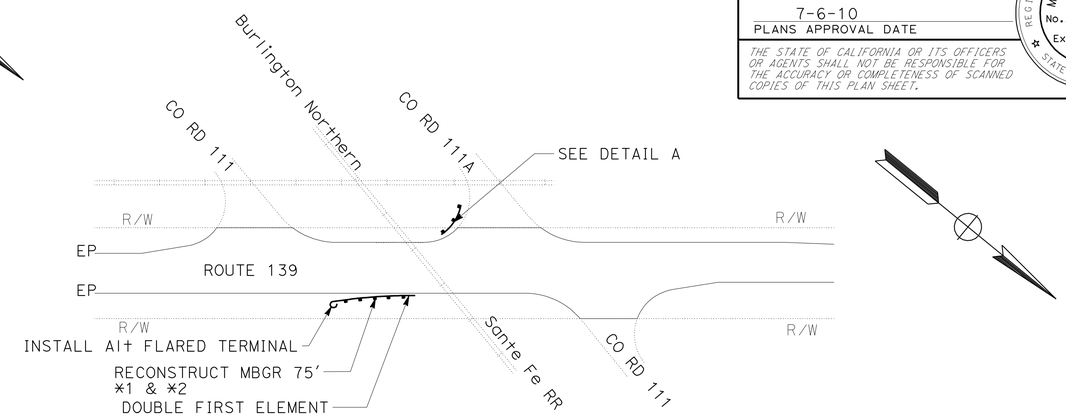
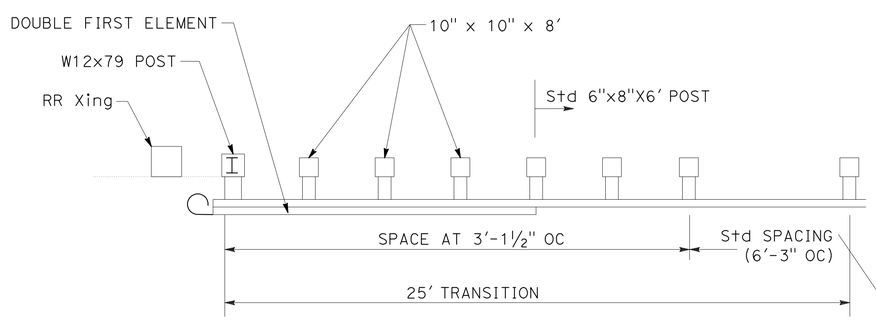


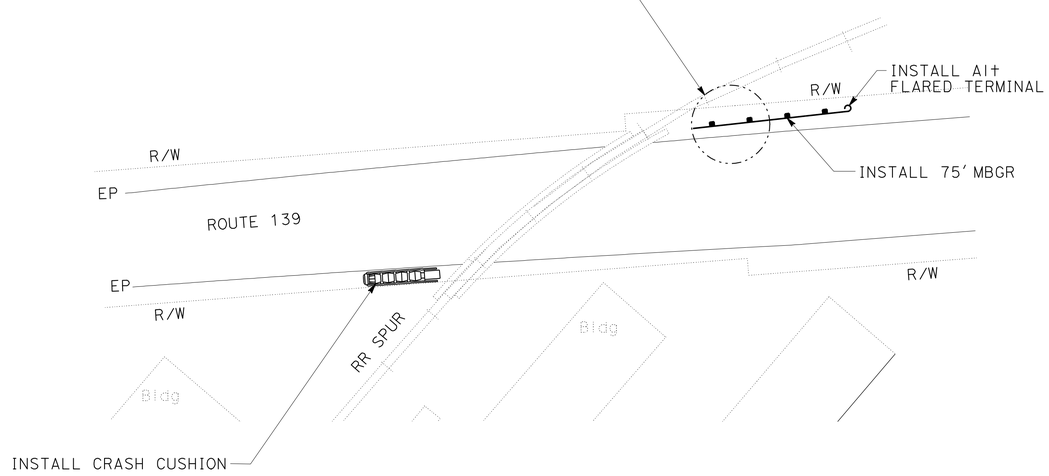
METAL BEAM GUARDRAIL DETAIL
Sis-139-5.04



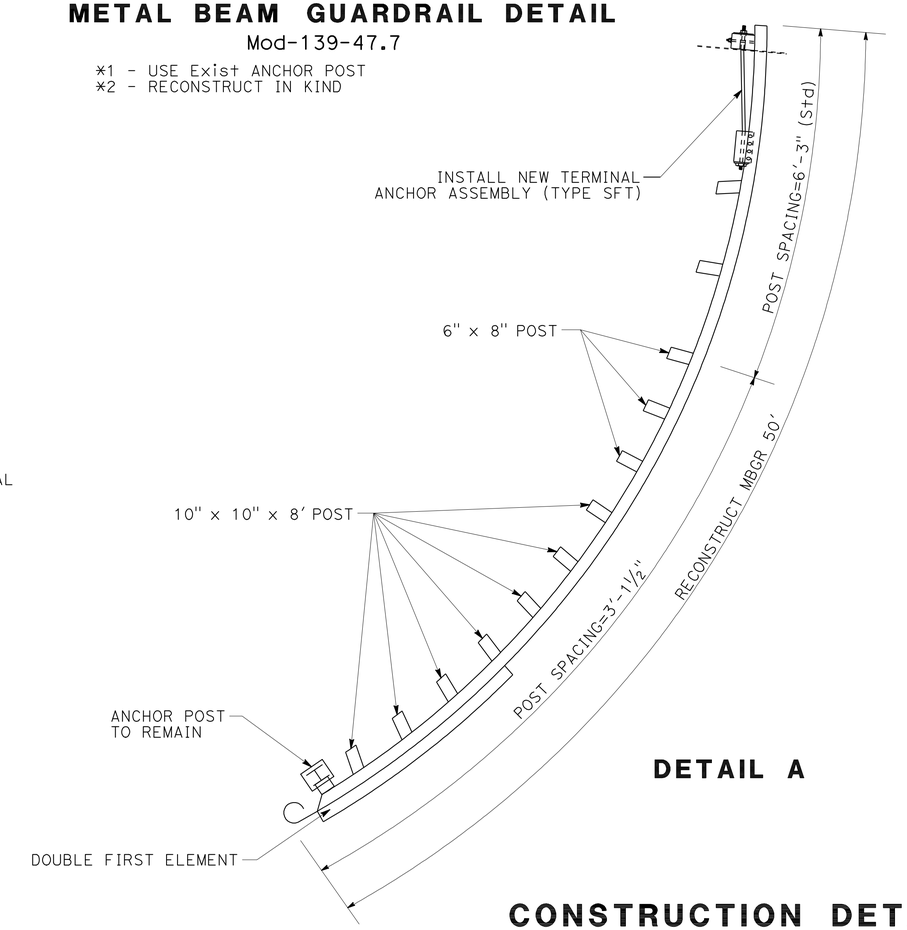
METAL BEAM GUARDRAIL DETAIL
Mod-139-47.7

*1 - USE Exist ANCHOR POST
*2 - RECONSTRUCT IN KIND





METAL BEAM GUARDRAIL DETAIL
Sis-139-4.96



DETAIL A

CONSTRUCTION DETAILS
NO SCALE

C-3

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MICHAEL CONNER	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 06-24-10 | DATE PLOTTED => 09-AUG-2010 | TIME PLOTTED => 10:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
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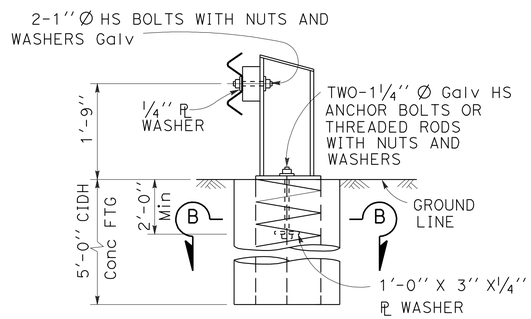
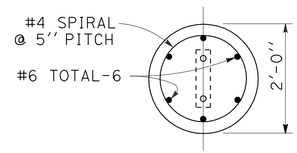
NOTES:

1. CONNECTION DETAILS APPLIES TO THE DEPARTURE END AT RR Xing GATE.
2. DIRECTION OF TRAFFIC INDICATED BY →
3. FOR APPROACH RAILING TRANSITION DETAILS, SEE PLAN SHEET C-3.
4. WHERE 10'' X 10'' DF POSTS ARE SHOWN, W6 X 15 STEEL POST MAY BE USED.
5. RAIL POST ASSEMBLY TO BE GALVANIZED AFTER FABRICATION.



SECTION A-A



SECTION B-B

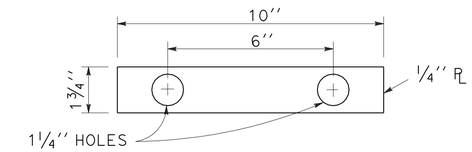
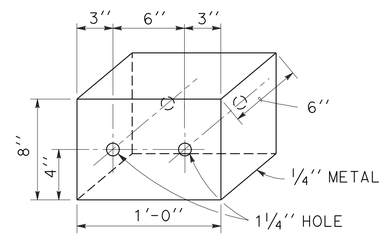
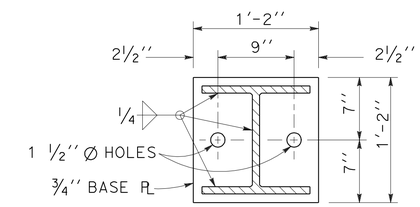


PLATE WASHER

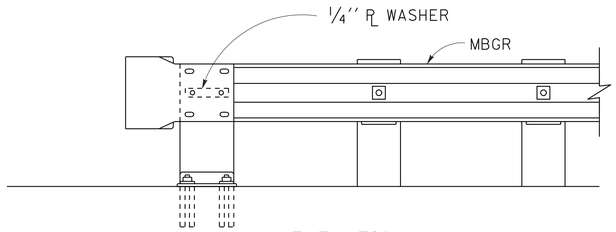


METAL BOX SPACER

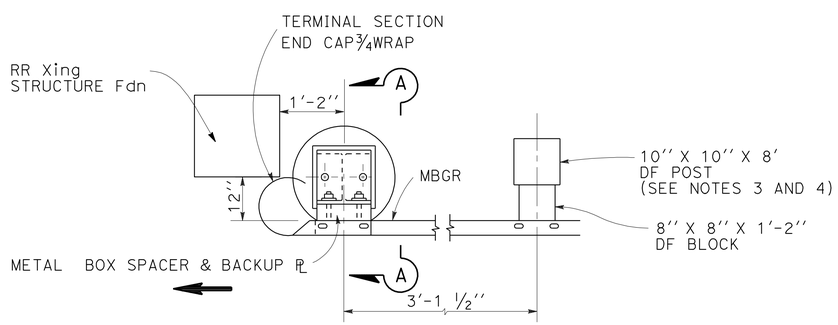
PLACE 1 1/4''X 5 1/4'' PIPE SPACERS ON 1'' BOLTS PASSING THROUGH BOX INTERIOR



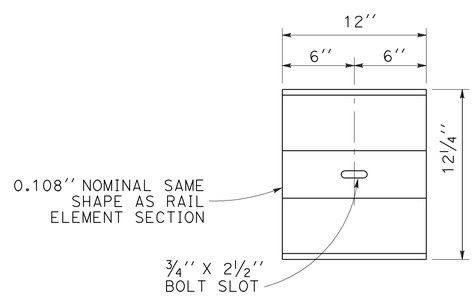
SECTION C-C



ELEVATION

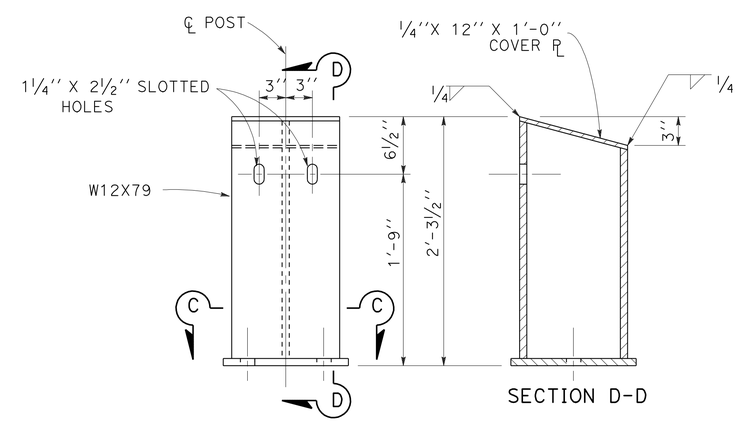


PLAN



BACK-UP PLATE

FOR USE BETWEEN GUARD RAIL ELEMENT AND METAL BOX SPACER



ANCHOR POST ASSEMBLY

SEE NOTE 5

SECTION D-D

TERMINAL DETAIL

W12 X 79 TERMINAL ANCHOR POST DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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

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LAST REVISION 06-24-10 | DATE PLOTTED => 09-AUG-2010 | TIME PLOTTED => 10:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	7	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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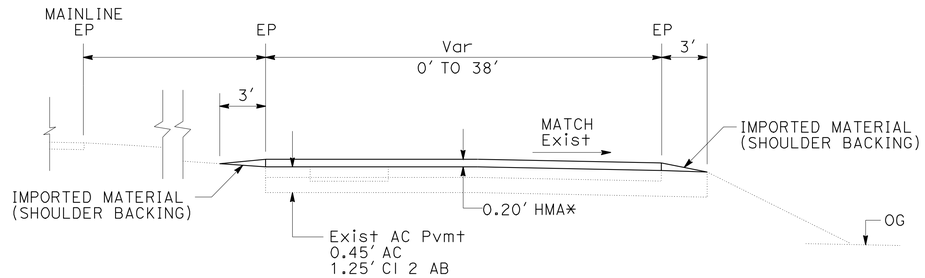
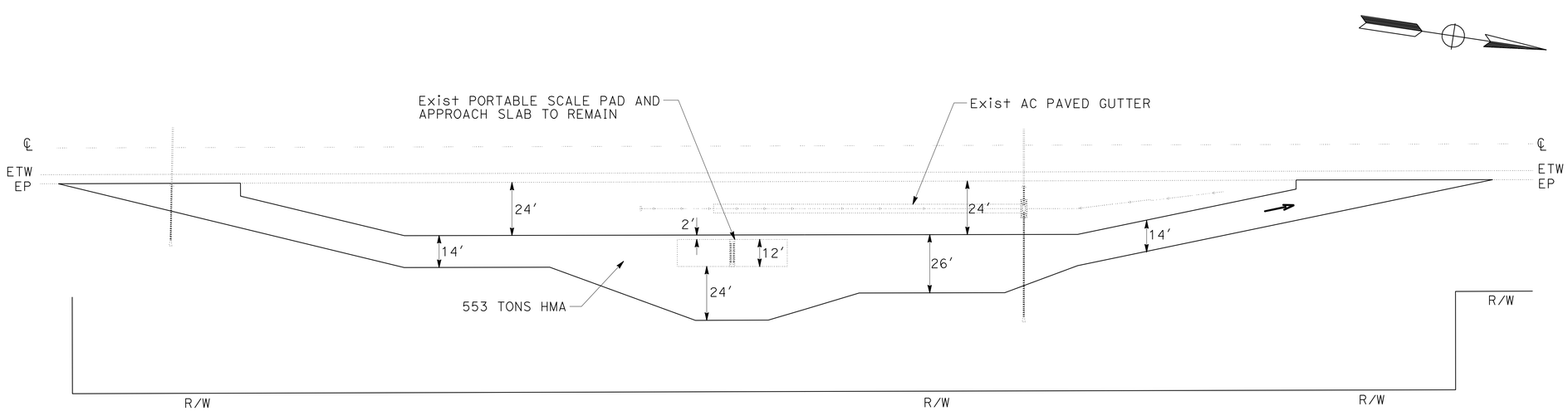


CROSS SECTION AT TRUCK SCALES

PM 39.36-39.73

*PLACED USING STANDARD PROCESS



TRUCK SCALES

PM 39.36-39.73

CONSTRUCTION DETAILS

NO SCALE

C-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	MICHAEL CONNER
CHECKED BY	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	8	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 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.

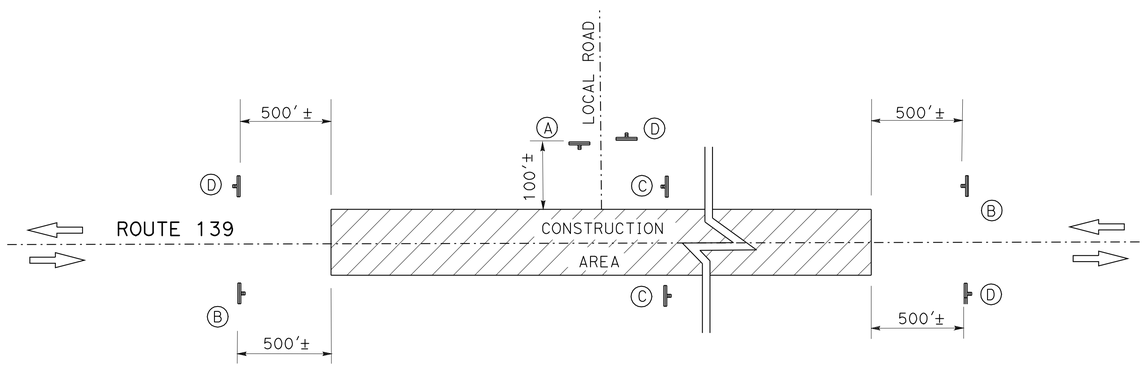
NOTES:

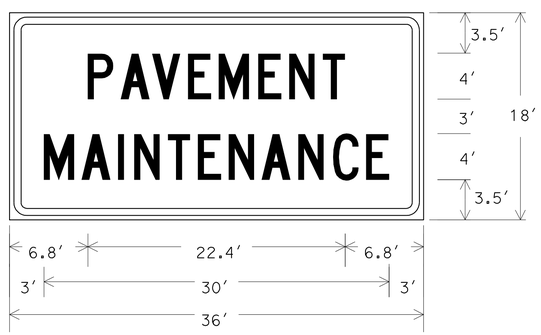
1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
3. INTERMEDIATE G20-1 SIGNS SHOULD BE PLACED EVERY 3 TO 5 MILES AS NECESSARY.

LEGEND:

ONE POST STATIONARY MOUNTED SIGN.

DIRECTION OF TRAVEL





1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
[PAVEMENT] C;
[MAINTENANCE] C;

C23B(CA) SIGN PANEL DETAIL

ROAD CONNECTIONS

Co-Rte	PM	LOCATION
Mod-139	35.07	USFS Rd - Lt
	38.11	No SADDLE BLANKET Rd - Rt & Lt
	40.54	ROAD CONNECTION - Rt
	41.36	HUFFMAN RANCH Rd - Lt
	41.90	COUNTY Rd 125 - Lt
	41.95	COUNTY Rd 169 - Rt
	42.54	COUNTY Rd 140 - Rt & Lt
	42.85	COUNTY Rd - Lt
	44.17	COUNTY Rd 141 - Rt & COUNTY Rd 120 - Lt
	44.46	GLENDALE St - Rt
	44.52	FRESNO St - Rt
	44.59	EUREKA St - Rt & Lt
	44.66	NEWELL SCHOOL St - Rt
	44.82	COUNTY Rd 176 - Rt
	45.16	COUNTY Rd 155 - Rt & Lt
	45.69	COUNTY Rd 99A - Rt
	45.76	COUNTY Rd 99 - Lt
	46.48	COUNTY Rd 112 - Rt & Lt
	47.26	COUNTY Rd 156 - Rt & Lt
	47.71	COUNTY Rd 111 - Lt
	47.75	ROAD CONNECTION - Lt
	47.76	COUNTY Rd 111 - Rt
	48.86	COUNTY Rd 101 - Rt
	49.12	SUTTON Blvd - Rt
	50.15	COUNTY Rd 102 - Rt
	50.52	COUNTY Rd 103B - Rt & COUNTY Rd 103 - Lt
	50.57	ROAD CONNECTION - Lt
	50.59	ROAD CONNECTION - Lt
Sis-139	0.10	COUNTY Rd 103A - Rt
	0.76	ROAD CONNECTION - Lt
	1.04	EAST-WEST Rd - Rt & Lt
	1.45	HAVLINA Rd - Rt & MAIN St - Lt
	2.36	AKINS Rd - Rt & YOST Rd - Lt
	3.14	GOLDEN Rd - Lt
	3.32	OLSEN Rd - Rt & Lt
	3.94	WALSH Rd - Rt
	5.04	STATE LINE Rd - Rt & ROUTE 161 - Lt

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

	TYPE	PANEL SIZE INCHES	SIGN MESSAGE	NO. OF POSTS AND SIZE	NO OF SIGNS
A	W20-1 C23B(CA)	48" x 48" 36" x 18"	ROAD WORK AHEAD "WORK DESCRIPTION"	1- 4" x 6"	50
B	G20-1 C23B(CA)	36" x 18" 36" x 18"	ROAD WORK NEXT XX MILES "WORK DESCRIPTION"	1- 4" x 6"	2
C	G20-1	36" x 18"	ROAD WORK NEXT XX MILES	1- 4" x 4"	10
D	G20-2	36" x 18"	END ROAD WORK	1- 4" x 4"	52

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	9	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

Co-Rte	POST MILE LIMITS	DETAIL 6	DETAIL 12	DETAIL 19	DETAIL 22	DETAIL 27B	DETAIL 27C	DETAIL 29	DETAIL 32	DETAIL 38	DETAIL 38A
	PM-PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
Mod-139	34.00-50.68	42,927	0	20,645	19,695	166,848	10,824	2535	1901	3168	710
Sis-139	0.00-5.04	13,728	1901	3644	6653	49,104	4436	2060	159	1901	0
SUB-TOTAL		56,655	1901	24,289	26,348	215,952	15,260	4595	2060	5069	710
TOTAL		352,839									

LEGEND

⇨ DIRECTION OF TRAFFIC

REMOVE THERMOPLASTIC PAVEMENT MARKING

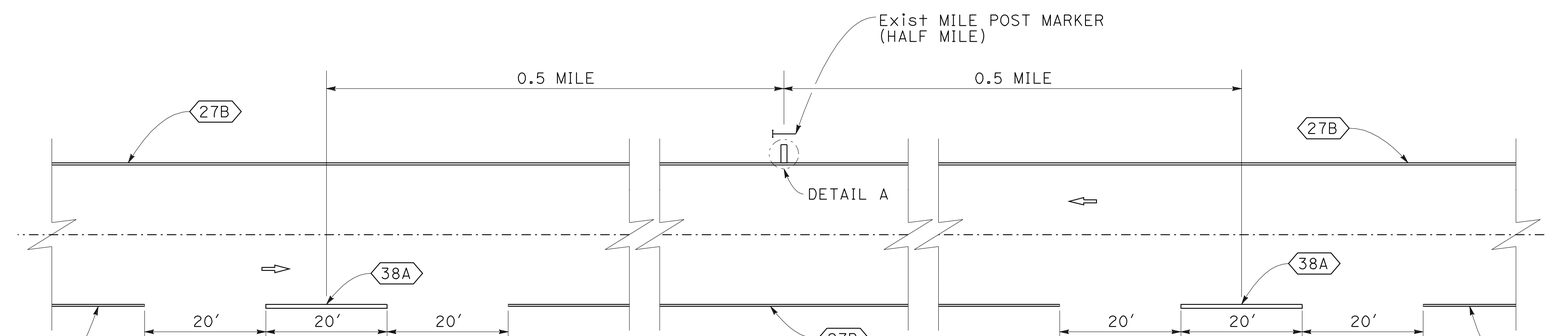
Co-Rte	PM	Lt	Rt	EA	SQFT	REMARKS
Mod-139	35.07	X		1	22.0	STOP
	35.07	X		1	33.0	ROAD CONNECTION LIMIT LINE
	38.11	X	X	2	44.0	STOP
	38.11	X	X	2	65.0	ROAD CONNECTION LIMIT LINE
	40.54		X	1	22.0	STOP
	40.54		X	1	46.0	ROAD CONNECTION LIMIT LINE
	41.36	X		1	22.0	STOP
	41.36	X		1	53.0	ROAD CONNECTION LIMIT LINE
	41.90	X		1	22.0	STOP
	41.90	X		1	52.0	ROAD CONNECTION LIMIT LINE
	41.95		X	1	22.0	STOP
	41.95		X	1	51.0	ROAD CONNECTION LIMIT LINE
	42.54	X	X	2	44.0	STOP
	42.54	X	X	2	72.0	ROAD CONNECTION LIMIT LINE
	42.85	X		1	22.0	STOP
	42.85	X		1	51.0	ROAD CONNECTION LIMIT LINE
	42.85	X		1	70.0	RAILROAD CROSSING SYMBOL
	42.85	X		1	30.0	2' x 0' x 15' TRANSVERSE LINE
	42.85	X		1	50.0	2' x 0' x 25' TRANSVERSE LINE
	44.17	X	X	2	44.0	STOP
	44.17	X	X	2	93.0	ROAD CONNECTION LIMIT LINE
	44.46		X	1	22.0	STOP
	44.46		X	1	33.0	ROAD CONNECTION LIMIT LINE
	44.52		X	1	22.0	STOP
	44.52		X	1	31.0	ROAD CONNECTION LIMIT LINE
	44.59	X	X	2	44.0	STOP
	44.59	X	X	2	53.0	ROAD CONNECTION LIMIT LINE
	44.66		X	1	22.0	STOP
	44.66		X	1	31.0	ROAD CONNECTION LIMIT LINE
	44.82		X	1	22.0	STOP
	44.82		X	1	47.0	ROAD CONNECTION LIMIT LINE
	45.16	X	X	2	44.0	STOP
	45.16	X	X	2	97.0	ROAD CONNECTION LIMIT LINE
	45.69		X	1	22.0	STOP
SUBTOTAL					1420.0	

REMOVE THERMOPLASTIC PAVEMENT MARKING

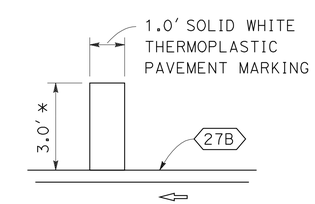
Co-Rte	PM	Lt	Rt	EA	SQFT	REMARKS
Mod-139	45.69		X	1	32.0	ROAD CONNECTION LIMIT LINE
	45.76	X		1	22.0	STOP
	45.76	X		1	47.0	ROAD CONNECTION LIMIT LINE
	46.48	X	X	2	44.0	STOP
	46.48	X	X	2	93.0	ROAD CONNECTION LIMIT LINE
	47.26	X		2	44.0	STOP
	47.26	X		2	65.0	ROAD CONNECTION LIMIT LINE
	47.71	X		1	22.0	STOP
	47.71	X		1	52.0	ROAD CONNECTION LIMIT LINE
	47.75	X		1	22.0	STOP
	47.75	X		1	44.0	ROAD CONNECTION LIMIT LINE
	47.76		X	1	22.0	STOP
	47.76		X	1	56.0	ROAD CONNECTION LIMIT LINE
	48.86		X	1	22.0	STOP
	48.86		X	1	50.0	ROAD CONNECTION LIMIT LINE
	49.12		X	1	22.0	STOP
	49.12		X	1	44.0	ROAD CONNECTION LIMIT LINE
	50.15		X	1	22.0	STOP
	50.15		X	1	58.0	ROAD CONNECTION LIMIT LINE
	50.52	X	X	2	44.0	STOP
	50.52	X	X	2	97.0	ROAD CONNECTION LIMIT LINE
	50.57		X	1	22.0	STOP
	50.57		X	1	25.0	ROAD CONNECTION LIMIT LINE
	50.59		X	1	22.0	STOP
	50.59		X	1	23.0	ROAD CONNECTION LIMIT LINE
Sis-139	0.10		X	1	22.0	STOP
	0.10		X	1	56.0	ROAD CONNECTION LIMIT LINE
	0.76	X		1	22.0	STOP
	0.76	X		1	36.0	ROAD CONNECTION LIMIT LINE
	1.00		X	1	42.0	TYPE III (L) ARROW
	1.04	X	X	2	44.0	STOP
	1.04	X	X	2	80.0	ROAD CONNECTION LIMIT LINE
	1.09	X		1	42.0	TYPE III (L) ARROW
	1.40		X	1	42.0	TYPE III (L) ARROW
SUBTOTAL					1402.0	

REMOVE THERMOPLASTIC PAVEMENT MARKING

Co-Rte	PM	Lt	Rt	EA	SQFT	REMARKS
Sis-139	1.45	X	X	2	44.0	STOP
	1.45	X	X	2	102.0	ROAD CONNECTION LIMIT LINE
	1.45	X		1	42.0	TYPE III (L) ARROW
	1.45		X	1	42.0	TYPE III (L) ARROW
	1.51	X		1	42.0	TYPE III (L) ARROW
	2.32		X	1	42.0	TYPE III (L) ARROW
	2.36	X	X	2	44.0	STOP
	2.36	X	X	2	120.0	ROAD CONNECTION LIMIT LINE
	2.44	X		1	42.0	TYPE III (L) ARROW
	3.14	X		1	22.0	STOP
	3.14	X		1	54.0	ROAD CONNECTION LIMIT LINE
	3.32	X	X	2	44.0	STOP
	3.32	X	X	2	69.0	ROAD CONNECTION LIMIT LINE
	3.94		X	1	22.0	STOP
	3.94		X	1	51.0	ROAD CONNECTION LIMIT LINE
	4.87	X		1	42.0	TYPE VI ARROW
	4.91	X		1	42.0	TYPE VI ARROW
	4.92		X	2	140.0	RAILROAD CROSSING SYMBOL
	4.92		X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.94		X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.97	X		2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.98	X		2	140.0	RAILROAD CROSSING SYMBOL
	4.98	X		2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.98		X	1	42.0	TYPE VI ARROW
	5.00		X	1	42.0	TYPE III (L) ARROW
	5.04		X	2	84.0	TYPE III (L) ARROW
	5.04		X	1	42.0	TYPE VI ARROW
	5.04	X	X	2	44.0	STOP
	5.04	X	X	2	134.0	ROAD CONNECTION LIMIT LINE
	5.04	X		2	140.0	RAILROAD CROSSING SYMBOL
	5.04	X		6	144.0	2' x 0" x 12' TRANSVERSE LINE
	5.04	X	X	2	485.0	PAINTED ISLAND
	5.04	X		1	42.0	TYPE III (L) ARROW
SUBTOTAL					2729.0	
TOTAL					5551.0	



TYPICAL HALF MILE AND MILE POST STRIPE



DETAIL A

* ACTUAL LENGTH MAY VARY DUE TO PAVEMENT WIDTH

PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDQ-1

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	10	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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NOTE:
1. ALL RECESSES SHALL BE TYPE 2.

ABBREVIATIONS

Mid MIDDLE

THERMOPLASTIC PAVEMENT MARKING

Co-Rte	PM	Lt	Mid	Rt	EA	SQFT	REMARKS
Mod-139	34.50	X			1	3.0	DETAIL A
	35.07	X			1	22.0	STOP
	35.07	X			1	33.0	ROAD CONNECTION LIMIT LINE
	35.50	X			1	3.0	DETAIL A
	36.50	X			1	3.0	DETAIL A
	37.50	X			1	3.0	DETAIL A
	38.11	X		X	2	44.0	STOP
	38.11	X		X	2	65.0	ROAD CONNECTION LIMIT LINE
	38.50	X			1	3.0	DETAIL A
	39.50	X			1	3.0	DETAIL A
	39.65			X	1	33.0	TYPE V ARROW
	40.50	X			1	3.0	DETAIL A
	40.54			X	1	22.0	STOP
	40.54			X	1	46.0	ROAD CONNECTION LIMIT LINE
	40.56	X			1	42.0	TYPE III (L) ARROW
	41.36	X			1	22.0	STOP
	41.36	X			1	53.0	ROAD CONNECTION LIMIT LINE
	41.50	X			1	3.0	DETAIL A
	41.90	X			1	22.0	STOP
	41.90	X			1	52.0	ROAD CONNECTION LIMIT LINE
	41.95			X	1	22.0	STOP
	41.95			X	1	51.0	ROAD CONNECTION LIMIT LINE
	42.48			X	1	42.0	TYPE III (L) ARROW
	42.50	X			1	3.0	DETAIL A
	42.54	X		X	2	44.0	STOP
	42.54	X		X	2	72.0	ROAD CONNECTION LIMIT LINE
	42.55	X			1	42.0	TYPE III (L) ARROW
	42.58	X			1	42.0	TYPE III (L) ARROW
	42.80			X	1	42.0	TYPE III (L) ARROW
	42.85	X			1	22.0	STOP
	42.85	X			1	51.0	ROAD CONNECTION LIMIT LINE
	42.85			X	1	42.0	TYPE III (L) ARROW
	42.85	X			1	70.0	RAILROAD CROSSING SYMBOL
	42.85	X			1	30.0	2' x 0' x 15' TRANSVERSE LINE
	42.85	X			1	50.0	2' x 0' x 25' TRANSVERSE LINE
	43.50	X			1	3.0	DETAIL A
	44.17	X		X	2	44.0	STOP
	44.17	X		X	2	93.0	ROAD CONNECTION LIMIT LINE
	44.25			X	2	140.0	RAILROAD CROSSING SYMBOL
	44.25			X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	44.30			X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	44.33	X			2	96.0	2' x 0" x 24' TRANSVERSE LINE
	44.37	X			2	140.0	RAILROAD CROSSING SYMBOL
	44.37	X			2	96.0	2' x 0" x 24' TRANSVERSE LINE
	44.46			X	1	22.0	STOP
	44.46			X	1	33.0	ROAD CONNECTION LIMIT LINE
	44.47		X		1	42.0	TYPE III (L) ARROW
	44.50	X			1	3.0	DETAIL A
	44.52			X	1	22.0	STOP
	44.52			X	1	31.0	ROAD CONNECTION LIMIT LINE
	44.54		X		2	84.0	TYPE III (L) ARROW
	44.59	X		X	2	44.0	STOP
	44.59	X		X	2	53.0	ROAD CONNECTION LIMIT LINE
	44.61		X		2	84.0	TYPE III (L) ARROW
	44.66			X	1	22.0	STOP
	44.66			X	1	31.0	ROAD CONNECTION LIMIT LINE
	44.72		X		2	84.0	TYPE III (L) ARROW
	44.82			X	1	22.0	STOP
	44.82			X	1	47.0	ROAD CONNECTION LIMIT LINE
	44.82	X			1	42.0	TYPE III (L) ARROW
	44.85	X			1	42.0	TYPE III (L) ARROW
SUBTOTAL						2617.0	

THERMOPLASTIC PAVEMENT MARKING

Co-Rte	PM	Lt	Mid	Rt	EA	SQFT	REMARKS
Mod-139	45.16	X		X	2	44.0	STOP
	45.16	X		X	2	97.0	ROAD CONNECTION LIMIT LINE
	45.20	X			1	42.0	TYPE III (L) ARROW
	45.50	X			1	3.0	DETAIL A
	45.69			X	1	22.0	STOP
	45.69			X	1	32.0	ROAD CONNECTION LIMIT LINE
	45.76	X			1	22.0	STOP
	45.76	X			1	47.0	ROAD CONNECTION LIMIT LINE
	46.48	X		X	2	44.0	STOP
	46.48	X		X	2	93.0	ROAD CONNECTION LIMIT LINE
	46.50	X			1	3.0	DETAIL A
	46.51	X			1	42.0	TYPE III (L) ARROW
	47.26	X		X	2	44.0	STOP
	47.26	X		X	2	65.0	ROAD CONNECTION LIMIT LINE
	47.50	X			1	3.0	DETAIL A
	47.67			X	2	140.0	RAILROAD CROSSING SYMBOL
	47.67			X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	47.71	X			1	22.0	STOP
	47.71	X			1	52.0	ROAD CONNECTION LIMIT LINE
	47.73			X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	47.74	X			2	96.0	2' x 0" x 24' TRANSVERSE LINE
	47.75	X			1	22.0	STOP
	47.75	X			1	44.0	ROAD CONNECTION LIMIT LINE
	47.76			X	1	22.0	STOP
	47.76			X	1	56.0	ROAD CONNECTION LIMIT LINE
	47.77	X			2	140.0	RAILROAD CROSSING SYMBOL
	47.77	X			2	96.0	2' x 0" x 24' TRANSVERSE LINE
	48.50	X			1	3.0	DETAIL A
	48.86			X	1	22.0	STOP
	48.86			X	1	50.0	ROAD CONNECTION LIMIT LINE
	49.12			X	1	22.0	STOP
	49.12			X	1	44.0	ROAD CONNECTION LIMIT LINE
	49.50	X			1	3.0	DETAIL A
	50.15			X	1	22.0	STOP
	50.15			X	1	58.0	ROAD CONNECTION LIMIT LINE
	50.45			X	1	42.0	TYPE III (L) ARROW
	50.50	X			1	3.0	DETAIL A
	50.52	X		X	2	44.0	STOP
	50.52	X		X	2	97.0	ROAD CONNECTION LIMIT LINE
	50.57			X	1	22.0	STOP
	50.57			X	1	25.0	ROAD CONNECTION LIMIT LINE
	50.59			X	1	22.0	STOP
	50.59			X	1	23.0	ROAD CONNECTION LIMIT LINE
Sis-139	0.10			X	1	22.0	STOP
	0.10			X	1	56.0	ROAD CONNECTION LIMIT LINE
	0.50	X			1	3.0	DETAIL A
	0.76	X			1	22.0	STOP
	0.76	X			1	36.0	ROAD CONNECTION LIMIT LINE
	1.00			X	1	42.0	TYPE III (L) ARROW
	1.04	X		X	2	44.0	STOP
	1.04	X		X	2	80.0	ROAD CONNECTION LIMIT LINE
	1.09	X			1	42.0	TYPE III (L) ARROW
	1.40			X	1	42.0	TYPE III (L) ARROW
	1.45	X		X	2	44.0	STOP
SUBTOTAL						2420.0	

THERMOPLASTIC PAVEMENT MARKING

Co-Rte	PM	Lt	Mid	Rt	EA	SQFT	REMARKS
Sis-139	1.45	X		X	2	102.0	ROAD CONNECTION LIMIT LINE
	1.45	X			1	42.0	TYPE III (L) ARROW
	1.45			X	1	42.0	TYPE III (L) ARROW
	1.50	X			1	3.0	DETAIL A
	1.51	X			1	42.0	TYPE III (L) ARROW
	2.32			X	1	42.0	TYPE III (L) ARROW
	2.36	X		X	2	44.0	STOP
	2.36	X		X	2	120.0	ROAD CONNECTION LIMIT LINE
	2.44	X			1	42.0	TYPE III (L) ARROW
	2.50	X			1	3.0	DETAIL A
	3.14	X			1	22.0	STOP
	3.14	X			1	54.0	ROAD CONNECTION LIMIT LINE
	3.32	X		X	2	44.0	STOP
	3.32	X		X	2	69.0	ROAD CONNECTION LIMIT LINE
	3.50	X			1	3.0	DETAIL A
	3.94			X	1	22.0	STOP
	3.94			X	1	51.0	ROAD CONNECTION LIMIT LINE
	4.00	X			1	3.0	DETAIL A
	4.87	X			1	42.0	TYPE VI ARROW
	4.91	X			1	42.0	TYPE VI ARROW
	4.92			X	2	140.0	RAILROAD CROSSING SYMBOL
	4.92			X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.94			X	2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.97	X			2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.98	X			2	140.0	RAILROAD CROSSING SYMBOL
	4.98	X			2	96.0	2' x 0" x 24' TRANSVERSE LINE
	4.98			X	1	42.0	TYPE VI ARROW
	5.00			X	1	42.0	TYPE III (L) ARROW
	5.04			X	2	84.0	TYPE III (L) ARROW
	5.04			X	1	42.0	TYPE VI ARROW
	5.04	X		X	2	44.0	STOP
	5.04	X		X	2	134.0	ROAD CONNECTION LIMIT LINE
	5.04	X			2	140.0	RAILROAD CROSSING SYMBOL
	5.04	X			6	144.0	2' x 0" x 12' TRANSVERSE LINE
	5.04	X		X	2	485.0	PAINTED ISLAND
	5.04	X			1	42.0	TYPE III (L) ARROW
	5.50	X			1	3.0	DETAIL A
SUBTOTAL						2700.0	
TOTAL						7737.0	

PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)

Co-Rte-PM	TYPE D	TYPE G	TYPE H
	EA	EA	EA
Mod-139-34.00/50.68	3582	134	862
Sis-139-0.00/5.04	1131	121	153
SUBTOTAL	4713	255	1015
TOTAL	5983		

SEE NOTE 1

PAVEMENT DELINEATION QUANTITIES

PDQ-2

REVISED BY | DATE REVISED
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06-24-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	11	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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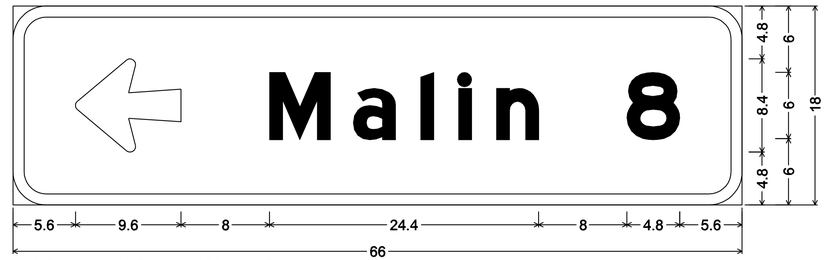
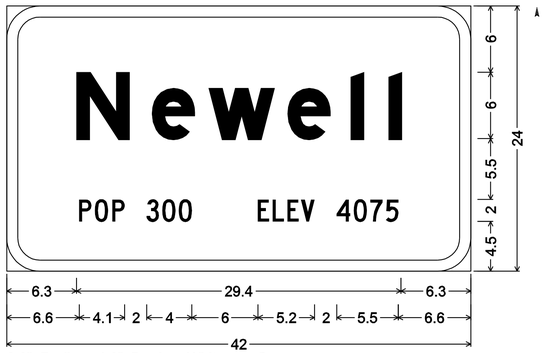


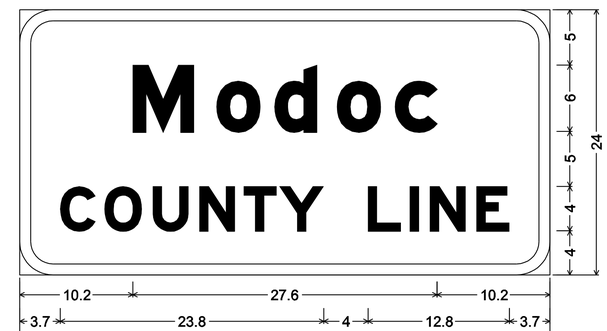
3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Malin] E Mod; [8] E Mod;

G1 (Ca)
PM 47.88/L†



3.0" Radius, 1.0" Border, White on Green;
[Newell] E Mod; [POP 300 ELEV 4075] C;

G9 (Ca)
PM 44.23/R† & PM 45.25/L†

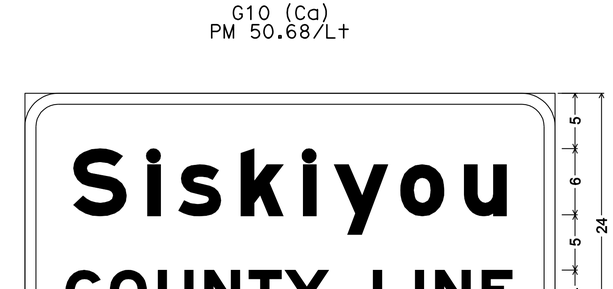


3.0" Radius, 1.0" Border, White on Green;
[Modoc] E Mod; [COUNTY LINE] E Mod;

G10 (Ca)
PM 50.68/L†

6.0" Radius, 1.0" Border, White on Green;
[Canby] E Mod; [Alturas] E Mod; [Susanville] E Mod; [44] E Mod; [61] E Mod; [131] E Mod;

G5 (Ca)
PM 44.11/L†



3.0" Radius, 1.0" Border, White on Green;
[Siskiyou] E Mod; [COUNTY LINE] E Mod;

G10 (Ca)
PM 50.68/R†

SIGN DETAILS

NO SCALE **SD-1**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	12	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

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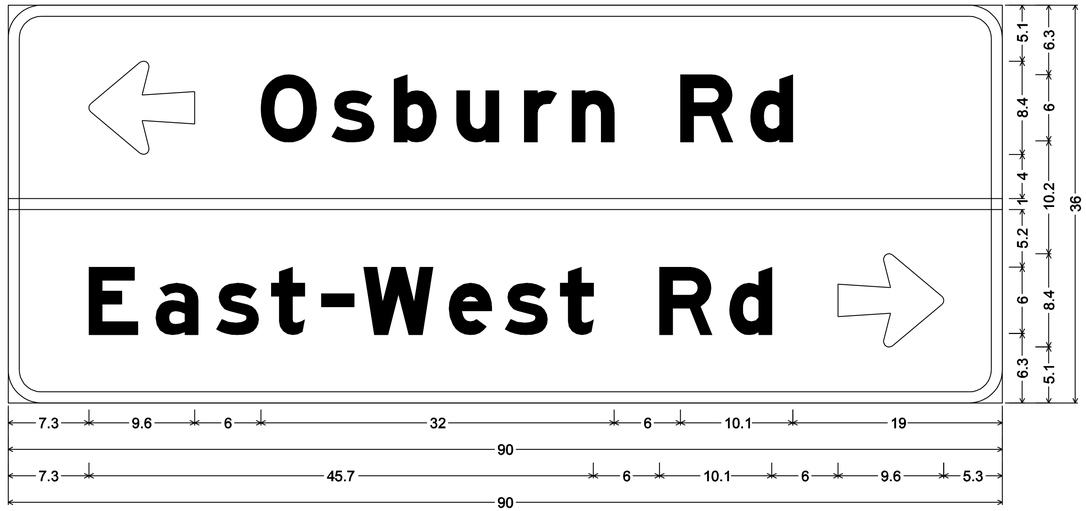
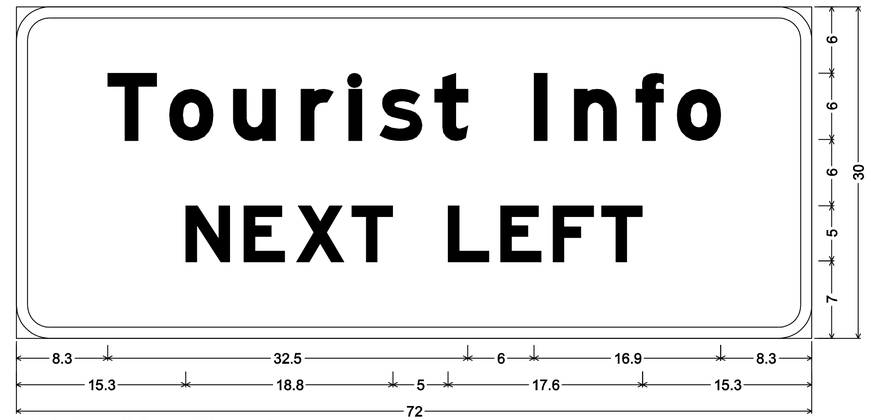


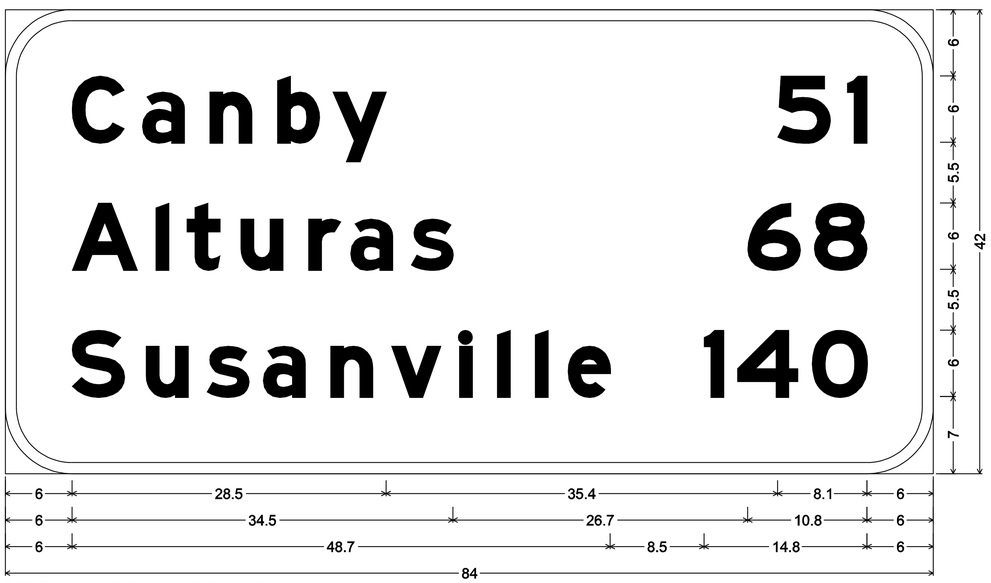
3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Osburn Rd] E Mod; [East-West Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8 (Ca)
PM 1.15/L†



3.0" Radius, 1.0" Border, White on Blue;
[Tourist Info] E Mod; [NEXT LEFT] E Mod;

G81(Ca)
PM 1.31/R†



6.0" Radius, 1.0" Border, White on Green;
[Canby] E Mod; [Alturas] E Mod; [Susanville] E Mod; [51] E Mod; [68] E Mod; [140] E Mod;

G5(Ca)
PM 0.52/L†

3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [East-West Rd] E Mod; [Osborne Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 0.98/R†

SIGN DETAILS

NO SCALE **SD-2**

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06-24-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	13	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

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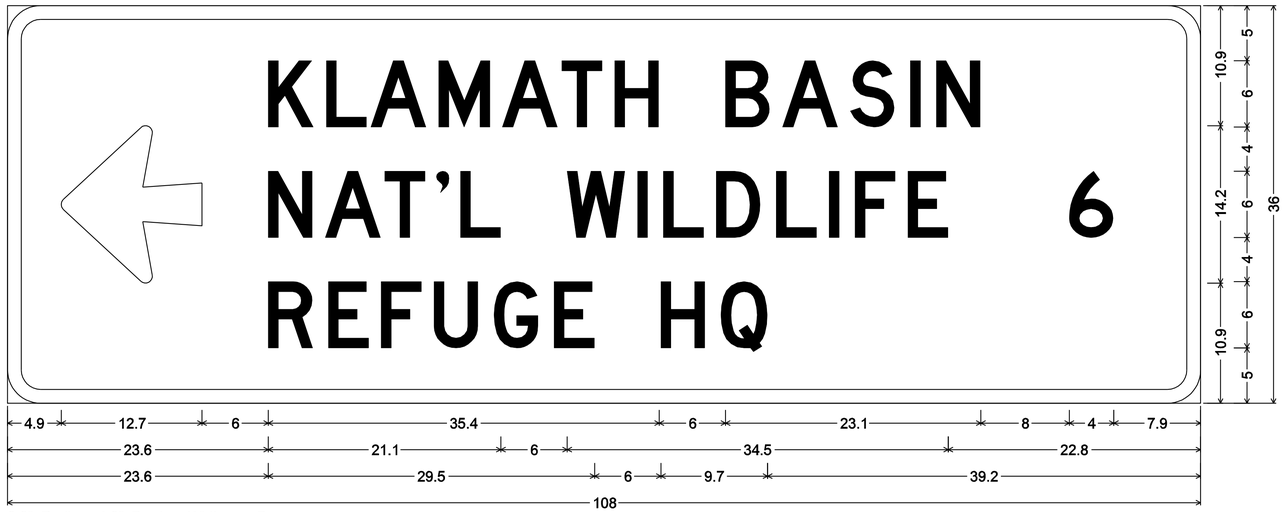
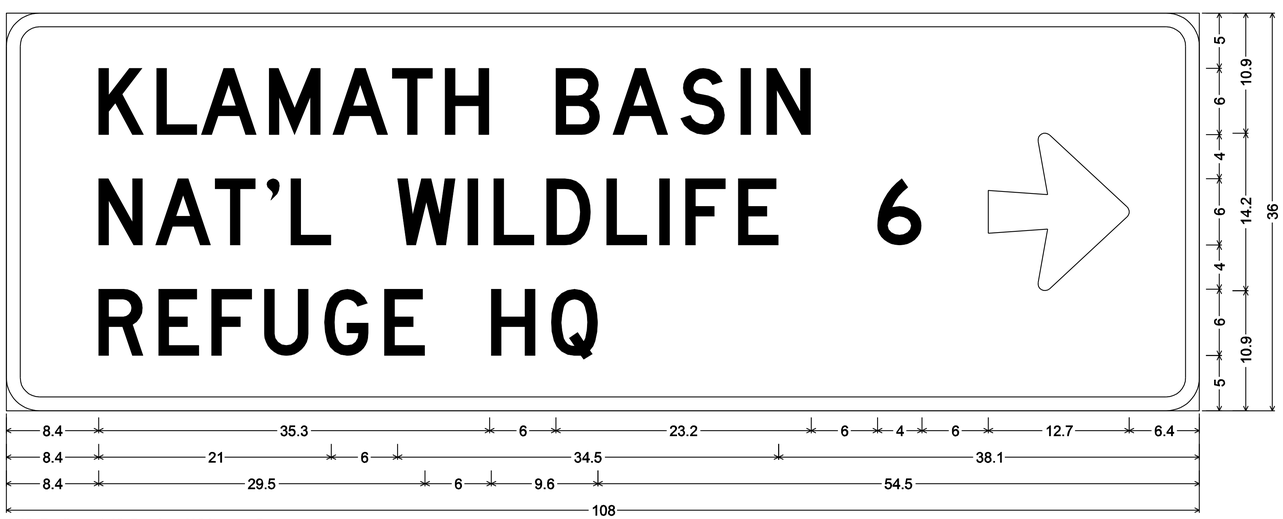


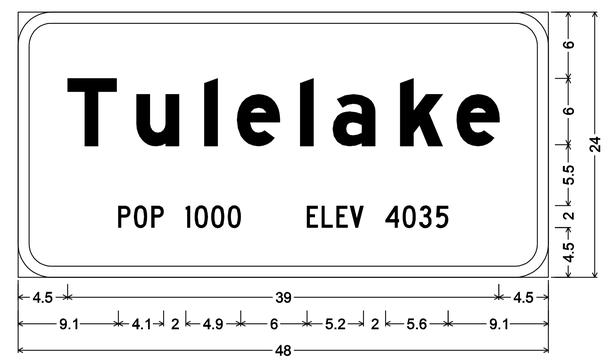
3.0" Radius, 1.3" Border, White on Brown;
Arrow 6CAP-2LH - 12.8" 180°; [KLAMATH BASIN] D; [NAT'L WILDLIFE] D; [REFUGE HQ] D; [6] D;

G72(Ca)
PM 1.02/R†



3.0" Radius, 1.3" Border, White on Brown;
[KLAMATH BASIN] D; [NAT'L WILDLIFE] D; [REFUGE HQ] D; [6] D; Arrow 6CAP-2LH - 12.8" 0°;

G72(Ca)
PM 1.08/R†



3.0" Radius, 1.0" Border, White on Green;
[Tulelake] E Mod; [POP 1000 ELEV 4035] C;

G9(Ca)
PM 0.66/R†

SIGN DETAILS

NO SCALE **SD-3**

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	14	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

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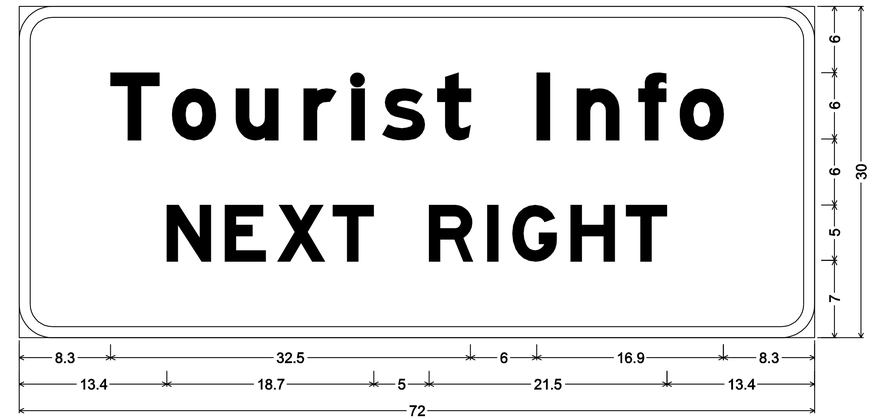
3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Main St] E Mod; [Havlina Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 1.40/R†

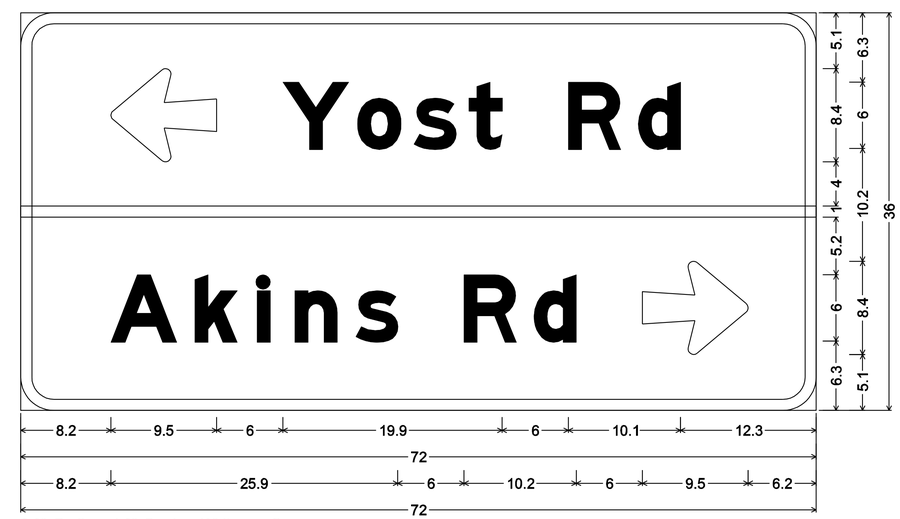


3.0" Radius, 1.0" Border, White on Blue;
[Tourist Info] E Mod; [NEXT RIGHT] E Mod;

G81(Ca)
PM 1.60/L†

3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Havlina Rd] E Mod; [Main St] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 1.56/L†



3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Yost Rd] E Mod; [Akins Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 2.29/R†

SIGN DETAILS

NO SCALE **SD-4**

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06-24-10 | TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	15	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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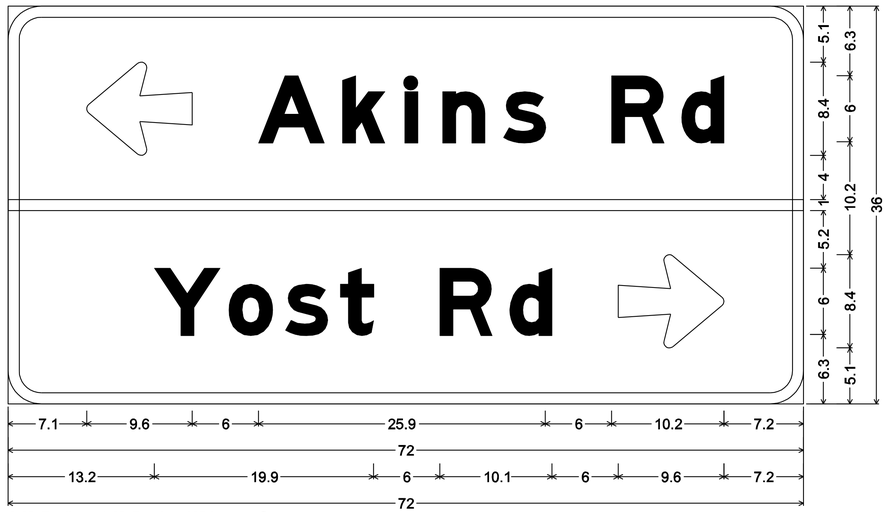
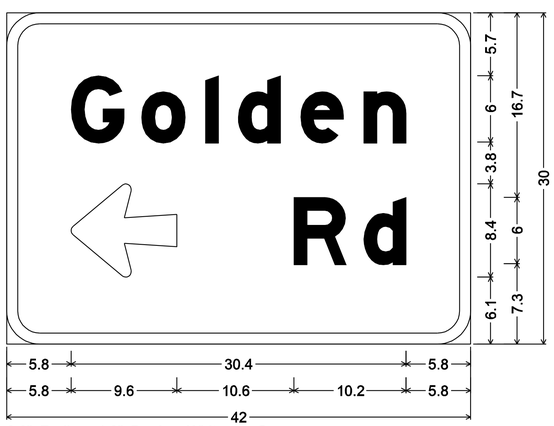


3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Akins Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 2.46/L†

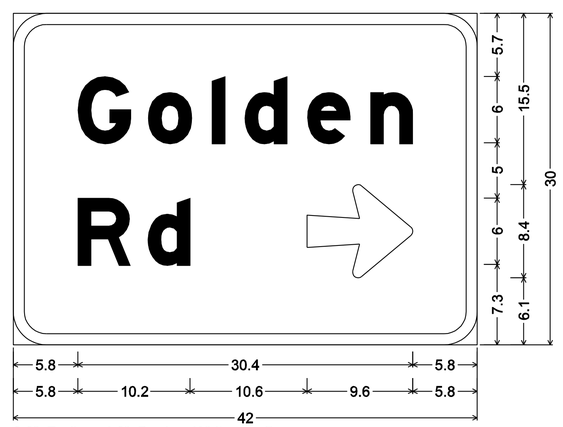
3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Bently Rd] E Mod; [Tschirky Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM3.23/R†



3.0" Radius, 1.0" Border, White on Green;
[Golden] E Mod; Arrow 6UC-1L - 9.6" 180°; [Rd] E Mod;

G8(Ca)
PM 3.05/R†



3.0" Radius, 1.0" Border, White on Green;
[Golden] E Mod; [Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 3.22/L†

3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Tschirky Rd] E Mod; [Bently Rd] E Mod; Arrow 6UC-1L - 9.6" 0°;

G8(Ca)
PM 3.40/L†

SIGN DETAILS

NO SCALE **SD-5**

REVISED BY | DATE REVISED
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	16	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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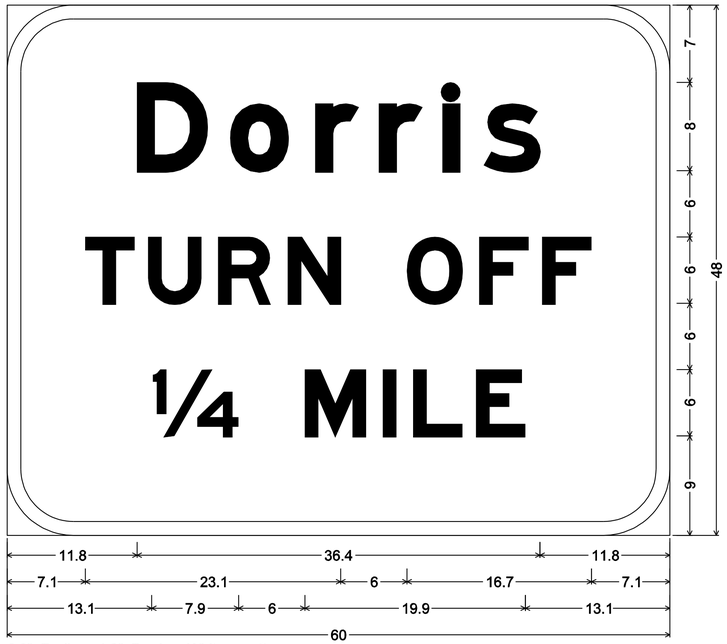
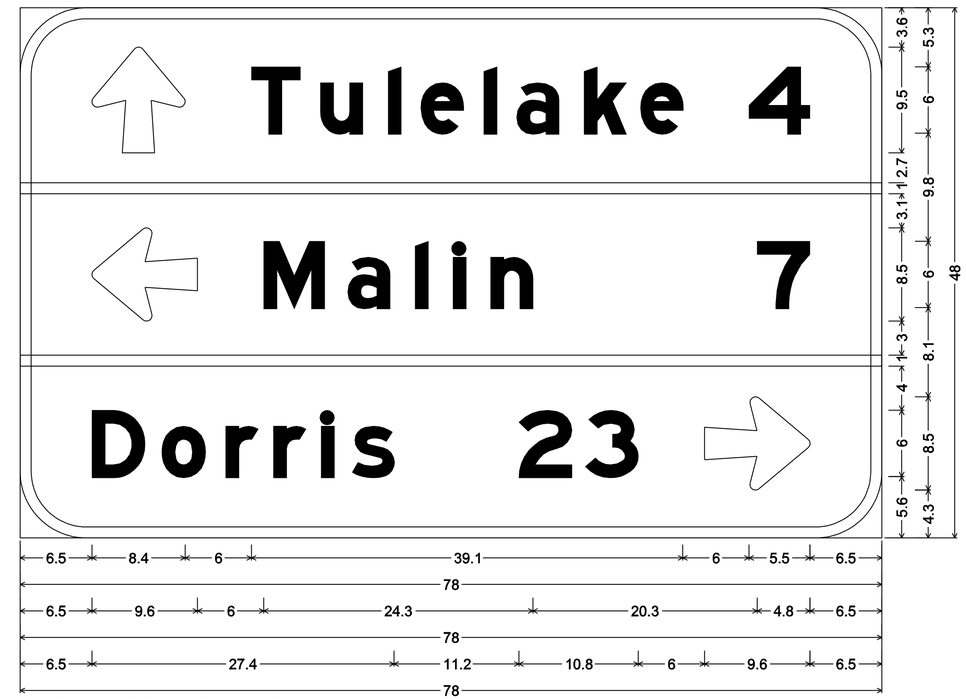


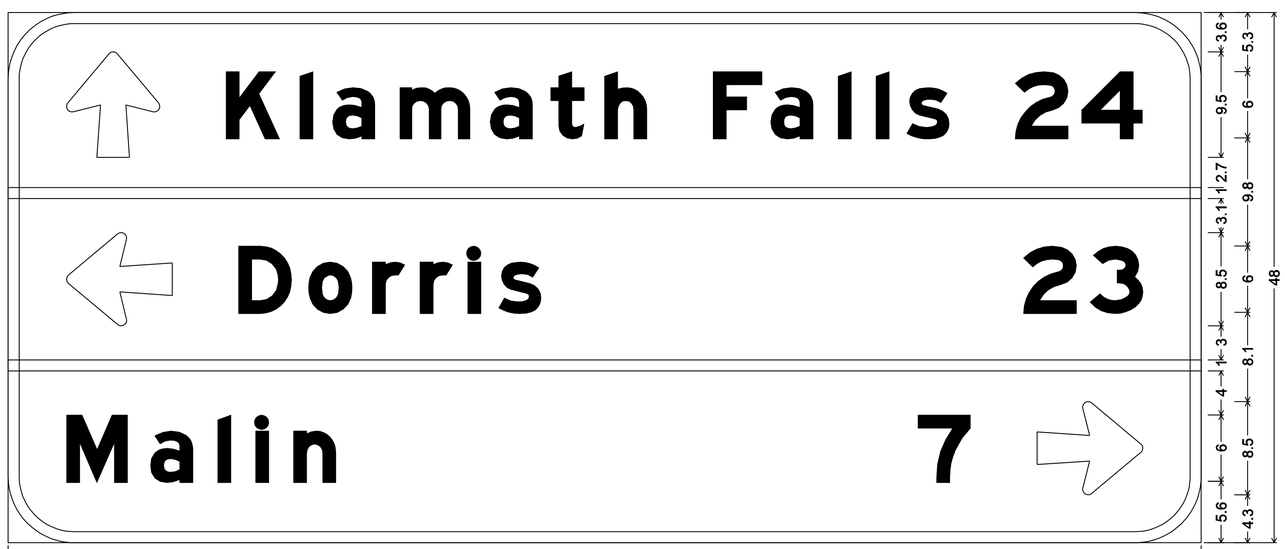
6.0" Radius, 1.3" Border, White on Green;
[Dorris] E Mod; [TURN OFF] E Mod; [¼ MILE] E Mod;

G22(Ca)
PM 4.86/R†



6.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 90°; [Tulelake] E Mod; [4] E Mod; Arrow 6UC-1L - 9.6" 180°; [Malin] E Mod; [7] E Mod;
[Dorris] E Mod; [23] E Mod; Arrow 6UC-1L - 9.6" 0°;

G1(Ca)
PM 5.045/L†



6.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 90°; [Klamath Falls] E Mod; [24] E Mod; Arrow 6UC-1L - 9.6" 180°; [Dorris] E Mod; [23] E Mod; [Malin] E Mod; [7] E Mod;
Arrow 6UC-1L - 9.6" 0°;

G1(Ca)
PM 4.98/R†

SIGN DETAILS

NO SCALE **SD-6**

REVISED BY	DATE REVISED
MICHAEL CONNER	KARLIE SMITH
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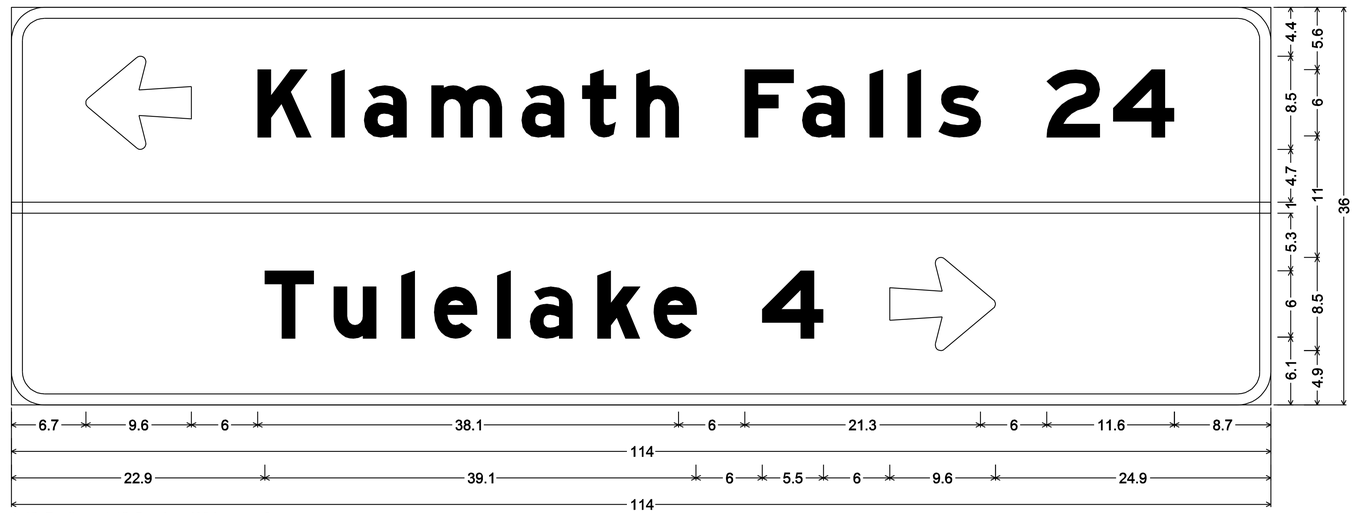
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	17	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 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.



3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 180°; [Klamath Falls 24] E Mod; [Tulelake 4] E Mod; Arrow 6UC-1L - 9.6" 0°;

G1(Ca)
PM 5.04/L†

3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-1L - 9.6" 90°; [Klamath Falls] E Mod; [24] E Mod;

G1(Ca)
PM 5.05/R†

SIGN DETAILS

NO SCALE **SD-7**

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	18	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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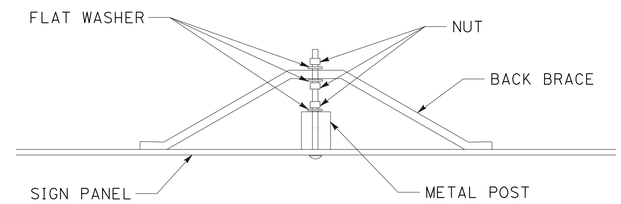
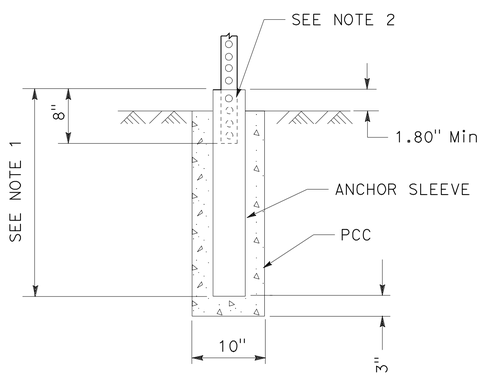
NOTES:

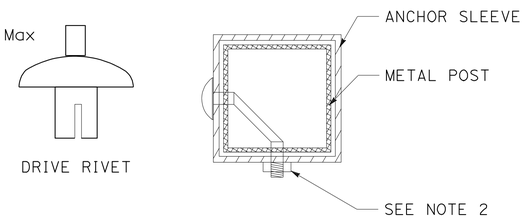
1. USE A 2¼" SQUARE TUBE × 30" LONG, 3/16" THICK ANCHOR FOR 2" POSTS.
   USE A 3" SQUARE TUBE × 3′ LONG, 3/16" THICK ANCHOR FOR 2-1/2 " POSTS.
2. USE A 5/16" CORNER BOLT OR TWO DRIVE RIVETS TO FASTEN ASSEMBLED SIGN AND POST INTO ANCHOR. INSTALL CORNER BOLT OR DRIVE RIVETS INTO THE SIDES FACING TRAFFIC.
3. 2-1/2" POSTS ARE TO BE 1/8" THICK, PERFORATIONS OF 7/16" IN DIAMETER ARE 1" ON CENTER ON ALL SIDES, 2-1/2" POSTS ARE 12′ AND 14′ IN LENGTH.
4. FOR DETAILS NOT SHOWN, REFER TO THE STANDARD PLANS.
5. 2-1/2" POSTS SHALL BE USED IN SIDEWALK AND HIGH PEDESTRIAN USE PLACEMENTS.
6. ALL ANCHOR SLEEVES SHALL BE EMBEDDED IN PCC, EXCEPT FOR INSTALLATIONS IN PAVEMENTS OR SIDEWALKS, OR IN ROCKY SOIL CONDITIONS WHERE APPROVED BY THE ENGINEER.



BACK BRACE MOUNTING DETAIL

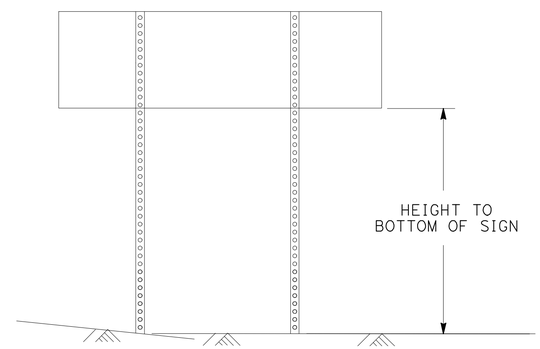


INSTALLATION IN SOIL (PCC)
(SEE NOTE 6)

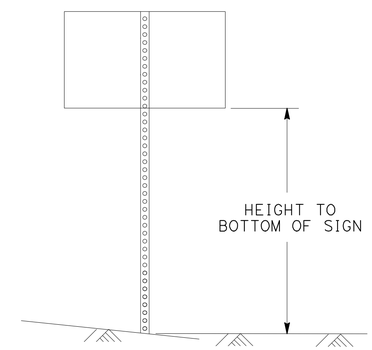


FASTENER DETAILS

METAL SIGN POST INSTALLATION DETAILS



TWO POSTS INSTALLATION
(POST SIZE, SEE CHART BELOW)



SINGLE POST INSTALLATION
(POST SIZE, SEE CHART BELOW)

Max SQFT OF SIGN

POST SIZE	60"	72"	84"	96"	108"	120"
2.5"	35	32	28	24	21	21

HEIGHT TO BOTTOM OF SIGN
DOUBLE POST GROUND SIGNS
70 MPH WIND SPEED

Max SQFT OF SIGN

POST SIZE	60"	72"	84"	96"	108"	120"
2.5"	16	16	16	16	12	12

HEIGHT TO BOTTOM OF SIGN
SINGLE POST GROUND SIGNS
70 MPH WIND SPEED

METAL SIGN POST DETAIL

SIGN DETAILS
NO SCALE **SD-8**

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	19	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 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.

NOTES:

1. CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA), OTHERWISE, FEDERAL MUTCD SIGN CODES ARE SHOWN.
2. POST LENGTH GIVEN IS APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY FIELD MEASUREMENT.
3. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.

ABBREVIATIONS:

FRP	FIBERGLASS REINFORCED PLASTIC
L	LENGTH OR WIDTH OF SIGN
D	DEPTH OR HEIGHT OF SIGN
RSPF	REMOVABLE SIGN PANEL FRAME

CONTRACTOR FURNISHED SIGNS

PM/LOCATION Lt/Rt	SIGN CODE	SIGN SIZE L x D (in x in)	SINGLE FACED	DOUBLE FACED	SIGN FACING MATERIAL						SIGN PANEL SUBSTRATE MATERIAL (SQFT) ROADSIDE SINGLE-SHEET						DESCRIPTION (REMARKS)
					BACKGROUND		LEGEND		PROTECTIVE FILM		FRP	FRAMED ALUMINUM		UNFRAMED ALUMINUM			
					SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	STANDARD	PREMIUM	0.135"	0.063"	0.080"	0.063"	0.080"	0.125"	
MODOC COUNTY (ROUTE 139)																	
44.11 / Lt	G5(Ca)	84 x 42	X		GREEN	III	WHITE	III					24.5				CANBY 44, ALTURAS, 61, SUSANVILLE 131
44.23 / Rt	G9(Ca)	42 x 24	X		GREEN	III	WHITE	III						7.0			NEWELL POP 300 ELEV 4075
45.25 / Lt	G9(Ca)	42 x 24	X		GREEN	III	WHITE	III						7.0			NEWELL POP 300 ELEV 4075
47.88 / Lt	G1(Ca)	66 x 18	X		GREEN	III	WHITE	III							8.0		← MALIN 8
50.68 / Lt	G10(Ca)	48 x 24	X		GREEN	III	WHITE	III							8.0		MODOC COUNTY LINE
50.68 / Rt	G10(Ca)	48 x 24	X		GREEN	III	WHITE	III				8.3					SISKIYOU COUNTY LINE
SISKIYOU COUNTY (ROUTE 139)																	
0.52 / Lt	G5(Ca)	84 x 42	X		GREEN	III	WHITE	III					24.5				CANBY 51, ALTURAS 68, SUSANVILLE 140
0.66 / Rt	G9(Ca)	48 x 24	X		GREEN	III	WHITE	III							8.0		TULELAKE POP 1000 ELEV 4035
0.98 / Rt	G8(Ca)	90 x 36	X		GREEN	III	WHITE	III					22.5				← EAST-WEST Rd OSBORNE Rd →
1.02 / Rt	G72(Ca)	108 x 36	X		BROWN	III	WHITE	III					27.0				← KLAMATH BASIN NAT'L WILDLIFE REFUGE HQ 6
1.08 / Lt	G72(Ca)	108 x 36	X		BROWN	III	WHITE	III					27.0				KLAMATH BASIN NAT'L WILDLIFE REFUGE HQ 6 →
1.15 / Lt	G8(Ca)	90 x 36	X		GREEN	III	WHITE	III					22.5				← OSBORNE Rd EAST-WEST Rd →
1.31 / Rt	G81(Ca)	72 x 30	X		BLUE	III	WHITE	III				15.0					TOURIST Info NEXT LEFT
1.40 / Rt	G8(Ca)	78 x 36	X		GREEN	III	WHITE	III				19.5					← MAIN St HAVLINA Rd →
1.56 / Lt	G8(Ca)	84 x 36	X		GREEN	III	WHITE	III				21.0					← HAVLINA Rd MAIN St →
1.60 / Lt	G81(Ca)	72 x 30	X		BLUE	III	WHITE	III				15.0					TOURIST Info NEXT RIGHT
2.29 / Rt	G8(Ca)	72 x 36	X		GREEN	III	WHITE	III				18.0					← YOST Rd AKINS Rd →
2.46 / Lt	G8(Ca)	72 x 36	X		GREEN	III	WHITE	III				18.0					← AKINS Rd YOST Rd →
3.05 / Rt	G8(Ca)	42 x 30	X		GREEN	III	WHITE	III						8.8			← GOLDEN Rd
3.22 / Lt	G8(Ca)	42 x 30	X		GREEN	III	WHITE	III						8.8			GOLDEN Rd →
3.23 / Rt	G8(Ca)	84 x 36	X		GREEN	III	WHITE	III					21.0				← BENTLY Rd TSCHIRKY Rd →
3.40 / Lt	G8(Ca)	84 x 36	X		GREEN	III	WHITE	III					21.0				← TSCHIRKY Rd BENTLY Rd →
4.86 / Rt	G22(Ca)	60 x 48	X		GREEN	III	WHITE	III				20.0					DORRIS TURN OFF 1/4 MILE
4.98 / Rt	G1(Ca)	108 x 48	X		GREEN	III	WHITE	III					36.0				↑ KLAMTH FALLS 24, ← DORRIS 23, MALIN 7 →
5.04 / Lt	G1(Ca)	114 x 36	X		GREEN	III	WHITE	III					28.5				← KLAMATH FALLS 24 TULELAKE 4 →
5.045 / Lt	G1(Ca)	78 x 48	X		GREEN	III	WHITE	III				26.0					↑ TULELAKE 4, ← MALIN 7, DORRIS 23 →
5.05 / Rt	G1(Ca)	108 x 18	X		GREEN	III	WHITE	III					13.5				↑ KLAMTH FALLS 24
TOTAL (SQFT)												160.8	268.0	31.6	24.0		

SIGN QUANTITIES

SQ-1

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	20	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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ROADSIDE SIGNS QUANTITIES

PM/LOCATION Lt/Rt	SIGN CODE	PANEL SIZE (in x in)	REMOVE ROADSIDE SIGN	ROADSIDE SIGN (ONE POST)	ROADSIDE SIGN (TWO POST)	POST SIZE AND LENGTH (ft) (N) METAL POST 2.5" x 2.5"	POST SIZE AND LENGTH (ft) (N) WOOD POST 6" x 6"	REMARKS
Mod-139								
44.11 / Lt	G5(Ca)	84 x 42	1					
44.11 / Lt	G5(Ca)	84 x 42			1	10,10		
44.23 / Rt	G9(Ca)	48 x 24	1					
44.23 / Rt	G9(Ca)	42 x 24		1		9		
45.25 / Lt	G9(Ca)	48 x 24	1					
45.25 / Lt	G9(Ca)	42 x 24		1		9		
47.88 / Lt	G1(Ca)	66 x 18	1					
47.88 / Lt	G1(Ca)	66 x 18			1	8,8		
50.68 / Lt	G10(Ca)	48 x 24	1					
50.68 / Lt	G10(Ca)	48 x 24		1		9		
50.68 / Rt	G10(Ca)	48 x 24	1					
50.68 / Rt	G10(Ca)	48 x 24		1		9		
Sis-139								
0.52 / Lt	G5(Ca)	84 x 42	1					
0.52 / Lt	G5(Ca)	84 x 42			1	10,10		
0.66 / Rt	G9(Ca)	54 x 24	1					
0.66 / Rt	G9(Ca)	48 x 24		1		9		
0.98 / Rt	G8(Ca)	90 x 30	1					
	D9-7	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G33-1(Ca)	24 x 6						SALVAGE PANEL FOR REUSE ON NEW POSTS
	D9-8	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	RM-160	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
0.98 / Rt	G8(Ca)	90 x 36			1	10,10		
	D9-7	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	G33-1(Ca)	24 x 6						PLACE SALVAGED PANEL ON NEW POSTS
	D9-8	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	RM-160	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
1.02 / Rt	G72(Ca)	90 x 18	1					
1.02 / Rt	G72(Ca)	108 x 36			1		11,11	
1.08 / Rt	G72(Ca)	90 x 18	1					
1.08 / Rt	G72(Ca)	108 x 36			1		11,11	
1.15 / Lt	G8(Ca)	90 x 30	1					
	RM-020	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G33-1(Ca)	24 x 6						SALVAGE PANEL FOR REUSE ON NEW POSTS
1.15 / Lt	G8(Ca)	90 x 36			1	10,10		
	RM-020	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	G33-1(Ca)	24 x 6						PLACE SALVAGED PANEL ON NEW POSTS
1.31 / Rt	G81(Ca)	72 x 30	1					
1.31 / Rt	G81(Ca)	72 x 30			1	10,10		
1.40 / Rt	G8(Ca)	78 x 36	1					
	G8(Ca)	48 x 30						SALVAGE PANEL FOR REUSE ON NEW POSTS
1.40 / Rt	G8(Ca)	78 x 36			1		9,9	
	G8(Ca)	48 x 30						PLACE SALVAGED PANEL ON NEW POSTS
1.56 / Lt	G8(Ca)	78 x 36	1					
	G8(Ca)	48 x 30						SALVAGE PANEL FOR REUSE ON NEW POSTS
1.56 / Lt	G8(Ca)	84 x36			1		9,9	
	G8(Ca)	48 x 30						PLACE SALVAGED PANEL ON NEW POSTS
1.60 / Lt	G81(Ca)	72 x 30	1					
	D9-8	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	D9-7	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	RM-160	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
1.60 / Lt	G81(Ca)	72 x 30			1	9,9		
	D9-8	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	D9-7	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	RM-160	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
SUBTOTAL (THIS SHEET)			16	5	11			

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SIGN QUANTITIES

SQ-2

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

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	21	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

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ROADSIDE SIGNS QUANTITIES

PM/LOCATION Lt/Rt	SIGN CODE	PANEL SIZE (in x in)	REMOVE ROADSIDE SIGN	ROADSIDE SIGN (ONE POST)	ROADSIDE SIGN (TWO POST)	POST SIZE AND LENGTH (ft) (N) METAL POST 2.5" x 2.5"	POST SIZE AND LENGTH (ft) (N) WOOD POST 6" x 6"	REMARKS
Sis-139								
2.29 / Rt	G8(Ca)	72 x 36	1					
2.29 / Rt	G8(Ca)	72 x 36			1	11,12		
2.46 / Lt	G8(Ca)	72 x 36	1					
2.46 / Lt	G8(Ca)	72 x 36			1	12,11		
3.05 / Rt	G8(Ca)	42 x 30	1					
3.05 / Rt	G8(Ca)	42 x 30		1		9		
3.22 / Lt	G8(Ca)	42 x 30	1					
3.22 / Lt	G8(Ca)	42 x 30		1		9		
3.23 / Rt	G8(Ca)	84 x 30	1					
3.23 / Rt	G8(Ca)	84 x 36			1	11,12		
3.40 / Lt	G8(Ca)	84 x 30	1					
3.40 / Lt	G8(Ca)	84 x 36			1	12,11		
4.86 / Rt	G22(Ca)	60 x 48	1					
	G56(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G28-2(161)(Ca)	28 x 25						SALVAGE PANEL FOR REUSE ON NEW POSTS
4.86 / Rt	G22(Ca)	60 x 48			1		13,14	
	G56(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
	G28-2(161)(Ca)	28 x 25						PLACE SALVAGED PANEL ON NEW POSTS
4.98 / Rt	G1(Ca)	108 x 48	1					
	G66-56(Ca)	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G37(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G28-2(161)(Ca)	28 x 25						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G34(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
4.98 / Rt	G1(Ca)	108 x 48			1		13,14	
	G66-56(Ca)	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	G37(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
	G28-2(161)(Ca)	28 x 25						PLACE SALVAGED PANEL ON NEW POSTS
	G34(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
5.04 / Lt	G1(Ca)	108 x 36	1					
	G66-56(Ca)	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G34(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G28-2(161)(Ca)	28 x 25						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G34(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
5.04 / Lt	G1(Ca)	114 x 36			1		14,13	
	G66-56(Ca)	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	G34(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
	G28-2(161)(Ca)	28 x 25						PLACE SALVAGED PANEL ON NEW POSTS
	G34(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
5.045 / Lt	G1(Ca)	78 x 48	1					
	G28-2(161)(Ca)	28 x 25						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G34(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G66-56(Ca)	24 x 24						SALVAGE PANEL FOR REUSE ON NEW POSTS
	G37(Ca)	21 x 15						SALVAGE PANEL FOR REUSE ON NEW POSTS
5.045 / Lt	G1(Ca)	78 x 48			1		14,13	
	G28-2(161)(Ca)	28 x 25						PLACE SALVAGED PANEL ON NEW POSTS
	G34(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
	G66-56(Ca)	24 x 24						PLACE SALVAGED PANEL ON NEW POSTS
	G37(Ca)	21 x 15						PLACE SALVAGED PANEL ON NEW POSTS
5.05 / Rt	G1(Ca)	108 x 18	1					
5.05 / Rt	G1(Ca)	108 x 18			1	10,11		
SUBTOTAL (THIS SHEET)			11	2	9			
TOTAL			27	7	20			

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

SIGN QUANTITIES

SQ-3

REVISED BY | DATE REVISED

MICHAEL CONNER | KARLIE SMITH

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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02	Mod,Sis	139	34.0/50.7, 0.0/5.1	22	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
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NOTE:

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ROADWAY QUANTITIES SUMMARY

Co-Rte	POST MILE LIMITS	WIDTH (N)	LENGTH (N)	COLD FOAM IN-PLACE RECYCLING	STABILIZING AGENT (FOAMED ASPHALT)	HMA	STABILIZING AGENT (CEMENTITIOUS MATERIAL)	ASPHALTIC EMULSION	IMPORTED MATERIAL (SHOULDER BACKING)	TACK COAT	ROADWAY EXCAVATION	CLASS 2 AB	SUBGRADE ENHANCEMENT GEOTEXTILE
	PM-PM	LF	LF	SQYD	TON	TON	TON	TON	TON	TON	CY	CY	SQYD
Mod-139	34.00-35.00	40-32	5280.0										
	35.00-35.08	32-33	422.4										
	35.08-40.50	33	28,617.6										
	40.50-40.57	33-45	369.6										
	40.57-40.65	45-36	422.4										
	40.65-40.80	36-33	792.0										
	40.80-41.85	33	5544.0										
	41.85-42.45	33-36	3168.0										
	42.45-42.54	36-44	475.2										
	42.54-42.70	44-33	844.8										
	42.70-42.77	33-38	369.6										
	42.77-42.85	38-42	422.4										
	42.85-43.00	42-33	792.0										
	43.00-44.00	33-32	5280.0										
	44.00-44.17	32-38	897.6										
	44.17-44.46	38-46	1531.2	340,745	6900	92,001	4140	270	9582	100			
	44.46-44.82	46	1900.8										
	44.82-45.00	46-33	950.4										
	45.00-45.16	33-45	844.8										
	45.16-45.34	45-32	950.4										
	45.34-46.00	32-33	3484.8										
	46.00-46.54	33-46	2851.2										
	46.54-46.65	46-33	580.8										
	46.65-47.62	33	5121.6										
	47.62-47.70	33-54	422.4										
	47.70-47.82	54-55	633.6										
	47.82-47.90	55-33	422.4										
	47.90-50.15	33	11,880.0										
	50.15-50.50	33-44	1848.0										
	50.50-50.68	44	950.4										
Sis-139	0.00-0.87	42	4593.6										
	0.87-1.08	42-53	1108.8										
	1.08-1.45	53-60	1953.6										
	1.45-1.70	60-42	1320.0										
	1.70-2.36	42-56	3484.8										
	2.36-2.58	56-41	1161.6			19,051			2982	42			
	2.58-3.14	41	2956.8										
	3.14-4.00	41-43	4540.8										
	4.00-4.80	43-48	4224.0										
	4.80-4.89	48-60	475.2										
	4.89-5.04	60-64	792.0										
	5.04-END	64-38	800.0										
TRUCK SCALE (MODOC PM 39.36-39.73)*						553			144	2			
SOFT SPOT LOCATIONS*						1592			345	4	7862	7862	11,792
50 ROAD CONNECTIONS						18015				25			
92 DRIVEWAYS						2480				4			
TOTAL				340,745	6900	133,692	4140	270	13,053	177	7862	7862	11,792

*PLACED USING STANDARD PROCESS

REMOVE SURVEY MONUMENT

Co-Rte	POSTMILE	SIDE	QUANTITY
		Lt/Rt	EA
Mod-139	39.09	Lt	1
	39.65	Lt	1
	40.23	Lt	1
	40.41	Lt	1
	40.99	Lt	1
	41.18	Lt	1
	41.34	Lt	1
	41.55	Lt	1
	41.74	Lt	1
	41.93	Lt	1
	42.12	Lt	1
	42.31	Lt	1
	42.69	Lt	1
	42.88	Lt	1
	43.07	Lt	1
	43.26	Lt	1
	43.45	Lt	1
	43.63	Lt	1
	43.81	Lt	1
	44.02	Lt	1
	44.20	Lt	1
	44.58	Lt	1
	44.76	Lt	1
	44.95	Lt	1
	45.52	Lt	1
	45.72	Lt	1
	45.91	Lt	1
	46.10	Lt	1
	46.29	Lt	1
	46.48	Lt	1
	46.66	Lt	1
	46.84	Lt	1
	47.06	Lt	1
	47.24	Lt	1
	47.44	Lt	1
	47.62	Lt	1
	48.00	Lt	1
	48.18	Lt	1
	48.37	Lt	1
	48.56	Lt	1
	48.76	Lt	1
	48.94	Lt	1
	49.11	Lt	1
	49.32	Lt	1
	49.50	Lt	1
	49.68	Lt	1
	49.87	Lt	1
	50.23	Lt	1
	50.41	Lt	1
TOTAL			49

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED

MICHAEL CONNER | KARLIE SMITH

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	23	34

REGISTERED CIVIL ENGINEER 06-24-10 DATE

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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NOTE:

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

ABBREVIATIONS:

Dir DIRECTION

COLD PLANE ASPHALT CONCRETE PAVEMENT

Co-Rte	POST MILE	WIDTH (N)	LENGTH (N)	COLD PLANE AC PAVEMENT	COMMENTS
	PM	LF	LF	SQYD	
Mod-139	34.00	160	40	711	CONFORM TAPER AT BEGINNING OF PROJECT
	35.07	6	21	14	SB ROAD CONNECTION CONFORM
	38.11	6	60	40	NB ROAD CONNECTION CONFORM
	38.11	6	22	15	SB ROAD CONNECTION CONFORM
	40.54	6	27	18	NB ROAD CONNECTION CONFORM
	41.36	6	25	17	SB ROAD CONNECTION CONFORM
	41.90	6	27	18	SB ROAD CONNECTION CONFORM
	41.95	6	25	17	NB ROAD CONNECTION CONFORM
	42.54	6	38	25	NB ROAD CONNECTION CONFORM
	42.54	6	23	15	SB ROAD CONNECTION CONFORM
	42.85	6	24	16	SB ROAD CONNECTION CONFORM
	44.17	6	38	25	NB ROAD CONNECTION CONFORM
	44.17	6	35	23	SB ROAD CONNECTION CONFORM
	44.27	160	46	818	CONFORM TAPER AT RAILROAD CROSSING
	44.32	160	46	818	CONFORM TAPER AT RAILROAD CROSSING
	44.46	6	23	15	NB ROAD CONNECTION CONFORM
	44.52	6	31	21	NB ROAD CONNECTION CONFORM
	44.59	6	23	15	NB ROAD CONNECTION CONFORM
	44.59	6	28	19	SB ROAD CONNECTION CONFORM
	44.66	6	23	15	NB ROAD CONNECTION CONFORM
	44.82	6	22	15	NB ROAD CONNECTION CONFORM
	45.16	6	28	19	NB ROAD CONNECTION CONFORM
	45.16	6	40	27	SB ROAD CONNECTION CONFORM
	45.69	6	23	15	NB ROAD CONNECTION CONFORM
	45.76	6	45	30	SB ROAD CONNECTION CONFORM
	46.44	6	335	223	NB CONFORM IN FRONT OF BUSINESS
	46.48	6	27	18	NB ROAD CONNECTION CONFORM
	46.48	6	19	13	SB ROAD CONNECTION CONFORM
	47.26	6	20	13	NB ROAD CONNECTION CONFORM
	47.26	6	37	25	SB ROAD CONNECTION CONFORM
	47.70	160	55	978	CONFORM TAPER AT RAILROAD CROSSING
	47.71	6	40	27	SB ROAD CONNECTION CONFORM
	47.75	160	55	978	CONFORM TAPER AT RAILROAD CROSSING
	47.76	6	21	14	NB ROAD CONNECTION CONFORM
	47.76	6	38	25	SB ROAD CONNECTION CONFORM
	48.26	6	30	20	SB ROAD CONNECTION CONFORM ALONG RAILROAD
	48.86	6	25	17	NB ROAD CONNECTION CONFORM
	49.12	6	23	15	NB ROAD CONNECTION CONFORM
	49.26	6	30	20	SB ROAD CONNECTION CONFORM ALONG RAILROAD
	50.15	6	22	15	NB ROAD CONNECTION CONFORM
	50.52	6	17	11	NB ROAD CONNECTION CONFORM
	50.52	6	35	23	SB ROAD CONNECTION CONFORM
Sis-139	0.10	6	27	18	NB ROAD CONNECTION CONFORM
	0.76	6	52	35	SB ROAD CONNECTION CONFORM
	1.04	6	45	30	NB ROAD CONNECTION CONFORM
	1.04	6	23	15	SB ROAD CONNECTION CONFORM
	1.44	6	227	151	SB CONFORM IN FRONT OF BUSINESS
	1.45	6	20	13	NB ROAD CONNECTION CONFORM
	1.45	6	60	40	SB ROAD CONNECTION CONFORM
	1.46	6	413	275	SB CONFORM IN FRONT OF BUSINESS
	2.36	6	34	23	NB ROAD CONNECTION CONFORM
	2.36	6	36	24	SB ROAD CONNECTION CONFORM
	3.14	6	31	21	SB ROAD CONNECTION CONFORM
	3.32	6	24	16	NB ROAD CONNECTION CONFORM
	3.32	6	24	16	SB ROAD CONNECTION CONFORM
	3.94	6	30	20	NB ROAD CONNECTION CONFORM
	4.31	6	30	20	SB ROAD CONNECTION CONFORM ALONG RAILROAD
	4.92	80	64	569	CONFORM TAPER AT RAILROAD CROSSING
	4.96	80	64	569	CONFORM TAPER AT RAILROAD CROSSING
	5.04	6	27	18	NB ROAD CONNECTION CONFORM
	5.04	6	50	33	ROUTE 161 Jct CONFORM
	5.04	80	38	338	CONFORM TAPER AT END OF PROJECT
TOTAL				7460	

REPLACE ASPHALT CONCRETE SURFACING

Co-Rte	POST MILE LIMITS	APPROXIMATE NUMBER OF DIGOUTS (N)	AVERAGE LENGTH (N)	WIDTH (N)	DEPTH (N)	REPLACE ASPHALT CONCRETE SURFACING
	PM - PM		LF	LF	LF	CY
Mod-139	40.02	1	10	33	0.33	4
	40.17	1	10	33	0.33	4
	41.05	1	30	33	0.33	12
	44.14	1	20	33	0.33	8
	44.30-44.31	1	50	46	0.33	28
	44.31-44.32	1	50	46	0.33	28
	47.73-47.74	1	50	55	0.33	34
	47.74-47.75	1	50	55	0.33	34
	48.75	1	20	33	0.33	8
Sis-139	0.00-1.00	55	100	4	0.33	269
	1.00-2.00	55	100	4	0.33	269
	2.00-3.00	55	100	4	0.33	269
	3.00-4.00	55	100	4	0.33	269
	4.00-5.04	55	100	4	0.33	269
	4.94-4.95	1	50	64	0.33	39
	4.95-4.96	1	50	64	0.33	39
	5.04	1	50	33-50	0.33	25
TOTAL						1608

ALTERNATIVE CRASH CUSHION SYSTEM

Co-Rte	POST MILE LIMITS	Dir	QUANTITY	REMARKS
			EA	
Sis-139	4.96	NB	1	ON NB SIDE AT RAILROAD CROSSING
TOTAL			1	

SOFT SPOT LOCATIONS

Co-Rte	POST MILE LIMITS	WIDTH (N)	LENGTH (N)	HMA	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)	ROADWAY EXCAVATION	CLASS 2 AB	SUBGRADE ENHANCEMENT GEOTEXTILE
	PM - PM	LF	LF	TON	TON	TON	CY	CY	SQYD
Mod-139	35.85-35.95	33.0	528	*1592	*4	*345	*7862	*7862	*11,792
	42.35-42.45	36.0	528						
	43.65-43.75	33.0	528						
	47.95-48.05	33.0	528						
	48.75-48.95	33.0	1056						

*TOTAL ON QUANTITY SUMMARY TABLE ON SHEET Q-1

METAL BEAM GUARD RAILING

Co-Rte	POST MILE LIMITS	Dir	MBGR	RECONSTRUCT MBGR	ALTERNATIVE FLARED TERMINAL SYSTEM	W12 X 79 TERMINAL ANCHOR POST	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)
			LF	LF	EA	EA	EA
Mod-139	47.72	NB		75	1		
	47.74	SB		50			1
Sis-139	4.96	SB	75		1	1	
	5.04	SB		160	1		
TOTAL			75	285	3	1	1

SUMMARY OF QUANTITIES

Q-2

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

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LAST REVISION 06-24-10 | DATE PLOTTED => 04-AUG-2010 | TIME PLOTTED => 06:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	24	34

ART 06-24-10
REGISTERED ELECTRICAL ENGINEER

7-6-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER A.P. ROBLES No. E15293 Exp. 3/31/11 ELECTRICAL STATE OF CALIFORNIA

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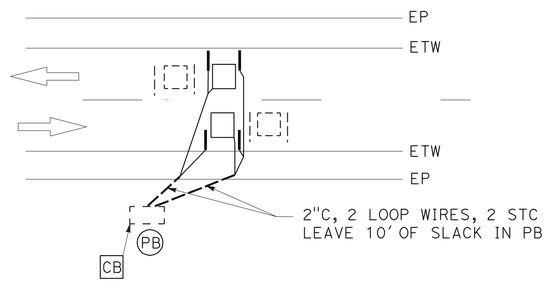
NOTES: (THIS SHEET)

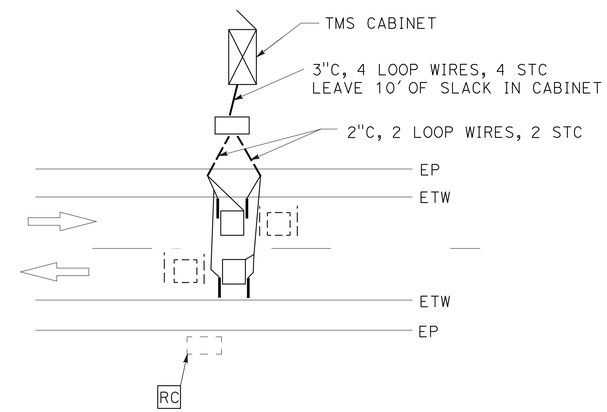
1. ABANDON EXISTING LOOP DETECTORS AND AXLE SENSORS.
2. EXACT LOCATION OF LOOP DETECTORS AND PIEZO-ELECTRIC AXLE SENSOR WILL BE DETERMINED BY THE ENGINEER.
3. INSTALL PIEZO-ELECTRIC AXLE SENSORS PER MANUFACTURER'S INSTRUCTIONS.
4. OBJECT MARKER (TYPE PB) SHALL COMPLY WITH TYPE L-2 OBJECT MARKER WITH A SNOW POLE BRACKET. SEE Std PLANS A73A AND A73B FOR DETAILS NOT SHOWN.
5. PLACE OBJECT MARKER (TYPE PB) 2" OUTSIDE PULL BOX PAVING ON SIDE AWAY FROM TRAFFIC. SEE PULL BOX PAVING DETAIL.

LEGEND:

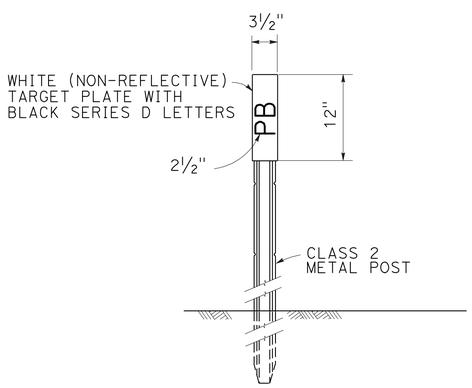
--	EXISTING AXLE SENSOR
—	PIEZO-ELECTRIC AXLE SENSOR
STC	SCREENED TRANSMISSION CABLE
(PB)	OBJECT MARKER (TYPE PB)
⇨	DIRECTION OF TRAVEL



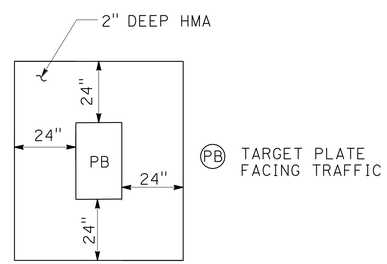
TMS No. 230
Rte 139, PM 50.684, MODOC



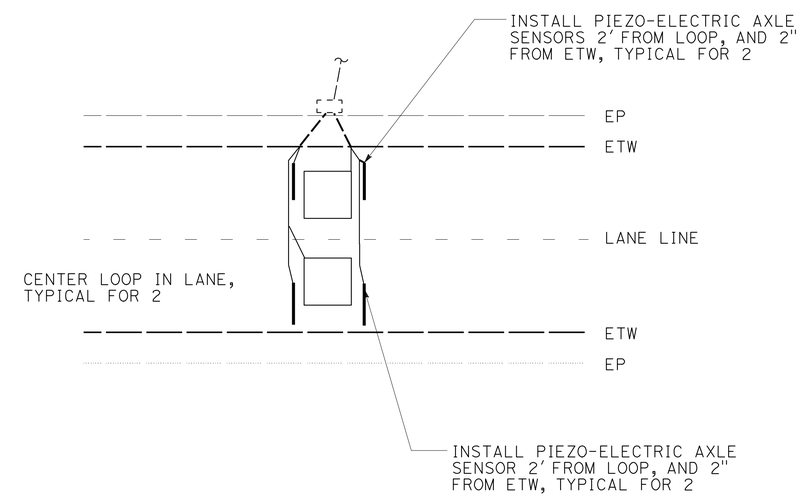
TMS No. 145
Rte 139, PM 5.043, SISKIYOU



OBJECT MARKER (TYPE PB)



PULL BOX PAVING



PIEZO-ELECTRIC AXLE SENSOR INSTALLATION

TRAFFIC MONITORING STATION

NO SCALE

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

REVISED BY	DATE REVISED
ARTURO P. ROBLES	KAREN CARMO
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ROB STINGER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

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LAST REVISION 06-24-10 | DATE PLOTTED => 09-AUG-2010 | TIME PLOTTED => 10:17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	25	34

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald E. Howe
No. C46402
Exp. 3-31-09
CIVIL
STATE OF CALIFORNIA

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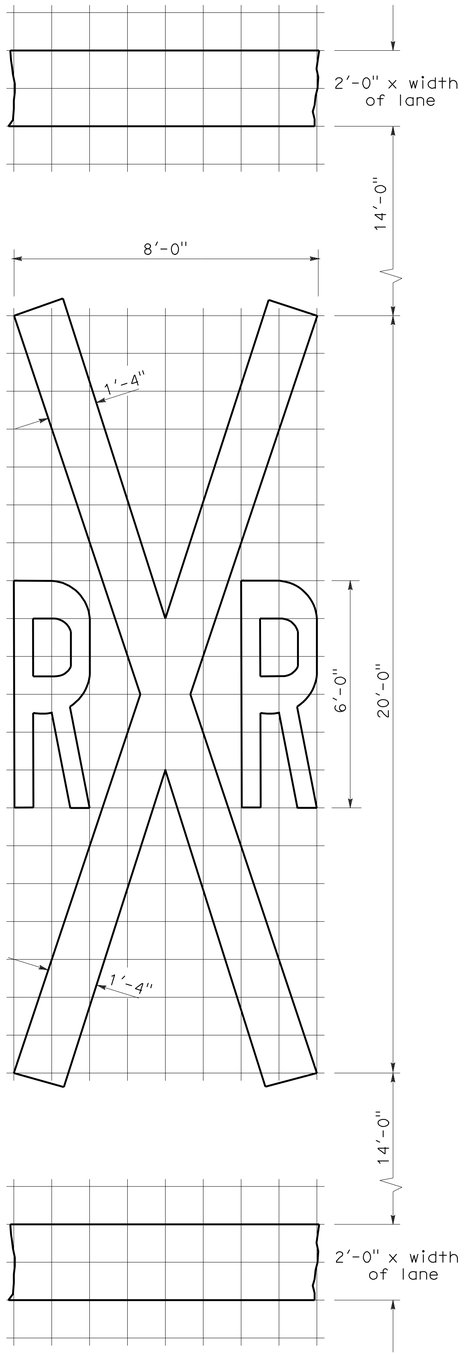
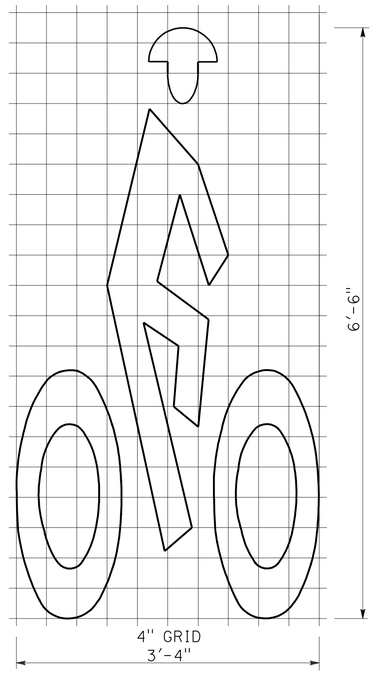
To accompany plans dated 7-6-10



1'-0" GRID
A=70 sq ft ✳

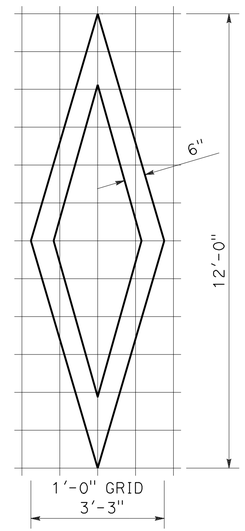
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



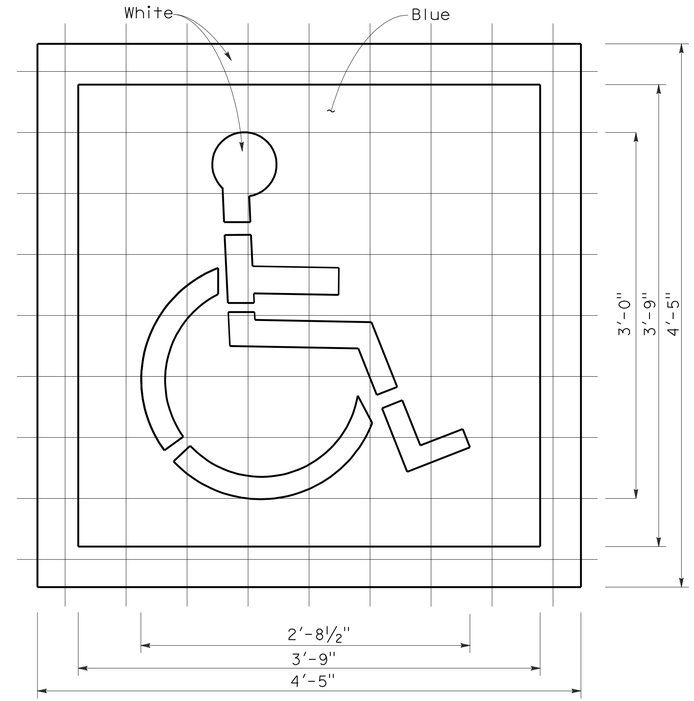
A=7 sq ft

BIKE LANE SYMBOL



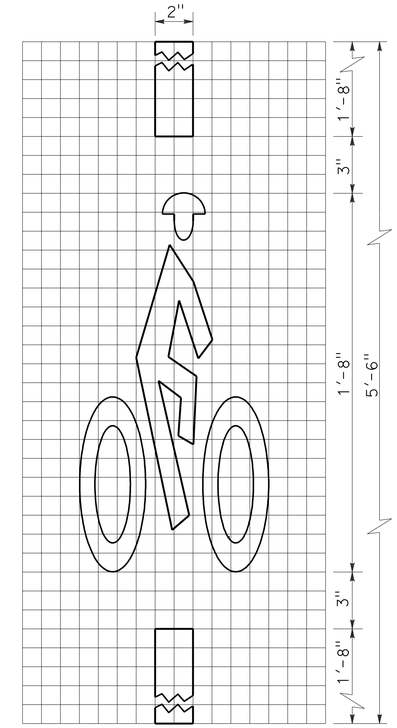
A=11 sq ft

DIAMOND SYMBOL



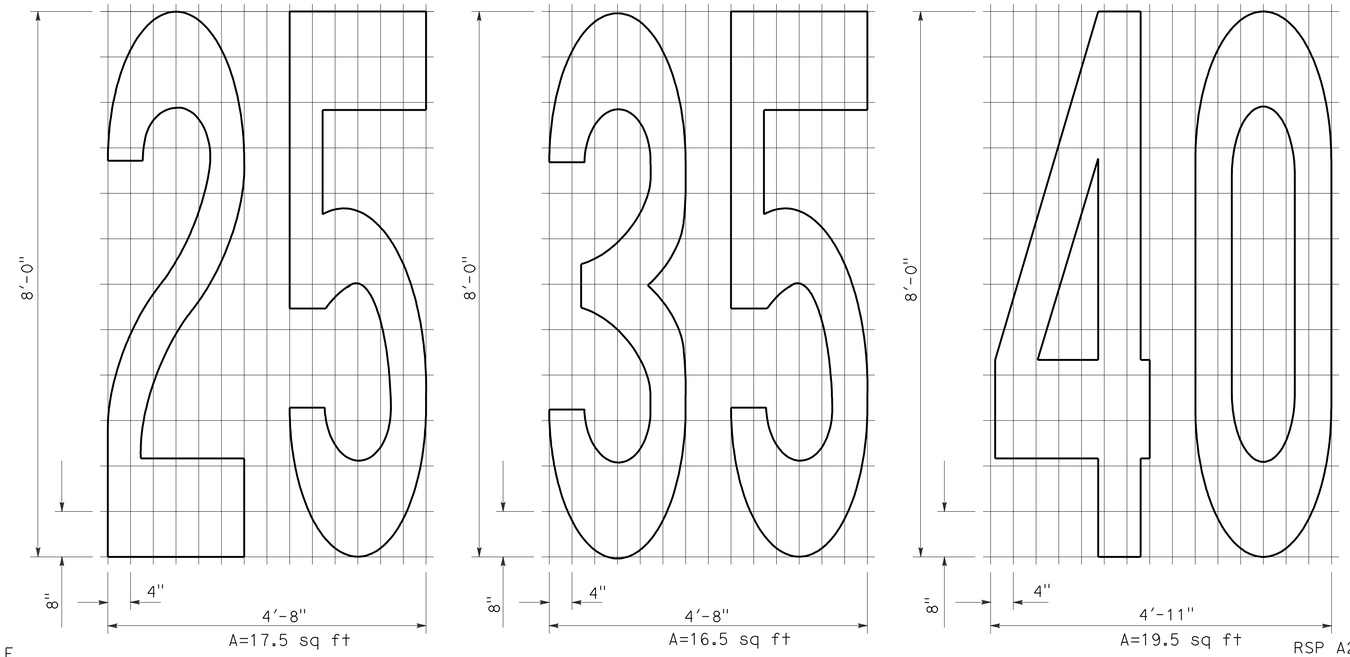
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



1" GRID
10"
A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL



A=17.5 sq ft
A=16.5 sq ft
A=19.5 sq ft

NUMERALS

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	26	34

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 20, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

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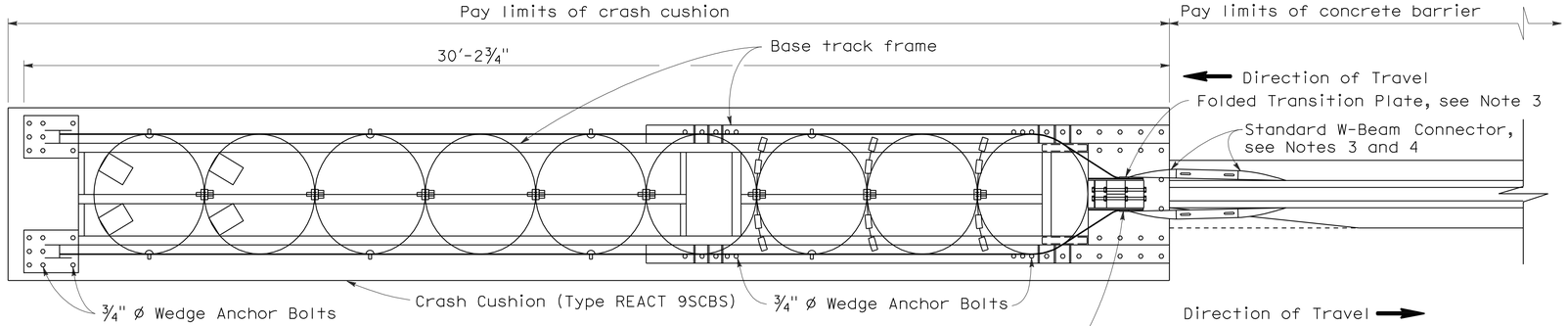
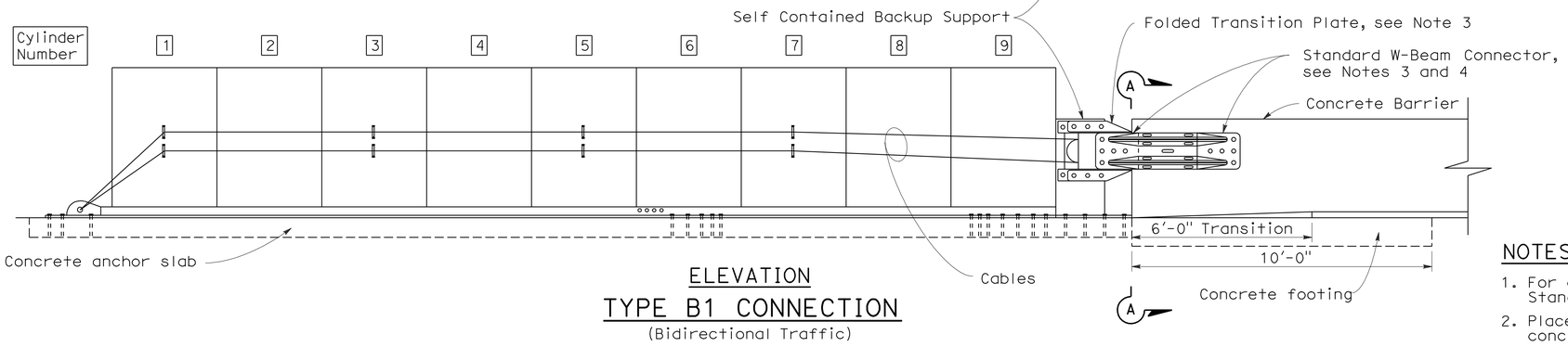
To accompany plans dated 7-6-10



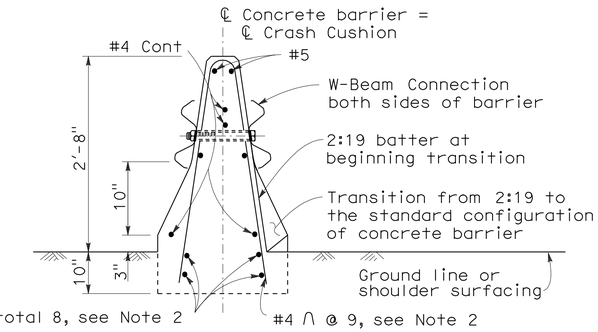
PLAN VIEW



ELEVATION

TYPE B1 CONNECTION

(Bidirectional Traffic)

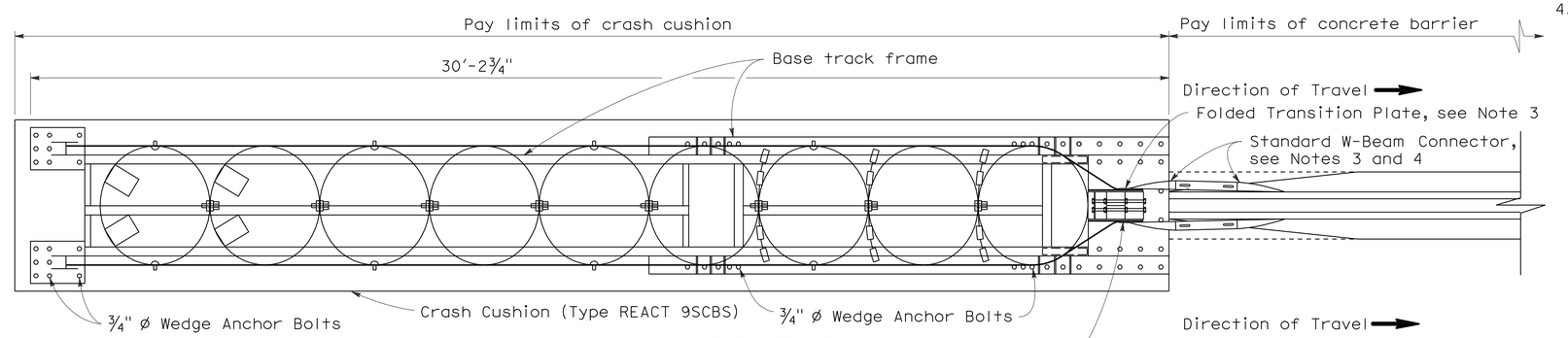


SECTION A-A

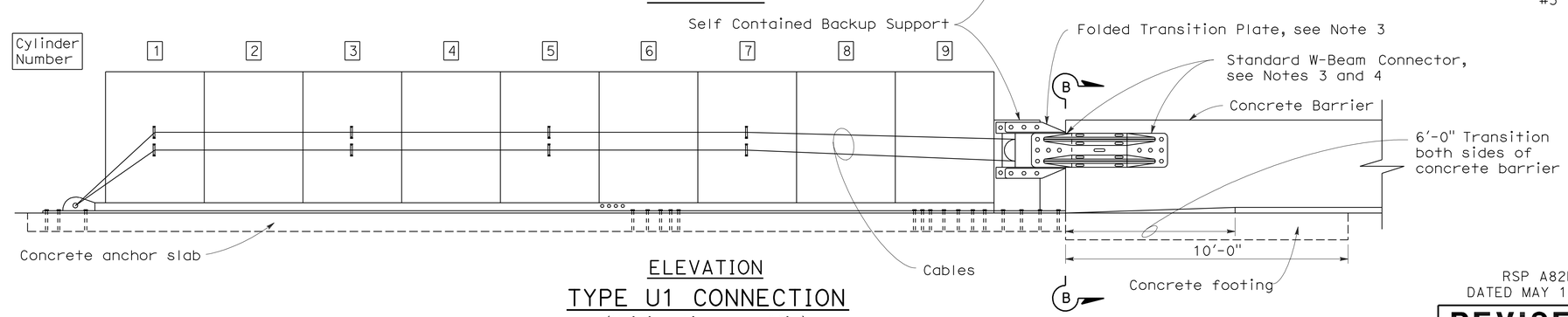
(Type 50 Barrier shown)

NOTES:

1. For additional details of Crash Cushion (Type REACT 9SCBS), see Standard Plan A82D1.
2. Place this reinforcement for the full 10'-0" length of the terminus of the concrete barrier.
3. Attach manufacturer supplied folded transition plates and W-Beam connectors to backup support with manufacturer supplied bolts.
4. Attach W-Beam Connectors to barrier with manufacturer supplied anchor bolts in the manner recommended by the manufacturer.



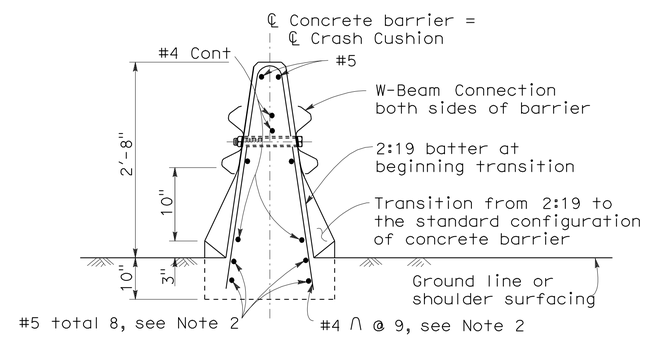
PLAN VIEW



ELEVATION

TYPE U1 CONNECTION

(Unidirectional Traffic)



SECTION B-B

(Type 50 Barrier shown)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CRASH CUSHION (TYPE REACT 9SCBS) CONNECTION TO CONCRETE BARRIER

NO SCALE

RSP A82D2 DATED OCTOBER 20, 2006 SUPERSEDES STANDARD PLAN A82D2 DATED MAY 1, 2006 - PAGE 108 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A82D2

2006 REVISED STANDARD PLAN RSP A82D2

9-13-06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	27	34

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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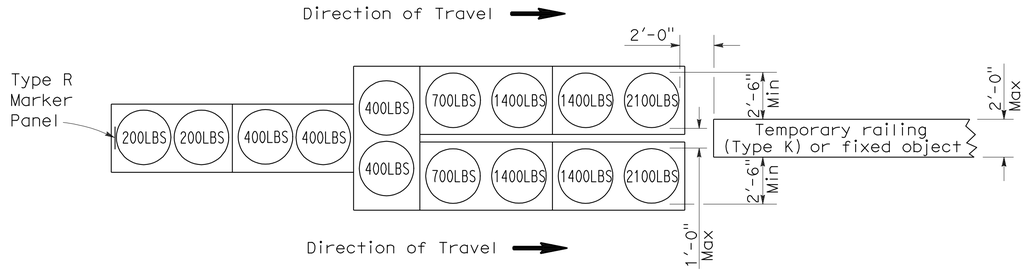
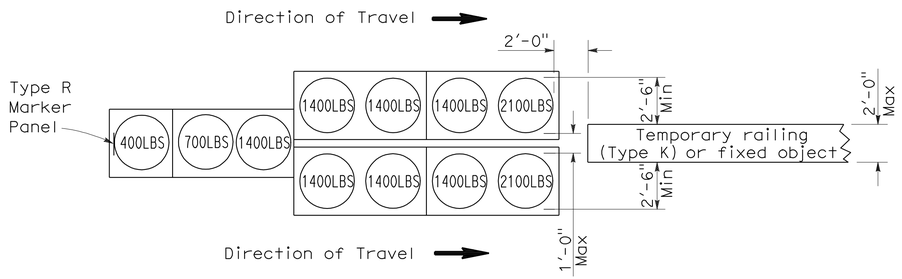
To accompany plans dated 7-6-10



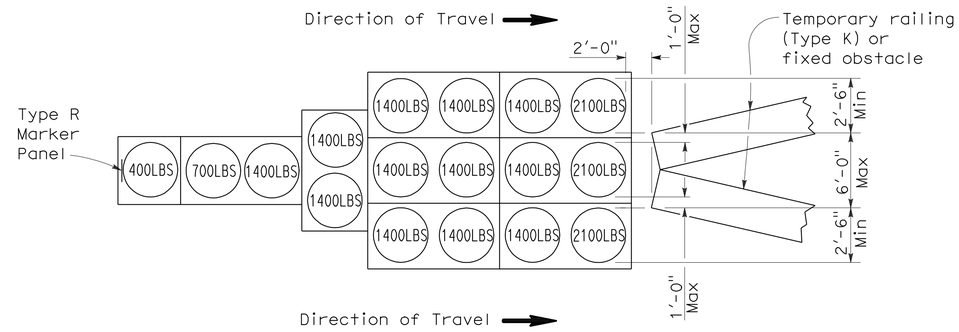
ARRAY 'TU14'

Approach speed 45 mph or more



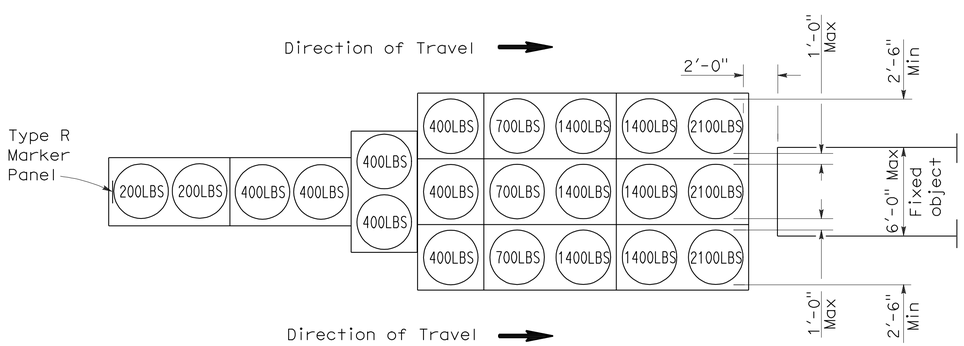
ARRAY 'TU11'

Approach speed less than 45 mph



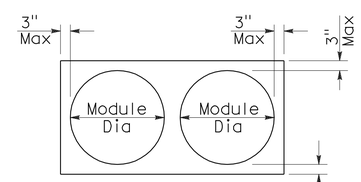
ARRAY 'TU17'

Approach speed less than 45 mph

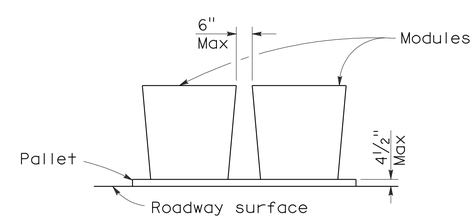


ARRAY 'TU21'

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
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	28	34

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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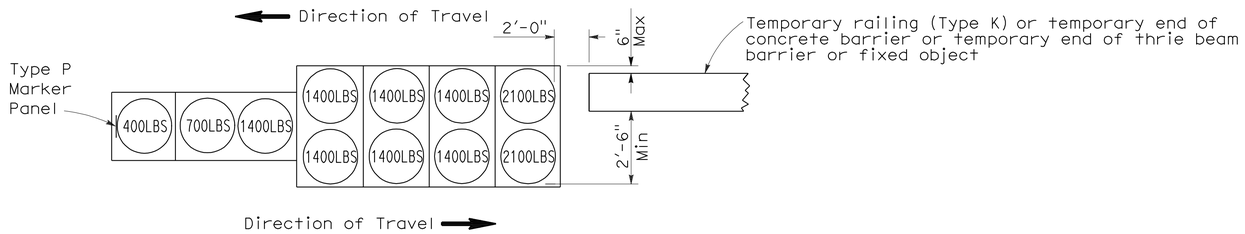
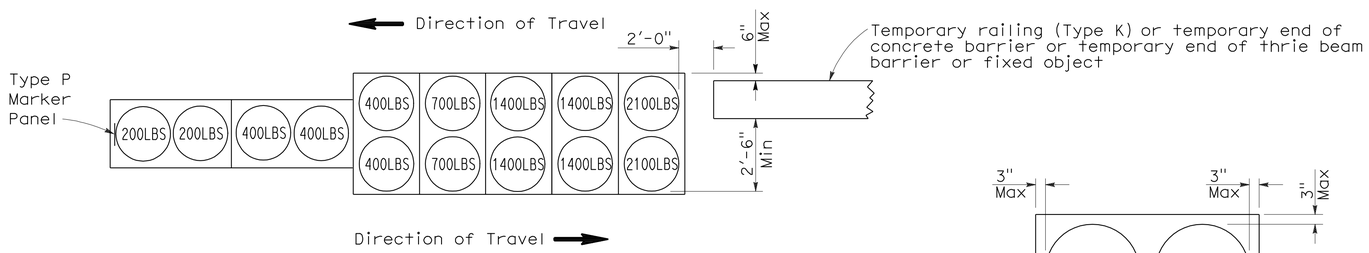
To accompany plans dated 7-6-10

2006 REVISED STANDARD PLAN RSP T1B



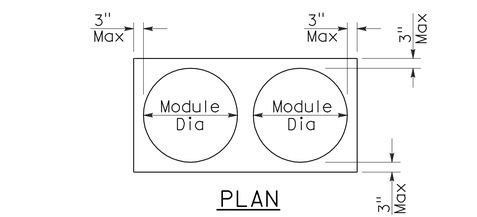
ARRAY 'TB11'

Approach speed less than 45 mph

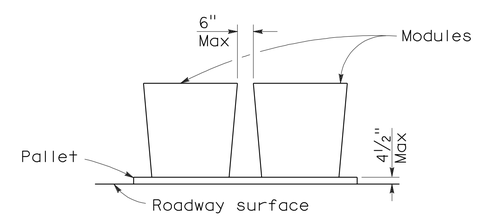


ARRAY 'TB14'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	29	34

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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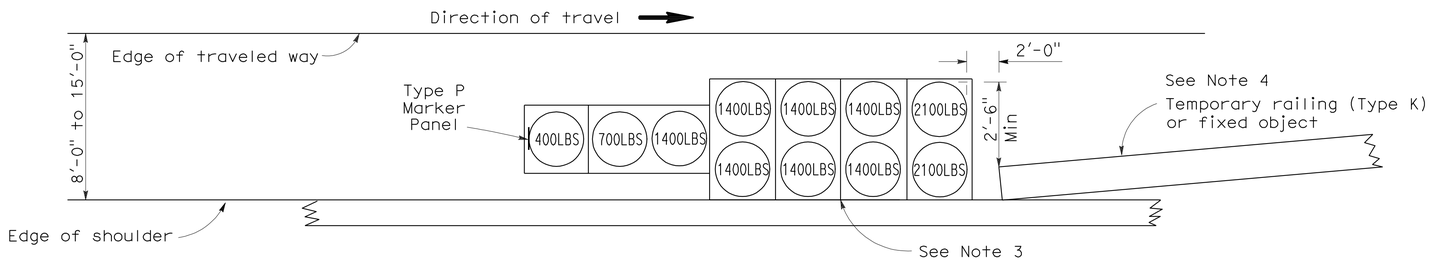
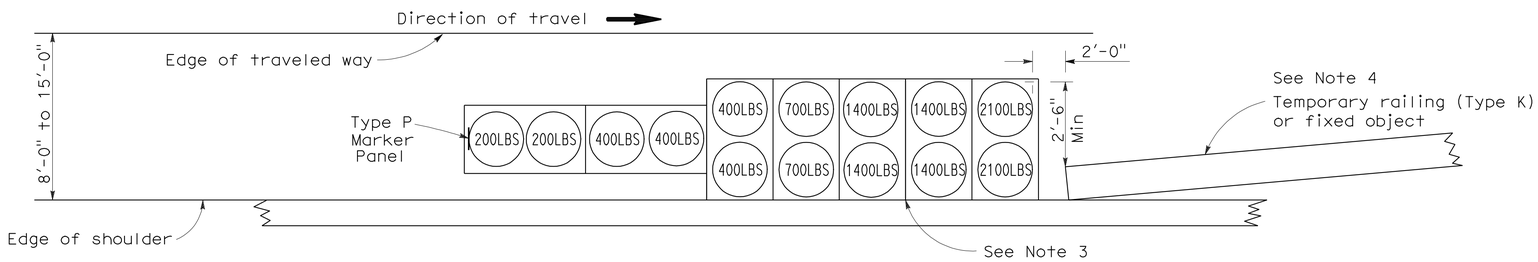
To accompany plans dated 7-6-10



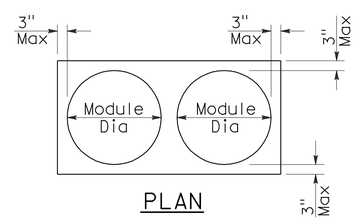
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

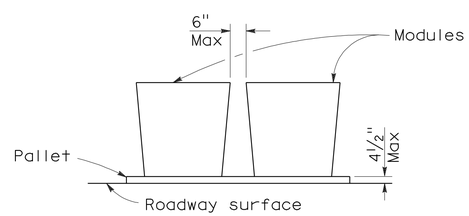


ARRAY 'TS14'

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
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	30	34

Greg W. Edwards
REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Greg W. Edwards
No. C36386
Exp. 6-30-08
CIVIL
STATE OF CALIFORNIA

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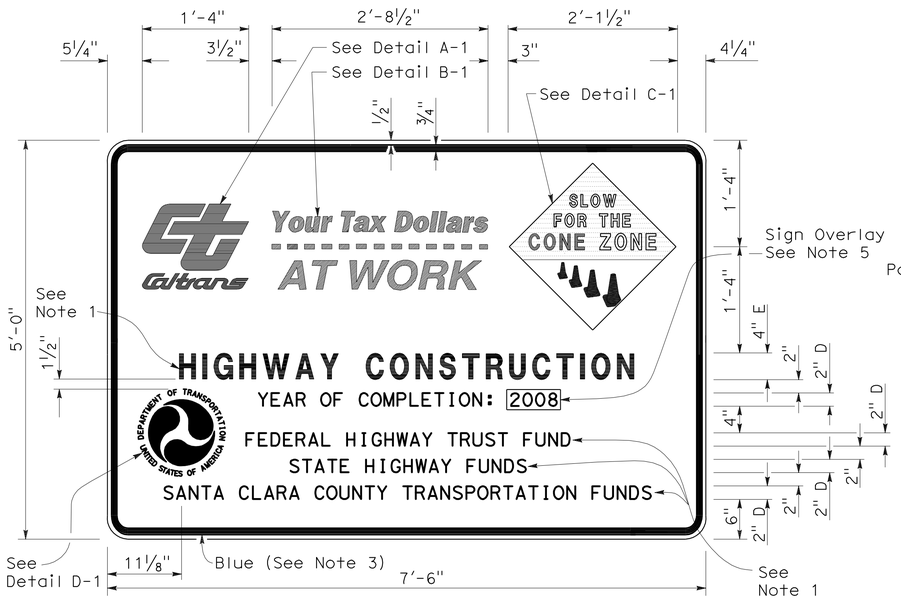
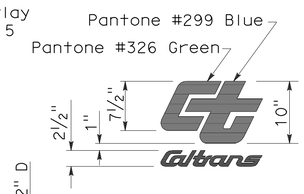
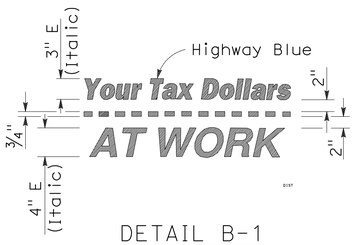
To accompany plans dated 7-6-10



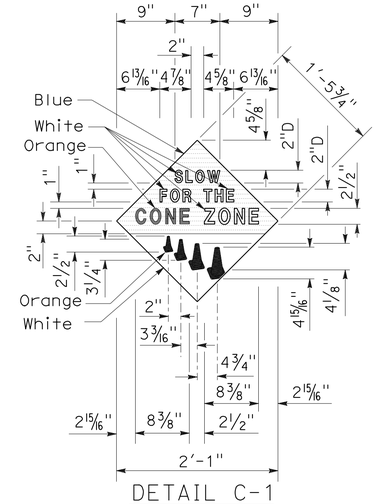
TYPE 1



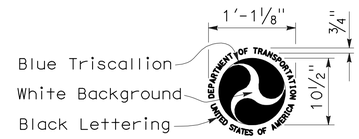
DETAIL A-1



DETAIL B-1
(See Note 3)



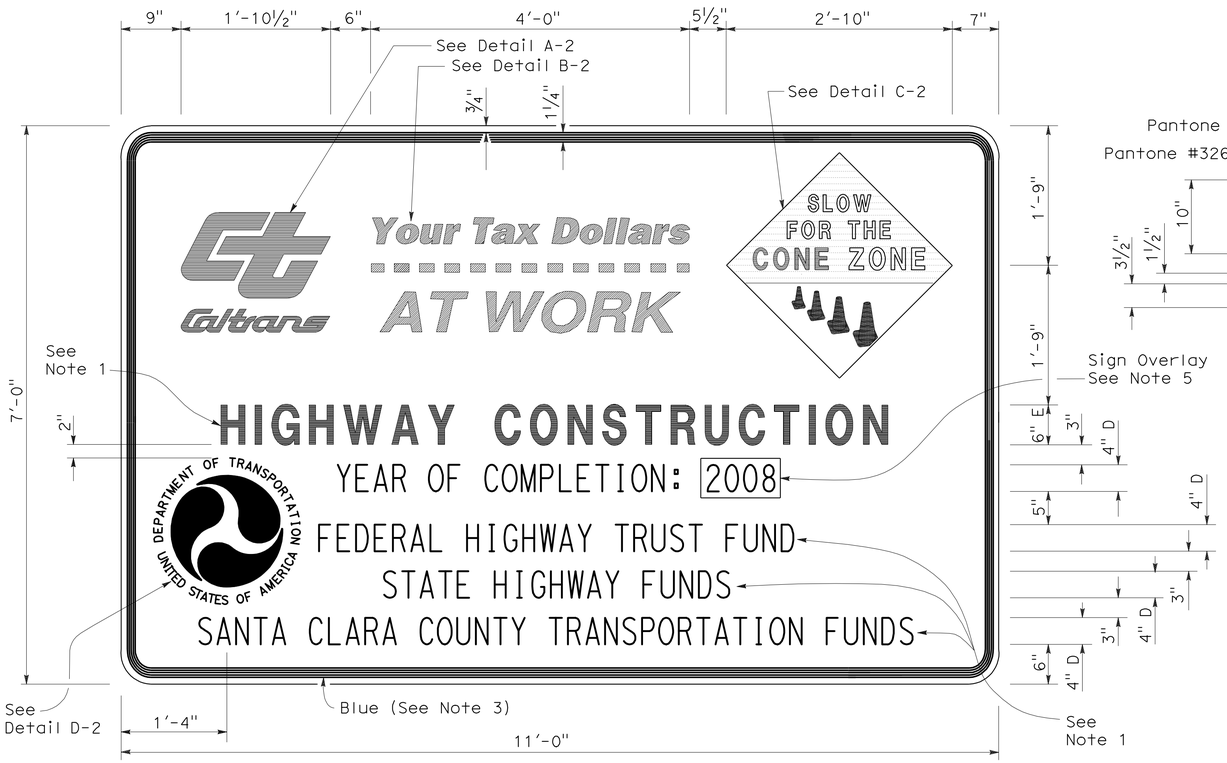
DETAIL C-1
(See Note 4)



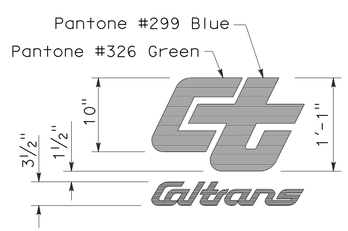
DETAIL D-1
(See Note 6)

NOTES:

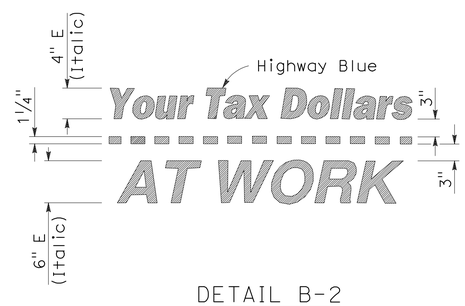
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, " SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



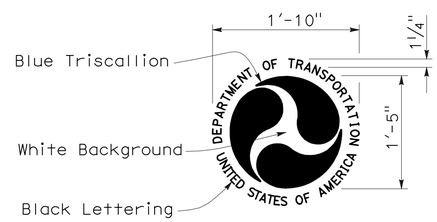
TYPE 2



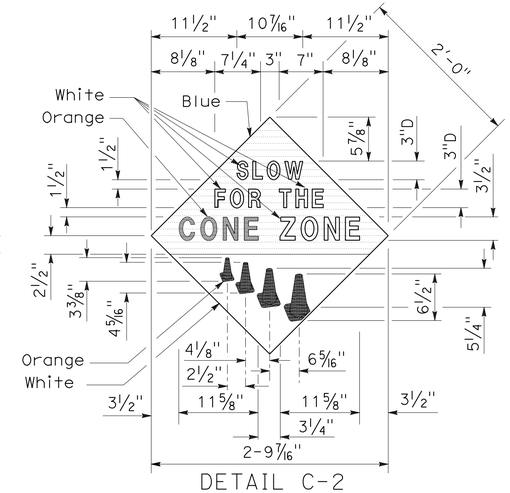
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL D-2
(See Note 6)



DETAIL C-2
(See Note 4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

9-7-06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	31	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated 7-6-10

ELECTROLIERS

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

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

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

Electrolier (see project notes or project plans)

Luminaire on wood pole

STANDARD NOTES:

- AB — Abandon. If applied to conduit, remove conductors.
- BC — Install pull box in existing conduit run.
- BP — Pedestrian barricade, type as indicated on plan.
- CB — Install conduit into existing pull box.
- CC — Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF — Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH — Detector handhole.
- FA — Foundation to be abandoned.
- IS — Install sign on signal mast arm.
- NS — No slip base on standard.
- PEC — Photoelectric control.
- PEU — Photoelectric unit.
- RC — Equipment or material to be removed and become the property of the Contractor.
- RE — Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL — Relocate equipment.
- RR — Remove and reuse equipment.
- RS — Remove and salvage equipment.
- SC — Splice new to existing conductors.
- SD — Service disconnect.
- SF — Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP — Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

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

SOFFIT AND WALL MOUNTED LUMINAIRES

Pendant, 70 W HPS unless otherwise specified.

Flush, 70 W HPS unless otherwise specified.

Wall surface, 70 W HPS unless otherwise specified.

Existing soffit or wall luminaire to remain unmodified.

Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	32	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated 7-6-10

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
C	c	Communication conduit
T	t	Telephone conduit
F	f	Fire alarm conduit
FO	fo	Fiber optic conduit
		Conduit termination (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION

Type of installation

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

ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1B

2006 REVISED STANDARD PLAN RSP ES-1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	33	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated 7-6-10

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

Sign No. 12345

10 ISL SCI 1.0

- Sign number - Place on post or structure
- Transformer rating (kVA)
- Lighting control type
- Number and type of fixtures

Do NOT place on standard or structure

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- Mast arm length, if shown. Do not place on standard or structure.
- Equipment number - Place on standard or structure. Existing equipment numbers are shown in parenthesis

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC

- Number and size of conductors and cables
- Size of conduit in inches

Ø1, Ø2, Ø2P, etc.	Traffic phase identification for signal faces, detectors and phase diagrams
1 2 3	Project note numbers
A B C	Equipment description, installation or item numbers
1 2 3	Conduit run numbers

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- Wind velocity = 100 mph
- Case 3 arm loading
- Standard type
- Standard Plan sheet number
- Detail number or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
EMS	ems	Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

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

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

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
3	9A(21)	Pull box-Additional designations or descriptions

3 = No. 3½ pull box
5 = No. 5 pull box
6 = No. 6 pull box
7 = No. 7 (Ceiling pull box)
8 = No. 8 (Pendant soffit pull box)
9 = No. 9 pull box
9A = No. 9A pull box

(C) = Communications pull box
(E) = Pull box with extension
(S) = Sprinkler control pull box
(21) = Anchor bolts and conduit for future installation of Type 21 Standard
(T) = Traffic pull box

VEHICLE DETECTORS

5 J 9 U

- Vehicle detector designation
- U = Upper
  L = Lower
- Slot number in input file
- Input file (I or J)
- Phase

PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
DH	dh	Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod,Sis	139	34.0/50.7, 0.0/5.1	34	34

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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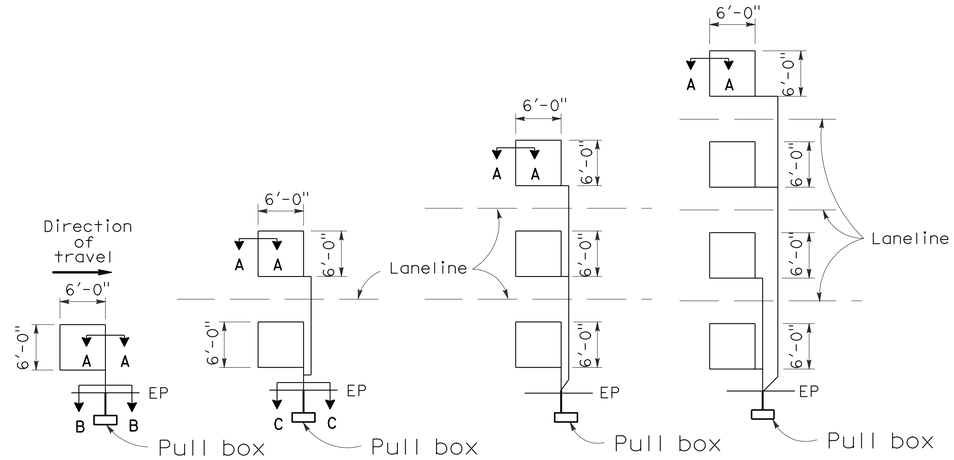
To accompany plans dated 7-6-10

2006 REVISED STANDARD PLAN RSP ES-5A

LOOP INSTALLATION PROCEDURE

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

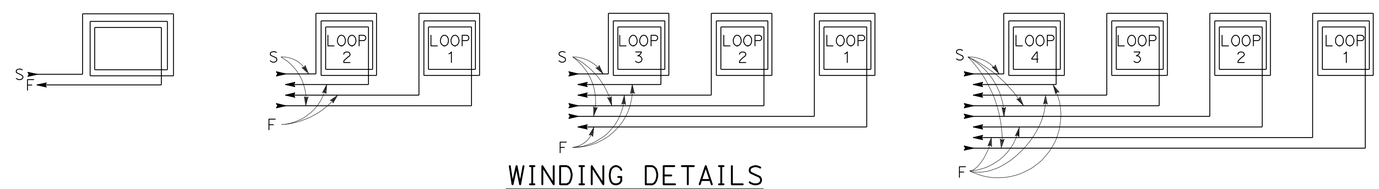


TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

SAWCUT DETAILS

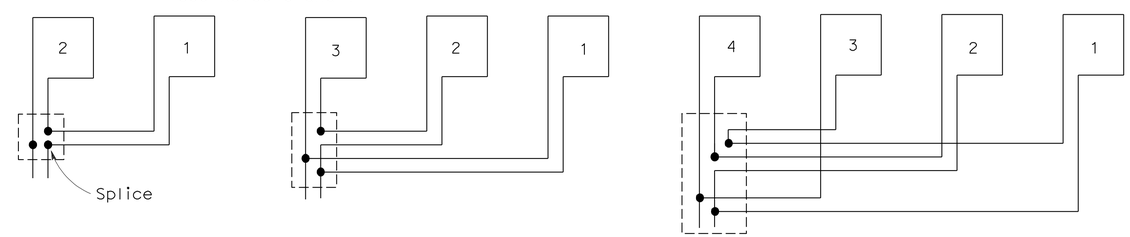
(Type A loop detector configurations illustrated)

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



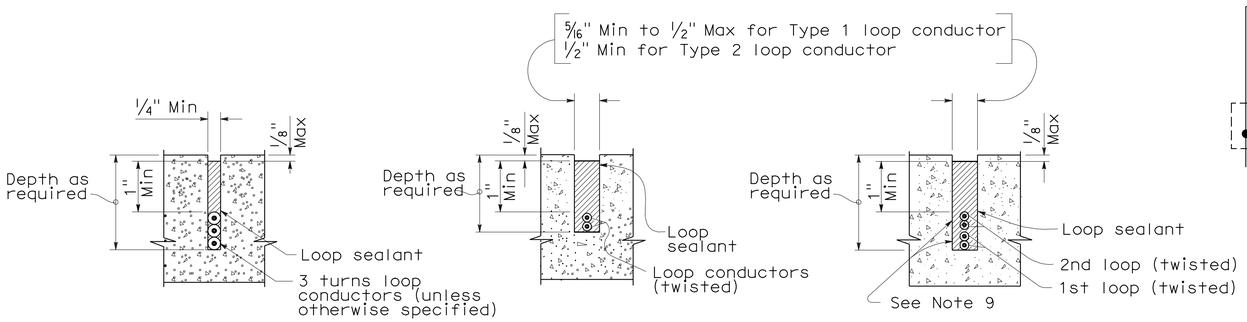
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



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

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-5A