Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	3	77

Brian P. Viray 4-11-16
REGISTERED CIVIL ENGINEER DATE

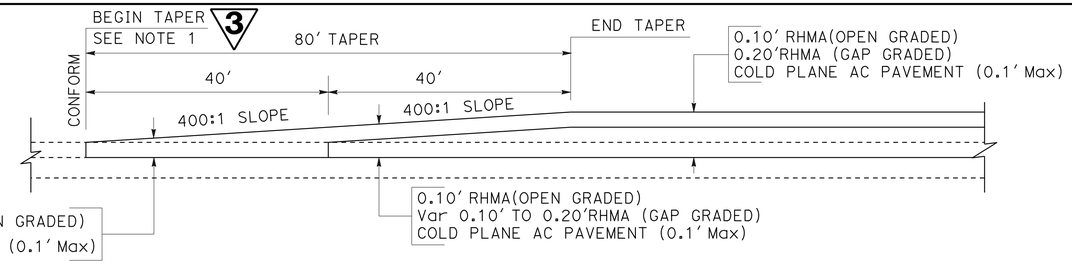
4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. CONFORM AT Beg Const, End Const, BB, EB, Beg WIM, END WIM, REST AREA Rd CONNECTIONS, 65' AT BOTH SIDES OF OC AS SHOWN, AND 80' BEYOND PAVED GORE AREAS. 3



LEGEND

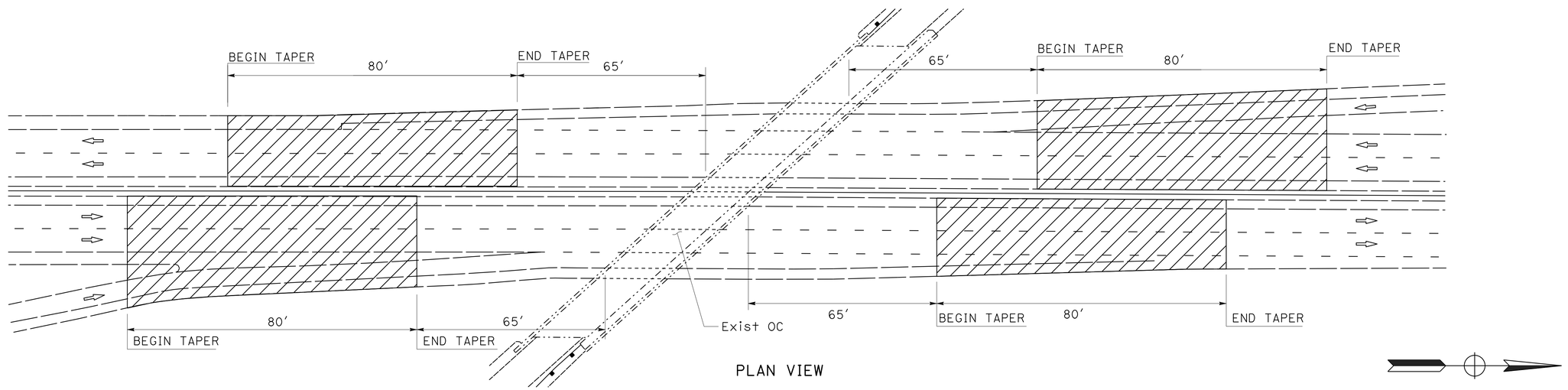
OVERLAY TAPER LIMITS

INDICATES EXISTING STRUCTURE

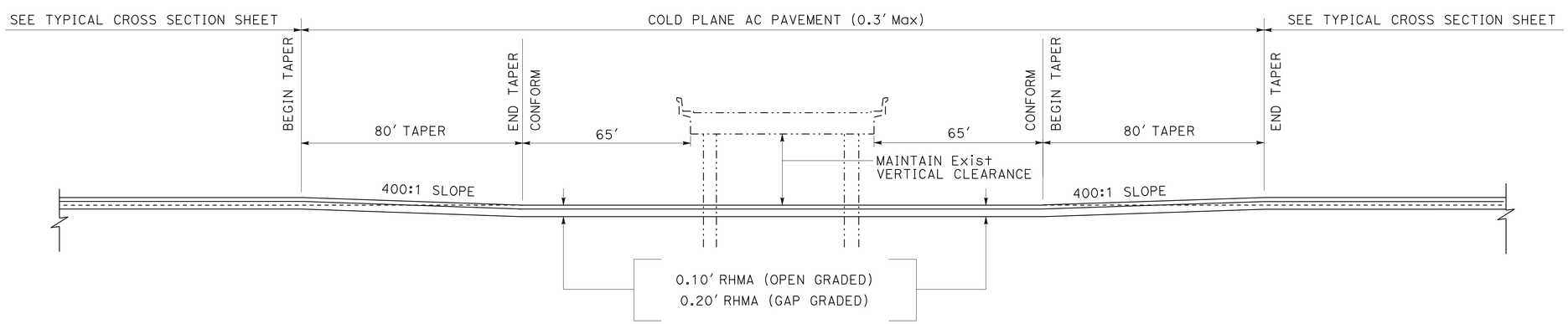
ABBREVIATIONS

WIM - WEIGHT-IN-MOTION STATION

CONFORM: MAINLINE, BRIDGES, REST AREA Rd CONNECTIONS, RAMPS AND WEIGH-IN-MOTION STATIONS (NB PM R10.891 TO PM R10.847; SB PM R10.825 TO PMR10.10.852)



PLAN VIEW



ELEVATION VIEW

OVERCROSSING PAVEMENT OVERLAY TAPER

Co Rd 68 OC	Co Rd 48 OC	Co Rd 33 OC
Co Rd 60 OC	Co Rd 39 OC	Co Rd 35 OC
Co Rd 57 OC	Rte 162/5 Sep	Co Rd 28 OC

3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
CALCULATED-DESIGNED BY: FERMIN BARRIGA
CHECKED BY: BRIAN P. VIRAY
REVISED BY
DATE REVISED

LAST REVISION 02-19-16
DATE PLOTTED => 02-SEP-2016
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	11	77

3

Brian P. Viray 4-11-16
REGISTERED CIVIL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

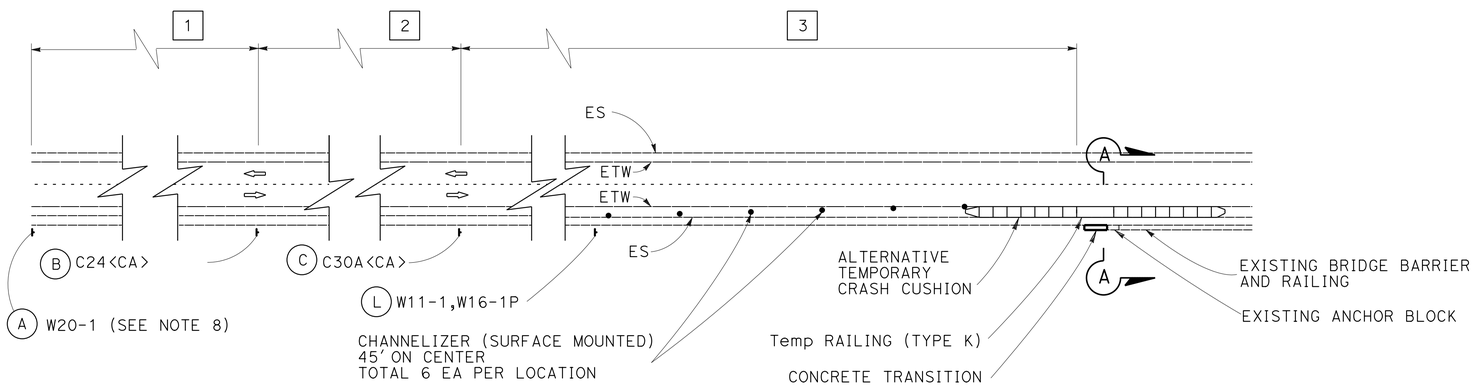
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

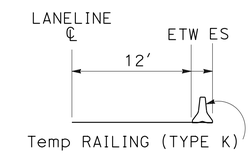
1. BRIDGE ANCHOR BLOCKS SHALL BE SHIELDED FROM TRAFFIC UNTIL ANCHOR BLOCK CONCRETE CURES AND PERMANENT MGS CONNECTION IS PLACED.
2. FOR END ANCHOR BLOCK CONSTRUCTION DETAILS, SEE SHEETS C-4 THROUGH C-8.
3. EXISTING POST SPACING MAY BE 3'-1½" OR EVEN VARIABLE DEPENDING ON FIELD CONDITIONS.
4. MGS WORK IS TO BE DONE USING THE APPROPRIATE TRAFFIC CONTROL Std PLAN T10, T11, T13, AND T14.
5. UTILITIES ARE NOT SHOWN. UTILITY INVESTIGATIONS HAVE BEEN COMPLETED AND NO UTILITIES WERE FOUND WITHIN 50 FEET OF THE OUTER LIMITS OF WORK FOR EACH LOCATION OF CONCRETE BLOCK AND CONCRETE BARRIER. OTHER LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES.
6. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
7. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
8. SEE SHEETS CS-1 AND CS-2 FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

LEGEND

(X)	CONSTRUCTION AREA SIGN LETTER
<CA>	CALIFORNIA SIGN CODE
	SIGN - SINGLE POST
	DIRECTION OF TRAVEL
[X]	CONSTRUCTION AREA SIGN DISTANCE



COUNTY ROAD TYPICAL TEMPORARY RAILING (TYPE K) LAYOUT



SECTION A-A

COUNTY ROAD TEMPORARY RAILING (TYPE K) LOCATIONS

No.	LOCATION
1	PM R1.52, Br No.11-83, Co Rd 68, WB Shld
2	PM R1.52, Br No.11-83, Co Rd 68, EB Shld
3	PM R7.61, Br No.11-80, Co Rd 57, WB Shld
4	PM R7.61, Br No.11-80, Co Rd 57, EB Shld
5	PM R13.90, Br No.11-54, Co Rd 39, WB Shld
6	PM R13.90, Br No.11-54, Co Rd 39, EB Shld
7	PM R16.80, Br No.11-64, Co Rd 33, WB Shld
8	PM R16.80, Br No.11-64, Co Rd 33, EB Shld

3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

COUNTY ROAD ADVANCE CONSTRUCTION AREA SIGN SPACING

No.	LOCATION	1 LENGTH (LF)	2 LENGTH (LF)	3 LENGTH (LF)
1	PM R1.52, Br No.11-83, Co Rd 68, WB Shld	225 ±	225 ±	270 ±
2	PM R1.52, Br No.11-83, Co Rd 68, EB Shld	500 ±	500 ±	600 ±
3	PM R7.61, Br No.11-80, Co Rd 57, WB Shld	288 ±	288 ±	344 ±
4	PM R7.61, Br No.11-80, Co Rd 57, EB Shld	500 ±	500 ±	600 ±
5	PM R13.90, Br No.11-54, Co Rd 39, WB Shld	500 ±	500 ±	600 ±
6	PM R13.90, Br No.11-54, Co Rd 39, EB Shld	500 ±	500 ±	600 ±
7	PM R16.80, Br No.11-64, Co Rd 33, WB Shld	500 ±	500 ±	600 ±
8	PM R16.80, Br No.11-64, Co Rd 33, EB Shld	500 ±	500 ±	600 ±

ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS AND LOCATIONS

SIGN LETTER	SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER AND SIZE OF POST	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(B)		C24	SHOULDER WORK AHEAD	48" x 48"	1- 6" x 6"	8
(C)		C30A	SHOULDER CLOSED	48" x 48"	1- 6" x 6"	8
(L)	W11-1		BICYCLE SYMBOL	36" x 36"	1- 4" x 6"	8
(L)	W16-1P		SHARE THE ROAD	24" x 30"		8

CONSTRUCTION DETAILS

NO SCALE

C-9

REVISED BY | DATE REVISED
FERMIN BARRIGA | BRIAN P. VIRAY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 02-19-16 | DATE PLOTTED => 02-SEP-2016 | TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	14	77

REGISTERED CIVIL ENGINEER 4-11-16 DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

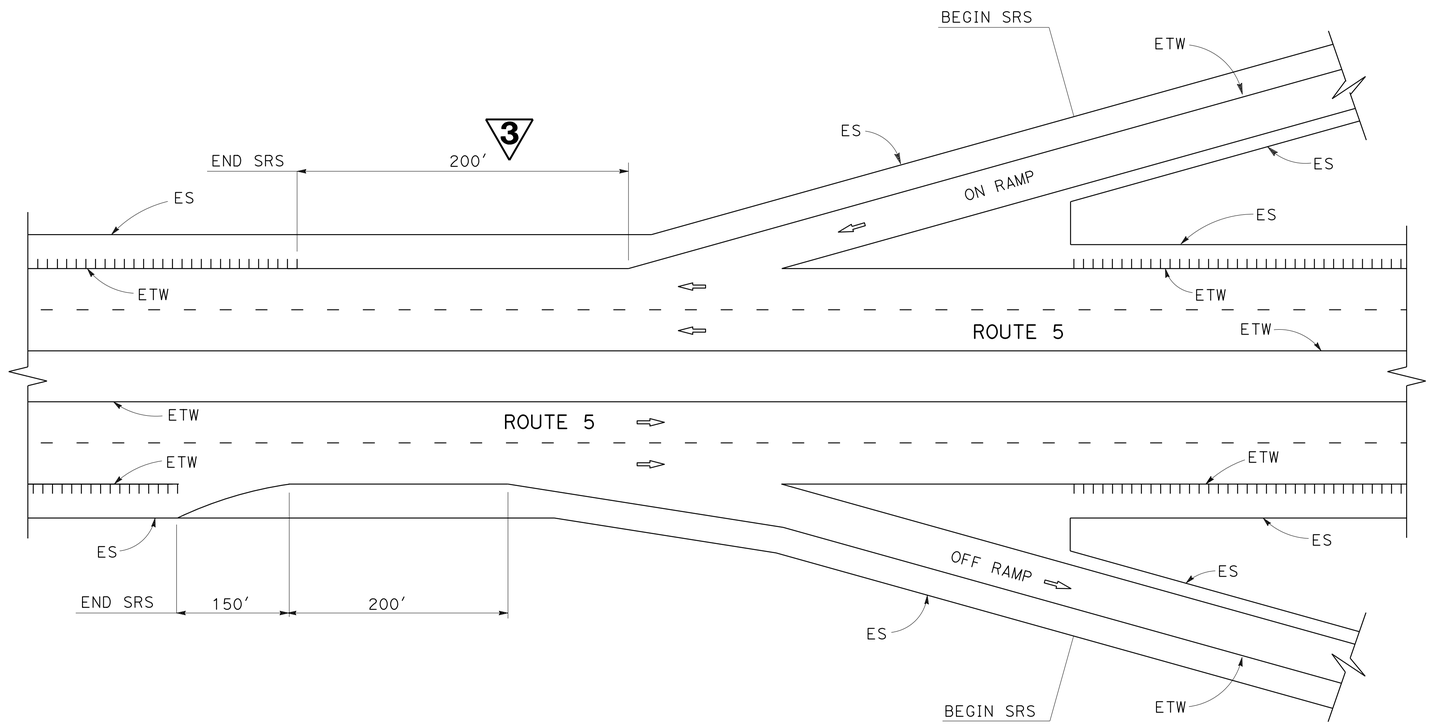
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. SEE STANDARD PLANS FOR DETAILS NOT SHOWN.
2. DO NOT APPLY SRS ON BRIDGE DECKS OR APPROACH SLABS.

ABBR:

SRS = SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS).



PLAN

TYPICAL RUMBLE STRIP DETAIL AT RAMP LOCATIONS

3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

CONSTRUCTION DETAILS
NO SCALE

C-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
CALCULATED-DESIGNED BY: FERMIN BARRIGA
CHECKED BY: BRIAN P. VIRAY
REVISED BY: M.DEILAMI
DATE REVISED:

LAST REVISION 02-19-16
DATE PLOTTED => 02-SEP-2016
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	17	77

REGISTERED CIVIL ENGINEER 4-11-16 DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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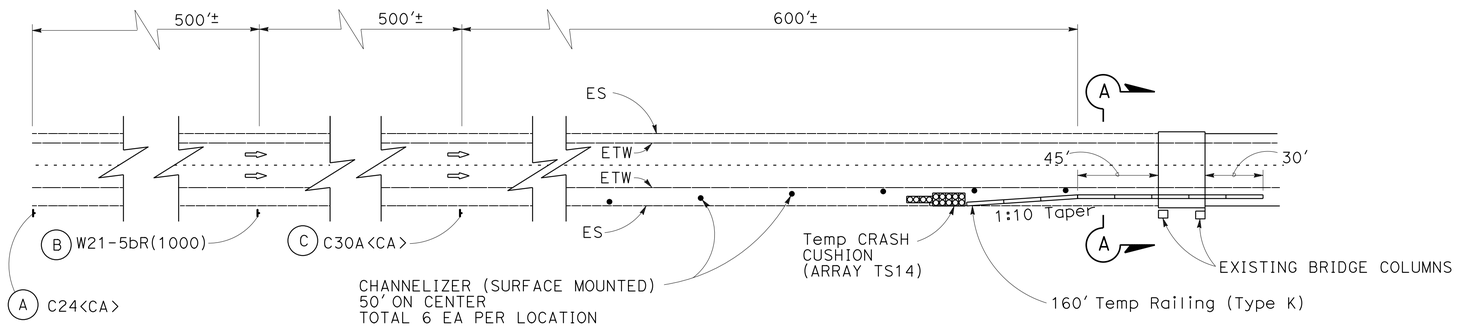
NOTES:

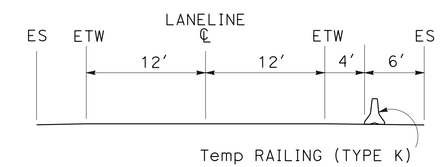
1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. SEE SHEETS CS-1 AND CS-2 FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

LEGEND

(X) CONSTRUCTION AREA SIGN LETTER
<CA> CALIFORNIA SIGN CODE
SIGN - SINGLE POST
DIRECTION OF TRAVEL



3 MAINLINE TYPICAL TEMPORARY RAILING (TYPE K) LAYOUT



SECTION A-A

3 MAINLINE TEMPORARY RAILING (TYPE K) LOCATIONS

No.	LOCATION
1	PM R9.87, Br No.11-56, Rte 162/5 Sep, NB Shld
2	PM R9.87, Br No.11-56, Rte 162/5 Sep, SB Shld
3	PM R10.88, Br No.11-55, Co Rd 48, NB Shld
4	PM R10.88, Br No.11-55, Co Rd 48, SB Shld
5	PM R13.90, Br No.11-54, Co Rd 39, NB Shld
6	PM R15.91, Br No.11-62, Co Rd 39, SB Shld
7	PM R15.91, Br No.11-62, Co Rd 35, NB Shld
8	PM R15.91, Br No.11-62, Co Rd 35, SB Shld
9	PM R16.80, Br No.11-64, Co Rd 33, NB Shld
10	PM R16.80, Br No.11-64, Co Rd 33, SB Shld
11	PM R19.81, Br No.11-76, Co Rd 28, NB Shld
12	PM R19.81, Br No.11-76, Co Rd 28, SB Shld

ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS AND LOCATIONS

SIGN LETTER	SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER AND SIZE OF POST	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)		C24	SHOULDER WORK AHEAD	48" x 48"	1- 6" x 6"	12
(B)	W21-5bR		RIGHT SHOULDER CLOSED 1000 FT	48" x 48"	1- 6" x 6"	12
(C)		C30A	SHOULDER CLOSED	48" x 48"	1- 6" x 6"	12

3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

CONSTRUCTION DETAILS

NO SCALE

C-15

REVISED BY | DATE REVISED
FERMIN BARRIGA | BRIAN P. VIRAY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 02-19-16 | DATE PLOTTED => 02-SEP-2016 | TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	21	77

Brian P. Viray 4-11-16
REGISTERED CIVIL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	10
B	C40(Mod)<CA>	96" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	2
C	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	10
D	G20-1[Spec](21)	84" x 42"	ROAD WORK NEXT 21 MILES	2 - 4" x 6"	4
E	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	2

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS A CALIFORNIA SIGN CODE.
3. <CA> = CALIFORNIA SIGN CODE.
4. SEE SHEETS C-9 AND C-15 FOR ADDITIONAL CONSTRUCTION AREA SIGNS. 3

B C40(Mod)<CA>

TRAFFIC FINES DOUBLED IN WORK ZONES

8" D SERIES LETTERS

96"x60"

RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDERS.

D G20-1[Spec](21)

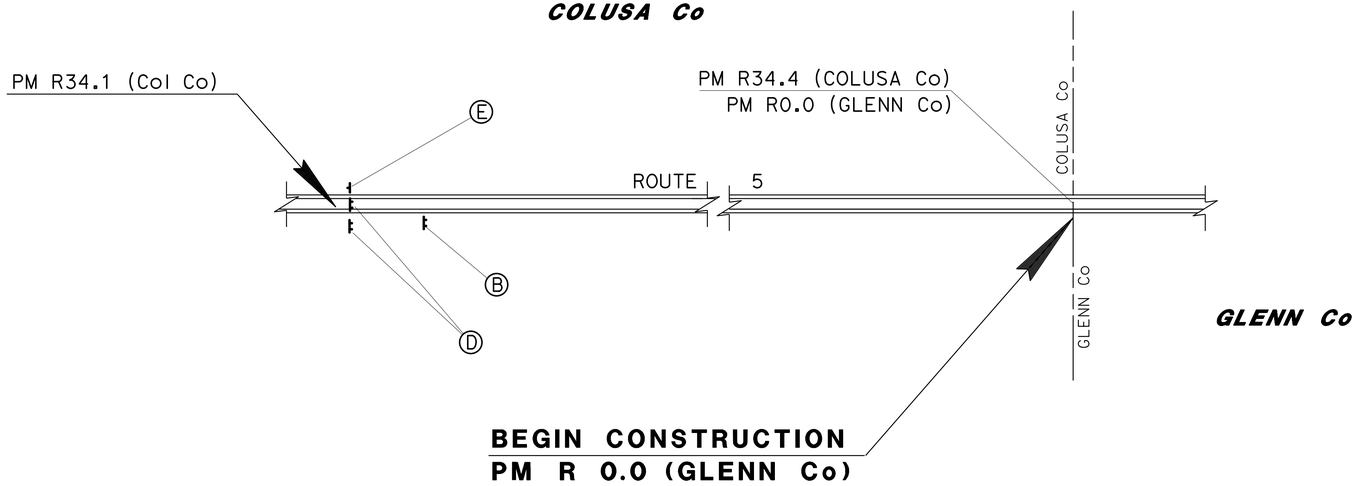
ROAD WORK NEXT 21 MILES

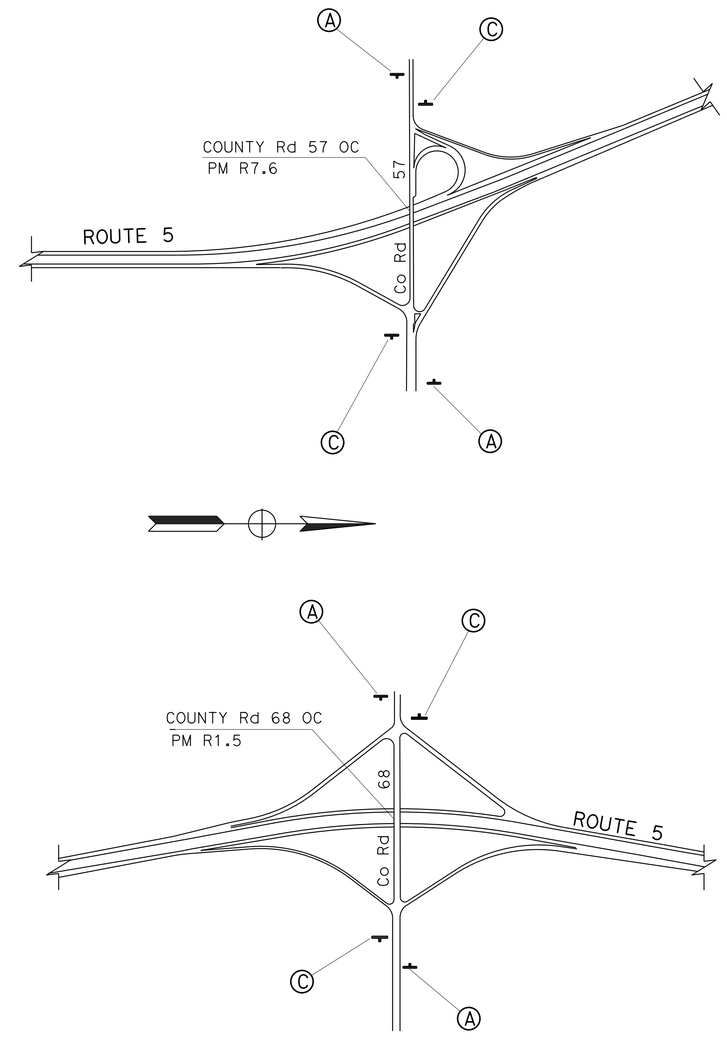
6" C SERIES LETTERS

84"x42"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDERS.

SIGN DETAILS





3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

ROUTE 5

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

APPROVED FOR SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
CALCULATED-DESIGNED BY: FERMIN BARRIGA
CHECKED BY: BRIAN P. VIRAY
REVISED BY
DATE REVISED

LAST REVISION 02-19-16
DATE PLOTTED => 02-SEP-2016
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	27	77

REGISTERED CIVIL ENGINEER 4-11-16 DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION	COLD PLANE ASPHALT CONCRETE PAVEMENT	RUBBERIZED HOT MIX ASPHALT - OPEN GRADED (OPEN GRADED FRICTION COURSE)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
	SQYD	TONS	TONS
NB ROUTE 5 MAIN LINE	301,780	23,832.30	59,886.30
SB ROUTE 5 MAIN LINE	301,780	23,832.30	59,886.30
SB+ NB ROUTE 5 MAIN LINE SAFETY EDGE			3,094.71
NB EXIT RAMP TO Co Rd 68	2,562	180.78	114.66
NB ENTRANCE RAMP FROM Co Rd 68	2,780	188.66	109.66
SB EXIT RAMP TO Co Rd 68	2,700	185.87	129.64
SB ENTRANCE RAMP FROM Co Rd 68	3,216	210.31	141.68
NB EXIT RAMP TO Co Rd 57	2,702	182.51	104.58
NB ENTRANCE RAMP FROM Co Rd 57	3,188	209.92	119.29
SB EXIT RAMP TO Co Rd 57	2,299	160.13	127.16
SB ENTRANCE RAMP FROM Co Rd 57	2,805	172.00	124.13
NB EXIT RAMP TO ROUTE 162	2,885	188.32	127.83
NB ENTRANCE RAMP FROM ROUTE 162	2,966	184.60	117.91
SB EXIT RAMP TO ROUTE 162	2,390	160.35	124.57
SB ENTRANCE RAMP FROM ROUTE 162 W	2,386	153.99	91.33
SB ENTRANCE RAMP FROM ROUTE 162 E	2,667	178.97	117.31
NB EXIT RAMP TO Co Rd 39	2,335	158.44	115.54
NB ENTRANCE RAMP FROM Co Rd 39	2,175	142.52	123.48
SB EXIT RAMP TO Co Rd 39	2,313	157.31	132.30
SB ENTRANCE RAMP FROM Co Rd 39	2,553	174.13	133.48
NB EXIT RAMP TO REST AREA	1,421	85.86	215.75
NB ENTRANCE RAMP FROM REST AREA	1,708	94.69	237.93
SB EXIT RAMP TO REST AREA	1,129	68.58	172.33
SB ENTRANCE RAMP FROM REST AREA	1,321	74.00	185.96
NB EXIT RAMP TO Co Rd 33	2,373	160.66	124.66
NB ENTRANCE RAMP FROM Co Rd 33	2,270	147.41	108.63
SB EXIT RAMP TO Co Rd 33	2,434	151.46	132.11
SB ENTRANCE RAMP FROM Co Rd 33	2,639	168.60	117.60
TOTAL	663,776	51,604.70	126,216.81

REPLACE ASPHALT CONCRETE SURFACING

LOCATION	CY
CR 68 EAST SIDE OF THE BRIDGE	134.09
CR 68 WEST SIDE OF THE BRIDGE	131.44
CR 57 EAST SIDE OF THE BRIDGE	173.09
CR 57 WEST SIDE OF THE BRIDGE	132.41
ROUTE 162 EAST SIDE OF THE BRIDGE	243.31
ROUTE 162 WEST SIDE OF THE BRIDGE	233.56
CR 39 EAST SIDE OF THE BRIDGE	98.70
CR 39 WEST SIDE OF THE BRIDGE	108.33
CR 33 EAST SIDE OF THE BRIDGE	104.96
CR 33 WEST SIDE OF THE BRIDGE	102.80
TOTAL	1,462.71

TACK COAT 3

LOCATION	TONS
ROUTE 5(SB)	414.93
ROUTE 5(NB)	414.93
RAMPS 0.3' OVERLAY	21.27
RAMPS 0.1' OVERLAY	23.66
OVERCROSSINGS, REPLACE AC SURFACING	8.04
TOTAL	882.85

SHOULDER BACKING

LOCATION	LENGTH, MILE	TONS
ROUTE 5(SB+NB)	78.01	13,437
RAMPS	3.49	601
TOTAL		14,038

IMPORTED BORROW

LOCATION	LENGTH, MILE	CY
ROUTE 5(SB+NB)	1.13	99.42
RAMPS	0.71	62.62
OVERCROSSINGS	0.79	79.90
TOTAL		231.93

3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR FERMIN BARRIGA
CALCULATED-DESIGNED BY M. DEILAMI
CHECKED BY BRIAN P. VIRAY
REVISED BY
DATE REVISED

LAST REVISION 02-19-16
DATE PLOTTED => 02-SEP-2016
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	28	77

REGISTERED CIVIL ENGINEER DATE 4-11-16

PLANS APPROVAL DATE 4-11-16

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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3

REMOVE ASPHALT CONCRETE DIKE & PLACE HOT MIX ASPHALT DIKE

ROUTE, COUNTY ROADS		L+/R+	LOCATION	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE												* MINOR HMA
					TYPE A			TYPE C			TYPE F			TYPE D			
				LF	LF		TON	LF		TON	LF		TON	LF		TON	TON
CR 68		R+	NB5, EXIT	434.50										434.50		26.73	26.73
		L+	NB5,EXIT	489.8										489.80		30.14	30.14
		R+	NB5, ENTER	539.34										539.34		33.19	33.19
		R+	SB5, ENTER	508.48										508.48		31.29	31.29
		LT	SB5, EXIT	219.1										219.10		13.48	13.48
		RT	68, SW TO BRIDGE	335.68				53.00		0.42	25.00		0.35	257.68		15.86	16.63
CR 57		R+	NB5, EXIT	424.16										424.16		26.10	26.10
		R+	NB5, ENTER	300.58										300.58		18.49	18.49
		RT	57, NE TO BRIDGE	497				53.00		0.42	25.00		0.35	444.00		27.32	28.09
		LT	57, SE TO BRIDGE	354										354.00		21.78	21.78
		LT	57, NW TO BRIDGE	436.06										436.06		26.83	26.83
		RT	57, SW TO BRIDGE	635.07				53.00		0.42	25.00		0.35	557.07		34.28	35.05
		RT	SB5, EXIT	645.56										645.56		39.72	39.72
CR 39		RT	39, NE TO BRIDGE	308				53.00		0.42	25.00		0.35	230.00		14.15	14.92
		LT	39, SE TO BRIDGE	290										290.00		17.84	17.84
		RT	39, SW TO BRIDGE	282				53.00		0.42	25.00		0.35	204.00		12.55	13.32
		RT	SB5, ENTER	75										75.00		4.61	4.61
CR 33		RT	33, NE TO BRIDGE	334				53.00		0.42	25.00		0.35	256.00		15.75	16.52
		LT	33, SE TO BRIDGE	307										307.00		18.89	18.89
		R+	SB5, ENTER	120										120.00		7.38	7.38
		RT	33, SW TO BRIDGE	390				53.00		0.42	25.00		0.35	312.00		19.20	19.97
ROUTE 5																	
BEGIN PM	END PM																
R8.66	R8.82	SB R+	ENDS AT END BR 11-57	836.00										836.00		51.44	51.44
R8.87	R9.01	NB R+	BEGINS AT END BR 11-57	757.00										757.00		46.58	46.58
R10.07	R10.37	SB R+	ENDS AT WEST WILLOWS OH 11-60	1605.00				37.50		0.30	50.50		0.70	1517.00		93.34	93.34
R10.38	R10.71	NB R+	BEGINS AT ENDS WEST WILLOWS OH 11-60	1733.00										1733.00		106.63	106.63
R12.59	R13.6	SB R+	BEGIN AT END OF BR 11-53	5322.00	5,322.00		150.88										150.88
R16.99	R17.01	NB R+	BEFORE GR AND WALKER CR BRIDGE	122.00										122.00		7.51	7.51
R17.39	R17.49	SB R+	ENDS AT WALKER CR BRIDGE	550.00										550.00		33.84	33.84
R17.53	R17.60	NB R+	BEGINS AT END OF WALKER CR BRIDGE	362.00										362.00		22.27	22.27
			TOTAL	19212.3	5,322.00		150.88	408.50		3.24	225.50		3.15	13281.33		817.19	973.46

* SEE MINOR HOT MIX ASPHALT FOR FINAL QUANTITY

SUMMARY OF QUANTITIES

Q-2

3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR: FERMIN BARRIGA

CALCULATED-DESIGNED BY: MAHBOOBHEH DEILAMI

CHECKED BY: BRIAN P. VIRAY

REVISED BY

DATE REVISED

LAST REVISION 02-19-16

DATE PLOTTED => 02-SEP-2016

TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	29	77

Brian P. Viray 4-11-16
REGISTERED CIVIL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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

3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

SUMMARY OF QUANTITIES

	POSTMILE	DESCRIPTION	DIRECTION	REMOVE GUARDRAIL	REMOVE CONCRETE (CY)	(N) MGS TYPICAL LAYOUT	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	CRASH CUSHION (TYPE CAT)	CRASH CUSHION (TYPE CAT) BACKUP	* PLACE HOT MIX ASPHALT DIKE (TYPE C)	* PLACE HOT MIX ASPHALT DIKE (TYPE F)	TRANSITION RAILING (TYPE WB-31)	MINOR CONCRETE (MINOR STRUCTURE)	(N) CONCRETE BLOCK DETAIL No.	OBJECT MARKER (TYPE L-1)	TEMPORARY RAILING (TYPE K)	ALTERNATIVE CRASH CUSHION	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)	DOUBLE MIDWEST GUARDRAIL SYSTEM (WOOD POST)	CONCRETE BARRIER (TYPE 60SD)	RAIL TENSIONING ASSEMBLY	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE TEMPORARY CRASH CUSHION
				LF	CY	TYPE	LF	EA	EA	EA	EA	LF	LF	EA	CY		EA	LF	EA	EA	EA	LF	LF	EA	EA	EA
* *	R1.52	ATTACH TO WB Br No. 11-0083 (Co Rd 68 OC), R+	WB	37.5		12A		1						1	2.71	11		20			6					2
* *	R1.52	ATTACH TO EB Br No. 11-0083 (Co Rd 68 OC), R+	EB	37.5		12A		1				53.0	25.0	1	0.66	9-11		20			6					2
	R5.06	MGS SHIELDING NORTH FORK LOGAN CREEK	NB	115.0		11B	87.5		1								1								1	
	R7.61	ATTACH TO SW Br No. 11-80 (Co Rd 57 OC)	WB	37.5		12A		1				53.0	25.0	1	10.94	2		60			6					2
	R7.61	ATTACH TO NE Br No. 11-80 (Co Rd 57 OC)	EB	37.5		12A		1				53.0	25.0	1	10.94	2		60			6					2
	R7.86	MGS SHIELDING A CANAL	NB	162.5		11B	125.0		1								1								1	
	R7.86	MGS SHIELDING A CANAL	SB	162.5		11B	125.0		1								1								1	
	R8.64	CENTRAL IRRIGATION CANAL, R+ SIDE	NB	1,012.5		12B	950.0		1					1			1									
	R8.64	CENTRAL IRRIGATION CANAL, L+ SIDE	NB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R9.02	CENTRAL IRRIGATION CANAL, R+ SIDE	SB	787.5		12B	725.0		1					1			1									
	R8.92	CENTRAL IRRIGATION CANAL, L+ SIDE	SB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R9.25	MGS SHIELDING A CANAL	NB	300.0		11B	262.5		1								1								1	
	R9.36	MGS SHIELDING A CANAL	SB	287.5		11B	250.0		1								1								1	
	R9.62	MGS SHIELDING A SIGN STRUCTURE POST	NB	75.0		16B	50.0		1								1								1	
	R9.85	AT COLUMNS TO Br No. 11-56 (R+e 162/5 Sep)	NB	75.0	6.5											60SD		160	1	14	6		67.2			
	R9.88	AT COLUMNS TO Br No. 11-56 (R+e 162/5 Sep)	SB	62.5	6.5	12B			1					1		60SD	1	160		14	6		67.2			
	R10.06	ATTACH TO Br No. 11-60R (WEST WILLOWS OH), R+	NB	1,587.5		12B	1,525.0		1					1			1									
	R10.1	MGS SHIELDING SIGN STRUCTURE	SB	87.5		16B	62.5		1			37.5	50.5				1								1	
	R10.31	ATTACH TO Br No. 11-60R (WEST WILLOWs OH), L+	NB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R10.45	ATTACH TO Br No. 11-60R (WEST WILLOWs OH), L+	SB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R10.72	ATTACH TO Br No. 11-60R (WEST WILLOWs OH), R+	SB	1,683.0		12B	1,625.0		1					1			1									
	R10.86	AT COLUMNS TO Br No. 11-55 (Co Rd 48 OC), R+	NB	75.0	6.5											60SD		160	1	14	6		67.2			
	R10.91	AT COLUMNS TO Br No. 11-55 (Co Rd 48 OC), L+	SB	62.5	6.5	12B			1					1		60SD	1	160		14	6		67.2			
	R11.93	ATTACH TO Br No. 11-63R (BOYD OVERFLOW), R+	NB	262.5		12B	200.0		1					1			1									
	R11.93	ATTACH TO Br No. 11-63R (BOYD OVERFLOW), L+	NB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R12.05	ATTACH TO Br No. 11-63L (BOYD OVERFLOW), R+	SB	87.5		12B	25.0		1					1			1									
	R12.02	ATTACH TO Br No. 11-63L (BOYD OVERFLOW), L+	SB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R12.34	ATTACH TO Br No. 11-58R (S FORK WILLOW CREEK), L+	NB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R12.34	ATTACH TO Br No. 11-58R (S FORK WILLOW CREEK), R+	NB	262.5		12B	200.0		1					1			1									
	R12.48	ATTACH TO Br No. 11-58L (S FORK WILLOW CREEK), L+	SB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R12.48	ATTACH TO Br No. 11-58L (S FORK WILLOW CREEK), R+	SB	262.5		12B	200.0		1					1			1									
	R12.52	ATTACH TO Br No. 11-53R (WILSON CREEK), L+	NB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R12.52	ATTACH TO Br No. 11-53R (WILSON CREEK), R+	NB	260.0		12B	200.0		1					1			1									
	R12.64	ATTACH TO Br No. 11-53R (WILSON CREEK), L+	SB	268.75		12E	25.0		1	1	1			1			1					175.0		1		
	R12.61	ATTACH TO Br No. 11-53R (WILSON CREEK), R+	SB	100.0		12B	37.5		1					1			1									
	R13.88	AT COLUMNS TO Br No. 11-54 (Co Rd 39 OC)	NB	62.5	6.5	12B			1					1		60SD	1	160		14	6		67.2			
* * *	R13.92	AT COLUMNS TO Br No. 11-54 (Co Rd 39 OC)	SB	137.5	6.5	12B	75.0		1					1		60SD	1	160		14	6		67.2			
	R13.8	ATTACH TO NE Br No. 11-54 (Co Rd 39 OC)	WB	37.5		12A		1				53.0	25.0	1	4.59	5		20			6					2
	R13.8	ATTACH TO SW Br No. 11-54 (Co Rd 39 OC)	EB	37.5		12A		1				53.0	25.0	1	0.64	1		20			6					2
	R14.45	MGS SHIELDING REST AREA	NB	1,000.0		11B	962.5		1								1								1	
		SUBTOTAL		11,883.0	39.0		7937.50	6	32	10	10	302.5	175.5	30	30.48		32	1160	2	84	72	1,750.0	403.2	10	8	12

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

* - ONLY "LF" FOR PLACE HMA DIKE NEXT TO MGS IS SHOWN. SEE HMA DIKE TABLE FOR COMPLETE HMA DIKE PLACEMENT LIST.

* * - RAILING TO BE REMOVED AS GR.

* * * - SKIP ONE POST OVER DOUBLE 30" RCP AT Approx 95' FROM THE OC COLUMN. SEE SHEET C-18.

SUMMARY OF QUANTITIES

Q-3

REVISED BY | DATE REVISED
FERMIN BARRIGA | MAHBOOBEH DEILAMI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
FERMIN BARRIGA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 02-19-16 | DATE PLOTTED => 02-SEP-2016 | TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	30	77

3

Brian P. Viray 4-11-16
REGISTERED CIVIL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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SUMMARY OF QUANTITIES

	POSTMILE	DESCRIPTION	DIRECTION	REMOVE GUARDRAIL	REMOVE CONCRETE (CY)	(N) MGS TYPICAL LAYOUT	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	CRASH CUSHION (TYPE CAT)	CRASH CUSHION (TYPE CAT) BACKUP	* PLACE HOT MIX ASPHALT DIKE (TYPE C)	* PLACE HOT MIX ASPHALT DIKE (TYPE F)	TRANSITION RAILING (TYPE WB-31)	MINOR CONCRETE (MINOR STRUCTURE)	(N) CONCRETE BLOCK DETAIL No.	OBJECT MARKER (TYPE L-1)	TEMPORARY RAILING (TYPE K)	ALTERNATIVE CRASH CUSHION	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)	DOUBLE MIDWEST GUARDRAIL SYSTEM (WOOD POST)	CONCRETE BARRIER (TYPE 60SD)	RAIL TENSIONING ASSEMBLY	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE TEMPORARY CRASH CUSHION
				LF	CY	TYPE	LF	EA	EA	EA	EA	LF	LF	EA	CY		EA	LF	EA	EA	EA	LF	LF	EA	EA	EA
	R14.48	MBGR SHIELDING A CANAL	NB	88.0		11B	62.5		1								1								1	
	R14.59	MBGR SHIELDING A CANAL	NB	187.5		11B	150.0		1								1								1	
	R14.7	MGS SHIELDING REST AREA	SB	800.0		11B	762.5		1								1								1	
	R14.91	MBGR SHIELDING A CANAL, R†	SB	100.0		11B	62.5		1								1								1	
	R15.61	AT COLUMNS TO Br No. 11-62 (Co Rd 35 OC)	NB	62.5	6.1									1		60SD		160	1	14	6		65.7			
	R15.64	AT COLUMNS TO Br No. 11-62 (Co Rd 35 OC)	SB	62.5	6.1											60SD		160	1	14	6		65.7			
	R16.51	AT COLUMNS TO Br No. 11-64 (Co Rd 33 OC)	NB	62.5	6.5	12B			1					1		60SD	1	160		14	6		67.2			
* *	R16.55	AT COLUMNS TO Br No. 11-64 (Co Rd 33 OC)	SB	150.0	6.5	12B	87.5		1					1		60SD	1	160		14	6		67.2			
	R16.8	ATTACH TO NE Br No. 11-64 (Co Rd 33 OC)	WB	37.5		12A		1				53.0	25.0	1	4.59	5		20			6					2
	R16.8	ATTACH TO SW Br No. 11-64 (Co Rd 33 OC)	EB	37.5		12A		1				53.0	25.0	1	0.64	1		20			6					2
	R17.16	ATTACH TO Br No. 11-65R (WALKER CREEK), L†	NB	268.8		12E	25.0			1	1			1			1					175.0		1		
	R17.15	ATTACH TO Br No. 11-65R (WALKER CREEK), R†	NB	275.0		12A	200.0	1						1												
	R17.31	ATTACH TO Br No. 11-65R (WALKER CREEK), L†	SB	268.8		12E	25.0			1	1			1			1					175.0		1		
	R17.31	ATTACH TO Br No. 11-65R (WALKER CREEK), R†	SB	262.5		12B	200.0		1					1			1									
	R19.01	MGS SHEILDING A CANAL	NB	150.0		11B	112.5		1								1								1	
	R19.05	MGS SHEILDING A CANAL	SB	125.0		11B	87.5		1								1								1	
	R19.52	AT COLUMNS TO Br No. 11-76 (Co Rd 28 OC)	NB	62.5	6.2	12B			1					1		60SD	1	160		14	6		66.2			
	R19.53	AT COLUMNS TO Br No. 11-76 (Co Rd 28 OC)	SB	62.5	6.2	12B			1					1		60SD	1	160		14	6		66.2			
		SUBTOTAL-Q4		3,063.1	37.6		1,775.0	3	11	2	2	106.0	50.0	11	5.23		13	1000	2	84	48	350.0	398.2	2	6	4
		SUBTOTAL-Q3		11,883.0	39.0		7,937.5	6	32	10	10	302.5	175.5	30	30.48		32	1160	2	84	72	1,750.0	403.2	10	8	12
		TOTAL		14,946.1	76.6		9,712.5	9	43	12	12	408.5	225.5	41	35.71		45	2160	4	168	120	2,100.0	801.4	12	14	16

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

* - ONLY "LF" FOR PLACE HMA DIKE NEXT TO MGS IS SHOWN. SEE HMA DIKE TABLE FOR COMPLETE DIKE PLACEMENT LIST.

* * - SKIP TWO MGS POSTS OVER THE 3'x6' RCB FROM Approx 100' TO 113' FROM THE OC COLUMN. SEE SHEET C-18.

3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
CALCULATED-DESIGNED BY: MAHBOOBEH DEILAMI
CHECKED BY: BRIAN P. VIRAY
REVISED BY
DATE REVISED
LAST REVISION 02-19-16
DATE PLOTTED => 02-SEP-2016
TIME PLOTTED => 13:56
BORDER LAST REVISED 7/2/2010
USERNAME => s119538
DGN FILE => 0314000019pq004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0305
PROJECT NUMBER & PHASE 0314000019

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	31	77

Brian P. Viray 4-11-16
REGISTERED CIVIL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BRIAN P VIRAY No. C70023 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

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3

OVERSIDE DRAIN

PM	DIRECTION		LOCATION	LENGTH	PLACE HMA (MISCELLANEOUS AREA)	* MINOR HMA
				FT	SQYD	TON
R1.51	NB	RT	COUNTY ROAD 68 OVERCROSSING	12.5	8.41	1.47
R1.52	SB	RT	COUNTY ROAD 68 OVERCROSSING	8.0	6.66	1.16
R1.52	SB	RT	COUNTY ROAD 68 OVERCROSSING	3.0	4.71	0.82
R1.52	SB	RT	COUNTY ROAD 68 OVERCROSSING	9.5	7.24	1.27
R1.52	SB	LT	COUNTY ROAD 68 OVERCROSSING	6.5	6.07	1.06
R7.54	NB	RT	RAMP ROUTE 5/COUNTY ROAD 57 OVERCROSSING	21.0	11.71	2.05
R7.54	NB	RT	COUNTY ROAD 57 OVERCROSSING	21.0	11.71	2.05
R7.57	NB	RT	COUNTY ROAD 57 OVERCROSSING	14.0	8.99	1.57
R7.57	NB	RT	COUNTY ROAD 57 OVERCROSSING	12.5	8.41	1.47
R7.57	NB	RT	COUNTY ROAD 57 OVERCROSSING	20.0	11.32	1.98
R7.61	NB	RT	RAMP ROUTE 5/COUNTY ROAD 57 OVERCROSSING	12.0	8.21	1.44
R7.68	SB	RT	RAMP ROUTE 5/COUNTY ROAD 57 OVERCROSSING	20.5	11.52	2.02
R7.68	SB	RT	RAMP ROUTE 5/COUNTY ROAD 57 OVERCROSSING	20.5	11.52	2.02
R7.68	SB	RT	STATE ROUTE 57 OVERCROSSING	15.0	9.38	1.64
R7.69	SB	LT	STATE ROUTE 57 OVERCROSSING	15.0	9.38	1.64
R7.72	SB	RT	RAMP ROUTE 5/COUNTY ROAD 57 OVERCROSSING	20.0	11.32	1.98
R7.72	SB	RT	RAMP ROUTE 5/COUNTY ROAD 57 OVERCROSSING	20.0	11.32	1.98
R8.64	NB	RT	ROUTE 5	12.0	8.21	1.44
R8.64	SB	RT	ROUTE 5	14.5	9.18	1.61
R9.01	NB	RT	ROUTE 5	11.0	7.82	1.37
R9.01	SB	RT	ROUTE 5	20.5	11.52	2.02
R8.87	SB	RT	SB LOOP ONRAMP	17.0	10.16	1.78
R10.06	SB	RT	ROUTE 5	8.5	6.85	1.20
R10.07	NB	RT	ROUTE 5	10.0	7.43	1.30
R12.43	NB	RT	ROUTE 5	5.5	5.68	0.99
R13.88	SB	RT	COUNTY ROAD 39 OVERCROSSING	23.0	12.49	2.19
R13.90	NB	RT	RAMP ROUTE 5/COUNTY ROAD 39 OVERCROSSING	6.0	5.88	1.03
R13.90	SB	RT	RAMP ROUTE 5/COUNTY ROAD 39 OVERCROSSING	15.0	7.43	1.64
R13.91	SB	RT	COUNTY ROAD 39 OVERCROSSING	25.0	5.68	2.32
R13.92	NB	RT	COUNTY ROAD 33 OVERCROSSING	17.0	10.16	1.78
R16.78	SB	RT	COUNTY ROAD 33 OVERCROSSING	8.0	6.66	1.16
R16.80	NB	RT	RAMP ROUTE 5/COUNTY ROAD 33 OVERCROSSING	23.0	12.49	2.19
R16.82	SB	RT	RAMP ROUTE 5/COUNTY ROAD 33 OVERCROSSING	15.0	9.38	1.64
R17.40	NB	RT	ROUTE 5	12.0	8.21	1.44
R17.53	NB	RT	ROUTE 5	15.0	9.38	1.64
			TOTAL	509.0	321.87	56.35

* SEE MINOR HOT MIX ASPHALT FOR FINAL QUANTITY.

ADJUST FRAME AND GRATE TO GRADE AND TEMPORARY DRAINAGE INLET PROTECTION

POSTMILE	DIRECTION		LOCATION	ADJUST FRAME AND GRATE TO GRADE	TEMPORARY DRAINAGE INLET PROTECTION
				(EA)	(EA)
R12.88	SB	RT	ROUTE 5	1	1
R13.26	SB	RT	ROUTE 5	1	1
R13.36	SB	RT	ROUTE 5	1	1
65.59**	NB	LT	STATE ROUTE 162 OVERCROSSING	1	1
65.59**	NB	LT	RAMP ROUTE 5/STATE ROUTE 162 OVERCROSSING	1	1
65.44**	SB	RT	RAMP ROUTE 5/STATE ROUTE 162 OVERCROSSING	1	1
65.44**	SB	RT	RAMP ROUTE 5/STATE ROUTE 162 OVERCROSSING	1	1
			TOTAL	7	7

** - STATE ROUTE 162 POSTMILE

PRE/POST CONSTRUCTION SURVEYS

LOCATION	EA
NB ROUTE 5 AT ROUTE 162 EXIT RAMP, SE CORNER, LOCATION 1	1
SB ROUTE 5 AT ROUTE 162 EXIT RAMP, NW CORNER, LOCATION 2	1
SB ROUTE 5 AT ROUTE 162 ENTRANCE RAMP, SW CORNER, LOCATION 3	1
TOTAL	3

CURB RAMP QUANTITIES

POSTMILE	DIRECTION	LOCATION	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	REMOVE CONCRETE (MISCELLANEOUS)	DETECTABLE WARNING SURFACE
			CY	CY	SQFT
65.6	EB	ROUTE 162	3.52	2.65	19.2
65.4	EB	ROUTE 162	2.86	2.86	18.6
65.4	WB	ROUTE 162	1.91	1.91	21.9
		TOTAL	8.29	7.42	59.7

TREATED WOOD WASTE

LOCATION / PM	TREATED WOOD WASTE
	LB
R0.0 / R20.0	229,333
TOTAL	229,333

MINOR HOT MIX ASPHALT

LOCATION	TON
OVERSIDE DRAIN	56.35
ROUTE, COUNTY ROADS, ROUTE 5	973.46
TOTAL	1029.81

SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)

Route 5		LOCATION			STA
BEGIN PM	END PM				
R0.00	R1.25	NB	RT	AT EXIT TO CR 68	66.00
R1.39	R1.70	NB	RT	AT ENTER FROM CR 68	16.37
R1.81	R2.74	NB	RT	Beg Logan Cr 11-90	49.10
R2.75	R5.08	NB	RT	Beg N Fk Logan Cr 11-93	123.02
R5.085	R7.35	NB	RT	AT EXIT TO CR 57	119.59
R7.51	R7.74	NB	RT	AT ENTER FROM CR 57	12.14
R7.85	R8.82	NB	RT	Beg Central Irr Cannal 11-57	51.22
R8.861	R9.65	NB	RT	AT EXIT TO SR 162	41.66
R9.80	R10.00	NB	RT	AT ENTER FROM SR 162	10.56
R10.15	R10.36	NB	RT	W Willows UC 11-60	11.09
R10.382	R11.98	NB	RT	Boyd Overflow Br 11-63	84.37
R11.998	R12.39	NB	RT	S Fork Willow Cr 11-58	20.70
R12.431	R12.58	NB	RT	AT EXIT TO CR 39	7.87
R12.599	R13.69	NB	RT	Wilson Cr Br 11-53	57.60
R13.85	R13.89	NB	RT	AT ENTER FROM CR 39	2.11
R14.04	R14.36	NB	RT	AT EXIT TO REST AREA	16.90
R14.51	R14.62	NB	RT	AT ENTER FROM REST AREA	5.81
R14.77	R16.60	NB	RT	AT EXIT TO CR 33	96.62
R16.76	R16.79	NB	RT	AT ENTER FROM CR 33	1.58
R16.93	R17.49	NB	RT	Beg Walker Cr Br 11-65	29.57
R17.533	R20.00	NB	RT	END Walker Cr Br to the END	130.26
R0.00	R20.00	NB	LT	*NB LEFT SIDE MINUS BRIDGES (1013.76 ft)	1045.86
R0.00	R1.29	SB	RT	AT ENTER FROM CR 68	68.11
R1.45	R1.69	SB	RT	AT EXIT TO CR 68	12.67
R1.83	R2.74	SB	RT	Beg Logan Cr 11-90	48.05
R2.75	R5.08	SB	RT	Beg N Fk Logan Cr 11-93	123.02
R5.085	R7.55	SB	RT	AT ENTER FROM CR 57	130.15
R7.71	R7.81	SB	RT	AT EXIT TO CR 57	5.28
R7.95	R8.82	SB	RT	Beg Central Irr Cannal 11-57	45.94
R8.861	R9.65	SB	RT	AT ENTER FROM SR 162	41.66
R9.96	R10.01	SB	RT	AT EXIT TO SR 162	2.64
R10.17	R10.36	SB	RT	W Willows UC 11-60	10.03
R10.382	R11.98	SB	RT	Boyd Overflow Br 11-63	84.37
R11.998	R12.39	SB	RT	S Fork Willow Cr 11-58	20.70
R12.431	R12.58	SB	RT	AT ENTER FROM CR 39	7.87
R12.599	R13.69	SB	RT	Wilson Cr Br 11-53	57.60
R13.85	R14.03	SB	RT	AT EXIT TO CR 39	9.50
R14.18	R14.45	SB	RT	AT ENTER FROM REST AREA	14.26
R14.62	R14.70	SB	RT	AT EXIT TO REST AREA	4.22
R14.85	R16.75	SB	RT	AT ENTER FROM CR 33	100.32
R16.90	R16.94	SB	RT	AT EXIT TO CR 33	2.11
R17.10	R17.49	SB	RT	Beg Walker Cr Br 11-65	20.59
R17.533	R20.00	SB	RT	END Walker Cr Br to the END	130.26
R0.00	R20.00	SB	LT	*SB LEFT SIDE MINUS BRIDGES (1013.76 ft)	1045.86
				TOTAL	3985.24

3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

SUMMARY OF QUANTITIES

Q-5

REVISED BY | DATE REVISED
MAHBOOBEH DEILAMI | BRIAN P. VIRAY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: FERMIN BARRIGA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 02-19-16 | DATE PLOTTED => 02-SEP-2016 | TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	33	77

REGISTERED ELECTRICAL ENGINEER 4-11-16 DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JASKARAN S. BOPARAI No. E15056 Exp. 12-31-17 ELECTRICAL STATE OF CALIFORNIA

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

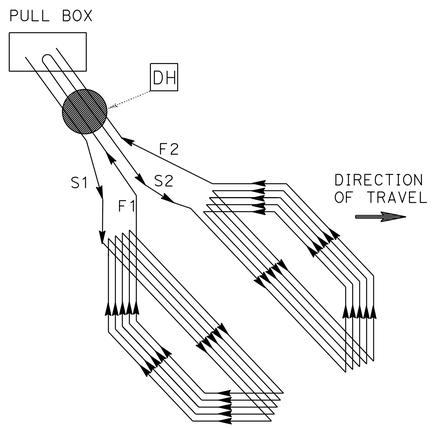
3

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. AB Exist INDUCTIVE LOOPS

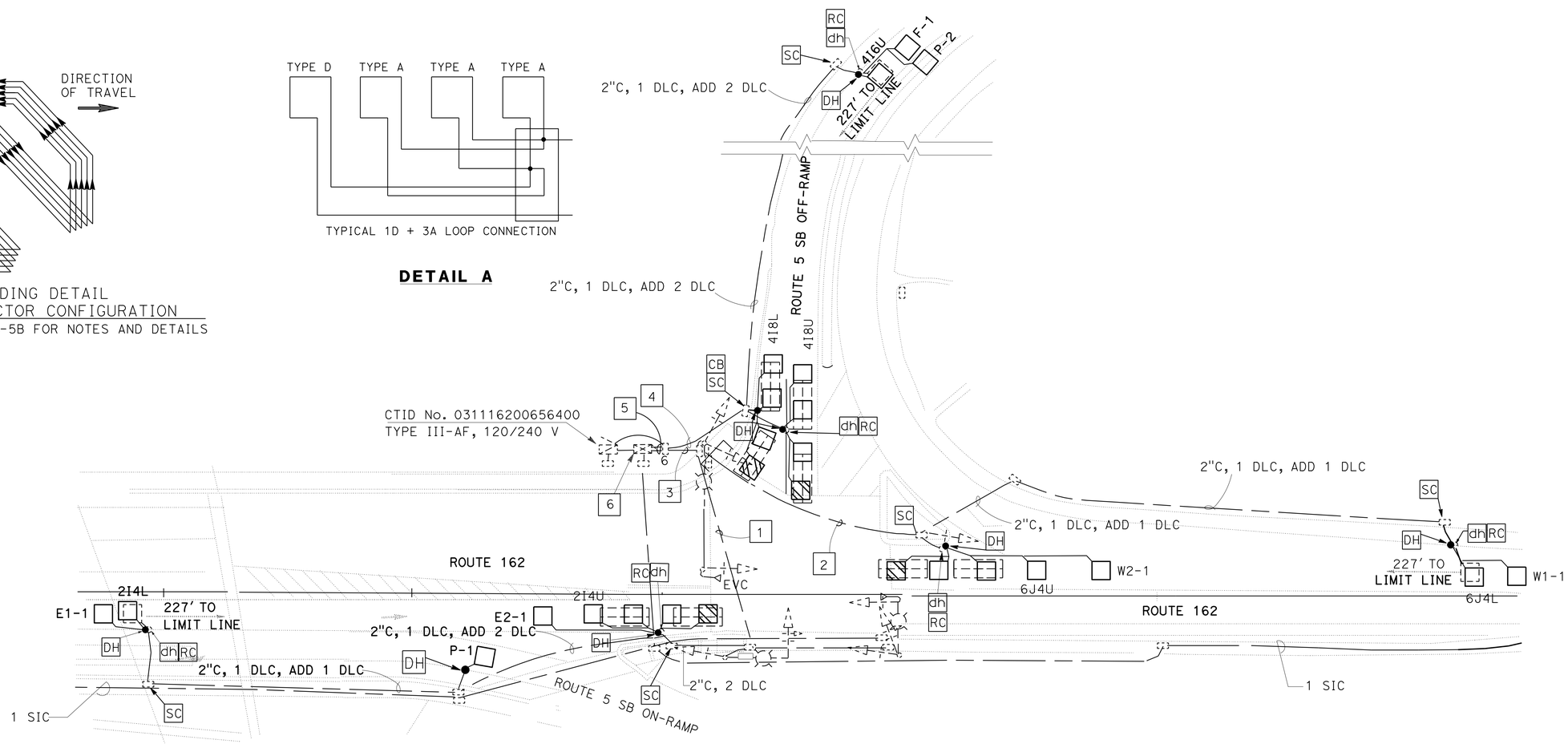
LEGEND (THIS SHEET ONLY):

1. Exist 3"C, 13#14, 4#8, 1 EVP CABLE, 2 DLC, ADD 3 DLC
2. Exist 3"C, 6#14, 2#8, 2 DLC, ADD 2 DLC
3. Exist 3"C, 31#14, 2#12, 6#8, 2 EVP CABLE, 7 DLC, ADD 5 DLC
4. Exist 2"C, 3 DLC, ADD 2 DLC
5. Exist 3"C, 31#14, 2#12, 2#8, 2 EVP CABLE, 7 DLC, ADD 7 DLC
6. Exist MODEL 332 CONTROLLER CABINET WITH BATTERY BACKUP SYSTEM. COIL 10' LENGTH OF NEW 7 DLC's IN THE CONTROLLER CABINET.



MODIFIED WINDING DETAIL
TYPE D LOOP DETECTOR CONFIGURATION
SEE STANDARD PLAN RSP ES-5B FOR NOTES AND DETAILS

DETAIL A



3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

INDUCTIVE LOOP DETECTOR

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR: MARY ANN HUDSPETH
CALCULATED-DESIGNED BY: JASKARAN S. BOPARAI
CHECKED BY
REVISED BY
DATE REVISED
YOUNG TON

LAST REVISION 08-31-16 | DATE PLOTTED => 02-SEP-2016 | TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	34	77

Jaskaran Singh Boparai 4-11-16
REGISTERED ELECTRICAL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

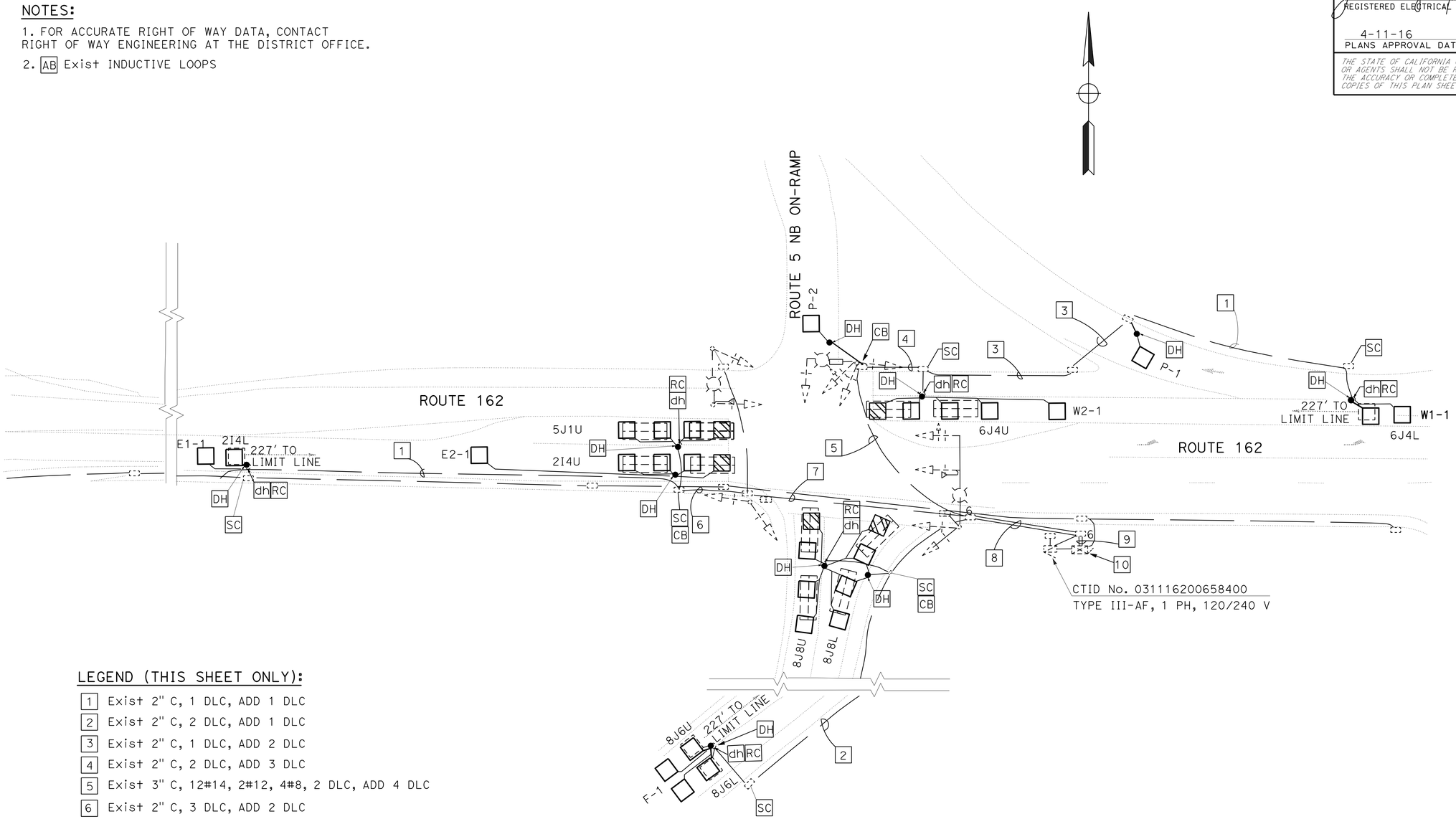
REGISTERED PROFESSIONAL ENGINEER
JASKARAN S. BOPARAI
No. E15056
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

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

3

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. AB Exist INDUCTIVE LOOPS



LEGEND (THIS SHEET ONLY):

1. Exist 2" C, 1 DLC, ADD 1 DLC
2. Exist 2" C, 2 DLC, ADD 1 DLC
3. Exist 2" C, 1 DLC, ADD 2 DLC
4. Exist 2" C, 2 DLC, ADD 3 DLC
5. Exist 3" C, 12#14, 2#12, 4#8, 2 DLC, ADD 4 DLC
6. Exist 2" C, 3 DLC, ADD 2 DLC
7. Exist 3" C, 16#14, 4#8, 3 DLC, ADD 2 DLC
8. Exist 2-3" C, 37#14, 2#12, 4#8, 2 EVP CABLES, 9 DLC, ADD 7 DLC
9. Exist 2-3" C, 37#14, 2#8, 2 EVP CABLES, 9 DLC, ADD 7 DLC
10. Exist MODEL 332 CONTROLLER CABINET WITH BATTERY BACKUP SYSTEM. COIL 10' OF NEW DLC'S IN CONTROLLER CABINET.

3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

INDUCTIVE LOOP DETECTOR

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: MARY ANN HUDSPETH
CALCULATED-DESIGNED BY: YOUNG TON
CHECKED BY: JASKARAN S. BOPARAI
REVISED BY
DATE REVISED

LAST REVISION 08-31-16
DATE PLOTTED => 02-SEP-2016
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	35	77

3

Jaskaran Singh Boparai 4-11-16
REGISTERED ELECTRICAL ENGINEER DATE

4-11-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JASKARAN S. BOPARAI
No. E15056
Exp. 12-31-17
ELECTRICAL
STATE OF CALIFORNIA

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

NOTE: ITEMS SHOWN IN TABLES ARE NOT SEPARATE PAY ITEMS, FOR INFORMATION ONLY

MODIFYING EXISTING ELECTRICAL SYSTEM

SHEET NO.	DESCRIPTION	DETECTOR HANDHOLE	LOOP TYPE(A)	LOOP 6'x14'
E-1	CS No. 345 BY Irr CANAL AND Br No. 11-57	2	8	
E-1	WILLOWS REST AREA (SB OFF RAMP)	2		2
E-1	WILLOWS REST AREA (NB OFF RAMP)	2		2

INDUCTIVE LOOP DETECTOR

SHEET NO.	DETECTOR HANDHOLE	LOOP TYPE(A)	LOOP TYPE(D)
E-2	8	22	4
E-3	8	25	5

3 REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016

ELECTRICAL QUANTITIES

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: MARY ANN HUDSPETH
CALCULATED-DESIGNED BY: JASKARAN S. BOPARAI
CHECKED BY:
REVISED BY:
DATE REVISED:

LAST REVISION 08-31-16
DATE PLOTTED => 02-SEP-2016
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	63A	77

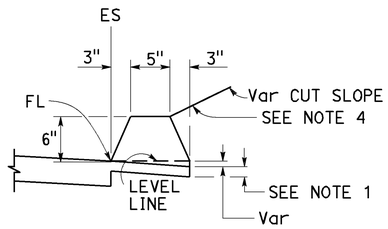
REGISTERED CIVIL ENGINEER

January 15, 2016
PLANS APPROVAL DATE

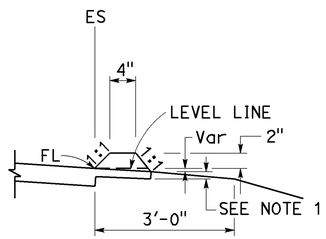
REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 3-31-16
CIVIL
STATE OF CALIFORNIA

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

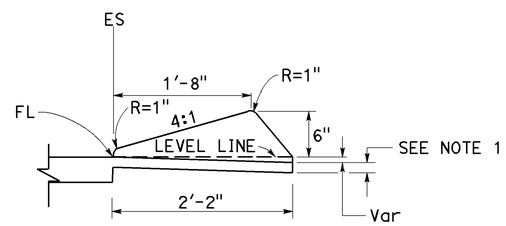
TO ACCOMPANY PLANS DATED 4-11-16



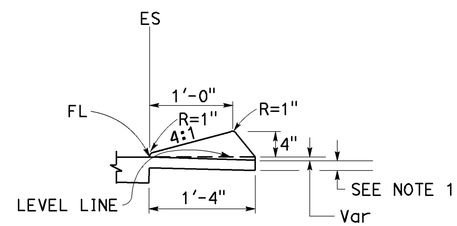
TYPE A
See Notes 3 and 5



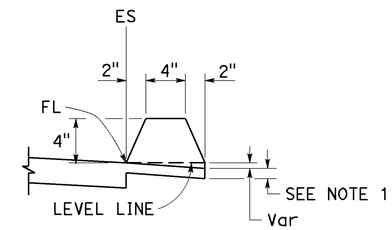
TYPE C



TYPE D

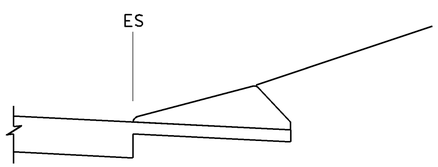


TYPE E

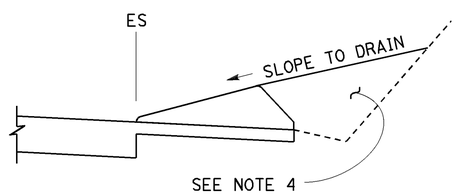


TYPE F
See Note 5

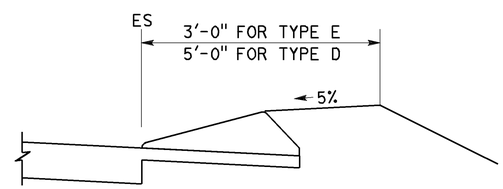
DIKES



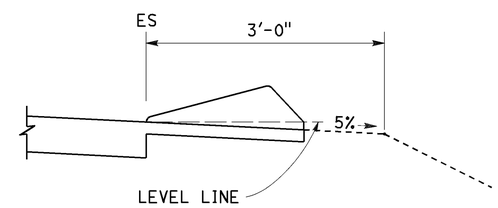
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type A or F dike, where dike is required with guardrail installations. See Revised Standard Plan RSP A77N4 for dike positioning details. See Revised Standard Plan RSP A77N3 for hinge point offsets with guardrail.

DIKE QUANTITIES

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

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JANUARY 15, 2016 SUPERSEDES RSP A87B DATED JULY 19, 2013 AND STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

3 **ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

11-17-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	5	R0.0/R20.0	64	77

REGISTERED CIVIL ENGINEER

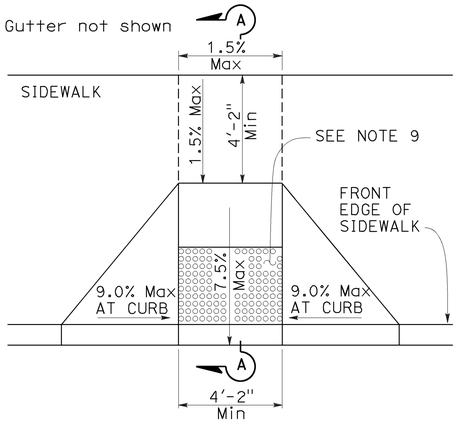
July 15, 2016
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-18 CIVIL STATE OF CALIFORNIA

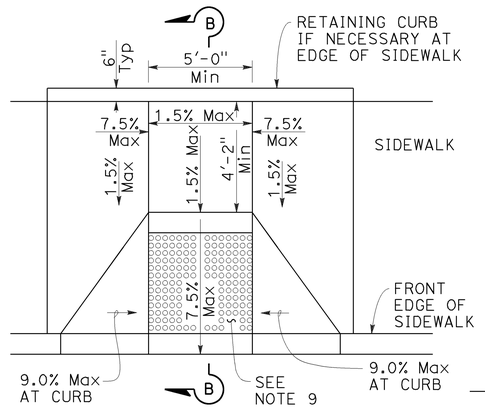
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 4-11-16

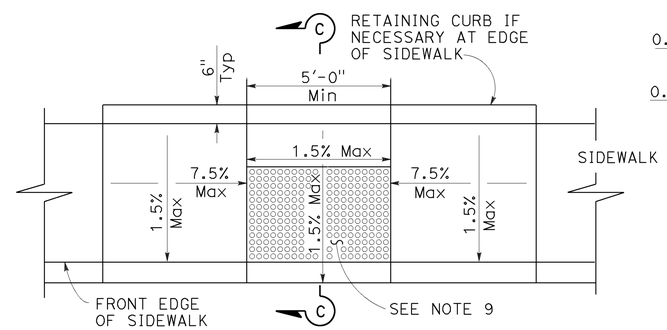
2010 REVISED STANDARD PLAN RSP A88A



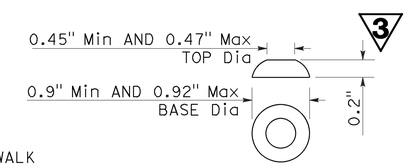
CASE A



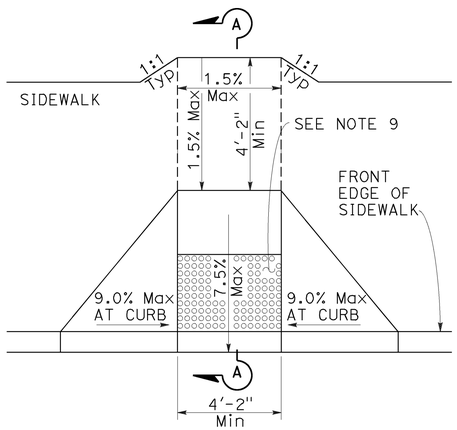
CASE B



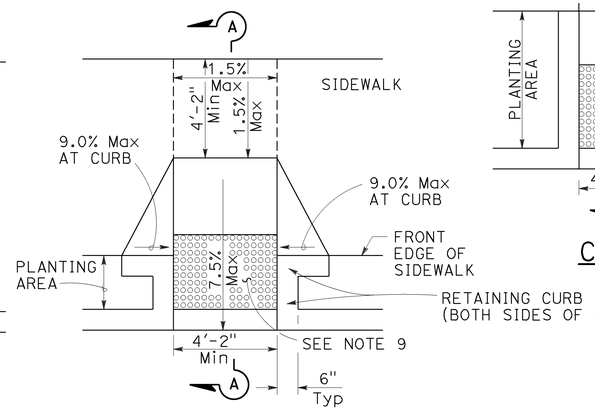
CASE C



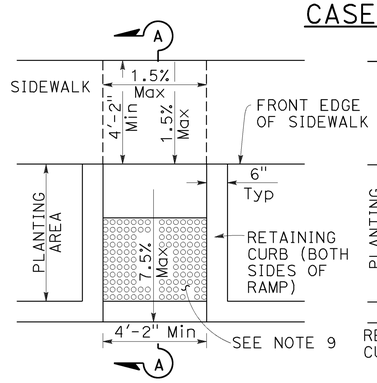
RAISED TRUNCATED DOME



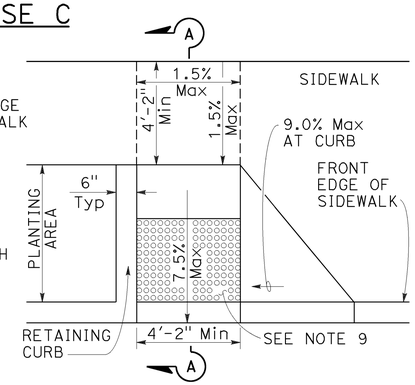
CASE D



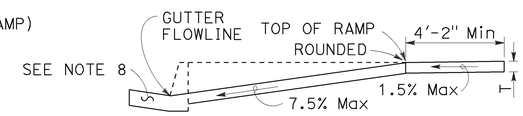
CASE E



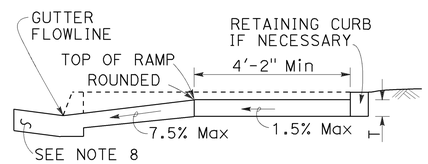
CASE F



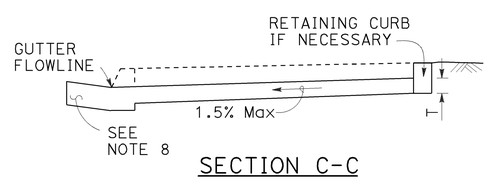
CASE G
See Note 4



SECTION A-A



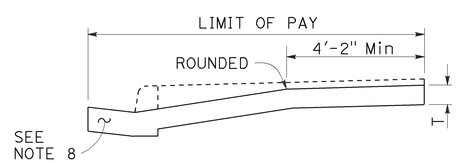
SECTION B-B
Depress entire sidewalk as required



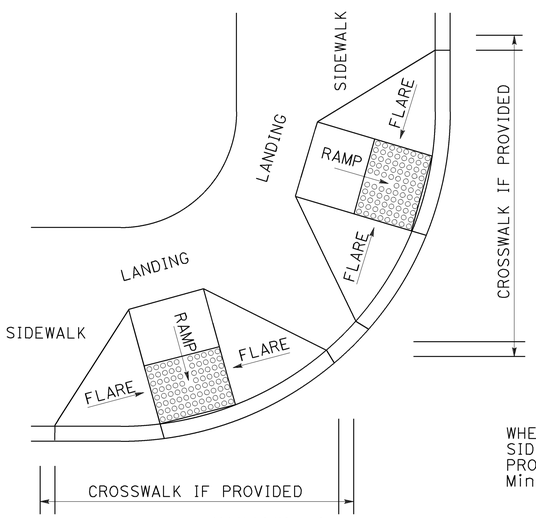
SECTION C-C

RAISED TRUNCATED DOME PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE
See Note 9

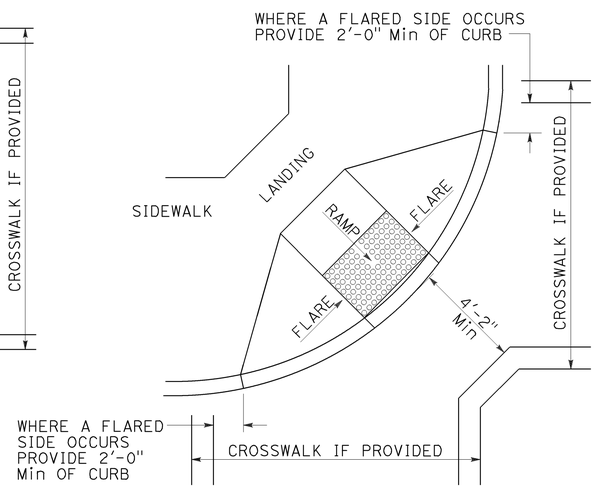


RETROFIT PAY LIMITS
Existing curb and sidewalk



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION
See Note 1



DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION
See Notes 1 and 3

NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
9. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
10. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
11. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
12. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

RSP A88A DATED JULY 15, 2016 SUPERSEDES RSP A88A DATED JULY 3, 2015, RSP A88A DATED MARCH 21, 2014 AND RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

3 **REPLACED PER ADDENDUM No. 3 DATED SEPTEMBER 6, 2016**

3-30-16