Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	7	268

REGISTERED CIVIL ENGINEER 4/16/15 DATE

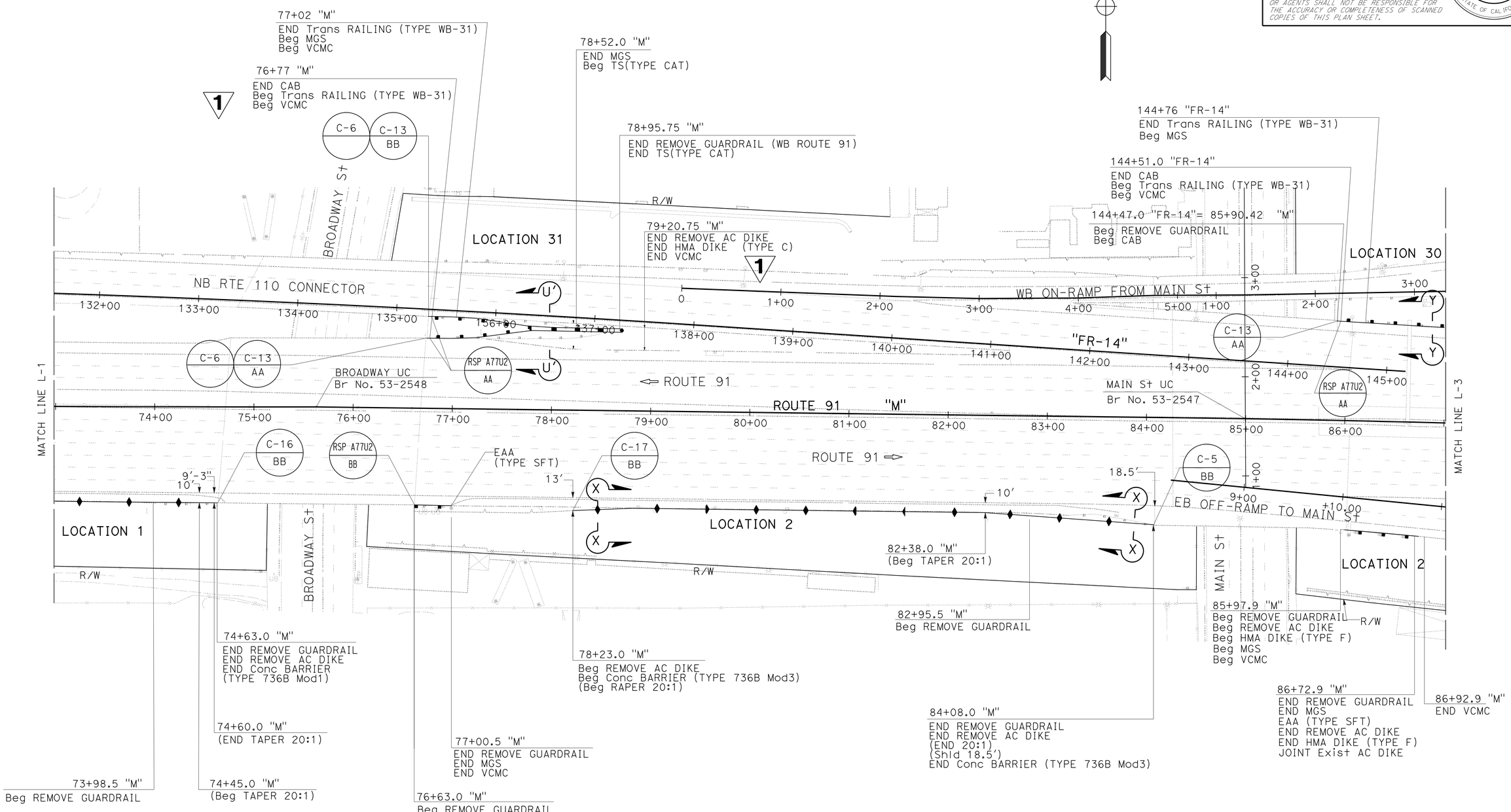
7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 CIVIL STATE OF CALIFORNIA

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

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR LOCATION 31 MGS LAYOUT DETAIL, SEE SHEET No. C-6.



LOCATION 2, 31 AND 30 LAYOUT

SCALE: 1" = 50'

1 REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY: MARISA G. MANDOCDOC
CHECKED BY: RICHARD B. KHAW
REVISED BY: RK
DATE REVISED: 5/8/15

S:\design\29010\traffic\TrafficDesign(Civil)\Addendum\0729010ea002.dgn

LAST REVISION DATE PLOTTED => 10-NOV-2015
TIME PLOTTED => 08:31

BORDER LAST REVISED 7/2/2010 | USERNAME => s116095 | DGN FILE => 0729010ea002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2124 | PROJECT NUMBER & PHASE 07120000301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	34	268

Richard B Khaw 4/16/15
REGISTERED CIVIL ENGINEER DATE

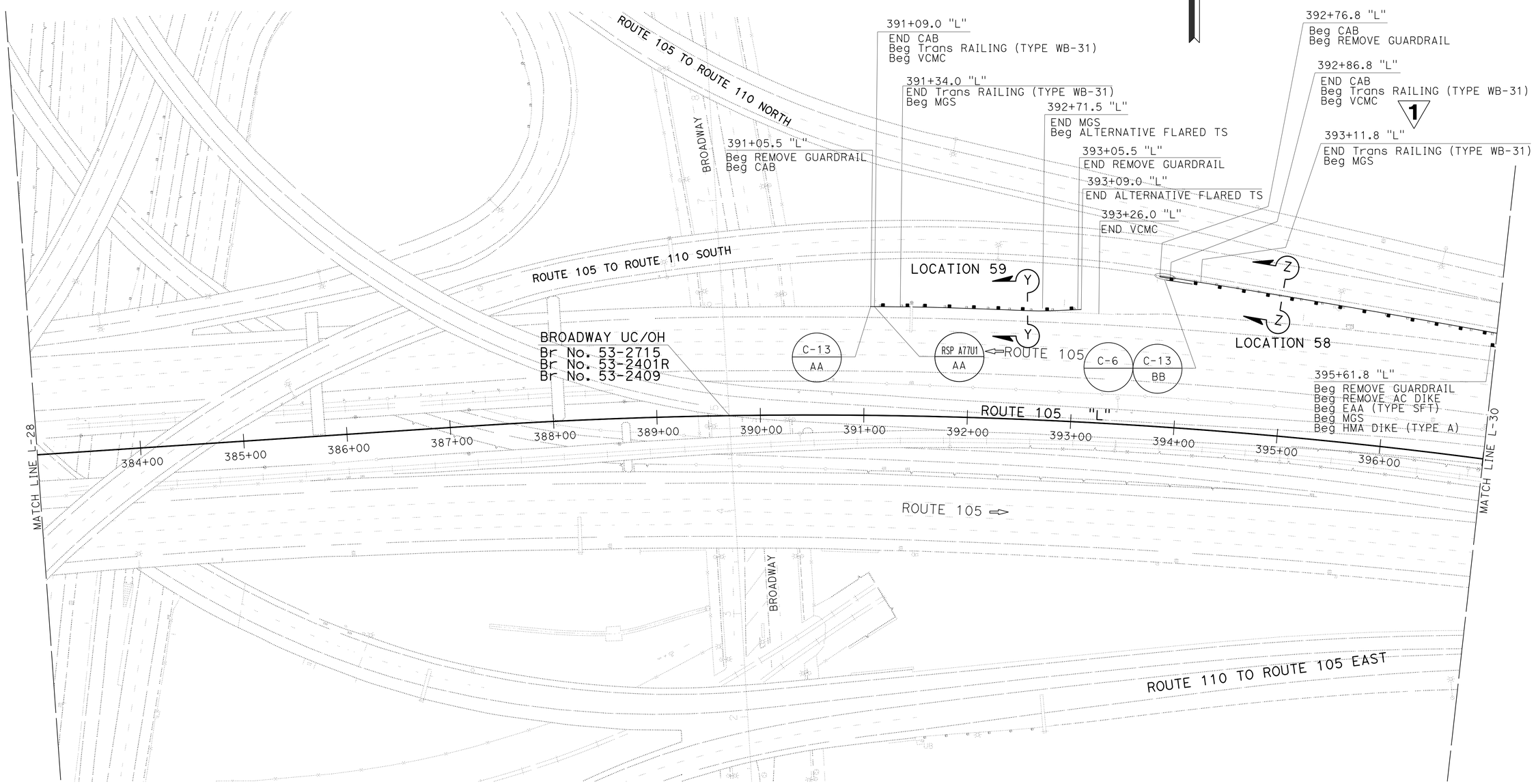
7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 CIVIL STATE OF CALIFORNIA

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

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR LOCATION 58 MGS LAYOUT PLAN AND DETAIL, SEE SHEET No. C-6.



LOCATION 58 AND 59
LAYOUT
SCALE: 1" = 50'

1 **REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015**

L-29

REVISED BY	DATE REVISED
RK	5/8/15

CALCULATED-DESIGNED BY: MARISA G. MANDOCDOC
CHECKED BY: RICHARD B. KHAW
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY

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

S:\design\29010\traffic\TrafficDesign(Civil)\Addendum\0729010ea029.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 10-NOV-2015 | TIME PLOTTED => 08:31

BORDER LAST REVISED 7/2/2010 | USERNAME => s116095 | DGN FILE => 0729010ea029.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2124 | PROJECT NUMBER & PHASE 07120000301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	35	268

REGISTERED CIVIL ENGINEER 4/16/15 DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 CIVIL STATE OF CALIFORNIA

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

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR LOCATION 58 MGS LAYOUT PLAN AND DETAIL, SEE SHEET No. C-6.

LOCATION 57 AND 58
LAYOUT
SCALE: 1" = 50'

1 **REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015**

L-30

REVISED BY	DATE REVISED
RK	5/8/15

CALCULATED-DESIGNED BY: MARISA G. MANDOCDOC
CHECKED BY: RICHARD B. KHAW
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

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LAST REVISION 00-00-00 | DATE PLOTTED => 10-NOV-2015 | TIME PLOTTED => 08:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	49	268

REGISTERED CIVIL ENGINEER — DATE: 4/16/15

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — RICHARD B. KHAW — No. C80736 — Exp. 3/31/17 — CIVIL — STATE OF CALIFORNIA

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

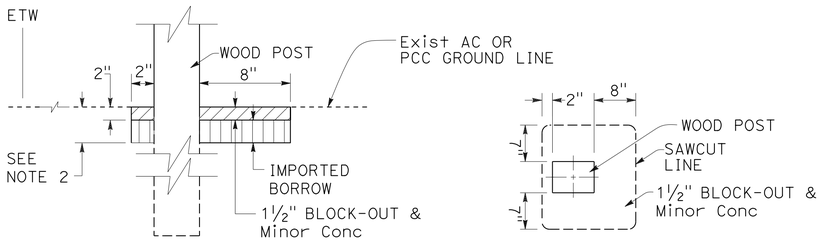
NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. REMOVE AC Exist Pvmt FULL THICKNESS (OR STRUCTURAL SECTION) INCLUDING BASE AND SUB-BASE. FILL UP WITH IMPORTED BORROW.

TYPICAL STRUCTURAL SECTION

LA-91 [3]
- 0.95' JPCP
- --- BASE BOND BREAKER
- 0.35' LCB
- 0.70' CLASS 3 AB

LA-105 [4]
- 0.85' JPCP
- --- BASE BOND BREAKER
- 0.30' CEMENT TREATED PERMEABLE BASE
- 0.30' LCB
- 0.40' CLASS 3 AB



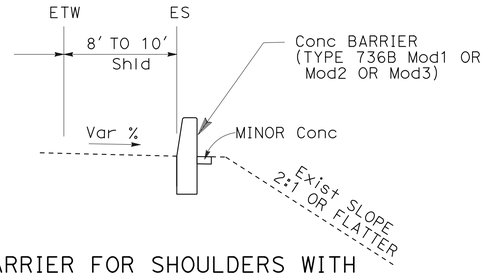
ELEVATION — PLAN

1

ROADWAY EXCAVATION
VCMC (SEE DETAIL RSPs A77N5 TO A77N10)

SECTION U-U

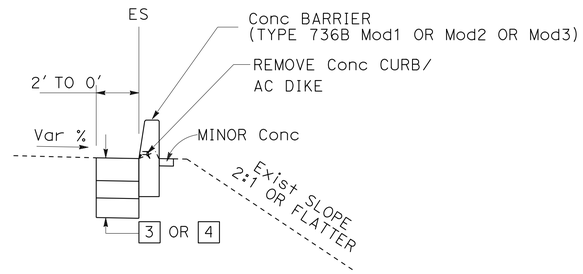
LOCATION (31) (58) (60)



CONCRETE BARRIER FOR SHOULDERS WITH TYPE A1, B1 CURB OR AC DIKE

SECTION X-X

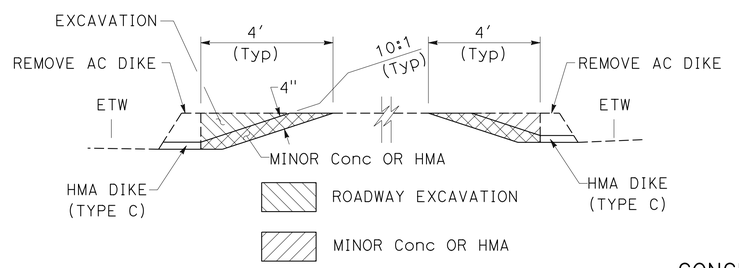
LOCATION (1) (2) (3) (4) (5) (12) (13) (15) (17) (18) (23) (27) (28) (34)



CONCRETE BARRIER FOR SHOULDERS WITH NO CURBS/DIKES

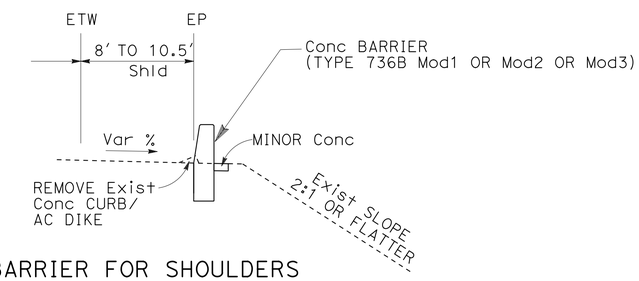
SECTION W-W

LOCATION (3) (4) (5) (18) (19) (27) (28)



SECTION U'-U'

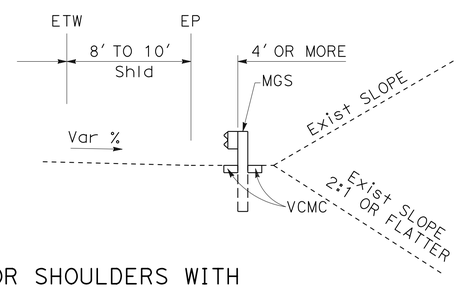
LOCATION (31) (58) (60)



CONCRETE BARRIER FOR SHOULDERS

SECTION W'-W'

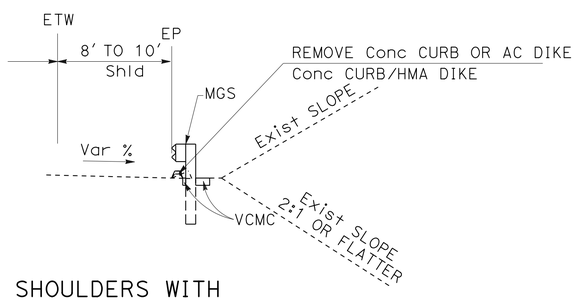
LOCATION (16) (34) (50) (52)



MGS FOR SHOULDERS WITH WITH NO CURB/DIKE

SECTION Y'-Y'

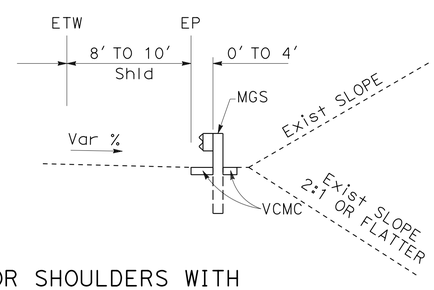
LOCATION (9) (24) (25)



MGS FOR SHOULDERS WITH TYPE A1, B1 CURB OR AC DIKE

SECTION Z-Z

LOCATION (10) (14) (19) (20) (21) (31) (32) (33) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (50) (51) (53) (54) (55) (56) (57) (58) (60) (61) (62) (63) (65) (67)



MGS FOR SHOULDERS WITH WITH NO CURB/DIKE

SECTION Y-Y

LOCATION (6) (7) (8) (11) (22) (29) (30) (33) (36) (47) (59) (66)

CONSTRUCTION DETAIL
NO SCALE

1 **REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015**

C-3

REVISED BY	DATE REVISED
RK	5/8/15

CALCULATED-DESIGNED BY: MARISA G. MANDOCDOC
CHECKED BY: RICHARD B. KHAW
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — TRAFFIC DESIGN

S:\design\290101\traffic\TrafficDesign(Civil)\Addendum\0729010ga003.dgn

LAST REVISION 00-00-00 — DATE PLOTTED => 10-NOV-2015 — TIME PLOTTED => 08:31

NOTE:

1. JOINTS ARE STANDARD JOINT TYPE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	84	268

REGISTERED CIVIL ENGINEER 04-07-15 DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH W. SAWTELLE No. 60110 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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

TRANSYSTEMS
6 HUTTON CENTRE DRIVE,
SUITE 1250
SANTA ANA, CA 92707

SUMMARY OF DRAINAGE AND ROADWAY QUANTITIES

DRAINAGE SYSTEM No.	DRAINAGE UNIT	HEIGHT OF INLET (N)	REMOVE Conc	RESET ROADSIDE SIGN	PLACE HOT MIX ASPHALT DIKE (TYPE A)	CAP INLET	MODIFY INLET	18" ALTERNATIVE PIPE CULVERT	MINOR CONCRETE (Misc Const)(Conc APRON)	Misc IRON AND STEEL*	36" ALTERNATIVE PIPE INLET	DITCH EXCAVATION	DITCH EXCAVATION (TYPE Z-2) (AERIALLY DEPOSITED LEAD)	IMPORTED BORROW	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	ROCK SLOPE PROTECTION (FACING, METHOD B)	HOT MIX ASPHALT (TYPE A)	PLACE HOT MIX ASPHALT (Misc AREAS)	REMOVE Conc CURB	REMOVE ASPHALT CONCRETE DIKE	DESCRIPTION	STATION	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
		FT	CY	EA	LF	EA	EA	LF	CY	LB	LF	CY	CY	CY	SQYD	CY	TON	SQYD	LF	LF					
1	a																0.5	3.0			HMA OSD	29.05′ R+ "NR-2" 74+45.60	D-1	1	a
	b														5.4	1.2					FACING RSP	36′ R+ "NR-2" 74+27.40			b
	c											36									VEGETATED BIOSWALE	36′ R+ "NR-2" 72+72.52 TO 36′ R+ "NR-2" 74+27.40			c
	d	3.5								215	3.5										36" API	36′ R+ "NR-2" 72+77.28			d
	e								0.3												Conc APRON	36′ R+ "NR-2" 72+82.05			e
	f							6													18" APC				f
	g						1														MODIFY INLET	29.24′ R+ "NR-2" 72+73.53			g
				1																152	REMOVE AC DIKE	29′ R+ "NR-2" 72+72 TO 29′ R+ "NR-2" 74+46			
																					RESET ROADSIDE SIGN	34′ R+ "NR-2" 73+65			
2												42									VEGETATED BIOSWALE	28.19′ L+ "NR-2" 74+91.46 TO 8.07′ L+ "NR-2" 77+62.94	D-1	2	
			2.7																		REMOVE Conc	9′ L+ "NR-2" 76+52	D-1		
3	a																0.8	5.0			HMA OSD	24.65′ R+ "LB-2" 15+50.29	D-2	3	a
	b														5.4	1.2					FACING RSP	37.85′ R+ "LB-2" 15+21.56			b
	c												640	160							VEGETATED BIOSWALE	43.98′ R+ "LB-2" 13+61.17 TO 37.85′ R+ "LB-2" 15+21.56			c
	d	3.0								215	3.0										36" API	43.80′ R+ "LB-2" 13+65.16			d
	e								0.3												Conc APRON	43.62′ R+ "LB-2" 13+69.16			e
	f							12													18" APC				f
	g						1														MODIFY INLET	31.74′ R+ "LB-2" 13+61.09			g
																				185	REMOVE AC DIKE	31′ R+ "LB-2" 13+60 TO 24.6′ R+ "LB-2" 15+50			
SHEET TOTAL			2.7	1	0	0	2	18	0.6	430	6.5	78	640	160	10.8	2.4	1.3	8	0	337					

(N): NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* SEE SHEET DQ-3

1 REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015

APPROVED FOR DRAINAGE WORK ONLY

DRAINAGE AND ROADWAY QUANTITIES

DQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: JAMAL SALMAN
CALCULATED-DESIGNED BY: CARL SOSA
CHECKED BY: JOE SAWTELLE
REVISED BY: TD
DATE REVISED: 5/13/2015

LAST REVISION 00-00-00
DATE PLOTTED => 10-NOV-2015
TIME PLOTTED => 08:31

NOTE:

1. JOINTS ARE STANDARD JOINT TYPE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	85	268

REGISTERED CIVIL ENGINEER 04-07-15 DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH W. SAWTELLE No. 60110 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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

TRANSYSTEMS
6 HUTTON CENTRE DRIVE,
SUITE 1250
SANTA ANA, CA 92707

SUMMARY OF DRAINAGE AND ROADWAY QUANTITIES

DRAINAGE SYSTEM No.	DRAINAGE UNIT	HEIGHT OF INLET (N) FT	REMOVE Conc CY	RESET ROADSIDE SIGN EA	PLACE HOT MIX ASPHALT DIKE (TYPE A) LF	CAP INLET EA	MODIFY INLET EA	18" ALTERNATIVE PIPE CULVERT LF	MINOR CONCRETE (Misc Const)(Conc APRON) CY	Misc IRON AND STEEL* LB	36" ALTERNATIVE PIPE INLET LF	DITCH EXCAVATION CY	DITCH EXCAVATION (TYPE Z-2) (AERIALLY DEPOSITED LEAD) CY	IMPORTED BORROW CY	ROCK SLOPE PROTECTION FABRIC (CLASS 8) SQYD	ROCK SLOPE PROTECTION (FACING, METHOD B) CY	HOT MIX ASPHALT (TYPE A) TON	PLACE HOT MIX ASPHALT (Misc AREAS) SQYD	REMOVE Conc CURB LF	REMOVE ASPHALT CONCRETE DIKE LF	DESCRIPTION	STATION	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
4	a																0.5	2.0			HMA OSD	48.41′ R+ "C-4" 29+94.66	D-3	4	a
	b														5.4	1.2					FACING RSP	53′ R+ "C-4" 30+17.08			b
	c											41									VEGETATED BIOSWALE	53′ R+ "C-4" 30+17.08 TO 53′ R+ 31+21.48			c
	d	3.5								215	3.5										36" API	53′ R+ "C-4" 31+17.00			d
	e								0.3												Conc APRON	53′ R+ "C-4" 31+12.51			e
	f							4													18" APC				f
	g						1														MODIFY INLET	48.45′ R+ "C-4" 31+18.94			g
						1															CAP INLET	44.47′ R+ "C-4" 29+89.79			
																				8	REMOVE AC DIKE	48.5′ R+ "C-4" 29+90 TO 48.5′ R+ "C-4" 30+00.50			
																			84		REMOVE Conc CURB	48.5′ R+ "C-4" 30+00.50 TO 48.4′ "C-4" 31+21			
				1																	RESET ROADSIDE SIGN	55.20′ R+ "C-4" 30+51.80			
					8																PLACE HMA DIKE (TYPE A)	48.5′ R+ "C-4" 29+90 TO 48.5′ R+ "C-4" 30+00.50			
5	a																0.6	4.0			HMA OSD	31.97′ R+ "C-5" 30+69.22	D-3	5	a
	b														5.4	1.2					FACING RSP	40.50′ R+ "C-5" 30+47.87			b
	c											78									VEGETATED BIOSWALE	40.50′ R+ "C-5" 29+32.06 TO 40.50′ R+ "C-5" 30+47.87			c
	d	3.5								215	3.5										36" API	40.50′ R+ "C-5" 29+36.72			d
	e								0.3												Conc APRON	40.50′ R+ "C-5" 29+42.04			e
	f							8													18" AP				f
	g						1														MODIFY INLET	32.08′ R+ "C-5" 29+33.69			g
																				110	REMOVE AC DIKE	32′ R+ "C-5" 29+32 TO 32′ R+ "C-5" 30+69			
SHEET TOTAL			0	1	8	1	2	12	0.6	430	7	119	0	0	10.8	2.4	1.1	6	84	118					

(N): NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* SEE SHEET DQ-3

1 **REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015**

APPROVED FOR DRAINAGE WORK ONLY

DRAINAGE AND ROADWAY QUANTITIES

DQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: JAMAL SALMAN
CALCULATED-DESIGNED BY: CARL SOSA
CHECKED BY: JOE SAWTELLE
REVISED BY: TD
DATE REVISED: 5/13/2015

LAST REVISION 00-00-00
DATE PLOTTED => 10-NOV-2015
TIME PLOTTED => 08:31

NOTE:

1. JOINTS ARE STANDARD JOINT TYPE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	86	268

REGISTERED CIVIL ENGINEER 04-07-15 DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH W. SAWTELLE No. 60110 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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

TRANSYSTEMS
6 HUTTON CENTRE DRIVE,
SUITE 1250
SANTA ANA, CA 92707

SUMMARY OF DRAINAGE AND ROADWAY QUANTITIES

	DRAINAGE SYSTEM No.	DRAINAGE UNIT	HEIGHT OF INLET (N)	REMOVE Conc	RESET ROADSIDE SIGN	PLACE HOT MIX ASPHALT DIKE (TYPE A)	CAP INLET	MODIFY INLET	18" ALTERNATIVE PIPE CULVERT	MINOR CONCRETE (Misc Const)(Conc APRON)	Misc IRON AND STEEL*	36" ALTERNATIVE PIPE INLET	DITCH EXCAVATION	DITCH EXCAVATION (TYPE Z-2) (AERIALLY DEPOSITED LEAD)	IMPORTED BORROW	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	ROCK SLOPE PROTECTION (FACING, METHOD B)	HOT MIX ASPHALT (TYPE A)	PLACE HOT MIX ASPHALT (Misc AREAS)	REMOVE Conc CURB	REMOVE ASPHALT CONCRETE DIKE	DESCRIPTION	STATION	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
													1	1												
			FT	CY	EA	LF	EA	EA	LF	CY	LB	LF	CY	CY	CY	SQYD	CY	TON	SQYD	LF	LF					
6													168									VEGETATED BIOSWALE	148.16′ Lt "L" LINE 585+08.24 TO 155.96′ Lt "L" LINE 587+44.13	D-4	6	
													21									GRADE TO DRAIN		D-4		
7													80									VEGETATED BIOSWALE	154.97′ Lt "L" LINE 589+07.71 TO 163.76′ Lt "L" LINE 590+57.50	D-4	7	
													89									GRADE TO DRAIN		D-4		
SHEET TOTAL				0	0	0	0	0	0	0	0	0	358	0	0	0	0	0	0	0	0					
GRAND TOTAL				#2.7	2	# 8	1	4	30	1.2	860	13.5	555	640	# 160	21.6	4.8	#2.4	14	84	#455					

(N): NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* (TYPE 36RX FRAME AND GRATE)
\# SEE SUMMARY OF QUANTITIES SHEET Q-3 FOR GRAND TOTAL

1 **REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015**

APPROVED FOR DRAINAGE WORK ONLY

DRAINAGE AND ROADWAY QUANTITIES

DQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: JAMAL SALMAN
CALCULATED-DESIGNED BY: CARL SOSA
CHECKED BY: JOE SAWTELLE
REVISED BY: TD
DATE REVISED: 5/13/2015

LAST REVISION 00-00-00
DATE PLOTTED => 10-NOV-2015
TIME PLOTTED => 08:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	156	268

Richard B Khaw 4/16/15
REGISTERED CIVIL ENGINEER DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 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.

TRAFFIC HANDLING QUANTITIES

SHEET NO.	STATION	ROUTE	DIRECTION	TEMPORARY RAILING (TYPE K) LF	TEMPORARY CRASH CUSHION (TYPE ABSORB 350) EA	TEMPORARY CRASH CUSHION EA	CHANNELIZERS (SURFACE MOUNTED) EA	REMARKS
TH-1, TH-2	66+80 "M" TO 84+08 "M"	91	EB	1730	1		14	
TH-3	89+49.8 "M" TO 101+27.5 "M" 13+51.0 "FR-2" TO 18+36.35 "FR-2"	91	EB	1665		21	28	
TH-3, TH-4, TH-5	72+64.0 "NR-2" TO 120+29 "M" 74+71.0 "NR-2" TO 77+66.0 "NR-2"	91	EB	3060	2			
TH-5, TH-6	123+09.6 TO 134+19 "M"	91	WB	1120		21	15	
TH-6, TH-7	138+12 TO 151+34 "M"	91	WB	1340	1		10	
TH-8	165+16.3"M" TO 172+02 "M"	91	WB	690	1		14	
TH-10	205+46 TO 210+28 "M"	91	WB	500		21	14	
TH-10	205+73.0 "M" TO 210+64 "M"	91	EB	500	1		7	
TH-10, TH-11	206+29 "M" TO 225+87 "M"	91	EB	1960		11	9	
TH-10, TH-11, TH-12	215+24.8 "M" TO 233+80 "M"	91	WB	1860	1		10	
TH-12	234+43 TO 240+24 "M"	91	WB	600	1		14	
TH-12	239+34.0 "M" TO 240+73 "M"	91	EB	880	1		10	
TH-13, TH-14	221+14 TO 236+93 "L"	105	EB	1580		21	14	
TH-13, TH-14	29+00 "C-4" TO 30+20 "C-4"	105	EB	120	1		10	
TH-14	29+30 "C-5 TO 30+50 "C-5"	105	EB	120	1		10	
TH-15	569+20.50 TO 576+76.20 "L"	105	WB	760	1		14	
TH-16, TH-17	585+94 "L" TO 6+03.75 "NR-4"	105	WB	800	1		10	
TH-18	VARIES	91 AND 105	EB AND WB	780	25		600	~~SEE TABLE 1, SHEET No.TH-18~~
TOTAL				20,065	38	95	803	

1

1 REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015

TRAFFIC HANDLING QUANTITIES

APPROVED FOR TRAFFIC HANDLING WORK ONLY

THQ-1

MARISA G. MANDOCDOC — CALCULATED-DESIGNED BY
RICHARD B. KHAW — CHECKED BY
MGM — REVISED BY
5/8/15 — DATE REVISED
MOHAMMED CHOWDHURY — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

S:\design\290101\traffic\TrafficDesign(Civil)\Addendum\0729010mf001.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 10-NOV-2015 | TIME PLOTTED => 08:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	157	268

Richard B Khaw 4/16/15
REGISTERED CIVIL ENGINEER DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 CIVIL STATE OF CALIFORNIA

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SUMMARY OF QUANTITIES

LOCATION No.	DIRECTION	ROUTE	SHEET No.	TEMPORARY DRAINAGE INLET PROTECTION	TREATED WOOD WASTE	REMOVE GUARDRAIL	REMOVE ASPHALT CONCRETE DIKE	ROADWAY EXCAVATION (1)	CEMENT TREATED PERMEABLE BASE	CLASS 3 AGGREGATE BASE	LEAN CONCRETE BASE	BASE BOND BREAKER	JOINTED PLAIN CONCRETE PAVEMENT	MINOR CONCRETE (MINOR STRUCTURE)	VEGETATION CONTROL (MINOR CONCRETE) (1)	HOT MIX ASPHALT (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE C)	PLACE HOT MIX ASPHALT DIKE (TYPE F)	GUARD RAILING DELINEATOR	CONCRETE BARRIER MARKER (N)	MIDWEST GUARDRAIL SYSTEM (8' POST)	MIDWEST GUARDRAIL SYSTEM (7' WOOD POST)	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	TRANSITION RAILING (TYPE WB-31)	TERMINAL SYSTEM (TYPE CAT)	END CAP (TYPE A)	BURIED POST END ANCHOR (N)	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	CRASH CUSHION (SCI 100GM)	CRASH CUSHION (SCI 70 GM)	CONCRETE BARRIER (TYPE 736B Mod1)	CONCRETE BARRIER (TYPE 736B Mod2)	CONCRETE BARRIER (TYPE 736B Mod3)	REMARKS
				EA	LB	LF	LF	CY	CY	CY	CY	SQYD	CY	CY	SQYD	TON	LF	LF	LF	EA	EA	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	
1	EB	91	L-1/2	1	2520	150.00	783.0			40.6	20.30	174.0	55.10	7.25							26												783			
2	EB	91	L-2	4	1470	87.50	585.0			30.3	15.17	130.0	41.17	5.42	53.9	1.0			75	5	20			112.50					2						585	
3	EB	91	L-3/4	1	3150	187.50	501.0			53.8	26.9	356.5	73.01	23.41							53											1			1605	
4	EB	91	L-3/4	1	1050	62.50	1308.2			71.6	35.81	359.7	97.20	21.10							54												1	1322	297		
5	EB	91	L-5	1	1470	87.50	15.0			26.2	13.12	112.4	35.61	4.69							17															506	
6	EB	91	L-7	1	1260	75.00									43.5					2				37.50					1		1						
7	EB	91	L-10		1680	100.00									52.9					3				62.50					1		1						
8	EB	91	L-11		2100	125.00									59.0					6				137.50				1	1								
9	EB	91	L-12	1	1050	62.50									36.4					1				25.00					1		1						
10	EB	91	L-14	4	19950	1187.5	1217.0								484.6	16.1		78.13	1135.1	43				1075.00	2		2			1							
11	EB	91	L-15		7140	425.00									193.2					16		25		375.00	1		1			1							
12	EB	91	L-16	2	8400	500.00	491.0			25.5	12.73	109.1	34.55	4.55							16														491	
13	EB	91	L-16/17	8	2570	150.00	1958.0			101.5	50.76	435.1	137.79	24.24							65												1		1958	
14	EB	91	L-17/18		10920	650.00	656.4	1.11						5.19	262.9	8.6			646.4	25			625		1		1										
15	EB	91	L-18		1260	75.00	361.0			17.9	8.97	76.9	24.35	9.31							12												1		346	
16	WB	91	L-18	8			581.0							5.38							19														581	
17	WB	91	L-17/18	1	1260	75.00	661.5			33.4	16.72	143.3	45.39	12.08							22												1		645	
18	WB	91	L-16/17	3	3885	112.5	191.2			52.2	26.11	223.8	70.87	9.33							34														1007	
19	WB	91	L-16	5	1260	75.00	502.0							4.46							16											1			482	
20	WB	91	L-15		1680	100.00	100.0								49.2	1.3			98	2				50.00					1	1						
21	WB	91	L-14		7560	450.00	475.0								189.9	6.0		62.5	412.5	16				387.50	1		1				1					
22	WB	91	L-13/14		2100	125.00									55.3					2				50.00	1		1			1						
23	WB	91	L-13	1			706.7			35.6	17.78	152.4	48.25	6.35							23													386		300	
24	WB	91	L-12		1050	62.50									33.6					1				25.00					1		1						
25	WB	91	L-9		1680	100.00									46.8					3				62.50					1		1						
26	WB	91	L-7/8	1	2100	125.00									61.8					8				212.50				1	1								
27	WB	91	L-6/7		21840	1300.00	895.0			68.5	34.27	293.7	93.03	20.79							44											1			1322	
28	WB	91	L-5/6	1	1050	62.50	1001.0			57.5	28.76	246.5	78.07	18.82							37											1			1109	
29	WB	91	L-5		1050	62.50		2.17						4.71	32.3										1		1				1						
30	WB	91	L-2/3		3990	237.5		0.67						1.26	159.5					12				300.00	1		1			1							
31	WB	91	L-2	2	5460	325.00	445.0	4.21						2.52	17.8	5.5		137.5		10				250.00	2	1	2										
32	WB	91	L-1	1	4830	287.50	315.0	4.50						8.49	113.7	3.5		62.5	225	8				200.00	1		1				1						
SUB-TOTAL				47	126,785	7,425.0	13,749	12.66		614.6	307.4	2,813.4	834.39	199.35	1,946.3	42.0		340.63	2592.0	163	458	25	625	3,362.50	11	1	11	2	10	5	8	4	4	2,491	297	10,937	

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

(1) REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015

SUMMARY OF QUANTITIES

Q-1

MARISA G. MANDOCDOC	REVISED BY	RK	
RICHARD B. KHAW	DATE REVISED	5/8/15	
CALCULATED-DESIGNED BY			
CHECKED BY			
FUNCTIONAL SUPERVISOR			
MOHAMMED CHOWDHURY			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

S:\design\29010\traffic\TrafficDesign(Civil)\Addendum\0729010pa001.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 10-NOV-2015 | TIME PLOTTED => 08:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	158	268

RichardBKhaw 4/16/15
REGISTERED CIVIL ENGINEER DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 CIVIL STATE OF CALIFORNIA

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SUMMARY OF QUANTITIES

LOCATION No.	DIRECTION	ROUTE	SHEET No.	TEMPORARY DRAINAGE INLET PROTECTION	TREATED WOOD WASTE	REMOVE GUARDRAIL	REMOVE ASPHALT CONCRETE DIKE	ROADWAY EXCAVATION (1)	CEMENT TREATED PERMEABLE BASE	CLASS 3 AGGREGATE BASE	LEAN CONCRETE BASE	BASE BOND BREAKER	JOINTED PLAIN CONCRETE PAVEMENT	MINOR CONCRETE (MINOR STRUCTURE)	VEGETATION CONTROL (MINOR CONCRETE) (1)	HOT MIX ASPHALT (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE C)	PLACE HOT MIX ASPHALT DIKE (TYPE F)	GUARD RAILING DELINEATOR	CONCRETE BARRIER MARKER (N)	MIDWEST GUARDRAIL SYSTEM (8' POST)	MIDWEST GUARDRAIL SYSTEM (7' WOOD POST)	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	TRANSITION RAILING (TYPE WB-31)	TERMINAL SYSTEM (TYPE CAT)	END CAP (TYPE A)	BURIED POST END ANCHOR (N)	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	CRASH CUSHION (SCI 100GM)	CRASH CUSHION (SCI 70GM)	CONCRETE BARRIER (TYPE 736B Mod1)	CONCRETE BARRIER (TYPE 736B Mod2)	CONCRETE BARRIER (TYPE 736B Mod3)	REMARKS
				EA	LB	LF	LF	CY	CY	CY	CY	SQYD	CY	CY	SQYD	TON	LF	LF	LF	EA	EA	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	
33	EB	105	L-19		21000	1250.0	385.0								502.2	3.0		385		50				1225.00					1								
34	EB	105	L-20	7	1260	75.0	1602.0		18.3	24.3	18.22	182.0	51.63	23.17							53											1				1579	
35	EB	105	L-22	1	1050	62.5	87.5								24.4	1.0			75	3				75.00				1	1								
36	EB	105	L-23/24		11760	700.0									299.7					28			87.5	587.5					1		1						
37	EB	105	L-24	2	1260	75.0	325.0								135.8	3.5		62.5	262.5	11				262.50					1		1						
38	EB	105	L-25	1	1890	112.5	125.0	2.31						12.95	10.2	1.2			87.5	3				62.50	1		1	1									
39	EB	105	L-25/26	1	3570	212.5	237.5							17.27	78.5	1.7		62.5	125	4				100.00	1		1				1						
40	EB	105	L-27		1470	87.5	112.5								46.6	0.7		62.5	50	2				50.00							1						
41	EB	105	L-27	2	1680	100.0	128.5	2.51						13.02	31.2	1.2			87.8	2				62.50					1								
42	EB	105	L-28	2	1470	87.5	100.0	1.66						8.66	8.3	1.0			75	2				50.00	1		1	1									
43	EB	105	L-31		1890	112.5	112.5	1.54						8.02	35.6	1.2			87.5	4				87.50					1								
44	EB	105	L-32		1050	62.5	87.5								10.2	1.2			87.5	4				87.50				1	1								
45	EB	105	L-33		1050	62.5	87.5	1.11						2.59		0.8		62.5	25.2	3					1		1				1						
46	EB	105	L-35		1050	62.5	87.5								39.7	1.2			87.5	3				62.50				1	1								
47	EB	105	L-37/38	6	18270	1087.5	100.0								427.0	0.8		100		44				1087.50				1	1								
48/48A	EB	105	L-39/40	4	13020	775.0	1107.5	7.07						37.86	366.0	12.0			900	34				850	2		2										
49	EB	105	L-40	2	1260	75.0	100.0								19.3	1.2	100			3				75.00				1	1								
50	EB	105	L-40/41	7			797.0							13.49							27												1			797	
51	WB	105	L-39/40	1	2100	125.0	150.0	1.54							46.4	1.3		62.5	62.5	2				37.50	1		1				1						
52	WB	105	L-39	1	12810	762.5	100.0							7.00							25															756	
53	WB	105	L-36	1	1050	62.5	100.5								19.9	2.7	100.5			4				87.50				1	1								
54/54A	WB	105	L-34/35	1	3360	200.0	200.0								564.7	5.6	206.3			8				200.00				2	2								
55	WB	105	L-34		1050	62.5	112.5	1.54						8.63	32.1	0.8		62.5	25	3					1		1				1						
56	WB	105	L-32	1	1680	100.0	100.0								36.6	2.7	100			4				100.00					1								
57	WB	105	L-30	1	1050	62.5	62.5								14.2	1.7	63.5			3				62.50				1	1								
58	WB	105	L-29/30		6930	412.5		4.4						3.14	245.2	1.15	25			13				287.5	1	1	1										
59	WB	105	L-29		3360	200.0									88.2					7				137.50	1		1				1						
60	WB	105	L-28		9660	575.0	537.5	0.6							216.1	7.2			648.5	23				537.50					1		1	1					
61	WB	105	L-28	1	1680	100.0	167.0	0.9						11.92	20.3	4.65	125			4				75.00	1		1	1									
62	WB	105	L-25	4	1890	112.5	362.5	3.07						17.26	111.8	8.5	225			13				287.50	1		1	1									
63	WB	105	L-24	1			88.0								33.6	1.2			87.5	3				62.50				1	1								
SUB-TOTAL				47	130,620	7,775.0	7,562.5	28.25	18.3	24.3	18.22	182.0	51.63	184.98	3,463.8	69.2	945.3	860.0	2,774.0	287	105		87.5	6,600.00	12	1	12	14	17		9	2	1			3,132	

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SUMMARY OF QUANTITIES

(1) REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY MARISA G. MANDOCDOC
CHECKED BY RICHARD B. KHAW
REVISED BY RK
DATE REVISED 5/8/15
S:\design\2901\traffic\TrafficDesign(Civil)\Addendum\0729010pa002.dgn
LAST REVISION 00-00-00
DATE PLOTTED => 10-NOV-2015
TIME PLOTTED => 08:31
BORDER LAST REVISED 7/2/2010
USERNAME => s116095
DGN FILE => 0729010pa002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2124
PROJECT NUMBER & PHASE 07120000301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	91, 105	R6.5/R11.0, R4.0/R11.3	159	268

Richard B Khaw 4/16/15
REGISTERED CIVIL ENGINEER DATE

7-13-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD B. KHAW No. C80736 Exp. 3/31/17 CIVIL STATE OF CALIFORNIA

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SUMMARY OF QUANTITIES

LOCATION No.	DIRECTION	ROUTE	SHEET No.	TEMPORARY DRAINAGE INLET PROTECTION	TREATED WOOD WASTE	REMOVE GUARDRAIL	REMOVE ASPHALT CONCRETE DIKE	1 ROADWAY EXCAVATION	CEMENT TREATED PERMEABLE BASE	CLASS 3 AGGREGATE BASE	LEAN CONCRETE BASE	BASE BOND BREAKER	JOINTED PLAIN CONCRETE PAVEMENT	MINOR CONCRETE (MINOR STRUCTURE)	1 VEGETATION CONTROL (MINOR CONCRETE)	HOT MIX ASPHALT (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE C)	PLACE HOT MIX ASPHALT DIKE (TYPE F)	GUARD RAILING DELINEATOR	(N) CONCRETE BARRIER MARKER	MIDWEST GUARDRAIL SYSTEM (8' POST)	MIDWEST GUARDRAIL SYSTEM (7' WOOD POST)	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	TRANSITION RAILING (TYPE WB-31)	TERMINAL SYSTEM (TYPE CAT)	END CAP (TYPE A)	(N) BURIED POST END ANCHOR	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	CRASH CUSHION (SCI 100GM)	CRASH CUSHION (SCI 70GM)	CONCRETE BARRIER (TYPE 736B Mod1)	CONCRETE BARRIER (TYPE 736B Mod2)	CONCRETE BARRIER (TYPE 736B Mod3)	REMARKS
				EA	LB	LF	LF	CY	CY	CY	CY	SQYD	CY	CY	SQYD	TON	LF	LF	LF	EA	EA	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	
64	WB	105	L-22	1			100.0								19.3	1.3			100	3		12.5		62.50				1	1								
65	WB	105	L-21	1	1050	62.5	88.0								36.4	0.8		62.5	25	4				62.50					1		1						
66	WB	105	L-21	1	1260	75.0									43.7					4				50.00					1		1						
67	WB	105	L-20	1	1680	100.0	175.0								55.7	1.5		62.5	112.5	6				112.50					1		1						
SHEET TOTAL				4	3,990	237.5	362.7								155.1	3.6		125.0	237.5	17		12.5		287.5				1	4		3						
Q-1 SHEET TOTAL				47	126,785	7,425.0	13,749.0	12.66		614.6	307.4	2,813.4	834.39	199.35	1,946.3	42.0		340.63	2592.0	163	458	25	625	3362.50	11	1	11	2	10	5	8	4	4	2,491	297	10,937	
Q-2 SHEET TOTAL				47	130,620	7,775.0	7,562.5	28.25	18.3	24.3	18.22	182.0	51.63	184.98	3,463.8	69.2	945.3	860.0	2,774.0	287	105		87.5	6,600.00	12	1	12	14	17		9	2	1			3,132	
DQ-3 SHEET TOTAL							# 455									# 2.4	# 8.0																				
GRAND TOTAL				98	261,395	15,437.5	22,129	40.91	18.3	638.9	325.62	2,995.4	886.0	384.33	5,565.2	117.2	953.3	1325.63	5603.5	467	563	37.5	712.5	10,250.00	23	2	23	17	31	5	20	6	5	2,491	297	14,069	

1 IMPORTED BORROW AND REMOVE CONCRETE QUANTITIES

LOCATION No.	DIRECTION	ROUTE	SHEET No.	IMPORTED BORROW	REMOVE CONCRETE	REMARKS
				CY	CY	
1	EB	91	L-1&2	15.66		
2	EB	91	L-2	11.70		
3	EB	91	L-3&4	32.10	0.5	
4	EB	91	L-3&4	292.5		
8	EB	91	L-10&11	0.50		
19	WB	91	L-16	10.0		
28	WB	91	L-5&6	8.0		
31	WB	91	C-6	1.92		
34	EB	91	L-20	0.5		
58	WB	91	C-6	0.81		
60	WB	91	C-6	0.6		
64	WB	91	L-28	8.0	0.25	
TOTAL				382.3	0.8	
DQ-3 TOTAL				# 160.0	# 2.7	
GRAND TOTAL				543.0	3.45	

TEMPORARY CONSTRUCTION ENTRANCE QUANTITY

ROUTE	TEMPORARY Const ENTRANCE	REMARKS
	EA	
91 AND 105	4	
GRAND TOTAL	4	

TEMPORARY FIBER ROLL QUANTITY

ROUTE	TEMPORARY FIBER ROLL	REMARKS
	LF	
91	400	
105	200	
GRAND TOTAL	600	

REMOVE CRASH CUSHION QUANTITY

LOCATION No.	DIRECTION	ROUTE	SHEET No.	REMOVE CRASH CUSHION (SAND FILLED)	REMARKS
				EA	
58	WB	105	L-29&30	14	
60	WB	105	L-28	16	
GRAND TOTAL				30	

1 REVISED PER ADDENDUM No.1 DATED NOVEMBER 13, 2015

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
(#) - SEE DRAINAGE QUANTITIES SHEET DQ-3 FOR MORE DETAILS.

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY: MARISA G. MANDOCDOC
CHECKED BY: RICHARD B. KHAW
REVISED BY: RK
DATE REVISED: 5/8/15

LAST REVISION 00-00-00
DATE PLOTTED => 10-NOV-2015
TIME PLOTTED => 08:31