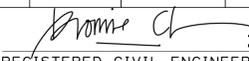
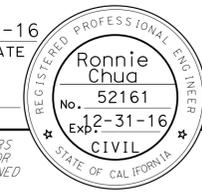


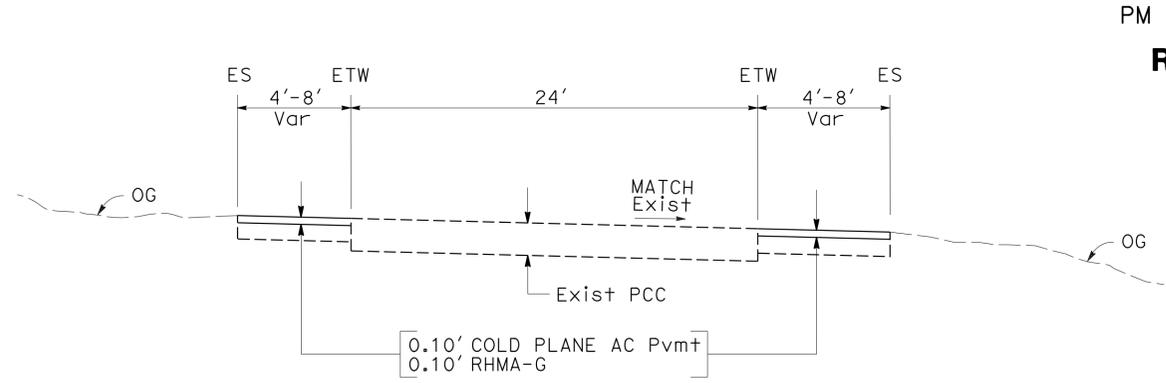
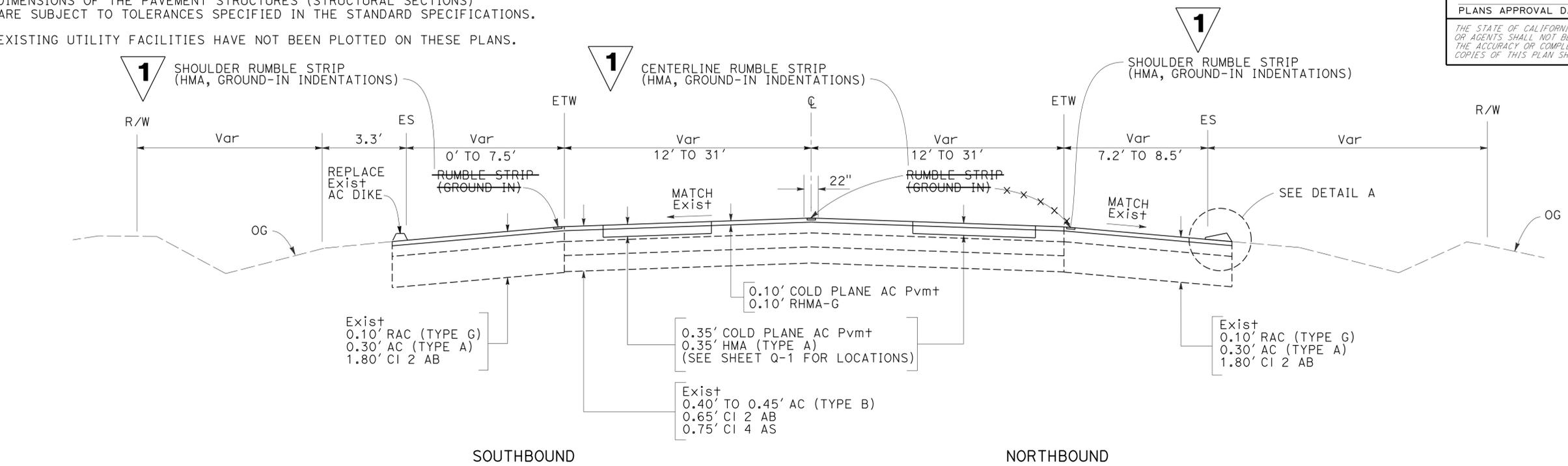
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	2	39
			2-11-16	DATE	
REGISTERED CIVIL ENGINEER			No. 52161		
PLANS APPROVAL DATE			2-22-16		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

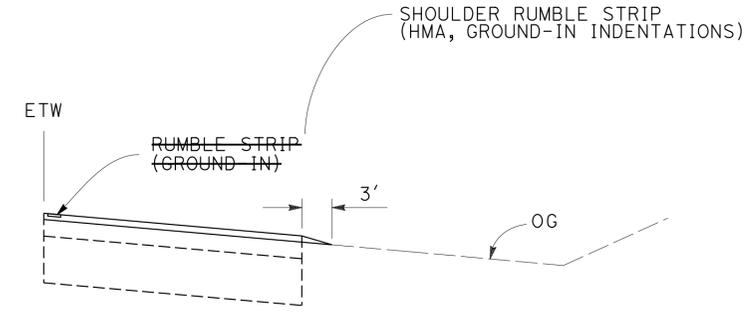
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ABBREVIATION:

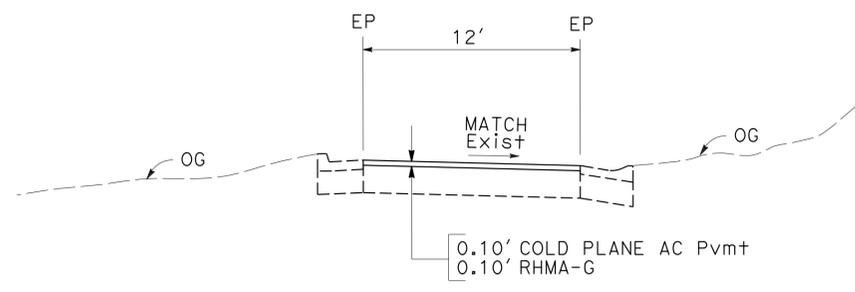
RHMA-G RUBBERIZED HOT MIX ASPHALT-GAP GRADED



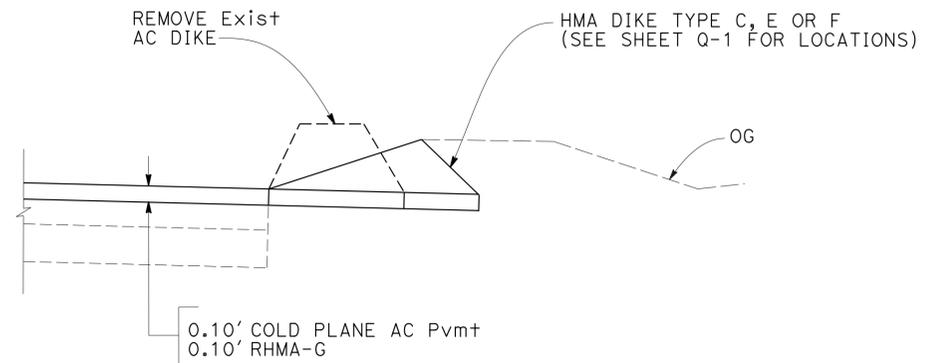
CONNECTOR FROM SB ROUTE 84 TO SB ROUTE 680
CONNECTOR FROM NB ROUTE 680 TO SB ROUTE 84



SHOULDER BACKING INSTALLED WHERE NO EXISTING DIKE IS PRESENT (SEE SHEET Q-1 FOR LOCATIONS)



CONNECTOR FROM SB ROUTE 84 TO NB ROUTE 680

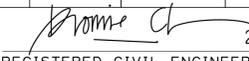
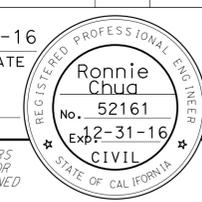


DETAIL A

TYPICAL CROSS SECTIONS
NO SCALE

1 REPLACED PER ADDENDUM No. 1 DATED APRIL 20, 2016

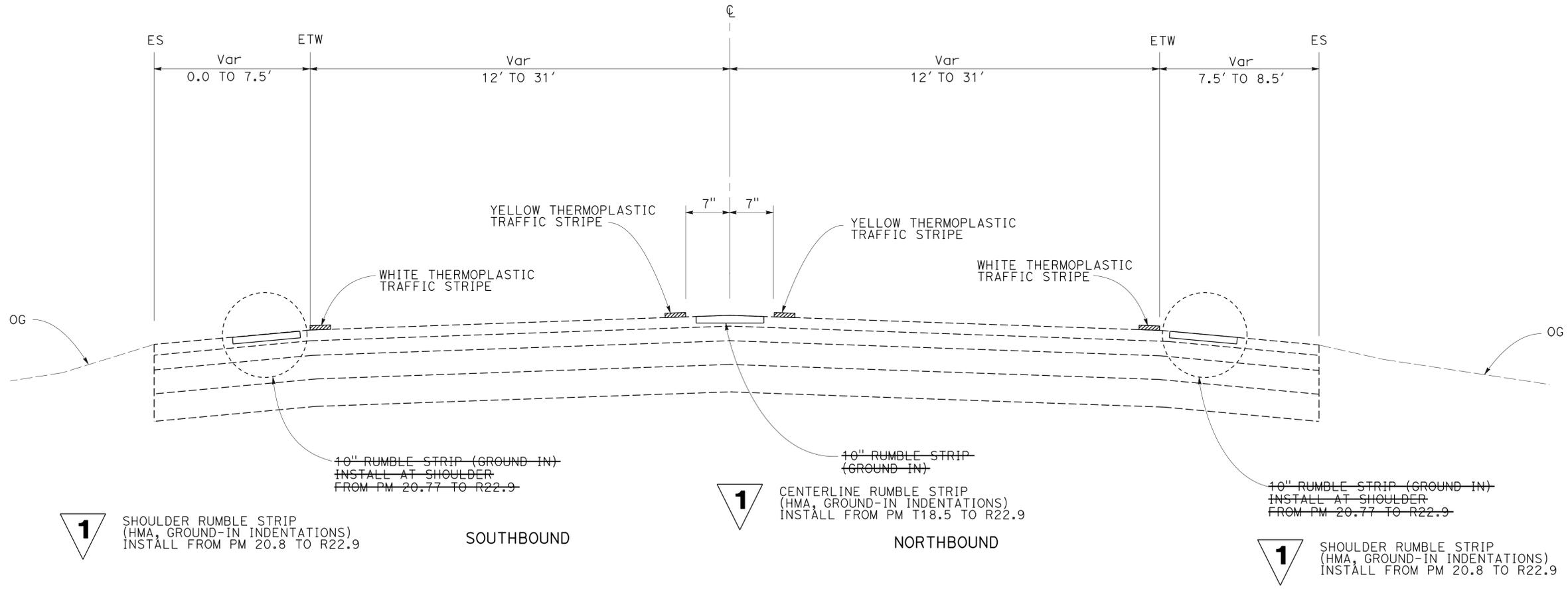
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	RAMSES SARGISS
CALCULATED/DESIGNED BY	CHECKED BY
MINH VAN LE	RONNIE CHUA
REVISOR	DATE
ML	1-19-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	16	39
			2-11-16	DATE	
REGISTERED CIVIL ENGINEER			DATE		
2-22-16			PLANS APPROVAL DATE		
					
<small>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.</small>					

NOTE:

1. ALL RUMBLE STRIPS AND STRIPINGS ARE REPLACED IN-KIND AS THE EXISTING.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	MINH VAN LE	REVISOR BY	ML
Caltrans	RAMSES SARGISS	CHECKED BY	RONNIE CHUA	DATE REVISED	1-19-16
DESIGN					



1 REPLACED PER ADDENDUM No. 1 DATED APRIL 20, 2016

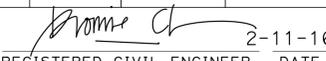
RUMBLE STRIP
FROM PM R18.55 TO PM R22.9
(HMA, GROUND-IN INDENTATIONS) **1**

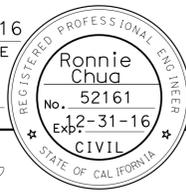
PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	20	39

 2-11-16
 REGISTERED CIVIL ENGINEER DATE
 2-22-16
 PLANS APPROVAL DATE



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

ROADWAY QUANTITIES SUMMARY

DIRECTION	LOCATION PM	COLD PLANE AC PAVEMENT		HOT MIX ASPHALT (TYPE A)		RHMA-G	TACK COAT	
		LOCALLY FAILED AREA	MAINLINE	LOCALLY FAILED AREA	AC DIKE		LOCALLY FAILED AREA	MAINLINE
		SQYD		TON				
NB AND SB	R18.0 TO R22.9	1399	179060	330	373	11940	0.63	74.61
TOTAL		180459		703		11940	75.24	

COLD PLANE AC PAVEMENT (LOCALLY FAILED AREA)

DIRECTION	LOCATION PM	(N)	(N)	(N)	COLD PLANE AC	HOT MIX ASPHALT (TYPE A)	TACK COAT
		LENGTH	WIDTH	DEPTH			
		LF					
NB	T18.72	50	6	0.35	33	8	0.02
	R19.25	50	6	0.35	33	8	0.02
	R19.45	200	12	0.35	267	63	0.12
	M22.08	100	12	0.35	133	31	0.06
TOTAL (NB)					466	110	0.22
SB	R19.80	300	6	0.35	200	47	0.09
	R19.66	260	6	0.35	173	41	0.08
	R19.60	400	12	0.35	533	126	0.24
	18.98	40	6	0.35	27	6	0.01
TOTAL (SB)					933	220	0.42
TOTAL (NB AND SB)					1399	330	0.64

HOT MIX ASPHALT DIKE

DIRECTION	LOCATION PM	REMOVE AC DIKE	PLACE AC DIKE			HOT MIX ASPHALT (TYPE A)
			TYPE C	TYPE E	TYPE F	
			LF			
NB	R18.00 TO T18.73	2312		2102	210	58
	20.66 TO 20.77	537		395	142	12
	20.92 TO R22.17	6573	143	3472	2958	132
	R22.30 TO R22.70	2069	76	1638	355	48
SUBTOTAL (NB)		11491	219	7607	3665	250
SB	R22.87 TO R22.61	1816			1816	24
	20.84 TO 20.66	915		915		24
	R19.66 TO R19.58	452		452		12
	18.98 TO R18.28	2400		2400		63
SUBTOTAL (SB)		5583		3767	1816	123
TOTAL (NB AND SB)		17074	219	11374	5481	373

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

SHOULDER BACKING

DIRECTION	LOCATION PM	(N)	QUANTITY
		LENGTH	
		LF	
NB	R18.2 TO T18.5	1584	16.0
	T18.6 TO T18.7	528	5.3
	R19.2 TO R19.3	528	5.3
	R19.8 TO R19.9	282	2.9
	20.5 TO 20.8	1584	16.0
TOTAL			45.5

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

RUMBLE STRIP

DIRECTION	LOCATION PM	RUMBLE STRIP (GROUND-IN)	
		CENTER LINE	SHOULDER
		STA	
NB AND SB	R18.55 TO R22.97	302	
	20.77 TO R22.97		228
TOTAL		302	228

(HMA, GROUND-IN INDENTATIONS) **1**



1 REPLACED PER ADDENDUM No. 1 DATED APRIL 20, 2016

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN
 RAMSES SARGISS
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 RONNIE CHUA
 REVISOR
 1-19-16
 ML

LAST REVISION DATE PLOTTED => 18-APR-2016
 01-19-16 TIME PLOTTED => 12:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	21	39
			2-16-16		
REGISTERED ELECTRICAL ENGINEER			DATE		
			2-22-16		
PLANS APPROVAL DATE					
<small>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.</small>					

ELECTRICAL INDEX:

- E-1 ELECTRICAL INDEX AND NOTES
- ~~E-2 LOOP DETECTOR REPLACEMENT (TRAFFIC MONITORING STATION)~~
- ~~E-3 LOOP DETECTOR REPLACEMENT (TRAFFIC SIGNAL)~~
- E-2 - E-3 INDUCTIVE LOOP DETECTOR

PROJECT NOTES:

- 1 AB EXISTING DETECTORS AND INSTALL NEW DETECTORS. SPLICE NEW LOOP CONDUCTORS TO CORRESPONDING DLC IN TERMINATION PULL BOX. VERIFY IDENTIFICATION OF EXISTING DLC BEFORE CONNECTING TO CORRESPONDING LOOP CONDUCTORS.

GENERAL NOTES:

1. AT LEAST THREE WORKING DAYS PRIOR TO PERFORMING ANY WORK ON EACH EXISTING SYSTEM, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF TRANSPORTATION, ELECTRICAL AND SIGNAL MAINTENANCE SUPERINTENDENT, PHONE (415) 330-6500.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE LOOP DETECTORS TO BE REPLACED PRIOR TO REPAVING.
3. THE CONTRACTOR SHALL PROVIDE TWO REPORTS PER LOCATION ON THE STATUS OF EACH DETECTOR LOOP REPLACEMENT SHOWING CONTINUITY AND INSULATION RESISTANCE READINGS. THE REPORTS SHALL BE SUBMITTED TO THE ENGINEER, ONE BEFORE STARTING WORK AND THE OTHER AFTER WORK HAS BEEN COMPLETED AT EACH LOCATION.
4. FOR INSTALLING DETECTOR LOOP IN PRECAST CONCRETE PAVEMENT OR PRECAST POST-TENSION CONCRETE PAVEMENT, SLOTS SHALL BE FILLED WITH EPOXY.
5. PM IS NOT TO BE USED TO DETERMINE DETECTOR LOOP EXACT LOCATIONS.
6. VERIFY EXACT LOCATION OF EACH EXISTING DETECTOR, TERMINATION PULL BOX AND DLC, INCLUDING EACH LOOP CONDUCTOR SPLICE TO DLC, AS FIRST ORDER OF WORK.

REPLACED PER ADDENDUM No. 1 DATED APRIL 20, 2016

ELECTRICAL INDEX AND NOTES

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL
 FUNCTIONAL SUPERVISOR MAHMOOD NOII
 CALCULATED/DESIGNED BY CHECKED BY
 SHARAD PATEL PARMIZ KHAZI
 REVISED BY DATE REVISED
 SP 1-19-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	22	39

2-16-16
REGISTERED ELECTRICAL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

Parwiz A. Khazi
No. 17624
Exp. 9-30-17
ELECTRICAL

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL

FUNCTIONAL SUPERVISOR
MAHMOOD NOII

CALCULATED/DESIGNED BY
CHECKED BY

SHARAD PATEL
PARWIZ KHAZI

REVISOR BY
DATE REVISED

SP
1-19-16

COUNTY - ROUTE - PM	Ala 84 R18.0	Ala 84 R22.9	
DETECTORS: A = TMS-MAINLINE B = ON-RAMP-QUEUE C = ON-RAMP-RM D = OFF-RAMP-QUEUE E = CONNECTOR RAMP	C	B	
NUMBER OF LANES/ DIRECTION OF TRAFFIC (#/NB, #/SB, #/EB, #/WB)	2/WB	2/WB	
DETECTOR INSTALLATION DETAIL (SEE SHEET E-1 AND E-3)			
PULL BOX LOCATION: A = LEFT SHOULDER B = MEDIAN C = RIGHT SHOULDER	A,C	C	TOTAL DETECTORS
PULL BOX REPLACEMENT: Y=YES, N=NO	N	N	
HANDHOLE REPLACEMENT:	Y	Y	
NUMBER OF DETECTORS:	8	2	10
COMMENTS	1	1	

TOTAL		
PULL BOXES	HANDHOLES	LOOP DETECTORS
0	2	10

REPLACED PER ADDENDUM No. 1 DATED APRIL 20, 2016

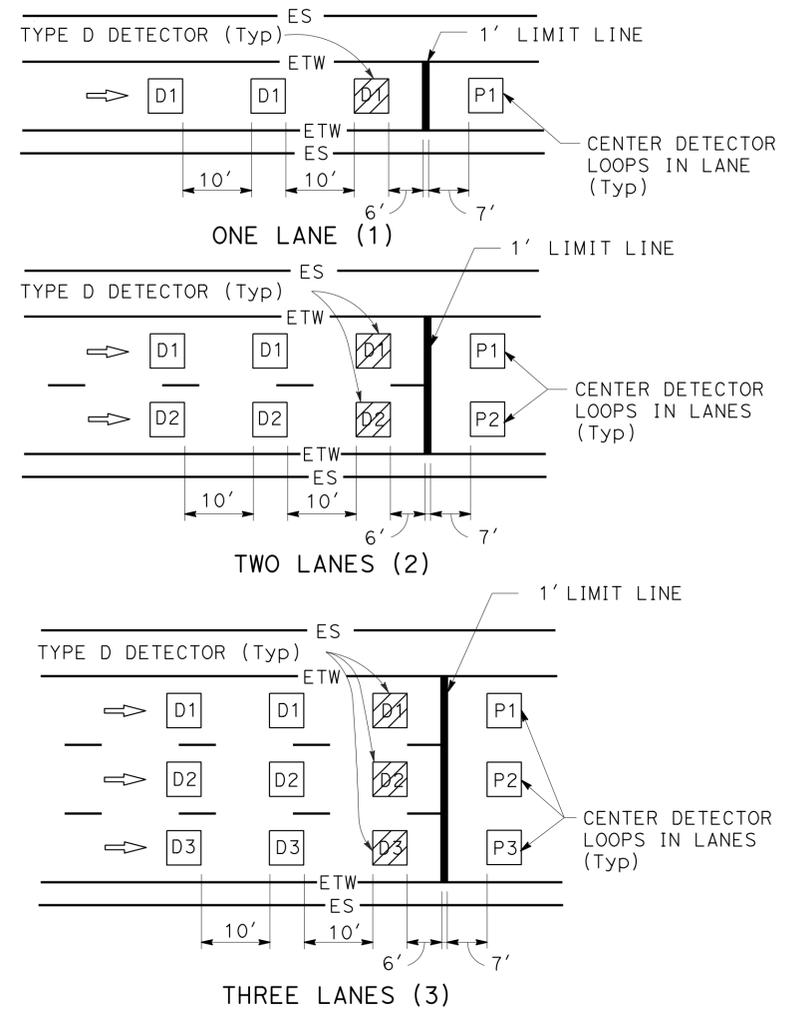
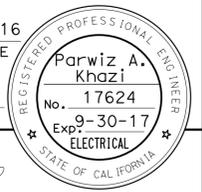
INDUCTIVE LOOP DETECTOR

~~LOOP DETECTOR REPLACEMENT (TRAFFIC MONITORING STATION)~~

NO SCALE

LAST REVISION DATE PLOTTED => 18-APR-2016 01-19-16 TIME PLOTTED => 12:30

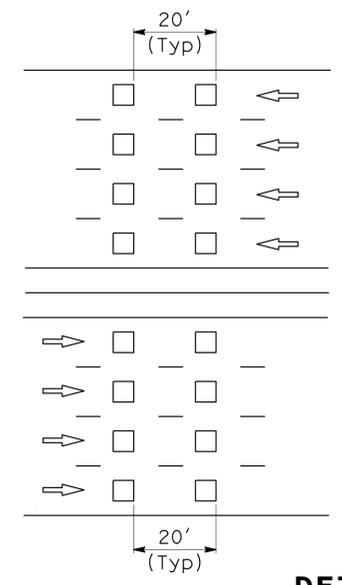
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	23	39
REGISTERED ELECTRICAL ENGINEER			DATE	2-16-16	
PLANS APPROVAL DATE			2-22-16		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**DETAIL "RM"
RAMP METERING STATION**

RAMP METERING STATION NOTES:

- SEE STANDARD PLANS ES-5A, ES-5B, AND ES-13A FOR ADDITIONAL DETAILS.
- DLC CONDUCTORS SHALL BE SPLICED TO THE LOOP CONDUCTORS IN THE NEAREST PULL BOX.
- ALL SPLICES SHALL BE TYPE "S" OR TYPE "ST" AS REQUIRED.



**TRAFFIC MONITORING STATION NOTES
FREEWAY MAINLINE DETECTOR DESIGNATION:**

- N = NORTHBOUND LANES (NB)
- S = SOUTHBOUND LANES (SB)
- E = EASTBOUND LANES (EB)
- W = WESTBOUND LANES (WB)

NUMBER OF LANES FROM LEFT WITH RESPECT TO DIRECTION OF TRAFFIC:

- 1 = FIRST LANE FROM LEFT
- 2 = SECOND LANE FROM LEFT
- 3 = THIRD LANE FROM LEFT
- 4 = FOURTH LANE FROM LEFT

NUMBER OF DETECTOR IN THE SAME LANE:

- 1 = ENTERING DETECTOR
- 2 = LEAVING DETECTOR

**DETAIL "TM"
TRAFFIC MONITORING STATION**

RAMP DETECTOR DESIGNATION:

- D = DEMAND DETECTOR
 - P = PASSAGE DETECTOR
 - Q = QUEUE DETECTOR
 - F = OFFRAMP DETECTOR
- 1 = FIRST LANE FROM LEFT
2 = SECOND LANE FROM LEFT

INDUCTIVE LOOP DETECTOR 1
~~LOOP DETECTOR REPLACEMENT~~
~~(TRAFFIC SIGNAL)~~

1 **REPLACED PER ADDENDUM No. 1 DATED APRIL 20, 2016**

NO SCALE

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISIONS	DATE
ELECTRICAL	MAHMOOD NOII	SP	1-19-16
SHARAD PATEL	PARWIZ KHAZI		
CALCULATED/DESIGNED BY	CHECKED BY		

LAST REVISION DATE PLOTTED => 18-APR-2016 01-19-16 TIME PLOTTED => 12:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	84	R18.0/R22.9	29A	39

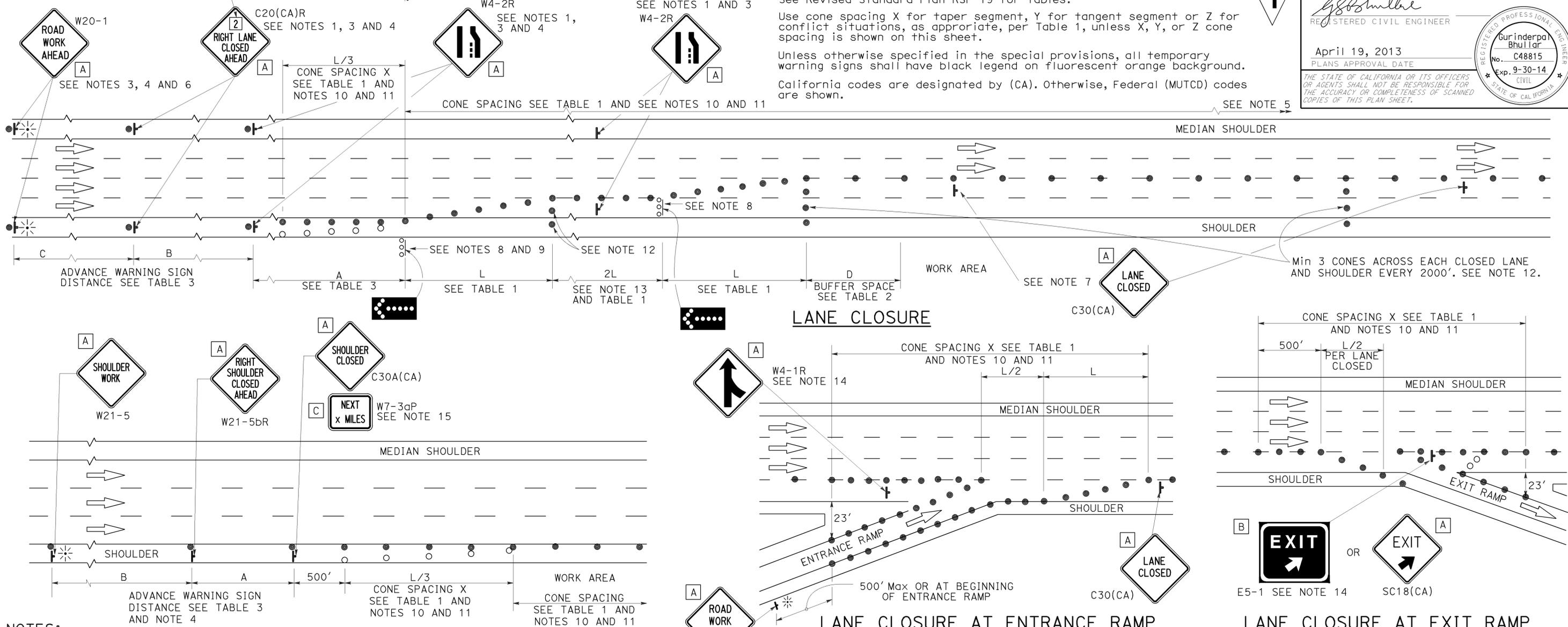
REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

**1 ADDED PER ADDENDUM No. 1
 APRIL 20, 2016**

NOTES:

See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



NOTES:

- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

SHOULDER CLOSURE

- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

W20-1 SEE NOTE 4

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10