

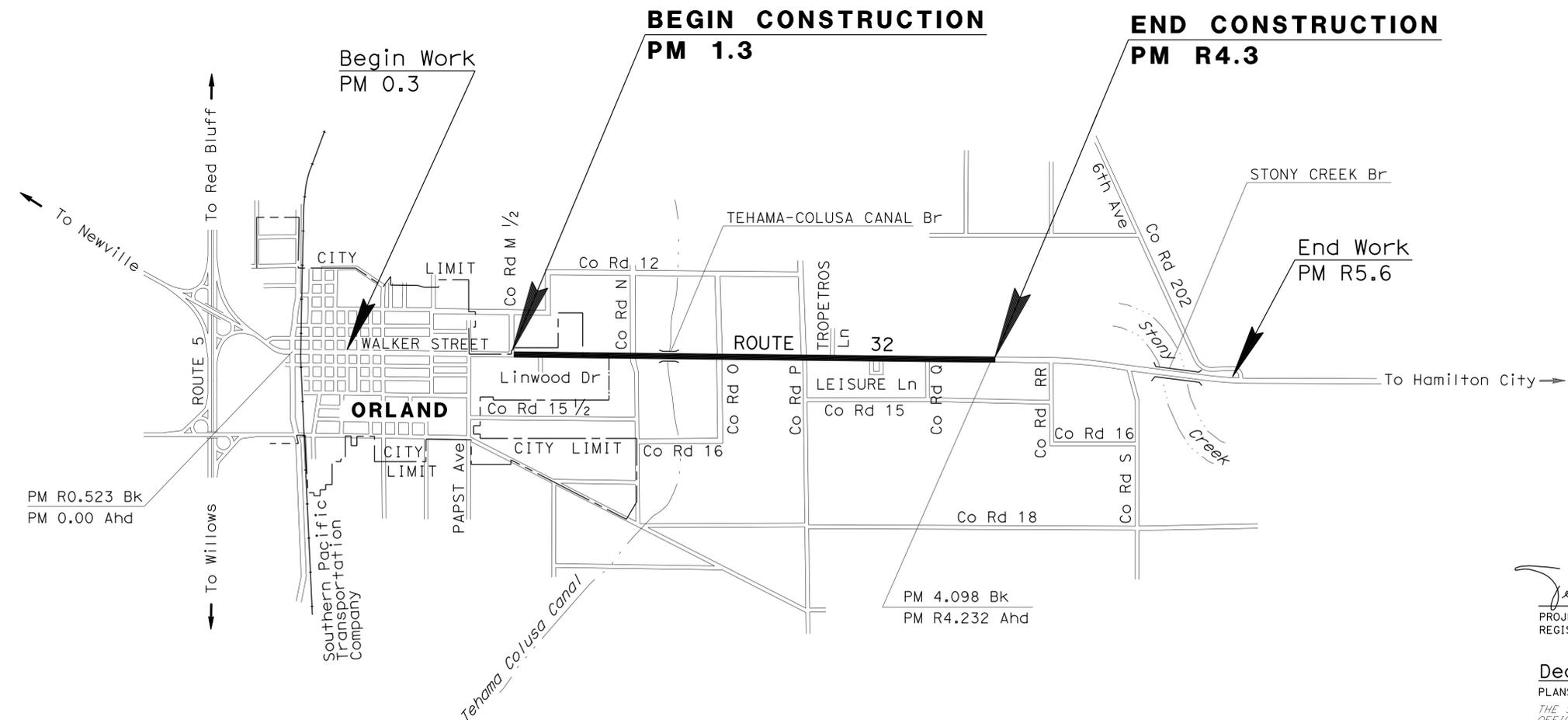
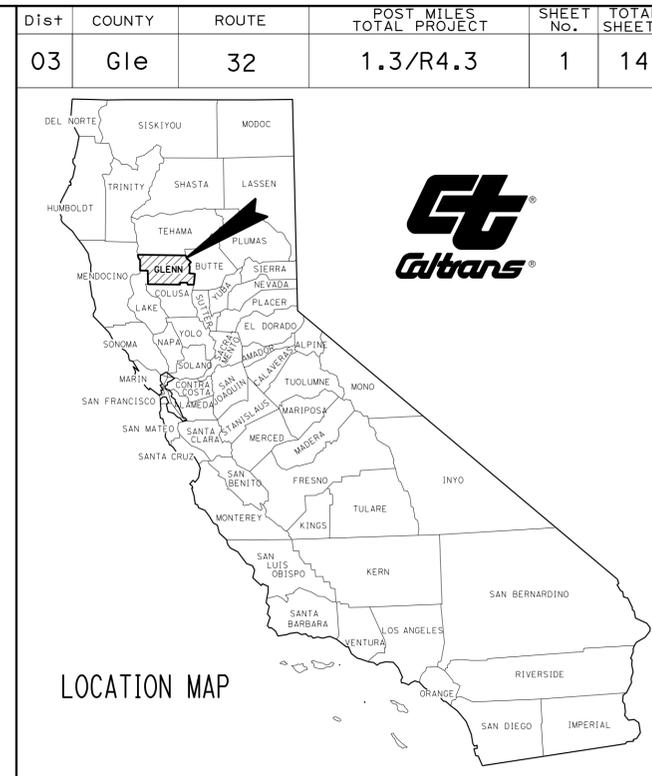
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-5	CONSTRUCTION DETAILS
6	CONSTRUCTION AREA SIGNS
7	PAVEMENT DELINEATION QUANTITIES
8	SUMMARY OF QUANTITIES
9-14	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN GLENN COUNTY
IN AND NEAR ORLAND
FROM COUNTY ROAD M 1/2
TO 0.3 MILE WEST OF COUNTY ROAD RR

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER
PATRICK BISHOP

DESIGN MANAGER
PATRICK BISHOP

Jesse Garcia 12-28-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

December 28, 2015
 PLANS APPROVAL DATE

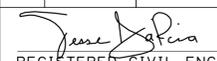
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE

CONTRACT No.	03-0G3804
PROJECT ID	0315000088

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	2	14
 REGISTERED CIVIL ENGINEER DATE 12-28-15					
12-28-15 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>					

NOTES:

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SEE SUMMARY OF QUANTITIES SHEETS AND CONSTRUCTION DETAILS SHEET FOR LIMITS OF COLD PLANE AC PAVEMENT (0.25' Max) WHICH OCCURS AFTER COLD PLANE AC PAVEMENT (0.10' Max).
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ABBREVIATIONS:

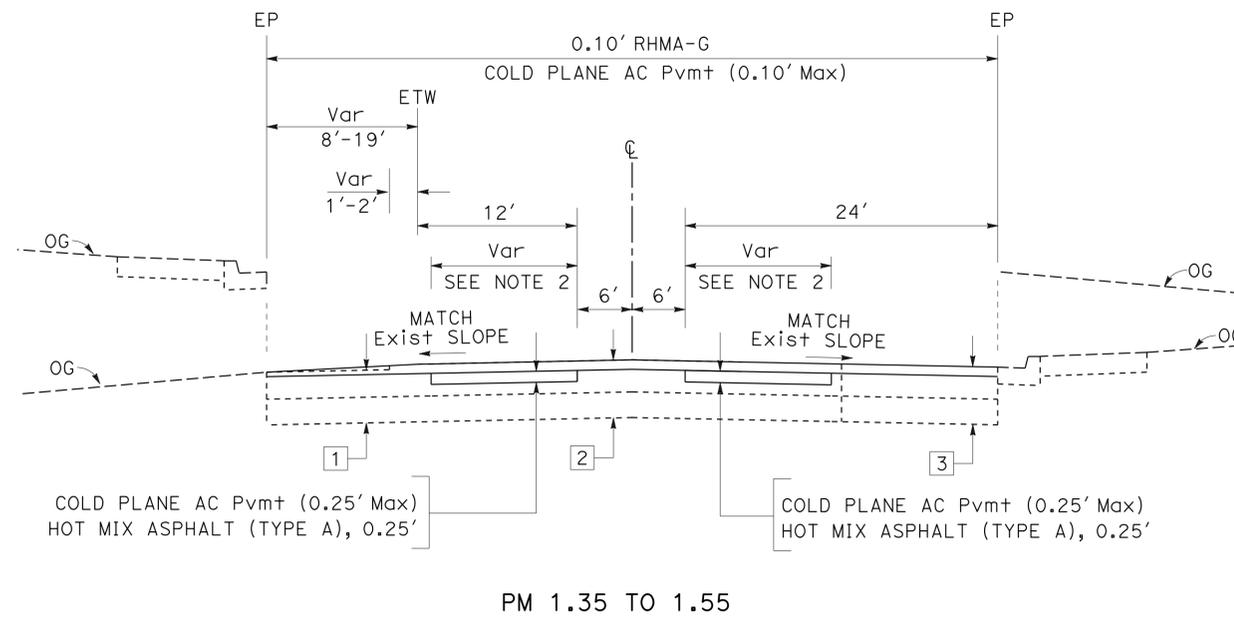
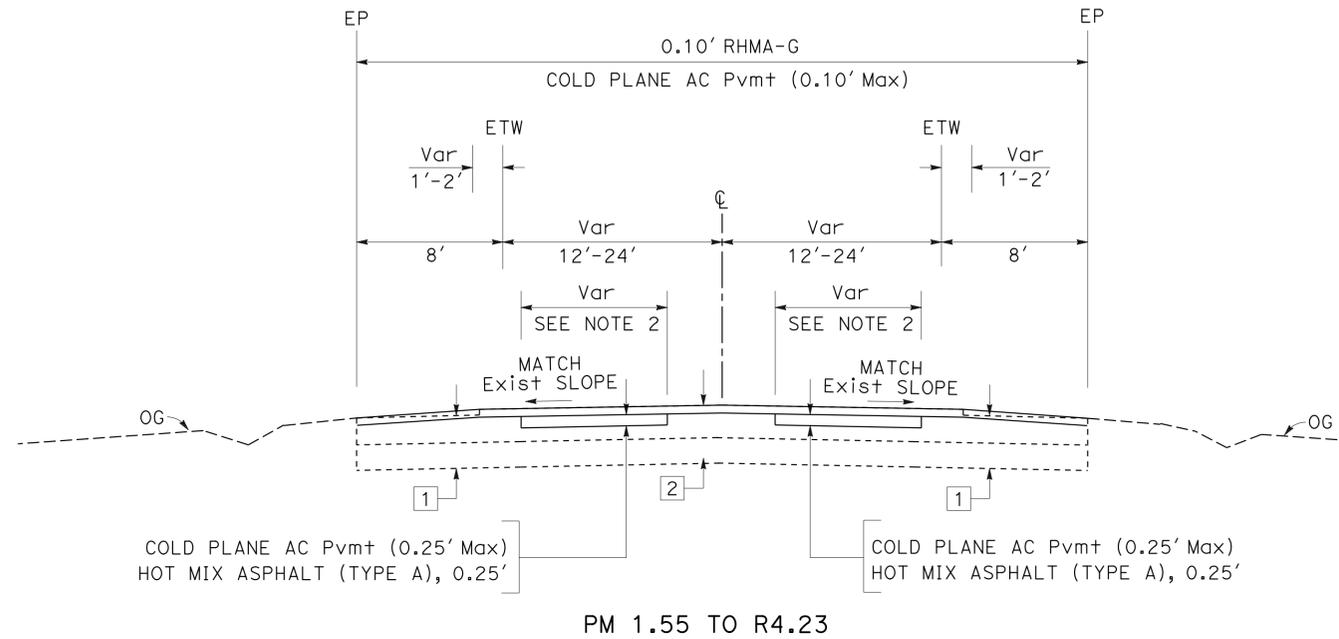
RHMA-G = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

PAVEMENT CLIMATE REGION

INLAND VALLEY

TYPICAL PAVEMENT STRUCTURE SECTIONS

- 1 Exist
0.50'-0.60' AC
0.75' AB
- 2 Exist
0.06' OGAC
0.50'-0.70' AC
0.75' AB
- 3 Exist
0.50' AC
0.75' AB



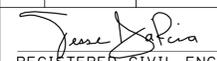
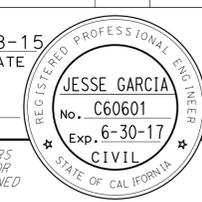
PM 1.35 TO 1.55
ROUTE 32

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE DESIGN	PATRICK BISHOP	JESSE GARCIA	ROBERT FLOYD
	CHECKED BY	DESIGNED BY	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	3	14
 REGISTERED CIVIL ENGINEER DATE 12-28-15					
12-28-15 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>					

NOTES:

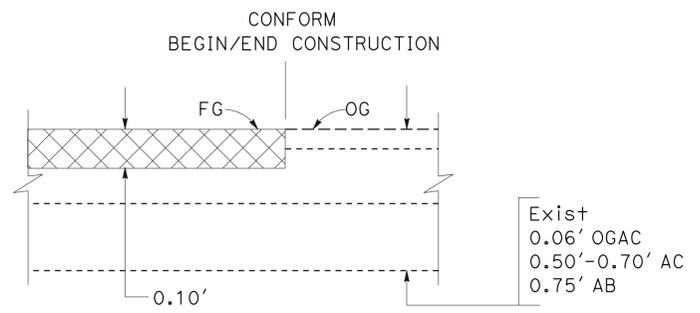
1. THE CONFORM EP LINE AT LINWOOD Dr FOLLOWS EDGE OF PAVEMENT OF ROUTE 32.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. TO CONFORM TO EXISTING EP AS SHOWN, COLD PLANE AC Pvm+T DEPTH VARIES.
4. DO NOT PAVE OR APPLY FOG SEAL COAT ON BRIDGE DECK SURFACE.

ABBREVIATION:

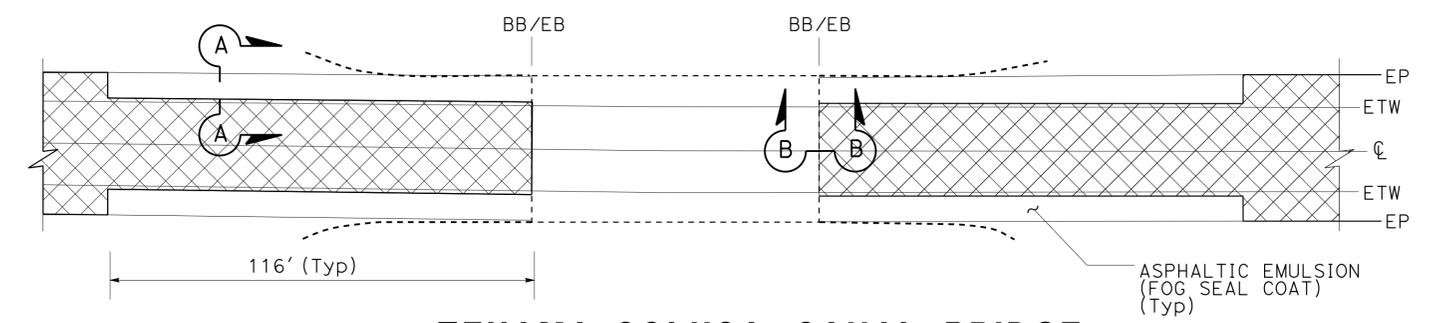
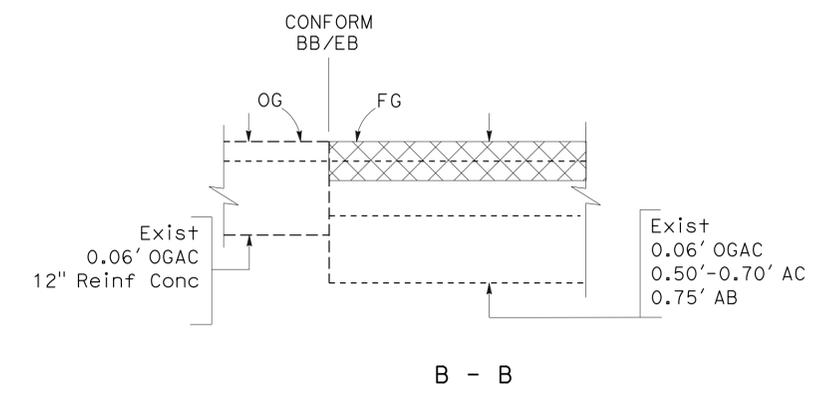
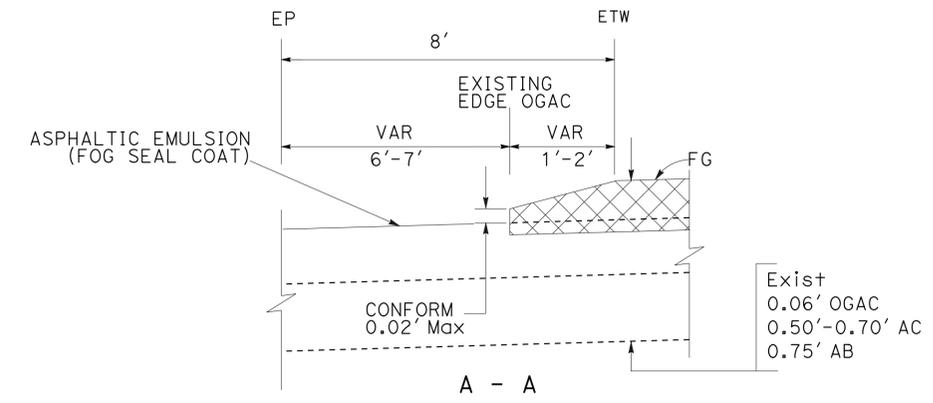
RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

LEGEND:

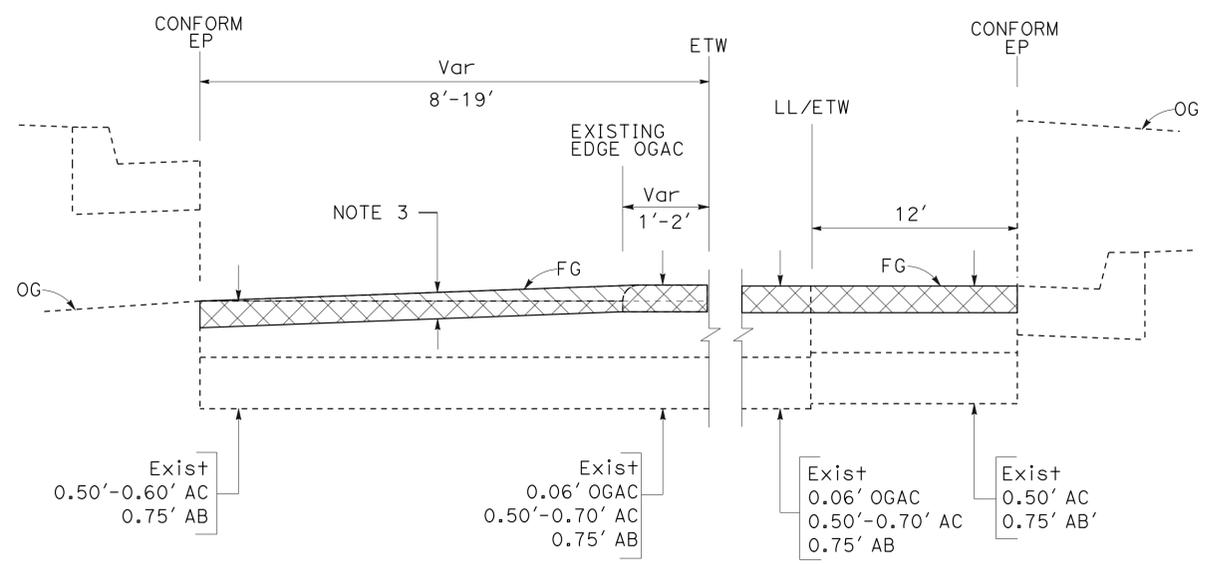
-  0.10' RHMA-G
-  COLD PLANE AC PAVEMENT (0.10' Max) AND 0.10' RHMA-G



RHMA-G TRANSVERSE CONFORM AT MAINLINE
 ROUTE 32 AT PM 1.35 AND R4.23 FROM EP TO EP



TEHAMA-COLUSA CANAL BRIDGE
 ROUTE 32 AT PM 2.23 (SEE NOTE 4)



RHMA-G TRANSVERSE CONFORM AT EP
 ROUTE 32 PM 1.35 TO 1.55

EXISTING UTILITY FRAMES AND COVERS (PROTECT IN PLACE) (N)

LOCATION PM	(N)	REMARKS
	EA	
1.35 TO 1.55	3	JUST EAST OF COUNTY ROAD M 1/2, UTILITY LID WITH CONCRETE COLLAR.
TOTAL	3	

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

CONSTRUCTION DETAILS
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR PATRICK BISHOP
 CALCULATED/DESIGNED BY JESSE GARCIA
 CHECKED BY ROBERT FLOYD
 REVISIONS BY DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	4	14
 REGISTERED CIVIL ENGINEER DATE 12-28-15					
12-28-15 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>					

NOTES:

- CENTERLINE RUMBLE STRIP IS CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- DIMENSIONS A, B C, D ARE APPROXIMATE, EXACT MEASUREMENTS WILL BE DETERMINED BY THE ENGINEER.

ABBREVIATION

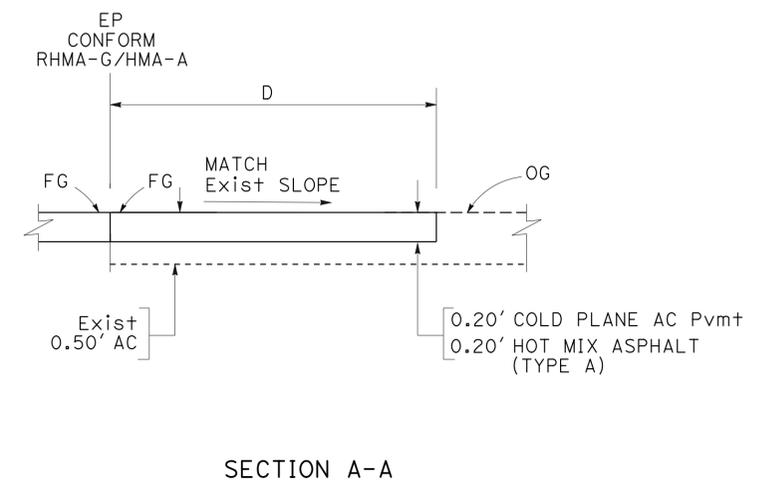
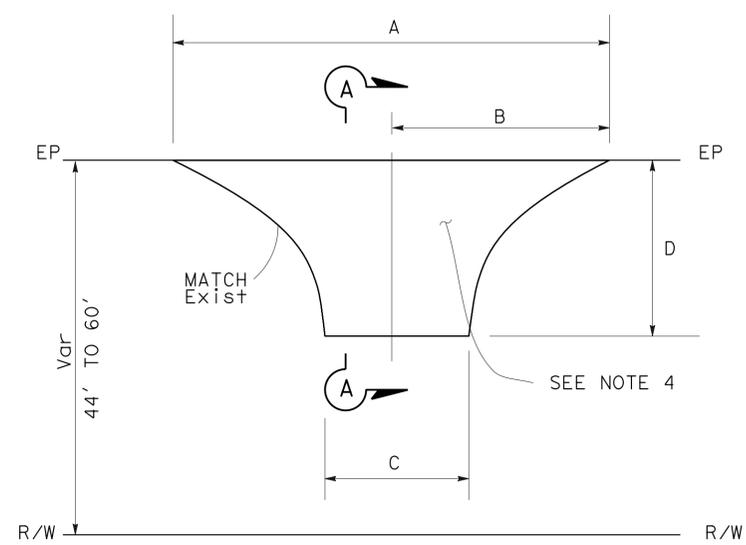
- EWNV ENHANCED WET NIGHT VISIBILITY
 RHMA-G RUBBERIZED HOT MIX ASPHALT - GAP GRADED
 HMA-A HOT MIX ASPHALT (TYPE A)

LEGEND

-  TYPE D TWO-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)

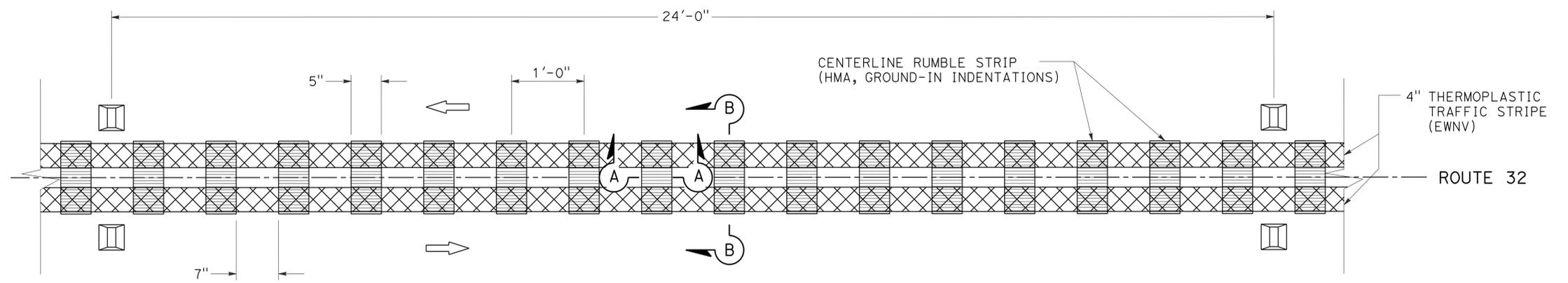
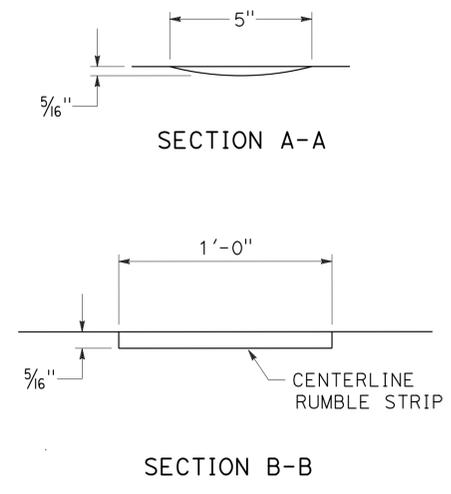
COUNTY ROAD CONNECTIONS

ROAD CONNECTION	SIDE	POST MILE	DIMENSIONS (LF)				SQFT AREA
			A	B	C	D	
ROAD N	EB	2.0	156	51	53	35	2892
ROAD N	WB	2.0	141	59	52	35	3070
ROAD O	EB	2.5	140	45	57	40	3480
ROAD O	WB	2.5	147	69	48	44	3610
ROAD P	EB	3.0	168	50	47	40	3531
ROAD P	WB	3.0	127	56	55	30	2689
ROAD Q	EB	3.7	138	76	45	45	3376



COLD PLANE ASPHALT CONCRETE PAVEMENT AT COUNTY ROAD CONNECTIONS

ROAD N / ROAD O / ROAD P / ROAD Q



DETAIL 22 WITH RUMBLE STRIP (TYPICAL)

CONSTRUCTION DETAILS
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR PATRICK BISHOP
 CALCULATED/DESIGNED BY
 CHECKED BY
 JESSE GARCIA ROBERT FLOYD
 REVISIONS BY DATE
 REVISIONS BY DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: PATRICK BISHOP
 CALCULATED/DESIGNED BY: JESSE GARCIA
 CHECKED BY: ROBERT FLOYD

REVISED BY: _____
 DATE REVISED: _____

NOTES:

- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- DO NOT PLACE CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS) ON BRIDGE DECK.
- FIELD VERIFY CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS) LIMITS BEFORE COLD PLANE ASPHALT CONCRETE ACTIVITIES.

LEGEND:

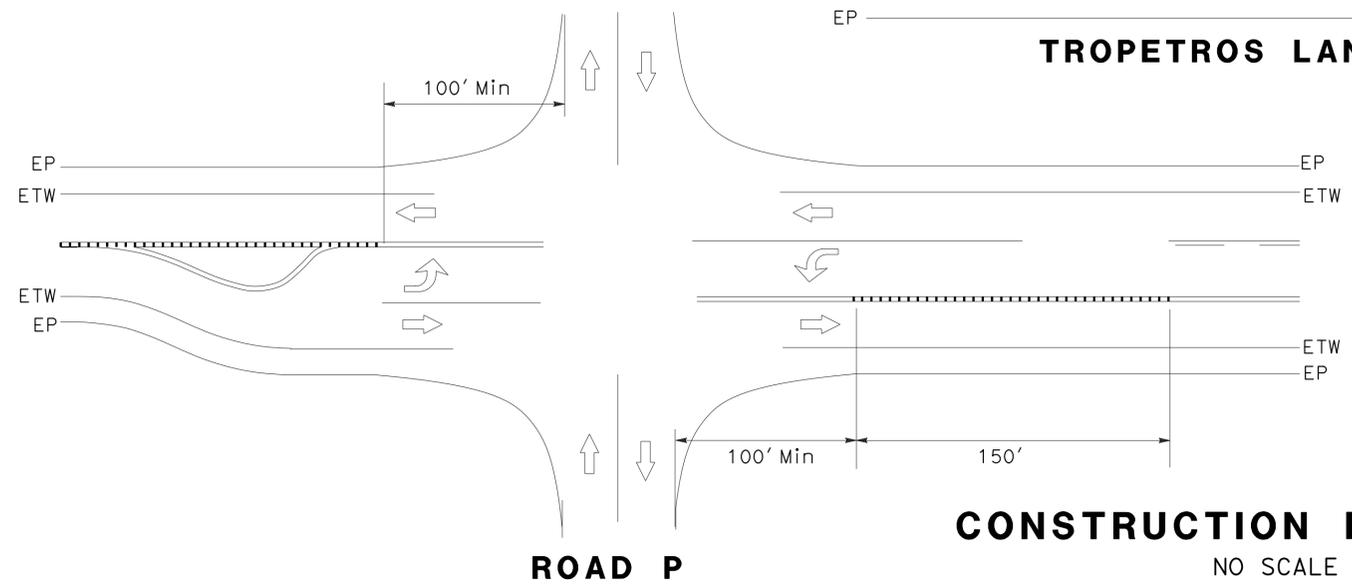
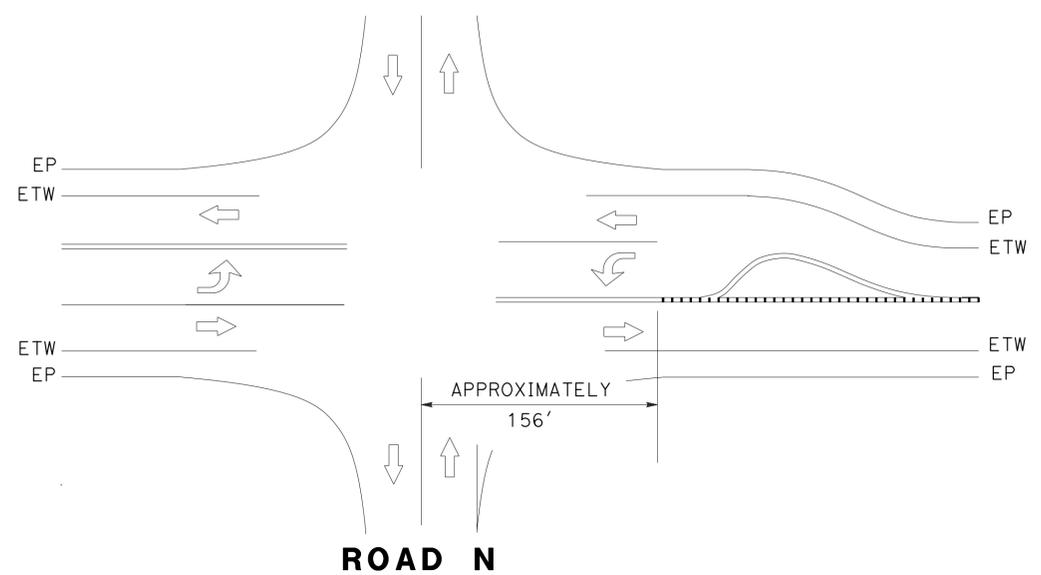
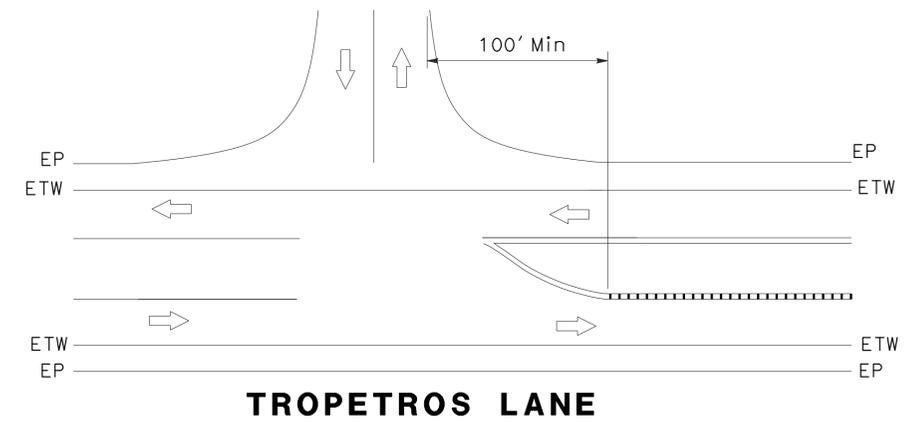
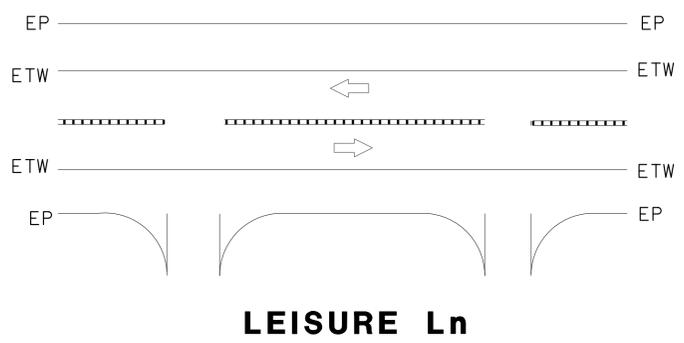
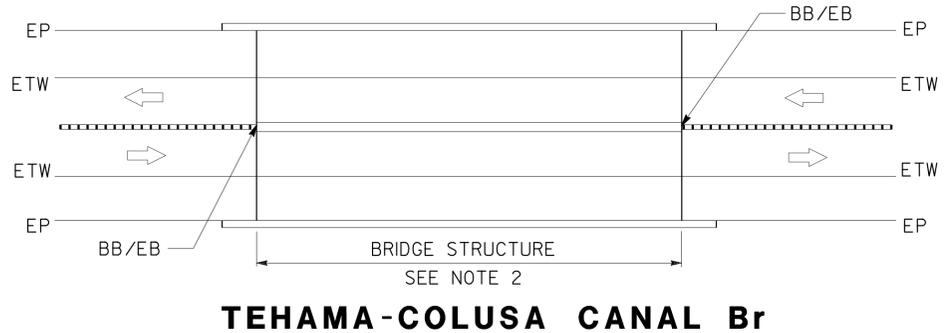
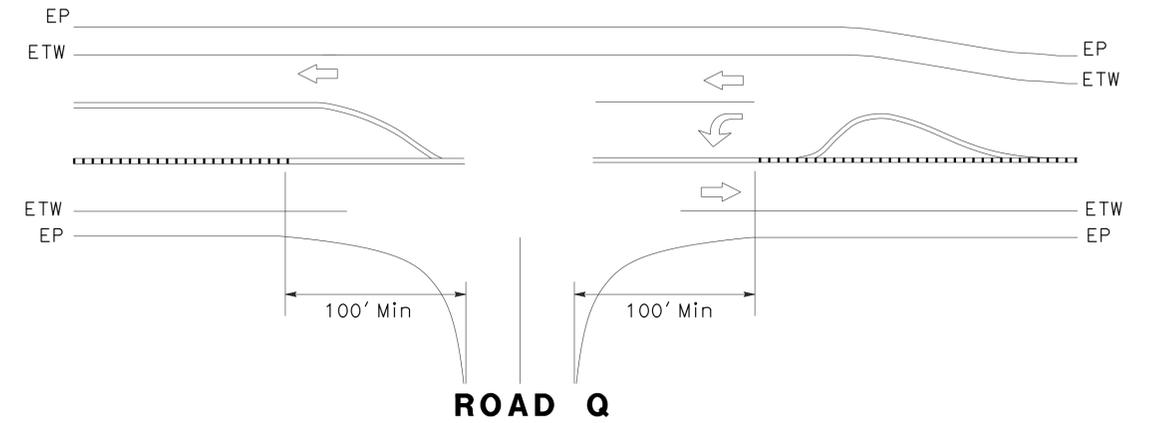
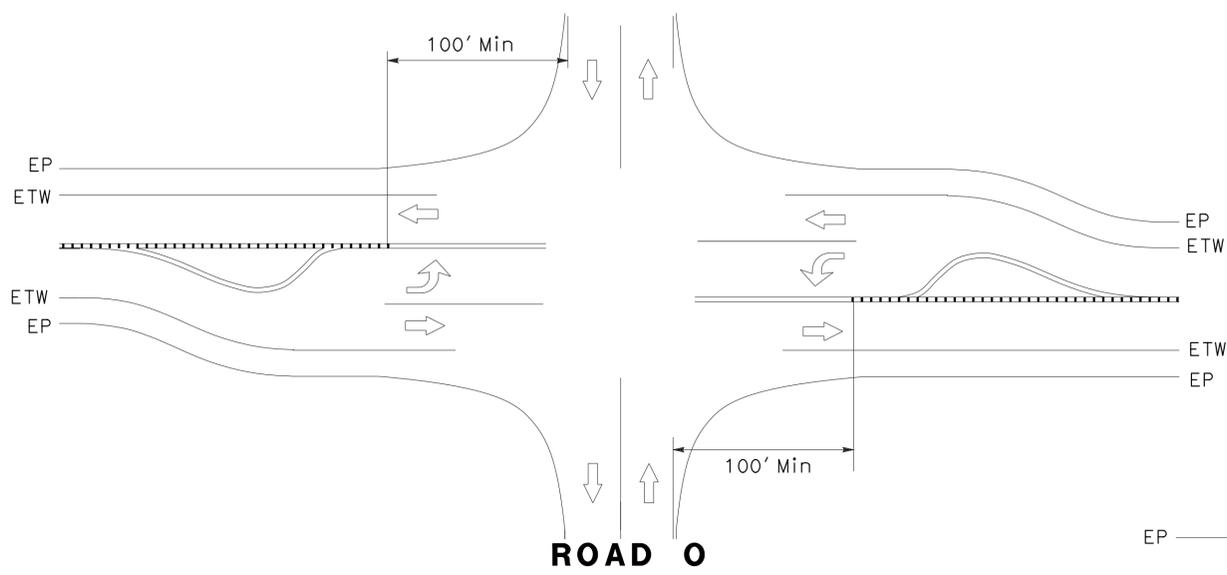
----- CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	5	14

12-28-15
 REGISTERED CIVIL ENGINEER DATE
 12-28-15
 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.

REGISTERED PROFESSIONAL ENGINEER
JESSE GARCIA
 No. C60601
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA



CONSTRUCTION DETAILS
 NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	6	14

12-28-15
REGISTERED CIVIL ENGINEER DATE

12-28-15
PLANS APPROVAL DATE

ALEX WIN WU
No. C77266
Exp. 6-30-17
CIVIL

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

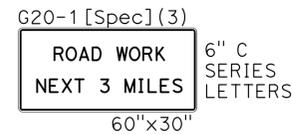
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LOCATION AND DESCRIPTION	FACING TRAFFIC				SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER AND SIZE OF POST	NUMBER OF SIGNS
	NB	SB	EB	WB	FEDERAL	CALIFORNIA				
500 FT BEFORE BEGIN CONSTRUCTION			1		G20-1 [Spec] (3)		ROAD WORK NEXT 3 MILES	60" X 30"	2-4"X6"	1
250 FT BEFORE BEGIN CONSTRUCTION				1	G20-2	C14	END ROAD WORK	36" X 18"	1-4"X4"	1
250 FT BEFORE BEGIN CONSTRUCTION			1			C40(Mod)	TRAFFIC FINES DOUBLED IN WORK ZONES	48" X 36"	1-4"X6"	1
Co Rd M/2 Lt, Gle PM 1.30		1			W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
Co Rd N, Gle PM 2.02	1	1			W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	2
Co Rd O, Gle PM 2.50	1	1			W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	2
Co Rd P, Gle PM 3.00	1	1			W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	2
TROPETROS LANE Lt, Gle 3.1		1			W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
LEISURE Ln Rt, West, Gle PM 3.28	1				W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
LEISURE Ln Rt, East, Gle PM 3.32	1				W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
Co Rd Q, Rt, Gle PM 3.70	1				W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
250 FT AFTER END CONSTRUCTION				1		C40(Mod)	TRAFFIC FINES DOUBLED IN WORK ZONES	48" X 36"	1-4"X6"	1
250 FT AFTER END CONSTRUCTION			1		G20-2	C14	END ROAD WORK	36" X 18"	1-4"X4"	1
500 FT AFTER END CONSTRUCTION				1	G20-1 [Spec] (3)		ROAD WORK NEXT 3 MILES	60" X 30"	2-4"X6"	1

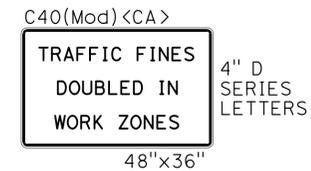
NOTES:

- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
- ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS A CALIFORNIA SIGN CODE.
- <CA> = CALIFORNIA SIGN CODE.

SIGN DETAILS



RETROREFLECTIVE ORANGE
BACKGROUND WITH BLACK
LEGEND AND BORDERS.



RETROREFLECTIVE WHITE
BACKGROUND WITH BLACK
LEGEND AND BORDERS.

CONSTRUCTION AREA SIGNS

CS-1

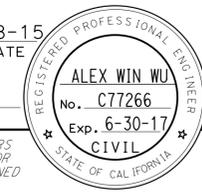
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	7	14

 12-28-15
 REGISTERED CIVIL ENGINEER DATE

12-28-15
 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.



PAVEMENT DELINEATION QUANTITIES

LOCATION	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)			4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)	8" THERMOPLASTIC TRAFFIC STRIPE (EWNV)	8" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)
	DETAIL NUMBER			DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER
Gle-32- PM 1.3/R4.3	22	27B	32	32	27C	38	37B
	LF	LF	LF	LF	LF	LF	LF
SUBTOTAL	28,730	28,392	7,936	7,936	2,352	2,441	266
TOTAL	65,058			7,936	2,352	2,441	266

THERMOPLASTIC PAVEMENT MARKING (EWNV)

DESCRIPTION	SQFT
TYPE III ARROW	714
"STOP"	242
LIMIT LINE	445
TOTAL	1401

PAVEMENT MARKER

DETAIL NUMBER	RETROREFLECTIVE	
	TYPE D	TYPE G
	EA	EA
22, 32	1522	
37B, 38		125
SUBTOTAL	1409	25
TOTAL	1434	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 REVISIONS: KRIS ALBERS, ALEX WU
 CALCULATED/DESIGNED BY: CHECKED BY:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	8	14

12-28-15
 REGISTERED CIVIL ENGINEER DATE
 12-28-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JESSE GARCIA
 No. C60601
 Exp. 6-30-17
 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:

- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
- EXACT LOCATIONS OF COLD PLANE ASPHALT CONCRETE PAVEMENT TO BE DETERMINED BY THE ENGINEER.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TEMPORARY DRAINAGE INLET PROTECTION

LOCATION PM	EA
1.35 TO 1.55	3
TOTAL	3

RUMBLE STRIP

LOCATION PM		CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
FROM	TO	Sta
2.01	R4.23	110.9
TOTAL		110.9

ROADWAY QUANTITIES

LOCATION / POST MILE LIMIT	(N) EB/WB	(N) WHEEL PATH Lt/Rt	(N) LENGTH LF	(N) WIDTH (Avg) LF	(N) DEPTH LF	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	HOT MIX ASPHALT (TYPE A) TON	TACK COAT TON	ASPHALTIC EMULSION (FOG SEAL COAT) TON
PM	EB/WB	Lt/Rt	LF	LF	LF	SQYD	TON	TON	TON	TON
1.35 - 1.55	EB/WB		1,084	62.5	0.10	7,528	540		1.88	
1.55 - R4.23	EB/WB		13,260	45.0	0.10	66,300	4,760		16.57	
ROAD N	EB/WB		—	—	0.20	662		89	0.17	
ROAD O	EB/WB		—	—	0.20	788		106	0.20	
ROAD P	EB/WB		—	—	0.20	691		93	0.17	
ROAD Q	EB		—	—	0.20	375		51	0.09	
TEHAMA-COLUSA CANAL Br	EB/WB		—	—						0.09
1.320 - 1.380	WB	R+	315	6	0.25	210		35	0.05	
1.408 - 1.430	WB	Lt/R+	115	12	0.25	153		26	0.04	
1.544 - 1.589	WB	R+	240	6	0.25	160		27	0.04	
1.680 - 1.790	WB	R+	580	6	0.25	387		65	0.10	
1.850 - 1.993	WB	R+	755	6	0.25	503		85	0.13	
1.992 - 2.011	WB	Lt/R+	100	12	0.25	133		23	0.03	
2.025 - 2.051	WB	R+	140	6	0.25	93		16	0.02	
2.192 - 2.215	EB	R+	120	6	0.25	80		14	0.02	
2.250 - 2.264	EB	R+	75	6	0.25	50		8	0.01	
2.432 - 2.463	WB	R+	165	6	0.25	110		19	0.03	
2.485 - 2.590	WB	Lt/R+	555	12	0.25	740		125	0.19	
2.643 - 2.707	WB	R+	340	6	0.25	227		38	0.06	
2.730 - 2.830	EB	R+	530	6	0.25	353		60	0.09	
2.870 - 2.928	WB	Lt/R+	310	12	0.25	413		70	0.10	
3.173 - 3.236	WB	R+	335	6	0.25	223		38	0.06	
3.450 - 3.465	EB	R+	80	6	0.25	53		9	0.01	
3.514 - 3.837	WB	R+	1,705	6	0.25	1,137		192	0.28	
TOTAL						81,369	5,300	1189	20.34	0.09

— SEE CONSTRUCTION DETAILS FOR INFORMATION NOT SHOWN.

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: PATRICK BISHOP
 CALCULATED/DESIGNED BY: JESSE GARCIA
 CHECKED BY: ROBERT FLOYD
 REVISED BY: JESSE GARCIA
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	9	14

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 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.

TO ACCOMPANY PLANS DATED 12-28-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

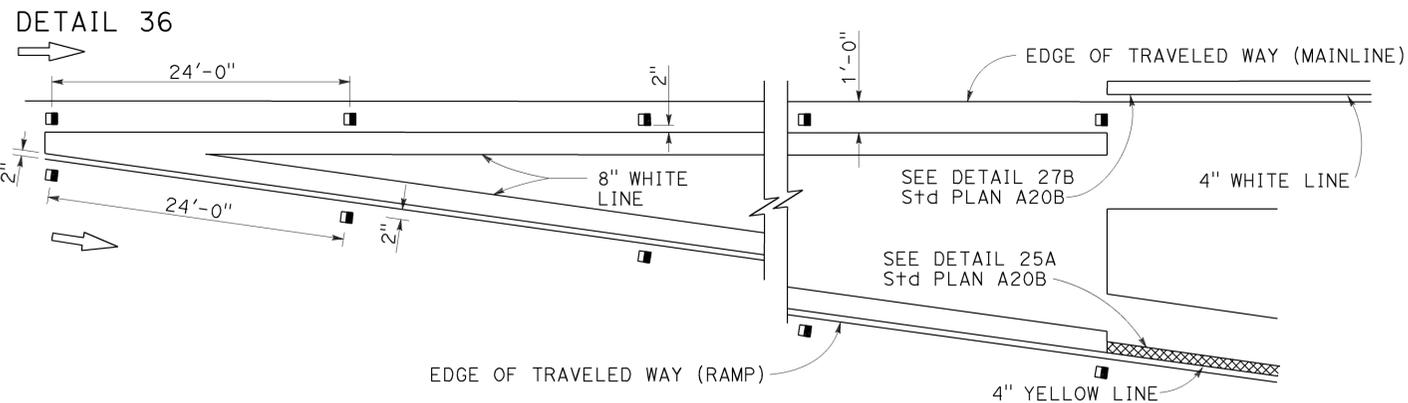
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
MtI	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT
N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE
Obir	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN
p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm MtI	PERMEABLE MATERIAL

M	
P continued	
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
PL, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT
Qty	QUANTITY
R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

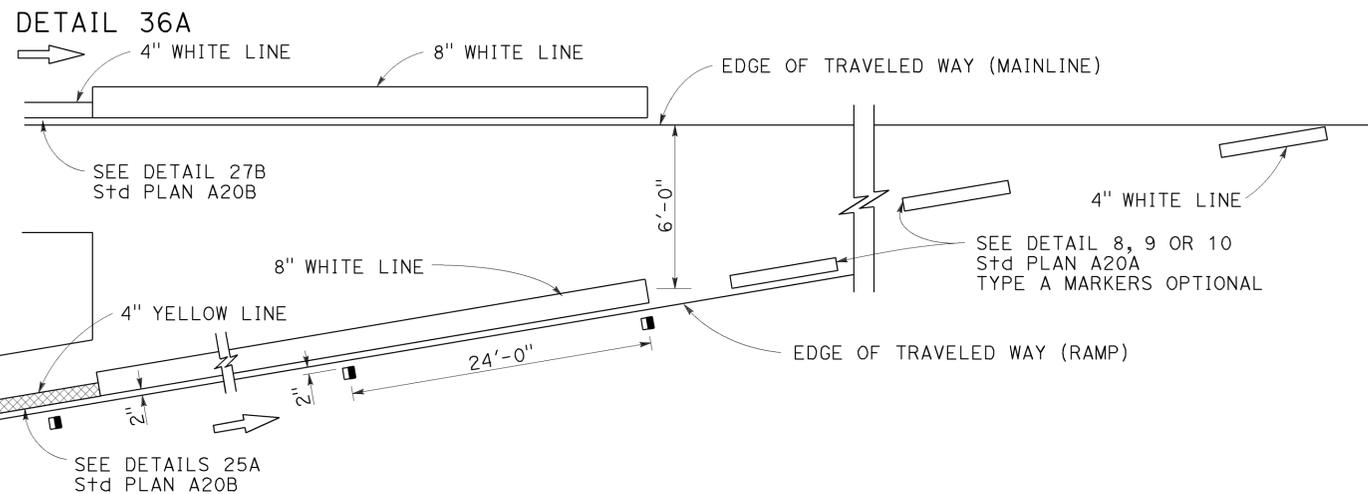
S	
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
T	
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
W	
W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLLOL	WINGWALL LAYOUT LINE
X Sec	CROSS SECTION
Xing	CROSSING
Yr	YEAR
Yrs	YEARS

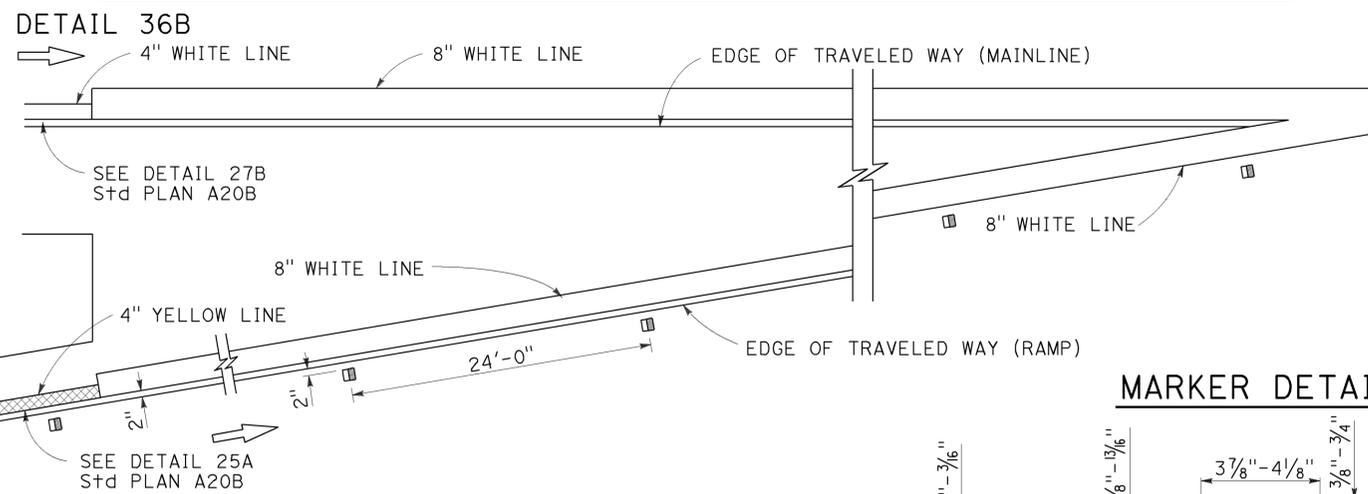
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



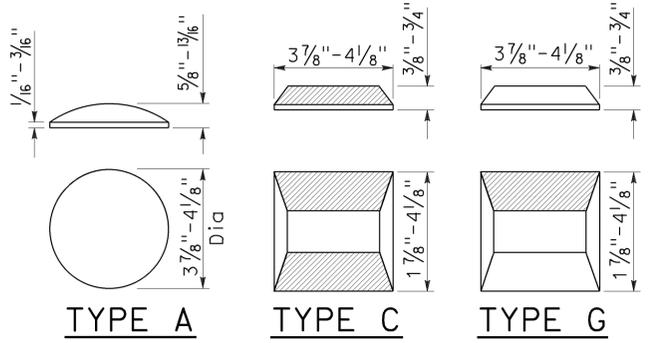
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT



MARKER DETAILS

LEGEND:

- MARKERS
- TYPE A WHITE NON-REFLECTIVE
 - ◻ TYPE C RED-CLEAR RETROREFLECTIVE
 - TYPE G ONE-WAY CLEAR RETROREFLECTIVE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	10	14

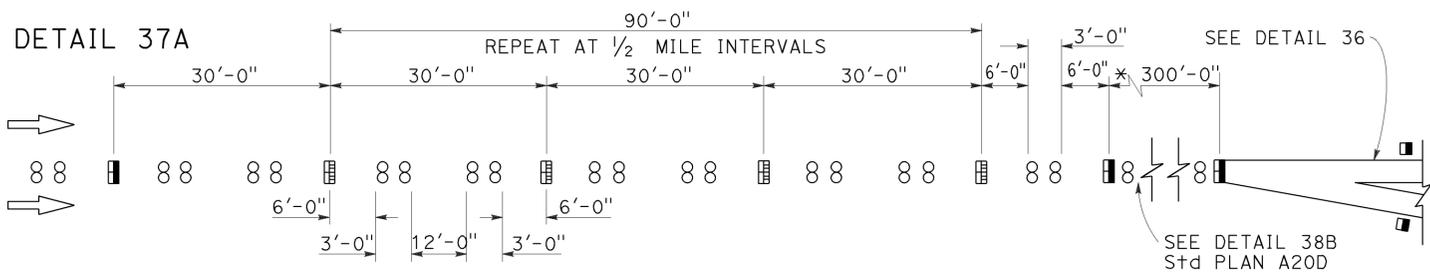
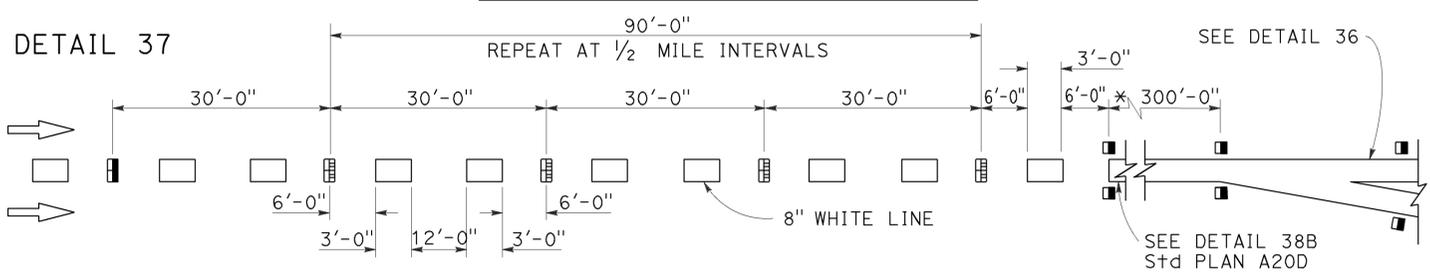
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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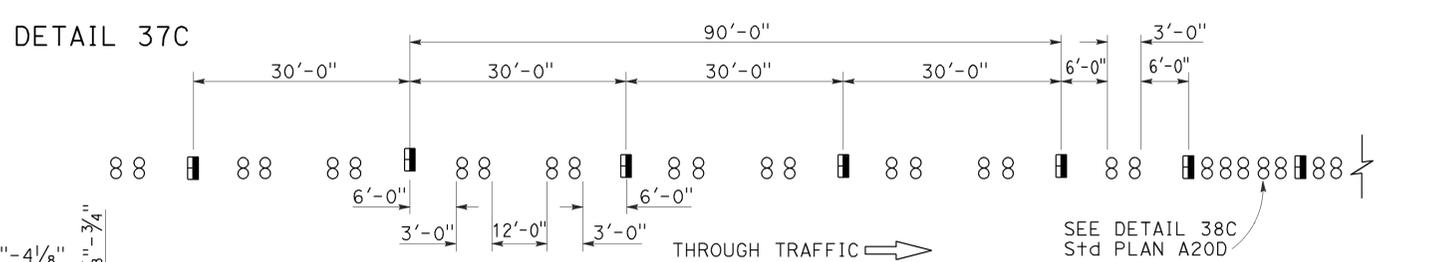
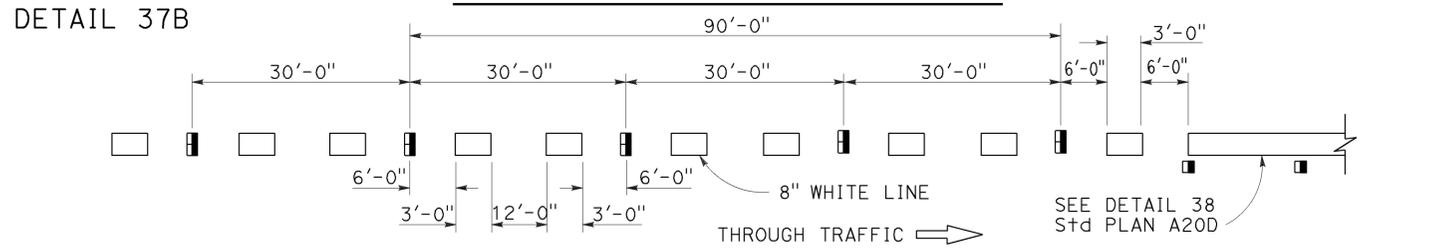
TO ACCOMPANY PLANS DATED 12-28-15

LANE DROP AT EXIT RAMP



* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

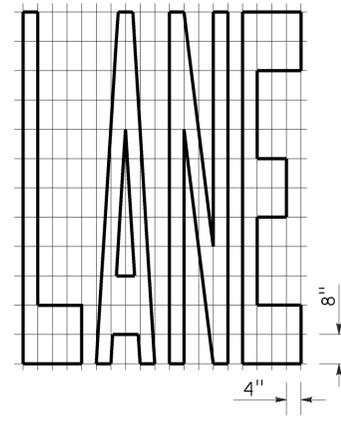
NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

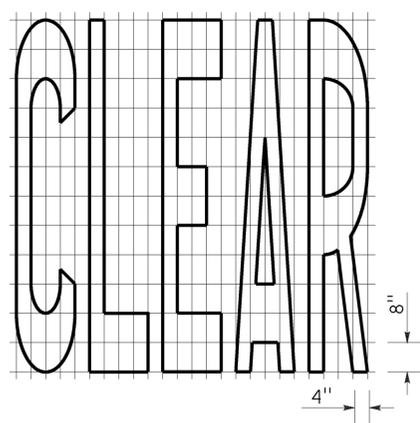
REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

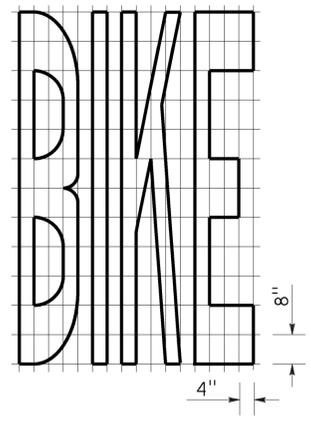
TO ACCOMPANY PLANS DATED 12-28-15



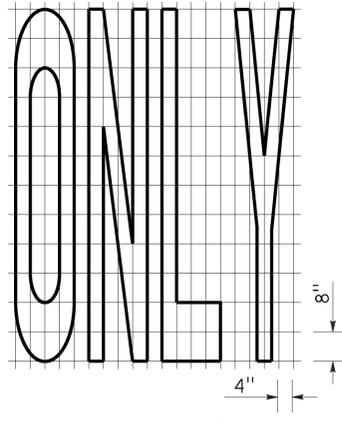
A=24 ft²



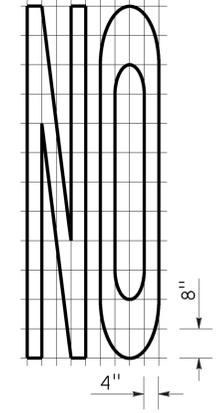
A=27 ft²



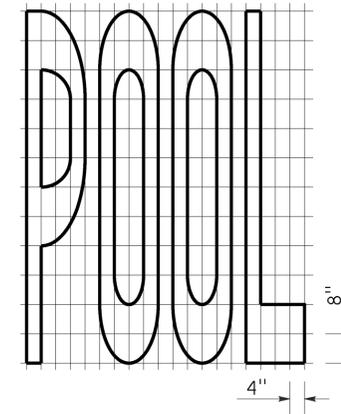
A=21 ft²



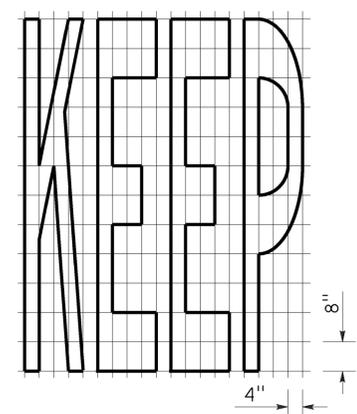
A=22 ft²



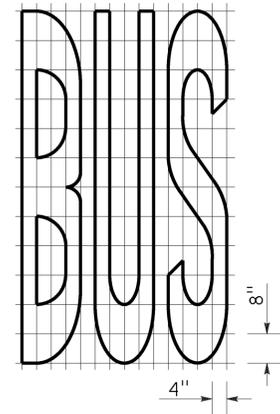
A=14 ft²



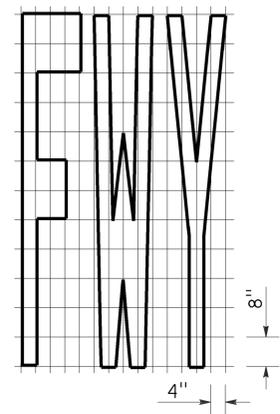
A=23 ft²



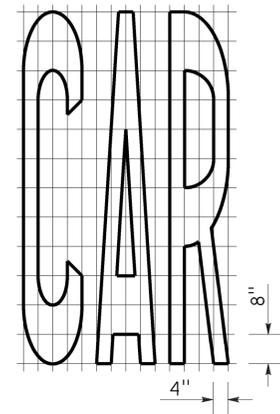
A=24 ft²



A=20 ft²

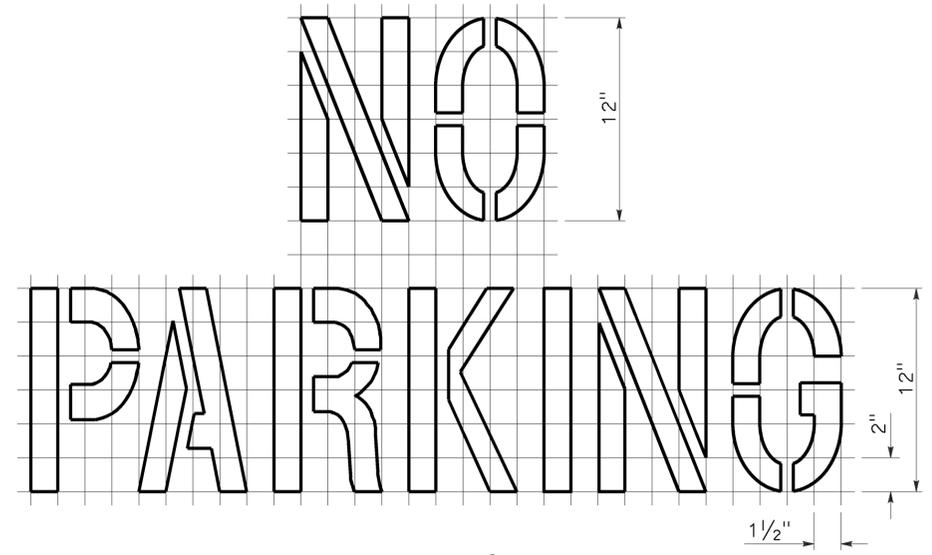


A=16 ft²

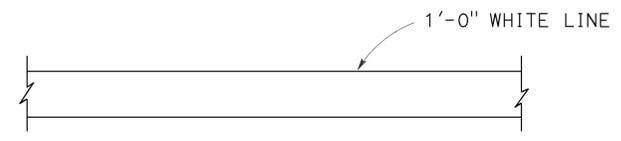


A=17 ft²

WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

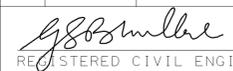
NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**
NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	12	14


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 12-28-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T9

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle	32	1.3/R4.3	13	14

Devinder Singh
REGISTERED CIVIL ENGINEER

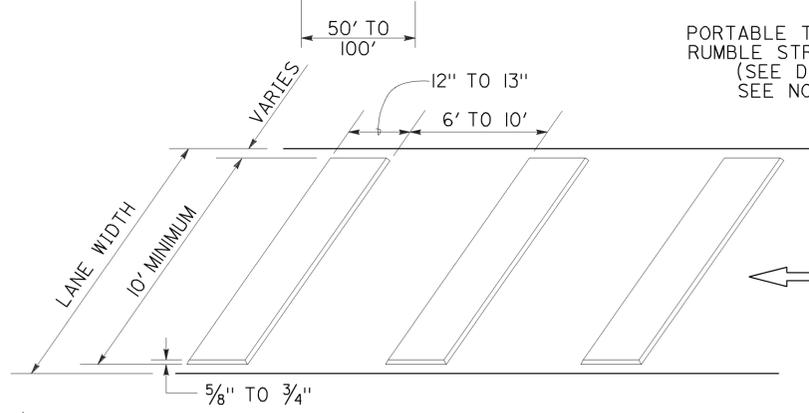
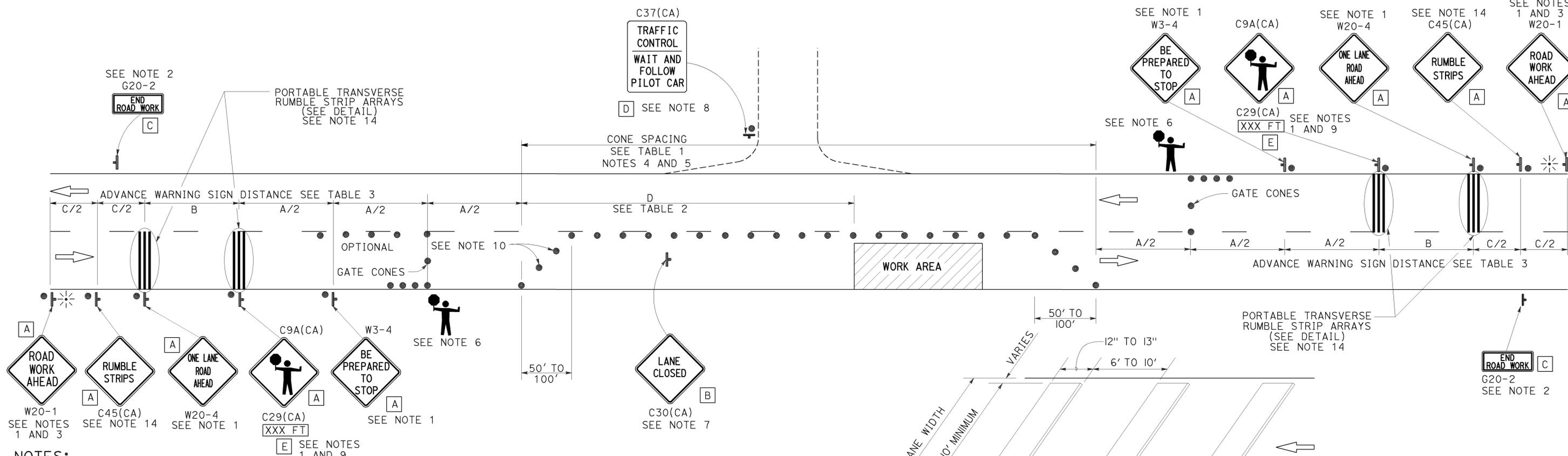
October 30, 2015
PLANS APPROVAL DATE

Devinder Singh
No. C50470
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

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TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 12-28-15



LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

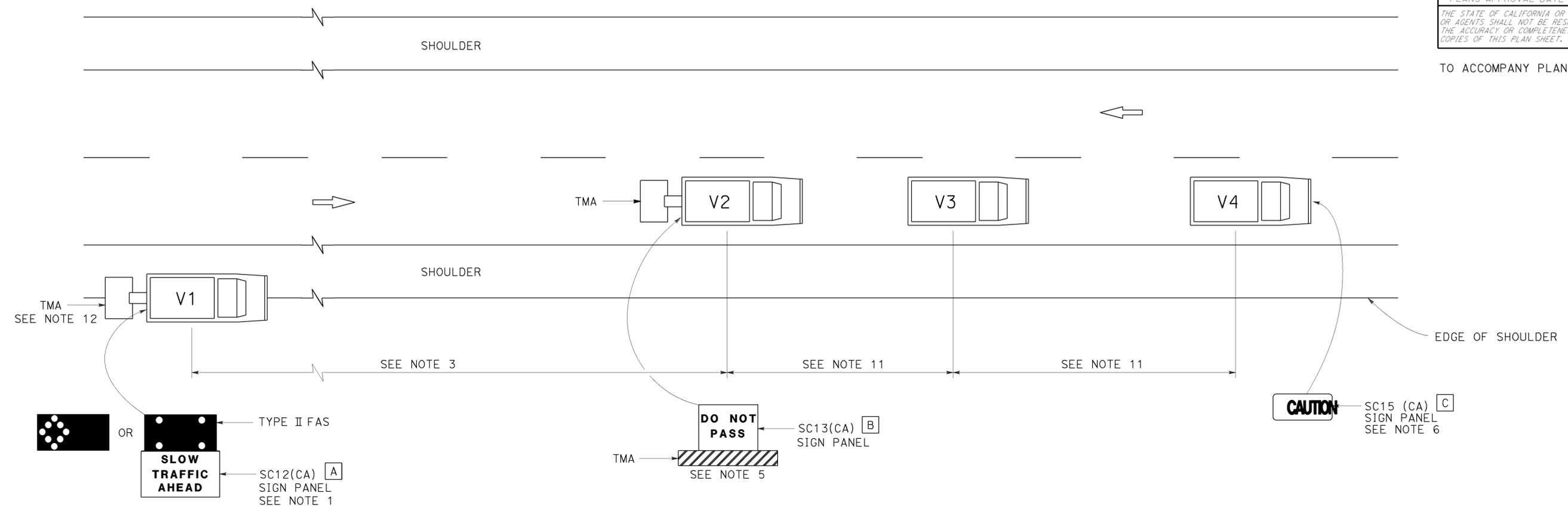
NOTES:

- Each advance warning sign in each direction of travel 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, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- 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.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions

2010 REVISED STANDARD PLAN RSP T13



TO ACCOMPANY PLANS DATED 12-28-15



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- V4 SIGN VEHICLE
- TMA TRUCK-MOUNTED ATTENUATOR
-  FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
-  FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

- A** 72" x 42"
- B** 54" x 42"
- C** 54" x 24"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17