

SHEET No.	INDEX OF PLANS DESCRIPTION
1	TITLE AND LOCATION MAP
2-4	TYPICAL CROSS SECTIONS
5-9	CONSTRUCTION DETAILS
10	CONSTRUCTION AREA SIGNS
11	TRAFFIC HANDLING PLAN
12-13	PAVEMENT DELINEATION QUANTITIES
14-16	SUMMARY OF QUANTITIES
17-25	REVISED STANDARD PLANS

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

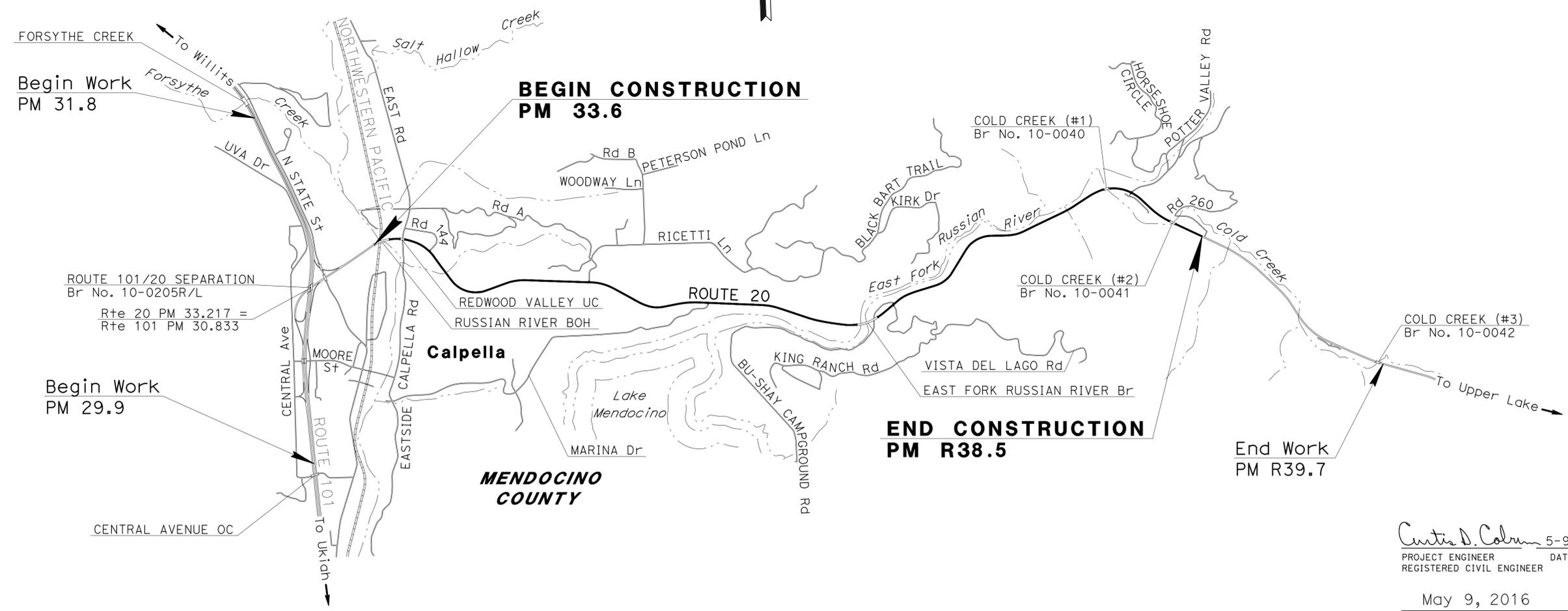
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MENDOCINO COUNTY NEAR CALPELLA
FROM RUSSIAN RIVER BRIDGE AND OVERHEAD
TO 0.2 MILE EAST OF COLD CREEK (#2) BRIDGE No. 10-0041

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	1	25

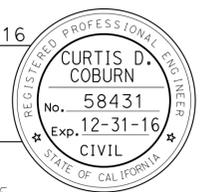
LOCATION MAP



PROJECT MANAGER
TOM FITZGERALD

DESIGN MANAGER
TOM FITZGERALD

Curtis D. Coburn 5-9-16
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 May 9, 2016
 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.	01-0G0904
PROJECT ID	0116000123

LAST REVISION: 04-25-16
DATE PLOTTED => 06-JUL-2016
TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	2	25

Curtis D. Coburn 5-9-16
 REGISTERED CIVIL ENGINEER DATE
 May 9, 2016
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CURTIS D. COBURN
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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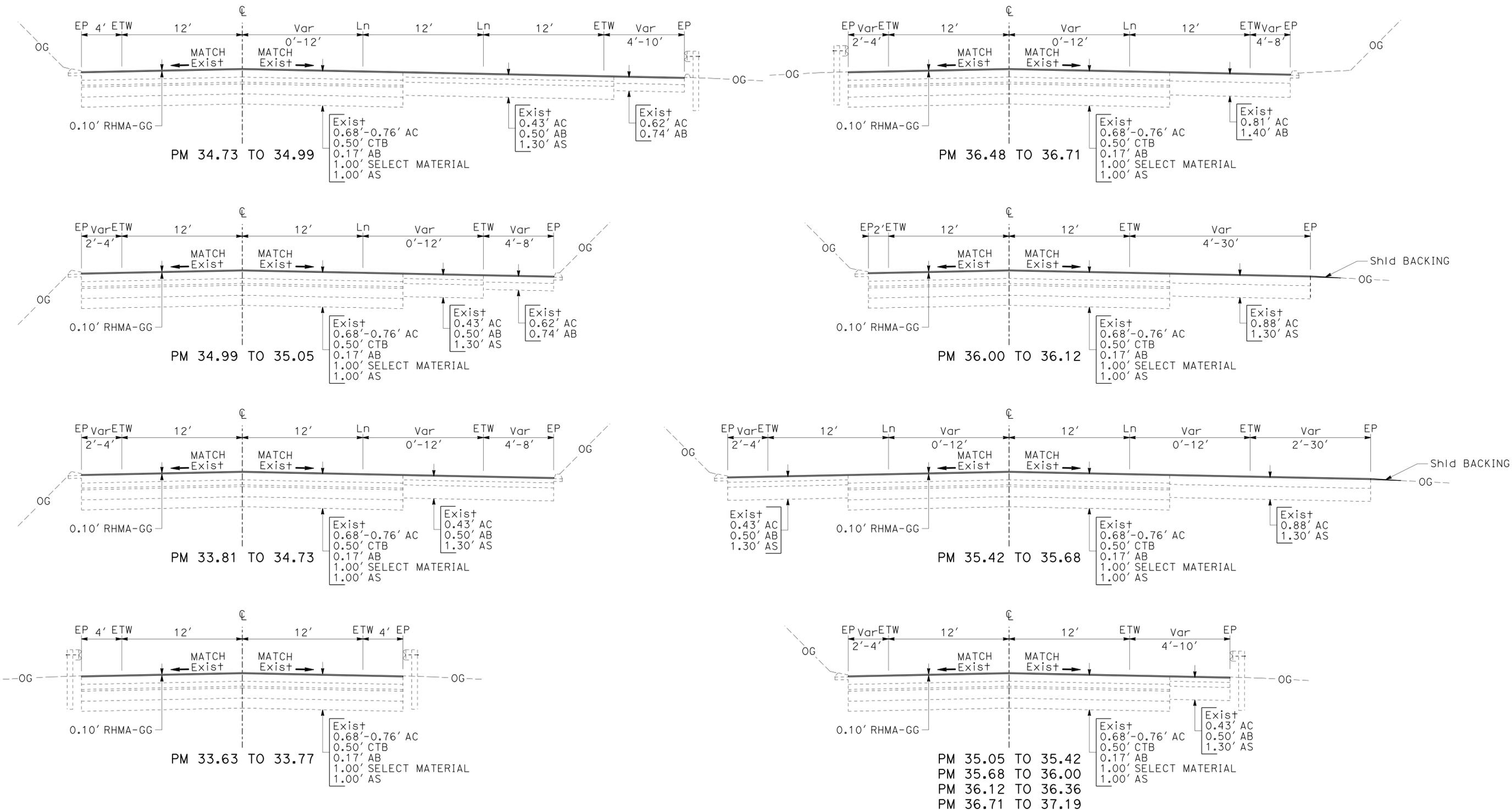
NOTES:

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.

LEGEND:

- RHMA-GG = RUBBERIZED HOT MIX ASPHALT (GAP-GRADED)
 HMA-A = HOT MIX ASPHALT (TYPE A)

PAVEMENT CLIMATE REGION: LOW MOUNTAIN



EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

ROUTE 20

TYPICAL CROSS SECTIONS X-1

NO SCALE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: TOM FITZGERALD
 CALCULATED/DESIGNED BY: JOHNATHON JACKSON
 CHECKED BY: CURTIS COBURN
 REVISED BY: DATE
 REVISIONS:

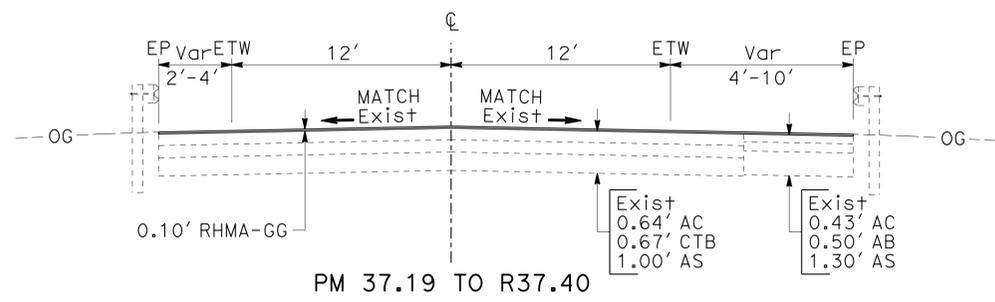
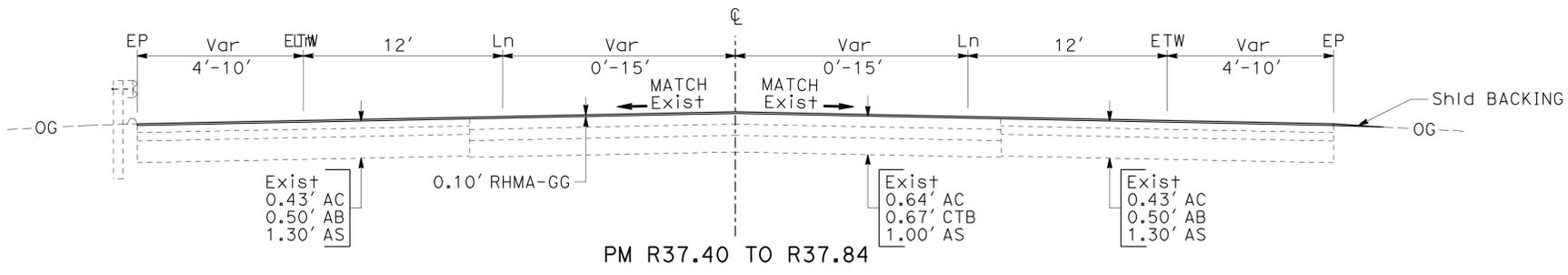
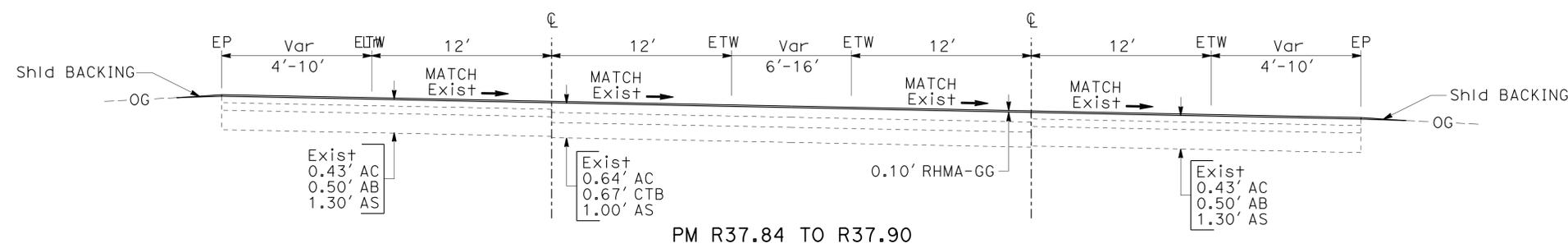
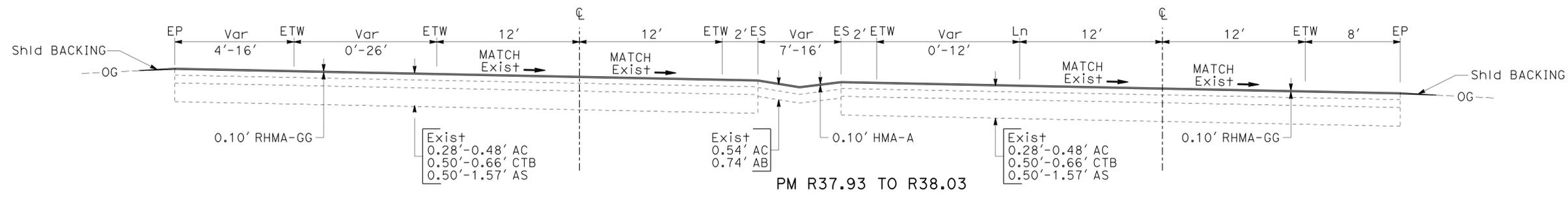
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	3	25

Curtis D. Coburn 5-9-16
 REGISTERED CIVIL ENGINEER DATE
 May 9, 2016
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REGISTERED PROFESSIONAL ENGINEER
 CURTIS D. COBURN
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: TOM FITZGERALD
 CHECKED BY: JOHNATHAN JACKSON
 DESIGNED BY: CURTIS COBURN
 REVISIONS: (None listed)



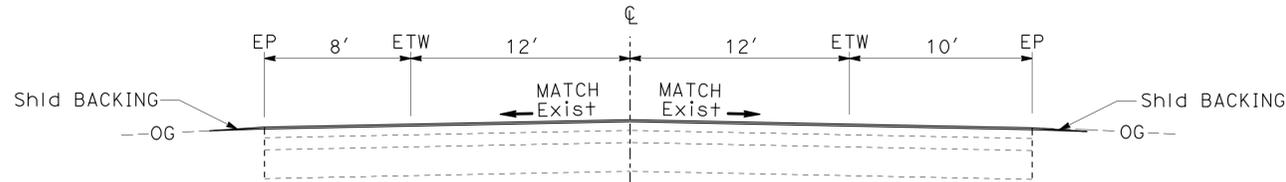
EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

ROUTE 20

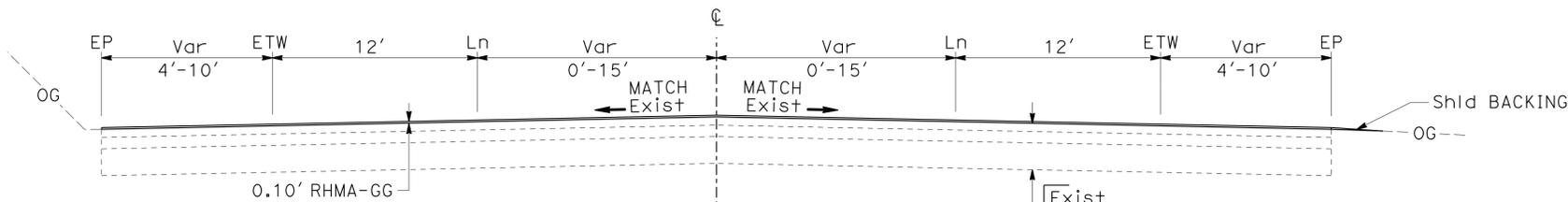
TYPICAL CROSS SECTIONS X-2

NO SCALE

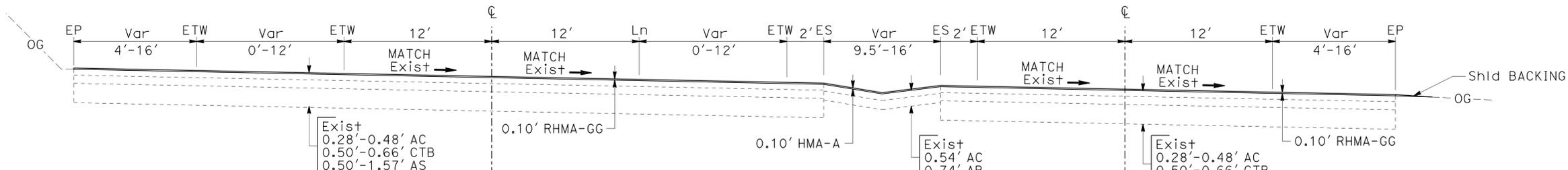
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	4	25
Curtis D. Coburn			5-9-16	REGISTERED CIVIL ENGINEER DATE	
May 9, 2016			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



PM R38.45 TO R38.50



PM R38.20 TO R38.31
PM R38.34 TO R38.45



PM R38.07 TO R38.20



PM R38.03 TO R38.07

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

ROUTE 20

TYPICAL CROSS SECTIONS X-3

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

REVISOR BY DATE

JOHNATHAN JACKSON
CURTIS COBURN

CALCULATED/DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
TOM FITZGERALD

USERNAME => johnathon.jackson
DGN FILE => 0116000123ca003.dgn

RELATIVE BORDER SCALE 1" = 15' IN INCHES

UNIT 0052

PROJECT NUMBER & PHASE 01160001231

LAST REVISION DATE PLOTTED => 08-JUL-2016
04-25-16 TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	5	25

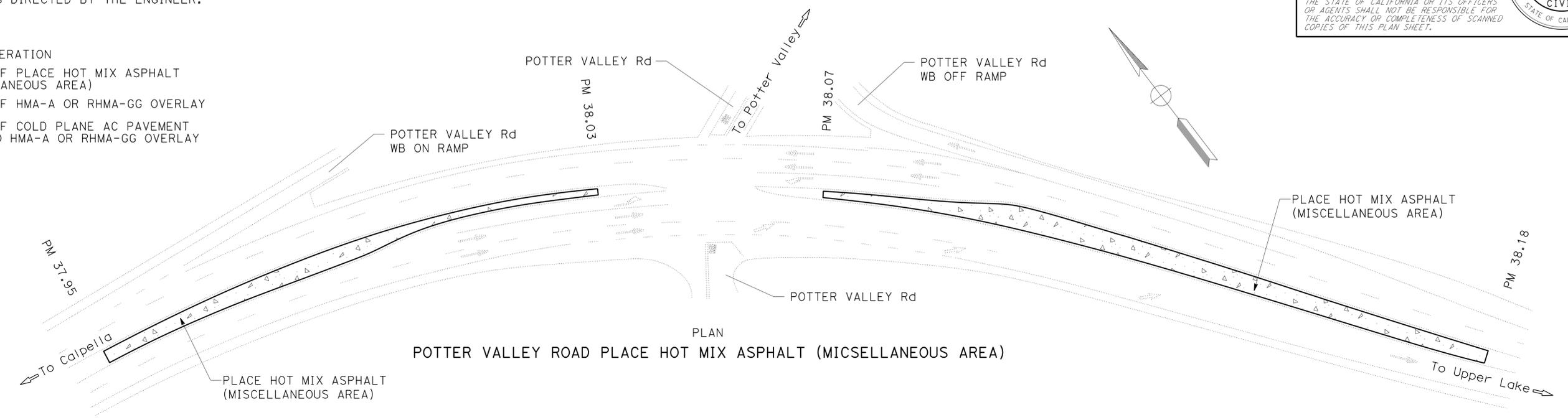
Curtis D. Coburn 5-9-16
 REGISTERED CIVIL ENGINEER DATE
 May 9, 2016
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CURTIS D. COBURN
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

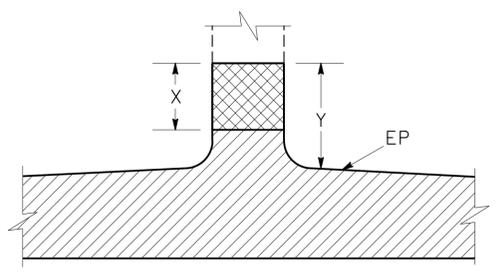
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.

- LEGEND:**
- ACCEL = ACCELERATION
 - LIMITS OF PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)
 - LIMITS OF HMA-A OR RHMA-GG OVERLAY
 - LIMITS OF COLD PLANE AC PAVEMENT PRIOR TO HMA-A OR RHMA-GG OVERLAY



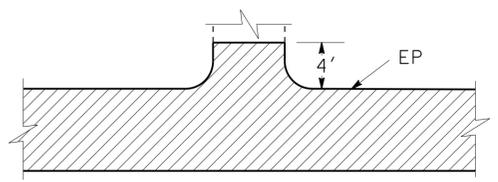
PLAN
POTTER VALLEY ROAD PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)



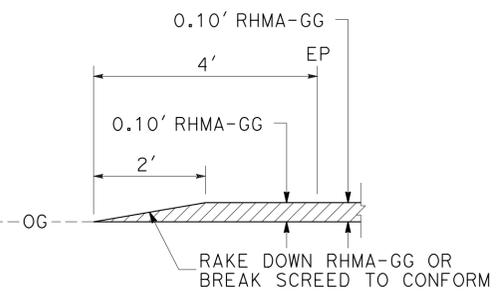
PUBLIC ROAD CONNECTION

LOCATION	PM	X	Y
		FT	
ROAD 144	33.94 Lt	20	195
ROAD A	34.89 Lt	20	90
MARINA Dr	35.55 Rt	20	75
VISTA DEL LAGO Rd	36.58 Rt	20	30
BU-SHAY CAMPGROUND Rd	36.59 Lt	20	75
POTTER VALLEY Rd ONRAMP	R37.99 Lt	40	104
POTTER VALLEY Rd	R38.05 Lt	20	62
POTTER VALLEY Rd	R38.05 Rt	20	39
POTTER VALLEY Rd OFFRAMP	R38.08 Lt	40	98

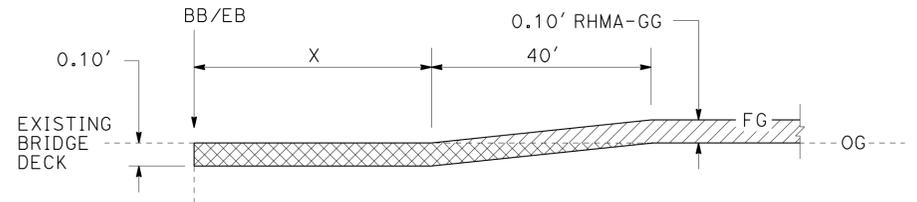
LIMITS OF SURFACING
PUBLIC ROAD CONNECTIONS



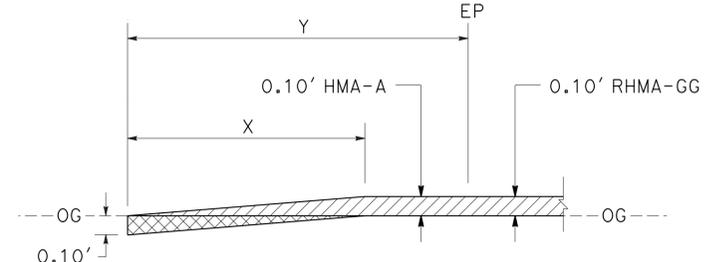
LIMITS OF SURFACING
PRIVATE ROAD CONNECTIONS



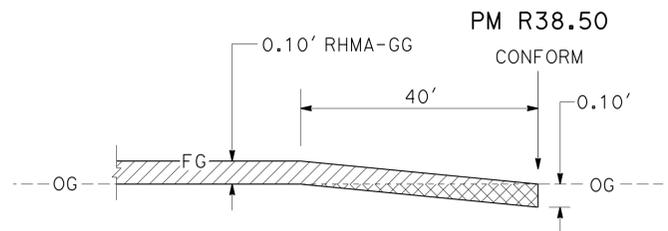
RHMA CONFORM



COLD PLANE AC PAVEMENT
AT BB & EB



HMA CONFORM



COLD PLANE AC PAVEMENT
AT EAST PROJECT CONFORM

DESCRIPTION	PM	X FT
EB RUSSIAN RIVER BRIDGE AND OVERHEAD	33.72	0
BB REDWOOD VALLEY UNDERCROSSING Br	33.77	0
EB REDWOOD VALLEY UNDERCROSSING Br	33.79	0
BB EAST FORK RUSSIAN RIVER Br	36.36	0
EB EAST FORK RUSSIAN RIVER Br	36.48	0
BB COLD CREEK (#1) Br No. 10-0040	R37.90	40
EB COLD CREEK (#1) Br No. 10-0040	R37.93	55
BB COLD CREEK (#2) Br No. 10-0041	R38.31	17
EB COLD CREEK (#2) Br No. 10-0041	R38.34	17

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

**CONSTRUCTION DETAILS
C-1**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: TOM FITZGERALD
 CALCULATED/DESIGNED BY: JOHNATHAN JACKSON
 CHECKED BY: CURTIS COBURN
 REVISED BY: DATE REVISION

USERNAME => johnathan.jackson
DGN FILE => 0116000123ga001.dgn



UNIT 0052

PROJECT NUMBER & PHASE

01160001231

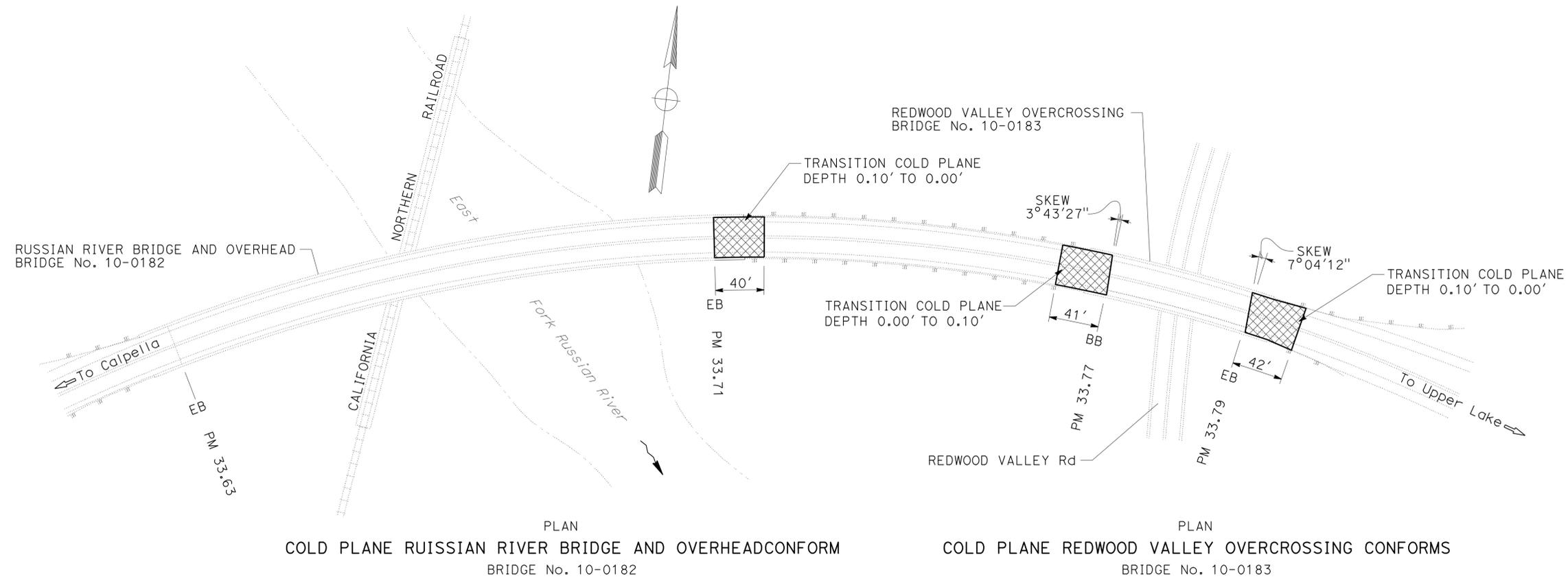
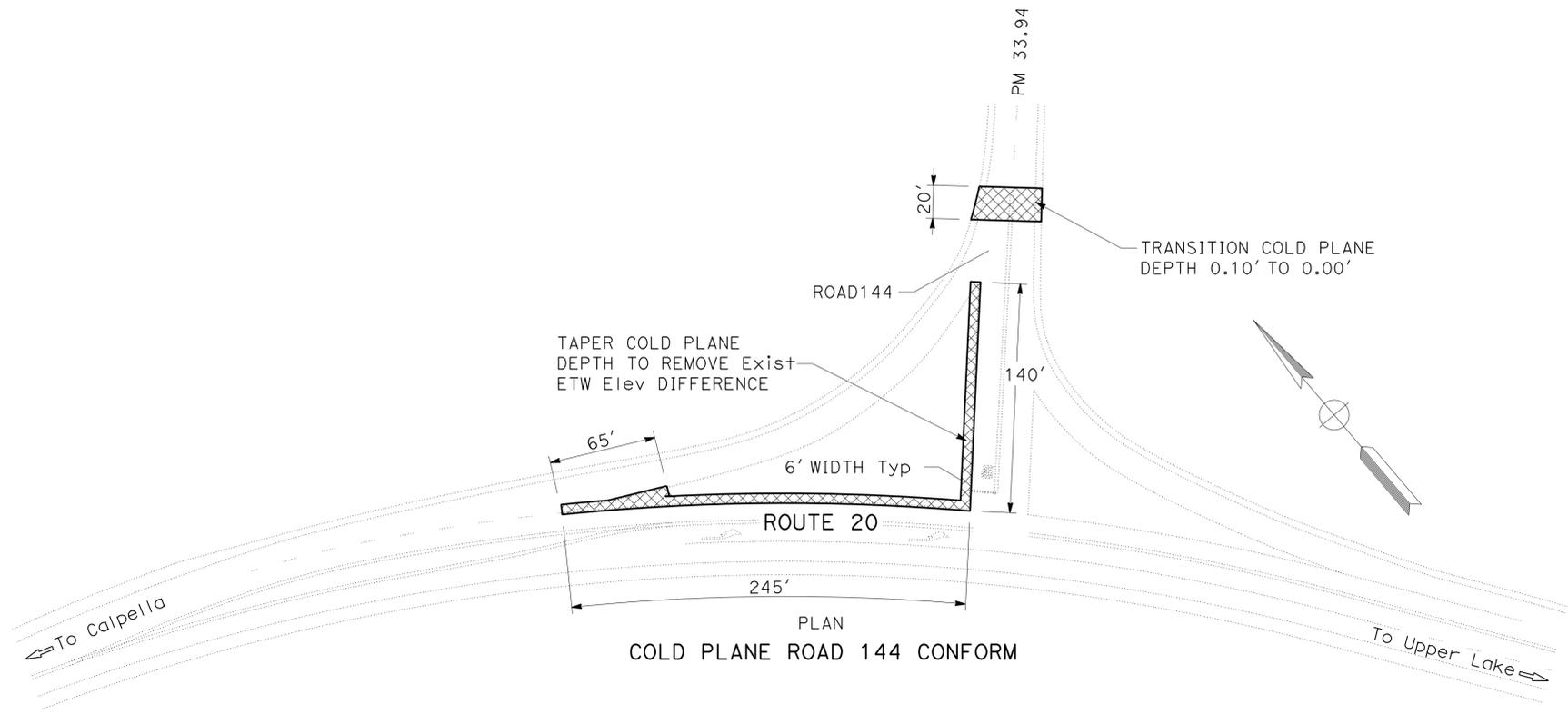
LAST REVISION: DATE PLOTTED => 08-JUL-2016
 04-25-16 TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	6	25

Curtis D. Coburn 5-9-16
 REGISTERED CIVIL ENGINEER DATE
 May 9, 2016
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CURTIS D. COBURN
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

C-2

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE DESIGN	TOM FITZGERALD	JOHNATHAN JACKSON	
		CURTIS COBURN	

USERNAME => johnathon.jackson
 DGN FILE => 0116000123ga002.dgn



UNIT 0052

PROJECT NUMBER & PHASE

01160001231

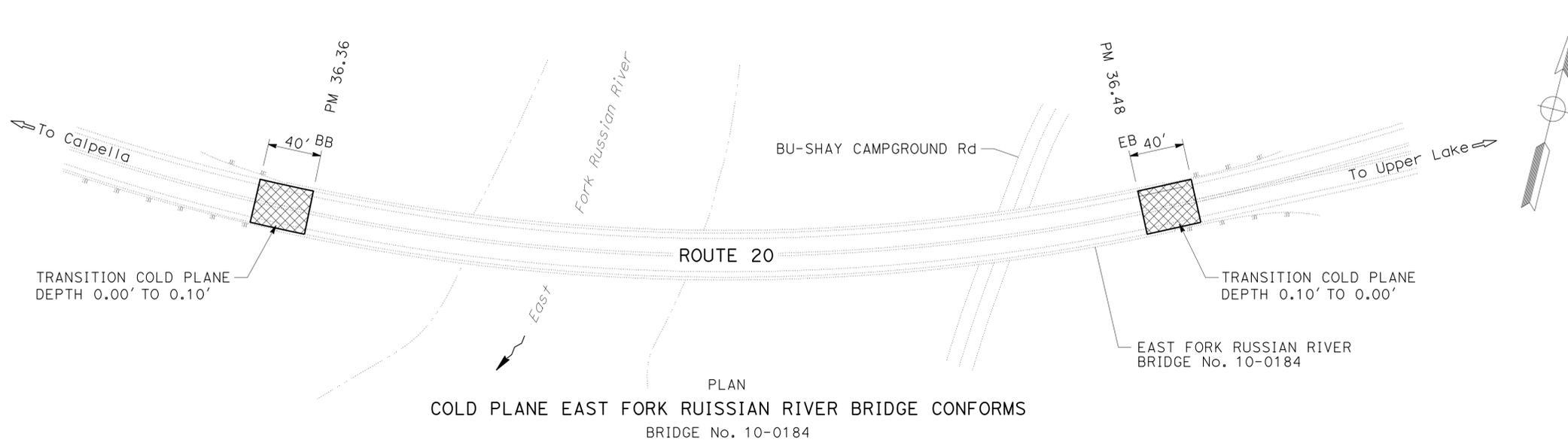
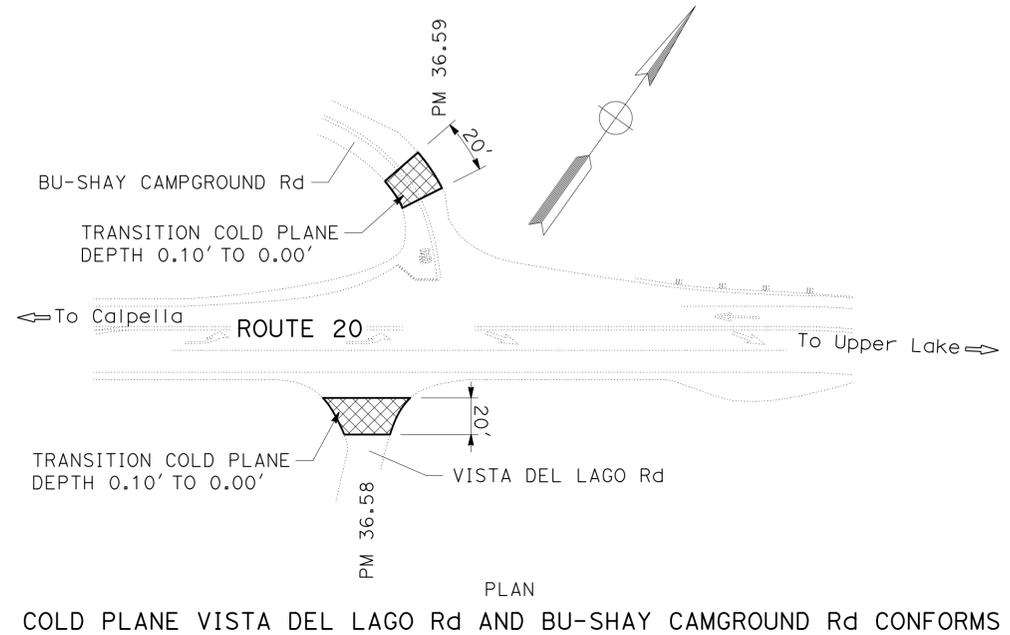
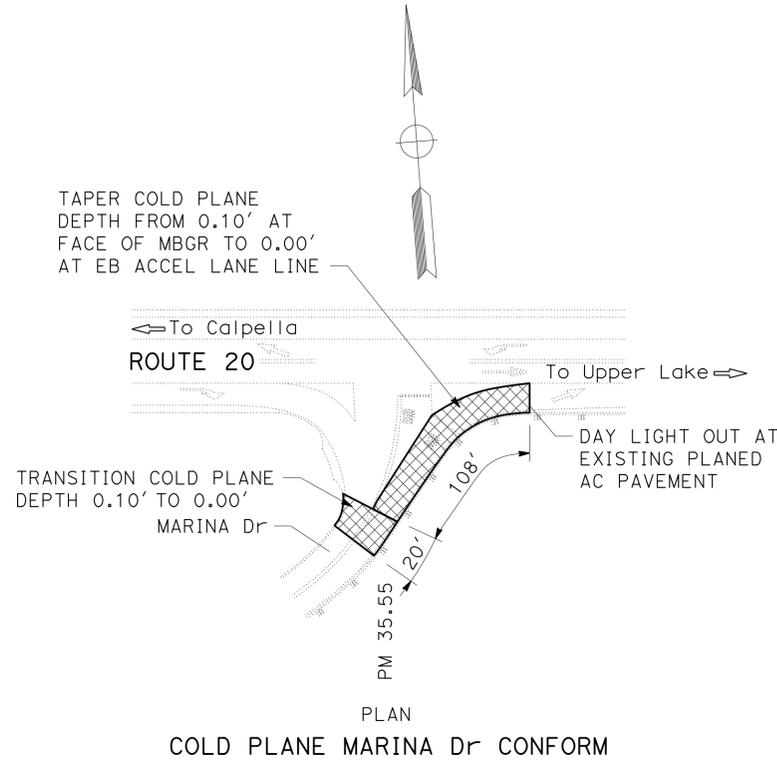
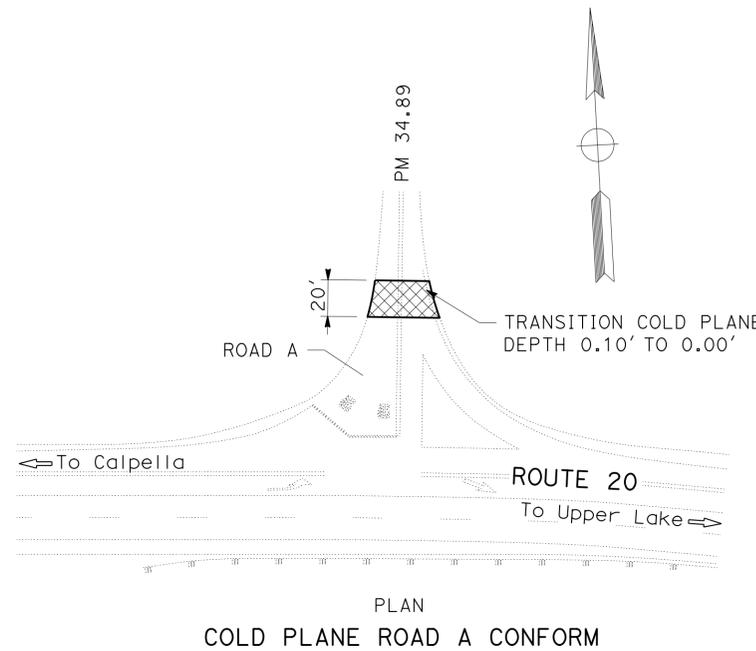
LAST REVISION DATE PLOTTED => 08-JUL-2016
 04-25-16 TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	7	25

Curtis D. Coburn 5-9-16
 REGISTERED CIVIL ENGINEER DATE
 May 9, 2016
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CURTIS D. COBURN
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
C-3

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD

CALCULATED/DESIGNED BY: JOHNATHON JACKSON
 CHECKED BY: CURTIS COBURN

REVISOR: JOHNATHON JACKSON
 DATE: []

REVISOR: CURTIS COBURN
 DATE: []

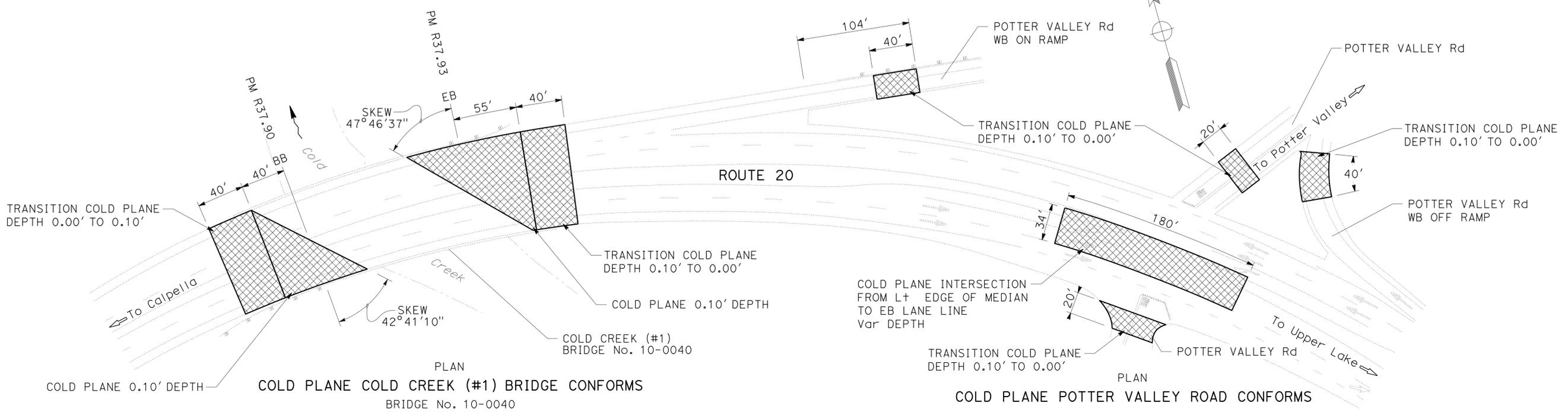


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	8	25

Curtis D. Coburn		5-9-16
REGISTERED CIVIL ENGINEER	DATE	
May 9, 2016		
PLANS APPROVAL DATE		

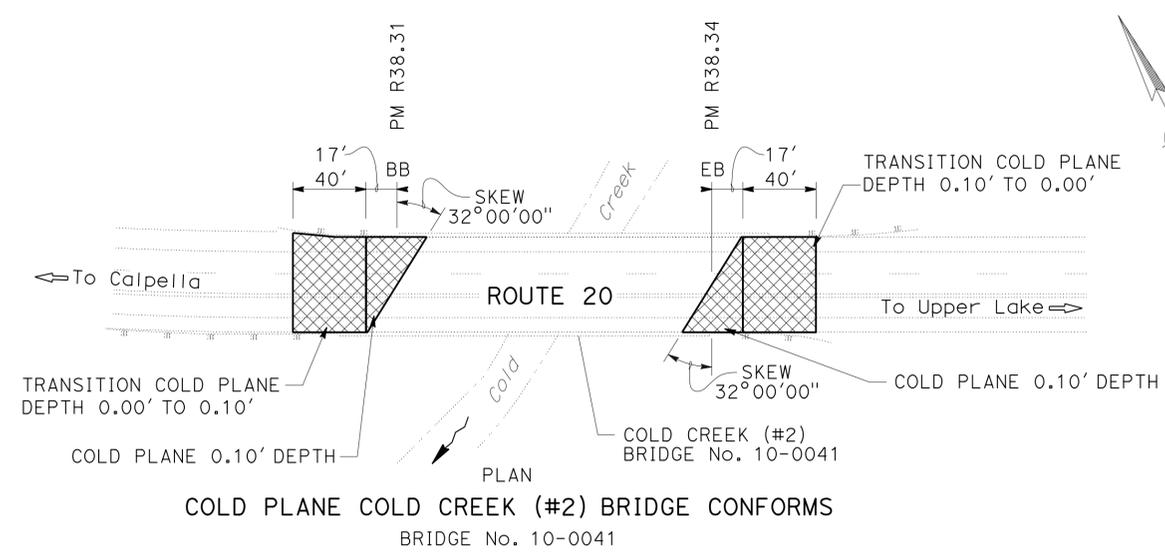
REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-16
CIVIL

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PLAN
COLD PLANE COLD CREEK (#1) BRIDGE CONFORMS
BRIDGE No. 10-0040

PLAN
COLD PLANE POTTER VALLEY ROAD CONFORMS



PLAN
COLD PLANE COLD CREEK (#2) BRIDGE CONFORMS
BRIDGE No. 10-0041

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

C-4

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
 CALCULATED/DESIGNED BY: JOHNATHAN JACKSON
 CHECKED BY: CURTIS COBURN
 REVISED BY: [] DATE: []
 REVISIONS: []

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	9	25

Curtis D. Coburn 5-9-16
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REGISTERED PROFESSIONAL ENGINEER
 CURTIS D. COBURN
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

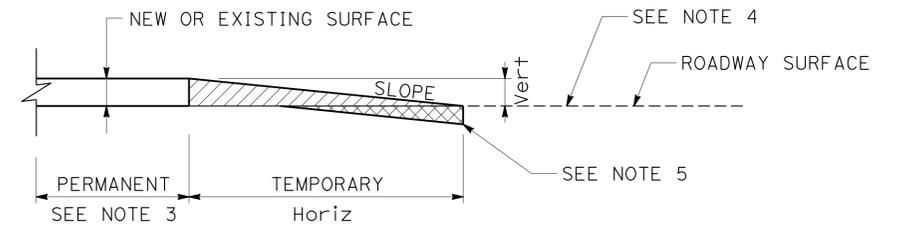
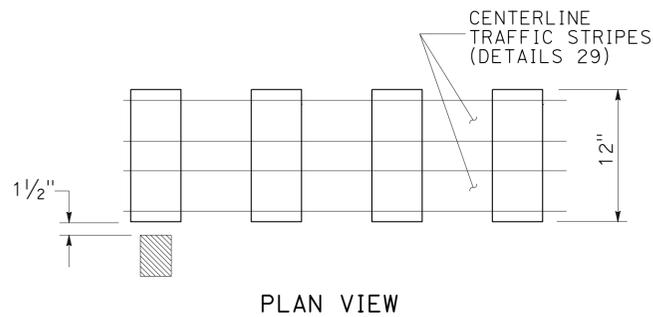
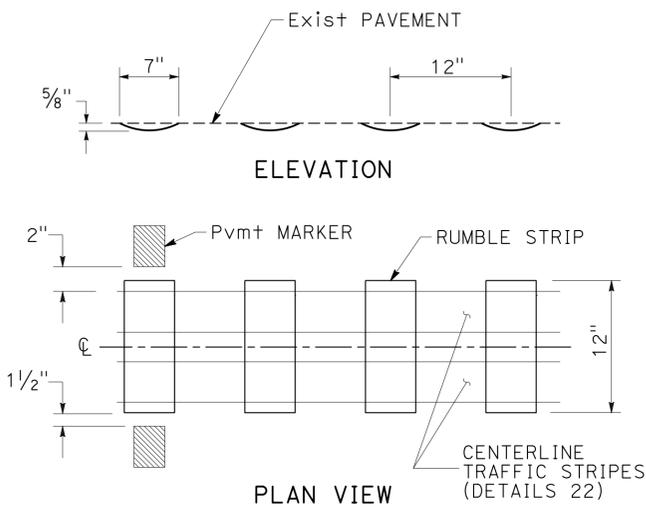
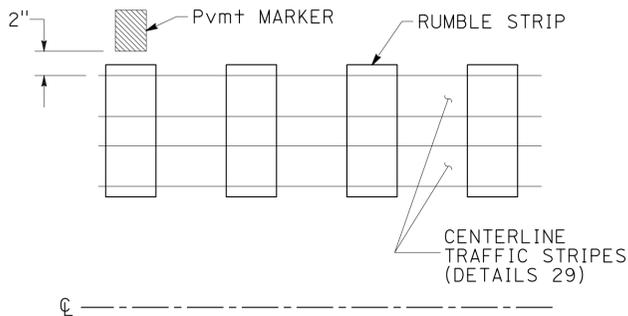
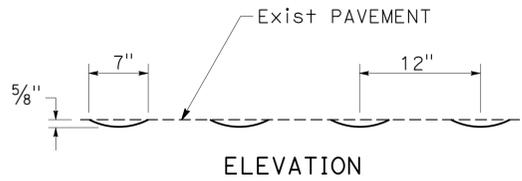
THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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 COPIES OF THIS PLAN SHEET.

NOTE:

- FOR GROUND-IN RUMBLE STRIP APPLICATIONS NOT SHOWN SEE STANDARD PLANS 2015.
- GRIND EXISTING SURFACES TO ACCOMODATE A MINIMUM TAPER THICKNESS OF 0.10' WHEN EITHER:
 - HMA MATERIAL SUCH AS RUBBERIZED, POLYMER MODIFIED OR OPEN GRADED IS UNSUITABLE FOR RAKING TO A MAXIMUM 0.02' THICKNESS AT THE CONFORM.
 - TEMPORARY TAPER WILL BE IN PLACE FOR MORE THAN 14 DAYS.
- PERMANENT SURFACE MAY BE EXISTING OR NEW PAVEMENT.
- ROADWAY SURFACE IS THE TOP OF EXISTING SURFACE OR THE TOP OF THE PLANED SURFACE.
- IF AUTHORIZED, YOU MAY USE ALTERNATIVE MATERIALS OR METHODS TO PRODUCE THE REQUIRED TAPER.

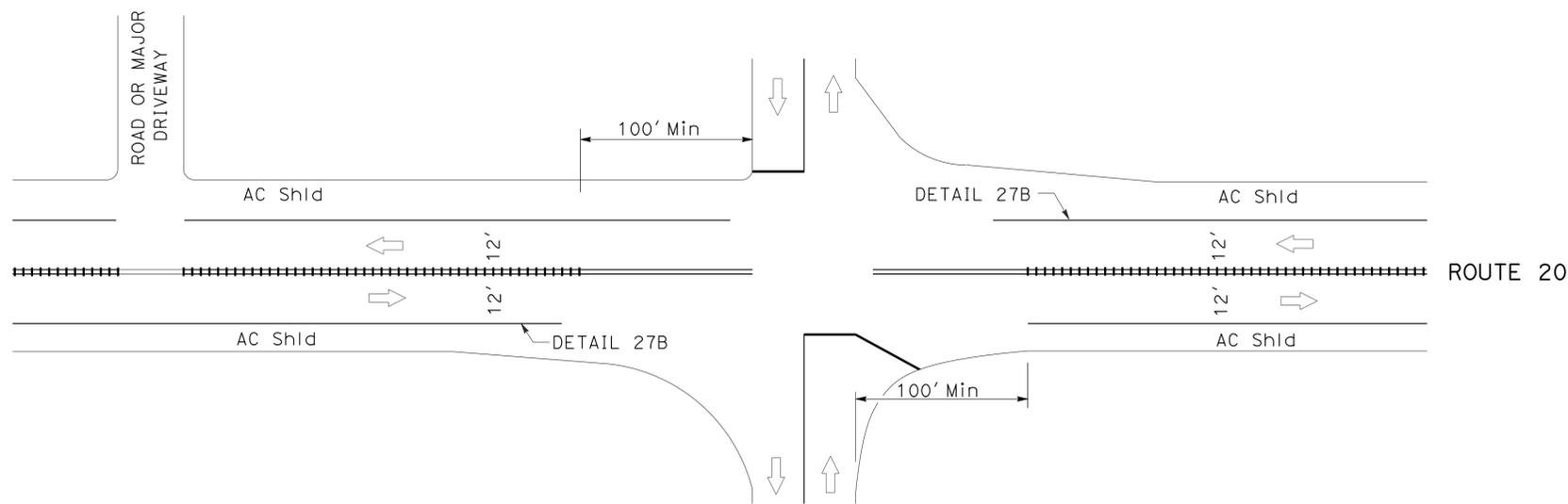
LEGEND:

- RUMBLE STRIP (GROUND-IN)
- ⇒ DIRECTION OF TRAVEL



Vert	SLOPE RATIO Horiz/Vert
0-0.10'	70:1
GREATER THAN 0.10'	160:1

TYPICAL PAVING CONFORM FOR TEMPORARY CONSTRUCTION TAPERS



INTERSECTING ROADS AND MAJOR DRIVEWAYS

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS C-5

NO SCALE

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01	Men	20	33.6/R38.5	10	25

Curtis D. Coburn		5-9-16
REGISTERED CIVIL ENGINEER	DATE	
May 9, 2016		
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REGISTERED PROFESSIONAL ENGINEER	CURTIS D. COBURN
No. 58431	Exp. 12-31-16
CIVIL	

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NOTE:

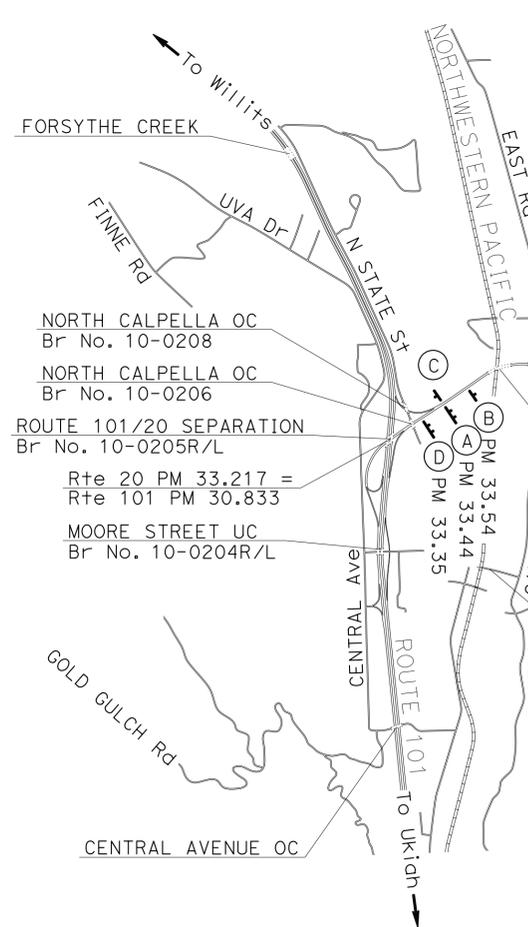
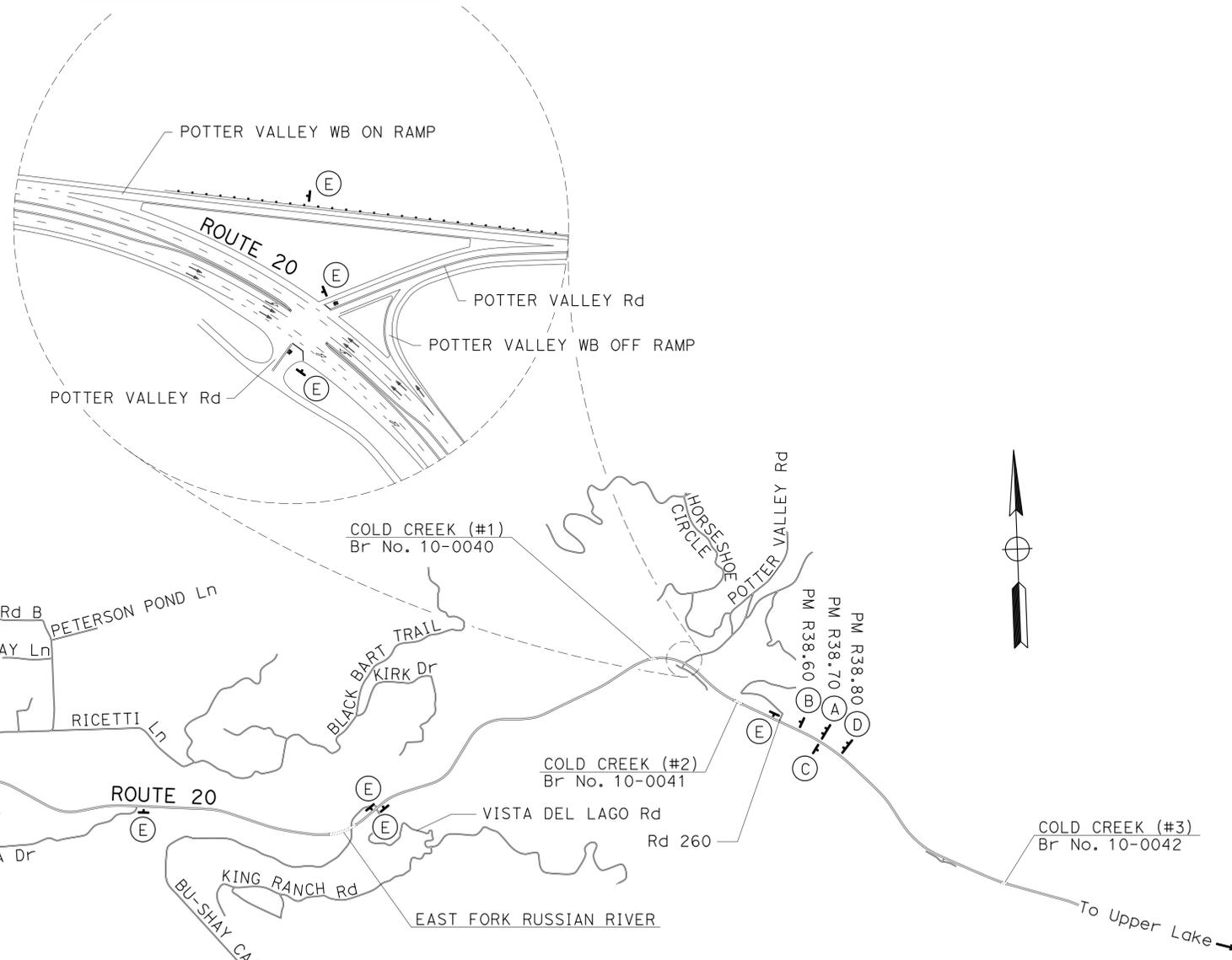
- EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS (N)
A	G20-1	ROAD WORK NEXT 4 MILES	60" x 36"	2 - 4" x 6"	2
	C23B(CA)	RESURFACING	60" x 18"		
B	W11-1	BICYCLE SYMBOL	36" x 36"	1 - 4" x 6"	2
	W16-1	SHARE THE ROAD	24" x 30"		
C	G20-2	END ROAD WORK	36" x 18"	1 - 4" x 4"	2
D	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108" x 42"	2 - 6" x 6"	2
E	W20-1	ROAD WORK AHEAD	36" x 36"	1 - 4" x 6"	9

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

C23B(CA)
60"x18"
BLACK/ORANGE
4" CAPS



EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

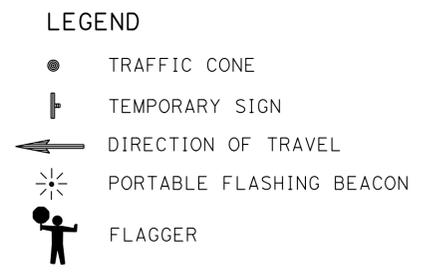
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
Tom Fitzgerald
Johnathon Jackson
Curtis Coburn

P:\PROJECTS\016000123\016000123.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRAFFIC OPERATIONS
 SHERI M. RODRIGUEZ
 TROY A. ARSENEAU
 RICHARD MULLEN

- NOTES:**
- CALIFORNIA CODES ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.
 - ALL SIGNS SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND AND SHALL BE EQUIPPED WITH AT LEAST TWO 16" x 16" ORANGE FLAGS FOR DAYTIME CLOSURE OR FLASHING BEACONS FOR LANE CLOSURE DURING HOURS OF DARKNESS.
 - ALL CONES USED FOR LANE CLOSURES DURING THE HOURS OF DARKNESS SHALL BE FITTED WITH RETROREFLECTIVE BANDS OR SLEEVES.
 - WHEN A PILOT CAR IS USED, PLACE A C37 (CA) SIGN AT ALL INTERSECTIONS WITHIN TRAFFIC CONTROL AREA. WHERE VEHICULAR TRAFFIC CAN NOT EFFECTIVELY SELF-REGULATE, AT LEAST ONE FLAGGER SHALL BE USED AT EACH INTERSECTION WITHIN THE TRAFFIC CONTROL AREA.
 - FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, FACING TRAFFIC AT ALL TIMES, BE VISIBLE TO APPROACHING TRAFFIC AS WELL AS APPROACHING VEHICLES AFTER THE FIRST VEHICLE HAS STOPPED.
 - ADDITIONAL ADVANCE FLAGGERS ARE REQUIRED DURING HOURS OF DAYLIGHT. A FULL MATRIC PCMS IN PLACE OF EACH ADVANCE FLAGGER REQUIRED DURING HOURS OF DARKNESS.
 - WHEN FLAGGER IS NOT VISIBLE FROM THIS LOCATION PLACE A C29 (CA) SIGN BELOW THE C9A (CA) SIGN.



SIGN PANEL SIZE (MINIMUM)

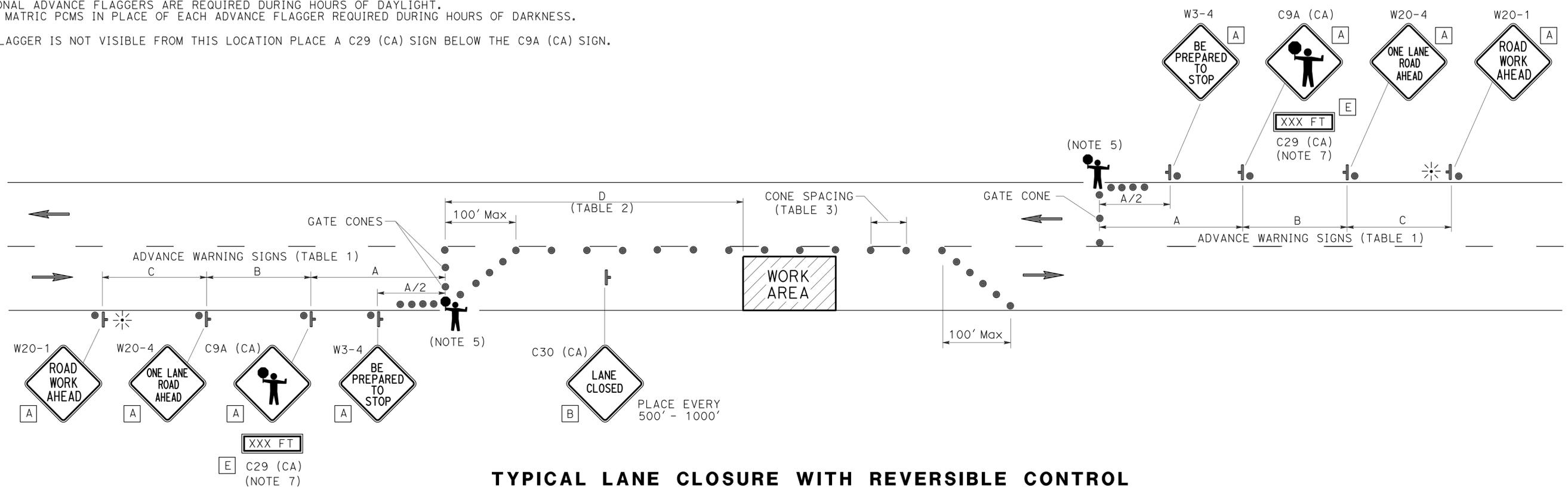
A	48" x 48" - SPEED OF 45 mph OR MORE 36" x 36" - SPEED LESS THAN 45 mph
B	30" x 30"
C	UNUSED
D	UNUSED
E	20" x 7"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	11	25

Sheri M. Rodriguez
 REGISTERED CIVIL ENGINEER
 DATE 11-13-15
 No. C66861
 Exp. 9-30-16
 CIVIL
 STATE OF CALIFORNIA

May 9, 2016
 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.



TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

**TABLE 1
ADVANCE WARNING SIGN SPACING**

ROAD TYPE	Min A	Min B	Min C
	ft		
URBAN (25 mph OR LESS)	100	100	100
URBAN (30 mph TO 40 mph)	250	250	250
URBAN (MORE THAN 40 mph)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

**TABLE 2
BUFFER SPACE**

APPROACH SPEED mph	Min D	DOWNGRADE Min D		
		-3%*	-6%*	-9%*
		ft		
25 & BELOW	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

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

**TABLE 3
Max CONE SPACING**

POSTED SPEED mph	TAPER	TANGENT	CONFLICT*
	ft		
20	20	40	10
25	25	50	12
30	30	60	15
35	35	70	17
40	40	80	20
45	45	90	22
50	50	100	25
55	55	110	27
60	60	120	30
65	65	130	32

* USE WHERE THERE IS A CONFLICT BETWEEN EXISTING PAVEMENT MARKINGS AND CHANNELIZERS.

TRAFFIC HANDLING PLAN
NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TH-1

LAST REVISION DATE PLOTTED => 08-JUL-2016
 TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	12	25

Curtis D. Coburn 5-9-16
REGISTERED CIVIL ENGINEER DATE

May 9, 2016
PLANS APPROVAL DATE

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TRAFFIC STRIPE AND PAVEMENT MARKER QUANTITIES

LOCATION (PM)		DETAIL NUMBER	DETAIL LENGTH (N)	THERMOPLASTIC TRAFFIC STRIPE						PAVEMENT MARKER					REMARKS		
				REMOVE	8" WHITE	4" YELLOW	4" WHITE	4" WHITE (BROKEN 12-3)	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 36-12)	(NONREFLECTIVE)		(RETROREFLECTIVE)			REMOVE (N)	
FROM	TO		LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA			
33.63	33.71	22	440			880								40		RUSSIAN RIVER BRIDGE AND OVERHEAD Br No. 10-0182	
33.63 R+	35.55 R+	27B	10,138					10,138									
33.63 L+	33.93 L+	27B	1,584					1,584									
33.71	33.77	22	317			634								30			
33.77	33.79	22	115			230								12		REDWOOD VALLEY UNDERCROSSING Br No. 10-0183	
33.79	33.83	22	211			422								20			
33.83	33.90	29	370			1,480								34			
33.85 L+	33.89 L+	36A	211						211	36			6	42		ROAD 144 WB ON RAMP - Det 8 / Det 10	
33.89 L+	33.93 L+	36A	235	1,308	654											ROAD 144 WB ON RAMP - Det 38A	
33.89 L+	33.93 L+	25A	289			289							14	14		ROAD 144 WB ON RAMP	
33.90	33.93	22	158			316								16			
33.91 R+	33.99 R+	38	408	816	408								18	18		ROAD 144 EB L+ TURN Ln / ACCEL Ln	
33.94 L+		22	185											18		ROAD 144	
33.94	34.75	22	4,277			8,554								360			
33.94 L+	34.88 L+	27B	4,963					4,963									
33.94 L+	33.98 L+	36	175	892	446											ROAD 144 WB OFF RAMP - Det 38A	
33.94 L+	33.98 L+	25A	206			206							10	10		ROAD 144 WB OFF RAMP	
33.98 L+	34.00 L+	38	108	216	108								6	6		ROAD 144 WB OFF RAMP	
33.99 R+	35.00 R+	12	5,333						5333	452			113	565		Ln LINE BETWEEN No. 1 AND No. 2 EB Ln	
34.75	34.82	29	370			1,480								34			
34.82	34.88	22	317			634								30			
34.83 R+	34.94 R+	38	581	1162	581									26		ROAD A EB L+ TURN Ln / ACCEL Ln	
34.89 L+		22	85			170								10		ROAD A	
34.89 L+	34.90 L+	36	51	352	176											ROAD A WB OFF RAMP - Det 38A	
34.89	35.55	22	3,485			6,970								294			
34.89 L+	36.59 L+	27B	8,976					8,976									
35.51 L+	35.59 L+	38	460	920	460								21	21		MARINA Dr WB L+ TURN Ln / ACCEL Ln	
35.52 R+	35.55 R+	38	164	328	164								8	8		MARINA Dr EB R+ TURN Ln	
35.55 R+		38A	30	134	67											MARINA Dr EB R+ TURN Ln	
35.55 R+		22	85			170							10	10		MARINA Dr	
35.55 R+		38A	45	146	73											MARINA Dr EB ACCEL Ln	
35.56 R+	35.60 R+	38	189	378	189								21	21		MARINA Dr EB ACCEL Ln	
35.56	35.60	22	211			422							20	20			
35.56 R+	36.00 R+	27B	2,323					2,323									
35.60	35.68	29	422			1,688								38			
35.68	36.36	22	3,590			7,180								302			
36.01 R+	36.10 R+	38	452	904	452									20		EB TURNOUT	
36.11 R+	R38.03 R+	27B	10,138					10,138									
36.36	36.48	22	610			1,220								54		EAST FORK RUSSIAN RIVER Br No. 10-0184	
36.48	36.56	29	422			1,688								38			
36.56	36.59	22	158			316								16			
SUBTOTAL SHEET PDQ-1				7556	3778	35,319	38,122	0	211	5333	488	1376	239	24	2127		
TOTAL SHEET PDQ-1				7556	3778	73,441		0	211	5333	488		1639		2127		

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

PAVEMENT DELINEATION QUANTITIES PDQ-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	13	25

Curtis D. Coburn 5-9-16
REGISTERED CIVIL ENGINEER DATE

May 9, 2016
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-16
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.

TRAFFIC STRIPE AND PAVEMENT MARKER QUANTITIES

LOCATION (PM)	DETAIL NUMBER	DETAIL LENGTH (N)	THERMOPLASTIC TRAFFIC STRIPE							PAVEMENT MARKER					REMARKS
			REMOVE	8" WHITE	4" YELLOW	4" WHITE	4" WHITE (BROKEN 12-3)	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 36-12)	(NONREFLECTIVE)		(RETROREFLECTIVE)		REMOVE (N)	
										EA	EA	EA	EA		
FROM	TO	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA		
36.56 Rt	36.63 Rt	38	330	660	330							15	15	BU-SHAY CAMPGROUND AREA EB Lt TURN Ln / ACCEL Ln	
36.59 Lt		22	65			130				8			8	BU-SHAY CAMPGROUND ENTRANCE	
36.60	R37.41	22	4,277			8,554				360			360		
36.61 Lt	R37.98 Lt	27B	7,234				7,234								
R37.41	R37.90	29	2,587			10,348					218		218		
R37.50 Rt	R37.90 Rt	12	2,112						2,112	180		45	225	Ln LINE BETWEEN No. 1 AND No. 2 EB Ln	
R37.57 Lt	R37.90 Lt	12	1,742						1,742	152		38	190	Ln LINE BETWEEN No. 1 AND No. 2 WB Ln	
R37.90	R37.93	29	153			612					16		16	COLD CREEK (#1) Br No. 10-0040	
R37.90 Rt	R37.93 Rt	12	158						158	20		5	25	Ln LINE BETWEEN No. 1 AND No. 2 EB Ln	
R37.90 Lt	R37.93 Lt	12	158						158	20		5	25	Ln LINE BETWEEN No. 1 AND No. 2 WB Ln	
R37.93	R38.03	29	528			2,112					46		46		
R37.93 Rt	R38.03 Rt	12	528						528	48		12	60	Ln LINE BETWEEN No. 1 AND No. 2 EB Ln	
R37.93 Lt	R38.03 Lt	12	528						528	48		12	60	Ln LINE BETWEEN No. 1 AND No. 2 WB Ln	
R37.95 Lt	R37.97 Lt	36A	106					106		24		4	28	POTTER VALLEY Rd WB ON RAMP - Det 8 / Det 10	
R37.97 Lt	R38.00 Lt	36A	158	316	158							15	15	POTTER VALLEY Rd WB ON RAMP - Det 38	
R37.97 Lt	R37.98 Lt	25A	104			104						6	6	POTTER VALLEY Rd WB ON RAMP	
R37.97 Lt	R37.98 Lt	27B	104				104							POTTER VALLEY Rd WB ON RAMP	
R37.97 Lt	R38.04 Lt	27B	370											POTTER VALLEY Rd WB ON RAMP	
R37.99 Rt	R38.03 Rt	38	188	376	188							9	9	POTTER VALLEY Rd EB Lt TURN Ln	
R38.03 Rt	R38.09 Rt	27C	317					317							
R38.04 Lt	R38.05 Lt	27C	53					53							
R38.05 Rt		22	39			78					6		6	POTTER VALLEY Rd	
R38.05 Lt		22	62			124					8		8	POTTER VALLEY Rd	
R38.05 Lt		27B	120				240							POTTER VALLEY Rd	
R38.05	R38.21	29	845			3,380					74		74		
R38.05 Lt	R38.07 Lt	27B	106				106								
R38.05 Rt	R38.10 Rt	12	264						264	28		7	35	Ln LINE BETWEEN No. 1 AND No. 2 EB Ln	
R38.05 Lt	R38.31 Lt	12	1,373						1,373	120		30	150	Ln LINE BETWEEN No. 1 AND No. 2 WB Ln	
R38.05 Lt	R38.09 Lt	38	158	316	158							8	8	POTTER VALLEY Rd WB Lt TURN Ln	
R38.06 Lt	R38.50 Lt	27B	2,323				2,323								
R38.06 Lt	R38.07 Lt	25A	98			98						6	6	POTTER VALLEY Rd WB ON RAMP	
R38.06 Lt	R38.07 Lt	27B	87				87							POTTER VALLEY Rd WB ON RAMP	
R38.07 Lt	R38.10 Lt	36	158	632	316							20	20	POTTER VALLEY Rd WB OFF RAMP - Det 38	
R38.09 Rt	R38.50 Rt	27B	2,165				2,165								
R38.10 Lt	R38.15 Lt	38	264	528	264							24	24	POTTER VALLEY Rd WB Rt TURN Ln	
R38.21	R38.31	22	528			1,056					46		46		
R38.31	R38.34	22	152			304					16		16	COLD CREEK (#2) Br No. 10-0041	
R38.31 Lt	R38.34 Lt	12	158						158	20		5	25	Ln LINE BETWEEN No. 1 AND No. 2 WB Ln	
R38.34	R38.36	22	106			212					12		12		
R38.34	R38.50	22	845			1,690					74		74		
SUBTOTAL SHEET PDQ-2				2,828	1414	28,802	12,629	370	106	7,021	660	884	254	12	1810
TOTAL SHEET PDQ-2				2,828	1414	41,431	370	106	7,021	660		1150		1810	
TOTAL SHEET PDQ-1				7,556	3778	73,441	0	211	5,333	488		1639		2127	
TOTAL				10,384	5192	114,872	370	317	12,354	1148		2789		3937	

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

PAVEMENT DELINEATION QUANTITIES PDQ-2



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	14	25

Curtis D. Coburn 5-9-16
REGISTERED CIVIL ENGINEER DATE

May 9, 2016
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-16
CIVIL
STATE OF CALIFORNIA

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PAVEMENT MARKING QUANTITIES

LOCATION (PM)	ORIENTATION	LEGEND	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING	REMARKS
			SQFT	SQFT	
33.91 R+	FEBT	TYPE III (L) ARROW	42	42	ROAD 144 EB L+ TURN Ln / EB ACCEL Ln
33.93 R+	FEBT	TYPE III (L) ARROW	42	42	ROAD 144 EB L+ TURN Ln / EB ACCEL Ln
33.94 L+	FSBT	LIMIT LINE	16	16	ROAD 144
33.94 L+	FSBT	STOP	22	22	ROAD 144
33.95 R+	FEBT	TYPE V ARROW	33	33	ROAD 144 EB L+ TURN Ln / EB ACCEL Ln
34.83 R+	FEBT	TYPE III (L) ARROW	42	42	ROAD A EB L+ TURN Ln / EB ACCEL Ln
34.87 R+	FEBT	TYPE III (L) ARROW	42	42	ROAD A EB L+ TURN Ln / EB ACCEL Ln
34.89 L+	FSBT	LIMIT LINE	52	52	ROAD A
34.89 L+	FSBT	(2) - STOP	44	44	ROAD A
34.89 R+	FEBT	TYPE VI ARROW	42	42	ROAD A EB L+ TURN Ln / EB ACCEL Ln
34.90 R+	FEBT	TYPE VI ARROW	42	42	ROAD A EB L+ TURN Ln / EB ACCEL Ln
34.97 R+	FEBT	TYPE VI ARROW	42	42	EB No. 2 Ln
35.00 R+	FEBT	TYPE VI ARROW	42	42	EB No. 2 Ln
35.04 R+	FEBT	TYPE VI ARROW	42	42	EB No. 2 Ln
35.51 L+	FWBT	TYPE VI ARROW	42	42	MARINA Dr WB L+ TURN Ln / WB ACCEL Ln
35.52 R+	FEBT	TYPE V ARROW	33	33	EB No. 1 Ln
35.52 R+	FEBT	TYPE III (R) ARROW	42	42	MARINA Dr EB R+ TURN Ln
35.54 L+	FWBT	TYPE VI ARROW	42	42	MARINA Dr WB L+ TURN Ln / WB ACCEL Ln
35.55 R+	FNBT	LIMIT LINE	17	17	MARINA Dr
35.55 R+	FNBT	LIMIT LINE	18	18	MARINA Dr
35.55 R+	FNBT	(2) - STOP	22	44	MARINA Dr - 1 LEGEND REMOVED BY COLD PLANE AT GUARDRAIL
35.56 R+	FEBT	TYPE V ARROW	33	33	EB No. 1 Ln
35.56 L+	FWBT	TYPE III (R) ARROW	42	42	MARINA Dr WB L+ TURN Ln / WB ACCEL Ln
35.57 R+	FEBT	TYPE VI ARROW	42	42	MARINA Dr EB R+ ACCEL Ln
35.59 R+	FEBT	TYPE VI ARROW	42	42	MARINA Dr EB R+ ACCEL Ln
36.52 R+	FEBT	TYPE V ARROW	33	33	EB No. 1 Ln
36.57 R+	FEBT	TYPE III (L) ARROW	42	42	BU-SHAY CAMPGROUND EB L+ TURN Ln
36.59 R+	FEBT	TYPE III (L) ARROW	42	42	BU-SHAY CAMPGROUND EB L+ TURN Ln
36.59 L+	FSBT	LIMIT LINE	25	25	BU-SHAY CAMPGROUND ENTRANCE
36.59 L+	FSBT	STOP	22	22	BU-SHAY CAMPGROUND ENTRANCE
36.60 R+	FEBT	TYPE VI ARROW	42	42	BU-SHAY CAMPGROUND EB ACCEL Ln
36.62 R+	FEBT	TYPE VI ARROW	42	42	BU-SHAY CAMPGROUND EB ACCEL Ln
36.62 L+	FWBT	TYPE V ARROW	33	33	WB No. 1 Ln
R37.50 R+	FEBT	TYPE V ARROW	33	33	EB No. 1 Ln
R37.50 R+	FEBT	TYPE V ARROW	33	33	EB No. 2 Ln
R37.55 L+	FWBT	TYPE VI ARROW	42	42	WB No. 2 Ln
R37.58 L+	FWBT	TYPE VI ARROW	42	42	WB No. 2 Ln
R37.62 L+	FWBT	TYPE VI ARROW	42	42	WB No. 2 Ln
R38.00 R+	FEBT	(2) - TYPE V ARROW	66	66	EB No. 1 Ln / No. 2 Ln
R38.03 R+	FEBT	(2) - TYPE V ARROW	33	66	EB No. 1 Ln / No. 2 Ln - No. 1 Ln LEGEND REMOVED BY INTERSECTION COLD PLANE
R38.03 R+	FEBT	TYPE III (L) ARROW	42	42	POTTER VALLEY Rd EB L+ TURN Ln - LEGEND REMOVED BY INTERSECTION COLD PLANE
R38.05 R+	FNBT	LIMIT LINE	38	38	POTTER VALLEY Rd
R38.05 R+	FNBT	STOP	22	22	POTTER VALLEY Rd
R38.05 L+	FSBT	LIMIT LINE	14	14	POTTER VALLEY Rd
R38.05 L+	FSBT	STOP	22	22	POTTER VALLEY Rd
R38.05 R+	FEBT	TYPE VI ARROW	42	42	EB No. 2 Ln
R38.06 L+	FWBT	(2) - TYPE V ARROW	66	66	WB No. 1 Ln / No. 2 Ln
R38.06 L+	FWBT	TYPE III (L) ARROW	42	42	POTTER VALLEY Rd WB L+ TURN Ln
R38.09 L+	FWBT	(2) - TYPE V ARROW	66	66	WB No. 1 Ln / No. 2 Ln
R38.09 L+	FWBT	TYPE V ARROW	33	33	WB OFF RAMP TO POTTER VALLEY Rd
R38.09 R+	FEBT	TYPE VI ARROW	42	42	EB No. 2 Ln
R38.12 R+	FEBT	TYPE VI ARROW	42	42	EB No. 2 Ln
R38.16 R+	FEBT	TYPE V ARROW	33	33	EB No. 1 Ln
R38.19 R+	FEBT	TYPE V ARROW	33	33	EB No. 1 Ln
TOTAL			1987	2084	

SHOULDER BACKING QUANTITIES

LOCATION (PM)		SHOULDER BACKING
FROM	TO	TON
33.81 R+	34.00 R+	22
33.82 L+	33.94 L+	14
34.81 R+	34.84 R+	4
34.88 L+	34.89 L+	2
34.92 L+	35.08 L+	19
35.18 R+	35.21 R+	4
35.23 R+	35.37 R+	16
35.40 L+	35.49 L+	11
35.58 L+	35.60 L+	3
35.62 R+	35.69 R+	8
35.70 L+	35.76 L+	7
35.81 L+	35.86 L+	6
35.92 L+	35.95 L+	4
36.00 R+	36.12 R+	14
36.27 R+	36.30 R+	4
36.59 L+	36.61 L+	3
36.59 R+	36.69 R+	12
36.96 R+	36.99 R+	4
37.00 R+	37.09 R+	11
37.05 L+	37.28 L+	27
37.27 R+	R37.41 R+	16
R37.49 R+	R37.51 R+	3
R37.58 R+	R37.64 R+	7
R37.73 R+	R37.89 R+	19
R37.80 L+	R37.89 L+	11
R37.94 L+	R38.00 L+	7
R37.95 R+	R38.04 R+	11
R37.99 L+	R38.00 L+	2
R37.99 L+	R38.05 L+	7
R38.06 R+	R38.19 R+	15
R38.06 L+	R38.08 L+	3
R38.06 L+	R38.08 L+	3
R38.35 R+	R38.50 R+	18
R38.36 L+	R38.50 L+	16
TOTAL		333

SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: TOM FITZGERALD
DESIGNED BY: JOHNATHAN JACKSON
CHECKED BY: CURTIS COBURN

REVISOR: JOHNATHAN JACKSON
DATE: [REVISOR DATE]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	15	25

Curtis D. Coburn 5-9-16
REGISTERED CIVIL ENGINEER DATE

May 9, 2016
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-16
CIVIL
STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION (PM)		Avg WIDTH (N)	LENGTH (N)	COLD PLANE ASPHALT CONCRETE PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	TACK COAT	REMARKS
FROM	TO	LF	LF	SQYD	TON	TON	TON	
33.63	33.71	32.0	440					RUSSIAN RIVER BRIDGE AND OVERHEAD Br No. 10-0182
33.71	33.72	32.0	40	143				TRANSITION COLD PLANE AC DEPTH FROM 0.10' TO 0.00' OVER 40'
33.71	33.77	32.0	317		98.9		0.4	
33.76	33.77	32.0	41	146				TRANSITION COLD PLANE AC DEPTH FROM 0.00' TO 0.10' OVER 40'
33.77	33.79	32.0	115					REDWOOD VALLEY UNDERCROSSING Br No. 10-0183
33.79	33.80	33.0	42	154				TRANSITION COLD PLANE AC DEPTH FROM 0.10' TO 0.00' OVER 40'
33.79	33.91	37.0	634		228.6		0.8	
33.89 Lt	33.94 Lt	6.0	385	263				TAPER COLD PLANE AT ROAD 144 ISLAND
33.91	33.98	51.0	370		183.8		0.7	
33.94 Lt		639.0	195	89		356.6	1.2	ROAD 144 - INCLUDES WB OFF RAMP, WB ON RAMP, AND BOTH ISLANDS
33.98	34.03	50.0	264		128.8		0.5	
34.03	34.15	44.0	634		271.9		1.0	
34.15	34.46	44.5	1637		710.2		2.4	
34.46	34.74	44.0	1478		634.3		2.2	
34.74	34.86	52.5	634		324.4		1.1	
34.86	34.92	58.5	317		180.7		0.7	
34.89 Lt		158.0	90	76		77.1	0.3	ROAD A
34.92	35.04	51.0	634		315.1		1.1	
35.04	35.45	35.0	2165		738.8		2.5	
35.45	35.70	45.5	1320		585.6		2.0	
35.55 Rt		85.0	75	65		38.4	0.2	MARINA Dr
35.55 Rt	35.56 Rt	16.5	108	196				TAPER COLD PLANE AT MBGR FROM 0.00' AT ACCEL LANE LINE TO 0.10' AT MBGR
35.58 Rt	35.67 Rt	17.5	627			105.5	0.4	WIDE Shld
35.70	35.88	30.0	950		278.0		1.0	
35.88	36.00	32.0	634		197.7		0.7	
36.00	36.12	34.0	634		210.1		0.7	
36.00 Rt	36.12 Rt	16.0	627			121.6	0.5	WIDE Shld
36.12	36.29	31.5	898		275.7		1.0	
36.29	36.36	33.5	370		120.8		0.5	
36.35	36.36	32.0	40	143				TRANSITION COLD PLANE AC DEPTH FROM 0.00' TO 0.10' OVER 40'
36.36	36.48	32.0	610					EAST FORK RUSSIAN RIVER Br No. 10-0184
36.48	36.49	32.0	40	143				TRANSITION COLD PLANE AC DEPTH FROM 0.10' TO 0.00' OVER 40'
36.48	36.57	42.5	475		197.0		0.7	
36.57	36.62	47.0	264		121.0		0.5	
36.58 Rt		125.0	30	77		13.2	0.1	VISTA DEL LAGO Rd
36.59 Lt		169.5	75	55		47.4	0.2	BU-SHAY CAMPGROUND Rd
36.62	36.69	39.0	370		140.6		0.5	
36.69	36.98	30.5	1531		455.4		1.6	
36.98	37.02	36.5	211		75.2		0.3	
37.02	R37.34	31.0	1690		510.7		1.7	
R37.34	R37.50	42.0	845		346.0		1.2	
R37.50	R37.79	59.5	1531		888.3		3.0	
R37.79	R37.82	64.0	158		98.9		0.4	
R37.82	R37.90	81.5	422		335.7		1.2	
R37.88	R37.89	89.0	40	394				TRANSITION COLD PLANE AC DEPTH FROM 0.00' TO 0.10' OVER 40'
R37.89	R37.90	86.0	40	380				COLD PLANE AC DEPTH 0.10' OVER 40'
R37.90	R37.93	88.0	153					COLD CREEK (#1) Br No. 10-0040
R37.93	R37.94	93.0	55	569				COLD PLANE AC DEPTH 0.10' OVER 55'
R37.94	R37.95	92.0	40	411				TRANSITION COLD PLANE AC DEPTH FROM 0.10' TO 0.00' OVER 40'
R37.93	R37.99	100.0	317		278.7		1.0	
R37.95	R38.03	10.5	458			71.6	0.2	PAVED MEDIAN
R37.99 Lt		22.0	104	98		22.4	0.1	POTTER VALLEY Rd WB ONRAMP
TOTAL SHEET Q-2				3402	8930.9	853.8	34.6	

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: TOM FITZGERALD
 CALCULATED/DESIGNED BY: JOHNATHON JACKSON
 CHECKED BY: CURTIS COBURN
 REVISED BY: [] DATE REVISED: []

SUMMARY OF QUANTITIES Q-2

LAST REVISION DATE PLOTTED => 08-JUL-2016 04:25:16 TIME PLOTTED => 09:45

NOTE:

MAINTAIN EXISTING TRAFFIC MANAGEMENT SYSTEM (TMS) ELEMENTS DURING CONSTRUCTION FROM PM 35.58 TO 35.60.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	16	25

Curtis D. Coburn 5-9-16
 REGISTERED CIVIL ENGINEER DATE

May 9, 2016
 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
 No. 58431
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

ROADWAY QUANTITIES

LOCATION (PM)		Avg WIDTH (N)	LENGTH (N)	COLD PLANE ASPHALT CONCRETE PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	TACK COAT	REMARKS
FROM	TO	LF	LF	SQYD	TON	TON	TON	
R37.99	R38.07	97.0	422		382.1		1.3	
R38.03	R38.07	34.0	180	680				COLD PLANE INTERSECTION FROM L+ EDGE OF Med TO EB Ln LINE - Var DEPTH
R38.05 L+		36.0	62	80		22.3	0.1	POTTER VALLEY Rd
R38.05 R+		287.5	39	105		42.4	0.2	POTTER VALLEY Rd
R38.07	R38.17	101.5	528		448.1		1.5	
R38.07	R38.18	14.5	602			126.1	0.3	PAVED MEDIAN
R38.08 L+		22.0	98	130		24.0	0.1	POTTER VALLEY Rd WB OFFRAMP
R38.17	R38.21	81.5	211		158.3		0.6	
R38.21	R38.31	59.0	528		303.8		1.1	
R38.30	R38.31	52.5	40	234				TRANSITION COLD PLANE AC DEPTH FROM 0.00' TO 0.10' OVER 40'
R38.31		52.0	17	99				COLD PLANE AC DEPTH 0.10' OVER 17'
R38.31	R38.34	52.0	172					COLD CREEK (#2) Br No. 10-0041
R38.34		52.0	17	99				COLD PLANE AC DEPTH 0.10' OVER 17'
R38.34	R38.35	52.0	40	232				TRANSITION COLD PLANE AC DEPTH FROM 0.10' TO 0.00' OVER 40'
R38.34	R38.50	49.0	845		403.7		1.4	
R38.49	R38.50	52.0	40	232				TRANSITION COLD PLANE AC DEPTH FROM 0.00' TO 0.10' OVER 40'
TOTAL SHEET Q-3				1891	1,696.0	214.8	6.6	
TOTAL SHEET Q-2				3402	8,930.9	853.8	34.6	
TOTAL				5293	10,626.9	1068.6	41.2	

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

RUMBLE STRIP

LOCATION (PM)		DETAIL NUMBER	CENTERLINE RUMBLE STRIP STA	REMARKS
FROM	TO			
33.71	33.77	22	3.2	
33.79	33.83	22	2.1	
33.83	33.90	29	3.7	OFFSET L+ - ON WB SIDE ONLY
33.90	33.93	22	1.6	
33.94	34.75	22	42.8	
34.75	34.82	29	3.7	OFFSET L+ - ON WB SIDE ONLY
34.82	34.88	22	3.2	
34.89	35.55	22	34.9	
35.56	35.60	22	2.1	
35.60	35.68	29	4.2	OFFSET R+ - ON EB SIDE ONLY
35.68	36.36	22	35.9	
36.48	36.56	29	4.2	OFFSET L+ - ON WB SIDE ONLY
36.56	36.59	22	1.6	
36.60	R37.41	22	42.8	
R37.41	R37.90	29	51.8	OFFSET L+/R+ - ON WB AND EB SIDE
R37.93	R38.03	29	10.6	OFFSET L+/R+ - ON WB AND EB SIDE
R38.05	R38.21	29	17.0	OFFSET L+/R+ - ON WB AND EB SIDE
R38.21	R38.31	22	5.3	
R38.35	R38.50	22	7.9	
TOTAL			278.6	

RESET ROADSIDE SIGN AND OBJECT MARKER

LOCATION (PM)	PANEL OR TYPE	ORIENTATION	RESET ROADSIDE SIGN		RESET OBJECT MARKER
			(ONE POST) EA	(TWO POST) EA	EA
33.90 L+	W4-1R	FWBT	1		
33.92 L+	R1-1/W4-4P	FSBT	1		
33.92 L+	D1-1A	FSBT		1	
R38.03	R5-1/R5-1A	FNBT	1		
R38.07	K-1 (CA)	FEBT			1
R38.07	R6-1	FSBT	1		
R38.07	R5-1/R5-1A	FSBT	1		
TOTAL			5	1	1

MISC AREA QUANTITIES

LOCATION (PM)		PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)
FROM	TO	SQYD
R37.95	R38.03	544
R38.07	R38.18	958
TOTAL		1502

CHANNELIZER QUANTITIES

LOCATION (PM)		RESET CHANNELIZER (SURFACE MOUNTED)
FROM	TO	EA
R37.65	R37.90	30

MAINTAIN EXISTING TMS ELEMENTS DURING CONSTRUCTION

LOCATION (PM)	TMS ELEMENT
	REMARKS
35.59	CMS CONTROL CABLES AND OTHER 2" CONDUIT

SUMMARY OF QUANTITIES Q-3



	M	
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	
M+I	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
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	
	O	
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	
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 M+I	PERMEABLE MATERIAL	

	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	
	Q	
Qty	QUANTITY	
	R	
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	
R+	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	
Tel	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	
	U	
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	
	V	
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	
WWLOL	WINGWALL LAYOUT LINE	
	X	
X Sec	CROSS SECTION	
Xing	CROSSING	
	Y	
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	17	25

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.

REGISTERED PROFESSIONAL ENGINEER
Grace M. Tsushima
No. C49814
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 05-09-16

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

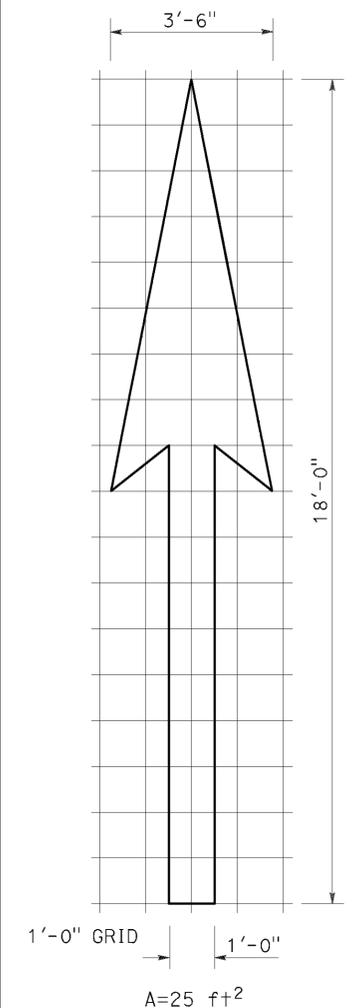
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	18	25

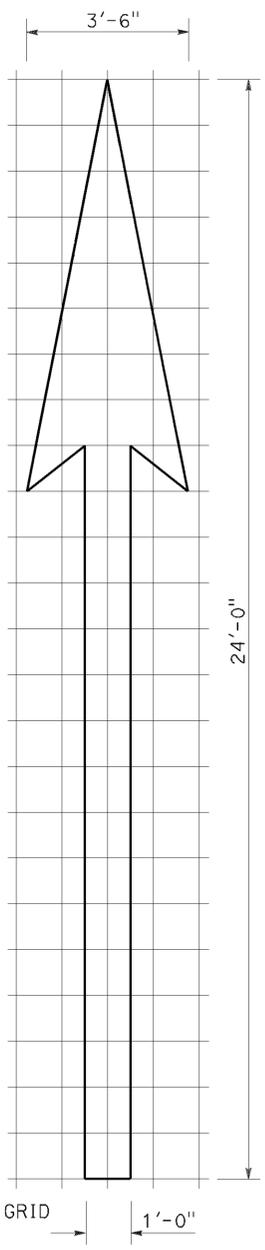
Roberto L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

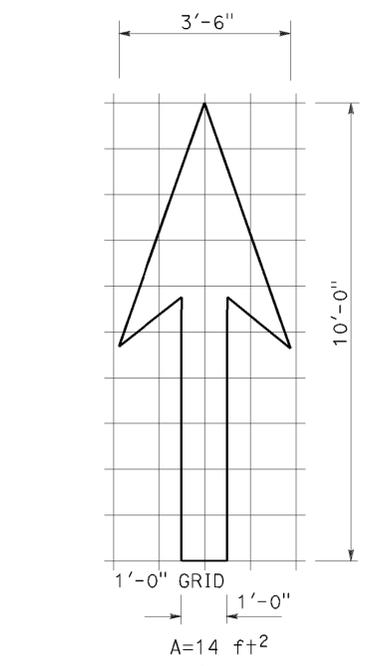
TO ACCOMPANY PLANS DATED 05-09-16



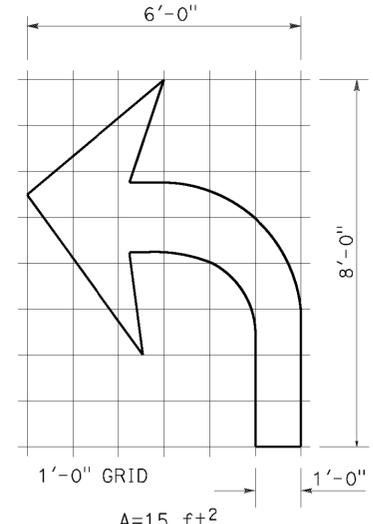
TYPE I 18'-0" ARROW



TYPE I 24'-0" ARROW

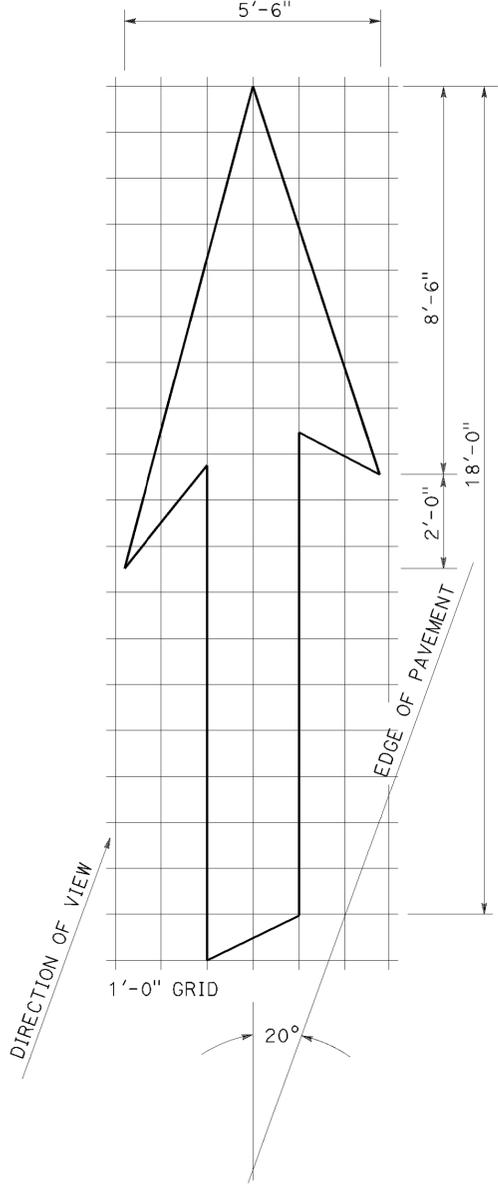


TYPE I 10'-0" ARROW



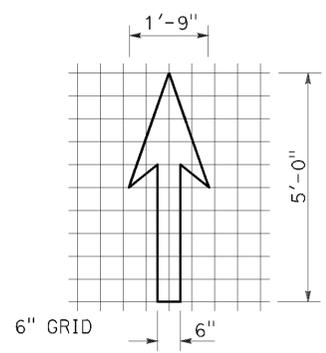
TYPE IV (L) ARROW

(For Type IV (R) arrow, use mirror image)

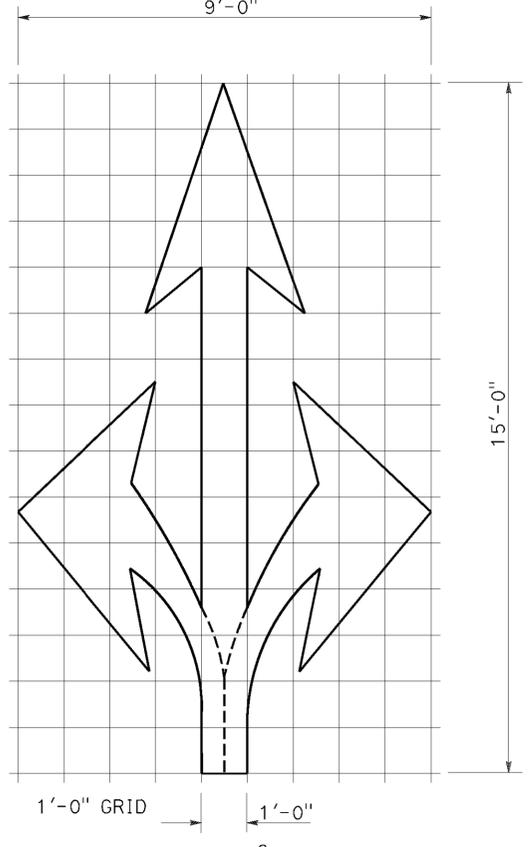


TYPE VI ARROW

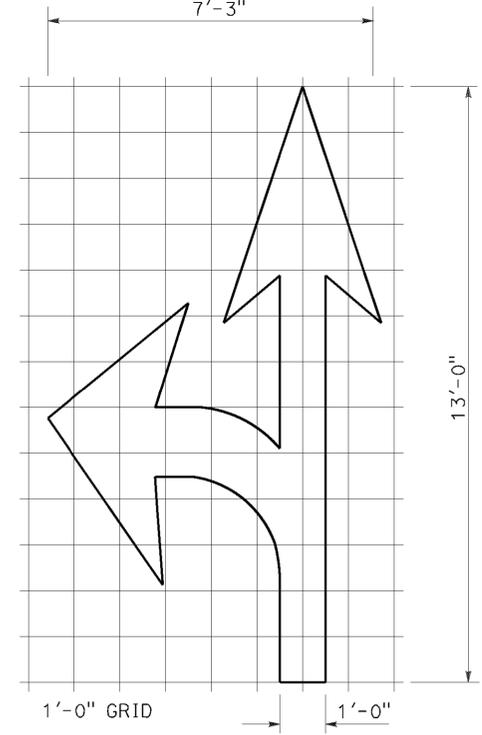
Right lane drop arrow
(For left lane, use mirror image)



BIKE LANE ARROW

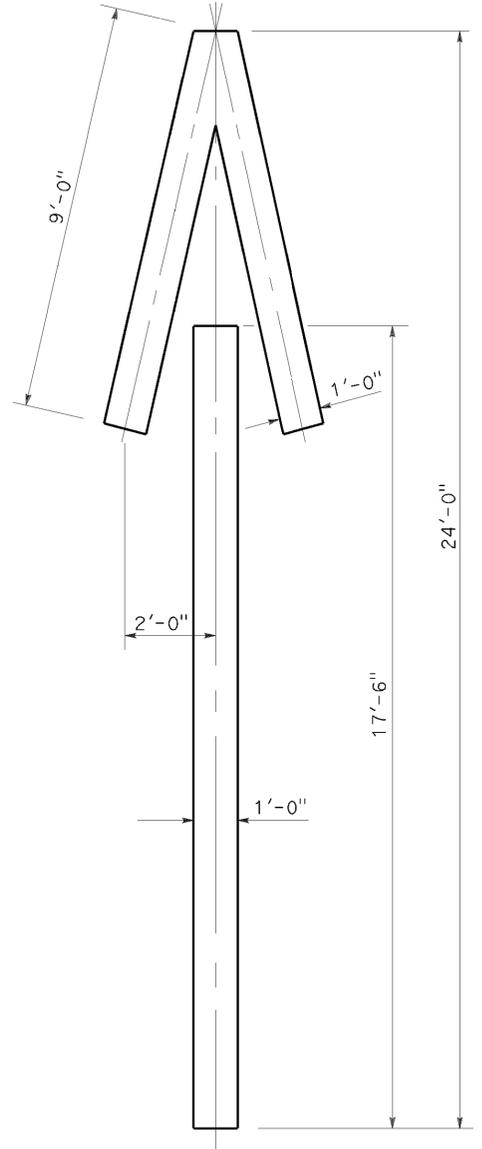


TYPE VIII ARROW



TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



TYPE V ARROW

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
ARROWS**
NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

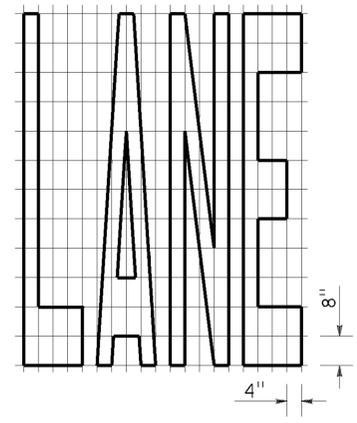
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	19	25

Registered Professional Engineer
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

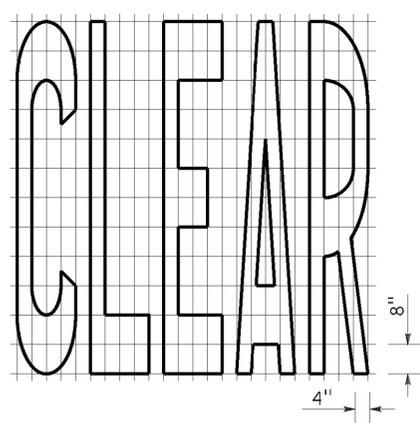
July 20, 2012
 PLANS APPROVAL DATE

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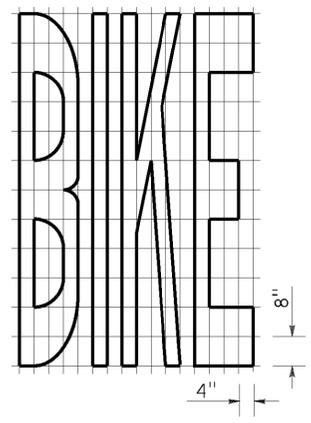
TO ACCOMPANY PLANS DATED 05-09-16



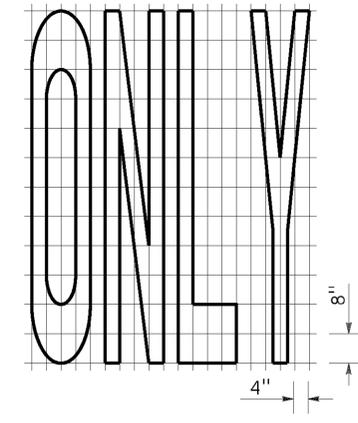
A=24 ft²



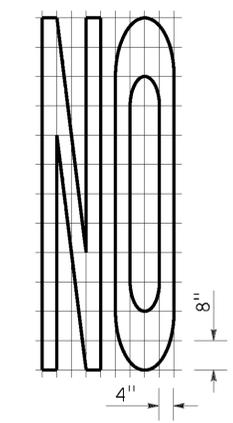
A=27 ft²



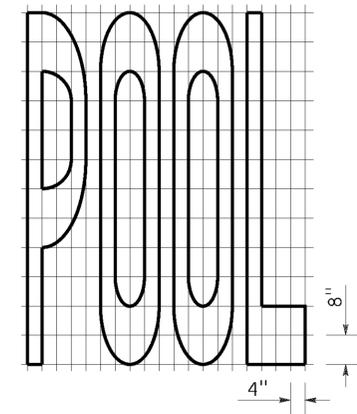
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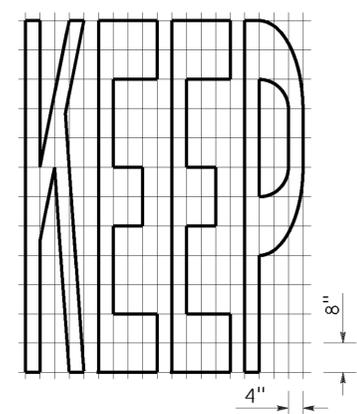
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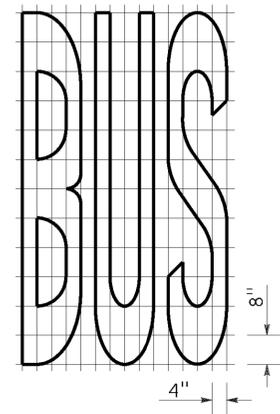
A=14 ft²



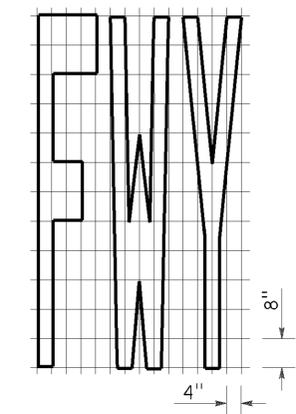
A=23 ft²



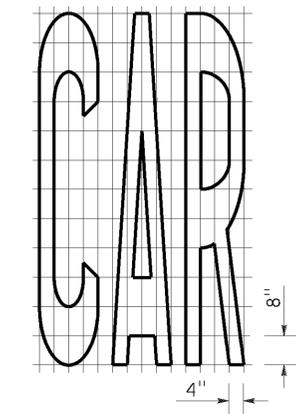
A=24 ft²



A=20 ft²

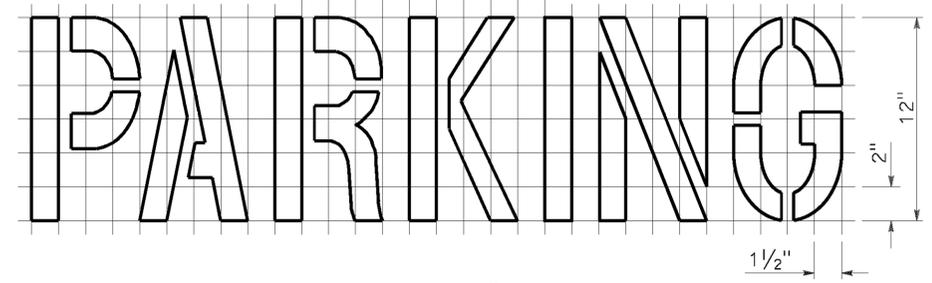
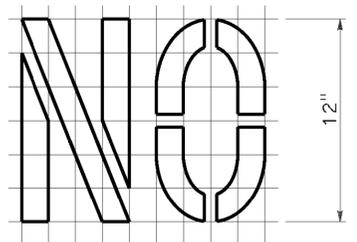


A=16 ft²

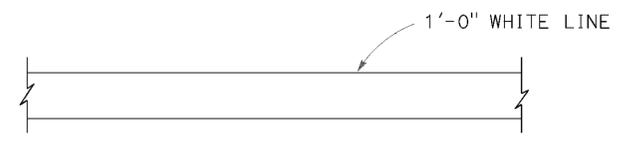


A=17 ft²

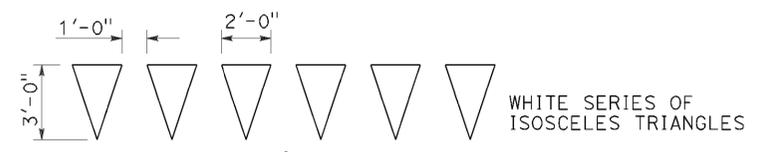
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



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.

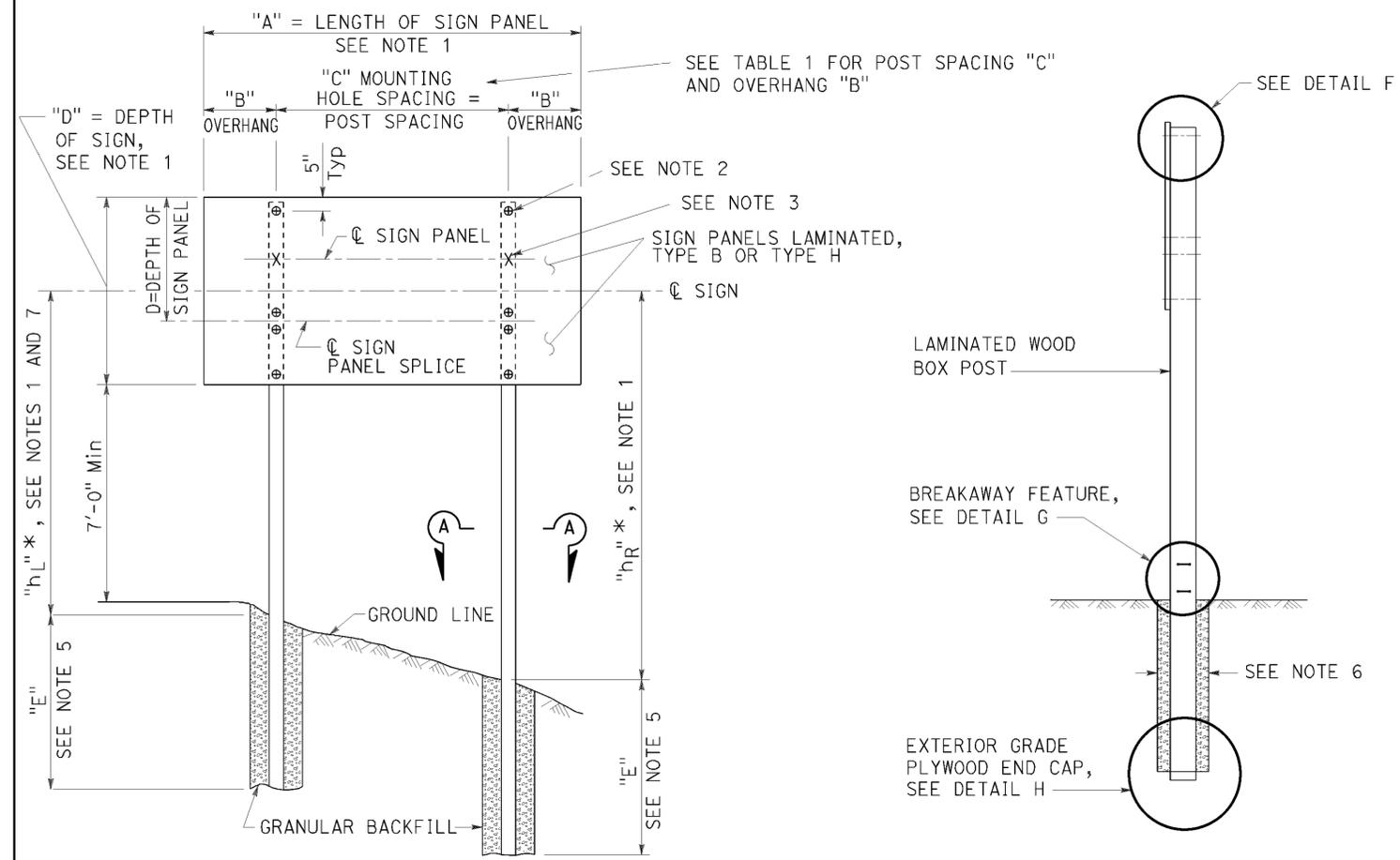
REVISED STANDARD PLAN RSP A24E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	20	25

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 No. C57793
 Exp. 3-31-16
 CIVIL
 STATE OF CALIFORNIA

October 30, 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.



SIGN PANEL LENGTH (SEE NOTE 1)	SIGN PANEL OVERHANG "B"	MOUNTING HOLE SPACING "C"
8'-0"	1'-6"	5'-0"
9'-0"	1'-10"	5'-4"
10'-0"	2'-0"	6'-0"
11'-0"	2'-0"	7'-0"
12'-0"	2'-6"	7'-0"
13'-0"	2'-6"	8'-0"
14'-0"	2'-6"	9'-0"
15'-0"	3'-0"	9'-0"
16'-0"	3'-3"	9'-6"
17'-0"	3'-3"	10'-6"
18'-0"	3'-6"	11'-0"
19'-0"	3'-9"	11'-6"
20'-0"	4'-0"	12'-0"
21'-0"	4'-3"	12'-6"
22'-0"	4'-3"	13'-6"
23'-0"	4'-6"	14'-0"
24'-0"	4'-9"	14'-6"

TABLE 1

"h _L " OR "h _R " (IN FEET)	TOTAL SIGN AREA SQFT				
	40 TO 90	90+ TO 140	140+ TO 190	190+ TO 240	240+ TO 290
9'-0" TO 13'-0"	6'	6.5'	7.5'	8.5'	9'
13'-0"+ TO 17'-0"	6'	7'	8'	9'	10'
17'-0"+ TO 21'-0"	6'	7.5'	9'	9'	
21'-0"+ TO 26'-0"	7'	8'	9'		

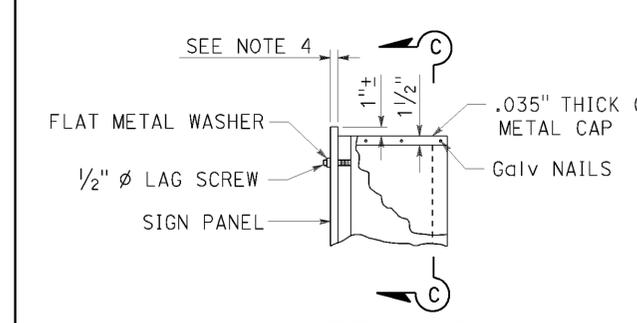
TABLE 2

See Note 8

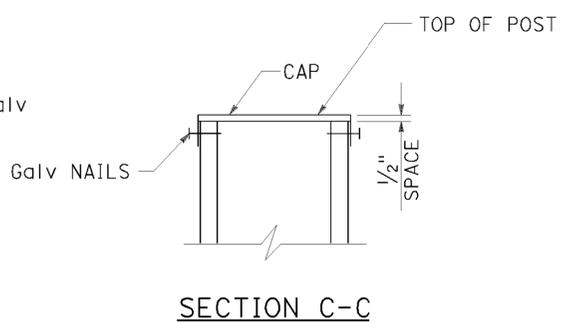
NOTES:

- See Project Plans for:
 - Location of each sign.
 - Length of sign panel "A".
 - Depth of sign "D".
 - Height "h_L" and "h_R" of centerline of sign above ground line at each post.
 - Type of post, L and M.
 See Standard Plan RS1 for other details.
- "a" Indicates location of 1/2" lag screws and existing holes in panels. Lag screws are to be embedded at least 1" into post using 5/16" diameter pilot holes.
- "x" Indicates location of additional 1/2" lag screws required when the depth of sign panel (d) and the length of sign panel (A) are as follows:

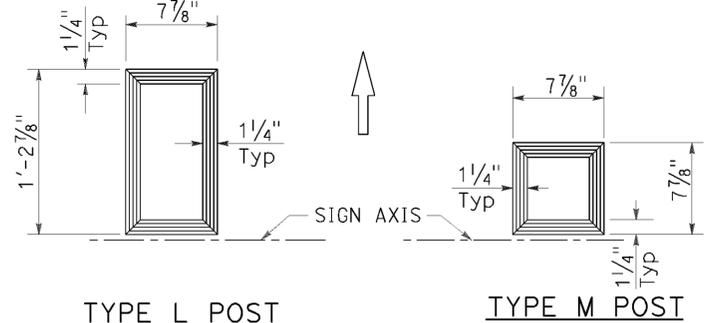
A	d
17'-0" to 24'-0"	5'-0"
19'-0" to 24'-0"	4'-6"
21'-0" to 24'-0"	4'-0"
24'-0"	3'-6"
- Type B laminated sign panels are 1" nominal thick for sign lengths of 15'-0" and less. Panels over 15'-0" in length and Type H laminated sign panels are 2 1/2" nominal thick.
- Embedment "E" for Type L post shall conform to the requirements in Table 2. Embedment for Type M posts shall be 6'-0" minimum.
- Diameter of post holes for Type L posts shall be at least 2'-6". Diameter of post holes for Type M posts shall be at least 2'-0".
- Dimensions shown on project plans are for fabrication. During installation adjust these dimensions to provide a level sign approximately 7'-0" above roadway shoulder.
- Minimum post embedment "E" for Type L post.



DETAIL F



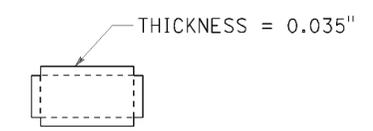
SECTION C-C



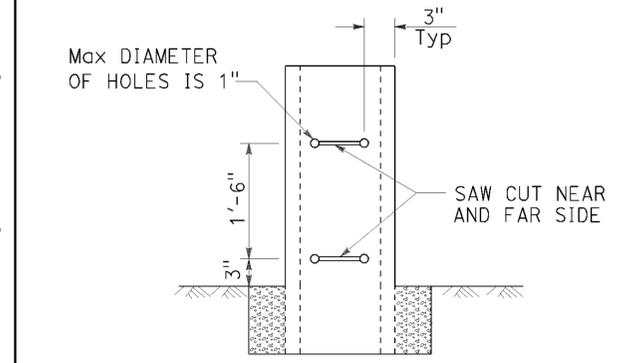
TYPE L POST

TYPE M POST

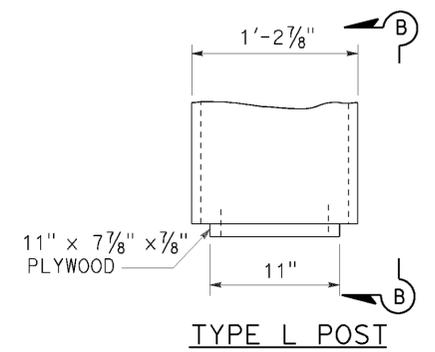
SECTION A-A



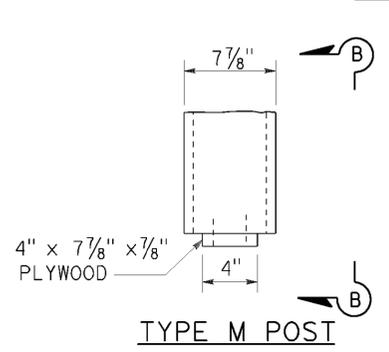
GALV METAL CAP



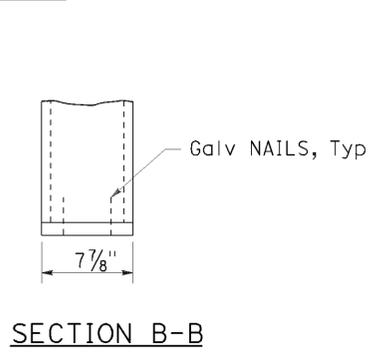
DETAIL G



TYPE L POST



TYPE M POST



SECTION B-B

DETAIL H

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ROADSIDE SIGNS
 LAMINATED WOOD BOX POST
 TYPICAL INSTALLATION
 DETAILS No. 3**

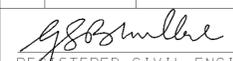
NO SCALE

RSP RS3 DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN RS3 DATED MAY 20, 2011 - PAGE 332 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP RS3

2010 REVISED STANDARD PLAN RSP RS3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	21	25


 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 05-09-16

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		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	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
mph	ft	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.

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	22	25

REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

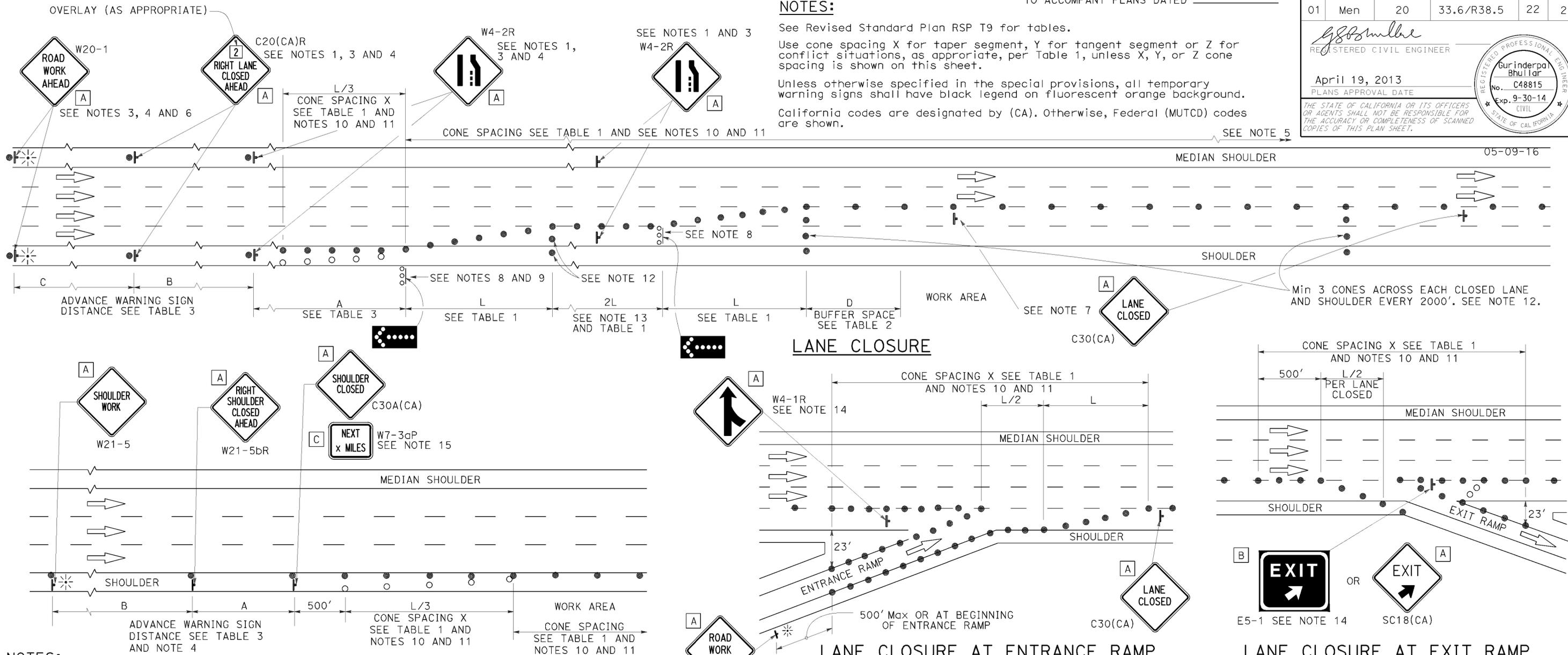
April 19, 2013
 PLANS APPROVAL DATE

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.

TO ACCOMPANY PLANS DATED _____

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) 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

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

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

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

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	20	33.6/R38.5	23	25

Registered Civil Engineer
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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.

TO ACCOMPANY PLANS DATED 05-09-16

LEGEND

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

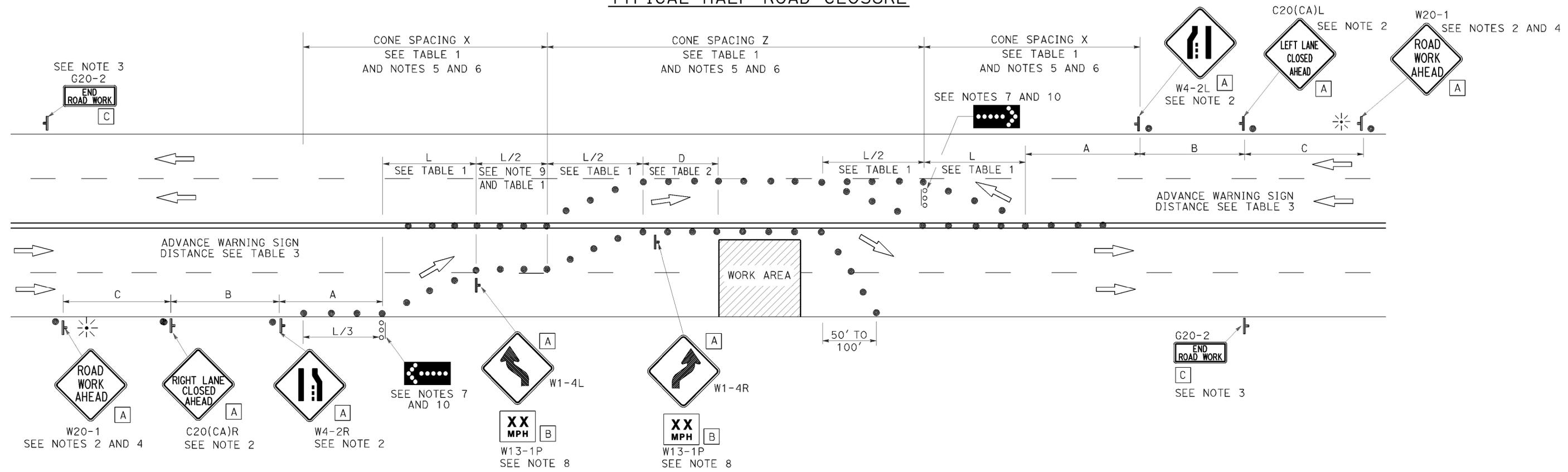
See Revised Standard Plan RSP T9 for tables.

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.

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. 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.
3. A G20-2 "END ROAD WORK" sign, 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.
4. 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) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. 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 the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR HALF ROAD CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS AND EXPRESSWAYS**

NO SCALE

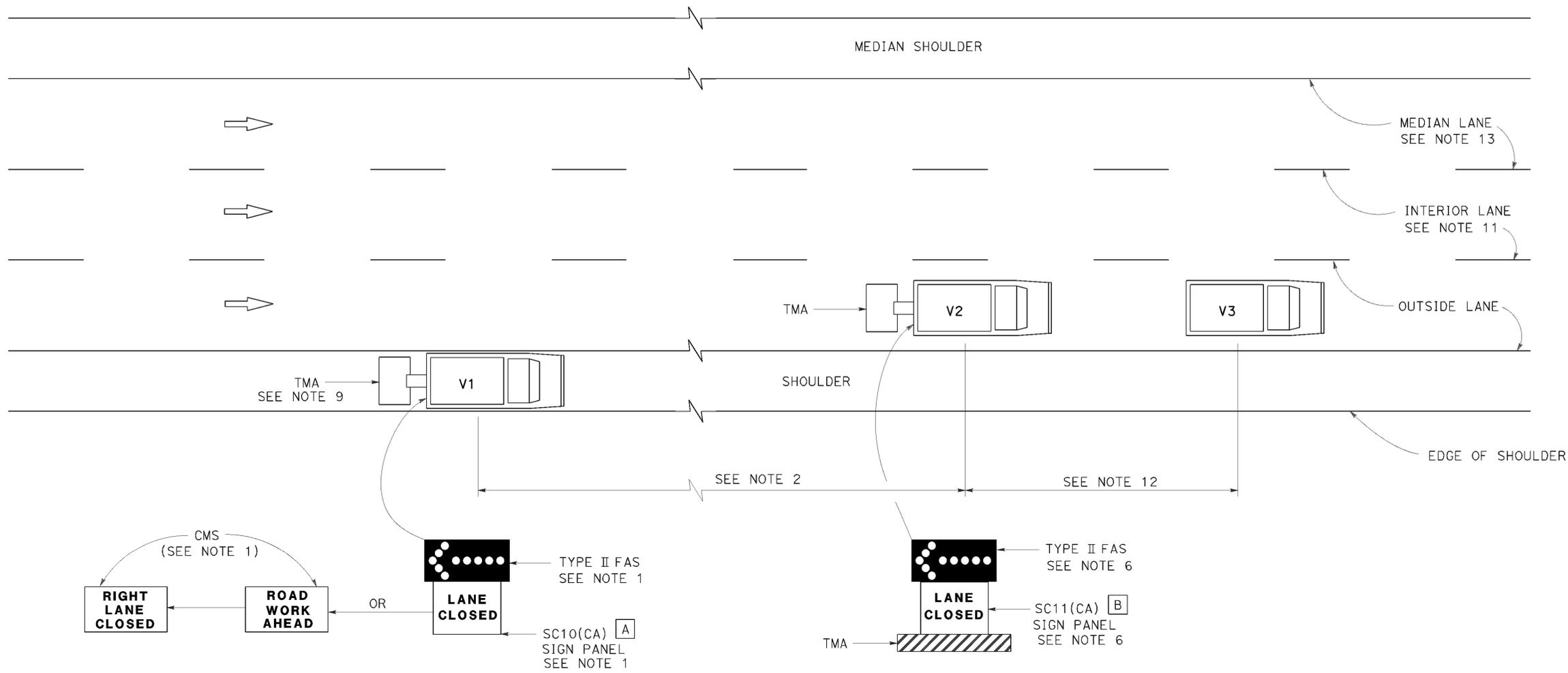
RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

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TO ACCOMPANY PLANS DATED 05-09-16



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

- Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- 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.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- 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.
- All vehicles shall be equipped with flashing or rotating amber lights.
- 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.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

