INDEX OF PLANS

SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION AND CONSTRUCTION DETAILS
3	EROSION CONTROL QUANTITIES
4	CONSTRUCTION AREA SIGNS
5	SUMMARY OF QUANTITIES
6-8	NEW OR 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

HP21L-6201 (009)

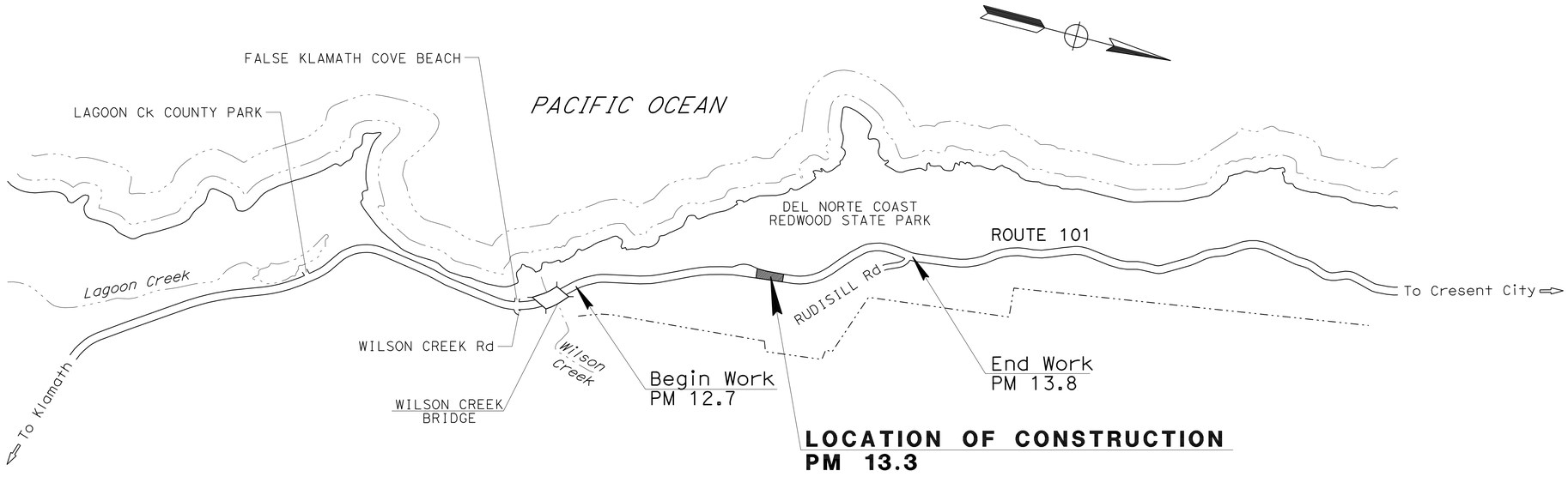
PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN DEL NORTE COUNTY NEAR KLAMATH AT 0.6 MILE NORTH OF WILSON CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	1	8

LOCATION MAP



PROJECT MANAGER: Royal B. McCarthy

DESIGN ENGINEER: Royal B. McCarthy

Curtis D. Coburn 6/23/13

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

June 24, 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.

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

NO SCALE

CONTRACT No.	01-0B13004
PROJECT ID	0100020446

LAST REVISION 00-00-00

DATE PLOTTED => 24-JUN-2013
TIME PLOTTED => 09:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	2	8

Curtis D. Coburn 6/23/13
REGISTERED CIVIL ENGINEER DATE

June 24, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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

NOTES

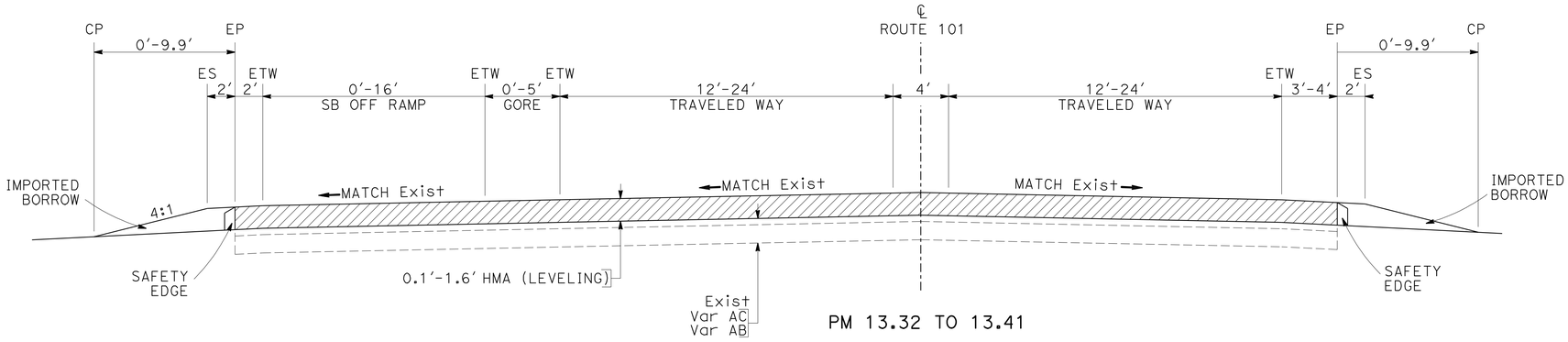
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, THE CONTRACTOR SHALL VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

PAVEMENT CLIMATE REGION

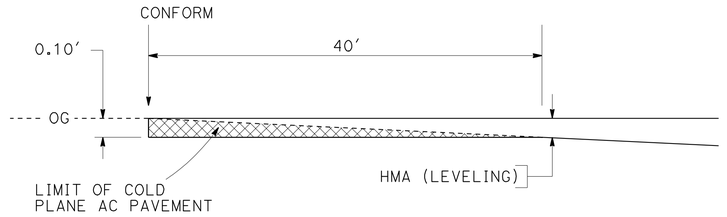
NORTH COAST

LEGEND

- LIMITS OF COLD PLANE AC PAVEMENT PRIOR TO LEVELING
- LIMITS OF HMA (LEVELING)

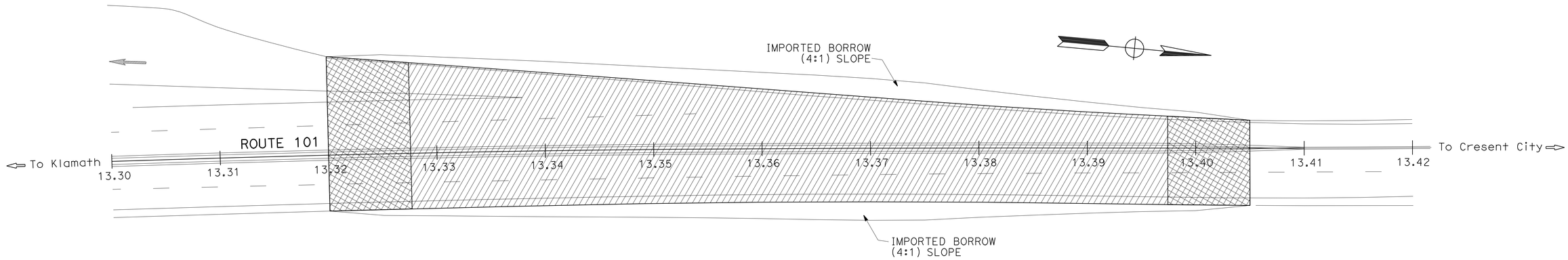


PM 13.32 TO 13.41



LOCATION	BEGIN PM	END PM
SOUTH CONFORM	13.32	13.33
NORTH CONFORM	13.40	13.41

COLD PLANE AC PAVEMENT AT CONFORM



TYPICAL CROSS SECTION AND CONSTRUCTION DETAILS X-1

NO SCALE

REVISED BY | DATE REVISED
Johnathon Jackson | Curtis D. Coburn
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: Royal B. McCarthy

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 24-JUN-2013
00-00-00 | TIME PLOTTED => 09:37

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10b130ca001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01000204461

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	3	8

LICENSED LANDSCAPE ARCHITECT

June 24, 2013
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
James S Hibbert III
Registered
5731715
Renewal Date
Date
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.

SEED (MIX 1)

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 1	AGROSTIS PALLENS THIN GRASS	70	2
	FESTUCA RUBRA RED FESCUE	70	9
	HORDEUM VULGARE VAR UC 937 COMMON BARLEY	80	60

EROSION CONTROL TYPE 1

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	DRY SEED	SEED	MIX 1	71 LB/ACRE
STEP 2	COMPOST	COMPOST	MEDIUM	270 CY/ACRE

EROSION CONTROL QUANTITIES

LOCATION (PM)		DESCRIPTION	HYDROSEED	COMPOST
FROM	TO		SQFT	SQFT
13.32 L†	13.41 L†	EROSION CONTROL TYPE 1	3000	3000
13.32 R†	13.41 R†	EROSION CONTROL TYPE 1	3000	3000
		TOTAL	6000	6000

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
James S. Hibbert
Curtis D. Coburn
SENIOR LANDSCAPE ARCHITECT
Ron Flory
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

EROSION CONTROL QUANTITIES
ECQ-1

LAST REVISION 00-00-00
DATE PLOTTED => 24-JUN-2013
TIME PLOTTED => 09:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	4	8

Curtis D. Coburn 6/23/13
REGISTERED CIVIL ENGINEER DATE

June 24, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

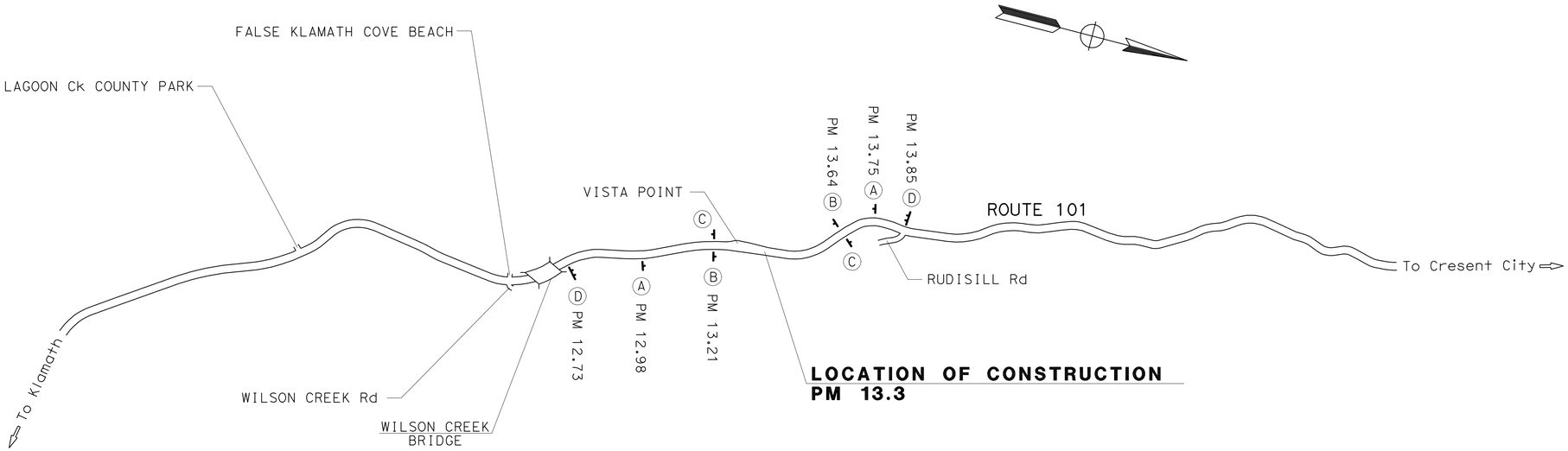
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	48"x48"	2 - 6"x6"	2
	C23B(CA)	RESURFACING	54"x18"		
B	W11-1	BICYCLE SYMBOL	36"x36"	2 - 4"x6"	2
	W16-1	SHARE THE ROAD	24"x30"		
C	G20-2	END ROAD WORK	36"x18"	2 - 4"x4"	2
D	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108"x42"	2 - 6"x6"	2

NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

C23B(CA)
54"x18"
6" CAPS
BLACK/ORANGE

RESURFACING



CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

REVISED BY | DATE REVISED
Johnathon Jackson | Curtis D. Coburn
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 24-JUN-2013
00-00-00 | TIME PLOTTED => 09:37

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10b1301a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01000204461

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	5	8

Curtis D. Coburn 6/23/13
REGISTERED CIVIL ENGINEER DATE

June 24, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
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 MARKERS

LOCATION (PM)		DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKERS (RETROREFLECTIVE-RECESSED)		REMARKS
				REMOVE	8" (WHITE)	4" (YELLOW)	4" (WHITE)	4" (WHITE) (BROKEN 36-12)	TYPE D	TYPE G	
FROM	TO			LF					EA		
13.32	13.39	29	370			1480			34		
13.32 L+	13.41 L+	27B	476				476				
13.32 R+	13.41 R+	27B	476				476				
13.32 R+	13.41 R+	12	476					476		11	
13.32 L+	13.35 L+	12	159					159		5	
13.32 L+	13.34 L+	38	106	212	106					6	
13.32 L+	13.34 L+	38	106	212	106					6	
13.39	13.41	22	106			212			16		
SUBTOTAL						1692	952		50	28	
TOTAL				424	212	2644		635	78		

ROADWAY

LOCATION (PM)		AVERAGE PAVEMENT WIDTH	HOT MIX ASPHALT		TACK COAT	COLD PLANE AC PAVEMENT	IMPORTED BORROW	REMARKS
			SAFETY EDGE	LEVELING				
FROM	TO	LF	TON			SQYD	CY	
13.32	13.33	73.0	0.6	107.7	0.2	386.7	3	
13.33	13.34	67.8	1.7	172.6	0.2		8	
13.34	13.35	62.5	3.1	262.2	0.2		14	
13.35	13.36	57.8	5.1	317.4	0.2		21	
13.36	13.37	53.3	7.4	340.6	0.2		29	
13.37	13.38	49.3	7.4	291.7	0.2		27	
13.38	13.39	46.3	6.9	178.5	0.2		13	
13.39	13.40	44.0	1.1	73.0	0.2		5	
13.40	13.41	42.5	0.1	34.4	0.1	180.0	1	
SUBTOTAL			33.4	1778.1				
TOTAL			1811.5		1.7	566.7	121	

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
Johnathon Jackson | Curtis D. Coburn
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 24-JUN-2013
TIME PLOTTED => 09:37

BORDER LAST REVISED 7/2/2010
USERNAME => s121671
DGN FILE => 10b130pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0052
PROJECT NUMBER & PHASE 01000204461

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	6	8

REGISTERED CIVIL ENGINEER

Cornelis M. Hakim No. C55610 Exp. 12-31-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

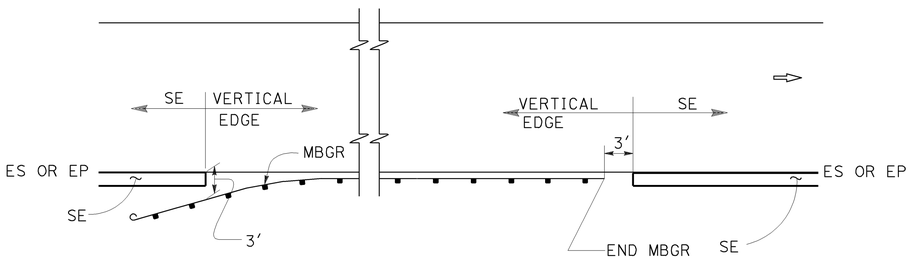
January 20, 2012
PLANS APPROVAL DATE

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.

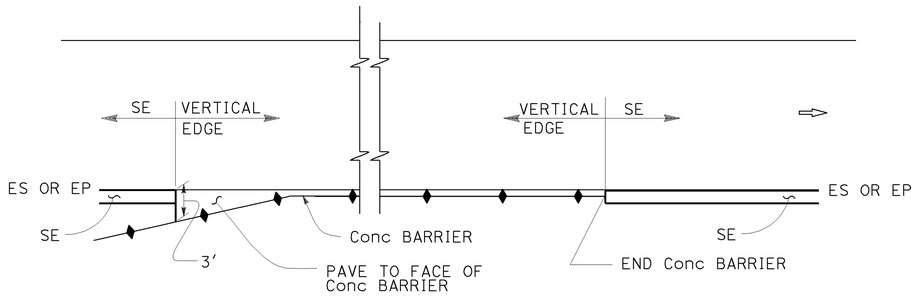
TO ACCOMPANY PLANS DATED June 24, 2013

ABBREVIATIONS:

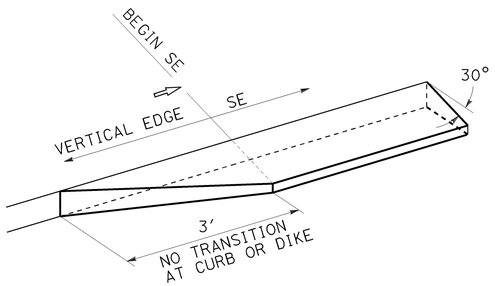
SE SAFETY EDGE



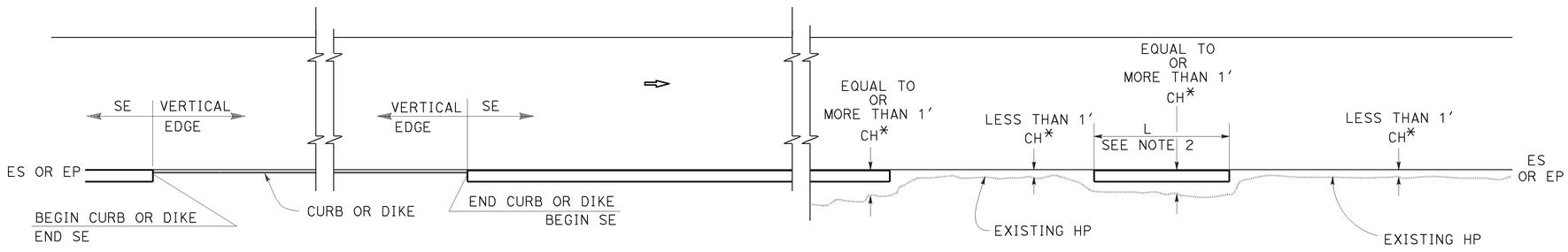
MBGR



CONCRETE BARRIER



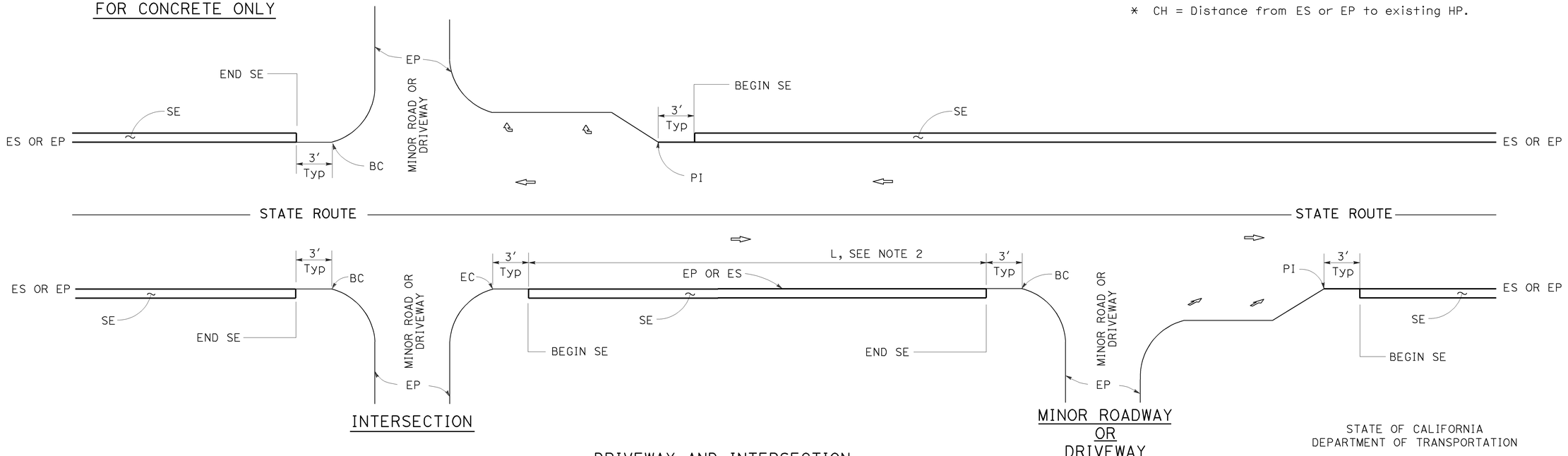
TRANSITION DETAIL FOR CONCRETE ONLY



CURB OR DIKE

NARROW SIDE SLOPE

* CH = Distance from ES or EP to existing HP.



DRIVEWAY AND INTERSECTION

NOTES:

1. For details not shown, see Revised Standard Plans RSP P75 and RSP P76.
2. Safety edge is optional when L is less than 30′.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS

NO SCALE

RSP P74 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P74

2010 REVISED STANDARD PLAN RSP P74

01-05-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	7	8

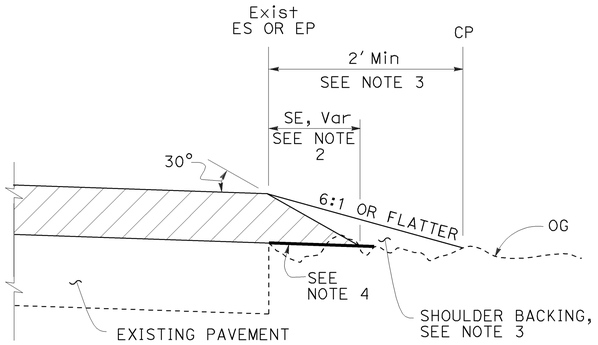
REGISTERED CIVIL ENGINEER

January 20, 2012
PLANS APPROVAL DATE

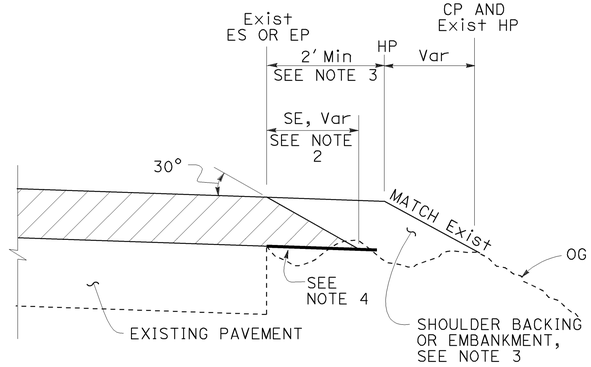
Cornelis M. Hakim
No. C55610
Exp. 12-31-12
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

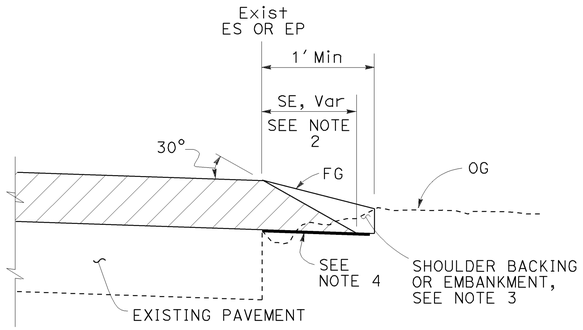
TO ACCOMPANY PLANS DATED June 24, 2013



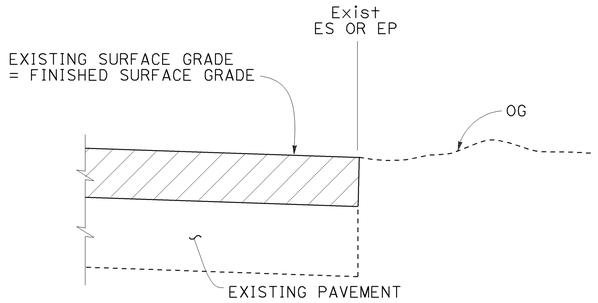
CASE A
Safety Edge



CASE B
Safety Edge



CASE C
Safety Edge



CASE D
Vertical Edge

LEGEND:

HMA OVERLAY

HMA OR CONCRETE OVERLAY

CONCRETE OVERLAY

ABBREVIATIONS:

SE SAFETY EDGE
TT TOTAL THICKNESS OF SE

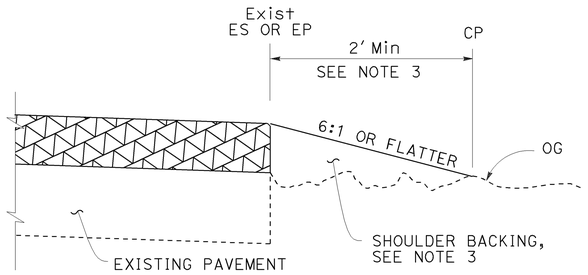
TABLE A
EDGE TREATMENT FOR VARIOUS OVERLAY THICKNESS AND CONDITIONS

	OVERLAY THICKNESS	
FIELD CONDITION	LESS THAN 0.15′	0.15′ OR MORE
Exist SLOPE 6:1 OR FLATTER	CASE E	CASE A
Exist SLOPE 3:1 TO 6:1	CASE E	CASE B
Exist SLOPE STEEPER THAN 3:1	CASE F	CASE F
CUT SECTION (REPLACE, COLD PLANE, MILL PAVEMENT)	CASE D	CASE C

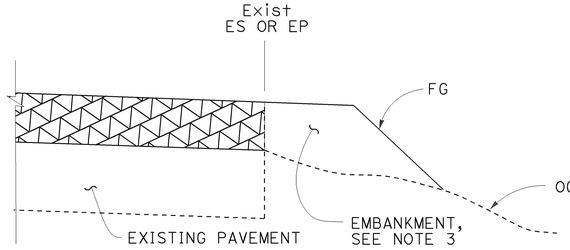
ADDITIONAL HMA OR CONCRETE QUANTITIES FOR SE/SIDE/MILE

TYPICAL CROSS SECTION	TT	TOTAL ADDITIONAL MATERIAL FOR SE/SIDE/MILE		
		HMA (TON)	CONCRETE (CY)*	CONCRETE (CY)**
TT	0.15′	NA	NA	NA
	0.20′	13.7	NA	NA
	0.30′	30.9	NA	NA
	0.40′	54.9	NA	NA
	0.45′	69.4	NA	NA
TT, 0.43′	0.50′	84.2	NA	NA
	0.60′	113.9	NA	NA
	0.70′	143.6	70.9	94.2
	0.80′	173.3	85.6	112.2
	0.90′	203.0	100.3	130.2
	1.00′	232.7	114.9	148.2
	1.10′	262.4	129.6	166.2
	1.20′	292.1	144.3	184.2

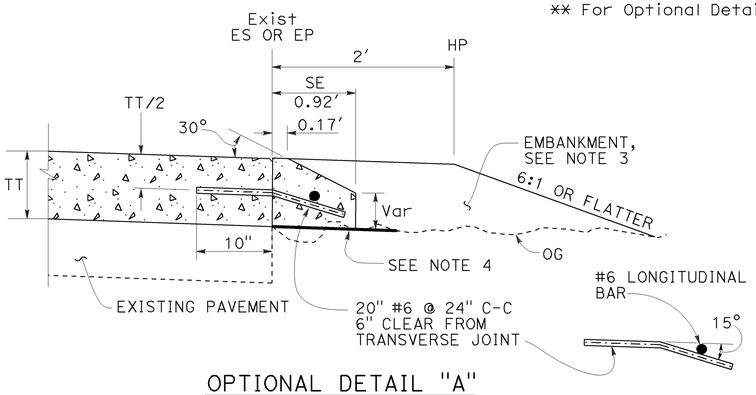
* For Detail "A"
** For Optional Detail "A"



CASE E
Vertical Edge



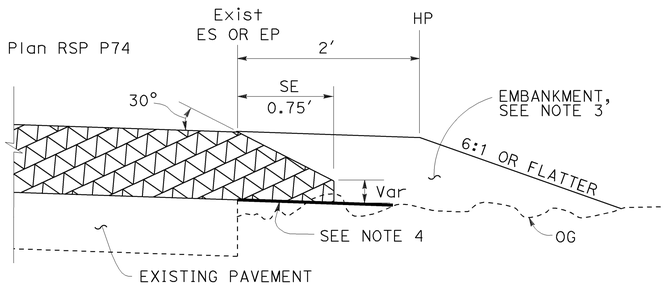
CASE F
Vertical Edge
* See Table A and Revised Std Plan RSP P74



OPTIONAL DETAIL "A"
For concrete overlay
See Note 5

NOTES:

1. For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74.
2. Details shown for HMA overlay thickness less than 0.43′. See Detail "A" for HMA overlay thickness more than 0.43′ or concrete overlay.
3. For locations and limits of shoulder backing or embankment see project plans.
4. Grade existing ground to place safety edge. 1′ minimum width
5. Safety edge transverse joint must match overlay transverse joint. End of #6 longitudinal bar must be 2" ±½" clear from transverse joint.
6. Safety edge is not needed in the area of MBGR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.



DETAIL "A"
For HMA overlay thickness more than 0.43′ or concrete overlay

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS-OVERLAYS

NO SCALE

RSP P75 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P75

2010 REVISED STANDARD PLAN RSP P75

01-09-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	DN	101	13.3	8	8

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED June 24, 2013

NOTES:

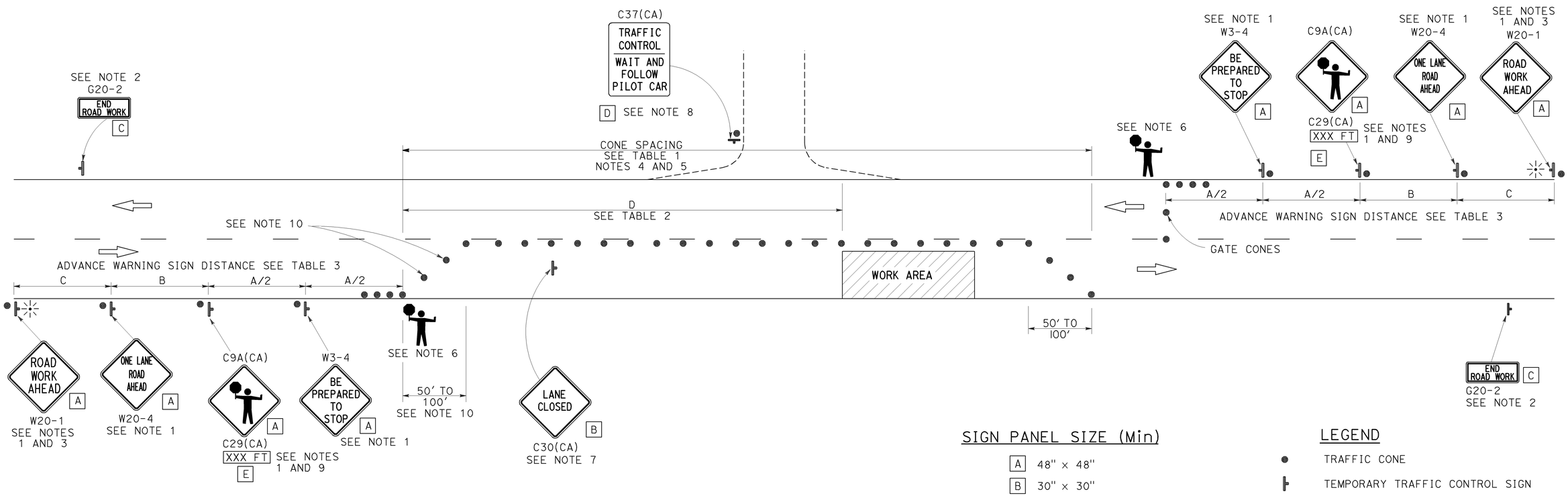
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, 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 LANE CLOSURE WITH REVERSIBLE CONTROL



NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. 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.
7. 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.
8. 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.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

4-2-13