Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	1	12

INDEX OF PLANS

SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS
3	CONSTRUCTION AREA SIGNS
4-5	PAVEMENT DELINEATION QUANTITIES
6_7	SUMMARY OF QUANTITIES
8-9	TRAFFIC CONTROL SYSTEMS
10-12	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

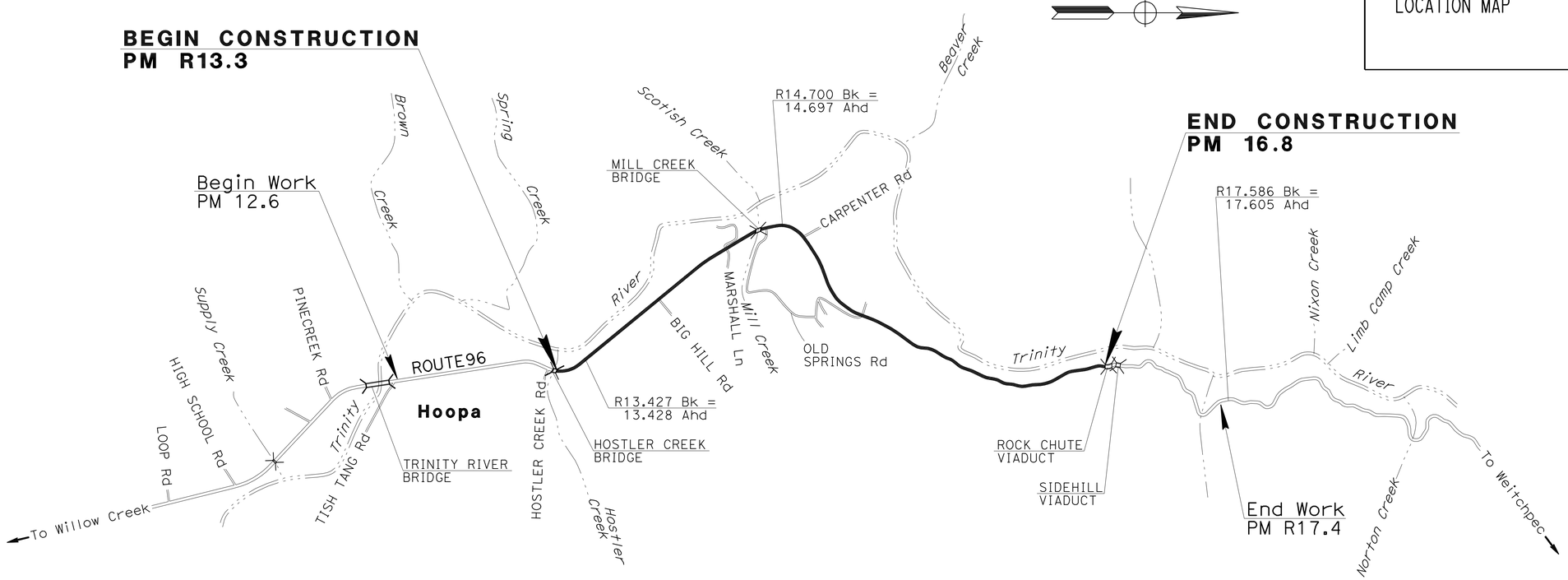
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN HUMBOLDT COUNTY NEAR HOOPA FROM HOSTLER CREEK BRIDGE TO ROCK CHUTE VIADUCT

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



Chris Ghidinelli 2/28/13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 28, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Chris Ghidinelli
No. 77294
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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

NO SCALE

PROJECT MANAGER Royal B. McCarthy

DESIGN ENGINEER Royal B. McCarthy

CONTRACT No.	01-0C7304
PROJECT ID	0113000038

LAST REVISION 00-00-00

DATE PLOTTED => 28-FEB-2013
TIME PLOTTED => 12:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	2	12

Chris Ghidinelli 2/28/13
REGISTERED CIVIL ENGINEER DATE

February 28, 2013
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REGISTERED PROFESSIONAL ENGINEER Chris Ghidinelli No. 77294 Exp 6/30/13 CIVIL STATE OF CALIFORNIA

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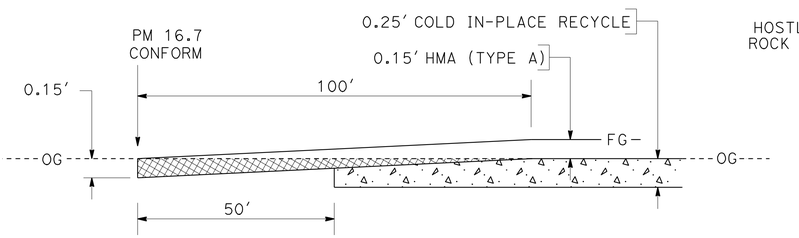
NOTES

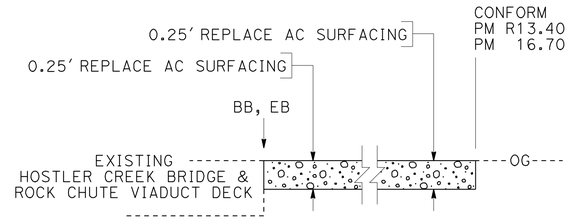
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
4. IN AREAS WHERE THE WIDTH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

LEGEND

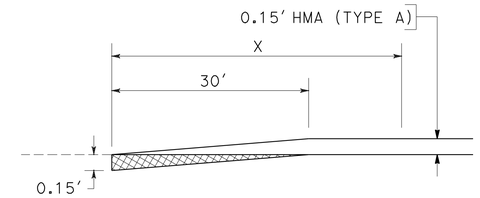
- LIMITS OF COLD PLANE AC PAVEMENT PRIOR TO HMA (TYPE A) OVERLAY
- LIMITS OF SURFACING
- LIMITS OF COLD IN-PLACE RECYCLE
- LIMITS OF REPLACE AC SURFACING



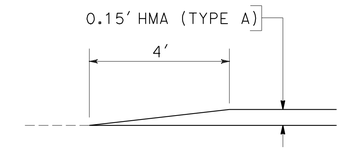
COLD PLANE AC PAVEMENT AT CONFORM



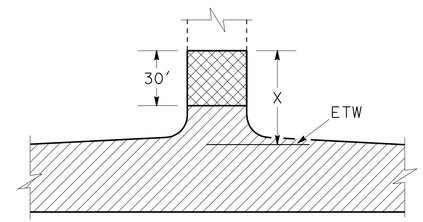
REPLACE AC SURFACING AT HOSTLER CREEK BRIDGE & ROCK CHUTE VIADUCT



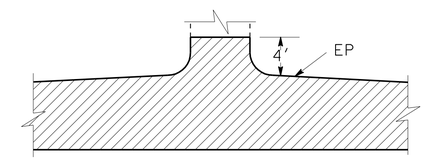
COLD PLANE AC PAVEMENT AT PUBLIC ROAD CONNECTIONS



HMA CONFORM AT PRIVATE ROAD CONNECTIONS



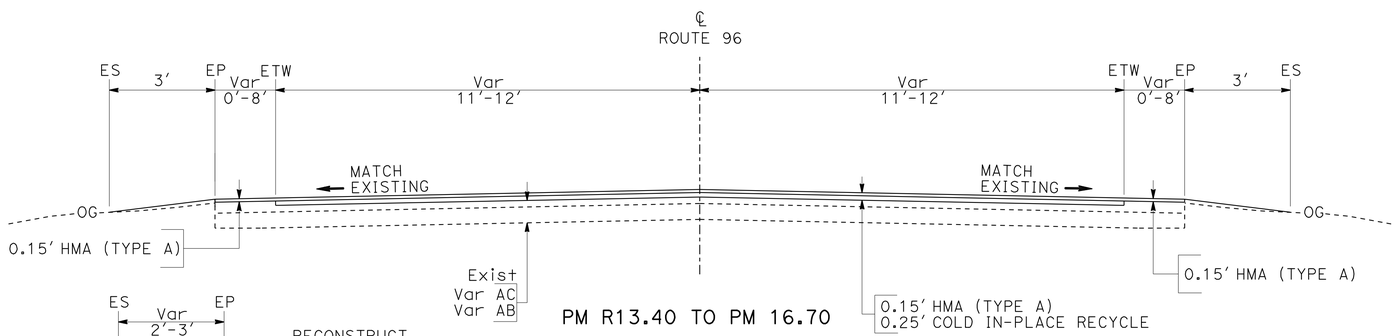
PUBLIC ROAD CONNECTION



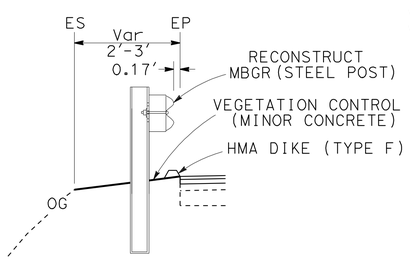
PRIVATE ROAD CONNECTION

LOCATION	PM	X FT
CARPENTER Ln	15.38 L+	30
MILL CREEK Rd	15.38 R+	30
CARPENTER Rd	14.85 L+	30
MILL CREEK Rd	R14.61 L+	30
RIVER ACCESS Rd	R14.37 L+	30
MARSHALL Ln	R14.37 R+	30
BIG HILL Rd	13.93 R+	40

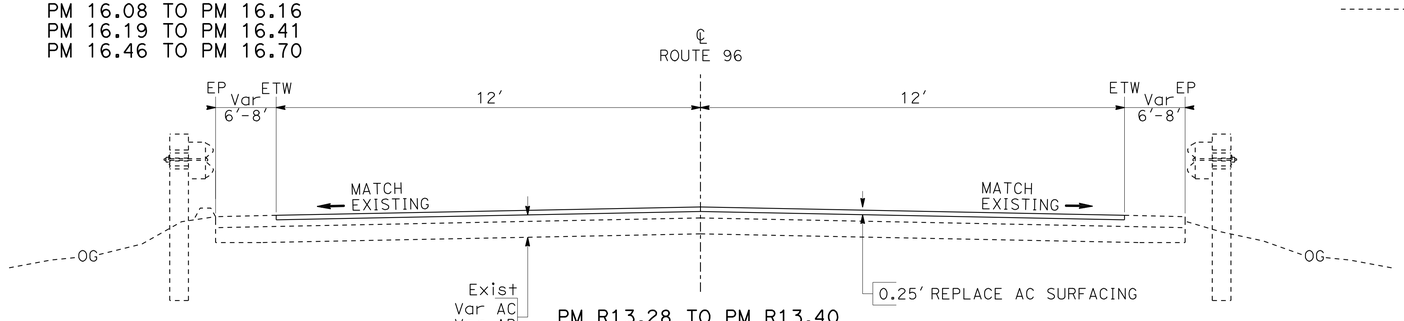
LIMITS OF SURFACING FOR PUBLIC ROAD CONNECTIONS



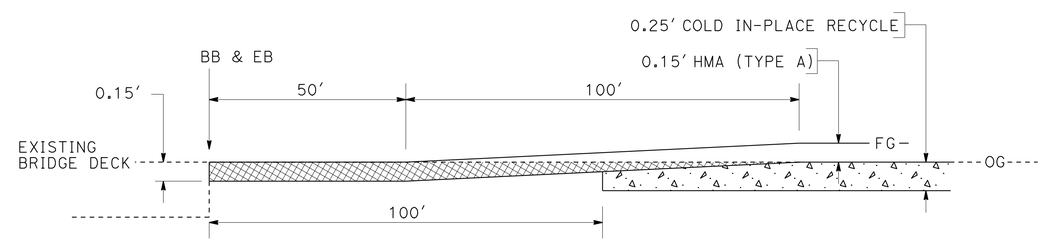
PM R13.40 TO PM 16.70



PM 16.08 TO PM 16.16
PM 16.19 TO PM 16.41
PM 16.46 TO PM 16.70



PM R13.28 TO PM R13.40
PM 16.70 TO PM R16.76



LOCATION	PM
BB MILL CREEK	R14.55
EB MILL CREEK	R14.58

COLD PLANE AC PAVEMENT AT BB & EB

TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS X-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: Royal B. McCarthy
CALCULATED-DESIGNED BY: Johnathan Jackson
CHECKED BY: Curtis Coburn
REVISED BY / DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 28-FEB-2013 | TIME PLOTTED => 12:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	3	12

Chris Ghidinelli 2/28/13
REGISTERED CIVIL ENGINEER DATE

February 28, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Chris Ghidinelli
No. 77294
Exp 6/30/13
CIVIL
STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

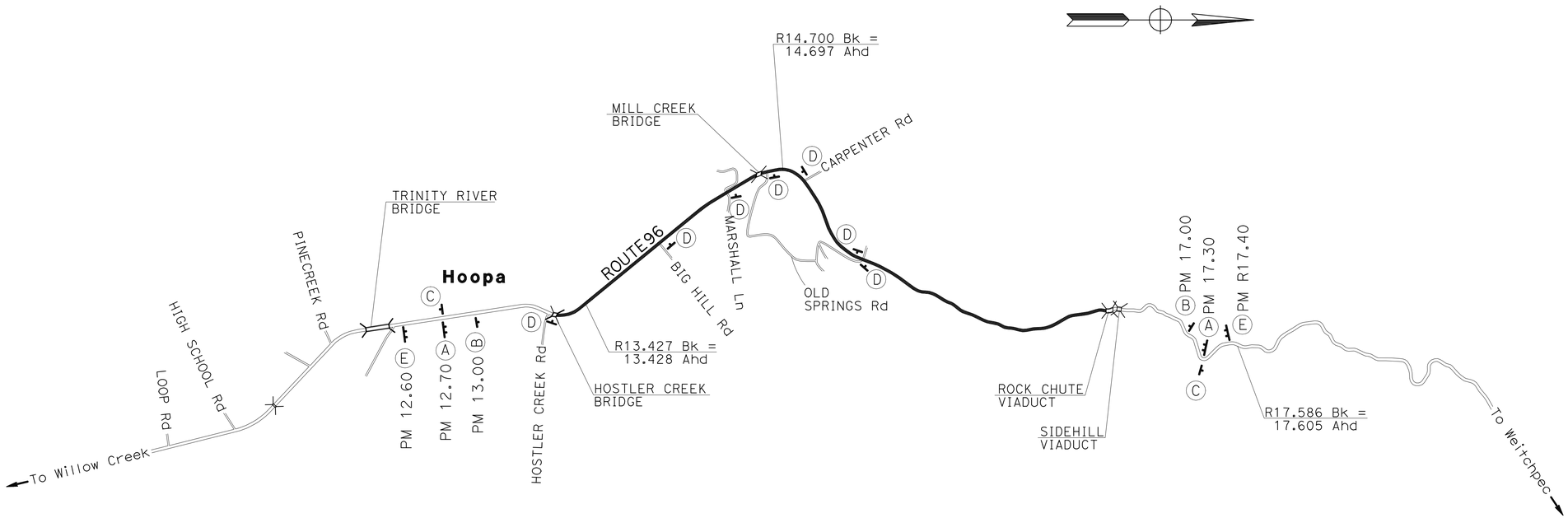
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
A	G20-1	ROAD WORK NEXT 5 MILES	60"x36"	2-4"x6"	2
	C23B	RESURFACING	60"x18"		
B	W11-1	BICYCLE SYMBOL	36"x36"	1-4"x6"	2
	W16-1	SHARE THE ROAD	24"x30"		
C	G20-2	END ROAD WORK	36"x18"	1-4"x4"	2
D	W20-1	ROAD WORK AHEAD	36"x36"	1-4"x6"	7
E	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108"x42"	2-6"x6"	2

C23B
60"x18"
4" CAPS
BLACK/ORANGE

RESURFACING

NOTES:

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



CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

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

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THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKERS

LOCATION (PM)		DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)				PAVEMENT MARKER (REFLECTIVE)		PAVEMENT MARKER (REFLECTIVE-RECESSED)	TEMPORARY TRAFFIC STRIPE (PAINT)	
				4 INCH YELLOW	4 INCH WHITE	4 INCH WHITE (BROKEN 12-3)	4 INCH WHITE (BROKEN 36-12)	TYPE D YELLOW (TWO-WAY)	TYPE H CLEAR (ONE WAY)	TYPE D YELLOW (TWO-WAY)	4 INCH YELLOW	REMARKS
FROM	TO		LF					EA				
R13.26	R13.44	22	951	1902				82			951	Beg AT BB HOSTLER CREEK Br
R13.26 R+	R13.44 R+	27B	951		951							Beg AT BB HOSTLER CREEK Br
R13.26 L+	R13.44 L+	27B	951		951							Beg AT BB HOSTLER CREEK Br
EQUATION Sta R13.437 Bk = 13.428 Ahd												
13.44	13.52	22	423	846				38			423	
13.44 R+	13.88 R+	27B	2324		2324							
13.44 L+	13.52 L+	27B	4858		4858							
13.52	13.62	19L	528	528			528	12	23		528	
13.62	14.02	6	2112				2112	45			2112	
13.88 R+	13.94 R+	27C	317			317						
13.93 R+		22	33	66				6			33	BIG HILL Rd
13.94 R+	R14.35 R+	27B	2165		2165							
14.02	14.18	19R	845	845			845	19	37		845	
14.18	R14.37	22	1004	2008				86			1004	
R14.35 R+	R14.39 R+	27C	212			212						
R14.36 R+	R14.38 L+	27C	106			106						
R14.37 R+		22	20	40				4			20	MARSHALL Ln
R14.37 L+		22	20	40				4			20	RIVER ACCESS Rd
R14.38	R14.50	22	634	1268				56			634	
R14.38 L+	R14.70 L+	27B	1690		1690							
R14.39 R+	R14.59 R+	27B	1056		1056							
R14.50	R14.60	22	528	1056						46	528	
R14.59 R+	R14.64 R+	27C	265			265						
R14.61 R+		22	15	30				4			15	MILL CREEK Rd
R14.61	R14.70	22	476	952						42	476	
R14.64 R+	R14.70 R+	27B	317		317							
EQUATION Sta R14.700 Bk = 14.697 Ahd												
14.70 L+	14.84 L+	27B	740		740							
14.70	15.38	22	3591	7182						302	3591	
14.70 R+	15.38 R+	27B	3591		3591							
14.84 L+	14.85 L+	27C	53			53						
14.84 R+		22	18	36				4			18	CARPENTER Rd
14.85 L+	15.37 L+	27B	2746		2746							
15.37 L+	15.39 L+	27C	106			106						
15.38 R+	15.39 R+	27C	53			53						
15.38 R+		22	23	46				4			23	MILL CREEK Rd
15.38 L+		22	18	36				4			18	CARPENTER Ln
15.39	16.79	22	7392	14784						618	7392	END AT EB ROCK CHUTE VIADUCT
15.39 R+	16.79 R+	27B	7392		7392							END AT EB ROCK CHUTE VIADUCT
15.39 L+	16.79 L+	27B	7392		7392							END AT EB ROCK CHUTE VIADUCT
		SUBTOTAL		31665	36173			368	60			
		TOTAL		67838		1112	3485	428		1008	18631	

PAVEMENT DELINEATION QUANTITIES
PDQ-1

REVISED BY | DATE REVISED
Johnathan Jackson | Curtis 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 => 28-FEB-2013 | TIME PLOTTED => 12:59

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Chris Ghidinelli 2/28/13
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Chris Ghidinelli
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CIVIL
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REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION (PM)	ORIENTATION	LEGEND	AREA SQFT	REMARKS
13.92 R†	FNBT	(2) STOP	44	BIG HILL Rd
13.92 R†	FNBT	LIMIT LINE	36	BIG HILL Rd
R14.37 R†	FNBT	(2) STOP	44	MARSHALL Ln
R14.37 R†	FNBT	LIMIT LINE	44	MARSHALL Ln
R14.37 L†	FSBT	STOP	22	RIVER ACCESS Rd
R14.37 L†	FSBT	LIMIT LINE	27	RIVER ACCESS Rd
R14.61 R†	FNBT	(2) STOP	44	MILL CREEK Rd
R14.61 R†	FNBT	LIMIT LINE	39	MILL CREEK Rd
14.85 L†	FSBT	STOP	22	CARPENTER Rd
14.85 L†	FSBT	LIMIT LINE	18	CARPENTER Rd
15.38 R†	FNBT	STOP	22	MILL CREEK Rd
15.38 R†	FNBT	LIMIT LINE	23	MILL CREEK Rd
15.38 L†	FSBT	STOP	22	CARPENTER Ln
15.38 L†	FSBT	LIMIT LINE	37	CARPENTER Ln
		TOTAL	444	

THERMOPLASTIC PAVEMENT MARKING

LOCATION (PM)	ORIENTATION	LEGEND	AREA SQFT	REMARKS
13.92 R†	FNBT	(2) STOP	44	BIG HILL Rd
13.92 R†	FNBT	LIMIT LINE	36	BIG HILL Rd
R14.37 R†	FNBT	(2) STOP	44	MARSHALL Ln
R14.37 R†	FNBT	LIMIT LINE	44	MARSHALL Ln
R14.37 L†	FSBT	STOP	22	RIVER ACCESS Rd
R14.37 L†	FSBT	LIMIT LINE	27	RIVER ACCESS Rd
R14.61 R†	FNBT	(2) STOP	44	MILL CREEK Rd
R14.61 R†	FNBT	LIMIT LINE	39	MILL CREEK Rd
14.85 L†	FSBT	STOP	22	CARPENTER Rd
14.85 L†	FSBT	LIMIT LINE	18	CARPENTER Rd
15.38 R†	FNBT	STOP	22	MILL CREEK Rd
15.38 R†	FNBT	LIMIT LINE	23	MILL CREEK Rd
15.38 L†	FSBT	STOP	22	CARPENTER Ln
15.38 L†	FSBT	LIMIT LINE	37	CARPENTER Ln
		TOTAL	444	

PAVEMENT DELINEATION QUANTITIES
PDQ-2

REVISED BY | DATE REVISED
Johnathan Jackson | Curtis 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 => 28-FEB-2013 | TIME PLOTTED => 12:59

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Chris Ghidinelli 2/28/13
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February 28, 2013
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REGISTERED PROFESSIONAL ENGINEER Chris Ghidinelli No. 77294 Exp 6/30/13 CIVIL STATE OF CALIFORNIA

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ROADWAY

LOCATION (PM) FROM	TO	Avg WIDTH	LENGTH	REPLACE ASPHALT CONCRETE SURFACING	COLD PLANE ASPHALT CONCRETE PAVEMENT	COLD IN-PLACE RECYCLING	EMULSIFIED RECYCLING AGENT	COLD IN-PLACE RECYCLING ADDITIVE	SAND COVER (SEAL)	ASPHALTIC EMULSION (FOG SEAL COAT)	HOT MIX ASPHALT (TYPE A)	TACK COAT	REMARKS
		LF		CY	SQYD		TON						
R13.28	R13.40	24	634	141									
R13.28 R+	R13.40 R+	8	634							0.1			SHOULDER
R13.28 L+	R13.40 L+	8	634							0.1			SHOULDER
R13.40	R13.42	40	106		445								COLDPLANE TAPER 0.25′ TO 0.00′ DEPTH OVER 100′
R13.40	R13.44	40	212								110.8	0.4	
R13.41	R13.44	24	159			423	2.7	0.8	0.5	0.1			
EQUATION Sta R13.437 Bk = 13.428 Ahd													
13.43	13.50	40	370								193.8	0.7	
13.43	13.93	24	2640			7040	45.5	13.7	7.1	1.8			
13.50	13.93	28	2271								833.4	2.9	
13.93 R+		164	40		547						86.0	0.3	BIG HILL Rd
13.93	R14.23	28	1584								581.5	2.1	
13.93	R14.23	24	1584			4225	27.3	8.2	4.3	1.1			
R14.23	R14.25	28	106								38.8	0.1	
R14.23	R14.37	24	740			1972	12.8	3.8	2.0	0.5			
R14.25	R14.37	38	634								315.6	1.1	
R14.37 R+		166	30		719						65.3	0.2	MARSHALL Ln
R14.37 L+		66	30		218						25.8	0.1	RIVER ACCESS Rd
R14.37	R14.55	38	951								473.5	1.7	
R14.37	R14.53	24	845			2253	14.6	4.4	2.3	0.6			
R14.52	R14.54	38	106		423								COLDPLANE TAPER 0.00′ TO 0.25′ DEPTH OVER 100′
R14.54	R14.55	38	53		212								COLDPLANE 0.25′ DEPTH FOR 50′
R14.58	R14.59	38	53		212								COLDPLANE 0.25′ DEPTH FOR 50′
R14.59	R14.61	38	106		423								COLDPLANE TAPER 0.25′ TO 0.00′ DEPTH OVER 100′
R14.58	R14.61	38	159								78.9	0.3	
R14.59	R14.61	10	100								13.1	0.1	WIDE SHOULDER
R14.60	R14.61	24	53			141	0.9	0.3	0.2	0.1			
R14.61 R+		156	30		520						61.4	0.2	MILL CREEK Rd
R14.61	R14.70	38	476								236.7	0.8	
R14.61	R14.70	24	476			1268	8.2	2.5	1.3	0.3			
EQUATION Sta R14.700 Bk = 14.697 Ahd													
14.70	14.85	28	793								290.7	1.0	
14.70	14.85	24	793			2113	13.7	4.1	2.2	0.5			
14.85 L+		50	30		167						19.7	0.1	CARPENTER Rd
14.85	15.38	28	2799								1027.2	3.6	
14.85	15.38	24	2799			7463	48.3	14.5	7.5	1.9			
15.38 L+		161	30		253						63.1	0.2	CARPENTER Ln
15.38 R+		76	30		535						29.9	0.1	MILL CREEK Rd
15.38	16.70	28	6970								2558.4	9.0	
15.38	16.69	24	6917			18445	119.3	35.8	18.5	4.6			
15.88 R+	15.97 R+	15	475								93.4	0.3	WIDE SHOULDER
16.68	16.70	28	106		312								COLDPLANE TAPER 0.00′ TO 0.25′ DEPTH OVER 100′
16.70	16.76	24	317	71									
16.70	16.76	8	317							0.1			SHOULDER
16.70	16.76	8	317							0.1			SHOULDER
			TOTAL	212	4986	45343	293.3	88.1	45.9	11.9	7197.0	25.3	

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: Royal B. McCarthy
CALCULATED-DESIGNED BY: Johnathan Jackson
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February 28, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Chris Ghidinelli No. 77294 Exp 6/30/13 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.

LEGEND

BPA - BURIED POST ANCHOR

NC - NO CHANGE

SRT - TERMINAL SYSTEM (TYPE SRT)

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

METAL BEAM GUARD RAILING

LOCATION (PM) FROM	LOCATION (PM) TO	Exist LENGTH	Exist LEADER	Exist TRAILER	PROPOSED LEADER	PROPOSED TRAILER	LAYOUT TYPE	ALTERNATIVE FLARED TERMINAL SYSTEM	(N) BURIED POST ANCHOR	RECONSTRUCT TERMINAL SYSTEM	VEGETATION CONTROL (MINOR CONCRETE)	GUARD RAILING DELINEATOR	RESET MARKER
		LF						LF	EA		SQYD	EA	
16.08 L+	16.16 L+	437.5	BPA	BPA	NC	NC	11F	437.5	2		153	4	1
16.19 L+	16.42 L+	1187.5	SRT	BPA	NC	NC	11G	1150.0	1	1	432	14	5
16.45 L+	16.70 L+	1375.0		SRT		NC	12CC	1337.5		1	491	12	4
							TOTAL	2925.0	3	2	1076	30	10

DIKE

LOCATION (PM) FROM	LOCATION (PM) TO	LENGTH	REMOVE ASPHALT CONCRETE DIKE	PLACE ASPHALT CONCRETE DIKE (TYPE A)	PLACE ASPHALT CONCRETE DIKE (TYPE E)	PLACE ASPHALT CONCRETE DIKE (TYPE F)	MINOR HOT MIX ASPHALT
		LF	LF				TON
R13.40 R+	13.48 R+	423	423	423			4.7
13.48 R+	13.53 R+	264	264		264		2.8
R14.28 R+	R14.37 R+	476	476		476		5.0
R14.28 L+	R14.37 L+	476	476		476		5.0
R14.37 R+	R14.47 R+	529	529		529		5.5
R14.37 L+	R14.51 L+	740	740		740		7.7
R14.47 R+	R14.53 R+	317	317		317		3.3
R14.53 R+	R14.55 R+	106	106			106	0.3
R14.58 R+	R14.59 R+	53	53			53	0.2
R14.59 R+	R14.61 R+	106	106		106		1.1
R14.61 R+	R14.70 R+	476	476		476		5.0
15.87 R+	15.99 R+	634	634	634			7.1
16.08 L+	16.13 L+	265	265			265	0.8
16.27 L+	16.34 L+	370	370			370	1.0
16.38 L+	16.41 L+	159	159			159	0.5
16.45 L+	16.49 L+	212	212			212	0.6
16.65 L+	16.71 L+	317	317			317	0.9
		TOTAL	5923	1057	3384	1482	51.5

ADJUST FRAME AND COVER

LOCATION (PM)	ORIENTATION	ADJUST FRAME AND COVER TO GRADE	REMARKS
14.85 L+	FSBT	3	CARPENTER Rd
	TOTAL	3	

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

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

LAST REVISION 00-00-00
DATE PLOTTED => 28-FEB-2013
TIME PLOTTED => 12:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	8	12

REGISTERED CIVIL ENGINEER 12-7-12 DATE

February 28, 2013
PLANS APPROVAL DATE

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

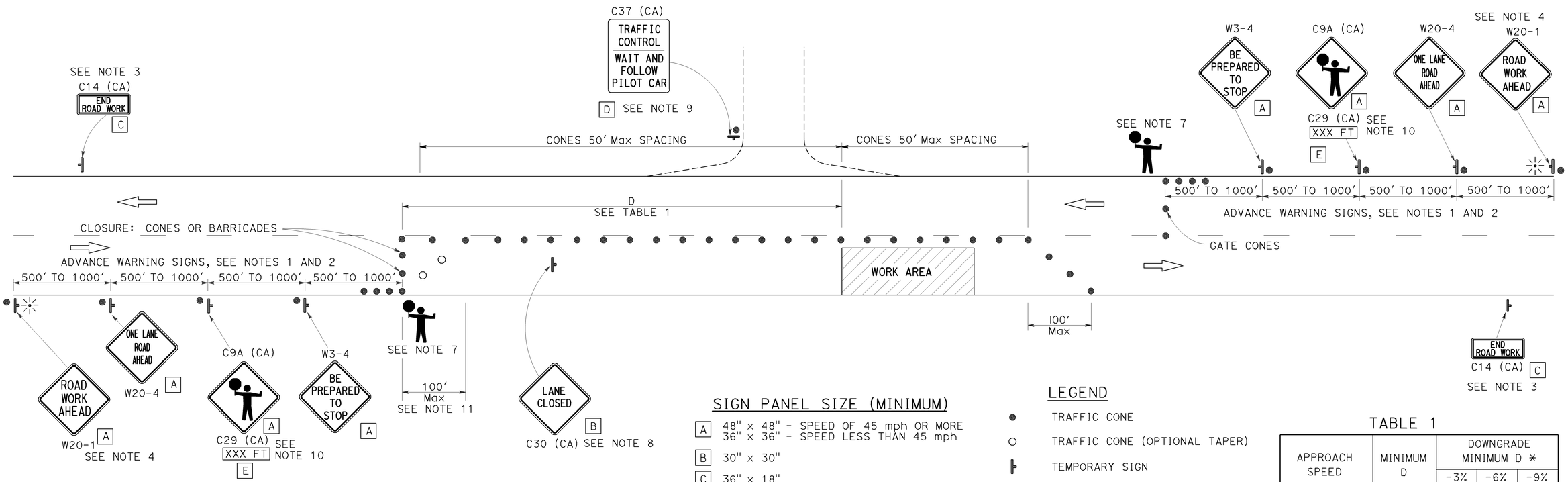
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



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: 36" x 18"
- D: 36" x 42"
- E: 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND 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.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
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 C14 (CA) "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.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 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. 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.
8. 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.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

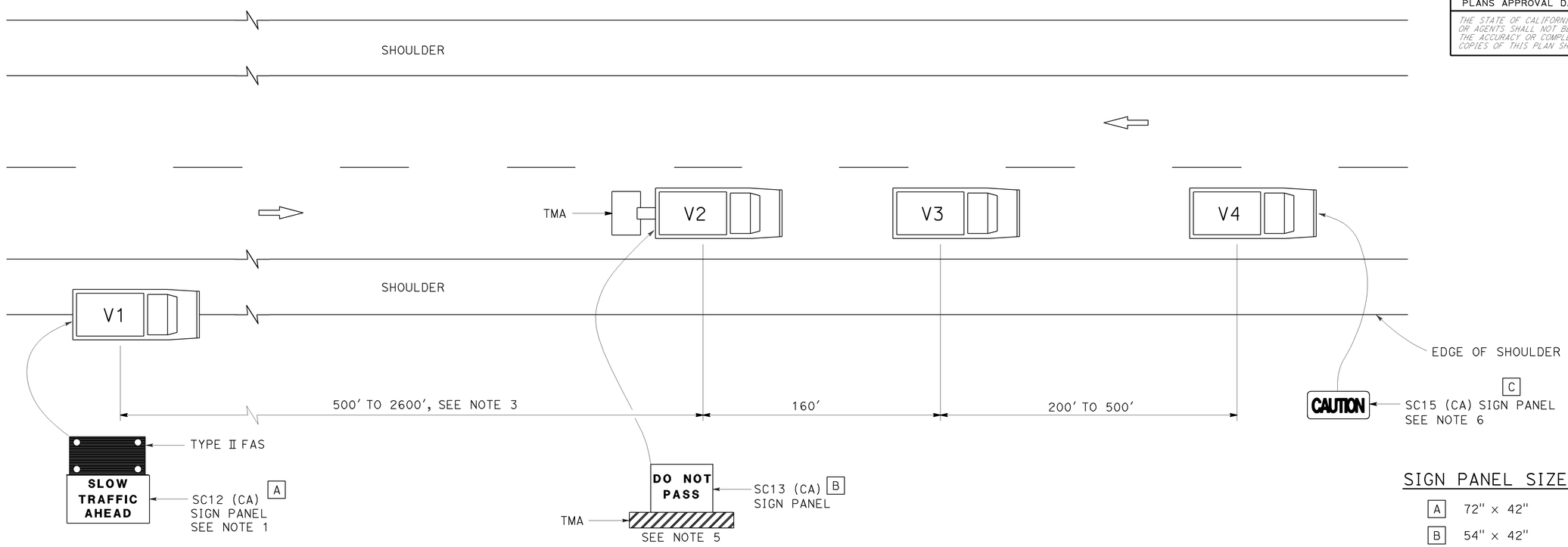
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	9	12

REGISTERED CIVIL ENGINEER 12-7-12 DATE

February 28, 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.



SIGN PANEL SIZE (Min)

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

LEGEND

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

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	10	12

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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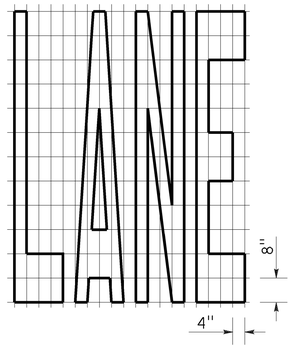
TO ACCOMPANY PLANS DATED February 28, 2013



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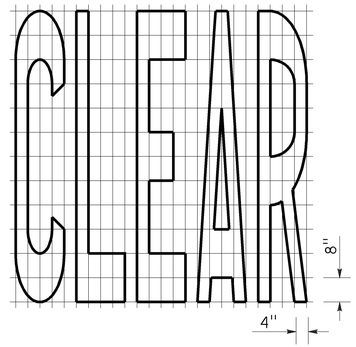

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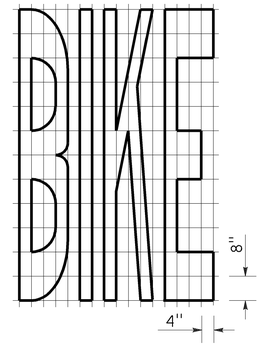

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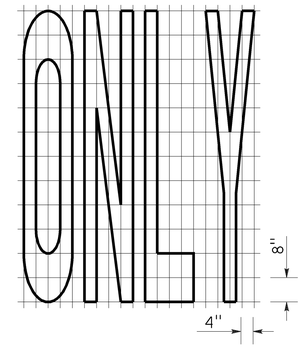

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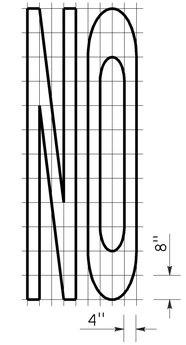

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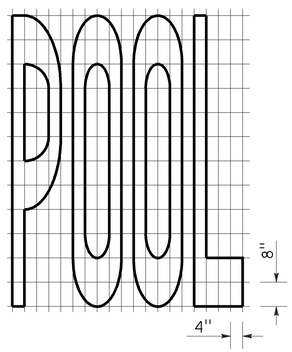

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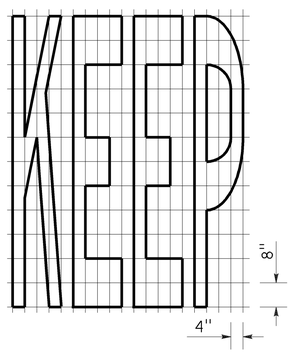

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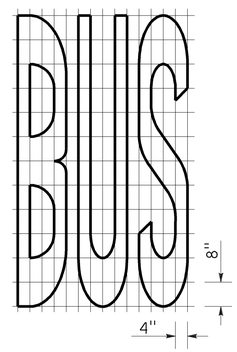

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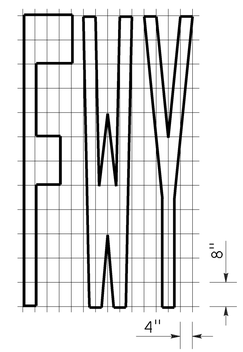

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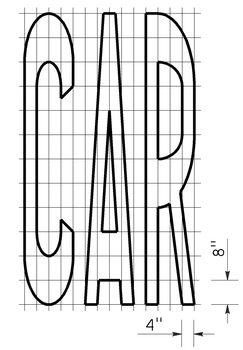
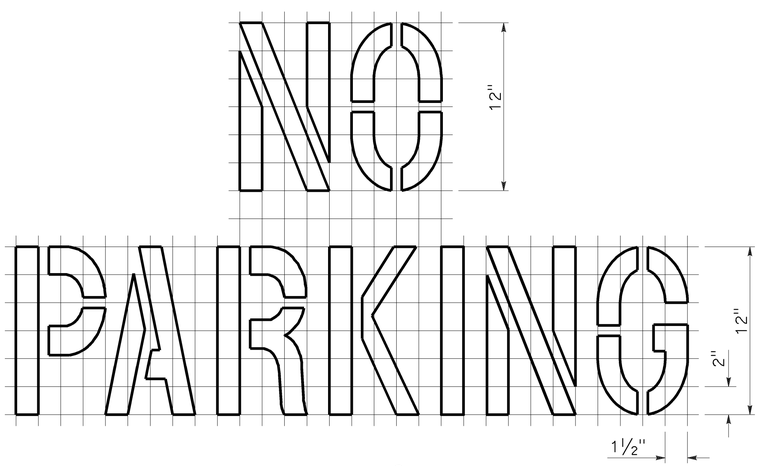
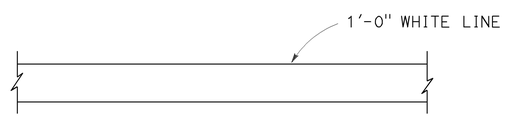


A=17 ft^2

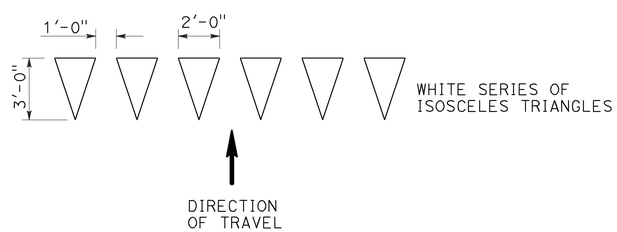
WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft^2
See Notes 6 and 7



LIMIT LINE (STOP LINE)



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

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	11	12

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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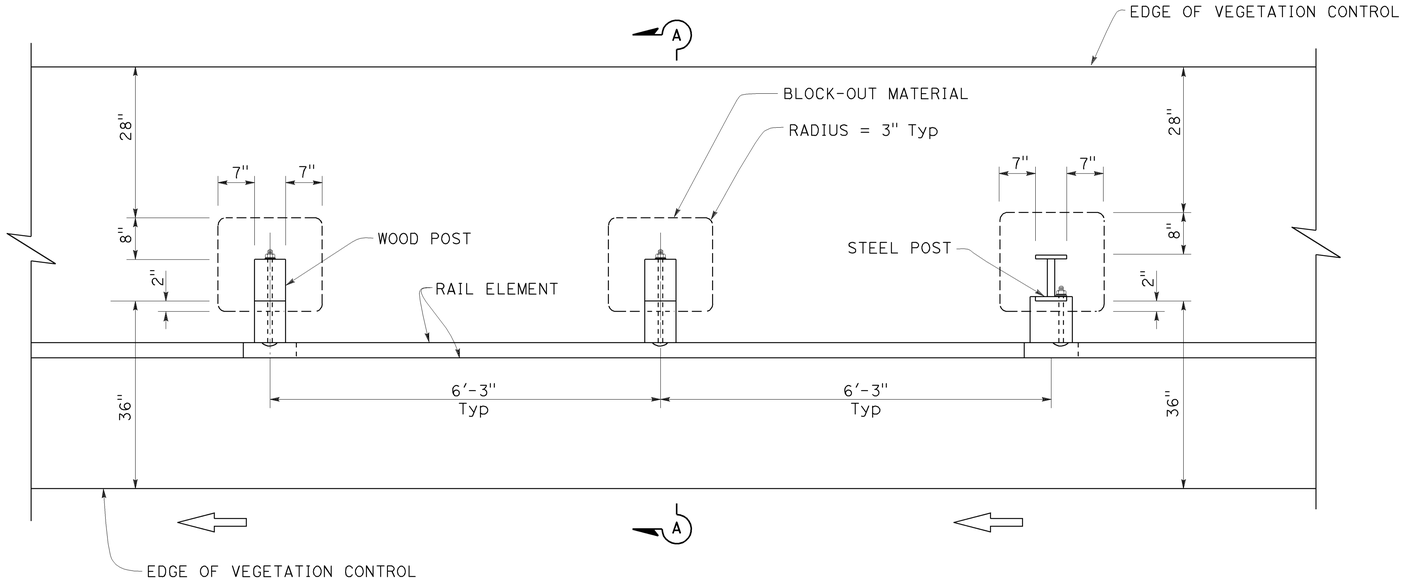
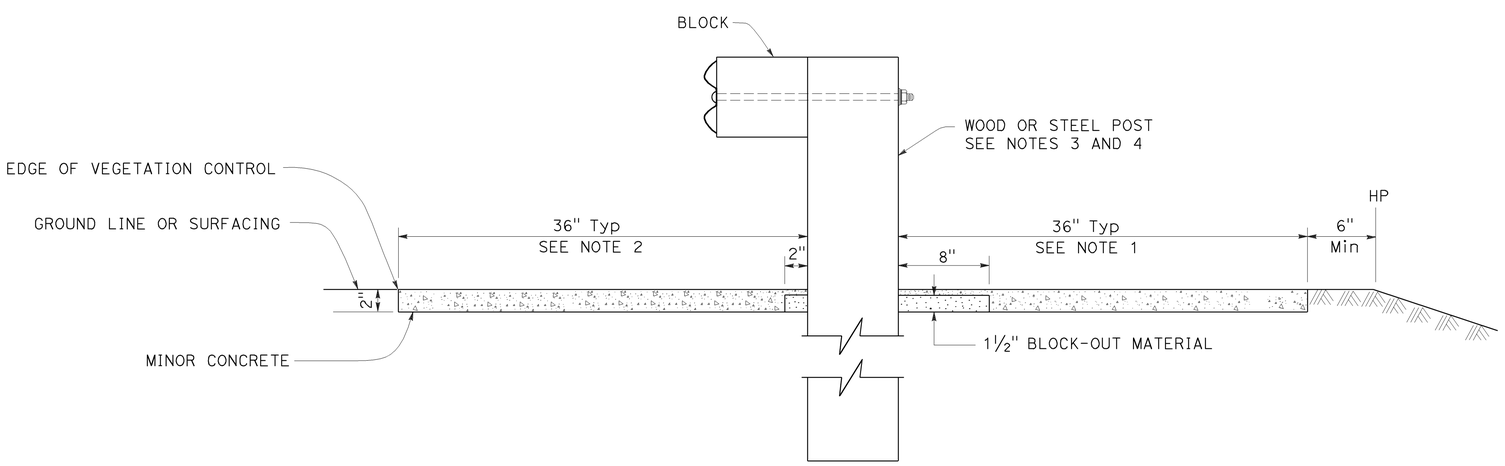
TO ACCOMPANY PLANS DATED February 28, 2013



PLAN



SECTION A-A

NOTES:

1. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.
3. For wood post sizes, see Standard Plan A77C1.
4. For steel post sizes, see Standard Plan A77C2.
5. For details not shown, see Standard Plans A77A1 and A77A2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL VEGETATION CONTROL STANDARD RAILING SECTION

NO SCALE

RSP A77C5 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A77C5 DATED MAY 20, 2011 - PAGE 53 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77C5

2010 REVISED STANDARD PLAN RSP A77C5

9-26-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96	R13.3/16.8	12	12

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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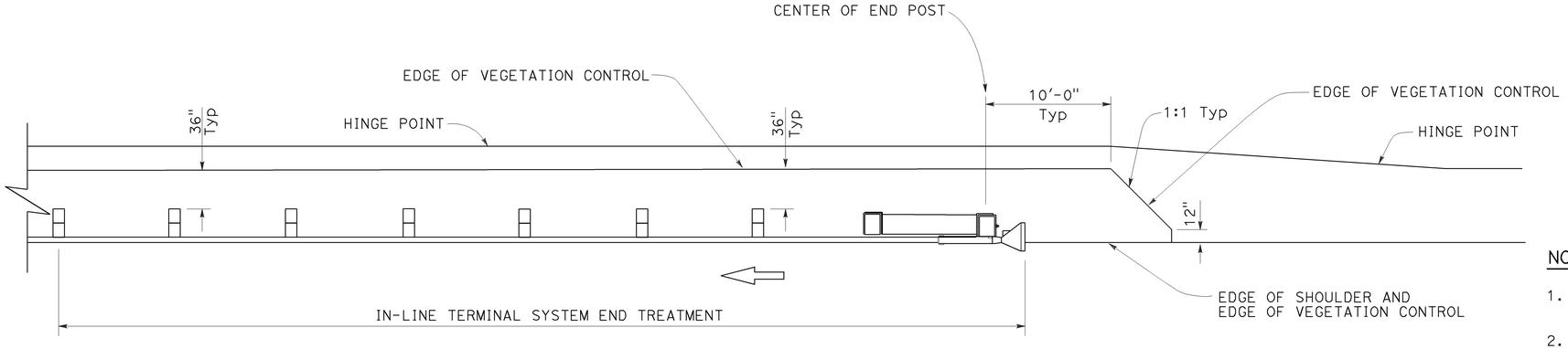
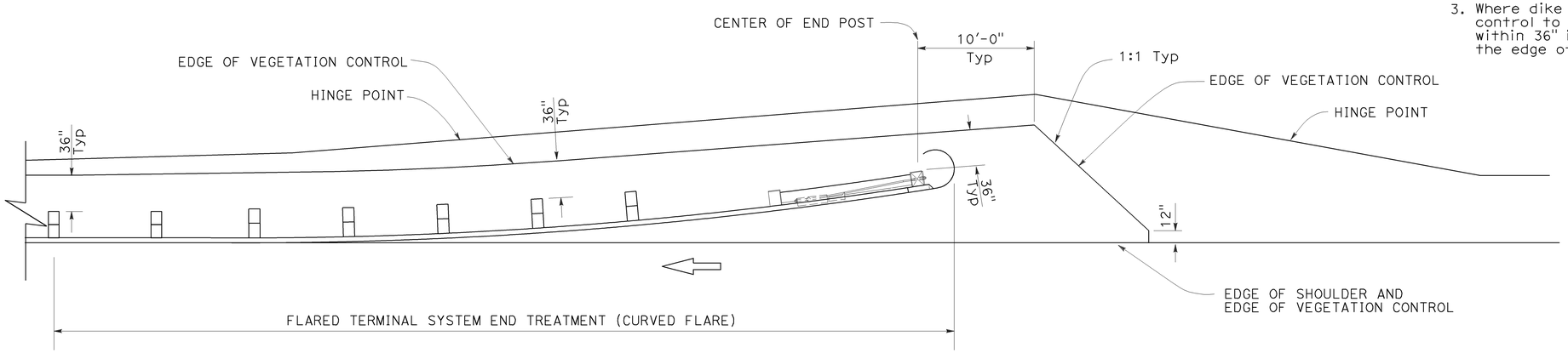
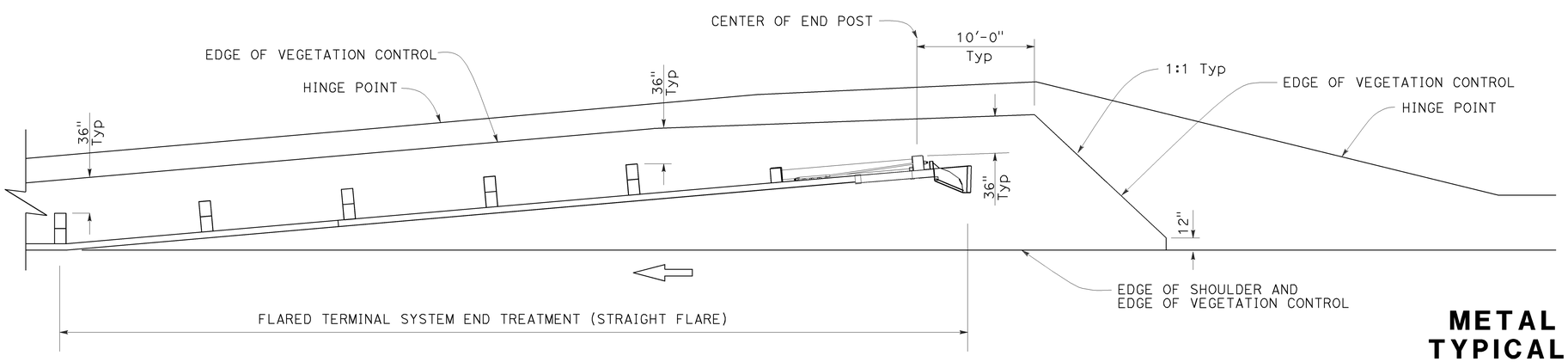


PLAN



PLAN



PLAN

NOTES:

1. See Revised Standard Plan RSP A77C5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL VEGETATION CONTROL FOR TERMINAL SYSTEM END TREATMENTS

NO SCALE

RSP A77C6 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A77C6 DATED MAY 20, 2011 - PAGE 54 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77C6

2010 REVISED STANDARD PLAN RSP A77C6

9-26-12