Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	81.4/R84.7	1	8

ACNH-Q101(215)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

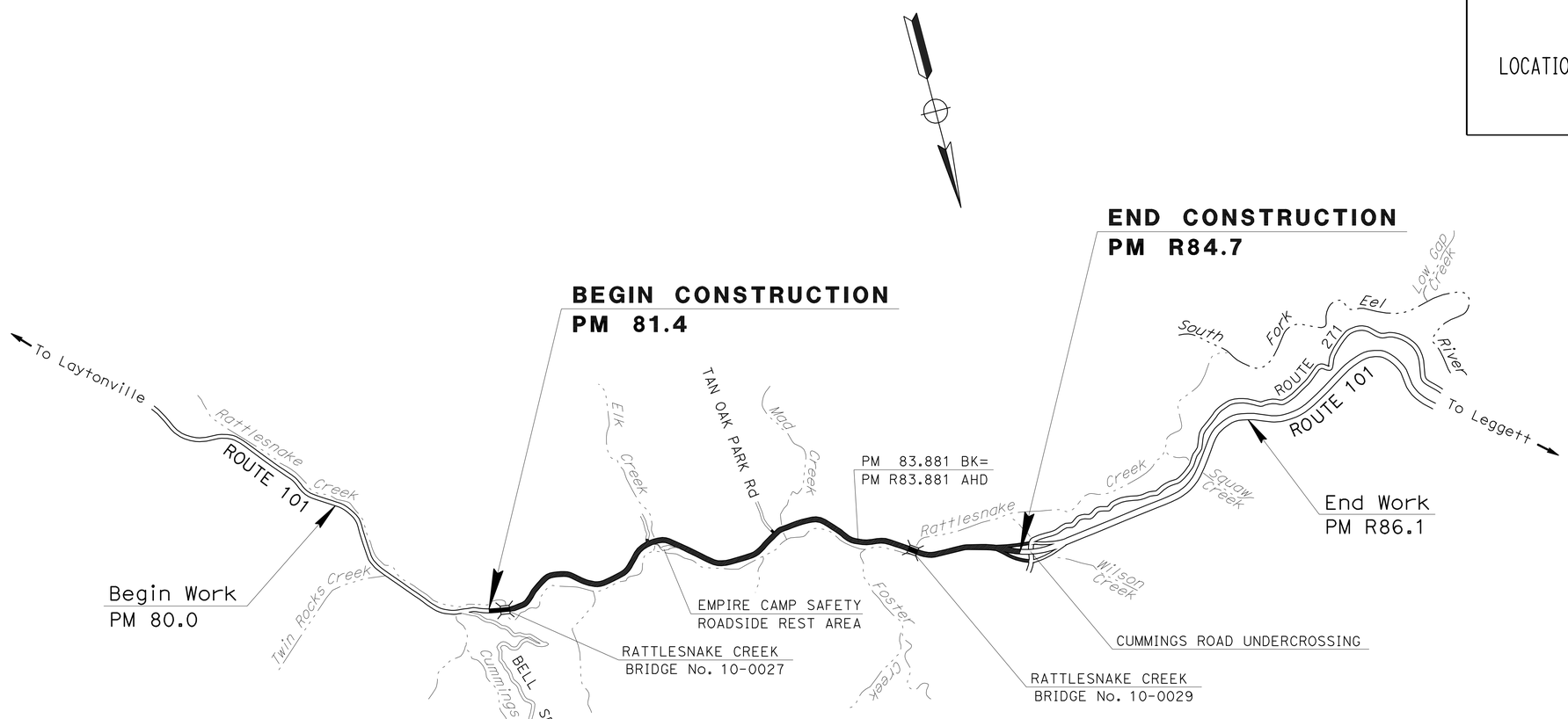
IN MENDOCINO COUNTY NEAR LEGGET FROM 0.1 MILE SOUTH OF RATTLESNAKE CREEK BRIDGE No. 10-0027 TO CUMMINGS ROAD UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

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

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



PROJECT MANAGER: Royal B. McCarthy

DESIGN ENGINEER: Royal B. McCarthy

Curtis D. Coburn 1/24/12
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

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

January 24, 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.

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

NO SCALE

CONTRACT No.	01-0A7004
PROJECT ID	0100020329

LAST REVISION 00-00-00 DATE PLOTTED => 08-FEB-2012 TIME PLOTTED => 13:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	81.4/R84.7	2	8

REGISTERED CIVIL ENGINEER 1/24/12 DATE

January 24, 2012
PLANS APPROVAL DATE

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

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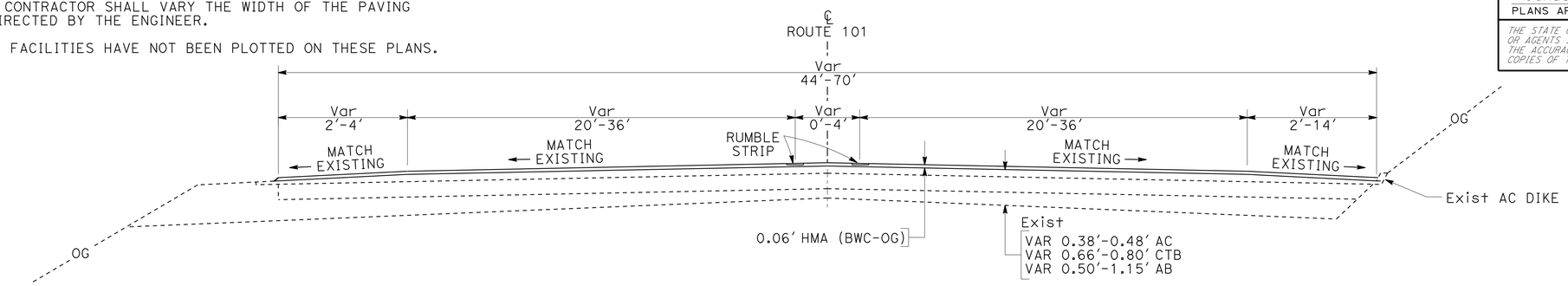
NOTES

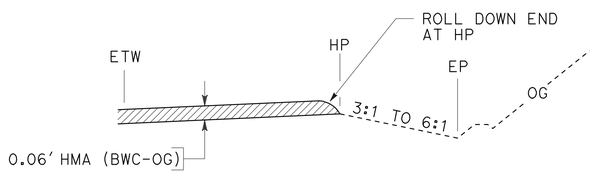
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, THE CONTRACTOR SHALL VARY THE WIDTH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

LEGEND

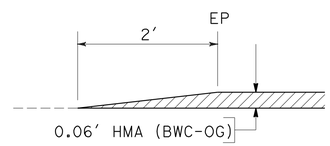
BWC-OG = BONDED WEARING COURSE-OPEN GRADED



PM 81.44 TO PM R84.69



(BWC-OG) CONFORM HIGH SIDE SUPER DITCH

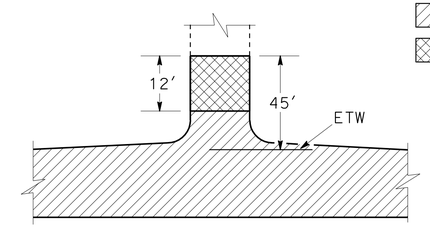


(BWC-OG) CONFORM PRIVATE ROAD CONNECTIONS

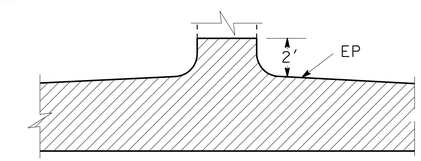
LEGEND

LIMITS OF SURFACING

LIMITS OF COLD PLANE AC PAVEMENT

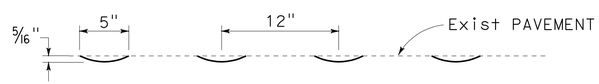


PM 83.13 Lt, TAN OAK PARK Rd

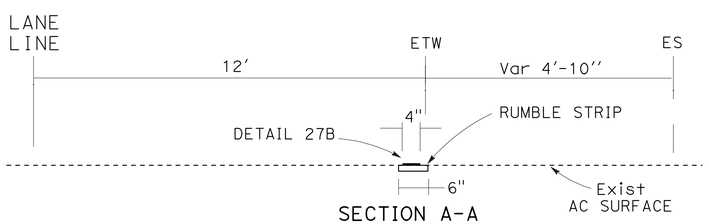


PRIVATE ROAD CONNECTION

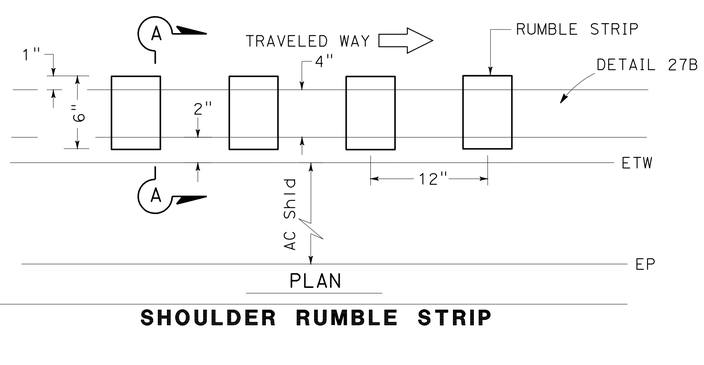
LIMITS OF SURFACING



ELEVATION

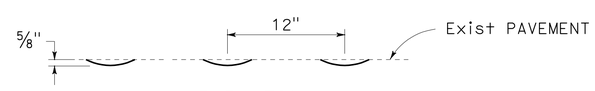


SECTION A-A

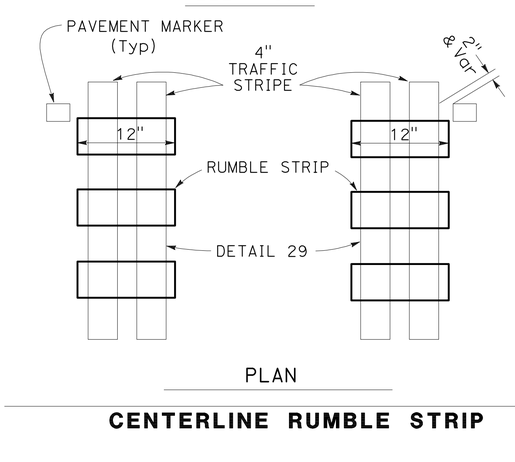


PLAN

SHOULDER RUMBLE STRIP

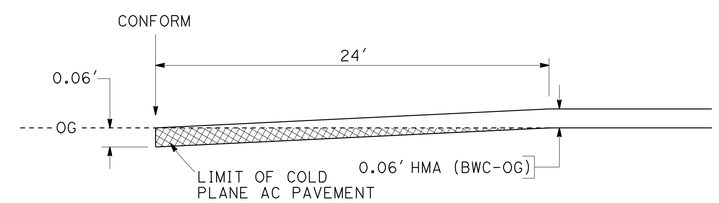


ELEVATION



PLAN

CENTERLINE RUMBLE STRIP



LOCATION		PM
SOUTH CONFORM		81.39
EMPIRE CAMP NB OFFRAMP		82.43
EMPIRE CAMP NB ONRAMP		82.58
CUMMINGS SB ON RAMP		R84.53
CUMMINGS NB OFF RAMP		R84.57
CUMMINGS ROAD SEPARATION	BB	R84.69

COLD PLANE AC PAVEMENT

TYPICAL CROSS SECTION AND CONSTRUCTION DETAILS X-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 => 08-FEB-2012
TIME PLOTTED => 13:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	81.4/R84.7	3	8

Curtis D. Coburn 1/24/12
REGISTERED CIVIL ENGINEER DATE

January 24, 2012
PLANS APPROVAL DATE

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

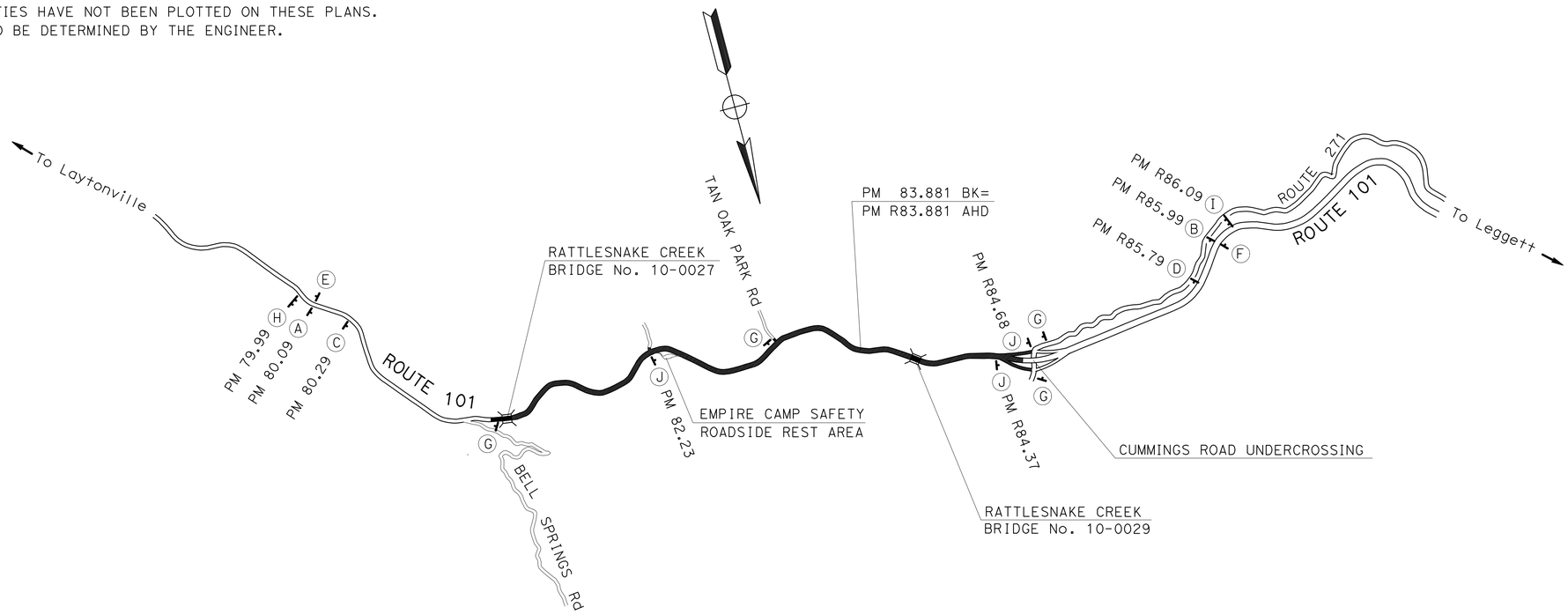
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
A	G20-1	ROAD WORK NEXT 4 MILES	60"x36"	2-4"x6"	1
	C23B(CA)	RESURFACING	54"x12"		
B	G20-1	ROAD WORK NEXT 4 MILES	90"x48"	2-6"x6"	1
	C23B(CA)	RESURFACING	54"x12"		
C	W11-1	BICYCLE SYMBOL	36"x36"	1-4"x6"	1
	W16-1	SHARE THE ROAD	24"x30"		
D	W11-1	BICYCLE SYMBOL	48"x48"	1-6"x6"	1
	W16-1	SHARE THE ROAD	24"x30"		
E	G20-2	END ROAD WORK	36"x18"	1-4"x4"	1
F	G20-2	END ROAD WORK	48"x24"	1-4"x6"	1
G	W20-1	ROAD WORK AHEAD	36"x36"	1-4"x6"	4
H	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108"x42"	2-6"x6"	1
I	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144"x60"	2-6"x8"	1
J	SC6-3(CA)	RAMP CLOSED	48"x48"	1-6"x6"	3

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"x12"
4" CAPS
BLACK/ORANGE

RESURFACING



CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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 => 08-FEB-2012
TIME PLOTTED => 13:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	81.4/R84.7	4	8

Curtis D. Coburn 1/24/12
REGISTERED CIVIL ENGINEER DATE

January 24, 2012
PLANS APPROVAL DATE

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

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ROADWAY

LOCATION (PM) FROM	LOCATION (PM) TO	WIDTH FT	HOT MIX ASPHALT (BONDED WEARING COURSE -OPEN GRADED) TON	ASPHALTIC EMULSION MEMBRANE (BONDED WEARING COURSE) TON	COLD PLANE AC PAVEMENT SQYD	RUMBLE STRIP ℄ STA	RUMBLE STRIP Shld STA
81.39	81.40				160.4		
81.39	81.44	46	64.7	1.5		5.5	5.5
81.44	81.46	52.7	38.2	0.9		2.9	2.9
81.46	82.50	58.7	1638.2	37.3		109.8	109.8
82.42 R+			67.6	1.2	273.4		
82.50	83.88	65	2401.6	54.7		145.5	145.5
82.56 R+			120.2	2.1	145.8		
83.13 L+			57.1	1.4	8.5		
83.88 Bk = R83.88 Ahd							
R83.88	R83.99	65	196.9	4.5		11.9	11.9
R83.99	R84.02	60	43.5	1.0		2.8	2.8
R84.02	R84.69	65	1167.7	26.6		70.7	70.7
R84.61 R+			138.9	3.2	309.9		
R84.64 L+			169.6	3.9	309.9		
R84.68	R84.69				255.2		
		TOTAL	6104.2	138.3	1463.1	349.1	349.1

TRAFFIC MANAGEMENT SYSTEM

LOCATION	REMARKS
PM 82.2	ROADWAY WEATHER INFORMATION SYSTEM

REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION (PM)	L+/R+ MEDIAN	ORIENTATION	TYPE/LEGEND	SQFT	REMARKS
81.46	L+	FSBT	TYPE VI ARROW	42	SOUTHBOUND #2 LANE DROP
81.49	L+	FSBT	TYPE VI ARROW	42	SOUTHBOUND #2 LANE DROP
81.53	L+	FSBT	TYPE VI ARROW	42	SOUTHBOUND #2 LANE DROP
83.13	L+	FEBT	LIMIT LINE	45	TAN OAK PARK Rd
83.13	L+	FEBT	2- STOP LEGENDS	44	TAN OAK PARK Rd
R84.59	R+	FNBT	STOP	22	ON NB OFF RAMP
R84.60	R+	FNBT	AHEAD	31	ON NB OFF RAMP
R84.64	R+	FNBT	TYPE V ARROW	33	ON NB OFF RAMP
R84.67	R+	FNBT	TYPE V ARROW	33	ON NB OFF RAMP
R84.68	R+	FNBT	2- STOP LEGENDS	44	ON NB OFF RAMP
R84.69	R+	FNBT	LIMIT LINE	60	ON NB OFF RAMP
R84.64	L+	FSBT	TYPE V ARROW	33	ON SB OFF RAMP
R84.67	L+	FSBT	TYPE V ARROW	33	ON SB OFF RAMP
			TOTAL	504	

TRAFFIC STRIPE AND PAVEMENT MARKER QUANTITIES

LOCATION (PM) FROM	LOCATION (PM) TO	DETAIL NUMBER	THERMOPLASTIC TRAFFIC STRIPE DETAIL LENGTH LF	8" WHITE	4" YELLOW	4" WHITE	REMOVE	4" WHITE (BROKEN 36'-12')	4" WHITE (BROKEN 17'-7')	4" WHITE (BROKEN 12'-3')	PAVEMENT MARKER (RETROREFLECTIVE-RECESSED) TYPE C EA	TYPE D	TYPE G	TYPE H
81.39 L+	83.12 L+	27B	9154			9154								
81.46 L+	84.67 L+	12	16995					16995					355	
81.39	R84.67	29	17318		69274							1446		
83.13 L+	83.19 L+	27C	317							317				
83.13 L+	R84.51 L+	27B	7286			7286								
81.39 R+	82.00 R+	27B	3215			3215								
82.00 R+	EDGELINE MARKING	38A	20	20			40							
82.00 R+	82.41 R+	27B	2133			2133								
82.36 R+	82.54 R+ (NB OFF)	27B	689			689								
81.41 R+	R84.67 R+	12	17257					17257					360	
81.79 R+	81.82 R+	14A	144					144			4			
82.31 R+	82.34 R+	14A	144					144			4			
82.42 R+	82.45 R+	36	131	262			524						12	
82.63 R+	82.64 R+	9	98						98				4	
82.51 R+	82.54 R+	27B	164			164								
82.54 R+	82.62 R+	36A	426	426		426	853						18	
R84.02 R+	R84.67 R+	12	3478					3478					73	
82.53 R+	82.98 R+	27B	2395			2395								
82.99 R+	EDGELINE MARKING	38A	20	20			40							
83.00 R+	R83.99 R+	27B	5250			5250								
83.40 R+	83.43 R+	14A	144					144			4			
R83.92 R+	R83.95 R+	14A	144					144			4			
R84.00 R+	EDGELINE MARKING	38A	20	20			40							
R84.00 R+	84.42 R+	27B	2198			2198								
R84.42 R+	84.69 R+ (NB OFF)	27B	1410			1410								
R84.44 R+	R84.47 R+	14A	144					144			4			
R84.53 R+	R84.57 R+	36	262	524			1048						22	
R84.57 R+	R84.69 R+ (NB OFF)	25A	590		590									25
R84.42 R+	R84.67 R+	27B	1345			1345								
R84.49 L+	R84.51 L+	9	98						98				4	
R84.51 L+	R84.54 L+	36A	197	197		197	394						8	
R84.54 L+	R84.69 L+ (SB ON)	25A	787		787									33
R84.46 L+	R84.69 L+ (SB ON)	27B	1214			1214								
R84.51 L+	R84.67 L+	27B	886			886								
		SUBTOTAL			70651	37962					20	1446	856	58
		TOTAL		1469	108613		2939	38450	196	317	2380			

THERMOPLASTIC PAVEMENT MARKING

LOCATION (PM)	L+/R+ MEDIAN	ORIENTATION	TYPE/LEGEND	SQFT	REMARKS
81.46	L+	FSBT	TYPE VI ARROW	42	SOUTHBOUND #2 LANE DROP
81.49	L+	FSBT	TYPE VI ARROW	42	SOUTHBOUND #2 LANE DROP
81.53	L+	FSBT	TYPE VI ARROW	42	SOUTHBOUND #2 LANE DROP
83.13	L+	FEBT	LIMIT LINE	45	TAN OAK PARK Rd
83.13	L+	FEBT	2- STOP LEGENDS	44	TAN OAK PARK Rd
R84.59	R+	FNBT	STOP	22	ON NB OFF RAMP
R84.60	R+	FNBT	AHEAD	31	ON NB OFF RAMP
R84.64	R+	FNBT	TYPE V ARROW	33	ON NB OFF RAMP
R84.67	R+	FNBT	TYPE V ARROW	33	ON NB OFF RAMP
R84.68	R+	FNBT	2- STOP LEGENDS	44	ON NB OFF RAMP
R84.69	R+	FNBT	LIMIT LINE	60	ON NB OFF RAMP
R84.64	L+	FSBT	TYPE V ARROW	33	ON SB OFF RAMP
R84.67	L+	FSBT	TYPE V ARROW	33	ON SB OFF RAMP
			TOTAL	504	

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 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 => 08-FEB-2012 | TIME PLOTTED => 13:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	81.4/R84.7	5	8

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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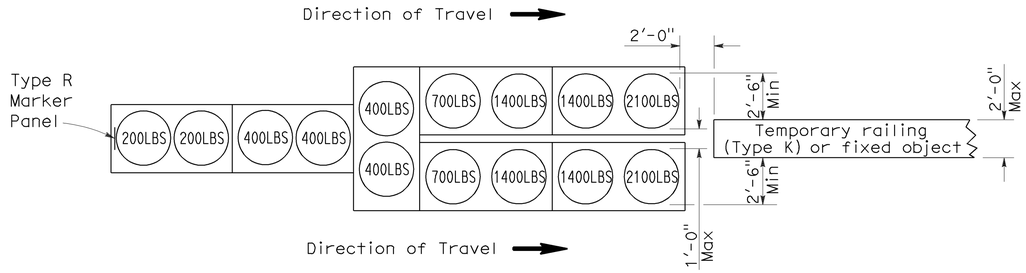
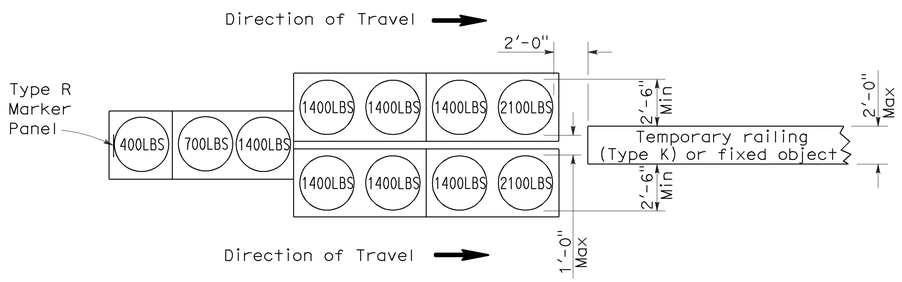
To accompany plans dated January 24, 2012



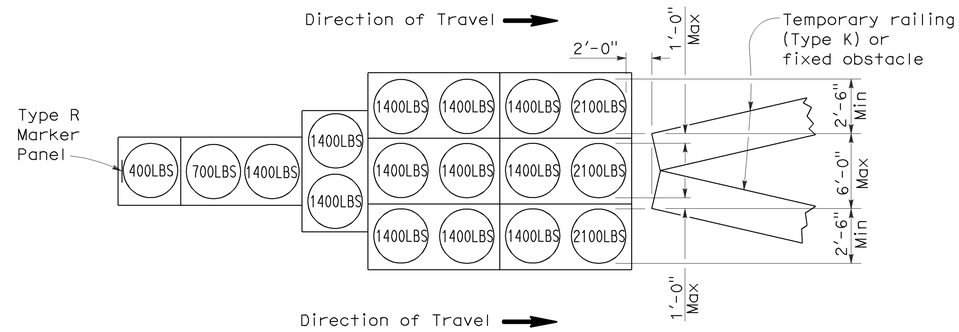
ARRAY 'TU14'

Approach speed 45 mph or more



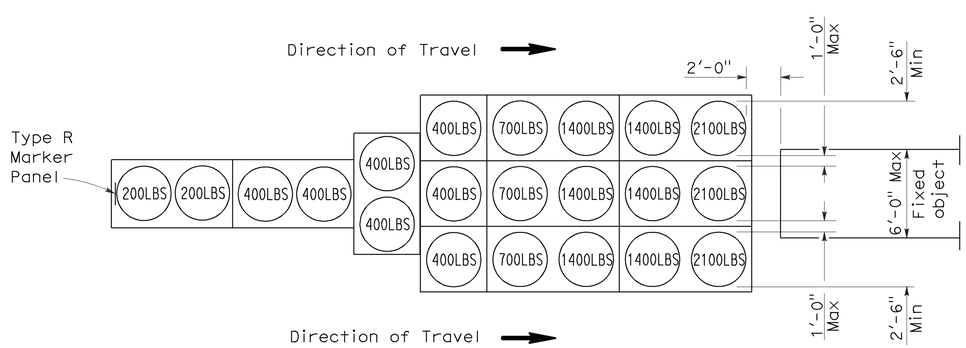
ARRAY 'TU11'

Approach speed less than 45 mph



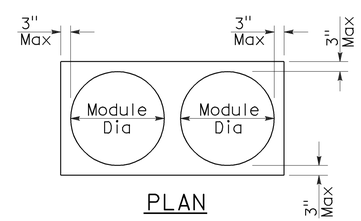
ARRAY 'TU17'

Approach speed less than 45 mph

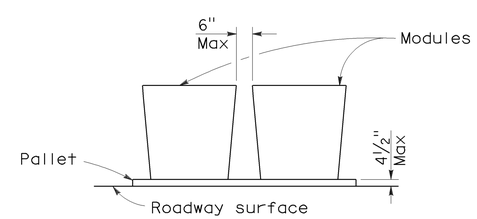


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	81.4/R84.7	6	8

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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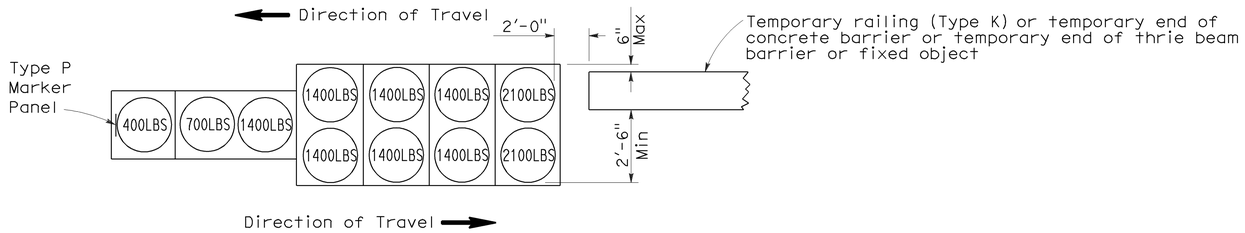
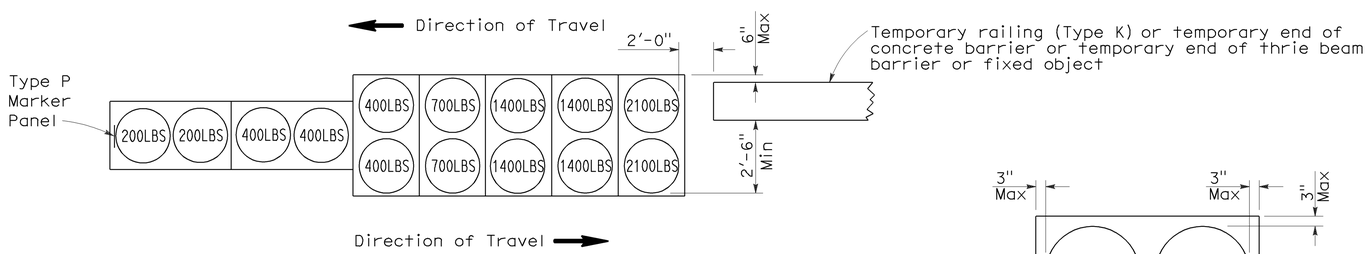
To accompany plans dated January 24, 2012



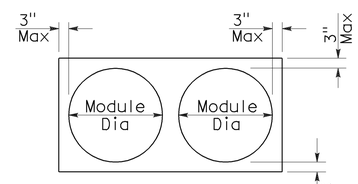
ARRAY 'TB11'

Approach speed less than 45 mph

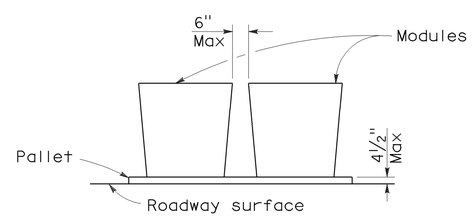


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	81.4/R84.7	7	8

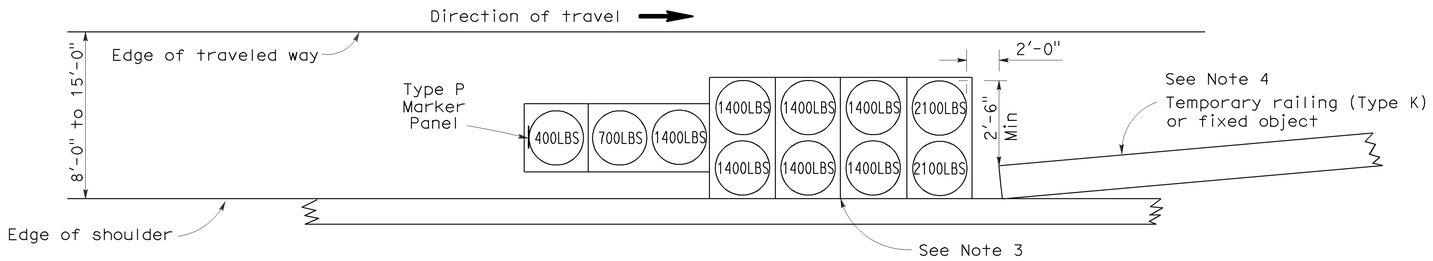
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

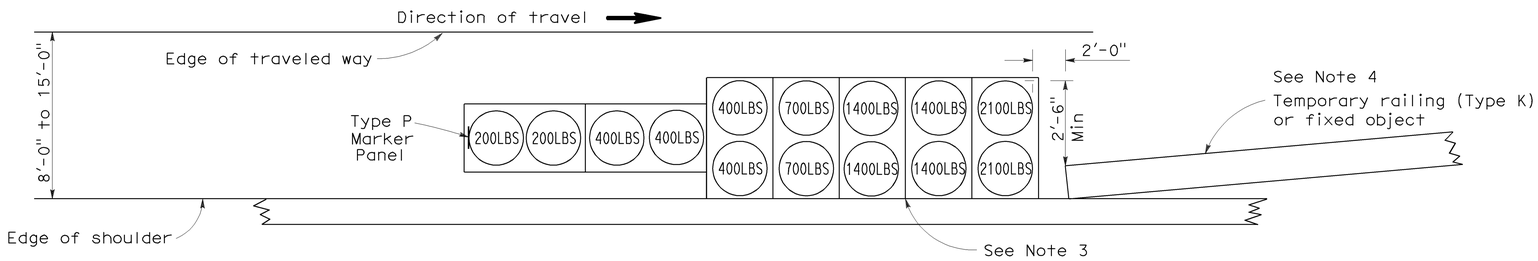
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated January 24, 2012



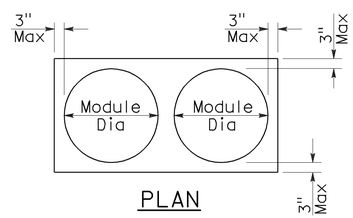
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

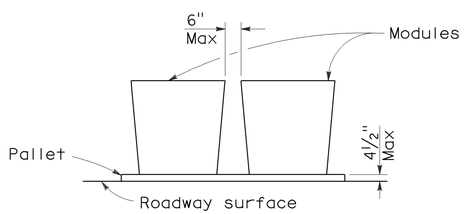


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	81.4/R84.7	8	8

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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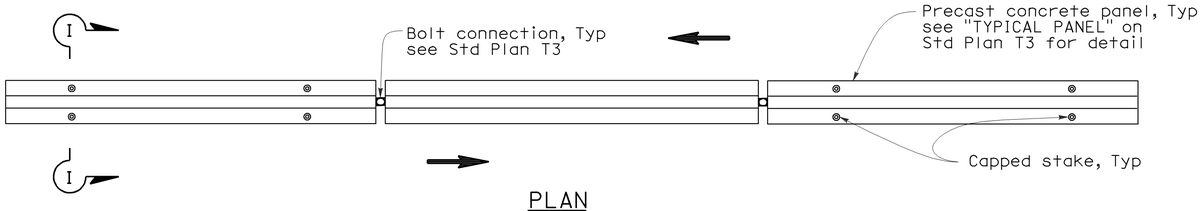
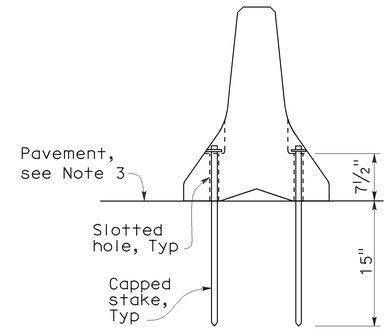
To accompany plans dated January 24, 2012



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

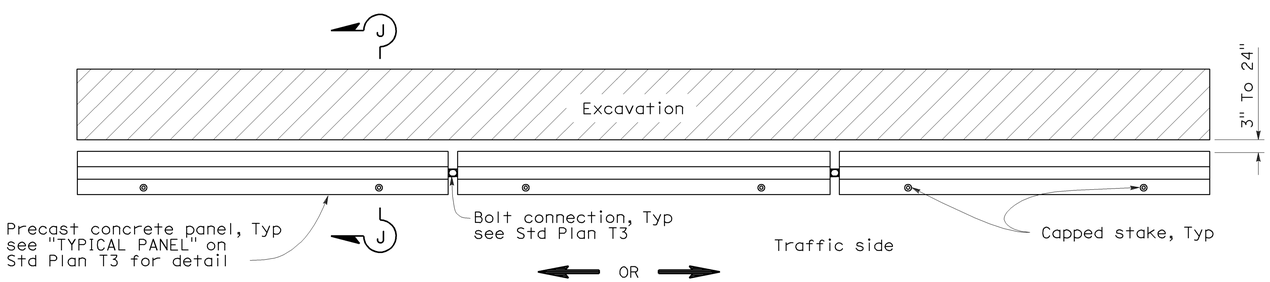
See Note 1



SECTION I-I

NOTES:

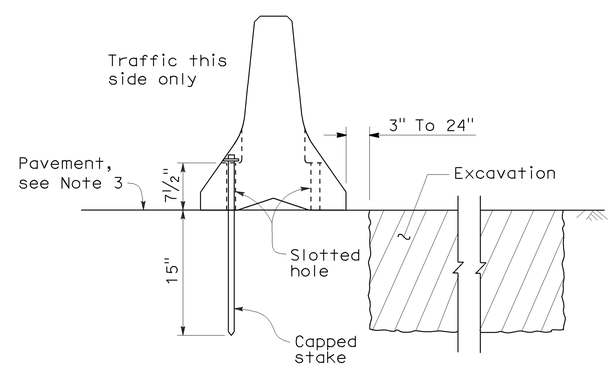
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by ⟹.



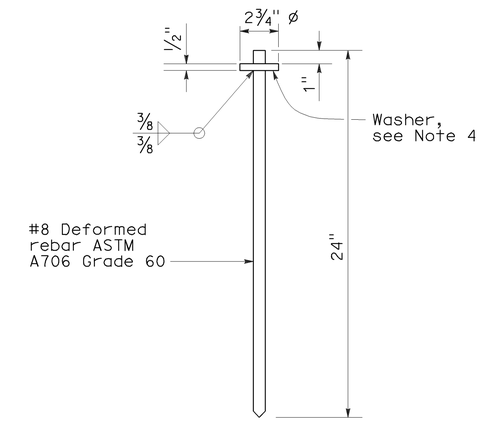
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A