Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	1	11

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-P049(149)E

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

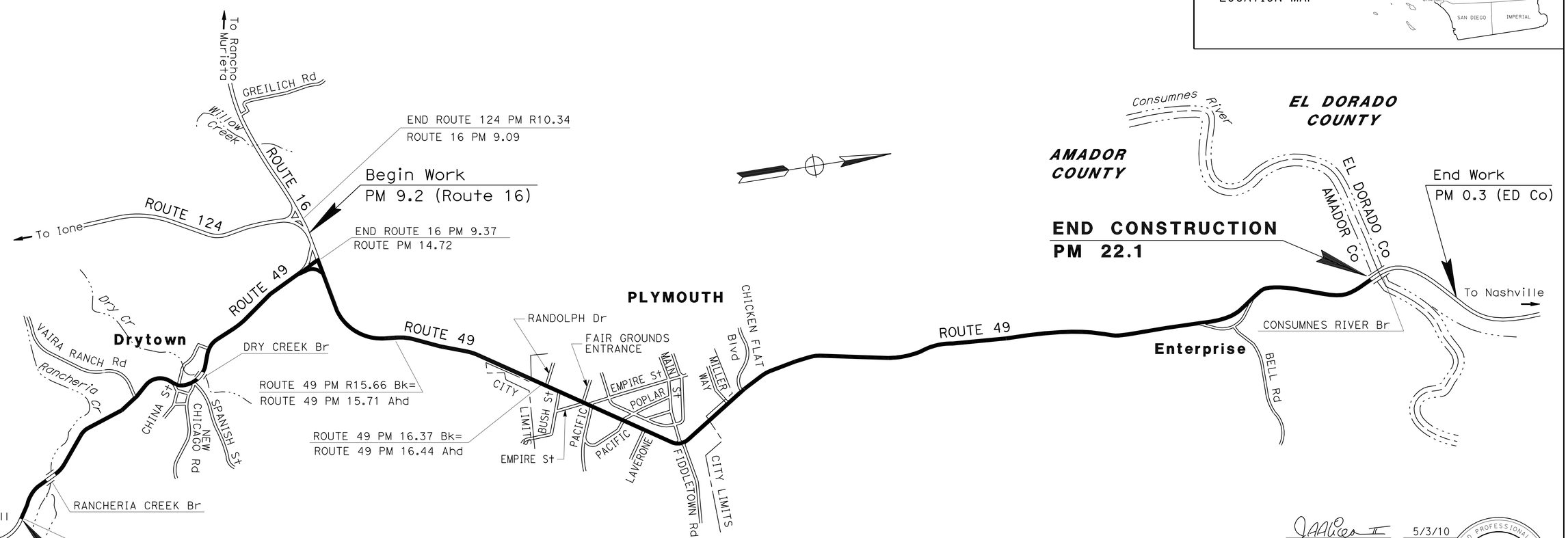
IN AMADOR COUNTY
IN AND NEAR PLYMOUTH
FROM 0.2 MILE SOUTH OF RANCHERIA CREEK BRIDGE
TO EL DORADO COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6-7	SUMMARY OF QUANTITIES
8-11	REVISED STANDARD PLANS

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



NO SCALE

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

PROJECT MANAGER ALVIN MANGINDIN

DESIGN ENGINEER ALVIN MANGINDIN

5/3/10
PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

September 20, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSE A. ALICEA II — No. 64817 — Exp. 6/30/11 — 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.

CONTRACT No.	10-0U8104
PROJECT ID	1000000749

LAST REVISION 00-00-00 — DATE PLOTTED => 29-NOV-2010 — TIME PLOTTED => 13:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	2	11

REGISTERED CIVIL ENGINEER 5/3/10 DATE

9/20/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

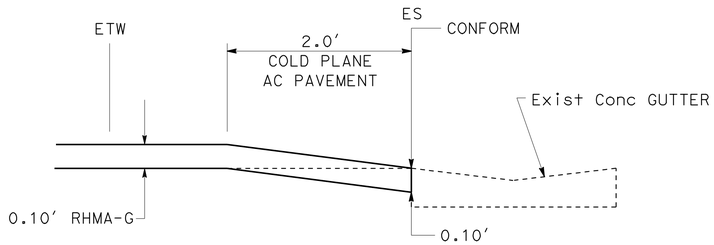
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

NOTES:

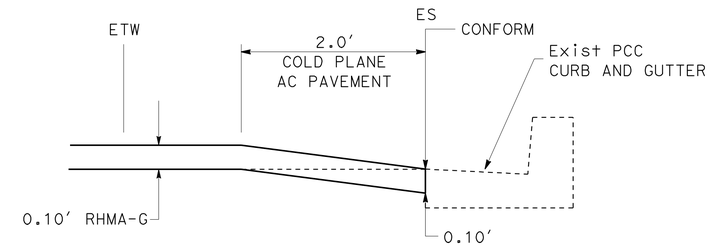
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
5. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.

ABBREVIATION

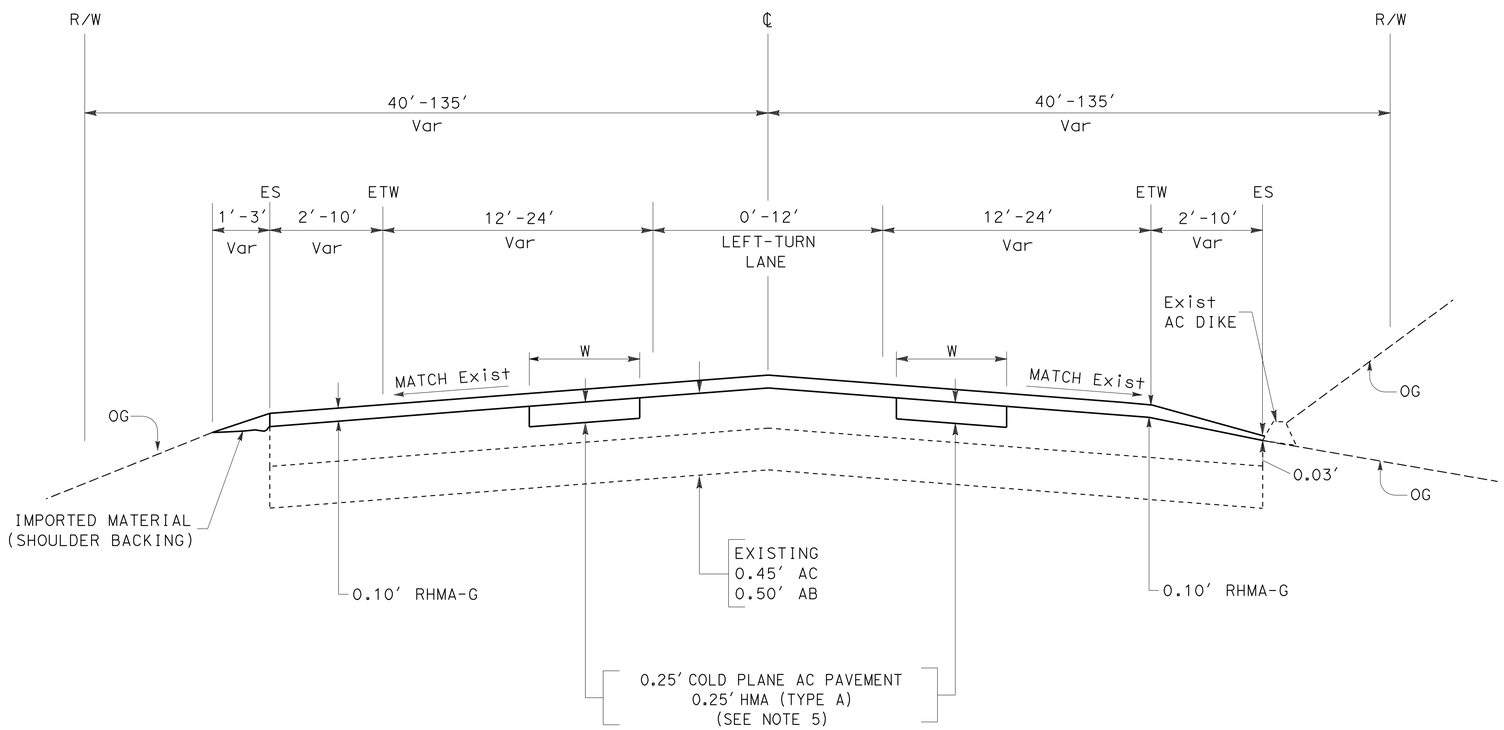
RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



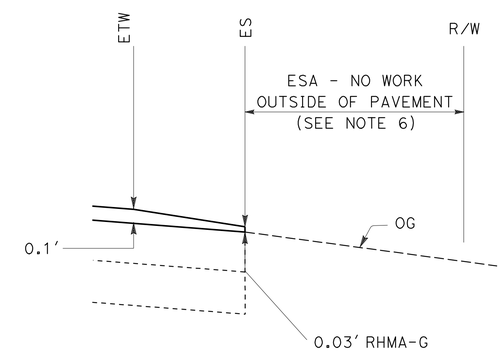
PM 16.0
CONFORM TAPER AT CONCRETE GUTTER



PM 15.8/16.0
CONFORM TAPER AT CURB & GUTTER



PM 11.9/22.1
ROUTE 49



PM 18.00/18.02 NB
PM 19.02/19.05 BOTH
PM 19.27/19.30 NB
PM 21.00/21.40 NB
PM 21.08/21.15 SB
PM 21.15/21.15 BOTH
PM 21.65/21.70 SB
PM 21.98/22.09 NB
PM 22.08/22.09 BOTH

ESA LOCATIONS

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY	DATE REVISED
JAA	5/4/10

THOA HUYNH — JOSE A ALICEA
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **MAINTENANCE**

LAST REVISION 00-00-00 | DATE PLOTTED => 29-NOV-2010 | TIME PLOTTED => 13:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	3	11

REGISTERED CIVIL ENGINEER 5/3/10 DATE

9/20/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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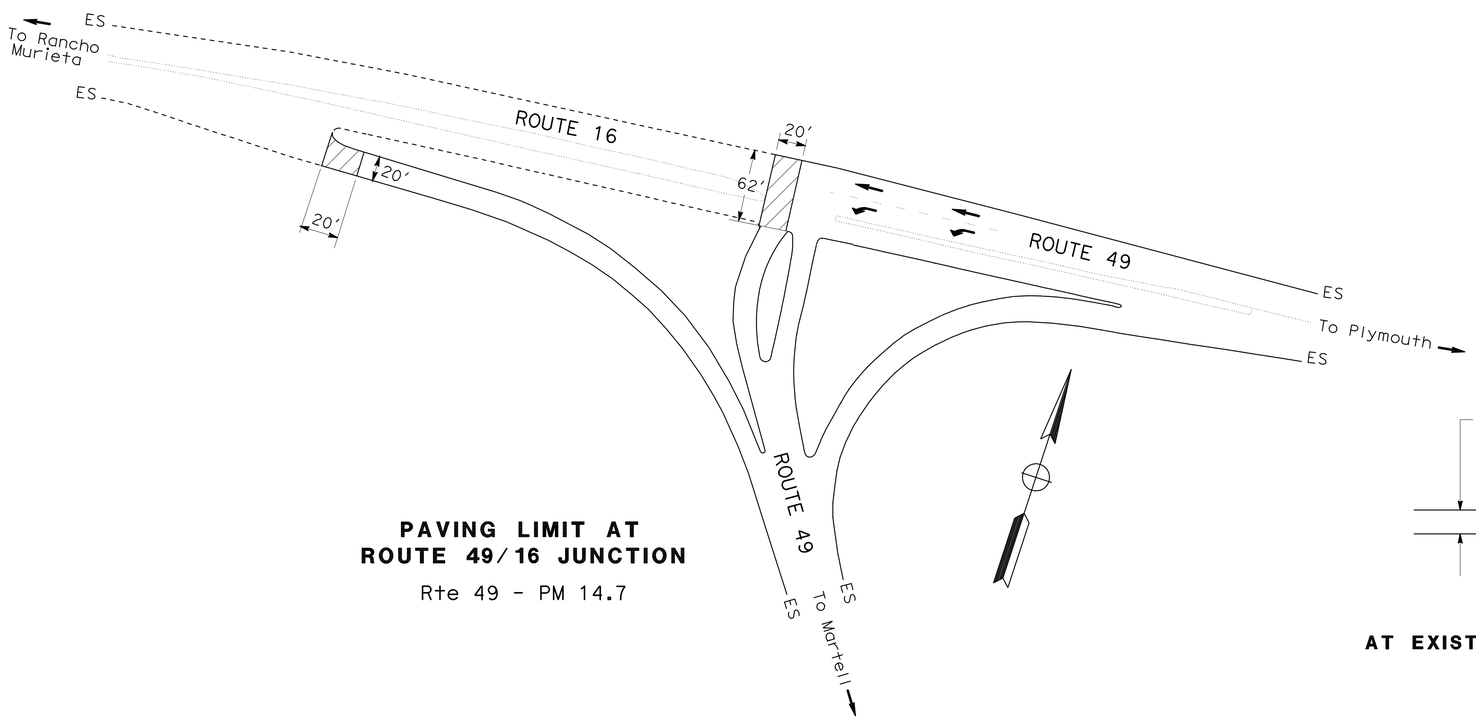
ABBREVIATION

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

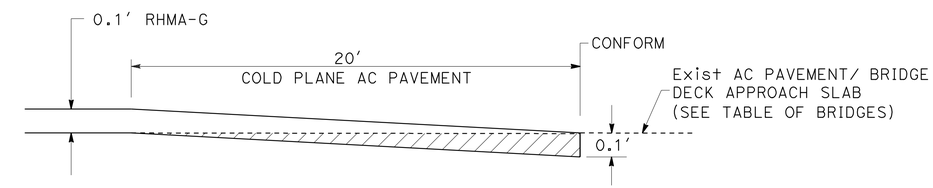
LEGEND

- RHMA-G
- COLD PLANE AC PAVEMENT RHMA-G

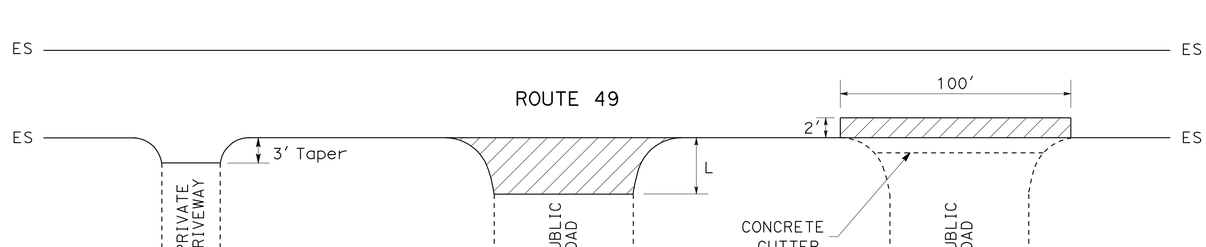


PAVING LIMIT AT ROUTE 49/16 JUNCTION

Rte 49 - PM 14.7

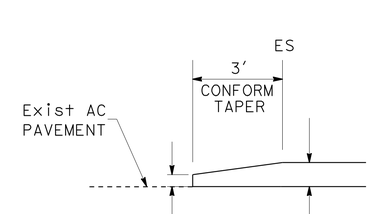


LONGITUDINAL CONFORM TAPER AT EXISTING AC PAVEMENT/BRIDGE DECK APPROACH SLAB

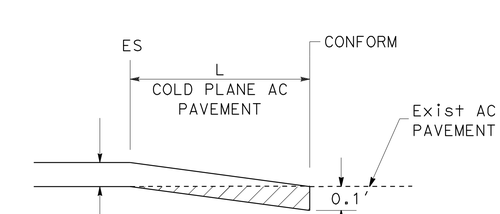


PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS

SEE PUBLIC AND PRIVATE ROAD INTERSECTIONS TABLES



PRIVATE DRIVEWAY CONFORM TAPER



PUBLIC ROAD CONFORM TAPER

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: THOA HUYNH
CHECKED BY: JOSE A ALICEA II
REVISED BY: TH
DATE REVISED: 5/4/10

LAST REVISION 00-00-00
DATE PLOTTED => 29-NOV-2010
TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	4	11

REGISTERED CIVIL ENGINEER 5/3/10 DATE

9/20/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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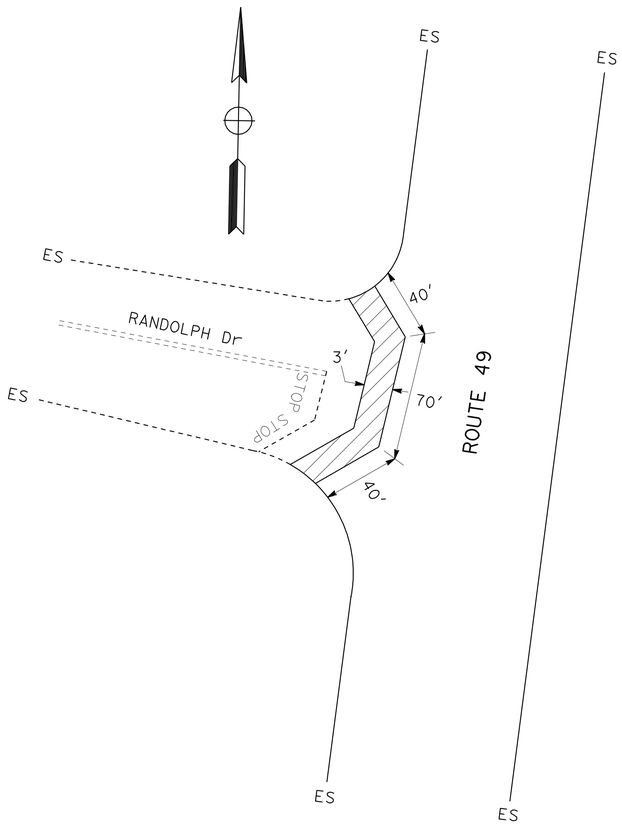

PAVING LIMIT AT
ROUTE 49/RANDOLPH Dr INTERSECTION

Rte 49 - PM 16.0

TABLE OF BRIDGES

PM	BRIDGE NAME	BRIDGE No.
12.1	RANCHERIA CREEK BRIDGE	26-0017
13.6	DRY CREEK BRIDGE	26-0018
22.1	COSUMNES RIVER BRIDGE	26-0033

PUBLIC ROAD INTERSECTIONS

PM	SIDE	ROAD NAME	LENGTH	WIDTH
13.0	L+	VAIRA RANCH Rd	28'	37'
13.4	R+	CHINA S+	20'	30'
13.5	L+	NEW CHICAGO Rd	20'	30'
13.5	R+	NEW CHICAGO Rd	25'	29'
14.7	L+	WEST JUNCTION R+e 16	20'	20'
14.7	L+	WEST JUNCTION R+e 16	20'	60'
16.5	R+	BUSH S+	25'	35'
16.6	R+	EMPIRE S+	20'	35'
16.6	L+	EMPIRE S+	43'	33'
16.7	L+	EMPIRE S+ (COUNTY FAIR)	30'	40'
16.7	R+	PACIFIC S+	17'	48'
16.9	R+	PACIFIC S+	15'	80'
16.9	L+	POPLAR Rd	11'	170'
17.0	R+	LAVERONE S+	12'	55'
17.2	L+	MAIN S+	20'	110'
17.2	R+	FIDDLETOWN Rd	8'	70'
17.5	L+	MILLER WAY	17'	63'

PRIVATE DRIVEWAY INTERSECTIONS

PM	SIDE	PM	SIDE	PM	SIDE
12.8	L+	15.7	L+	17.6	L+
13.0	R+	15.8	L+	18.1	L+
13.3	L+	15.9	R+	19.0	L+
13.4	L+	16.0	BOTH	19.4	L+
13.5	BOTH	16.1	R+	19.8	L+
13.6	BOTH	16.2	L+	20.2	L+
13.7	R+	16.3	R+	20.3	R+
13.8	L+	16.7	R+	20.5	R+
14.0	R+	16.8	R+	20.7	R+
14.6	R+	17.0	R+	21.0	L+
14.8	L+	17.1	R+	21.3	R+
14.9	L+	17.2	BOTH	21.5	R+
15.1	BOTH	17.3	R+	21.6	L+
15.4	R+	17.4	R+	21.8	L+
15.5	R+	17.5	R+	21.9	R+

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: THOA HUYNH
CHECKED BY: JOSE A ALICEA II
REVISED BY: TH
DATE REVISED: 5/4/10

LAST REVISION 00-00-00
DATE PLOTTED => 29-NOV-2010
TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	5	11

REGISTERED CIVIL ENGINEER 5/3/10 DATE

9/20/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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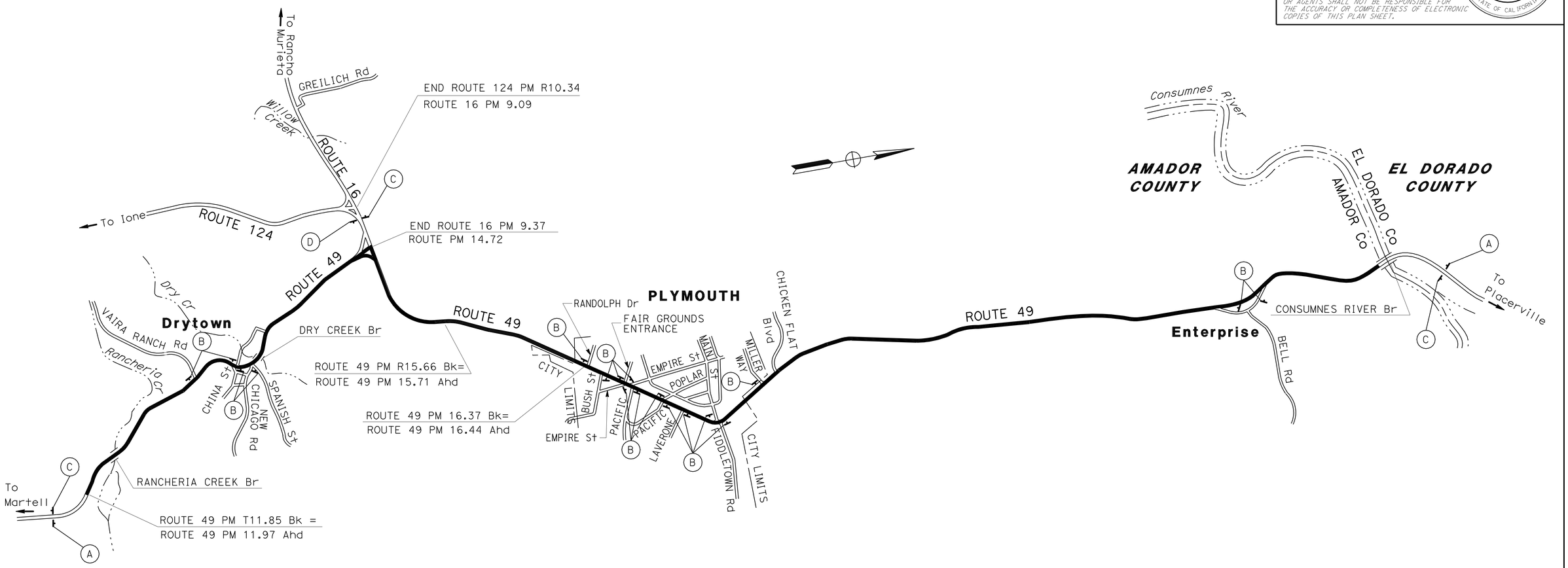

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	G20-1	60" x 36"	1 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 10 MILES
B	W20-1	30" x 30"	1 - 4" x 4"	18	ROAD WORK AHEAD
C	G20-2	36" x 18"	1 - 4" x 4"	3	END ROAD WORK
D	W20-1	36" x 36"	1 - 4" x 4"	1	ROAD WORK AHEAD

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY	TH
DATE REVISED	5/4/10
THOA HUYNH	
JOSE A ALICEA II	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
ALVIN MANGINDIN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 29-NOV-2010 | TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	6	11

REGISTERED CIVIL ENGINEER 5/3/10 DATE

9/20/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
3. TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS ARE APPROXIMATE.

ABBREVIATION

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

COLD PLANE AC PAVEMENT, HMA (TYPE A) (TRAVEL LANES)

	LOCATION PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt SQYD	HMA (TYPE A) TON
NORTHBOUND	13.90	116′	4′	52	9
	13.95	55′	4′	25	5
	16.05	24′	4′	11	2
	17.80	49′	4′	22	4
	17.85	111′	4′	50	9
	17.90	124′	4′	56	10
	18.30	50′	4′	23	4
	18.35	113′	4′	51	9
	18.50	295′	4′	132	23
	18.90	55′	4′	25	5
	19.10	115′	4′	52	9
	19.50	57′	4′	26	5
	19.60	66′	4′	30	5
	19.70	68′	4′	31	6
	20.60	124′	4′	56	10
	20.70	54′	4′	24	5
	21.10	103′	4′	46	8
	21.15	60′	4′	27	5
	21.00	456′	4′	203	35
	21.10	133′	4′	60	10
	21.15	31′	4′	14	3
	21.20	180′	4′	80	14
	21.25	95′	4′	43	8
	21.30	79′	4′	36	6
	21.40	32′	8′	29	5
	21.40	70′	4′	32	6
	21.40	66′	4′	30	5
	21.45	96′	4′	43	8
	21.50	87′	10′	97	17
	21.60	155′	8′	138	24
	21.60	36′	4′	16	3
	21.70	400′	4′	178	30
	21.90	104′	4′	47	8
	21.95	155′	8′	138	24
	22.00	72′	10′	80	14
			SUBTOTAL 1	2003	353

	LOCATION PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt SQYD	HMA (TYPE A) TON
SOUTHBOUND	12.00	146′	4′	65	11
	15.98	148′	4′	66	12
	18.05	114′	4′	51	9
	18.80	180′	4′	80	14
	18.95	65′	4′	29	5
	18.98	33′	4′	15	3
	19.01	16′	4′	8	2
	19.20	113′	4′	51	9
	19.20	25′	4′	12	2
	21.00	34′	4′	16	3
	21.00	110′	8′	98	17
	21.00	42′	4′	19	4
	21.00	34′	4′	16	3
	21.00	99′	4′	44	8
	21.00	75′	4′	34	6
	21.30	71′	4′	32	6
	21.45	70′	4′	32	6
	21.45	161′	10′	179	31
	21.60	48′	4′	22	4
	21.80	390′	10′	434	74
	21.75	48′	4′	22	4
	22.00	117′	10′	130	22
	22.00	532′	10′	592	100
	22.05	20′	10′	23	4
			SUBTOTAL 2	2070	359
			SUBTOTAL 1	2003	353
			TOTAL	4073*	712*

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

PM	LOCATION	TYPE	DESCRIPTION
14.7	Rte 16 JUNCTION - Rte 49	SIGNAL	SIGNAL CONTROL
22.1	EL DORADO COUNTY LINE	TMS	TRAFFIC MONITORING STATION

SUMMARY OF QUANTITIES
Q-1

REVISED BY	DATE REVISED
TH	5/5/10

THOA HUYNH — JOSE A ALICEA II

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 29-NOV-2010 | TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	49	11.9/22.1	7	11

REGISTERED CIVIL ENGINEER 5/3/10 DATE

9/20/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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COLD PLANE AC PAVEMENT, RHMA-G (CONFORM TAPERS)

LOCATION			LENGTH (N)	WIDTH (N)	DEPTH (N)	COLD PLANE AC PAVEMENT	RHMA (GAP GRADED)
PM	SIDE	DESCRIPTION				SQYD	TON
11.9		Rte 49 (BEGIN CONSTRUCTION)	20′	32′	0.1′	72	5
12.1		RANCHERIA CREEK BRIDGE	20′	40′	0.1′	89	6
12.1		RANCHERIA CREEK BRIDGE	20′	40′	0.1′	89	6
13.0	Lt	VAIRA RANCH Rd	28′	37′	0.1′	116	8
13.4	Rt	CHINA St	20′	30′	0.1′	67	5
13.5	Lt	NEW CHICAGO Rd	20′	30′	0.1′	67	5
13.5	Rt	NEW CHICAGO Rd	25′	29′	0.1′	81	6
13.6		DRY CREEK BRIDGE	20′	20′	0.1′	45	3
13.6		DRY CREEK BRIDGE	20′	22′	0.1′	49	4
14.7	Lt	WEST JUNCTION 16	20′	20′	0.1′	45	3
14.7	Lt	WEST JUNCTION 16	20′	60′	0.1′	134	9
14.7	Lt	WEST Jct 16 (CONCRETE GUTTER)	2000′	2′	0.1′	445	30
15.9	Rt	VILLAGE Dr	5′	50′	0.1′	28	2
16.0	Rt	VILLAGE Dr	8′	57′	0.1′	51	4
16.0	Lt	VILLAGE Dr (CURB & GUTTER)	3′	150′	0.1′	50	4
15.8	Rt	RANDOLPH Dr	1160′	2′	0.1′	258	18
15.9	Lt	RANDOLPH Dr (CURB & GUTTER)	370′	2′	0.1′	83	6
16.0	Rt	VILLAGE Dr (CONCRETE GUTTER)	100′	2′	0.1′	23	2
16.5	Rt	BUSH St	25′	35′	0.1′	98	7
16.6	Rt	EMPIRE St	20′	35′	0.1′	78	6
16.6	Lt	EMPIRE St	43′	33′	0.1′	158	11
16.7	Lt	EMPIRE St (COUNTY FAIR)	30′	40′	0.1′	134	9
16.7	Rt	PACIFIC St	17′	48′	0.1′	91	7
16.9	Rt	PACIFIC St	15′	80′	0.1′	134	9
16.9	Lt	POPLAR Rd	11′	170′	0.1′	208	14
17.0	Rt	LAVERONE St	12′	55′	0.1′	74	5
17.2	Lt	MAIN St	20′	110′	0.1′	245	17
17.2	Rt	FIDDLETOWN Rd	8′	70′	0.1′	63	5
17.5	Lt	MILLER WAY	17′	63′	0.1′	119	8
22.1		Rte 49 (END CONSTRUCTION)	20′	28′	0.1′	63	5
					TOTAL	3257*	229*

ROADWAY ITEMS

LOCATION	RHMA (GAP GRADED)	COLD PLANE AC PAVEMENT	HMA (TYPE A)	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)
	TON	SQYD	TON	TON	TON
11.9/22.1 (TRAVEL LANES)	11,700	4073	712	79	872
CONFORM TAPERS	229	3257		4	
TOTAL	11,929	7330	712	83	872

PAVEMENT DELINEATION ITEMS

LOCATION	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING									
		LIMIT LINE	STOP	SIGNAL	AHEAD	PED	XING	TYPE I 18′-0" ARROW	TYPE III (L) ARROW	TYPE V ARROW	TYPE VI ARROW
	SQFT	SQFT									
PM 11.9/22.1	1429	866	220	64	62	72	84	50	420	165	252
TOTAL	1429	2255									

PAVEMENT DELINEATION ITEMS

LOCATION	REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)													REMOVE PAVEMENT MARKER (N)	PAVEMENT MARKER (RETROREFLECTIVE)										
	8" WHITE	4" WHITE				8" WHITE	4" YELLOW									TYPE										
																D					H			G		
	DETAIL 38	DETAIL 9	DETAIL 12	DETAIL 27B	DETAIL 27C	DETAIL 38	DETAIL 6	DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 25A	DETAIL 27	DETAIL 29	DETAIL 32		Det 6	Det 19	Det 22	Det 29	Det 32	Det 19	Det 25A	Det 27	Det 9	Det 12	Det 38
	LF	LF													EA	EA										
PM 11.9/22.1	2408	192	6408	105,848	2430	1204	6040	7942	312	81,825	1857	1456	1690	1900	4196	131	91	3420	36	51	173	80	17	5	136	56
TOTAL	2408	219,104														4196										

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A ALICEA II
CHECKED BY:
REVISED BY: THOA HUYNH
DATE REVISED: 5/4/10 TH

LAST REVISION 00-00-00
DATE PLOTTED => 29-NOV-2010
TIME PLOTTED => 13:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Ama	49	11.9/22.1	8	11

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald E. Howe
No. C46402
Exp. 3-31-09
CIVIL
STATE OF CALIFORNIA

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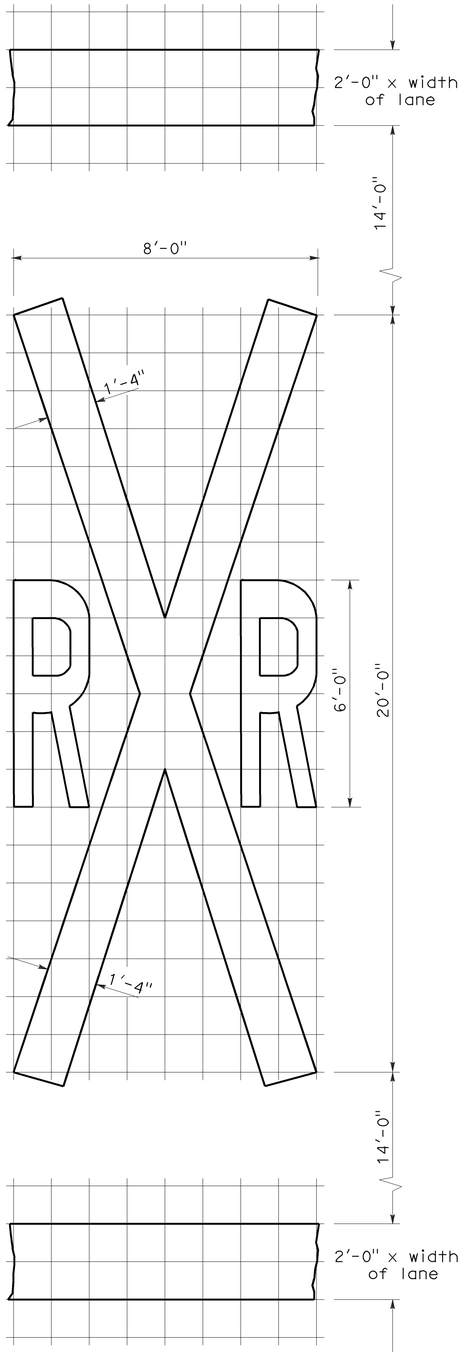
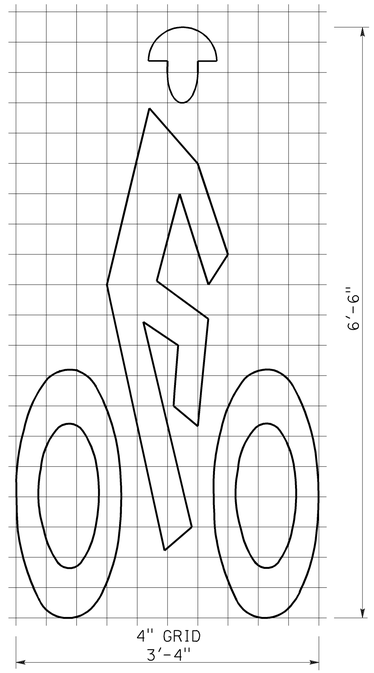
To accompany plans dated 9/20/10



1'-0" GRID
A=70 sq ft ✳

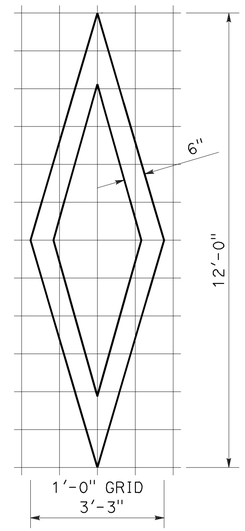
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



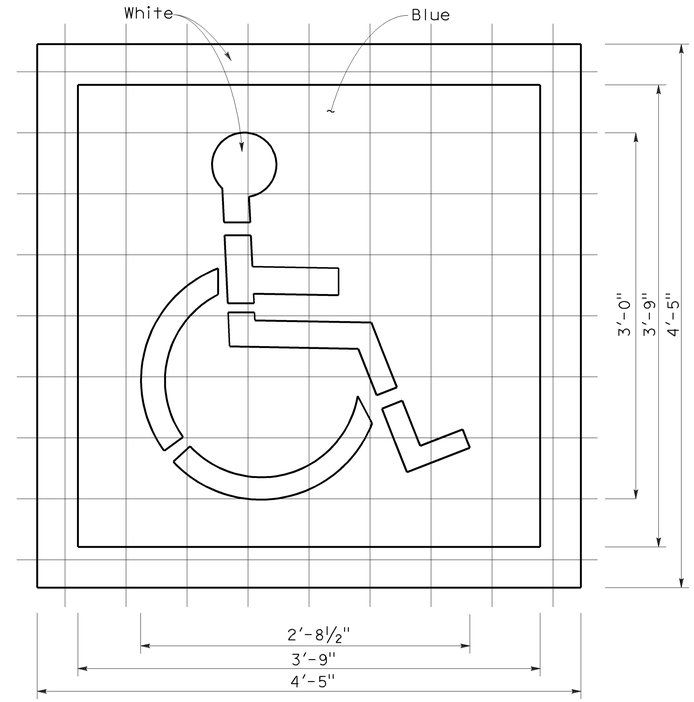
A=7 sq ft

BIKE LANE SYMBOL



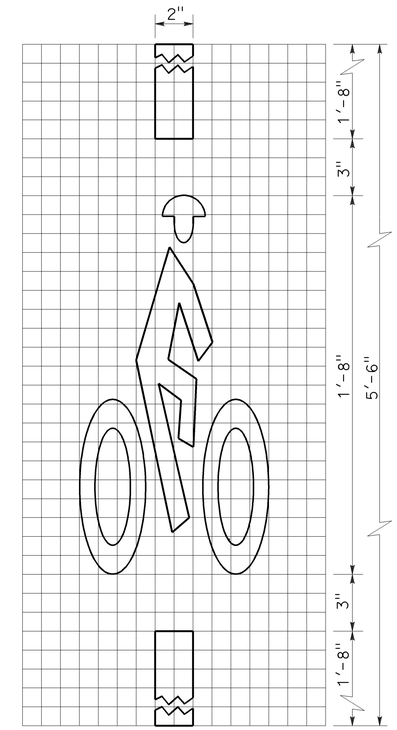
A=11 sq ft

DIAMOND SYMBOL



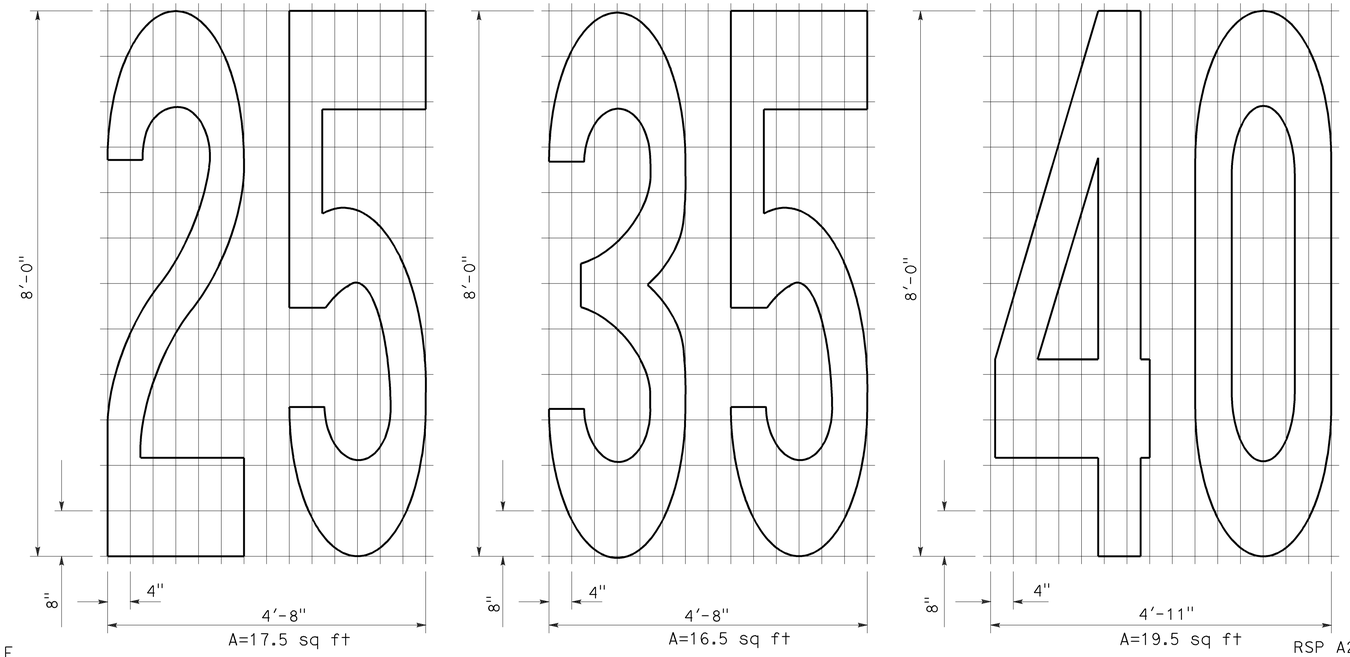
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



1" GRID
10"
A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL



A=17.5 sq ft
A=16.5 sq ft
A=19.5 sq ft

NUMERALS

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Ama	49	11.9/22.1	9	11

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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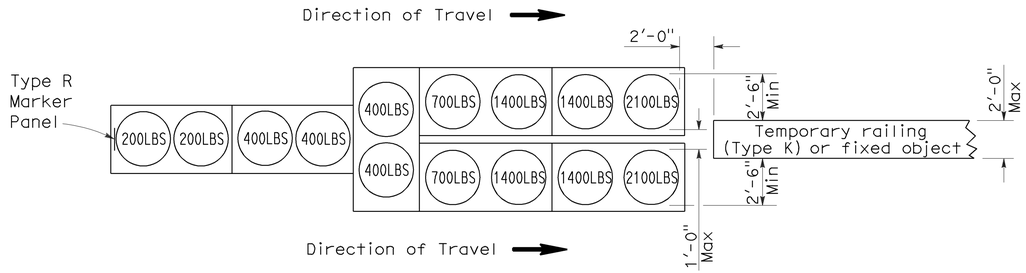
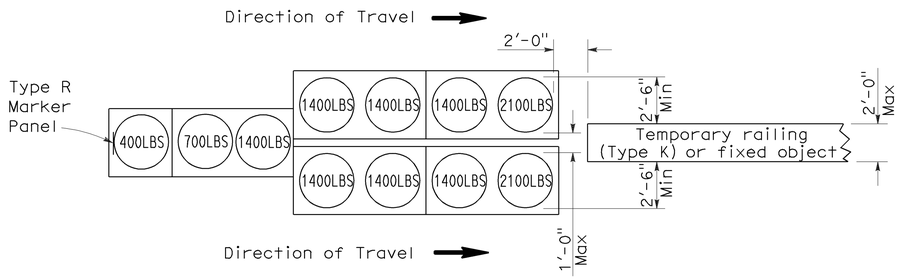
To accompany plans dated 9/20/10



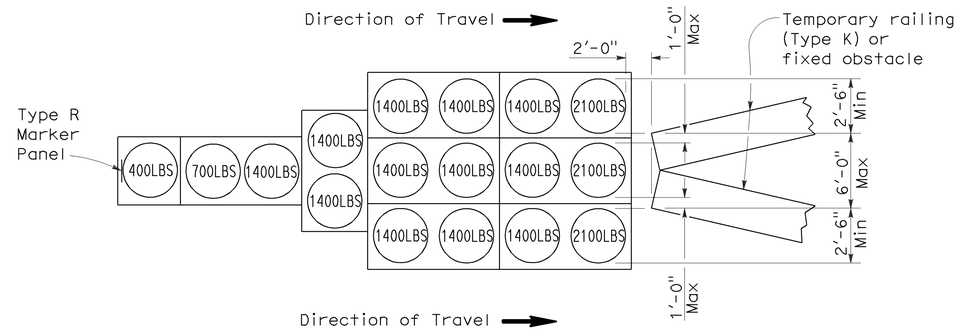
ARRAY 'TU14'

Approach speed 45 mph or more



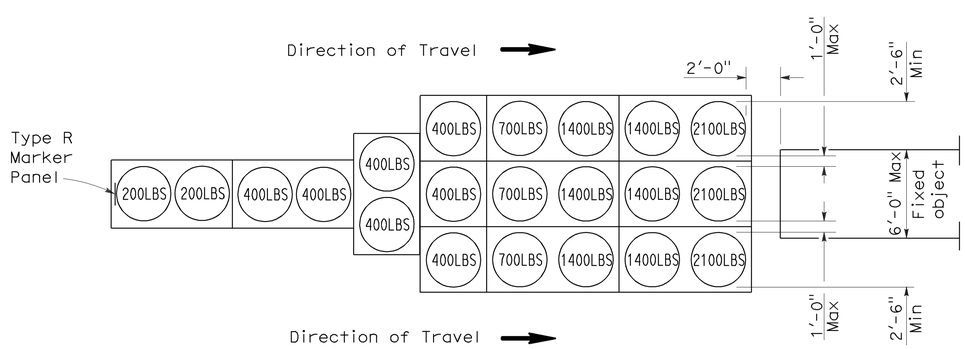
ARRAY 'TU11'

Approach speed less than 45 mph



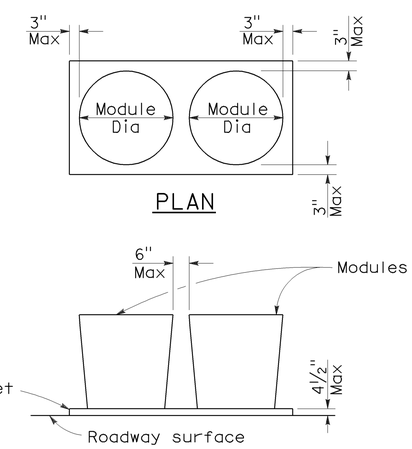
ARRAY 'TU17'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



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
10	Ama	49	11.9/22.1	10	11

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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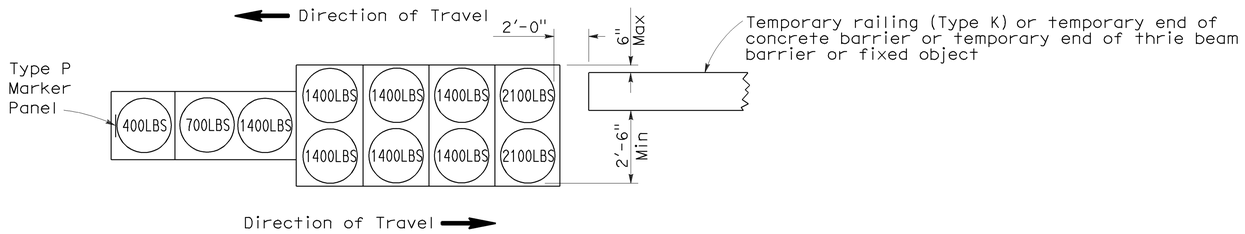
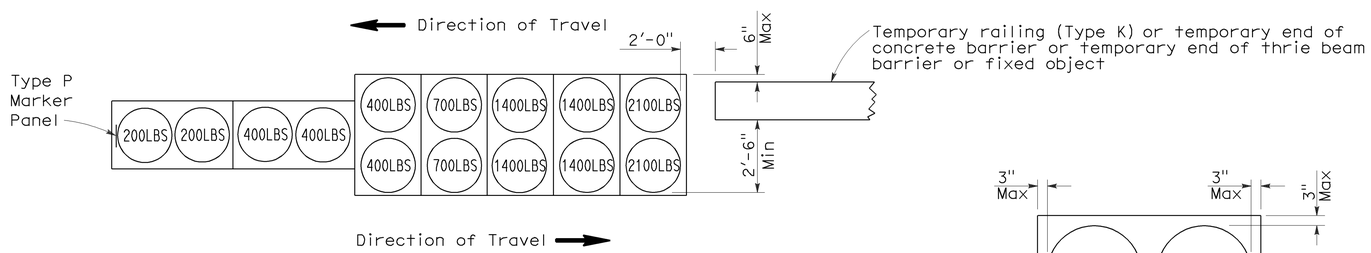
To accompany plans dated 9/20/10



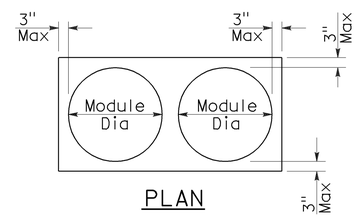
ARRAY 'TB11'

Approach speed less than 45 mph

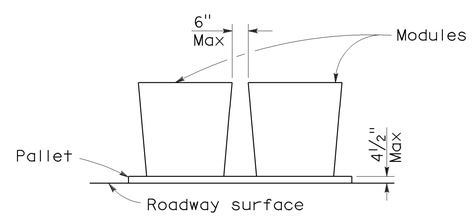


ARRAY 'TB14'

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
10	Ama	49	11.9/22.1	11	11

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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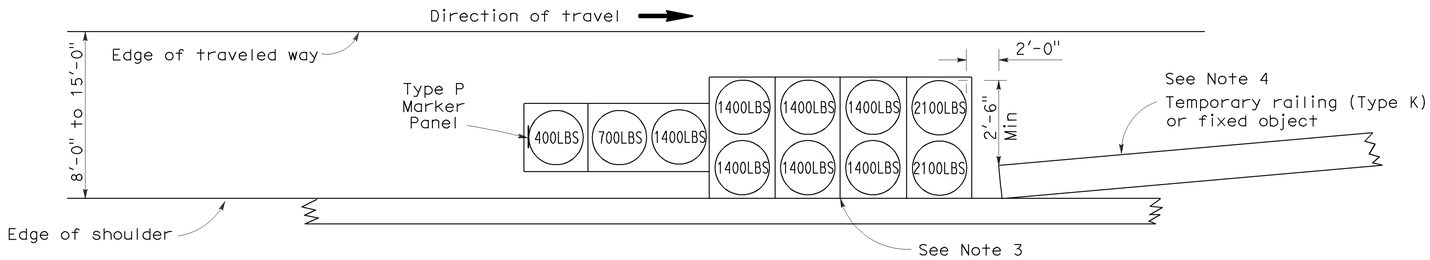
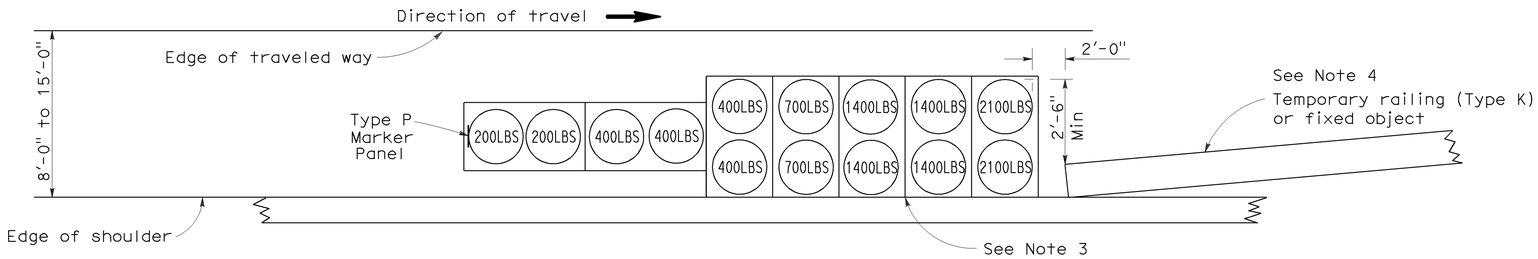
To accompany plans dated 9/20/10



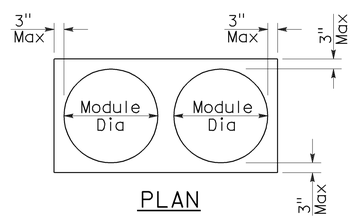
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

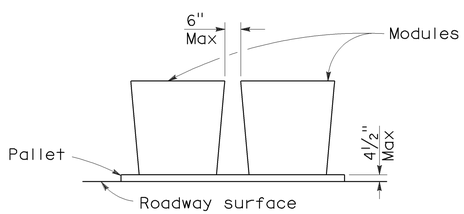


ARRAY 'TS14'

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