Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	116	0.0/7.0	1	7

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION AREA SIGNS
4	SUMMARY OF QUANTITIES
5-7	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

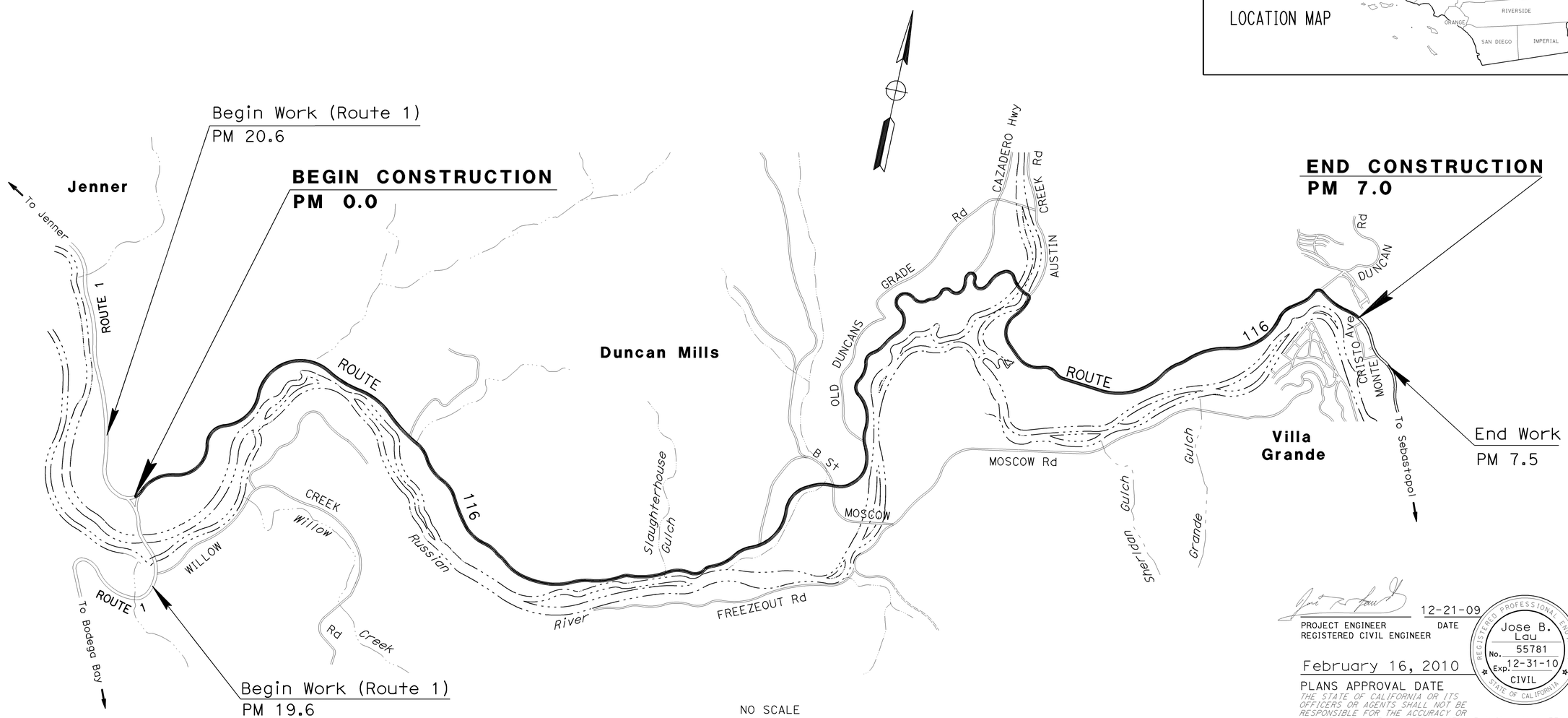
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SONOMA COUNTY
AT DUNCAN MILLS AND VILLA GRANDE
FROM ROUTE 1
TO MONTE CRISTO AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



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

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

12-21-09
DATE

REGISTERED PROFESSIONAL ENGINEER
Jose B. Lau
No. 55781
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

February 16, 2010
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.

PROJECT MANAGER: RAMSES SARGISS
DESIGN ENGINEER: VIJITH THILAKARATNE

LAST REVISION 02-10-10
DATE PLOTTED => 26-FEB-2010
TIME PLOTTED => 12:48

CONTRACT No. **04-1E6704**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	116	0.0/7.0	2	7

REGISTERED CIVIL ENGINEER 12-21-09 DATE

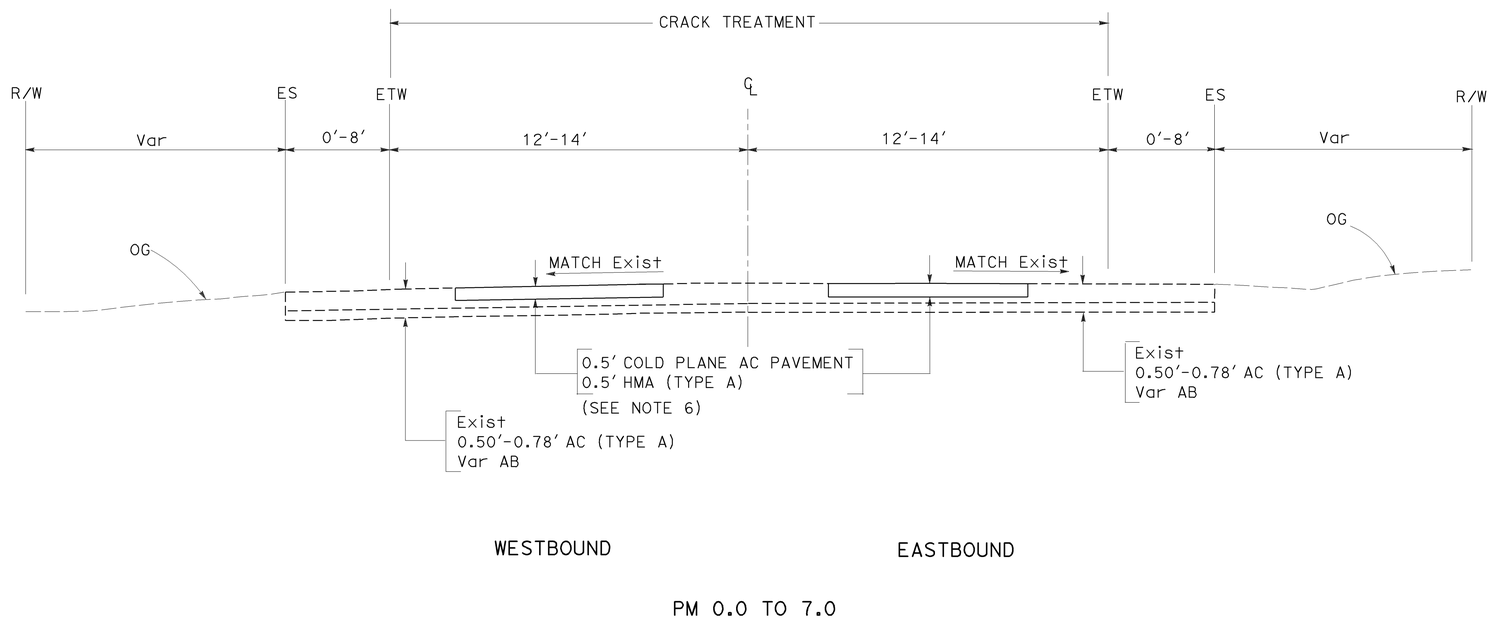
2-16-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jose B. Lau No. 55781 Exp. 12-31-10 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 STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES ARE NOT PLOTTED ON THESE TYPICAL CROSS SECTIONS.
4. FOR COMPLETE RIGHT OF WAY, SEE RIGHT OF WAY RECORD MAP AT THE DISTRICT OFFICE.
5. ALL EXISTING PAVEMENT DELINEATION REMOVED SHALL BE REPLACED AT THE SAME LOCATION AS THE EXISTING.
6. SEE SHEET Q-1 FOR EXACT LOCATIONS AND DIMENSIONS.



PM 0.0 TO 7.0

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: VIJITH THILAKARATNE
CALCULATED-DESIGNED BY: JOSE B. LAU
CHECKED BY: BINH HONG
REVISED BY
DATE REVISED

LAST REVISION 02-10-10 | DATE PLOTTED => 26-FEB-2010 | TIME PLOTTED => 12:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	116	0.0/7.0	3	7

REGISTERED CIVIL ENGINEER 12-21-09 DATE

2-16-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Duc Duy Vo No. 74538 Exp. 12-31-11 CIVIL STATE OF CALIFORNIA

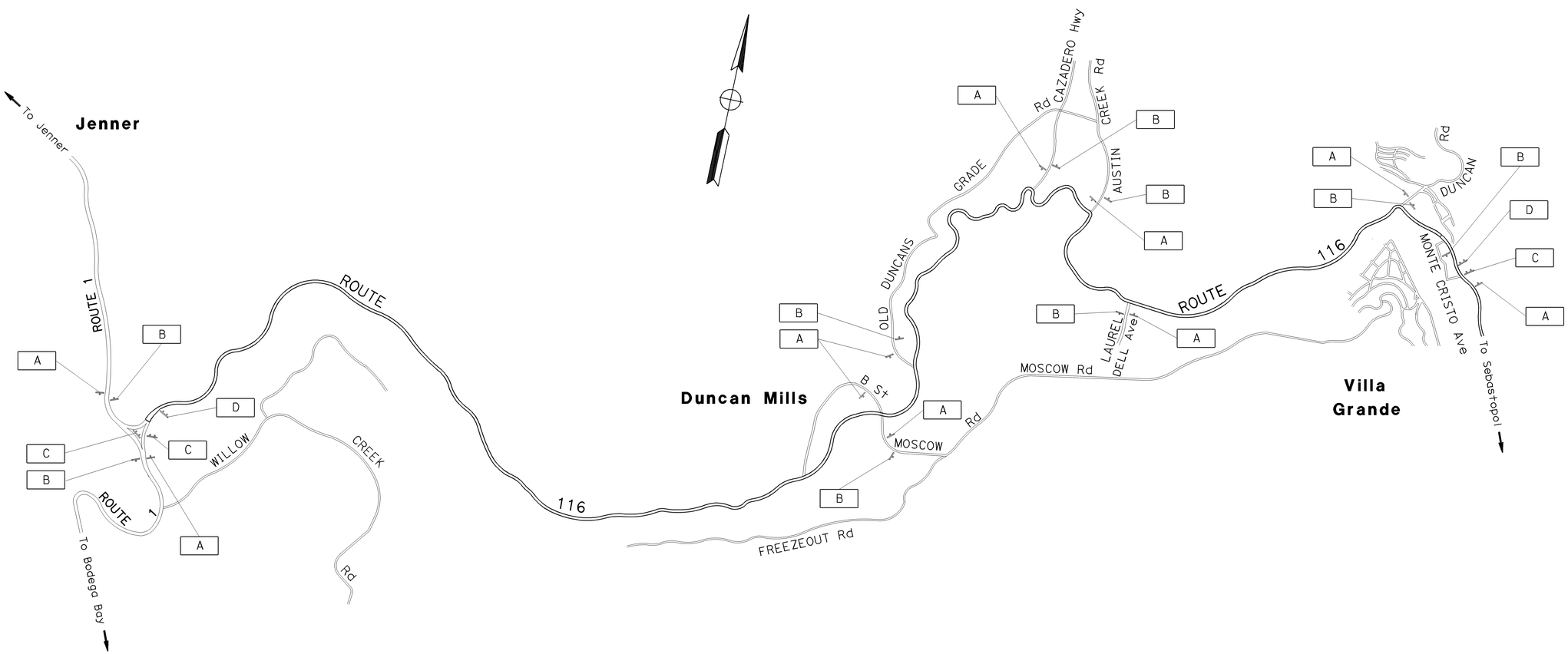
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	MESSAGE	PANEL SIZE	NUMBER OF WOOD POST AND SIZE	No. OF SIGNS
A	W20-1		ROAD WORK AHEAD	24'' x 24''	1 - 4'' x 6''	10
B	G20-2		END ROAD WORK	36'' x 18''	1 - 4'' x 4''	9
C	G20-1(30)		ROAD CONSTRUCTION NEXT 30 MILES	60'' x 36''	2 - 4'' x 4''	3
D		G40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	72'' x 36''	2 - 4'' x 6''	2

NOTE:

1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: JERILYN STRUVEN
CALCULATED-DESIGNED BY: DUC VO
CHECKED BY: JERILYN STRUVEN
REVISED BY: A
DATE REVISED: A

LAST REVISION 02-10-10
DATE PLOTTED => 26-FEB-2010
TIME PLOTTED => 12:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	116	0.0/7.0	4	7

REGISTERED CIVIL ENGINEER 12-21-09 DATE

2-16-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jose B. Lau No. 55781 Exp. 12-31-10 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.

ROADWAY QUANTITIES (EB)

LOCATION PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC PAVEMENT 0.5' DEPTH	HMA (TYPE A)	TACK COAT
	LF		SQYD	TON	
0.0	300	10	333	112.50	0.14
0.4	150	10	167	56.25	0.07
0.8	100	10	111	37.50	0.05
0.9	20	10	22	7.50	0.01
1.0	200	10	222	75.00	0.09
1.1	200	10	222	75.00	0.09
1.2	200	10	222	75.00	0.09
1.3	150	10	167	56.25	0.07
1.4	300	10	333	112.50	0.14
1.5	100	10	111	37.50	0.05
1.6	200	10	222	75.00	0.09
1.9	100	10	111	37.50	0.05
2.0	300	10	333	112.50	0.14
2.1	100	10	111	37.50	0.05
2.3	200	10	222	75.00	0.09
2.5	300	10	333	112.50	0.14
2.6	400	10	444	150.00	0.19
2.7	1200	10	1333	450.00	0.56
2.8	500	10	556	187.50	0.23
2.9	150	10	167	56.25	0.07
3.0	500	10	556	187.50	0.23
3.2	300	10	333	112.50	0.14
3.3	300	10	333	112.50	0.14
3.5	100	10	111	37.50	0.05
4.0	100	10	111	37.50	0.05
4.8	120	10	133	45.00	0.06
5.0	300	10	333	112.50	0.14
5.1	100	10	111	37.50	0.05
5.2	150	10	167	56.25	0.07
5.4	200	10	222	75.00	0.09
5.6	200	10	222	75.00	0.09
5.8	250	10	278	93.75	0.12
6.2	200	10	222	75.00	0.09
6.3	120	10	133	45.00	0.06
6.4	150	10	167	56.25	0.07
6.5	300	10	333	112.50	0.14
6.6	100	10	111	37.50	0.05
6.7	300	10	333	112.50	0.14
6.8	100	10	111	37.50	0.05
6.9	100	10	111	37.50	0.05
SUBTOTAL EB			10178	3435.00	4.00

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

ROADWAY QUANTITIES (WB)

LOCATION PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC PAVEMENT 0.5' DEPTH	HHMA (TYPE A)	TACK COAT
	LF		SQYD	TON	
6.9	30	10	33	11.25	0.01
6.7	96	10	107	36.00	0.04
6.0	240	10	267	90.00	0.11
5.9	30	10	33	11.25	0.01
5.8	200	10	222	75.00	0.09
5.3	48	10	53	18.00	0.02
5.2	36	10	40	13.50	0.02
5.1	148	10	164	55.50	0.07
4.3	24	10	27	9.00	0.01
3.8	30	10	33	11.25	0.01
3.7	150	10	167	56.25	0.07
3.5	200	10	222	75.00	0.09
3.2	50	10	56	18.75	0.02
3.1	20	10	22	7.50	0.01
3.0	200	10	222	75.00	0.09
2.9	300	10	333	112.50	0.14
2.8	200	10	222	75.00	0.09
2.7	400	10	444	150.00	0.19
2.5	400	10	444	150.00	0.19
2.4	150	10	167	56.25	0.07
2.3	300	10	333	112.50	0.14
2.2	150	10	167	56.25	0.07
2.1	300	10	333	112.50	0.14
2.0	100	10	111	37.50	0.05
1.8	400	10	444	150.00	0.19
1.7	150	10	167	56.25	0.07
1.3	100	10	111	37.50	0.05
1.1	350	10	389	131.25	0.16
0.9	130	10	144	48.75	0.06
0.8	25	10	28	9.37	0.01
0.6	30	10	33	11.25	0.01
0.4	50	10	56	18.75	0.02
0.0	250	10	278	93.75	0.12
SUBTOTAL WB			5874	1983.00	2.45
TOTAL EB & WB			16052	5418.00	7.00

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

CRACK TREATMENT

POST MILE	DIRECTION	CRACK TREATMENT
		LNMI
0.0 - 7.0	EASTBOUND	3
7.0 - 0.0	WESTBOUND	3
TOTAL		6

PAVEMENT DELINEATION QUANTITIES

POST MILE	DIRECTION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKERS RETROREFLECTIVE	
			4'' YELLOW	4'' WHITE	4'' YELLOW (BROKEN 36-12)	TYPE D	TYPE H
			LF			EA	
0.0 - 7.0	EASTBOUND	6			458	14	
		19	458		458	14	30
		22	16488			1030	
		27B		9160			
7.0 - 0.0	WESTBOUND	6			264	9	
		19	264		264	9	18
		22	9517			595	
		27B		5287			
SUBTOTAL			26727	14447	1444	1671	47
TOTAL			41174		1444	1719	

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: VIJITH THILAKARATNE
CALCULATED-DESIGNED BY: JOSE B. LAU
CHECKED BY: BINH HONG
REVISED BY / DATE REVISED

LAST REVISION 02-10-10 | DATE PLOTTED => 26-FEB-2010 | TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	116	0.0/7.0	5	7

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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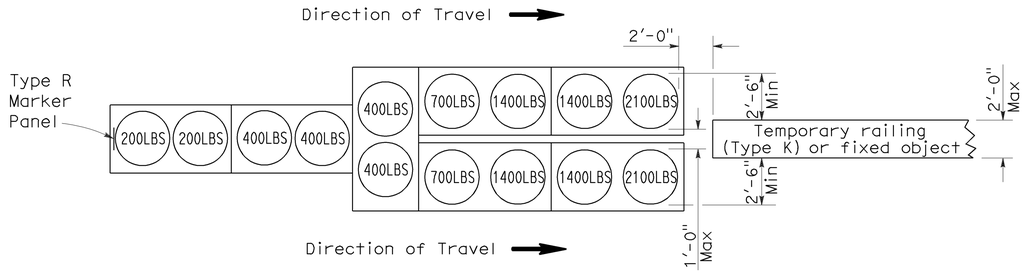
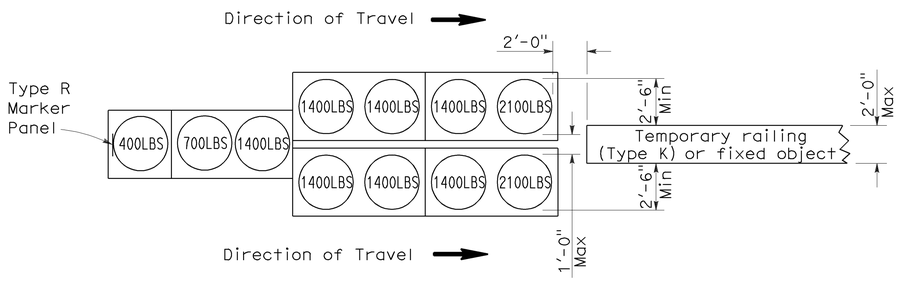
To accompany plans dated 2-16-10



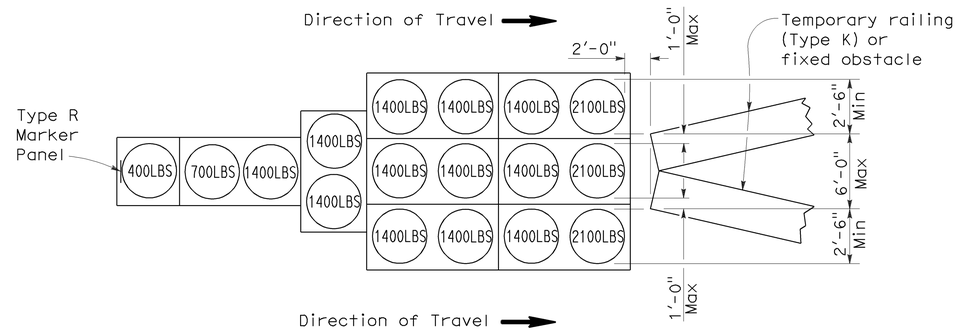
ARRAY 'TU14'

Approach speed 45 mph or more



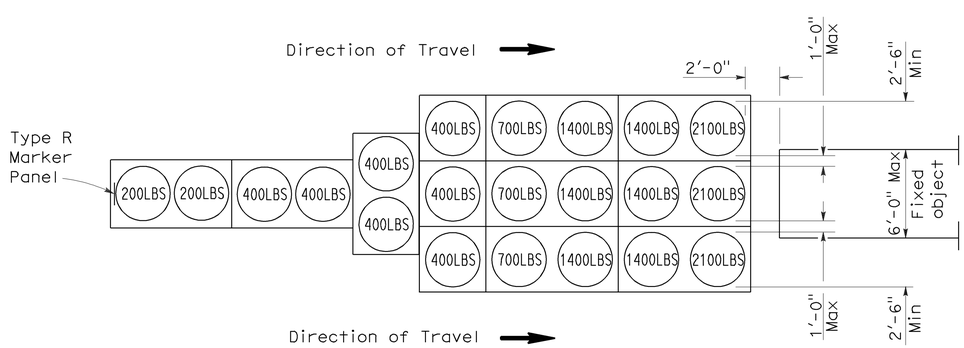
ARRAY 'TU11'

Approach speed less than 45 mph



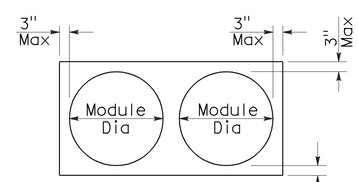
ARRAY 'TU17'

Approach speed less than 45 mph

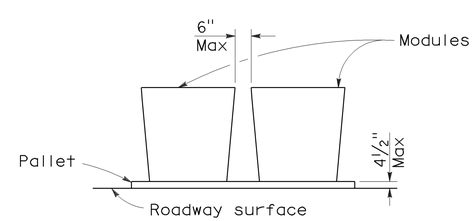


ARRAY 'TU21'

Approach speed 45 mph or more



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
04	Son	116	0.0/7.0	6	7

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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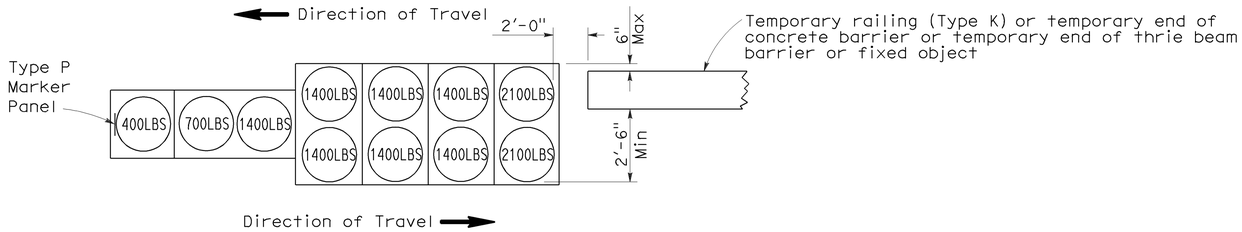
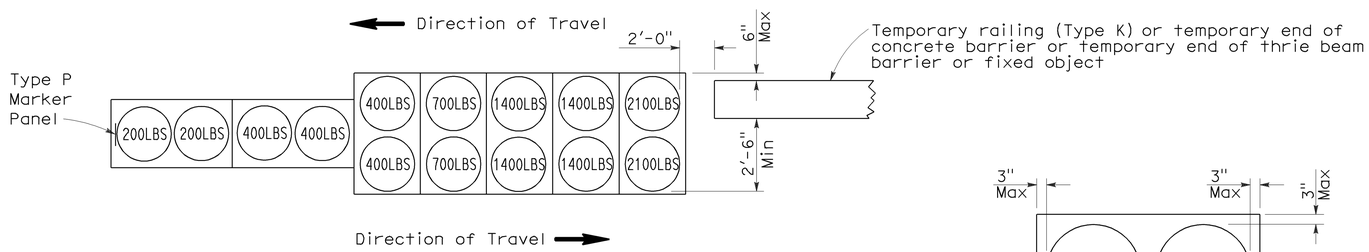
To accompany plans dated 2-16-10



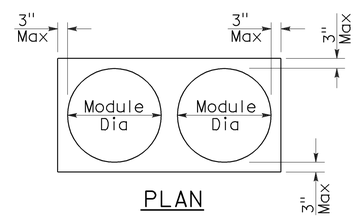
ARRAY 'TB11'

Approach speed less than 45 mph

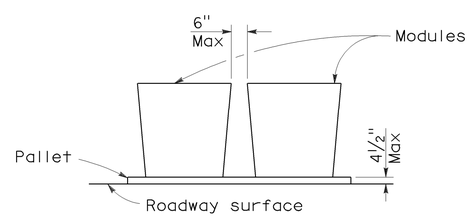


ARRAY 'TB14'

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
04	Son	116	0.0/7.0	7	7

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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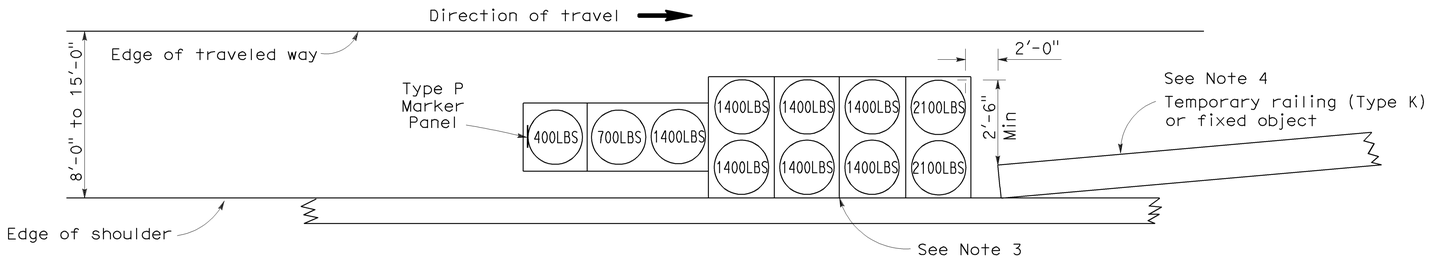
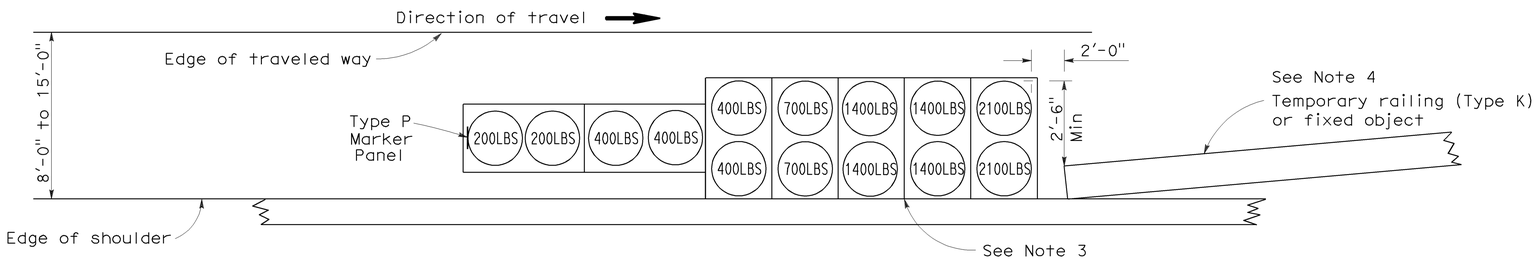
To accompany plans dated 2-16-10



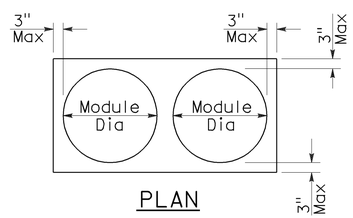
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

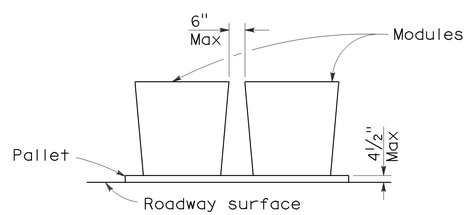


ARRAY 'TS14'

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