Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	113	0.0 / 7.0	1	8

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

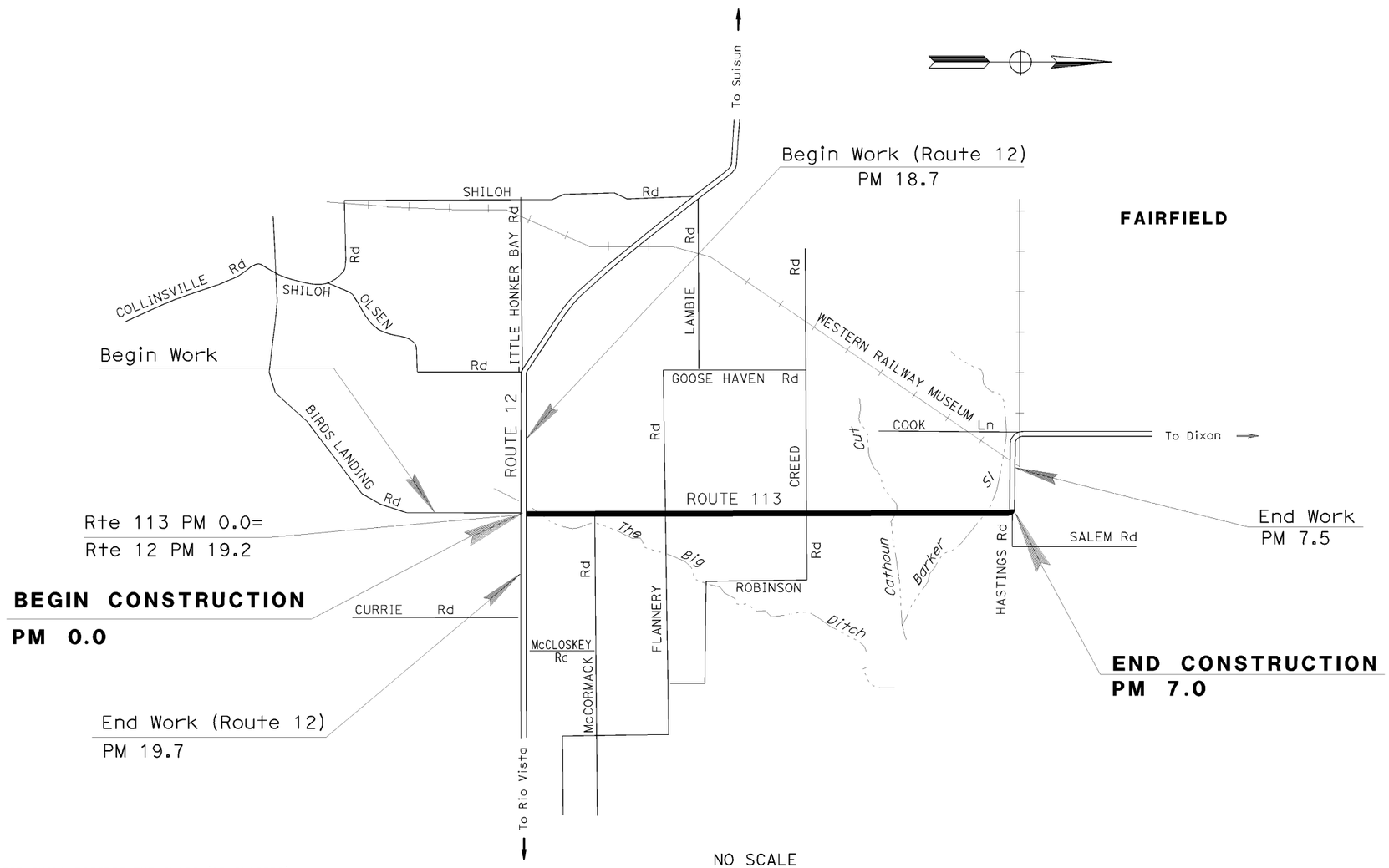
IN SOLANO COUNTY
NEAR FAIRFIELD
FROM ROUTE 12
TO HASTINGS ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF SHEETS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION AREA SIGNS
4	PAVEMENT DELINEATION QUANTITIES
5	SUMMARY OF QUANTITIES
6-8	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: RAMSES SARGISS

DESIGN ENGINEER: VIJITH THILAKARATNE

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 01-24-11

February 7, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Binh V. Hong — No. 63850 — Exp. 9-30-12 — 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.

CONTRACT No.	04-2E0404
PROJECT ID	0400002025

LAST REVISION 01-24-11 — DATE PLOTTED => 07-FEB-2011 — TIME PLOTTED => 10:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Sol	113	0.0/7.0	2	8

REGISTERED CIVIL ENGINEER 01-24-11 DATE

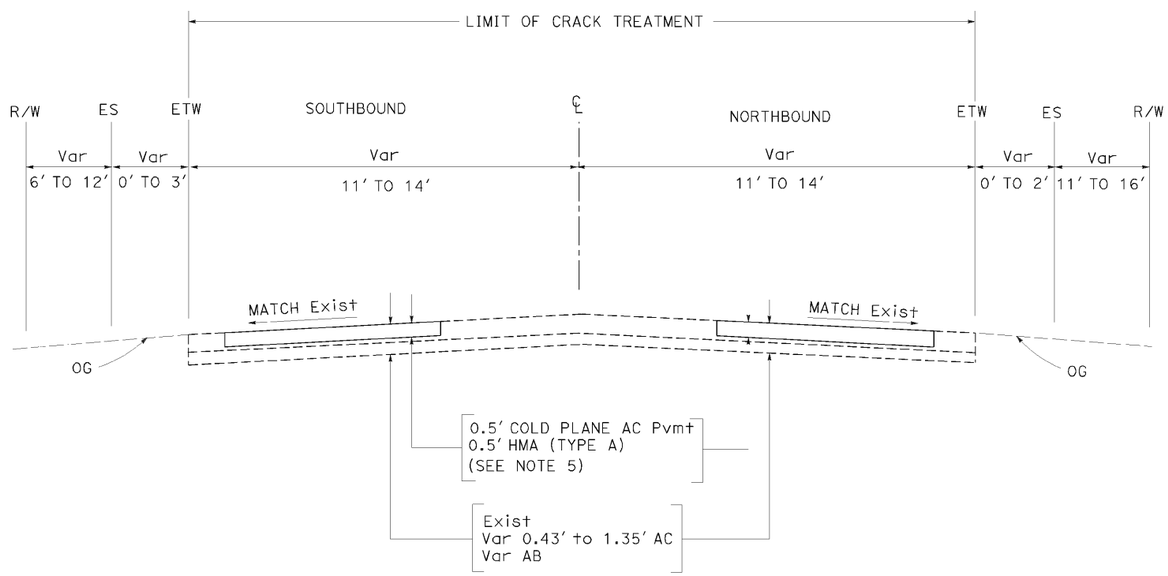
PLANS APPROVAL DATE 02-07-11

REGISTERED PROFESSIONAL ENGINEER Binh V. Hong No. 63850 Exp. 9-30-12 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.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. EXISTING UTILITY FACILITIES ARE NOT PLOTTED ON THESE PLANS.
4. EXISTING PAVEMENT DELINEATION OBLITERATED WILL BE REPLACED AT THE SAME ALIGNMENT AND LOCATIONS AS EXISTING.
5. FOR LOCATIONS AND DIMENSIONS OF COLD PLANE ASPHALT CONCRETE PAVEMENT, SEE SUMMARY OF QUANTITIES SHEET.



ROUTE 113

PM 0.0/7.0

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR VIJITH THILAKARATNE

CALCULATED-DESIGNED BY BINH HONG

CHECKED BY ATSEDE AYALEW

REVISED BY

DATE REVISED

LAST REVISION 01-25-11

DATE PLOTTED => 09-FEB-2011

TIME PLOTTED => 08:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	113	0.0/7.0	3	8

REGISTERED CIVIL ENGINEER 01-19-11 DATE

02-07-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

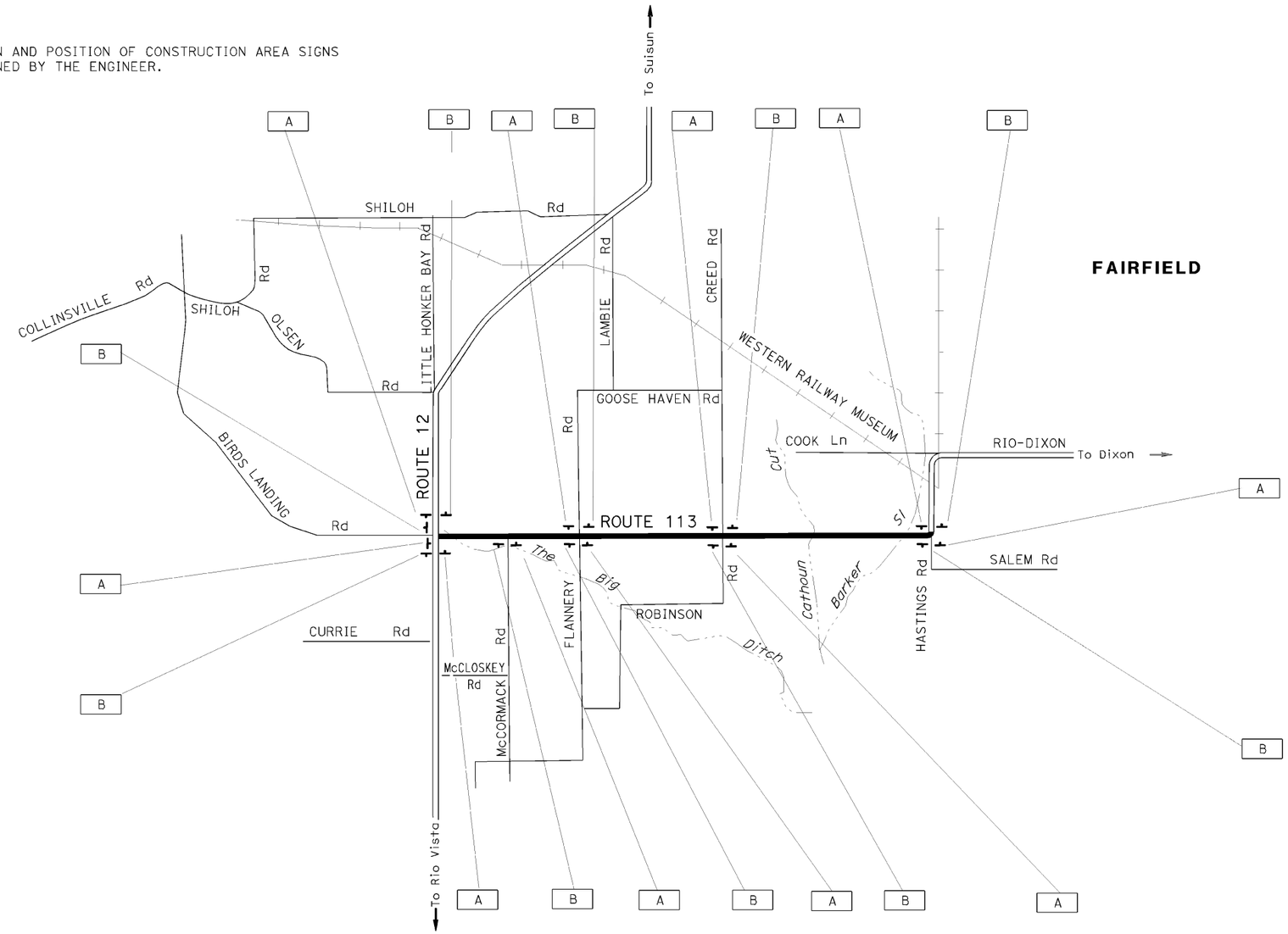
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

L CONSTRUCTION AREA SIGN

NOTE:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	SIGN MESSAGE	PANEL SIZE (INCH X INCH)	NO. OF POSTS & SIZE (EA-INCH X INCH)	QUANTITY (EACH)
A	W20-1	ROAD WORK AHEAD	48 X 48	1-4 X 6	10
B	G20-2	END ROAD WORK	36 X 18	1-4 X 4	10

CONSTRUCTION AREA SIGNS

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU - YEUNG
CALCULATED-DESIGNED BY: CLAUDIA FANG
CHECKED BY: LOURDES DAVID
REVISED BY
DATE REVISED

LAST REVISION 01-25-11
DATE PLOTTED => 02-FEB-2011
TIME PLOTTED => 14:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	113	0.0/7.0	4	8

REGISTERED CIVIL ENGINEER 01-24-11 DATE

02-07-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Binh V. Hong No. 63850 Exp. 9-30-12 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.

PAVEMENT DELINEATION QUANTITIES

LOCATION PM/PM	DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE)		THERMOPLASTIC TRAFFIC STRIPE		
				4"		4"
		TYPE D	TYPE H	YELLOW	WHITE	YELLOW (BROKEN 36'-12')
		EA		LF		
0.0/7.0	27B				15000	
	19	11	84	2000		500
	6	43				2000
	22	209		5000		
SUBTOTAL		263	84	7000	15000	2500
TOTAL		347		22000		2500

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: VIJITH THILAKARATNE
CALCULATED-DESIGNED BY: BINH HONG
CHECKED BY: ATSEDE AYALEW
REVISED BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES

NO SCALE

PDQ-1

LAST REVISION 01-25-11
DATE PLOTTED => 02-FEB-2011
TIME PLOTTED => 14:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	113	0.0/7.0	5	8

REGISTERED CIVIL ENGINEER 01-24-11 DATE

02-07-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Binh V. Hong No. 63850 Exp. 9-30-12 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.

ROADWAY QUANTITIES

PM	DIRECTION	LENGTH [N]	WIDTH [N]	AREA [N]	COLD PLANE AC Pvmt	HMA (TYPE A)	TACK COAT
		LF		SQFT	SQYD	TON	
0.0	NB	175	6	1050	117	39	0.05
0.2		100	12	1200	133	45	0.06
0.3		300	12	3600	400	135	0.17
0.4		400	12	4800	533	180	0.22
0.6		40	12	480	53	18	0.02
0.7		100	12	1200	133	45	0.06
0.8		200	6	1200	133	45	0.06
1.5		50	6	300	33	11	0.01
1.6		100	6	600	67	22	0.03
2.0 to 2.9		3600	12	43200	4800	1616	2.00
3		50	6	300	33	11	0.01
3.4		50	6	300	33	11	0.01
3.8		100	6	600	67	22	0.03
3.9		200	6	1200	133	45	0.06
4.0		120	12	1440	160	54	0.07
4.4		50	6	300	33	11	0.01
4.8		50	6	300	33	11	0.01
5.1		200	6	1200	133	45	0.06
5.5		120	6	720	80	27	0.03
5.6		100	6	600	67	22	0.03
5.7		500	12	6000	667	224	0.28
5.9		300	6	1800	200	67	0.08
6.1		100	12	1200	133	45	0.06
6.6		200	6	1200	133	45	0.06
6.7		200	6	1200	133	45	0.06
6.8		300	6	1800	200	67	0.08
6.9		200	6	1200	133	45	0.06
6.9	SB	100	12	1200	133	45	0.06
6.6		100	12	1200	133	45	0.06
6.5		300	12	3600	400	135	0.17
6.2		200	12	2400	267	90	0.11
5.8		500	6	3000	333	112	0.14
5.7		300	6	1800	200	67	0.08
5.5		200	6	1200	133	45	0.06
5.4		200	12	2400	267	90	0.11
5.2		300	6	1800	200	67	0.08
5.0		300	6	1800	200	67	0.08
4.9		500	6	3000	333	112	0.14
4.4-4.1		1400	12	16800	1867	628	0.78
3.5		200	12	2400	267	90	0.11
3.2		300	12	3600	400	135	0.17
3.2-2.9		1000	6	6000	667	224	0.28
2.4-2.1		1000	6	6000	667	224	0.28
0.4		200	12	2400	267	90	0.11
Total		15,005			15510	5,222	6

[N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: VIJITH THILAKARATNE
CALCULATED-DESIGNED BY: BINH HONG
CHECKED BY: ATSEDE AYALEW
REVISED BY
DATE REVISED

LAST REVISION 01-25-11
DATE PLOTTED => 02-FEB-2011
TIME PLOTTED => 14:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Sol	113	0.0/7.0	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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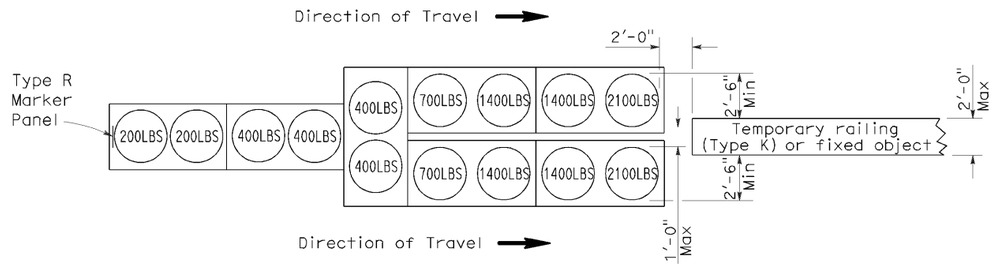
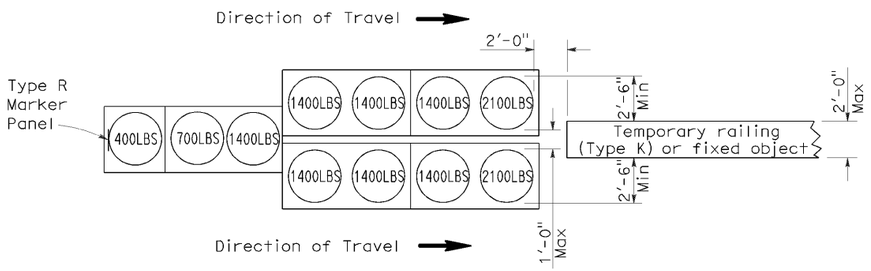
To accompany plans dated 02-07-11



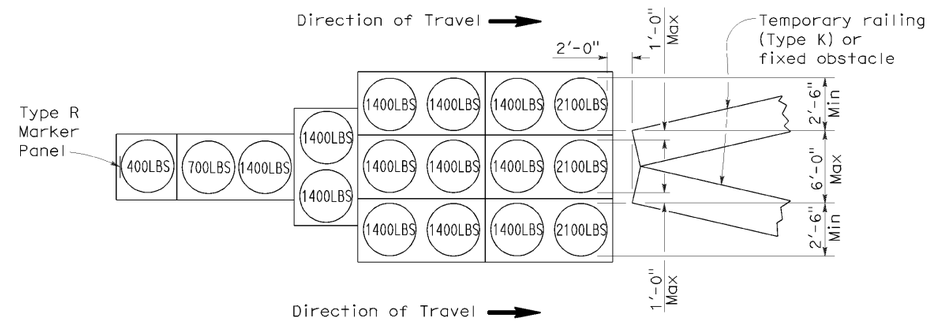
ARRAY 'TU14'

Approach speed 45 mph or more



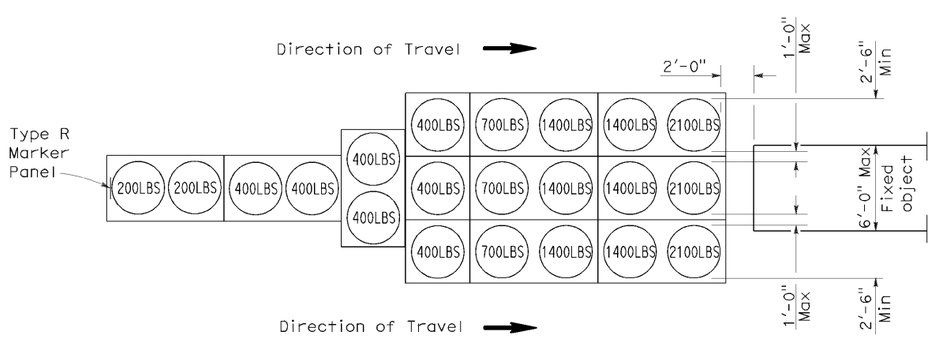
ARRAY 'TU11'

Approach speed less than 45 mph



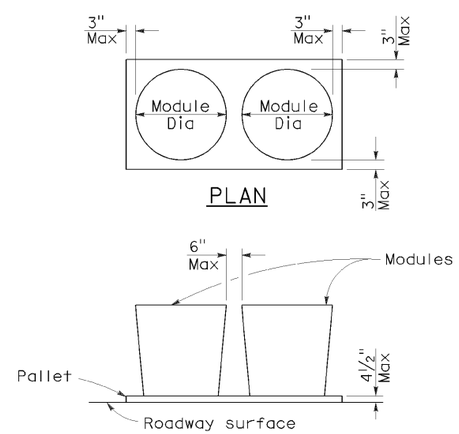
ARRAY 'TU17'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Sol	113	0.0/7.0	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

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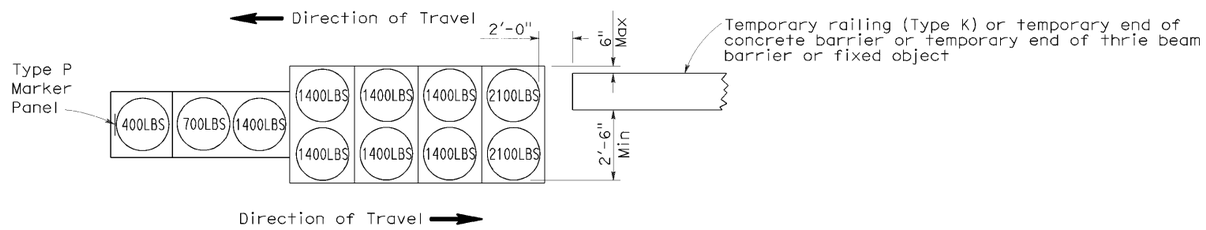
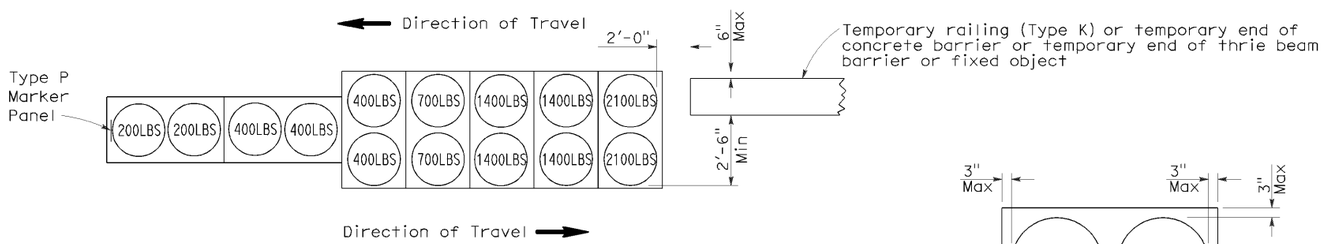
To accompany plans dated 02-07-11



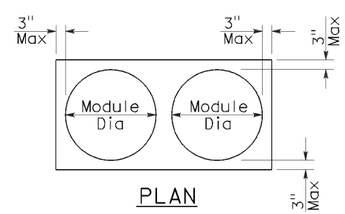
ARRAY 'TB11'

Approach speed less than 45 mph

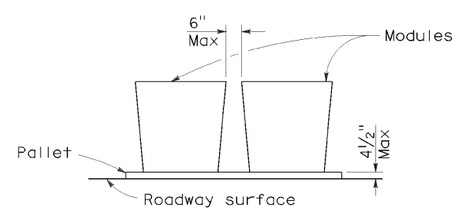


ARRAY 'TB14'

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	Sol	113	0.0/7.0	8	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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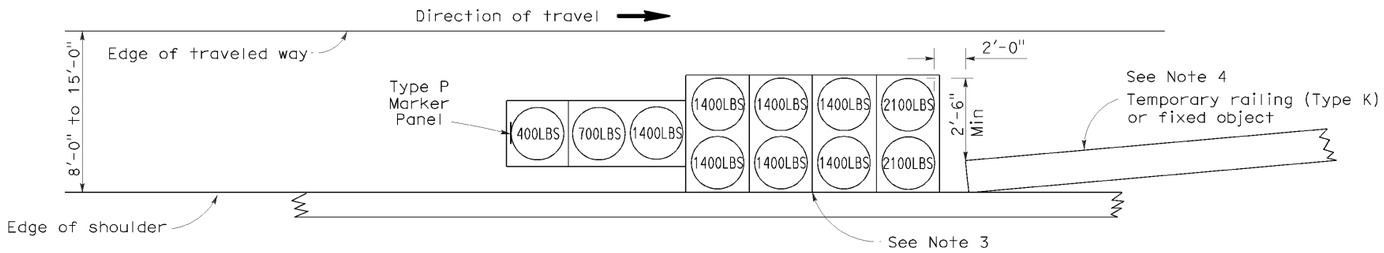
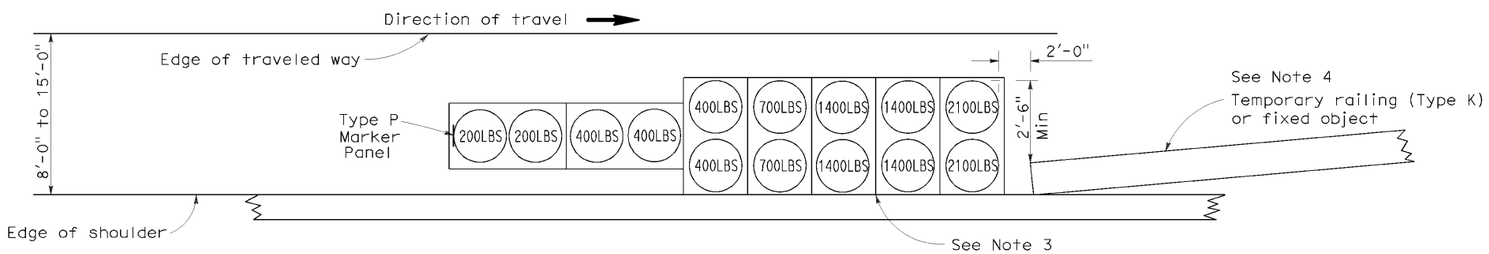
To accompany plans dated 02-07-11



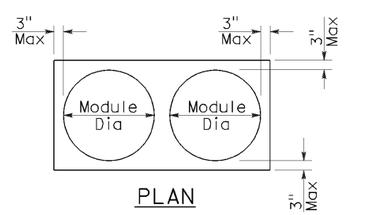
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

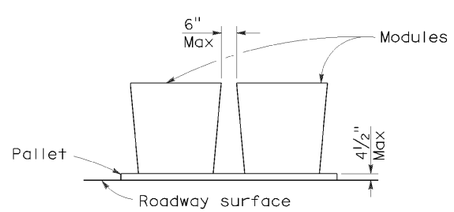


ARRAY 'TS14'

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