Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	1	11

INDEX OF PLANS

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

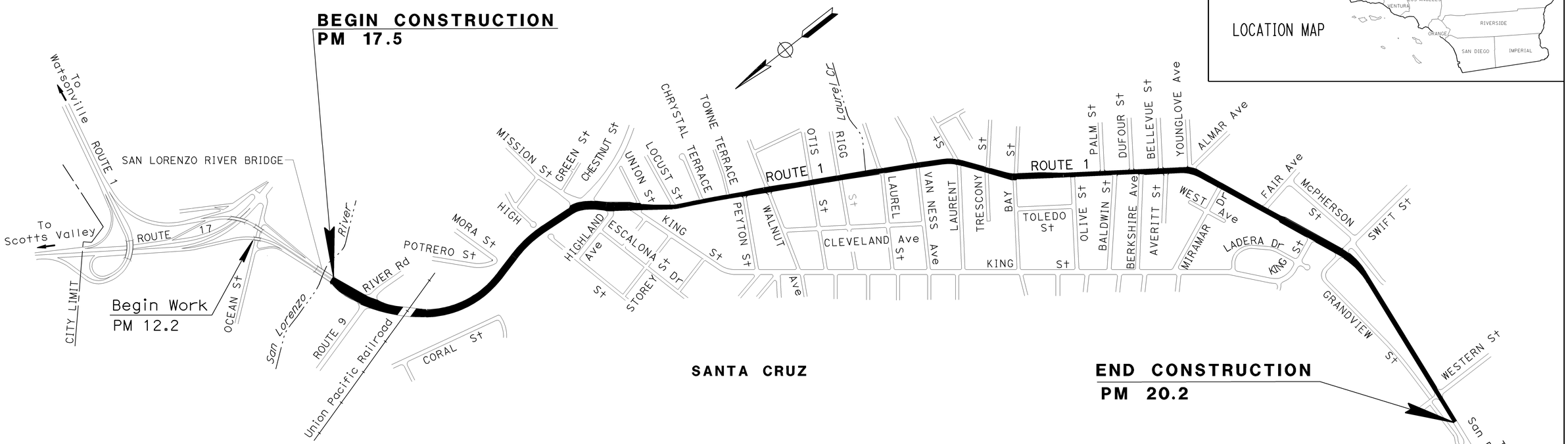
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SANTA CRUZ COUNTY
IN SANTA CRUZ
FROM SAN LORENZO RIVER BRIDGE
TO 0.1 MILE NORTH OF WESTERN STREET

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 MANAGER: KELLY McCLAIN

DESIGN ENGINEER: KELLY McCLAIN

2-7-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 7, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ARMAN ASEFVAZIRI
No. 52047
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.

CONTRACT No.	05-0T3704
PROJECT ID	0500000843

LAST REVISION 02-07-11 DATE PLOTTED => 08-FEB-2011 TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	2	11

REGISTERED CIVIL ENGINEER 2-7-11 DATE

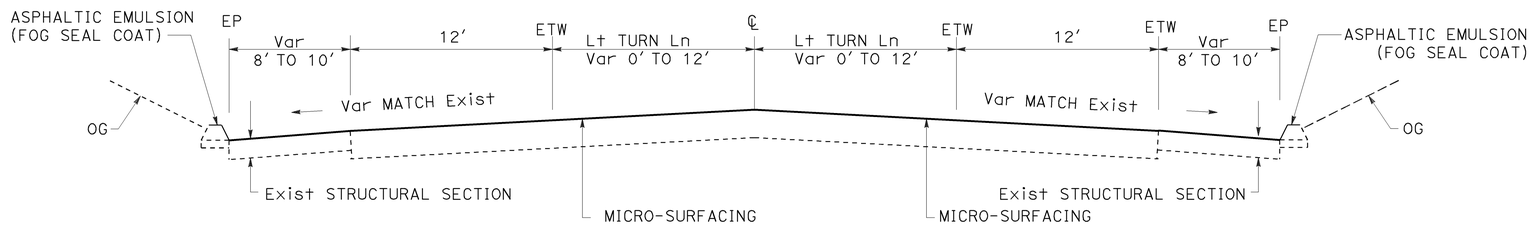
2-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARMAN ASEFVAZIRI No. 52047 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

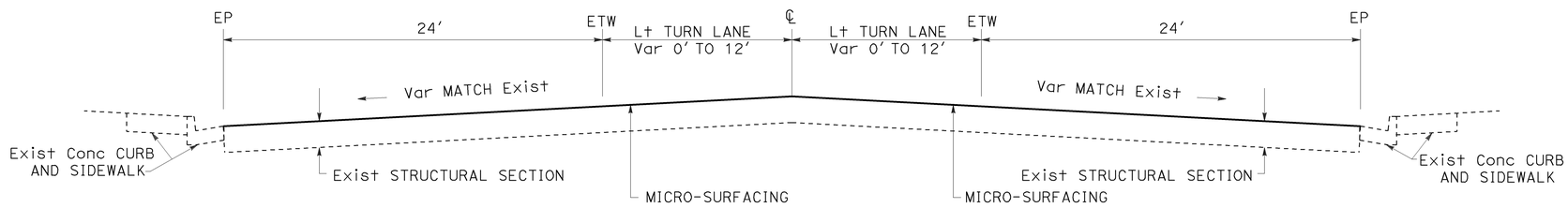
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

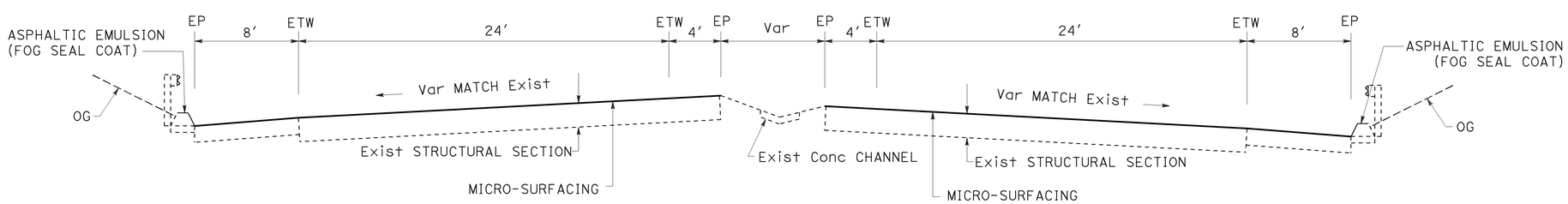
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. MICRO-SURFACING SHALL NOT BE PLACED ON PCC STRUCTURES PCC CURB AND GUTTER, DRAINAGE INLET APRONS, UTILITY APRONS OR SURVEY MONUMENTS.
4. APPLY ASPHALTIC EMULSION (FOG SEAL COAT) TO EXISTING AC DIKE AS DIRECTED BY THE ENGINEER.



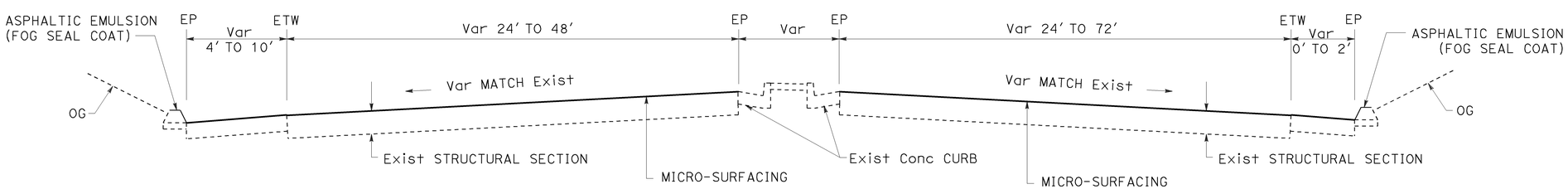
PM 19.8 TO PM 20.2



PM 18.2 TO PM 19.8



PM 17.8 TO PM 18.1



PM 17.5 TO PM 17.8

PM 18.1 TO PM 18.2

ROUTE 1

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY McCLAIN

CALCULATED-DESIGNED BY: ARMAN ASEFVAZIRI — CHECKED BY: KELLY McCLAIN

REVISED BY: AA — DATE REVISED: KJM

LAST REVISION 02-07-11 — DATE PLOTTED => 08-FEB-2011 — TIME PLOTTED => 12:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	3	11

REGISTERED CIVIL ENGINEER 2-7-11 DATE

2-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARMAN ASEFVAZIRI No. 52047 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.

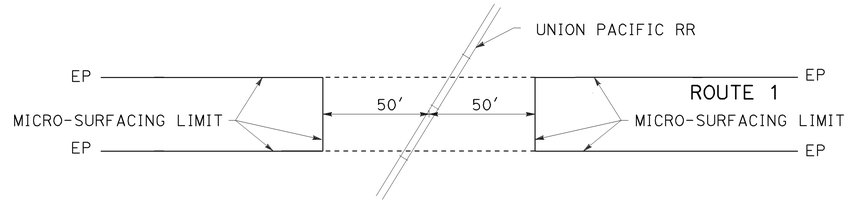
NOTE:

1. FOR LOCATIONS SEE SUMMARY OF QUANTITIES SHEET (Q-1).

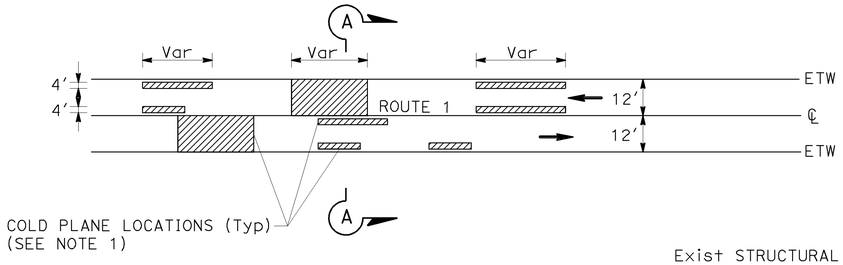
LEGEND:

COLD PLANE AC Pvmt, AND HMA (TYPE A)

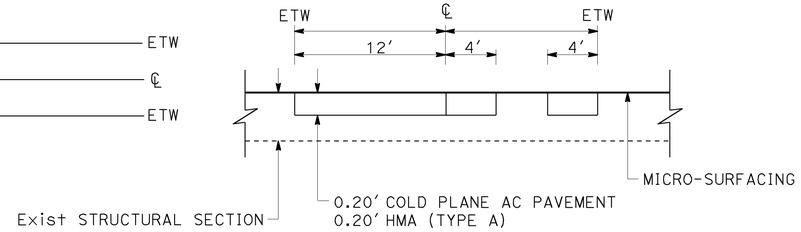
DIRECTIONAL ARROW



RAILROAD CROSSING CONFORM

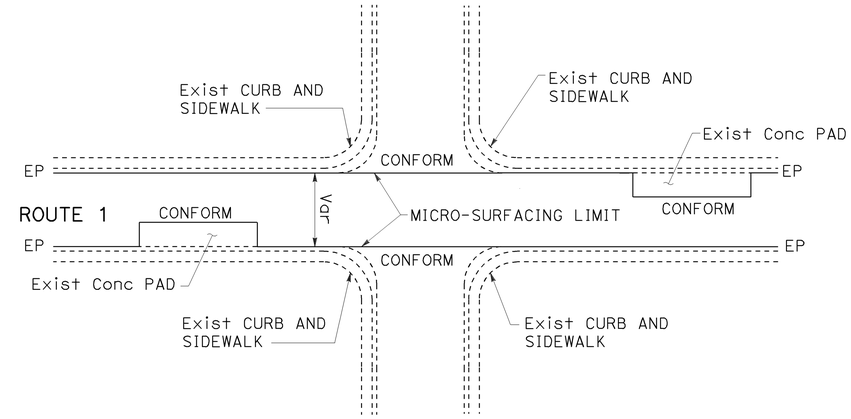


TYPICAL LAYOUT

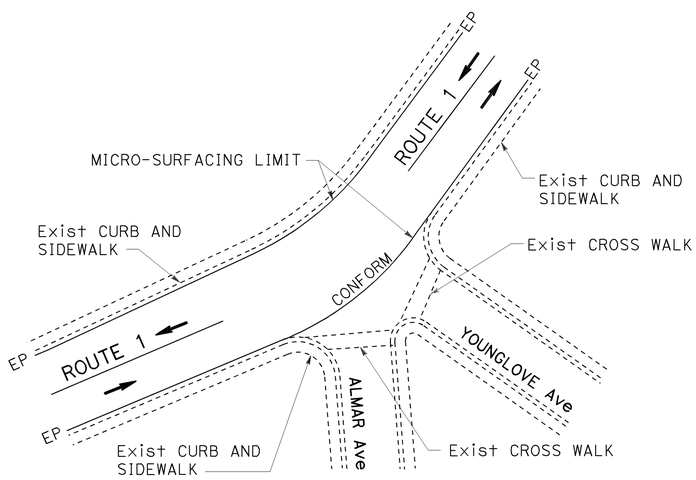


SECTION A-A

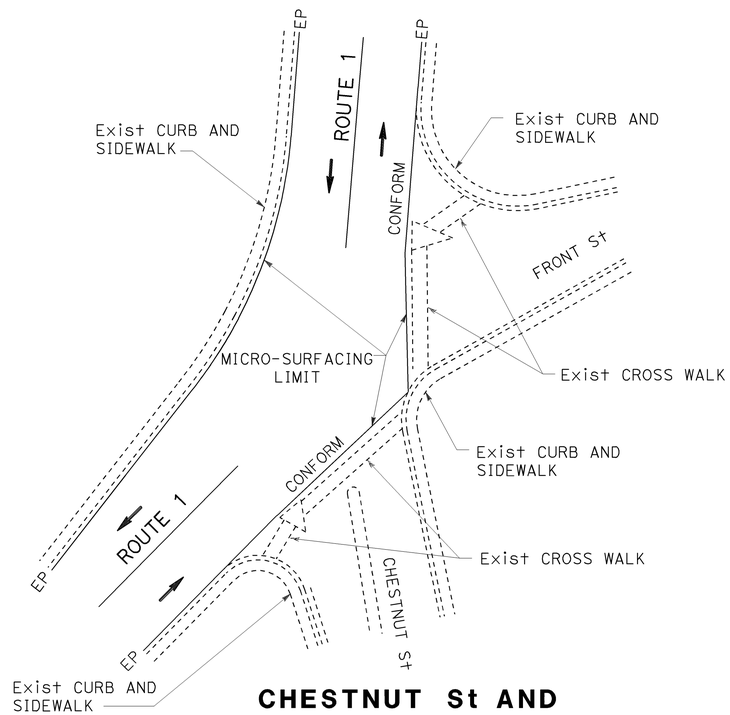
ROADWAY REPAIR



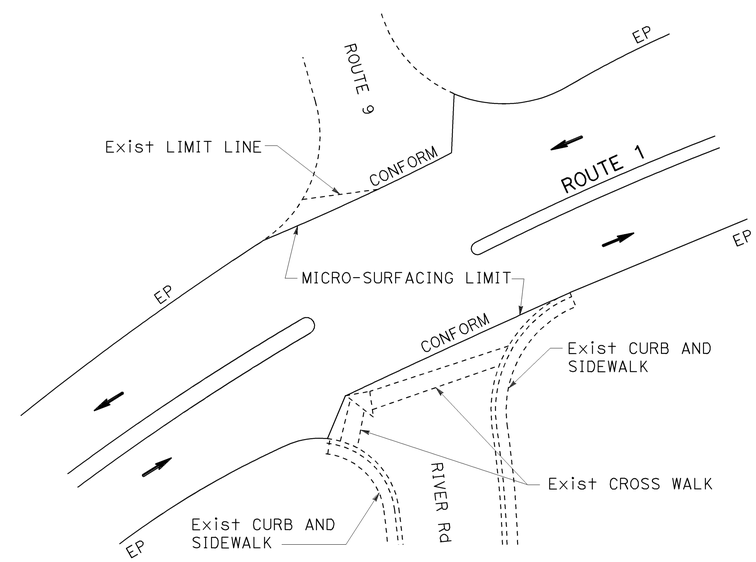
TYPICAL INTERSECTION AND CONCRETE PAD CONFORM



YOUNGLOVE Ave AND ALMAR Ave CONFORM



CHESTNUT St AND FRONT St CONFORM



ROUTE 9 AND RIVER Rd CONFORM

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	DATE REVISED
AA	KJM

ARMAN ASEFVAZIRI — KELLY McCLAIN

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — KELLY McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE DESIGN

LAST REVISION 02-07-11 | DATE PLOTTED => 08-FEB-2011 | TIME PLOTTED => 12:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	4	11

REGISTERED CIVIL ENGINEER 2-7-11 DATE

2-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARMAN ASEFVAZIRI No. 52047 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 NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	G20-1	36" x 18"	ROAD WORK AHEAD NEXT ___ MILE	1 - 4" x 6"	2
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 6"	2
C	W20-1	30" x 30"	ROAD WORK AHEAD	1 - 4" x 4"	44
D	SC6-4	48" x 60"	RAMP CLOSED...	1 - 6" x 6"	2

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

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY McCLAIN
ARMAN ASEFVAZIRI | REVISED BY: AA
KELLY McCLAIN | DATE REVISED: KJM
CALCULATED-DESIGNED BY
CHECKED BY

LAST REVISION 02-07-11 | DATE PLOTTED => 08-FEB-2011 | TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	5	11

REGISTERED CIVIL ENGINEER 2-7-11 DATE

2-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARMAN ASEFVAZIRI No. 52047 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.

PAVEMENT STRUCTURE

LIMIT	MICRO-SURFACING	HMA (TYPE A)	COLD PLANE AC PAVEMENT	TACK COAT	ASPHALTIC EMULSION (FOG SEAL COAT)
PM	TON	TON	SQYD	TON	TON
17.5 TO 20.2	1300	1000	7822	2.6	0.8
TOTAL	1300	1000	7822	2.6	0.8

REMOVE YELLOW THERMOPLASTIC

LIMIT	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUSE WASTE)				REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING (HAZARDOUSE WASTE)
	DETAIL				
	22	25	29	41	CROSSWALK, HATCHING
PM	LF				SQFT
17.5 TO 20.2	14,150	9240	5069	23	400
TOTAL	28,482				400

REMOVE PAINTED TRAFFIC STRIPE

LIMIT	4" TRAFFIC STRIPE
	DETAIL
	27B
PM	LF
17.5 TO 20.2	9155
TOTAL	9155

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LIMIT	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	8" THERMOPLASTIC	6" THERMOPLASTIC	6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1)
	DETAIL						
	9	11	37	38	39	39A	40
	LF						
17.5 TO 20.2	4481	2006	127	9292	158	220	68
TOTAL	16,354						

THERMOPLASTIC TRAFFIC STRIPE

LIMIT	4" THERMOPLASTIC TRAFFIC STRIPE				4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	8" THERMOPLASTIC	6" THERMOPLASTIC	6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4)	TRAFFIC STRIPE (MARKERS ONLY) (N)		PAVEMENT MARKER (RETROREFLECTIVE)			PAVEMENT MARKER (NON-REFLECTIVE)	
	DETAIL												TYPE				
	22	25	27B	29	9	11	37	38	39	39A	40A	41A	D	G	H	A	AY
	LF												EA				
17.5 TO 20.2	14,150	9240	9155	5069	15,365	8026	317	4646	106	528	815	180	739	238	201	213	47
TOTAL	37,614				15,365	8026	317	4646	106	528			1177			260	

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

ROADWAY REPAIR

LIMIT	COLD PLANE AC PAVEMENT		HMA (TYPE A)		TACK COAT	
	NB	SB	NB	SB	NB	SB
	SQYD		TON		TON	
SAN LORENZO RIVER Br TO ROUTE 9	73	504	9	64	0.02	0.17
ROUTE 9 TO CHESTNUT St	698	889	89	114	0.23	0.30
CHESTNUT St TO UNION St	724	107	93	14	0.24	0.04
UNION St TO WALNUT Ave		198		25		0.07
WALNUT Ave TO LAUREL St	173	36	22	5	0.06	0.01
LAUREL St TO BAY St	36	73	5	9	0.01	0.02
BAY St TO YOUNGLOVE Ave	176	189	23	24	0.06	0.06
YOUNGLOVE Ave TO MIRAMAR Dr						
MIRAMAR Dr TO SWIFT St						
SWIFT St TO WESTERN St	2080	1110	266	142	0.69	0.37
WESTERN St TO PM 20.2	400	356	51	45	0.13	0.12
	4360	3462	558	442	1.44	1.16
TOTAL	7822 *		1000 *		2.60 *	

* QUANTITIES ARE INCLUDED IN PAVEMENT STRUCTURE SUMMARY.

THERMOPLASTIC PAVEMENT MARKING

LIMIT	TYPE II ARROW		TYPE II(B) ARROW		TYPE III ARROW		TYPE VI ARROW		RAILROAD CROSSING		YIELD LINE		LIMIT LINE, CROSSWALK AND HATCHING	YELLOW CROSSWALK AND HATCHING	BICYCLE LOOP DETECTOR SYMBOL	
	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	SQFT	SQFT	EA (N)	SQFT
17.5 TO 20.2	3	135	2	118	38	1596	9	378	5	370	44	132	2995	400	30	60
TOTAL	6124															

FOR LOCATIONS OF NEW BICYCLE LOOP DETECTOR SYMBOL, SEE TYPE D LOCATIONS SHOWN ON SHEETS E-1 AND E-2.
(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

REMOVE THERMOPLASTIC PAVEMENT MARKING

LIMIT	TYPE II ARROW		TYPE II(B) ARROW		TYPE III ARROW		TYPE VI ARROW		RAILROAD CROSSING		YIELD LINE		LIMIT LINE, CROSSWALK AND HATCHING
	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	SQFT
17.5 TO 20.2	3	135	2	118	38	1596	9	378	5	370	44	132	2935
TOTAL	5664												

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

SUMMARY OF QUANTITIES
Q-1

AA KJM REVISED BY DATE REVISED
ARMAN ASEFVAZIRI KELLY McCLAIN CALCULATED-DESIGNED BY CHECKED BY
KELLY McCLAIN FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 02-07-11 DATE PLOTTED => 08-FEB-2011 TIME PLOTTED => 12:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	6	11

REGISTERED ELECTRICAL ENGINEER — DATE 2-7-11

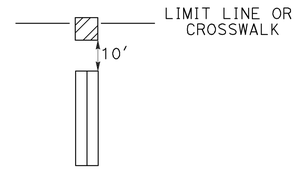
PLANS APPROVAL DATE 2-7-11

REGISTERED PROFESSIONAL ENGINEER K.J.VOMASKE No. 15720 Exp. 6-30-12 ELECTRICAL 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 (FOR SHEETS E-1 AND E-2):

1. FRONT END LOOPS SHALL EXTEND 2′ PAST LIMIT LINE OR CROSSWALK.
2. EXISTING SIGNAL AND LIGHTING SYSTEM NOT SHOWN.
3. AB EXISTING LOOP DETECTORS.
4. USE EXISTING TERMINATION CONDUITS FOR NEW LOOP CONDUCTORS.
5. TYPE D LOOPS SHALL HAVE 5 TURNS EACH.
6. RIGHT OF WAY LIMITS ARE INDETERMINATE AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

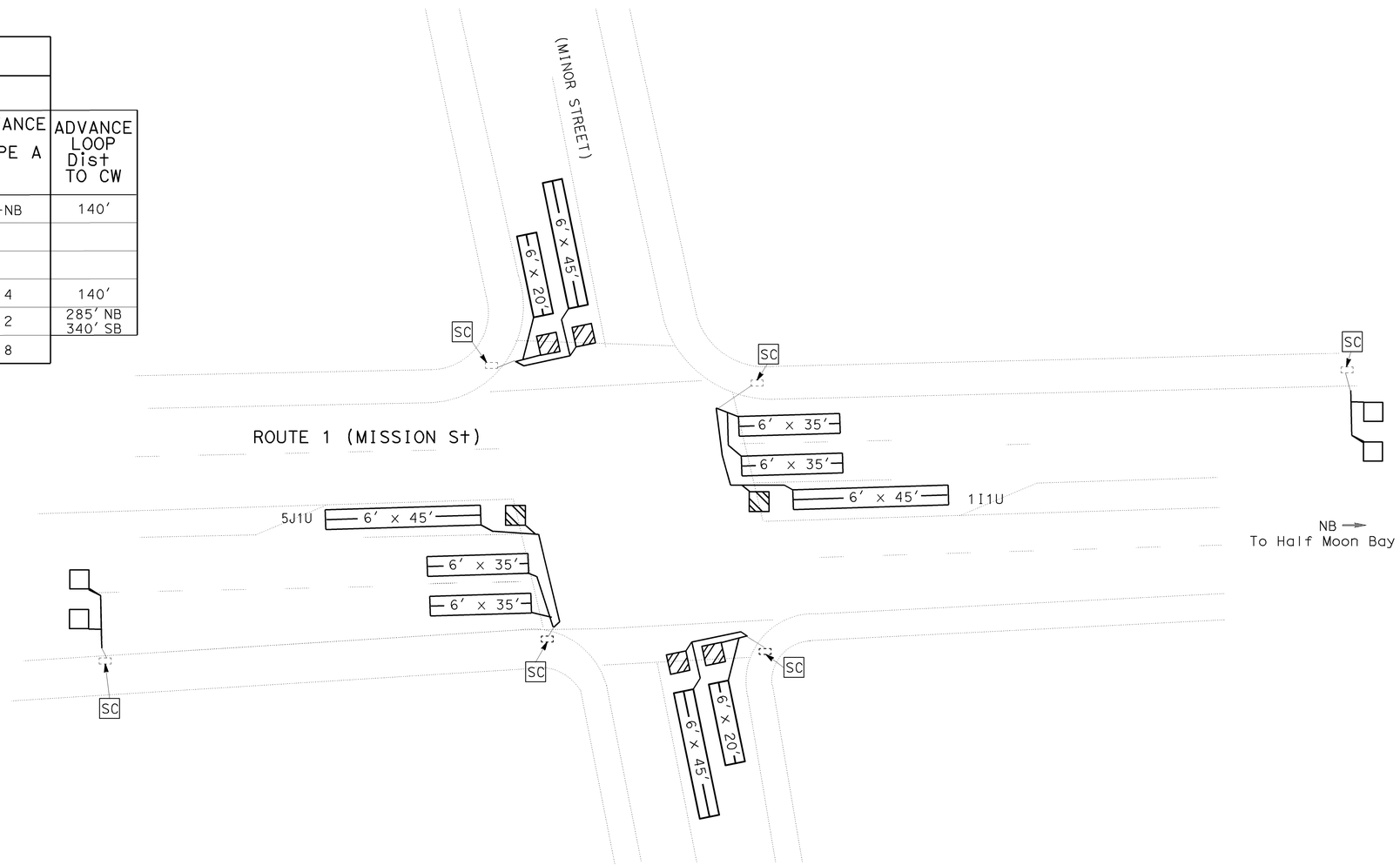


Typ DETECTOR LOOP ARRAY DETAIL

LOOP QUANTITIES

LOCATION		LOOPS EACH (N)					
		LIMIT LINE				ADVANCE	ADVANCE LOOP Dist TO CW
		TYPE D	TYPE C			TYPE A	
PM	MINOR STREET		45′	35′	20′		
18.26	UNION / KING St	2	1	4	1-UNION	2-NB	140′
18.50	WALNUT Ave	4	2	4	4		
18.73	LAUREL St	6	2	4	4		
19.00	BAY St	6	2	4	4	4	140′
20.09	WESTERN Dr	5	2	2	2	2	285′ NB 340′ SB
TOTAL		23	9	18	15	8	

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



TYPICAL INTERSECTION

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY SIGNAL
(PM 18.1 TO 20.2)

NO SCALE **E-1**

REVISED BY — DATE REVISED

KEN VOMASKE — JULIE M. GONZALEZ

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — JULIE M. GONZALEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC OPERATIONS

LAST REVISION 02-07-11 — DATE PLOTTED => 08-FEB-2011 — TIME PLOTTED => 12:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	1	17.5/20.2	7	11

REGISTERED ELECTRICAL ENGINEER — DATE 2-7-11

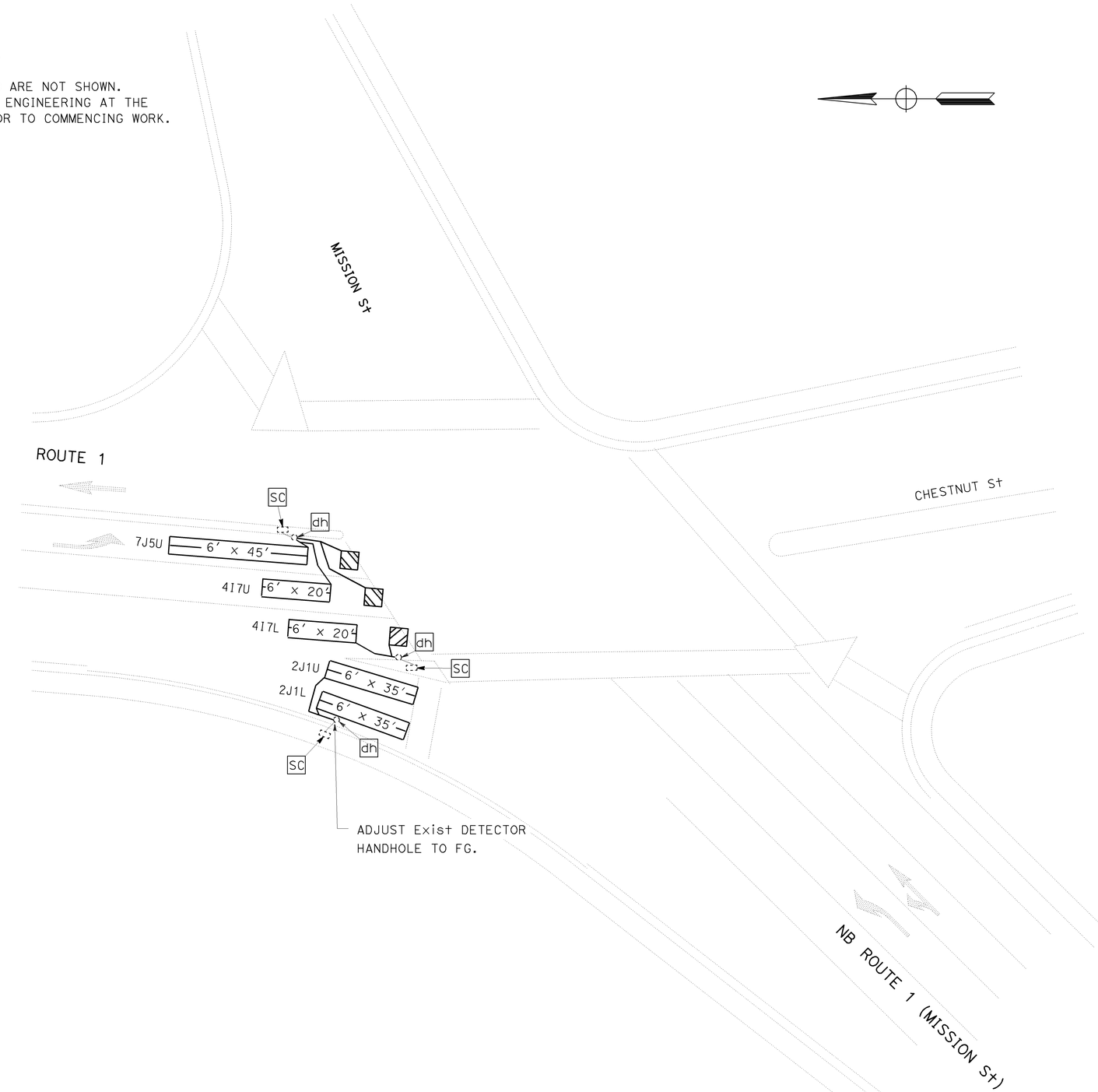
2-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K.J.VOMASKE No. 15720 Exp. 6-30-12 ELECTRICAL 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 ADDITIONAL NOTES, REFER TO SHEET E-1.
2. RIGHT OF WAY LIMITS ARE INDETERMINATE AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY SIGNAL
(CHESTNUT St)

NO SCALE **E-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

FUNCTIONAL SUPERVISOR: JULIE M. GONZALEZ
CALCULATED-DESIGNED BY: KEN VOMASKE
CHECKED BY: JULIE M. GONZALEZ
REVISED BY
DATE REVISED

LAST REVISION 02-07-11 | DATE PLOTTED => 08-FEB-2011 | TIME PLOTTED => 12:51

BORDER LAST REVISED 7/2/2010 | USERNAME => s118989 | DGN FILE => 0500000843ua002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1244 | PROJECT NUMBER & PHASE 05000008431

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SCr	1	17.5/20.2	8	11

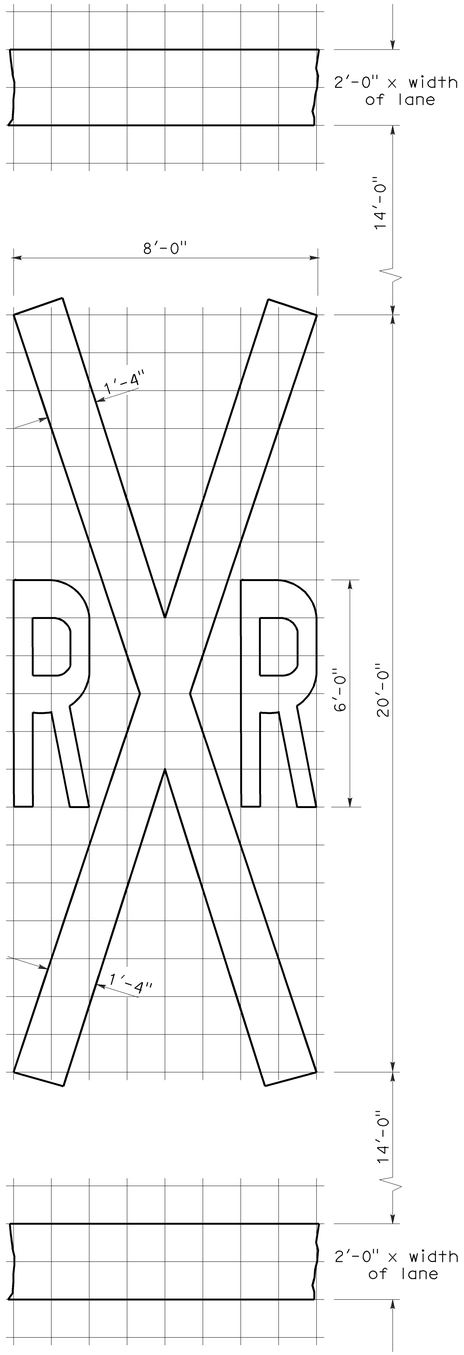
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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.

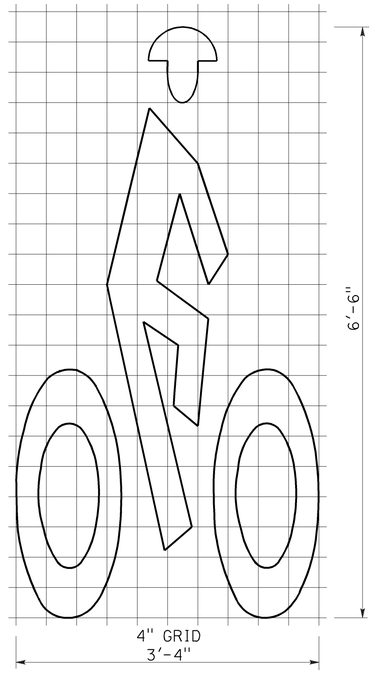
To accompany plans dated 2-7-11



1'-0" GRID
A=70 sq ft ✳

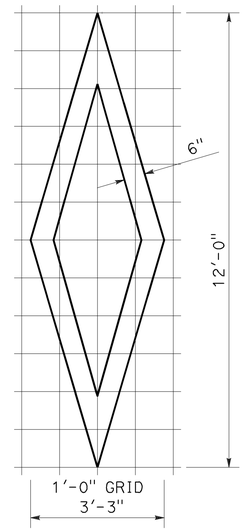
RAILROAD CROSSING SYMBOL

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



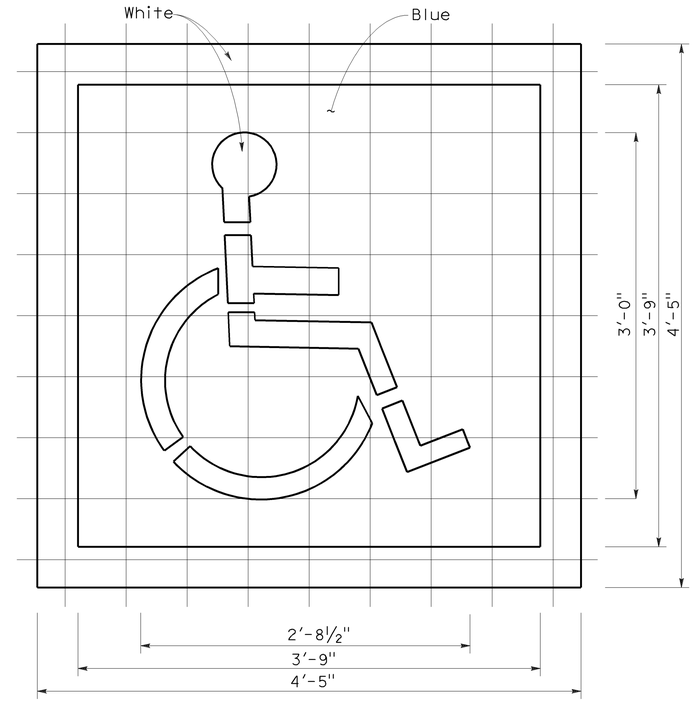
A=7 sq ft

BIKE LANE SYMBOL



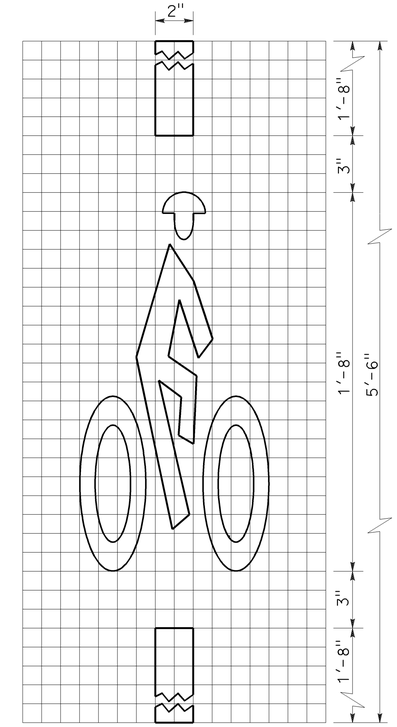
A=11 sq ft

DIAMOND SYMBOL



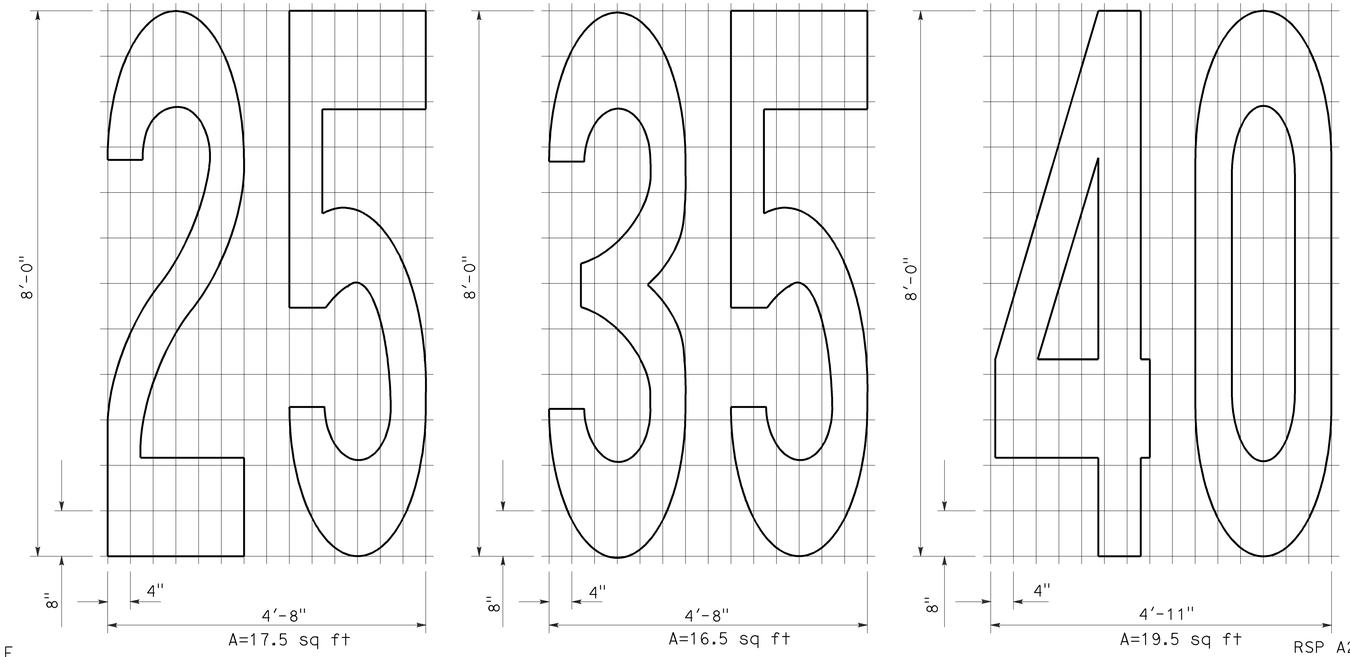
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

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
05	SCr	1	17.5/20.2	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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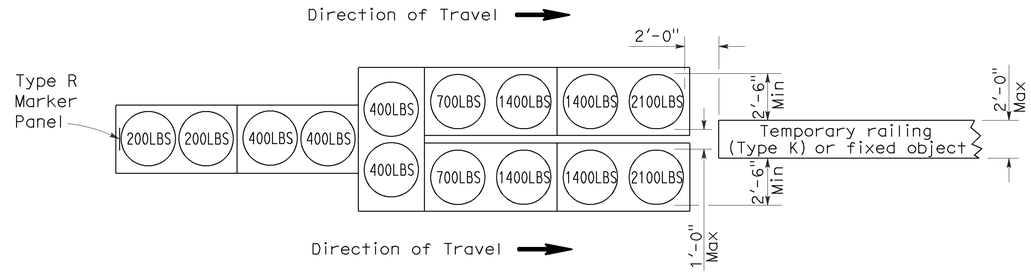
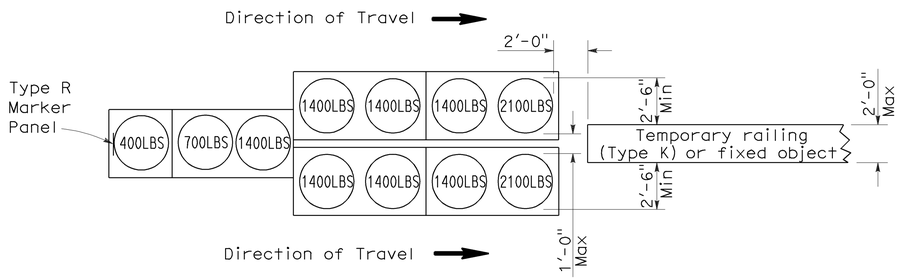
To accompany plans dated 2-7-11



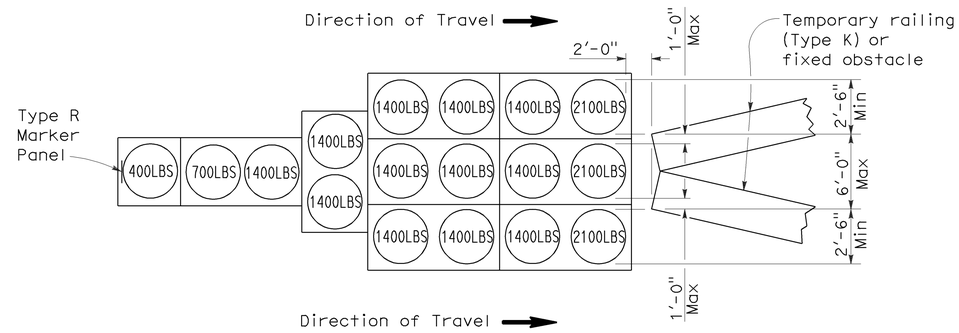
ARRAY 'TU14'

Approach speed 45 mph or more



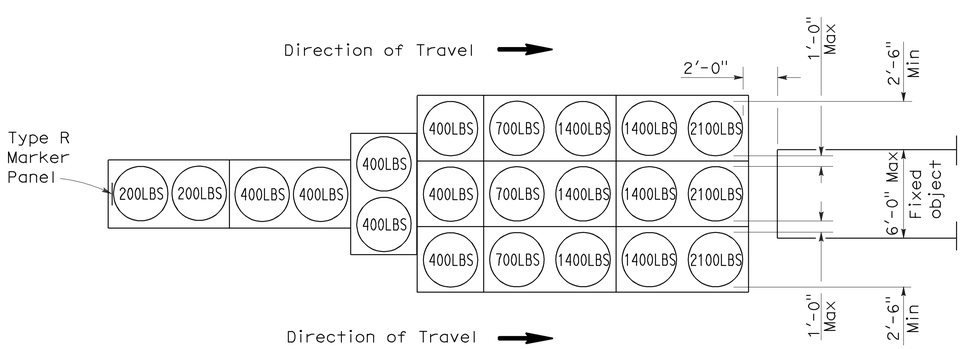
ARRAY 'TU11'

Approach speed less than 45 mph



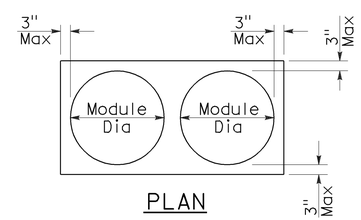
ARRAY 'TU17'

Approach speed less than 45 mph

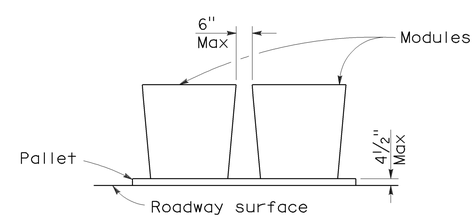


ARRAY 'TU21'

Approach speed 45 mph or more



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
05	SCr	1	17.5/20.2	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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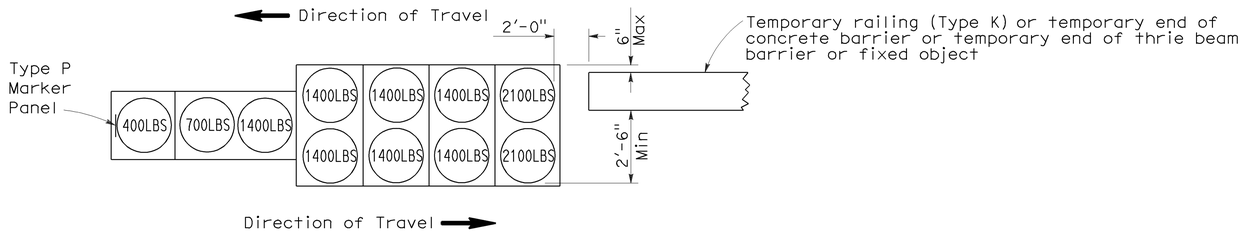
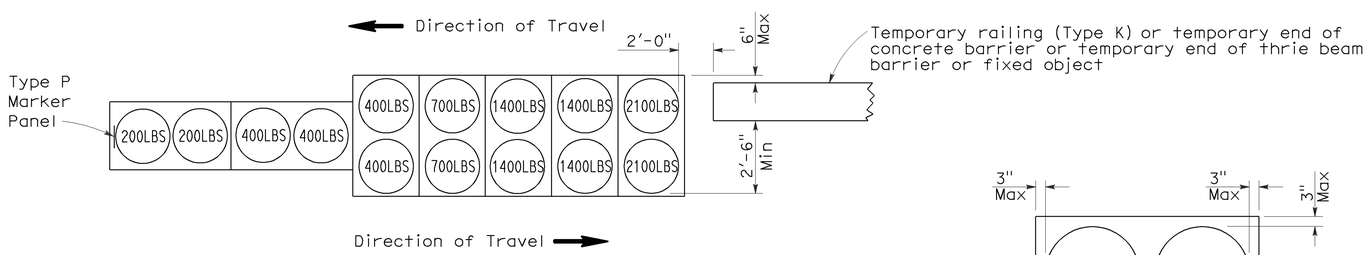
To accompany plans dated 2-7-11



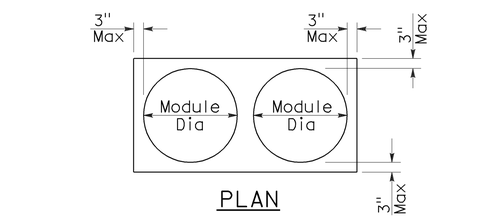
ARRAY 'TB11'

Approach speed less than 45 mph

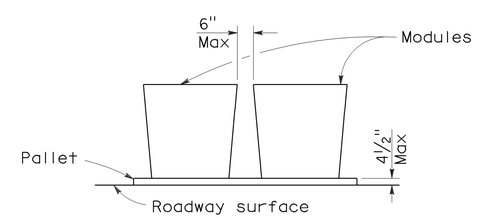


ARRAY 'TB14'

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
05	SCr	1	17.5/20.2	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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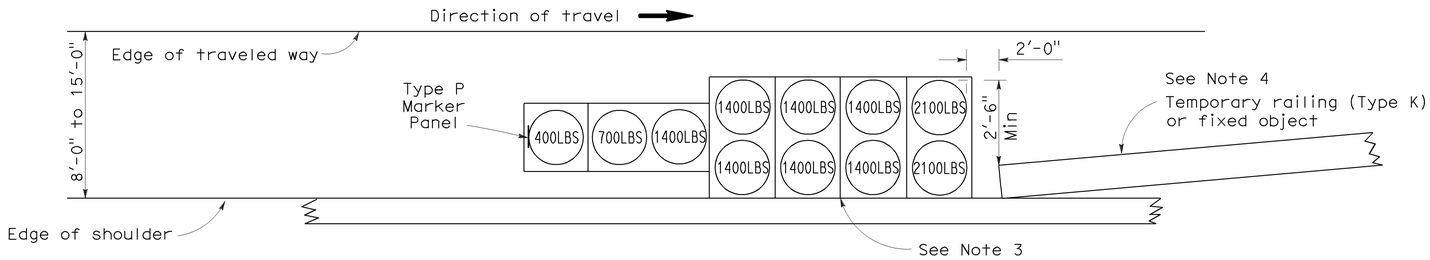
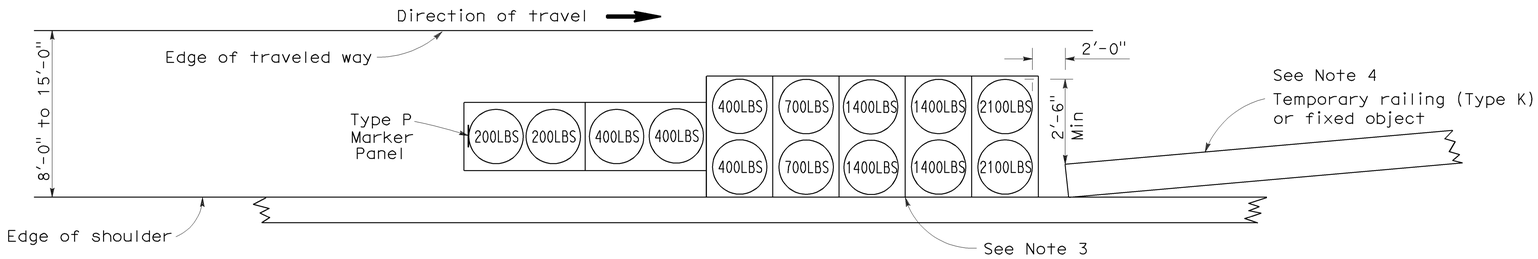
To accompany plans dated 2-7-11



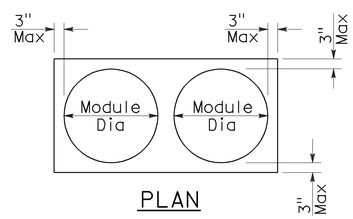
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

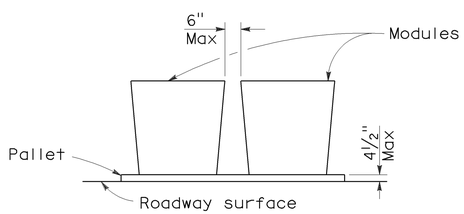


ARRAY 'TS14'

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