

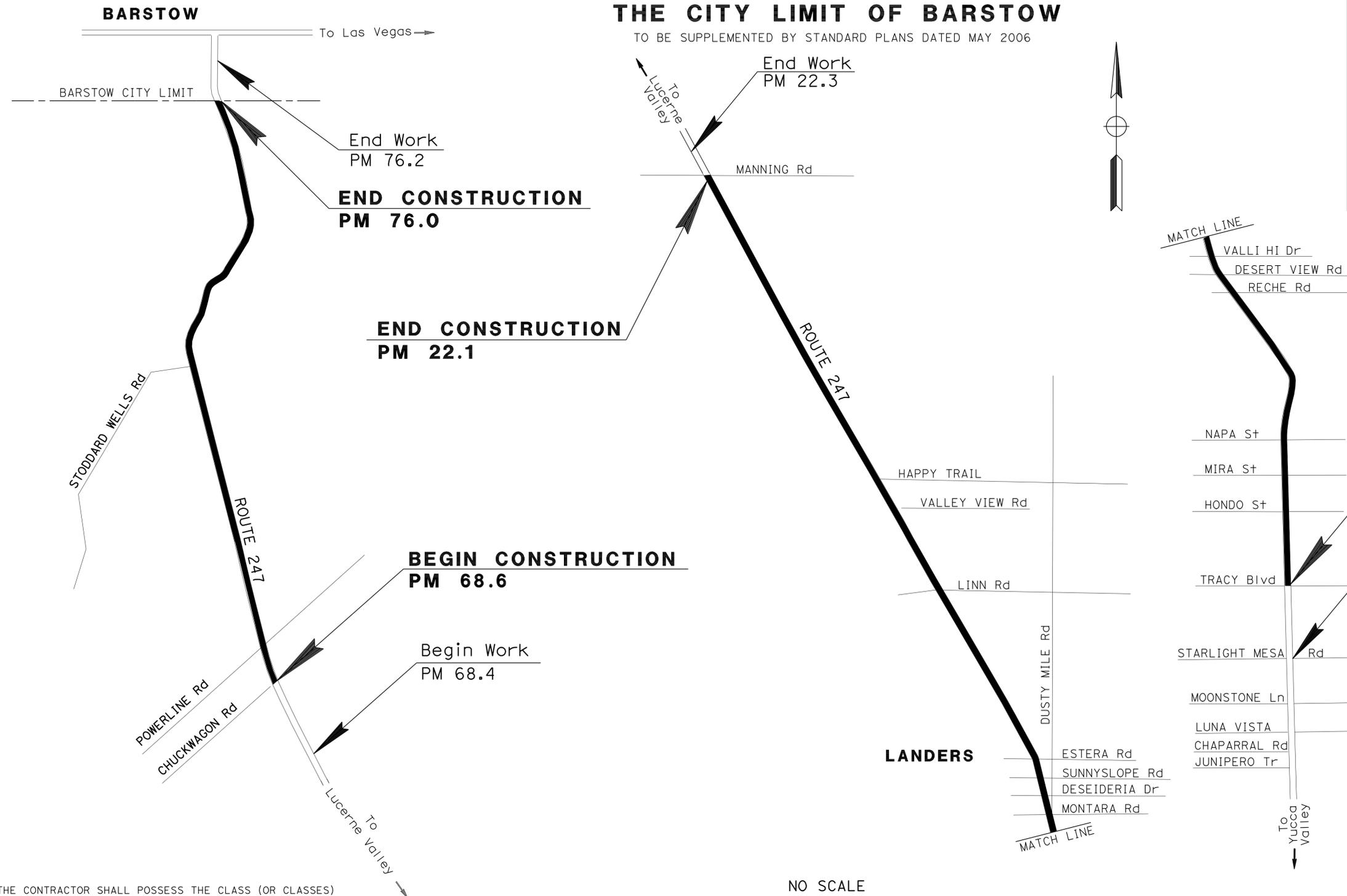
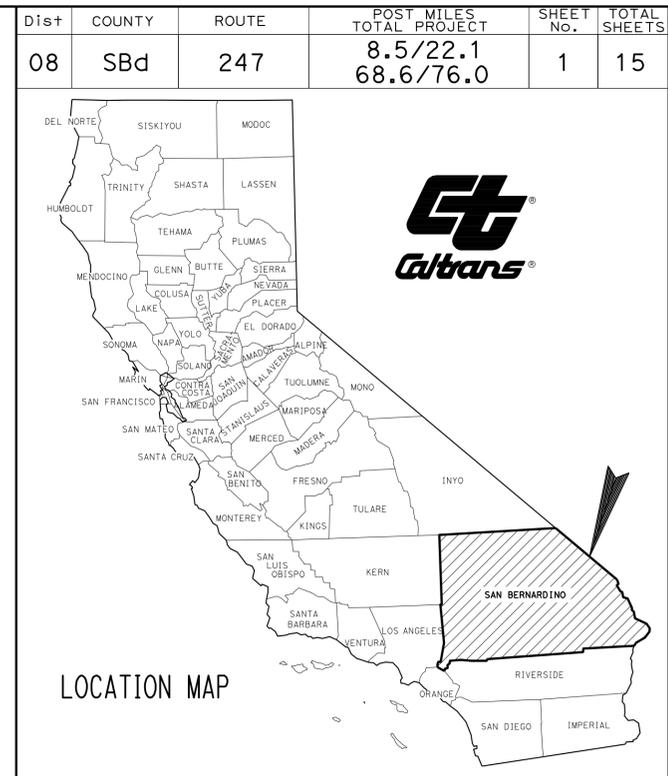
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-8	PAVEMENT DELINEATION QUANTITIES
9	SUMMARY OF QUANTITIES
10-15	REVISED AND NEW 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 SAN BERNARDINO COUNTY**  
**NEAR LANDERS**  
**FROM TRACY BOULEVARD TO MANNING ROAD**  
**AND FROM CHUCKWAGON ROAD TO**  
**THE CITY LIMIT OF BARSTOW**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT ENGINEER      DATE 2-23-12  
 REGISTERED CIVIL ENGINEER  
**March 19, 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.



CONTRACT No.	<b>08-0P9304</b>
PROJECT ID	<b>0800020189</b>

PROJECT MANAGER  
 CATALINO PINNING  
 DESIGN ENGINEER  
 HELENA MEKONNEN

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

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	2	15

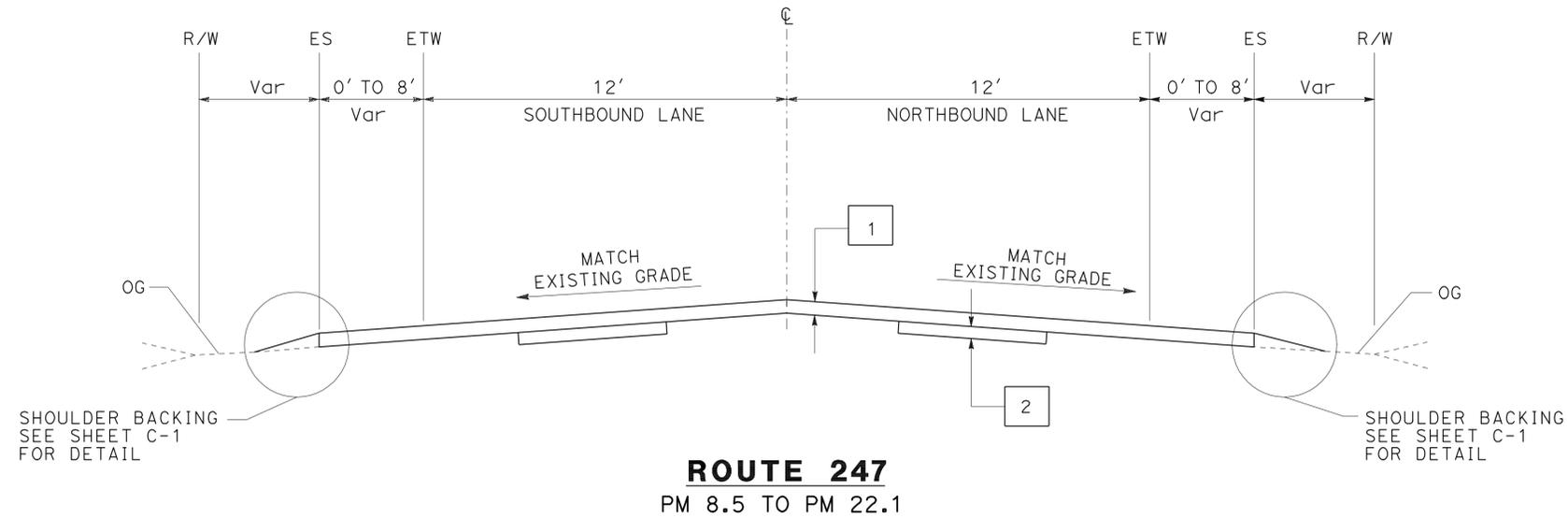
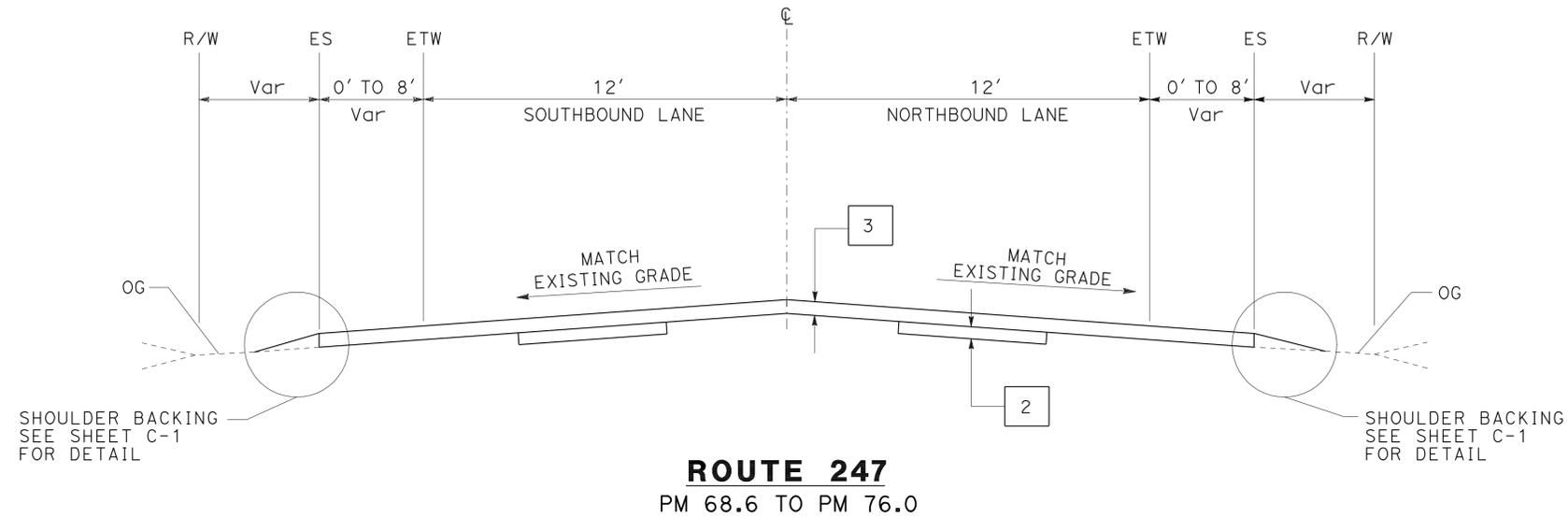
<i>Michael Ristic</i>	2-23-12
REGISTERED CIVIL ENGINEER	DATE
3-19-12	
PLANS APPROVAL DATE	

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.

**STRUCTURAL SECTION NOTES:**

- 1 0.10' COLD PLANE AC PAVEMENT  
0.20' HMA (TYPE A)
- 2 0.35' REPLACE ASPHALT CONCRETE SURFACING  
(SEE SHEET C-1) FOR DETAIL
- 3 0.20' HMA (TYPE A)



**TYPICAL CROSS SECTIONS**  
NO SCALE **X-1**

HELENA MEKONNEN	REVISOR
MICHAEL RISTIC	DATE
MICHAEL RISTIC	DESIGNED BY
MICHAEL RISTIC	CHECKED BY
MICHAEL RISTIC	FUNCTIONAL SUPERVISOR
<b>MAINTENANCE DESIGN</b>	DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b>	STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	3	15
			2-23-12	REGISTERED CIVIL ENGINEER DATE	
			3-19-12	PLANS APPROVAL DATE	
<small>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.</small>					

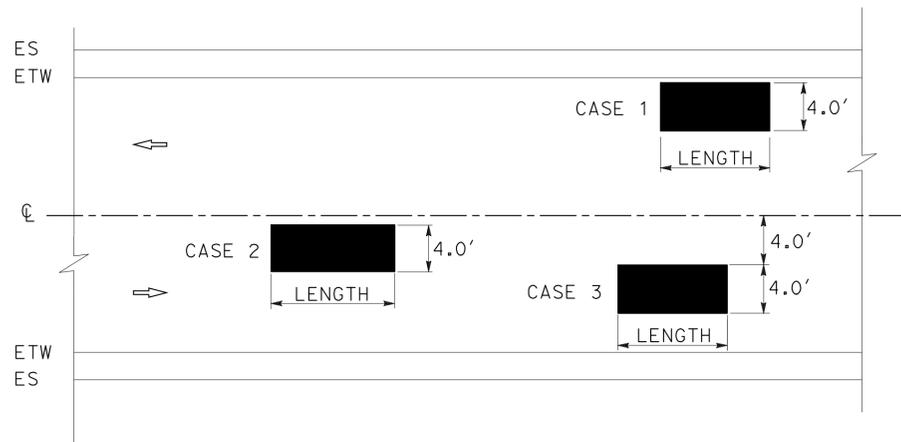


**NOTES:**

1. LENGTH OF REPLACE ASPHALT CONCRETE SURFACING WILL BE A MINIMUM OF 50' AND A MAXIMUM OF 1000', AND SHALL BE DETERMINED BY THE ENGINEER.
2. EXACT LOCATIONS AND DIMENSIONS OF LOCALIZED DIG- OUTS SHALL BE DETERMINED BY THE ENGINEER.

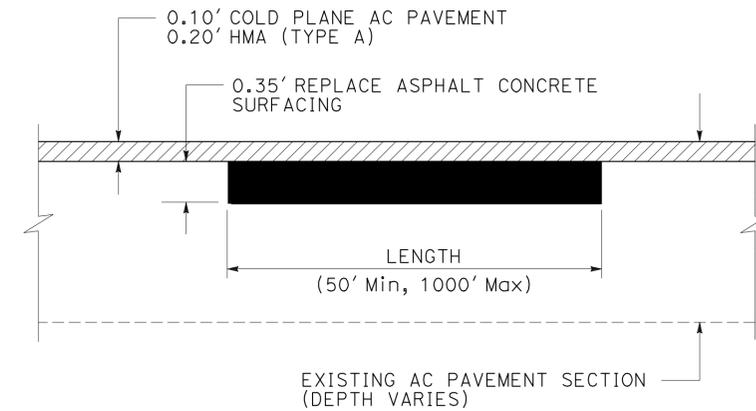
**LEGEND:**

- 0.10' COLD PLANE AC PAVEMENT  
0.20' HMA (TYPE A)
- 0.35' REPLACE ASPHALT CONCRETE SURFACING
- DIRECTION OF TRAVEL

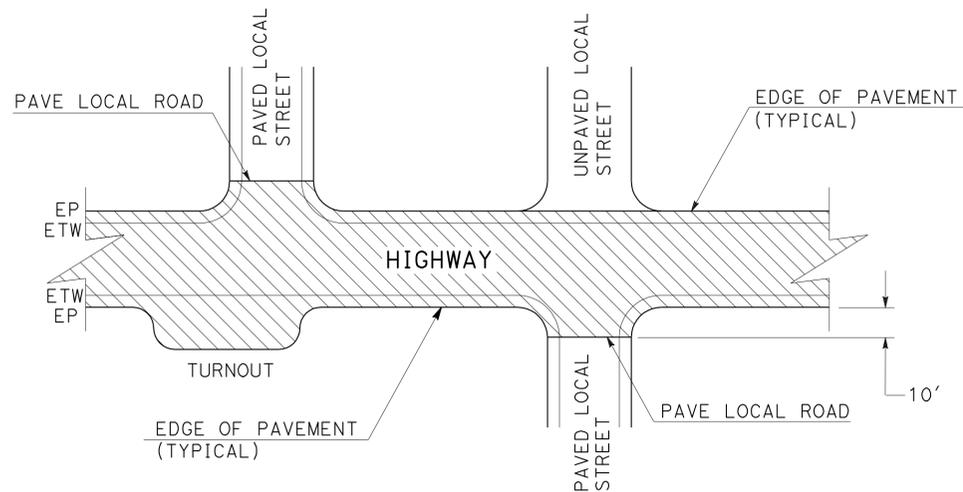


**TYPICAL REPLACE ASPHALT CONCRETE SURFACING (LAYOUT)**

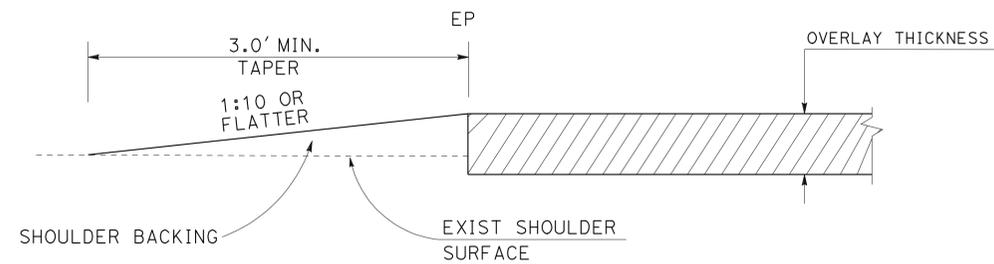
- CASE 1: RIGHT WHEEL TRACK (R)
- CASE 2: LEFT WHEEL TRACK (L)
- CASE 3: CENTER OF TRAVEL WAY (C)



**REPLACE ASPHALT CONCRETE SURFACING (PROFILE)**



**PAVING LIMITS OF WORK**



**SHOULDER BACKING**

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
HELENA MEKONNEN  
MICHAEL RISTIC  
REVISOR: HELENA MEKONNEN  
DATE: [blank]  
REVISOR: MICHAEL RISTIC  
DATE: [blank]  
DESIGNER: [blank]  
CHECKER: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	4	15

REGISTERED CIVIL ENGINEER DATE 2-23-12  
 3-19-12  
 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.

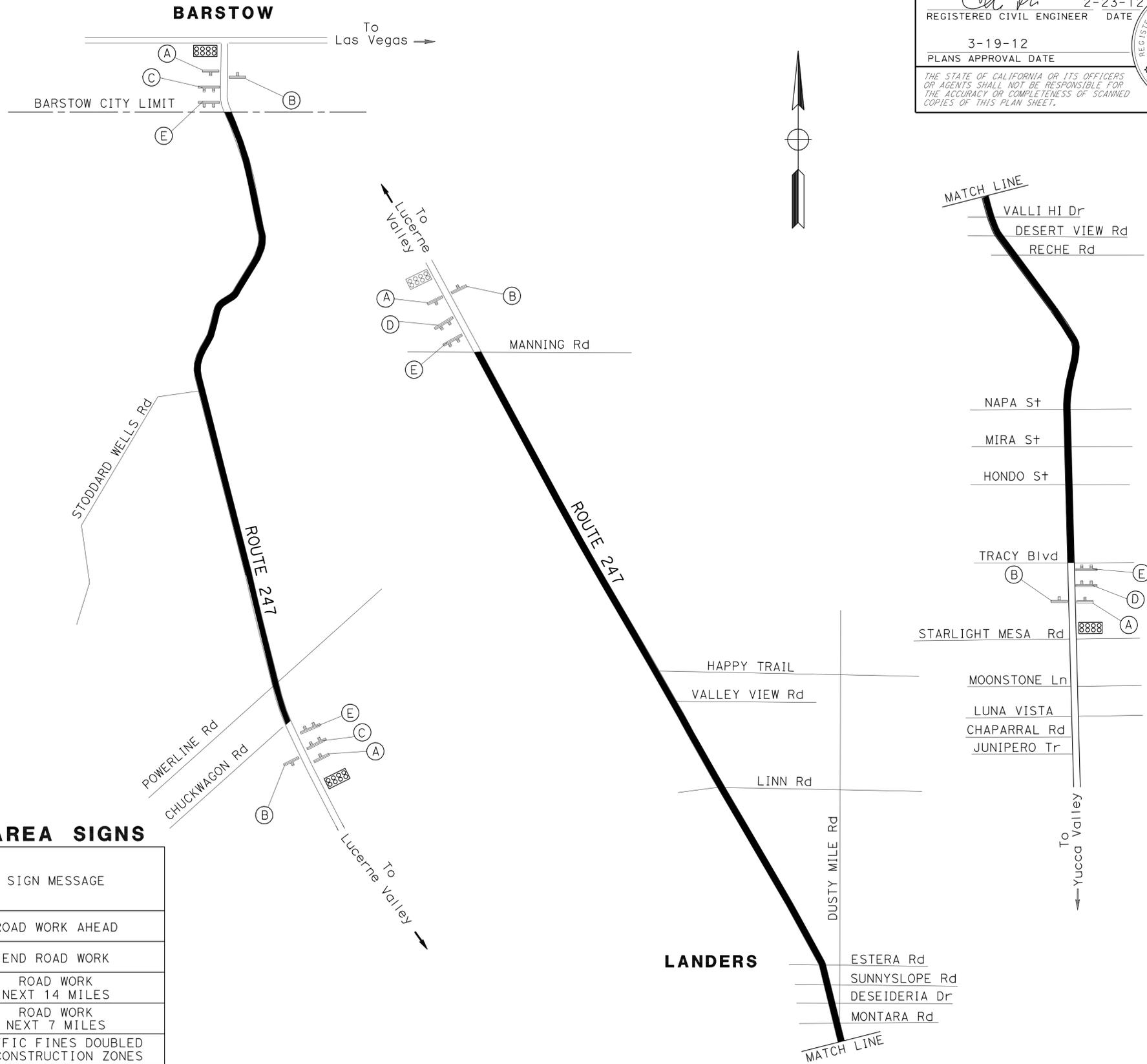
REGISTERED PROFESSIONAL ENGINEER  
 CHRIS HARDIMON  
 No. 66092  
 Exp. 6-30-12  
 CIVIL

**NOTES:**

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. EXACT LOCATIONS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WILL BE DETERMINED BY THE ENGINEER.
3. USE REVERSIBLE TRAFFIC CONTROL WITH STD PLAN T13 FOR TRAFFIC CONTROL.

**LEGEND:**

- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- CONSTRUCTION AREA
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION AREA SIGN LETTER



**PORTABLE CHANGEABLE MESSAGE SIGNS**

EA
4

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No. (X)	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	W20-1	36" x 36"	1 - 4" x 6"	4	ROAD WORK AHEAD
B	C14 (CA)	48" x 24"	1 - 4" x 6"	4	END ROAD WORK
C	C11 (CA)	60" x 36"	2 - 4" x 6"	2	ROAD WORK NEXT 14 MILES
D	C11 (CA)	60" x 36"	2 - 4" x 6"	2	ROAD WORK NEXT 7 MILES
E	C40 (CA)	72" x 36"	2 - 4" x 6"	4	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES

**CONSTRUCTION AREA SIGNS**  
NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



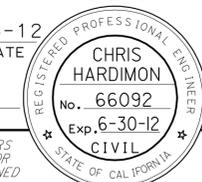
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans® TRAFFIC DESIGN B  
 LARRY SARTORI  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 J. WILLIAM  
 CHRIS HARDIMON  
 REVISOR BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	5	15

 2-23-12  
 REGISTERED CIVIL ENGINEER DATE

3-19-12  
 PLANS APPROVAL DATE

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

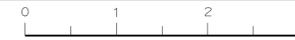


### PAVEMENT DELINEATION QUANTITIES

DETAIL No.	POST MILE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKER  (RETROREFLECTIVE- RECESSED)			THERMOPLASTIC		
			4" YELLOW	4" WHITE	8" WHITE	TYPE D	TYPE G	TYPE H	PAVEMENT MARKING	REMOVE PAVEMENT MARKING	
			EA	LF	LF	LF	EA	EA	EA	SQFT	SQFT
27B	8.50 TO 22.10			143616							
19	8.50 TO 8.60	33	528		11		22				
6	8.60 TO 8.77	19	898		19						
19	8.77 TO 8.91	48	739		16		32				
22	8.91 TO 8.92	8	53		8						
29	8.92 TO 8.97	24	528		24						
22	8.97 TO 9.06	40	475		40						
38	9.00 TO 9.06	14				14					
29	9.06 TO 9.13	32	739		32						
38	9.06 TO 9.13	16				16					
22	9.13 TO 9.16	16	158		16						
29	9.16 TO 9.24	19	845		19						
22	9.24 TO 9.27	16	158		16						
22	9.28 TO 9.58	136	1584		136						
38	9.28 TO 9.30	5				5					
37B	9.30 TO 9.32	8				8					
19	9.58 TO 9.84	87	1373		29		58				
22	9.84 TO 9.96	56	637		56						
19	9.96 TO 10.15	63	1003		21		42				
6	10.15 TO 10.22	8	370		8						
22	10.22 TO 10.72	220	2640		220						
19	10.72 TO 10.96	81	1267		27		54				
SUBTOTAL		949	10035	143616	899	698	43	208			
SHEET TOTAL		949	154550			949					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 J. WILLIAM  
 CHRIS HARDIMON  
 LARRY SARTORI  
 FUNCTIONAL SUPERVISOR  
 CALCULATED-  
 DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

### PAVEMENT DELINEATION QUANTITIES PDQ-1





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	7	15

*Ch. H.* 2-23-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-19-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**CHRIS HARDIMON**  
 No. 66092  
 Exp. 6-30-12  
 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

DETAIL No.	POST MILE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKER  (RETROREFLECTIVE- RECESSED)			THERMOPLASTIC	
			4" YELLOW	4" WHITE	8" WHITE	TYPE D	TYPE G	TYPE H	PAVEMENT MARKING	REMOVE PAVEMENT MARKING
			EA	LF	LF	EA	EA	EA	SQFT	SQFT
19	18.49 TO 18.68	63	1003			21		42		
6	18.68 TO 18.97	32	1531			32				
19	18.97 TO 19.38	138	2165			46		92		
6	19.38 TO 19.42	5	211			5				
19	19.42 TO 19.63	72	1109			24		48		
22	19.63 TO 20.06	192	2270			192				
19	20.06 TO 20.23	57	898			19		38		
6	20.23 TO 22.10	206	9874			206				
TYPE IV (L) ARROW (3)	9.00 TO 9.28								45	45
27B	68.60 TO 76.00			78144						
6	68.60 TO 73.20	507	24288			507				
22	73.20 TO 73.27	32	370			32				
19	73.27 TO 73.50	78	1214			26		52		
22	73.50 TO 73.58	36	422			36				
29	73.58 TO 74.71	500	11933			500				
CHEVERON	74.59 TO 74.71									
TYPE IV ARROW (R) (2)	74.65 TO 74.71								30	30
38	74.65 TO 74.71	14			317		14			
22	74.73 TO 74.78	24	264			24				
TYPE VI ARROW (2)	74.73 TO 74.77								84	84
29	74.78 TO 74.87	40	950			40				
6	74.87 TO 75.18	35	1637			35				
SUBTOTAL		2031	60139	78144	317	1745	14	272	159	159
SHEET TOTAL		2031	138600			2031			159	159

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 LARRY SARTORI  
 J. WILLIAM  
 CHRIS HARDIMON  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

## PAVEMENT DELINEATION QUANTITIES

NO SCALE

### PDQ-3

LAST REVISION DATE PLOTTED => 20-MAR-2012  
 02-23-12 TIME PLOTTED => 14:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	8	15

*Ch. H.* 2-23-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-19-12  
 PLANS APPROVAL DATE

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**PAVEMENT DELINEATION QUANTITIES**

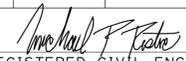
DETAIL No.	POST MILE	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKER  (RETROREFLECTIVE- RECESSED)			THERMOPLASTIC	
			4" YELLOW	4" WHITE	8" WHITE	TYPE D	TYPE G	TYPE H	PAVEMENT MARKING	REMOVE PAVEMENT MARKING
			EA	LF	LF	LF	EA	EA	EA	SQFT
19	75.18 TO 75.35	57	898			19		38		
22	75.35 TO 75.64	128	1531			128				
19	75.64 TO 75.86	75	1162			25		50		
6	75.86 TO 76.00	16	739			16				
SUBTOTAL		276	4330			188		88		
SHEET TOTAL		276	4330			276				
TOTAL		5156	336552			5156			159	159

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 J. WILLIAM  
 CHRIS HARDIMON  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 FUNCTIONAL SUPERVISOR  
 LARRY SARTORI

**PAVEMENT DELINEATION QUANTITIES**  
 NO SCALE  
**PDQ-4**

LAST REVISION | DATE PLOTTED => 20-MAR-2012  
 02-23-12 | TIME PLOTTED => 14:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	9	15

 2-29-12  
 REGISTERED CIVIL ENGINEER DATE

3-19-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL RISTIC  
 No. 69428  
 Exp. 6-30-12  
 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.

### REPLACE AC SURFACING

LOCATION		CY		
PM	DIRECTION	LEFT	CENTER	RIGHT
8.5/12.0	NB	20		20
	SB	50	20	20
12.0/14.0	NB	50	20	50
	SB	50		20
14.0/18.0	NB	50	30	50
	SB	50	30	50
20.0/22.1	NB	300	100	300
	SB	350	150	400
68.6/70.0	SB	190	20	190
70.0/72.0	NB	50		50
	SB	100	20	120
72.0/74.5	NB	20		50
	SB	100		80
74.5/76.0	NB	20		20
	SB	50	50	50
TOTAL		3360		

### PAVEMENT QUANTITIES

PM	WIDTH (N)	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIXED ASPHALT (TYPE A)	TACK COAT	SHOULDER BACKING
	LF	SQYD	TON	TON	TON
8.50/10.0	40	35200	4752	8	620
10.0/22.1	28	198763	26833	50	4982
68.60/76.0	28	0	16410	30	3048
TOTAL		233963	47995	88	8650

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

## SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 CALCULATED/DESIGNED BY: HELENA MEKONNEN  
 CHECKED BY: MICHAEL RISTIC  
 REVISED BY: HELENA MEKONNEN  
 DATE REVISED:

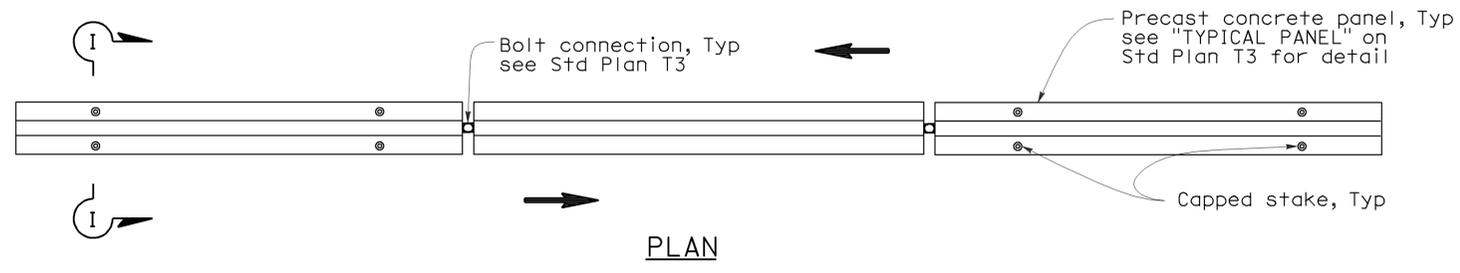
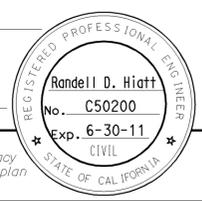
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	10	15

Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

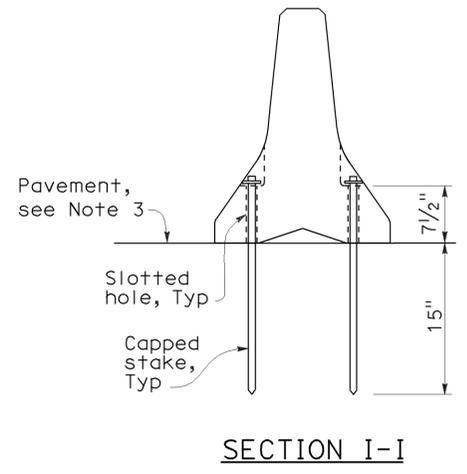
May 20, 2011  
PLANS APPROVAL DATE

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To accompany plans dated 3-19-12

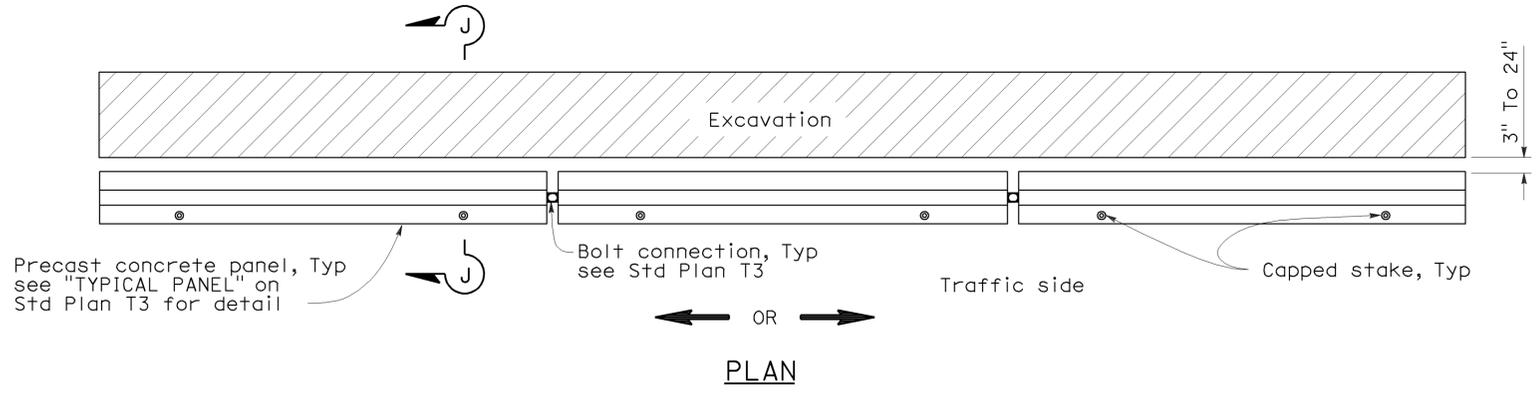


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

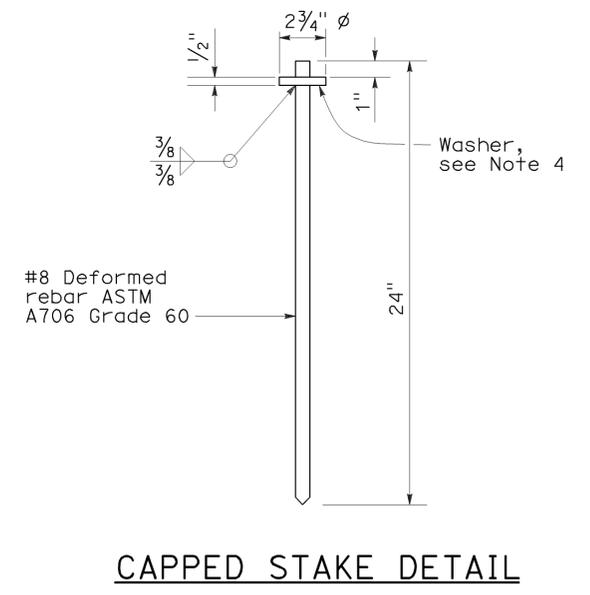
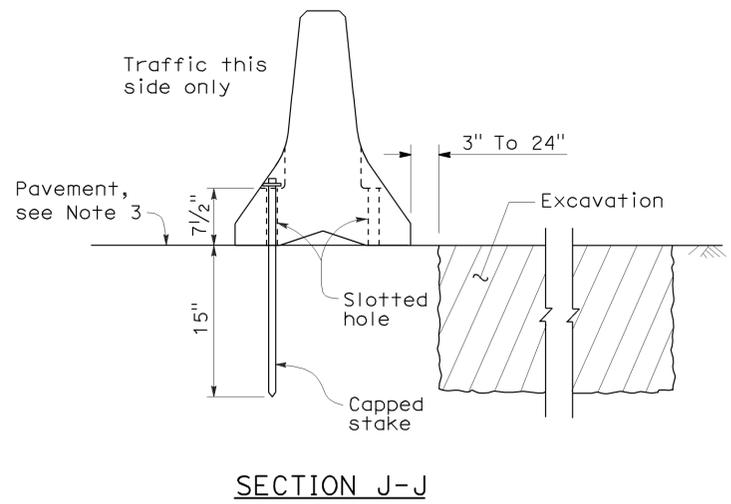


**NOTES:**

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  $\Rightarrow$ .



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**  
See Note 2



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.

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	11	15

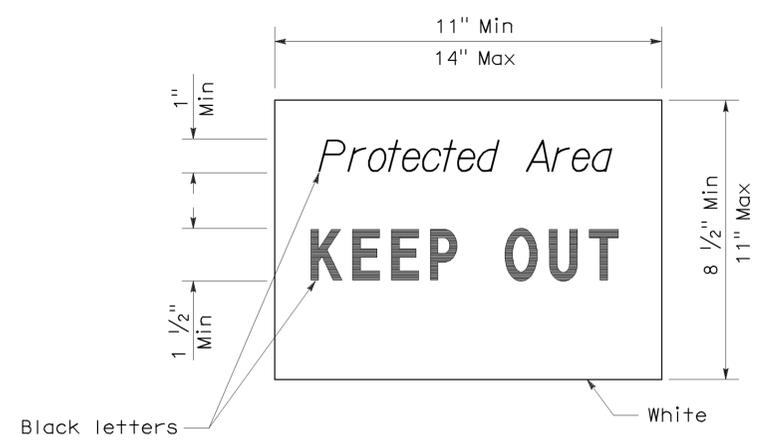
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT

April 3, 2009  
 PLANS APPROVAL DATE

*Robert B. Schott*  
 Signature  
 11-30-10  
 Renewal Date  
 2-25-09  
 Date

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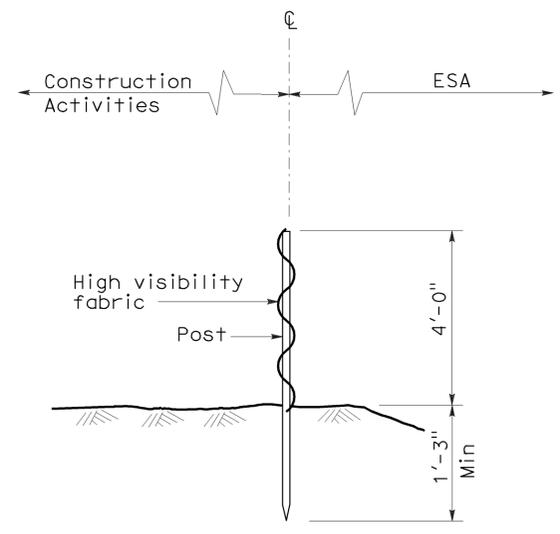
To accompany plans dated 3-19-12



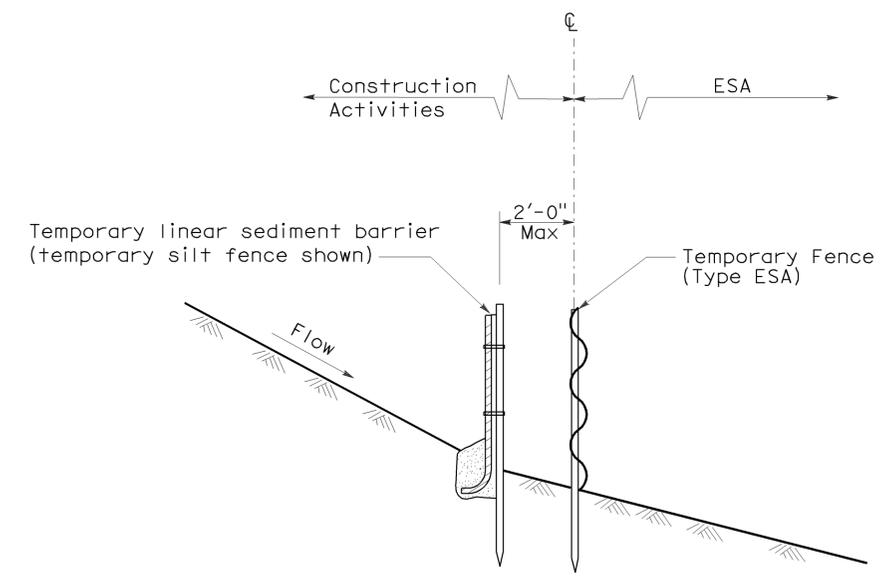
SIGN DETAIL

**NOTE:**

1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

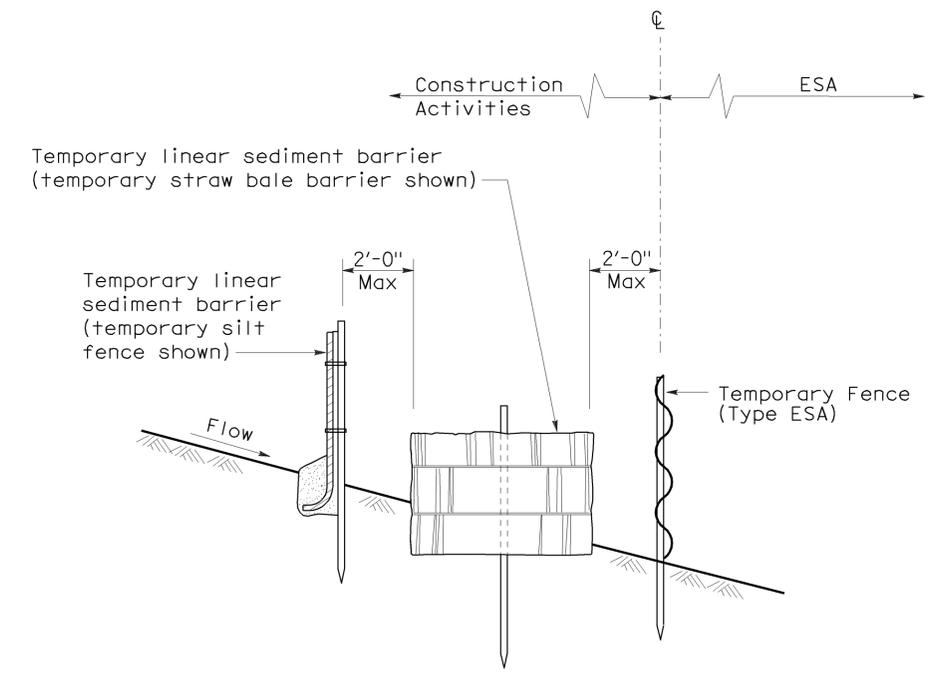


SECTION  
TEMPORARY FENCE (TYPE ESA)



SECTION  
PLACEMENT DETAIL  
FOR TEMPORARY LINEAR SEDIMENT BARRIER  
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)



SECTION  
PLACEMENT DETAIL  
FOR TEMPORARY SILT FENCE  
AND TEMPORARY STRAW BALE BARRIER  
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

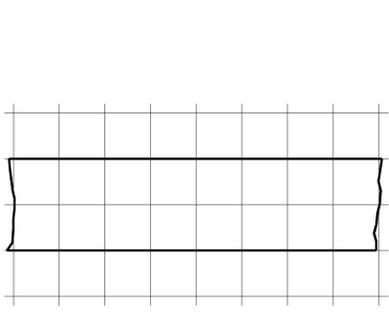
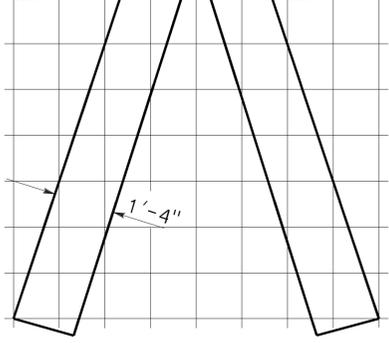
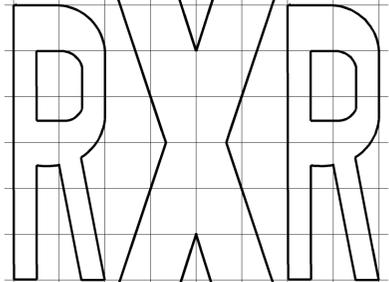
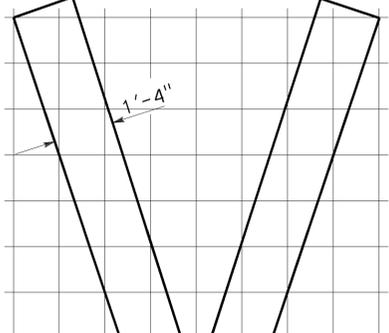
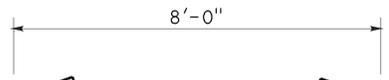
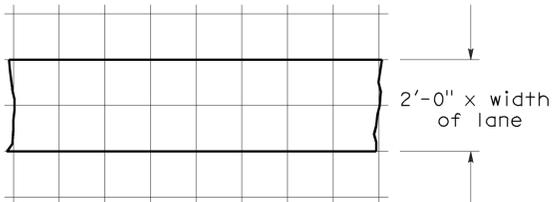
**TEMPORARY WATER POLLUTION CONTROL DETAILS**  
**[TEMPORARY FENCE (TYPE ESA)]**  
 NO SCALE

NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP T65**

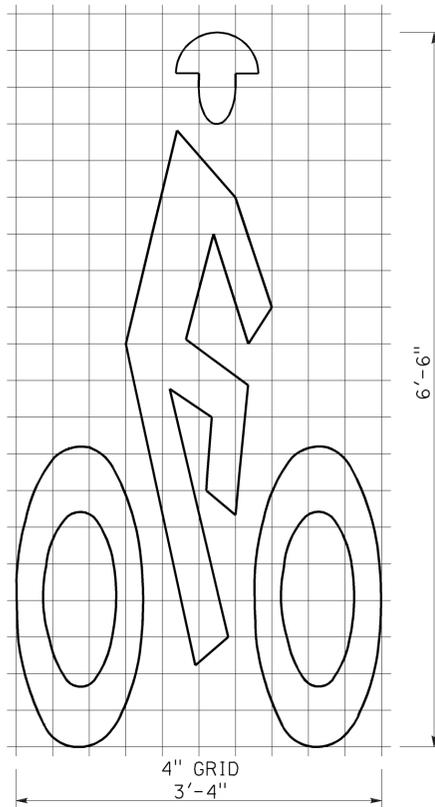
2006 NEW STANDARD PLAN NSP T65

To accompany plans dated 3-19-12

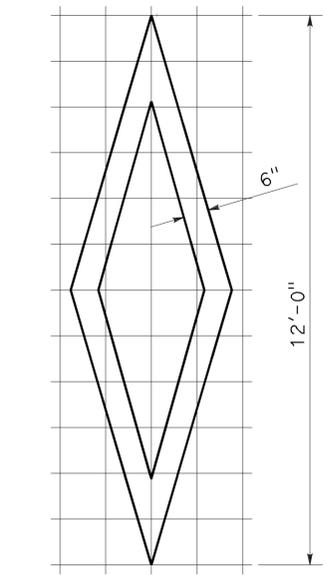


1'-0" GRID  
A=70 sq ft ✕  
**RAILROAD CROSSING SYMBOL**

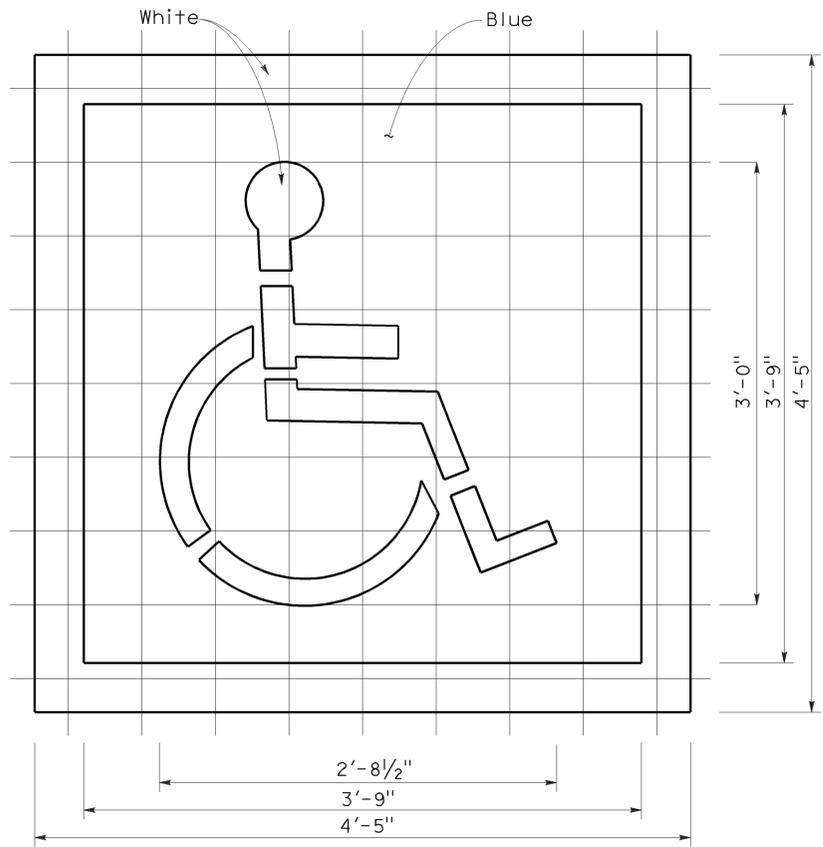
✕70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



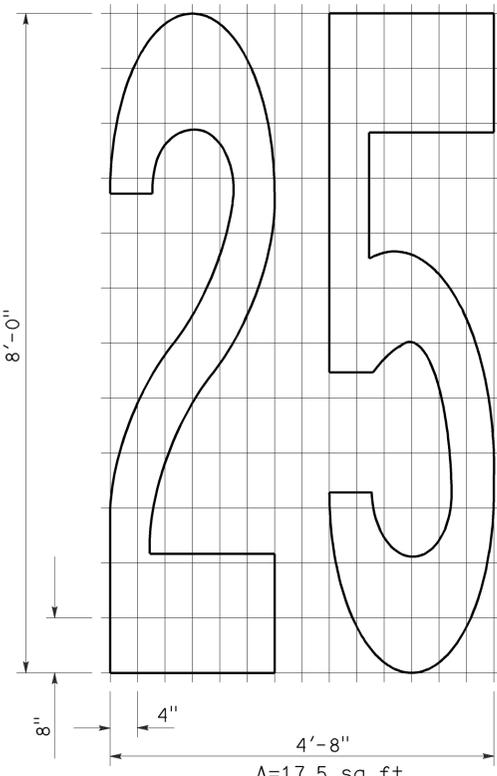
4" GRID  
3'-4"  
A=7 sq ft  
**BIKE LANE SYMBOL**



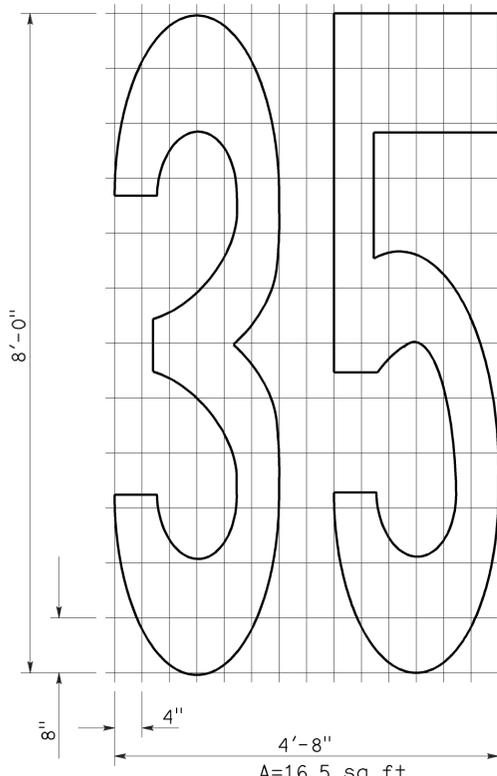
1'-0" GRID  
3'-3"  
A=11 sq ft  
**DIAMOND SYMBOL**



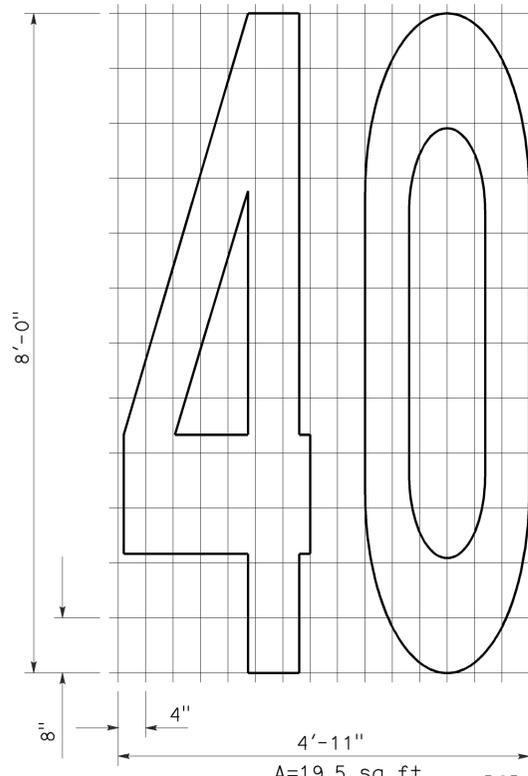
6" GRID  
A (White) = 9 sq ft  
A (Blue) = 14 sq ft  
**INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING**



8" 4" 4'-8"  
A=17.5 sq ft

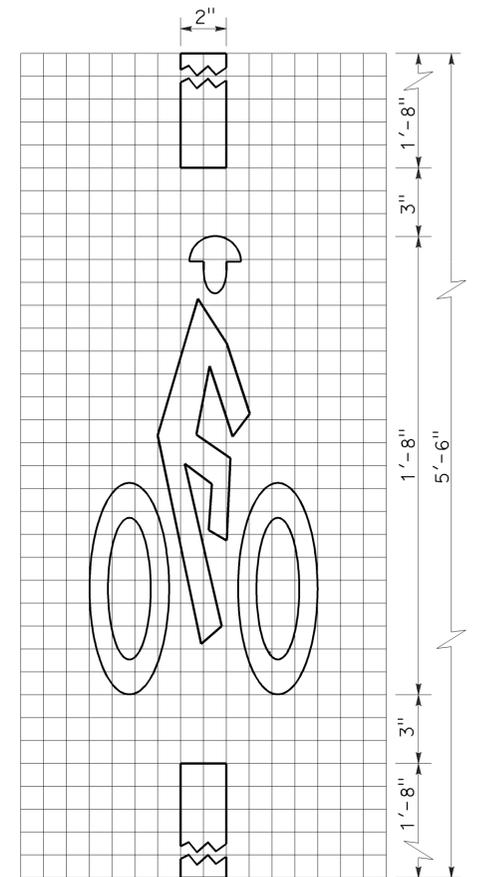


8" 4" 4'-8"  
A=16.5 sq ft



8" 4" 4'-11"  
A=19.5 sq ft

**NUMERALS**



1" GRID  
10"  
A=2 sq ft  
**BICYCLE LOOP DETECTOR SYMBOL**

**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.

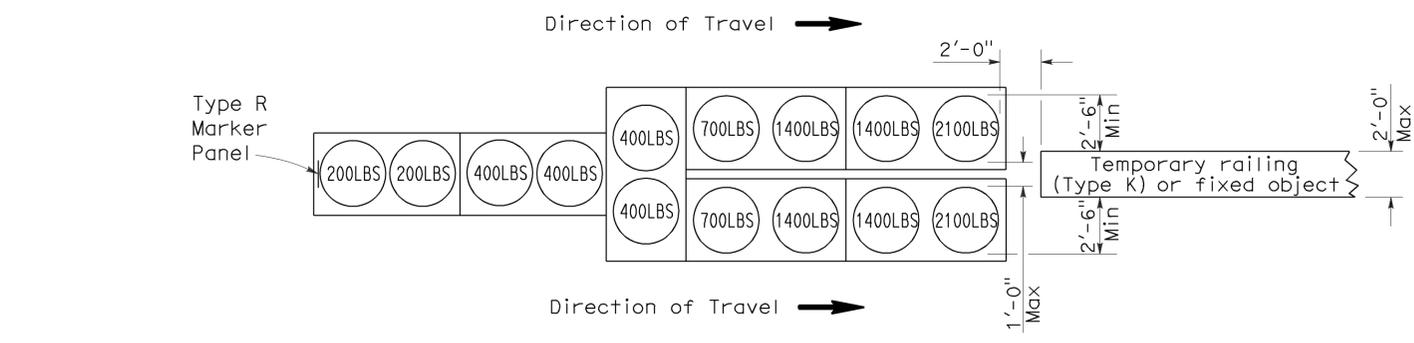
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	13	15

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

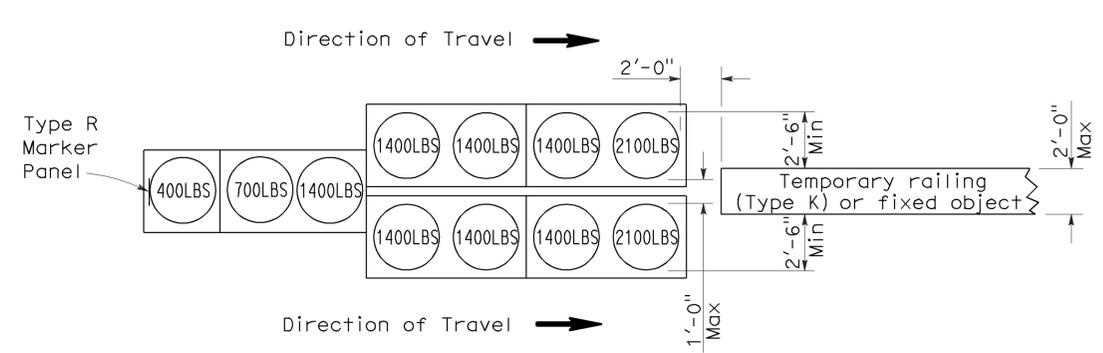
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 3-19-12



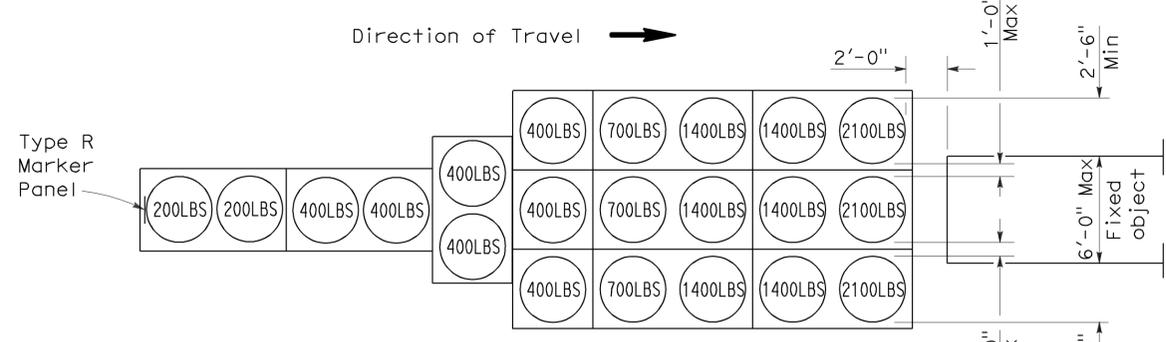
**ARRAY 'TU14'**

Approach speed 45 mph or more



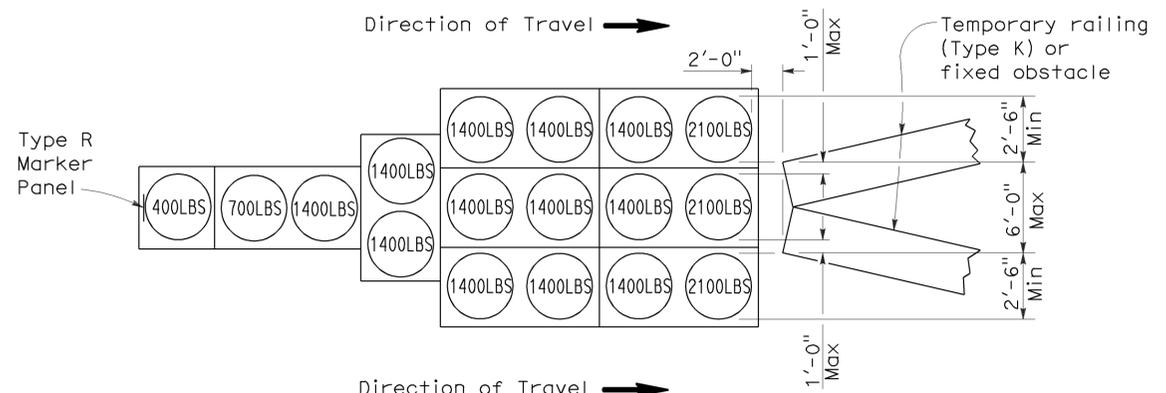
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more

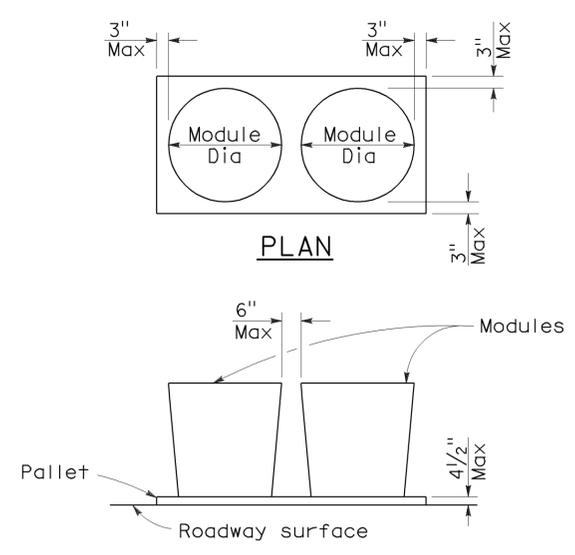


**ARRAY 'TU17'**

Approach speed less than 45 mph

**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.



**CRASH CUSHION PALLET DETAIL**  
See Note 7

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
08	SBd	247	8.5/22.1 68.6/76.0	14	15

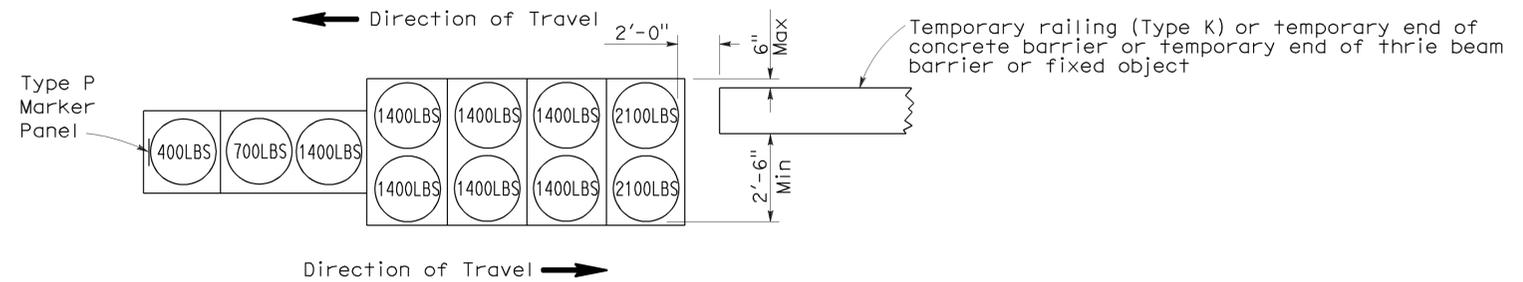
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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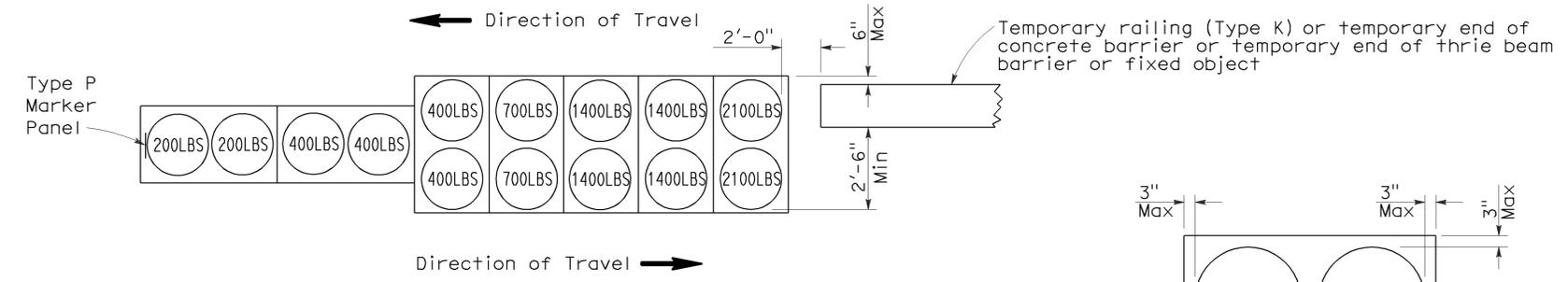
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 3-19-12



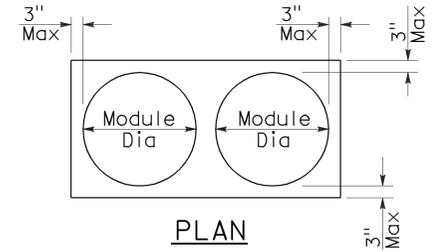
**ARRAY 'TB11'**

Approach speed less than 45 mph

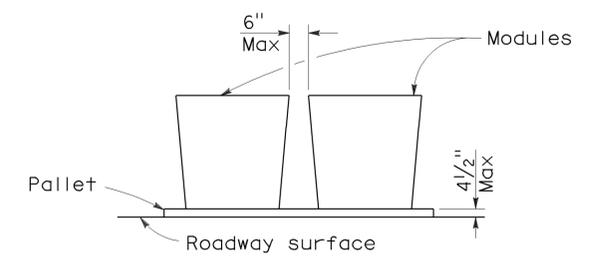


**ARRAY 'TB14'**

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

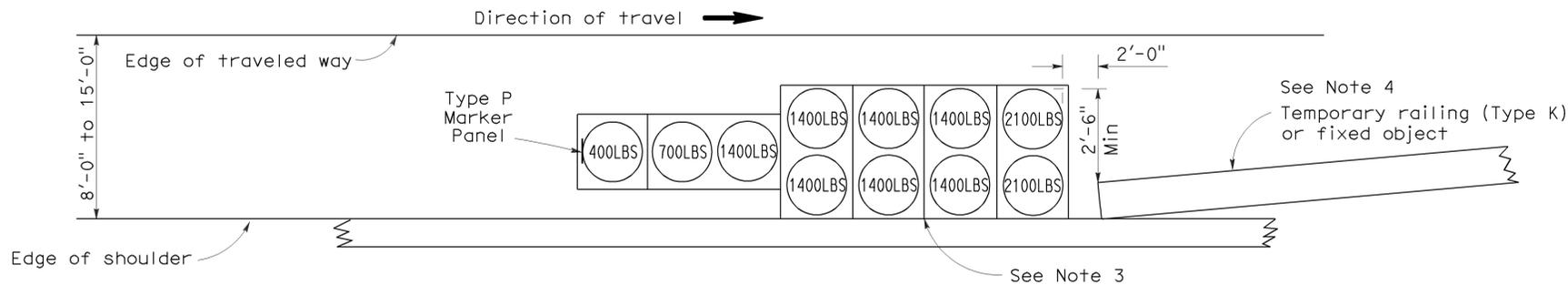
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	247	8.5/22.1 68.6/76.0	15	15

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

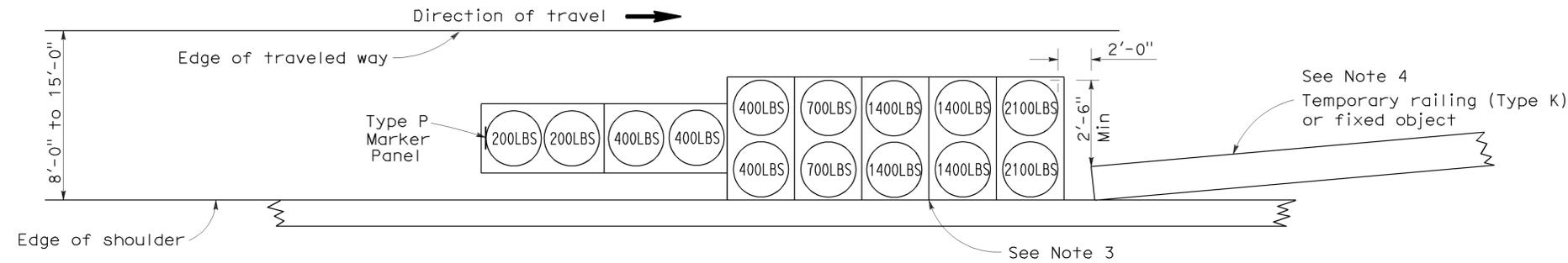
June 6, 2008  
PLANS APPROVAL DATE

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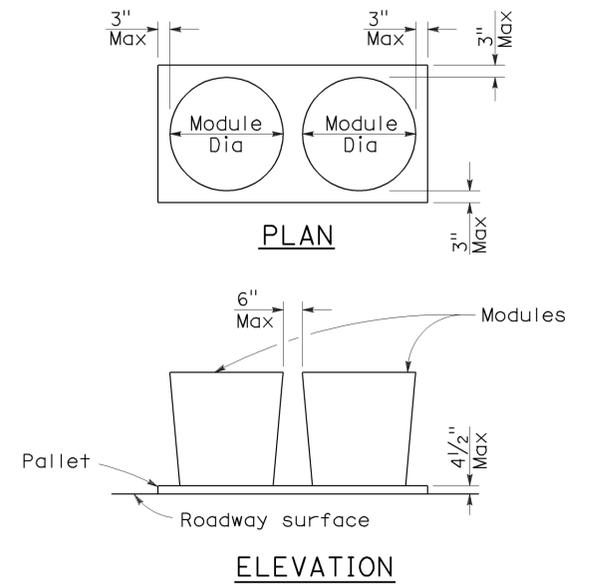
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA



**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- (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.
- All sand weights are nominal.
- 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.
- 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.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- 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.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- 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