Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	1	15

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-5	TRAFFIC HANDLING DETAILS
6-7	DETOUR PLAN AND CONSTRUCTION AREA SIGNS
8-12	REVISED STANDARD PLANS

STRUCTURE PLANS

13-15 VINCENT THOMAS BRIDGE

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

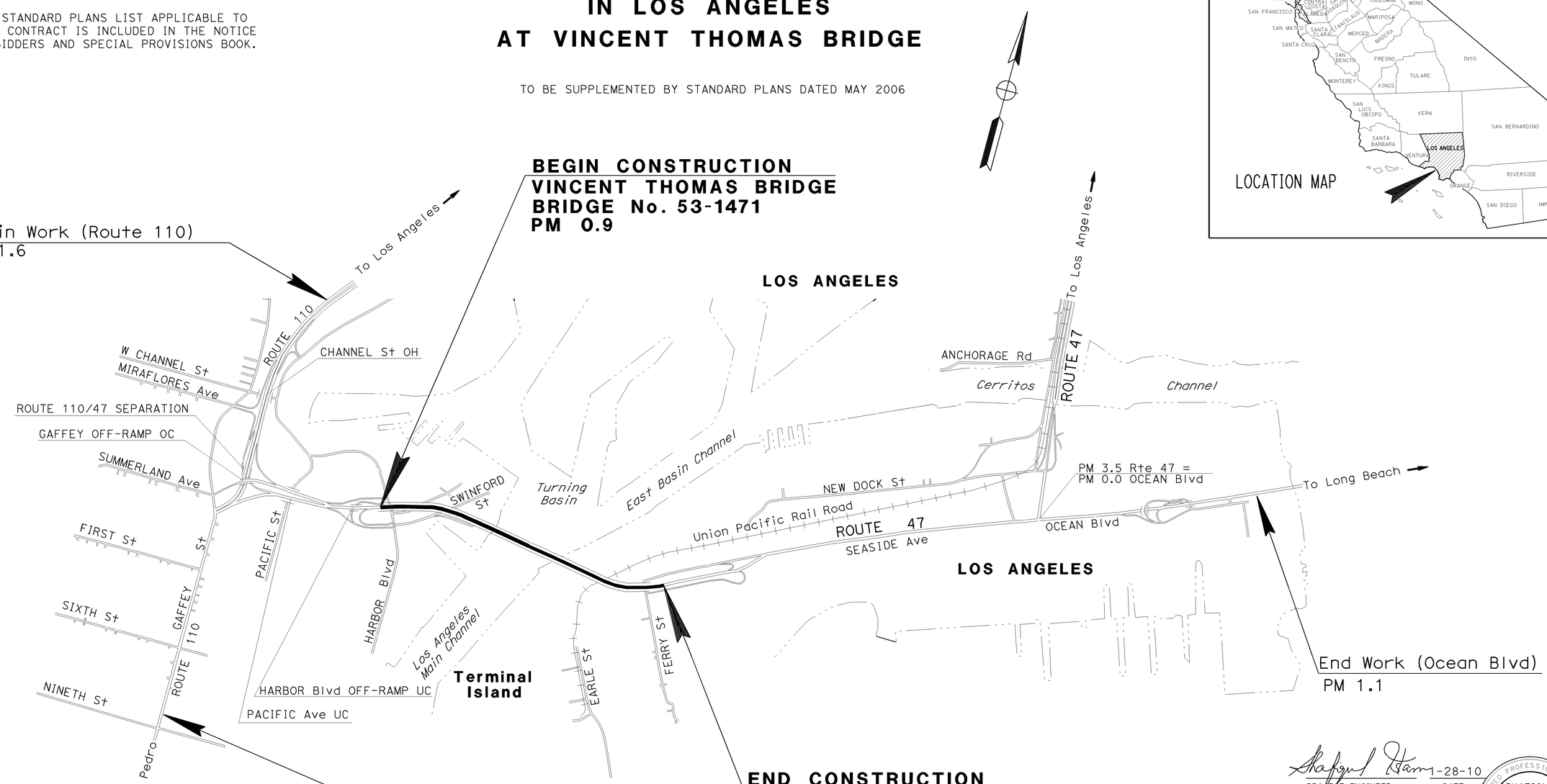
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN LOS ANGELES COUNTY
IN LOS ANGELES
AT VINCENT THOMAS BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



1-28-10

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

SHAFIQUL ISLAM No. C59019 Exp. 6-30-11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

February 1, 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.

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

PROJECT MANAGER CHRISTIAN SAM

DESIGN ENGINEER MONIR IBRAHIM

LAST REVISION 02-01-10

DATE PLOTTED => 13-FEB-2010
TIME PLOTTED => 23:19

CONTRACT No. 07-4Y5004

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	2	15

R.M. Mishreki 11-3-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER R.M. MISHREKI No. C68484 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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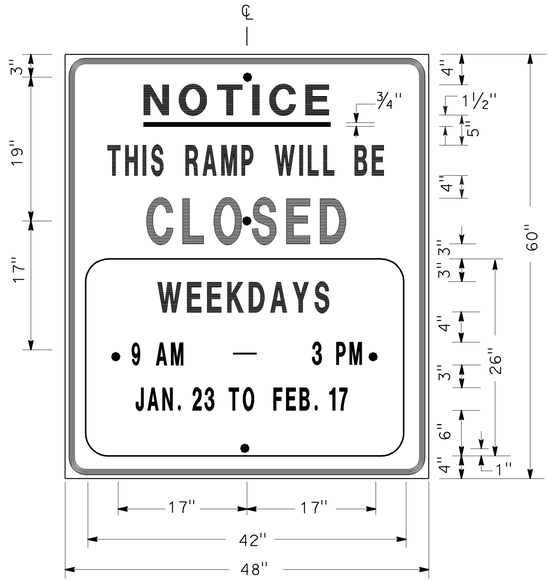
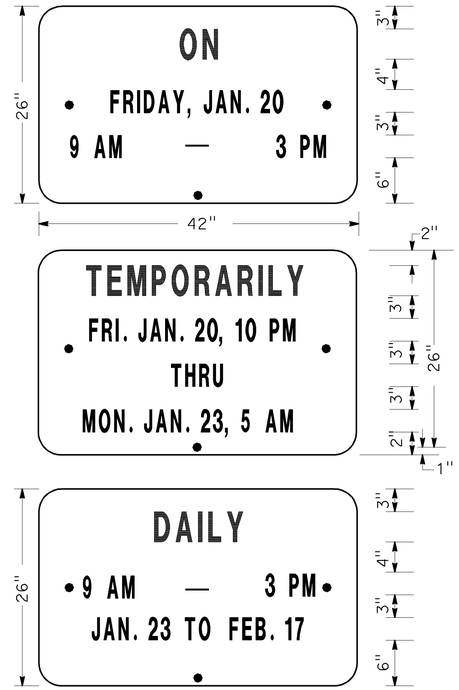


SIGN SP-1



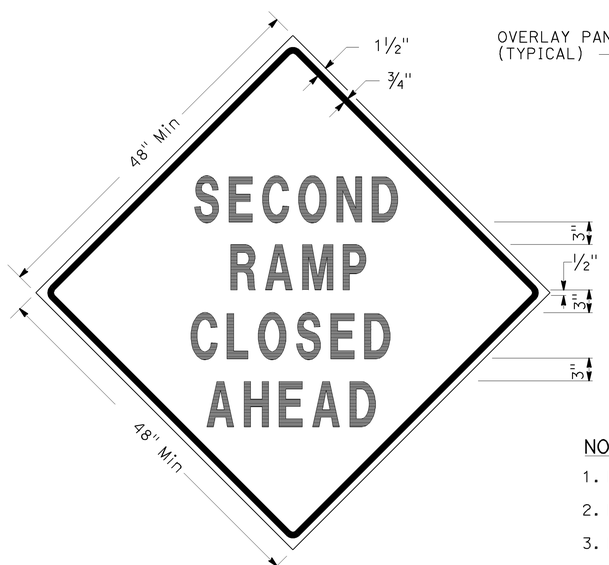
ALTERNATE OVERLAY PANELS (TYPICAL)

SPECIAL ADVANCE NOTICE PUBLICITY SIGN

NOTES: (SIGN SP-1)

1. SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
2. BOLT HOLES SHALL BE 3/8" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"×60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"×26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								



SIGN SP-3

SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SPECIAL SIGN FOR EXIT RAMP CLOSURES

SIGN SP-4

NOTES: (SIGN SP-4)

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS
SHEET 1 OF 2
NO SCALE

THD-1

JC	JC	JC
9/08	8/08	7/08

REVISED BY — DATE REVISED
ALBERT K YU — JOCELYN C CHIANG
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — D. KATAYAMA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

LAST REVISION — DATE PLOTTED => 13-FEB-2010 — TIME PLOTTED => 23:20
02-01-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	3	15

R.M. Mishreki 11-9-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER R.M. MISHREKI No. C68484 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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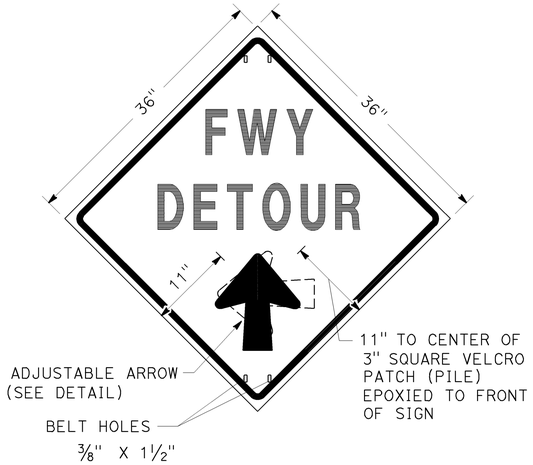
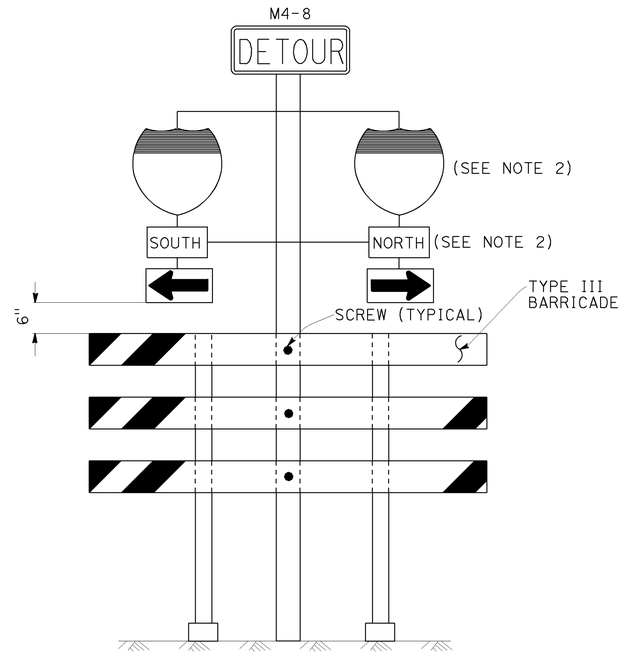
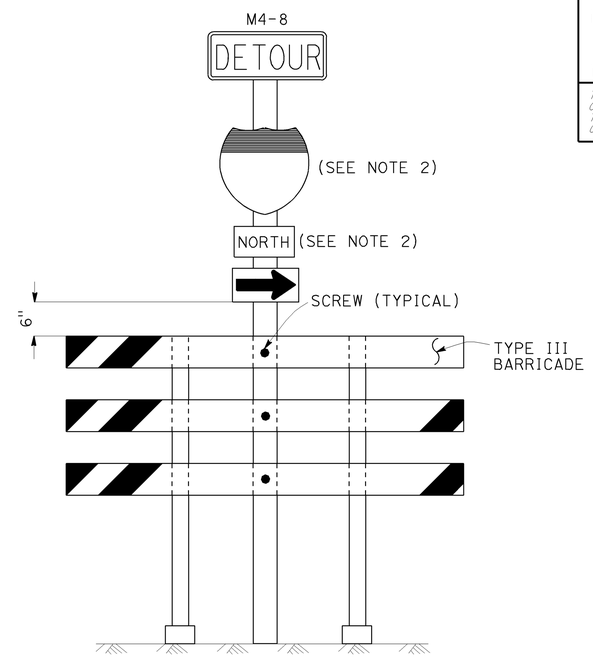


SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

1. LETTERS -6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

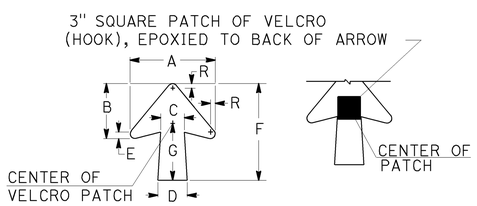
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

THD-2

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

ALBERT K YU — JOCELYN C CHIANG — CALCULATED-DESIGNED BY — CHECKED BY — FUNCTIONAL SUPERVISOR: D. KATAYAMA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — DTM

LAST REVISION 02-10-10 | DATE PLOTTED => 13-FEB-2010 | TIME PLOTTED => 23:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	4	15

R.M. Mishreki 11-9-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER R.M. MISHREKI No. C68484 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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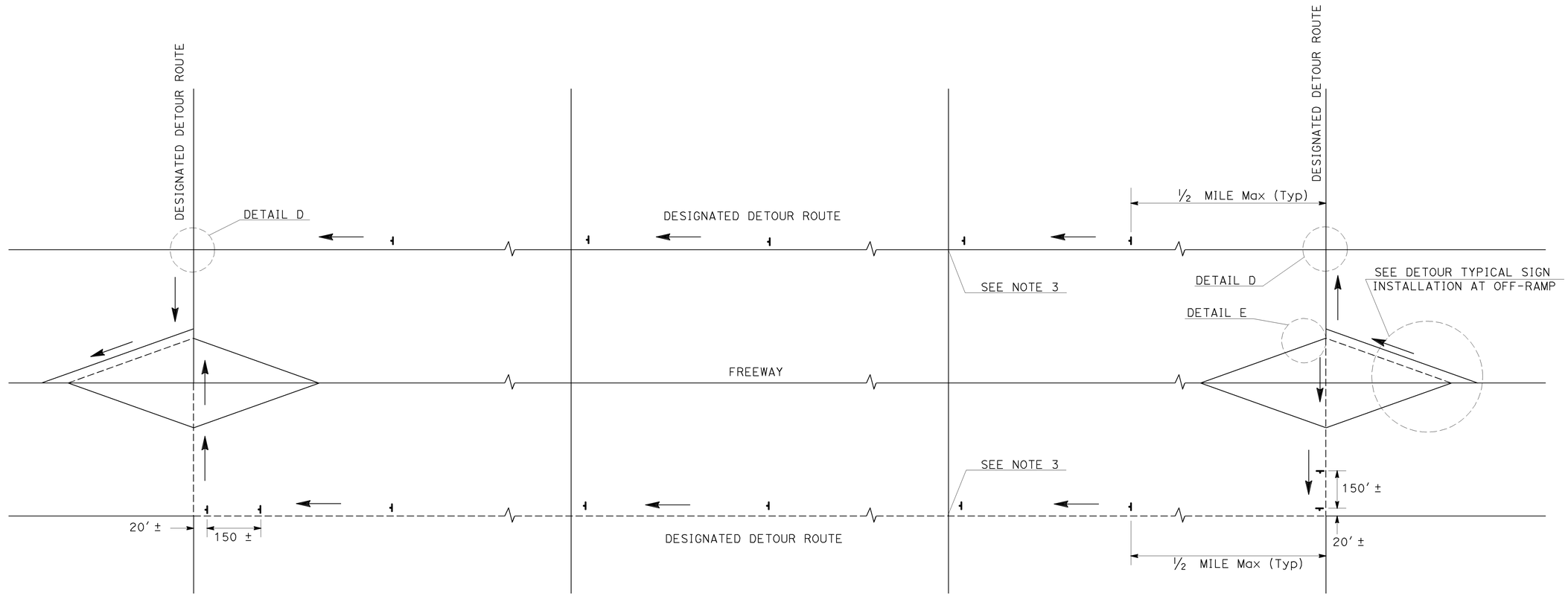

TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

LEGEND

SIGN SP-2

AND/OR DESIGNATED DETOUR ROUTE

DIRECTION OF TRAVEL

NOTES:

1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR ½ MILE MAXIMUM APART.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 1 OF 2

NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM

FUNCTIONAL SUPERVISOR: D. KATAYAMA
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC JC
DATE REVISED: 9/08 7/08

LAST REVISION 02-01-10
DATE PLOTTED => 13-FEB-2010
TIME PLOTTED => 23:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	5	15

R.M. Mishreki 11-9-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER R.M. MISHREKI No. C68484 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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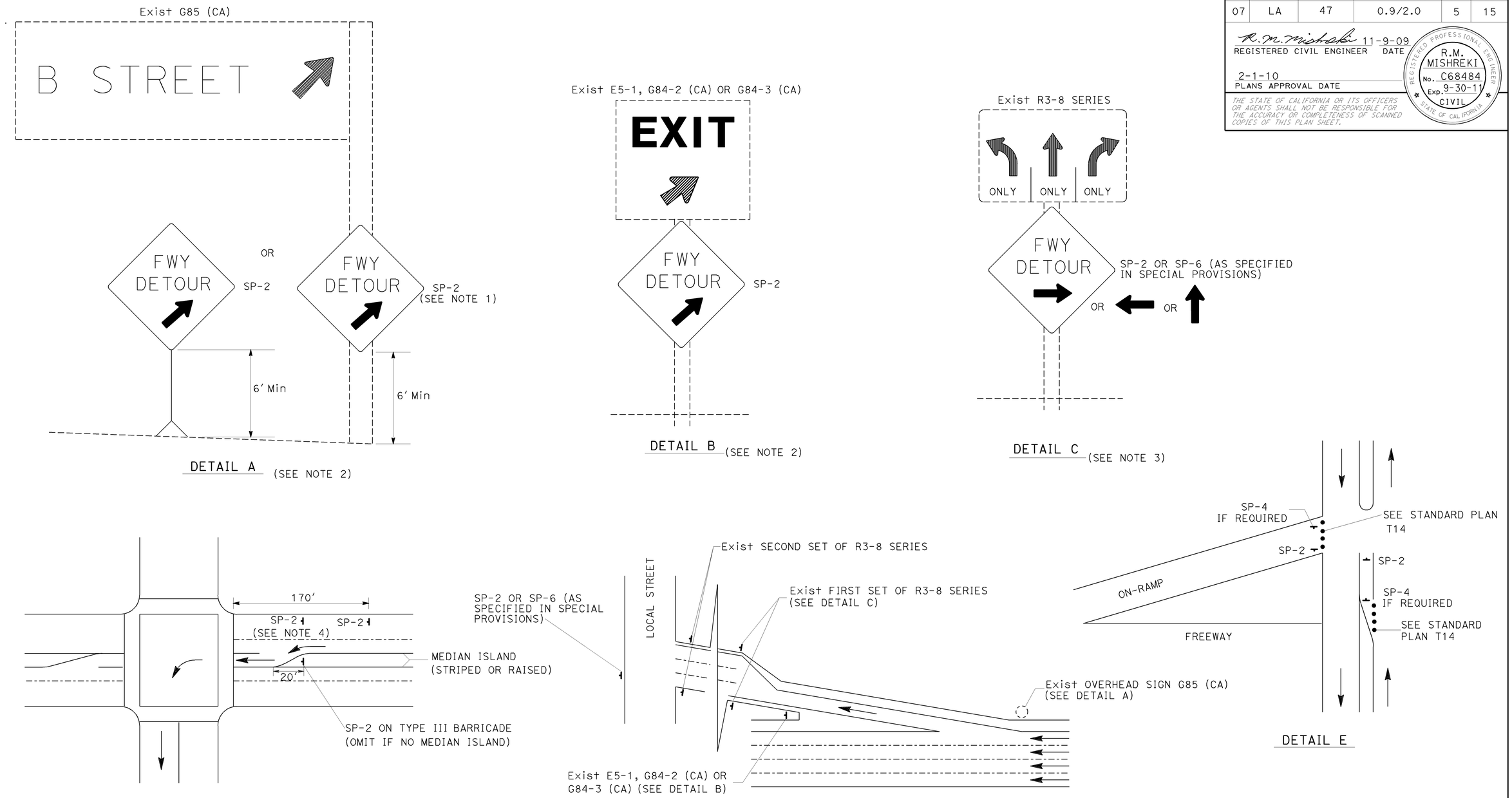

TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES:

1. SP-2 MAY BE STRAPPED ON EXISTING ELECTROLIER SIGNAL POSTS OR SIGN POSTS.
2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.
4. OMIT IF MEDIAN ISLAND EXIST.

ABBREVIATIONS

(CA) CALIFORNIA CODE

LEGENDS

- CONE
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- EXISTING OVERHEAD SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 2

NO SCALE

THD-4

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

ALBERT K YU
JOCELYN C CHIANG
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
D. KATAYAMA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 02-01-10
DATE PLOTTED => 13-FEB-2010
TIME PLOTTED => 23:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.2	6	15

REGISTERED CIVIL ENGINEER 1-28-10 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHAFIQUL ISLAM No. C59019 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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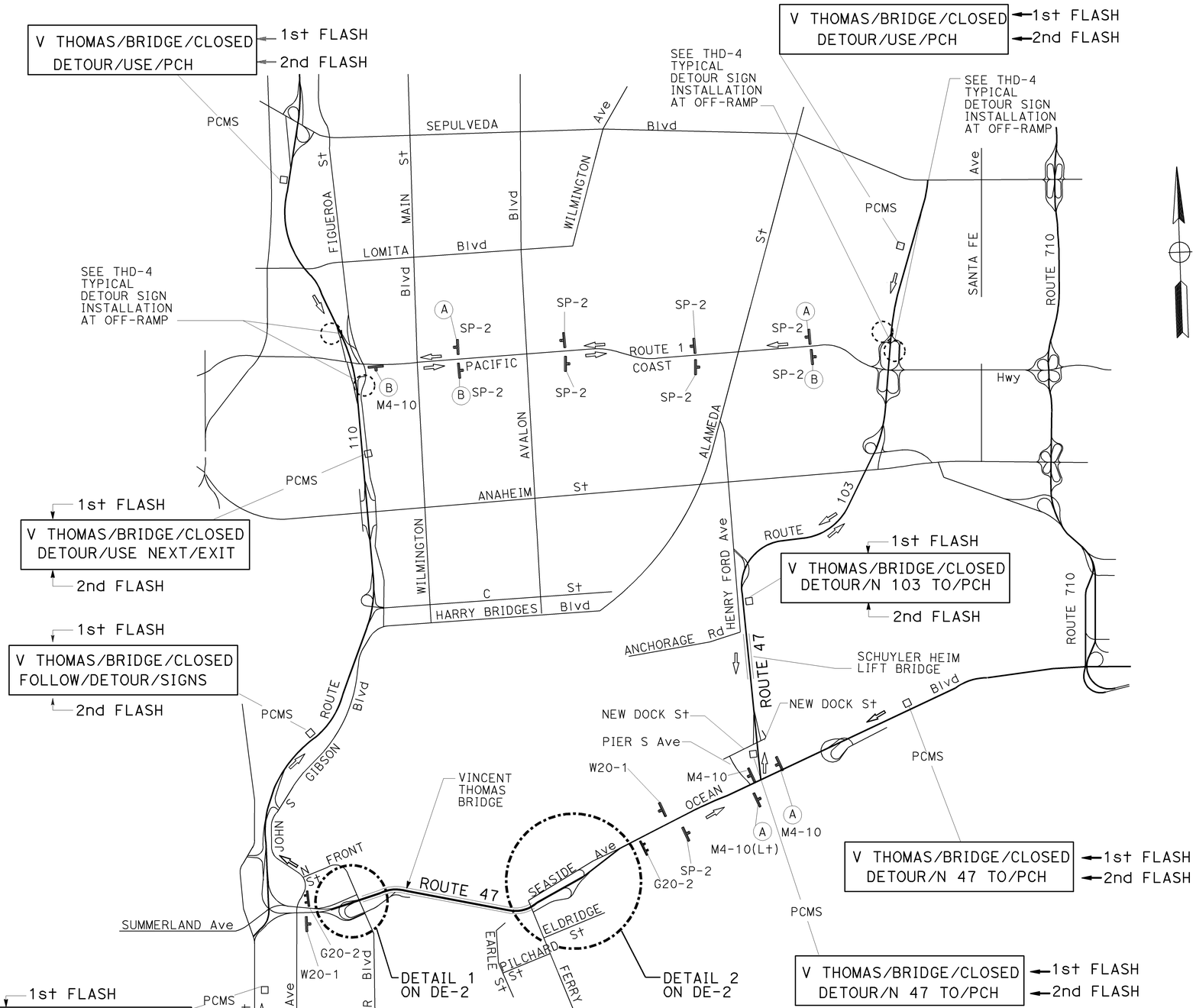

NOTES:

1. LOCATIONS OF DETOUR AND CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SIGNS MAY BE ATTACHED TO STANDARDS OR POSTS AS APPROVED BY THE ENGINEER.
3. DETOUR SIGNS SHALL BE COVERED EXCEPT DURING DETOUR HOURS.

LEGEND:

- ○ - SPECIAL SIGN
- ⇨ - DIRECTION OF TRAFFIC (DETOUR)
- □ - PORTABLE CHANGABLE MESSAGE SIGN

DETOUR PLAN AND CONSTRUCTION AREA SIGNS

NO SCALE

DE-1

THIS PLAN IS ACCURATE FOR DETOUR CONSTRUCTION WORK AND CONSTRUCTION AREA SIGNS ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: MONIR IBRAHIM
CALCULATED-DESIGNED BY: CYNTHIA CHANG
CHECKED BY: SHAFIQUL ISLAM
REVISED BY / DATE REVISED

LAST REVISION 02-01-10
DATE PLOTTED => 13-FEB-2010
TIME PLOTTED => 23:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.2	7	15

REGISTERED CIVIL ENGINEER 1-28-10 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHAFIQUL ISLAM No. C59019 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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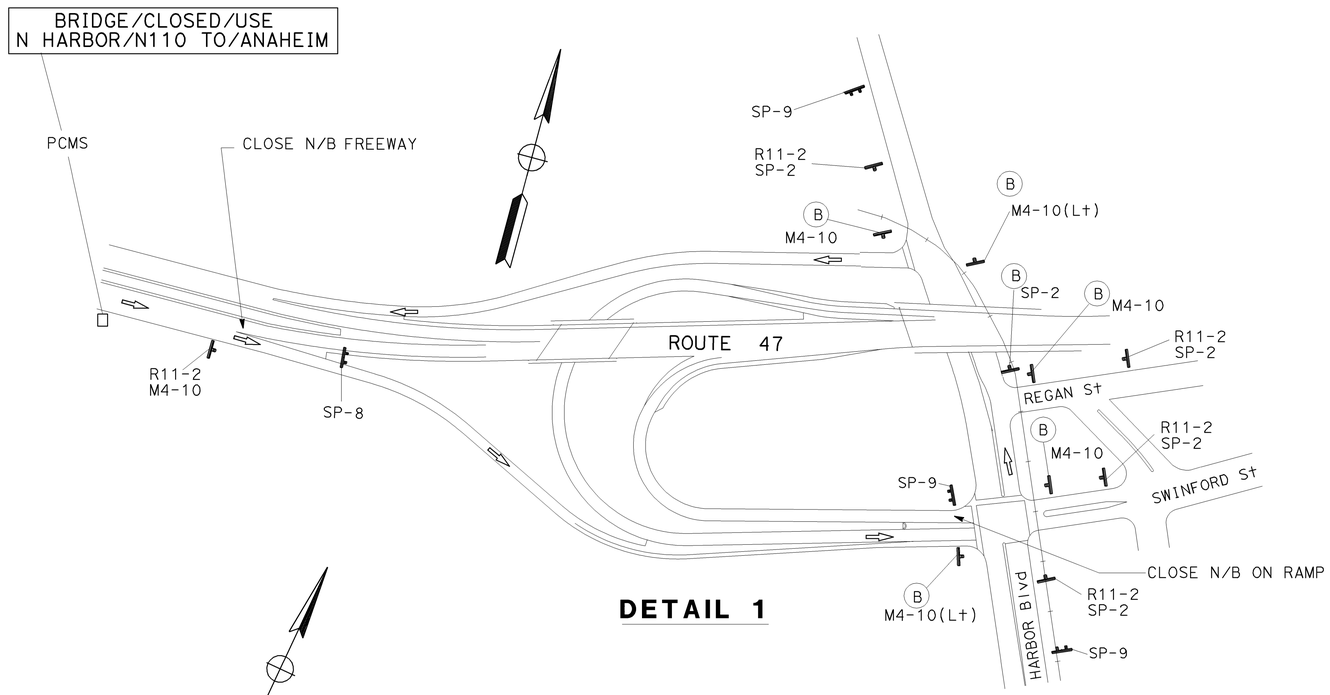
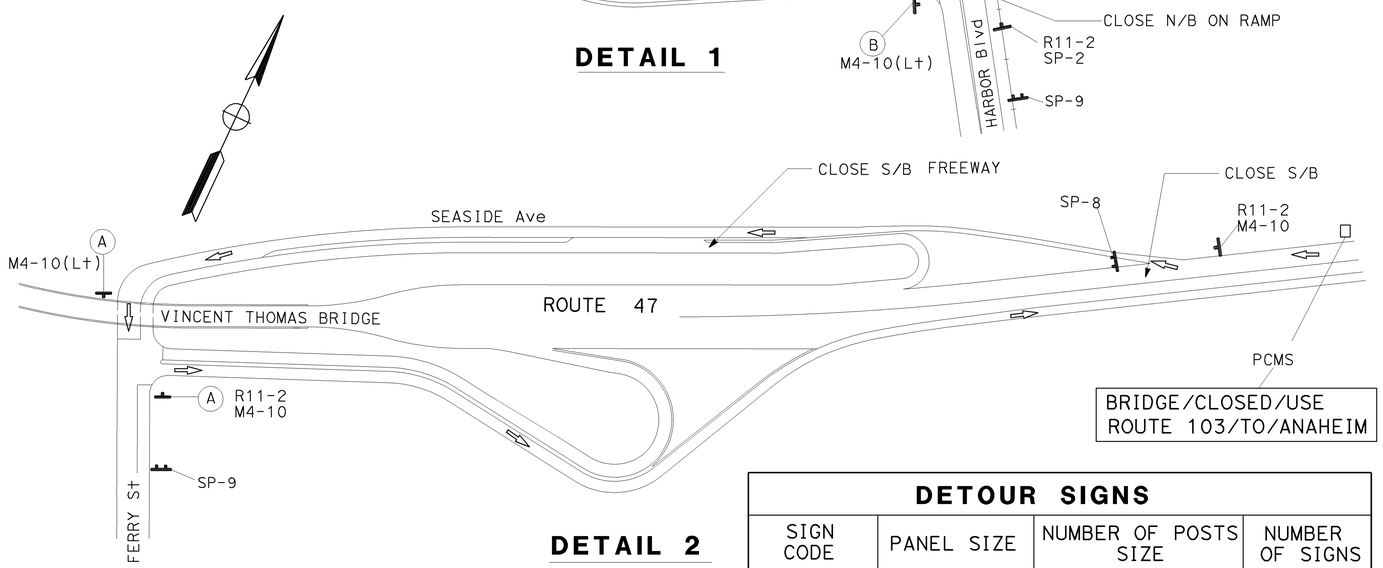


DETAIL 1



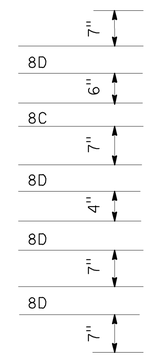
DETAIL 2

CONSTRUCTION AREA SIGNS STATIONARY MOUNTED	
SIGN CODE	NUMBER OF SIGNS
G20-2	2
W20-1	2

DETOUR SIGNS			
SIGN CODE	PANEL SIZE	NUMBER OF POSTS SIZE	NUMBER OF SIGNS
SP-8	144" x 78"	2 - 6" x 6"	2
SP-9	60" x 48"	2 - 6" x 6"	4
(A)	48" x 18"	1 - 4" x 4"	6
(B)	48" x 18"	1 - 4" x 4"	9
PCMS			10
R11-2			7
M4-10			8
M4-10(LT)			4
SP-2			34

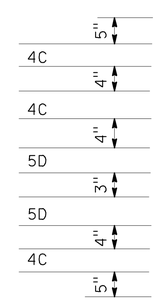
TO SAN PEDRO 4D LETTERS
(A)

TO TERMINAL ISLAND 4D LETTERS
(B)



VINCENT THOMAS BR
SUBJECT TO CLOSURE
FRI ____ MON
-PM -AM
BEGINNING ____ 2010

SP-8



VINCENT THOMAS BR
SUBJECT TO CLOSURE
FRI ____ MON
-PM -AM
BEGINNING ____ 2010

SP-9

THIS PLAN IS ACCURATE FOR DETOUR CONSTRUCTION WORK AND CONSTRUCTION AREA SIGNS ONLY.

DETOUR PLAN AND CONSTRUCTION AREA SIGNS

NO SCALE

DE-2

CYNTHIA CHANG | SHAFIQUL ISLAM | MONIR IBRAHIM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

LAST REVISION 02-01-10 | DATE PLOTTED => 13-FEB-2010 | TIME PLOTTED => 23:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	8	15

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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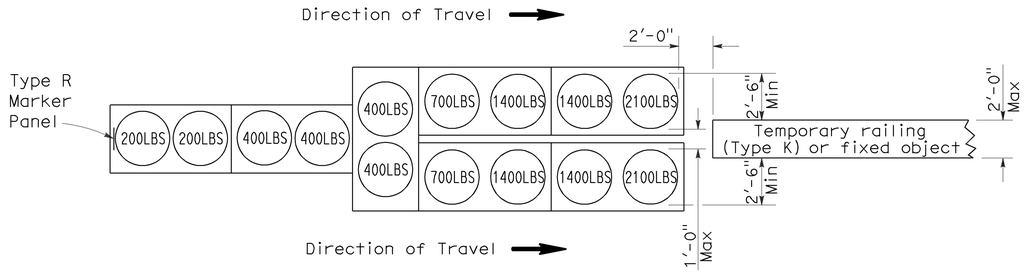
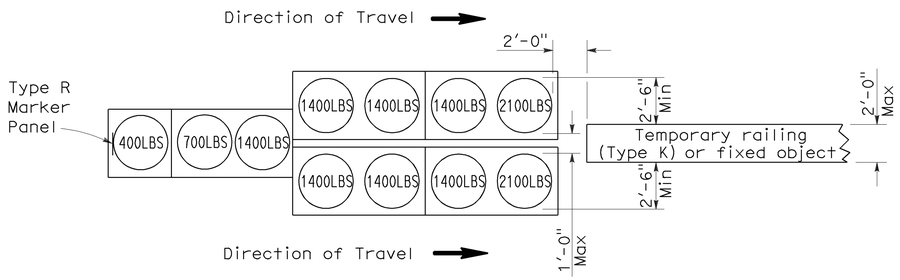
To accompany plans dated 2-1-10



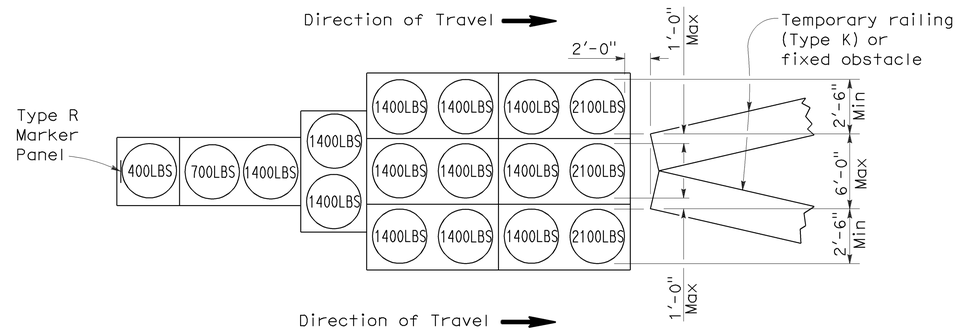
ARRAY 'TU14'

Approach speed 45 mph or more



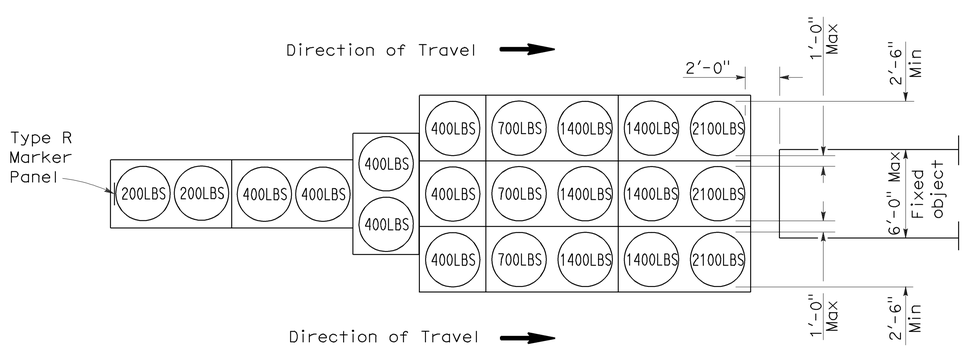
ARRAY 'TU11'

Approach speed less than 45 mph



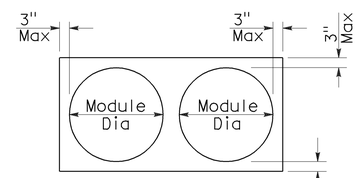
ARRAY 'TU17'

Approach speed less than 45 mph

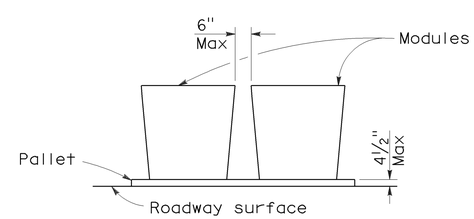


ARRAY 'TU21'

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
07	LA	47	0.9/2.0	9	15

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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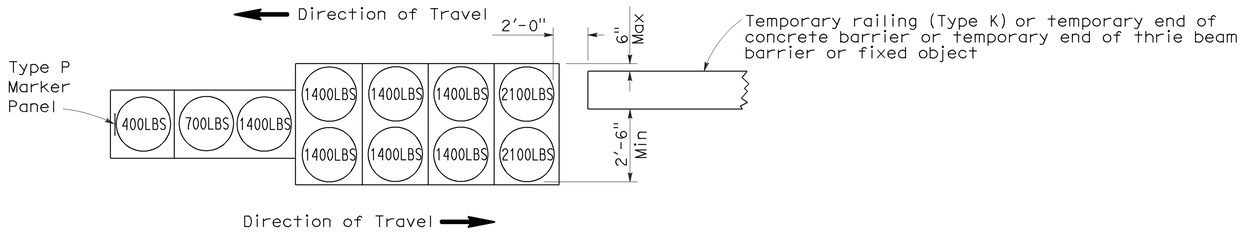
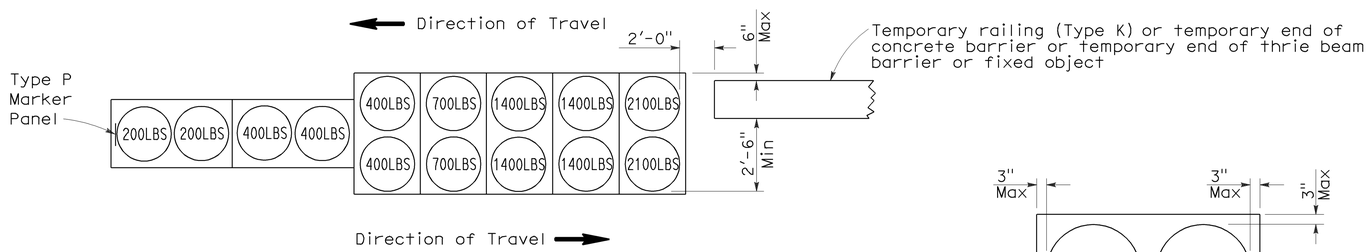
To accompany plans dated 2-1-10



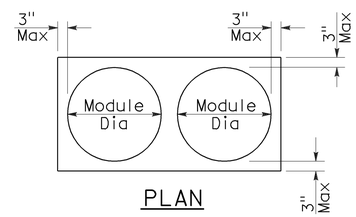
ARRAY 'TB11'

Approach speed less than 45 mph

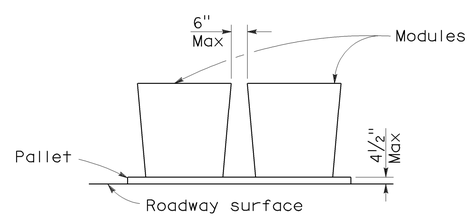


ARRAY 'TB14'

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
07	LA	47	0.9/2.0	10	15

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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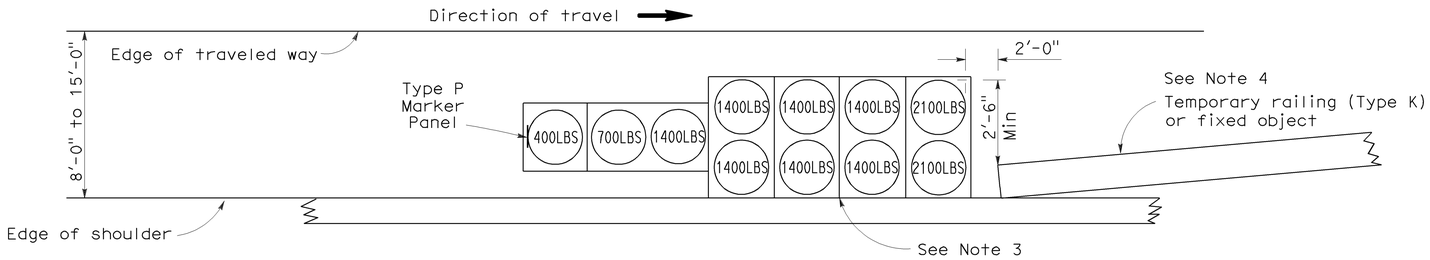
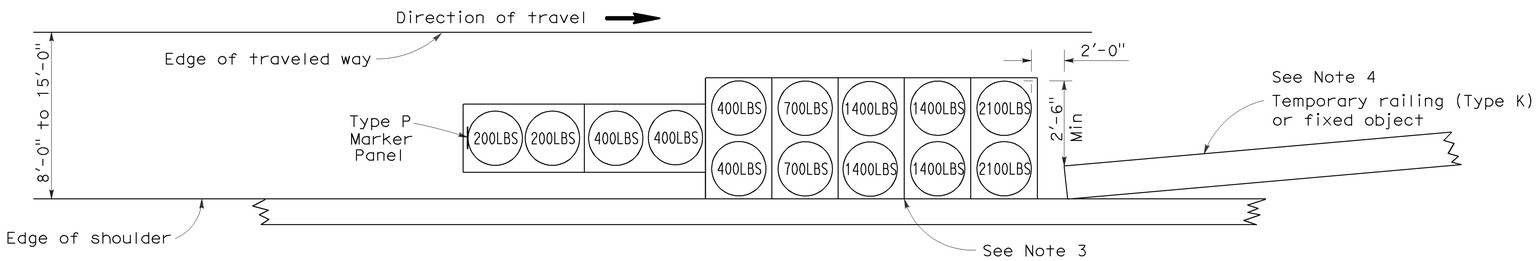
To accompany plans dated 2-1-10



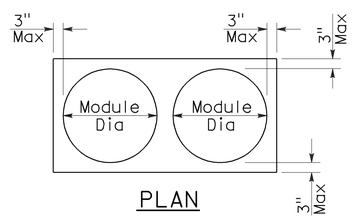
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

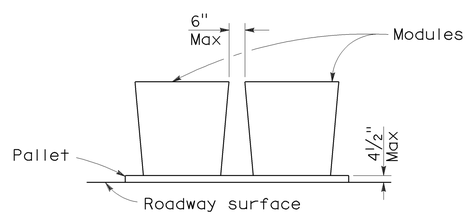


ARRAY 'TS14'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	11	15

REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Greg W. Edwards
No. C36386
Exp. 6-30-08
CIVIL
STATE OF CALIFORNIA

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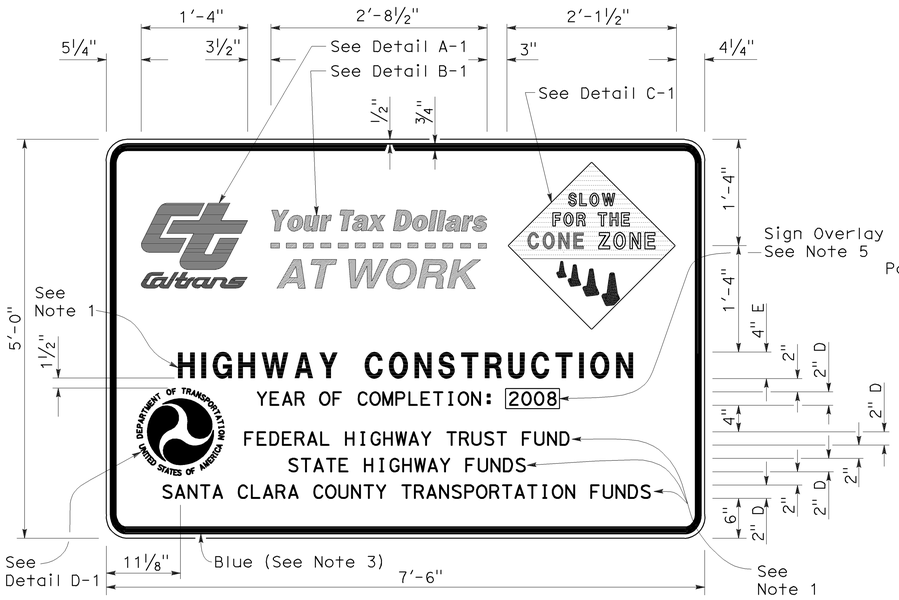
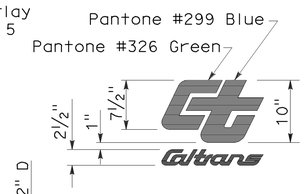
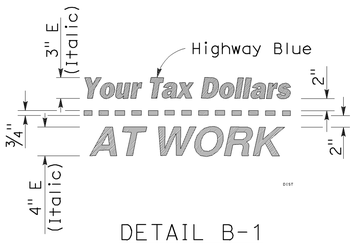
To accompany plans dated 2-1-10



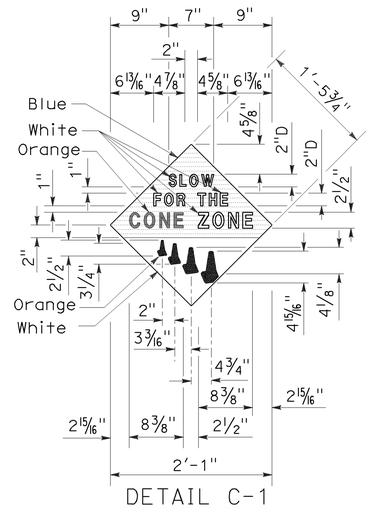
TYPE 1



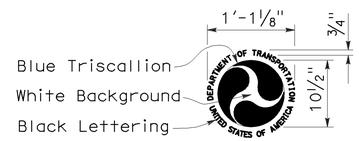
DETAIL A-1



DETAIL B-1
(See Note 3)



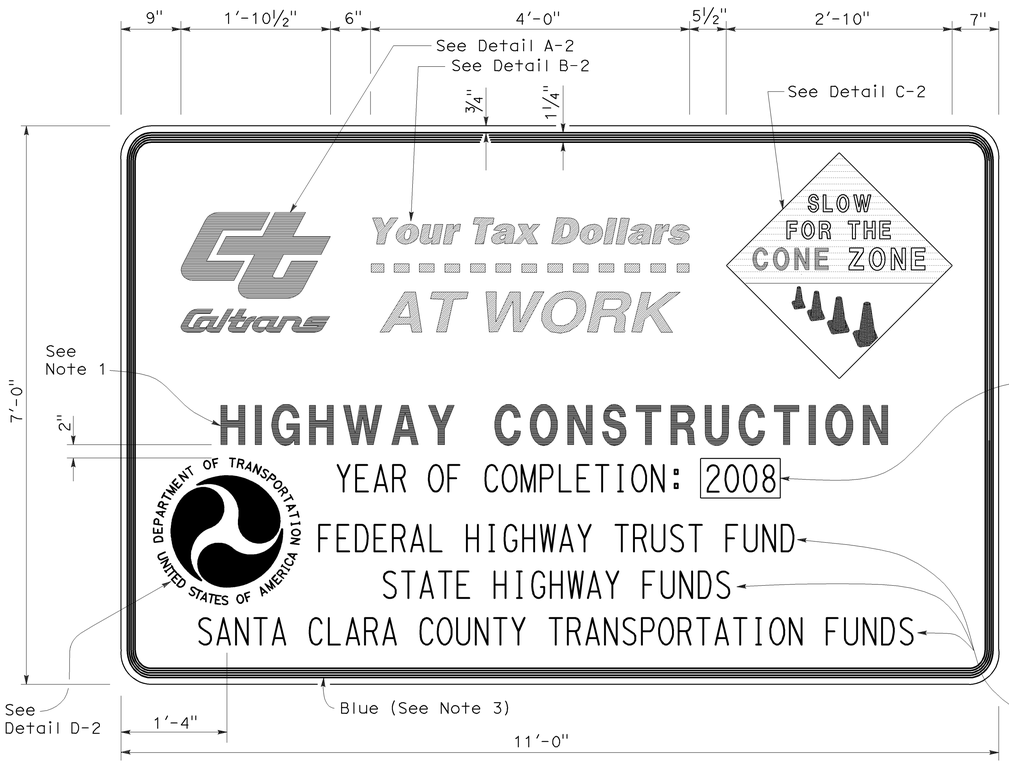
DETAIL C-1
(See Note 4)



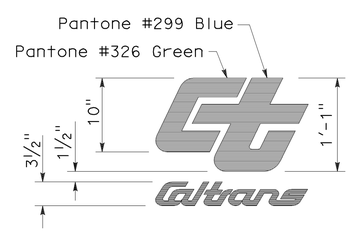
DETAIL D-1
(See Note 6)

NOTES:

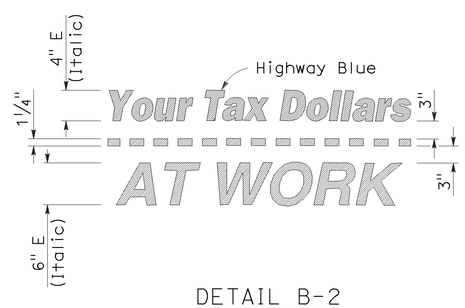
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, " SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



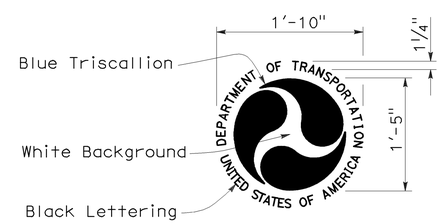
TYPE 2



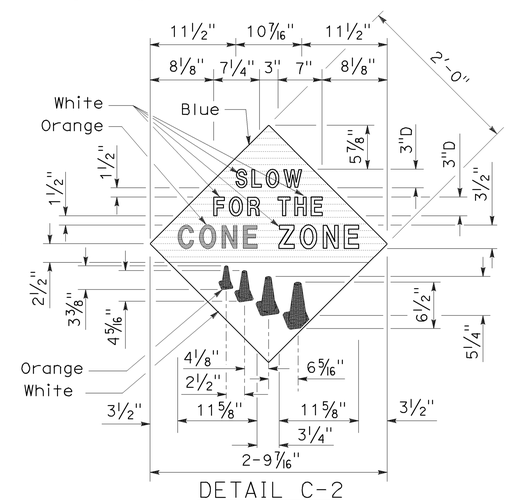
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL D-2
(See Note 6)



DETAIL C-2
(See Note 4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

9-7-06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	12	15

REGISTERED CIVIL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Efthymios Delis No. C51434 Exp. 6-30-08 CIVIL STATE OF CALIFORNIA

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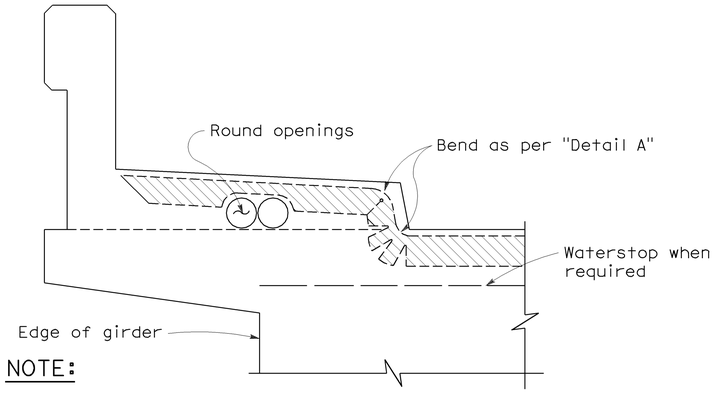
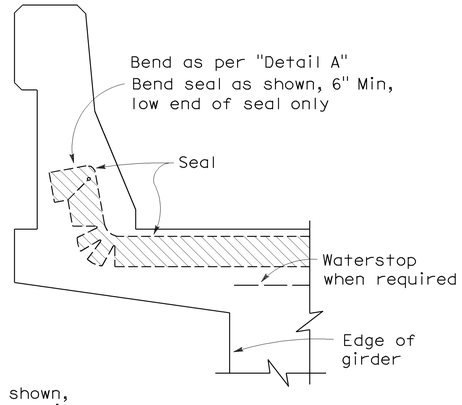
To accompany plans dated 2-1-10



NOTE:

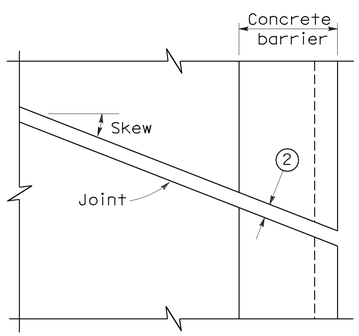
Type "B" seal shown. Type "A" seals to comform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



CONCRETE BARRIER

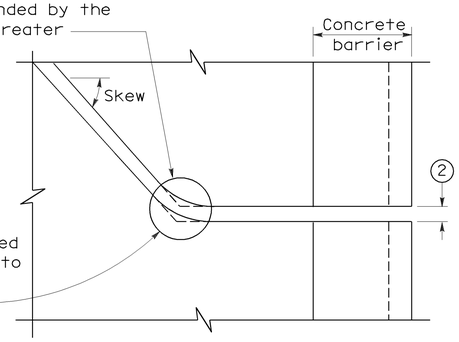
JOINT SEALS DETAILS



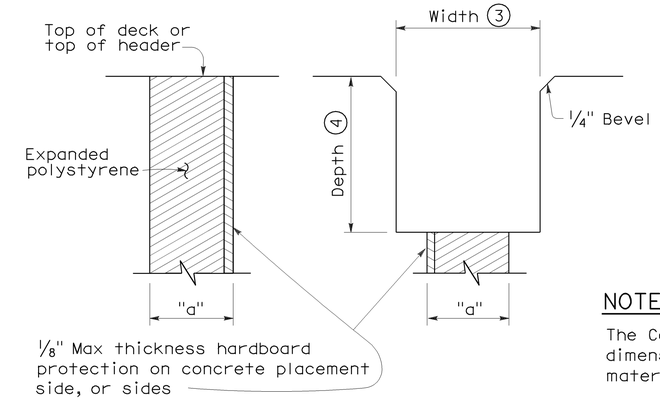
PLAN OF JOINT (SKEW ≤ 20°)

Min ℄ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



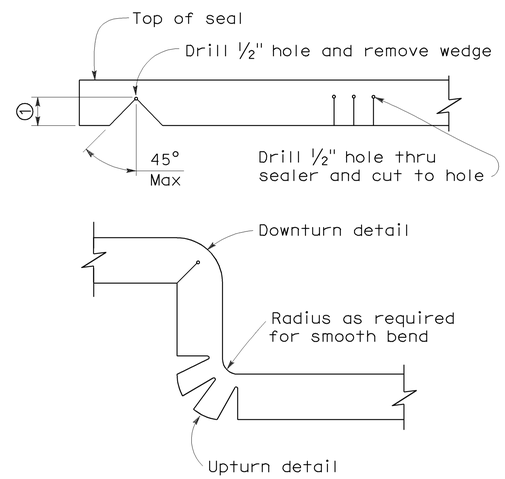
PLAN OF JOINT (SKEW > 20°)



FORMING DETAIL SAWCUT DETAIL

NOTE:

The Contractor shall verify all controlling field dimensions before ordering or fabricatiing any material.



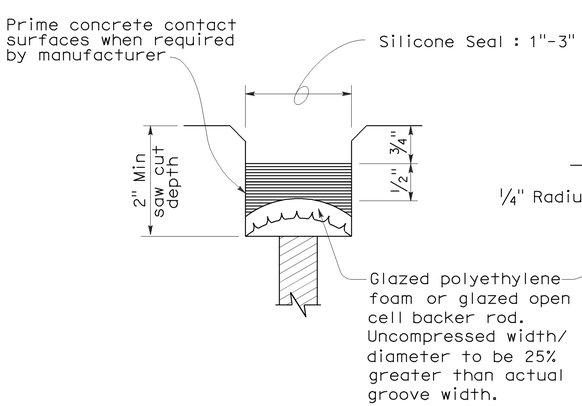
DETAIL A

NOTES:

1. Make smooth cuts from the bottom of seal to 1½" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
2. Opening in barrier to match width of sawn deck joint.
3. Sawcut groove widths shall be as ordered by the Engineer.
4. Depth of sawcut: Type A - Depth to be 2" minimum.
   Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W_2) plus dimensions shown.
5. MR (movement rating) as shown on other plan sheets.
6. Other depths must be approved by the Engineer.

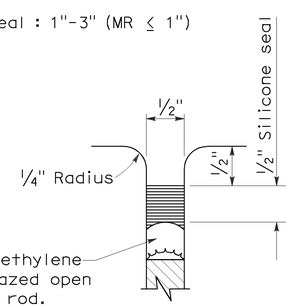
DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) 5	Bridge Type	"a" Dimension Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1½"	1¼"	¾"
	CIP/PS	1¼"	1"	½"
1½"	All except CIP/PS	1¼"	1"	½"
	CIP/PS	1"	¾"	½"
1"	All except CIP/PS	1"	¾"	½"
	CIP/PS	¾"	½"	½"
½"	All except CIP/PS	¾"	¾"	½"
	CIP/PS	½"	½"	½"



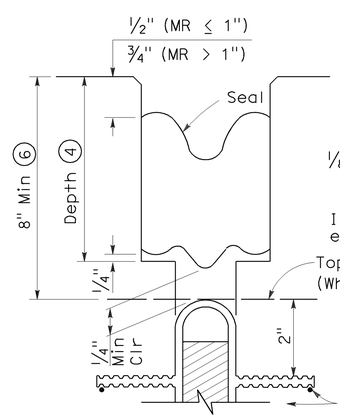
TYPE A SEAL

Movement rating : Silicone = 1" Max

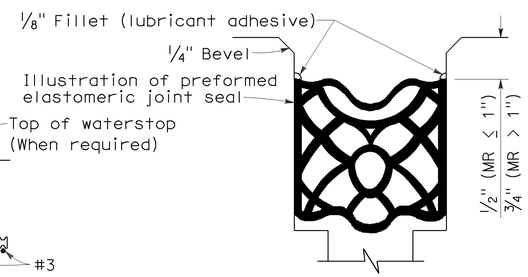


TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL
IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

NO SCALE

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

5-8-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	13	15

REGISTERED CIVIL ENGINEER 11-24-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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WORK DESCRIPTION LEGEND

ITEM	DESCRIPTION
A	Install & Disassemble paint scaffolding system with shrink wrap.
B	Disassemble and assembling State furnished QuickDeck Platform System at various span locations.

STANDARD PLANS DATED MAY 2006

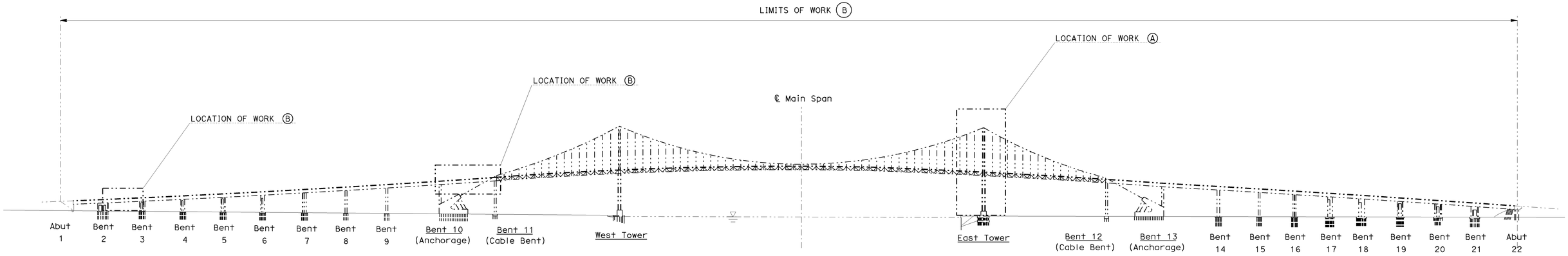
SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEAL (MAXIMUM MR=2")

STANDARD PLAN SHEET NO.

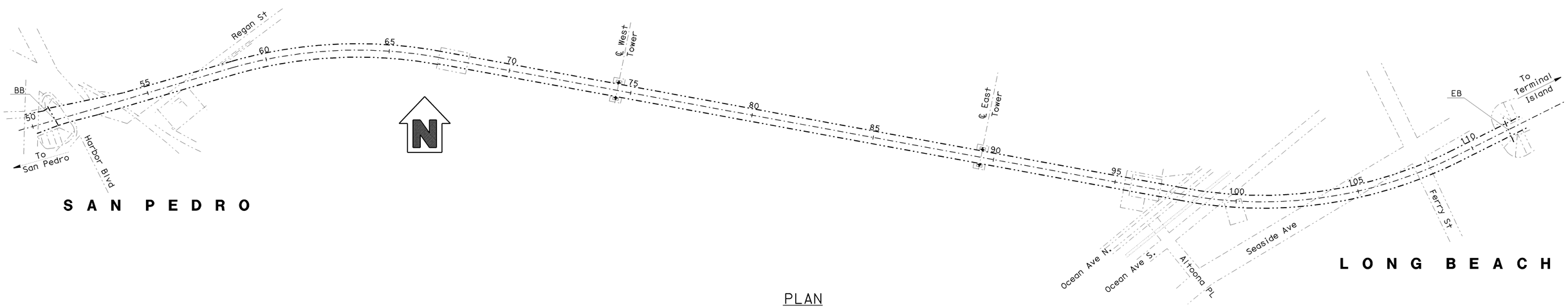
DETAIL NO.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	QUIKDECK SCAFFOLD PLATFORM
3	EAST TOWER PAINT SCAFFOLDING



ELEVATION
No Scale



PLAN
No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Tony Brake
DETAILS	Clayton Tom	Gerald Joo
QUANTITIES	Gerald Joo	Tony Brake

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
LAYOUT	BY Clayton Tom	CHECKED Gerald Joo
SPECIFICATIONS	BY Mingxia Pan	PLANS AND SPECS COMPARED Mingxia Pan

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07602
EA 4Y5001

BRIDGE NO. 53-1471
POST MILE 0.86

VINCENT THOMAS BRIDGE
GENERAL PLAN

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 08-10-09, 09-28-09, 10-12-09, 10-30-09, 11-10-09, 11-24-09

SHEET 1 OF 3

FILE => 07-4Y5001-a-gp01.dgn

USERNAME => s117283 DATE PLOTTED => 24-NOV-2009 TIME PLOTTED => 07:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	14	15

REGISTERED CIVIL ENGINEER 11-24-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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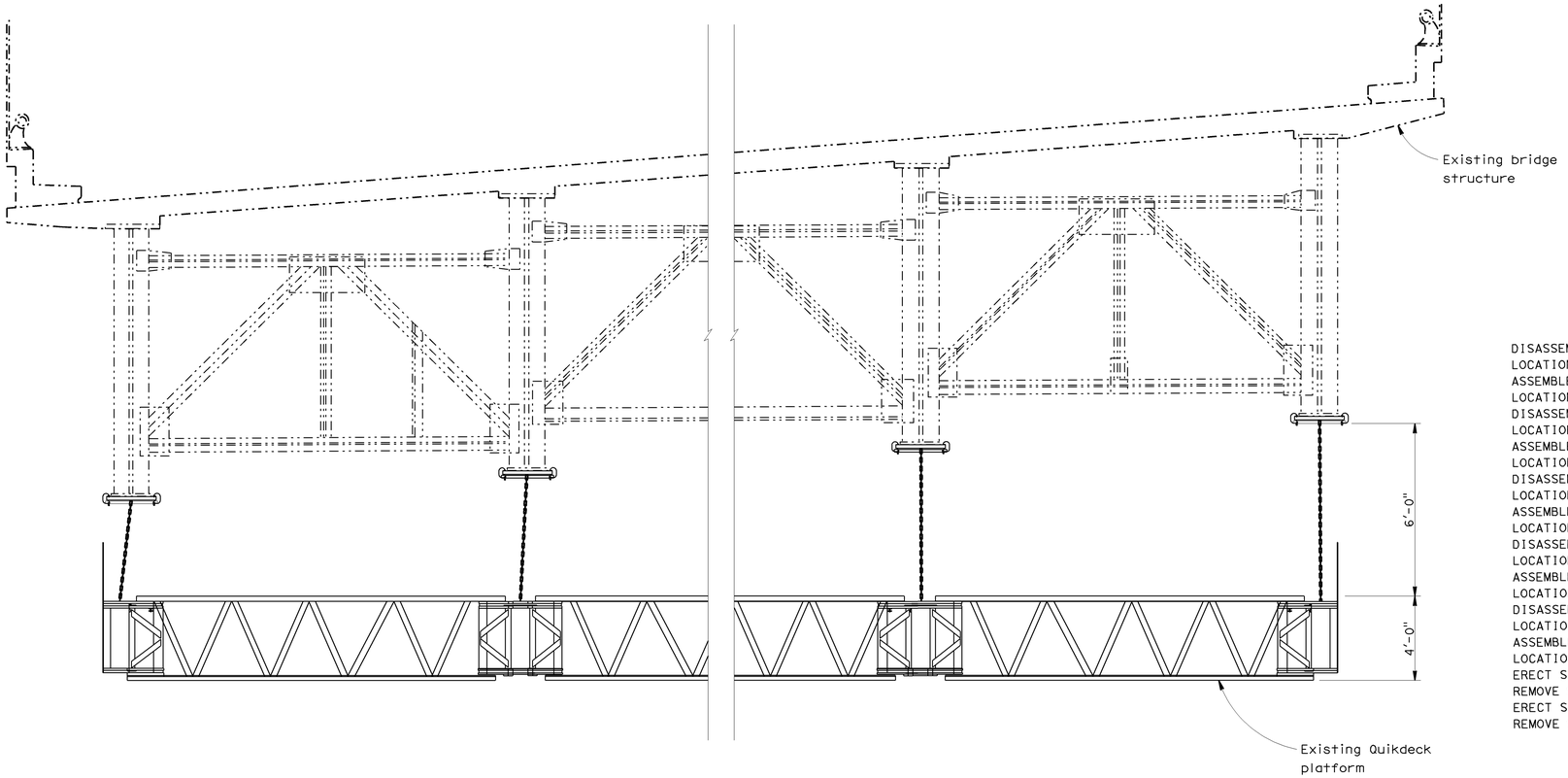

ELEVATION

No Scale

VINCENT THOMAS BRIDGE #53-1471
QUANTITIES

DISASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION A	1 EA
ASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION A	1 EA
DISASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION B	1 EA
ASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION B	1 EA
DISASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION C	1 EA
ASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION C	1 EA
DISASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION D	1 EA
ASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION D	1 EA
DISASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION E	1 EA
ASSEMBLE QUICKDECK PLATFORM SYSTEM, LOCATION E	1 EA
ERECT SCAFFOLDING, LOWER HALF TOWER	1 EA
REMOVE SCAFFOLDING, LOWER HALF TOWER	1 EA
ERECT SCAFFOLDING, UPPER HALF TOWER	1 EA
REMOVE SCAFFOLDING, UPPER HALF TOWER	1 EA

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED			
DESIGN	Gerald Joo	Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	Clayton Tom	Gerald Joo	LAYOUT	Clayton Tom	Gerald Joo
QUANTITIES	Gerald Joo	Tony Brake	SPECIFICATIONS	Mingxia Pan	PLANS AND SPECS COMPARED Mingxia Pan

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 53-1471
POST MILE 0.86

VINCENT THOMAS BRIDGE
QUIKDECK SCAFFOLDING PLATFORM

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 07602
EA 4Y5001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 09-07-09 09-28-09 10-12-09 10-30-09 11-16-09 11-24-09

SHEET 2 OF 3

FILE => 07-4Y5001-a-gp02.dgn

USERNAME = s117283 DATE PLOTTED => 24-NOV-2009 TIME PLOTTED => 07:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	15	15

REGISTERED CIVIL ENGINEER 11-24-09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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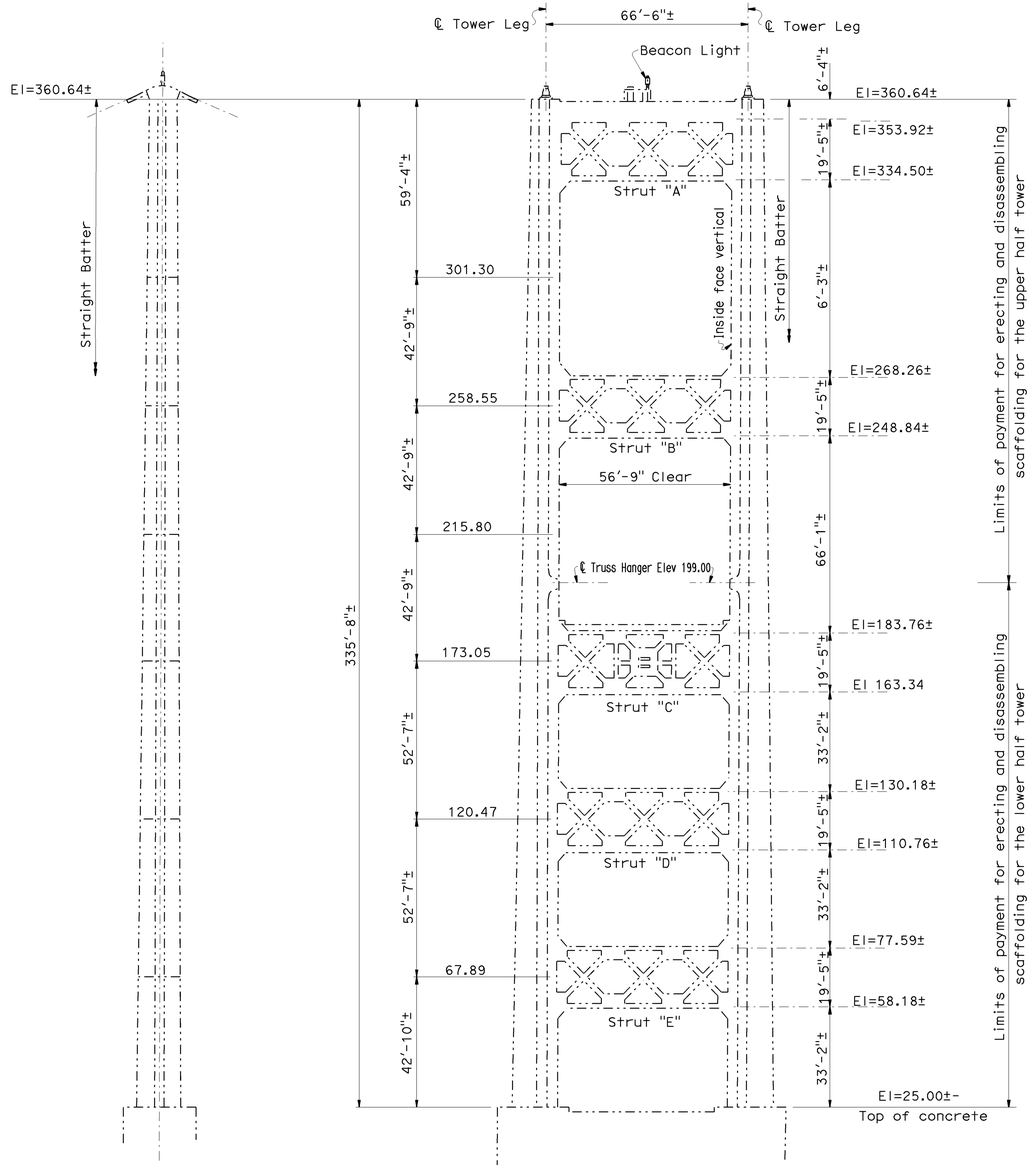
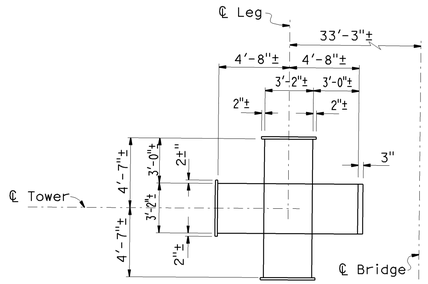
Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



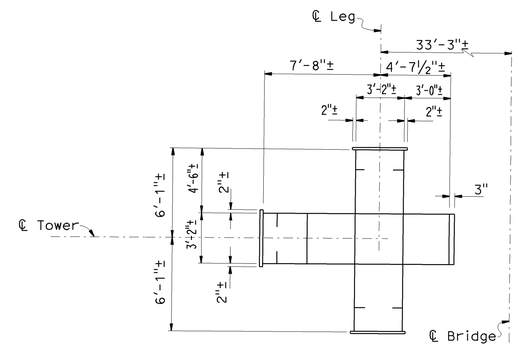
SIDE VIEW

ELEVATION

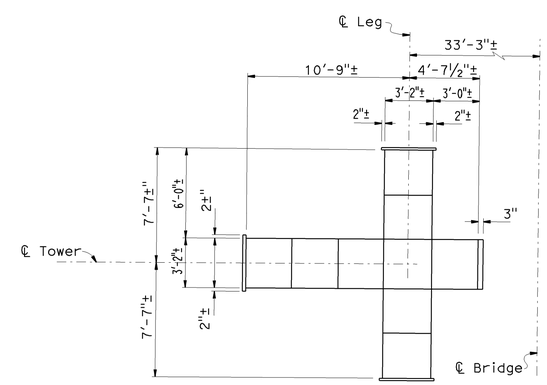
No Scale



AT ELEVATION 360.50



AT ELEVATION 192.87

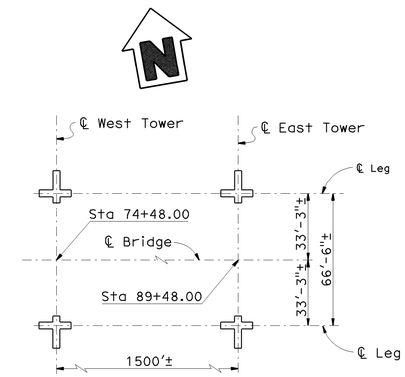


AT ELEVATION 25.25

LEG SECTIONS

No Scale

(Main Material Only)



LOCATION PLAN OF TOWERS

No Scale

NOTES:

1. Paint scaffolding to completely encapsulate tower legs from top of concrete to top of cable saddle, and all components of transverse struts.
2. Painting of tower to be done by others.
3. There shall be no scaffolding support on bridge deck.
4. Scaffolding shall not impede or infringe upon traveled way.
5. Shrink wrap shall not be placed until such time that all welds or connections are in place, inspected, and approved by the Engineer.
6. All hand tools shall be tethered or secured in a manner that will prevent accidental drops onto live traffic or deck.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED			
DESIGN	Gerald Joo	Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	Clayton Tom	Gerald Joo	LAYOUT	Clayton Tom	Gerald Joo
QUANTITIES	Gerald Joo	Tony Brake	SPECIFICATIONS	Mingxia Pan	PLANS AND SPECS COMPARED Mingxia Pan

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07602
EA 4Y5001

BRIDGE NO. 53-1471
POST MILE 0.86

VINCENT THOMAS BRIDGE
EAST TOWER PAINT SCAFFOLDING

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: ~~09-07-09~~ ~~09-28-09~~ ~~10-12-09~~ ~~11-16-09~~ 11-24-09

SHEET 3 OF 3

FILE => 07-4Y5001-a-gp03.dgn

USERNAME => s117283 DATE PLOTTED => 24-NOV-2009 TIME PLOTTED => 07:24