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2	CONSTRUCTION AREA SIGNS
3-6	TRAFFIC HANDLING DETAILS
7-9	REVISED STANDARD PLANS

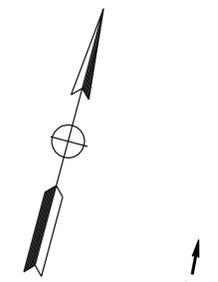
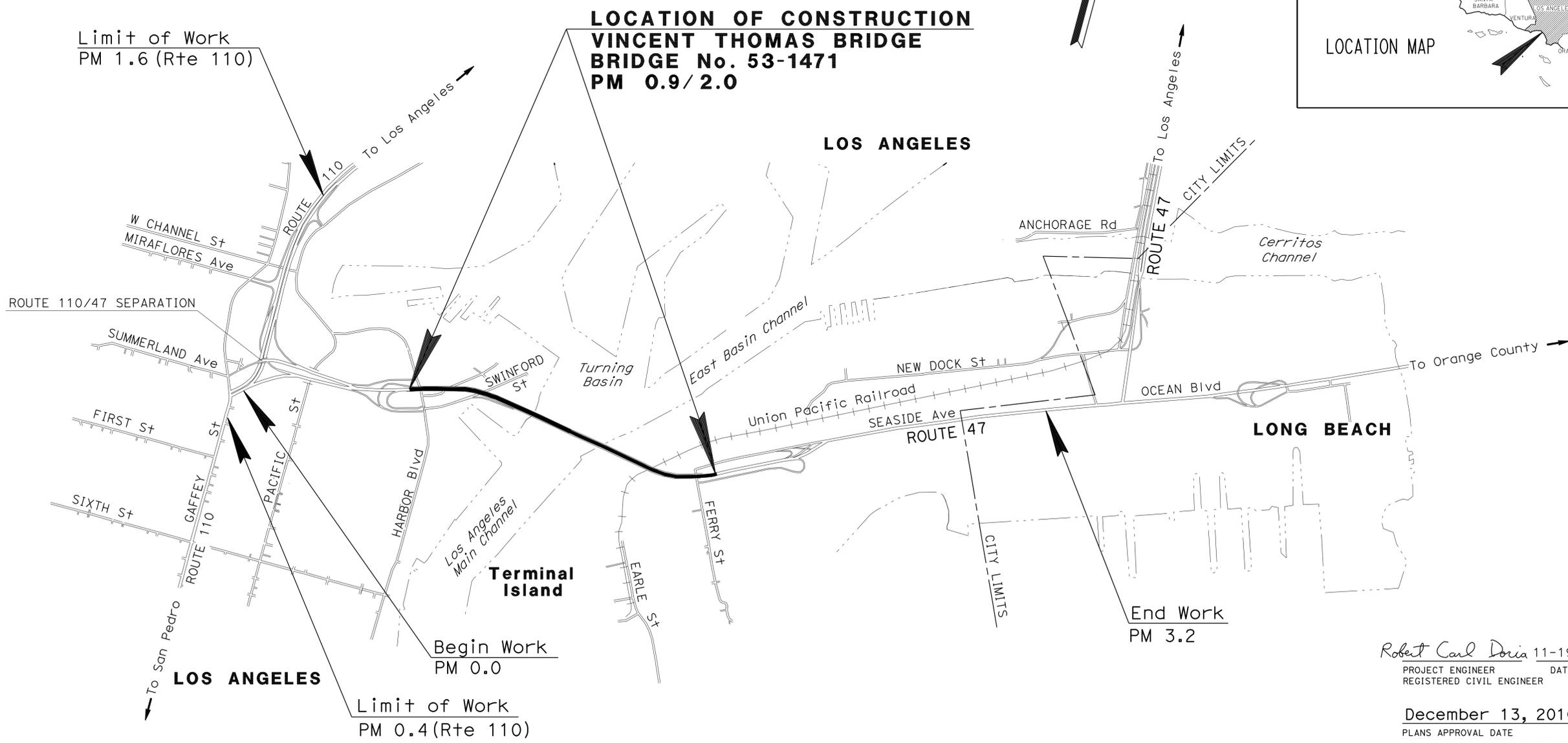
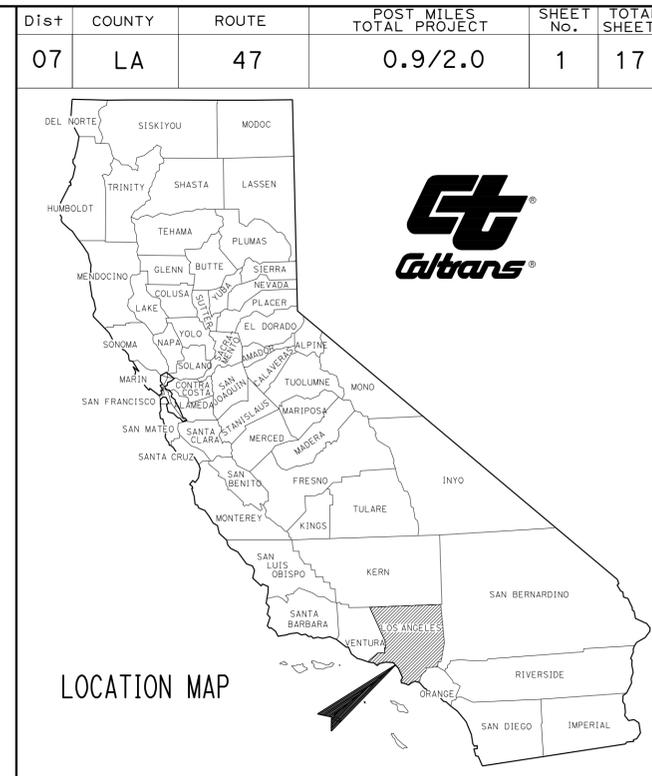
STRUCTURE PLANS

10-17	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



PROJECT MANAGER
CHRISTIAN SAM

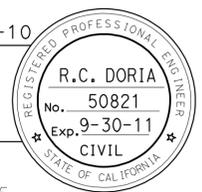
DESIGN ENGINEER
HAMID SAADATNEJADI

Robert Carl Doria 11-19-10
PROJECT ENGINEER DATE

REGISTERED CIVIL ENGINEER

December 13, 2010
PLANS APPROVAL DATE

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

CONTRACT No.	07-4Y3304
PROJECT ID	0700020214

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	2	17

Robert Carl Doria 11-19-10
REGISTERED CIVIL ENGINEER DATE

12-13-10
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
①	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	7
②	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	2
③	C40 (CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	3

NOTES:

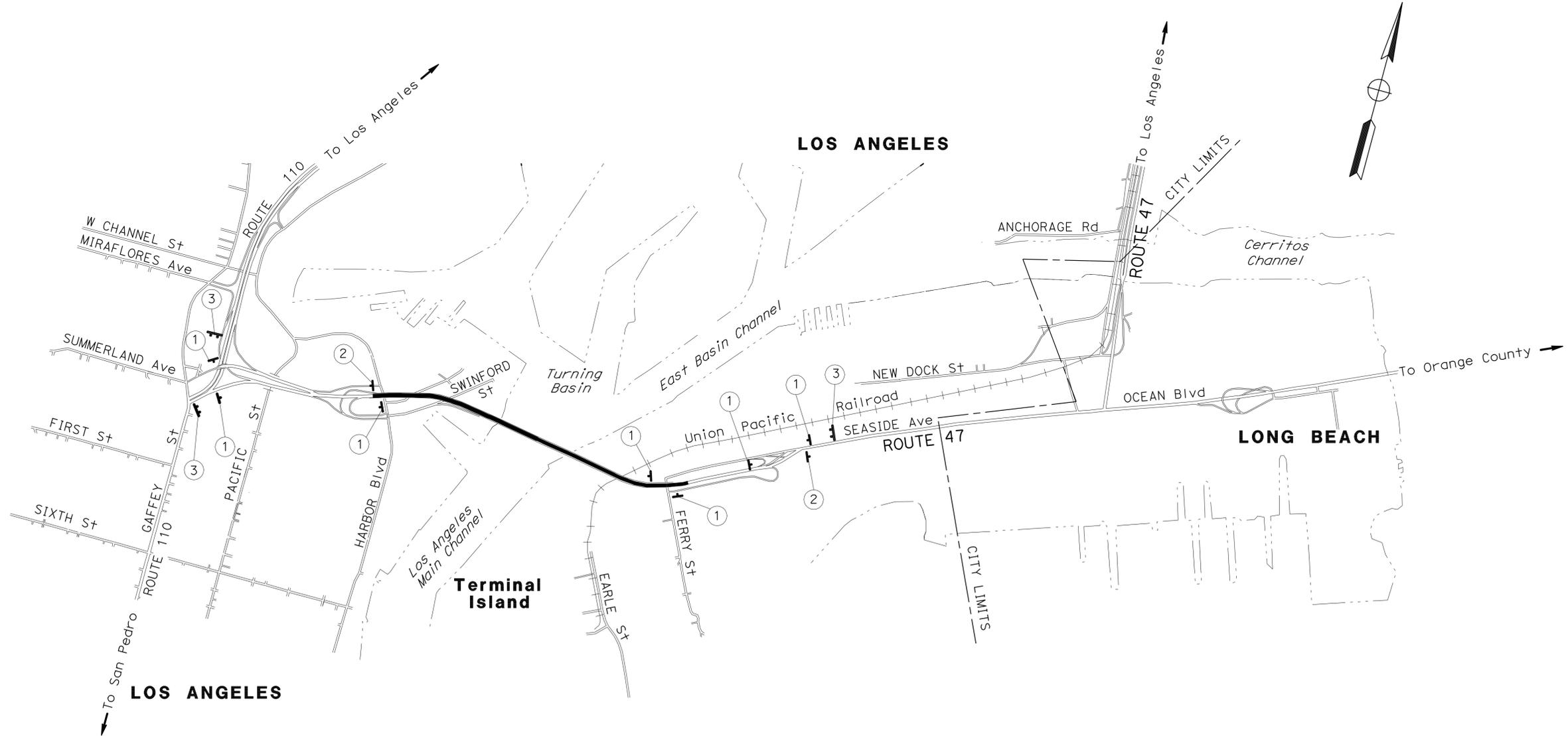
- "TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES" SIGNS SHALL BE PLACED 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGNS OR AS DETERMINED BY THE ENGINEER.
- LOCATIONS OF CONSTRUCTION AREA SIGNS AS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI

REVISOR: ROBERT C DORIA, HAMID SAADATNEJADI

DATE: 12-13-10



CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

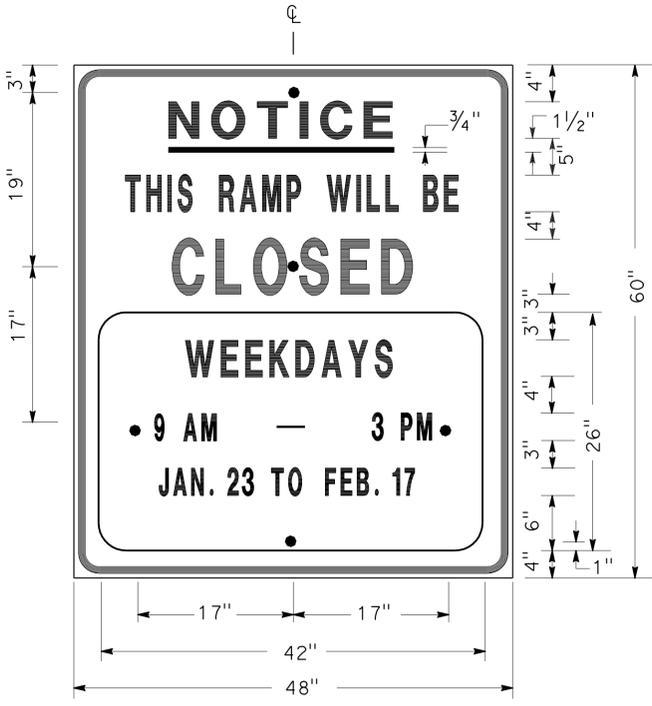
CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	3	17

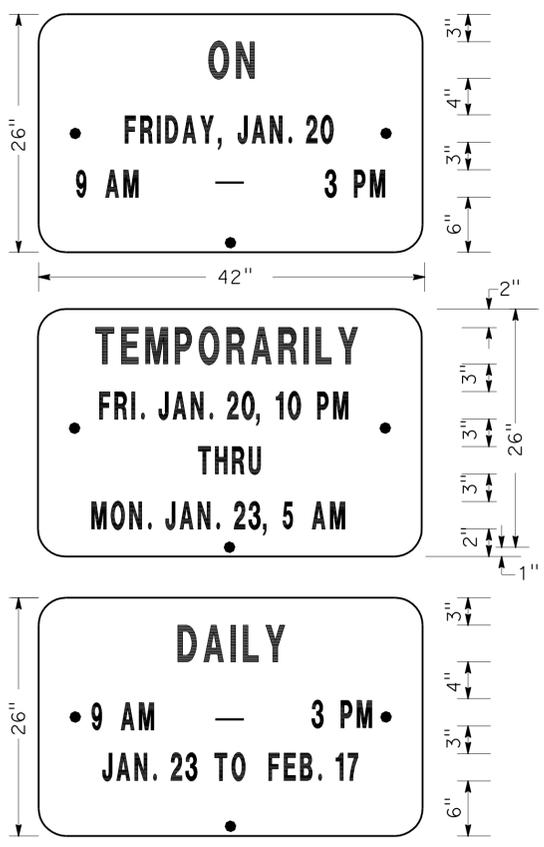
Denis Katayama 4-23-10
 REGISTERED CIVIL ENGINEER DATE

12-13-10
 PLANS APPROVAL DATE

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SIGN SP-1



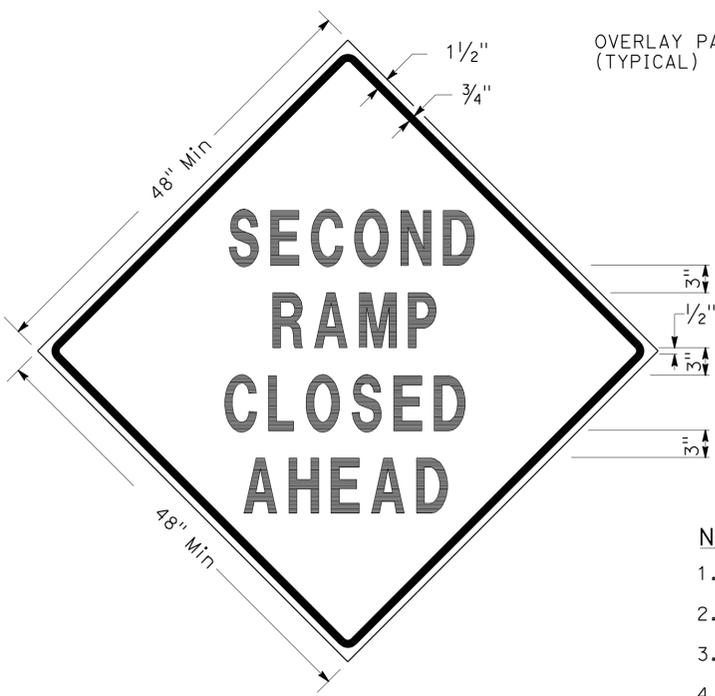
ALTERNATE OVERLAY PANELS (TYPICAL)

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

SIZE	BORDER		LETTER SIZE					CORNER RADIUS
	WIDTH	MARGIN WIDTH	LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3



SIGN SP-5

- NOTES: (SIGNS SP-3 & SP-5)
- LETTERS - 6" SERIES D.
 - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SPECIAL SIGN FOR EXIT RAMP CLOSURES



SIGN SP-4

OVERLAY PANEL (TYPICAL)

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

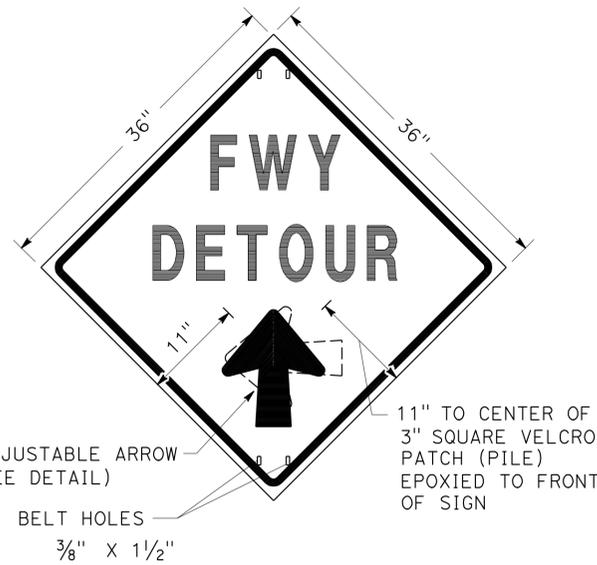
SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

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

SHEET 1 OF 2

NO SCALE

THD-1



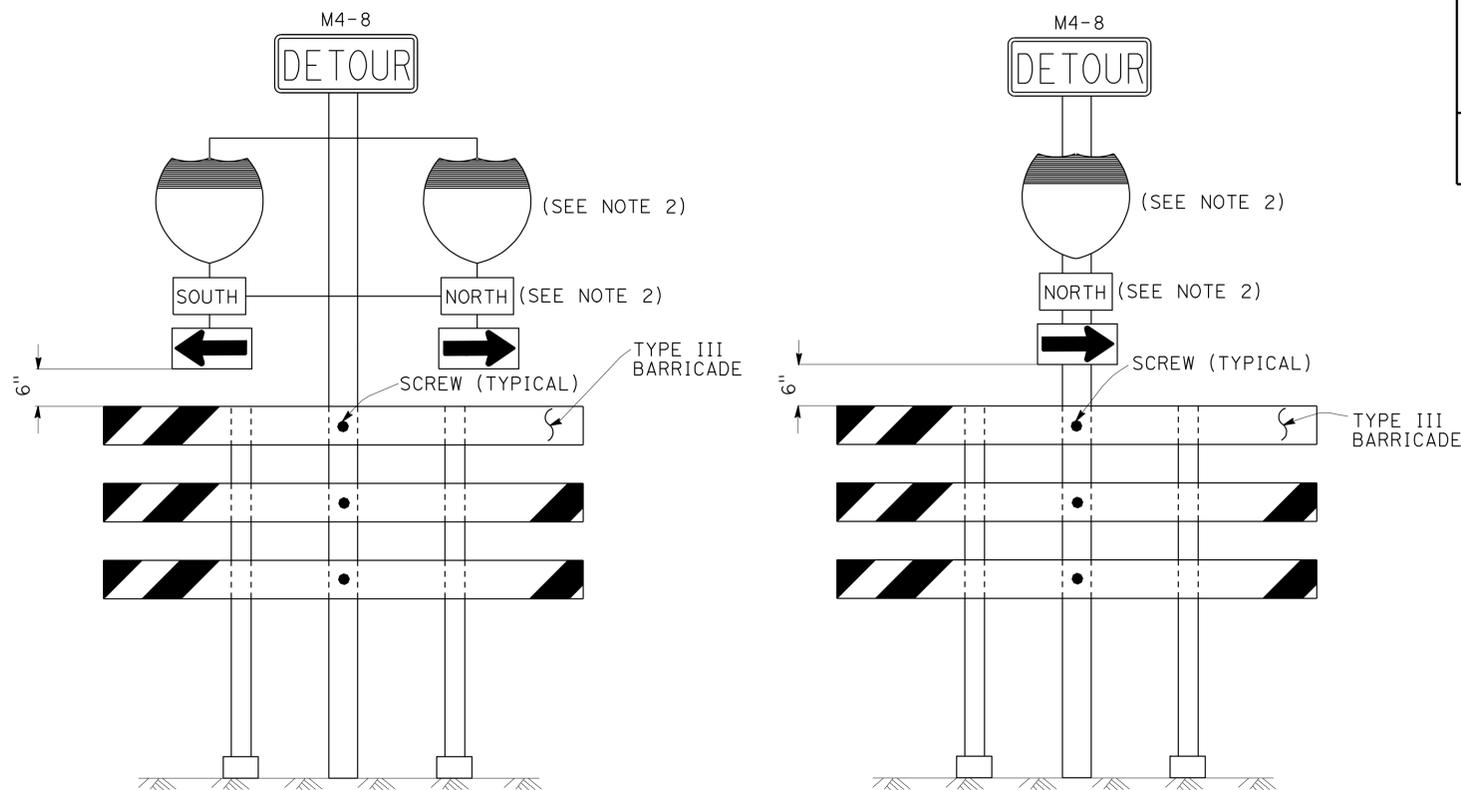
SIGN SP-2

NOTES: (SIGN SP-2)

- LETTERS -6" SERIES E.
- LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
- BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
- BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
- 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



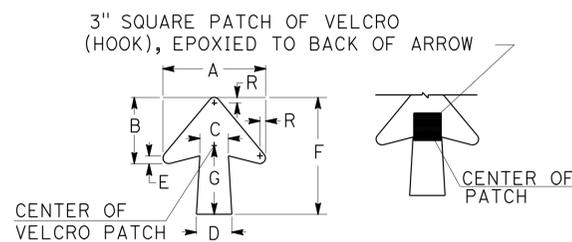
SIGN SP-6 (SEE NOTE 1)

SIGN SP-7 (SEE NOTE 1)

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

- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
- 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



ADJUSTABLE ARROW DETAIL

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

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

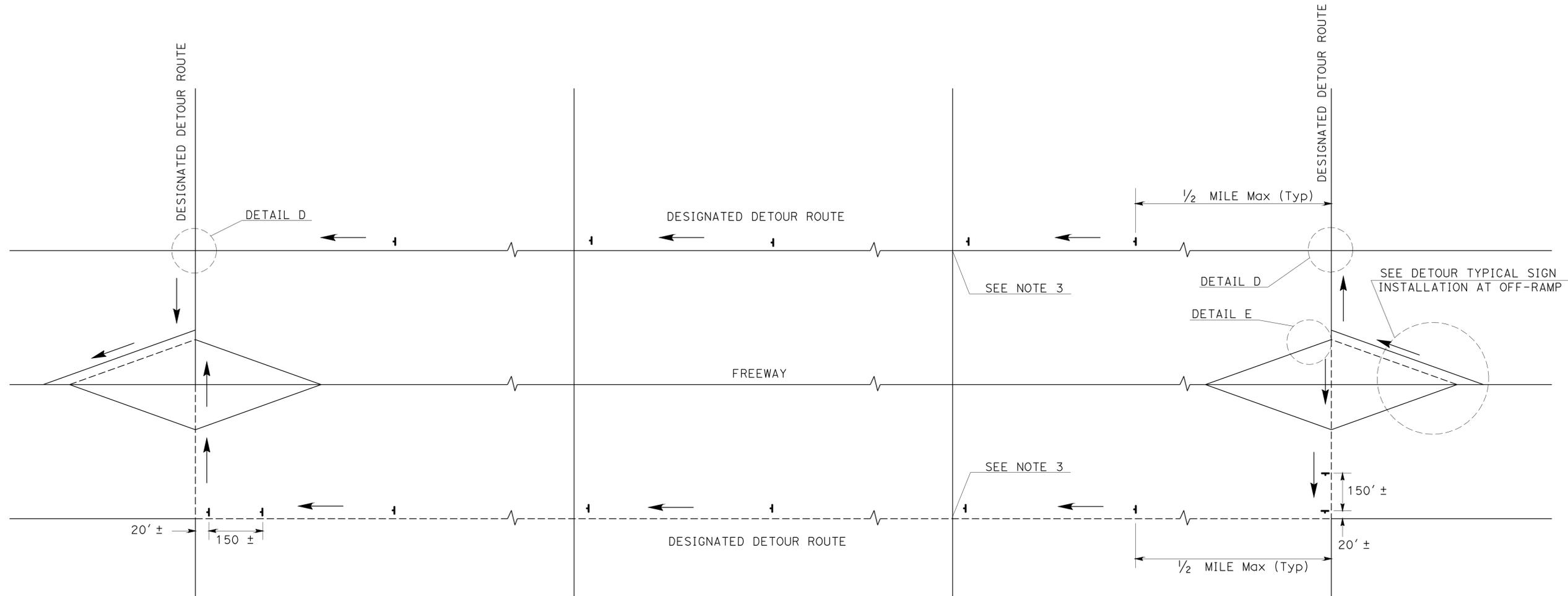
THD-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	5	17

Denis Katayama 4-23-10
 REGISTERED CIVIL ENGINEER DATE
 12-13-10
 PLANS APPROVAL DATE

D.S. KATAYAMA
 No. C50648
 Exp. 9-30-11
 CIVIL

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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 1/2 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

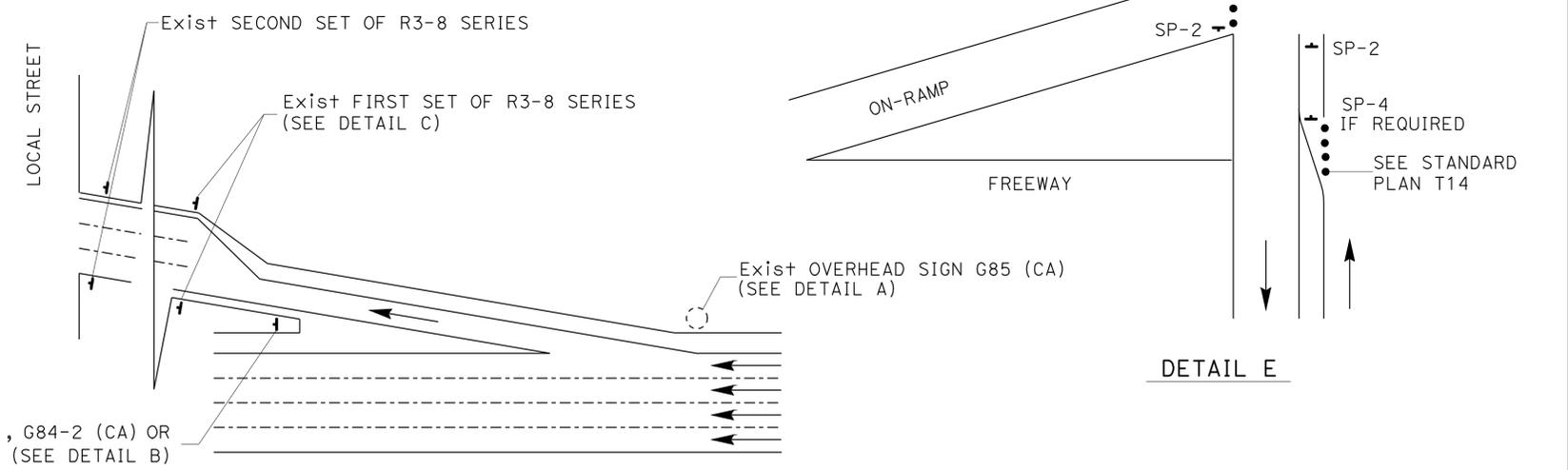
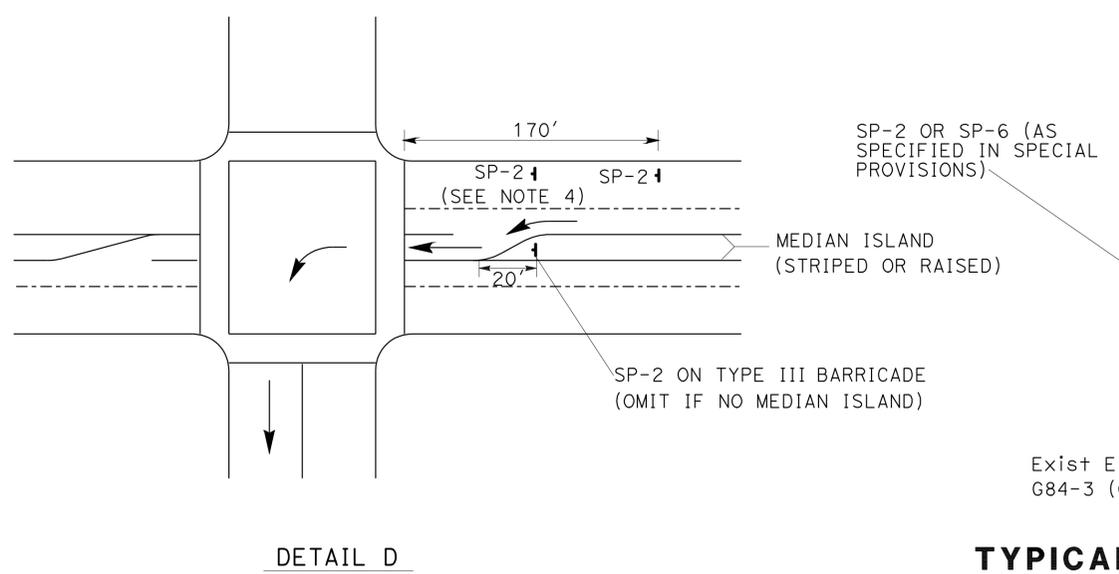
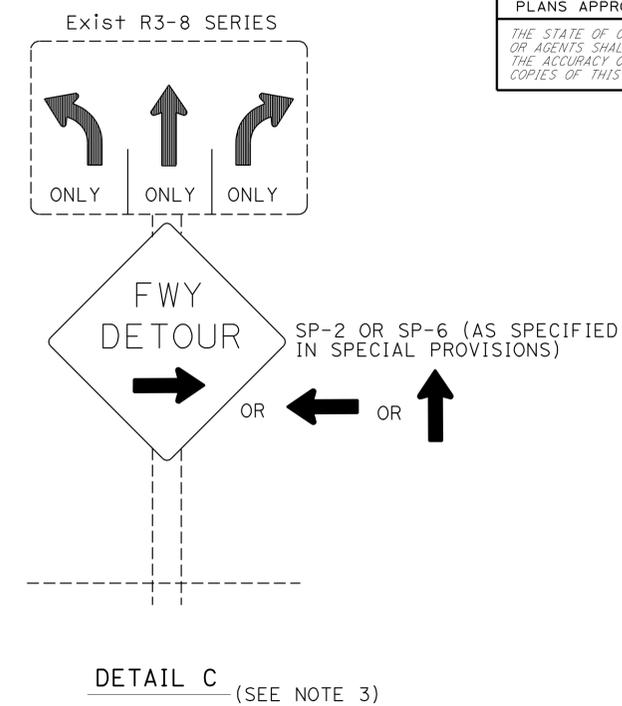
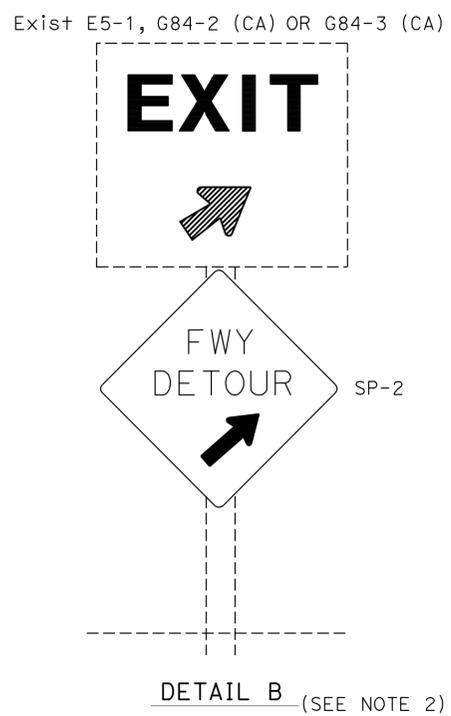
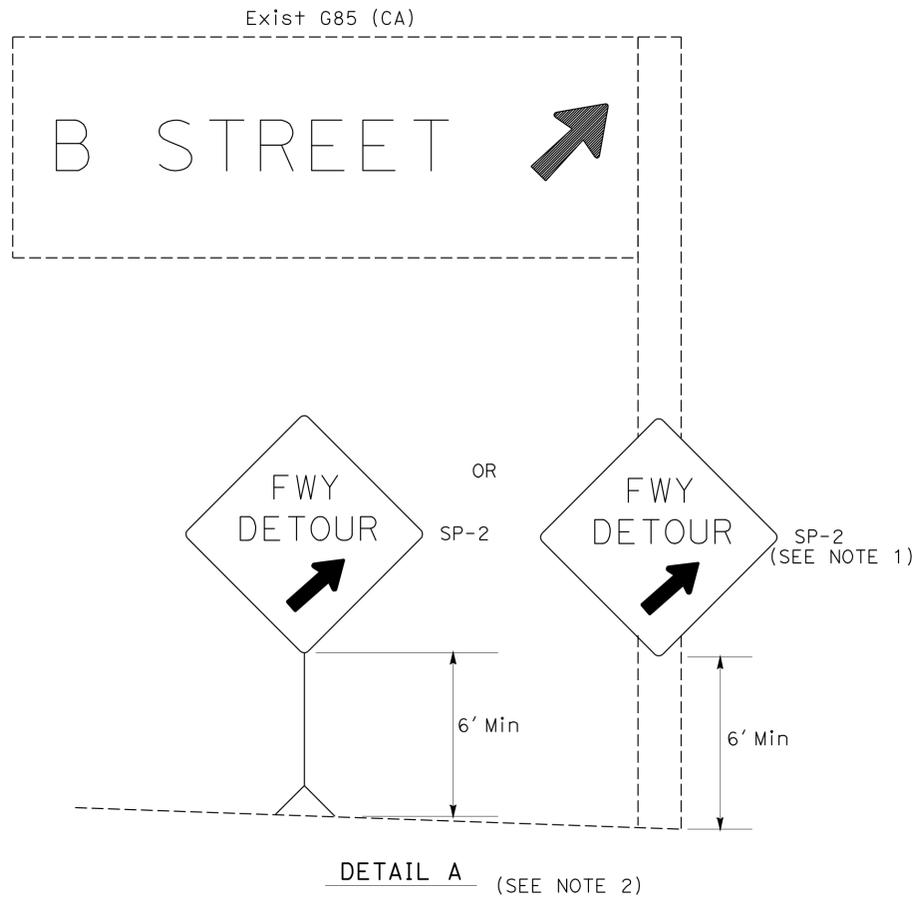
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY JOEELYN C CHIANG
 REVISIONS:
 JC 7/08
 JC 9/08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	47	0.9/2.0	6	17

Denus Katayama 4-23-10
 REGISTERED CIVIL ENGINEER DATE
 12-13-10
 PLANS APPROVAL DATE

D.S.
 KATAYAMA
 No. C50648
 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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DTM

ALBERT K YU

JOEELYN C CHIANG

JOHN YANG

JC

JC

REVISOR

DATE

DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR

DATE PLOTTED => 06-DEC-2010

TIME PLOTTED => 10:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	7	17

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

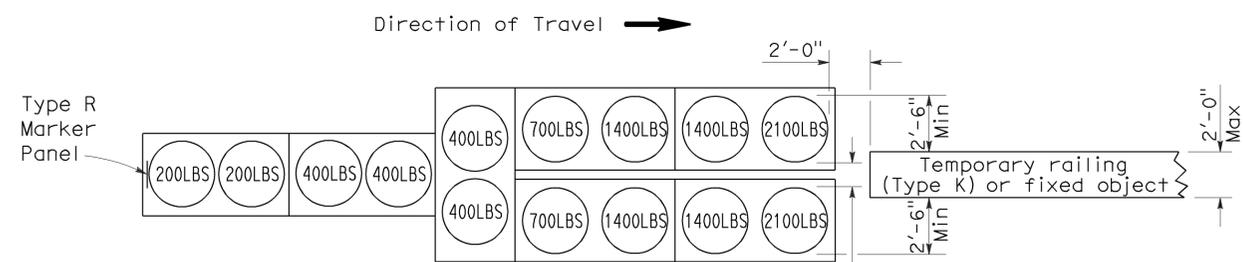
June 6, 2008
PLANS APPROVAL DATE

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

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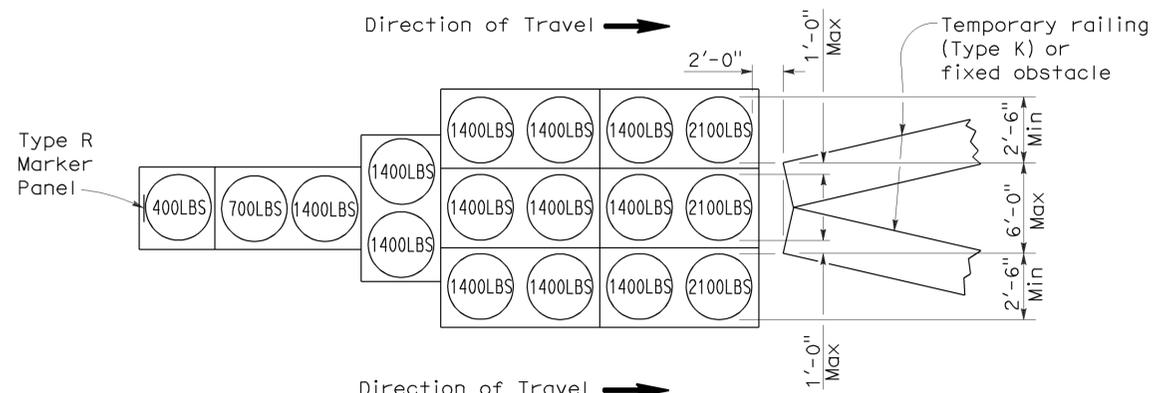
To accompany plans dated 12-13-10

2006 REVISED STANDARD PLAN RSP T1A



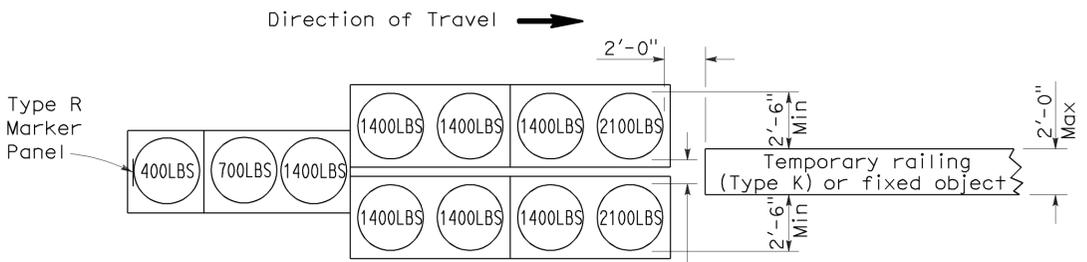
ARRAY 'TU14'

Approach speed 45 mph or more



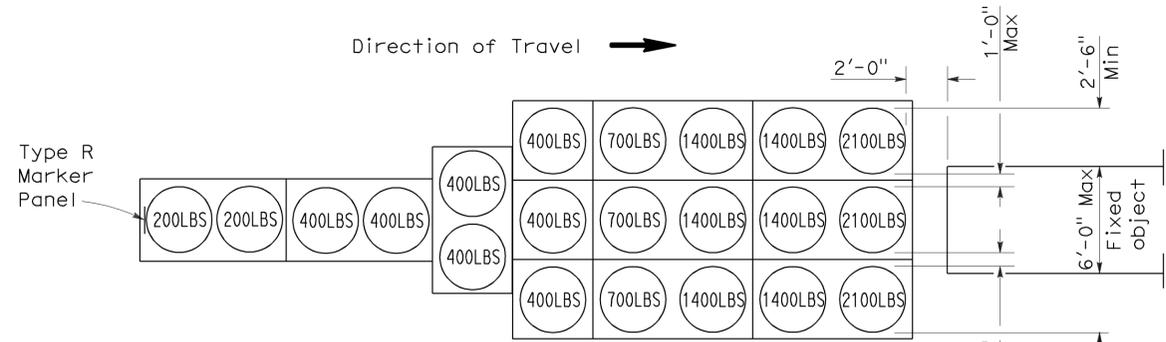
ARRAY 'TU17'

Approach speed less than 45 mph



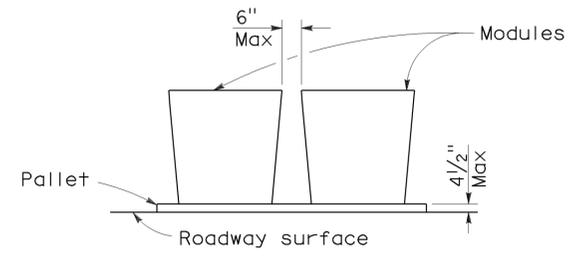
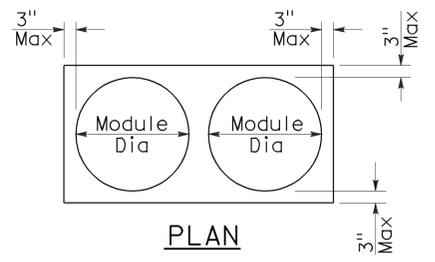
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

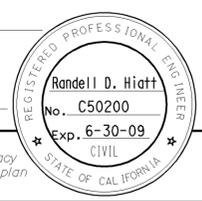
REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	8	17

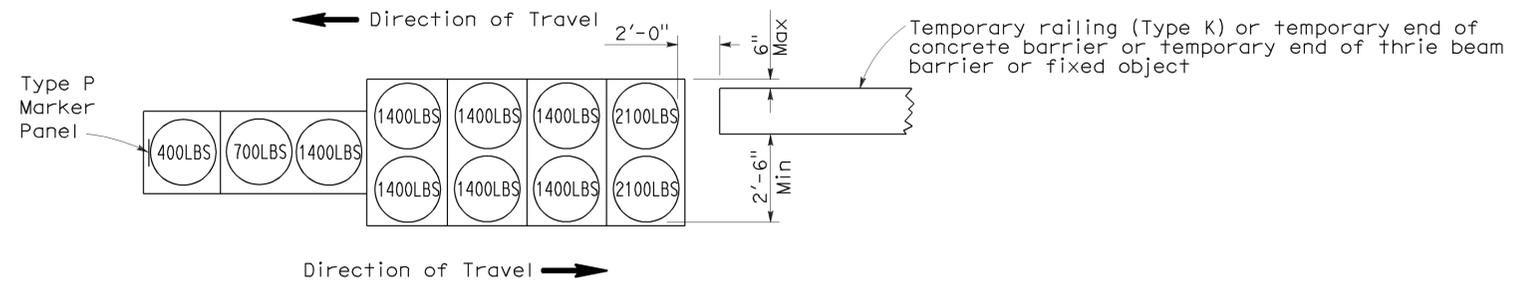
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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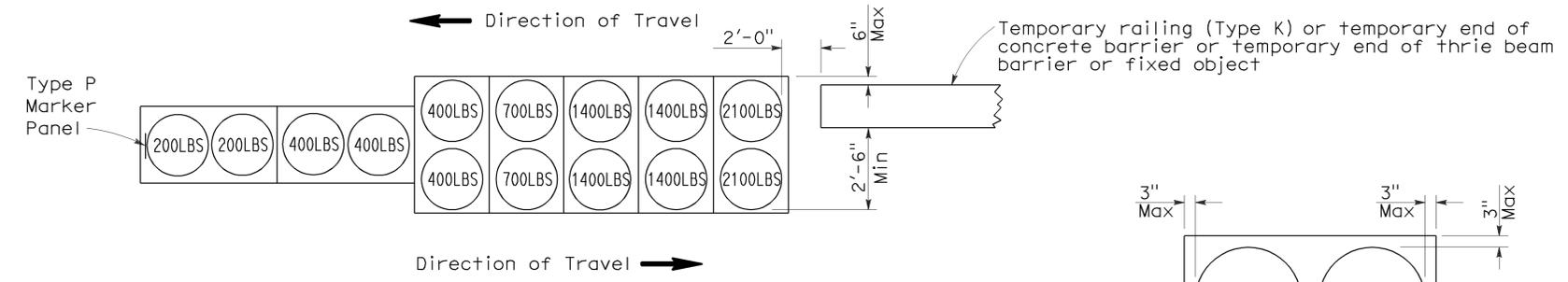


To accompany plans dated 12-13-10



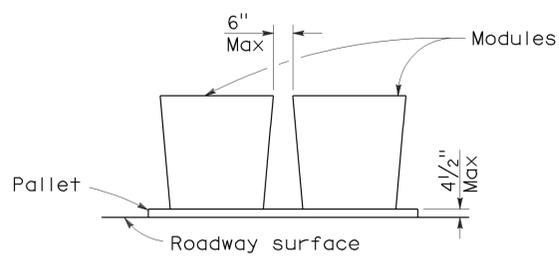
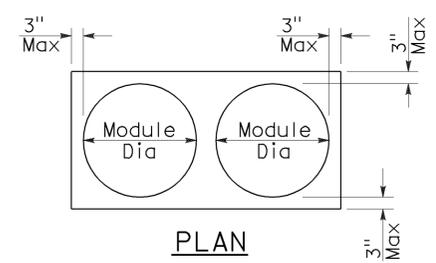
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the 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

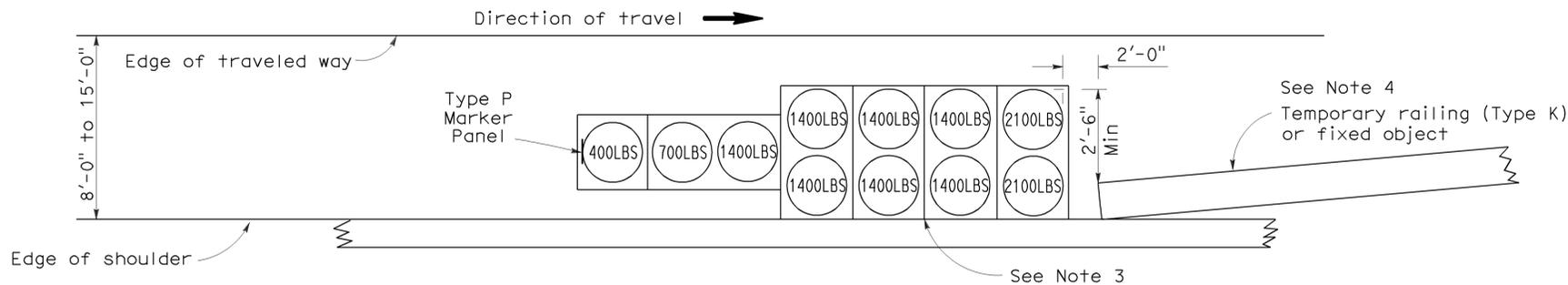
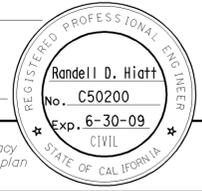
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	9	17

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

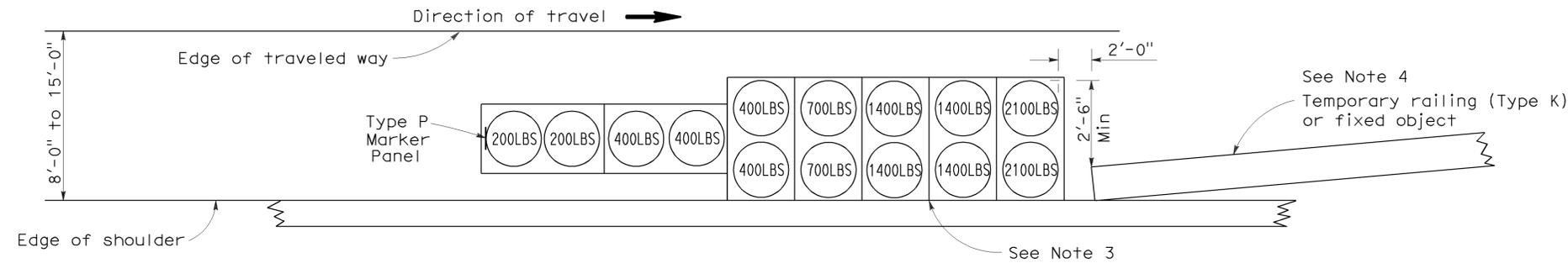
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated 12-13-10



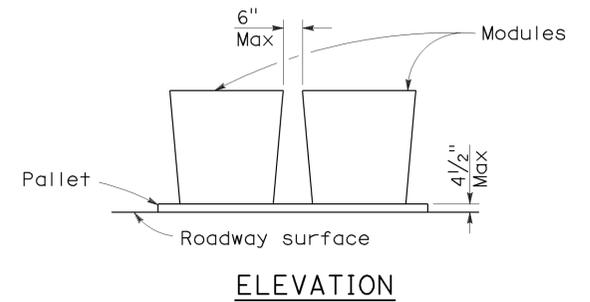
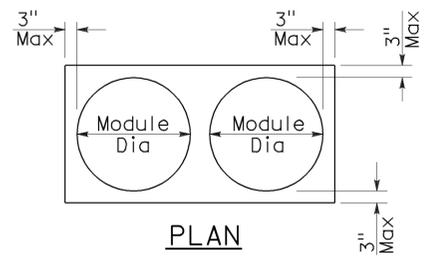
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

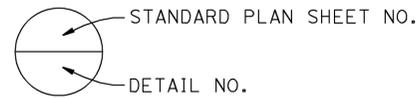
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

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)



INDEX TO PLANS

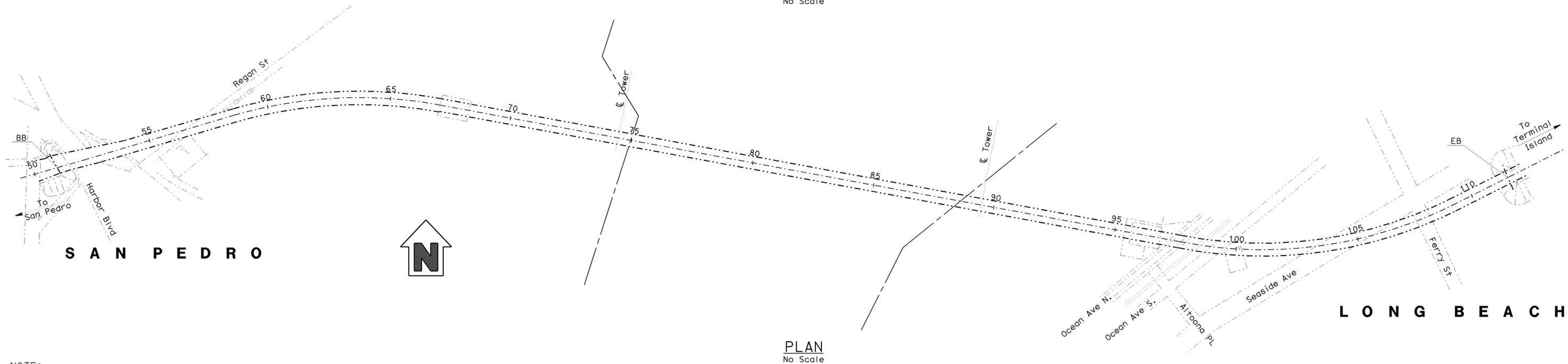
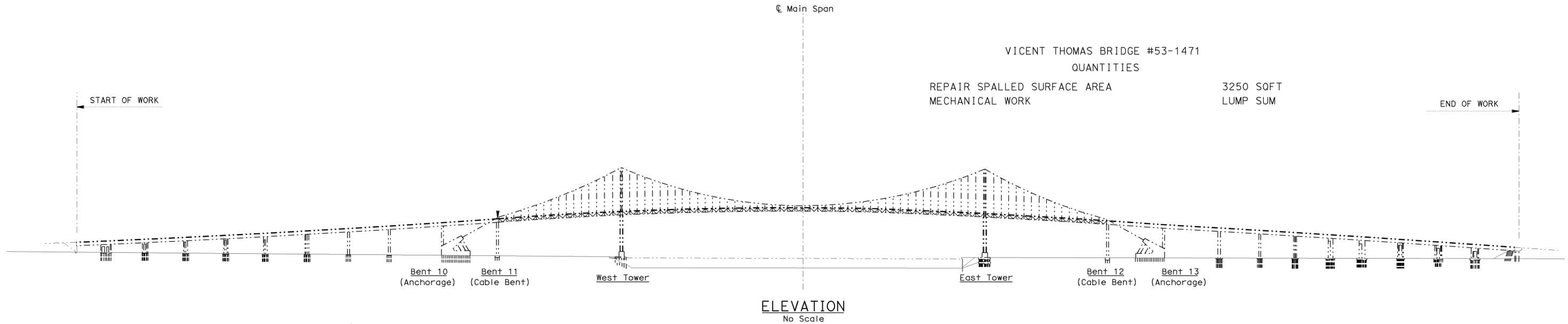
SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	SPALL REPAIR DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	10	17

REGISTERED CIVIL ENGINEER DATE 09-09-10
 PLANS APPROVAL DATE 12-13-10
 No. C69896
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM

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



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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN
--	---

BRIDGE NO.	53-1471	VINCENT THOMAS BRIDGE GENERAL PLAN NO. 1
POST MILE	0.86	

USERNAME => s117283 DATE PLOTTED => 29-SEP-2010 TIME PLOTTED => 09:28
 FILE => 07-4Y3301-a-gp01.dgn

LEGEND:

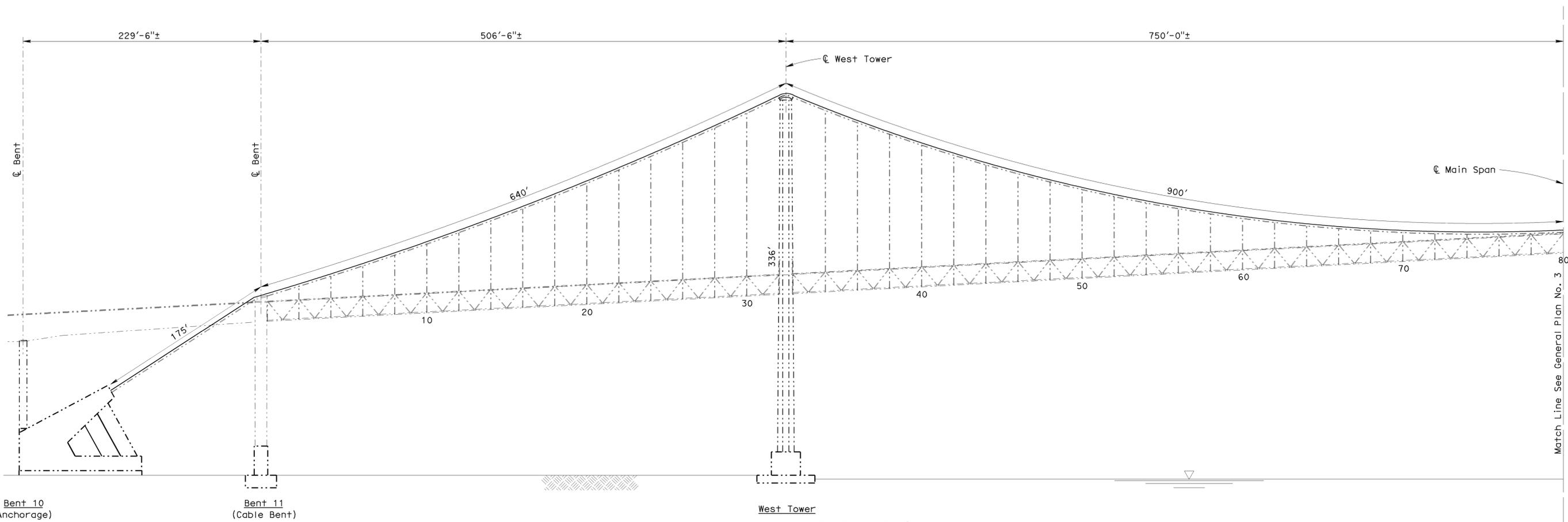
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	11	17

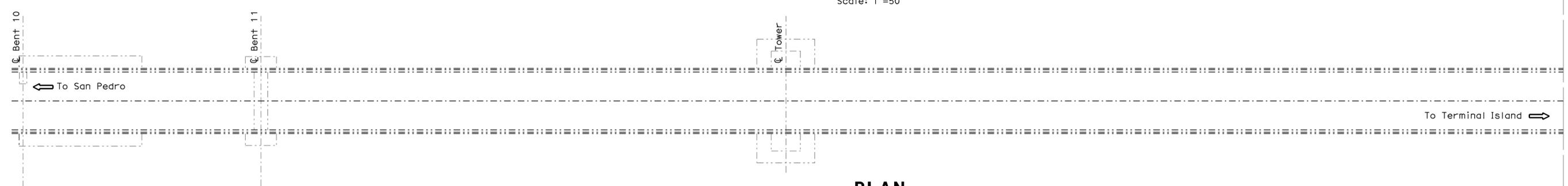
REGISTERED CIVIL ENGINEER DATE 09-09-10
 PLANS APPROVAL DATE 12-13-10
 No. C69896
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM

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ELEVATION
Scale: 1"=50"



PLAN
Scale: 1"=50"

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VINCENT THOMAS BRIDGE GENERAL PLAN NO. 2	
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED		Theresa Nedwick
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 4Y3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 05-18-10 06-09-10 08-26-10 08-31-10 09-09-10	SHEET 02 OF 04

LEGEND:

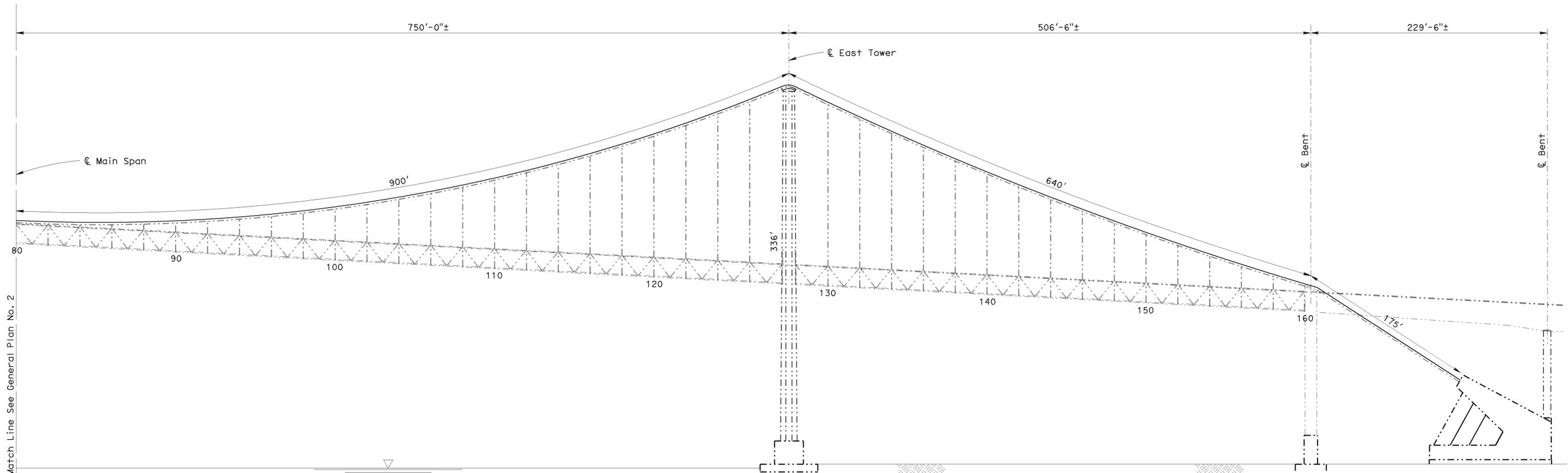
----- Indicates existing.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	12	17

REGISTERED CIVIL ENGINEER DATE 09-09-10
 PLANS APPROVAL DATE 12-13-10
 No. C69896
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM

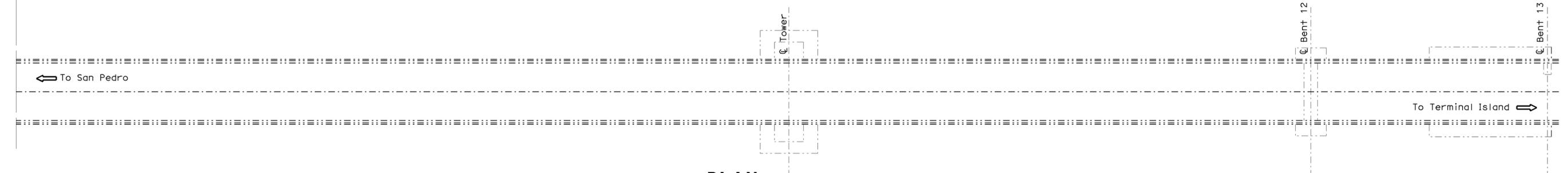
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ELEVATION

Scale: 1"=50'



PLAN

Scale: 1"=50'

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	53-1471	VINCENT THOMAS BRIDGE GENERAL PLAN NO. 3
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			POST MILE	0.86	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED	Theresa Nedwick	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 07
EA 4Y3301

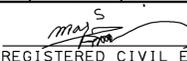
DISREGARD PRINTS BEARING EARLIER REVISION DATES

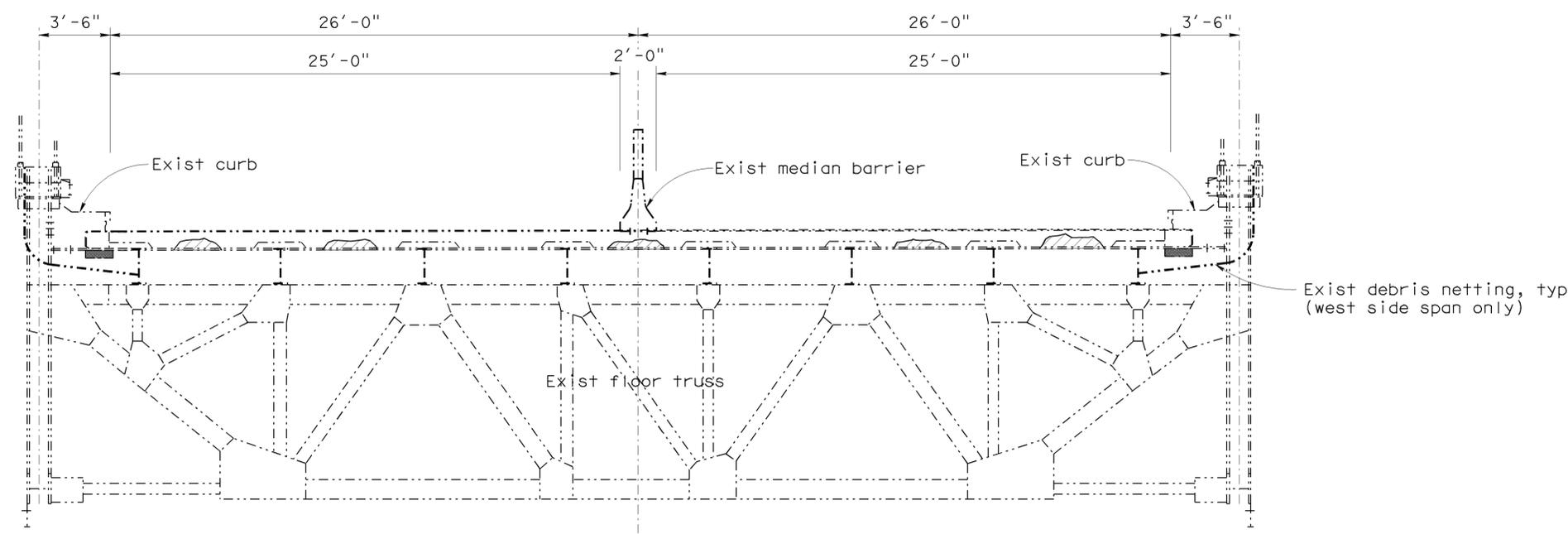
05-18-10	06-09-10	08-26-10	08-31-10	09-09-10
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SHEET 03 OF 04

FILE => 07-4Y3301-a-gp03.dgn

USERNAME => s117283 DATE PLOTTED => 29-SEP-2010 TIME PLOTTED => 09:29

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	47	0.9/2.0	13	17
 REGISTERED CIVIL ENGINEER DATE 09-09-10					
PLANS APPROVAL DATE 12-13-10 <small>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.</small> Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov					



TYPICAL CROSS SECTION
NO SCALE

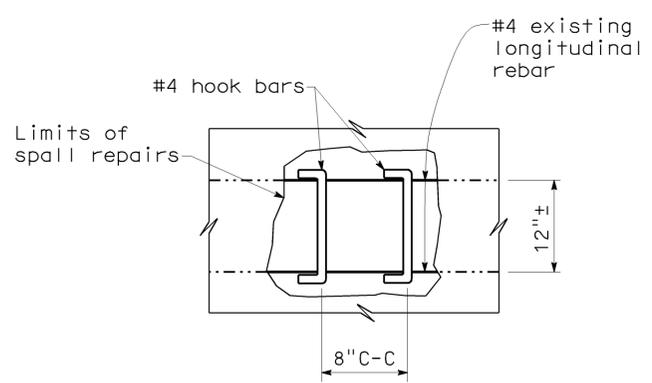
LEGEND:

 Soffit spall repair

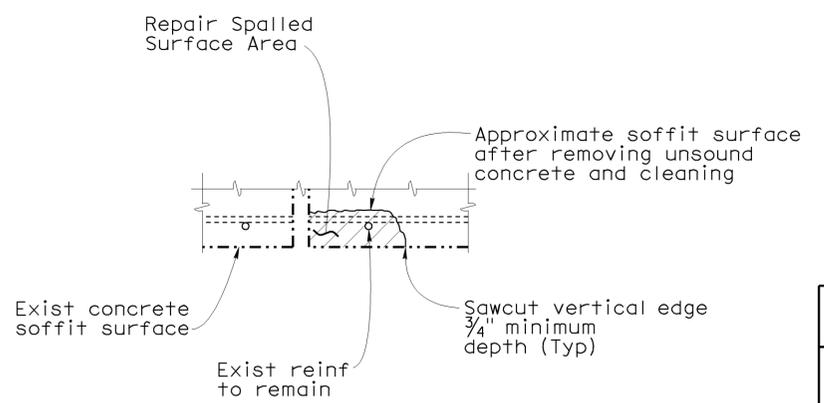
NOTES:

SOFFIT SPALL REPAIR

1. Patch the deck soffit overhang spalls and chunks of spalls near overhang joint seals. If the patching thickness is thicker than 5", install #4 hooked bars @ 8" o.c., See "HOOK BAR DETAIL".
2. The location of soffit spalls to be determined by the engineer.



HOOK BAR DETAIL
No Scale



SOFFIT SPALL REPAIR DETAIL
Note: Reinforcement may be encountered during soffit concrete removal and is to remain undamaged.

DECK SOFFIT REPAIR TABLE					
BRIDGE NAME	BRIDGE No.	APPROX. AREA (%) DAMAGED	APPROX. DEPTH (INCHES)	REMOVE UNSOUND CONCRETE (SQFT)	RAPID SETTING CONCRETE PATCH (SQFT)
Vincent Thomas Bridge	53-1471	1	2	3250	3250

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

DESIGN BY Mazin Ibrahim CHECKED Ramesh Patel DETAILS BY Clayton Tom CHECKED Mazin Ibrahim QUANTITIES BY Mazin Ibrahim CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 53-1471	VINCENT THOMAS BRIDGE SPALL REPAIR DETAILS
			POST MILE 0.86	
			DISREGARD PRINTS BEARING EARLIER REVISION DATES	
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 4Y3301	REVISION DATES 05-18-10 06-09-10 07-26-10 08-26-10 08-31-10 09-09-10	SHEET 04 OF 04

USERNAME => s117283 DATE PLOTTED => 29-SEP-2010 TIME PLOTTED => 09:29

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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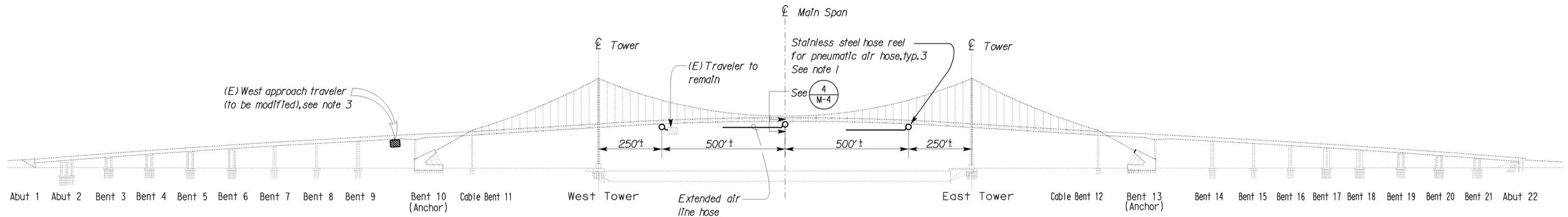

 REGISTERED MECHANICAL ENGINEER DATE 08/25/10
 No. M21648
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

12-13-10
PLANS APPROVAL DATE

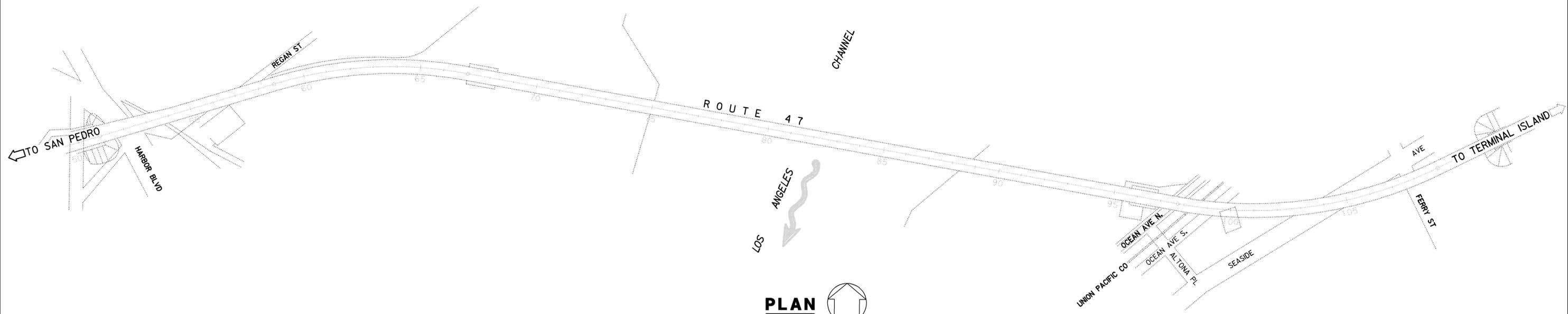
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- Note:**
1. Stainless steel hose reel to be mounted on structural I-beam and adjacent to catwalk area. Locations shown are approximate. For details, see M-4
 2. Hose on each Stainless Steel Wheel Reel shall extend to a minimum of 250 feet.
 3. West approach Traveler service between Abutment 2 and Bent 10 below the bridge. Location may be moved.

- Abbreviations**
- Typ. Typical
 - Ⓟ Plate
 - Ⓢ Centerline
 - GSP Galvanized Steel Pipe
 - H.S. High Strength
 - NPS Nominal Pipe Size
 - (E) Existing



ELEVATION



PLAN
NO SCALE

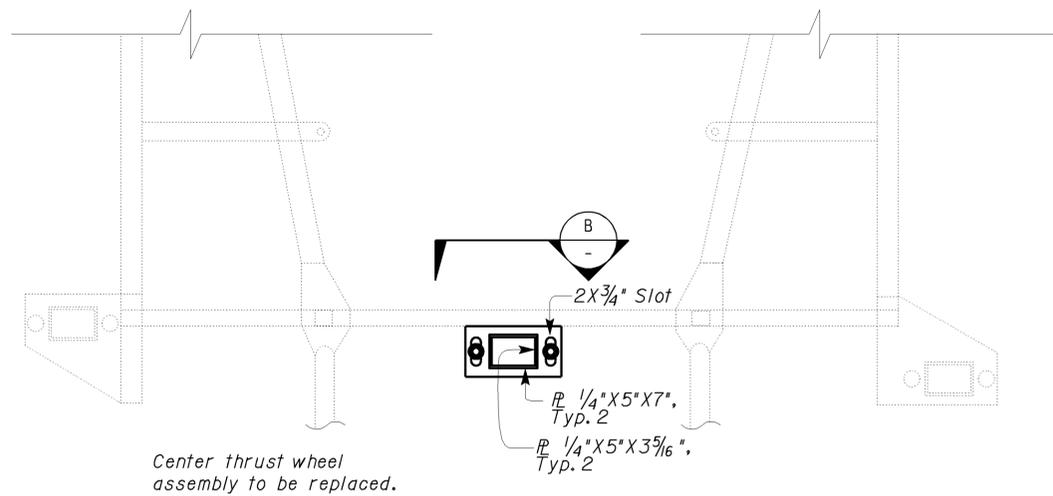
 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN BY Jack Wheeler	CHECKED Jesus Ramirez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. -	VINCENT THOMAS BRIDGE MECHANICAL PLAN	SHEET
	DETAILS BY J. Ramirez/J. Stangl	CHECKED Jesus Ramirez		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 0.9/2.0		M-1
QUANTITIES BY Jack Wheeler	CHECKED Jesus Ramirez	UNIT 3615		PROJECT NUMBER & PHASE 07000202141	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY)	
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	EA 4Y3301	4/8/10 5/12/10 5/16/10 8/25/10	01 04	22-NOV-2010 16:43	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	15	17

REGISTERED MECHANICAL ENGINEER
 DATE 08/25/10
 Jack Wheeler
 No. M21648
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

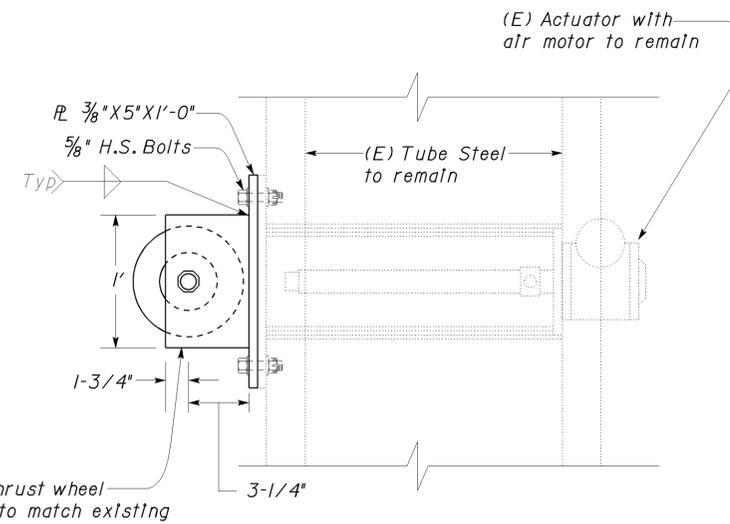
12-13-10
 PLANS APPROVAL DATE

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Center thrust wheel assembly to be replaced.

SECTION A
NO SCALE

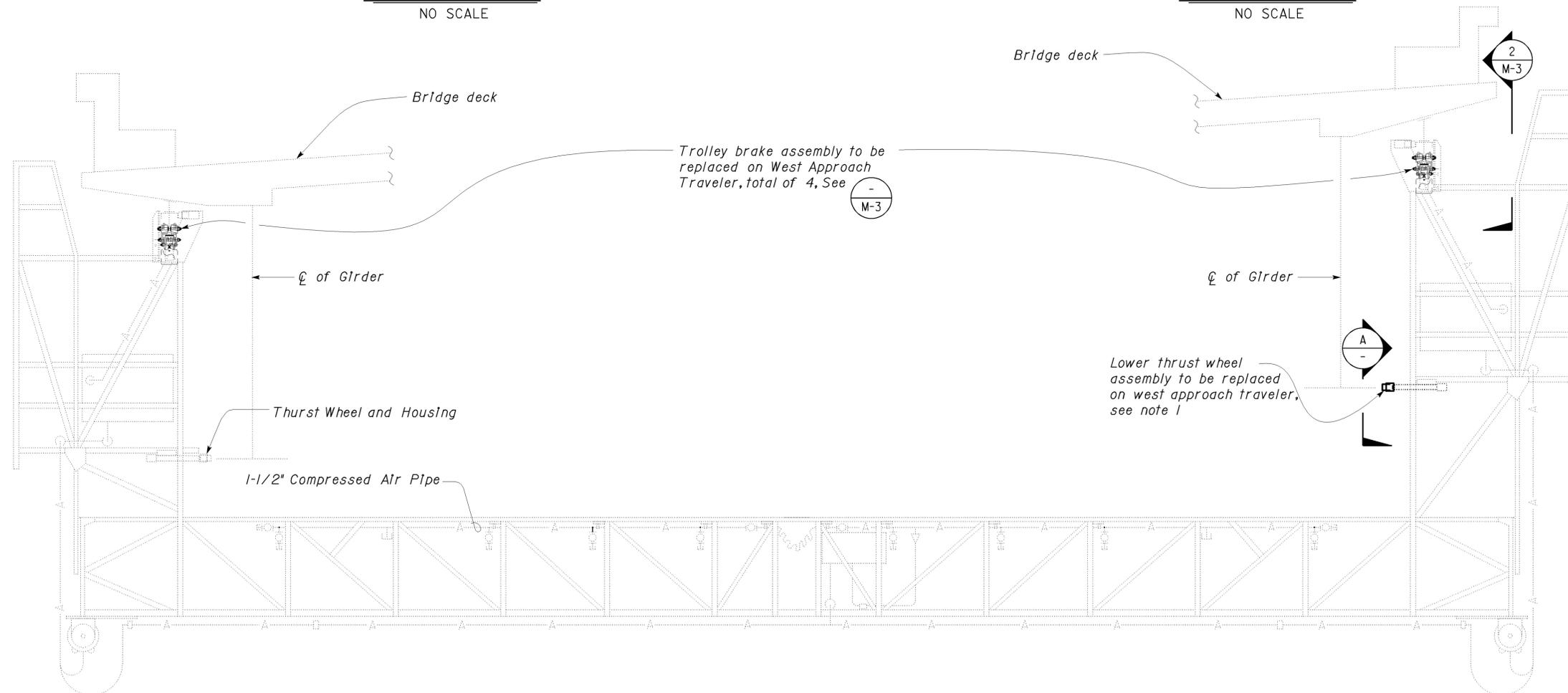


Install new thrust wheel and housing to match existing

SECTION B
NO SCALE

Notes:

- 6" Dia. x 2-1/2" forged steel wheel with a hub length of 3-1/2" and a 1" Dia. axle bolt with grease fitting.
- Air Brake Trolley Installations Is for West Approach Traveler only.



ELEVATION TRAVELER (WORKING POSITION)
NO SCALE

DESIGN	BY Jack Wheeler	CHECKED Jesus Ramirez
DETAILS	BY J. Ramirez/J. Stangl	CHECKED Jesus Ramirez
QUANTITIES	BY Jack Wheeler	CHECKED Jesus Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	-
POST MILE	0.9/2.0

VINCENT THOMAS BRIDGE
REPAIR & MODIFICATION FOR EXISTING WEST APPROACH TRAVELER

SHEET M-2



REVISION DATES (PRELIMINARY STAGE ONLY)	4/8/10	5/12/10	5/16/10	8/25/10					
SHEET OF	02	04							

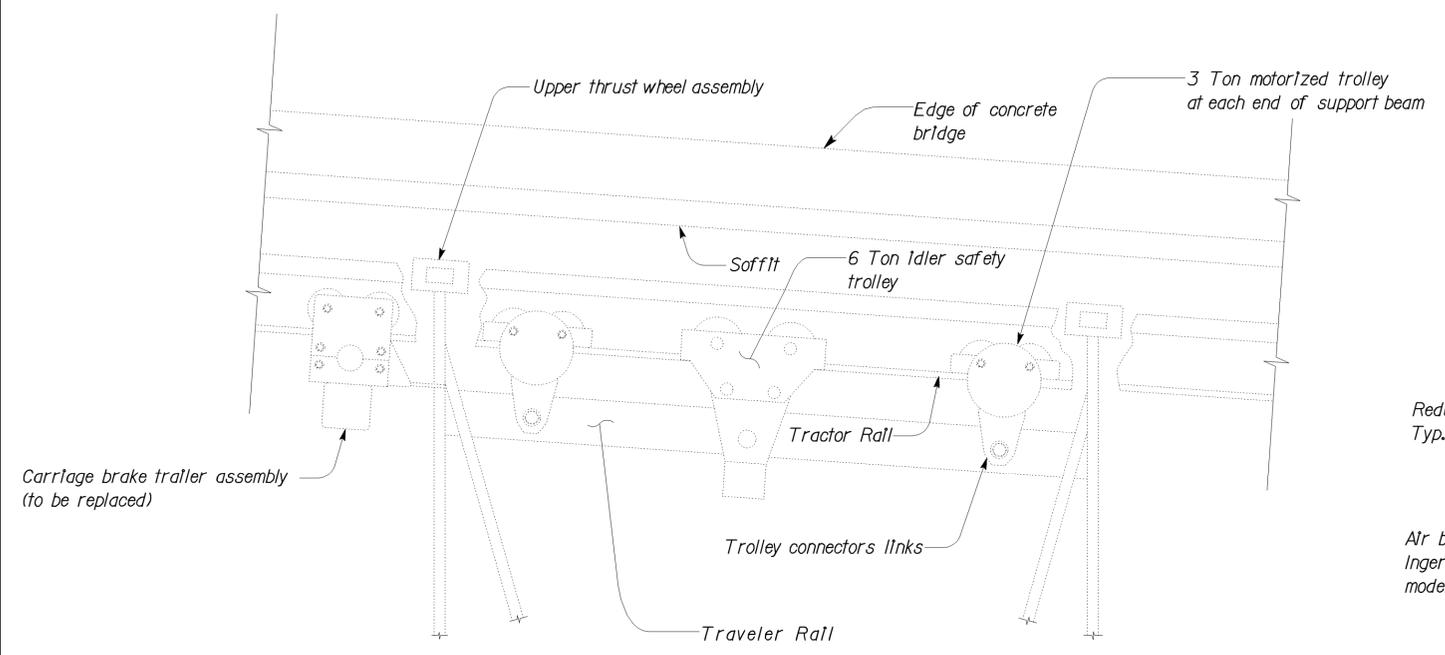
22-NOV-2010 16:43

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	16	17

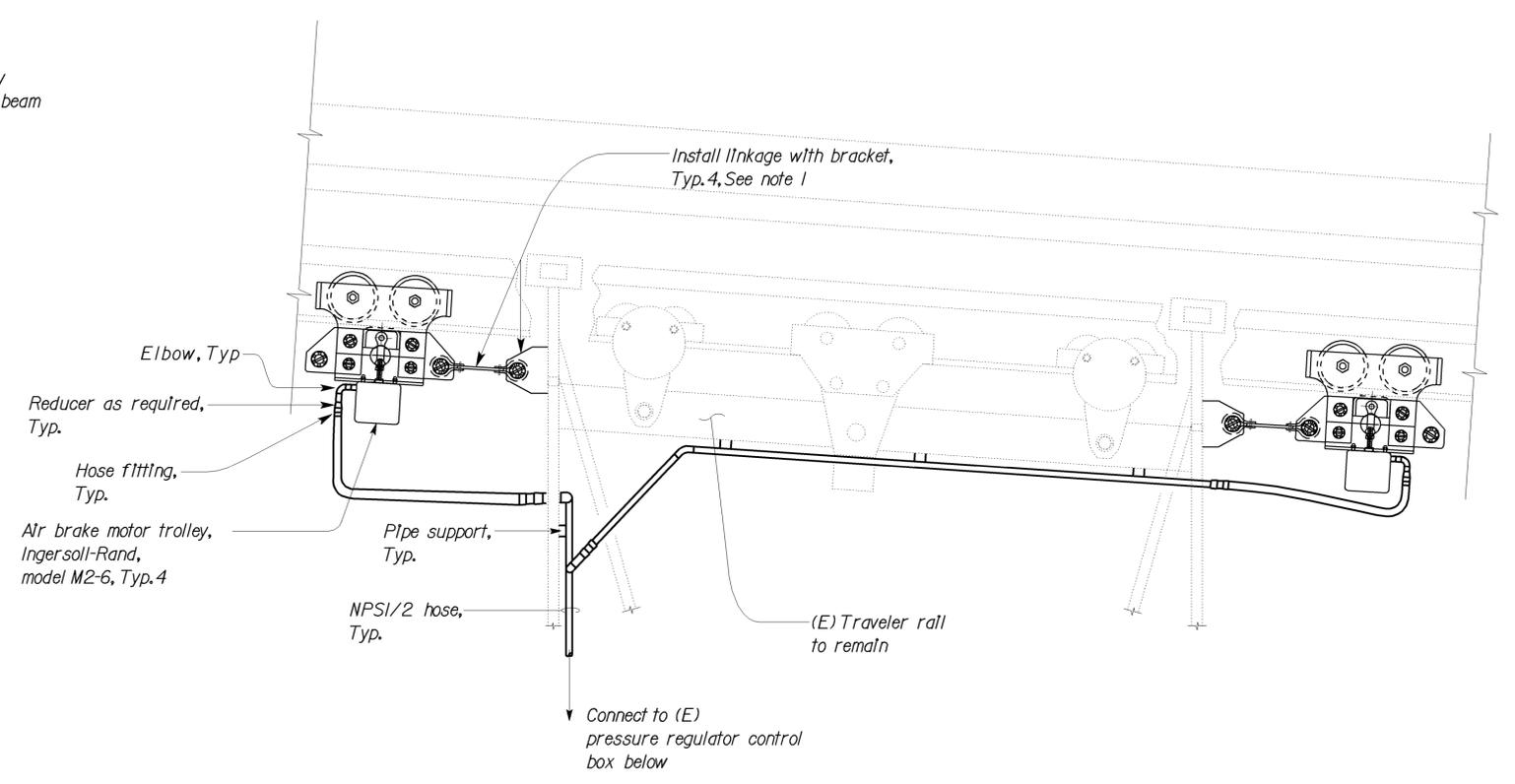
<i>Jack Wheeler</i> REGISTERED MECHANICAL ENGINEER	08/25/10 DATE	
12-13-10 PLANS APPROVAL DATE		

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.

- Notes:
1. Air brake trolley installation typical of 4.
 2. Provide sufficient hose to accommodate traveler movement.
 3. Provide downturned elbow and reducer as required at each equipment connection.
 4. Provide support within 6 inches of each pipe hose connection and at 6 feet intervals minimum.



1 EXISTING BRAKE ASSEMBLY ELEVATION
NO SCALE



2 REPLACED BRAKE ASSEMBLY ELEVATION
NO SCALE

- Note:
1. Provide linkage to connect Air Brake Motor Trolley to existing Traveler structure members. Supports shall be per manufacturer's recommendations and shall be submitted for approval. Linkage to be pinned to provide vertical and horizontal rotation.

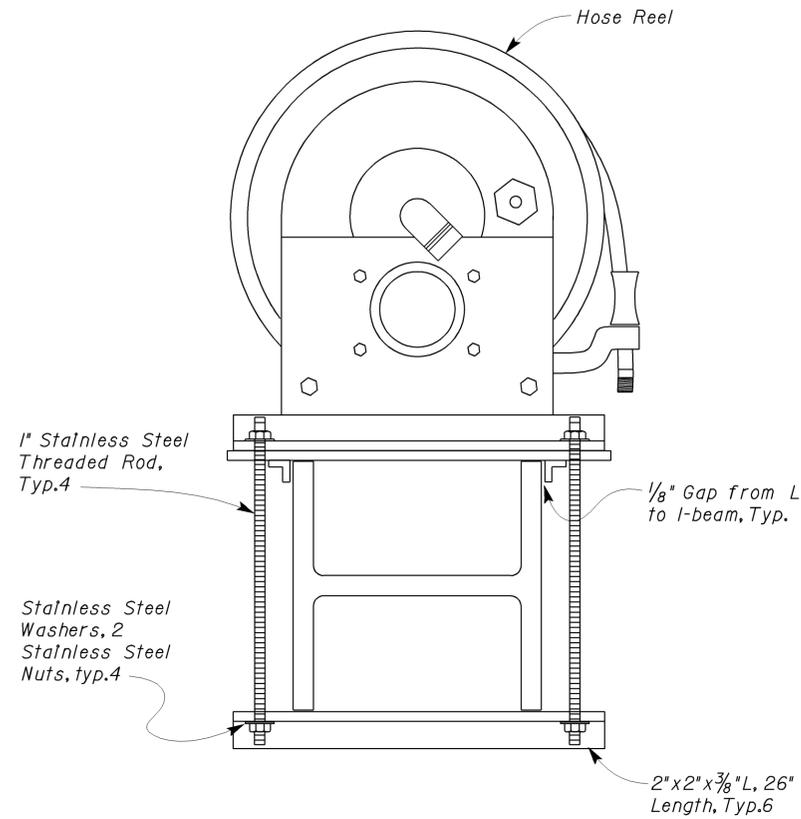
DESIGN BY <i>Jack Wheeler</i>	CHECKED <i>Jesus Ramirez</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. -	VINCENT THOMAS BRIDGE	SHEET M-3
	DETAILS BY <i>J. Ramirez/J. Stangl</i>		CHECKED <i>Jesus Ramirez</i>	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		
QUANTITIES BY <i>Jack Wheeler</i>	CHECKED <i>Jesus Ramirez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT 3615 PROJECT NUMBER & PHASE 07000202141	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4/8/10 5/12/10 5/16/10 8/25/10	SHEET OF 03 04

DOES SD Imperial Rev. 1/07
EA 4Y3301
m_3.dgn

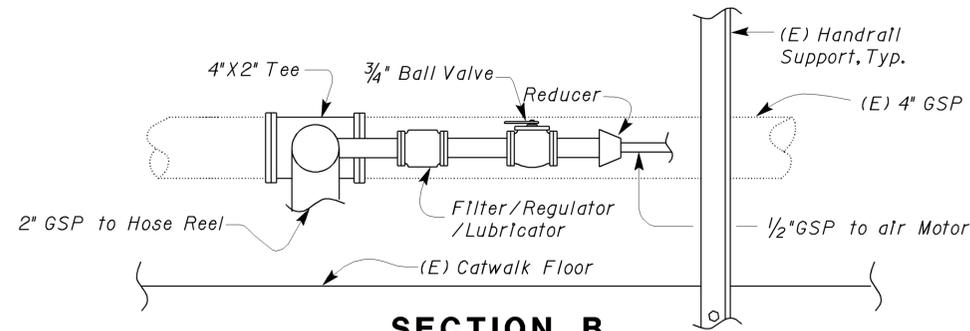
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	47	0.9/2.0	17	17


 08/25/10
 REGISTERED MECHANICAL ENGINEER DATE

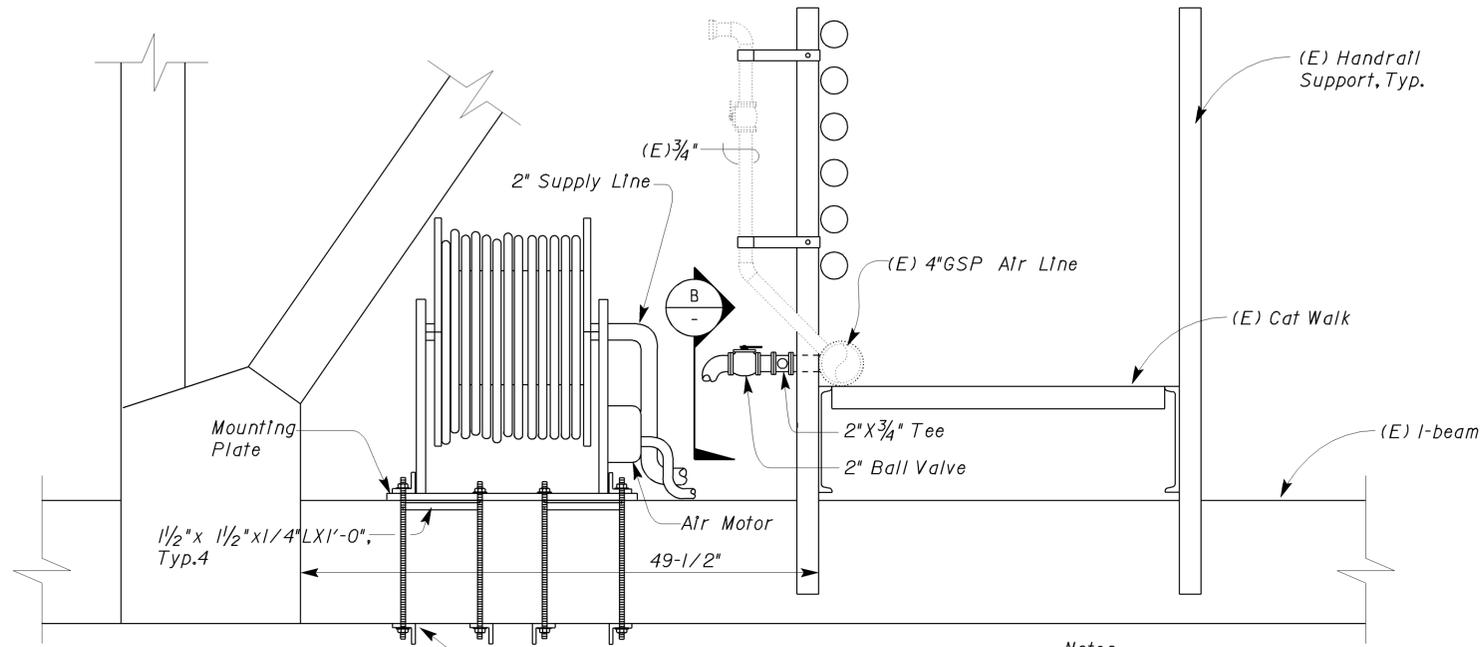
12-13-10
 PLANS APPROVAL DATE
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3 HOSE REEL SUPPORT
NO SCALE

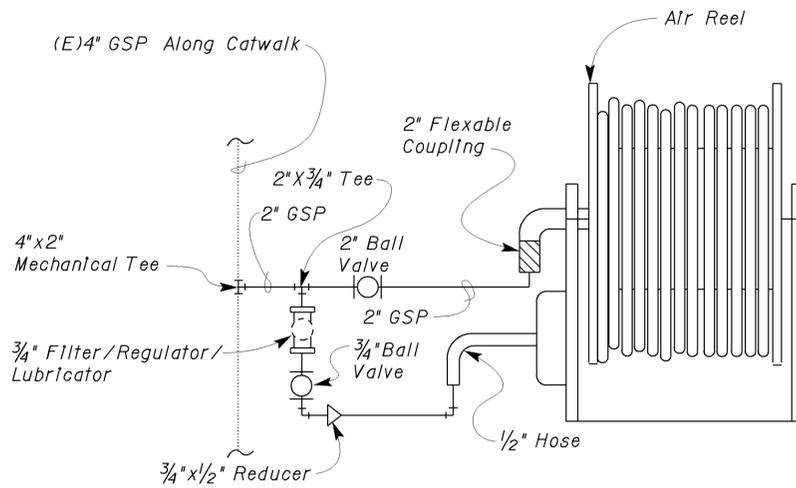


SECTION B
NO SCALE



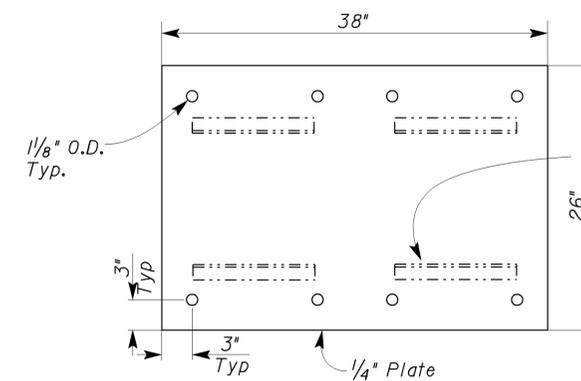
4 HOSE REEL
NO SCALE

Notes:
Support all piping at 2 locations. Min between (E) 4" Air Line and Hose Reel.



5 PIPING SCHEMATIC
NO SCALE

- Notes:
1. Connect 4"X2" Mechanical Tee to (E) 4" Line
 2. Both Ball Valves to be easily accessible from catwalk
 3. Use 2' length of 1/2" hose for connection to air motor



6 MOUNTING PLATE
NO SCALE

- Notes:
1. Dimensions may be modified to match dimension of bridge steel and hose reel selected.
 2. Hose reel mounting holes to match hose reel selected.
 3. Working drawings to be submitted prior to fabrication
 4. Steel to be A-36 unless shown otherwise. A-36 Steel to be hot dip galvanized after fabrication
 5. All bolts, Nuts, and Washers, To be Stainless Steel. All Nuts to be Nutted and locked

NO SCALE

DESIGN	BY Jack Wheeler	CHECKED Jesus Ramirez
DETAILS	BY J. Ramirez/J. Stangl	CHECKED Jesus Ramirez
QUANTITIES	BY Jack Wheeler	CHECKED Jesus Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	-
POST MILE	0.9/2.0

VINCENT THOMAS BRIDGE

HOSE REEL MECHANICAL DETAILS

SHEET M-4