

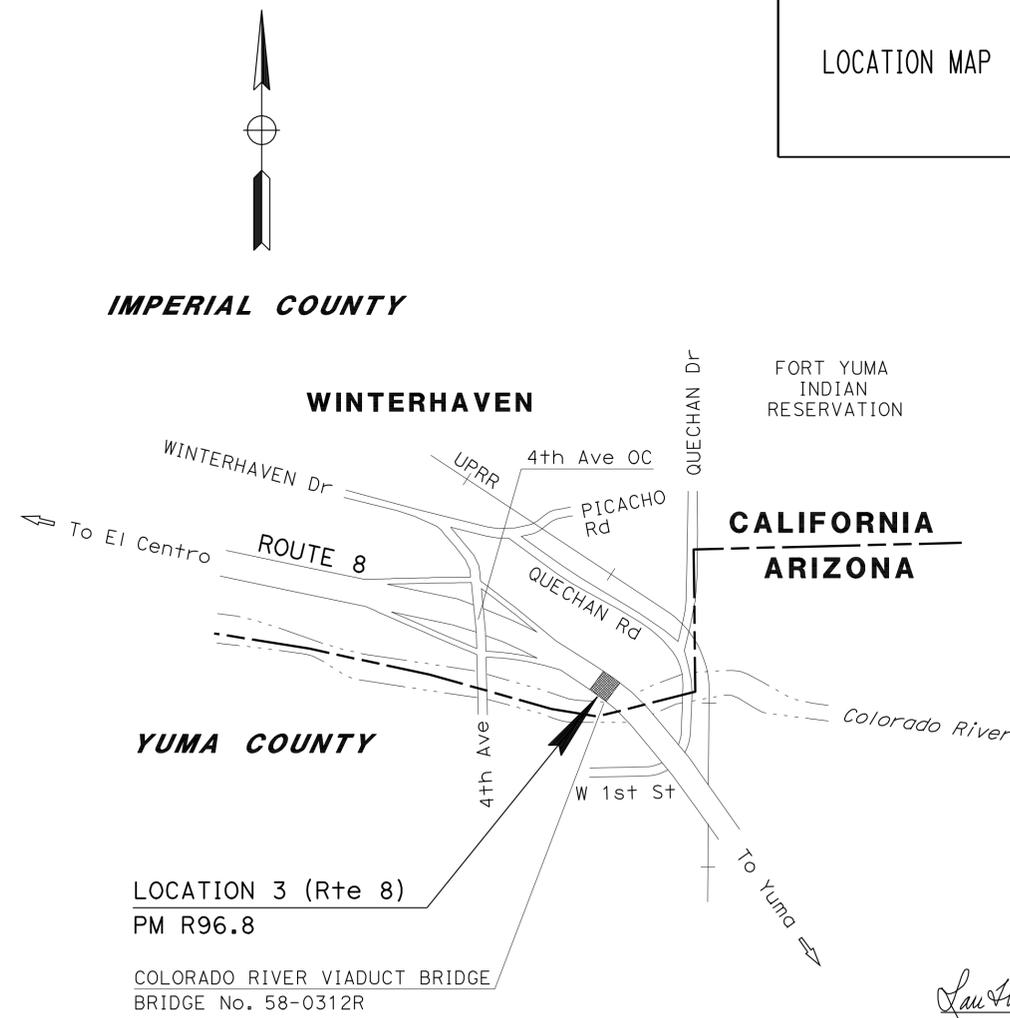
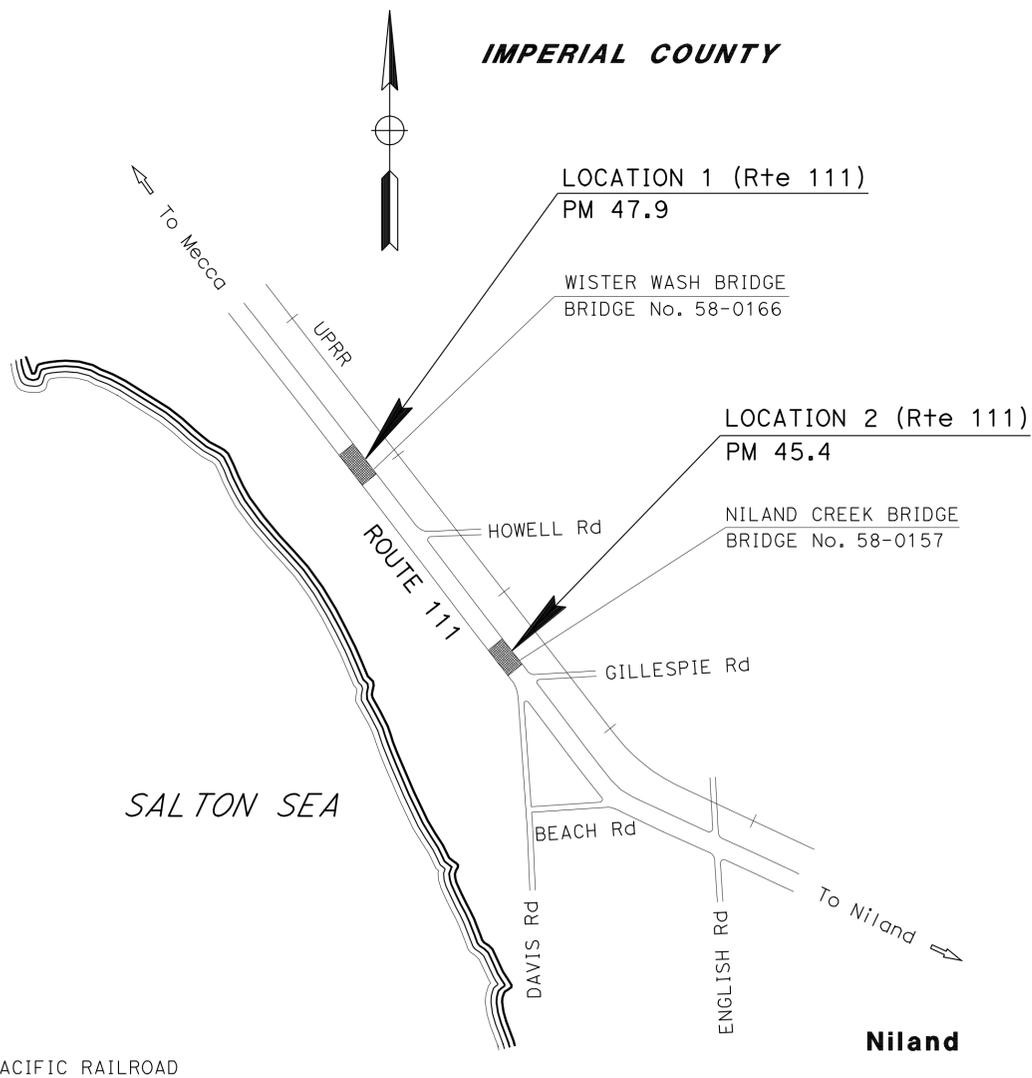
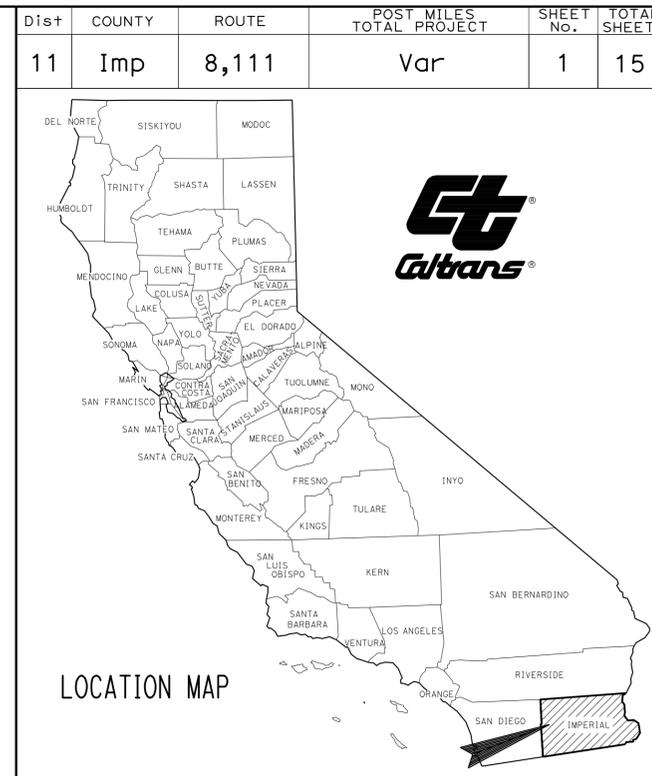
INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6	TRAFFIC HANDLING PLAN
7-10	REVISED AND NEW STANDARD PLANS
STRUCTURE PLANS	
11-13	GENERAL PLAN
14	COLUMN REPAIR DETAILS
15	BEARING REPLACEMENT DETAILS

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 IMPERIAL COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



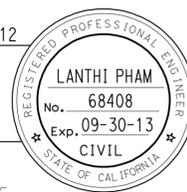
PROJECT MANAGER
ALBERTO GAYON

DESIGN ENGINEER
ALBERTO GAYON

Lanthi Pham 01-26-12
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

February 27, 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.



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

NO SCALE

DATE PLOTTED => 28-FEB-2012 TIME PLOTTED => 15:37

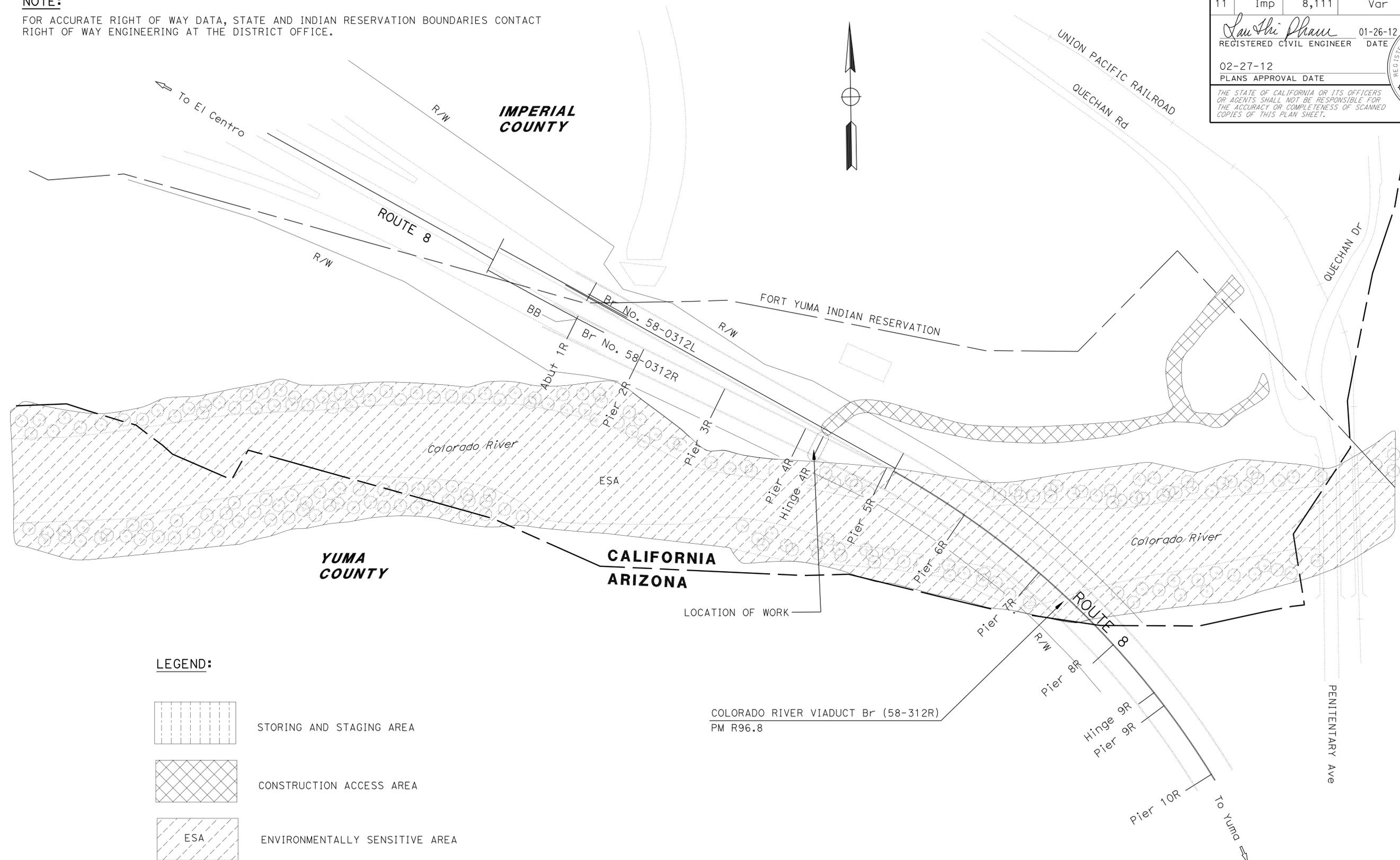
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8,111	Var	2	15

<i>Lan Thi Pham</i>	01-26-12
REGISTERED CIVIL ENGINEER	DATE
02-27-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
LANTHI PHAM
No. 68408
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, STATE AND INDIAN RESERVATION BOUNDARIES CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LEGEND:

	STORING AND STAGING AREA
	CONSTRUCTION ACCESS AREA
	ENVIRONMENTALLY SENSITIVE AREA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CALCULATED/DESIGNED BY: ALBERTO GAYON
 CHECKED BY: ALBERTO GAYON
 LANTHI PHAM
 REVISED BY: ALBERTO GAYON
 DATE REVISED:

CONSTRUCTION DETAILS
 (LOCATION 3)
 SCALE: 1" = 100'
C-1

LAST REVISION: DATE PLOTTED => 29-FEB-2012
 02-22-12 TIME PLOTTED => 11:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8,111	Var	3	15

<i>Lanthi Pham</i>	01-26-12
REGISTERED CIVIL ENGINEER	DATE
02-27-12	
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.

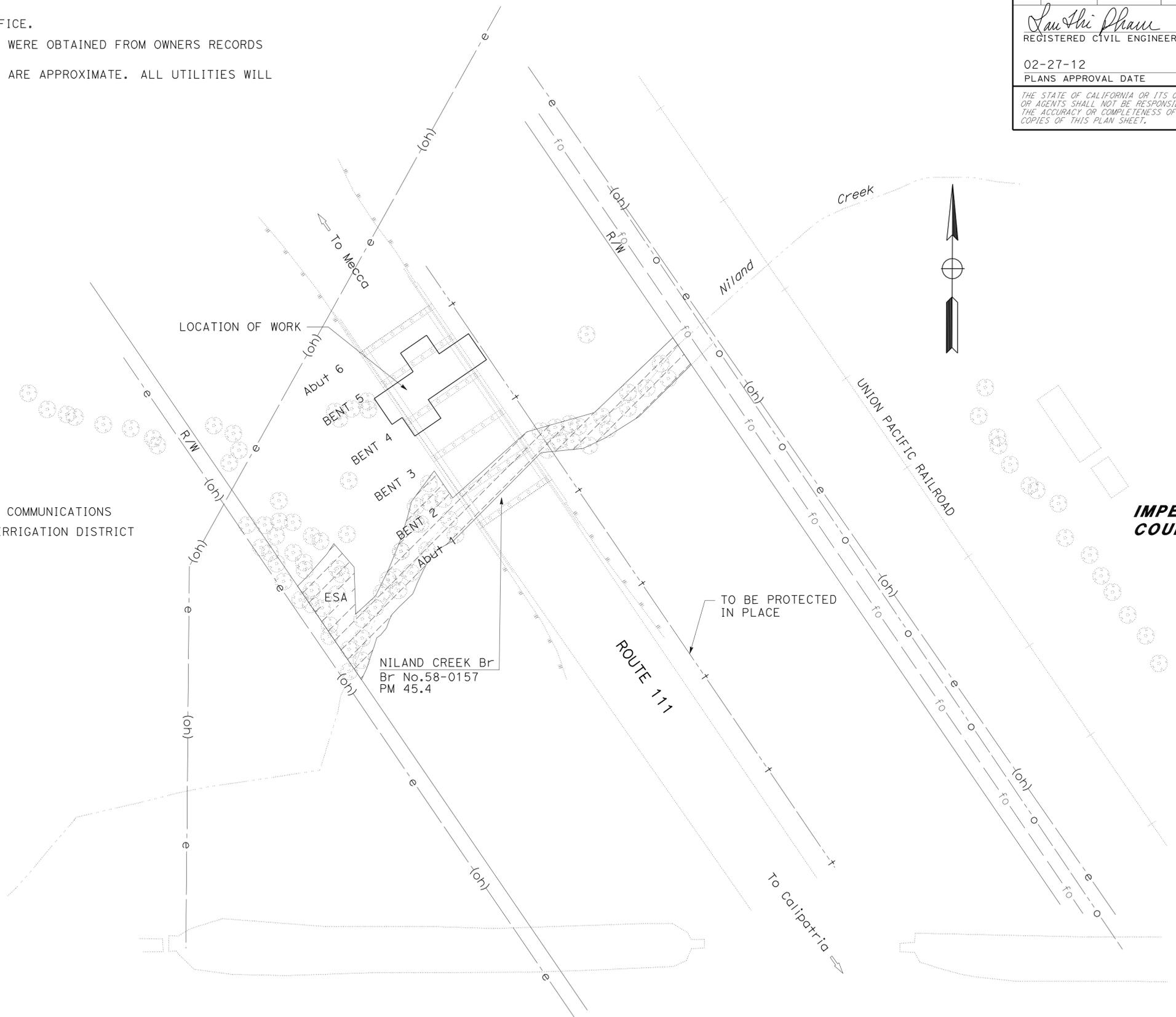


NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- LOCATIONS OF UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM OWNERS RECORDS AND/OR FROM FIELD SURVEYS.
- LOCATIONS OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. ALL UTILITIES WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

LEGEND:

- ESA ENVIRONMENTALLY SENSITIVE AREA
- fo — fo — FIBER OPTICS - LEVEL 3 COMMUNICATIONS
- - e - - (oh) - - ELECTRICAL - IMPERIAL IRRIGATION DISTRICT
- - o - - o - - OIL - KINDERMORGAN
- - † - - † - - UG TELEPHONE - AT&T



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	ALBERTO GAYON	LANTHI PHAM	
MAINTENANCE		ALBERTO GAYON	
	CHECKED BY	DESIGNED BY	DATE

CONSTRUCTION DETAILS
(LOCATION 2)
SCALE 1"=25' **C-2**

LAST REVISION DATE PLOTTED => 29-FEB-2012 02-22-12 TIME PLOTTED => 11:24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 ALBERTO GAYON

CALCULATED/DESIGNED BY
 CHECKED BY

LANTHI PHAM
 ALBERTO GAYON

REVISED BY
 DATE

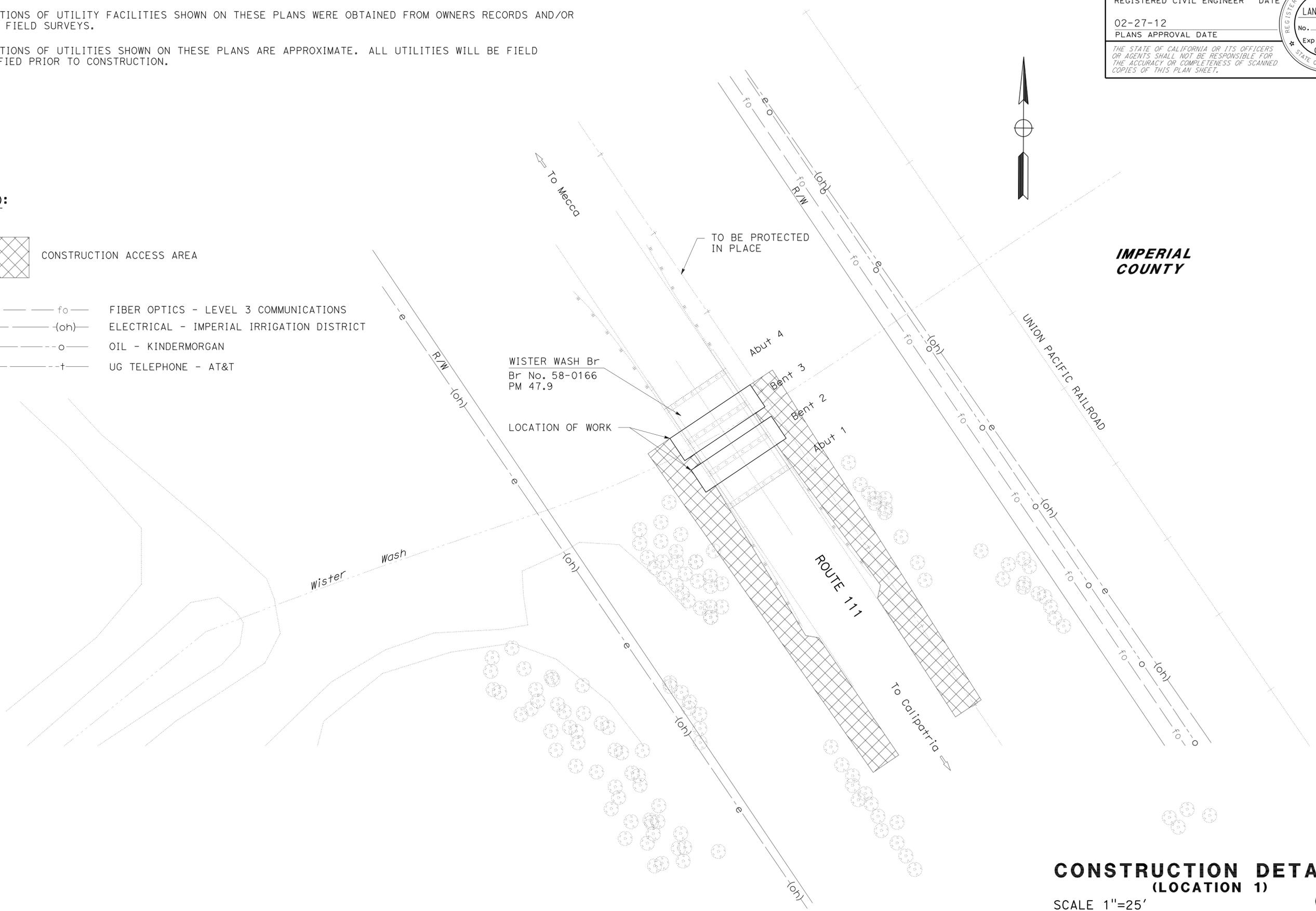
REVISED BY
 DATE

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM OWNERS RECORDS AND/OR FROM FIELD SURVEYS.
- LOCATIONS OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. ALL UTILITIES WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

LEGEND:

-  CONSTRUCTION ACCESS AREA
- fo - FIBER OPTICS - LEVEL 3 COMMUNICATIONS
- e - (oh) - ELECTRICAL - IMPERIAL IRRIGATION DISTRICT
- o - OIL - KINDERMORGAN
- t - UG TELEPHONE - AT&T



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8,111	Var	4	15

Lanthi Pham 01-26-12
 REGISTERED CIVIL ENGINEER DATE
 02-27-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 LANTHI PHAM
 No. 68408
 Exp. 9-30-13
 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.

CONSTRUCTION DETAILS
 (LOCATION 1)
 SCALE 1"=25' **C-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8, 111	Var	5	15

REGISTERED CIVIL ENGINEER DATE 01-26-12
 02-27-12 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 SHAHIN T. ADIBI
 No. 54839
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.
4. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE TRAFFIC HANDLING PLAN.

LEGEND:

XX = CONSTRUCTION AREA SIGN

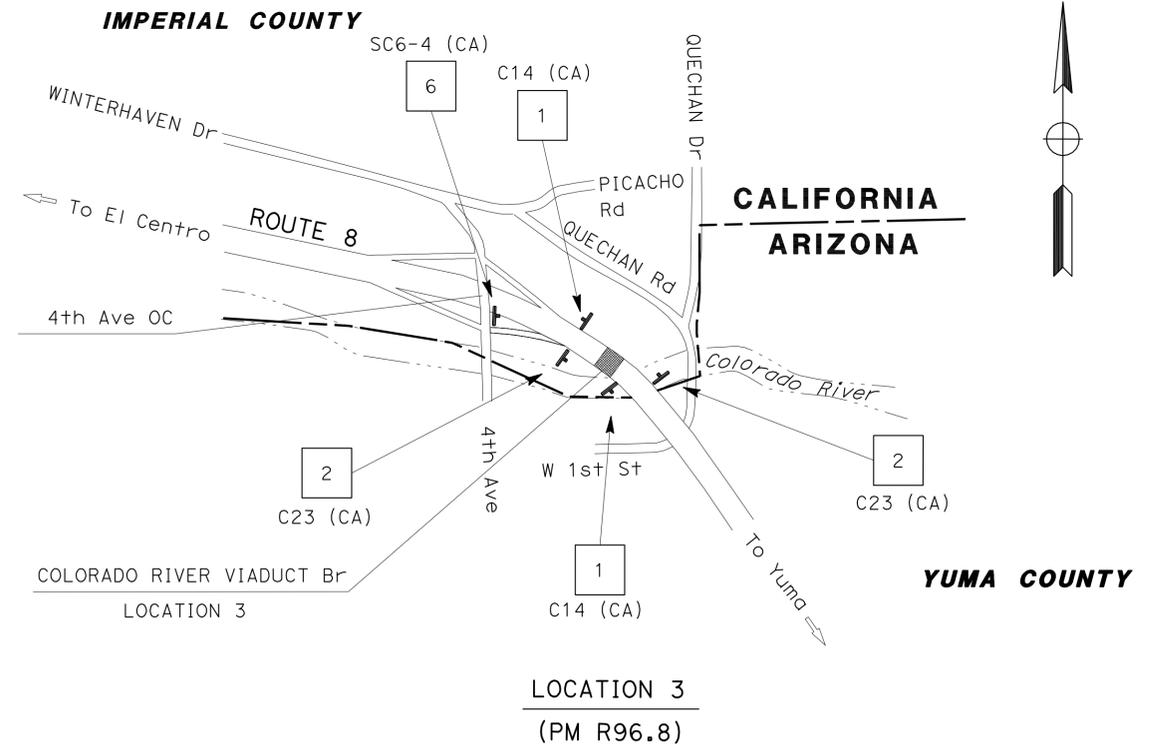
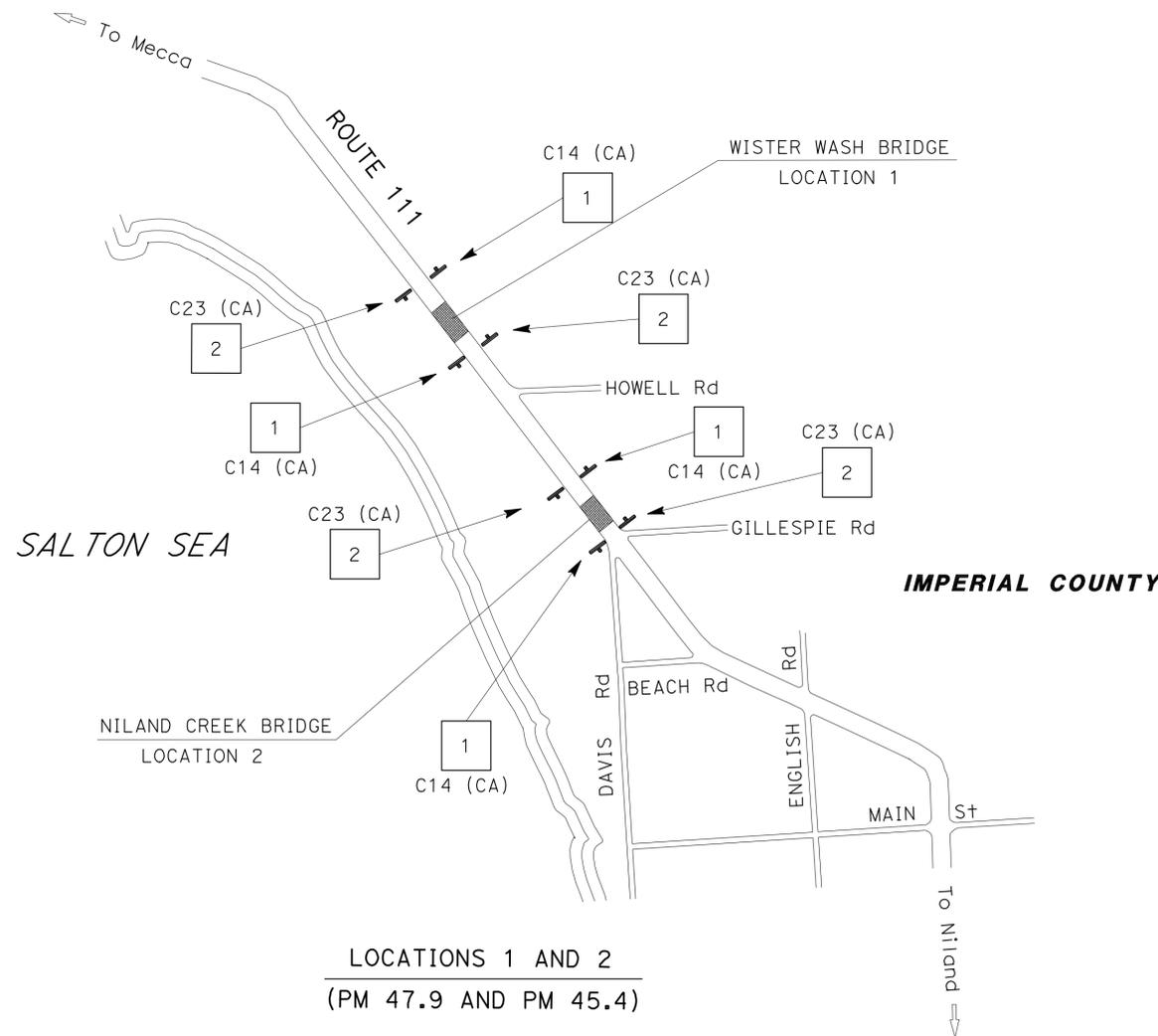
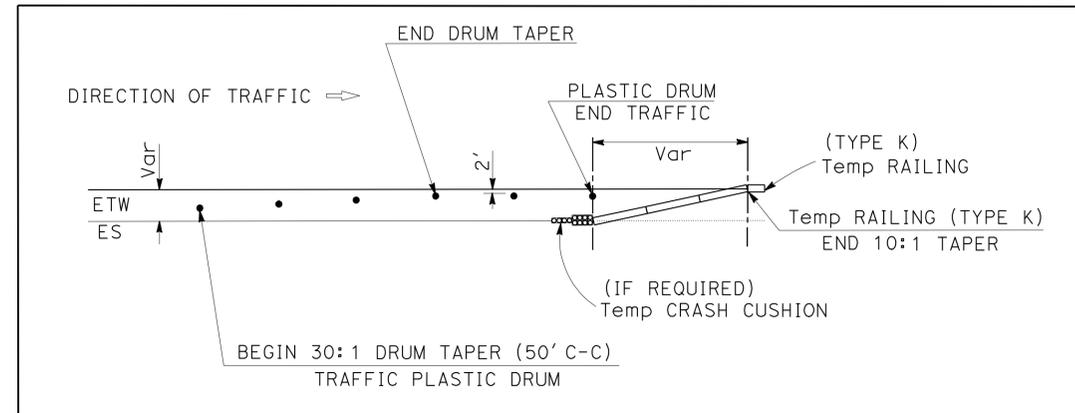
CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS
1	C14 (CA)	48 X 24	1-4 X 4 (S)	6
2	C23 (CA)	48 X 48	1-4 X 6 (S)	6
6	SC6-4 (CA)	48 X 60	PORTABLE	1
TOTAL				13

(S) DENOTES STATIONARY MOUNTED SIGN



TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOU FADEL
 CALCULATED/DESIGNED BY: ROBERT EDEJER
 CHECKED BY: SHAHIN ADIBI
 REVISED BY: DATE
 REVISIONS:

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	IMP	8,111	VARIOUS	6	15

REGISTERED CIVIL ENGINEER DATE 01-26-12
 02-27-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 SHAHIN T. ADIBI
 No. 54839
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA

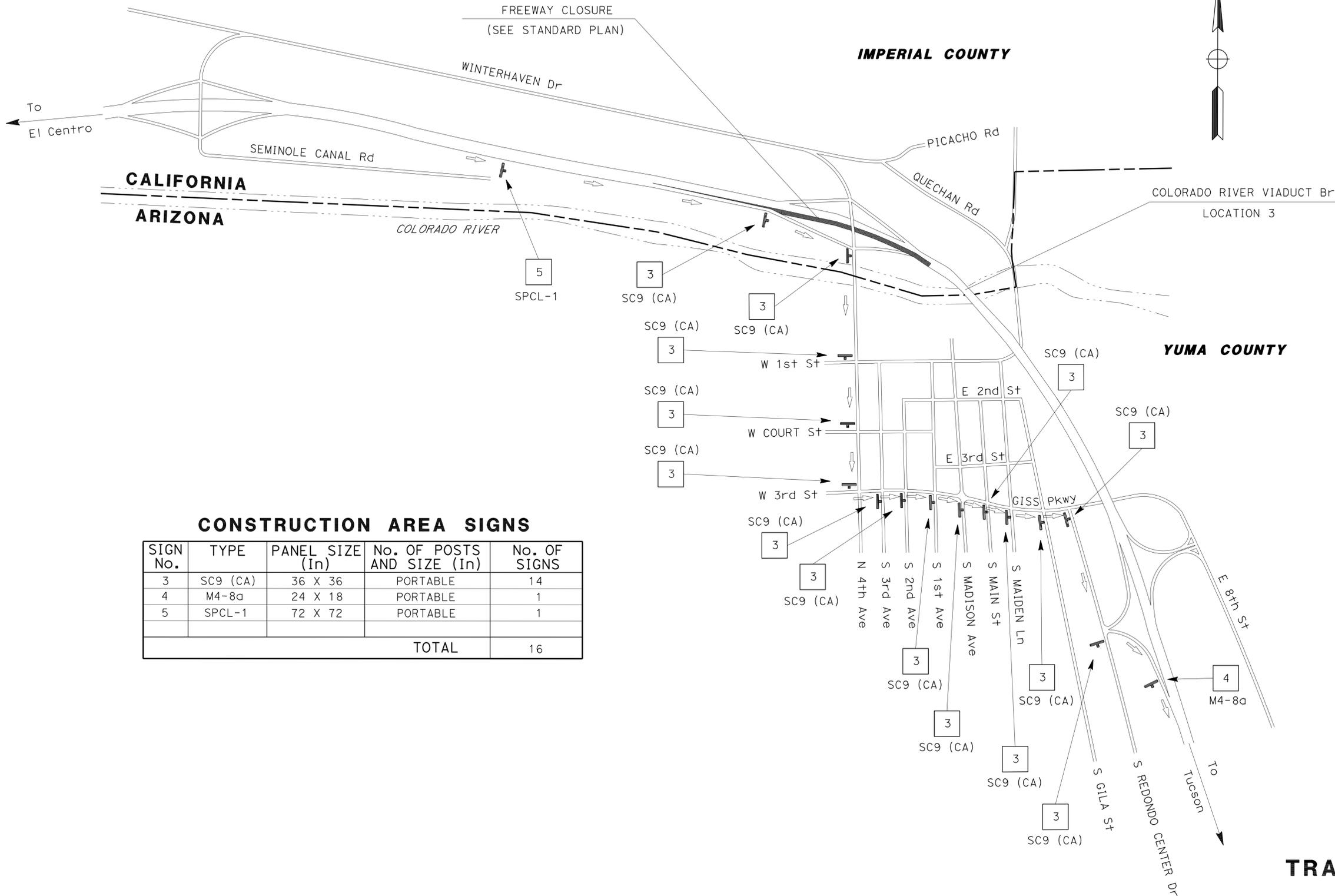
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION OF DETOUR SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. SEE CONSTRUCTION AREA SIGN PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

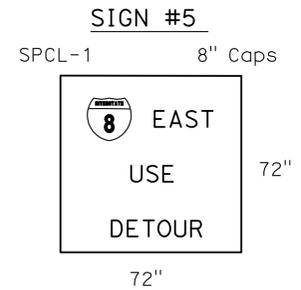
LEGEND

- XX = CONSTRUCTION AREA SIGNS
- SPCL = SPECIAL CONSTRUCTION AREA SIGN
- Caps = CAPITAL LETTERING
- ⇨ = DETOUR DIRECTION OF TRAVEL



CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE (In)	No. OF POSTS AND SIZE (In)	No. OF SIGNS
3	SC9 (CA)	36 X 36	PORTABLE	14
4	M4-8a	24 X 18	PORTABLE	1
5	SPCL-1	72 X 72	PORTABLE	1
TOTAL				16



TRAFFIC HANDLING PLAN

NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8,111	Var	7	15

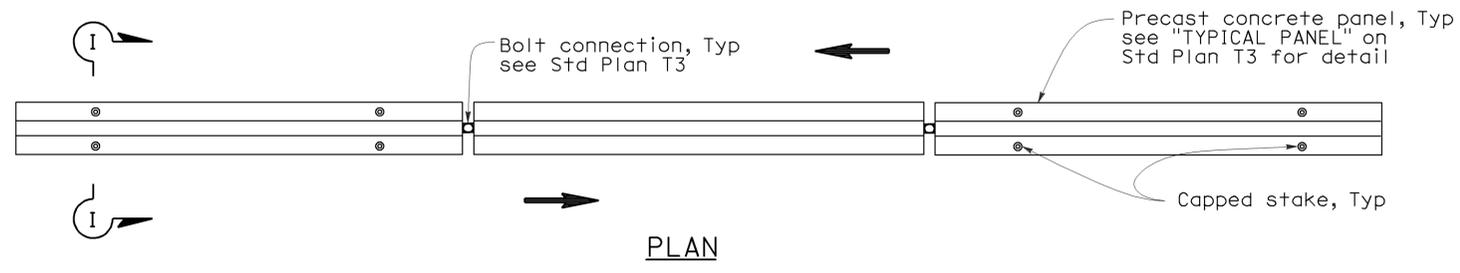
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

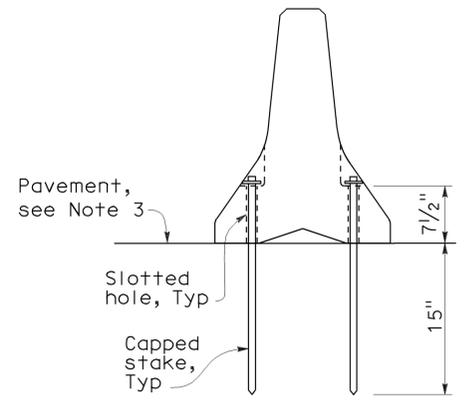
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 02-27-12

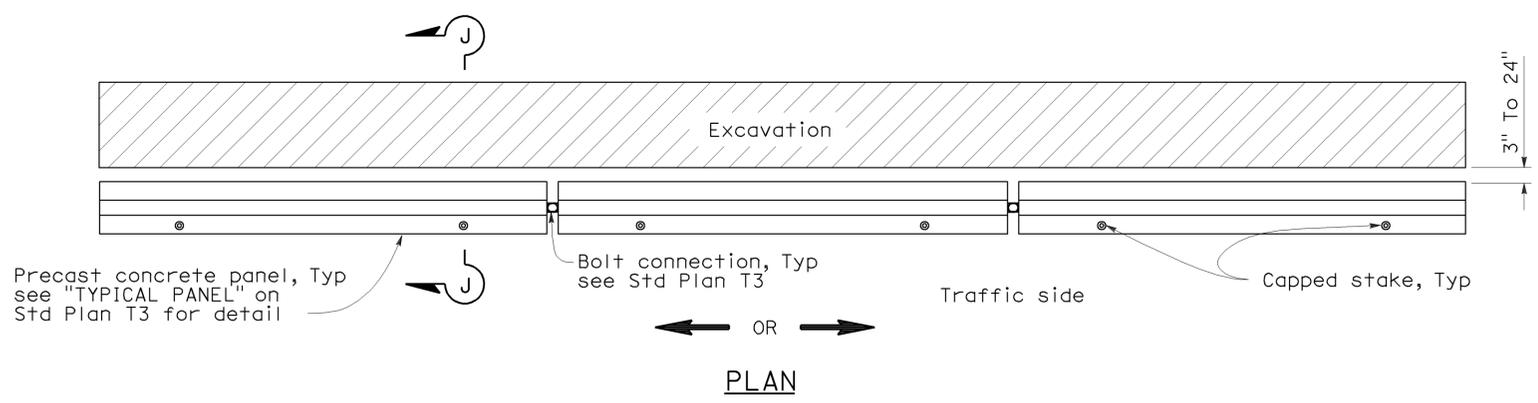


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

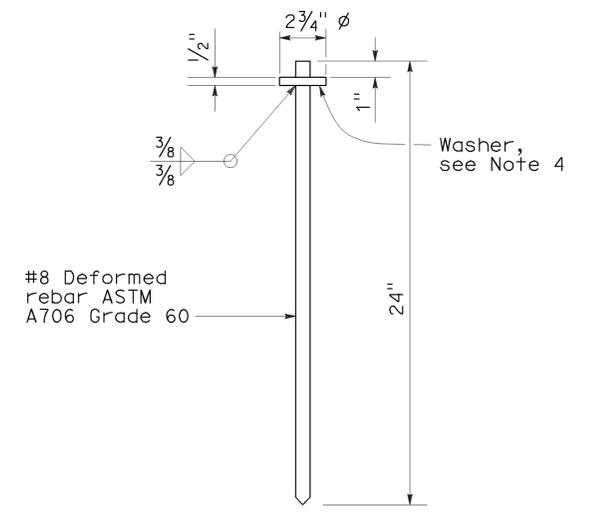
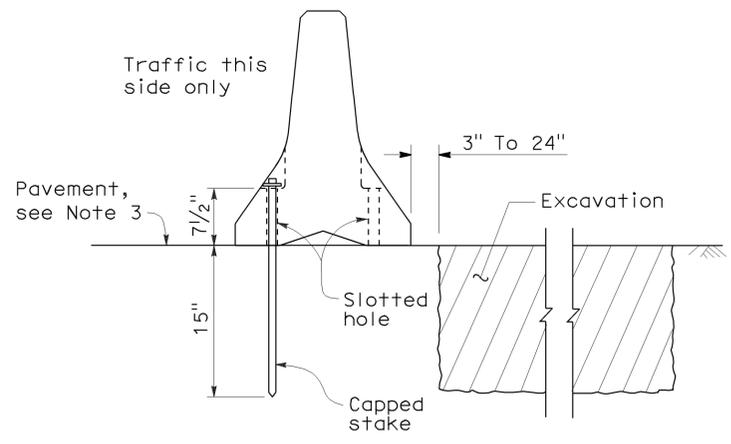


NOTES:

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

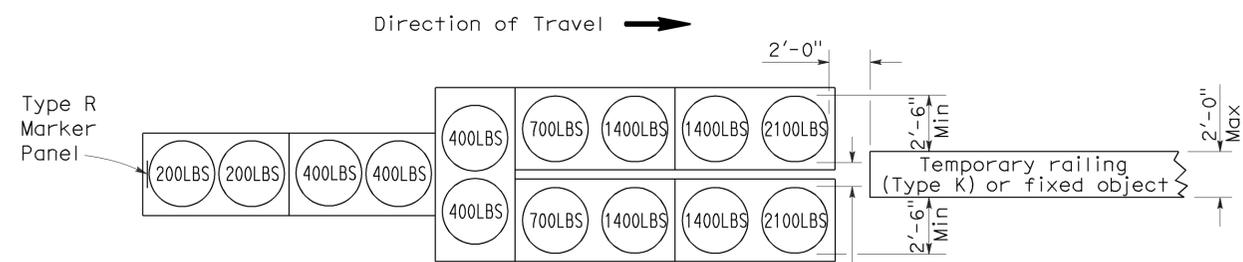
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8,111	Var	8	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

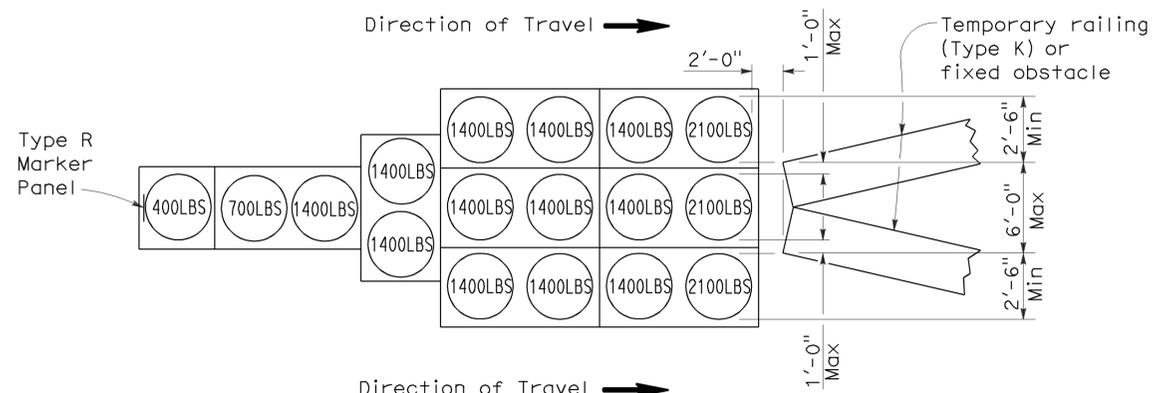
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 02-27-12



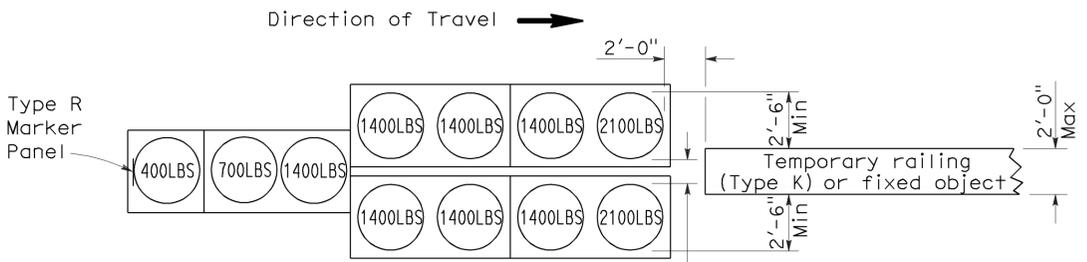
ARRAY 'TU14'

Approach speed 45 mph or more



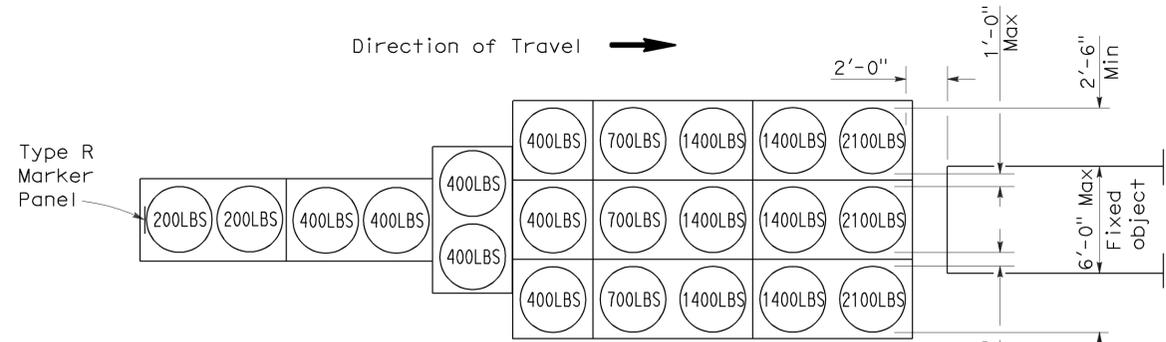
ARRAY 'TU17'

Approach speed less than 45 mph



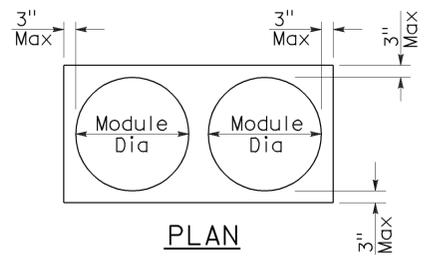
ARRAY 'TU11'

Approach speed less than 45 mph

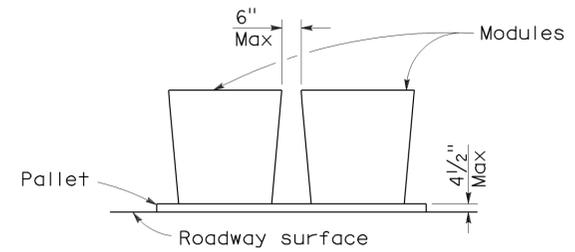


ARRAY 'TU21'

Approach speed 45 mph or more



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

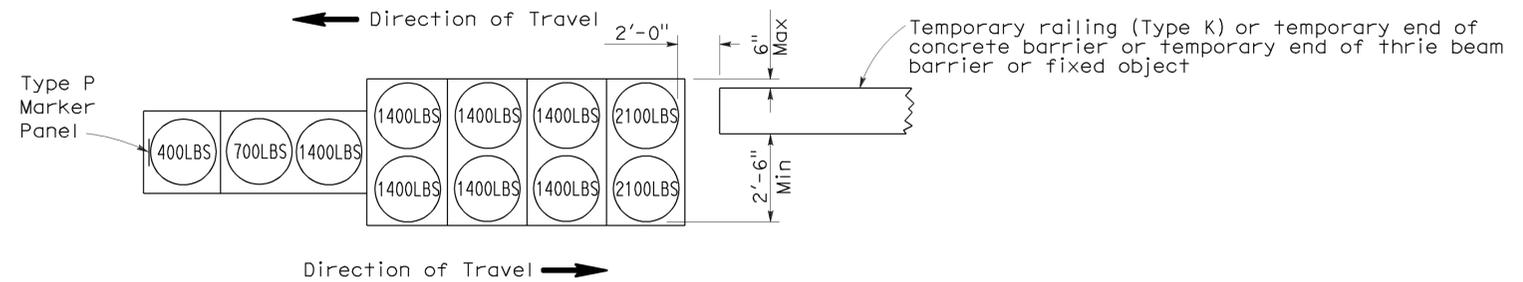
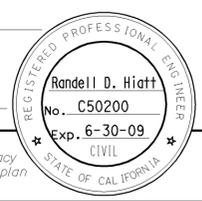
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8,111	Var	9	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

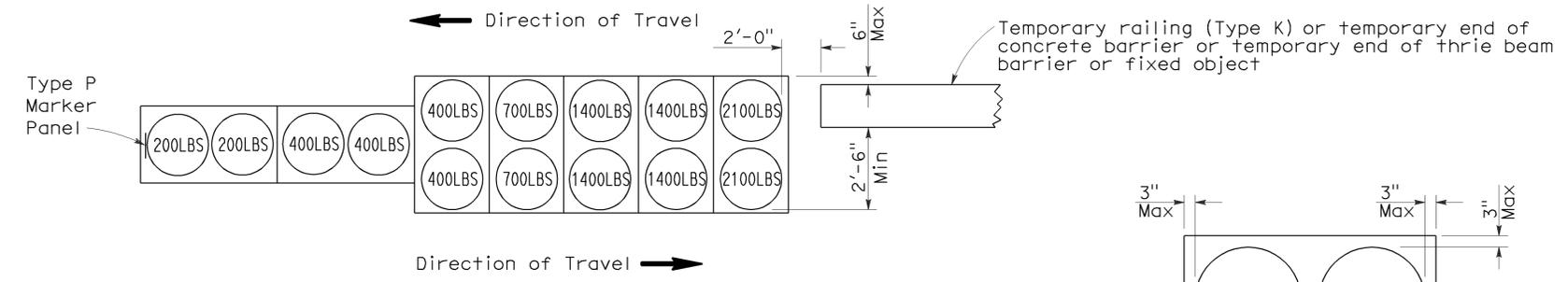
June 6, 2008
PLANS APPROVAL DATE

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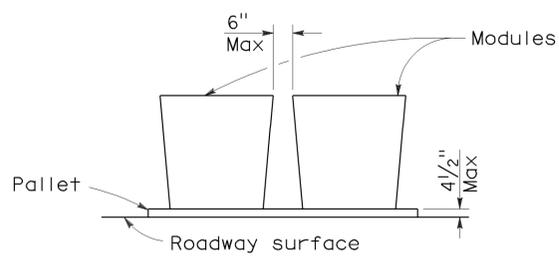
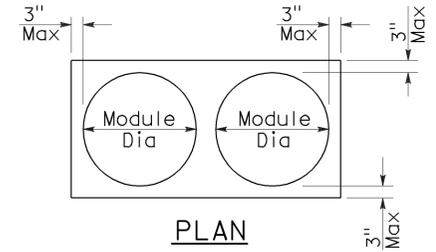
To accompany plans dated 02-27-12



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

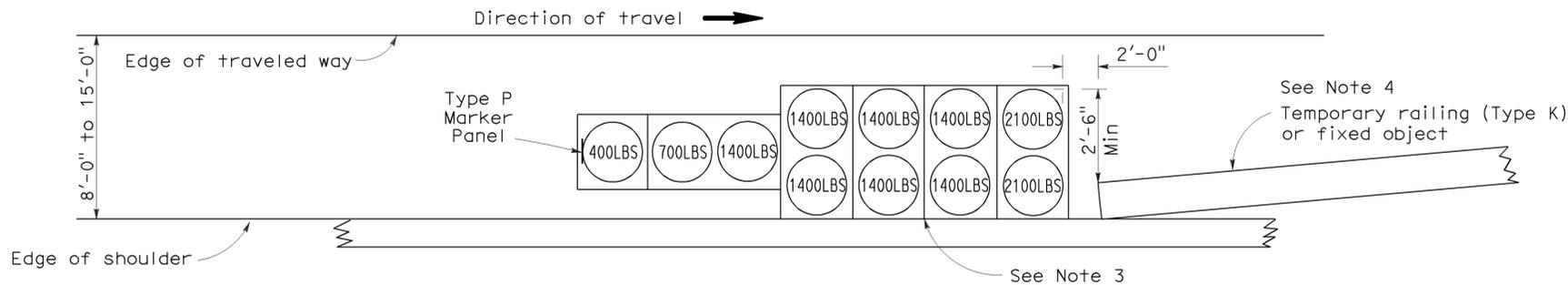
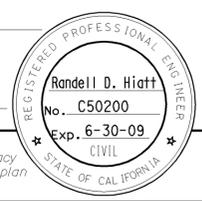
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8,111	Var	10	15

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

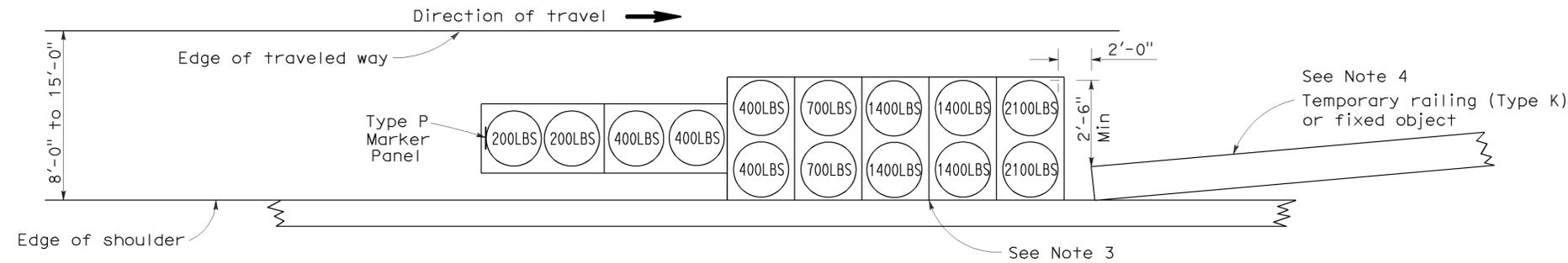
June 6, 2008
PLANS APPROVAL DATE

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 02-27-12



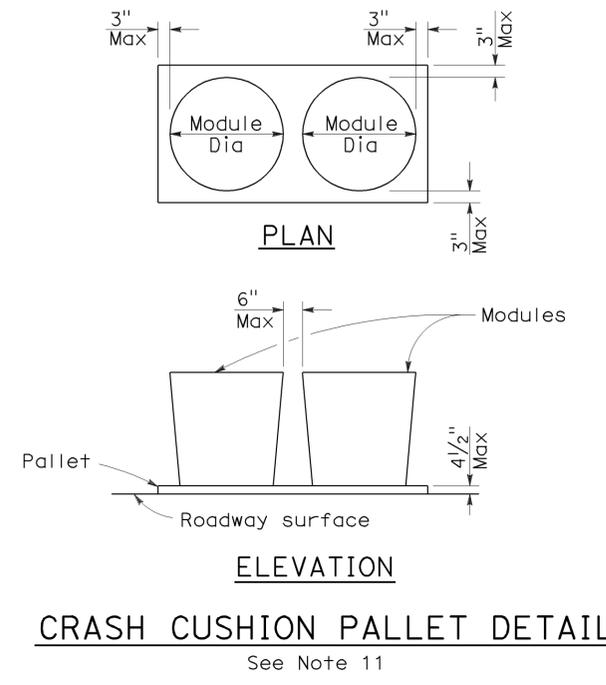
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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.



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

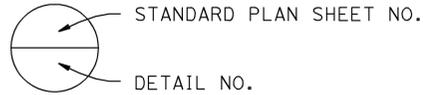
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

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)

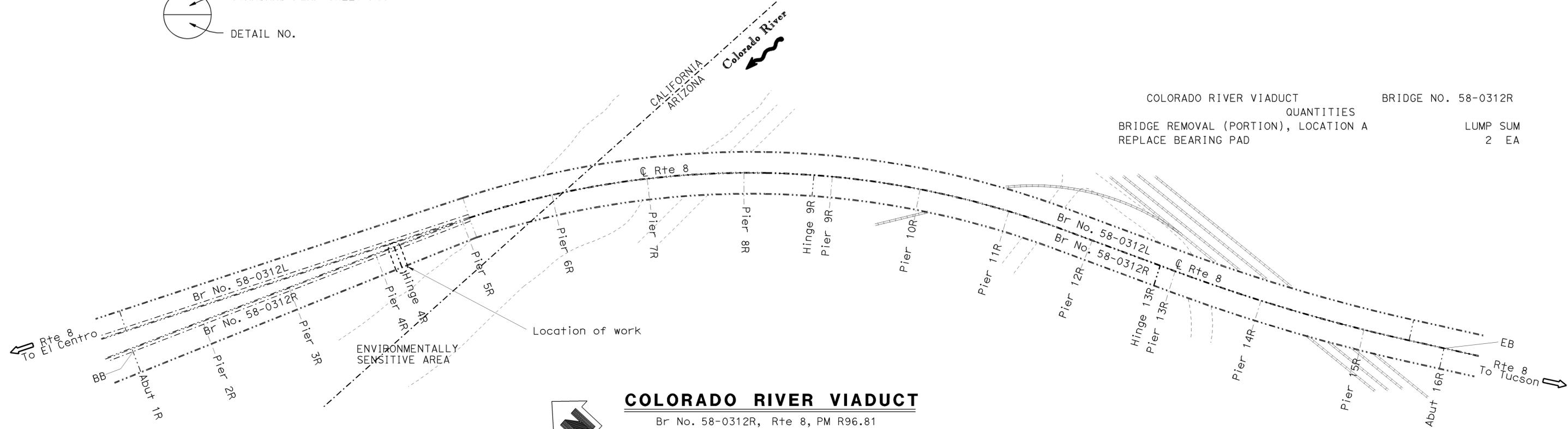


INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	COLUMN REPAIR DETAILS
5	BEARING REPLACEMENT DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	IMP	8,111	Var	11	15

REGISTERED CIVIL ENGINEER DATE 02/24/11
 02-27-12
 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.
 Caltrans now has web site! To get to the web site, go to: <http://www.dot.ca.gov>



COLORADO RIVER VIADUCT BRIDGE NO. 58-0312R
 QUANTITIES
 BRIDGE REMOVAL (PORTION), LOCATION A LUMP SUM
 REPLACE BEARING PAD 2 EA

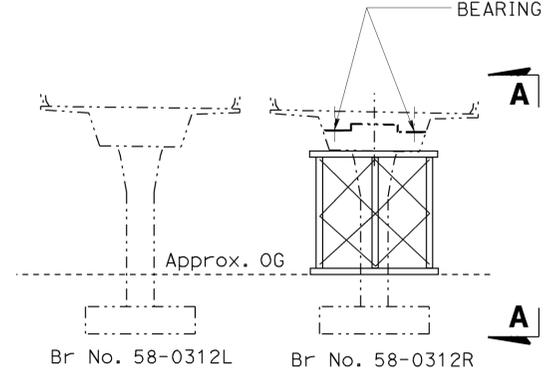
COLORADO RIVER VIADUCT

Br No. 58-0312R, Rte 8, PM R96.81
 1" = 100'

LEGEND:

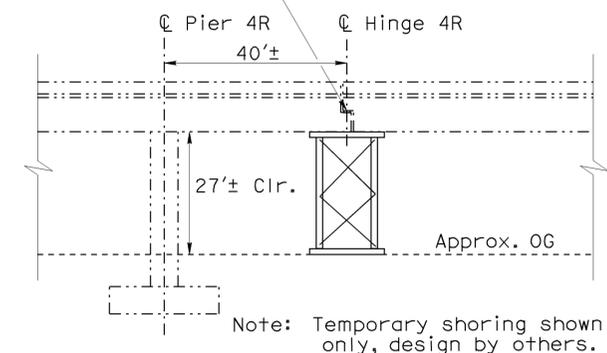
- Indicates existing.
- ➔ Indicates direction of traffic.

Location of remove existing elastomeric bearing pads and place new elastomeric bearing pads at Hinge 4R (total 2 bearing pads). For details see BEARING REPLACEMENT DETAILS sheet.



TYPICAL SECTION (HINGE 4R)

1" = 20'



VIEW A-A

1" = 20'

Note: Temporary shoring shown is schematic only, design by others.

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 8, 111 BRIDGES GENERAL PLAN NO. 1	
	DETAILS	BY Vinh Dang	CHECKED Vinh Dang	LAYOUT	BY Vinh Dang		CHECKED Tony Brake		58-0312R
	QUANTITIES	BY Vinh Dang	CHECKED Tony Brake	SPECIFICATIONS	BY Jennifer Ramirez		PLANS AND SPECS COMPARED Jennifer Ramirez		POST MILE R96.81

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

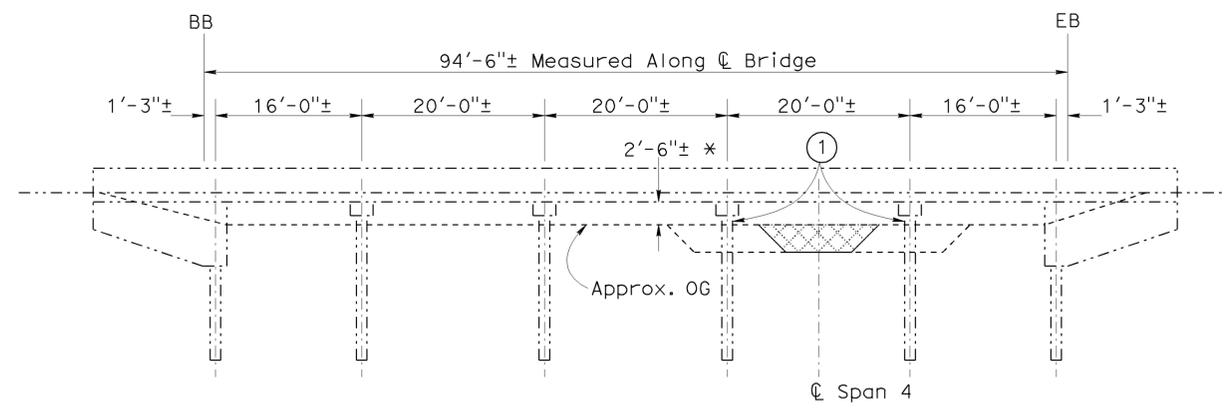
CU 11235	DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-29-10	11-29-10	11-30-10	SHEET 1 OF 5
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FILE => 11-2m2501-a-gp01.dgn

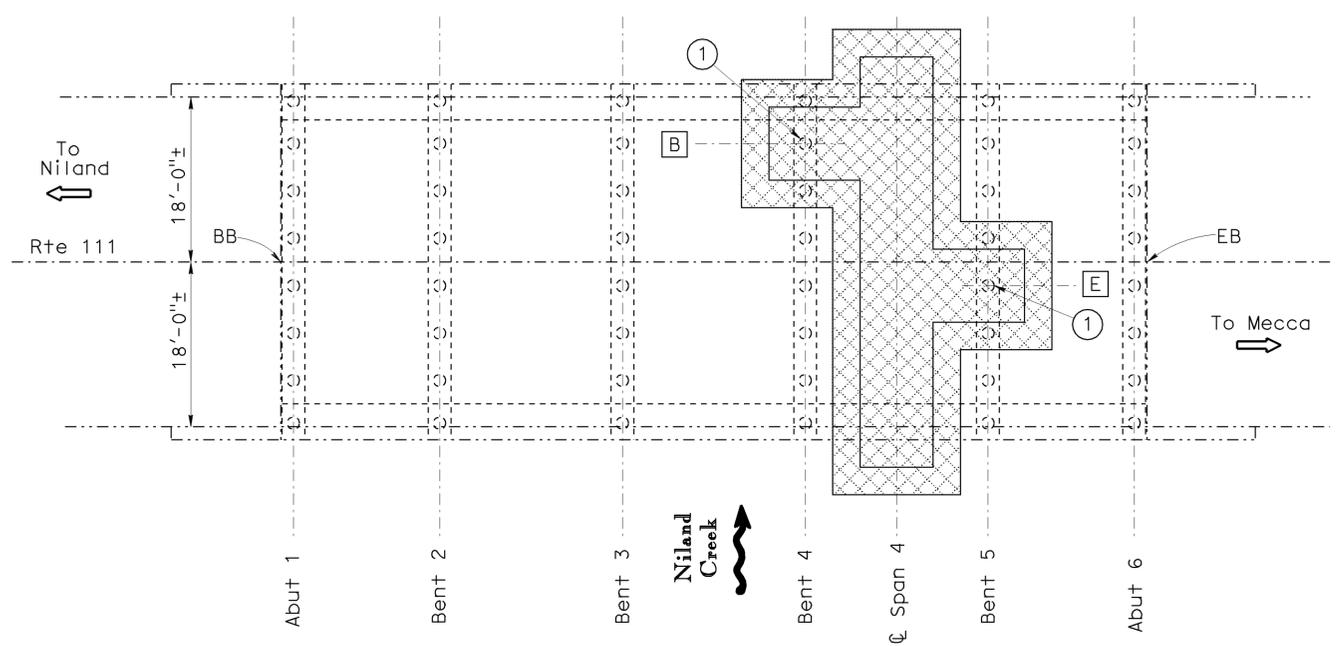
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	IMP	8, 111	Var	12	15

REGISTERED CIVIL ENGINEER DATE 02/24/11
 VINH DUC L. DANG
 No. C65096
 Exp. 09/30/11
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 02-27-12
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NILAND CREEK BRIDGE NO. 58-0157
 QUANTITIES
 BRIDGE REMOVAL (PORTION), LOCATION B LUMP SUM
 STRUCTURE EXCAVATION (TYPE DH) 174 CY
 STRUCTURE BACKFILL (BRIDGE) 174 CY
 STRUCTURAL CONCRETE, BRIDGE 1 CY
 BAR REINFORCING STEEL (BRIDGE) 64 LB



ELEVATION * Indicates approximate vertical clearance between soffit and OG.



PLAN
NILAND CREEK

Br No. 58-0157, Rte 111, PM 45.37
 1" = 10'

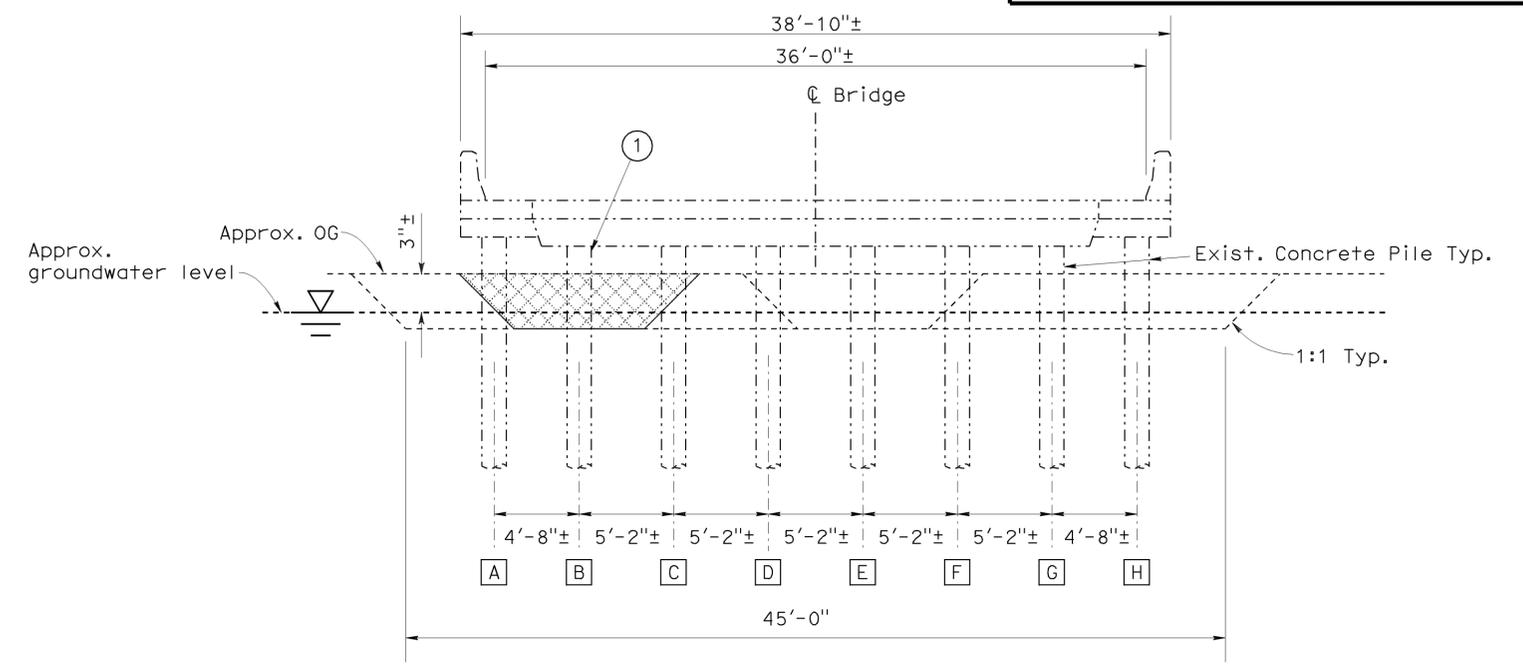
NOTES:

1. No vehicles nor equipment shall enter the creek without approval from the Engineer.

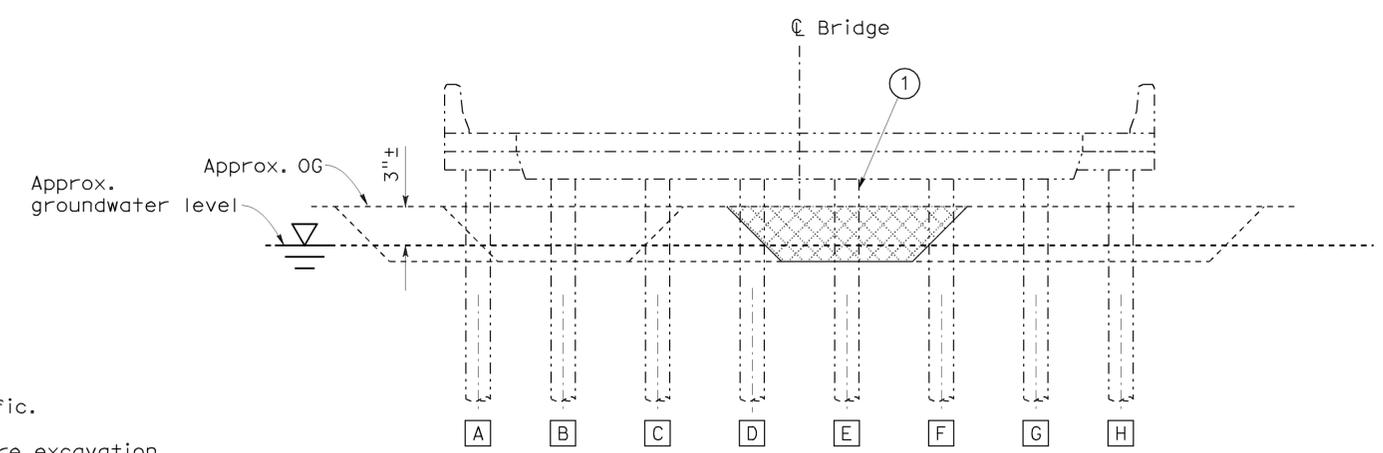
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of structure excavation Type DH and structure backfill. See "COLUMN REPAIR DETAILS" sheet for details.
- ① Indicates location of column repair. See "COLUMN REPAIR DETAILS" sheet.
- E Indicates column designation.



TYPICAL SECTION (BENT 4)
 (LOOKING UPSTATION, NORTHWEST)
 1" = 5'



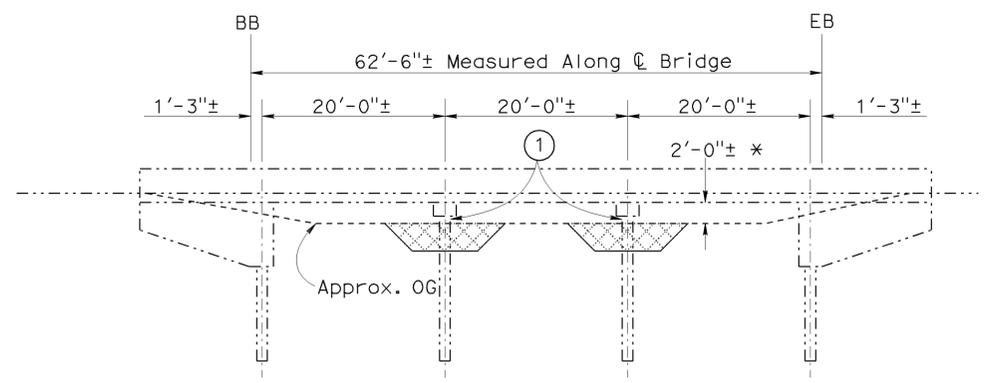
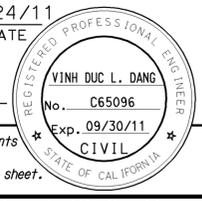
TYPICAL SECTION (BENT 5)
 (LOOKING UPSTATION, NORTHWEST)
 For details not shown, see Typical Section (Bent 4)
 1" = 5'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Vinh Dang	CHECKED Vinh Dang	LAYOUT	BY Vinh Dang
	QUANTITIES	BY Vinh Dang	CHECKED Tony Brake	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	58-0157
		POST MILE 45.37

ROUTE 8, 111 BRIDGES	
GENERAL PLAN NO. 2	
CU 11235 EA 2M2501	REVISION DATES
DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-19-10 11-28-10 09-27-11
SHEET 2	OF 5

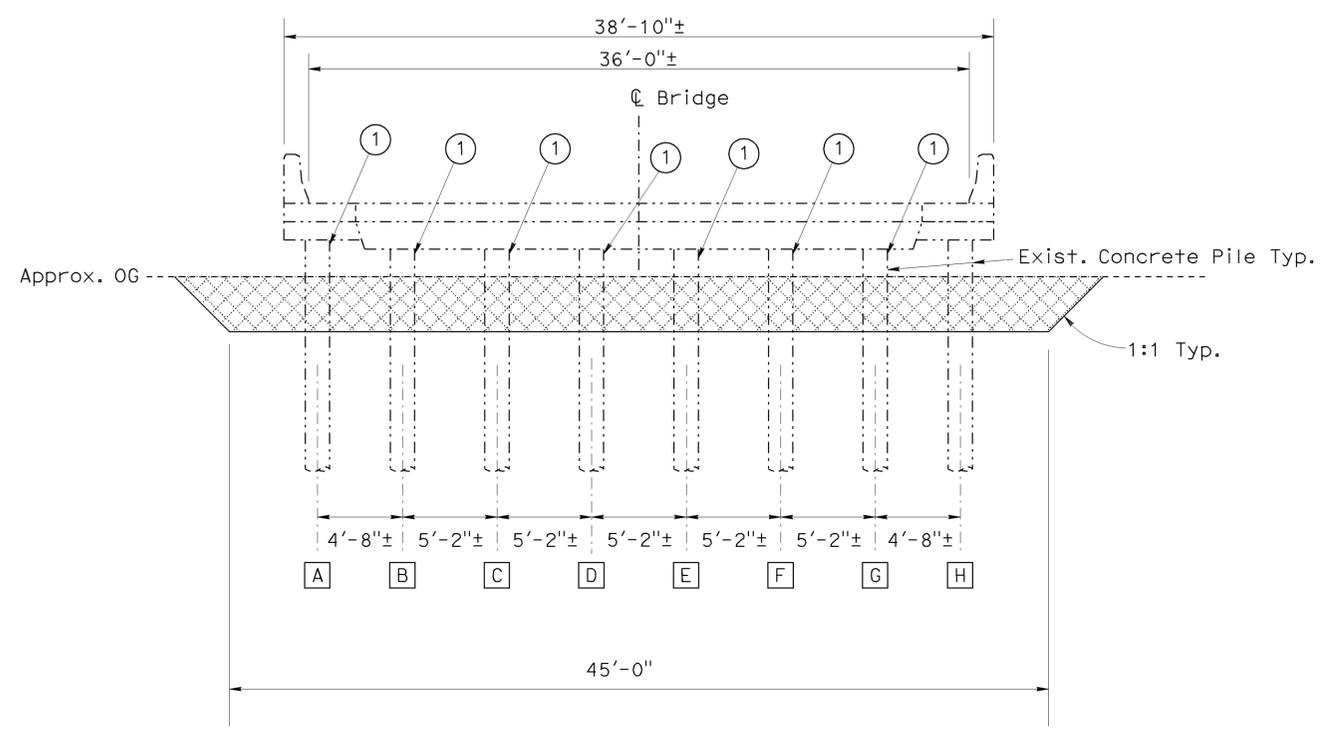
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	IMP	8,111	Var	13	15
Vinh Duc L. Dang 02/24/11 REGISTERED CIVIL ENGINEER DATE					
02-27-12					
PLANS APPROVAL DATE					
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* Indicates approximate vertical clearance between soffit and OG.

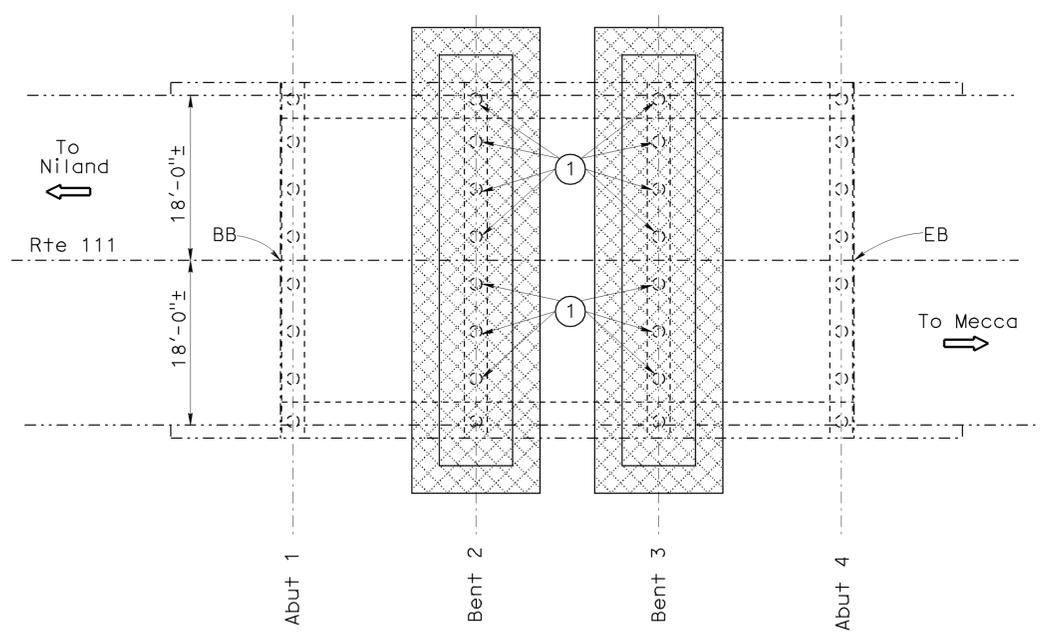
ELEVATION

WISTER WASH	QUANTITIES	BRIDGE NO. 58-0166
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM	
STRUCTURE EXCAVATION (TYPE DH)	120 CY	
STRUCTURE BACKFILL (BRIDGE)	120 CY	
STRUCTURAL CONCRETE, BRIDGE	3 CY	
BAR REINFORCING STEEL (BRIDGE)	300 LB	



TYPICAL SECTION (BENTS 2 & 3)

(LOOKING UPSTATION, NORTHWEST)
1" = 5'



PLAN

WISTER WASH

Br No. 58-0166, Rte 111, PM 47.87
1" = 10'

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

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of structure excavation Type DH and structure backfill. See "COLUMN REPAIR DETAILS" sheet for details.
- ① Indicates location of column repair. See "COLUMN REPAIR DETAILS" sheet.
- ⓔ Indicates column designation.

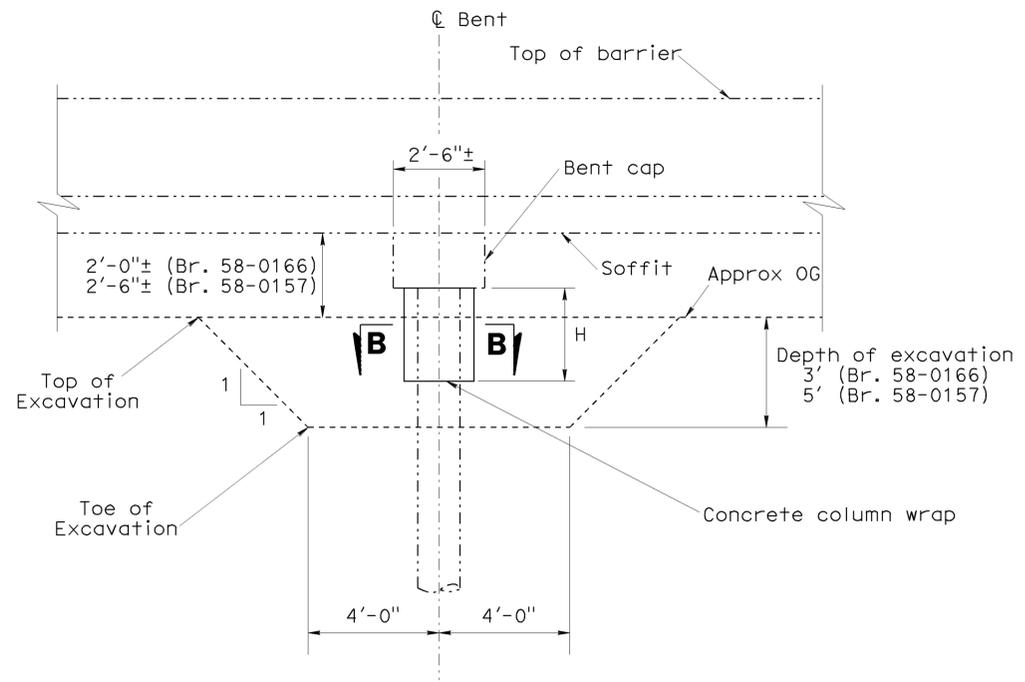
NOTES:

1. No vehicles nor equipment shall enter the creek without approval from the Engineer.

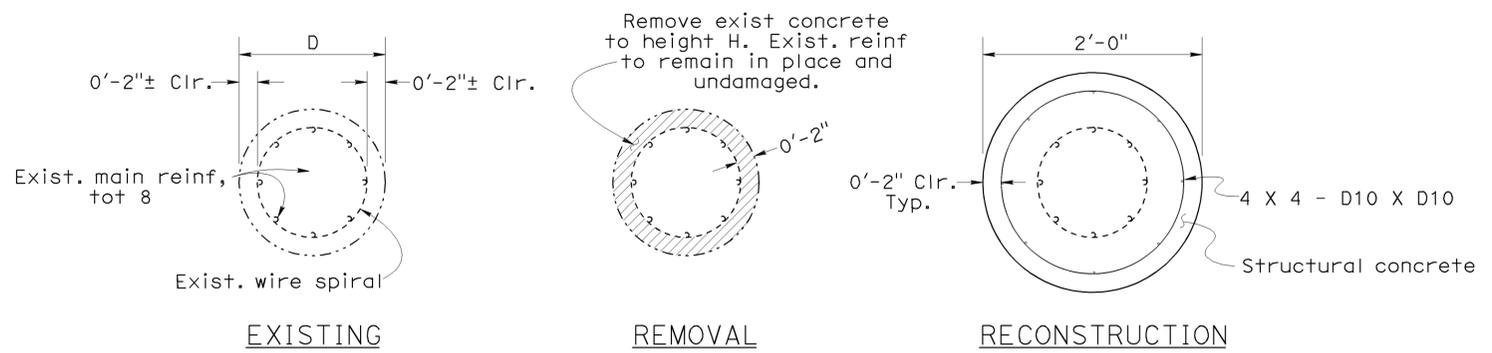
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 8, 111 BRIDGES GENERAL PLAN NO. 3	
	DETAILS	BY Vinh Dang	CHECKED Vinh Dang	LAYOUT	BY Vinh Dang		CHECKED Tony Brake		58-0166
	QUANTITIES	BY Vinh Dang	CHECKED Tony Brake	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez	POST MILE		
							47.87		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11235 EA 2M2501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
							0 1 2 3	11-19-10 11-29-10	SHEET 3 OF 5

USERNAME => s129239 DATE PLOTTED => 30-JAN-2012 TIME PLOTTED => 08:52

COLUMN REPAIR TABLE				
BRIDGE	LOCATION	COLUMN DESIGNATION	D, EXISTING COLUMN DIAMETER (INCH)	H, HEIGHT OF COLUMN REPAIR (FEET)
58-0157	Bent 4	B	14	2
	Bent 5	E	14	4
58-0166	Bent 2	A	16	2
		B	14	2
		C	14	2
		D	14	2
		E	14	2
		F	14	2
		G	14	2
	Bent 3	A	16	2
		B	14	2
		C	14	2
		D	14	2
		E	14	2
		F	14	2
		G	14	2



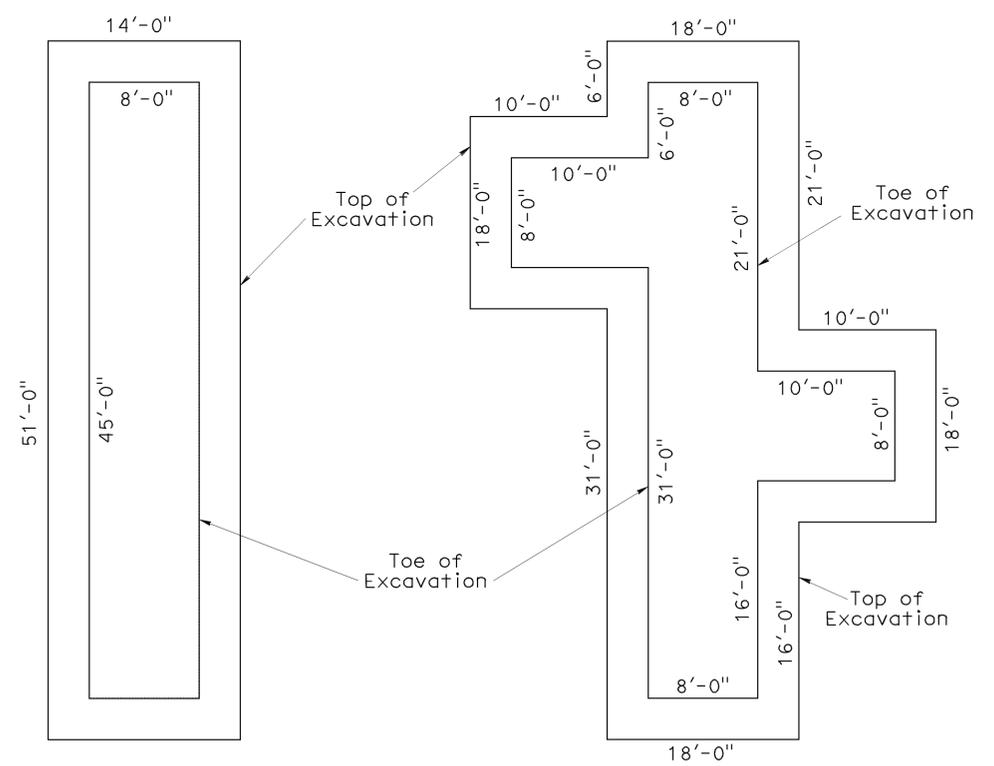
TYPICAL COLUMN REPAIR DETAIL
NO SCALE



SECTION B-B
NO SCALE

NOTES:

- Structural concrete $f'_c @ 28 \text{ days} = 3600 \text{ psi min.}$



Br No. 58-0166
BENTS 2 & 3

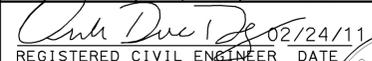
Br No. 58-0157
SPAN 4

EXCAVATION LIMITS
NO SCALE

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

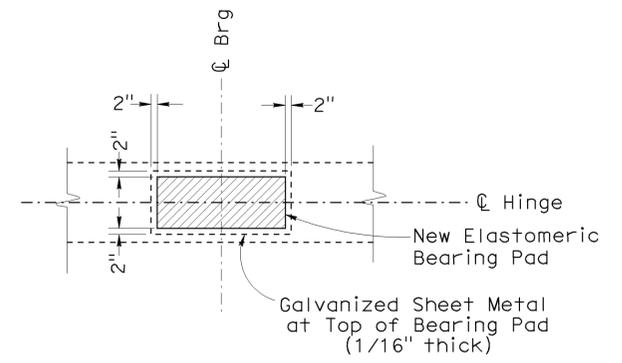
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Vinh Dang	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 8, 111 BRIDGES			
	DETAILS	BY Vinh Dang	CHECKED Vinh Dang			POST MILE		COLUMN REPAIR DETAILS			
	QUANTITIES	BY Vinh Dang	CHECKED Tony Brake			Varies		REVISION DATES	SHEET 4	OF 5	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 11235 EA 2M2501
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 FILE => 11-2m2501-b-repaird1s.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	IMP	8,111	Var	15	15
 REGISTERED CIVIL ENGINEER DATE 02/24/11					
02-27-12 PLANS APPROVAL DATE					
<i>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.</i>					

LEGEND:

- ① Indicates location of remove existing elastomeric bearing pad and place new 17" x 4" x 3'-6" elastomeric bearing pad. Coat top of bearing pad with silicone grease prior to placing galvanized sheet metal.



BEARING PAD DETAIL
NO SCALE

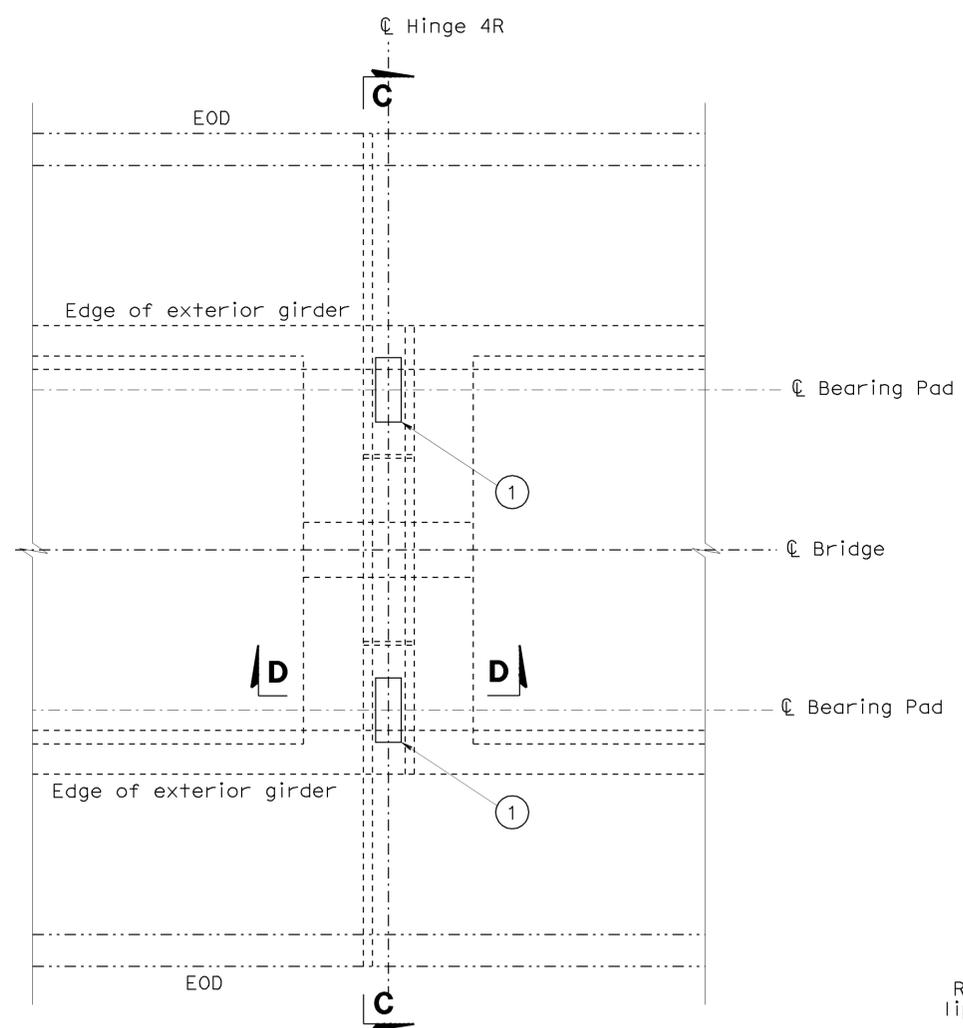
TEMPORARY SUPPORT TABLE			
LOCATION	DEAD LOAD	LATERAL LOAD	DL + LL + I REACTION
Hinge 4R	1260 Kips	126 Kips	1580 Kips

ORDER OF WORK

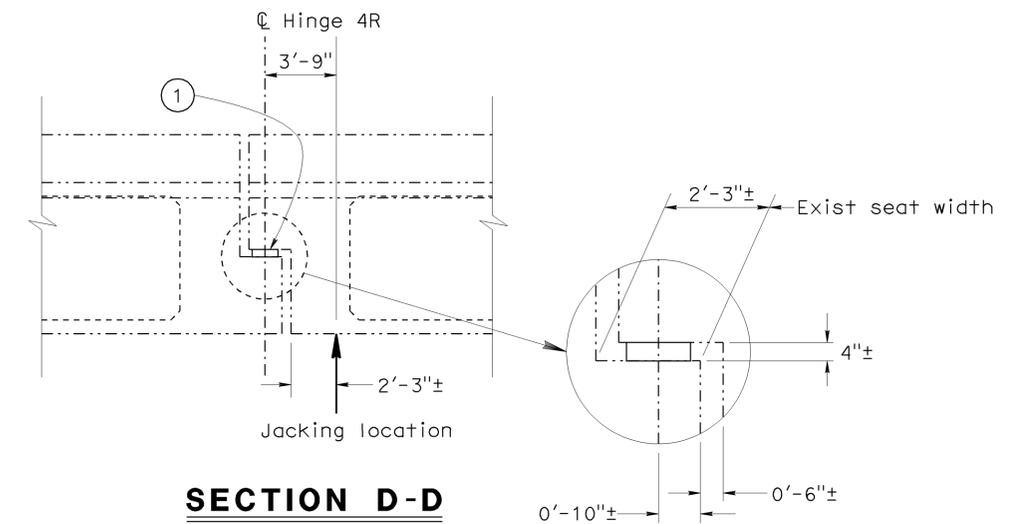
1. Raise superstructure.
2. Remove existing bearing pads and sheet metal.
3. Install new bearing pads and sheet metal.
4. Lower superstructure on new bearing pads.

JACKING NOTES

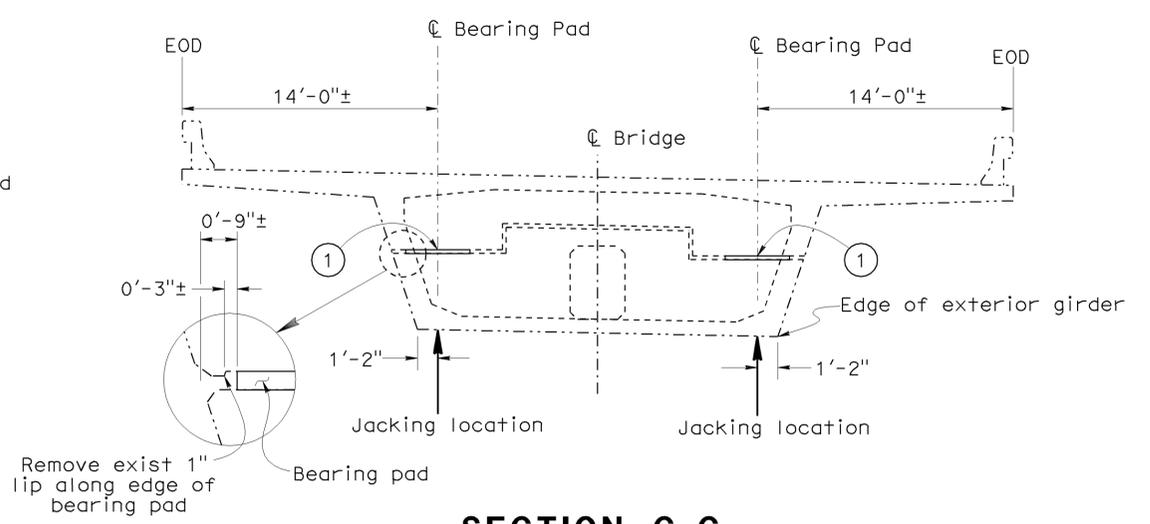
1. The jacking force shall be applied to all jacks simultaneously.
2. The total vertical lift shall be enough to release existing bearing pads and install new bearing pads, but no greater than 1/2" above final grade.
3. The differential lift of girders bearing on elastomeric bearing pads shall not exceed 1/16".



PART PLAN



SECTION D-D



SECTION C-C
1" = 5'

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Vinh Dang	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	58-0312R	ROUTE 8, 111 BRIDGES BEARING REPLACEMENT DETAILS			
	DETAILS	BY Vinh Dang	CHECKED Vinh Dang			POST MILE	R96.81				
	QUANTITIES	BY Vinh Dang	CHECKED Tony Brake			CU 11235 EA 2M2501	REVISION DATES		<table border="1"> <tr> <td>11-19-10</td> <td>11-29-10</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	11-19-10	11-29-10
11-19-10	11-29-10										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								SHEET 5 OF 5			

USERNAME => s129239 DATE PLOTTED => 30-JAN-2012 TIME PLOTTED => 08:52