

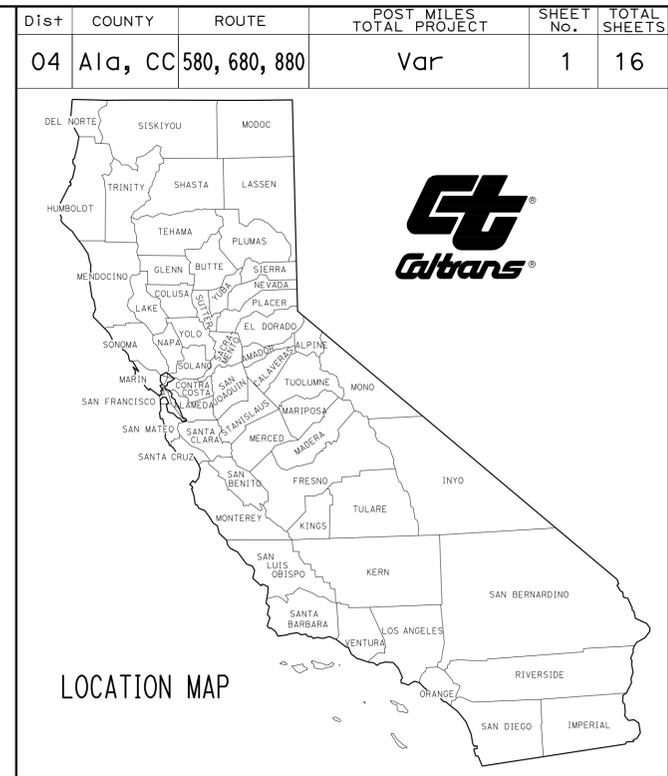
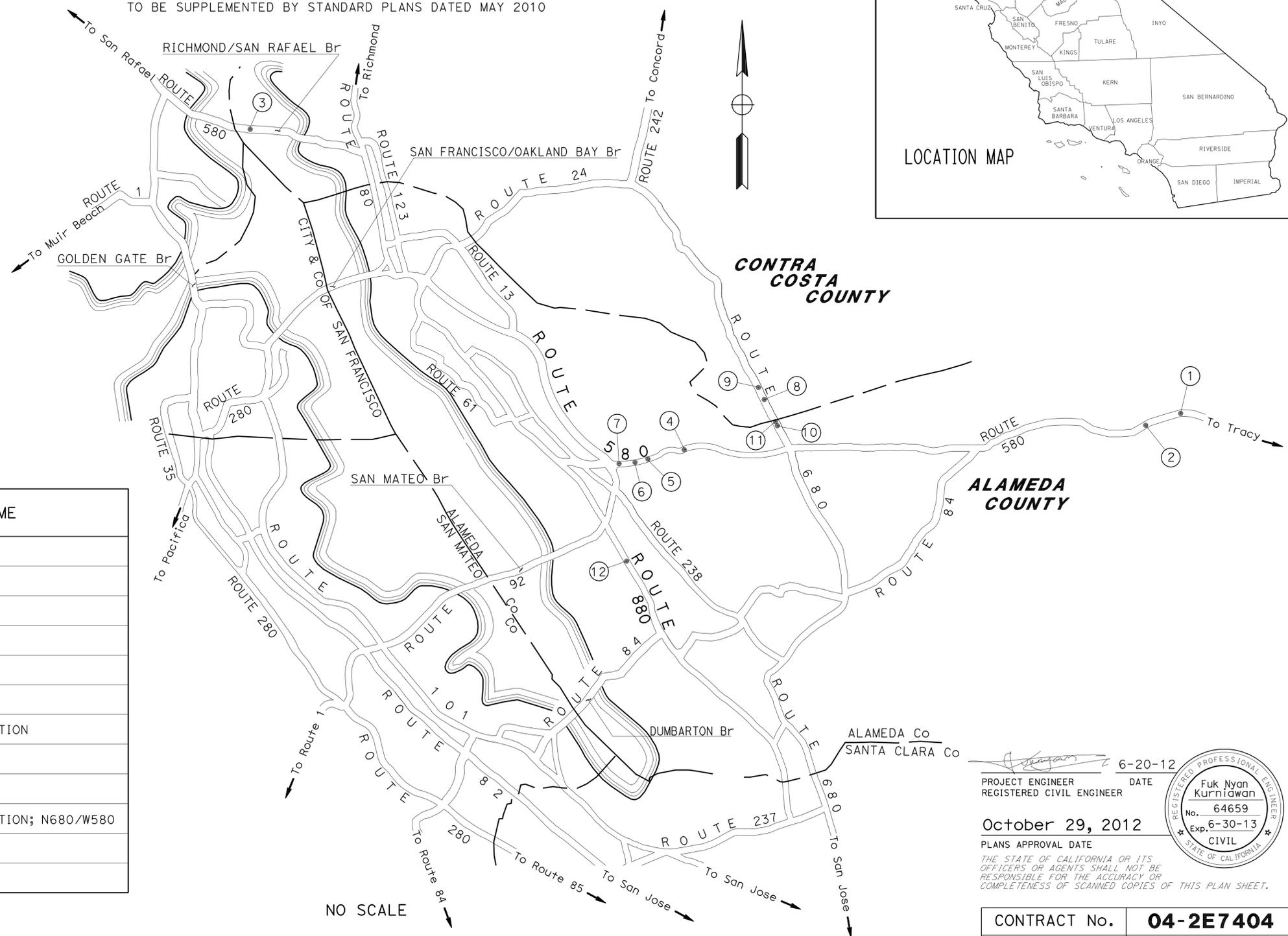
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATIONS OF CONSTRUCTION
2 - 4	CONSTRUCTION AREA SIGNS
5 - 6	PAVEMENT DELINEATION DETAILS AND QUANTITIES
STRUCTURE PLANS	
7 - 13	GENERAL PLANS
14	DECK REPAIR DETAILS
15	JOINT SEAL TABLE AND DETAILS
16	STRUCTURE APPROACH TYPE R(30D)

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 ALAMEDA AND CONTRA COSTA COUNTIES
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010



LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE No.	BRIDGE NAME
①	Ala	580	R1.480	33-0196R	GRANT LINE Rd UC
②	Ala	580	R3.980	33-0123R	STONE CUT OVERHEAD
③	CC	580	R5.430	28-0139	MARINE STREET UC
④	Ala	580	R26.230	33-0225L	EDEN CANYON ROAD UC
⑤	Ala	580	R28.410	33-0233L	CROW CANYON ROAD UC
⑥	Ala	580	R29.370	33-0193L	REDWOOD ROAD UC
⑦	Ala	580	R30.590	33-0214L	ROUTE 580/238 SEPARATION
⑧	CC	680	R1.090	28-0221	PINE VALLEY ROAD UC
⑨	CC	680	R1.890	28-0222	MONTEVIDEO ROAD UC
⑩	Ala	680	R20.030	33-0371G	ROUTE 680/580 SEPARATION; N680/W580
⑪	Ala	680	R20.220	33-0644F	S680-W580 CONNECTOR
⑫	Ala	880	13.67	33-0245	WHIPPLE ROAD UC

NO SCALE

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

6-20-12
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
October 29, 2012
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	04-2E7404
PROJECT ID	0400021095

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 CALCULATED/DESIGNED BY: RAMON N. CRUZ
 CHECKED BY: FLORANTE P. PEREZ
 REVISED BY: A
 DATE REVISED: A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	580, 680, 880	Var	2	16

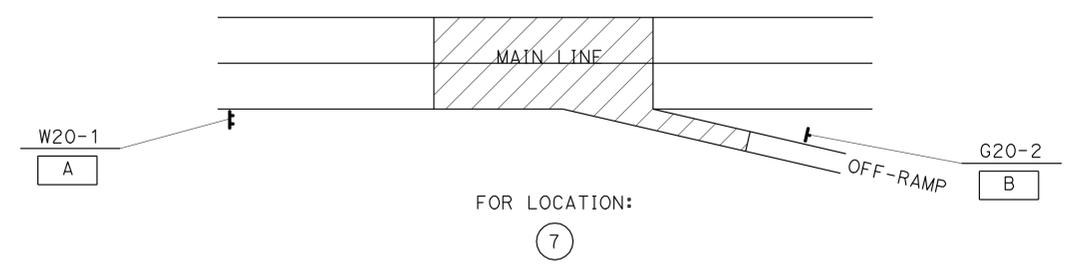
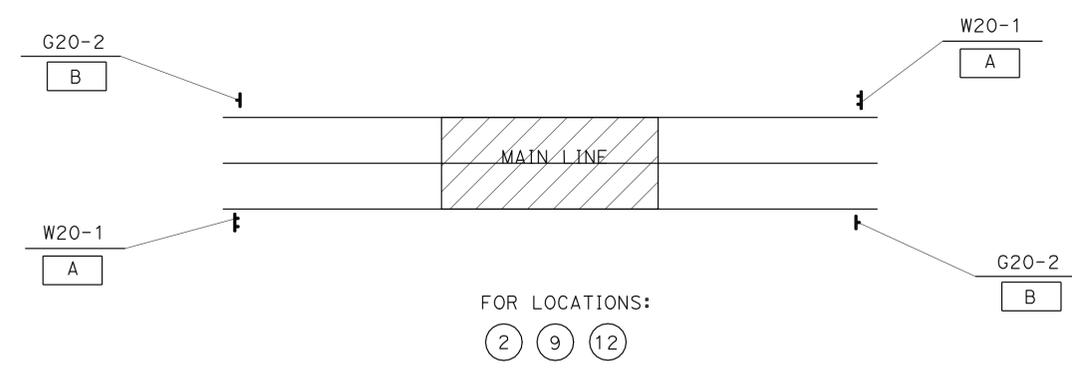
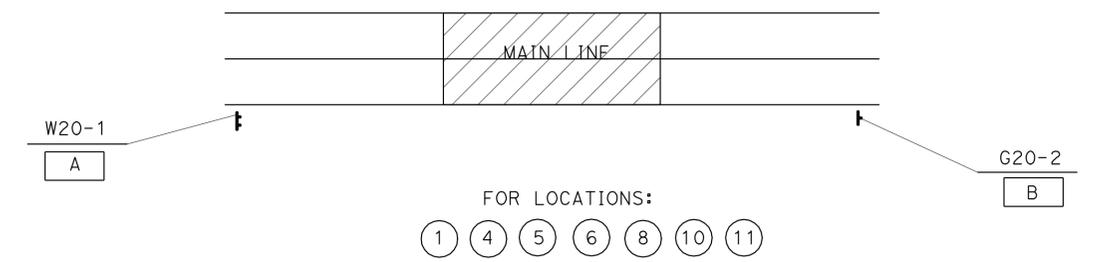
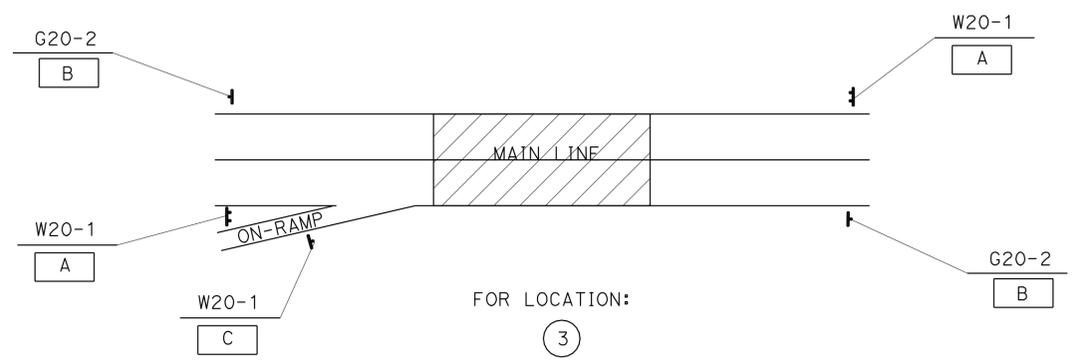
REGISTERED CIVIL ENGINEER: Florante P. Perez
 No. 41030
 Exp. 3-31-13
 CIVIL
 DATE: 8-28-12
 PLANS APPROVAL DATE: 10-29-12
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
- ALL CONSTRUCTION AREA SIGNS SHALL BE STATIONARY MOUNTED, UNLESS OTHERWISE INDICATED.
- FOR EACH LOCATION, THE CONTRACTOR SHALL REMOVE CONSTRUCTION AREA SIGNS REQUIRED FOR SAID LOCATION NO LATER THAN 10 DAYS AFTER ALL WORK IS COMPLETED.

LEGEND:

-  CONSTRUCTION AREA SIGN
-  DIRECTION OF TRAFFIC
-  LOCATION OF CONSTRUCTION



CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

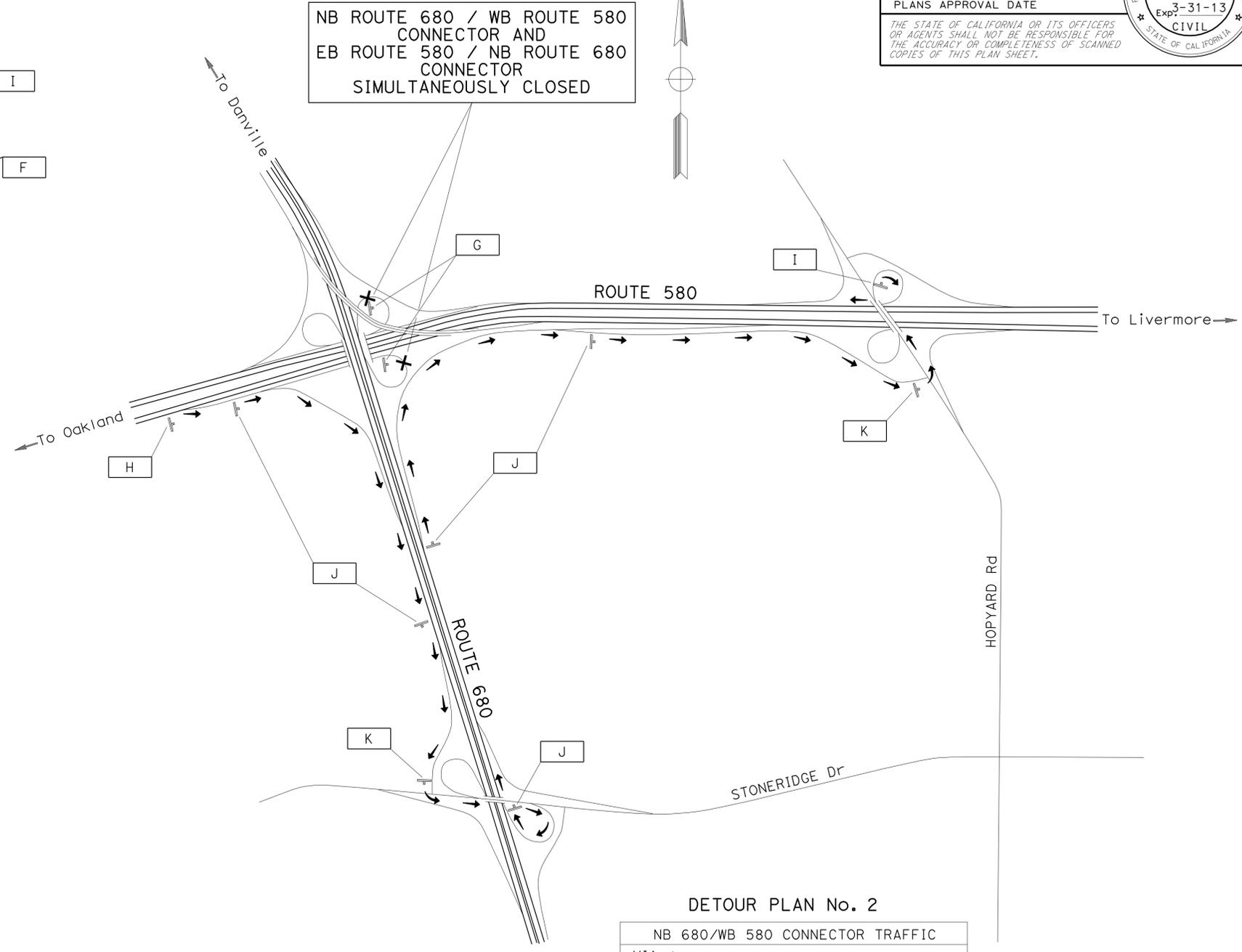
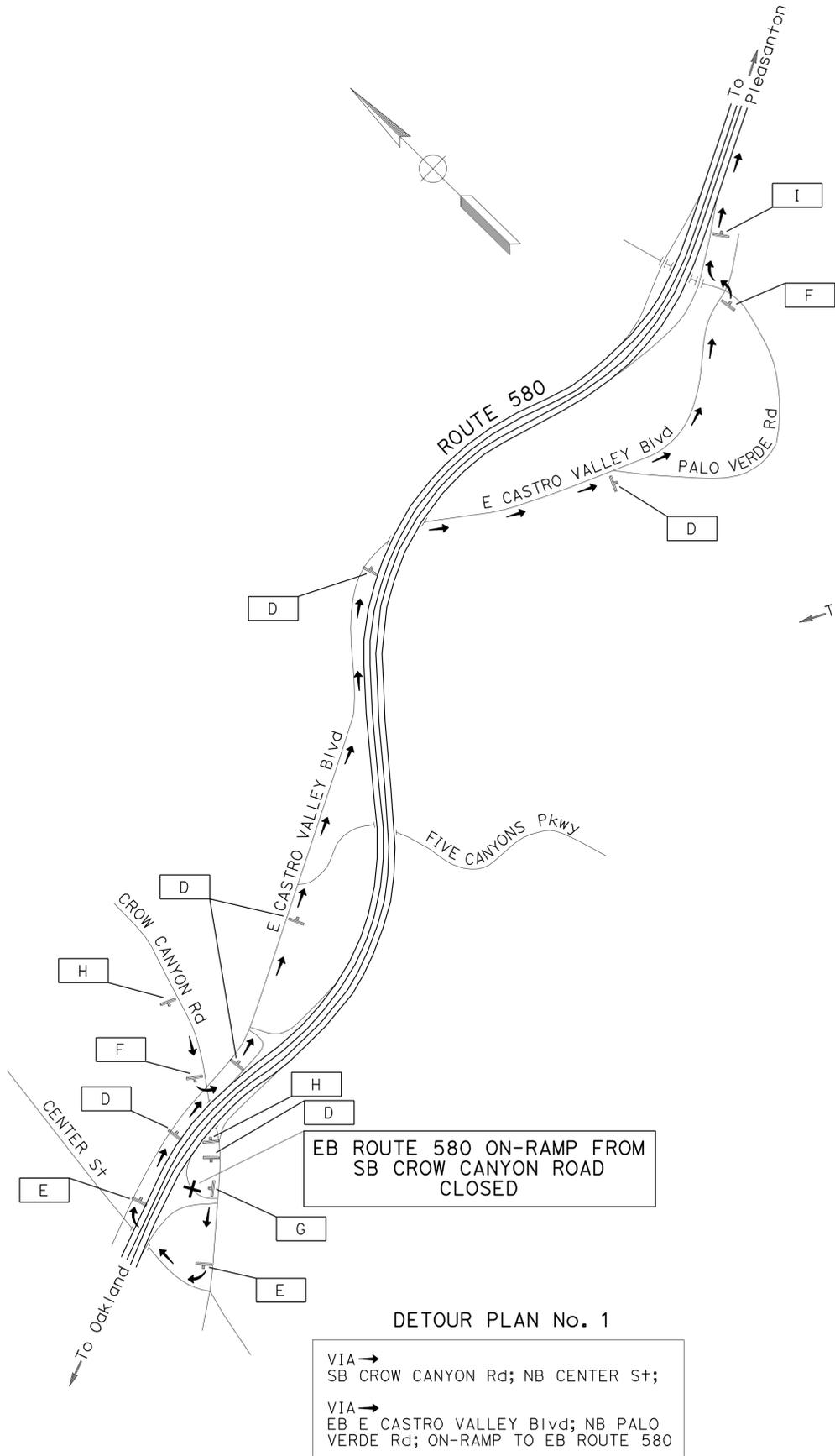
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	580, 680, 880	Var	3	16

8-28-12
 REGISTERED CIVIL ENGINEER DATE
 10-29-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Florante P. Perez
 No. 41030
 Exp. 3-31-13
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	RAMON N. CRUZ	REVISOR	A
ET Caltrans	LOURDES DAVID	CHECKED BY	FLORANTE P. PEREZ	DATE REVISED	A



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	580, 680, 880	Var	4	16

Florante P. Perez 8-28-12
 REGISTERED CIVIL ENGINEER DATE

10-29-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Florante P. Perez
 No. 41030
 Exp. 3-31-13
 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	60" x 60"	(ONE) 4" x 6"	16
B	G20-2	END ROAD WORK	36" x 18"	(ONE) 4" x 4"	16
C	W20-1	ROAD WORK AHEAD	48" x 48"	(ONE) 4" x 6"	1
D	M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	6
	G27-2 (CA)	ROUTE 580	21" x 18"		
	M3-2	EAST	21" x 9"		
	M6-3 (↕)	STRAIGHT ARROW	21" x 15"		
E	M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	2
	G27-2 (CA)	ROUTE 580	21" x 18"		
	M3-2	EAST	21" x 9"		
	M6-1 (→)	RIGHT ARROW	21" x 15"		
F	M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	2
	G27-2 (CA)	ROUTE 580	21" x 18"		
	M3-2	EAST	21" x 9"		
	M6-1 (←)	LEFT ARROW	21" x 15"		
G	SC6-4 (CA)	RAMP CLOSED TIME, DATE	48" x 60"	(ONE) 4" x 4"	3
H	W20-2	DETOUR AHEAD	36" x 18"	(ONE) 4" x 4"	3
I	M4-8a	END DETOUR	30" x 18"	(ONE) 4" x 4"	2
J	M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	5
	G27-2 (CA)	ROUTE 680	21" x 18"		
	M3-1	NORTH	21" x 9"		
	M6-2 (↗)	UP-RIGHT ARROW	21" x 15"		
K	M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	2
	G27-2 (CA)	ROUTE 680	21" x 18"		
	M3-1	NORTH	21" x 9"		
	M6-1 (←)	LEFT ARROW	21" x 15"		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR
 LOURDES DAVID
 CALCULATED/DESIGNED BY
 CHECKED BY
 RAMON N. CRUZ
 FLORANTE P. PEREZ
 REVISED BY
 DATE REVISED
 A
 A

CONSTRUCTION AREA SIGNS

NO SCALE

CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

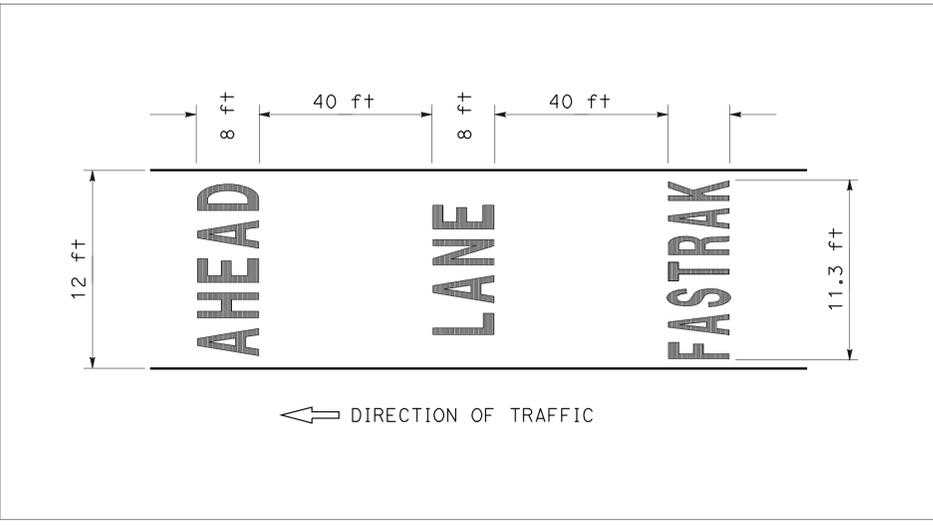
FOR NOTES AND LEGEND,
SEE SHEET CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	YETENDRA JANGID	REVISED BY	--
Caltrans	FUK NYAN KURNIAWAN	CHECKED BY			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	580, 680, 880	Var	5	16
			6-20-12	REGISTERED CIVIL ENGINEER DATE	
			10-29-12	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.



**PAVEMENT DELINEATION DETAILS
(FOR LOCATION 3)**

PDD-1

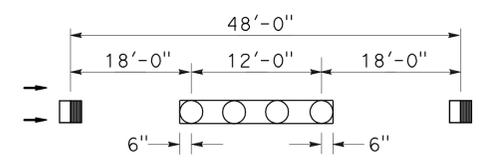
LAST REVISION | DATE PLOTTED => 29-OCT-2012 | 10-25-12 | TIME PLOTTED => 10:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	580, 680, 880	Var	6	16

REGISTERED CIVIL ENGINEER DATE 6-20-12
 10-29-12
 PLANS APPROVAL DATE

Fuk Nyan Kurniawan
 No. 64659
 Exp. 6-30-13
 CIVIL

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.



DETAIL 13M

NOTES:

1. INSTALL 4" WHITE STRIPE AFTER INSTALLING PAVEMENT MARKERS.
2. PAVEMENT DELINEATION SHALL NOT BE REMOVED AT MORE THAN 2 LOCATIONS AT THE SAME TIME. TEMPORARY PAVEMENT DELINEATION FOR THIS REQUIREMENT SHALL BE PAINTED TRAFFIC STRIPE OR PERMANENT PAVEMENT DELINEATION.

LEGEND:

- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE A WHITE NON-REFLECTIVE
- 4" WHITE

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	BRIDGE NAME BRIDGE NUMBER CO-RTE-PM	DETAIL No. OR PAVEMENT MARKING	REMOVE			PAVEMENT MARKER			THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING SQFT	
			PAVEMENT MARKER EA	THERMOPLASTIC TRAFFIC STRIPE		THERMOPLASTIC PAVEMENT MARKING SQFT	NON- REFLECTIVE TYPE A	RETROREFLECTIVE		SOLID		BROKEN			SOLID WHITE 8"
				YELLOW	WHITE			TYPE G	TYPE H	YELLOW	WHITE	12-3	35-13		
				LF			EA	LF							
1	GRANT LINE RD UC BR # 33-0196R ALA-580-R1.480	13M	12		26		8	4					70		
		27B			40					40					
3	MARINE STREET UC BR # 28-0139 CC-580-R5.430	13M	56		130		41	15					472		
		27B			313					313					
		25	10		313				10	313					
		37B	14		64				14			316			
		LANE				12				340				12	
		AHEAD FASTRAK				62 182								62 182	
4	EDEN CANYON ROAD UC BR # 33-0225L ALA-580-R26.230	13M	24		51		15	9					190		
		27B			60					60					
		25	4		60				4	60					
5	CROW CANYON ROAD UC BR # 33-0233L ALA-580-R28.410	13M	18		31		12	6		114		114			
7	ROUTE 580/238 SEPARATION BR # 33-0214L ALA-580-R30.590	13M	426		1100		338	88					4060		
		25	44		2200				44	2200					
		36	14		672				14				336		
8	PINE VALLEY ROAD UC BR # 28-0221 CC-680-R1.090	13M	12		26		8	4				90			
9	MONTEVIDEO ROAD UC BR # 28-0222 CC-680-R1.890	13M	90		210		66	24				768			
		27B			254					254					
11	S680-W580 CONNECTOR BR # 33-0644F ALA-680-R20.220	25	8		254				8	254					
		27B			340				8	340					
		38	16		680				16			340			
12	WHIPPLE ROAD UC BR # 33-0245 ALA-880-13.67	DIAMOND SYMBOL			22								22		
		13 M	119		287		91	28				1036			
		27B			296					296					
		25	8		296				8	296					
SUBTOTAL			875	3167	6780	278	579	222	74	3167	3617	316	6800	676	278
TOTAL			875	3167	6780	278	579	296		6784		316	6800	676	278

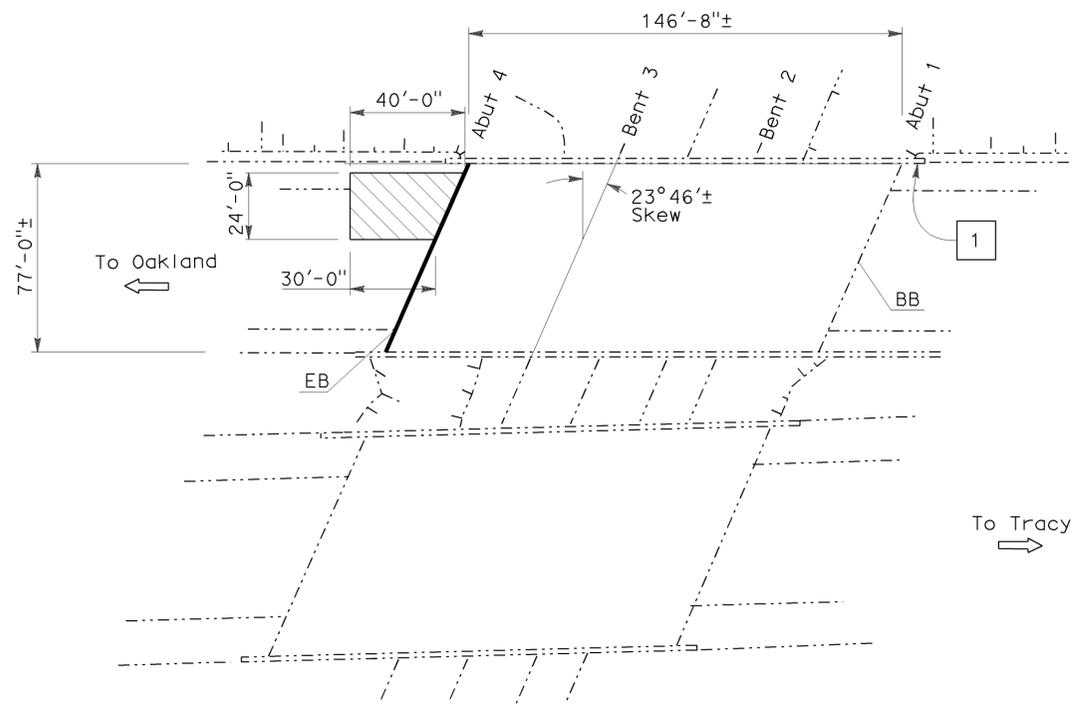
ALL DELINEATION DETAILS/PAVEMENT MARKING/MARKERS SHALL BE REPLACED IN KIND AND AT THE SAME LOCATION AS EXISTING.

**PAVEMENT DELINEATION
QUANTITIES**

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 Et Caltrans®
 FUNCTIONAL SUPERVISOR: FUK NYAN KURNIAWAN
 CALCULATED/DESIGNED BY: YETENDRA JANGID
 CHECKED BY: ABDUL REJA
 REVISED BY: --
 DATE REVISED: --

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Alameda	580, 680 880	Var	7	16
REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE			10-29-12		
REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					
To get to the Caltrans web site, go to: http://www.dot.ca.gov					



1 GRANT LINE ROAD UNDERCROSSING
 Br No. 33-0196R Rte 580, PM R1.48
 No Scale

LEGEND:

- Indicates existing structure
- ⇒ Indicates direction of traffic
- /— Indicates location to clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DETAILS" sheet for details.
- ▨ Indicates limits to remove and replace the approach slabs in lanes 4 and 5. See "STRUCTURE APPROACH TYPE R(30D)" sheet for details.
- 1 Indicates location to paint bridge identification as follows:
 1 GRANT LINE ROAD UC
 BR NO 33-0196R PM R1.48
 1969
- Indicates bridge location. See "TITLE" sheet.

GRANT LINE ROAD UNDERCROSSING BRIDGE NO 33-0196R

QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	3	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	31	CY
PAVING NOTCH EXTENSION	20	CF
PAINT BRIDGE IDENTIFICATION	LUMP	SUM
CLEAN EXPANSION JOINT	87	LF
JOINT SEAL (MR 1")	87	LF

GENERAL NOTES

MATERIALS:
 STRUCTURAL CONCRETE :
 f'c = 4500 psi
 REINFORCING BAR:
 f'y = 600 ksi
 ASTM A706, GRADE 60

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	GENERAL PLAN No. 3
4	GENERAL PLAN No. 4
5	GENERAL PLAN No. 5
6	GENERAL PLAN No. 6
7	GENERAL PLAN No. 7
8	DECK REPAIR DETAILS
9	JOINT SEAL TABLE AND DETAILS
10	STRUCTURE APPROACH TYPE R(30D)

STANDARD PLANS DATED MAY 2010

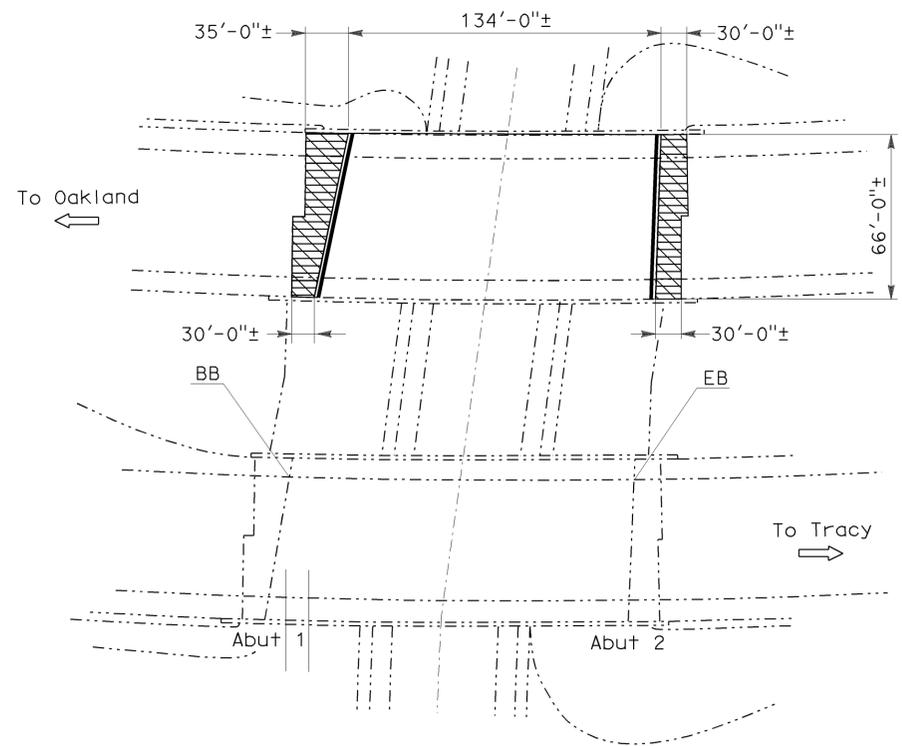
SHEET No.	TITLE
A10A TO A10B	ABBREVIATIONS
A10C TO A10E	LINES AND SYMBOLS
B6-21	JOINT SEALS (MAXIMUM MR = 2")

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

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

 DESIGN ENGINEER 7-05-12	DESIGN	BY C. Lee	CHECKED R. CASTRO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	33-0196R	GRANT LINE ROAD UC GENERAL PLAN 1	
	DETAILS	BY B. Ballesteros	CHECKED C. Lee	LAYOUT	BY B. Ballesteros			CHECKED C. Lee	POST MILE		R1.48
	QUANTITIES	BY C. Lee	CHECKED R. CASTRO	SPECIFICATIONS	BY B. Naqid			PLANS AND SPECS COMPARED K. Meier	UNIT: 04609		PROJECT NUMBER & PHASE: 0400021095

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Alameda	580, 680, 880	Var	9	16
REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE			10-29-12		
REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					
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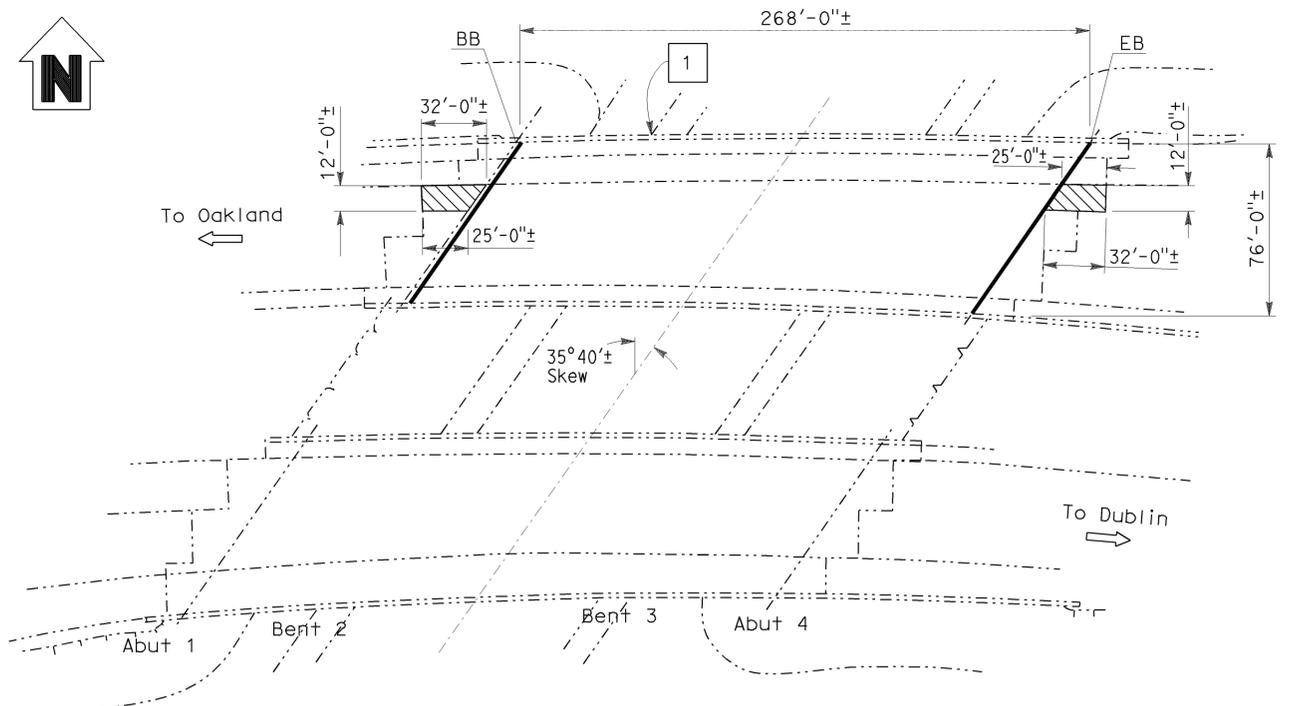
- LEGEND:**
- Indicates existing structure
 - Indicates direction of traffic
 - /— Indicates location to clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DETAILS" sheet for details.
 - ▨ Indicates limits to remove and replace the approach slabs in lane 4. See "STRUCTURE APPROACH TYPE R(30D)" sheet for details.
 - ▩ Indicates limits to remove and replace the approach slabs on Abutments 1 and 2. See "STRUCTURE APPROACH TYPE R(30D)" sheet for details.
 - - Indicates bridge location. See "TITLE" sheet.
 - 1 Paint bridge ID on column at Bent 2.

4 EDEN CANYON ROAD UNDERCROSSING

Br No. 33-0225L, Rte 580, PM R26.23
No Scale

EDEN CANYON ROAD BRIDGE NO 33-0225L

QUANTITIES	
AGGREGATE BASE (APPROACH SLAB)	15 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	153 CY
PAVING NOTCH EXTENSION	104 CF
CLEAN EXPANSION JOINT	138 LF
JOINT SEAL (MR 1")	138 LF



5 CROW CANYON ROAD UNDERCROSSING

Br No. 33-0233L, Rte 580, PM R28.41
No Scale

CROW CANYON ROAD UNDERCROSSING BRIDGE NO 33-0223L

QUANTITIES	
AGGREGATE BASE (APPROACH SLAB)	3 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	25 CY
PAVING NOTCH EXTENSION	21 CF
PAINT BRIDGE IDENTIFICATION	LUMP SUM
CLEAN EXPANSION JOINT	192 LF
JOINT SEAL (MR 1 1/2")	192 LF

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

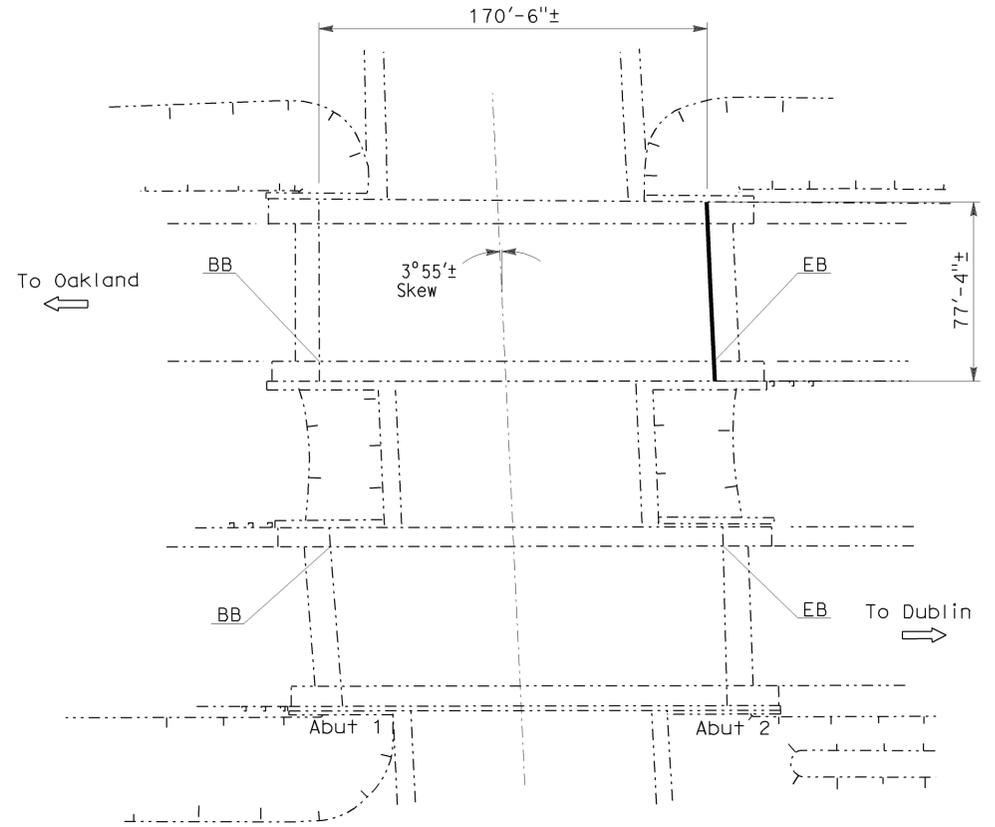
DESIGN	BY C. Lee	CHECKED R. Castro	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY B. Ballesteros	CHECKED C. Lee	LAYOUT	BY B. Ballesteros
QUANTITIES	BY C. Lee	CHECKED R. Castro	SPECIFICATIONS	BY B. Naqid
				CHECKED C. Lee
				PLANS AND SPECS COMPARED K. Meier

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE AND INVESTIGATIONS	VARIOUS
		POST MILE
		VARIES

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS	
EDEN CANYON ROAD UC & CROW CANYON ROAD UC	
GENERAL PLAN 3	

USERNAME => s114592 DATE PLOTTED => 25-OCT-2012 TIME PLOTTED => 11:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Ala	580,680 880	Var	10	16
REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE			10-29-12		
REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					
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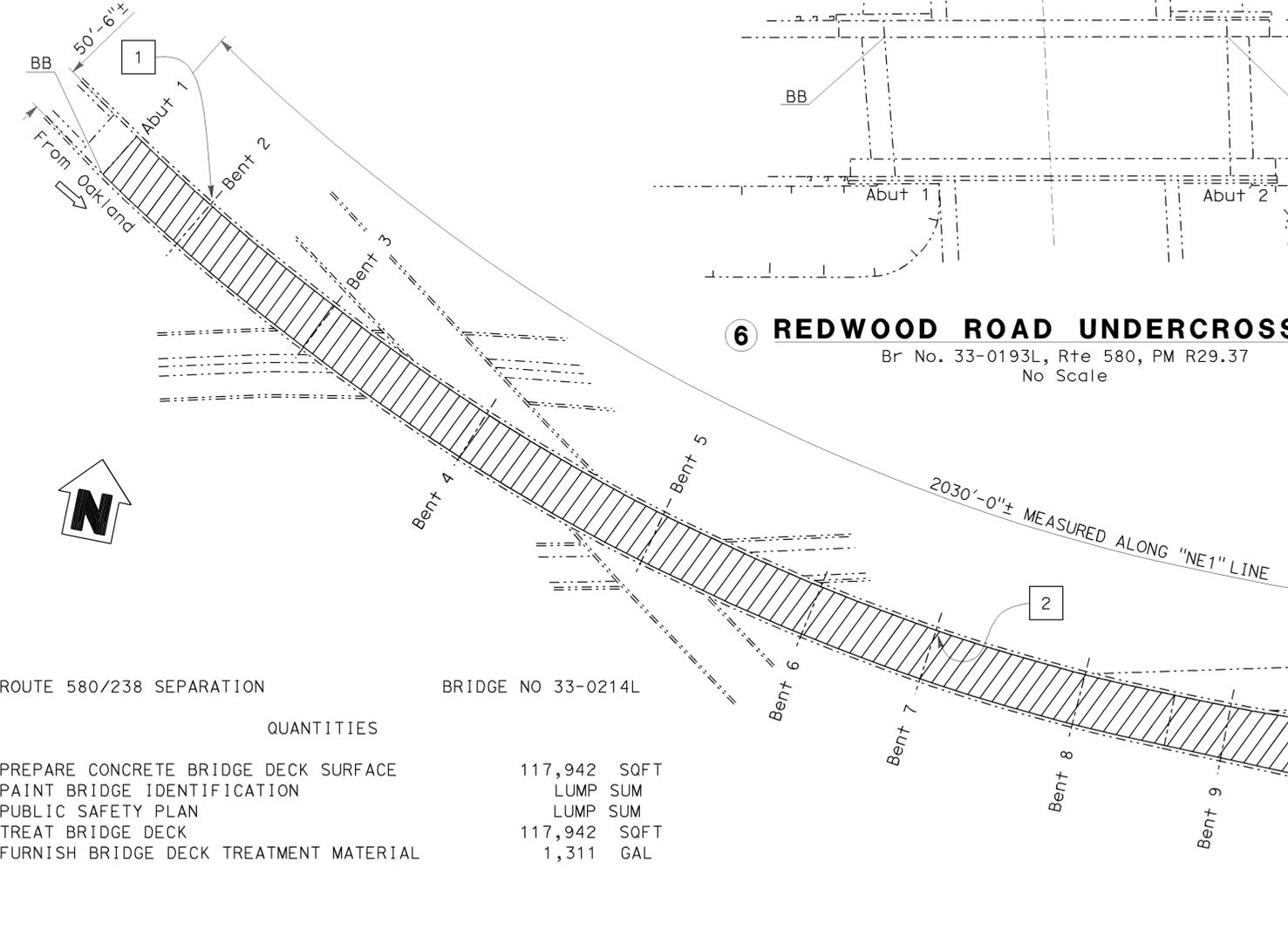
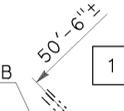
- LEGEND:**
- Indicates existing structure
 - ➔ Indicates direction of traffic
 - /— Indicates location to clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DETAILS" sheet for details.
 - ▨ Indicates limits to prepare and treat deck with high molecular weight methacrylate. See "DECK REPAIR DETAILS" sheet for details.
 - 1 Indicates location to paint bridge identification as follows:
580/238 SEPARATION
BR NO 33-0214L PM R30.59
1988
 - 2 Paint bent no. on railing typical.
 - Indicates bridge location. See "TITLE" sheet.

6 REDWOOD ROAD UNDERCROSSING
 Br No. 33-0193L, Rte 580, PM R29.37
 No Scale

REDWOOD ROAD UNDERCROSSING BRIDGE NO 33-0193L

QUANTITIES

CLEAN EXPANSION JOINT	80 LF
JOINT SEAL (MR 1")	80 LF



7 ROUTE 580/238 SEPARATION
 Br No. 33-0214L, Rte 580, PM R30.59
 No Scale

ROUTE 580/238 SEPARATION BRIDGE NO 33-0214L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	117,942 SOFT
PAINT BRIDGE IDENTIFICATION	LUMP SUM
PUBLIC SAFETY PLAN	LUMP SUM
TREAT BRIDGE DECK	117,942 SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,311 GAL

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

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

REDWOOD ROAD UC & ROUTE 580/238 SEPARATION

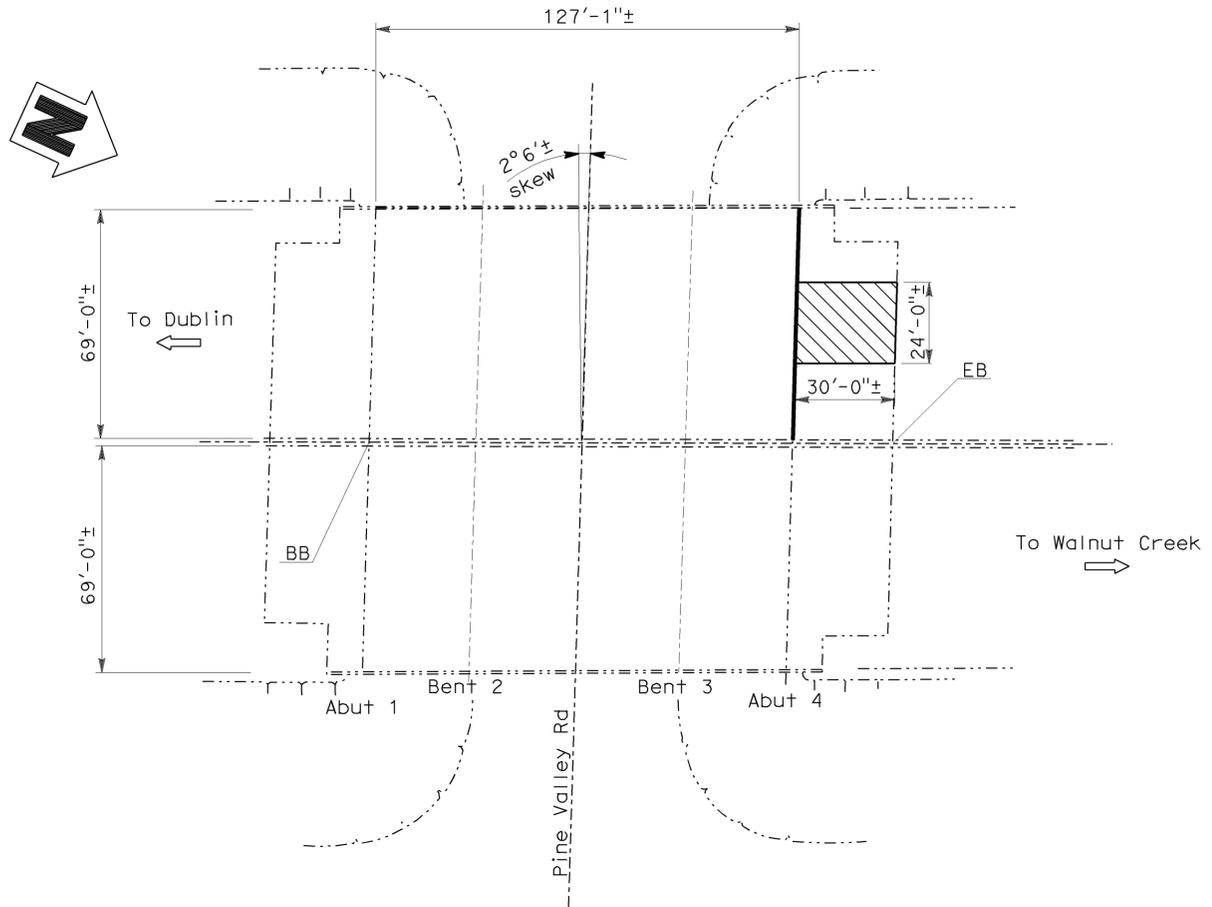
GENERAL PLAN 4

DESIGN BY C. Lee	CHECKED R. Castro	LOAD FACTOR DESIGN BY B. Ballesteros	LIVE LOADING: AND PERMIT DESIGN LOAD HS20-44 AND ALTERNATIVE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. VARIOUS
DETAILS BY B. Ballesteros	CHECKED C. Lee	LAYOUT BY B. Ballesteros	CHECKED C. Lee			POST MILE VARIES
QUANTITIES BY C. Lee	CHECKED R. Castro	SPECIFICATIONS BY B. Naqid	PLANS AND SPECS COMPARED K. Meier			

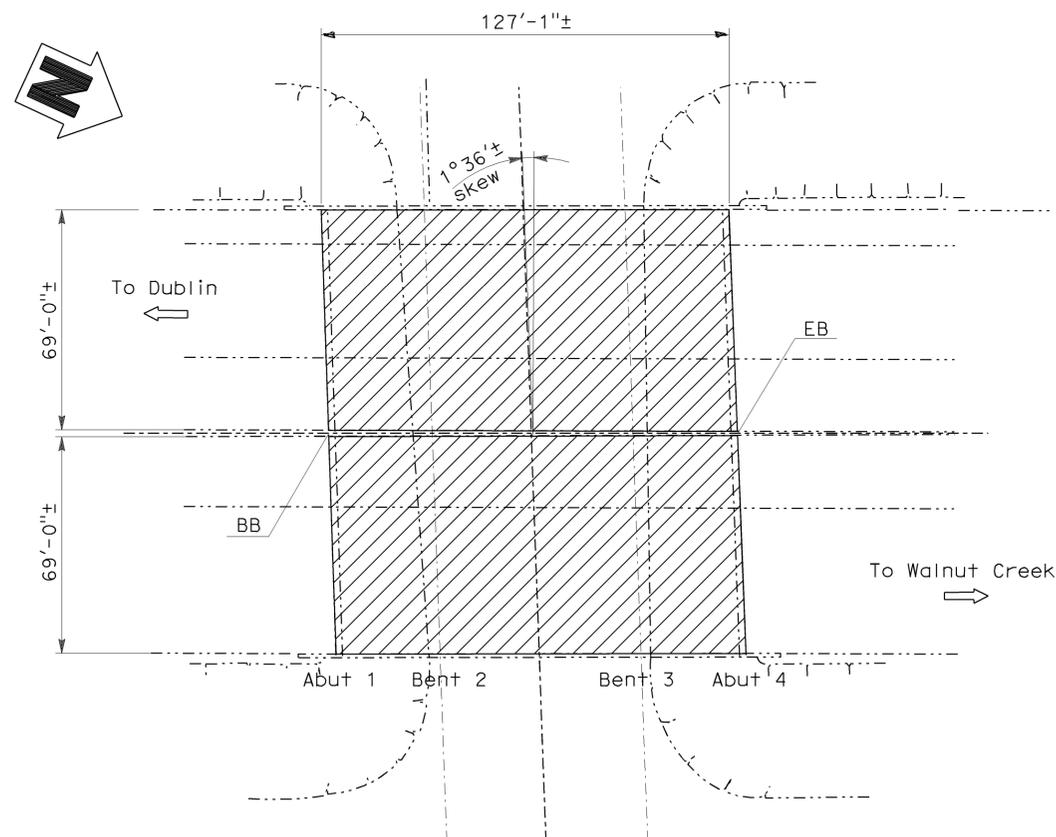
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Ala	580,680 880	Var	11	16
REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE			10-29-12		
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To get to the Caltrans web site, go to: http://www.dot.ca.gov					

LEGEND:

- Indicates existing structure
- Indicates direction of traffic
- Indicates location to clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DETAILS" sheet for details.
- ▨ Indicates limits to prepare and treat deck with high molecular weight methacrylate. See "DECK REPAIR DETAILS" sheet for details.
- ▨ Indicates limits to remove and replace the approach slabs in lanes 2 and 3. See "STRUCTURE APPROACH TYPE R(30D)" sheet for details.
- Indicates bridge location. See "TITLE" sheet.



8 PINE VALLEY ROAD UNDERCROSSING
 Br No. 28-0221, Rte 680, PM R1.09
 No Scale



9 MONTEVIDEO ROAD UNDERCROSSING
 Br No. 28-0222, Rte 680, PM R1.89
 No Scale

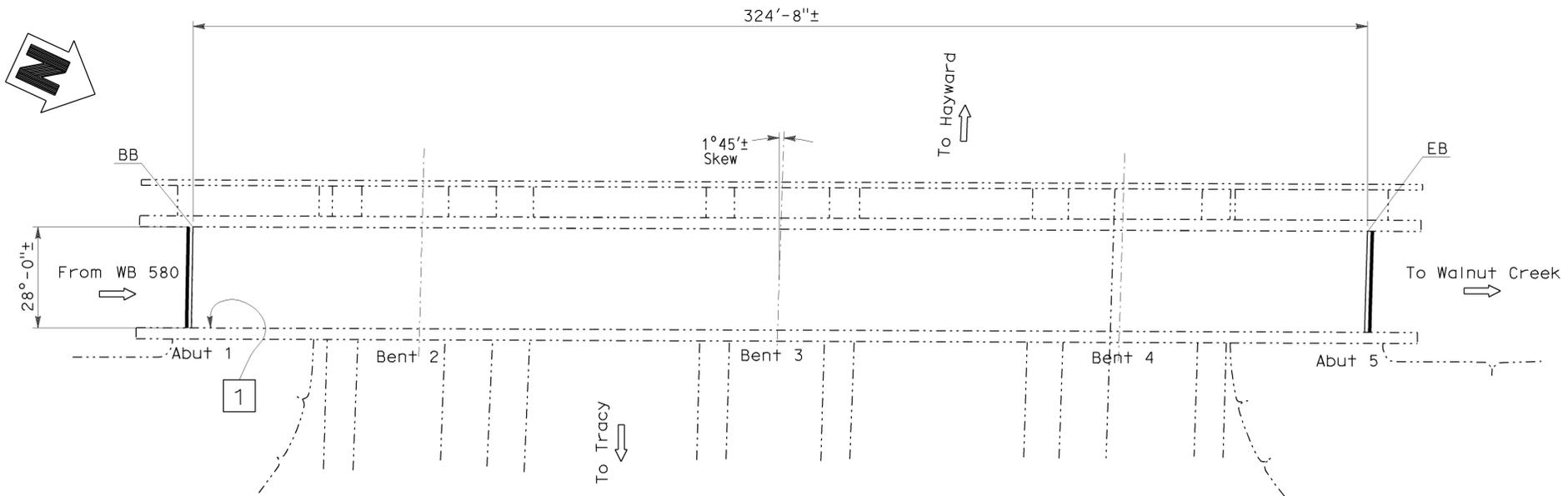
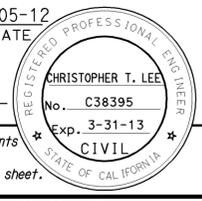
MONTEVIDEO ROAD UNDERCROSSING	BRIDGE NO 28-0222	PINE VALLEY ROAD UNDERCROSSING	BRIDGE NO 28-0221
QUANTITIES		QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	17,540 SQFT	AGGREGATE BASE (APPROACH SLAB)	3 CY
PUBLIC SAFETY PLAN	LUMP SUM	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	27 CY
TREAT BRIDGE DECK	17,540 SQFT	PAVING NOTCH EXTENSION	21 CF
FURNISH BRIDGE DECK TREATMENT MATERIAL	195 GAL	CLEAN EXPANSION JOINT	72 LF
		JOINT SEAL (MR 1")	72 LF

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

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS
PINE VALLEY ROAD UC & MONTEVIDEO ROAD UC
GENERAL PLAN 5

DESIGN	BY C. Lee	CHECKED R. Castro	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	PINE VALLEY ROAD UC & MONTEVIDEO ROAD UC GENERAL PLAN 5	
DETAILS	BY B. Ballesteros	CHECKED C. Lee	LAYOUT	BY B. Ballesteros			CHECKED C. Lee		VARIOUS
QUANTITIES	BY C. Lee	CHECKED R. Castro	SPECIFICATIONS	BY B. Nagid			PLANS AND SPECS COMPARED K. Meier		POST MILE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Alameda	580, 680 880	Var	12	16
REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE			10-29-12		
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To get to the Caltrans web site, go to: http://www.dot.ca.gov					



10 ROUTE 680/580 SEPARATION N680/580

Br No. 33-0371G, Rte 680, PM R20.03
No Scale

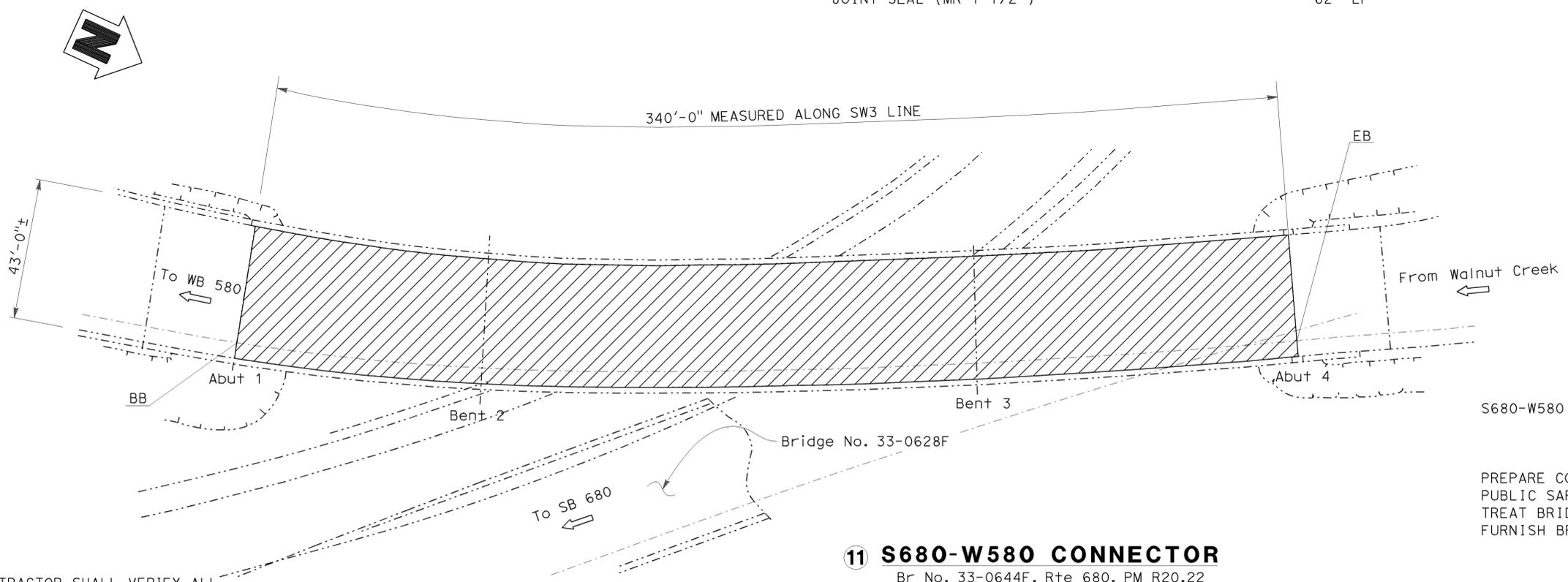
ROUTE 680/580 SEPARATION BRIDGE NO 33-0371G

QUANTITIES

PAINT BRIDGE IDENTIFICATION	LUMP SUM
CLEAN EXPANSION JOINT	62 LF
JOINT SEAL (MR 1 1/2")	62 LF

LEGEND:

- Indicates existing structure
- ➔ Indicates direction of traffic
- ▬ Indicates location to clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DETAILS" sheet for details.
- ▨ Indicates limits to prepare and treat deck with high molecular weight methacrylate. See "DECK REPAIR DETAILS" sheet for details.
- 1 Indicates location to paint bridge identification as follows:
ROUTE 680/580 SEPARATION (N680/W580)
BR NO 33-0371G PM R20.03
1965
- Indicates bridge location. See "TITLE" sheet.



11 S680-W580 CONNECTOR

Br No. 33-0644F, Rte 680, PM R20.22
No Scale

S680-W580 CONNECTOR BRIDGE NO 33-0644F

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	14,620	SQFT
PUBLIC SAFETY PLAN	LUMP SUM	
TREAT BRIDGE DECK	14,620	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	163	GAL

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

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

ROUTE 680/580 SEPARATION N680/W580 & S680-W580 CONNECTOR

GENERAL PLAN 6

Hongyan Su
DESIGN ENGINEER 7-05-12

DESIGN	BY C. Lee	CHECKED R. Castro	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY B. Ballesteros	CHECKED C. Lee	LAYOUT	BY B. Ballesteros
QUANTITIES	BY C. Lee	CHECKED R. Castro	SPECIFICATIONS	BY B. Nagid

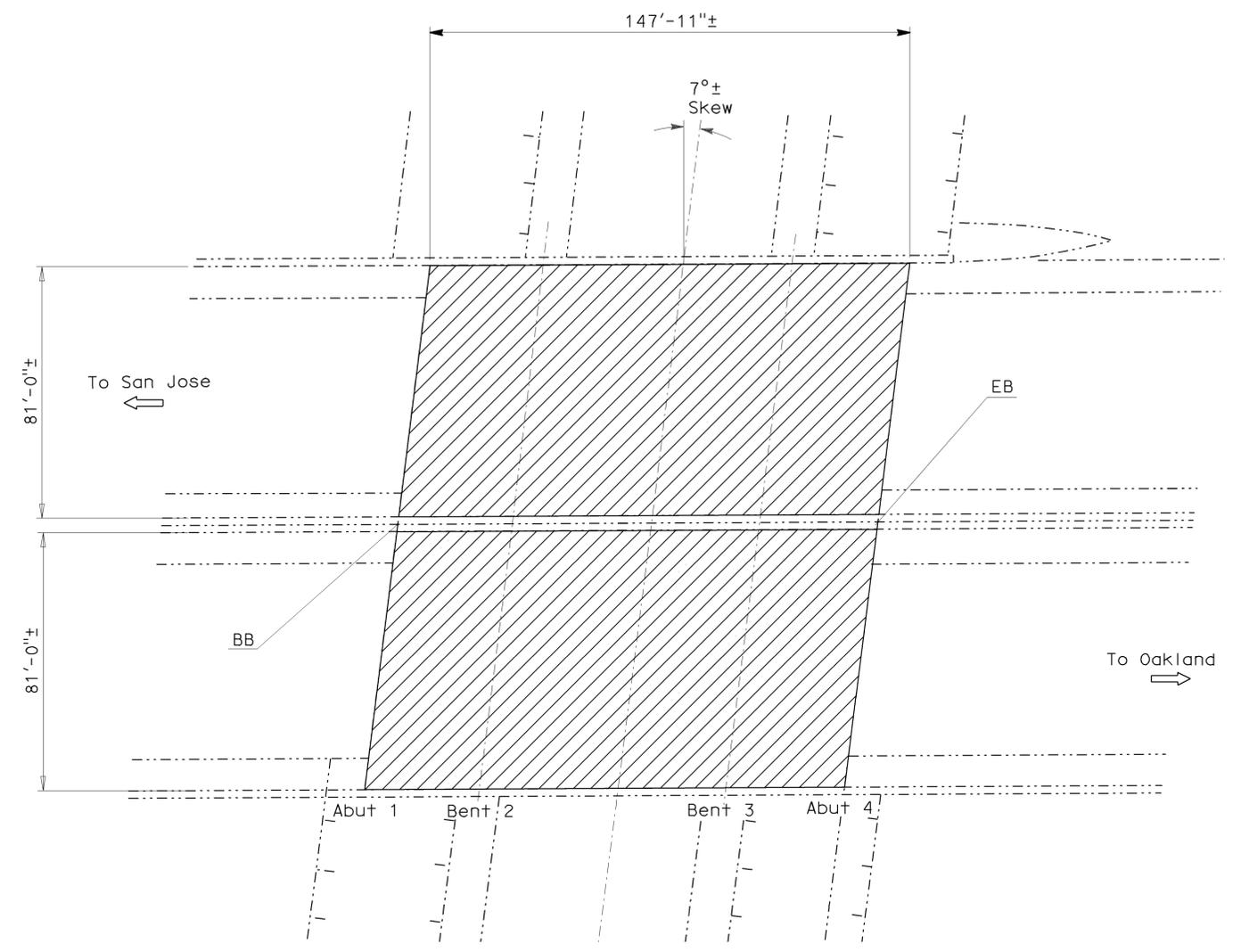
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. VARIOUS
POST MILE VARIES

USERNAME => s114592 DATE PLOTTED => 25-OCT-2012 TIME PLOTTED => 11:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Alameda	580,680 880	Var	13	16
REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE			10-29-12		
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To get to the Caltrans web site, go to: http://www.dot.ca.gov					



LEGEND:

- Indicates existing structure
- ⇒ Indicates direction of traffic
- Indicates limits to prepare and treat deck with high molecular weight methacrylate. See "DECK REPAIR DETAILS" sheet for details.
- ⊖ Indicates bridge location. See "TITLE" sheet.

12 WHIPPLE ROAD UNDERCROSSING
 Br No. 33-0245, Rte 880, PM 13.67
 No Scale

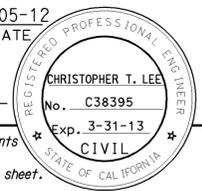
WHIPPLE ROAD UNDERCROSSING	BRIDGE NO 33-0245
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	23,960 SQFT
PUBLIC SAFETY PLAN	LUMP SUM
TREAT BRIDGE DECK	23,960 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	267 GAL

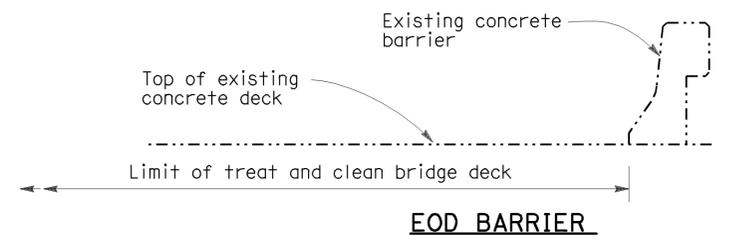
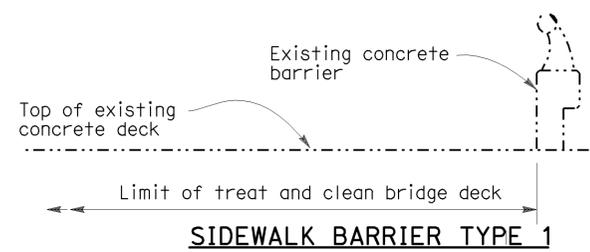
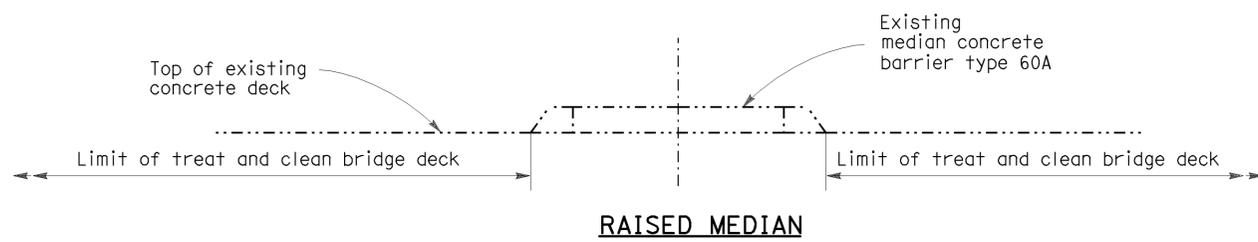
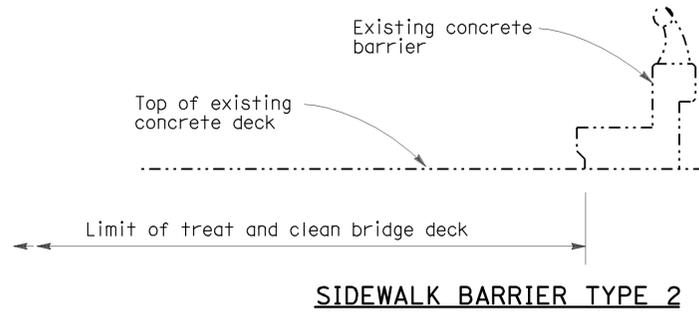
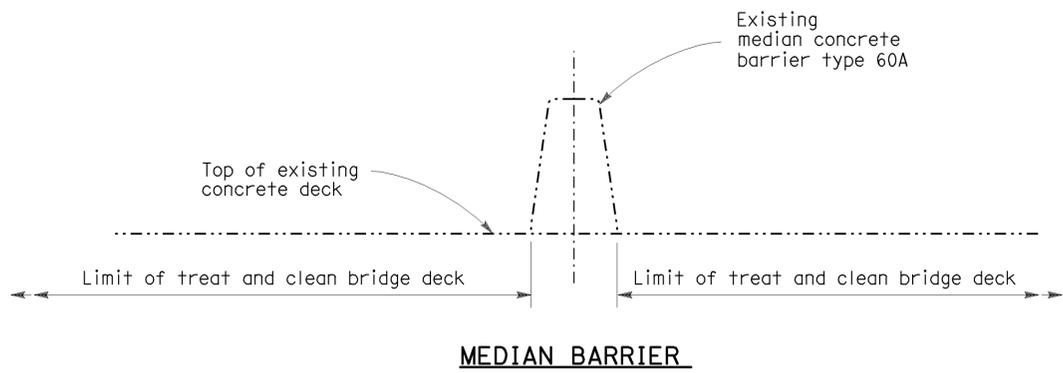
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	DESIGN	BY C. Lee	CHECKED R. Castro	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	33-0245	
	DETAILS	BY B. Ballesteros	CHECKED C. Lee	LAYOUT	BY B. Ballesteros			CHECKED C. Lee	POST MILE	13.67
	QUANTITIES	BY C. Lee	CHECKED R. Castro	SPECIFICATIONS	BY B. Nagid			PLANS AND SPECS COMPARED	K. Meier	

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

**WHIPPLE ROAD UNDERCROSSING
 GENERAL PLAN 7**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Alameda	580,680 880	Var	14	16
 REGISTERED CIVIL ENGINEER			DATE	07-05-12	
PLANS APPROVAL DATE 10-29-12					
<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>					



DECK REPAIR NOTES:

1. For bridge locations, see "TITLE" sheet.
2. Locations and limits of deck repair will be determined by the Engineer.
3. Reinforcement may be encountered during removal of unsound concrete.
4. Existing reinforcement shall be protected in place during removal of unsound concrete and patching operations.
5. It is the responsibility of the contractor to repair any reinforcement that is damaged by saw cutting operations.
6. When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.
7. The saw cut depth shall not exceed 1 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
8. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

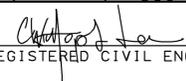
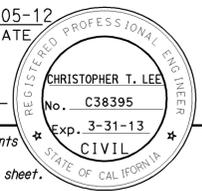
TYPICAL LIMITS OF DECK WORK

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

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY C. Lee	CHECKED R. Castro	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	VARIOUS BRIDGES DECK REPAIR DETAILS				
	DETAILS	BY B. Ballesteros	CHECKED C. Lee			VARIOUS					
	QUANTITIES	BY C. Lee	CHECKED R. Castro			POST MILE VARIES					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 04609	PROJECT NUMBER & PHASE: 0400021095	CONTRACT NO.: 04-2E7401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
									03-05-12 05-09-12 06-11-12 09-18-12	8	10

USERNAME => s114592 DATE PLOTTED => 25-OCT-2012 TIME PLOTTED => 11:28:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC, Ala	580,680 880	Var	15	16
 REGISTERED CIVIL ENGINEER			07-05-12 DATE		
PLANS APPROVAL DATE			10-29-12		
<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>					

JOINT SEAL TABLE

BRIDGE LOCATION NO.	BRIDGE NUMBER	BRIDGE NAME	LOCATION	Min. "MR" (in)	APPROX. LENGTH (ft)	EXISTING WATERSTOP	APPROX. DEPTH TO CLEAN JOINTS
①	33-0196R	GRANT LINE ROAD UC	Abut 4	1	87	No	12"
②	33-0123R	STONE CUT OVERHEAD	Abut 1	1	85	No	12"
④	33-0225L	EDEN CANYON ROAD UC	Abut 1	1	69	No	12"
			Abut 2	1	69	No	12"
⑤	33-0233L	CROW CANYON ROAD UC	Abut 1	1½	96	No	12"
			Abut 4	1½	96	No	12"
⑥	33-0193L	REDWOOD ROAD UC	Abut 2	1	80	No	12"
⑧	28-0221	PINE VALLEY ROAD UC	Abut 4	1	72	No	12"
⑩	33-0371G	ROUTE 680/580 SEPARATION	Abut 1	1½	31	No	12"
			Abut 5	1½	31	No	12"

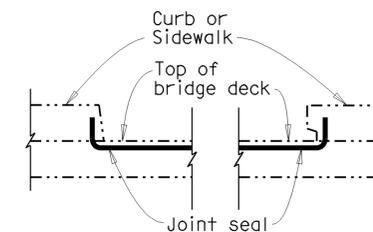
JOINT SEAL NOTES:

The following note applies to JOINT SEAL TYPE A:

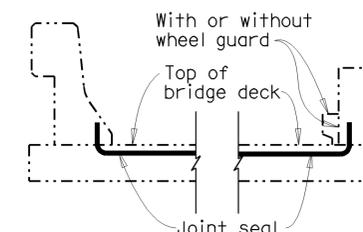
Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches sidewalk, curb, or barrier rail joint. For details not shown, see "DECK REPAIR DETAILS" sheet.

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
- Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches sidewalk, curb or barrier rail joint.



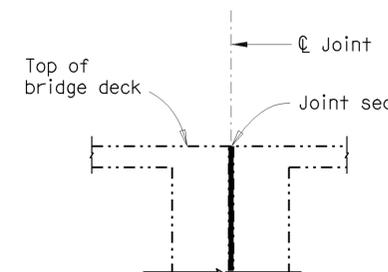
SIDEWALK



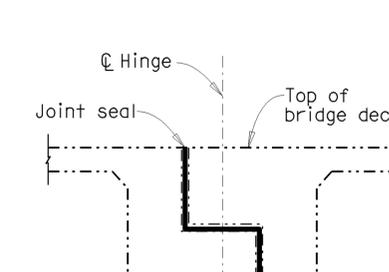
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

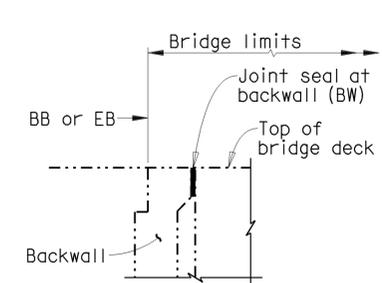
Details shown for illustration purposes only. For use only where deck joint matches sidewalk, curb or barrier rail joint. NO SCALE



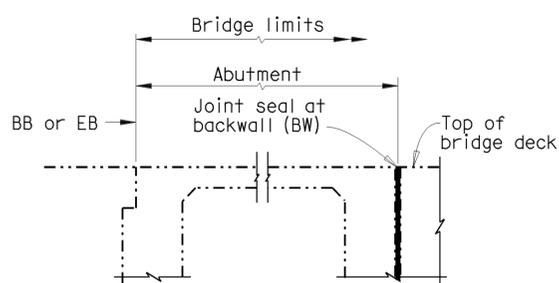
BENT



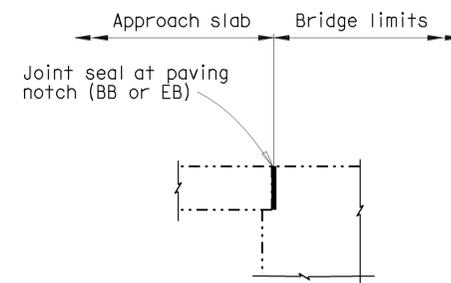
HINGE



ABUTMENT WITH BACKWALL



BIN TYPE ABUTMENT



DIAPHRAGM ABUTMENT

JOINT SEAL LOCATION

NO SCALE

NOTE:

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

DESIGN	BY C. Lee	CHECKED R. Castro	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	VARIOUS
DETAILS	BY B. Ballesteros	CHECKED C. Lee			POST MILE	VARIES
QUANTITIES	BY C. Lee	CHECKED R. Castro				

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

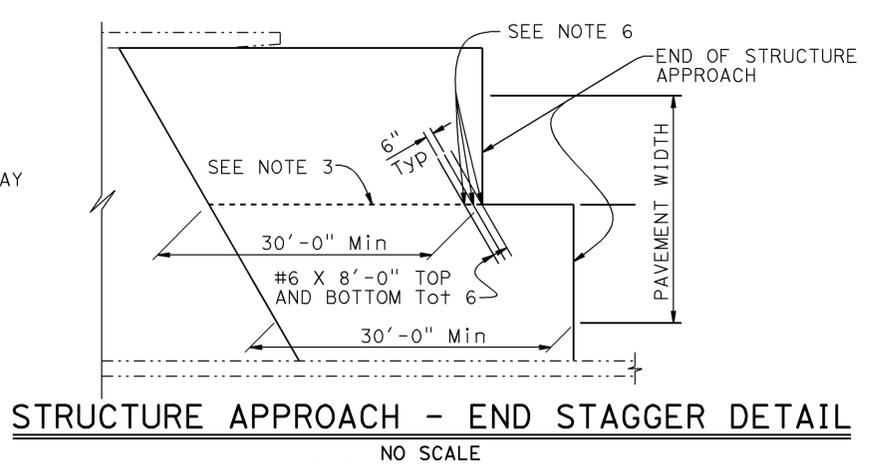
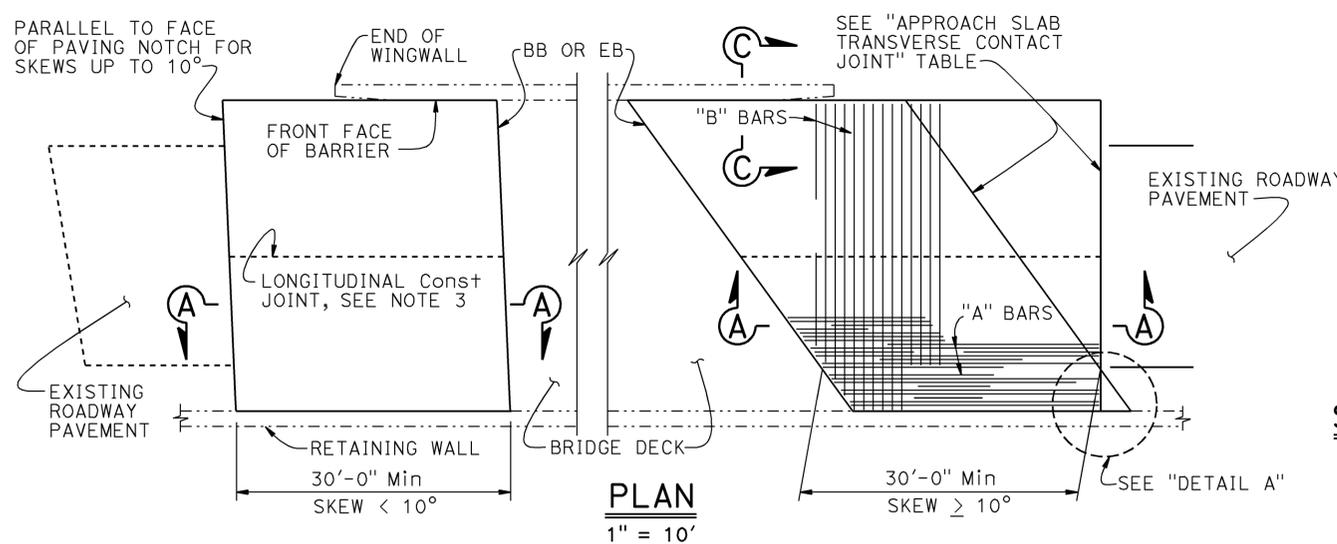
VARIOUS BRIDGES JOINT SEAL TABLE AND DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC, Ala	580,680 880	Var	16	16

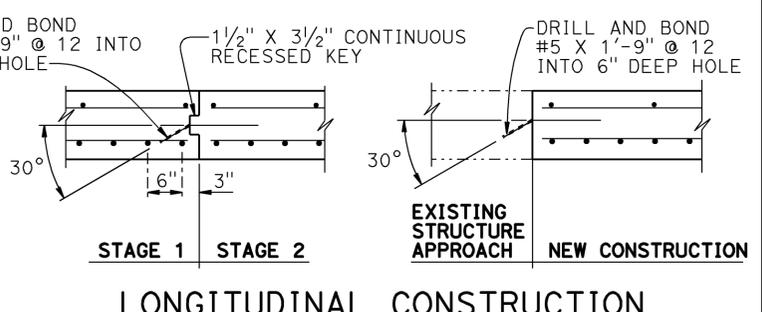
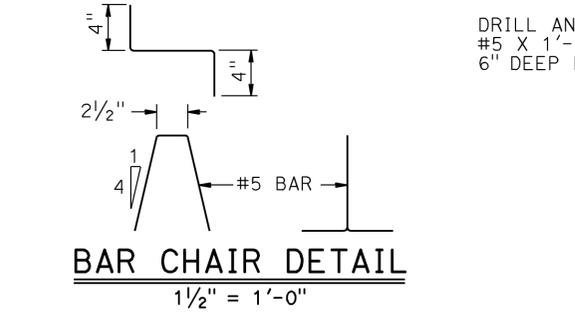
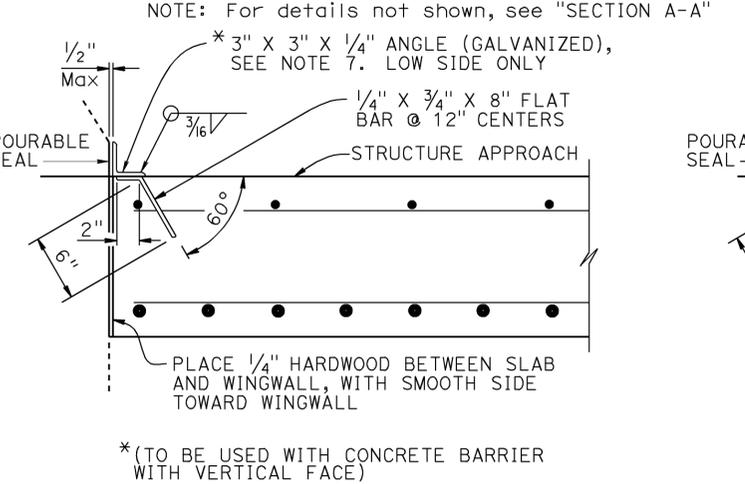
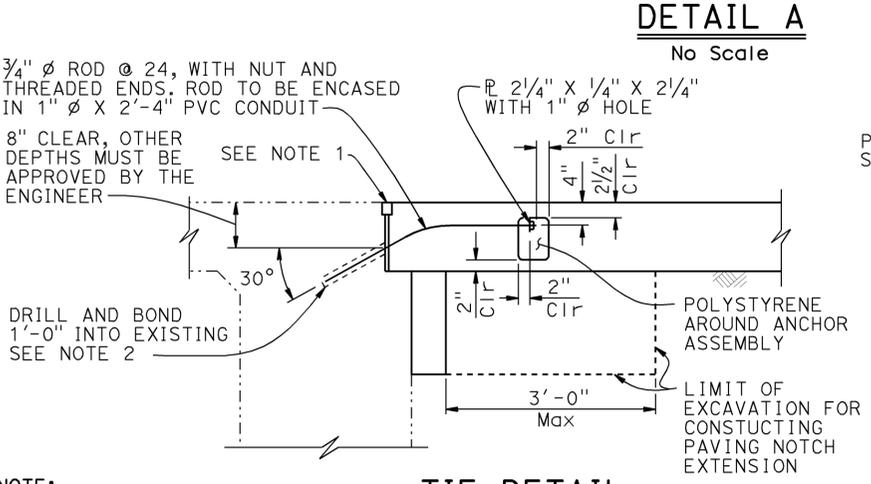
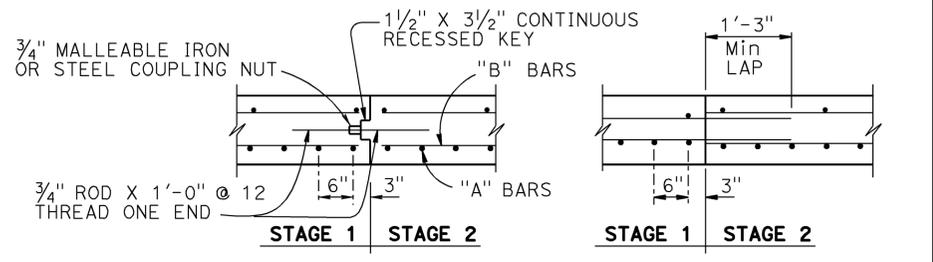
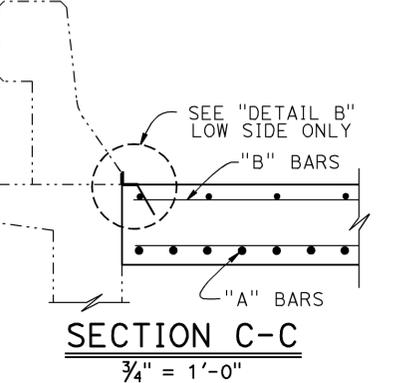
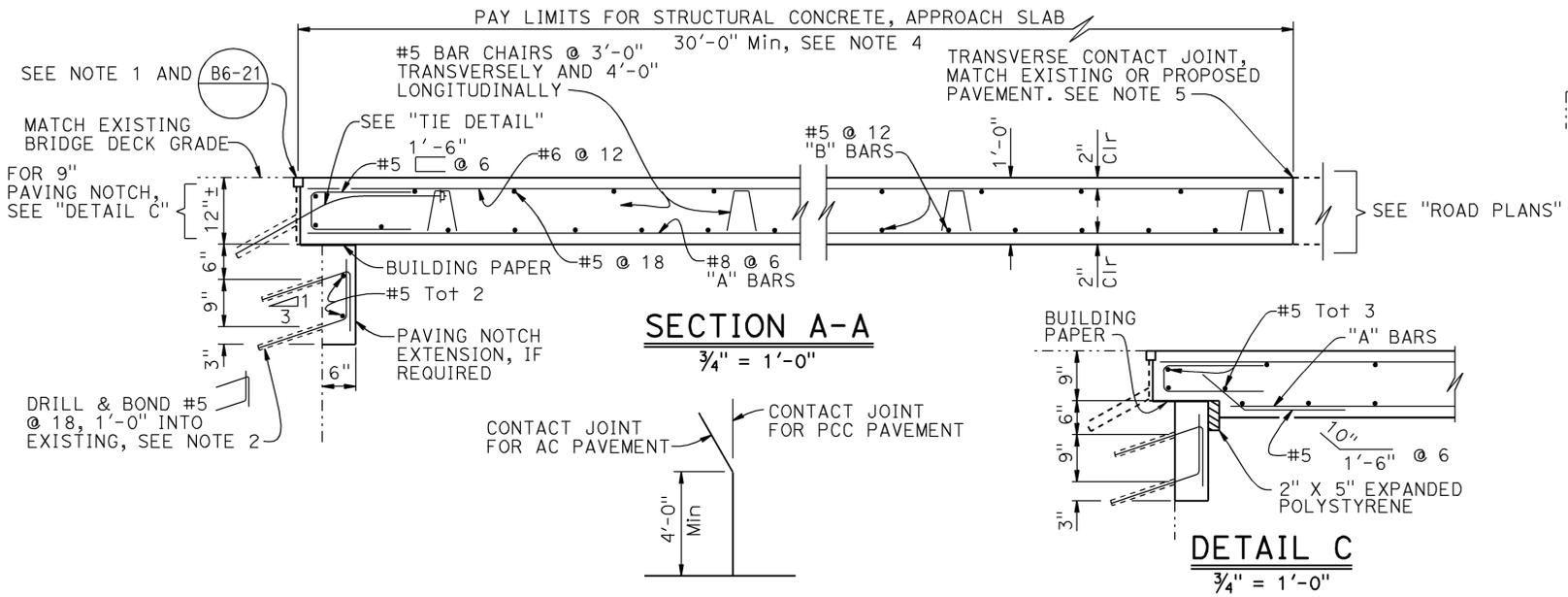
REGISTERED CIVIL ENGINEER
 DATE 07-05-12
 10-29-12
 PLANS APPROVAL DATE

CHRISTOPHER T. LEE
 No. C38395
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



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

- NOTES:
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Space to avoid existing prestress anchorages and main reinforcement
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10
 - Couplers are required for stage construction
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, APPROACH SLABS and BRIDGE DECK OVERLAYS

STANDARD DRAWING

FILE NO. **xs3-150**

APPROVAL DATE July 2011

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. VARIOUS
 POST MILE VARIES

PROJECT NUMBER & PHASE: 0400021095

CONTRACT NO.: 04-2E7401

VARIOUS BRIDGES

STRUCTURE APPROACH TYPE R(30D)

REVISION DATES

SHEET 10 OF 10