

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	1, 280	Var	13	24

HONGYUAN SU 07-16-12
 REGISTERED CIVIL ENGINEER DATE
 10-22-12
 PLANS APPROVAL DATE
 HONGYUAN SU
 No. C58260
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

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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	HINGE DETAIL NO. 1
9	HINGE DETAIL NO. 2
10	HINGE DETAIL NO. 3
11	HINGE DETAIL NO. 4
12	JOINT SEAL TABLE AND DECK REPAIR DETAILS

LEGEND:

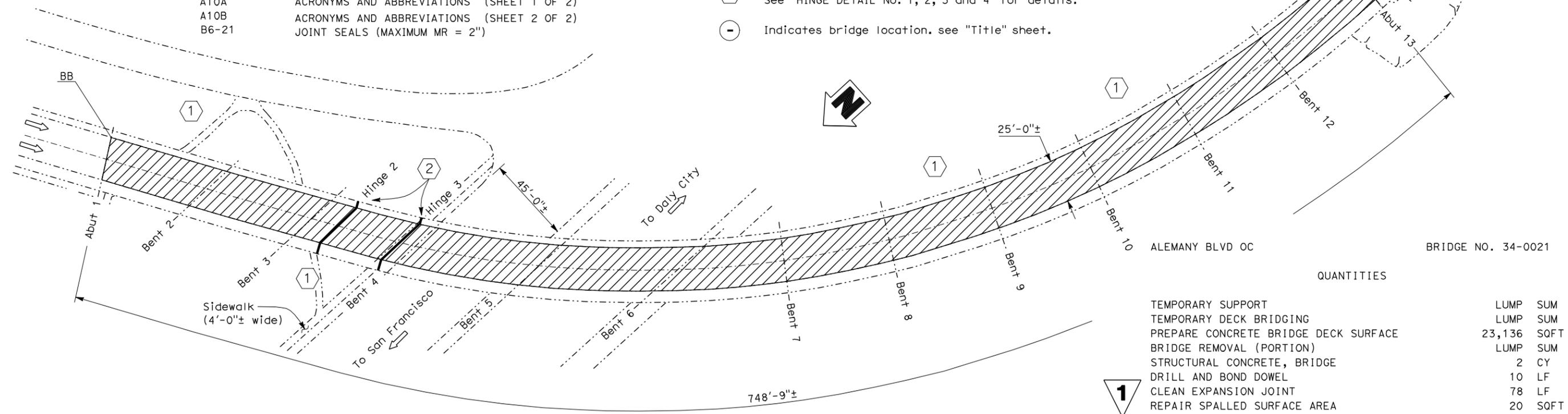
- Indicates existing structure
- ➔ Indicates direction of traffic
- ▬ Indicates limits of clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DECK REPAIR DETAILS" sheet.
- ▨ Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
- ① Repair spalled surface area along both concrete girders, See table and "REPAIR SPALLED SURFACE AREA DETAIL" on "HINGE DETAIL NO. 4" sheet.

Span No.	Est. no. of spalled area	Est. dimension of spalled area
1, 3, 8 10, 12	± 3 ea	± 2' x 8"

- ② Repair hinges 2 and 3. Temporary supports are needed at both hinges. See "HINGE DETAIL No. 1, 2, 3 and 4" for details.
- ⊖ Indicates bridge location. see "Title" sheet.

STANDARD PLANS DATED MAY 2010

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MR = 2")



ALEMANY BLVD OC BRIDGE NO. 34-0021

QUANTITIES

ITEM	UNIT	SUM
TEMPORARY SUPPORT	LUMP	SUM
TEMPORARY DECK BRIDGING	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	23,136	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	2	CY
DRILL AND BOND DOWEL	10	LF
CLEAN EXPANSION JOINT	78	LF
REPAIR SPALLED SURFACE AREA	20	SQFT
ELASTOMERIC BEARING PAD	4	EA
JOINT SEAL (MR 1/2")	39	LF
JOINT SEAL (MR 1")	39	LF
BAR REINFORCING STEEL (BRIDGE)	516	LB
TREAT BRIDGE DECK	23,136	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	257	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

① ALEMANY BLVD OC
BR. No. 34-0021, Rte 001, PM R0.11
NO SCALE

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

① REVISED PER ADDENDUM No. 1 DATED FEBRUARY 08, 2013

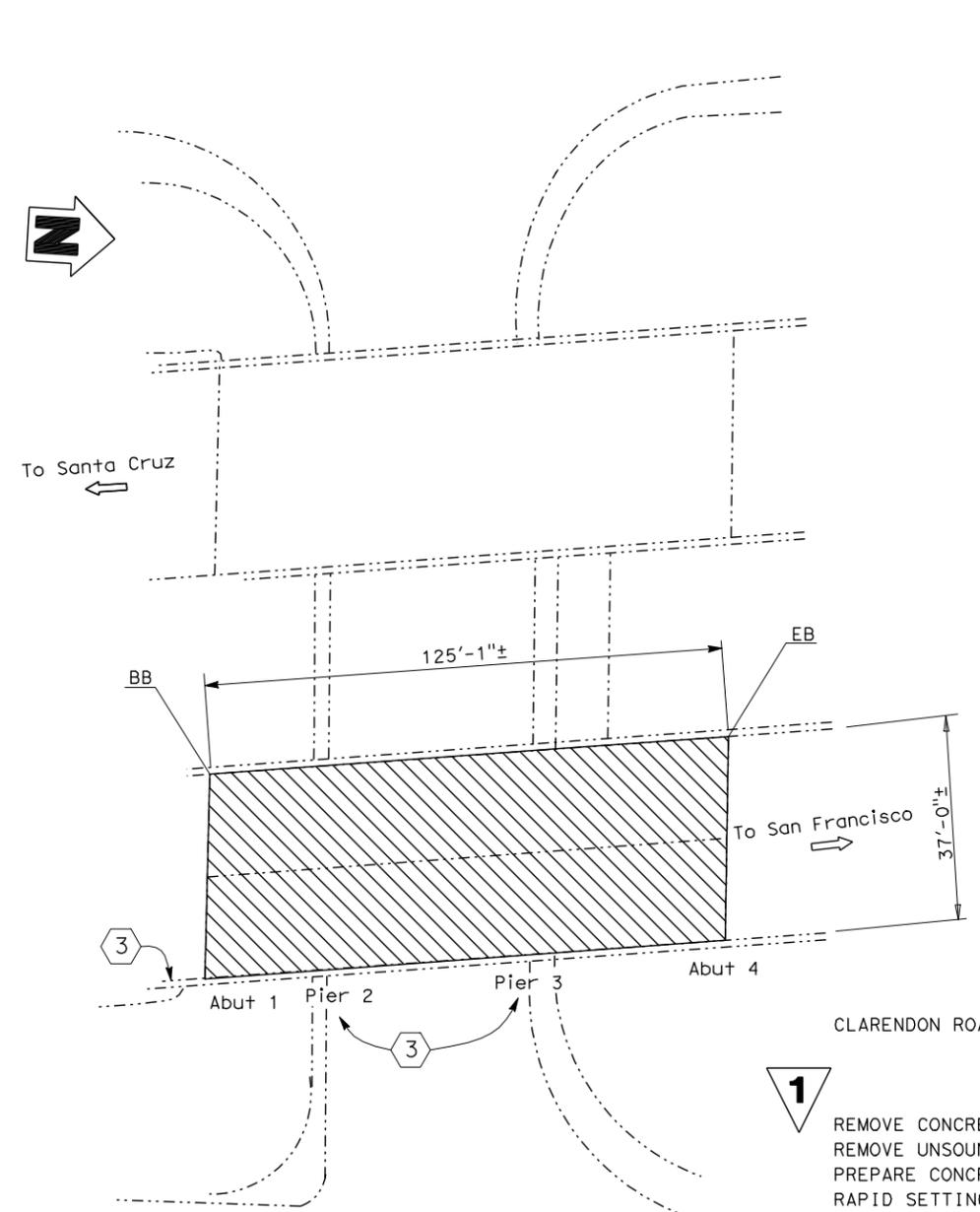
 DESIGN ENGINEER 7-16-12	DESIGN	BY H. Su	CHECKED M. Bahrami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. 34-0021	REPLACE JOINT SEALS, TREAT BRIDGE DECKS, BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR ALEMANY BOULEVARD OVERCROSSING GENERAL PLAN 1
	DETAILS	BY B. Ballesteros	CHECKED H. Su	LAYOUT	BY B. Ballesteros		CHECKED H. Su	POST MILE R0.11	
	QUANTITIES	BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED			

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
 UNIT: 0976 PROJECT NUMBER & PHASE: 0400021124 CONTRACT NO.: 04-2E7604
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 01-11-12 02-29-12
 SHEET 1 OF 12
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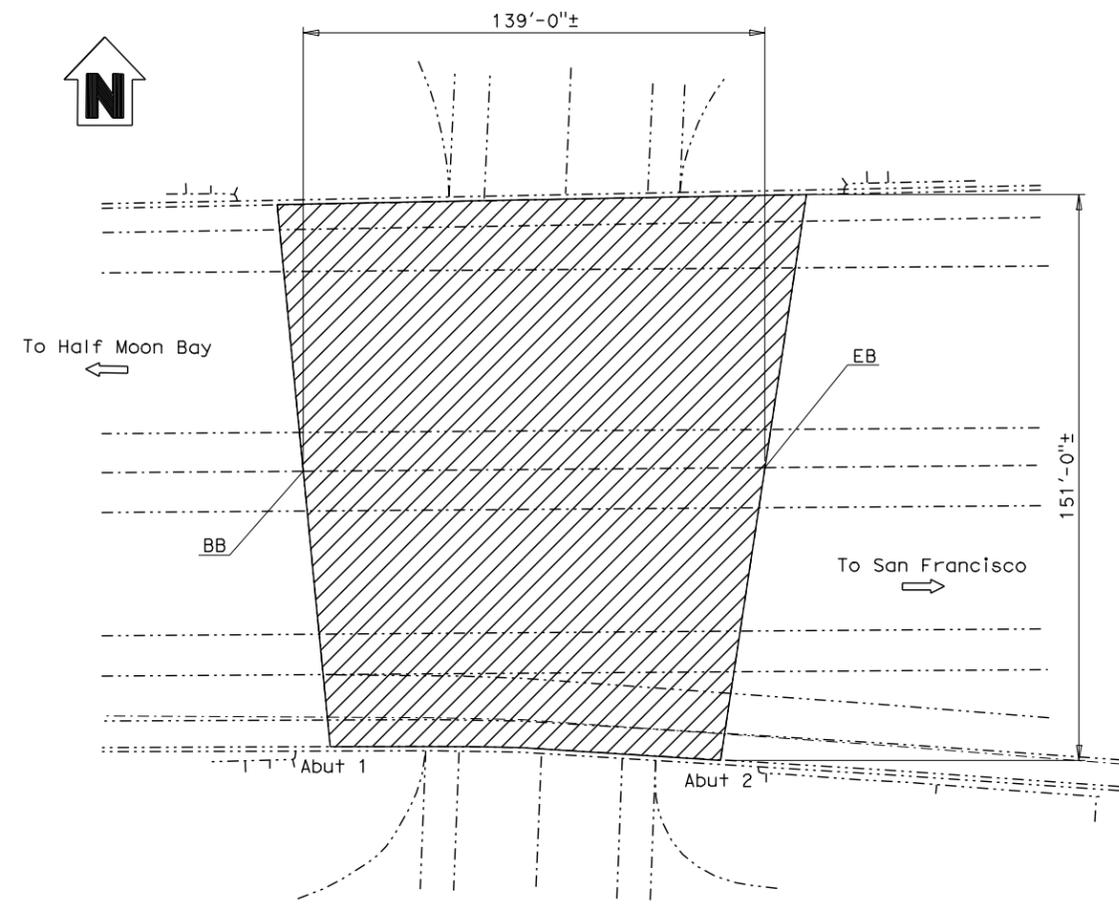
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	1, 280	Var	14	24

HONGYUAN SU 07-16-12
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② CLARENDON ROAD UC
 BR. No. 35-0021R, Rte 001, PM R43.74
 NO SCALE



③ SAINT FRANCIS BLVD UC
 BR. No. 35-0236, Rte 001, PM R47.03
 NO SCALE

CLARENDON ROAD UC BRIDGE NO. 35-0021R

QUANTITIES

REMOVE CONCRETE DECK SURFACE	4,625	SQFT
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,625	SQFT
RAPID SETTING CONCRETE PATCH	12	CF
FURNISH POLYESTER CONCRETE OVERLAY	347	CF
PLACE POLYESTER CONCRETE OVERLAY	4,625	SQFT
PAIN BRIDGE IDENTIFICATION	LUMP	SUM
PUBLIC SAFETY PLAN	LUMP	SUM

SAINT FRANCIS BLVD UC BRIDGE NO. 35-0236

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	20,989	SQFT
TREAT BRIDGE DECK	20,989	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	233	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

- LEGEND:
- Indicates existing structure
 - ⇒ Indicates direction of traffic
 - ▨ Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 - ▩ Indicates limits of remove 3/4" concrete deck surface, prepare bridge deck and place 3/4" polyester concrete overlay. See "JOINT SEAL TABLE AND DECK REPAIR DETAILS" sheet for other details.
 - ③ Paint Bridge ID on right rail at BB, on Pier walls at Bent 2 and Bent 3:
CLARENDON ROAD UC
BR NO 35-0021R PM R43.74
1965
 - ⊖ Indicates bridge location. see "Title" sheet.

NOTE:
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1 REVISED PER ADDENDUM No. 1 DATED FEBRUARY 08, 2013

REPLACE JOINT SEALS, TREAT BRIDGE DECKS,
 BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR
 CLARENDON RD (R) UC & SAINT FRANCIS BLVD UC
GENERAL PLAN 2

DESIGN ENGINEER <i>Kenneth R Brown</i> 7-16-12	DESIGN	BY H. Su	CHECKED M. Bahrami	LOAD FACTOR	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	CLARENDON RD (R) UC & SAINT FRANCIS BLVD UC GENERAL PLAN 2	
	DETAILS	BY B. Ballesteros	CHECKED H. Su	LAYOUT	BY B. Ballesteros		CHECKED H. Su	STRUCTURE MAINTENANCE AND INVESTIGATIONS		Var
	QUANTITIES	BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED		POST MILE		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3										
UNIT: 0976 PROJECT NUMBER & PHASE: 0400021124 CONTRACT NO.: 04-2E7604							DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 01-11-12 02-29-12	SHEET 2 OF 12

USERNAME => s1114592 DATE PLOTTED => 08-FEB-2013 TIME PLOTTED => 09:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	1, 280	Var	15	24

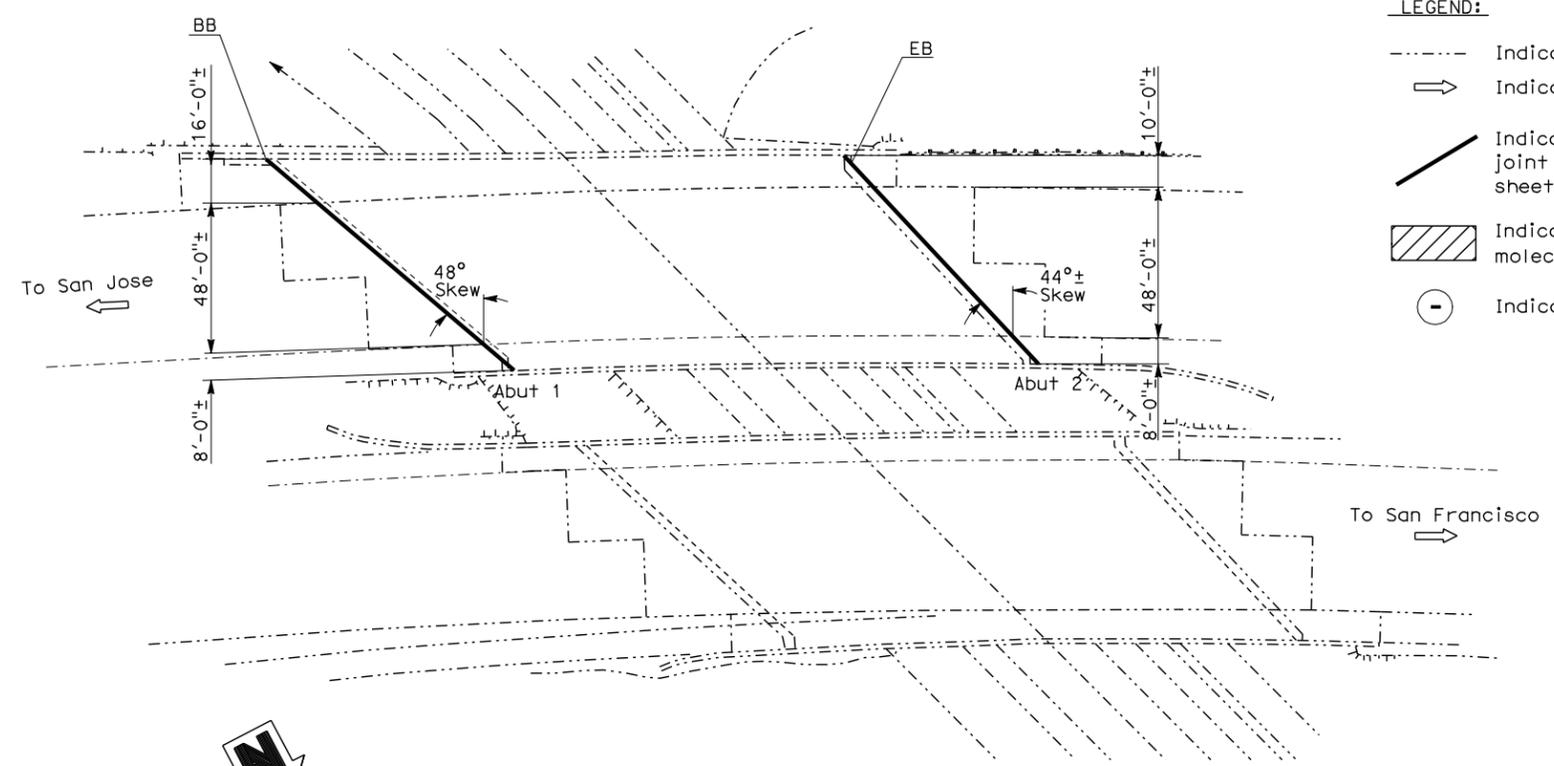
Hongyuan Su 07-16-12
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10-22-12
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HONGYUAN SU
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 - ▨ Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 - ⊖ Indicates bridge location. see "Title" sheet.



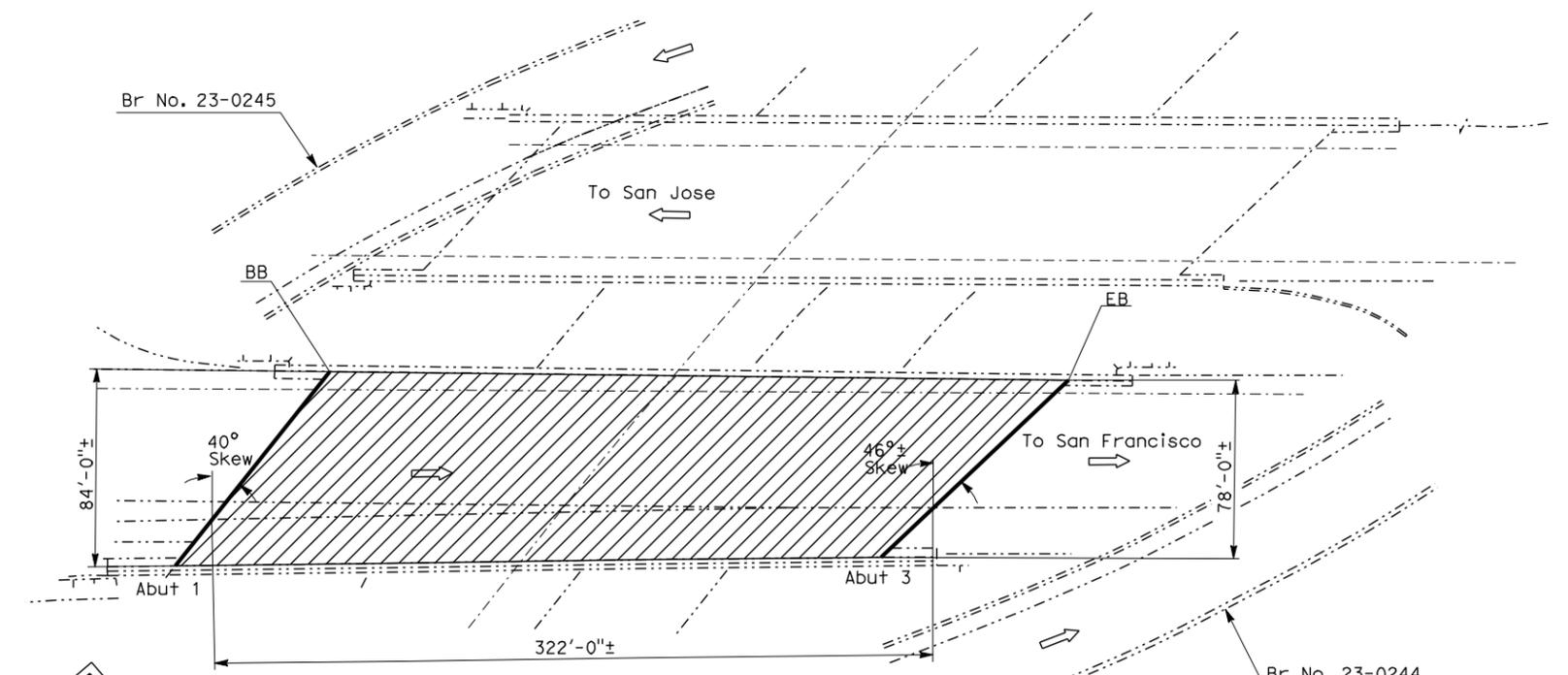
④ **CAÑADA RD UC**
 BR. No. 35-0231L, Rte 280, PM R4.99
 NO SCALE

CANADA RD UC BRIDGE NO. 35-0231L

QUANTITIES		
1	CLEAN EXPANSION JOINT JOINT SEAL (MR 1")	200 LF
		200 LF

ROUTE 280/92 SEPARATION BRIDGE NO. 35-0243R

QUANTITIES		
1	PREPARE CONCRETE BRIDGE DECK SURFACE	26,082 SQFT
	CLEAN EXPANSION JOINT	222 LF
	BONDED JOINT SEAL (MR 1 1/2)	222 LF
	TREAT BRIDGE DECK	26,082 SQFT
	FURNISH BRIDGE DECK TREATMENT MATERIAL	290 GAL



⑤ **ROUTE 280/92 SEPARATION**
 BR. No. 35-0243R, Rte 280, PM 10.81
 NO SCALE

NOTE:
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REPLACE JOINT SEALS, TREAT BRIDGE DECKS, BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR

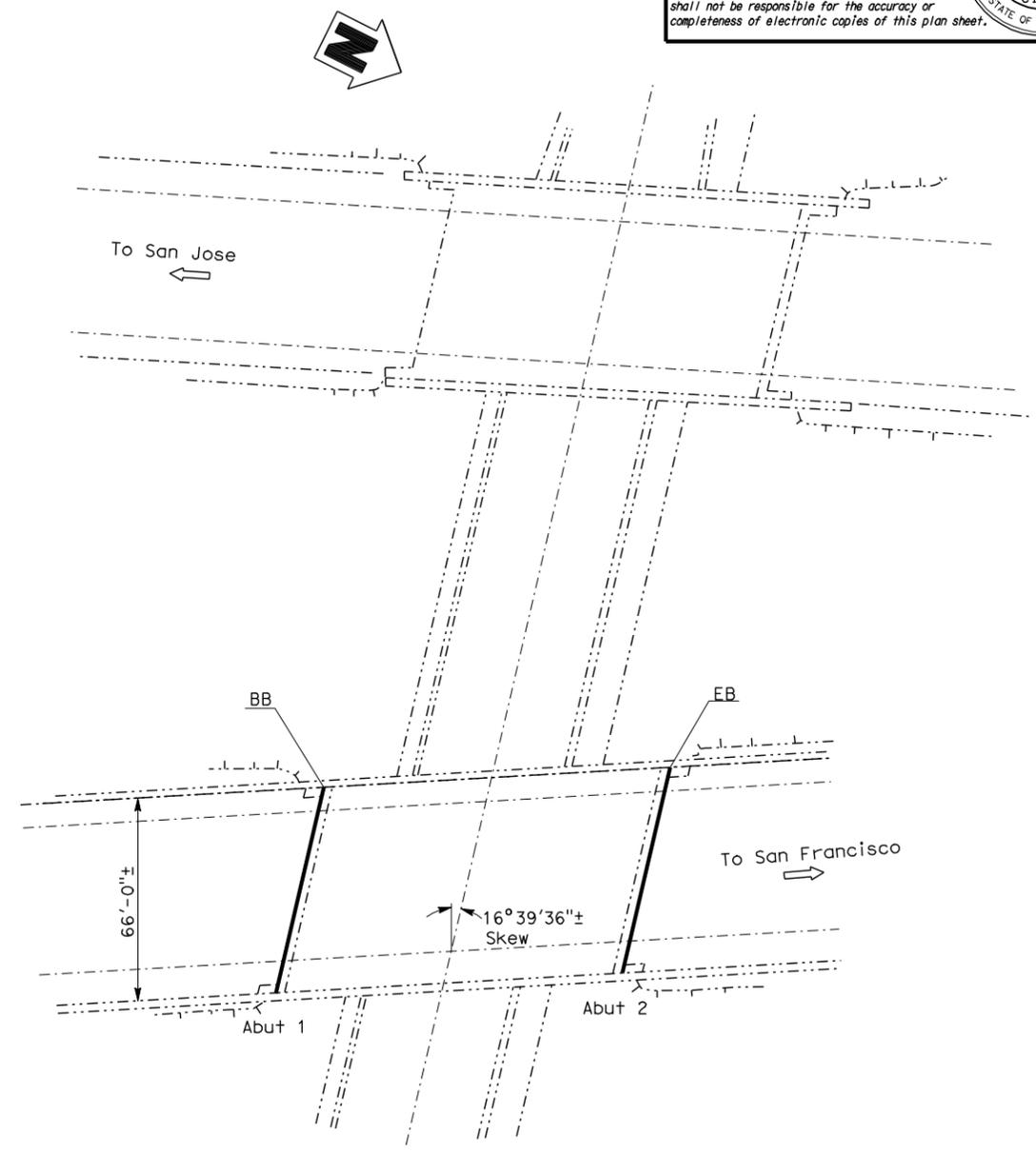
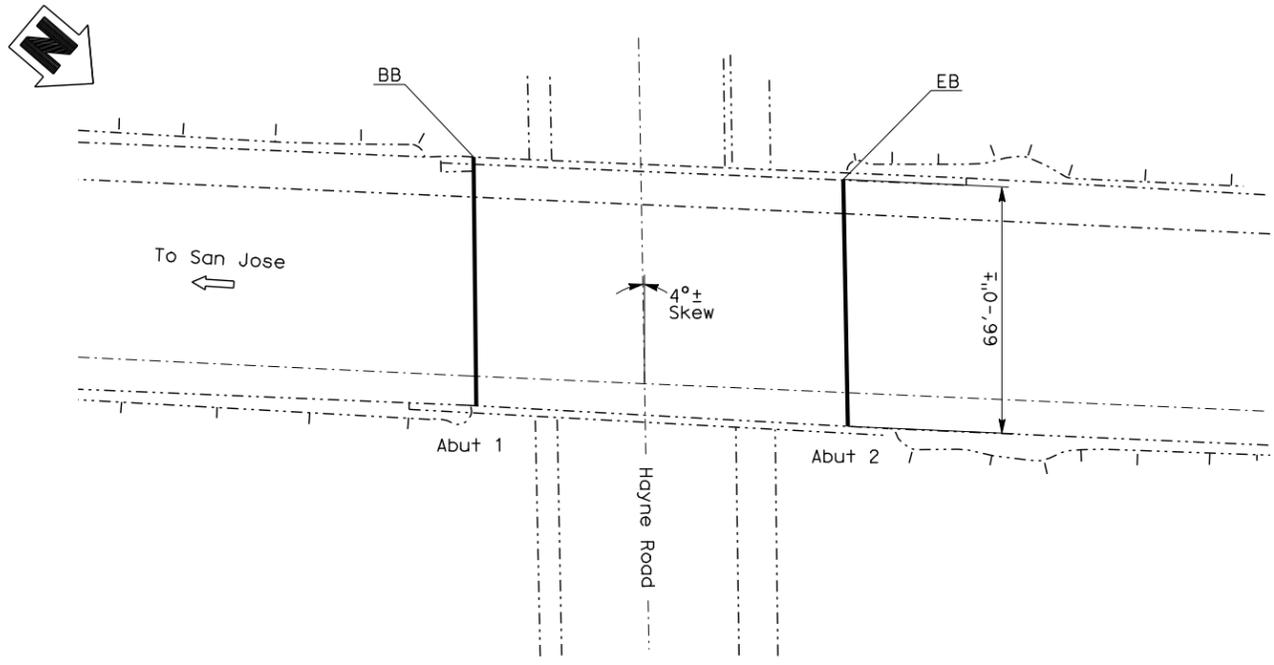
<i>Kenneth R. Brown</i> DESIGN ENGINEER 7-16-12	DESIGN BY H. Su	CHECKED M. Bahrami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. Var	CAÑADA RD UC & RTE 280/92 SEPARATION GENERAL PLAN 3
	DETAILS BY B. Ballesteros	CHECKED H. Su	LAYOUT BY B. Ballesteros	CHECKED H. Su		PROJECT NUMBER & PHASE: 0400021124	POST MILE Var	
	QUANTITIES BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS BY	PLANS AND SPECS COMPARED	UNIT: 0976	CONTRACT NO.: 04-2E7604	REVISION DATES	SHEET 3 OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	1, 280	Var	16	24

HONGYUAN SU 07-16-12
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 - ⊖ Indicates bridge location. see "Title" sheet.



⑥ **HAYNE ROAD UC**
 BR. No. 35-0210L, Rte 280, PM R14.22
 NO SCALE

HAYNE ROAD UC BRIDGE NO. 35-0210L

QUANTITIES

1 CLEAN EXPANSION JOINT 132 LF
 JOINT SEAL (MR 1/2") 132 LF

TROUSDALE DRIVE UC BRIDGE NO. 35-0215R

QUANTITIES

1 CLEAN EXPANSION JOINT 138 LF
 JOINT SEAL (MR 1/2") 138 LF

⑦ **TROUSDALE DRIVE UC**
 BR. No. 35-0215R, Rte 280, PM R17.16
 NO SCALE

NOTE:
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REPLACE JOINT SEALS, TREAT BRIDGE DECKS, BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR

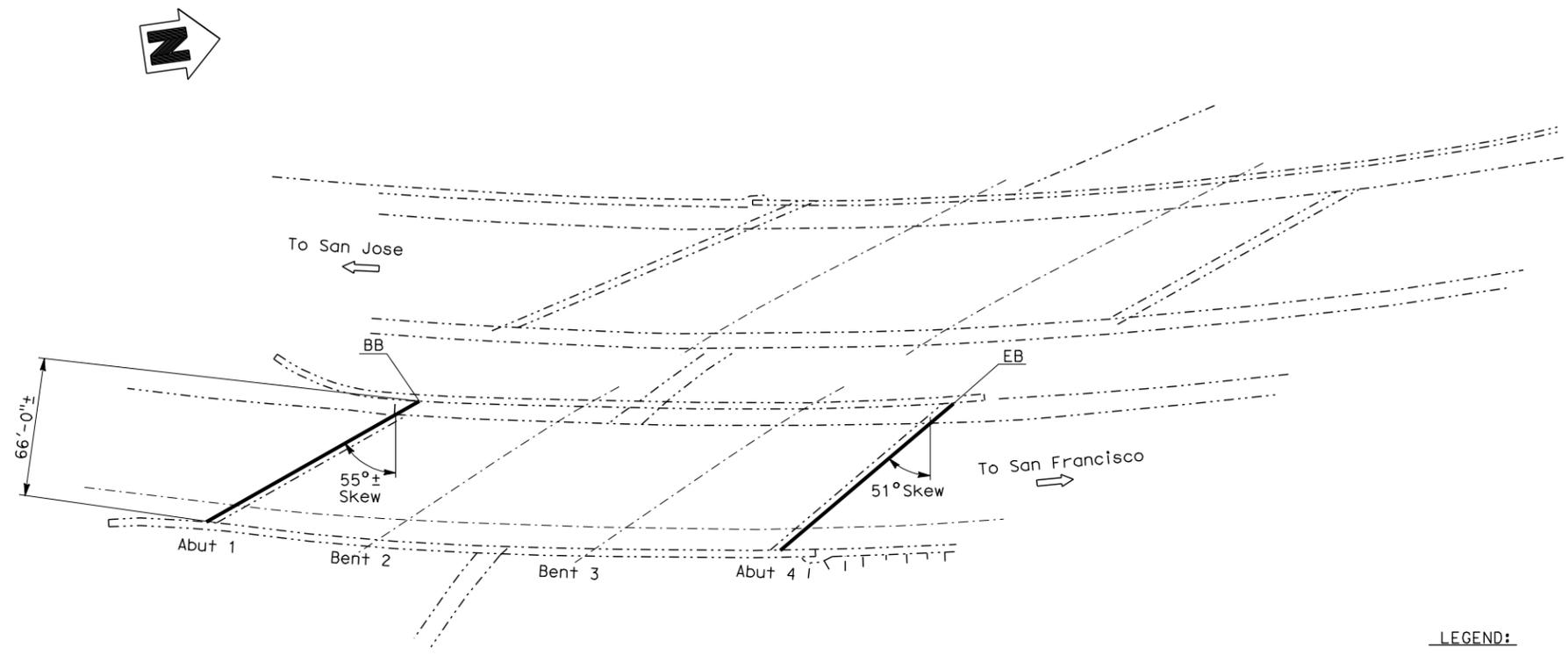
 DESIGN ENGINEER 7-16-12	DESIGN	BY H. Su	CHECKED M. Bahrami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	HAYNE RD UC & TROUSDALE DR UC GENERAL PLAN 4		
	DETAILS	BY B. Ballesteros	CHECKED H. Su	LAYOUT	BY B. Ballesteros		STRUCTURE MAINTENANCE AND INVESTIGATIONS	Var			
	QUANTITIES	BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED	POST MILE		Var	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 0976 PROJECT NUMBER & PHASE: 0400021124	CONTRACT NO.: 04-2E7604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 01-11-12 02-29-12	SHEET 4 OF 12

TIME PLOTTED => 09:26
 DATE PLOTTED => 08-FEB-2013
 USERNAME => s1114592

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	1, 280	Var	17	24

HONGYUAN SU 07-16-12
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 10-22-12
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REGISTERED PROFESSIONAL ENGINEER
 HONGYUAN SU
 No. C58260
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA



- LEGEND:**
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 - ⇒ Indicates direction of traffic
 - /— Indicates limits of clean expansion joint and replace joint seal. See "JOINT SEAL TABLE AND DECK REPAIR DETAILS" sheet.
 - ⊖ Indicates bridge location. see "Title" sheet.

⑧ JUNIPERO BLVD OFF-RAMP UC
 BR. No. 35-0196R, Rte 280, PM R20.04
 NO SCALE

JUNIPERO BLVD OFF-RAMP UC BRIDGE NO. 35-0196R

1	QUANTITIES	
	CLEAN EXPANSION JOINT	229 LF
	JOINT SEAL (MR 1")	229 LF

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1 REVISED PER ADDENDUM No. 1 DATED FEBRUARY 08, 2013

**REPLACE JOINT SEALS, TREAT BRIDGE DECKS,
 BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR**
JUNIPERO BOULEVARD OFF-RAMP UNDERCROSSING
GENERAL PLAN 5

 DESIGN ENGINEER 7-16-12	DESIGN	BY H. Su	CHECKED M. Bahrami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. 35-0196R	JUNIPERO BOULEVARD OFF-RAMP UNDERCROSSING GENERAL PLAN 5
	DETAILS	BY B. Ballesteros	CHECKED H. Su	LAYOUT	BY B. Ballesteros		CHECKED H. Su	POST MILE R20.04	
QUANTITIES	BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED	UNIT: 0976 PROJECT NUMBER & PHASE: 0400021124		CONTRACT NO.: 04-2E7604	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	REVISION DATES		SHEET 5 OF 12

USERNAME => s1114592 DATE PLOTTED => 08-FEB-2013 TIME PLOTTED => 09:26

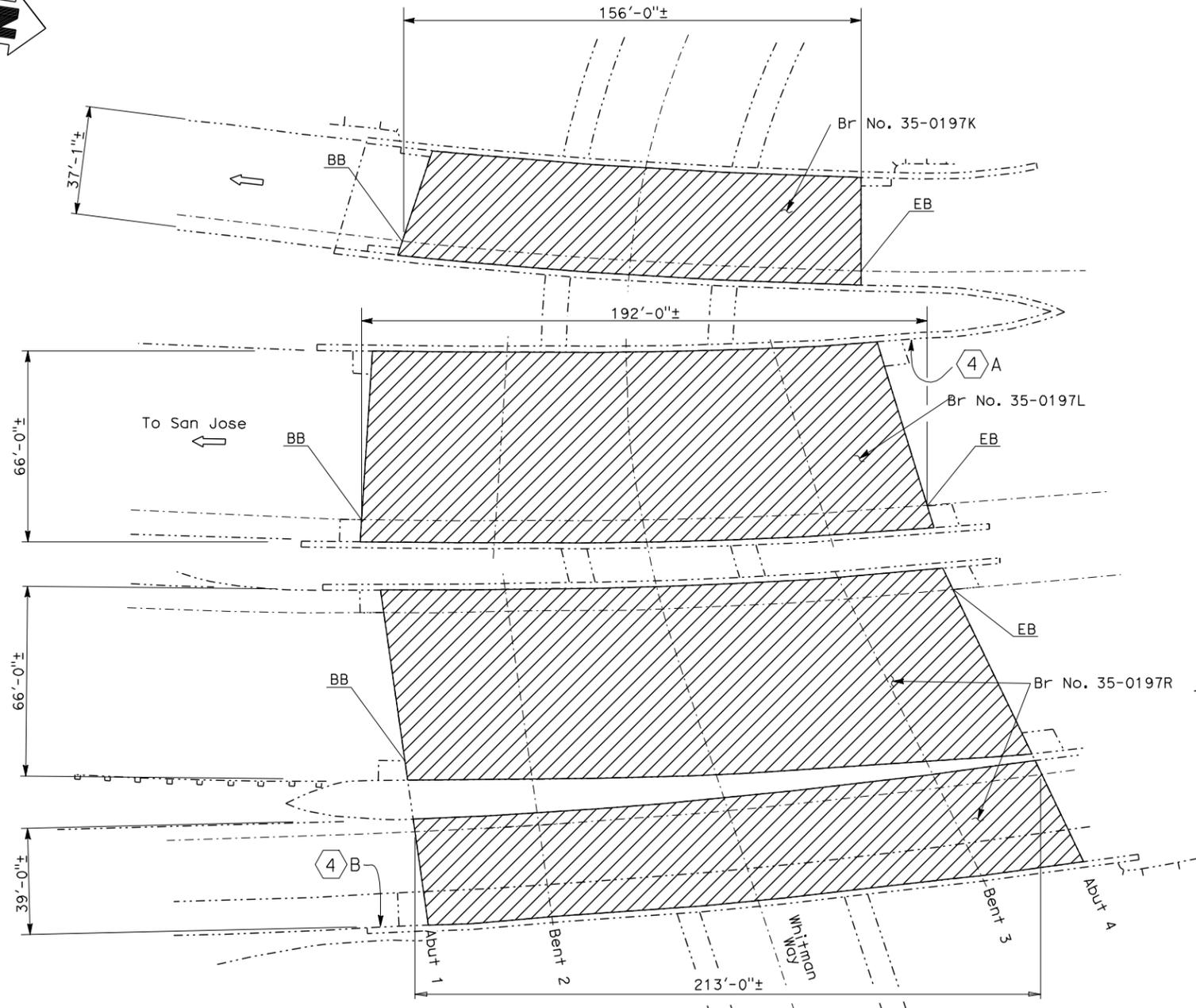
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	1, 280	Var	18	24

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LEGEND:

- Indicates existing structure
- ➔ Indicates direction of traffic
- ▨ Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
- ④ A Paint bridge ID:
WHITMAN WAY UC
BR NO 35-0197L PM R20.22
1967
- ④ B Paint bridge ID:
WHITMAN WAY UC
BR NO 35-0197R PM R20.22
1967
- ⊖ Indicates bridge location, see "Title" sheet.

	WHITMAN WAY OFF-RAMP UC	BRIDGE NO. 35-0197K
	QUANTITIES	
①	PREPARE CONCRETE BRIDGE DECK SURFACE	5,788 SQFT
	TREAT BRIDGE DECK	5,788 SQFT
	FURNISH BRIDGE DECK TREATMENT MATERIAL	64 GAL
	PUBLIC SAFETY PLAN	LUMP SUM
	WHITMAN WAY OFF-RAMP UC	BRIDGE NO. 35-0197L/R
	QUANTITIES	
①	PREPARE CONCRETE BRIDGE DECK SURFACE	34,611 SQFT
	PAINT BRIDGE IDENTIFICATION	LUMP SUM
	TREAT BRIDGE DECK	34,611 SQFT
	FURNISH BRIDGE DECK TREATMENT MATERIAL	385 GAL
	PUBLIC SAFETY PLAN	LUMP SUM

- ⑨ ⑩ WHITMAN WAY UC
- ⑪ WHITMAN WAY OFF-RAMP UC
BR. No. 35-0197L/R/K, R+e 280, PM R20.22
No Scale

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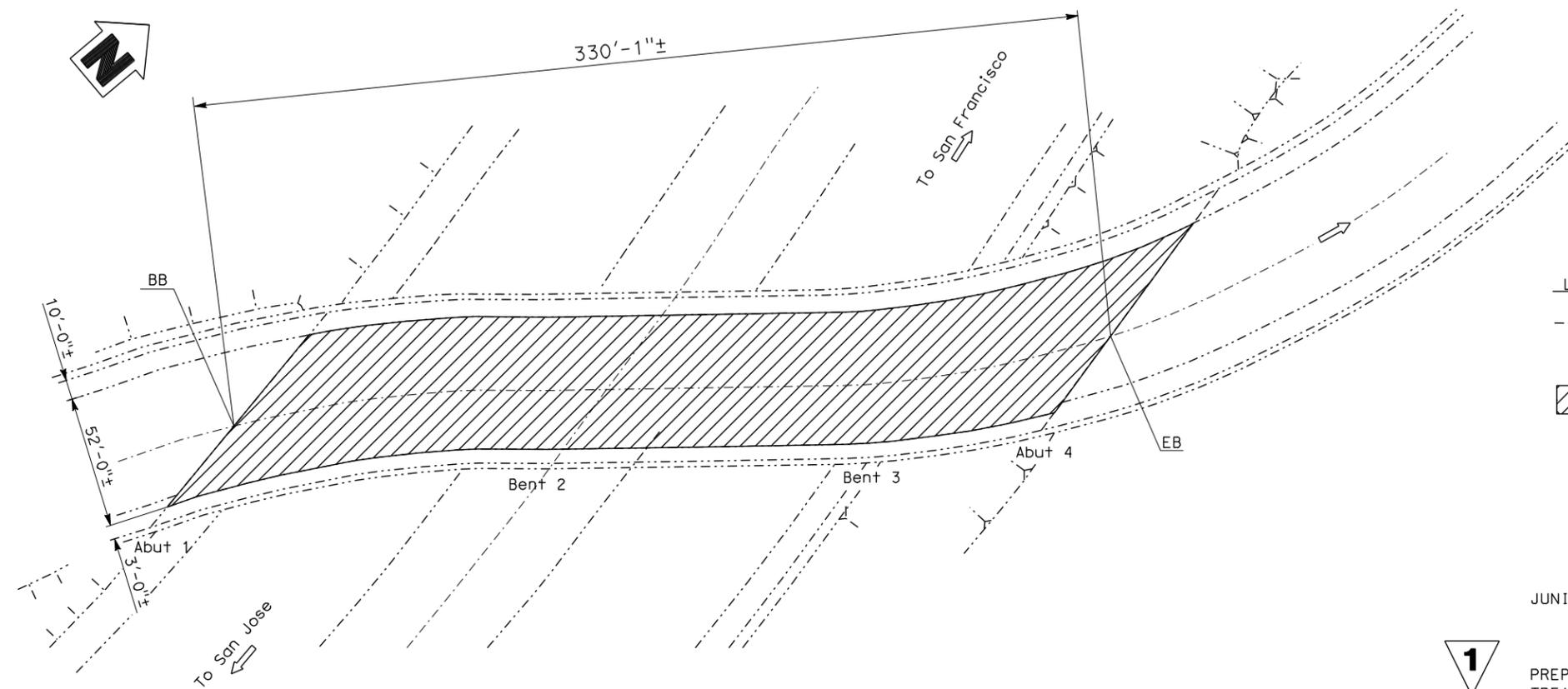
1 REVISED PER ADDENDUM No. 1 DATED FEBRUARY 08, 2013

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR
WHITMAN WAY UC and WHITMAN WAY OFF-RAMP UC
GENERAL PLAN 6

 DESIGN ENGINEER 7-16-12	DESIGN	BY H. Su	CHECKED M. Bahrami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	DETAILS	BY B. Ballesteros	CHECKED H. Su	LAYOUT	BY B. Ballesteros		STRUCTURE MAINTENANCE AND INVESTIGATIONS	35-0197L/R/K
	QUANTITIES	BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED	POST MILE R20.22

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 - ⊖ Indicates bridge location, see "Title" sheet.

JUNIPERO SERRA BLVD OC BRIDGE NO. 35-0184



QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	17,165	SQFT
TREAT BRIDGE DECK	17,165	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	191	GAL

⑫ JUNIPERO SERRA BLVD OC
 BR. No. 35-0184, Rte 280, PM R26.50
 NO SCALE

NOTE:
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REPLACE JOINT SEALS, TREAT BRIDGE DECKS, BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR
JUNIPERO SERRA BOULEVARD OVERCROSSING
GENERAL PLAN 7

 DESIGN ENGINEER 7-16-12	DESIGN	BY H. Su	CHECKED M. Bahrani	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. 35-0184
	DETAILS	BY B. Ballesteros	CHECKED H. Su	LAYOUT	BY B. Ballesteros		CHECKED H. Su	POST MILE R26.50
	QUANTITIES	BY H. Su	CHECKED M. Bahrani	SPECIFICATIONS	BY		CHECKED PLANS AND SPECS COMPARED	

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TEMPORARY DECKING DESIGN LOAD		
MOMENT DEMAND / FOOT (kips-ft/ft)	BOLT SHEAR/FOOT (kips/ft)	BOLT TENSION (kips)
6.0	4.5	5.5

Note :

Plate thickness shall be $\geq 7/8"$.
Maximum spacing of anchorage shall not exceed 12".
Anchorage washer shall be neoprene or similar.
Plate deflection shall not be greater than S/300 (S = Span).

GENERAL NOTES:

Bridge Design Specifications
(96 ASHTO with revisions by Caltrans)

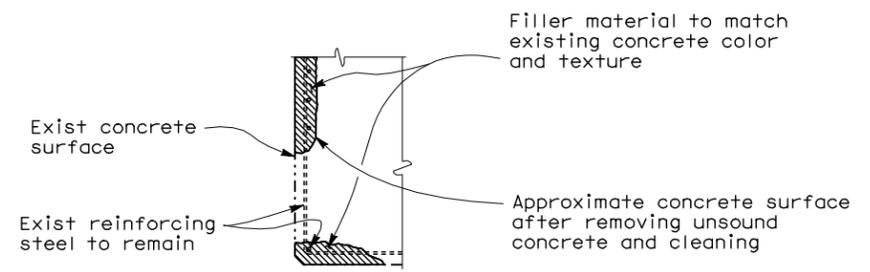
DEAD LOAD:
 γ concrete = 150 PCF

LIVE LOAD:
HL 93 Load

REINFORCED CONCRETE:
 f_y = 60 ksi
 f'_c = 3.6 ksi at 28 days

TEMPORARY SUPPORT AT EACH HINGE		
DL (Kips)	DL + LL + 1 (Kips)	LATERAL SUPPORT (Kips)
190	360	20

- NOTE:
- Temp. Support shall be fully engaged with the supported member to the design DL before bridge removal.
 - Temp. Support shall be monitored for differential vertical movement between the supported member and the adjacent unsupported member at all time.
 - The max. temporary differential vertical movement allowed is 1/2" inch.



REPAIR SPALLED SURFACE AREA DETAIL
NO SCALE

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1 REVISED PER ADDENDUM No. 1 DATED FEBRUARY 08, 2013

REPLACE JOINT SEALS, TREAT BRIDGE DECKS, BRIDGE DECK OVERLAY and BRIDGE HINGE REPAIR

ALEMANY BOULEVARD OVERCROSSING

HINGE DETAIL NO. 4

<i>Kenneth R. Brown</i> DESIGN ENGINEER 7-16-12	DESIGN BY H. Su	CHECKED M. Bahrami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. 34-0021	REVISION DATES 01-17-12 02-29-12 07-13-12	SHEET OF 11 12
	DETAILS BY B. Ballesteros	CHECKED H. Su	LAYOUT BY B. Ballesteros	CHECKED H. Su		PLANS AND SPECS COMPARED	POST MILE RO.11		
	QUANTITIES BY H. Su	CHECKED M. Bahrami	SPECIFICATIONS						

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0976 PROJECT NUMBER & PHASE: 0400021124 CONTRACT NO.: 04-2E7604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => 042e76011.odd

DATE PLOTTED => 08-FEB-2013
USER NAME => s1114592