

INDEX OF PLANS

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STRUCTURE PLANS

10-24 ROUTE 5,99,108 AND 140 BRIDGES

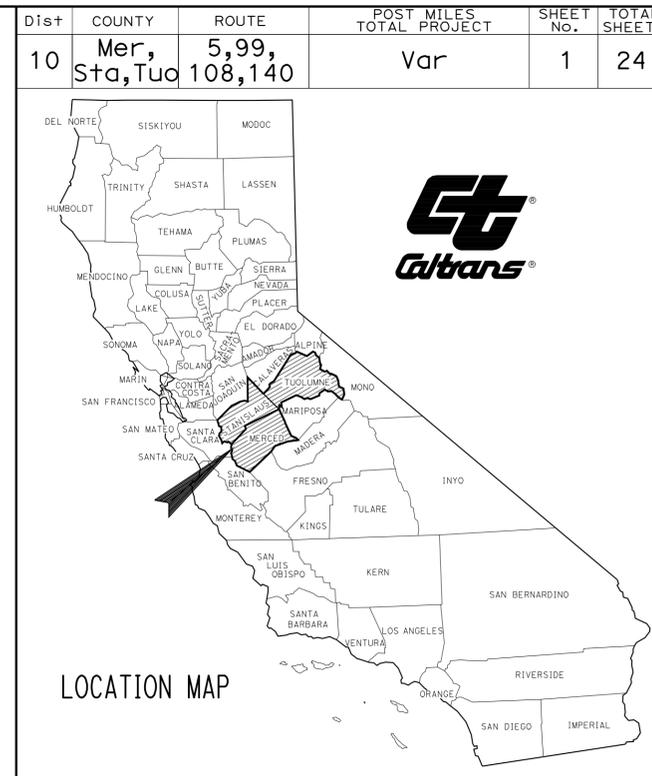
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

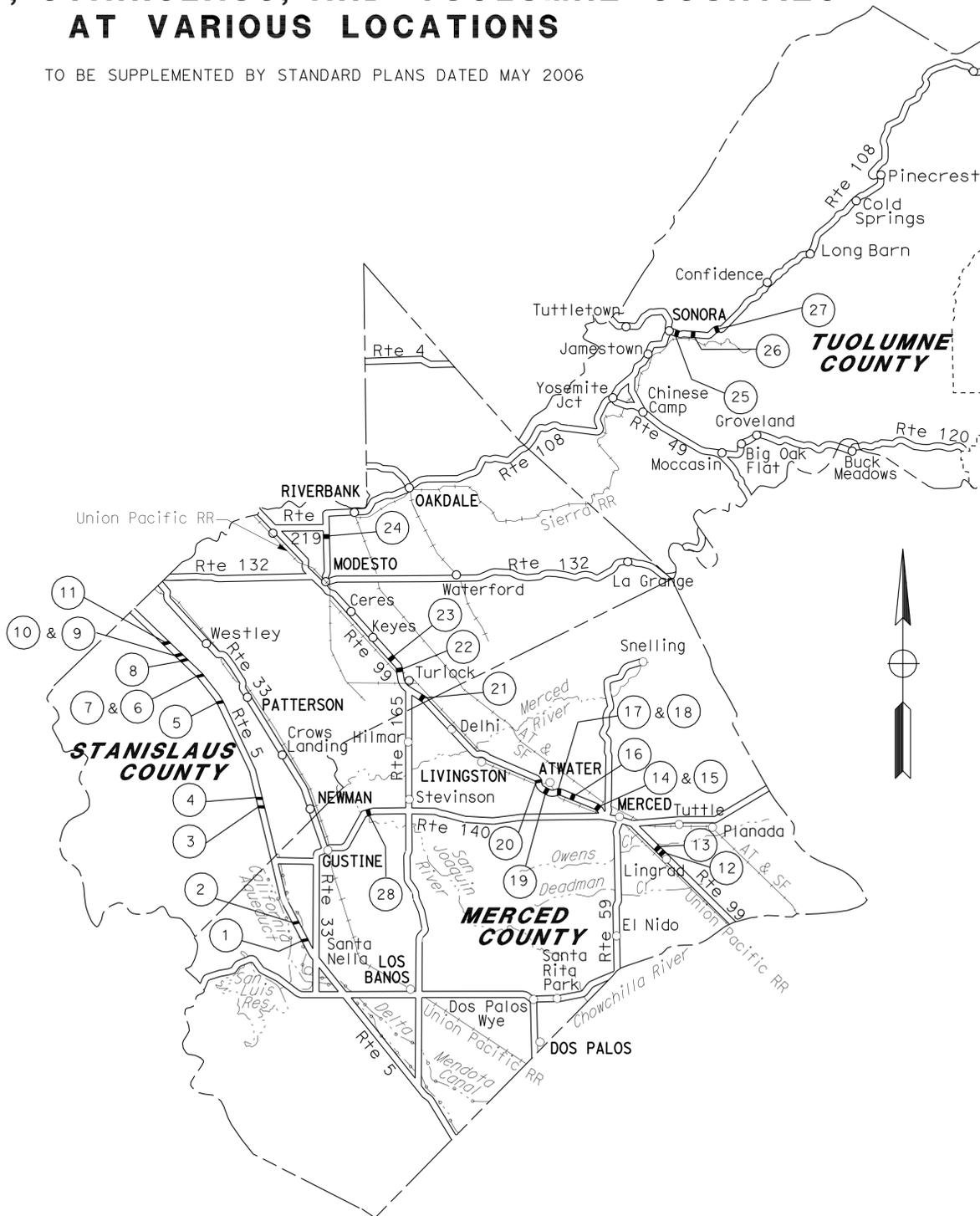
IN MERCED, STANISLAUS, AND TUOLUMNE COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION

Loc	Co	Rte	PM	STRUCTURE NAME	BRIDGE No.
1	Mer	5	22.57	MCCABE ROAD OVERCROSSING	39-0170
2	Mer	5	23.84	WHITWORTH ROAD OVERCROSSING	39-0171
3	Sta	5	5.02	ORESTIMBA ROAD UNDERCROSSING	38-0105R
4	Sta	5	5.73	ORESTIMBA CREEK	38-0107R
5	Sta	5	15.86	DEL PUERTO CANYON ROAD UNDERCROSSING	38-0119R
6	Sta	5	18.31	DEL PUERTO CREEK ROAD UNDERCROSSING	38-0122R
7	Sta	5	18.31	DEL PUERTO CREEK ROAD UNDERCROSSING	38-0122L
8	Sta	5	22.99	INGRAM CREEK ROAD UNDERCROSSING	38-0125L
9	Sta	5	23.07	INGRAM CREEK	38-0126R
10	Sta	5	23.07	INGRAM CREEK	38-0126L
11	Sta	5	25.53	HAMILTON ROAD UNDERCROSSING	38-0127R
12	Mer	99	9.35	MARIPOSA CREEK	39-0081
13	Mer	99	9.86	DUCK SLOUGH OVERFLOW	39-0005
14	Mer	99	17.30	BLACK RASCAL CANAL	39-0010R
15	Mer	99	17.30	BLACK RASCAL CANAL	39-0010L
16	Mer	99	20.52	BUHACH ROAD OVERCROSSING	39-0073
17	Mer	99	21.61	EAST ATWATER OVERHEAD	39-0126R
18	Mer	99	21.61	EAST ATWATER OVERHEAD	39-0126L
19	Mer	99	22.76	APPLEGATE ROAD OVERCROSSING	39-0127
20	Mer	99	23.46	WEST ATWATER OVERHEAD	39-0128R
21	Sta	99	R1.63	LANDER AVENUE SEPARATION	38-0053L
22	Sta	99	R6.41	NORTH TURLOCK OVERHEAD	38-0144L
23	Sta	99	R6.75	TAYLOR ROAD UNDERCROSSING	38-0145L
24	Sta	108	26.74	HETCH HETCHY CROSSING	38-0157M
25	Tuo	108	R2.02	SANGUINETTI ROAD OVERHEAD/OFF-RAMP	32-0062S
26	Tuo	108	R2.78	SULLIVAN CREEK	32-0067
27	Tuo	108	R3.42	HESS AVENUE UNDERCROSSING	32-0068
28	Mer	140	32.95	BEAR CREEK	39-0095



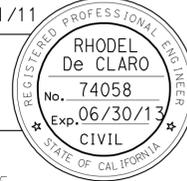
PROJECT MANAGER
ALVIN MANGINDIN

DESIGN ENGINEER
ALVIN MANGINDIN

Rhodel De Claro 12/21/11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 13, 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

CONTRACT No.	10-OW0904
PROJECT ID	1000020424

DATE PLOTTED => 15-FEB-2012 TIME PLOTTED => 09:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	2	24

Rhodel De Claro 12/21/11
 REGISTERED CIVIL ENGINEER DATE

2-13-12
 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION No.	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
①	Mer	5	22.57	MCCABE ROAD OVERCROSSING	39-0170	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
②	Mer	5	23.84	WHITWORTH ROAD OVERCROSSING	39-0171	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
③	Sta	5	5.02	ORESTIMBA ROAD UNDERCROSSING	38-0105R	W20-1	48" x 48"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
⑧	Sta	5	22.99	INGRAM CREEK ROAD UNDERCROSSING	38-0125L	W20-1	48" x 48"	1 - 4" x 6"	2	ROAD WORK AHEAD
⑨	Sta	5	23.07	INGRAM CREEK	38-0126R	W20-1	48" x 48"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
⑩	Sta	5	23.07	INGRAM CREEK	38-0126L	G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
⑫	Mer	99	9.35	MARIPOSA CREEK	39-0081	W20-1	48" x 48"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
⑬	Mer	99	9.86	DUCK SLOUGH OVERFLOW	39-0005	W20-1	48" x 48"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
⑭	Mer	99	17.30	BLACK RASCAL CANAL	39-0010R	G20-1	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 6.5 MILES
⑮	Mer	99	17.30	BLACK RASCAL CANAL	39-0010L	G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
⑯	Mer	99	20.52	BUHACH ROAD OVERCROSSING	39-0073	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑰	Mer	99	21.61	EAST ATWATER OVERHEAD	39-0126L	G20-1	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 4.5 MILES
⑱	Mer	99	22.76	APPLEGATE ROAD OVERCROSSING	39-0127	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑳	Mer	99	23.46	WEST ATWATER OVERHEAD	39-0128R	G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
㉒	Sta	99	R6.41	NORTH TURLOCK OVERHEAD	38-0144L	W20-1	48" x 48"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	48" x 24"	1 - 4" x 6"	2	END ROAD WORK
㉔	Sta	108	26.74	HETCH HETCHY CROSSING	38-0157M	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
㉕	Tuo	108	R2.02	SANGUINETTI ROAD OVERHEAD/OFF-RAMP	32-0062S	W20-1	36" x 36"	1 - 4" x 6"	1	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
㉖	Tuo	108	R2.78	SULLIVAN CREEK	32-0067	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
㉗	Tuo	108	R3.42	HESS AVENUE UNDERCROSSING	32-0068	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK
㉘	Mer	140	32.95	BEAR CREEK	39-0095	W20-1	36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

RDC
12/21/11

REVISED BY
DATE REVISED

RHODEL De CLARO
JOSE A ALICEA II

CALCULATED/DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
ALVIN MANGINDIN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	3	24

Rhodel De Claro 12/21/11
 REGISTERED CIVIL ENGINEER DATE

2-13-12
 PLANS APPROVAL DATE

RHODEL De CLARO
 No. 74058
 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.

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

COUNTY	ROUTE	PM	Dir	LOCATION	TYPE	DESCRIPTION
Mer	5	22.04	SB	NORTH OF OFF-RAMP TO ROUTE 33	TMS	TRAFFIC MONITORING STATION
Mer	5	22.14	NB	NORTH OF ON-RAMP FROM ROUTE 33	TMS	TRAFFIC MONITORING STATION
Mer	5	22.48	SB	NORTH OF SANTA NELLA	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
Mer	5	22.50	SB	NORTH OF ROUTE 33 SANTA NELLA	CMS	CHANGEABLE MESSAGE SIGN
Mer	5	23.32	SB	SOUTH OF ON-RAMP FROM TRUCK SCALE	TMS	TRAFFIC MONITORING STATION
Mer	5	23.36	SB	NORTH OF OFF-RAMP TO TRUCK SCALE	TMS	TRAFFIC MONITORING STATION
Mer	5	23.42	NB	SOUTH OF OFF-RAMP TO TRUCK SCALE	TMS	TRAFFIC MONITORING STATION
Mer	5	23.60	NB/SB	NORTH OF ROUTE 33, SANTA NELLA TRUCK SCALES	WIM	WEIGN IN MOTION
Mer	5	23.70	NB	NORTH OF ON-RAMP FROM TRUCK SCALE	TMS	TRAFFIC MONITORING STATION
Sta	5	16.20	NB/SB	SPERRY Ave	TMS	TRAFFIC MONITORING STATION
Mer	99	10.00	NB	SOUTH OF MISSION Ave	CMS	CHANGEABLE MESSAGE SIGN
Mer	99	17.18	SB	NORTH OF OFF-RAMP TO 16TH St	TMS	TRAFFIC MONITORING STATION
Mer	99	20.28	SB	SOUTH OF ON-RAMP FROM BUHACH Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	20.51	SB	NORTH OF OFF-RAMP TO BUHACH Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	20.53	NB	SOUTH OF OFF-RAMP TO BUHACH Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	20.55	SB	SOUTH OF ON-RAMP FROM ATWATER Blvd	TMS	TRAFFIC MONITORING STATION
Mer	99	20.71	NB	NORTH OF ON-RAMP FROM BUHACH Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	21.41	NB	SOUTH OF OFF-RAMP TO ATWATER Blvd	TMS	TRAFFIC MONITORING STATION
Mer	99	22.66	SB	SOUTH OF ON-RAMP FROM APPLGATE Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	22.78	NB	SOUTH OF OFF-RAMP TO APPLGATE Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	22.86	SB	NORTH OF OFF-RAMP TO APPLGATE Rd	TMS	TRAFFIC MONITORING STATION
Mer	99	23.85	NB	NORTH OF ON-RAMP FROM ATWATER Blvd	TMS	TRAFFIC MONITORING STATION
Sta	99	R1.41	ALL	STATE ROUTE 165 (LANDER Ave)	SIGNAL	SIGNAL
Sta	99	R1.45	ALL	STATE ROUTE 165 (LANDER Ave)	SIGNAL	SIGNAL
Sta	99	R1.63	NB/SB	SOUTH OF JUNCTION ROUTE 165 (LANDER Ave)	TMS	TRAFFIC MONITORING STATION
Sta	108	26.40	ALL	UNION Ave	SIGNAL	SIGNAL
Sta	108	26.81	ALL	PELANDALE Ave/CLARATINA Ave	SIGNAL	SIGNAL
Sta	108	27.08	ALL	BANGS Ave	SIGNAL	SIGNAL
Tuo	108	R2.18	ALL	MONO WAY WB ON-OFF RAMPS	SIGNAL	SIGNAL
Tuo	108	R2.36	ALL	MONO WAY EB ON-OFF RAMPS	SIGNAL	SIGNAL
Tuo	108	R3.51	ALL	HESS Ave EB ON-OFF RAMPS	SIGNAL	SIGNAL

NOTE: TRAFFIC MANAGEMENT SYSTEM ELEMENT LOCATIONS ARE APPROXIMATE.

**SUMMARY OF QUANTITIES
Q-1**

LAST REVISION | DATE PLOTTED => 15-FEB-2012 00-00-00 | TIME PLOTTED => 08:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5,99, 108,140	Var	4	24

Rhodel DeClaro 12/21/11
REGISTERED CIVIL ENGINEER DATE

2-13-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RHODEL De CLARO
No. 74058
Exp. 6/30/13
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE							REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)				
			YELLOW				WHITE				TYPE D		TYPE G		TYPE H
			DETAIL 6	DETAIL 21	DETAIL 25	DETAIL 32	DETAIL 9	DETAIL 12	DETAIL 27B		DETAIL 6	DETAIL 32	DETAIL 9	DETAIL 12	DETAIL 25
	LF	LF	LF							EA	EA				
①	512	512		512					512						
②	596	596		596					596						
③	83	166			83			83	83	4			2	2	
⑧	101	202			101			101	101	6			3	3	
⑨	99	198			99			99	99	6			3	3	
⑩	99	198			99			99	99	6			3	3	
⑫	154	308			154			154	154	8			4	4	
⑬	322	644			322			322	322	14			7	7	
⑭	94	188			94			94	94	4			2	2	
⑮	94	188			94			94	94	4			2	2	
⑯	722	722		722					722						
⑰	551	1102			551			551	551	56			12	12	
⑱	551	1102			551			551	551	56			12	12	
⑲	398			398						38					
⑳	460	920			460			460	460	46			10	10	
㉒	236	708			236			472	236	15			10	5	
㉔	224	224				224	112		112	11		7	4		
㉕	171	171			171				171	4				4	
㉖	1918	1918		1918					1918						
㉗	292	292		292					292						
㉘	113	226	113						226	3	3				
SUBTOTAL	7790	10,585	113	4438	3015	224	112	3080	7393	281	3	7	4	70	69
TOTAL	7790	10,585	18,375							281	153				

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR
ALVIN MANGINDIN

CALCULATED/DESIGNED BY
CHECKED BY

RHODEL De CLARO
JOSE A ALICEA II

REVISED BY
DATE REVISED

RDC
12/22/11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer, Sta, Tuo	5,99, 108,140	Var	5	24

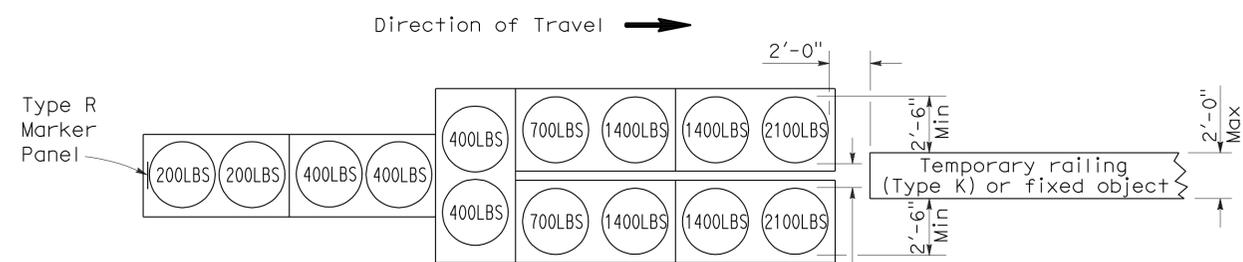
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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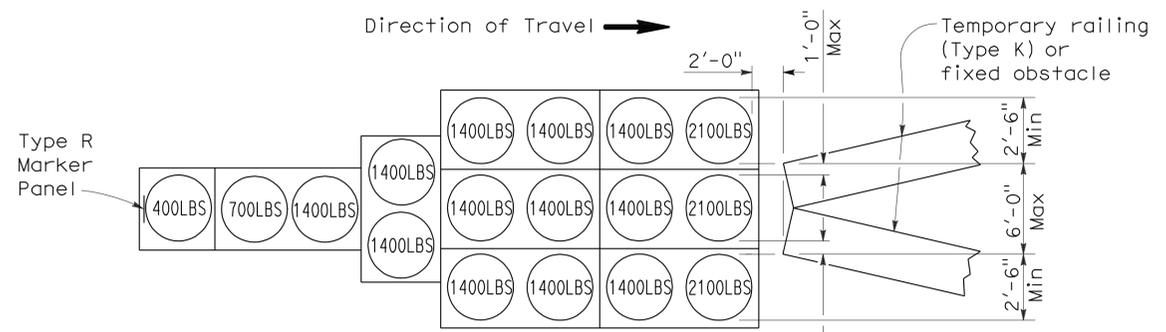
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-13-12



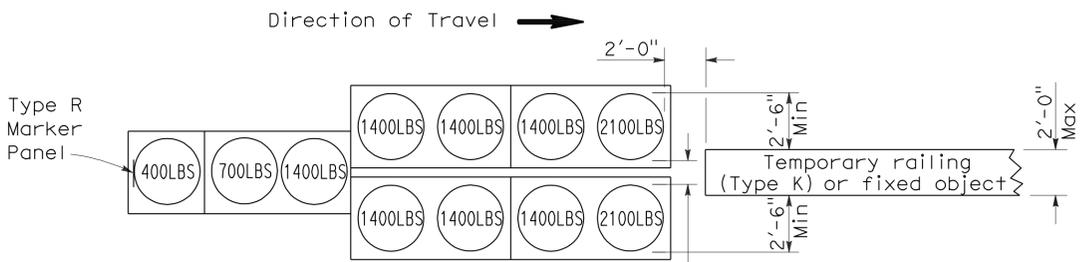
ARRAY 'TU14'

Approach speed 45 mph or more



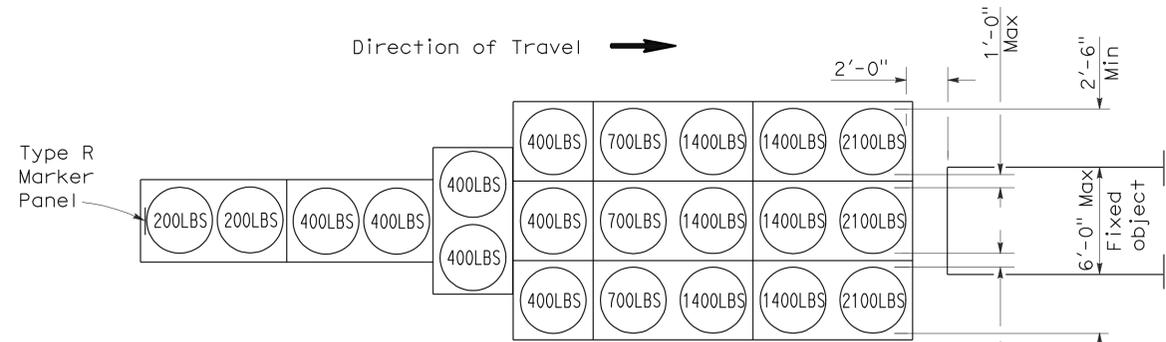
ARRAY 'TU17'

Approach speed less than 45 mph



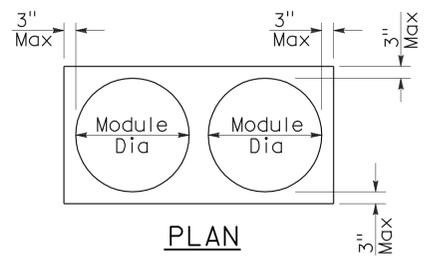
ARRAY 'TU11'

Approach speed less than 45 mph

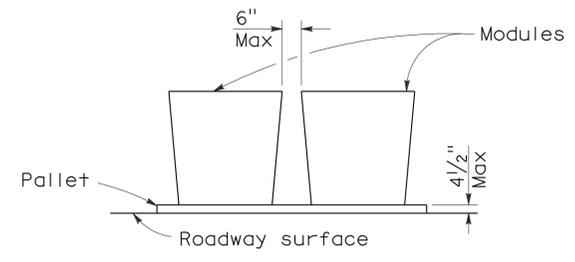


ARRAY 'TU21'

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

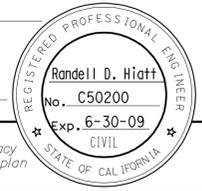
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer, Sta, Tuo	5,99, 108,140	Var	6	24

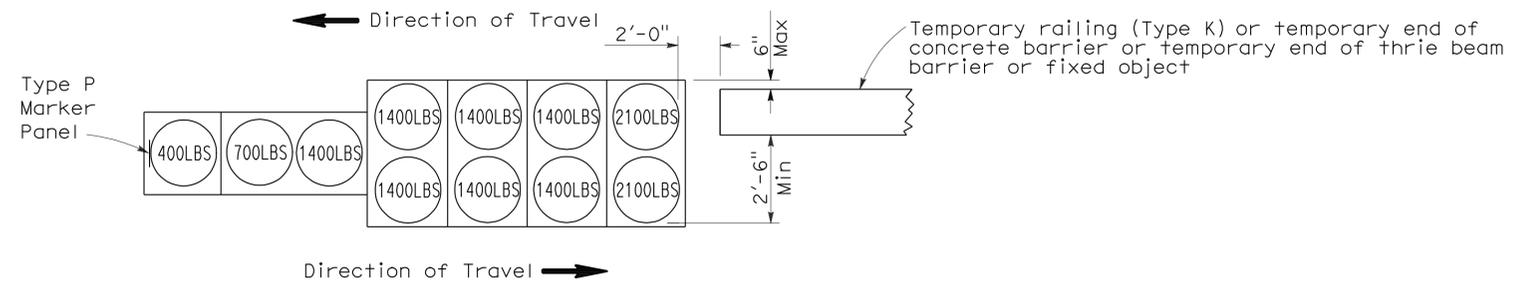
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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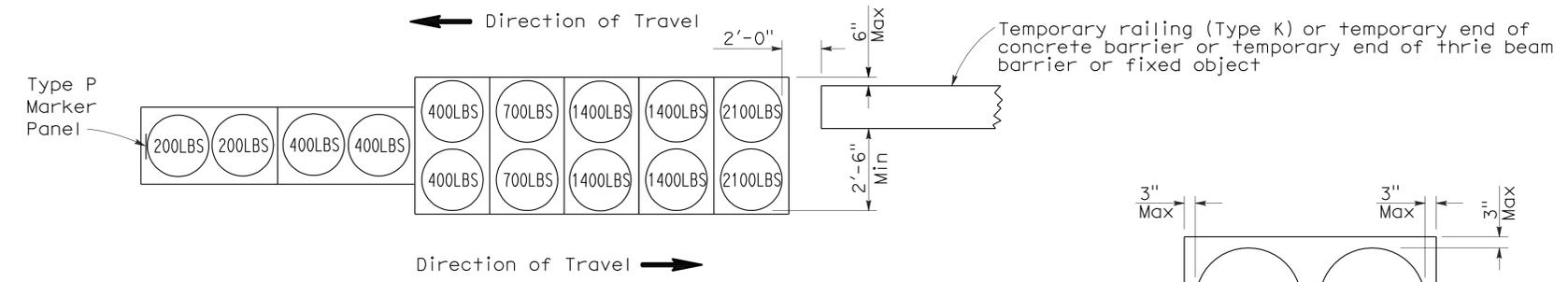


To accompany plans dated 2-13-12



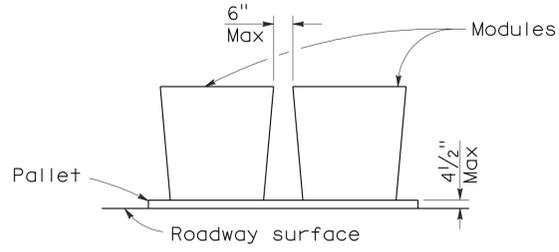
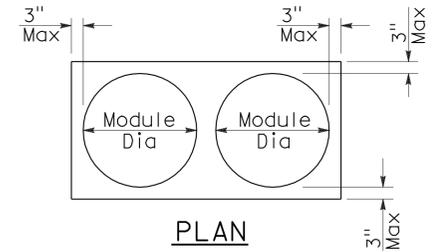
ARRAY 'TB11'

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

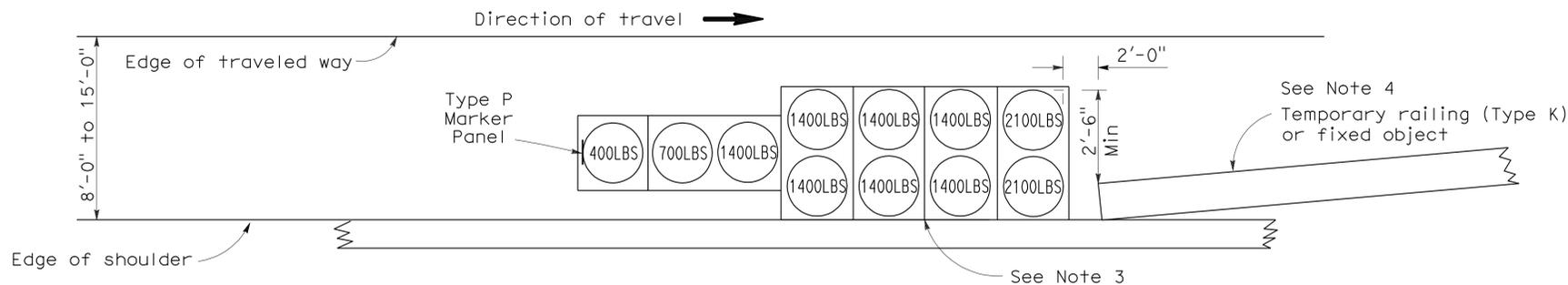
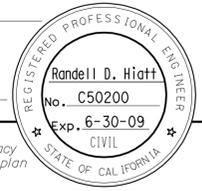
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer, Sta, Tuo	5,99, 108,140	Var	7	24

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

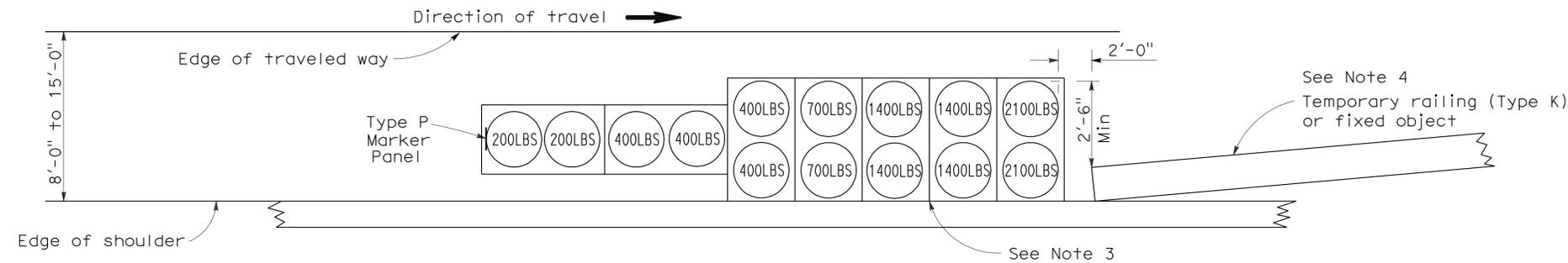
June 6, 2008
PLANS APPROVAL DATE

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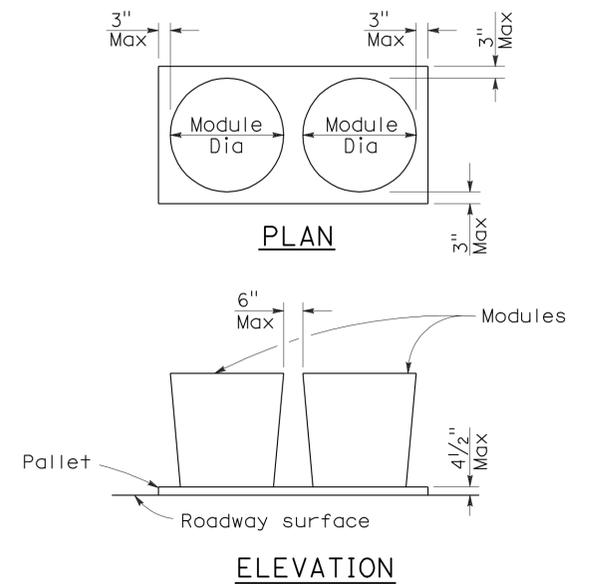
To accompany plans dated 2-13-12



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

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

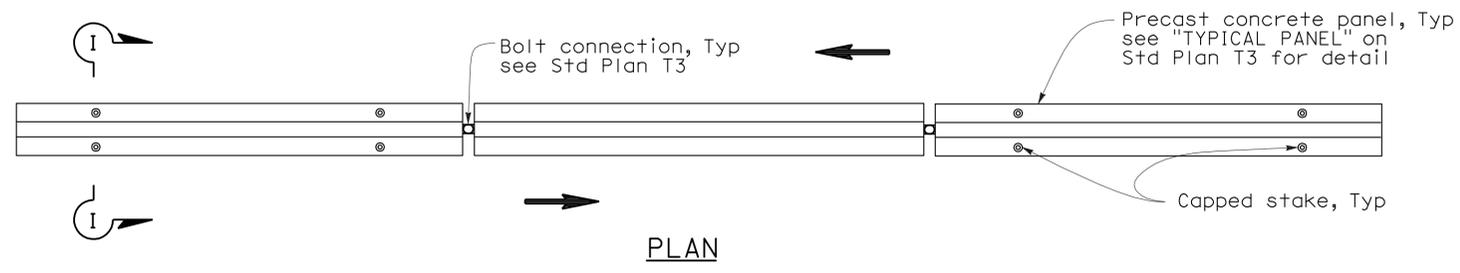
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5,99, 108,140	Var	8	24

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

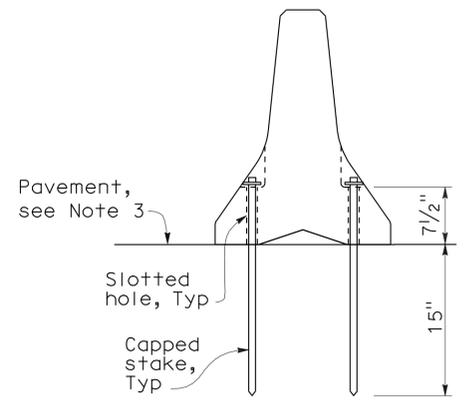
May 20, 2011
PLANS APPROVAL DATE

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.

To accompany plans dated 2-13-12

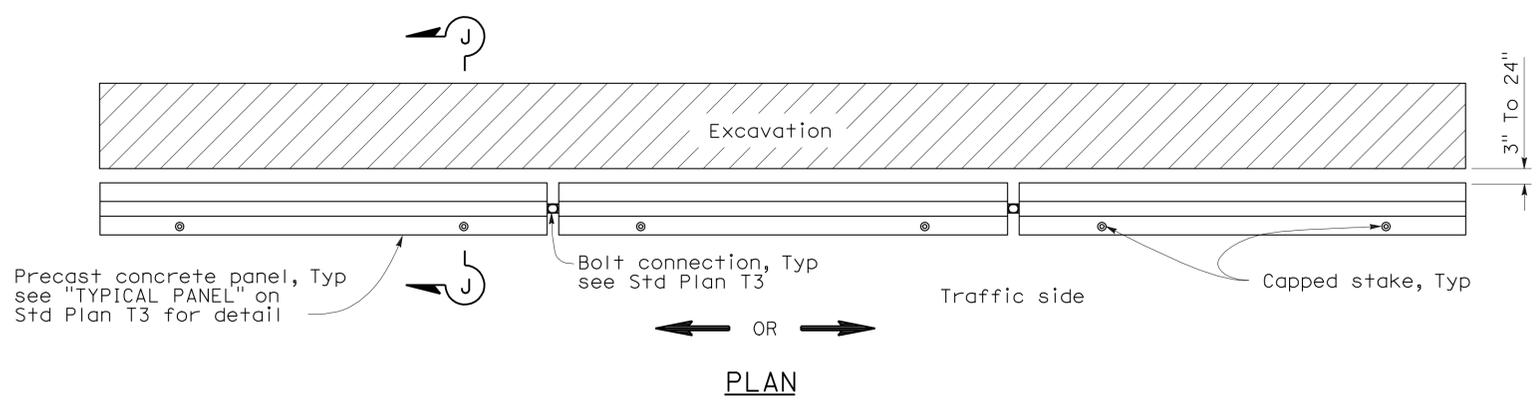


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

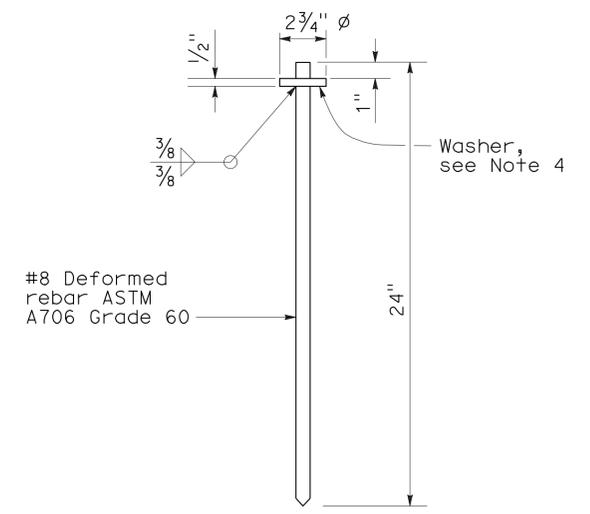
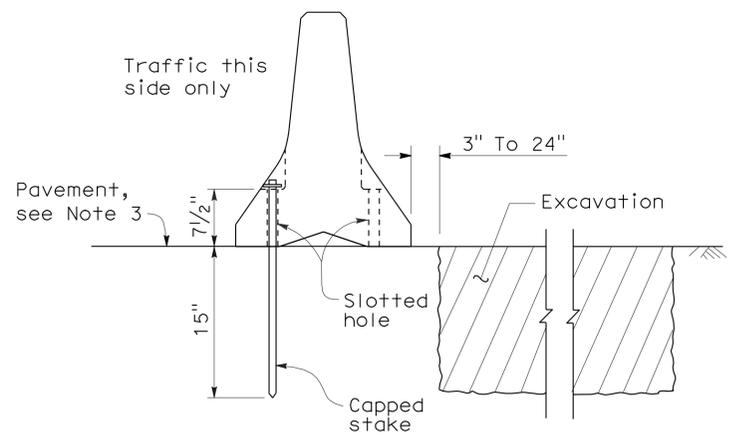


NOTES:

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
10	Mer, Sta, Tuo	5,99, 108, 140	Var	9	24

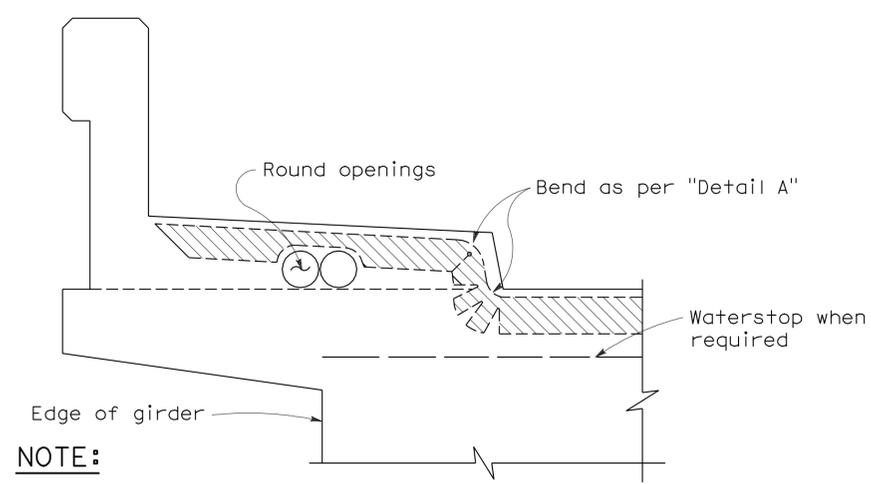
REGISTERED CIVIL ENGINEER

October 5, 2007
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.

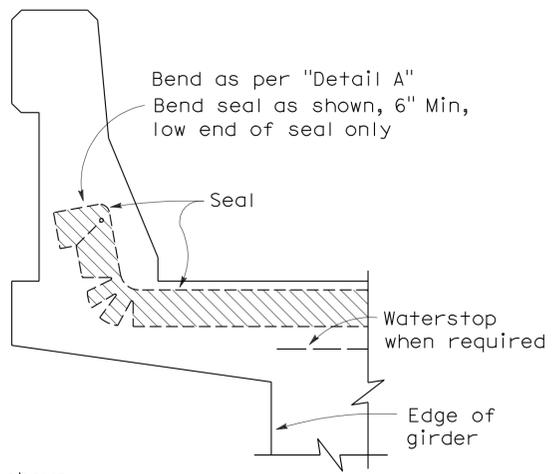
To accompany plans dated 2-13-12

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

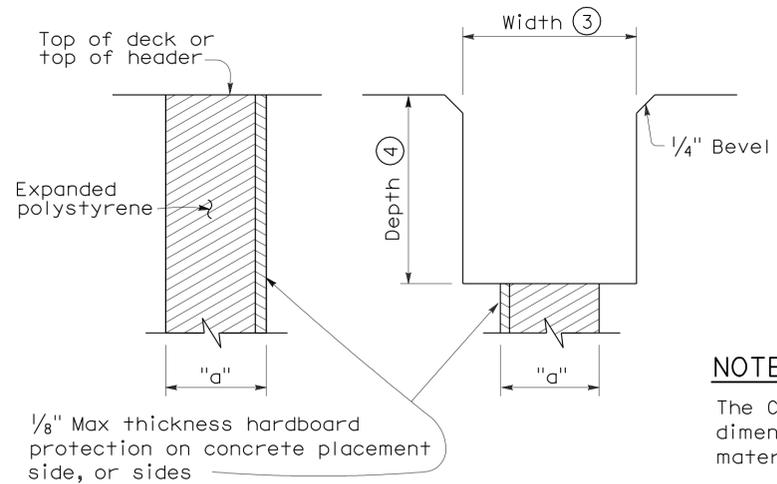


NOTE:
Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



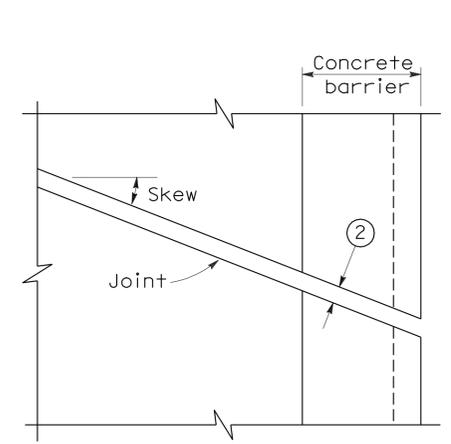
CONCRETE BARRIER



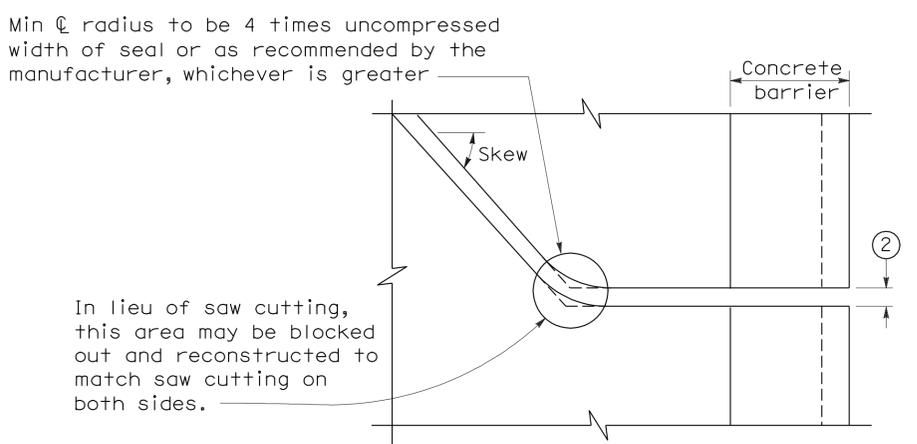
FORMING DETAIL SAWCUT DETAIL

NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

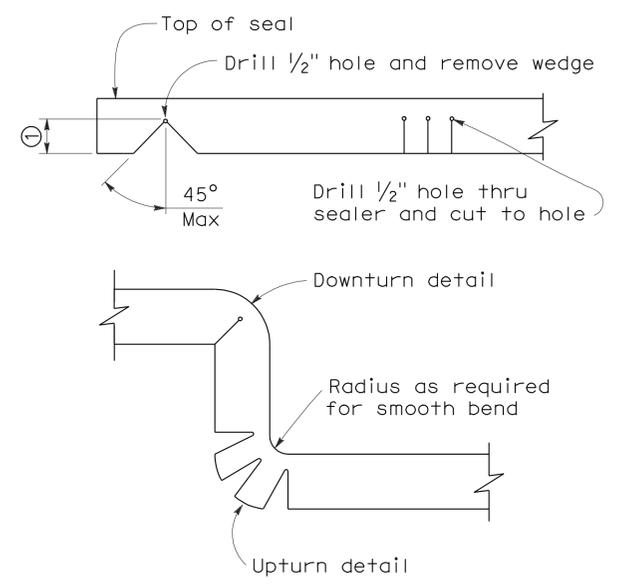
JOINT SEALS DETAILS



PLAN OF JOINT (SKEW ≤ 20°)



PLAN OF JOINT (SKEW > 20°)



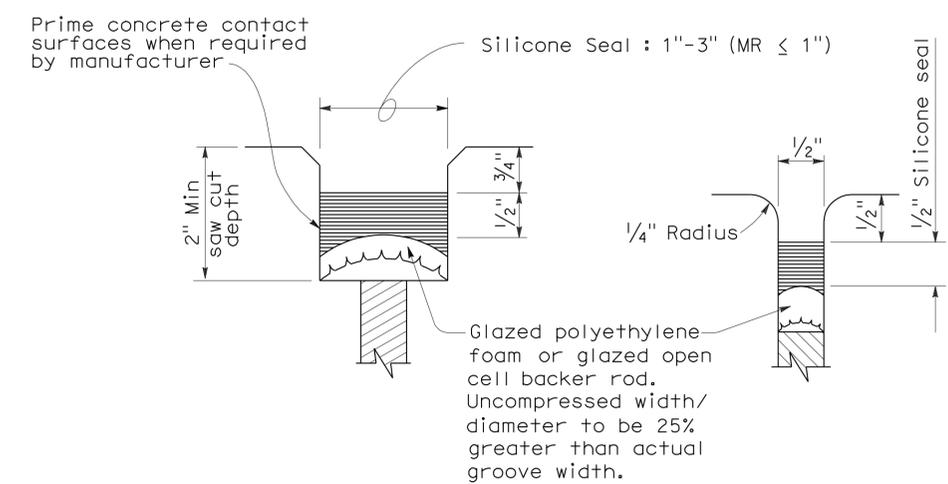
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
NO SCALE

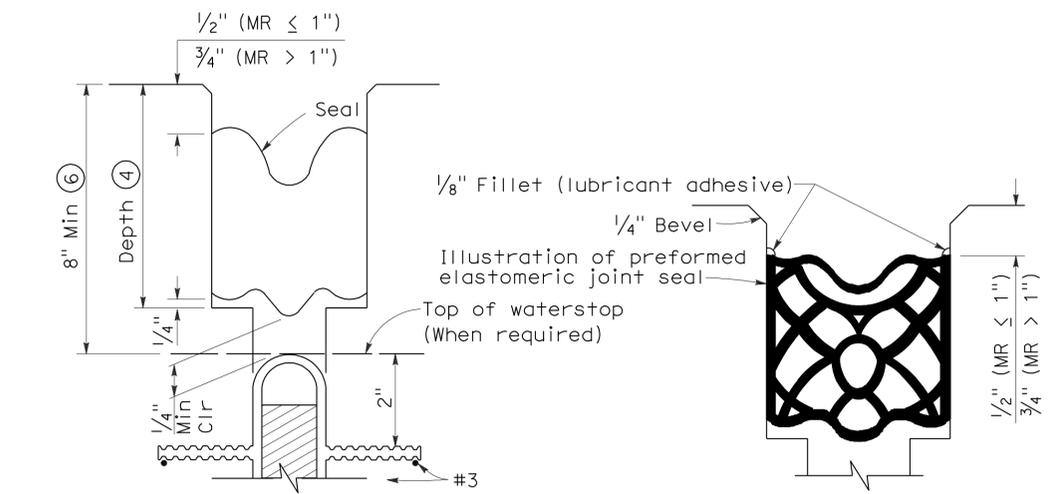


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

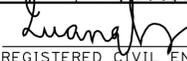
TYPE B SEAL

Movement Rating ≤ 2"

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

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer. Sta. Tuol	5,99, 108, 140	Var	10	24
 REGISTERED CIVIL ENGINEER				10-20-11	DATE
2-13-12 PLANS APPROVAL DATE					
<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>					

NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing.

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

STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

STANDARD PLAN SHEET NO. 
 DETAIL NO. 

NOTES: (APPLY TO THIS SHEET ONLY)

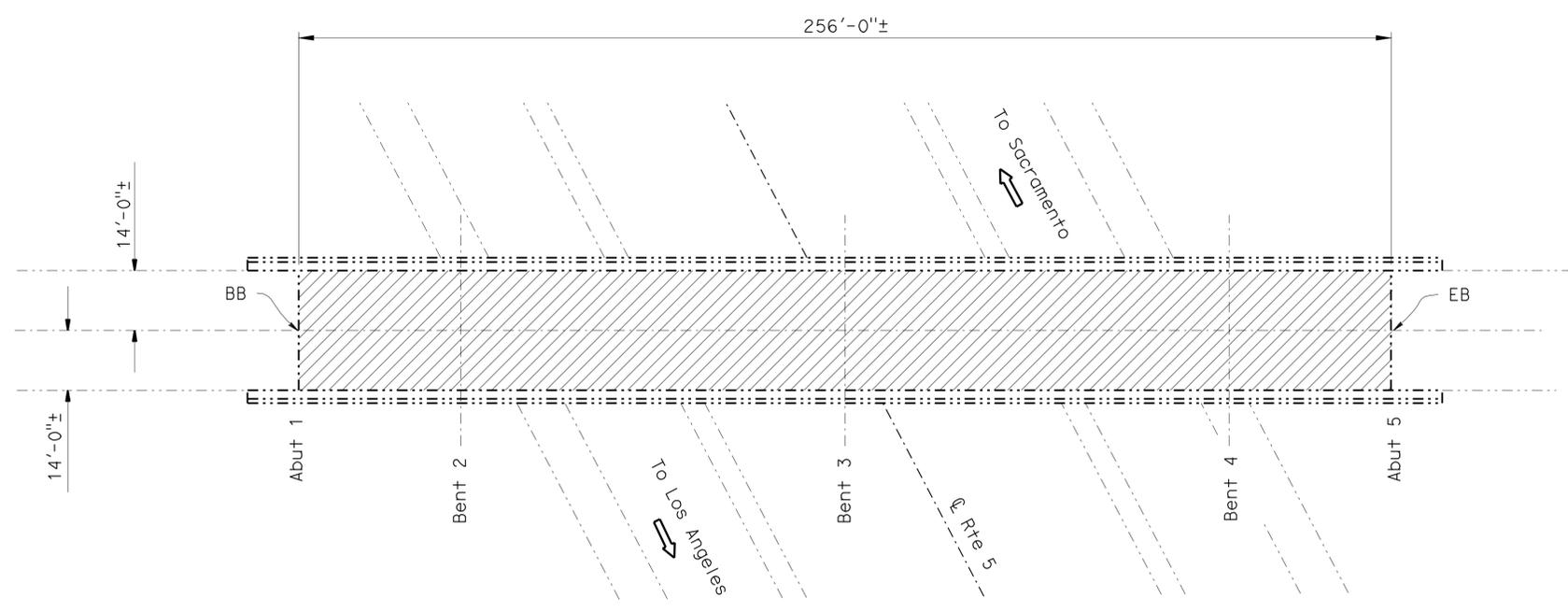
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

QUANTITIES
 MCCABE ROAD OC #39-0170

PREPARE CONCRETE BRIDGE DECK SURFACE	7,170	SQFT
TREAT BRIDGE DECK	7,170	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	80	GAL

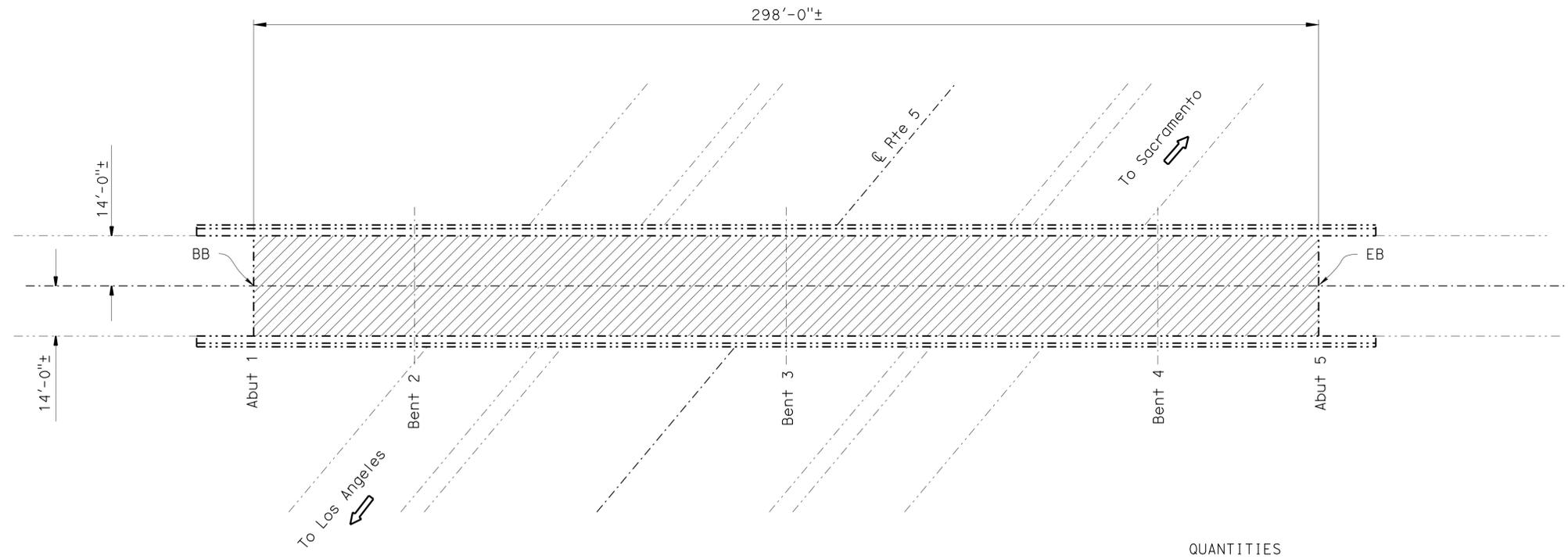
INDEX TO PLANS

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	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	GENERAL PLAN NO. 12
13	GENERAL PLAN NO. 13
14	JOINT SEAL DETAILS NO. 1
15	JOINT SEAL DETAILS NO. 2



MCCABE ROAD OVERCROSSING

Br No. 39-0170, ROUTE 5, PM 22.57
 1" = 20'



WHITWORTH ROAD OVERCROSSING

Br No. 39-0171, ROUTE 5, PM 23.84
 1" = 20'

QUANTITIES
 WHITWORTH ROAD OC #39-0171

PREPARE CONCRETE BRIDGE DECK SURFACE	8,350	SQFT
TREAT BRIDGE DECK	8,350	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	95	GAL


 DESIGN ENGINEER 10-20-11

DESIGN	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DESIGN	Quang Vo	Peter Kang		
DETAILS	David Kish	Peter Kang	LAYOUT	BY David Kish
QUANTITIES	Quang Vo	Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				CHECKED Peter Kang
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tu	5, 99, 108, 140	Var	11	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)

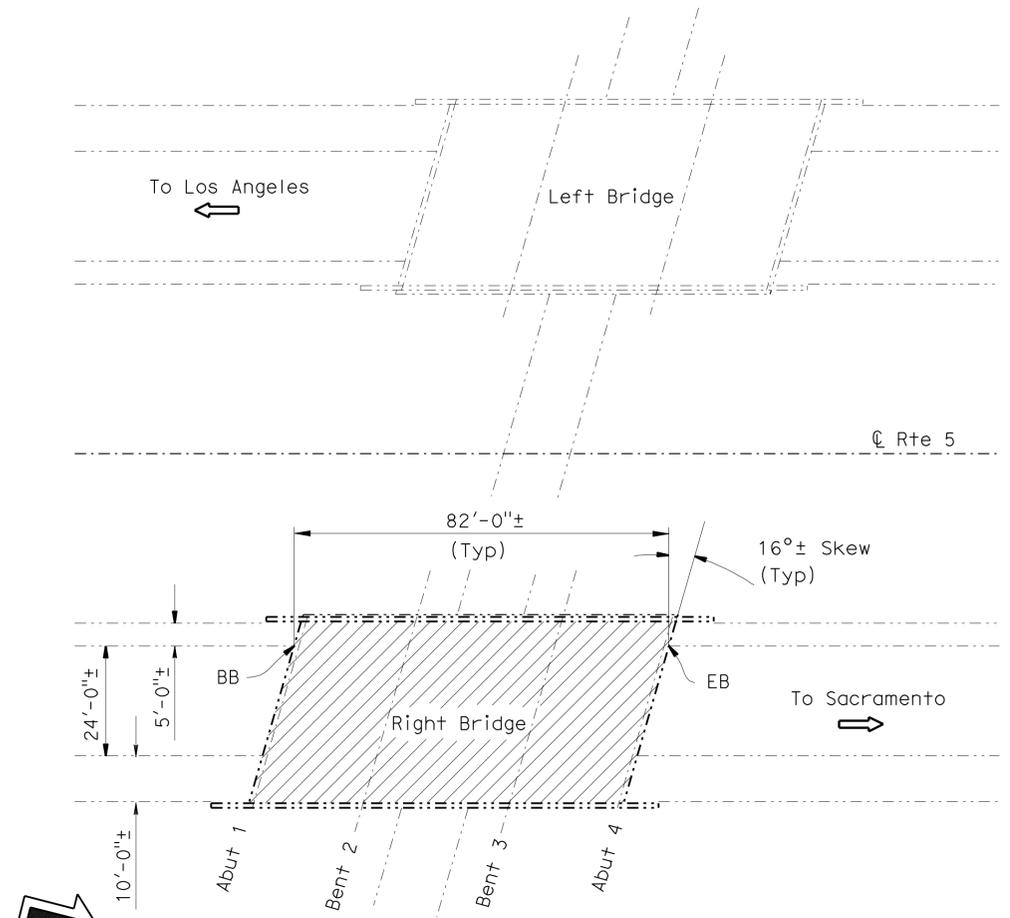


Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.



Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, reconstruct deck joints.

For SECTION A-A see "JOINT SEAL DETAILS NO. 2" sheet.



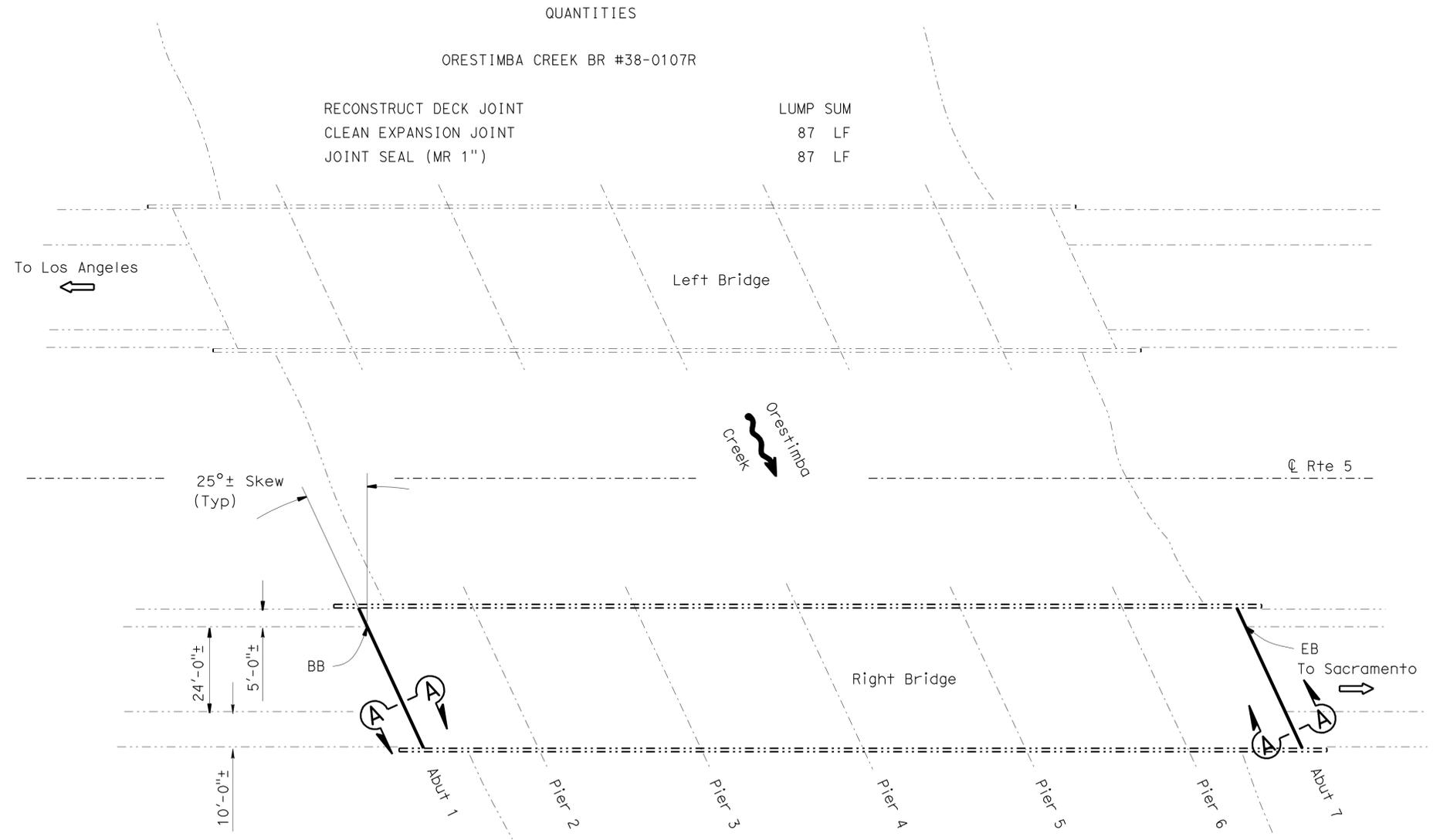
ORESTIMBA ROAD UNDERCROSSING

Br No. 38-0105R, ROUTE 5, PM 5.02
1" = 20'

QUANTITIES

ORESTIMBA RD UC #38-0105R

PREPARE CONCRETE BRIDGE DECK SURFACE	3,200	SQFT
TREAT BRIDGE DECK	3,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	35	GAL



ORESTIMBA CREEK

Br No. 38-0107R, ROUTE 5, PM 5.73
1" = 20'

	BRIDGE NO.	ROUTE 5, 99, 108 & 140 BRIDGES GENERAL PLAN NO. 2
	VARIOUS	
	POST MILE	
DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		VARIES

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe

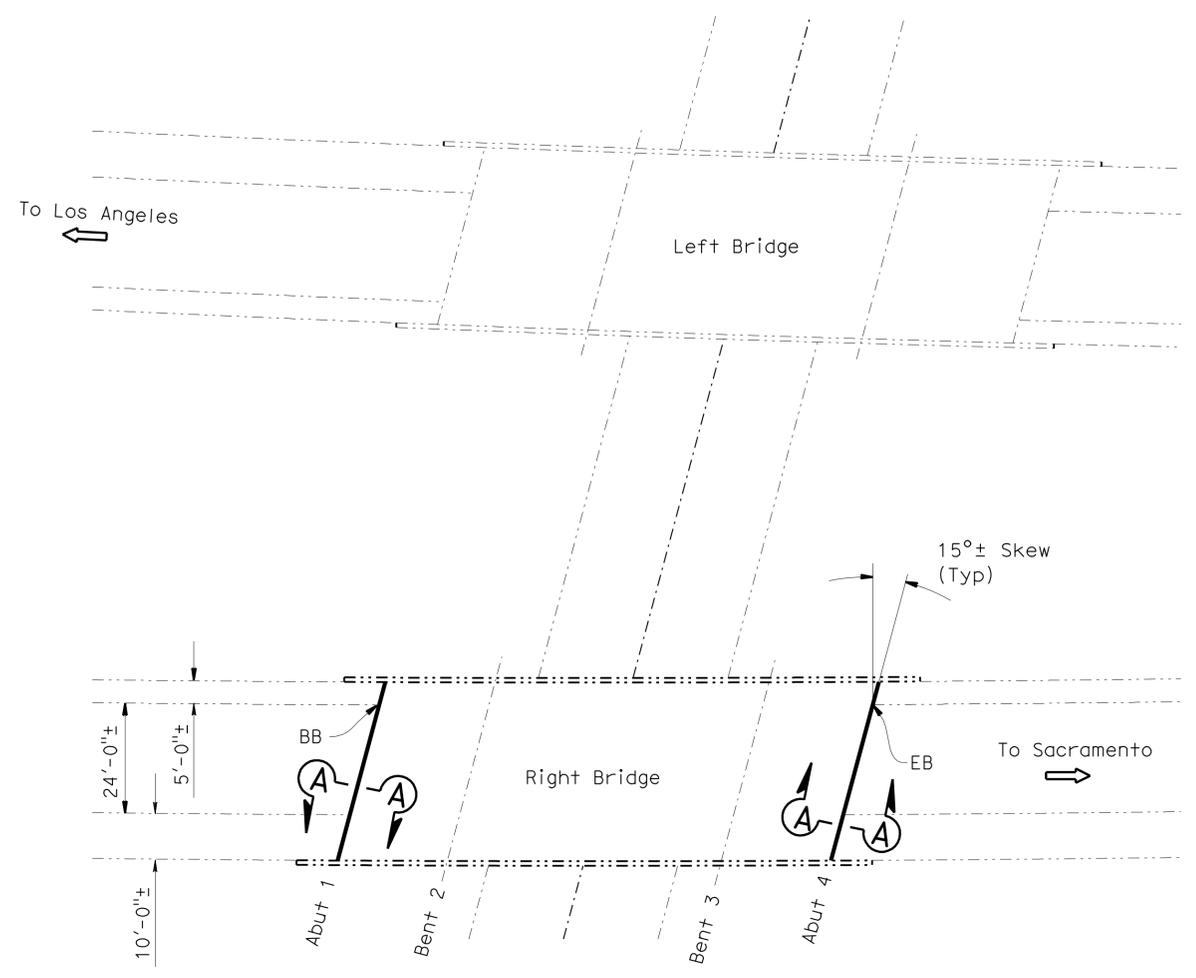
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta. Tuo	5, 99, 108, 140	Var	12	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, reconstruct deck joint.

For SECTION A-A see "JOINT SEAL DETAILS NO. 2" sheet.



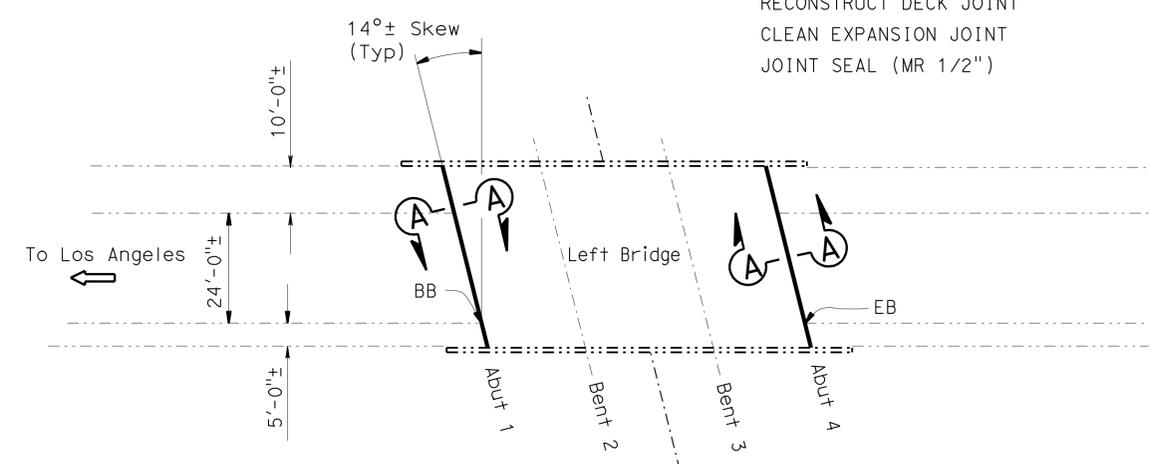
DEL PUERTO CANYON ROAD UNDERCROSSING

Br No. 38-0119R, ROUTE 5, PM 15.86
1" = 20'

QUANTITIES

DEL PUERTO CANYON RD UC #38-0119R

RECONSTRUCT DECK JOINT	LUMP SUM
CLEAN EXPANSION JOINT	80 LF
JOINT SEAL (MR 1/2")	80 LF



DEL PUERTO CREEK ROAD UNDERCROSSING

Br No. 38-0122R/L, ROUTE 5, PM 18.31
1" = 20'

QUANTITIES

DEL PUERTO CREEK RD UC #38-0122R/L

RECONSTRUCT DECK JOINT	LUMP SUM
CLEAN EXPANSION JOINT	160 LF
JOINT SEAL (MR 1/2")	160 LF

Matthew W. Lee
DESIGN ENGINEER
10-20-11

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 3

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



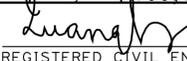
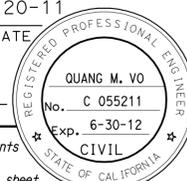
UNIT: 3488
PROJECT NUMBER & PHASE: 1000020424

CONTRACT NO.: 10-0W0901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-23-11, 6-14-11, 10-06-11	3	15

USERNAME => s121614 DATE PLOTTED => 15-FEB-2012 TIME PLOTTED => 08:59

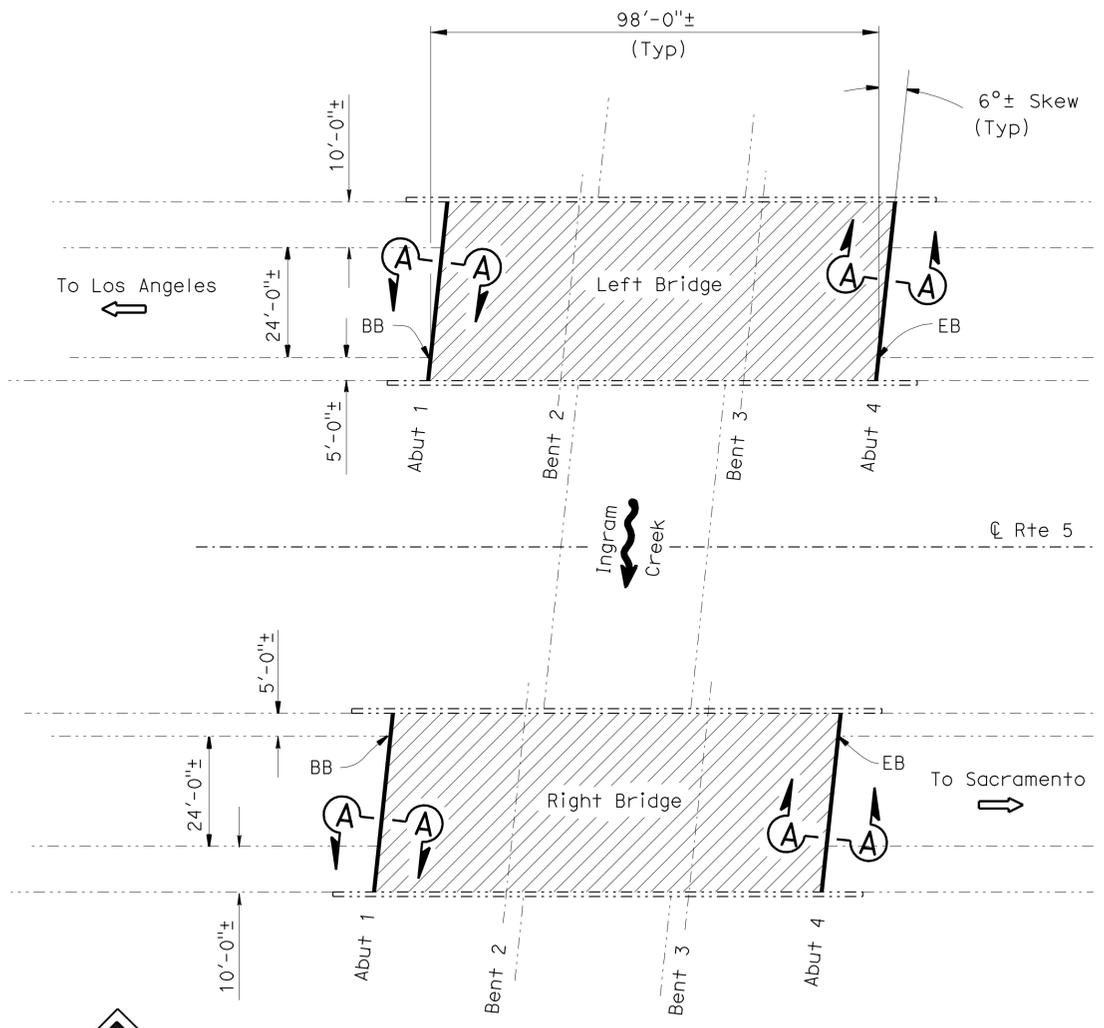
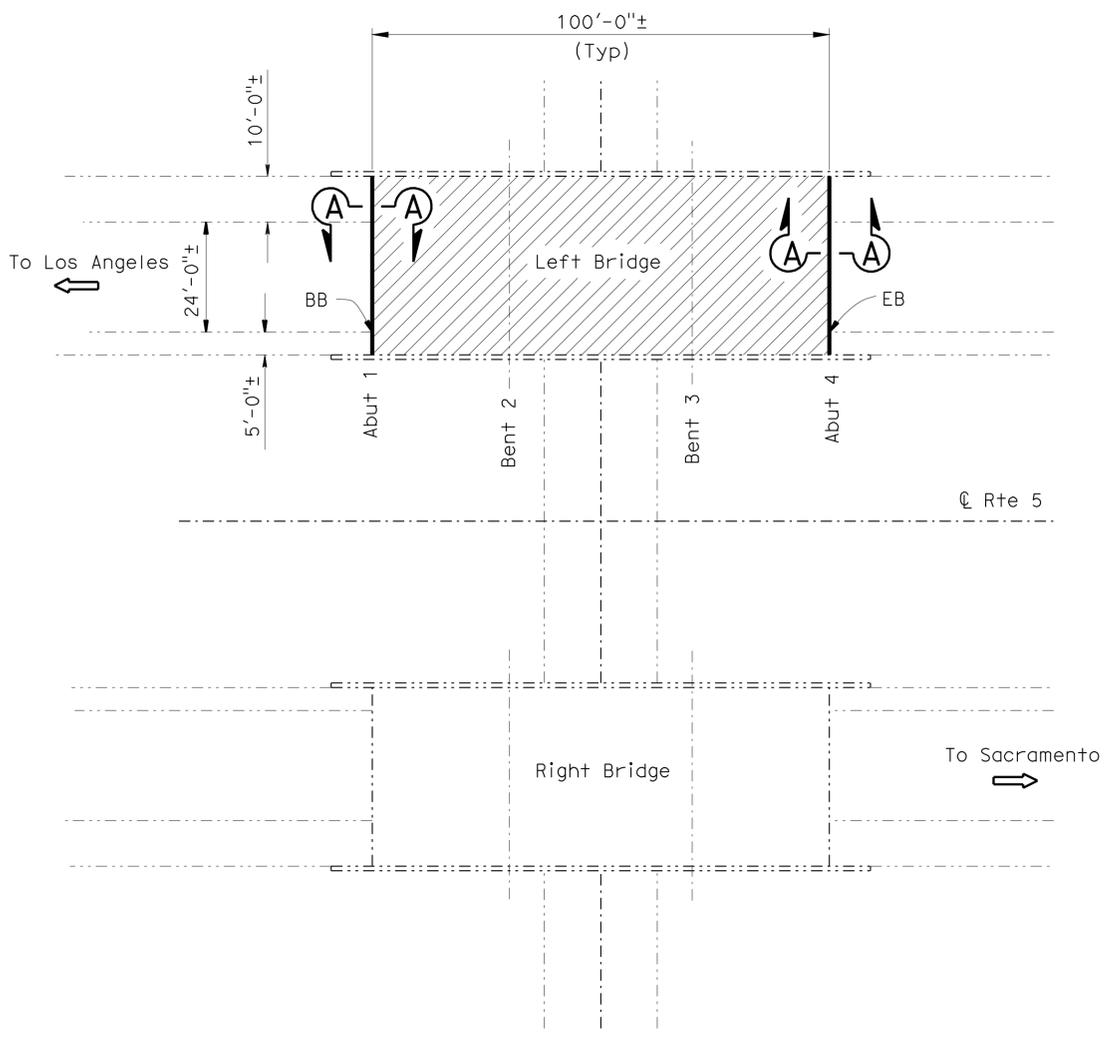
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	13	24
 REGISTERED CIVIL ENGINEER			10-20-11 DATE		
2-13-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

 Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, reconstruct deck joint.

For SECTION A-A see "JOINT SEAL DETAILS NO. 2" sheet.



INGRAM CREEK ROAD UNDERCROSSING

Br No. 38-0125L, ROUTE 5, PM 22.99
 1" = 20'

QUANTITIES

INGRAM CREEK RD UC #38-0125L

PREPARE CONCRETE BRIDGE DECK SURFACE	3,900	SQFT
RECONSTRUCT DECK JOINT	LUMP	SUM
CLEAN EXPANSION JOINT	79	LF
JOINT SEAL (MR 1/2")	79	LF
TREAT BRIDGE DECK	3,900	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45	GAL

QUANTITIES

INGRAM CREEK BR #38-0126R/L

PREPARE CONCRETE BRIDGE DECK SURFACE	7,650	SQFT
RECONSTRUCT DECK JOINT	LUMP	SUM
CLEAN EXPANSION JOINT	162	LF
JOINT SEAL (MR 1/2")	162	LF
TREAT BRIDGE DECK	7,650	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	85	GAL

INGRAM CREEK

Br No. 38-0126R/L, ROUTE 5, PM 23.07
 1" = 20'


 10-20-11
 DESIGN ENGINEER

DESIGN	BY Quang Vo	CHECKED Peter Kang
DETAILS	BY David Kish	CHECKED Peter Kang
QUANTITIES	BY Quang Vo	CHECKED Peter Kang

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY David Kish CHECKED Peter Kang
SPECIFICATIONS	BY Jarvis Mahe PLANS AND SPECS COMPARED Jarvis Mahe

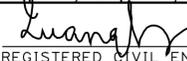
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 108 & 140 BRIDGES GENERAL PLAN NO. 4



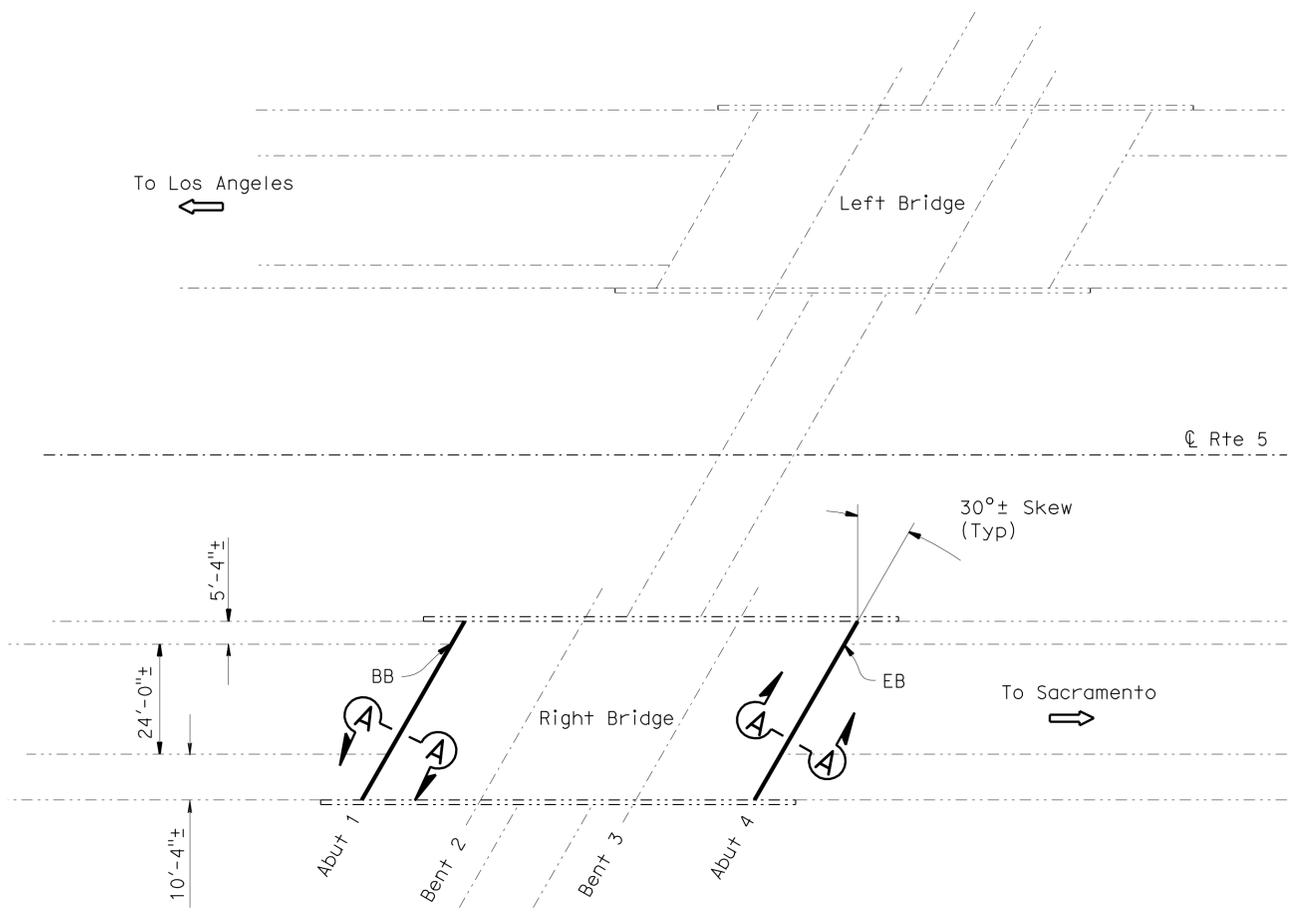
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	14	24
 REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
REGISTERED PROFESSIONAL ENGINEER QUANG M. VO No. C 055211 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

 Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, reconstruct deck joint.

For SECTION A-A see "JOINT SEAL DETAILS NO. 2" sheet.



HAMILTON ROAD UNDERCROSSING

Br No. 38-0127R, ROUTE 5, PM 25.53
1" = 20'

QUANTITIES

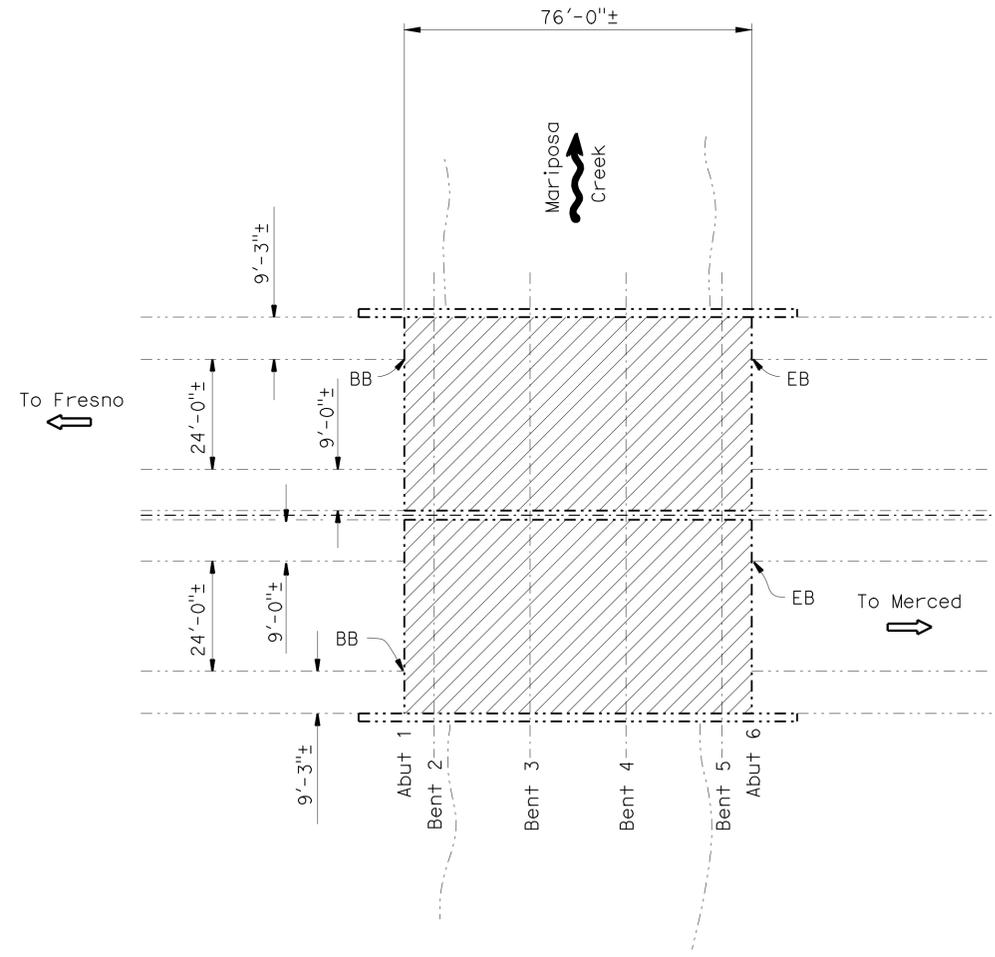
HAMILTON RD UC #38-0127R

RECONSTRUCT DECK JOINT	LUMP SUM
CLEAN EXPANSION JOINT	94 LF
JOINT SEAL (MR 1/2")	94 LF

QUANTITIES

MARIPOSA CREEK BR #39-0081

PREPARE CONCRETE BRIDGE DECK SURFACE	6,500 SQFT
TREAT BRIDGE DECK	6,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	72 GAL



MARIPOSA CREEK

Br No. 39-0081, ROUTE 99, PM 9.35
1" = 20'


10-20-11
DESIGN ENGINEER

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

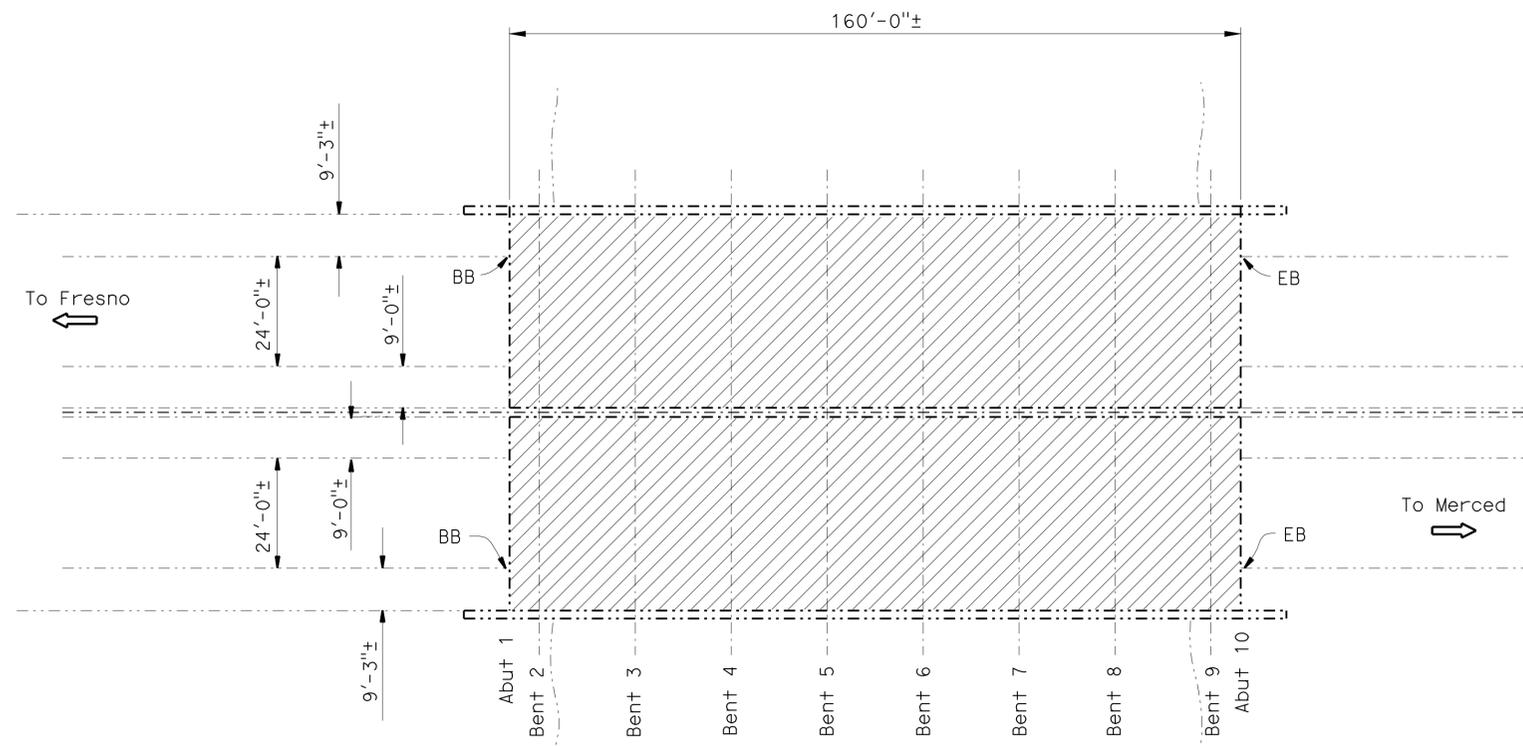
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta. Two	5, 99, 108, 140	Var	15	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
2-13-12			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER QUANG M. VO No. C 055211 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTES: (APPLY TO THIS SHEET ONLY)
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.



QUANTITIES
 BLACK RASCAL CANAL #39-0010R/L

PREPARE CONCRETE BRIDGE DECK SURFACE	7,600	SQFT
TREAT BRIDGE DECK	7,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	85	GAL
PUBLIC SAFETY PLAN		LUMP SUM



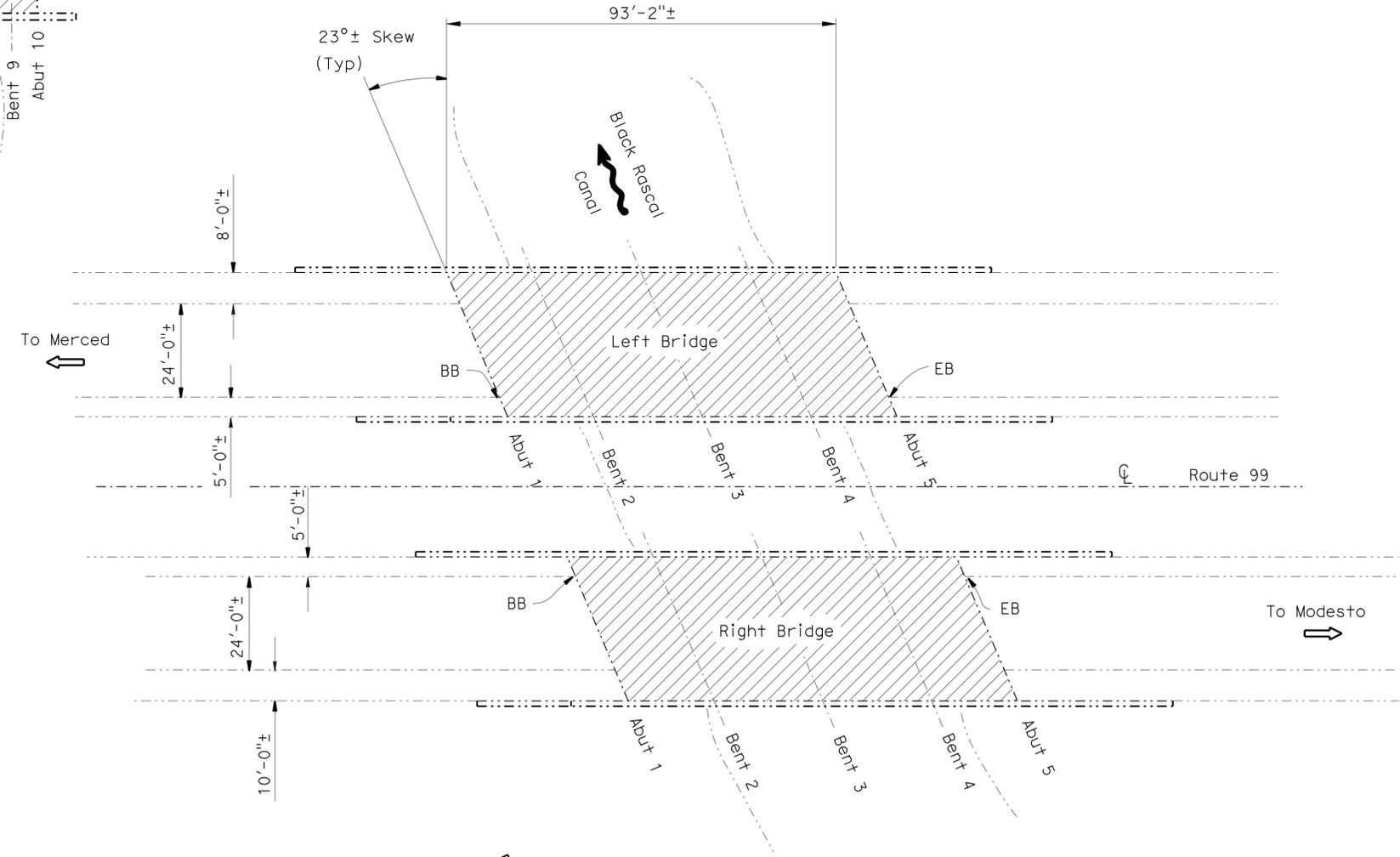
DUCK SLOUGH OVERFLOW

Br No. 39-0005, ROUTE 99, PM 9.86
 1" = 20'

QUANTITIES

DUCK SLOUGH OVERFLOW #39-0005

PREPARE CONCRETE BRIDGE DECK SURFACE	13,700	SQFT
TREAT BRIDGE DECK	13,700	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	150	GAL



BLACK RASCAL CANAL

Br No. 39-0010R/L, ROUTE 99, PM 17.30
 1" = 20'

Matthew W. Lee
 DESIGN ENGINEER
 10-20-11

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 1000020424

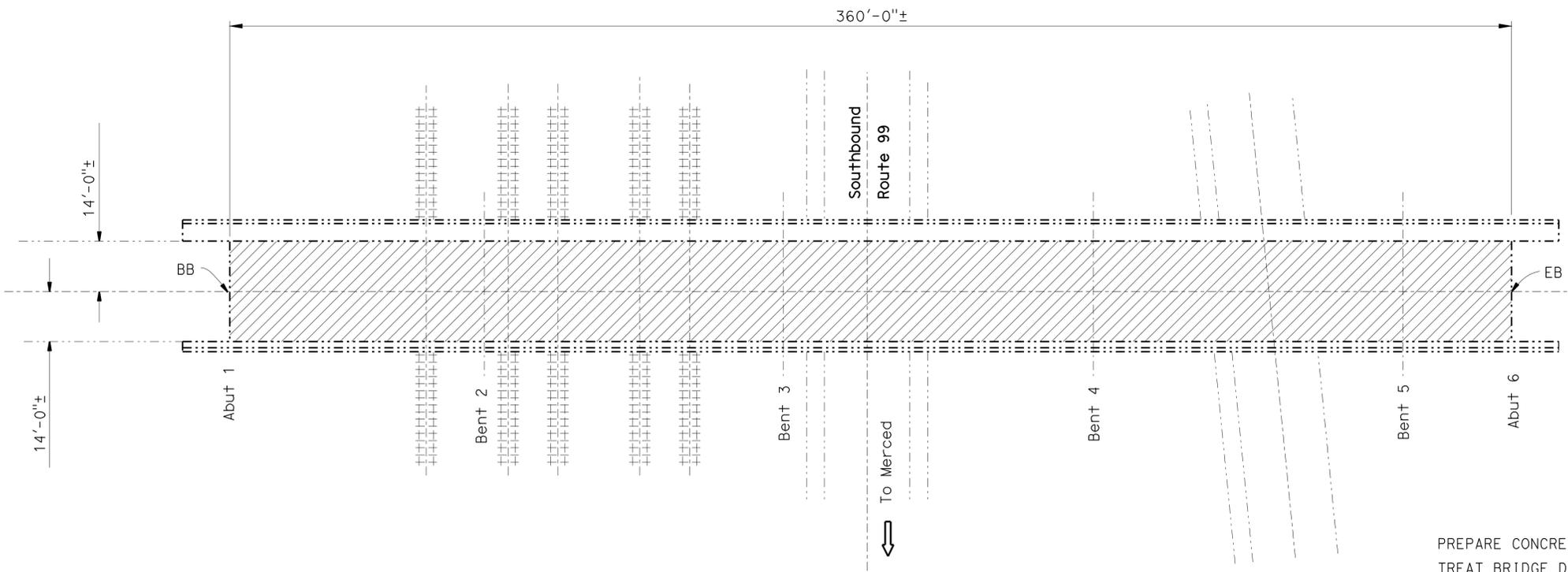
CONTRACT NO.: 10-0W0901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-24-11 6-14-11 7-06-11 10-06-11	6	15

USERNAME => s121614 DATE PLOTTED => 15-FEB-2012 TIME PLOTTED => 08:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta. Tu	5,99, 108, 140	Var	16	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
REGISTERED PROFESSIONAL ENGINEER QUANG M. VO No. C 055211 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



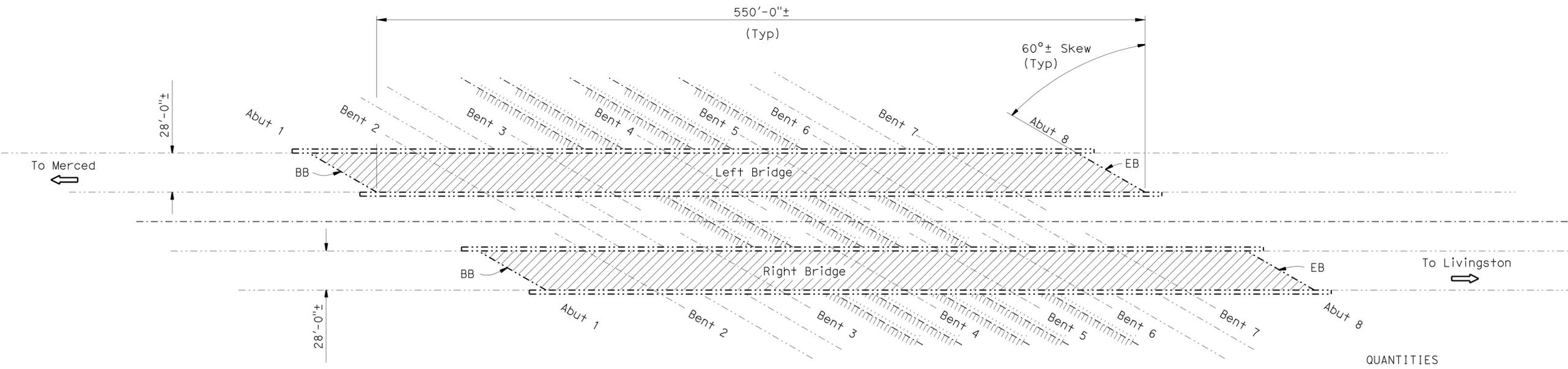
NOTES: (APPLY TO THIS SHEET ONLY)
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

QUANTITIES

BUHACH ROAD OC #39-0073

PREPARE CONCRETE BRIDGE DECK SURFACE	10,080	SQFT
TREAT BRIDGE DECK	10,080	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	112	GAL
PUBLIC SAFETY PLAN		LUMP SUM

BUHACH ROAD OVERCROSSING
 Br No. 39-0073, ROUTE 99, PM 20.52
 1" = 20'



QUANTITIES

EAST ATWATER OH #39-0126R/L

PREPARE CONCRETE BRIDGE DECK SURFACE	30,800	SQFT
TREAT BRIDGE DECK	30,800	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	345	GAL
PUBLIC SAFETY PLAN		LUMP SUM

EAST ATWATER OVERHEAD
 Br No. 39-0126R/L, ROUTE 99, PM 21.61
 1" = 40'

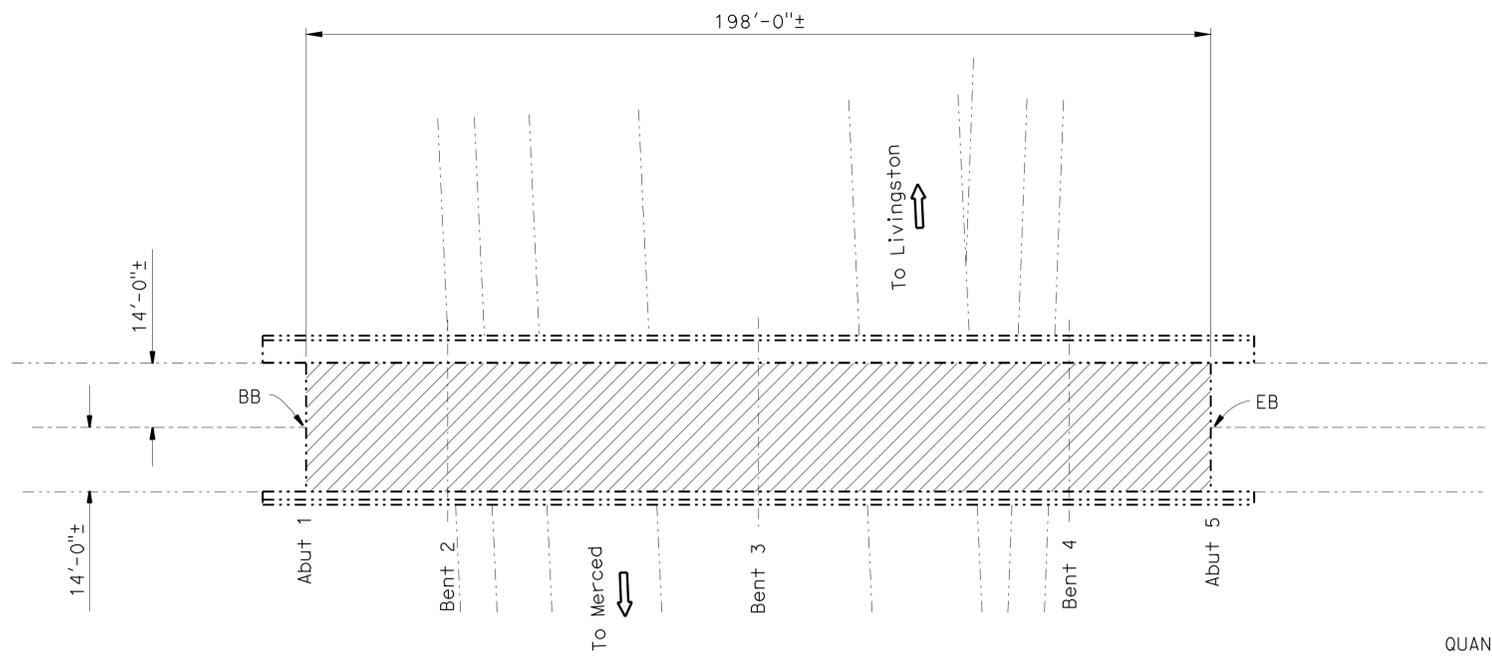
Matthew Lee
 DESIGN ENGINEER
 10-20-11

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

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

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, StG, Tuo	5, 99, 108, 140	Var	17	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
<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>					



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal.

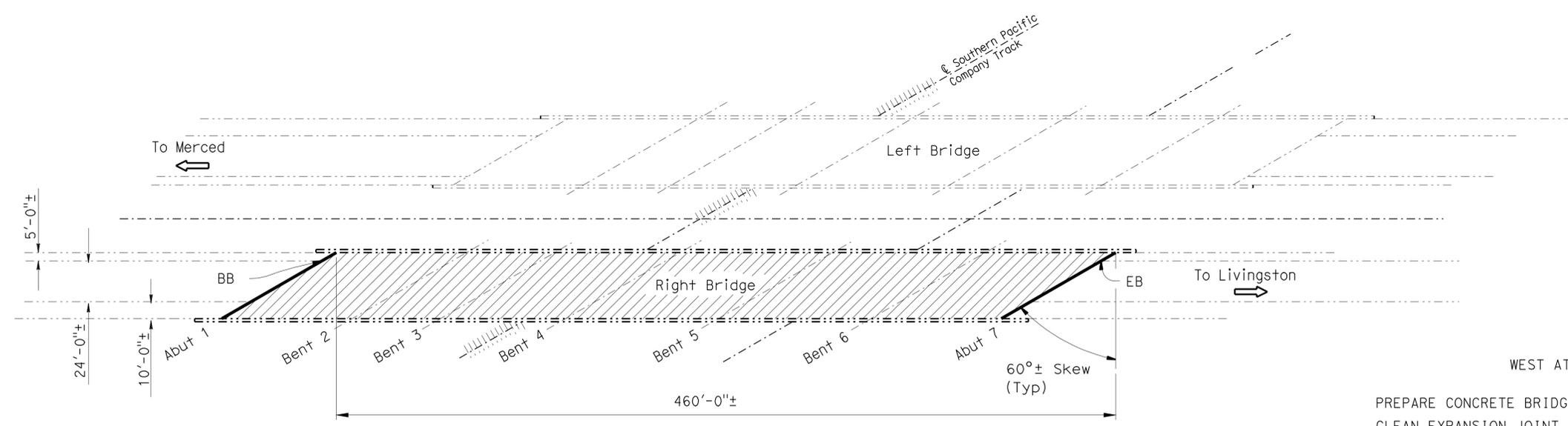


APPLEGATE ROAD OVERCROSSING

Br No. 39-0127, ROUTE 99, PM 22.76
1" = 20'

QUANTITIES
APPLEGATE RD OC #39-0127

PREPARE CONCRETE BRIDGE DECK SURFACE	5,550 SQFT
TREAT BRIDGE DECK	5,550 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	60 GAL
PUBLIC SAFETY PLAN	LUMP SUM



WEST ATWATER OVERHEAD

Br No. 39-0128R, ROUTE 99, PM 23.46
1" = 40'

QUANTITIES
WEST ATWATER OH #39-0128R

PREPARE CONCRETE BRIDGE DECK SURFACE	17,940 SQFT
CLEAN EXPANSION JOINT	158 LF
JOINT SEAL (MR 1")	158 LF
TREAT BRIDGE DECK	17,940 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	200 GAL
PUBLIC SAFETY PLAN	LUMP SUM

DESIGN ENGINEER 10-20-11

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 8

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 1000020424

CONTRACT NO.: 10-0W0901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

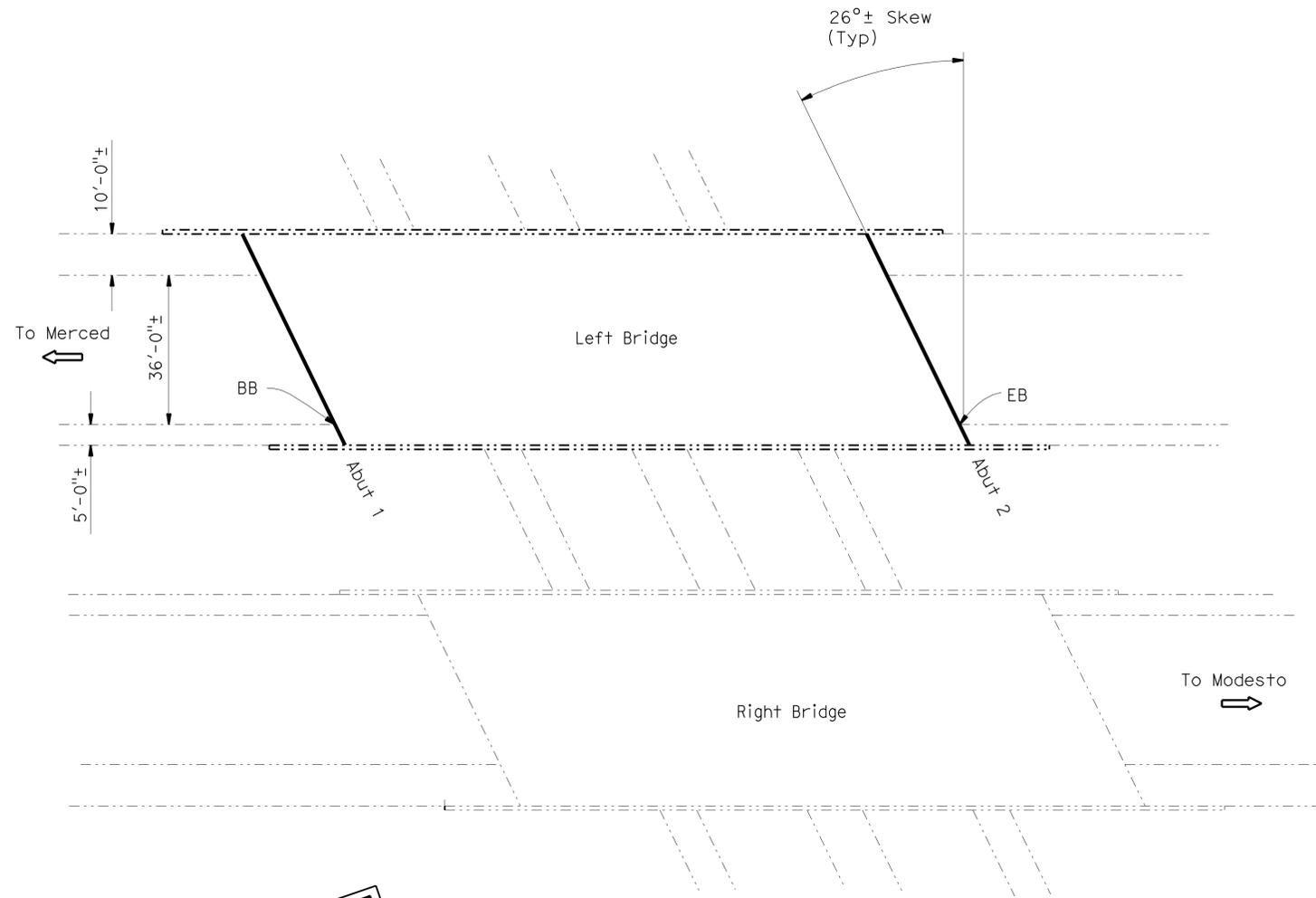
REVISION DATES	SHEET	OF
3-24-11 6-14-11 7-06-11 8-04-11	8	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, StG, Tuo	5, 99, 108, 140	Var	18	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		

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

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of existing joint seal removal and placement of new joint seal.



LANDER AVENUE SEPARATION

Br No. 38-0053L, ROUTE 99, PM R1.63
1" = 20'

QUANTITIES

LANDER AVE SEPARATION #38-0053L

CLEAN EXPANSION JOINT	115 LF
JOINT SEAL (MR 1")	115 LF

Matthew Cole
DESIGN ENGINEER 10-20-11

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 9

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

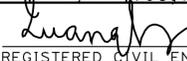


UNIT: 3488
PROJECT NUMBER & PHASE: 1000020424

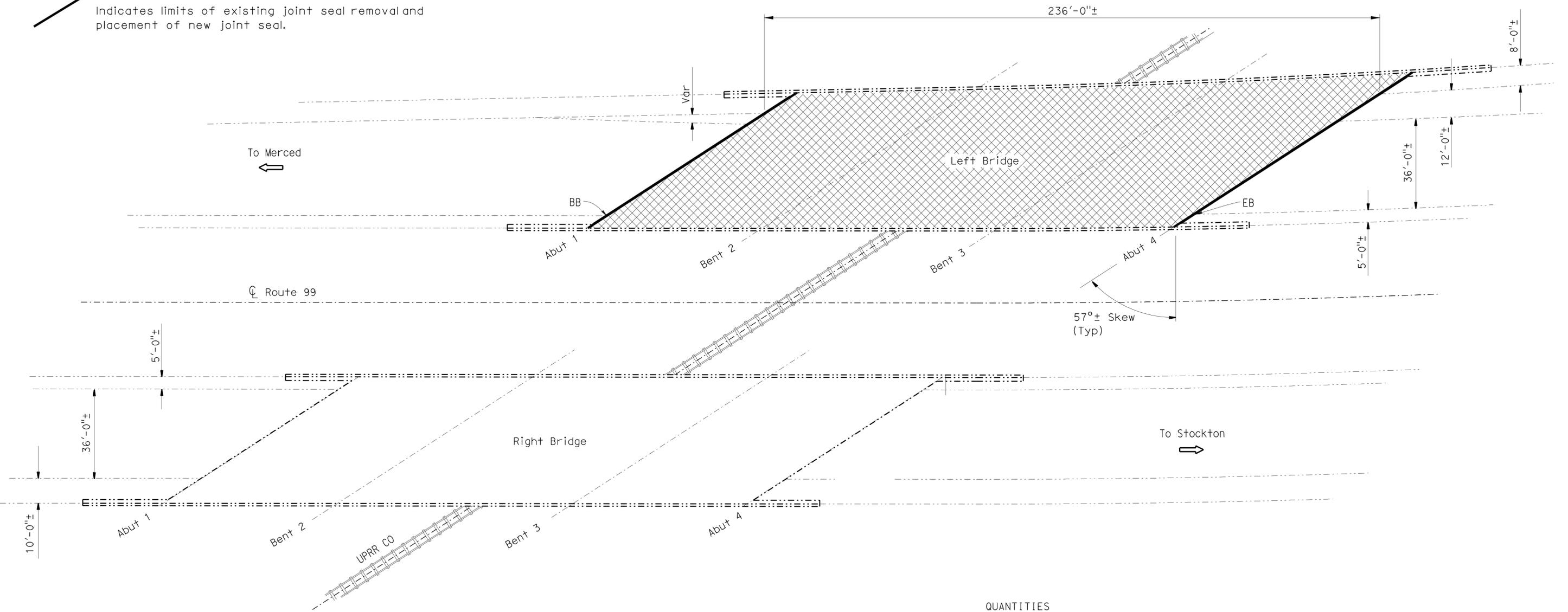
CONTRACT NO.: 10-0W0901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-25-11 8-14-11 10-06-11 10-17-11	9	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuol	5, 99, 108, 140	Var	19	24
 REGISTERED CIVIL ENGINEER			10-20-11	DATE	
2-13-12 PLANS APPROVAL DATE					
<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>					

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.
 -  Indicates chip seal removal approximate thickness 1/4" to 1/2"±
 -  Indicates limits of existing joint seal removal and placement of new joint seal.



QUANTITIES

NORTH TURLOCK OH #38-0144L

PREPARE CONCRETE BRIDGE DECK SURFACE	13,200	SQFT
REMOVE CHIP SEAL	13,200	SQFT
CLEAN EXPANSION JOINT	206	LF
JOINT SEAL (MR 1")	206	LF
TREAT BRIDGE DECK	13,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	145	GAL

NORTH TURLOCK OVERHEAD

Br No. 38-0144L, ROUTE 99, PM R6.41
1" = 20'


DESIGN ENGINEER 10-20-11

DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				CHECKED Peter Kang
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

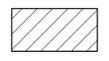
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 10

USERNAME => s121614 DATE PLOTTED => 15-FEB-2012 TIME PLOTTED => 09:08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	20	24
 REGISTERED CIVIL ENGINEER			10-20-11	DATE	
PLANS APPROVAL DATE 2-13-12					
QUANG M. VO No. C 055211 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA					
<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>					

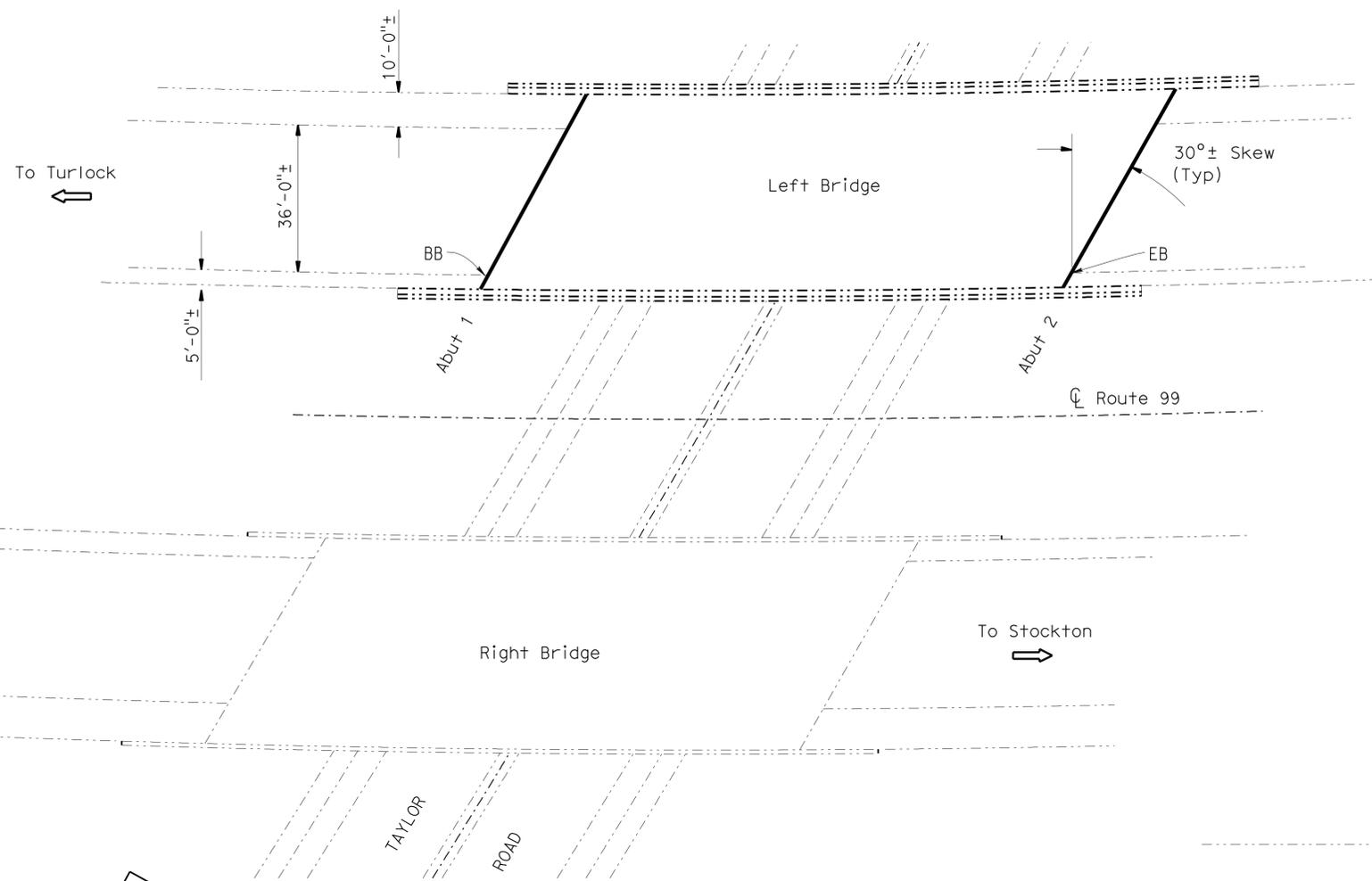
NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.



Indicates limits of existing joint seal removal and placement of new joint seal.

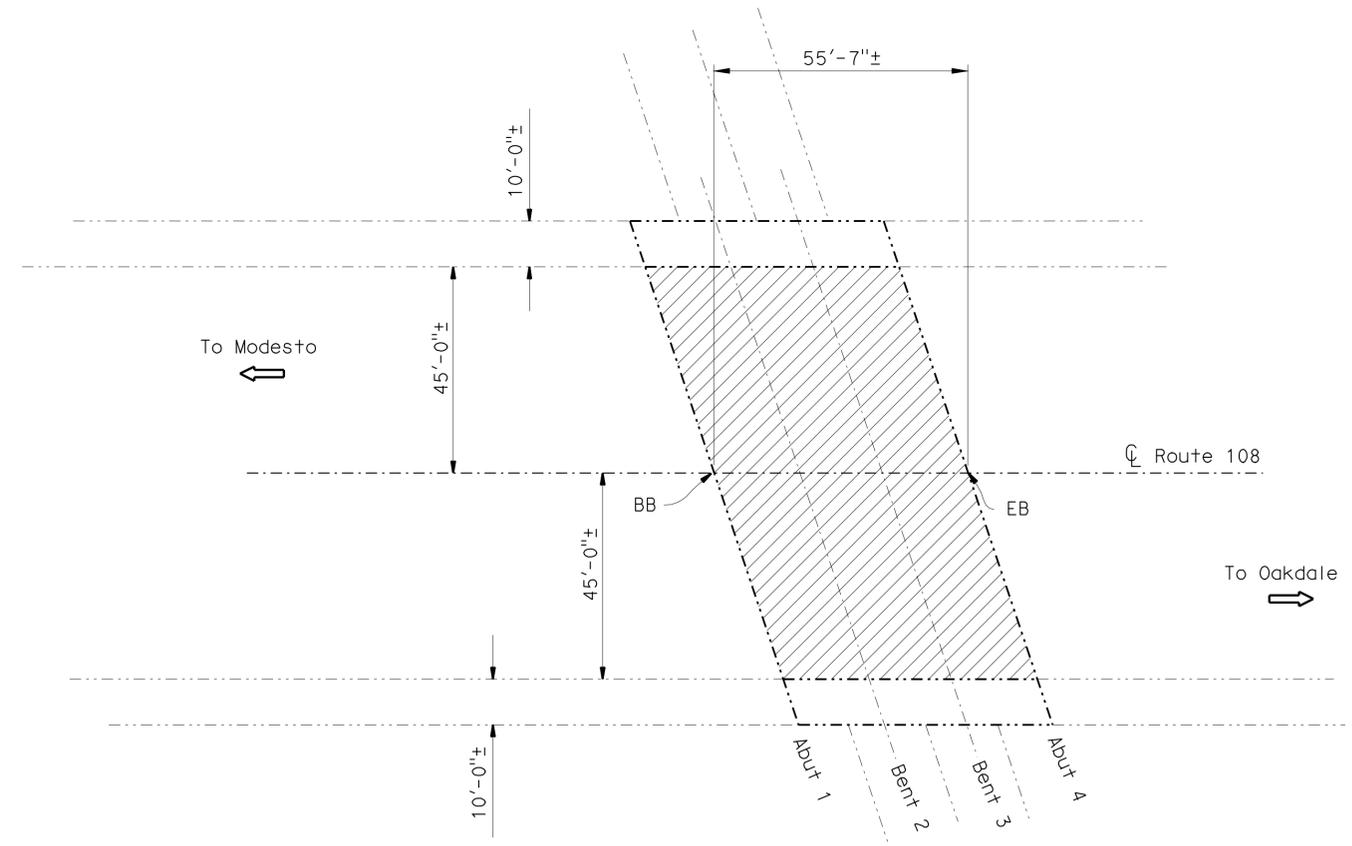


TAYLOR ROAD UNDERCROSSING

Br No. 38-0145L, ROUTE 99, PM R6.75
1" = 20'

QUANTITIES

TAYLOR ROAD UC	#38-0145L		
CLEAN EXPANSION JOINT		120	LF
JOINT SEAL (MR 1")		120	LF



HETCH HETCHY CROSSING

Br No. 38-0157M, ROUTE 108, PM 26.74
1" = 20'

QUANTITIES

HETCH HETCHY CROSSING #38-0157M

PREPARE CONCRETE BRIDGE DECK SURFACE	5,010	SQFT
TREAT BRIDGE DECK	5,010	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	56	GAL
PUBLIC SAFETY PLAN		LUMP SUM


DESIGN ENGINEER

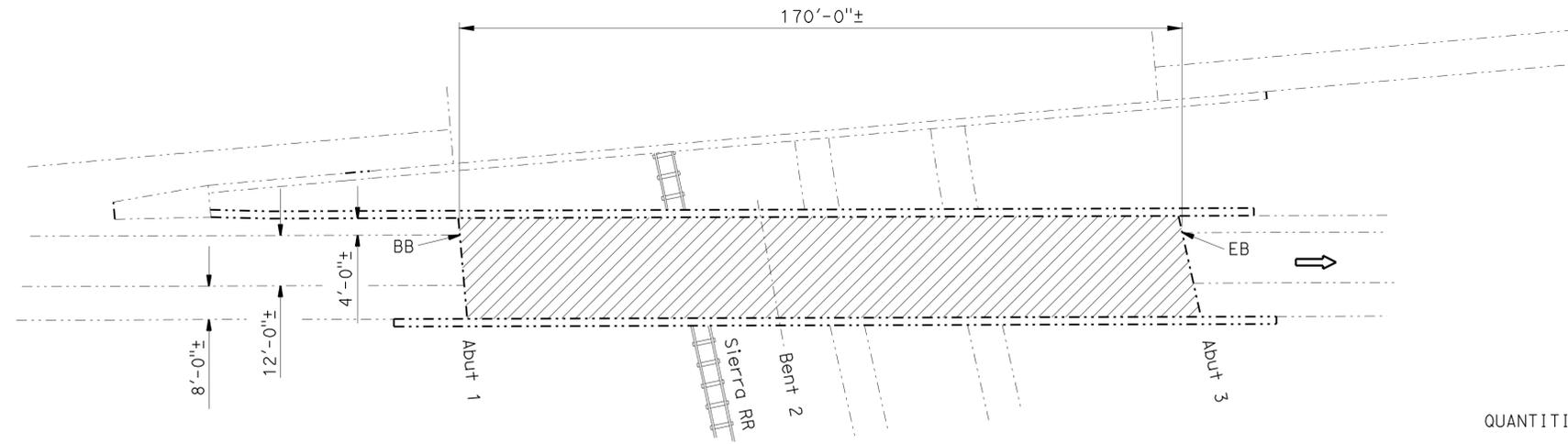
DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	21	24
				10-20-11	
REGISTERED CIVIL ENGINEER				DATE	
2-13-12				PLANS APPROVAL DATE	
					
<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>					



NOTES: (APPLY TO THIS SHEET ONLY)
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

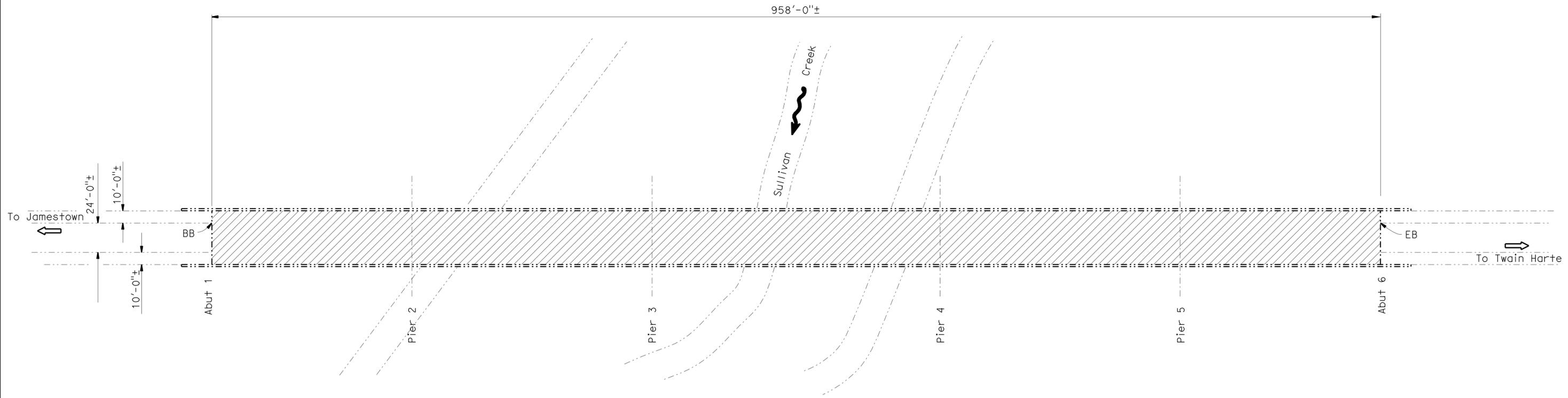
SANGUINETTI ROAD OVERHEAD / OFF-RAMP

Br No. 32-0062S, ROUTE 108, PM R2.02
 1" = 20'

SANGUINETTI RD OH/OFF-RAMP #32-0062S

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	4,080	SQFT
TREAT BRIDGE DECK	4,080	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45	GAL
PUBLIC SAFETY PLAN		LUMP SUM



SULLIVAN CREEK

Br No. 32-0067, ROUTE 108, PM R2.78
 1" = 40'

QUANTITIES
 SULLIVAN CREEK BR #32-0067

PREPARE CONCRETE BRIDGE DECK SURFACE	42,150	SQFT
TREAT BRIDGE DECK	42,150	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	470	GAL
PUBLIC SAFETY PLAN		LUMP SUM

 10-20-11
 DESIGN ENGINEER

DESIGN	BY Quang Vo	CHECKED Peter Kang
DETAILS	BY David Kish	CHECKED Peter Kang
QUANTITIES	BY Quang Vo	CHECKED Peter Kang

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
LAYOUT	BY David Kish	CHECKED Peter Kang
SPECIFICATIONS	BY Jarvis Mahe	PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 12

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 1000020424

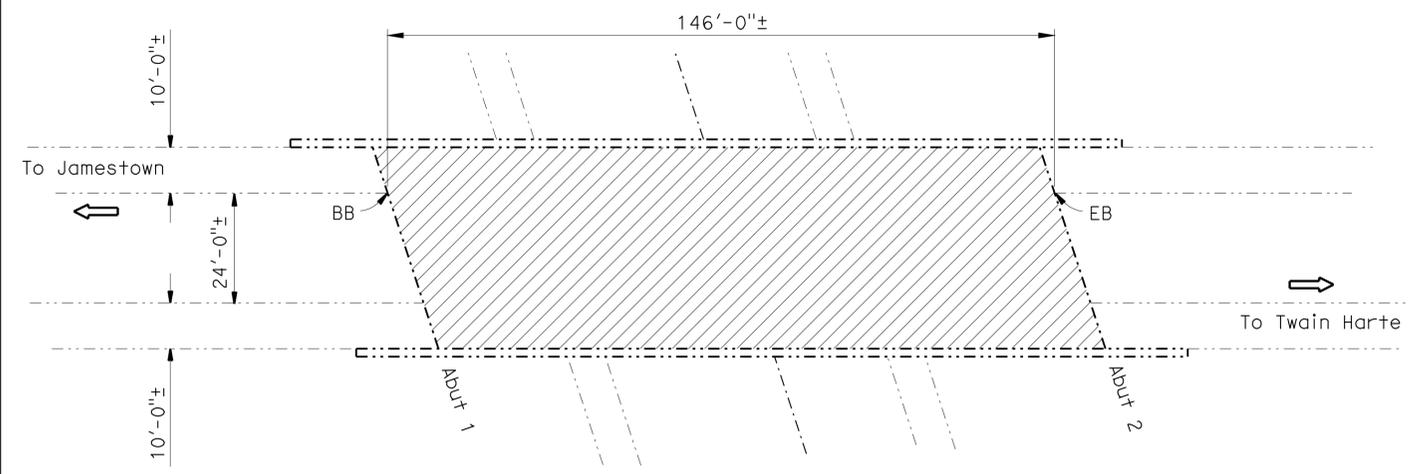
CONTRACT NO.: 10-0W0901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-25-11 6-14-11 7-06-11 10-06-11	12	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	22	24
 REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
					
<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>					

NOTES: (APPLY TO THIS SHEET ONLY)
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.



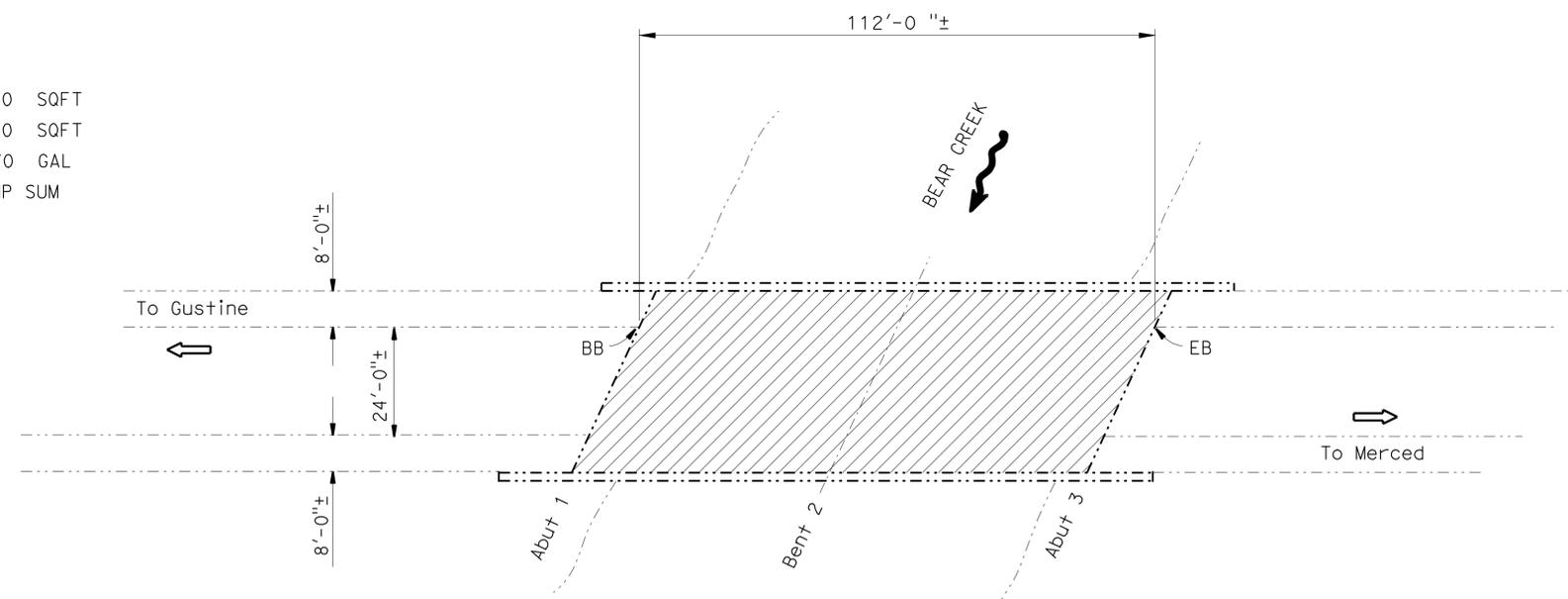
HESS AVENUE UNDERCROSSING

Br No. 32-0068, ROUTE 108, PM R3.42
 1" = 20'

QUANTITIES

HESS AVENUE UC #32-0068

PREPARE CONCRETE BRIDGE DECK SURFACE	6,430	SQFT
TREAT BRIDGE DECK	6,430	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	70	GAL
PUBLIC SAFETY PLAN		LUMP SUM



BEAR CREEK

Br No. 39-0095, ROUTE 140, PM 32.95
 1" = 20'

QUANTITIES

BEAR CREEK BR #39-0095

PREPARE CONCRETE BRIDGE DECK SURFACE	4,480	SQFT
TREAT BRIDGE DECK	4,480	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	50	GAL
PUBLIC SAFETY PLAN		LUMP SUM


 DESIGN ENGINEER 10-20-11

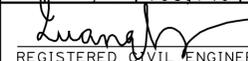
DESIGN	BY Quang Vo	CHECKED Peter Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED Peter Kang	LAYOUT	BY David Kish
QUANTITIES	BY Quang Vo	CHECKED Peter Kang	SPECIFICATIONS	BY Jarvis Mahe
				PLANS AND SPECS COMPARED Jarvis Mahe

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

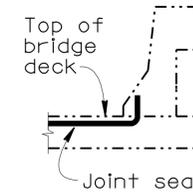
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 5, 99, 108 & 140 BRIDGES
GENERAL PLAN NO. 13

NOTES:
 ----- Indicates existing.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	23	24
 REGISTERED CIVIL ENGINEER			10-20-11	DATE	
2-13-12 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>					

JOINT SEAL TABLE							
BRIDGE NUMBER	BRIDGE NAME	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
		Abut	BB				
38-0107R	ORESTIMBA CREEK	Abut 1	BB	* 1.0	43.5	No	12
		Abut 7	EB	* 1.0	43.5	No	12
38-0119R	DEL PUERTO CANYON ROAD UC	Abut 1	BB	0.5	40	No	12
		Abut 4	EB	0.5	40	No	12
38-0122R/L	DEL PUERTO CREEK ROAD UC	Abut 1R	BB	0.5	40	No	12
		Abut 4R	EB	0.5	40	No	12
		Abut 1L	BB	0.5	40	No	12
		Abut 4L	EB	0.5	40	No	12
38-0125L	INGRAM CREEK ROAD UC	Abut 1	BB	0.5	39.50	No	12
		Abut 4	EB	0.5	39.50	No	12
38-0126R/L	INGRAM CREEK	Abut 1R	BB	0.5	40.5	No	12
		Abut 4R	EB	0.5	40.5	No	12
		Abut 1L	BB	0.5	40.5	No	12
		Abut 4L	EB	0.5	40.5	No	12
38-0127R	HAMILTON ROAD UC	Abut 1	BB	0.5	47	No	12
		Abut 4	EB	0.5	47	No	12
39-0128R	WEST ATWATER OH	Abut 1	BB	* 1.0	79	No	12
		Abut 7	EB	* 1.0	79	No	12
38-0053L	LANDER AVENUE SEPARATION	Abut 1	BB	* 1.0	57.5	No	12
		Abut 2	EB	* 1.0	57.5	No	12
38-0144L	NORTH TURLOCK OH	Abut 1	BB	* 1.0	93	No	12
		Abut 4	EB	* 1.0	113	No	12
38-0145L	TAYLOR ROAD UC	Abut 1	BB	* 1.0	60	No	12
		Abut 2	EB	* 1.0	60	No	12



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.

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 curb or rail joint.
- For details not shown, see 

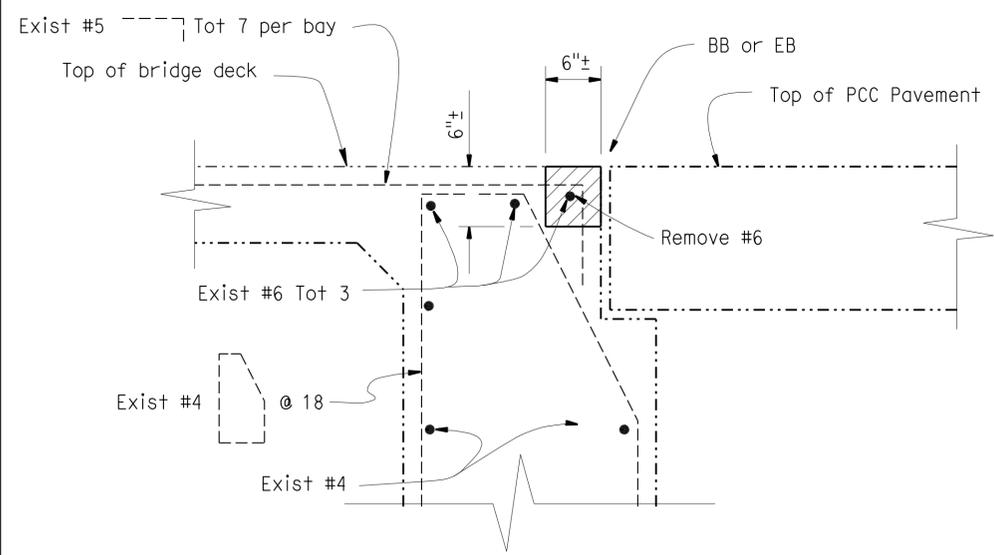
NOTE: * All seals shall be Type B

LEGEND:

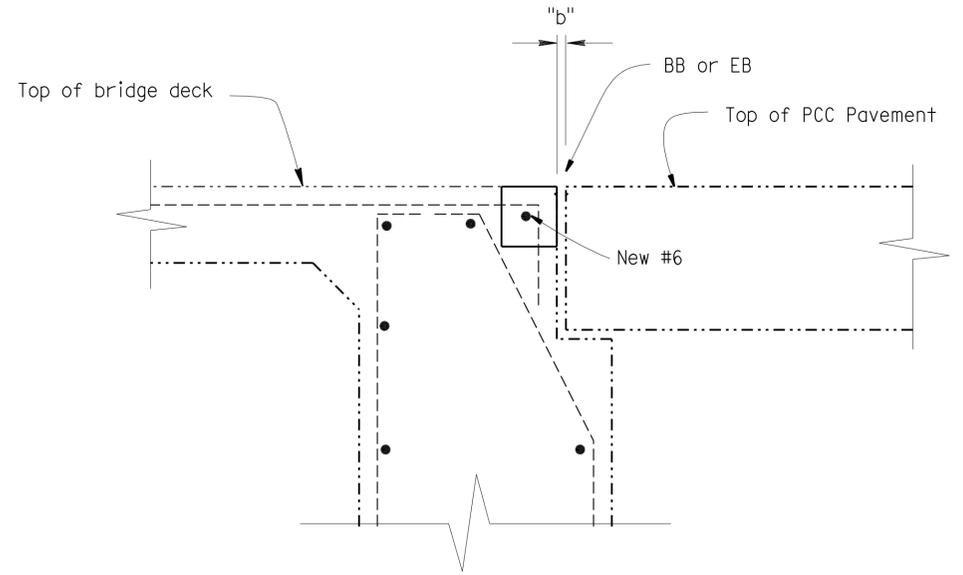
- BW = Abutment backwall joint
- BB = Begin Bridge
- EB = End Bridge

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Quang Vo	CHECKED Peter Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTE 5, 99, 108 & 140 BRIDGES JOINT SEAL DETAILS NO. 1
	DETAILS	BY David Kish	CHECKED Peter Kang			
	QUANTITIES	BY Quang Vo	CHECKED Peter Kang			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3488 PROJECT NUMBER & PHASE: 1000020424	CONTRACT NO.: 10-0W0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES: 3-25-11, 6-14-11, 7-08-11, 8-04-11						SHEET 14 OF 15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta, Tuo	5, 99, 108, 140	Var	24	24
REGISTERED CIVIL ENGINEER			DATE	10-20-11	
PLANS APPROVAL DATE			2-13-12		
<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>					



EXISTING



RECONSTRUCTION

SECTION A-A

NO SCALE

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove existing concrete and joint seal. Retain existing reinforcing steel (except where noted otherwise).

"b" Reconstructed gap width as determined by the Engineer.

TEMPORARY DECK PLATE		
MOMENT DEMAND/FOOT ($\frac{\text{kip-ft}}{\text{ft}}$)	BOLT SHEAR/FOOT ($\frac{\text{kip}}{\text{ft}}$)	BOLT TENSION (Kip)
3	3	4

- NOTES:
1. Plate deflection shall not exceed $s/300$. (s = span [FT])
 2. Minimum plate thickness shall be equal or greater than $7/8$ "
 3. Maximum anchorage spacing shall not exceed 24".
 4. Anchorage washer shall be neoprene or similar.

**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3600$ psi
 $n = 8$

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Quang Vo	CHECKED Peter Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTE 5, 99, 108 & 140 BRIDGES JOINT SEAL DETAILS NO. 2
	DETAILS	BY David Kish	CHECKED Peter Kang			
	QUANTITIES	BY Quang Vo	CHECKED Peter Kang			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3488 PROJECT NUMBER & PHASE: 1000020424	CONTRACT NO.: 10-0W0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3		REVISION DATES: 5-25-11, 8-04-11 SHEET 15 OF 15

USERNAME => s121614 DATE PLOTTED => 15-FEB-2012 TIME PLOTTED => 09:03