

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	PAVEMENT DELINEATION QUANTITIES
6	SUMMARY OF QUANTITIES

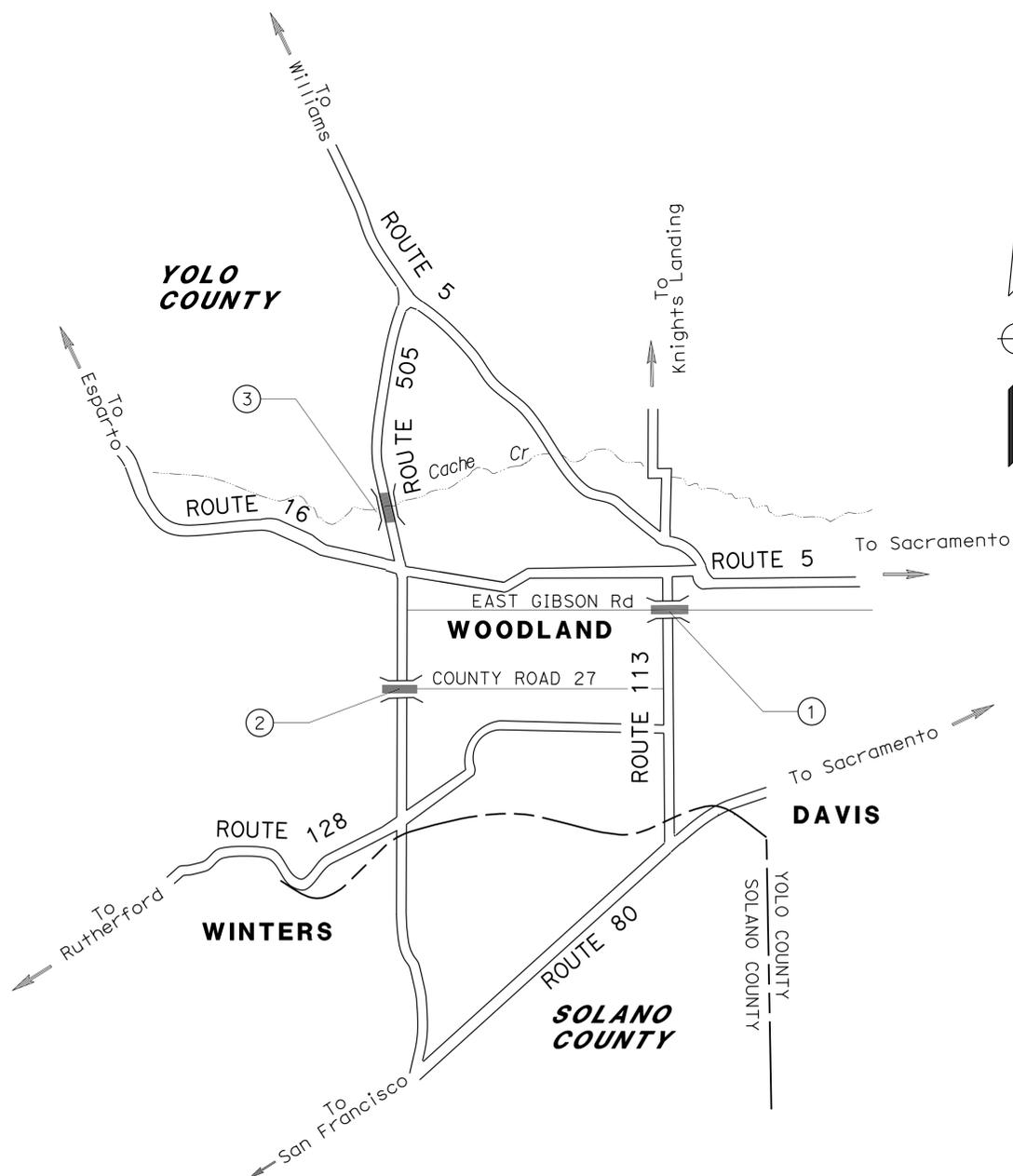
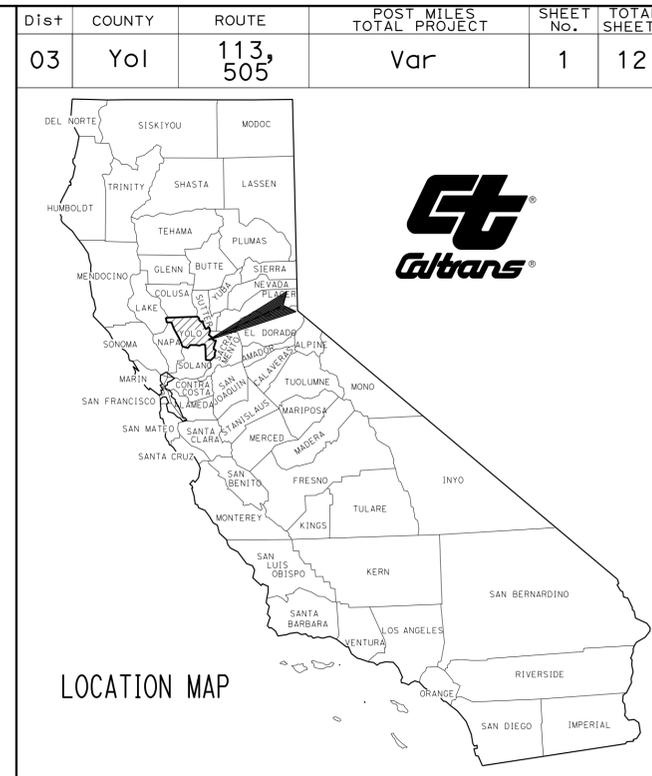
STRUCTURE PLANS

7-12	ROUTE 113, 505 BRIDGES
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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 YOLO COUNTY
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2015



LOCATIONS OF CONSTRUCTION

Loc No. ①	COUNTY	ROUTE	PM	BRIDGE No.	STRUCTURE NAME
1	Yol	113	R9.22	22-0128	EAST GIBSON ROAD OC
2	Yol	505	6.53	22-0162	COUNTY ROAD 27 OC
3	Yol	505	11.67	22-0101R	CACHE CREEK

PROJECT MANAGER
JOYCE LOFTUS

DESIGN MANAGER
JOYCE LOFTUS

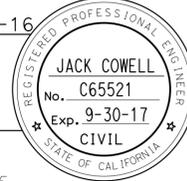
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Jack R. Cowell Jr. 9-6-16
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

September 6, 2016
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.	03-0G4804
PROJECT ID	0315000225

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	113, 505	Var	2	12

Jack R. Cowell Jr. 9-6-16
 REGISTERED CIVIL ENGINEER DATE
 9-6-16
 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.

REGISTERED PROFESSIONAL ENGINEER
JACK COWELL
No. 65521
Exp. 9-30-17
CIVIL

NOTE:

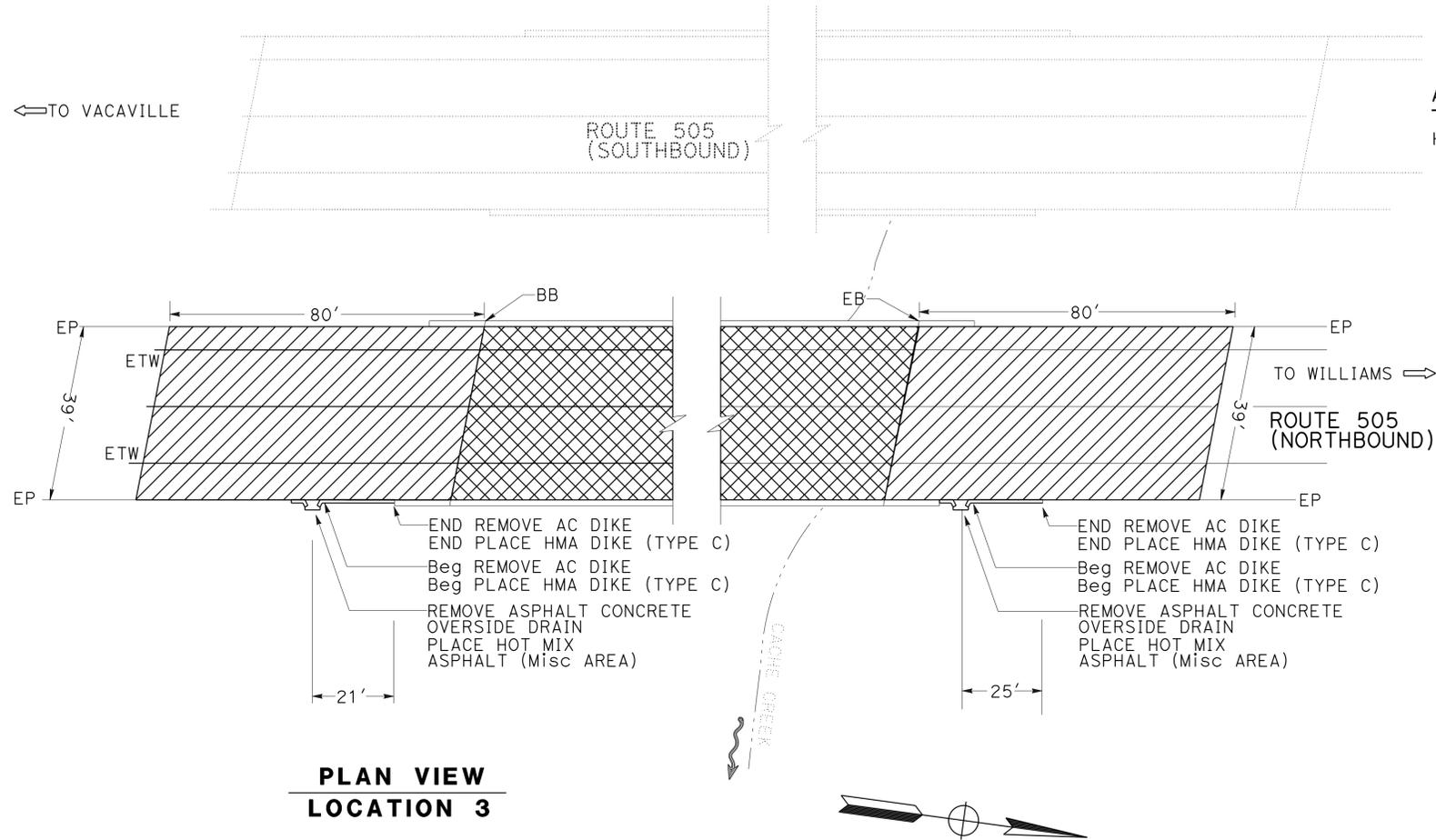
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE SHEETS.

LEGEND:

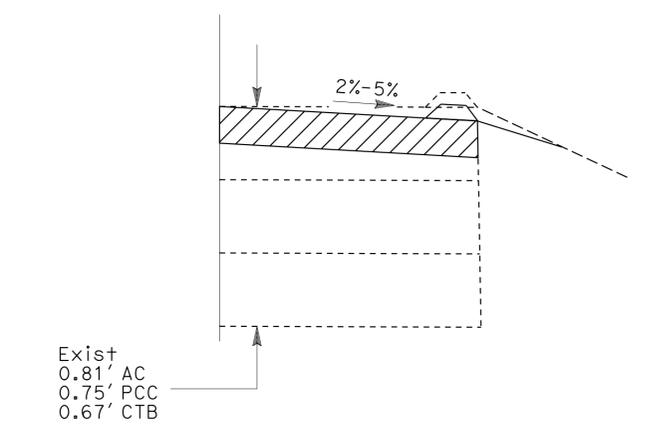
-  COLD PLANE ASPHALT CONCRETE PAVEMENT AND PLACE HMA MATERIAL
-  POLYESTER CONCRETE OVERLAY (SEE STRUCTURE PLANS)

ABBREVIATION:

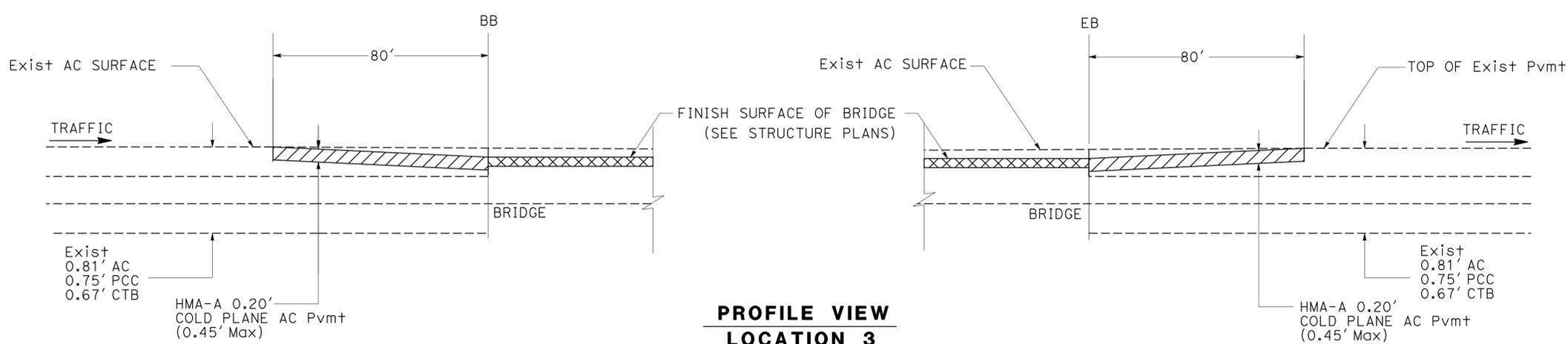
HMA-A HOT MIX ASPHALT (TYPE A)



**PLAN VIEW
LOCATION 3
BRIDGE APPROACH DETAIL**



**AC PAVEMENT CROSS SECTION
AT OVERSIDE DRAIN TYPICAL**



**PROFILE VIEW
LOCATION 3
HMA PAVEMENT CONFORM**

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Maintenance Design
 Caltrans

FUNCTIONAL SUPERVISOR: JOYCE LOFTUS
 CHECKED BY: JOHN WELCH
 DESIGNED BY: JACK COWELL
 REVISIONS: REVISOR: DATE: REVISION: DATE:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

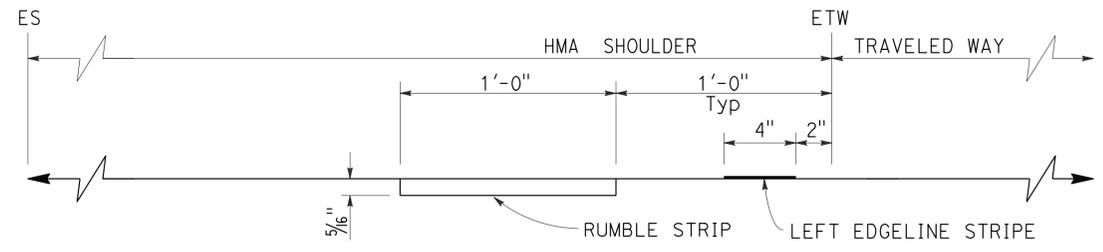
FUNCTIONAL SUPERVISOR
 JOYCE LOFTUS

CALCULATED-DESIGNED BY
 CHECKED BY

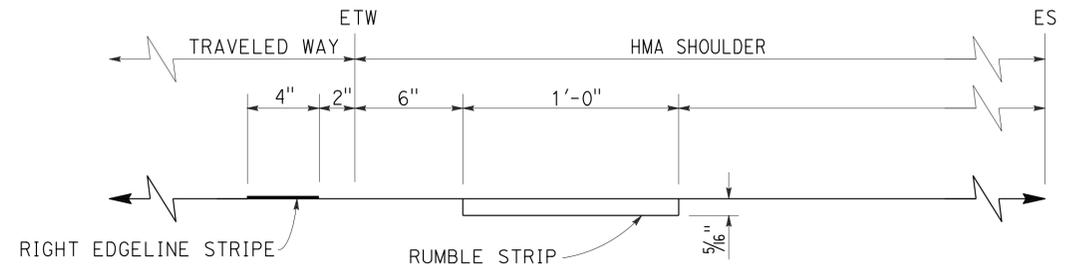
JACK COWELL
 JOHN WELCH

REVISED BY
 DATE REVISED

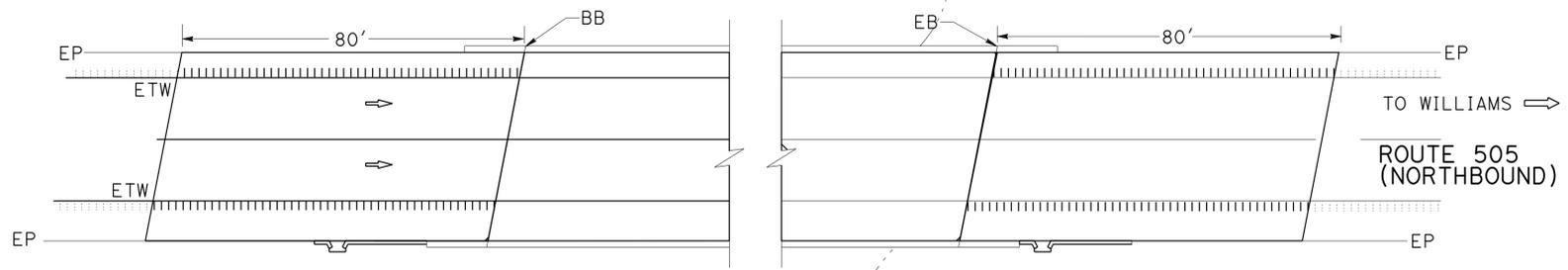
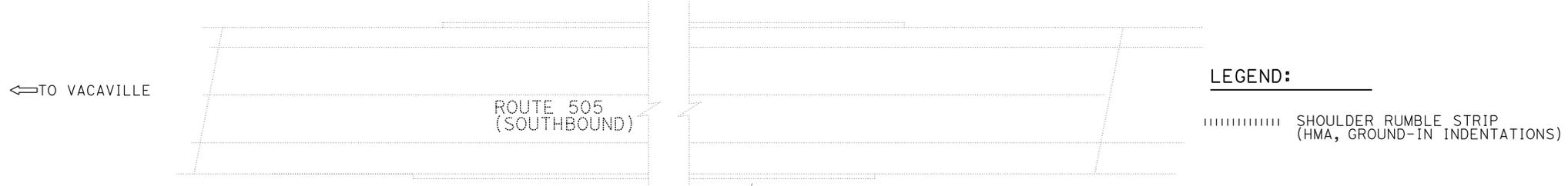
NOTE:
 1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE SHEETS.



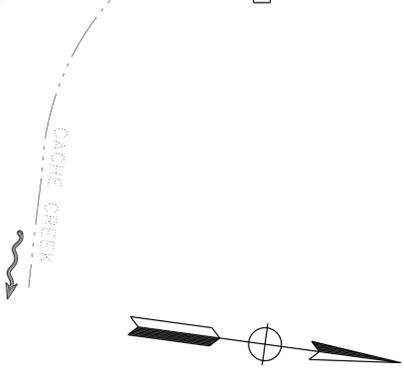
**RUMBLE STRIP PLACEMENT
 LEFT OF DIRECTION OF TRAVEL**



**RUMBLE STRIP PLACEMENT
 RIGHT OF DIRECTION OF TRAVEL**



**PLAN VIEW
 LOCATION 3**



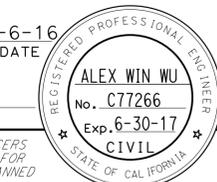
CONSTRUCTION DETAILS
 NO SCALE
C-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	113, 505	Var	3	12

Jack R. Cowell Jr. REGISTERED CIVIL ENGINEER DATE 9-6-16
 9-6-16 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.

JACK COWELL
 No. 65521
 Exp. 9-30-17
 CIVIL
 STATE OF CALIFORNIA

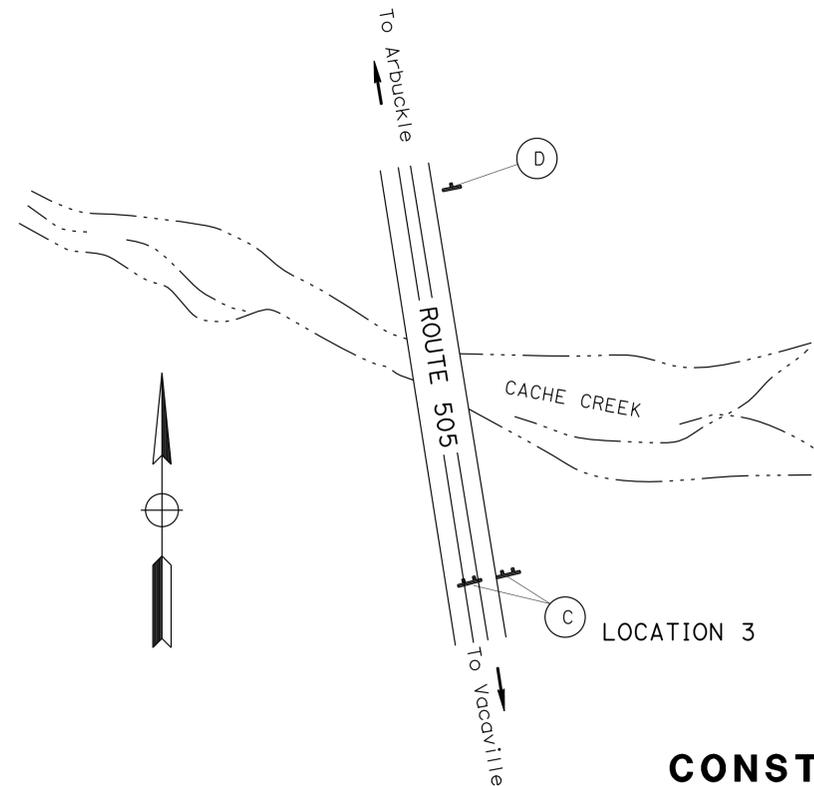
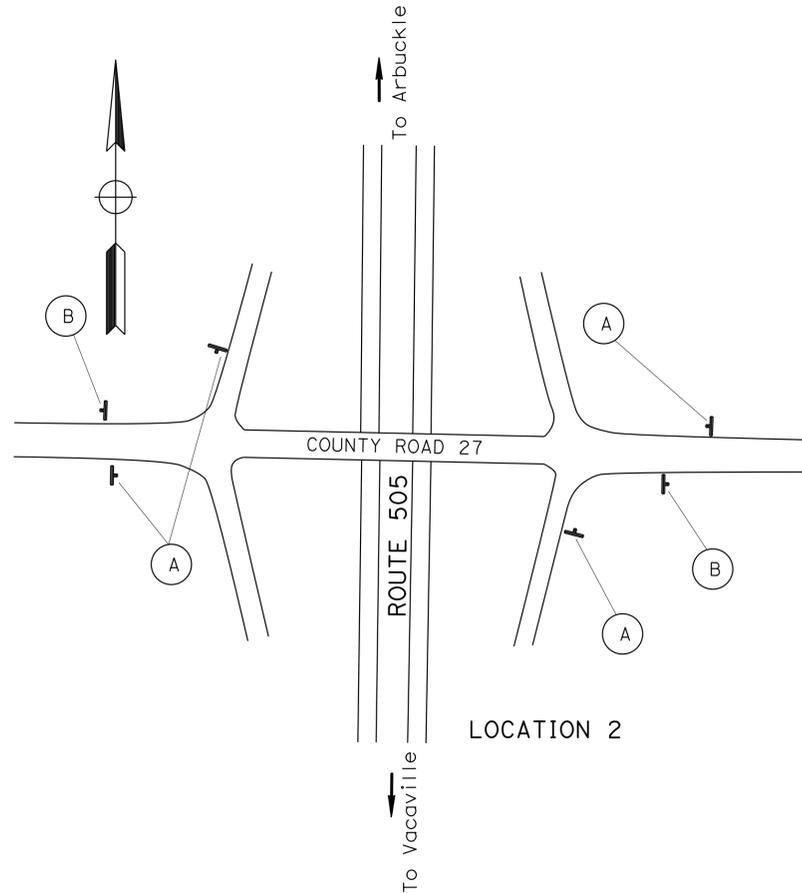
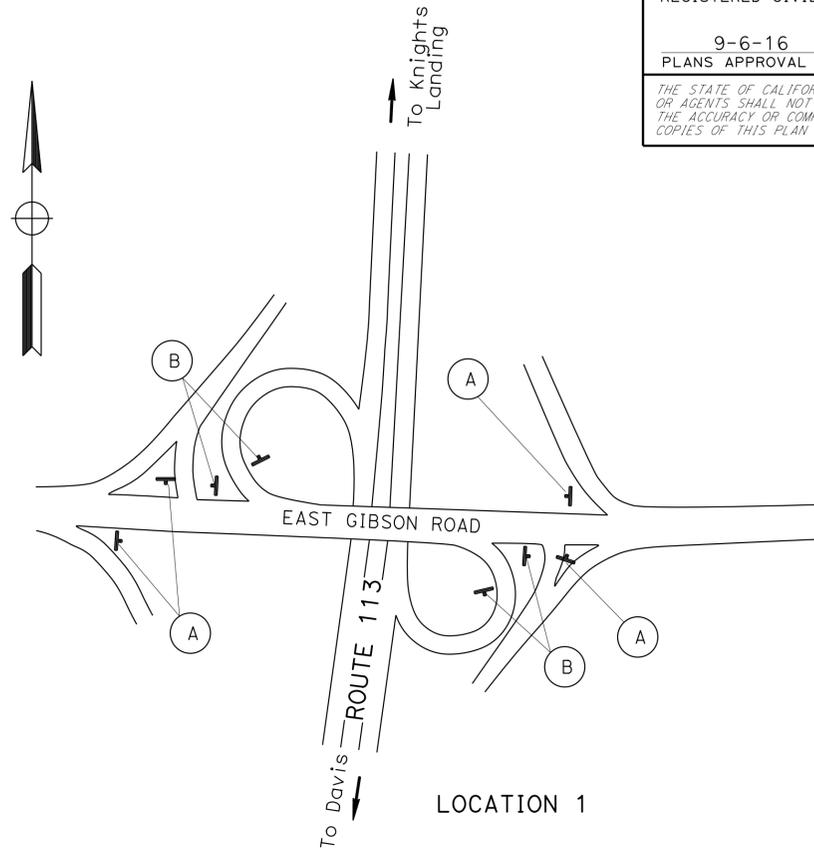
LAST REVISION | DATE PLOTTED => 07-SEP-2016 08-18-16 TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	113, 505	Var	4	12
 REGISTERED CIVIL ENGINEER DATE 9-6-16					
9-6-16 PLANS APPROVAL DATE			<small>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.</small>		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	8
B	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	6
C	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	2
D	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1

NOTE:
1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	113, 505	Var	5	12

 9-6-16
 REGISTERED CIVIL ENGINEER DATE

9-6-16
 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.

REGISTERED PROFESSIONAL ENGINEER
 ALEX WIN WU
 No. C77266
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

PAVEMENT DELINEATION QUANTITIES

LOCATION	4" PERMANENT TAPE TRAFFIC STRIPE			4" PERMANENT TAPE TRAFFIC STRIPE (BROKEN 36-12)	6" PERMANENT TAPE TRAFFIC STRIPE	6" PERMANENT TAPE TRAFFIC STRIPE (BROKEN 8-4)
	DETAIL NUMBER			DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER
	22	27B	25	12	39	39A
	LF	LF	LF	LF	LF	LF
LOCATION 1				240	94	
LOCATION 2	396	396				
LOCATION 3		760	760	760		
SUBTOTAL	396	1156	760	760	240	94
TOTAL	2312			760	240	94

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION	DESCRIPTION	LF
LOCATION 1	BIKE LANE	423
LOCATION 2	EDGE LINE	396
	TOTAL	819

REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)

LOCATION	DESCRIPTION	LF
LOCATION 1	CENTERLINE	428
LOCATION 2	CENTERLINE	396
	TOTAL	824

PAVEMENT MARKER

LOCATION	DETAIL NUMBER	RETROREFLECTIVE			NON-REFLECTIVE	
		TYPE D	TYPE G	TYPE H	TYPE AY	TYPE A
		EA	EA	EA	EA	EA
LOCATION 1	23, 10	20	10		90	54
LOCATION 2	22	18				
LOCATION 3	25, 12		17	17		
SUBTOTAL		38	27	17	90	54
TOTAL		82			144	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 CALCULATED/DESIGNED BY: ALEX WU
 CHECKED BY: JOHN KEBER
 REVISED BY: DATE
 REVISIONS:



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	113, 505	Var	6	12

Jack R. Cowell Jr.
 REGISTERED CIVIL ENGINEER DATE 9-6-16
 PLANS APPROVAL DATE 9-6-16

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ROADWAY QUANTITIES

Loc No. (X)	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	STRUCTURE NAME	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE A)	TACK COAT	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
						SQYD	TON	TON	STA
3	YOLO	505	11.67	22-0101R	CACHE CREEK	700	92.35	0.15	4
FROM MISCELLANEOUS HMA TABLE							2.06		
TOTAL						700	94.41	0.15	4

TEMPORARY DRAINAGE INLET PROTECTION

LOCATION No.	TEMPORARY DRAINAGE INLET PROTECTION
	EA
2	2
3	2
TOTAL	4

MISCELLANEOUS HMA TABLE

POST MILE/LOCATION	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE (TYPE C)	REMOVE ASPHALT CONCRETE OVERSIDE DRAIN	PLACE HOT MIX ASPHALT (Misc AREA)	HOT MIX ASPHALT (TYPE A)*
	LF	LF	EA	SQYD	TON
PM 11.72 Rt	21	21			.08
PM 11.84 Rt	25	25			.10
PM 11.72 Rt (AT OSD)			1	2.0	.94
PM 11.84 Rt (AT OSD)			1	2.0	.94
SUBTOTAL	46	46	2	4.0	2.06
TOTAL	46	46	2	4.0	

* SEE ROADWAY QUANTITIES TABLE FOR PROJECT TOTALS.

SUMMARY OF QUANTITIES

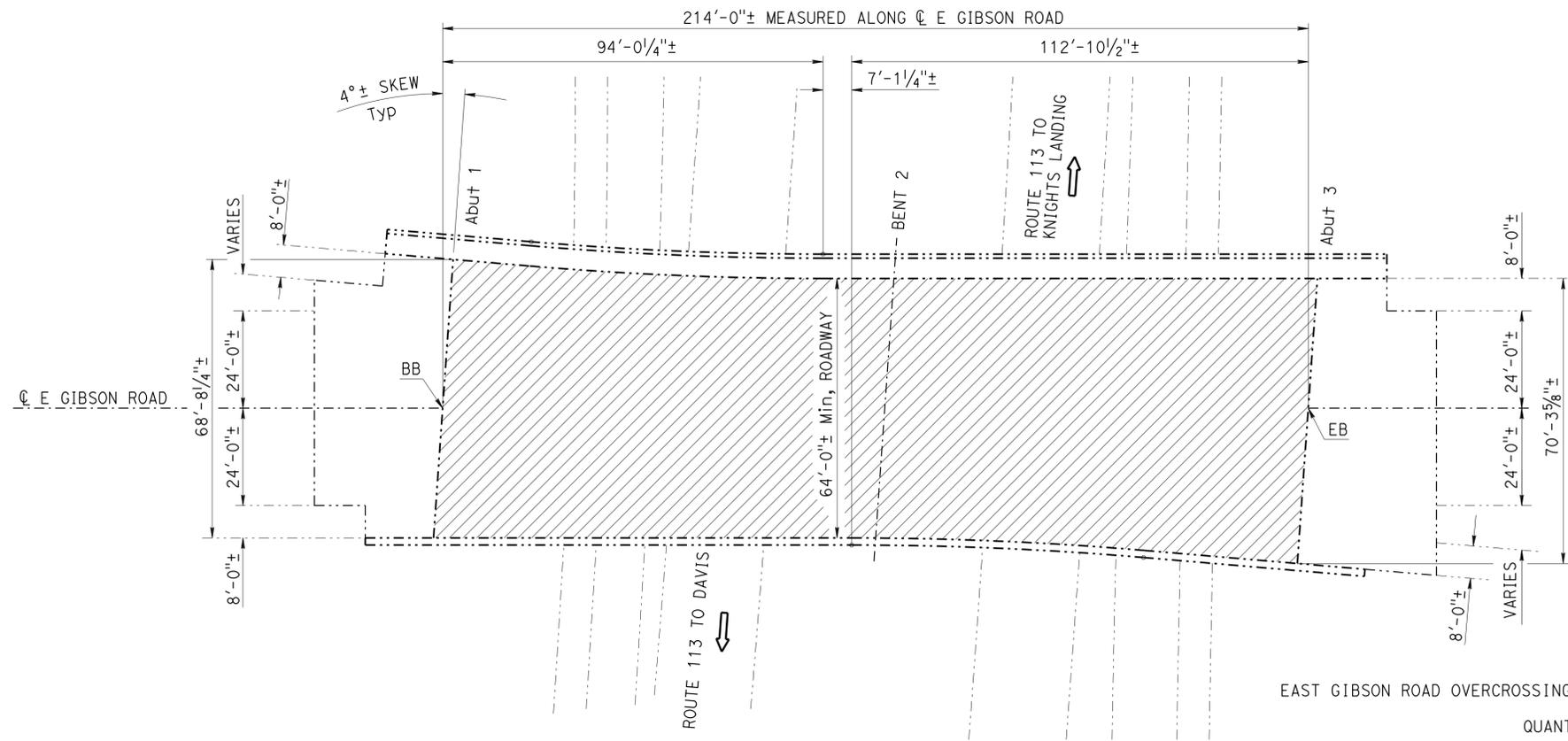
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
 Jack Cowell
 John Welch
 Joyce Loftus



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yo1	113,505	Var	7	12

Peter B. Kang 8-3-16
 REGISTERED CIVIL ENGINEER DATE
 9-6-16
 PLANS APPROVAL DATE
 PETER B. KANG
 No. C 70336
 Exp. 9-30-16
 CIVIL
 STATE OF CALIFORNIA
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EAST GIBSON ROAD OVERCROSSING BR No. 22-0128

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	14,273	SQFT
TREAT BRIDGE DECK	14,273	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	159	GAL

EAST GIBSON ROAD OVERCROSSING
 Br No. 22-0128, ROUTE 113, Yo1, PM R9.22
 1" = 20'

NOTES: (APPLY TO THIS SHEET ONLY)

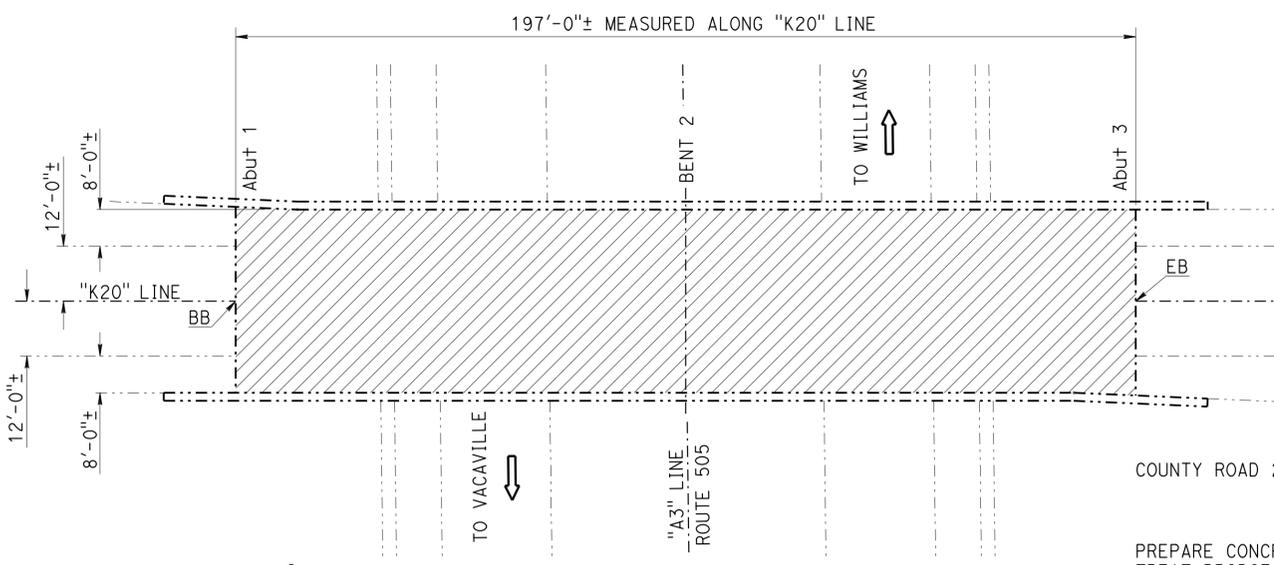
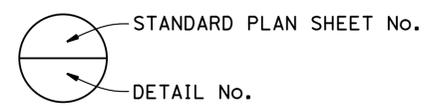
Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	JOINT SEAL DETAILS NO. 1
4	JOINT SEAL DETAILS NO. 2
5	JOINT SEAL DETAILS NO. 3
6	MISCELLANEOUS DETAILS

STANDARD PLANS 2015

SHEET NO.	TITLE
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



COUNTY ROAD 27 OVERCROSSING BR No. 22-0162

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	7,880	SQFT
TREAT BRIDGE DECK	7,880	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	88	GAL

COUNTY ROAD 27 OVERCROSSING
 Br No. 22-0162, ROUTE 505, Yo1, PM 6.53
 1" = 20'

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

Matthew W. Lee 8-3-16
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED P. Kang			
DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
QUANTITIES	BY M. Hashimoto	CHECKED P. Kang	SPECIFICATIONS	BY Elaheh Mansoubi	PLANS AND SPECS COMPARED Elaheh Mansoubi

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 113, 505 BRIDGES
GENERAL PLAN NO. 1

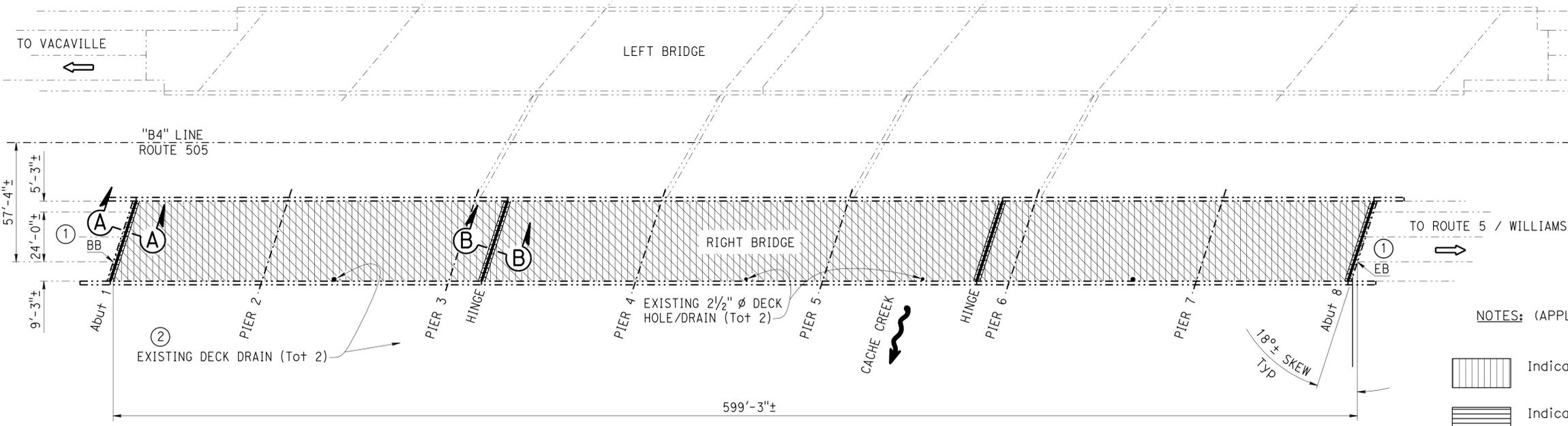
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	113,505	Var	8	12

Peter B. Kang 8-3-16
 REGISTERED CIVIL ENGINEER DATE

9-6-16
 PLANS APPROVAL DATE

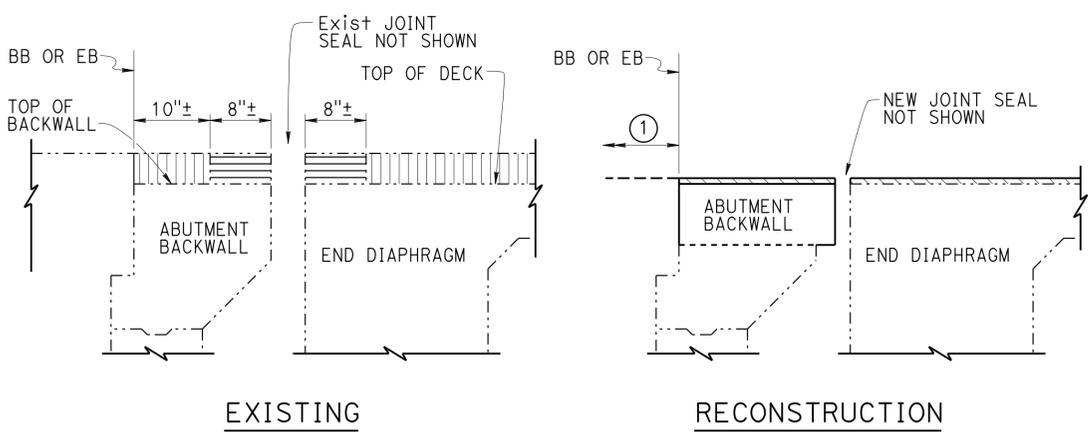
PETER B. KANG
 No. C 70336
 Exp. 9-30-16
 CIVIL
 STATE OF CALIFORNIA

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CACHE CREEK
 Br No. 22-0101R, Rte 505, Yol, PM 11.67
 1" = 30'

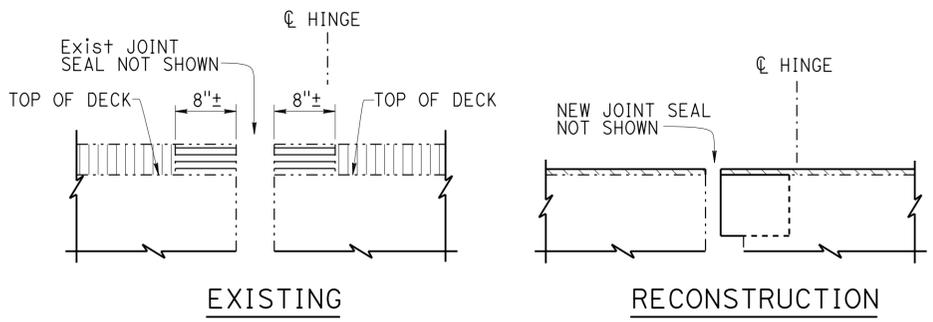
- NOTES: (APPLY TO THIS SHEET ONLY)**
- Indicates limits of remove existing 3/2± AC overlay.
 - Indicates limits of remove existing expansion dam.
 - Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and place rapid setting concrete (patch) as shown on the "Joint And Deck Repair Detail" on "JOINT SEAL DETAILS NO. 3" sheet. For additional information for new polyester concrete overlay, see "Bridge Profile Diagram" on "MISCELLANEOUS DETAILS" sheet.
 - Indicates limits of clean expansion joint and install joint seal.
 - ① For approach roadway taper, see "Roadway Plans".
 - ② Taper new polyester concrete overlay around deck drains, see "Deck Drain Taper Details" on "MISCELLANEOUS DETAILS" sheet.



SECTION A-A
 1" = 1'-0"

- NOTES:**
- Abutment 1 shown, Abutment 8 similar.
 - For Abutment joint seal replacement, see "JOINT SEAL DETAILS NO. 1" sheet.

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



SECTION B-B
 1" = 1'-0"

- NOTES:**
- Hinge Pier 3 shown, Hinge Pier 6 similar.
 - For "Hinge joint seal replacement, see "JOINT SEAL DETAILS NO. 2" sheet.

CACHE CREEK		BR NO. 22-0101R
QUANTITIES		
RAPID SETTING CONCRETE (PATCH)	58	CF
REMOVE ASPHALT CONCRETE SURFACING	23,071	SQFT
REMOVE CONCRETE DECK SURFACE	13	SQFT
REMOVE UNSOUND CONCRETE	58	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	23,071	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	4,500	CF
PLACE POLYESTER CONCRETE OVERLAY	23,071	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	4	CY
CLEAN EXPANSION JOINT	164	LF
JOINT SEAL (MR 1")	82	LF
JOINT SEAL (MR 2")	82	LF
BAR REINFORCING STEEL (BRIDGE)	1,025	LB

DESIGN ENGINEER 8-3-16

DESIGN	BY M. Hashimoto	CHECKED P. Kang		
DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
QUANTITIES	BY M. Hashimoto	CHECKED P. Kang	SPECIFICATIONS	BY Elaheh Mansoubi

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

ROUTE 113, 505 BRIDGES
GENERAL PLAN NO. 2

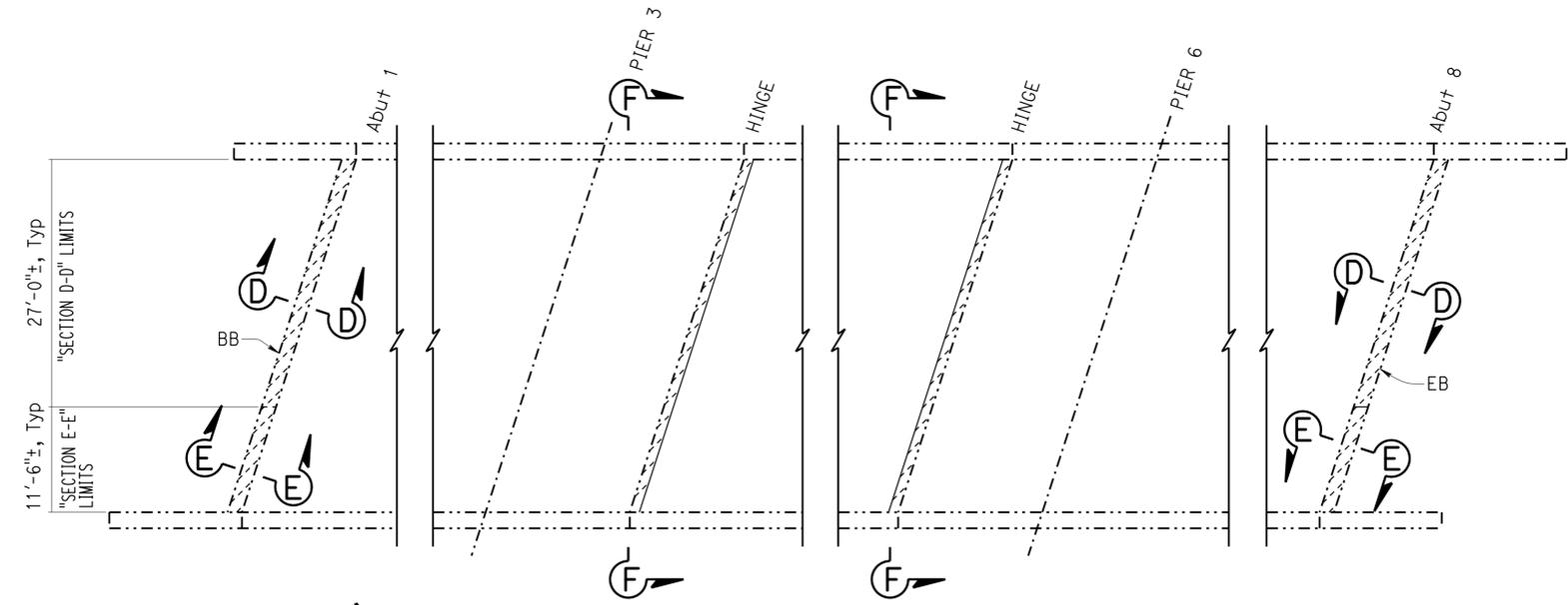
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	113,505	Var	9	12
<i>Peter B. Kang</i> REGISTERED CIVIL ENGINEER			8-3-16 DATE	PETER B. KANG No. C 70336 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA	
9-6-16 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents 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 bridge removal (portion).
-  Indicates limits of structural concrete, bridge.

For "Typical Section F-F", see "JOINT SEAL DETAILS NO. 2" sheet.

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



PLAN (JOINT SEAL REPLACEMENT)

1" = 10'
(Br No. 22-0101R)

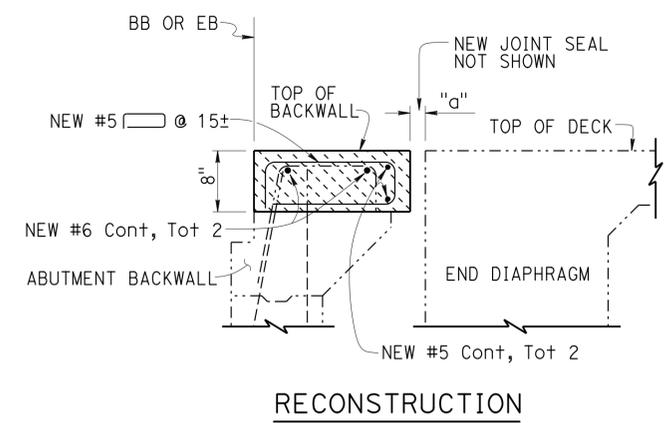
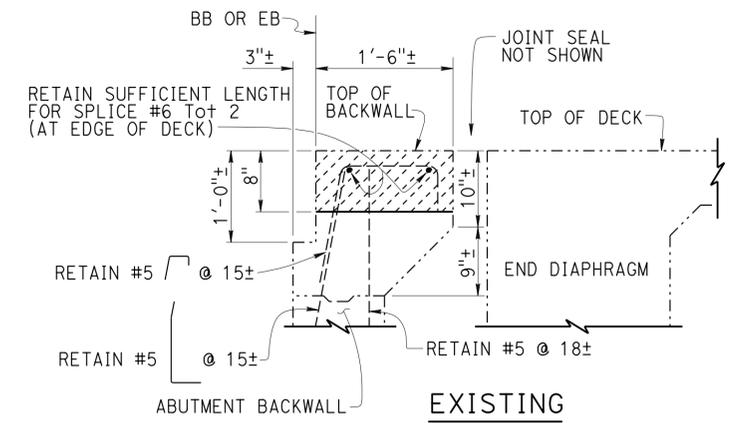
TEMPORARY DECK PLATE LOAD CRITERIA

MOMENT DEMAND/FOOT (kips-ft/ft)	BOLT SHEAR/FOOT (kips/ft)	BOLT TENSION (kips) / bolt
6.5	8	8

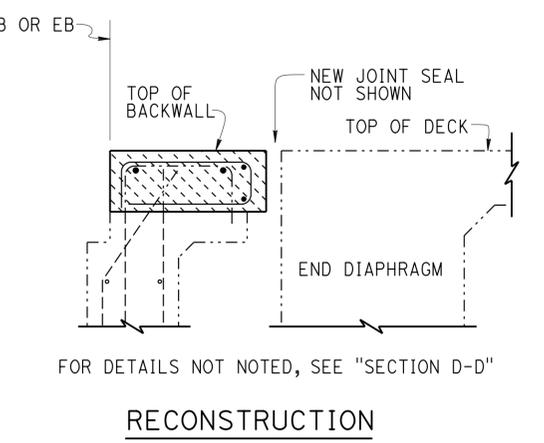
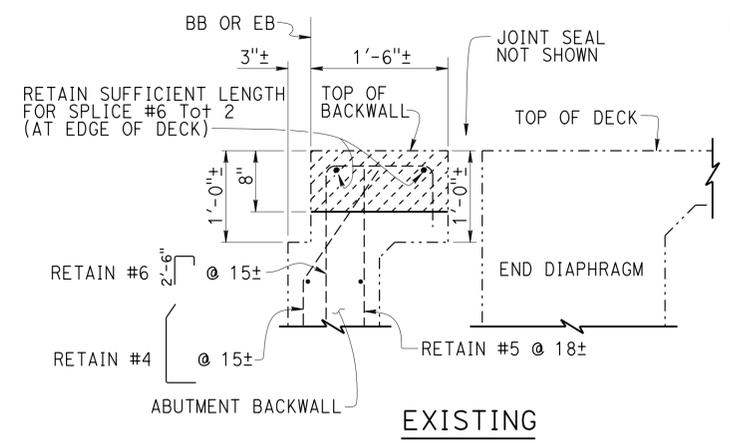
Plate deflection shall not exceed $s/300$ (s = span of plate).
Maximum anchor bolt spacing = 1'-0".

**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 permit design load.
- REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3,600$ psi
 $n = 9$



SECTION D-D
1" = 1'-0"

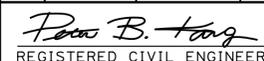
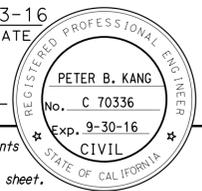


SECTION E-E
1" = 1'-0"

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

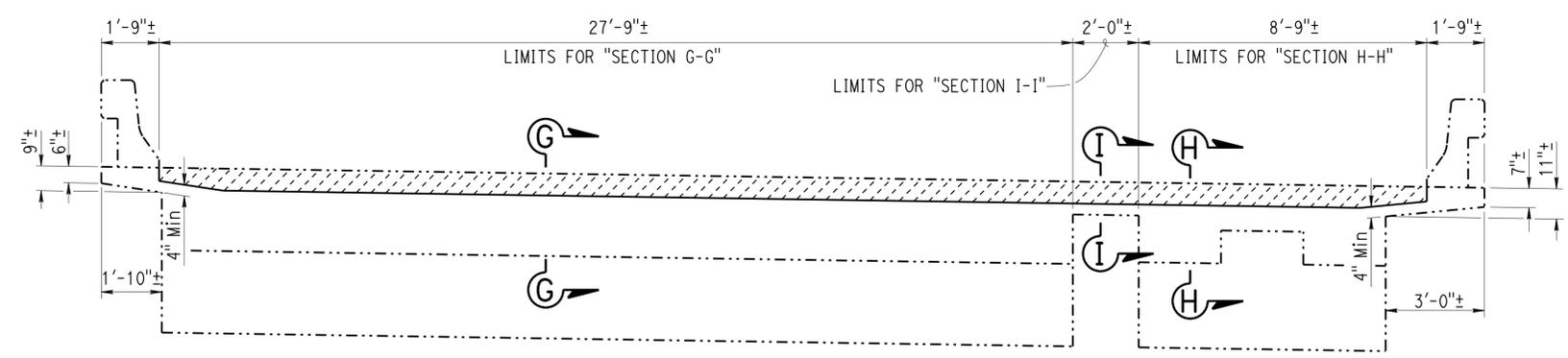
NOTE: Existing overlay and new overlay not shown for clarity.

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY M. Hashimoto	CHECKED P. Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 113, 505 BRIDGES JOINT SEAL DETAILS NO. 1	
	DETAILS	BY Dale Kubochi	CHECKED P. Kang			POST MILE	VARIES		
	QUANTITIES	BY M. Hashimoto	CHECKED P. Kang						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3488 PROJECT NUMBER & PHASE: 0315000225 1	CONTRACT NO.: 03-0G4801	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 7-18-16 4-28-16 6-13-16	SHEET 3 OF 6

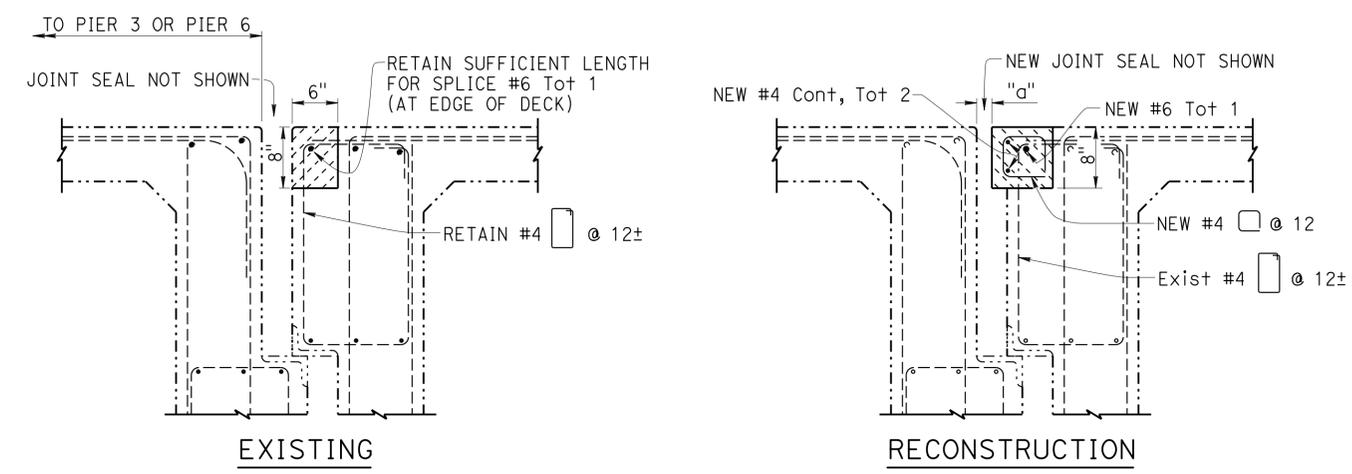
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	113,505	Var	10	12
 REGISTERED CIVIL ENGINEER			8-3-16 DATE		
9-6-16 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

NOTES: (APPLY TO THIS SHEET ONLY)

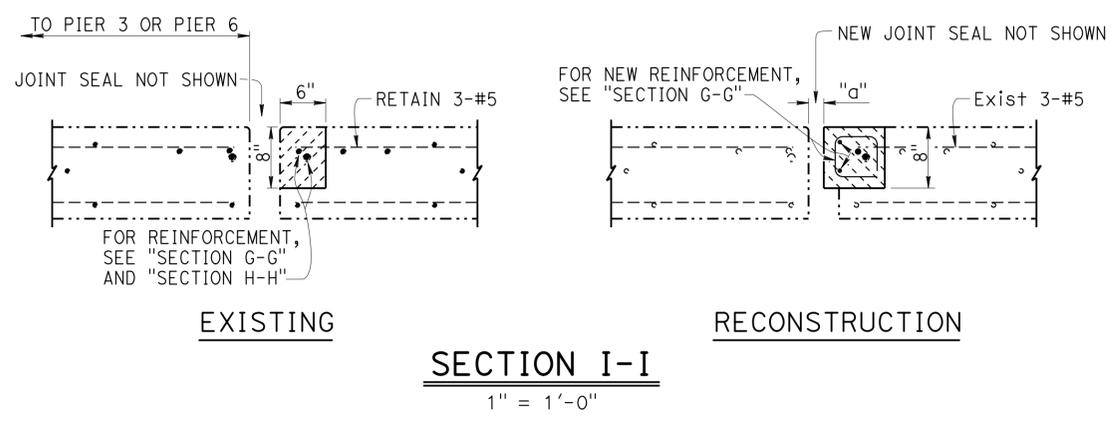
-  Indicates limits of bridge removal (portion).
-  Indicates limits of structural concrete, bridge.
- Existing overlay and new overlay not shown for clarity.
- "a" Reconstructed gap width as directed by the Engineer.



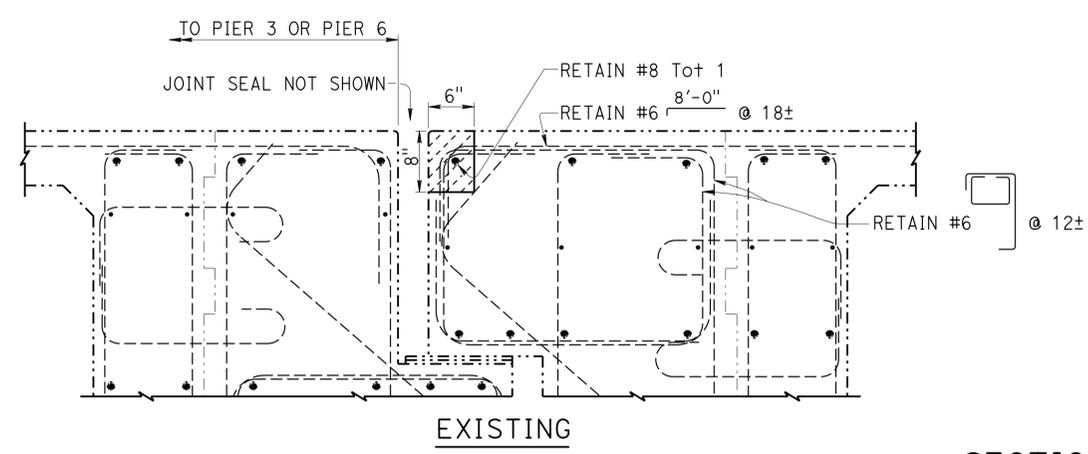
TYPICAL SECTION F-F
3/8" = 1'-0"



SECTION G-G
1" = 1'-0"



SECTION I-I
1" = 1'-0"



SECTION H-H
1" = 1'-0"

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

DESIGN	BY M. Hashimoto	CHECKED P. Kang
DETAILS	BY Dale Kubochi	CHECKED P. Kang
QUANTITIES	BY M. Hashimoto	CHECKED P. Kang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 113, 505 BRIDGES
JOINT SEAL DETAILS NO. 2

USERNAME => 6119538 DATE PLOTTED => 07-SEP-2016 TIME PLOTTED => 12:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	113,505	Var	11	12

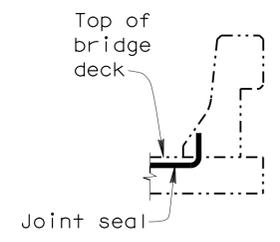
Peter B. Kang
 REGISTERED CIVIL ENGINEER
 DATE: 8-3-16
 PLANS APPROVAL DATE: 9-6-16

PETER B. KANG
 No. C 70336
 Exp. 9-30-16
 CIVIL
 STATE OF CALIFORNIA

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JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
CACHE CREEK	22-0101R	Abut 1	BW	* 1	41	NO	12
		Hinge near Pier 3	H	* 2	41	NO	30
		Hinge near Pier 6	H	* 2	41	NO	30
		Abut 8	BW	* 1	41	NO	12

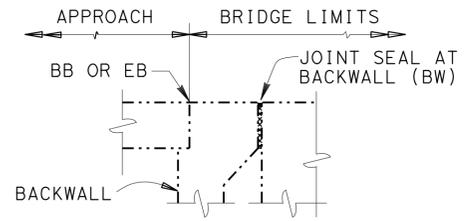
LEGEND:
 BW - Abutment backwall joint
 H - Hinge Joint
 * - Type B Seal only



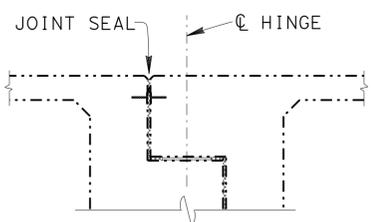
BARRIER RAIL
JOINT SEAL AT LOW SIDE OF DECK

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 must 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 B6-21



ABUTMENT WITH BACKWALL

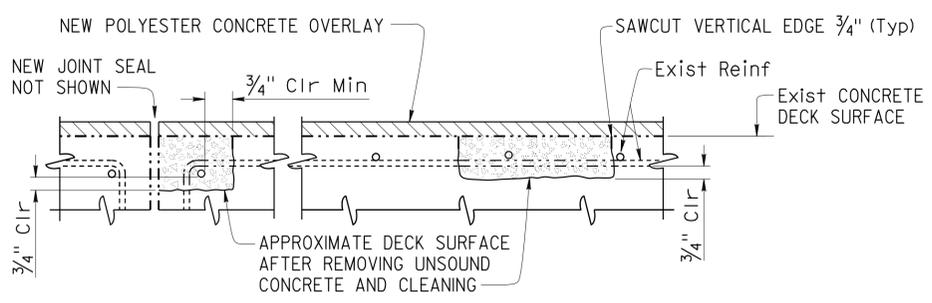


HINGE

JOINT SEAL LOCATION

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
CACHE CREEK	22-0101R	1	3

Locations to be determined by the Engineer.
 For details see "Joint And Deck Repair Detail".



JOINT AND DECK REPAIR DETAIL

Note: Locations to be determined by the Engineer.
 Reinforcement may be encountered during deck concrete removal.
 NO SCALE

NOTE:
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DESIGN BY M. Hashimoto CHECKED P. Kang DETAILS BY Dale Kubochi CHECKED P. Kang QUANTITIES BY M. Hashimoto CHECKED P. Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTE 113, 505 BRIDGES JOINT SEAL DETAILS NO. 3
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0315000225 1 CONTRACT NO.: 03-0G4801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 7-18-16, 8-20-16, 8-3-16 SHEET 5 OF 6
	STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	FILE => 03-0g4801-j-jt-det03.dgn	DATE PLOTTED => 07-SEP-2016 TIME PLOTTED => 12:40	USERNAME => s119538

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	113,505	Var	12	12

Peter B. Kang 8-3-16
REGISTERED CIVIL ENGINEER DATE

9-6-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PETER B. KANG
No. C 70336
Exp. 9-30-16
CIVIL
STATE OF CALIFORNIA

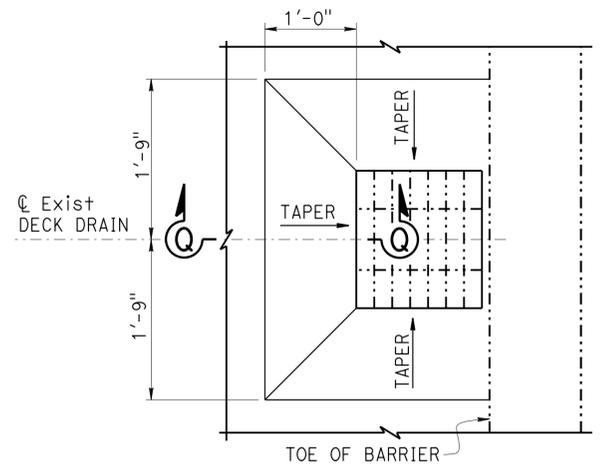
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NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Joint And Deck Repair Detail" on "JOINT SEAL DETAILS NO. 3" sheet.

 Indicates limits of remove existing concrete deck surface.

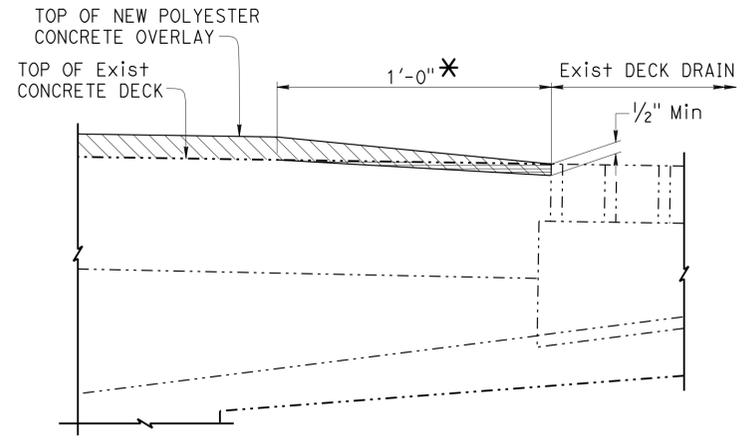
* - Remove concrete deck surface around existing deck drain. Typ



PART PLAN

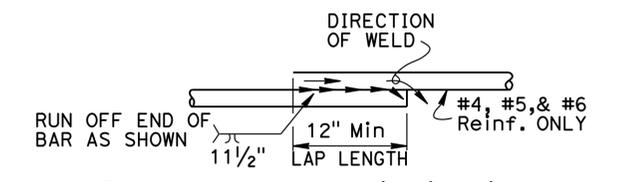
DECK DRAIN TAPER DETAILS

1" = 1'-0"



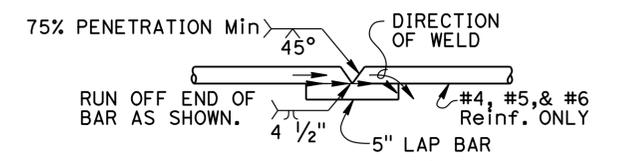
SECTION Q-Q

3" = 1'-0"



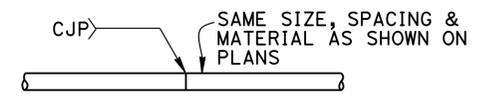
Note: Flare weld to be made in direction shown.

WELDED LAP SPLICE AND ANCHOR



1. Butt weld to be made first.
2. Butt weld to be made in flat or horizontal position.
3. Lap bar to be centered on splice.
4. Flare weld to be made in direction shown.
5. Lap bar equal size to welded bar.

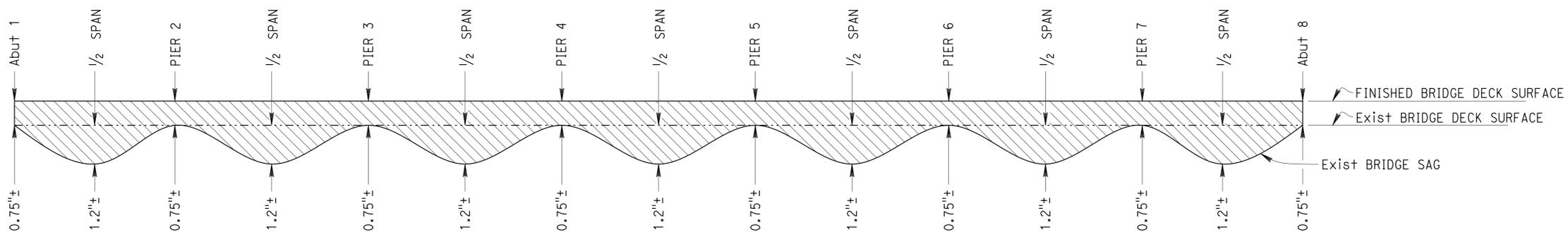
VEE GROOVE WELDED SPLICE



BUTT WELD

BAR SPLICE DETAIL

(Br No. 22-0101R)



BRIDGE PROFILE DIAGRAM

No Scale
Br No. 22-0101R

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DESIGN	BY	M. Hashimoto	CHECKED	P. Kang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS	ROUTE 113, 505 BRIDGES			
	DETAILS	BY	Dale Kubochi	CHECKED				P. Kang	POST MILE VARIES	MISCELLANEOUS DETAILS
	QUANTITIES	BY	M. Hashimoto	CHECKED				P. Kang		