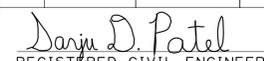


4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	20	R12.8, R15.9	8A	28
 REGISTERED CIVIL ENGINEER			7-21-11	DATE	
12-13-10			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



NOTES:

1. MINOR Conc (MINOR Str) ANCHOR BLOCKS SHALL BE SHIELDED FROM TRAFFIC UNTIL CONCRETE CURES AND PERMANENT Trans RAILING (TYPE WB) CONNECTION IS INSTALLED.
2. REMOVE MBGR POSTS, INSTALL NESTED RAIL ELEMENT, EXCAVATE FOR ANCHOR BLOCK, FORM AND POUR ANCHOR BLOCK, REMOVE MBGR AFTER CONCRETE CURES, AND INSTALL Trans RAILING (TYPE WB).
3. EXISTING POST SPACING MAY BE VARIABLE DEPENDING ON FIELD CONDITIONS.
4. MBGR WORK IS TO BE DONE USING STANDARD PLAN TRAFFIC CONTROL SYSTEM.

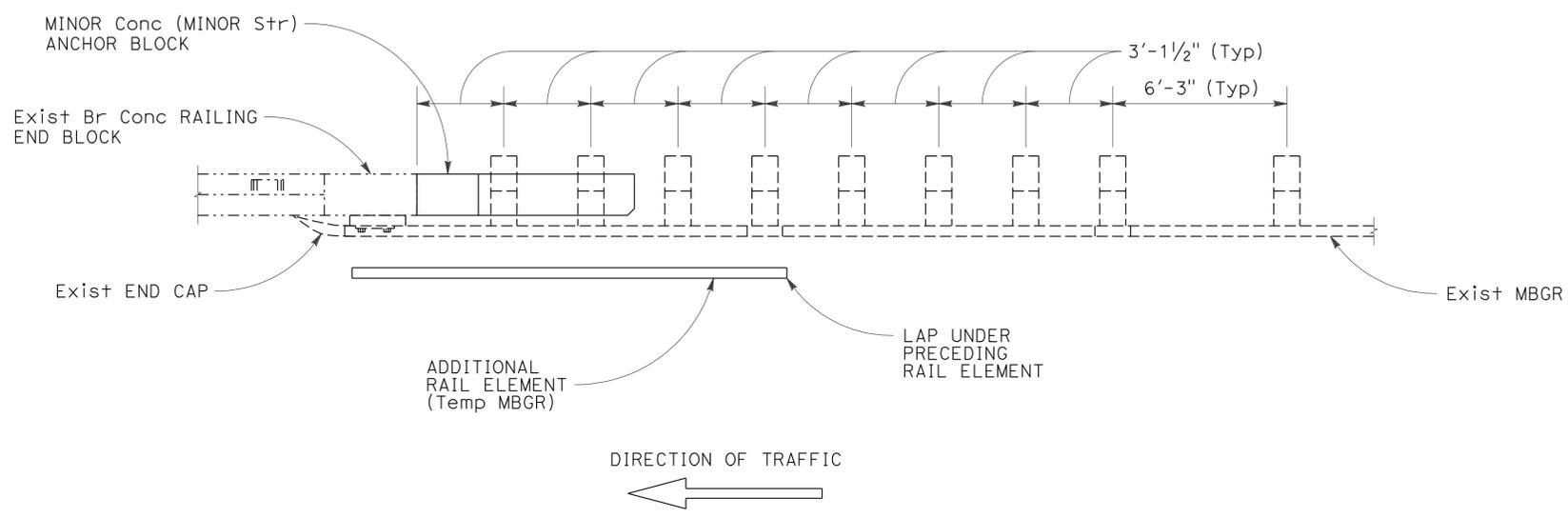
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ROBERT E. POLGAR

CALCULATED/DESIGNED BY
 CHECKED BY

SARJU D. PATEL
 W. KEITH MACK

REVISED BY
 DATE



**Temp MBGR SHIELD DETAIL FOR
 MINOR Conc (MINOR Str) ANCHOR BLOCK
 ON APPROACH END**

TEMPORARY METAL BEAM GUARD RAILING

LOCATION	Br No.	STATION ("A" LINE)	QUANTITY
			LF
R+e 20/174 Sep	17-0050	L+ 339+54.12 TO L+ 339+66.62	12.5
		R+ 334+40.63 TO R+ 334+53.13	12.5
TOTAL			25.0

4

ADDED PER ADDENDUM No. 4 DATED JULY 26, 2011

**STAGE CONSTRUCTION DETAILS
 AND QUANTITIES**

NO SCALE

SCD-1

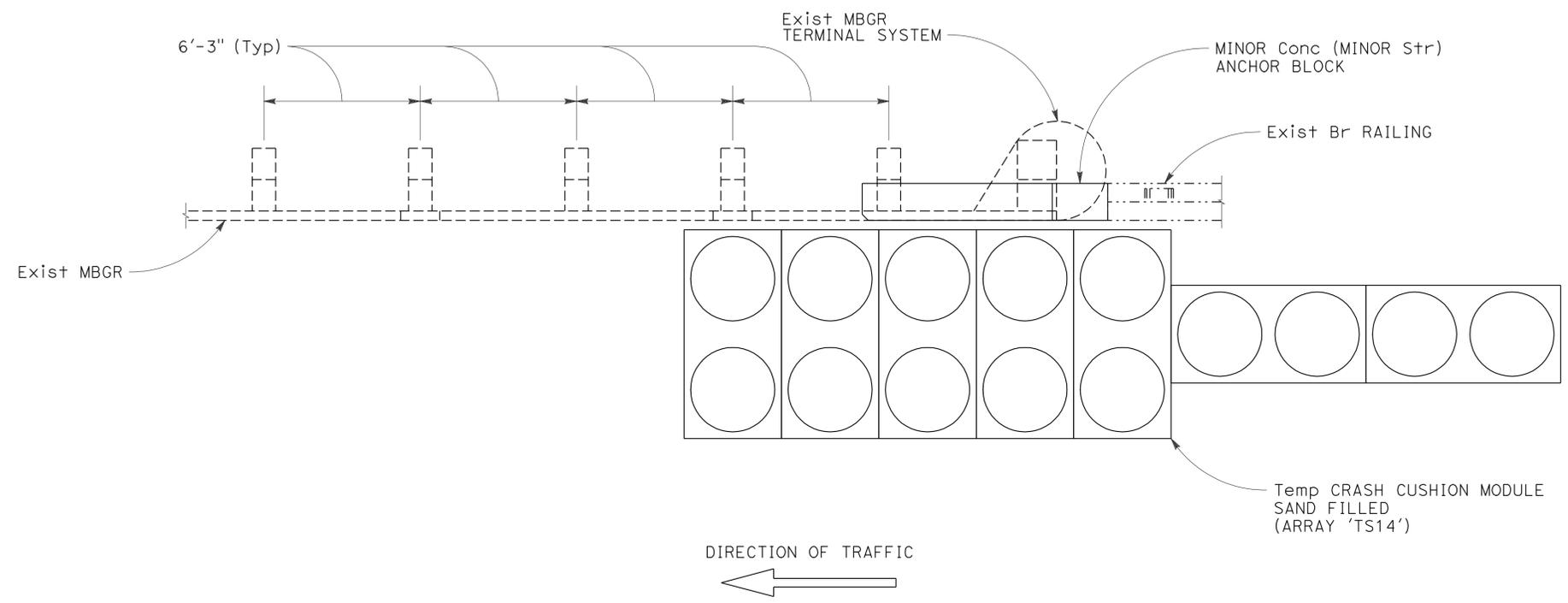
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	20	R12.8, R15.9	8B	28
SARJU D. PATEL			7-21-11		
REGISTERED CIVIL ENGINEER			DATE		
12-13-10			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



NOTES:

1. EXPOSED MBGR AND MINOR Conc (MINOR Str) ANCHOR BLOCKS SHALL BE SHIELDED FROM TRAFFIC UNTIL CONCRETE CURES AND PERMANENT MBGR CONNECTION IS INSTALLED.
2. REMOVE MBGR, PLACE Temp CRASH CUSHION, EXCAVATE FOR ANCHOR BLOCK, FORM AND POUR ANCHOR BLOCK, REMOVE Temp CRASH CUSHION AFTER CONCRETE CURES, AND INSTALL MBGR.
3. EXISTING POST SPACING MAY BE VARIABLE DEPENDING ON FIELD CONDITIONS.
4. MBGR WORK IS TO BE DONE USING STANDARD PLAN TRAFFIC CONTROL SYSTEM.
5. FOR Temp CRASH CUSHION, SAND FILLED DETAILS NOT SHOWN, SEE STANDARD PLANS RSP T2.



**Temp MBGR SHIELD DETAIL FOR
MINOR Conc (MINOR Str) ANCHOR BLOCK
ON TRAILING END**

TEMPORARY CRASH CUSHION MODULE

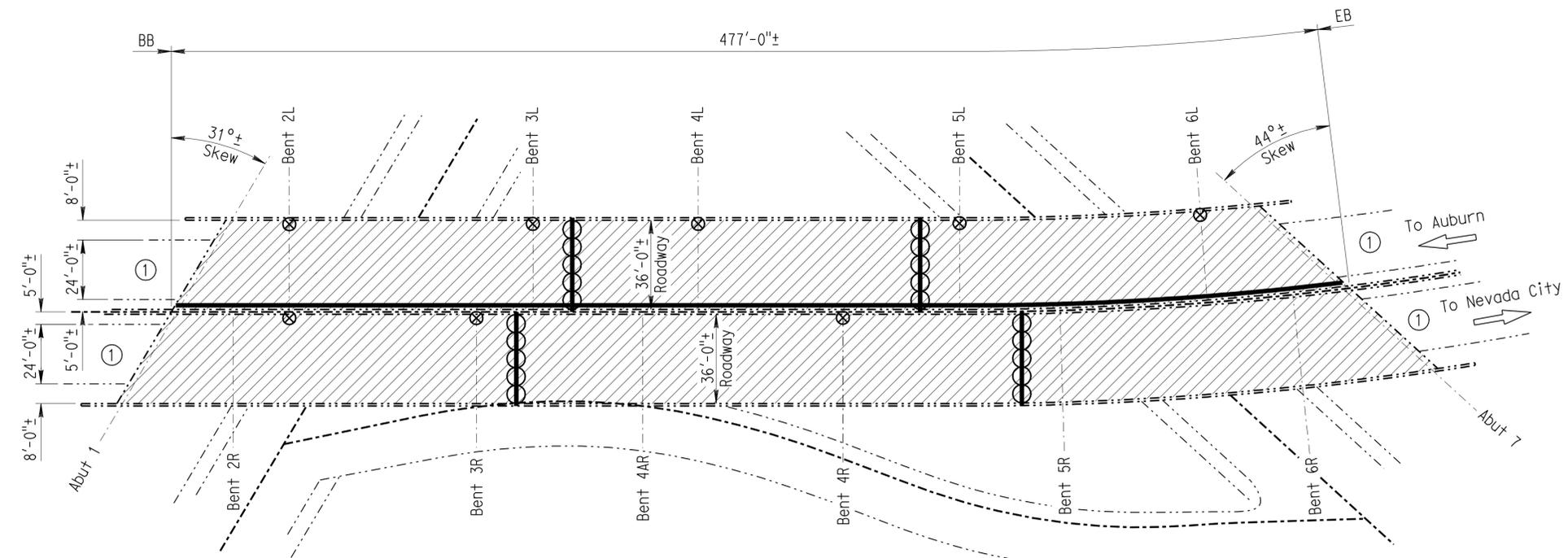
LOCATION	Br No.	STATION ("A" LINE)	ARRAY	QUANTITY
				EA
Rte 20/174 Sep	17-0050	L+ 334+85.79 TO L+ 334+99.96	'TS14'	14
		R+ 340+20.64 TO R+ 340+34.40	'TS14'	14
TOTAL				28

**STAGE CONSTRUCTION DETAILS
AND QUANTITIES**

4 **ADDED PER ADDENDUM No. 4 DATED JULY 26, 2011** NO SCALE **SCD-2**

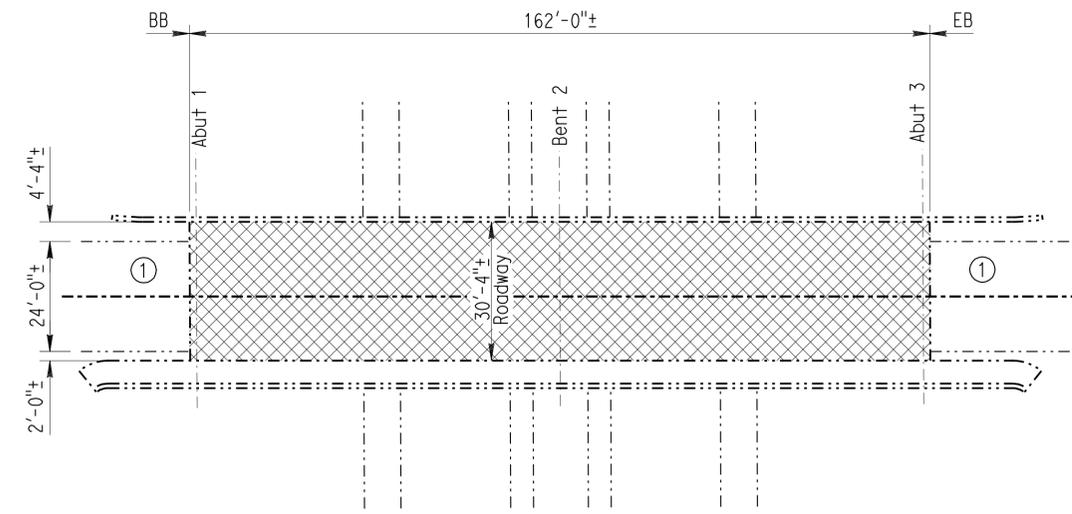
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN
 Sarju D. Patel
 W. Keith Mack
 Robert E. Polgar
 Functional Supervisor
 Calculated/Designed By
 Checked By
 Revised By
 Date Revised

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	20	R12.8, R15.9	27	28
<i>Charles R. Hutchinson</i> REGISTERED CIVIL ENGINEER			10-5-10	DATE	
12-13-10 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.					



ROUTE 20/174 SEPARATION
 BR NO. 17-0050, ROUTE 20, PM 12.85
 1" = 30'

QUANTITIES	
REMOVE ASPHALT CONCRETE SURFACING	33,900 SQFT
REMOVE UNSOUND CONCRETE	86 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	33,900 SQFT
CLEAN EXPANSION JOINT	152 LF
RAPID SETTING CONCRETE (PATCH)	86 CF
FURNISH POLYESTER CONCRETE OVERLAY	10,200 CF
PLACE POLYESTER CONCRETE OVERLAY	33,900 SQFT
JOINT SEAL (MR 1 1/2")	114 LF
JOINT SEAL (MR 2")	38 LF
PUBLIC SAFETY PLAN	LUMP SUM
JOINT SEAL (TYPE AL)	477 LF
BRIDGE REMOVAL (PORTION)	LUMP SUM



GOLD FLAT ROAD OVERCROSSING
 BR NO. 17-0082, ROUTE 20, PM 15.92
 1" = 20'

QUANTITIES	
REMOVE UNSOUND CONCRETE	13 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,900 SQFT
RAPID SETTING CONCRETE (PATCH)	13 CF
FURNISH POLYESTER CONCRETE OVERLAY	500 CF
PLACE POLYESTER CONCRETE OVERLAY	4,900 SQFT

4 REVISED PER ADDENDUM No. 4 DATED JULY 26, 2011

- NOTES: (APPLY TO ALL SHEETS)**
- Indicates existing structure.
 - THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 - ① STANDARD PLAN SHEET NUMBER
 - ② DETAIL NUMBER
- NOTES: (APPLY TO THIS SHEET ONLY)**
- Indicates limits of remove existing 3"± depth AC surface, deck seal membrane, prepare concrete bridge deck surface, remove reinforced concrete expansion dams, remove unsound concrete, patch with rapid setting concrete and place a 3"± polyester concrete overlay. For details see "DECK REPAIR TABLE" on JOINT SEAL & DECK REPAIR DETAILS sheet.
 - Indicates limits of prepare concrete bridge deck surface, remove unsound concrete, patch with rapid setting concrete and place a 1" minimum polyester concrete overlay. For details see "DECK REPAIR TABLE" on JOINT SEAL & DECK REPAIR DETAILS sheet.
 - Indicates limits of remove existing joint seal and reinforced concrete expansion dams and place new joint seal. For details see JOINT SEAL & DECK REPAIR DETAILS sheet.
 - ① See "Road Plans" for remove existing pavement surface to conform to new deck or approach slab grades.
 - ⊗ Approximate location of down drains to be cleaned out.
 - Indicates limits of remove existing longitudinal joint and place new joint seal. for details, see "Joint Seal and Deck Repair Details" sheet.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	JOINT SEAL & DECK REPAIR DETAILS

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 (Max. MOVEMENT RATING = 2")

 DESIGN ENGINEER	DESIGN	BY F. Espinoza	CHECKED P. Gagnier	LAYOUT	BY M. Hallstrom	CHECKED P. Gagnier	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 20 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY M. Hallstrom	CHECKED P. Gagnier	SPECIFICATIONS	BY F. Espinoza	CHECKED P. Gagnier			POST MILE	VARIES	
QUANTITIES	BY F. Espinoza	CHECKED P. Gagnier					CU 03 EA 3E0601			REVISION DATES	SHEET 1 OF 2

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES 11-19-09

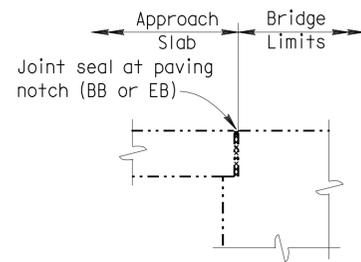
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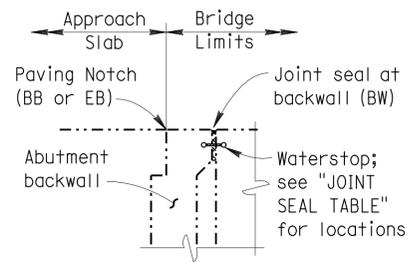
JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)	APPROX DEPTH OF JOINT SPALLS (inches)	APPROX WIDTH OF JOINT SPALLS (inches)	APPROX LENGTH OF JOINT SPALLS (inches)
17-0050	Longitudinal Joint	*	477	Yes	2	N/A	N/A	N/A
17-0050L	Hinge Span 3	1 1/2	38.2	No	11 1/2	3	6	5
	Hinge Span 4	1 1/2	38.2	No	11 1/2	3	6	5
17-0050R	Hinge Span 3	1 1/2	38.2	No	11 1/2	3	6	5
	Hinge Span 5	2	38.2	No	11 1/2	3	6	5

LEGEND:
* = Use type AL seal as shown on RSP B6-21.

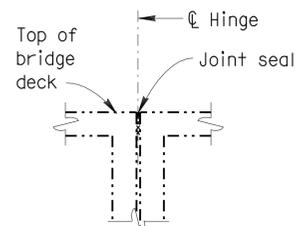


DIAPHRAGM ABUTMENT

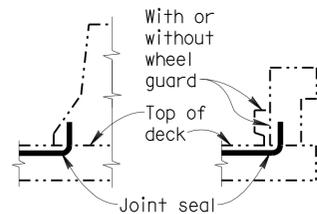


**ABUTMENT WITH BACKWALL
JOINT SEAL LOCATION**

NO SCALE



BENT



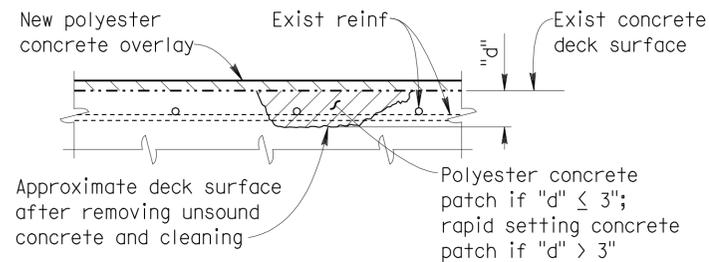
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint.
NO SCALE

**DECK REPAIR TABLE
REMOVE UNSOUND CONCRETE AND
RAPID SETTING CONCRETE (PATCH)**

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (ft ²)	APPROXIMATE DEPTH (INCHES)
ROUTE 20/174 SEPARATION	17-0050	338.7	3.0
GOLD FLAT ROAD OCERCROSSING	17-0082	49.0	3.0



DECK REPAIR DETAIL

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

DECK DRAINS	
LOCATION	NUMBER
EB	3 EA
WB	5 EA
TOTAL	8 EA

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	20	R12.8, R15.9	28	28

REGISTERED CIVIL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

10-5-10 DATE
 12-13-10 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.

- 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 

4 REVISED PER ADDENDUM No. 4 DATED JULY 26, 2011

DESIGN	BY F. Espinoza	CHECKED P. Gagnier	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 20 BRIDGES
DETAILS	BY M. Hallstrom	CHECKED P. Gagnier			VARIOUS	
QUANTITIES	BY F. Espinoza	CHECKED P. Gagnier			VARIES	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)				CU 03 EA 3E0601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-19-09
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	REVISION DATES	SHEET 2 OF 2