

Special Bridge Repairs - 2009-11 Biennium - South Central Region

(Sorted by Priority#)

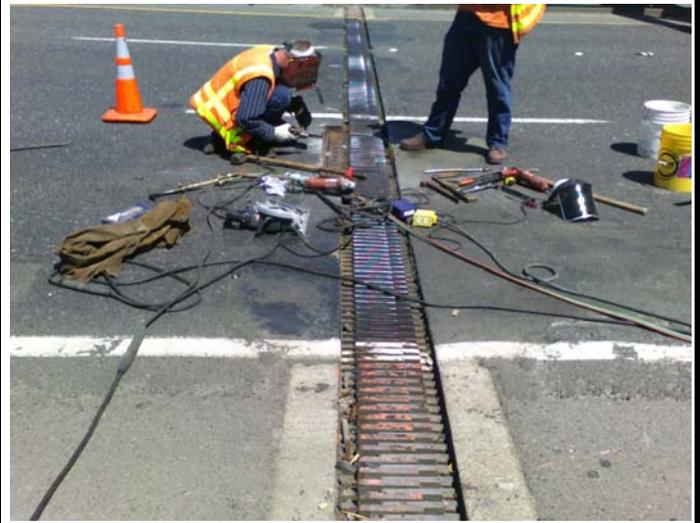
Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$':	Total\$':
005/040W	LEWIS R	Steel Finger Exp Joint	Repair Finger Joint	SW	1	\$250,000	\$641,000
005/104W	DIKE ACCESS RD & RR OC	Steel Plate Exp Jnt with Bolts	Replace steel plate expansion joints at both ends of the bridge.	SW	6	\$104,000	\$312,000
006/123	CHEHALIS R RIVERSIDE	Timber Submerged Col/Pile	Replace 21 Yellow Tagged timber piles as identified in the May, 2003 Bridge Inspection Report.	SW	8	\$60,000	\$300,000
005/040W	LEWIS R	Steel Thru Truss	Repair damage to sways caused by an overheight truck impact.	SW	38	\$250,000	\$500,000
005/102E	SR 503 OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	SW	44	\$93,000	\$279,000
005/102W	SR 503 OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	SW	45	\$93,000	\$279,000
500/006	I-205 OC	Exp Joint - Rubber Bolt Down	Replace expansion joints.	SW	67	\$111,000	\$222,000
409/010	JULIA BUTLER HANSEN BR	Timber Deck	Replace timber deck on steel truss span.	SW	74	\$1,500,000	\$3,000,000
004/230	COWLITZ R-P CRAWFORD B	Poured Joint Filler	Replace joint material in panel joints in Steel Truss span.	SW	85	\$54,600	\$109,200
006/118	CHEHALIS R ADNA	Steel Plate Exp Jnt	Rehabilitate the expansion joints.	SW	87	\$40,000	\$240,000
012/306	INDIAN CR	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	SW	90	\$45,000	\$100,000
11 Repairs				Sum of Bridge \$'s =		\$2,600,600	\$5,982,200

Special Bridge Repairs - 2009-11 Biennium - Southwest Region

(Sorted by Bridge#)

Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$':	Total\$':
004/230	COWLITZ R-P CRAWFORD B	Poured Joint Filler	Replace joint material in panel joints in Steel Truss span.	SW	85	\$54,600	\$109,200
005/040W	LEWIS R	Steel Thru Truss	Repair damage to sways caused by an overhieght truck impact.	SW	38	\$250,000	\$500,000
005/040W	LEWIS R	Steel Finger Exp Joint	Repair Finger Joint	SW	1	\$250,000	\$641,000
005/102E	SR 503 OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	SW	44	\$93,000	\$279,000
005/102W	SR 503 OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	SW	45	\$93,000	\$279,000
005/104W	DIKE ACCESS RD & RR OC	Steel Plate Exp Jnt with Bolts	Replace steel plate expansion joints at both ends of the bridge.	SW	6	\$104,000	\$312,000
006/118	CHEHALIS R ADNA	Steel Plate Exp Jnt	Rehabilitate the expansion joints.	SW	87	\$40,000	\$240,000
006/123	CHEHALIS R RIVERSIDE	Timber Submerged Col/Pile	Replace 21 Yellow Tagged timber piles as identified in the May, 2003 Bridge Inspection Report.	SW	8	\$60,000	\$300,000
012/306	INDIAN CR	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	SW	90	\$45,000	\$100,000
409/010	JULIA BUTLER HANSEN BR	Timber Deck	Replace timber deck on steel truss span.	SW	74	\$1,500,000	\$3,000,000
500/006	I-205 OC	Exp Joint - Rubber Bolt Down	Replace expansion joints.	SW	67	\$111,000	\$222,000
11 Repairs				Sum of Bridge \$'s =		\$2,600,600	\$5,982,200

Bridge Number: 5 / 40W	Structure ID 0002559A	Bridge Name: LEWIS R	Milepost: 19.83	Region: Southwest
Year Built / YR Widened: 1940	Bridge Type: STrus CTB	Bridge Length: 1,310 ft	Bridge Width (curb-curb): 48.0 ft	Sufficiency Rating: 41.52 FO
Average Daily Traffic: 55,618	Truck% 21%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 9/8/2005	Structr Adequacy: 3	Superstr Code: 5	Safe Load: 5	
Substr Code: 7	Scour: 5			
BMS Element Num: 410	BMS Element Descr: Steel Finger Exp Joint			
BMS Element Quantity: 48				
Project Number:	2009-11 Priority#:	1		
Repair Year: 2008	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$250,000		
	Repair Total\$'s:	\$641,000		



Repair Description:

Repair Finger Joint

COMMENTS

The SW Region Maintenance has repaired the Pier 9 joint by spanning over and beyond the three loose sections of joint with bar stock to undamaged sections of the joint. The bar stock was then welded to the loose and undamaged sections of the joint. The same procedure was performed to the fingers of the loose sections of the joint. Steel bars were also welded under the fingers so that they would bear on the support beam.

This joint is scheduled to be replaced in 2008 by contract.

Bridge Number: 5 / 104W	Structure ID 0008952A	Bridge Name: DIKE ACCESS RD & RR OC		Milepost: 22.72	Region: Southwest
Year Built / YR Widened: 1972	Bridge Type: SG		Bridge Length: 675 ft	Bridge Width (curb-curb): 52.0 ft	Sufficiency Rating: 91.27
Average Daily Traffic: 27,077	Truck% 24%	Detour (miles) 2	Num of Lanes: 3		
Date Inspected: 3/20/2005	Structr Adequacy: 6		Superstr Code: 6		
Substr Code: 7	Safe Load: 5		Scour: N		
BMS Element Num: 414					
BMS Element Descr: Steel Plate Exp Jnt with Bolts					
BMS Element Quantity: 104					
Project Number:	2009-11 Priority#:	6			
Repair Year:	2007-09 Priority#:				
CPMS Ad Date:	Bridge \$'s:	\$104,000			
	Repair Total\$'s:	\$312,000			



Repair Description:

Replace steel plate expansion joints at both ends of the bridge.

COMMENTS

The sliding steel plate joints are held in place with springs and bolts. The south abutment joint has its anchorage straps sheared off in the right lane and has been temporarily repaired. The north abutment joint headers have been patched with UREfast.

Bridge Item cost based on \$1,500 / ft. Total project cost based on \$3,000 / ft.

Bridge Number: 6 / 123	Structure ID 0002538B	Bridge Name: CHEHALIS R RIVERSIDE	Milepost: 50.94	Region: Southwest
Year Built / YR Widened: 1939	Bridge Type: ST TTT	Bridge Length: 1,045 ft	Bridge Width (curb-curb): 24.0 ft	Sufficiency Rating: 43.76 SD
Average Daily Traffic: 8,367	Truck% 10%	Detour (miles) 3	Num of Lanes: 2	
Date Inspected: 4/26/2007	Superstr Code: 6	Substr Code: 4	Structr Adequacy: 4	Safe Load: 5
BMS Element Num: 228		BMS Element Descr: Timber Submerged Col/Pile		
BMS Element Quantity: 21 each				
Project Number: 400608T	2009-11 Priority#: 8	2007-09 Priority#: 16	Bridge \$'s: \$60,000	
Repair Year: 2008	Repair Total\$'s: \$300,000		CPMS Ad Date: 4/7/2008	



Repair Description:

Replace 21 Yellow Tagged timber piles as identified in the May, 2003 Bridge Inspection Report.

COMMENTS

There are 40 timber piers with 5 piles in each pier. Thirteen (13) previously red tagged piles have been repaired by the SW Region Maintenance crews in 1995 and 1999. These piles were repaired by removing a portion of the old pile above ground and adding a section of new pile. There are 21 timber piles that have been "Yellow-Tagged" due to various amounts of rot. A telephone conversation on 6/2/2004 between the Bridge Office and the SW Region agreed that the replacement of the timber caps will be performed by the SW Region Bridge Maintenance in the future and the replacement of the piles would be done by contract.

Bridge Number: 5 / 40W	Structure ID 0002559A	Bridge Name: LEWIS R	Milepost: 19.83	Region: Southwest
Year Built / YR Widened: 1940	Bridge Type: STrus CTB	Bridge Length: 1,310 ft	Bridge Width (curb-curb): 48.0 ft	Sufficiency Rating: 41.52 FO
Average Daily Traffic: 55,618	Truck% 21%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 9/8/2005	Structr Adequacy: 3	Superstr Code: 5	Safe Load: 5	
Substr Code: 7	Scour: 5			
BMS Element Num: 126	BMS Element Descr: Steel Thru Truss			
BMS Element Quantity: 0				
Project Number: Repair Year: CPMS Ad Date:	2009-11 Priority#: 2007-09 Priority#: Bridge \$'s: Repair Total\$'s:	38 \$250,000 \$500,000		



Repair Description:

Repair damage to sways caused by an overhieght truck impact.

COMMENTS

The North Fork Lewis River Bridge was hit with a " High Load" (dump truck with the bed up) on April 12 of 2007. SW Region Bridge Maintenance team has done all the repairs to the guard rail and deck but at this time we will not be repairing the portal and other damaged steel members. The damage was under K4-1442.

Portals and sways have been damaged. Cost of repair unknown. Use assumed costs of \$250,000 and \$500,000 until better estimates are developed.

Bridge Number: 5 / 102E	Structure ID 0007064A	Bridge Name: SR 503 OC	Milepost: 21.08	Region: Southwest
Year Built / YR Widened: 1963	Bridge Type: PCB	Bridge Length: 168 ft	Bridge Width (curb-curb): 45.0 ft	Sufficiency Rating: 75.54 FO
Average Daily Traffic: 23,154	Truck% 21%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 10/27/2005	Superstr Code: 7	Substr Code: 7	Structr Adequacy: 7	Safe Load: 5
BMS Element Num: 415			Scour: N	
BMS Element Descr: Exp Jnt - Rubber Bolt Down				
BMS Element Quantity: 186 Feet				
Project Number:	2009-11 Priority#:	44		
Repair Year:	2007-09 Priority#:	36		
CPMS Ad Date:	Bridge \$'s:	\$93,000		
	Repair Total\$'s:	\$279,000		



No Photo Available

Repair Description:

Replace the rubber bolt down expansion joints.

COMMENTS

The rubber bolt down expansion joints were added to this bridge in 1983. These expansion joints are deteriorated and need to be replaced.

Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.

Bridge Number: 5 / 102W	Structure ID 0007064B	Bridge Name: SR 503 OC	Milepost: 21.08	Region: Southwest
Year Built / YR Widened: 1963	Bridge Type: PCB	Bridge Length: 168 ft	Bridge Width (curb-curb): 45.0 ft	Sufficiency Rating: 75.54 FO
Average Daily Traffic: 23,154	Truck% 21%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 10/27/2005	Structr Adequacy: 7	Superstr Code: 7	Safe Load: 5	Substr Code: 7
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt Down		
BMS Element Quantity: 186 Feet				
Project Number:	2009-11 Priority#:	45		
Repair Year:	2007-09 Priority#:	37		
CPMS Ad Date:	Bridge \$'s:	\$93,000		
	Repair Total\$'s:	\$279,000		



Repair Description:

Replace the rubber bolt down expansion joints.

COMMENTS

The rubber bolt down expansion joints were added to this bridge in 1983. These expansion joints are deteriorated and need to be replaced.

Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.

Bridge Number: 500 / 6	Structure ID 0009214B	Bridge Name: I-205 OC	Milepost: 4.77	Region: Southwest
Year Built / YR Widened: 1973	Bridge Type: PTCBox PCG	Bridge Length: 408 ft	Bridge Width (curb-curb): 114.0 ft	Sufficiency Rating: 66.44 FO
Average Daily Traffic: 38,737	Truck% 5%	Detour (miles) 2	Num of Lanes: 7	
Date Inspected: 10/24/2005	Structr Adequacy: 4	Superstr Code: 7	Safe Load: 5	
Substr Code: 7	Scour: N			
BMS Element Num: 415	BMS Element Descr: Exp Joint - Rubber Bolt Down			
BMS Element Quantity: 222				
Project Number:	2009-11 Priority#:	67		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$111,000		
	Repair Total\$'s:	\$222,000		



Repair Description:

Replace expansion joints.

COMMENTS

Bridge Item cost based on \$500 / ft. Total project cost based on \$1,000 / ft.

Bridge Number: 409 / 10	Structure ID 0002377A	Bridge Name: JULIA BUTLER HANSEN BR	Milepost: 2.92	Region: Southwest
Year Built / YR Widened: 1938 / 1987	Bridge Type: ST PCB SG CTB	Bridge Length: 2,615 ft	Bridge Width (curb-curb): 20.0 ft	Sufficiency Rating: 40.45 FO
Average Daily Traffic: 2,200	Truck% 	Detour (miles) 	Num of Lanes: 2	
Date Inspected: 12/15/2005	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 5	Scour: 5			
BMS Element Num: 31 BMS Element Descr: Timber Deck BMS Element Quantity: 25,348				
Project Number:	2009-11 Priority#:	74		
Repair Year:	2007-09 Priority#:	18		
CPMS Ad Date:	Bridge \$'s:	\$1,500,000		
	Repair Total\$'s:	\$3,000,000		



Repair Description:

Replace timber deck on steel truss span.

COMMENTS

The Southwest Region Maintenance bridge crews adding steel plates over deteriorated areas in the deck as part of an asphalt repaving project.

Bridge Number: 4 / 230	Structure ID 0003717A	Bridge Name: COWLITZ R-P CRAWFORD BR	Milepost: 61.08	Region: Southwest
Year Built / YR Widened: 1951	Bridge Type: STrus CTB	Bridge Length: 1,710 ft	Bridge Width (curb-curb): 56.0 ft	Sufficiency Rating: 40.98
Average Daily Traffic: 28,026	Truck% 4%	Detour (miles) 10	Num of Lanes: 4	
Date Inspected: 9/11/2006	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 5	Scour: 5			
BMS Element Num: 402	BMS Element Descr: Poured Joint Filler			
BMS Element Quantity: 728				
Project Number: Repair Year: CPMS Ad Date:	2009-11 Priority#: 2007-09 Priority#:	85	Bridge \$'s: Repair Total\$'s:	\$54,600 \$109,200
				
<p>Repair Description: Replace joint material in panel joints in Steel Truss span.</p>				
<p>COMMENTS</p>				
<p>Bridge item\$ based on \$75 / ft , Total Project\$ based on \$150 / ft.</p>				

Bridge Number: 6 / 118	Structure ID 0008757A	Bridge Name: CHEHALIS R ADNA	Milepost: 46.59	Region: Southwest
Year Built / YR Widened: 1971	Bridge Type: SG	Bridge Length: 406 ft	Bridge Width (curb-curb): 40.0 ft	Sufficiency Rating: 95.31
Average Daily Traffic: 5,663	Truck% 10%	Detour (miles) 10	Num of Lanes: 2	
Date Inspected: 5/23/2007	Superstr Code: 7	Substr Code: 7	Structr Adequacy: 7	
			Safe Load: 5	
			Scour: 3	
BMS Element Num: 414 BMS Element Descr: Steel Plate Exp Jnt BMS Element Quantity: 80				
Project Number:	2009-11 Priority#:	87		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$40,000		
	Repair Total\$'s:	\$240,000		



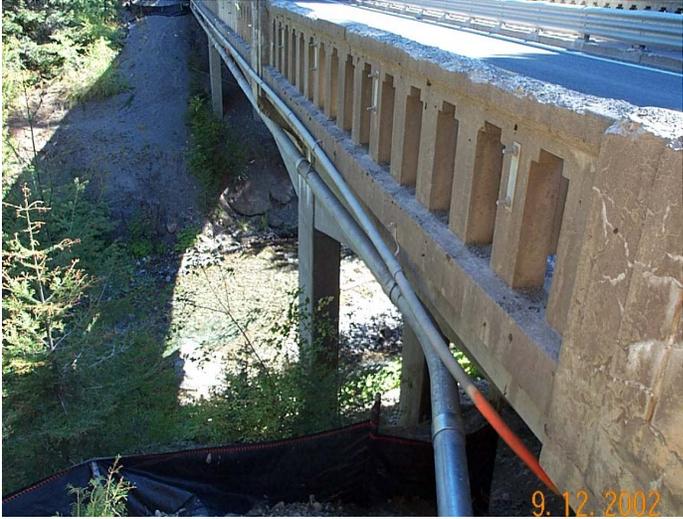
Repair Description:

Rehabilitate the expansion joints.

COMMENTS

Remove and replace the bolts that attach the steel sliding plate expansion joint.

Bridge Item cost based on \$500 / ft. Total project cost based on \$3,000 / ft.

Bridge Number: 12 / 306	Structure ID 0002513A	Bridge Name: INDIAN CR	Milepost: 159.01	Region: Southwest
Year Built / YR Widened: 1939	Bridge Type: CTB	Bridge Length: 139 ft	Bridge Width (curb-curb): 24.0 ft	Sufficiency Rating: 79.09
Average Daily Traffic: 1,788	Truck% 21%	Detour (miles) 35	Num of Lanes: 2	
Date Inspected: 9/5/2006	Superstr Code: 7	Substr Code: 6	Structr Adequacy: 6	
			Safe Load: 5	
			Scour: 3	
BMS Element Num: 331 BMS Element Descr: Concrete Bridge Rail BMS Element Quantity: 278				
Project Number:	2009-11 Priority#:	90		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$45,000		
	Repair Total\$'s:	\$100,000		



Repair Description:

Replace the deteriorated concrete bridge rails.

COMMENTS