

P2 Bridge Preservation - Replacement/Rehab Projects

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
8	097/020	SATUS CR	30.80	Southwest	101	Replace Bridge
19	508/012	S FK NEWAUKUM R	13.65	Southwest	197	Replace Bridge
21	506/106	LACAMAS CR	8.05	Southwest	170	Replace Bridge
22	508/025	CREEK - west	24.08	Southwest	26	Replace Bridge
23	508/023	ALDER CR	22.65	Southwest	88	Replace Bridge
24	005/036E	E FK LEWIS R	18.21	Southwest	852	Replace Bridge

Total Number of Bridges = 6



P2 Bridge Preservation - Replacement/Rehab Projects

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
24	005/036E	E FK LEWIS R	18.21	Southwest	852	Replace Bridge
8	097/020	SATUS CR	30.80	Southwest	101	Replace Bridge
21	506/106	LACAMAS CR	8.05	Southwest	170	Replace Bridge
19	508/012	S FK NEWAUKUM R	13.65	Southwest	197	Replace Bridge
23	508/023	ALDER CR	22.65	Southwest	88	Replace Bridge
22	508/025	CREEK - west	24.08	Southwest	26	Replace Bridge

Total Number of Bridges = 6



2011-13 Bien P2 Bridge Replacements/Rehab Candidate

Bridge Number: 5 / 36E	Structure ID 0002473A	Bridge Name: E FK LEWIS R	Milepost: 18.21	Region: Southwest
Year Built / YR Widened: 1936	Bridge Type: STrus CTB		Number of Main/Appr span 1 / 12	Sufficiency Rating: 30.35 SD
Bridge Width (curb-curb): 48.0 ft	Bridge Length: 852 ft	Max Span: 248 ft	Bridge Deck View	
Average Daily Traffic: 33,747	Truck% 35%	Number of Lanes: 3	NHS: YES	
Vertical Clearance: 17 FT 02 in	Detour Length (miles): Appr Rdway Width: 2 52.0 ft			
Design Load: H 15	HS: 0.70	Load Restricted Bridge? <input checked="" type="checkbox"/>		
Op Rating: 31.00	A1: 1.02	BL Load: 20,000		
Inv Rating: 18.00	A2: 1.06	CL-8 Load: 20,000	Bridge Profile View	
	A3: 1.16	SA Load: 35,500		
Bridge Inspection Information				
Date Inspected: 8/18/2009	Structr Adequacy: 4			
Superstr Code: 4	Safe Load: 5			
Substr Code: 6	Deck Geometry: 4			
Deck Code: 6	Underclearance: 3			
Scour: 3	Waterway: 8			
Proposed Bridge Replacement Information				
New Bridge Width: 48 ft.	Bridge \$'s:			
New Bridge Length: 860 ft.	Total \$'s:			
Priority Array #: 24				
PIN Number:				
WIN Number:	Repl/Rehab Year: 2020			
Contract Number:	Ad Date:			

THIS BRIDGE IS CLASSIFIED "SD" BASED ON THE SUPERSTRUCTURE CODE.
 Many of the steel stringers have cracks. A repair project for the cracked stringers was completed by contract in 2006.
 There are 48 locations with bolts, drilled holes, or welded plates. Some of the stringer ends at the floorbeam connections are showing laminar rust and starting to lift the deck off the stringer top flanges. Approximately 8% section loss typical.

This bridge was added to the Bridge Replacement Priority Array due to the existing load restrictions and it is cost prohibitive to rehabilitate the bridge to meet current truck load standards.



2011-13 Bien P2 Bridge Replacements/Rehab Candidate

Bridge Number: 97 / 20	Structure ID 0006113A	Bridge Name: SATUS CR	Milepost: 30.80	Region: Southwest
Year Built / YR Widened: 1959	Bridge Type: CVS		Number of Main/Appr span 3 / 0	Sufficiency Rating: 20.25 SD
Bridge Width (curb-curb): 38.0 ft	Bridge Length: 101 ft	Max Span: 40 ft	Bridge Deck View	
Average Daily Traffic: 3,917	Truck% 26%	Number of Lanes: 2	NHS: YES	
Vertical Clearance: NA	Detour Length (miles): 45		Appr Rdway Width: 45.0 ft	
Design Load: HS 20	HS: 0.71	Load Restricted Bridge? <input type="checkbox"/>		
Op Rating: 33.00	A1: 1.00	BL Load:		
Inv Rating: 19.00	A2: 0.98	CL-8 Load:		
	A3: 1.04	SA Load:		
Bridge Inspection Information			Bridge Profile View	
Date Inspected: 7/15/2009	Structr Adequacy: 4			
Superstr Code: 4	Safe Load: 5			
Substr Code: 5	Deck Geometry: 5			
Deck Code: 3	Underclearance: 9			
Scour: 3	Waterway: 6			
Proposed Bridge Replacement Information				
New Bridge Width: 40 ft.	Bridge \$'s:			
New Bridge Length: 120 ft.	Total \$'s:			
Priority Array #: 8				
PIN Number:				
WIN Number:	Repl/Rehab Year:			
Contract Number:	Ad Date:			
THE BRIDGE IS CLASSIFIED "SD" DUE TO A SUPERSTRUCTURE AND DECK CONDITION.				
<p>This is a cast-in-place hollow concrete slab. The bridge was constructed with little or no cover over the top mat of steel reinforcing in the deck. The top surface of the slab was first overlaid with a membrane and asphalt in 1974. The deck was repaired extensively and overlaid with asphalt in 1989. The bottom side of the slab has significant cracking with rust staining.</p> <p>Bridge Replacement is warranted since there is no cost effect way of addressing the bridge scour problem and the concrete slab deterioration.</p> <p>This bridge has been added to the 2009-11 P2 Program Replacement List.</p>				



2011-13 Bien P2 Bridge Replacements/Rehab Candidate

Bridge Number: 506 / 106	Structure ID 0003928A	Bridge Name: LACAMAS CR	Milepost: 8.05	Region: Southwest
Year Built / YR Widened: 1951	Bridge Type: TTC		Number of Main/Appr span 9 / 0	Sufficiency Rating: 41.84 SD
Bridge Width (curb-curb): 24.0 ft	Bridge Length: 170 ft	Max Span: 19 ft	Bridge Deck View	
Average Daily Traffic: 1,956	Truck% 12%	Number of Lanes: 2	NHS: No	
Vertical Clearance: NA	Detour Length (miles): 11		Appr Rdway Width: 30.0 ft	
Design Load: H 15	HS: 0.84	Load Restricted Bridge? <input checked="" type="checkbox"/>		
Op Rating: 30.00	A1: 0.99	BL Load:	16,500	
Inv Rating: 19.00	A2: 1.08	CL-8 Load:	21,000	
	A3: 1.20	SA Load:	41,000	
Bridge Inspection Information			Bridge Profile View	
Date Inspected: 5/7/2009	Structr Adequacy: 4			
Superstr Code: 5	Safe Load: 5			
Substr Code: 4	Deck Geometry: 4			
Deck Code: 3	Underclearance: 9			
Scour: 5	Waterway: 8			
Proposed Bridge Replacement Information				
New Bridge Width: 40 ft.	Bridge \$'s:			
New Bridge Length: 175 ft.	Total \$'s:			
Priority Array #: 21				
PIN Number: 450607A				
WIN Number: D50607A	Repl/Rehab Year: 2015			
Contract Number:	Ad Date:			
<p>THIS BRIDGE IS CLASSIFIED "SD" DUE TO A DECK AND SUBSTRUCTURE CONDITION. This bridge was added to the Bridge Replacement Priority Array in 2000.</p> <p>The Bridge Inspection Report says the deck has a 6" thick ACP overlay has many cracks and patches. Many timber lams in deck (3"x4") have center rot starting from the North edge and continuing 2' to 8' into the deck. The Stringer 10 has been replaced; Stringer 20 and 30 are Red Tagged and have 2" and 1/2" shell on 5" section under scupper. The Piles are checked, weathered, and split. Pile 3D has a 2" shell and a 6" rot pocket near the top (Y.T.); Pile 4D has a 1/4" wide check - 16 feet long; Pile 6D has a 2" shell with a 4" rot pocket ranging from 6' - 15' from the ground and has bug borer holes throughout (Y.T.); Pile 7D has a 2" shell with 4" rot pocket along the top 6 feet (Y.T.).</p> <p>P2 Bridge Replacement funding will likely be available in 2013-15.</p>				



2011-13 Bien P2 Bridge Replacements/Rehab Candidate

Bridge Number: 508 / 12	Structure ID 000000IJ	Bridge Name: S FK NEWAUKUM R	Milepost: 13.65	Region: Southwest
Year Built / YR Widened: 1930	Bridge Type: STrus TTC		Number of Main/Appr span 1 / 7	Sufficiency Rating: 27.89 SD
Bridge Width (curb-curb): 20.0 ft	Bridge Length: 197 ft	Max Span: 90 ft	Bridge Deck View	
Average Daily Traffic: 1,652	Truck% 14%	Number of Lanes: 2	NHS: No	
Vertical Clearance: NA	Detour Length (miles): 23		Appr Rdway Width: 26.0 ft	
Design Load: Unknown	HS: 0.79	Load Restricted Bridge? <input checked="" type="checkbox"/>		
Op Rating: 37.00	A1: 1.09	BL Load:	16,000	
Inv Rating: 22.00	A2: 0.91	CL-8 Load:	18,000	
	A3: 0.91	SA Load:	34,000	
Bridge Inspection Information			Bridge Profile View	
Date Inspected: 2/27/2008	Structr Adequacy:	4		
Superstr Code: 5	Safe Load:	2		
Substr Code: 5	Deck Geometry:	2		
Deck Code: 3	Underclearance:	9		
Scour: 3	Waterway:	8		
Proposed Bridge Replacement Information				
New Bridge Width: 40 ft.	Bridge \$'s:			
New Bridge Length: 200 ft.	Total \$'s:			
Priority Array #: 19				
PIN Number:				
WIN Number:	Repl/Rehab Year:	2015		
Contract Number:	Ad Date:			
<p>THIS BRIDGE IS CLASSIFIED "SD" BASED ON THE DECK CONDITION. The ACP was removed in 2001 as part of contract 6020. The concrete deck is very deteriorated and has over 60% delaminations.</p> <p>There is 15% section loss in the floorbeam webs near the connections to the truss, and 10% section loss in the bottom flanges near the ends. Exterior stringers: Top flanges up to 15% section loss and bottom flanges up to 30% section loss. Worst case is Stringer 7-1A near north truss panel point L1 with about 10 ft. of bottom flange showing laminar rusting and 30% section loss. Floor system lateral bracing between L4-L5 is bent 4" over 9 ft.</p>				



2011-13 Bien P2 Bridge Replacements/Rehab Candidate

Bridge Number: 508 / 23	Structure ID 000000CQ	Bridge Name: ALDER CR	Milepost: 22.65	Region: Southwest
Year Built / YR Widened: 1937	Bridge Type: TTT	Number of Main/Appr span 3 / 0	Sufficiency Rating: 49.01 SD	
Bridge Width (curb-curb): 19.6 ft	Bridge Length: 88 ft	Max Span: 29 ft	<p align="center">Bridge Deck View</p> 	
Average Daily Traffic: 1,331	Truck% 14%	Number of Lanes: 2		
Vertical Clearance: NA	Detour Length (miles): 50	Appr Rdway Width: 21.0 ft		
Design Load: Unknown	HS: 1.03	Load Restricted Bridge? <input type="checkbox"/>		
Op Rating: 37.00	A1: 1.29	BL Load:		
Inv Rating: 26.00	A2: 1.31	CL-8 Load:		
	A3: 1.58	SA Load:		
<p align="center">Bridge Inspection Information</p>				
Date Inspected: 2/27/2008	Structr Adequacy: 5			
Superstr Code: 6	Safe Load: 5			
Substr Code: 5	Deck Geometry: 2			
Deck Code: 3	Underclearance: 9			
Scour: 5	Waterway: 8			
<p align="center">Proposed Bridge Replacement Information</p>				
New Bridge Width: 38 ft.	Bridge \$'s:			
New Bridge Length: 95 ft.	Total \$'s:			
Priority Array #: 23				
PIN Number: 450804A				
WIN Number: D50804A	Repl/Rehab Year:			
Contract Number:	Ad Date:			
<p align="center">Bridge Profile View</p> 				
<p>THIS BRIDGE IS CLASSIFIED "SD" DUE TO A DECK, SUPER AND SUBSTRUCTURE CONDITION.</p> <p>The inspection report indicates the timber deck was repaired in 1993 by maintenance forces. During the repair the timber deck was found to have many rotten areas. The maintenance forces indicated that more areas will need to be repaired in the future. There are numerous pot holes in the existing ACP. Column 2D is red tagged due to rot found in the bottom 4'. Column 3D has a helper column next to the original column.</p> <p>P2 Bridge Replacement funding will likely be available in 2015-17.</p>				



2011-13 Bien P2 Bridge Replacements/Rehab Candidate

Bridge Number: 508 / 25	Structure ID 000000JV	Bridge Name: CREEK		Milepost: 24.08	Region: Southwest
Year Built / YR Widened: 1937	Bridge Type: TTC		Number of Main/Appr span 1 / 0	Sufficiency Rating: 53.00 FO	
Bridge Width (curb-curb): 19.7 ft	Bridge Length: 26 ft	Max Span: 24 ft		Bridge Deck View 	
Average Daily Traffic: 1,331	Truck% 14%	Number of Lanes: 2	NHS: No		
Vertical Clearance: NA	Detour Length (miles): 50		Appr Rdway Width: 20.0 ft		
Design Load: Unknown	HS: 1.14	Load Restricted Bridge? <input checked="" type="checkbox"/>			
Op Rating: 41.00	A1: 1.29	BL Load:	18,000		
Inv Rating: 28.00	A2: 1.37	CL-8 Load:	21,500		
	A3: 1.57	SA Load:	39,000		
Bridge Inspection Information				Bridge Profile View 	
Date Inspected: 10/20/2009	Structr Adequacy:	5			
Superstr Code: 6	Safe Load:	5			
Substr Code: 5	Deck Geometry:	2			
Deck Code: 6	Underclearance:	9			
Scour: 3	Waterway:	3			
Proposed Bridge Replacement Information					
New Bridge Width: 36 ft.	Bridge \$'s:				
New Bridge Length: 30 ft.	Total \$'s:				
Priority Array #: 22					
PIN Number: 450807A					
WIN Number: D50807A	Repl/Rehab Year:				
Contract Number:	Ad Date:				
<p>THIS BRIDGE IS CLASSIFIED "SD" DUE TO A DECK, SUPER AND SUBSTRUCTURE CONDITION.</p> <p>The ACP is breaking up in the east bound lane with open alligator cracking. Water leaks through the deck before it can run off the bridge. The deck planks are wet, spongy and starting to rot in the area of the breaking up ACP. There are 12 lines of stringers, most of them are wet. Most stringers are mud stained with weather checks in a few locations. The north section of the timber cap @ Pier 2 has a 1.5 inch shell over pile 2A and a 1 inch shell over pile 2C. It has been red tagged and needs to be replaced. Pile 1A is wet, soft and punky. Pile 1B has a vertical split on the NW corner with surface insect infestation. Pile 1D has a vertical split on the south face with surface insect rot up to 1/2 inch deep. Pile 2E is red tagged today with a 1.5 inch shell.</p> <p>P2 Bridge Replacement funding will likely be available in 2011-13.</p>					



P2 Bridge Preservation - Bridge Repair

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Region	Repair Description	Bridge Item\$'s
3	5/104W	DIKE ACCESS RD & RR	Southwest	Replace Steel Exp Joint	\$104,000
23	5/232W	SKOOKUMCHUCK R	Southwest	Repair damage Truss	\$716,705
40	5/102E	SR 503 OC	Southwest	Replace Exp Jnt	\$27,900
41	5/102W	SR 503 OC	Southwest	Replace Exp Jnt	\$27,900
57	500/6	I-205 OC	Southwest	Replace Exp Joints	\$111,000
64	409/10	JULIA BUTLER HANSEN	Southwest	Replace Timber Deck	\$1,500,000
74	4/230	COWLITZ R-P CRAWFOR	Southwest	Steel Truss Deck Joints	\$54,600
76	6/118	CHEHALIS R ADNA	Southwest	Replace Exp Jnt	\$40,000
78	12/306	INDIAN CR	Southwest	Replace Conc Bridge Rail	\$45,000
87	5/40W	LEWIS R	Southwest	Steel Truss Repair	\$250,000
Total Number of Bridges = 10				Totals \$ =	\$2,877,105



P2 Bridge Preservation - Bridge Repair

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Region	Repair Description	Bridge Item\$'s
74	4/230	COWLITZ R-P CRAWFOR	Southwest	Steel Truss Deck Joints	\$54,600
87	5/40W	LEWIS R	Southwest	Steel Truss Repair	\$250,000
40	5/102E	SR 503 OC	Southwest	Replace Exp Jnt	\$27,900
41	5/102W	SR 503 OC	Southwest	Replace Exp Jnt	\$27,900
3	5/104W	DIKE ACCESS RD & RR	Southwest	Replace Steel Exp Joint	\$104,000
23	5/232W	SKOOKUMCHUCK R	Southwest	Repair damage Truss	\$716,705
76	6/118	CHEHALIS R ADNA	Southwest	Replace Exp Jnt	\$40,000
78	12/306	INDIAN CR	Southwest	Replace Conc Bridge Rail	\$45,000
64	409/10	JULIA BUTLER HANSEN	Southwest	Replace Timber Deck	\$1,500,000
57	500/6	I-205 OC	Southwest	Replace Exp Joints	\$111,000
Total Number of Bridges = 10				Totals \$ =	\$2,877,105

Bridge Preservation Program (P2)

Bridge Repair Form

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%		Freight Route		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:		2011-13 Priority#: 74		Repair Year:			
CPMS Ad Date:		Bridge \$'s: \$54,600		Repair Total\$'s: \$109,200					
									
Repair Description: Replace joint material in panel joints in Steel Truss span.									
COMMENTS									
Bridge item\$ based on \$75 / ft , Total Project\$ based on \$150 / ft.									

Bridge Preservation Program (P2)

Bridge Repair Form

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: 46.09FO
Average Daily Traffic: 33,747	Truck% 21%	Freight Route	Num of Lanes: 3	
Date Inspected: 9/21/2009	Structr Adequacy: 3	Superstr Code: 5	Safe Load: 5	
Substr Code: 7	Scour: 5			
BMS Element Num: BMS Element Descr: Steel Truss BMS Element Quantity: 0				
Project Number:	2011-13 Priority#: 87	Repair Year: 2020	2009-11 Priority#:	
CPMS Ad Date:	Bridge \$'s: \$250,000	Repair Total\$'s: \$500,000		
				
Repair Description: Repair sways damaged from overheight truck				
COMMENTS				

Bridge Preservation Program (P2)

Bridge Repair Form

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%		Freight Route T1		Num of Lanes: 3					
Date Inspected: 10/27/2005		Structr Adequacy: 7		Superstr Code: 7		Safe Load: 5					
Substr Code: 7		Scour: N									
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt Down									
BMS Element Quantity: 186 Feet											
Project Number:		2011-13 Priority#:		40							
Repair Year: 2016		2009-11 Priority#:		44							
CPMS Ad Date:		Bridge \$'s:		\$93,000							
		Repair Total\$'s:		\$279,000							
											
<p>Repair Description: Replace the rubber bolt down expansion joints.</p>											
<p>COMMENTS</p>											
<p>The rubber bolt down expansion joints were added to this bridge in 1983. These expansion joints are deteriorated and need to be replaced.</p> <p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>											

Bridge Preservation Program (P2)

Bridge Repair Form

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%		Freight Route T1		Num of Lanes: 3					
Date Inspected: 10/27/2005		Structr Adequacy: 7		Superstr Code: 7		Safe Load: 5					
Substr Code: 7		Scour: N									
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt Down									
BMS Element Quantity: 186 Feet											
Project Number:		2011-13 Priority#:		41							
Repair Year: 2016		2009-11 Priority#:		45							
CPMS Ad Date:		Bridge \$'s:		\$93,000							
		Repair Total\$'s:		\$279,000							
											
<p>Repair Description: Replace the rubber bolt down expansion joints.</p>											
COMMENTS											
<p>The rubber bolt down expansion joints were added to this bridge in 1983. These expansion joints are deteriorated and need to be replaced.</p> <p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>											

Bridge Preservation Program (P2)

Bridge Repair Form

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%		Freight Route T1		Num of Lanes: 3			
Date Inspected: 3/20/2005		Structr Adequacy: 6		Superstr Code: 6		Safe Load: 5			
Substr Code: 7		Scour: N		BMS Element Num: 414		BMS Element Descr: Steel Plate Exp Jnt with Bolts			
BMS Element Quantity: 104		Project Number:		2011-13 Priority#: 3		2009-11 Priority#: 6			
Repair Year: 2012		CPMS Ad Date:		Bridge \$'s: \$208,000		Repair Total\$'s: \$520,000		 	
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 \$2,000 / ft. Total project cost based on \$5,000 / ft.									

Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number: 5 / 232W		Structure ID 0011757B		Bridge Name: SKOOKUMCHUCK R		Milepost: 82.28		Region: Southwest	
Year Built / YR Widened: 1951		Bridge Type: STrus CTB		Bridge Length: 252 ft		Bridge Width (curb-curb): 31.0 ft		Sufficiency Rating: 62.20	
Average Daily Traffic: 34,200		Truck%: 20%		Freight Route:		Num of Lanes: 2			
Date Inspected: 6/28/2008		Structr Adequacy: 5		Superstr Code: 5		Safe Load: 5			
Substr Code: 6		Scour: 3		BMS Element Num:		BMS Element Descr:			
BMS Element Quantity: 0		Project Number:		2011-13 Priority#: 23		2009-11 Priority#:			
Repair Year: 2014		CPMS Ad Date:		Bridge \$'s: \$540,000		Repair Total\$'s: \$1,000,000			
 <p>PHOTO #4</p> <p>SWAY AT US LOOKING EAST</p>					 <p>PHOTO #5</p> <p>VERTICAL L&US EAST</p>				
Repair Description: Repair the damaged steel truss									
COMMENTS									

Bridge Preservation Program (P2)

Bridge Repair Form

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%		Freight Route		Num of Lanes: 2			
Date Inspected: 5/23/2007		Structr Adequacy: 7		Superstr Code: 7		Safe Load: 5			
Substr Code: 7		Scour: 3		BMS Element Num: 414		BMS Element Descr: Steel Plate Exp Jnt			
BMS Element Quantity: 80		Project Number:		2011-13 Priority#: 76		Repair Year:			
CPMS Ad Date:		2009-11 Priority#: 87		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 Preservation Program (P2)

Bridge Repair Form

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%		Freight Route		Num of Lanes: 2			
Date Inspected: 9/5/2006		Structr Adequacy: 6		Superstr Code: 7		Safe Load: 5			
Substr Code: 6		Scour: 3		BMS Element Num: 331		BMS Element Descr: Concrete Bridge Rail			
BMS Element Quantity: 278		Project Number:		2011-13 Priority#: 78		Repair Year:			
CPMS Ad Date:		2009-11 Priority#: 90		Bridge \$'s: \$45,000		Repair Total\$'s: \$100,000			
									
Repair Description: Replace the deteriorated concrete bridge rails.									
COMMENTS									

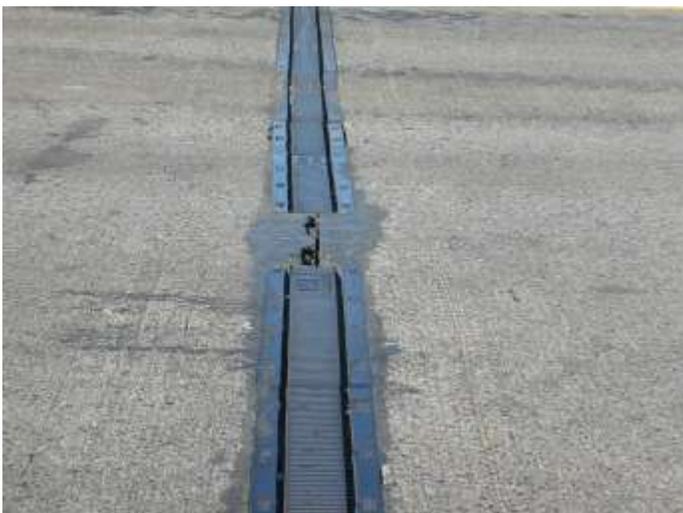
Bridge Preservation Program (P2)

Bridge Repair Form

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: Truck% 2,200	Freight Route	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:	2011-13 Priority#:	64		
Repair Year:	2009-11 Priority#:	74		
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 Preservation Program (P2)

Bridge Repair Form

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%		Freight Route		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:		2011-13 Priority#: 57		Repair Year:			
CPMS Ad Date:		2009-11 Priority#: 67		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.									

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects



2011-13 Bien Priority Array

(Sorted by Priority Number)



09-11 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
14	6/123	CHEHALIS R RIVERSIDE	50.94	Southwest	\$205,992	\$347,096
29	97/6	SWALE CR	8.08	Southwest	\$110,978	\$330,290
56	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	\$958,036	\$2,199,658
Total Number of Bridges = 3				Totals \$ =	\$1,275,005	\$2,877,044





BRIDGE NUMBER: 6 / 123	BRIDGE NAME: CHEHALIS R RIVERSIDE	REGION: Southwest	MILEPOST: 50.94
YEAR BUILT / YR WIDENED: 1939	CONTRACT NO.(S): 02538	SUFFICIENCY RATING: 65.43 FO	
BRIDGE TYPE: STrus TTC DECK TYPE: Conc cast-in-place DECK THICKNESS: 6.5 in. (Main Span)		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: Original Concrete	
BRIDGE WIDTH (curb-curb): 24.0 ft. BRIDGE LENGTH: 1,045 ft. AVERAGE DAILY TRAFFIC (ADT): 11,420 NUMBER OF LANES: 2			
VERTICAL CLEARANCE VC Type: NA			
BRIDGE RAIL BRIDGE RAIL TYPE: WSDOT CODE - 26 Steel Post - Bull Rail RAIL MEETS CURRENT STANDARDS?: NO SIDEWALK / CURB WIDTH: 0.6 Lt 3.5 Rt			
EXPANSION JOINTS Coordinate with your Region Bridge Maintenance to determine if any repairs are needed. Std Plan A40.20, Joint Detail 8 applies at the ends and truss joints on the bridge. (Std Item Number 6517)		DECK PROTECTIVE SYSTEM RECOMMENDATIONS PROTECTIVE OVERLAY RECOMMENDED?: YES TYPE RECOMMENDED: HMA / membrane RESURFACING COMMENT The west approach spans have an asphalt overlay. The rest of the bridge does not have an overlay. Resurfacing project should place 0.15' of HMA with waterproofing membrane on the east approach spans and the steel truss span. Raising the steel expansion joints will be required (48 Ft @ \$600/LF). The total HMA thickness must not exceed 0.15' inches.	
REVIEWED BY: Bruce Thill		DATE: 2/22/2010	



BRIDGE NUMBER: 97 / 6	BRIDGE NAME: SWALE CR	REGION: Southwest	MILEPOST: 8.08
YEAR BUILT / YR WIDENED: 1960	CONTRACT NO.(S): 06413 , 14687	SUFFICIENCY RATING: 70.00 SD	
BRIDGE TYPE: CS DECK TYPE: Conc cast-in-place DECK THICKNESS: (Main Span) 17.0 in.		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: <p style="text-align: center;">MMC Overlay Year Applied - 1989 Overlay Thickness - 1.5 inches</p>	
BRIDGE WIDTH (curb-to-curb): 28.0 ft.	BRIDGE LENGTH: 103 ft.		
AVERAGE DAILY TRAFFIC (ADT): 5,191	NUMBER OF LANES: 2		
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: Conc Base - Type 1B w/Thrie Beam			
RAIL MEETS CURRENT STANDARDS?: YES	SIDEWALK / CURB WIDTH: 2.0 Lt 2.0 Rt		
EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS	
		PROTECTIVE OVERLAY RECOMMENDED?: Yes	TYPE RECOMMENDED: Mod conc
		COMMENTS: Bridge Inspection results indicate nearly 5.0% of the existing concrete overlay and deck is deteriorated. We recommend removing the existing LMC and using a hydromill and applying a 1.5" modified concrete overlay.	
		REVIEWED BY: <i>Bruce Thill</i>	DATE: 2/26/2010



BRIDGE NUMBER: 432 / 10S	BRIDGE NAME: COWLITZ R & NP RY OC	REGION: Southwest	MILEPOST: 9.58	
YEAR BUILT / YR WIDENED: 1961 / 1971	CONTRACT NO.(S): 06321	SUFFICIENCY RATING: 52.27		
BRIDGE TYPE: STrus CBox	EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete			
DECK TYPE: Conc cast-in-place				
DECK THICKNESS: (Main Span) 6.5 in.				
BRIDGE WIDTH (curb-curb): 29.5 ft.				BRIDGE LENGTH: 1,676 ft.
AVERAGE DAILY TRAFFIC (ADT): 17,581				NUMBER OF LANES: 2
VERTICAL CLEARANCE				
VC Type: Minimum VC = 16 FT 03 in				
BRIDGE RAIL				
BRIDGE RAIL TYPE: WSDOT CODE - 60 New Jersey Barrier				
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt		
EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS		
Coordinate with your Region Bridge Maintenance to determine if any repairs are needed.		PROTECTIVE OVERLAY RECOMMENDED?: YES TYPE RECOMMENDED: MC Overlay / Hydro		
		RESURFACING COMMENT Bridge Inspection reports indicate the deck is more than 2% deteriorated with a significant amount of exposed rebar in the top of the deck near piers 9 and 12. We recommend a 1.5" modified concrete overlay be placed with 0.5" hydromill scarification.		
REVIEWED BY: <i>Bruce Thill</i>		DATE: 2/22/2010		

P2 Bridge Preservation - Steel Bridge Painting Projects

2011-13 Bien Priority Array

(Sorted by Priority Number)



11-13 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project\$
1	101/1(B)	COL R ASTORIA (TRUSS)		Southwest	2011	\$18,599,000
1	433/1	COLUMBIA R-LEWIS&CLARK	0.00	Southwest	2010	\$22,000,000
2	5/40W	LEWIS R	19.83	Southwest	2012	\$9,984,000
3	5/40E	LEWIS R	19.87	Southwest	2012	\$7,260,500
4	5/232W	SKOOKUMCHUCK R	82.28	Southwest	2012	\$1,267,000
5	5/232E	SKOOKUMCHUCK R	82.28	Southwest	2012	\$1,267,000
10	141/5	WHITE SALMON RIVER	8.70	Southwest	2012	\$700,000
11	97/1	BIGGS RAPIDS-SAM HILL BR	0.00	Southwest	2014	\$6,000,000
17	409/10	JULIA BUTLER HANSEN BR	2.92	Southwest	2015	\$7,761,000
19	12/309	WILDCAT CR	165.95	Southwest	2015	\$200,000
31	5/203W	COWLITZ R	59.06	Southwest	2017	\$2,205,000
32	5/203E	COWLITZ R	59.06	Southwest	2017	\$2,205,000
35	5/105W	BN RR OC (NP)	26.01	Southwest	2017	\$1,100,000
36	5/104W	DIKE ACCESS RD & RR OC	22.72	Southwest	2017	\$2,227,500
38	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	2017	\$2,226,000
51	12/241	TWIN CANYON CR	89.48	Southwest	2019	\$486,750
55	6/118	CHEHALIS R ADNA	46.59	Southwest	2019	\$783,750
58	504/15	N FK TOUTLE R KID VALLEY	17.29	Southwest	2019	\$602,250
59	4/209	HALF BR W OF BUNKER HILL	49.80	Southwest	2019	\$200,000
60	101/29	SOUTH NEMAH R NO 1	32.52	Southwest	2021	\$200,000
62	4/106A	GRAYS R ROSBURG	15.07	Southwest	2021	\$264,000
75	4/120	SKAMOKAWA CR CS3505	28.92	Southwest	2021	\$547,500

Total Number of Bridges = 22

Total Project \$ = \$88,086,250



P2 Bridge Preservation - Steel Bridge Painting Projects

2011-13 Bien Priority Array

(Sorted by Bridge Number)



11-13 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project\$
62	4/106A	GRAYS R ROSBURG	15.07	Southwest	2021	\$264,000
75	4/120	SKAMOKAWA CR CS3505	28.92	Southwest	2021	\$547,500
59	4/209	HALF BR W OF BUNKER HILL	49.80	Southwest	2019	\$200,000
3	5/40E	LEWIS R	19.87	Southwest	2012	\$7,260,500
2	5/40W	LEWIS R	19.83	Southwest	2012	\$9,984,000
36	5/104W	DIKE ACCESS RD & RR OC	22.72	Southwest	2017	\$2,227,500
35	5/105W	BN RR OC (NP)	26.01	Southwest	2017	\$1,100,000
32	5/203E	COWLITZ R	59.06	Southwest	2017	\$2,205,000
31	5/203W	COWLITZ R	59.06	Southwest	2017	\$2,205,000
5	5/232E	SKOOKUMCHUCK R	82.28	Southwest	2012	\$1,267,000
4	5/232W	SKOOKUMCHUCK R	82.28	Southwest	2012	\$1,267,000
55	6/118	CHEHALIS R ADNA	46.59	Southwest	2019	\$783,750
51	12/241	TWIN CANYON CR	89.48	Southwest	2019	\$486,750
19	12/309	WILDCAT CR	165.95	Southwest	2015	\$200,000
11	97/1	BIGGS RAPIDS-SAM HILL BR	0.00	Southwest	2014	\$6,000,000
1	101/1(B)	COL R ASTORIA (TRUSS)		Southwest	2011	\$18,599,000
60	101/29	SOUTH NEMAH R NO 1	32.52	Southwest	2021	\$200,000
10	141/5	WHITE SALMON RIVER	8.70	Southwest	2012	\$700,000
17	409/10	JULIA BUTLER HANSEN BR	2.92	Southwest	2015	\$7,761,000
38	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	2017	\$2,226,000
1	433/1	COLUMBIA R-LEWIS&CLARK	0.00	Southwest	2010	\$22,000,000
58	504/15	N FK TOUTLE R KID VALLEY	17.29	Southwest	2019	\$602,250

Total Number of Bridges = 22

Total Project \$ = \$88,086,250



Steel Bridge Paint Form

2011-13 Biennium Priorities

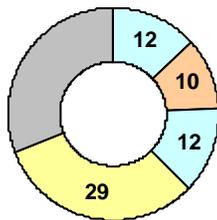


Bridge Number: 4 / 106A		Bridge Name: GRAYS R ROSBURG		Milepost: 15.07	Region: Southwest
Year Built 1947	Bridge Type: SG PCTB	Steel Span Length: 192 ft.	Width (curb-curb): 28 ft.	Steel Tonnage: 96	
Paint Age: 29	Paint Color: Light Green	N/A	Steel Surf. Area: 10,560 sqft	BMS Cond State 2: 2,150 sqft	BMS Cond State 3: 75 sqft
Next Paint Year: 2021	2011-13 Rank: 62	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$264,000

Past Paint History

Years	Cycle
1981	12
1969	10
1959	12
1947	29

Painting Cycle



■ = Current Paint Age



This road was turned over to the county as part of the 1991 RJT transfer. WSDOT still has maintenance responsibility on the bridge. The old bridge number was 403/7.

The paint is still in good condition with a few spot rusting areas on the bottom flange of some steel beams. The next paint contract should exclude the steel members constructed as part of the seismic retrofit at the north and south ends of the steel beam spans.

Steel Bridge Paint Form

2011-13 Biennium Priorities

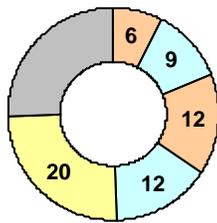


Bridge Number: 4 / 120		Bridge Name: SKAMOKAWA CR CS3505		Milepost: 28.92	Region: Southwest
Year Built 1939	Bridge Type: SG CTB TTT		Steel Span Length: 105 ft.	Width (curb-curb): 24 ft.	Steel Tonnage: 146
Paint Age: 20	Paint Color: 26307 Light Gray	Steel Surf. Area: 21,900 sqft	BMS Cond State 2: 9,000 sqft	BMS Cond State 3: 200 sqft	
Next Paint Year: 2021	2011-13 Rank: 75	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$547,500

Past Paint History

Years	Cycle
1990	12
1978	12
1966	9
1957	6
1951	

Painting Cycle



■ = Current Paint Age



No Photo Available

No Photo Available

This bridge was originally designed to be a movable bridge.

There is dirt and debris up to 6" deep on the bottom flanges of steel through girders at floor beam gussets and next to drain pipes. Many rust spots and blistered paint on top flange. Light rust pack on top flanges of floor beams near ends.

Steel Bridge Paint Form

2011-13 Biennium Priorities

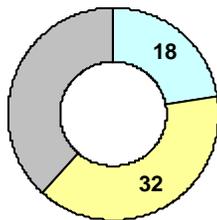


Bridge Number: 4 / 209		Bridge Name: HALF BR W OF BUNKER HILL		Milepost: 49.80	Region: Southwest
Year Built 1930	Bridge Type: SB CS		Steel Span Length: 29 ft.	Width (curb-curb): 26 ft.	Steel Tonnage: 8
Paint Age: 32	Paint Color: Light Green	N/A	Steel Surf. Area: 880 sqft	BMS Cond State 2: 390 sqft	BMS Cond State 3: 50 sqft
Next Paint Year: 2019	2011-13 Rank: 59	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$200,000

Past Paint History

Years	Cycle
1978	18
1950	

Painting Cycle



■ = Current Paint Age



No Photo Available

No Photo Available

The bridge is located at the east approach to the half bridge. The roadway is very narrow in this location making the access and inspection difficult.

The paint is in fair condition. None of the steel beams have significant rusting but a couple of the bolts in the diaphragms are very rusty.

Steel Bridge Paint Form

2011-13 Biennium Priorities

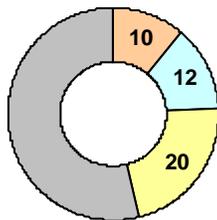


Bridge Number: 5 / 40E		Bridge Name: LEWIS R		Milepost: 19.87	Region: Southwest
Year Built 1968	Bridge Type: ST CBOX		Steel Span Length: 810 ft.	Width (curb-curb): 48 ft.	Steel Tonnage: 1,117
Paint Age: 20	Paint Color: Evergreen	34097	Steel Surf. Area: 167,550 sqft	BMS Cond State 2: 55,850 sqft	BMS Cond State 3: 50,265 sqft
Next Paint Year: 2012	2011-13 Rank: 3	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$7,260,500

Past Paint History

Years	Cycle
1990	12
1978	10
1968	

Painting Cycle



■ = Current Paint Age



The top chords, bottom chords, end posts, end portals and some of the sways need to have full paint removal. The rest of the bridge could be overcoated.

Testing of the paint is needed to see if it can be overcoated.

Bridge Inspector's Note:

Peeling and cracking paint on stringers and floor beams. Up to 30% of surface area of upper truss has surface rust. Paint is peeling on the inside of the bottom chord. Some blistering on the tops of the diagonals.

Steel Bridge Paint Form

2011-13 Biennium Priorities

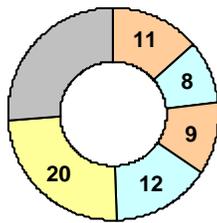


Bridge Number: 5 / 40W		Bridge Name: LEWIS R		Milepost: 19.83	Region: Southwest
Year Built 1940	Bridge Type: ST CTB	Steel Span Length: 810 ft.	Width (curb-curb): 48 ft.	Steel Tonnage: 1,536	
Paint Age: 20	Paint Color: Evergreen	Steel Surf. Area: 230,400 sqft	BMS Cond State 2: 138,240 sqft	BMS Cond State 3: 11,520 sqft	
Next Paint Year: 2012	2011-13 Rank: 2	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$9,984,000

Past Paint History

Years	Cycle
1990	12
1978	9
1969	8
1961	11
1950	

Painting Cycle



■ = Current Paint Age



The top chords, bottom chords, end posts, end portals and some of the sways need to have full paint removal.

Bridge Inspector's notes:

Paint is peeling and cracking over large areas of the steel truss surface. Freckeled rust spots throughout the truss. Primer is visible in many areas due to the loss of the top coat. Portal frame faces are rusty. Top chord, top surfaces of top chords from U1 thru U29 have bare metal visible. Sway frames and cross bracing have bare metal visible. Floorbeams and stringers have many areas of peeling paint with surface rust.

Steel Bridge Paint Form

2011-13 Biennium Priorities

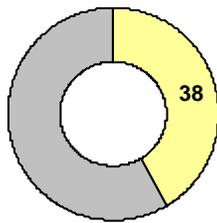


Bridge Number: 5 / 104W		Bridge Name: DIKE ACCESS RD & RR OC		Milepost: 22.72	Region: Southwest
Year Built 1972	Bridge Type: SB		Steel Span Length: 675 ft.	Width (curb-curb): 52 ft.	Steel Tonnage: 810
Paint Age: 38	Paint Color: Steel Gray	G-148	Steel Surf. Area: 89,100 sqft	BMS Cond State 2: 1,000 sqft	BMS Cond State 3: 0 sqft
Next Paint Year: 2017	2011-13 Rank: 36	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$2,227,500

Past Paint History

Years
1972

Painting Cycle



■ = Current Paint Age



No Photo Available

No Photo Available

The paint still looks to be in good condition. There are a few areas of rust staining on the bottom flange of the steel beams.

The cost to replace this bridge is approximately 52'x 675'x \$400/SF = \$14.0 million.

Steel Bridge Paint Form

2011-13 Biennium Priorities



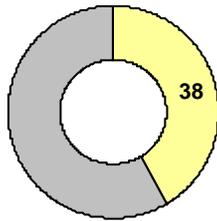
Bridge Number: 5 / 105W		Bridge Name: BN RR OC (NP)		Milepost: 26.01	Region: Southwest
Year Built 1972	Bridge Type: SB		Steel Span Length: 384 ft.	Width (curb-curb): 52 ft.	Steel Tonnage: 400
Paint Age: 38	Paint Color: G-148 Steel Gray	Steel Surf. Area: 44,000 sqft	BMS Cond State 2: 0 sqft	BMS Cond State 3: 880 sqft	
Next Paint Year: 2017	2011-13 Rank: 35	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$1,100,000

Past Paint History

Years
1972

Cycle

Painting Cycle



■ = Current Paint Age



The paint still looks to be in good condition. There are a few areas of rust staining on the bottom flange of the steel beams.

Steel Bridge Paint Form

2011-13 Biennium Priorities

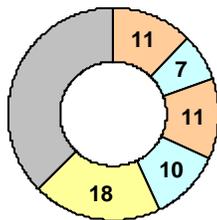


Bridge Number: 5 / 203E		Bridge Name: COWLITZ R		Milepost: 59.06	Region: Southwest
Year Built 1953	Bridge Type: ST CTB		Steel Span Length: 483 ft.	Width (curb-curb): 33 ft.	Steel Tonnage: 588
Paint Age: 18	Paint Color: Evergreen	34097	Steel Surf. Area: 88,200 sqft	BMS Cond State 2: 40,000 sqft	BMS Cond State 3: 1,000 sqft
Next Paint Year: 2017	2011-13 Rank: 32	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$2,205,000

Past Paint History

Years	Cycle
1992	10
1982	11
1971	7
1964	11
1953	11

Painting Cycle



■ = Current Paint Age



First project to use the current 3-part; Zinc prime coat , MC urethane intermediate and final coat.

Bridge Inspection Notes:

There are rust blooms and bare spots throughout. Paint on top of the top chords is weathered with some rust blooms and peeling paint. The sides of top chords, the verticals, and the diagonals are typically moss stained.

The tops of the floorbeam bottom flanges have thick paint with some cracking and flaking over about 10 percent of the surface area.

The tops of stringer bottom flanges have scattered areas of peeling paint.

Steel Bridge Paint Form

2011-13 Biennium Priorities

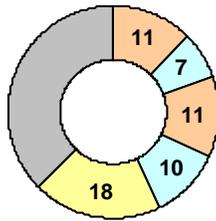


Bridge Number: 5 / 203W		Bridge Name: COWLITZ R		Milepost: 59.06	Region: Southwest
Year Built 1953	Bridge Type: ST CTB		Steel Span Length: 483 ft.	Width (curb-curb): 31.9 ft.	Steel Tonnage: 588
Paint Age: 18	Paint Color: Evergreen	34097	Steel Surf. Area: 88,200 sqft	BMS Cond State 2: 800 sqft	BMS Cond State 3: 100 sqft
Next Paint Year: 2017	2011-13 Rank: 31	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$2,205,000

Past Paint History

Years	Cycle
1992	10
1982	11
1971	7
1964	11
1953	

Painting Cycle



= Current Paint Age

No Photo Available



First project to use the current 3-part; Zinc prime coat , MC urethane intermediate and final coat.

The cost to replace this bridge is approximately 36'x 760'x \$400/SF = \$11.0 million.

Steel Bridge Paint Form

2011-13 Biennium Priorities

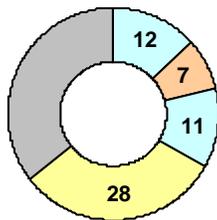


Bridge Number: 5 / 232E		Bridge Name: SKOOKUMCHUCK R		Milepost: 82.28	Region: Southwest
Year Built 1951	Bridge Type: ST CTB	Steel Span Length: 160 ft.	Width (curb-curb): 31 ft.	Steel Tonnage: 181	
Paint Age: 28	Paint Color: Evergreen	Steel Surf. Area: 27,150 sqft	BMS Cond State 2: 14,297 sqft	BMS Cond State 3: 572 sqft	
Next Paint Year: 2012	2011-13 Rank: 5	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$1,267,000

Past Paint History

Years	Cycle
1982	11
1971	7
1964	12
1952	28

Painting Cycle



■ = Current Paint Age



This bridge was going to be replaced but due to estimated high project costs the SW Region decided to leave this bridge in service and build a parallel Collector/Distributor ramp bridge.

This paint on this bridge is the oldest of any WSDOT steel truss bridge not to be replaced.

The next painting project (around 2013) will require full removal of the existing paint using an SSPC-SP6 standard and then applying a new zinc-moisture cured urethane paint system.

Steel Bridge Paint Form

2011-13 Biennium Priorities

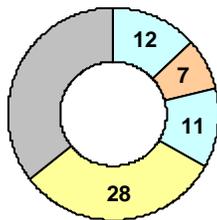


Bridge Number: 5 / 232W		Bridge Name: SKOOKUMCHUCK R		Milepost: 82.28	Region: Southwest
Year Built 1951	Bridge Type: ST CTB	Steel Span Length: 160 ft.	Width (curb-curb): 31 ft.	Steel Tonnage: 181	
Paint Age: 28	Paint Color: Evergreen	Steel Surf. Area: 27,150 sqft	BMS Cond State 2: 5,000 sqft	BMS Cond State 3: 1,500 sqft	
Next Paint Year: 2012	2011-13 Rank: 4	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$1,267,000

Past Paint History

Years	Cycle
1982	11
1971	7
1964	12
1952	28

Painting Cycle



= Current Paint Age



This bridge was going to be replaced but due to estimated high project costs the SW Region decided to leave this bridge in service and build a parallel Collector/Distributor ramp bridge.

This paint on this bridge is the oldest of any WSDOT bridge not to be replaced.

The next painting project (around 2013) will require full removal of the existing paint using an SSPC-SP6 standard and then applying a new zinc-moisture cured urethane paint system.

Steel Bridge Paint Form

2011-13 Biennium Priorities

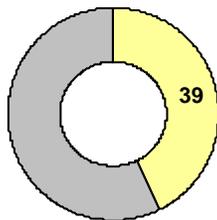


Bridge Number: 6 / 118		Bridge Name: CHEHALIS R ADNA		Milepost: 46.59	Region: Southwest
Year Built 1971	Bridge Type: SB		Steel Span Length: 406 ft.	Width (curb-curb): 40 ft.	Steel Tonnage: 285
Paint Age: 39	Paint Color: Steel Gray	G-148	Steel Surf. Area: 31,350 sqft	BMS Cond State 2: 12,000 sqft	BMS Cond State 3: 30 sqft
Next Paint Year: 2019	2011-13 Rank: 55	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$783,750

Past Paint History

Years
1971

Painting Cycle



■ = Current Paint Age



The steel beams are a combination of A588 weathering steel and A441. The areas under the expansion joints at piers 1 & 4 are A441.

Bridge Inspection Notes:

Chalky thin paint on body of girder webs. Several 1" diameter paint chips on outside girders. Girders have newer paint on the west face compared to the rest of the girders. Girder 2B has paint blistered off the flange connection bolts.

Steel Bridge Paint Form

2011-13 Biennium Priorities

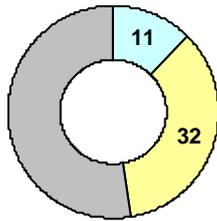


Bridge Number: 12 / 241		Bridge Name: TWIN CANYON CR		Milepost: 89.48	Region: Southwest
Year Built 1967	Bridge Type: SB		Steel Span Length: 410 ft.	Width (curb-curb): 28 ft.	Steel Tonnage: 177
Paint Age: 32	Paint Color: Light Brown	30277	Steel Surf. Area: 19,470 sqft	BMS Cond State 2: 402 sqft	BMS Cond State 3: 27 sqft
Next Paint Year: 2019	2011-13 Rank: 51	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$486,750

Past Paint History

Years	Cycle
1978	11
1967	

Painting Cycle



■ = Current Paint Age



The bridge has three steel girders with a 7'-4" height and spaced 11.5' apart.

Steel Bridge Paint Form

2011-13 Biennium Priorities

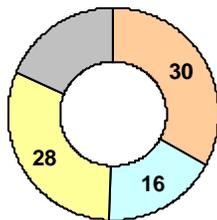


Bridge Number: 12 / 309		Bridge Name: WILDCAT CR		Milepost: 165.95	Region: Southwest
Year Built 1936	Bridge Type: SB TTT		Steel Span Length: 35 ft.	Width (curb-curb): 26 ft.	Steel Tonnage: 10
Paint Age: 28	Paint Color: 30318 Warm Conc Gray	Steel Surf. Area: 1,100 sqft	BMS Cond State 2: 110 sqft	BMS Cond State 3: 110 sqft	
Next Paint Year: 2015	2011-13 Rank: 19	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$200,000

Past Paint History

Years	Cycle
1982	16
1966	30
1936	

Painting Cycle



■ = Current Paint Age



Bridge Inspector's Notes:

Paint has failed in many areas but mostly at east end of girders and diaphragm over Pier 5. Rust blooms in several areas of the girder flanges.

Steel Bridge Paint Form

2011-13 Biennium Priorities

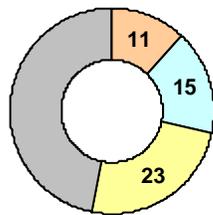


Bridge Number: 97 / 1		Bridge Name: BIGGS RAPIDS-SAM HILL BR		Milepost: 0.00	Region: Southwest
Year Built 1962	Bridge Type: ST SB		Steel Span Length: 2567 ft.	Width (curb-curb): 26 ft.	Steel Tonnage: 1,847
Paint Age: 23	Paint Color: Warm Brown	30099	Steel Surf. Area: 277,050 sqft	BMS Cond State 2: 133,000 sqft	BMS Cond State 3 81,200 sqft
Next Paint Year: 2014	2011-13 Rank: 11	Past Due/Due/OK Past Due	CPMS Ad date: 5/7/2014	Paint Pin Number: 409712P	Future Paint Cost: \$12,605,100

Years

Years	Cycle
1988	15
1973	11
1962	

Painting Cycle



■ = Current Paint Age



This is a border bridge that is maintained by Washington and reimbursed 50% by Oregon. There is one steel truss main span with steel girder approach spans. The bridge deck was replaced in 2009.

Bridge Inspection notes:

The paint is peeling and curling with exposed and rusty spots on the webs of the girders.

Bridge Office Recommendations:

Full removal of the existing paint and apply a new three coat moisture cured urethane paint.

Steel Bridge Paint Form

2011-13 Biennium Priorities



Bridge Number: 101 / 29		Bridge Name: SOUTH NEMAH R NO 1		Milepost: 32.52	Region: Southwest
Year Built 1957	Bridge Type: SB		Steel Span Length: 48 ft.	Width (curb-curb): 29 ft.	Steel Tonnage: 20
Paint Age: 32	Paint Color: N/A	N/A	Steel Surf. Area: 2,200 sqft	BMS Cond State 2: 1,750 sqft	BMS Cond State 3: 220 sqft
Next Paint Year: 2021	2011-13 Rank: 60	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$200,000

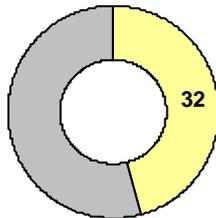
Past Paint History

Years

1978

Cycle

Painting Cycle



■ = Current Paint Age



Since this bridge has a small tonnage the region's maintenance personnel may be able to paint the rusted areas with the "Devoe" rust penetrating sealer.

Bridge Inspector's note:

Paint blisters along girder flanges with rust under the blisters and rust blooms all over webs. Paint failed with heavy rust at several bottom flange splice plates.

Steel Bridge Paint Form

2011-13 Biennium Priorities



Bridge Number: 101 / 1(B)		Bridge Name: COL R ASTORIA - OR SIDE		Milepost: 0.00	Region: Southwest
Year Built	Bridge Type: ST SG		Steel Span Length: ft.	Width (curb-curb): ft.	Steel Tonnage:
Paint Age:	Paint Color:	Steel Surf. Area: sqft	BMS Cond State 2: sqft	BMS Cond State 3: sqft	
Next Paint Year: 2011	2011-13 Rank: 1	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$18,599,000

Past Paint History

Years
Cycle

Painting Cycle

= Current Paint Age



No Photo Available

No Photo Available

The Oregon DOT maintains the US 101 Astoria bridge. ODOT is scheduled to repaint the steel spans on the Oregon/Astoria side in 2011. WSDOT will pay 1/2 of the project costs.

Steel Bridge Paint Form

2011-13 Biennium Priorities

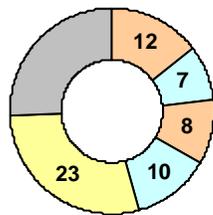


Bridge Number: 141 / 5		Bridge Name: WHITE SALMON RIVER		Milepost: 8.70	Region: Southwest
Year Built 1940	Bridge Type: ST CTB		Steel Span Length: 120 ft.	Width (curb-curb): 27 ft.	Steel Tonnage: 96
Paint Age: 23	Paint Color: Evergreen	34097	Steel Surf. Area: 21,717 sqft	BMS Cond State 2: 4,600 sqft	BMS Cond State 3 7,200 sqft
Next Paint Year: 2014	2011-13 Rank: 10	Past Due/Due/OK Past Due	CPMS Ad date: 5/7/2014	Paint Pin Number: 414110P	Future Paint Cost: \$860,524

Years

Years	Cycle
1988	10
1978	8
1970	7
1963	12
1951	

Painting Cycle



■ = Current Paint Age



STRINGERS: Rust stains and light rust on the top flanges.
 TRUSS: The paint has failed on many members of the steel truss. The amount of paint failure (over 53%) on the trusses warrants full removal. Planned costs are estimated to be:
 Total cost per surface Area is \$39.6/SF (21,717 / \$860,524)
 Total cost per tonnage is \$8,963/ton (\$860,524 / 96)
 Total cost per deck area is \$265.6/SF (\$860,524 / 3,240)
 Bridge Replacement cost is estimated to be \$7.7 million (40'x193' x \$1,000)

Bridge Office Recommendations:

Full removal of the existing paint and apply a new three coat moisture cured urethane paint.

Steel Bridge Paint Form

2011-13 Biennium Priorities

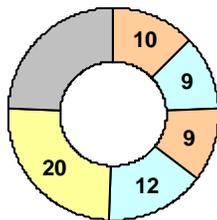


Bridge Number: 409 / 10		Bridge Name: JULIA BUTLER HANSEN BR		Milepost: 2.92	Region: Southwest
Year Built 1938	Bridge Type: ST PCB SG CTB	Steel Span Length: 1274 ft.	Width (curb-curb): 20 ft.	Steel Tonnage: 1,194	
Paint Age: 20	Paint Color: 26307 Light Gray	Steel Surf. Area: 179,100 sqft	BMS Cond State 2: 89,550 sqft	BMS Cond State 3: 17,910 sqft	
Next Paint Year: 2015	2011-13 Rank: 17	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$7,761,000

Past Paint History

Years	Cycle
1990	12
1978	9
1969	9
1960	10
1950	

Painting Cycle



■ = Current Paint Age



Portions of the bridge will require full removal of the exiting paint.

Bridge Inspector's notes:

Floorbeams in general have thin chalky paint and essentially no topcoat. Many stringers have thin and flaking paint on flanges. Welded steel girders in Span 13 have small areas of flaking and thin paint as well as holidays. Piers 16 and 17 steel columns have peeling rough paint on struts and cross bracing. There are many areas of peeling paint and thin or no paint inside the bottom chord especially at the joints. Thin, missing, peeled off and rusty paint on 25% of the bottom chord and diagonals. L21-L22 west truss shows typical rust blooms and paint condition of truss members. Top sways, cross bracing and top chords have many paint holidays in the topcoat, thin paint and rusty spots on 10% of area.

Steel Bridge Paint Form

2011-13 Biennium Priorities

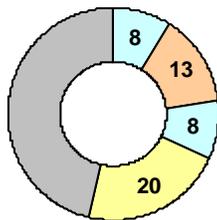


Bridge Number: 432 / 10S		Bridge Name: COWLITZ R & NP RY OC		Milepost: 9.58	Region: Southwest
Year Built 1961	Bridge Type: ST CBOX	Steel Span Length: 300 ft.	Width (curb-curb): 29.5 ft.	Steel Tonnage: 318	
Paint Age: 20	Paint Color: Evergreen	34097	Steel Surf. Area: 47,700 sqft	BMS Cond State 2: 13,000 sqft	BMS Cond State 3: 1,000 sqft
Next Paint Year: 2017	2011-13 Rank: 38	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$2,226,000

Past Paint History

Years	Cycle
1990	8
1982	13
1969	8
1961	8

Painting Cycle



■ = Current Paint Age



Bridge Inspection Notes:

Peeling paint is typical throughout the truss. There is surface rust on the stringers, floorbeams, and sway bracing. The truss shows bare metal in places, especially on the south side surfaces.

Stringers - There are five stringers per panel. There is rusting in spots, including surface pitting and minor section loss at the top flange including the copes. There are mud and rust stains at all the seats.

Floorbeams - There are eleven 2ft. 10in. deep floorbeams in Span 7 that have rusting top flanges and laminar rust forming at some locations. The floorbeams are covered with mud and rust staining.

Steel Bridge Paint Form

2011-13 Biennium Priorities

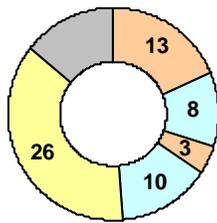


Bridge Number: 433 / 1		Bridge Name: COLUMBIA R-LEWIS&CLARK B		Milepost: 0.00	Region: Southwest
Year Built 1929	Bridge Type: ST SB		Steel Span Length: 5478 ft.	Width (curb-curb): 34.2 ft.	Steel Tonnage: 14,236
Paint Age: 26	Paint Color: Steel Gray	26329	Steel Surf. Area: 2,135,400 sqft	BMS Cond State 2: 438,600 sqft	BMS Cond State 3: 110,000 sqft
Next Paint Year: 2010	2011-13 Rank: 1	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$22,000,000

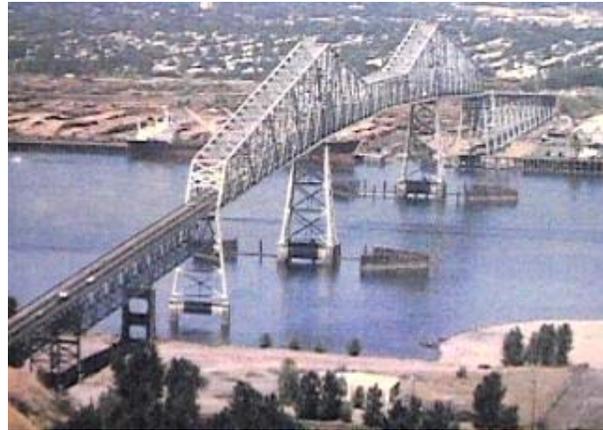
Past Paint History

Years	Cycle
1984	10
1974	3
1971	8
1963	13
1950	

Painting Cycle



■ = Current Paint Age



A contract from 2006 thru 2008 painted the Oregon approach to the main truss span and the superstructure of the Washington approach.

The existing paint is deteriorating and in need of replacement with a new paint system. A contract in 2009 will paint the main span towers (Piers 1,2,3) and the towers under the Washington Approach span. Based on a visual inspection a decision has been made to totally removal all the existing paint and replace it with a new 3 coat system.

A Stimulus funded project in the amount of \$12.5 million is planned for 2010 to paint portions of the main truss. A future project in 2012 or 2013 will finish painting the main truss span. The painting project will be administered by WSDOT with ODOT participating in 1/2 of the total costs.

Steel Bridge Paint Form

2011-13 Biennium Priorities

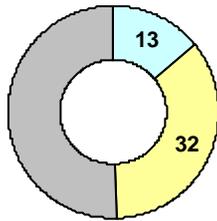


Bridge Number: 504 / 15		Bridge Name: N FK TOUTLE R KID VALLEY		Milepost: 17.29	Region: Southwest
Year Built 1965	Bridge Type: SB PCB		Steel Span Length: 424 ft.	Width (curb-curb): 28 ft.	Steel Tonnage: 219
Paint Age: 32	Paint Color: 30277 Light Brown	Steel Surf. Area: 24,090 sqft	BMS Cond State 2: 200 sqft	BMS Cond State 3: 50 sqft	
Next Paint Year: 2019	2011-13 Rank: 58	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$602,250

Past Paint History

Years	Cycle
1978	13
1965	32

Painting Cycle



■ = Current Paint Age



No Photo Available

Bridge Inspector's Note:

The paint has rusty scatches and occational rust blooms throughout.

P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
140	5/233	HARRISON AVE OC	82.74	Southwest	\$322,817	\$581,071
141	5/232W	SKOOKUMCHUCK R	82.28	Southwest	\$11,000	\$19,800
142	5/232E	SKOOKUMCHUCK R	82.28	Southwest	\$11,000	\$19,800
143	5/230	SR 507 MELLEN ST OC	81.67	Southwest	\$712,426	\$1,282,367
307	401/10	NASELLE R	11.37	Southwest	\$375,293	\$675,527
309	7/25	NISQUALLY R	16.74	Southwest	\$22,000	\$39,600
320	6/13	WILLAPA R	14.02	Southwest	\$170,478	\$306,860
349	6/124E-S	E-S RAMP DILLENBAUGH CR	51.33	Southwest		\$3,926,000
350	5/223N-W	N-W RAMP DILLENBAUGH CR	77.96	Southwest		
364	5/228	SALZER CR	80.21	Southwest	\$62,150	\$111,870
365	5/40W	LEWIS R	19.83	Southwest	\$1,400,768	\$2,521,382
366	5/222	CM&E RR OC (CW)	77.51	Southwest	\$305,415	\$549,747
367	5/221	NP RY O'XING	77.12	Southwest	\$1,886,033	\$3,394,859
370	5/206	LACAMAS CR	61.31	Southwest	\$587,384	\$1,057,290
371	500/6	I-205 OC	4.77	Southwest	\$274,780	\$494,604
372	205/16W	BURTON RD OC	29.79	Southwest	\$93,396	\$168,112
373	205/16E	BURTON RD OC	29.79	Southwest	\$92,835	\$167,102
374	14/25	WEST CAMAS SL	12.62	Southwest		
376	500/5	SR 500 OC, 4TH PLAIN RD	4.44	Southwest	\$387,596	\$697,673
377	4/230	COWLITZ R-P CRAWFORD BR	61.08	Southwest	\$3,996,955	\$7,194,518
378	5/102E	SR 503 OC	21.08	Southwest	\$147,890	\$266,201
379	5/36W	E FK LEWIS R	18.21	Southwest	\$897,507	\$1,615,512
380	5/102W	SR 503 OC	21.08	Southwest	\$144,656	\$260,380
381	5/216W	NEWAUKUM R	72.23	Southwest	\$49,500	\$89,100
382	5/216E	NEWAUKUM R	72.23	Southwest	\$49,500	\$89,100
383	5/104W	DIKE ACCESS RD & RR OC	22.72	Southwest	\$11,000	\$19,800
384	5/107W	TODD RD OC	27.70	Southwest	\$119,812	\$215,662
385	5/105W	BN RR OC (NP)	26.01	Southwest	\$150,656	\$271,181
388	5/127W	C&C RY & COUNTY RD OC	42.02	Southwest	\$232,903	\$419,225
389	5/127E	C&C RY & COUNTY RD OC	42.02	Southwest	\$217,267	\$391,080
391	5/28W	SR 502 OC	9.51	Southwest	\$131,731	\$237,115
392	5/28E	SR 502 OC KOZY KAMP	9.51	Southwest	\$127,958	\$230,324
399	5/133E	HUNTINGTON AVE OC	47.97	Southwest	\$126,456	\$227,621
400	5/133W	HUNTINGTON AVE OC	47.97	Southwest	\$136,510	\$245,718
406	205/20	I-205 OC, 4TH PLAIN BLVD	31.11	Southwest	\$460,427	\$828,769
408	5/203W	COWLITZ R	59.06	Southwest	\$427,801	\$770,042
409	5/203E	COWLITZ R	59.06	Southwest	\$427,801	\$770,042
413	205/28	I-205 OC, NE 78TH ST	32.61	Southwest	\$384,615	\$692,307
414	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	\$1,294,502	\$2,330,104



P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
415	432/10N	HARRY MORGAN BRIDGE	9.58	Southwest	\$1,167,172	\$2,100,909
416	205/42W	SALMON CR & AVE OC	36.00	Southwest	\$99,825	\$179,685
417	205/34E	LP & N RY OC	34.00	Southwest	\$133,359	\$240,045
418	205/34W	LP & N RY	34.00	Southwest	\$134,156	\$241,481
419	205/36E	ST JOHNS RD OC	34.29	Southwest	\$94,232	\$169,617
420	205/42E	SALMON CR & AVE OC	36.00	Southwest	\$107,470	\$193,446
421	205/36W	ST JOHNS RD OC	34.29	Southwest	\$89,342	\$160,816
422	432/12	SR 432 OC I-5	10.29	Southwest	\$246,895	\$444,411
423	5/227	I-5 OC, CHAMBER WAY	79.08	Southwest	\$176,000	\$316,800
427	14/30	27TH ST & BN RY OC	16.73	Southwest	\$190,267	\$342,481
447	14/12	SR 14 OC, LIESER RD	4.35	Southwest	\$48,296	\$86,932
451	504/1	I-5 OC	0.00	Southwest	\$80,498	\$144,896
452	205/32	I-205 OC, NE ANDRESEN RD	33.52	Southwest	\$153,428	\$276,170
453	205/14	I-205 OC, NE 18TH ST	29.34	Southwest	\$103,109	\$185,595
454	122/10	MOSSYROCK	6.56	Southwest	\$417,027	\$750,648
455	12/221	I-5 OC	66.54	Southwest	\$166,188	\$299,138
456	432/8S	3RD AVE OC	7.62	Southwest	\$297,314	\$535,164
458	205/30S	I-205 OC, NE 83RD ST	33.04	Southwest	\$119,070	\$214,325
459	205/30N	PADDEN PKWY OVER I-205	33.04	Southwest	\$174,856	\$314,741
460	205/10	I-205 OC, NE 9TH ST	28.83	Southwest	\$190,025	\$342,045
462	6/118	CHEHALIS R ADNA	46.59	Southwest	\$55,000	\$99,000
467	205/38	I-205 OC, NE 50TH AVE	34.82	Southwest	\$99,468	\$179,042
471	14/35	BN RR OC	18.77	Southwest	\$220,864	\$397,554
472	12/265	COWLITZ R CORA	122.76	Southwest	\$358,160	\$644,688
473	14/13	SR 14 OC, ELLSWORTH RD	5.57	Southwest	\$59,043	\$106,277
475	12/245	LAKE CR	96.88	Southwest	\$118,008	\$212,414
476	205/44	I-205 OC, NE 134TH ST	36.75	Southwest	\$284,169	\$511,503
477	205/40	I-205 OC, NE 119TH ST	35.65	Southwest	\$194,970	\$350,945
478	205/46	I-205 OC, NE 20TH AVE	36.90	Southwest	\$279,158	\$502,484
481	14/115	BN OC	40.48	Southwest	\$227,172	\$408,910
482	501/24	I-5 OC	19.84	Southwest	\$163,273	\$293,891
483	7/9	CW RR OC(CMSTPP)LINDBER	2.47	Southwest	\$646,140	\$1,163,052
486	505/125	I-5 OC	2.94	Southwest	\$312,802	\$563,043
493	12/282	CLEAR FORK CR	138.06	Southwest	\$830,610	\$1,495,098
494	5/225	I-5 OC (WEST ST)	78.40	Southwest	\$209,039	\$376,269
495	122/5	TILTON	3.57	Southwest	\$814,000	\$1,465,200
496	12/304	N FK CLEAR CR	153.44	Southwest	\$202,516	\$364,528
498	4/125	ELOCHOMAN RIVER	33.71	Southwest	\$11,000	\$19,800
499	12/280	PURCELL CREEK	137.19	Southwest	\$89,964	\$161,934



P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
500	12/289	GULCH	144.89	Southwest	\$294,949	\$530,907
503	409/5	BIRNIE SL	1.78	Southwest	\$82,500	\$148,500
504	5/110	I-5 OC, OAK STREET	30.65	Southwest	\$158,026	\$284,447
506	4/110	GRAYS R	19.30	Southwest	\$11,000	\$19,800
509	503/112	JIM CR	39.55	Southwest	\$186,445	\$335,600
510	6/20	BN RR OC (NP)	19.90	Southwest	\$261,800	\$471,240
512	506/108	I-5 OC	11.50	Southwest	\$158,059	\$284,506
513	5/29	NE 199TH ST OVER I-5	10.53	Southwest	\$202,065	\$363,716
515	506/102	STILLWATER CR	4.69	Southwest	\$233,382	\$420,087
517	5/129	I-5 OC, PLEASANT HILL RD	43.20	Southwest	\$135,515	\$243,926
519	505/102	SALMON CR	16.40	Southwest	\$251,774	\$453,192
520	205/24	I-205 OC, NE 63RD ST	31.79	Southwest	\$137,390	\$247,302
521	5/128	I-5 OC, ROCKY PT	42.66	Southwest	\$135,212	\$243,382
522	508/32	TILTON R	32.25	Southwest	\$160,094	\$288,169
523	506/2	CAMPBELL CR	0.90	Southwest	\$72,188	\$129,938
524	5/31	I-5 OC, CARTY RD	12.56	Southwest	\$110,715	\$199,287
525	5/131	I-5 OC, HQ RD	46.13	Southwest	\$184,113	\$331,403
528	5/134	I-5 OC, POWELL	49.17	Southwest	\$195,767	\$352,381
529	5/33	NW LA CENTER RD OVER I-5	16.80	Southwest	\$140,388	\$252,698
532	14/23S-E	SR 14 OC, NE 6TH AVE	12.32	Southwest	\$128,332	\$230,997
533	5/113	I-5 OC, KALAMA R RD	32.28	Southwest	\$36,284	\$65,310
Total Number of Bridges = 99				Total\$ =	\$28,890,681	\$55,929,225

P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
506	4/110	GRAYS R	19.30	Southwest	\$11,000	\$19,800
498	4/125	ELOCHOMAN RIVER	33.71	Southwest	\$11,000	\$19,800
377	4/230	COWLITZ R-P CRAWFORD BR	61.08	Southwest	\$3,996,955	\$7,194,518
392	5/28E	SR 502 OC KOZY KAMP	9.51	Southwest	\$127,958	\$230,324
391	5/28W	SR 502 OC	9.51	Southwest	\$131,731	\$237,115
513	5/29	NE 199TH ST OVER I-5	10.53	Southwest	\$202,065	\$363,716
524	5/31	I-5 OC, CARTY RD	12.56	Southwest	\$110,715	\$199,287
529	5/33	NW LA CENTER RD OVER I-5	16.80	Southwest	\$140,388	\$252,698
379	5/36W	E FK LEWIS R	18.21	Southwest	\$897,507	\$1,615,512
365	5/40W	LEWIS R	19.83	Southwest	\$1,400,768	\$2,521,382
378	5/102E	SR 503 OC	21.08	Southwest	\$147,890	\$266,201
380	5/102W	SR 503 OC	21.08	Southwest	\$144,656	\$260,380
383	5/104W	DIKE ACCESS RD & RR OC	22.72	Southwest	\$11,000	\$19,800
385	5/105W	BN RR OC (NP)	26.01	Southwest	\$150,656	\$271,181
384	5/107W	TODD RD OC	27.70	Southwest	\$119,812	\$215,662
504	5/110	I-5 OC, OAK STREET	30.65	Southwest	\$158,026	\$284,447
533	5/113	I-5 OC, KALAMA R RD	32.28	Southwest	\$36,284	\$65,310
389	5/127E	C&C RY & COUNTY RD OC	42.02	Southwest	\$217,267	\$391,080
388	5/127W	C&C RY & COUNTY RD OC	42.02	Southwest	\$232,903	\$419,225
521	5/128	I-5 OC, ROCKY PT	42.66	Southwest	\$135,212	\$243,382
517	5/129	I-5 OC, PLEASANT HILL RD	43.20	Southwest	\$135,515	\$243,926
525	5/131	I-5 OC, HQ RD	46.13	Southwest	\$184,113	\$331,403
399	5/133E	HUNTINGTON AVE OC	47.97	Southwest	\$126,456	\$227,621
400	5/133W	HUNTINGTON AVE OC	47.97	Southwest	\$136,510	\$245,718
528	5/134	I-5 OC, POWELL	49.17	Southwest	\$195,767	\$352,381
409	5/203E	COWLITZ R	59.06	Southwest	\$427,801	\$770,042
408	5/203W	COWLITZ R	59.06	Southwest	\$427,801	\$770,042
370	5/206	LACAMAS CR	61.31	Southwest	\$587,384	\$1,057,290
382	5/216E	NEWAUKUM R	72.23	Southwest	\$49,500	\$89,100
381	5/216W	NEWAUKUM R	72.23	Southwest	\$49,500	\$89,100
367	5/221	NP RY O'XING	77.12	Southwest	\$1,886,033	\$3,394,859
366	5/222	CM&E RR OC (CW)	77.51	Southwest	\$305,415	\$549,747
350	5/223N-W	N-W RAMP DILLENBAUGH CR	77.96	Southwest		
494	5/225	I-5 OC (WEST ST)	78.40	Southwest	\$209,039	\$376,269
423	5/227	I-5 OC, CHAMBER WAY	79.08	Southwest	\$176,000	\$316,800
364	5/228	SALZER CR	80.21	Southwest	\$62,150	\$111,870
143	5/230	SR 507 MELLEN ST OC	81.67	Southwest	\$712,426	\$1,282,367
142	5/232E	SKOOKUMCHUCK R	82.28	Southwest	\$11,000	\$19,800
141	5/232W	SKOOKUMCHUCK R	82.28	Southwest	\$11,000	\$19,800
140	5/233	HARRISON AVE OC	82.74	Southwest	\$322,817	\$581,071



P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
320	6/13	WILLAPA R	14.02	Southwest	\$170,478	\$306,860
510	6/20	BN RR OC (NP)	19.90	Southwest	\$261,800	\$471,240
462	6/118	CHEHALIS R ADNA	46.59	Southwest	\$55,000	\$99,000
349	6/124E-S	E-S RAMP DILLENBAUGH CR	51.33	Southwest		\$3,926,000
483	7/9	CW RR OC(CMSTPP)LINDBER	2.47	Southwest	\$646,140	\$1,163,052
309	7/25	NISQUALLY R	16.74	Southwest	\$22,000	\$39,600
455	12/221	I-5 OC	66.54	Southwest	\$166,188	\$299,138
475	12/245	LAKE CR	96.88	Southwest	\$118,008	\$212,414
472	12/265	COWLITZ R CORA	122.76	Southwest	\$358,160	\$644,688
499	12/280	PURCELL CREEK	137.19	Southwest	\$89,964	\$161,934
493	12/282	CLEAR FORK CR	138.06	Southwest	\$830,610	\$1,495,098
500	12/289	GULCH	144.89	Southwest	\$294,949	\$530,907
496	12/304	N FK CLEAR CR	153.44	Southwest	\$202,516	\$364,528
447	14/12	SR 14 OC, LIESER RD	4.35	Southwest	\$48,296	\$86,932
473	14/13	SR 14 OC, ELLSWORTH RD	5.57	Southwest	\$59,043	\$106,277
532	14/23S-E	SR 14 OC, NE 6TH AVE	12.32	Southwest	\$128,332	\$230,997
374	14/25	WEST CAMAS SL	12.62	Southwest		
427	14/30	27TH ST & BN RY OC	16.73	Southwest	\$190,267	\$342,481
471	14/35	BN RR OC	18.77	Southwest	\$220,864	\$397,554
481	14/115	BN OC	40.48	Southwest	\$227,172	\$408,910
495	122/5	TILTON	3.57	Southwest	\$814,000	\$1,465,200
454	122/10	MOSSYROCK	6.56	Southwest	\$417,027	\$750,648
460	205/10	I-205 OC, NE 9TH ST	28.83	Southwest	\$190,025	\$342,045
453	205/14	I-205 OC, NE 18TH ST	29.34	Southwest	\$103,109	\$185,595
373	205/16E	BURTON RD OC	29.79	Southwest	\$92,835	\$167,102
372	205/16W	BURTON RD OC	29.79	Southwest	\$93,396	\$168,112
406	205/20	I-205 OC, 4TH PLAIN BLVD	31.11	Southwest	\$460,427	\$828,769
520	205/24	I-205 OC, NE 63RD ST	31.79	Southwest	\$137,390	\$247,302
413	205/28	I-205 OC, NE 78TH ST	32.61	Southwest	\$384,615	\$692,307
459	205/30N	PADDEN PKWY OVER I-205	33.04	Southwest	\$174,856	\$314,741
458	205/30S	I-205 OC, NE 83RD ST	33.04	Southwest	\$119,070	\$214,325
452	205/32	I-205 OC, NE ANDRESEN RD	33.52	Southwest	\$153,428	\$276,170
417	205/34E	LP & N RY OC	34.00	Southwest	\$133,359	\$240,045
418	205/34W	LP & N RY	34.00	Southwest	\$134,156	\$241,481
419	205/36E	ST JOHNS RD OC	34.29	Southwest	\$94,232	\$169,617
421	205/36W	ST JOHNS RD OC	34.29	Southwest	\$89,342	\$160,816
467	205/38	I-205 OC, NE 50TH AVE	34.82	Southwest	\$99,468	\$179,042
477	205/40	I-205 OC, NE 119TH ST	35.65	Southwest	\$194,970	\$350,945
420	205/42E	SALMON CR & AVE OC	36.00	Southwest	\$107,470	\$193,446
416	205/42W	SALMON CR & AVE OC	36.00	Southwest	\$99,825	\$179,685



P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
476	205/44	I-205 OC, NE 134TH ST	36.75	Southwest	\$284,169	\$511,503
478	205/46	I-205 OC, NE 20TH AVE	36.90	Southwest	\$279,158	\$502,484
307	401/10	NASELLE R	11.37	Southwest	\$375,293	\$675,527
503	409/5	BIRNIE SL	1.78	Southwest	\$82,500	\$148,500
456	432/8S	3RD AVE OC	7.62	Southwest	\$297,314	\$535,164
415	432/10N	HARRY MORGAN BRIDGE	9.58	Southwest	\$1,167,172	\$2,100,909
414	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	\$1,294,502	\$2,330,104
422	432/12	SR 432 OC I-5	10.29	Southwest	\$246,895	\$444,411
376	500/5	SR 500 OC, 4TH PLAIN RD	4.44	Southwest	\$387,596	\$697,673
371	500/6	I-205 OC	4.77	Southwest	\$274,780	\$494,604
482	501/24	I-5 OC	19.84	Southwest	\$163,273	\$293,891
509	503/112	JIM CR	39.55	Southwest	\$186,445	\$335,600
451	504/1	I-5 OC	0.00	Southwest	\$80,498	\$144,896
519	505/102	SALMON CR	16.40	Southwest	\$251,774	\$453,192
486	505/125	I-5 OC	2.94	Southwest	\$312,802	\$563,043
523	506/2	CAMPBELL CR	0.90	Southwest	\$72,188	\$129,938
515	506/102	STILLWATER CR	4.69	Southwest	\$233,382	\$420,087
512	506/108	I-5 OC	11.50	Southwest	\$158,059	\$284,506
522	508/32	TILTON R	32.25	Southwest	\$160,094	\$288,169
Total Number of Bridges = 99				Total\$ =	\$28,890,681	\$55,929,225

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0004693A		Bridge Name:		Route:	Milepost:	Region: Southwest
Bridge Number: 5/234		BLAKESLEE JCT RR OC		5	83.28	County: Lewis
Location:	Detour Length:	Longitude:	Latitude:	Structure Length:		Out to Out Width:
1.8 N JCT SR 507	1 miles	122° 58' 24"	46° 44' 6"	363 ft.		78.3 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 4	
BLAKESLEE JCT RR		25.41 %g	33.6% %g	CBox CTB	Appr. Spans: 1	
Year Built: 1954	ADT: 54298	11-13 Rank:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 1975	Truck Pct: 20 %	139	99	Single Column Pier		



Bridge Notes:

N.B. and S.B. bridges, each has a 9'-0"x4'-0" rectangular column at piers 3, 4 and 5. #3 hoops and ties @ 12", #11 bars with 2'-4" splices. No top mat. 4 roller bearings at expansion joint at pier 2 of both N.B. and S.B. bridges.

Retrofit Program Notes:

Completed Retrofit Notes:

Remaining Retrofit Notes:

Includes both East and West bridges. Retrofit single columns at piers 3, 4, and 5 and two columns at pier 2. (total 10, P2 2-3'x3', P3, P4 & P5 1-9'x4' ea. bridge) Install catcher blocks for rocker bearings at pier 2 and restrainers.

Overall Retrofit Status: R
Single Column Pier Status: N
Multi Column Pier Status: R
 C=Complete P=Partially Complet
 R=Required N=Not Required
 D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost:
Estimated Total Retrofit Project Cost:

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0009251A		Bridge Name:		Route:	Milepost:	Region: Southwest
Bridge Number: 5/233		HARRISON AVE OC		5	82.74	County: Lewis
Location:	Detour Length:	Longitude:	Latitude:	Structure Length:		Out to Out Width:
1.7 N JCT SR 507	0 miles	122° 58' 36" W	46° 43' 42" N	208 ft.		86.5 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
HARRISON AVE		25.3 %g	33.5% %g	PCG	Appr. Spans: 0	
Year Built: 1972	ADT: 54298	11-13 Rank:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 0	Truck Pct: 20 %	140	28	Pier with more than two columns	Spread footing	



Bridge Notes:

Piers 2 and 3, each has four 3'-0" diameter columns. #4 hoops @ 12". #9 bars with 3'-6" splices. Footing without top mat.

Retrofit Program Notes:

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.)

Overall Retrofit Status: R
Single Column Pier Status: N
Multi Column Pier Status: R
 C=Complete P=Partially Complet
 R=Required N=Not Required
 D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost:
Estimated Total Retrofit Project Cost:

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0011757B		Bridge Name:		Route:	Milepost:	Region: Southwest
Bridge Number: 5/232W		SKOOKUMCHUCK R		5	82.28	County: Lewis
Location:	Detour Length:	Longitude:	Latitude:	Structure Length:		Out to Out Width:
0.7 N JCT SR 507	1 miles	122° 58' 30"	46° 43' 18"	252 ft.		34 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 1	
SKOOKUMCHUCK R		25.2 %g	33.4% %g	STrus CTB	Appr. Spans: 2	
Year Built: 1951	ADT: 27895	11-13 Rank:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 0	Truck Pct: 20 %	141	0	Pier Wall		



Bridge Notes:

Steel trusses supported on pier walls at piers 2 and 3. Two expansion rocker bearings at pier 3 and two fixed bearings at pier 2. Approach span has four rocker bearings, each at piers 2 and 3.

Retrofit Program Notes:

Completed Retrofit Notes:

Remaining Retrofit Notes:

Install catcher blocks for steel trusse rocker bearings at piers 2 and 3.

Overall Retrofit Status: R
Single Column Pier Status: N
Multi Column Pier Status: R
 C=Complete P=Partially Complet
 R=Required N=Not Required
 D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost:
Estimated Total Retrofit Project Cost:

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0011757A		Bridge Name: SKOOKUMCHUCK R		Route: 5	Milepost: 82.28	Region: Southwest
Bridge Number: 5/232E						County: Lewis
Location: 0.7 N JCT SR 507	Detour Length: 1 miles	Longitude: 122° 58' 30"	Latitude: 46° 43' 18"	Structure Length: 252 ft.		Out to Out Width: 34 ft.
Feature Intersected: SKOOKUMCHUCK R		PGA (500 yr): 25.2 %g	PGA (1000 yr): 33.4% %g	Span Type: STrus CTB	Main Spans: 1 Appr. Spans: 2	
Year Built: 1951	ADT: 27895	11-13 Rank: 142	Skew Angle: 0	Pier Type: Pier Wall	Footing Type:	
Year Rebuilt: 0	Truck Pct: 20 %					



Bridge Notes:

Steel trusses supported on pier walls at piers 2 and 3. Two expansion rocker bearings at pier 3 and two fixed bearings at pier 2. Approach span has four rocker bearings, each at piers 2 and 3.

Retrofit Program Notes:

Completed Retrofit Notes:

Remaining Retrofit Notes:

Install catcher blocks for steel trusse rocker bearings at piers 2 and 3.

Overall Retrofit Status: R
Single Column Pier Status: N
Multi Column Pier Status: R
 C=Complete P=Partially Complet
 R=Required N=Not Required
 D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost:
Estimated Total Retrofit Project Cost:

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0003922A		Bridge Name:		Route:	Milepost:	Region: Southwest
Bridge Number: 5/230		SR 507 MELLEEN ST OC		5	81.67	County: Lewis
Location:	Detour Length:	Longitude:	Latitude:	Structure Length:		Out to Out Width:
3.7 N JCT SR 6	0 miles	122° 58' 30"	46° 42' 42"	94 ft.		83.5 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
SR 507 MELLEEN ST		25.05 %g	33.2% %g	CTB	Appr. Spans: 0	
Year Built: 1951	ADT: 55791	11-13 Rank:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 1972	Truck Pct: 25 %	143	0	Pier with more than two columns	Spread footing	



Bridge Notes:

Piers 2, and 3, each has 16-15"x15" square columns @ 5'-0", #3 hoops @ 12", #7 bars with 4'-2" splices. Footings have #6 @11" longitudinal and #6 @ 3'-0" transverse top mat. Each pier has a 15"x24" rectangular column at centerline of roadway with #4 @12" hoop and ties.

Retrofit Program Notes:

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (17 ea. 34 total, 15-15"x15" & 1-24"x15" ea.)

Overall Retrofit Status: R
Single Column Pier Status: N
Multi Column Pier Status: R
 C=Complete P=Partially Complet
 R=Required N=Not Required
 D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost:
Estimated Total Retrofit Project Cost:

WSDOT Scour Projects - 2011-13 Bien

(Sorted by Bridge Number)



Bridge Number	Bridge Name	Length	Mile post	Region	PIN #	Year Planned	11-13 #	Project Total\$'s
142/013.25	SPRING CR	22	29.92	Southwest	414205R	2011	1	\$956,000
Total Number of Bridges = 1						Total Bien\$'s =		\$956,000

WSDOT Bridge over Water

Scour Form

Bridge ID: 00000BE	Bridge Number: 142/13	Bridge Name: SPRING CR	State Route: 142 Mile Post: 29.92	Southwest Cnty: Klickitat
Year Built: 1950 Rebuilt:	Span Type: SB	ADT: 1125 ADT Truck Pct: 15 %	Structure Length: 22 ft. Width: 23.5 ft.	main span 1 aprch: 0 Detour Length: 6 miles
Substructure Stability: Code: 1 Spread footing, simple spans.	Streambed Material: 2 Sediment	Scour History: Code: N No history of scour.	Last Scour repair Project Yr: C#:	
Scour Code: 3	Scour Rating Description: Bridge is scour critical; bridge foundations determined unstable for calculated scour depths: 1) Within limits of footings or piles (Figure WB 76-80B) 2) Below footing base or pile tips (Figure WB 76-80C).	Substr Code: 4	sufficiency_rating: 48.77	



Deficiencies: Stream flows against both abutments. Heavy silt deposition 2' thick at west abutment. Abutments are Stone & mortar wall. Unknown foundation depth. Mortar has been eroded by the stream action. Bridge has contraction scour problem and needs as much hydraulic opening as possible.	First Noted: 6/6/2006
	BPO Repair List Priority: 1
Recommended Action: BPO - Place well graded light loose riprap, two to three layers deep (1' thick min.) along both stone & mortar abutment walls, tapering out at a 2:1 slope, blending into the existing groundline and banks. Repair modified 6/6/06 to priority 1 due to undermining of the east abutment per JHL/DCC. Bridge Management Unit - Scour repair is scheduled to be done by SW Region Maintenance in 2011.	Funding - P2 or M: P2
	BPO Repair Num: 10000
	11-13 Priority Rank: 1
	WIN: PIN: 414205R
	Total Cost Estimate: \$280,000