

Special Bridge Repairs - 2009-11 Biennium - Statewide

(Sorted by Priority#)

Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$':	Total\$':
005/345E	NISQUALLY RIVER	Steel Stringer	Modify steel stringer connections to mitigate the cracking problem in the webs along the top flange.	OL	1		\$1,798,526
005/040W	LEWIS R	Steel Finger Exp Joint	Repair Finger Joint	SW	1	\$250,000	\$641,000
005/342E	MCALLISTER CR	Concrete Submerged Pile/Column	Repair the submerged concrete columns in pier 2.	OL	1	\$50,000	\$75,000
005/342N-E	MCALLISTER CR	Concrete Submerged Pile/Column	Repair deteriorated submerged columns in pier 3.	OL	1	\$200,000	\$350,000
002/606	DEEP CR	Concrete Sidewalk	Remove and replace the concrete sidewalk.	EA	1		\$507,555
101/508E	MUD BAY	Concrete Submerged Pile/Column	Repair salt water deteriorated columns in piers 4, 5 & 6.	OL	1	\$150,000	\$513,753
101/508W	MUD BAY	Concrete Submerged Pile/Column	Repair salt water deteriorated columns in piers 4, 5 & 6.	OL	1	\$150,000	\$513,753
002/606	DEEP CR	Concrete Bridge Rail	Remove and replace the concrete bridge rails.	EA	1		
090/025N	HOMER M. HADLEY	Assembly Joint Seal	Replace Modular Expansion Joints with 48" movement at Pontoon A and Pontoon R in both Mainline and Center Roadway.	NW	2	\$1,500,000	\$3,000,000
520/008	ALBERT D. ROSELLINI BR	Floating Bridge Anchor Cable	Replace 15 Floating Bridge Anchor Cables.	NW	3	\$4,050,000	\$4,350,000
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 10 anchor cables.	NW	4	\$2,750,000	\$3,050,000
005/321	CAPITOL LAKE	Strip Seal Expansion Joint	Replace strip seal expansion joint.	OL	5	\$300,000	\$528,000
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
395/040	PIONEER MEM. BR	Modular Expansion Joint	Replace modular expansion joints @ 3 locations installed in 1986.	SC	7	\$470,000	\$940,000
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
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 13 anchor cables.	NW	9	\$3,510,000	\$3,810,000
090/025S	LACEY V. MURROW BR	Floating Bridge - Anchor Cable	Replace 9 anchor cables.	NW	10	\$2,430,000	\$2,730,000
520/008	ALBERT D. ROSELLINI BR	Floating Bridge Anchor Cable	Replace 5 Floating Bridge Anchor Cables.	NW	11	\$1,350,000	\$1,600,000
005/537S	EB LANES I-5 OC	Concrete Box Girder	Repair delaminated concrete areas on the bottom side of the bottom slab.	NW	12	\$100,000	\$500,000
005/537S	EB LANES I-5 OC	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	13	\$246,000	\$615,000
005/535E	NB VIADUCT STA 2032	Exp Jnt - Steel Sliding Plate	Replace the Steel Sliding Plate expansion joints.	NW	14	\$304,000	\$760,000
005/536N-W	N-W RAMP I-5 OC	Exp Jnt - Steel Sliding Plate	Replace the Steel Sliding Plate expansion joints.	NW	15	\$150,000	\$375,000
005/537E-S	E-S RAMP BR	Exp Jnt - Steel Sliding Plate	Replace steel plate expansion joints	NW	16	\$120,000	\$300,000
005/537N	S-E RAMP WB LANES	Exp Jnt - Steel Sliding Plate	Replace the existing steel sliding plate expansion joints.	NW	17	\$280,000	\$700,000

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005/537N-W	N-6TH RAMP BRIDGE	Exp Jnt - Steel Sliding Plate	Replace the existing steel sliding plate expansion joints.	NW	18	\$63,000	\$157,500
005/538E	NB VIADUCT STA 2075	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints at 4 locations.	NW	19	\$140,000	\$350,000
005/543E	KING-JACKSON ST OC	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints at 1 locations.	NW	20	\$58,000	\$145,000
005/543NCD	NBCD KING JACKSON ST O	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	21	\$113,000	\$282,500
005/543SCD	SBCD KING JACKSON ST OC	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	22	\$150,000	\$375,000
005/543W	KING-JACKSON ST OC	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	23	\$56,000	\$140,000
005/545NCD	NBCD VIADUCT STA 2195	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	24	\$96,000	\$240,000
005/545SCD	SBCD VIADUCT STA 2195	Comp Seal w/ Steel Header	Replace expansion joints at 4 locations.	NW	25	\$180,000	\$450,000
005/562E	NB LANES VIADUCT	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	26	\$90,000	\$225,000
005/647E	UNION SLOUGH	Exp Jnt - Rubber Bolt down	Replace the Rubber Bolt Down expansion joints.	NW	27	\$120,000	\$360,000
005/647W	UNION SLOUGH	Exp Jnt - Rubber Bolt down	Replace the Rubber Bolt Down expansion joints.	NW	28	\$120,000	\$360,000
005/648W	STEAMBOAT SLOUGH	Strip Seal Expansion Joint	Replace strip seal expansion joint at two locations.	NW	29	\$144,000	\$240,000
005/650E	EBEY SL BN RY SR 529 OC	Modular Expansion Joint	Replace Modular Expansion Joints and strip seal joints.	NW	30	\$900,000	\$1,800,000
005/650W	EBEY SL BN RY SR 529 OC	Exp Jnt - Rubber Bolt down	Replace the Rubber Bolt Down expansion joints.	NW	31	\$470,000	\$1,386,000
005/342W-S	MCALLISTER CR	Concrete Submerged Pile/Column	Repair salt water deteriorated columns @ piers 2 & 4.	OL	32	\$200,000	\$350,000
018/009	NP RY OC	Rubber Bolt Down exp joints	Replace Expansion Joints at 6 locations.	NW	33	\$309,750	\$619,500
018/009	NP RY OC	Steel Hanger Assembly	Clean and Paint Steel Hanger and Pin assembly.	NW	34	\$250,000	\$450,000
090/010W-S	I-5 OC, W-S RAMP	Steel Sliding Plate	Replace Expansion Joints	NW	35	\$164,000	\$410,000
090/540N	HANGMAN CR	Concrete Box Girder	Remove loose concrete, clean rusty steel and apply a patching material and sealer.	EA	36	\$150,000	\$300,000
090/540S	HANGMAN CR	Concrete Box Girder	Remove loose concrete, clean rusty steel and apply a patching material and sealer.	EA	37	\$150,000	\$300,000
005/040W	LEWIS R	Steel Thru Truss	Repair damage to sways caused by an overhieght truck impact.	SW	38	\$250,000	\$500,000
405/070E	SR 522 OC SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.	NW	39	\$100,000	\$300,000
405/070N-E	N-E RAMP SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 3 separate locations on the bridge.	NW	40	\$34,500	\$103,500

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405/070N-W	N-W RAMP SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.	NW	41	\$60,000	\$180,000
405/070S-E	S-E RAMP BR	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 2 separate locations on the bridge.	NW	42	\$25,000	\$75,000
405/070W	SR 522 OC SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.	NW	43	\$100,000	\$288,000
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
005/452W	PORTLAND AVE OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	46	\$131,000	\$393,000
005/453	SR 167 E-N RAMP OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	47	\$75,000	\$442,500
005/455	EAST T ST SEWER OC	Exp Joint - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	48	\$130,000	\$390,000
153/010	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.	NC	49	\$200,000	\$300,000
153/016	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.	NC	50	\$190,000	\$275,000
153/017	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.	NC	51	\$125,000	\$185,000
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 9 anchor cables	NW	52	\$2,430,000	\$2,700,000
104/005.1	HOOD CANAL-WEST HALF	Floating Bridge - Anchor Cable	Replace 18 anchor cables.	OL	53	\$4,500,000	\$5,400,000
101/269	FULTON CR	Concrete Submerged Column	Repair and encase section of concrete columns exposed to saltwater.	OL	54	\$320,000	\$600,000
101/432E	KENNEDY CR	Concrete Submerged Column	Clean and encase concrete columns	OL	55	\$720,000	\$1,080,000
101/432W	KENNEDY CR	Concrete Submerged Column	Clean and encase concrete columns	OL	56	\$720,000	\$1,080,000
167/032E	VALLEY AVE & UPRR O'XING	Steel Sliding Plate Exp Joint	Replace Expansion joints @ piers 4 and 6.	OL	57	\$100,000	\$250,000
290/004.7E-E	3RD AVE & E-E RAMP OC	Concrete Box	Remove delaminated concrete, clean rusty steel and apply new patching material.	EA	58		
395/040	PIONEER MEM. BR	Poured Joint Filler	Replace poured joint filler in joints through the arch span.	SC	59	\$156,675	\$313,350
005/570	LAKE WASH SHIP CANAL	Poured Joints	Replace poured joint sealant in deck joints of the lower deck express lanes.	NW	60	\$360,000	\$500,000
020/204	DECEPTION PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	61		

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090/040N	EAST CHANNEL-LK WASH	Modular Expansion Joint	Replace Glands in Modular expansion joints in westbound lanes.	NW	62	\$75,000	\$150,000
153/003	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail.	NC	63	\$116,400	\$232,800
167/040E	8TH ST E O'XING	Concrete Bridge Rail	Replace 56 feet of bridge rail.	OL	64	\$25,000	\$50,000
195/024	S FK PALOUSE R CT HOUSE	Concrete Girder	Patch all spalls on the girders, edge beams, and the deck soffit that have exposed rebar. Remove all the loose concrete, clean all the rust off the exposed rebars and concrete grout patch the spall areas.	EA	65		
410/031	WHITE R (STUCK R)	Exp Jnt - Rubber Bolt down	Replace rubber bolt down expansion joints.	OL	66	\$108,000	\$216,000
500/006	I-205 OC	Exp Joint - Rubber Bolt Down	Replace expansion joints.	SW	67	\$111,000	\$222,000
012/012N	WISHKAH R CS1413	Concrete Girder	Rehabilitate deteriorated concrete elements.	OL	68		\$100,000
018/017S	GREEN R (NEELEY BRIDGE)	Steel Stringer	Address cracking in 15 steel stringers.	NW	69		
090/180	COLUMBIA R VANTAGE	Poured Joint Filler	Replace poured joint filler in all transverse joints.	SC	70	\$168,000	\$336,000
020/207	CANOE PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	71	\$200,000	\$400,000
090/545E-E	FOURTH-E RAMP	Concrete Abutment	Remove delaminated concrete, clean rusty rebar and apply new patching material.	EA	72	\$200,000	\$300,000
107/004	CHEHALIS R	Timber Deck	Remove and replace the timber deck and bridge rails on the timber approach span.	OL	73	\$1,600,000	\$3,200,000
409/010	JULIA BUTLER HANSEN BR	Timber Deck	Replace timber deck on steel truss span.	SW	74	\$1,500,000	\$3,000,000
529/015E	UNION SL	Concrete Submerged Pile/Column	Repair deteriorated columns.	NW	75	\$3,000,000	\$3,300,000
529/015W	UNION SL	Concrete Submerged Pile/Column	Repair deteriorated columns (suggested by NW Region Maintenance)	NW	76	\$3,000,000	\$3,300,000
530/124	N FK STILLAGUAMISH R	Steel Stringer	Repair cracking in stringers.	NW	77	\$200,000	\$400,000
012/512S	SNAKE RIVER AT BURBANK	Steel Cracking	Bridge Repair #12786: Approximately 17 active cracks in the floor system. The 2005 inspection reports 5 cracks have increased 1/4" since 2003 inspection.	SC	78	\$400,000	\$600,000
090/540S	HANGMAN CR	Concrete Abutment	A phase 2 soils investigation and engineering study is recommended by the HQ Materials Lab to determine if the bridge piers are rotating causing the expansion joints to close.	EA	79	\$100,000	\$100,000
099/507E	SR 599 OC	Exp Jnt - Rubber Bolt Down	Replace 160 LF of rubber bolt down expansion joint.	NW	80	\$74,000	\$222,000
099/507S-S	PACIFIC HWY OC	Exp Jnt - Rubber Bolt Down	Replace 190 LF of rubber bolt down expansion joint.	NW	81	\$95,000	\$285,000

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099/507W	S 116TH PL OC	Exp Jnt - Rubber Bolt Down	Replace 108 LF of rubber bolt down expansion joint.	NW	82	\$54,000	\$162,000
099/508	PACIFIC HWY OC	Exp Jnt - Rubber Bolt Down	Replace 227 LF of rubber bolt down expansion joint.	NW	83	\$113,500	\$340,500
101/115N-W	N-W RAMP	Bolt Down Panel - Molded Rubbe	Replace bolt down panels expansion joint system.	OL	84	\$40,000	\$120,000
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
005/553	I-5 OC, DENNY WAY	Rubber bolt down exp jnt	Replace the expansion joint on the east end of the bridge	NW	86	\$42,000	\$84,000
006/118	CHEHALIS R ADNA	Steel Plate Exp Jnt	Rehabilitate the expansion joints.	SW	87	\$40,000	\$240,000
009/360	JOHNSON CR	Concrete Abutment	Add a sheet pile wall around the abutments to contain the approach roadway embankment.	NW	88	\$100,000	\$350,000
012/118	I-5 OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	89	\$120,500	\$361,500
012/306	INDIAN CR	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	SW	90	\$45,000	\$100,000
002/601	STEVENS CR UPPER X-ING	Concrete Bridge Rail	Replace deteriorated concrete balluster rail	EA	91	\$25,000	\$50,000
012/713	NP RY OC	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	SC	92	\$110,000	\$220,000
012/915	SNAKE R CLARKSTON	Concrete Bridge Rail	Replace the deteriorated concrete bridge rail on the approach spans and repair the concrete end posts.	SC	93	\$300,000	\$600,000
021/321	W FK SAN POIL	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	EA	94	\$50,000	\$100,000
021/323	SAN POIL R	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	EA	95	\$50,000	\$100,000
026/002SP	N FK PALOUSE-WEST WYE	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	EA	96	\$50,000	\$100,000
090/332	I-90 OC, TOKIO RD	Steel Sliding Exp Joint	Replace Expansion Joints	EA	97	\$80,000	\$160,000
195/027	N FK PALOUSE R	Concrete Bridge Railing	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail.	EA	98	\$96,000	\$200,000
105 Repairs				Sum of Bridge \$'s =		\$45,703,925	\$72,934,437

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002/601	STEVENS CR UPPER X-ING	Concrete Bridge Rail	Replace deteriorated concrete balluster rail	EA	91	\$25,000	\$50,000
002/606	DEEP CR	Concrete Sidewalk	Remove and replace the concrete sidewalk.	EA	1		\$507,555
002/606	DEEP CR	Concrete Bridge Rail	Remove and replace the concrete bridge rails.	EA	1		
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 Finger Exp Joint	Repair Finger Joint	SW	1	\$250,000	\$641,000
005/040W	LEWIS R	Steel Thru Truss	Repair damage to sways caused by an overhieght 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
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
005/321	CAPITOL LAKE	Strip Seal Expansion Joint	Replace strip seal expansion joint.	OL	5	\$300,000	\$528,000
005/342E	MCALLISTER CR	Concrete Submerged Pile/Column	Repair the submerged concrete columns in pier 2.	OL	1	\$50,000	\$75,000
005/342N-E	MCALLISTER CR	Concrete Submerged Pile/Column	Repair deteriorated submerged columns in pier 3.	OL	1	\$200,000	\$350,000
005/342W-S	MCALLISTER CR	Concrete Submerged Pile/Column	Repair salt water deteriorated columns @ piers 2 & 4.	OL	32	\$200,000	\$350,000
005/345E	NISQUALLY RIVER	Steel Stringer	Modify steel stringer connections to mitigate the cracking problem in the webs along the top flange.	OL	1		\$1,798,526
005/452W	PORTLAND AVE OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	46	\$131,000	\$393,000
005/453	SR 167 E-N RAMP OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	47	\$75,000	\$442,500
005/455	EAST T ST SEWER OC	Exp Joint - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	48	\$130,000	\$390,000
005/535E	NB VIADUCT STA 2032	Exp Jnt - Steel Sliding Plate	Replace the Steel Sliding Plate expansion joints.	NW	14	\$304,000	\$760,000
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005/537E-S	E-S RAMP BR	Exp Jnt - Steel Sliding Plate	Replace steel plate expansion joints	NW	16	\$120,000	\$300,000
005/537N	S-E RAMP WB LANES	Exp Jnt - Steel Sliding Plate	Replace the existing steel sliding plate expansion joints.	NW	17	\$280,000	\$700,000
005/537N-W	N-6TH RAMP BRIDGE	Exp Jnt - Steel Sliding Plate	Replace the existing steel sliding plate expansion joints.	NW	18	\$63,000	\$157,500
005/537S	EB LANES I-5 OC	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	13	\$246,000	\$615,000
005/537S	EB LANES I-5 OC	Concrete Box Girder	Repair delaminated concrete areas on the bottom side of the bottom slab.	NW	12	\$100,000	\$500,000
005/538E	NB VIADUCT STA 2075	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints at 4 locations.	NW	19	\$140,000	\$350,000

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005/562E	NB LANES VIADUCT	Exp Jnt - Steel Sliding Plate	Replace the steel sliding plate expansion joints.	NW	26	\$90,000	\$225,000
005/570	LAKE WASH SHIP CANAL	Poured Joints	Replace poured joint sealant in deck joints of the lower deck express lanes.	NW	60	\$360,000	\$500,000
005/647E	UNION SLOUGH	Exp Jnt - Rubber Bolt down	Replace the Rubber Bolt Down expansion joints.	NW	27	\$120,000	\$360,000
005/647W	UNION SLOUGH	Exp Jnt - Rubber Bolt down	Replace the Rubber Bolt Down expansion joints.	NW	28	\$120,000	\$360,000
005/648W	STEAMBOAT SLOUGH	Strip Seal Expansion Joint	Replace strip seal expansion joint at two locations.	NW	29	\$144,000	\$240,000
005/650E	EBEY SL BN RY SR 529 OC	Modular Expansion Joint	Replace Modular Expansion Joints and strip seal joints.	NW	30	\$900,000	\$1,800,000
005/650W	EBEY SL BN RY SR 529 OC	Exp Jnt - Rubber Bolt down	Replace the Rubber Bolt Down expansion joints.	NW	31	\$470,000	\$1,386,000
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
009/360	JOHNSON CR	Concrete Abutment	Add a sheet pile wall around the abutments to contain the approach roadway embankment.	NW	88	\$100,000	\$350,000
012/012N	WISHKAH R CS1413	Concrete Girder	Rehabilitate deteriorated concrete elements.	OL	68		\$100,000
012/118	I-5 OC	Exp Jnt - Rubber Bolt Down	Replace the rubber bolt down expansion joints.	OL	89	\$120,500	\$361,500
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012/713	NP RY OC	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	SC	92	\$110,000	\$220,000
012/915	SNAKE R CLARKSTON	Concrete Bridge Rail	Replace the deteriorated concrete bridge rail on the approach spans and repair the concrete end posts.	SC	93	\$300,000	\$600,000

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018/009	NP RY OC	Steel Hanger Assembly	Clean and Paint Steel Hanger and Pin assembly.	NW	34	\$250,000	\$450,000
018/017S	GREEN R (NEELEY BRIDGE)	Steel Stringer	Address cracking in 15 steel stringers.	NW	69		
020/204	DECEPTION PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	61		
020/207	CANOE PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	71	\$200,000	\$400,000
021/321	W FK SAN POIL	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	EA	94	\$50,000	\$100,000
021/323	SAN POIL R	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	EA	95	\$50,000	\$100,000
026/002SP	N FK PALOUSE-WEST WYE	Concrete Bridge Rail	Replace the deteriorated concrete bridge rails.	EA	96	\$50,000	\$100,000
090/010W-S	I-5 OC, W-S RAMP	Steel Sliding Plate	Replace Expansion Joints	NW	35	\$164,000	\$410,000
090/025N	HOMER M. HADLEY	Assembly Joint Seal	Replace Modular Expansion Joints with 48" movement at Pontoon A and Pontoon R in both Mainline and Center Roadway.	NW	2	\$1,500,000	\$3,000,000
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 10 anchor cables.	NW	4	\$2,750,000	\$3,050,000
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 13 anchor cables.	NW	9	\$3,510,000	\$3,810,000
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 9 anchor cables	NW	52	\$2,430,000	\$2,700,000
090/025S	LACEY V. MURROW BR	Floating Bridge - Anchor Cable	Replace 9 anchor cables.	NW	10	\$2,430,000	\$2,730,000
090/040N	EAST CHANNEL-LK WASH	Modular Expansion Joint	Replace Glands in Modular expansion joints in westbound lanes.	NW	62	\$75,000	\$150,000
090/180	COLUMBIA R VANTAGE	Poured Joint Filler	Replace poured joint filler in all transverse joints.	SC	70	\$168,000	\$336,000
090/332	I-90 OC, TOKIO RD	Steel Sliding Exp Joint	Replace Expansion Joints	EA	97	\$80,000	\$160,000
090/540N	HANGMAN CR	Concrete Box Girder	Remove loose concrete, clean rusty steel and apply a patching material and sealer.	EA	36	\$150,000	\$300,000
090/540S	HANGMAN CR	Concrete Abutment	A phase 2 soils investigation and engineering study is recommended by the HQ Materials Lab to determine if the bridge piers are rotating causing the expansion joints to close.	EA	79	\$100,000	\$100,000
090/540S	HANGMAN CR	Concrete Box Girder	Remove loose concrete, clean rusty steel and apply a patching material and sealer.	EA	37	\$150,000	\$300,000
090/545E-E	FOURTH-E RAMP	Concrete Abutment	Remove delaminated concrete, clean rusty rebar and apply new patching material.	EA	72	\$200,000	\$300,000
099/507E	SR 599 OC	Exp Jnt - Rubber Bolt Down	Replace 160 LF of rubber bolt down expansion joint.	NW	80	\$74,000	\$222,000
099/507S-S	PACIFIC HWY OC	Exp Jnt - Rubber Bolt Down	Replace 190 LF of rubber bolt down expansion joint.	NW	81	\$95,000	\$285,000
099/507W	S 116TH PL OC	Exp Jnt - Rubber Bolt Down	Replace 108 LF of rubber bolt down expansion joint.	NW	82	\$54,000	\$162,000

Special Bridge Repairs - 2009-11 Biennium - Statewide

(Sorted by Bridge#)

Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$'s:	Total\$'s:
099/508	PACIFIC HWY OC	Exp Jnt - Rubber Bolt Down	Replace 227 LF of rubber bolt down expansion joint.	NW	83	\$113,500	\$340,500
101/115N-W	N-W RAMP	Bolt Down Panel - Molded Rubbe	Replace bolt down panels expansion joint system.	OL	84	\$40,000	\$120,000
101/269	FULTON CR	Concrete Submerged Column	Repair and encase section of concrete columns exposed to saltwater.	OL	54	\$320,000	\$600,000
101/432E	KENNEDY CR	Concrete Submerged Column	Clean and encase concrete columns	OL	55	\$720,000	\$1,080,000
101/432W	KENNEDY CR	Concrete Submerged Column	Clean and encase concrete columns	OL	56	\$720,000	\$1,080,000
101/508E	MUD BAY	Concrete Submerged Pile/Column	Repair salt water deteriorated columns in piers 4, 5 & 6.	OL	1	\$150,000	\$513,753
101/508W	MUD BAY	Concrete Submerged Pile/Column	Repair salt water deteriorated columns in piers 4, 5 & 6.	OL	1	\$150,000	\$513,753
104/005.1	HOOD CANAL-WEST HALF	Floating Bridge - Anchor Cable	Replace 18 anchor cables.	OL	53	\$4,500,000	\$5,400,000
107/004	CHEHALIS R	Timber Deck	Remove and replace the timber deck and bridge rails on the timber approach span.	OL	73	\$1,600,000	\$3,200,000
153/003	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail.	NC	63	\$116,400	\$232,800
153/010	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.	NC	49	\$200,000	\$300,000
153/016	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.	NC	50	\$190,000	\$275,000
153/017	METHOW R	Concrete Bridge Rail	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.	NC	51	\$125,000	\$185,000
167/032E	VALLEY AVE & UPRR O'XING	Steel Sliding Plate Exp Joint	Replace Expansion joints @ piers 4 and 6.	OL	57	\$100,000	\$250,000
167/040E	8TH ST E O'XING	Concrete Bridge Rail	Replace 56 feet of bridge rail.	OL	64	\$25,000	\$50,000
195/024	S FK PALOUSE R CT HOUSE	Concrete Girder	Patch all spalls on the girders, edge beams, and the deck soffit that have exposed rebar. Remove all the loose concrete, clean all the rust off the exposed rebars and concrete grout patch the spall areas.	EA	65		
195/027	N FK PALOUSE R	Concrete Bridge Railing	Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail.	EA	98	\$96,000	\$200,000
290/004.7E-E	3RD AVE & E-E RAMP OC	Concrete Box	Remove delaminated concrete, clean rusty steel and apply new patching material.	EA	58		
395/040	PIONEER MEM. BR	Modular Expansion Joint	Replace modular expansion joints @ 3 locations installed in 1986.	SC	7	\$470,000	\$940,000

Special Bridge Repairs - 2009-11 Biennium - Statewide

(Sorted by Bridge#)

Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$'s:	Total\$'s:
395/040	PIONEER MEM. BR	Poured Joint Filler	Replace poured joint filler in joints through the arch span.	SC	59	\$156,675	\$313,350
405/070E	SR 522 OC SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.	NW	39	\$100,000	\$300,000
405/070N-E	N-E RAMP SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 3 separate locations on the bridge.	NW	40	\$34,500	\$103,500
405/070N-W	N-W RAMP SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.	NW	41	\$60,000	\$180,000
405/070S-E	S-E RAMP BR	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 2 separate locations on the bridge.	NW	42	\$25,000	\$75,000
405/070W	SR 522 OC SAMMAMISH R	Exp Jnt - Rubber Bolt down	Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.	NW	43	\$100,000	\$288,000
409/010	JULIA BUTLER HANSEN BR	Timber Deck	Replace timber deck on steel truss span.	SW	74	\$1,500,000	\$3,000,000
410/031	WHITE R (STUCK R)	Exp Jnt - Rubber Bolt down	Replace rubber bolt down expansion joints.	OL	66	\$108,000	\$216,000
500/006	I-205 OC	Exp Joint - Rubber Bolt Down	Replace expansion joints.	SW	67	\$111,000	\$222,000
520/008	ALBERT D. ROSELLINI BR	Floating Bridge Anchor Cable	Replace 15 Floating Bridge Anchor Cables.	NW	3	\$4,050,000	\$4,350,000
520/008	ALBERT D. ROSELLINI BR	Floating Bridge Anchor Cable	Replace 5 Floating Bridge Anchor Cables.	NW	11	\$1,350,000	\$1,600,000
529/015E	UNION SL	Concrete Submerged Pile/Column	Repair deteriorated columns.	NW	75	\$3,000,000	\$3,300,000
529/015W	UNION SL	Concrete Submerged Pile/Column	Repair deteriorated columns (suggested by NW Region Maintenance)	NW	76	\$3,000,000	\$3,300,000
530/124	N FK STILLAGUAMISH R	Steel Stringer	Repair cracking in stringers.	NW	77	\$200,000	\$400,000
105 Repairs				Sum of Bridge \$'s =		\$45,703,925	\$72,934,437

Bridge Number: 2 / 606	Structure ID 0002701A	Bridge Name: DEEP CR	Milepost: 272.41	Region: Eastern
Year Built / YR Widened: 1941	Bridge Type: CTB	Bridge Length: 180 ft	Bridge Width (curb-curb): 26.0 ft	Sufficiency Rating: 62.67 FO
Average Daily Traffic: 5,714	Truck% 10%	Detour (miles) 5	Num of Lanes: 2	
Date Inspected: 9/19/2006	Superstr Code: 6	Substr Code: 5	Structr Adequacy: 5	Safe Load: 5
BMS Element Num: 331		BMS Element Descr: Concrete Bridge Rail		
BMS Element Quantity: 360 Feet				
Project Number: 6002271	2009-11 Priority#: 1	2007-09 Priority#: 22	Bridge \$'s: Repair Total\$'s:	
Repair Year: 2008	CPMS Ad Date: 3/24/2008			



Repair Description:

Remove and replace the concrete bridge rails.

COMMENTS

The concrete bridge rails are deteriorated with exposed reinforcing steel. The bridge rails need to be replaced with a new Thrie Beam and steel H-Posts.

The details for the concrete bridge rail and sidewalk replacement should be similar to those used on bridge 153/20 (contract 6315) in 2002 and on other SR 153 bridges (contract 7229) in 2007.

This work is scheduled to be done by contract in 2008.

Bridge Number: 2 / 606	Structure ID 0002701A	Bridge Name: DEEP CR	Milepost: 272.41	Region: Eastern
Year Built / YR Widened: 1941	Bridge Type: CTB	Bridge Length: 180 ft	Bridge Width (curb-curb): 26.0 ft	Sufficiency Rating: 62.67 FO
Average Daily Traffic: 5,714	Truck% 10%	Detour (miles) 5	Num of Lanes: 2	
Date Inspected: 9/19/2006	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 5	Scour: 5			
BMS Element Num: 266	BMS Element Descr: Concrete Sidewalk			
BMS Element Quantity: 180 Feet				
Project Number: 6002271	2009-11 Priority#: 1	2007-09 Priority#: 23		
Repair Year: 2008	Bridge \$'s: Repair Total\$'s: \$507,555			
CPMS Ad Date: 3/24/2008				



Repair Description:

Remove and replace the concrete sidewalk.

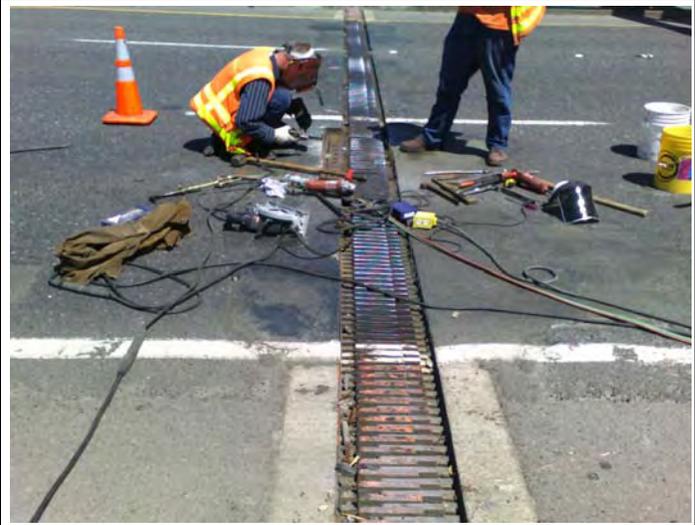
COMMENTS

The concrete in the sidewalk is deteriorated and reinforcing steel is exposed at the curbline. The sidewalk needs to be replaced along with the concrete balluster bridge rails.

The details for the concrete bridge rail and sidewalk replacement should be similar to those used on bridge 153/20 (contract 6315) in 2002 and on other SR 153 bridges (contract 7229) in 2007.

This work is scheduled to be done by contract in 2008.

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: Repair Year: 2008	2009-11 Priority#: 2007-09 Priority#:	1	Bridge \$'s: Repair Total\$'s:	
CPMS Ad Date:			\$250,000 \$641,000	



Repair Description:

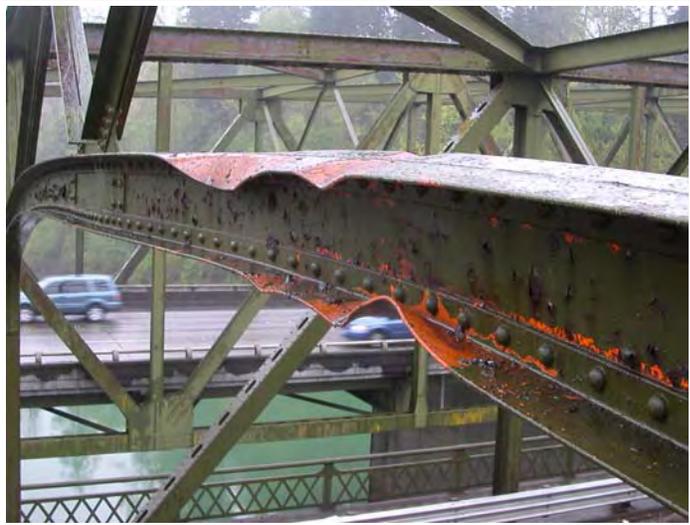
Repair Finger Joint

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 / 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:	2009-11 Priority#:	38		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$250,000		
	Repair Total\$'s:	\$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		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	Scour: N			
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		
				
<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 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	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:	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: 5 / 321	Structure ID 0005090A	Bridge Name: CAPITOL LAKE	Milepost: 104.52	Region: Olympic
Year Built / YR Widened: 1956 / 1986	Bridge Type: CBox	Bridge Length: 392 ft	Bridge Width (curb-curb): 171.8 ft	Sufficiency Rating: 85.00
Average Daily Traffic: 45,733	Truck% 12%	Detour (miles) 13	Num of Lanes: 11	
Date Inspected: 11/3/2005	Structr Adequacy: 7	Superstr Code: 7	Safe Load: 5	
Substr Code: 7	Scour: 5			
BMS Element Num: 412	BMS Element Descr: Strip Seal Expansion Joint			
BMS Element Quantity: 176				
Project Number: Repair Year: CPMS Ad Date:	2009-11 Priority#: 2007-09 Priority#: Bridge \$'s: Repair Total\$'s:	5 \$300,000 \$528,000		
				
<p>Repair Description: Replace strip seal expansion joint.</p>				
<p>COMMENTS</p> <p>This expansion joint was installed in 1986 under contract 2620. Region Maintenance crews have done several emergency repairs. The existing joint allows water through which has eroded the fill around the supporting pier.</p> <p>Bridge Item cost based on \$1,000 / ft. Total project cost based on \$3,000 / ft.</p>				

Bridge Number: 5 / 342E	Structure ID 0008100E	Bridge Name: MCALLISTER CR	Milepost: 114.09	Region: Olympic
Year Built / YR Widened: 1968	Bridge Type: PCB	Bridge Length: 272 ft	Bridge Width (curb-curb): 48.0 ft	Sufficiency Rating: 70.78
Average Daily Traffic: 35,496	Truck% 12%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 11/15/2005	Structr Adequacy: 5	Superstr Code: 7	Safe Load: 5	
Substr Code: 5	Scour: 5			
BMS Element Num: 227	BMS Element Descr: Concrete Submerged Pile/Column			
BMS Element Quantity: 1 Each				
Project Number: 300507K	2009-11 Priority#: 1			
Repair Year: 2008	2007-09 Priority#: 13			
CPMS Ad Date: 6/30/2008	Bridge \$'s: \$50,000			
	Repair Total\$'s: \$75,000			



Repair Description:

Repair the submerged concrete columns in pier 2.

COMMENTS

The steel reinforcing is corroding causing concrete spalling in the columns in Pier 2. The east column will be repaired with a carbon fiber wrap. A future Seismic Retrofit project will retrofit all the columns.

The repair project is scheduled for 2008.

Bridge Number: 5 / 342N-E	Structure ID 0008100G	Bridge Name: MCALLISTER CR	Milepost: 114.09	Region: Olympic
Year Built / YR Widened: 1968	Bridge Type: CS	Bridge Length: 216 ft	Bridge Width (curb-curb): 23.0 ft	Sufficiency Rating: 66.47 SD
Average Daily Traffic: 880	Truck% 2%	Detour (miles) 6	Num of Lanes: 1	
Date Inspected: 11/15/2005	Structr Adequacy: 4	Superstr Code: 6	Safe Load: 5	
Substr Code: 4	Scour: 8			
BMS Element Num: 227	BMS Element Descr: Concrete Submerged Pile/Column			
BMS Element Quantity: 4 Each				
Project Number: 300507K	2009-11 Priority#: 1			
Repair Year: 2008	2007-09 Priority#: 14			
CPMS Ad Date: 6/30/2008	Bridge \$'s: \$200,000			
	Repair Total\$'s: \$350,000			



Repair Description:

Repair deteriorated submerged columns in pier 3.

COMMENTS

The steel reinforcing is corroding causing the concrete column to crack. The repair will add new steel jackets to the existing columns in pier 3.

This repair work is scheduled for 2008.

Bridge Number: 5 / 342W-S		Structure ID 0008100H		Bridge Name: MCALLISTER CR		Milepost: 114.09		Region: Olympic				
Year Built / YR Widened: 1968		Bridge Type: CS		Bridge Length: 168 ft		Bridge Width (curb-curb): 23.0 ft		Sufficiency Rating: 84.57				
Average Daily Traffic: 830		Truck% 2%	Detour (miles) 6		Num of Lanes: 1							
Date Inspected: 7/27/2006		Structr Adequacy: 5		Superstr Code: 7		Safe Load: 5						
Substr Code: 5		Scour: 8		BMS Element Num: 227		BMS Element Descr: Concrete Submerged Pile/Column						
BMS Element Quantity:		Project Number:		2009-11 Priority#: 32		Repair Year:				2007-09 Priority#:		
CPMS Ad Date:		Bridge \$'s: \$200,000		Repair Total\$'s: \$350,000		BMS Element Quantity:						
												
<p>Repair Description: Repair salt water deteriorated columns @ piers 2 & 4.</p>												
<p>COMMENTS</p> <p>The columns are showing signs of corrosion in the reinforcing steel. Repair with fiberglass jackets.</p>												

Bridge Number: 5 / 345E	Structure ID 0002069A	Bridge Name: NISQUALLY RIVER	Milepost: 114.86	Region: Olympic
Year Built / YR Widened: 1937 / 1982	Bridge Type: ST PCB	Bridge Length: 447 ft	Bridge Width (curb-curb): 42.6 ft	Sufficiency Rating: 40.22 SD
Average Daily Traffic: 41,057	Truck% 12%	Detour (miles) 6	Num of Lanes: 3	
Date Inspected: 4/21/2007	Superstr Code: 4	Substr Code: 7	Structr Adequacy: 4	Safe Load: 5
BMS Element Num: 113		BMS Element Descr: Steel Stringer		
BMS Element Quantity: 2,580 feet				
Project Number: 300522B	2009-11 Priority#: 1	Repair Year: 2009	2007-09 Priority#: 9	Bridge \$'s:
CPMS Ad Date: 2/11/2009	Repair Total\$'s: \$1,798,526			



Repair Description:

Modify steel stringer connections to mitigate the cracking problem in the webs along the top flange.

COMMENTS

There are eight lines of stringers (A-H). There is a 90° cope detail at both the top and bottom of all stringer webs at the floorbeam connections. Several of the stringers have a history of cracks or overcut notches in the copes as noted in the Bridge Inspection Report File #6 "Stringer cope crack / repair tracker " and File #8 "Cope Crack Map".

A contract in 2009 will repair the cracked stringers and seal the deck joints above the Floorbeams.

Bridge Number: 5 / 452W	Structure ID 0006792B	Bridge Name: PORTLAND AVE OC	Milepost: 134.87	Region: Olympic
Year Built / YR Widened: 1962 / 1990	Bridge Type: PCB	Bridge Length: 216 ft	Bridge Width (curb-curb): 72.0 ft	Sufficiency Rating: 85.19
Average Daily Traffic: 85,811	Truck% 8%	Detour (miles) 2	Num of Lanes: 5	
Date Inspected: 12/11/2006	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: 262 Feet				
Project Number:	2009-11 Priority#:	46		
Repair Year:	2007-09 Priority#:	32		
CPMS Ad Date:	Bridge \$'s:	\$131,000		
	Repair Total\$'s:	\$393,000		



Repair Description:

Replace the rubber bolt down expansion joints.

COMMENTS

The rubber bolt down expansion joints were installed in 1984 along with the modified concrete overlay. These joints have been repaired many times by Region Maintenance.

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

Bridge Number: 5 / 453	Structure ID 0006821A	Bridge Name: SR 167 E-N RAMP OC	Milepost: 135.17	Region: Olympic
Year Built / YR Widened: 1962 / 1970	Bridge Type: PCB	Bridge Length: 121 ft	Bridge Width (curb-curb): 143.3 ft	Sufficiency Rating: 85.00
Average Daily Traffic: 148,843	Truck% 8%	Detour (miles) 2	Num of Lanes: 9	No Photo Available
Date Inspected: 11/8/2006	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: 295 Feet				
Project Number:	2009-11 Priority#:	47		
Repair Year:	2007-09 Priority#:	31		
CPMS Ad Date:	Bridge \$'s:	\$75,000		
	Repair Total\$'s:	\$442,500		



Repair Description:

Replace the rubber bolt down expansion joints.

COMMENTS

The rubber bolt down expansion joints in the SB lanes (west side of bridge) were installed in 1984 along with the modified concrete overlay. These joints have been repaired many times by Region Maintenance.

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

Bridge Number: 5 / 455	Structure ID 0006979B	Bridge Name: EAST T ST SEWER OC	Milepost: 135.17	Region: Olympic		
Year Built / YR Widened: 1963 / 1970	Bridge Type: PCB	Bridge Length: 150 ft	Bridge Width (curb-curb): 120.0 ft	Sufficiency Rating: 84.00		
Average Daily Traffic: 148,843	Truck% 8%	Detour (miles) 2	Num of Lanes: 7	No Photo Available		
Date Inspected: 11/8/2006	Superstr Code: 7	Substr Code: 7	Structr Adequacy: 7		Safe Load: 5	Scour: N
BMS Element Num: 415	BMS Element Descr: Exp Joint - Rubber Bolt Down					
BMS Element Quantity: 260 Feet						
Project Number:	2009-11 Priority#:	48				
Repair Year:	2007-09 Priority#:	33				
CPMS Ad Date:	Bridge \$'s:	\$130,000				
	Repair Total\$'s:	\$390,000				



Repair Description:

Replace the rubber bolt down expansion joints.

COMMENTS

The rubber bolt down expansion joints in the SB lanes (west side of bridge) were installed in 1984 along with the modified concrete overlay. These joints have been repaired many times by Region Maintenance.

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

Bridge Number: 5 / 535E	Structure ID 0007816A	Bridge Name: NB VIADUCT	STA 2032	Milepost: 162.19	Region: Northwest
Year Built / YR Widened: 1966 / 1992	Bridge Type: PCB		Bridge Length: 901 ft	Bridge Width (curb-curb): 76.0 ft	Sufficiency Rating: 87.81
Average Daily Traffic: 98,250	Truck% 7%	Detour (miles) 2	Num of Lanes: 5		
Date Inspected: 11/6/2006	Structr Adequacy: 7		Superstr Code: 7		
Substr Code: 7	Safe Load: 5		Scour: N		
BMS Element Num: 408					
BMS Element Descr: Exp Jnt - Steel Sliding Plate					
BMS Element Quantity: 304 Feet					
Project Number:	2009-11 Priority#:	14			
Repair Year:	2007-09 Priority#:	19			
CPMS Ad Date:	Bridge \$'s:	\$304,000			
	Repair Total\$'s:	\$760,000			
					
Repair Description: Replace the Steel Sliding Plate expansion joints.					
COMMENTS					
Sections of the existing steel sliding plate expansion joints have failed and have been replaced with a poured rubber joint. These expansion joints need to be replaced.					
Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.					

Bridge Number: 5 / 536N-W	Structure ID 0007741G	Bridge Name: N-W RAMP I-5 OC	Milepost: 162.98	Region: Northwest
Year Built / YR Widened: 1967	Bridge Type: CBOX	Bridge Length: 1,722 ft	Bridge Width (curb-curb): 21.0 ft	Sufficiency Rating: 78.89
Average Daily Traffic: 3,086	Truck% 5%	Detour (miles) 6	Num of Lanes: 1	
Date Inspected: 10/26/2006	Superstr Code: 6	Substr Code: 7	Structr Adequacy: 6	Safe Load: 5
BMS Element Num: 408		BMS Element Descr: Exp Jnt - Steel Sliding Plate		
BMS Element Quantity: 150 Feet				
Project Number:	2009-11 Priority#:	15		
Repair Year:	2007-09 Priority#:	20		
CPMS Ad Date:	Bridge \$'s:	\$150,000		
	Repair Total\$'s:	\$375,000		



Repair Description:

Replace the Steel Sliding Plate expansion joints.

COMMENTS

Sections of the existing steel sliding plate expansion joints have failed and have been replaced with a poured rubber joint. These expansion joints need to be replaced.

The steel sliding plate has been removed from the expansion joints in spans 2, 13, and 17 creating an open joint.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 537E-S		Structure ID 0007741N		Bridge Name: E-S RAMP BR		Milepost: 162.99		Region: Northwest		
Year Built / YR Widened: 1967		Bridge Type: CBox		Bridge Length: 1,206 ft		Bridge Width (curb-curb): 21.0 ft		Sufficiency Rating: 96.86		
Average Daily Traffic: 7,505		Truck% 5%	Detour (miles) 6		Num of Lanes: 1					
Date Inspected: 8/23/2006		Structr Adequacy: 6		Superstr Code: 6		Safe Load: 5				
Substr Code: 7		Scour: N		BMS Element Num: 408		BMS Element Descr: Exp Jnt - Steel Sliding Plate				
BMS Element Quantity: 120		Project Number: 2009-11 Priority#: 16		Repair Year: 2007-09 Priority#:		Bridge \$'s: \$120,000				
CPMS Ad Date:		Repair Total\$'s: \$300,000								



No Photo Available

Repair Description:

Replace steel plate expansion joints

COMMENTS

Sections of the existing steel sliding plate expansion joints have failed and need to be replaced.
 Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 537N	Structure ID 0007741R	Bridge Name: S-E RAMP WB LANES		Milepost: 163.00	Region: Northwest
Year Built / YR Widened: 1967	Bridge Type: CBOX		Bridge Length: 2,885 ft	Bridge Width (curb-curb): 28.0 ft	Sufficiency Rating: 27.54 SD
Average Daily Traffic: 79,346	Truck% 7%	Detour (miles) 6	Num of Lanes: 2	No Photo Available	
Date Inspected: 5/9/2006	Structr Adequacy: 4				
Superstr Code: 5	Safe Load: 5				
Substr Code: 7	Scour: N				
BMS Element Num: 408 BMS Element Descr: Exp Jnt - Steel Sliding Plate BMS Element Quantity: 280 feet					
Project Number: 100562S	2009-11 Priority#:	17			
Repair Year:	2007-09 Priority#:	12			
CPMS Ad Date:	Bridge \$'s:	\$280,000			
	Repair Total\$'s:	\$700,000			



Repair Description:

Replace the existing steel sliding plate expansion joints.

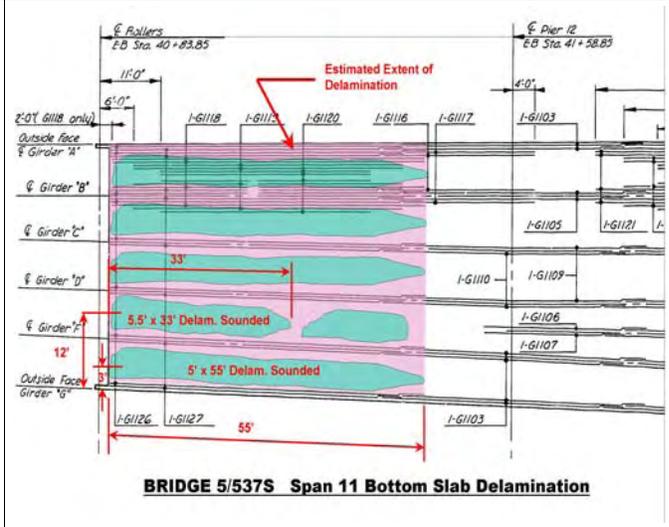
COMMENTS

The original steel sliding plate expansion joints are breaking up and in need of replacement.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 537N-W		Structure ID 0007741H		Bridge Name: N-6TH RAMP BRIDGE		Milepost: 162.98		Region: Northwest	
Year Built / YR Widened: 1967		Bridge Type: CBox		Bridge Length: 720 ft		Bridge Width (curb-curb): 21.0 ft		Sufficiency Rating: 96.65	
Average Daily Traffic: 8,243		Truck% 30%		Detour (miles) 6		Num of Lanes: 1			
Date Inspected: 5/9/2006		Structr Adequacy: 6		Superstr Code: 6		Safe Load: 5		Substr Code: 7	
Scour: N									
BMS Element Num: 408									
BMS Element Descr: Exp Jnt - Steel Sliding Plate									
BMS Element Quantity: 63									
Project Number:		2009-11 Priority#:		18					
Repair Year:		2007-09 Priority#:							
CPMS Ad Date:		Bridge \$'s:		\$63,000					
		Repair Total\$'s:		\$157,500					
									
Repair Description:									
Replace the existing steel sliding plate expansion joints.									
COMMENTS									
The original steel sliding plate expansion joints are breaking up and in need of replacement.									
Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.									

Bridge Number: 5 / 537S	Structure ID 0007741T	Bridge Name: EB LANES I-5 OC	Milepost: 163.00	Region: Northwest
Year Built / YR Widened: 1966	Bridge Type: CBOX	Bridge Length: 1,793 ft	Bridge Width (curb-curb): 28.0 ft	Sufficiency Rating: 32.00 SD
Average Daily Traffic: 30,000	Truck% 30%	Detour (miles) 6	Num of Lanes: 2	
Date Inspected: 11/6/2006	Structr Adequacy: 4	Superstr Code: 4	Safe Load: 5	
Substr Code: 7	Scour: N			
BMS Element Num: 105	BMS Element Descr: Concrete Box Girder			
BMS Element Quantity: 600 feet				
Project Number: 100562S	2009-11 Priority#: 12			
Repair Year: 2007-09	Priority#: 10			
CPMS Ad Date:	Bridge \$'s: \$100,000			
	Repair Total\$'s: \$500,000			



Repair Description:

Repair delaminated concrete areas on the bottom side of the bottom slab.

COMMENTS

The expansion joints allow water and contaminants to flow onto the bottom slab of the Concrete Box superstructure which has caused delaminations in the concrete from the reinforcing steel.

The 10/5/2002 Bridge Inspection recorded the BMS states for Element 105 Concrete Box Girder to be: Condition State 2 = 700LF , Condition State 3 = 500LF , Condition State 4 = 100LF.

Bridge Item costs updated by the Bridge Office Specs and Estimates unit on 4/27/04. Total\$ included in expansion joint repair.

Bridge Number: 5 / 537S	Structure ID 0007741T	Bridge Name: EB LANES I-5 OC	Milepost: 163.00	Region: Northwest
Year Built / YR Widened: 1966	Bridge Type: CBOX	Bridge Length: 1,793 ft	Bridge Width (curb-curb): 28.0 ft	Sufficiency Rating: 32.00 SD
Average Daily Traffic: 30,000	Truck% 30%	Detour (miles) 6	Num of Lanes: 2	
Date Inspected: 11/6/2006	Superstr Code: 4	Substr Code: 7	Structr Adequacy: 4	
			Safe Load: 5	
			Scour: N	
BMS Element Num: 408 BMS Element Descr: Exp Jnt - Steel Sliding Plate BMS Element Quantity: 246 Feet				
Project Number: 100562S	2009-11 Priority#:	13		
Repair Year:	2007-09 Priority#:	11		
CPMS Ad Date:	Bridge \$'s:	\$246,000		
	Repair Total\$'s:	\$615,000		



Repair Description:

Replace the steel sliding plate expansion joints.

COMMENTS

The original steel sliding plate expansion joints are breaking up and allowing water and contaminants to flow onto the bottom slab of the Concrete Box superstructure. This has caused delaminations in the concrete from the reinforcing steel.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 538E		Structure ID 0007741C		Bridge Name: NB VIADUCT		Milepost: 162.98		Region: Northwest	
Year Built / YR Widened: 1966 / 1992		Bridge Type: CS		Bridge Length: 872 ft		Bridge Width (curb-curb): 57.7 ft		Sufficiency Rating: 77.49	
Average Daily Traffic: 79,346		Truck% 7%		Detour (miles) 2		Num of Lanes: 4			
Date Inspected: 11/7/2006		Structr Adequacy: 5		Superstr Code: 6		Safe Load: 5			
Substr Code: 7		Scour: N		BMS Element Num: 408		BMS Element Descr: Exp Jnt - Steel Sliding Plate			
BMS Element Quantity: 140 Feet		Project Number:		2009-11 Priority#: 19		Repair Year: 2007-09 Priority#: 21			
CPMS Ad Date:		Bridge \$'s: \$140,000		Repair Total\$'s: \$350,000					
<p>No Photo Available</p>					<p>No Photo Available</p>				
<p>Repair Description: Replace the steel sliding plate expansion joints at 4 locations.</p>									
<p>COMMENTS</p>									
<p>Sections of the existing steel sliding plate expansion joints are loose. These expansion joints need to be replaced.</p> <p>Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.</p>									

Bridge Number: 5 / 543E	Structure ID 0007504A	Bridge Name: KING-JACKSON ST OC	Milepost: 164.41	Region: Northwest
Year Built / YR Widened: 1965 / 1992	Bridge Type: CBox	Bridge Length: 706 ft	Bridge Width (curb-curb): 58.8 ft	Sufficiency Rating: 67.31
Average Daily Traffic: 79,500	Truck% 5%	Detour (miles) 2	Num of Lanes: 4	
Date Inspected: 8/24/2006	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 4	
Substr Code: 7	Scour: N			
BMS Element Num: 408	BMS Element Descr: Exp Jnt - Steel Sliding Plate			
BMS Element Quantity: 58				
Project Number: Repair Year: CPMS Ad Date:	2009-11 Priority#: 2007-09 Priority#:	20	Bridge \$'s: \$58,000	
	Repair Total\$'s: \$145,000			
		<p style="text-align: center; font-size: 2em; font-weight: bold; transform: rotate(-10deg);">No Photo Available</p>		
<p>Repair Description: Replace the steel sliding plate expansion joints at 1 locations.</p>				
<p>COMMENTS</p>				
<p>Sections of the existing steel sliding plate expansion joints are loose. These expansion joints need to be replaced.</p> <p>Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.</p>				

Bridge Number: 5 / 543NCD	Structure ID 0007504C	Bridge Name: NBCD KING JACKSON ST OC	Milepost: 164.41	Region: Northwest
Year Built / YR Widened: 1965	Bridge Type: CBox	Bridge Length: 709 ft	Bridge Width (curb-curb): 48.0 ft	Sufficiency Rating: 56.17 FO
Average Daily Traffic: 61,357	Truck% 10%	Detour (miles) 3	Num of Lanes: 4	
Date Inspected: 8/24/2006	Superstr Code: 7	Substr Code: 7	Structr Adequacy: 5	Safe Load: 5
BMS Element Num: 408		BMS Element Descr: Exp Jnt - Steel Sliding Plate		
BMS Element Quantity: 113				
Project Number:	2009-11 Priority#:	21		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$113,000		
	Repair Total\$'s:	\$282,500		



Repair Description:

Replace the steel sliding plate expansion joints.

COMMENTS

Sections of the existing steel sliding plate expansion joints are loose. These expansion joints need to be replaced.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 543SCD	Structure ID 0007504D	Bridge Name: SBCD KING JACKSON ST OC	Milepost: 164.41	Region: Northwest
Year Built / YR Widened: 1965	Bridge Type: CBox	Bridge Length: 709 ft	Bridge Width (curb-curb): 60.0 ft	Sufficiency Rating: 64.81
Average Daily Traffic: 73,582	Truck% 55%	Detour (miles) 3	Num of Lanes: 4	
Date Inspected: 8/24/2006	Superstr Code: 6	Substr Code: 7	Structr Adequacy: 5	Safe Load: 5
BMS Element Num: 408		BMS Element Descr: Exp Jnt - Steel Sliding Plate		
BMS Element Quantity: 150				
Project Number:	2009-11 Priority#:	22		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$150,000		
	Repair Total\$'s:	\$375,000		



Repair Description:

Replace the steel sliding plate expansion joints.

COMMENTS

Sections of the existing steel sliding plate expansion joints are loose. These expansion joints need to be replaced.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 543W	Structure ID 0007504B	Bridge Name: KING-JACKSON ST OC	Milepost: 164.41	Region: Northwest
Year Built / YR Widened: 1965 / 1992	Bridge Type: CBox	Bridge Length: 712 ft	Bridge Width (curb-curb): 55.8 ft	Sufficiency Rating: 92.55
Average Daily Traffic: 79,500	Truck% 5%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 8/24/2006	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	Substr Code: 7
BMS Element Num: 408	BMS Element Descr: Exp Jnt - Steel Sliding Plate			
BMS Element Quantity: 56				
Project Number:	2009-11 Priority#:	23		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$56,000		
	Repair Total\$'s:	\$140,000		



No Photo Available

Repair Description:

Replace the steel sliding plate expansion joints.

COMMENTS

Sections of the existing steel sliding plate expansion joints are loose. These expansion joints need to be replaced.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 545NCD	Structure ID 0007110F	Bridge Name: NBCD VIADUCT STA 2195	Milepost: 165.69	Region: Northwest
Year Built / YR Widened: 1964	Bridge Type: CBox	Bridge Length: 702 ft	Bridge Width (curb-curb): 32.0 ft	Sufficiency Rating: 79.42
Average Daily Traffic: 29,230	Truck% 5%	Detour (miles) 3	Num of Lanes: 2	
Date Inspected: 10/23/2005	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 7	Scour: N	BMS Element Num: 408		
BMS Element Descr: Exp Jnt - Steel Sliding Plate		BMS Element Quantity: 96		
Project Number:	2009-11 Priority#:	24		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$96,000		
	Repair Total\$'s:	\$240,000		



Repair Description:

Replace the steel sliding plate expansion joints.

COMMENTS

Sections of the existing steel sliding plate expansion joints are loose. These expansion joints need to be replaced.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 545SCD	Structure ID 0007110G	Bridge Name: SBCD VIADUCT STA 2195	Milepost: 165.71	Region: Northwest
Year Built / YR Widened: 1964 / 1991	Bridge Type: CBox	Bridge Length: 806 ft	Bridge Width (curb-curb): 44.9 ft	Sufficiency Rating: 67.67 FO
Average Daily Traffic: 73,582	Truck% 5%	Detour (miles) 3	Num of Lanes: 3	
Date Inspected: 10/11/2005	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	
Substr Code: 7	Scour: N			
BMS Element Num: 406	BMS Element Descr: Comp Seal w/ Steel Header			
BMS Element Quantity: 180				
Project Number:	2009-11 Priority#:	25		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$180,000		
	Repair Total\$'s:	\$450,000		



Repair Description:

Replace expansion joints at 4 locations.

COMMENTS

Sections of the existing steel sliding plate expansion joints have been repaired by Region Maintenance crews. These expansion joints need to be replaced.

Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.

Bridge Number: 5 / 562E	Structure ID 0006800B	Bridge Name: NB LANES VIADUCT	Milepost: 166.98	Region: Northwest
Year Built / YR Widened: 1963	Bridge Type: CTB	Bridge Length: 381 ft	Bridge Width (curb-curb): 66.0 ft	Sufficiency Rating: 83.22
Average Daily Traffic: 108,000	Truck% 5%	Detour (miles) 5	Num of Lanes: 4	
Date Inspected: 12/7/2005	Structr Adequacy: 6	Superstr Code: 7	Safe Load: 5	
Substr Code: 6	Scour: N			
BMS Element Num: 408	BMS Element Descr: Exp Jnt - Steel Sliding Plate			
BMS Element Quantity: 90				
Project Number: Repair Year: CPMS Ad Date:	2009-11 Priority#: 2007-09 Priority#:	26	Bridge \$'s: \$90,000	
	Repair Total\$'s: \$225,000			
		<p style="text-align: center; font-size: 2em; font-weight: bold; transform: rotate(-10deg);">No Photo Available</p>		
<p>Repair Description: Replace the steel sliding plate expansion joints.</p>				
<p>COMMENTS</p>				
<p>Sections of the existing steel sliding plate expansion joints have been repaired by Region Maintenance crews. These expansion joints need to be replaced.</p> <p>Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.</p>				

Bridge Number: 5 / 647E	Structure ID 0008226B	Bridge Name: UNION SLOUGH	Milepost: 197.09	Region: Northwest
Year Built / YR Widened: 1968	Bridge Type: PCB CTB	Bridge Length: 396 ft	Bridge Width (curb-curb): 48.0 ft	Sufficiency Rating: 86.56
Average Daily Traffic: 55,401	Truck% 8%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 10/28/2005	Structr Adequacy: 6	Superstr Code: 7	Safe Load: 5	Substr Code: 6
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down		
BMS Element Quantity: 240 Feet				
Project Number:	2009-11 Priority#:	27		
Repair Year:	2007-09 Priority#:	34		
CPMS Ad Date:	Bridge \$'s:	\$120,000		
	Repair Total\$'s:	\$360,000		



Repair Description:

Replace the Rubber Bolt Down expansion joints.

COMMENTS

The rubber bolt down expansion joints were installed in 1985 along with the modified concrete overlay. These joints have been repaired many times by Region Maintenance.

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

Bridge Number: 5 / 647W		Structure ID 0008226C		Bridge Name: UNION SLOUGH		Milepost: 197.09		Region: Northwest	
Year Built / YR Widened: 1968		Bridge Type: PCB CTB		Bridge Length: 396 ft		Bridge Width (curb-curb): 48.0 ft		Sufficiency Rating: 84.56	
Average Daily Traffic: 55,401		Truck% 8%	Detour (miles) 2	Num of Lanes: 3					
Date Inspected: 10/28/2005		Structr Adequacy: 6							
Superstr Code: 7		Safe Load: 5							
Substr Code: 6		Scour: 8							
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down		BMS Element Quantity: 240 Feet					
Project Number:		2009-11 Priority#:		28					
Repair Year:		2007-09 Priority#:		35					
CPMS Ad Date:		Bridge \$'s:		\$120,000					
		Repair Total\$'s:		\$360,000					
									
<p>Repair Description: Replace the Rubber Bolt Down expansion joints.</p>									
<p>COMMENTS</p>									
<p>The rubber bolt down expansion joints were installed in 1985 along with the modified concrete overlay. These joints have been repaired many times by Region Maintenance.</p>									
<p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>									

Bridge Number: 5 / 648W	Structure ID 0008226E	Bridge Name: STEAMBOAT SLOUGH	Milepost: 197.90	Region: Northwest
Year Built / YR Widened: 1968	Bridge Type: PCG	Bridge Length: 1,026 ft	Bridge Width (curb-curb): 48.0 ft	Sufficiency Rating: 81.14
Average Daily Traffic: 63,000	Truck% 8%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 4/22/2006	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	
Substr Code: 7	Scour: 7	BMS Element Num: 412		
BMS Element Descr: Strip Seal Expansion Joint		BMS Element Quantity: 96		
Project Number:	2009-11 Priority#: 29	Repair Year:	2007-09 Priority#:	
CPMS Ad Date:	Bridge \$'s: \$144,000	Repair Total\$'s: \$240,000		
				
<p>Repair Description: Replace strip seal expansion joint at two locations.</p>				
<p>COMMENTS</p>				
<p>Sections of the existing steel sliding plate expansion joints have failed and need to be replaced.</p> <p>Bridge item cost based on \$1,500 per foot. Total project cost based on \$2,500 per foot.</p>				

Bridge Number: 5 / 650E	Structure ID 0008400A	Bridge Name: EBEY SL BN RY SR 529 OC	Milepost: 198.50	Region: Northwest
Year Built / YR Widened: 1969	Bridge Type: PCG	Bridge Length: 2,062 ft	Bridge Width (curb-curb): 60.0 ft	Sufficiency Rating: 74.72 FO
Average Daily Traffic: 52,500	Truck% 8%	Detour (miles) 2	Num of Lanes: 4	
Date Inspected: 12/3/2006	Structr Adequacy: 5	Superstr Code: 7	Safe Load: 5	
Substr Code: 6	Scour: 3			
BMS Element Num: 416	BMS Element Descr: Modular Expansion Joint			
BMS Element Quantity: 600				
Project Number:	2009-11 Priority#:	30		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$900,000		
	Repair Total\$'s:	\$1,800,000		



Repair Description:

Replace Modular Expansion Joints and strip seal joints.

COMMENTS

Sections of the existing steel sliding plate expansion joints have failed and need to be replaced.

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

Bridge Number: 5 / 650W		Structure ID 0004196A		Bridge Name: EBEY SL BN RY SR 529 OC		Milepost: 198.51		Region: Northwest							
Year Built / YR Widened: 1954 / 1968		Bridge Type: SG CTB		Bridge Length: 1,920 ft		Bridge Width (curb-curb): 54.0 ft		Sufficiency Rating: 70.10							
Average Daily Traffic: 52,500	Truck% 8%	Detour (miles) 2	Num of Lanes: 4												
Date Inspected: 12/3/2006		Structr Adequacy: 6		Superstr Code: 6						Safe Load: 5		Substr Code: 7		Scour: 5	
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down													
BMS Element Quantity: 924															
Project Number:		2009-11 Priority#:		31						Repair Year:		2007-09 Priority#:			
CPMS Ad Date:		Bridge \$'s:		\$470,000		Repair Total\$'s:		\$1,386,000							
															
<p>Repair Description: Replace the Rubber Bolt Down expansion joints.</p>															
<p>COMMENTS</p>															
<p>The rubber bolt down expansion joints were installed in 1985 along with the modified concrete overlay. These joints have been repaired many times by Region Maintenance.</p> <p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>															

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	Structr Adequacy: 4	Superstr Code: 6	Safe Load: 5	
Substr Code: 4	Scour: 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	CPMS Ad Date: 4/7/2008	Repair Total\$'s: \$300,000		



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: 18 / 9	Structure ID 0005082A	Bridge Name: NP RY OC	Milepost: 3.82	Region: Northwest
Year Built / YR Widened: 1956 / 1975	Bridge Type: CBox	Bridge Length: 1,151 ft	Bridge Width (curb-curb): 69.2 ft	Sufficiency Rating: 86.26
Average Daily Traffic: 44,000	Truck% 6%	Detour (miles) 3	Num of Lanes: 5	
Date Inspected: 12/20/2005	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	Substr Code: 7
BMS Element Num: 415		BMS Element Descr: Rubber Bolt Down exp joints		
BMS Element Quantity: 413				
Project Number: 2009-11 Priority#: 33	Repair Year: 2007-09 Priority#:	Bridge \$'s: \$309,750	Repair Total\$'s: \$619,500	



Repair Description:

Replace Expansion Joints at 6 locations.

COMMENTS

The rubber bolt down expansion joints are deteriorated. Maintenance has removed and replaced sections of the expansion joint.

Bridge Item cost based on \$750 / ft. Total project cost based on \$1,500 / ft.

Bridge Number: 18 / 9	Structure ID 0005082A	Bridge Name: NP RY OC	Milepost: 3.82	Region: Northwest
Year Built / YR Widened: 1956 / 1975	Bridge Type: CBox	Bridge Length: 1,151 ft	Bridge Width (curb-curb): 69.2 ft	Sufficiency Rating: 86.26
Average Daily Traffic: 44,000	Truck% 6%	Detour (miles) 3	Num of Lanes: 5	
Date Inspected: 12/20/2005	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	Substr Code: 7
BMS Element Num: 161		BMS Element Descr: Steel Hanger Assembly		
BMS Element Quantity: 58				
Project Number:	2009-11 Priority#:	34		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$250,000		
	Repair Total\$'s:	\$450,000		



Repair Description:

Clean and Paint Steel Hanger and Pin assembly.

COMMENTS

The existing pins and hangers are rusty. They need to be cleaned and painted with an epoxy rust penetrating sealer.

Use a lump sum bridge Item cost of \$4,000 for each or say \$250,000. Use \$200,000 for Region items.
Use \$450,000 for total.

Bridge Number: 90 / 10W-S		Structure ID 0007565B		Bridge Name: I-5 OC, W-S RAMP		Milepost: 2.40		Region: Northwest				
Year Built / YR Widened: 1965 / 1988		Bridge Type: CBox		Bridge Length: 1,245 ft		Bridge Width (curb-curb): 20.5 ft		Sufficiency Rating: 79.11 FO				
Average Daily Traffic: 13,247		Truck% 5%	Detour (miles) 6		Num of Lanes: 1							
Date Inspected: 7/11/2005		Structr Adequacy: 6		Superstr Code: 6		Safe Load: 5						
Substr Code: 7		Scour: N		BMS Element Num: 408		BMS Element Descr: Steel Sliding Plate						
BMS Element Quantity: 164		Project Number:		2009-11 Priority#: 35		Repair Year:				2007-09 Priority#:		
CPMS Ad Date:		Bridge \$'s: \$164,000		Repair Total\$'s: \$410,000								
												
<p>Repair Description: Replace Expansion Joints</p>												
<p>COMMENTS</p>												
<p>Sections of the existing steel sliding plate expansion joints have failed and need to be replaced.</p> <p>Bridge Item cost based on \$1,000 / ft. Total project cost based on \$2,500 / ft.</p>												

Bridge Number: 90 / 25N	Structure ID 0012271A	Bridge Name: HOMER M. HADLEY	Milepost: 4.24	Region: Northwest
Year Built / YR Widened: 1989	Bridge Type: CFP POBX SBOX	Bridge Length: 9,559 ft	Bridge Width (curb-curb): 92.0 ft	Sufficiency Rating: 71.79 FO
Average Daily Traffic: 57,401	Truck% 	Detour (miles) 	Num of Lanes: 7	
Date Inspected: 5/31/2005	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	
Substr Code: 7	Scour: 8			
BMS Element Num: 416	BMS Element Descr: Assembly Joint Seal			
BMS Element Quantity: 540 LF				
Project Number:	2009-11 Priority#: 2			
Repair Year: 2009	2007-09 Priority#: 2			
CPMS Ad Date:	Bridge \$'s: \$1,500,000			
	Repair Total\$'s: \$3,000,000			



Repair Description:

Replace Modular Expansion Joints with 48" movement at Pontoon A and Pontoon R in both Mainline and Center Roadway.

COMMENTS

The original modular joints developed cracks soon after installation in 1989. A reasearch project reviewed the problem and concluded that these joints will continue to crack. There are no cost effective repair solutions. The expansion joints need to be replaced with new ones that are built using new design criteria that will resist future cracking.

A project is being planned for 2009.

Bridge Number: 90 / 25N	Structure ID 0012271A	Bridge Name: HOMER M. HADLEY	Milepost: 4.24	Region: Northwest
Year Built / YR Widened: 1989	Bridge Type: CFP POBX SBOX	Bridge Length: 9,559 ft	Bridge Width (curb-curb): 92.0 ft	Sufficiency Rating: 71.79 FO
Average Daily Traffic: 57,401	Truck% 	Detour (miles) 	Num of Lanes: 7	
Date Inspected: 5/31/2005	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	Substr Code: 7
BMS Element Num: 148		BMS Element Descr: Floating Bridge - Anchor Cable		
BMS Element Quantity: 10				
Project Number:	2009-11 Priority#: 4			
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s: \$2,750,000	Repair Total\$'s: \$3,050,000		



Repair Description:

Replace 10 anchor cables.

COMMENTS

A consultant hired by the Bridge Preservation Office recommends the following anchor cable be replaced:
Asw , Bn , Cn , Dn , Ds , Es , Fs , Gs , Hn , Qn

Bridge Item cost uses \$250,000 for install of each cable and \$20,000 cable cost...\$270k x 10 = \$2.75m
Use \$300,000 to develop PS&E and construction engineering and contingencies.

Bridge Number: 90 / 25N	Structure ID 0012271A	Bridge Name: HOMER M. HADLEY	Milepost: 4.24	Region: Northwest
Year Built / YR Widened: 1989	Bridge Type: CFP POBX SBOX	Bridge Length: 9,559 ft	Bridge Width (curb-curb): 92.0 ft	Sufficiency Rating: 71.79 FO
Average Daily Traffic: 57,401	Truck%	Detour (miles)	Num of Lanes: 7	
Date Inspected: 5/31/2005	Structr Adequacy: 6	Superstr Code: 6	Safe Load: 5	Substr Code: 7
BMS Element Num: 148		BMS Element Descr: Floating Bridge - Anchor Cable		
BMS Element Quantity: 13				
Project Number:	2009-11 Priority#: 9			
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s: \$3,510,000	Repair Total\$'s: \$3,810,000		



Repair Description:

Replace 13 anchor cables.

COMMENTS

Recommendation from consultant hired by the Bridge Preservation Office recommends the following 5 anchor cable be replaced: L4s , En , Fn , Mn , On

There are also 8 anchor cables that were installed in 1983 that need to be replaced before they are 30 years old. L6n, L5n , L4n, L3n, L2n, L1n, Os, Jn

Bridge Item cost uses \$250,000 for install of each cable and \$20,000 cable cost...\$270k x 13 = \$3.51m
Use \$300,000 to develop PS&E and construction engineering and contingencies.

Bridge Number: 90 / 25S	Structure ID 000000KN	Bridge Name: LACEY V. MURROW BR	Milepost: 4.24	Region: Northwest
Year Built / YR Widened: 1940 / 1992	Bridge Type: CFP SA ST CBOX S	Bridge Length: 8,981 ft	Bridge Width (curb-curb): 52.0 ft	Sufficiency Rating: 90.80
Average Daily Traffic: 57,401	Truck% 4%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 6/5/2007	Structr Adequacy: 6	Superstr Code: 7	Safe Load: 5	
Substr Code: 6	Scour: 8			
BMS Element Num: 148	BMS Element Descr: Floating Bridge - Anchor Cable			
BMS Element Quantity: 9				
Project Number:	2009-11 Priority#:	10		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$2,430,000		
	Repair Total\$'s:	\$2,730,000		



Repair Description:

Replace 9 anchor cables.

COMMENTS

Recommendation from consultant hired by the Bridge Preservation Office recommends the following anchor cable be replaced: Es , Js , Ks , L1n , L2n , L3n , Ls , Ns , Ps

Bridge Item cost uses \$250,000 for install of each cable and \$20,000 cable cost...\$270k x 9 = \$2.4m
Use \$300,000 to develop PS&E and construction engineering and contingencies.

Bridge Number: 90 / 540N	Structure ID 0006579B	Bridge Name: HANGMAN CR	Milepost: 279.49	Region: Eastern
Year Built / YR Widened: 1963	Bridge Type: CBOX	Bridge Length: 1,222 ft	Bridge Width (curb-curb): 44.0 ft	Sufficiency Rating: 67.56
Average Daily Traffic: 24,152	Truck% 13%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 9/21/2005	Superstr Code: 6	Substr Code: 5	Structr Adequacy: 5	Safe Load: 5
BMS Element Num: 105		BMS Element Descr: Concrete Box Girder		
BMS Element Quantity: 2				
Project Number:	2009-11 Priority#:	36		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$150,000		
	Repair Total\$'s:	\$300,000		



Repair Description:

Remove loose concrete, clean rusty steel and apply a patching material and sealer.

COMMENTS

The strip seal expansion joints over the interior hinges were replaced in 1999. Shortly after the expansion joints were replaced the gap in the hinged area closed.

Use assumed costs of \$150,000 and \$300,000 until better estimates are developed.

Bridge Number: 90 / 540S	Structure ID 0006579B	Bridge Name: HANGMAN CR	Milepost: 279.49	Region: Eastern
Year Built / YR Widened: 1963	Bridge Type: CBOX	Bridge Length: 1,222 ft	Bridge Width (curb-curb): 44.0 ft	Sufficiency Rating: 67.56
Average Daily Traffic: 24,152	Truck% 13%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 9/21/2005	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 5	Scour: 7			
BMS Element Num: 105	BMS Element Descr: Concrete Box Girder			
BMS Element Quantity: 2				
Project Number:	2009-11 Priority#:	37		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$150,000		
	Repair Total\$'s:	\$300,000		



Repair Description:

Remove loose concrete, clean rusty steel and apply a patching material and sealer.

COMMENTS

The strip seal expansion joints over the interior hinges were replaced in 1999. Shortly after the expansion joints were replaced the gap in the hinged area closed.

Use assumed costs of \$150,000 and \$300,000 until better estimates are developed.

Bridge Number: 101 / 508E	Structure ID 0005677A	Bridge Name: MUD BAY	Milepost: 362.83	Region: Olympic
Year Built / YR Widened: 1958	Bridge Type: CS (Hollow)	Bridge Length: 290 ft	Bridge Width (curb-curb): 28.0 ft	Sufficiency Rating: 53.19 SD
Average Daily Traffic: 13,448	Truck% 8%	Detour (miles) 2	Num of Lanes: 2	
Date Inspected: 7/24/2006	Superstr Code: 6	Substr Code: 4	Structr Adequacy: 4	Safe Load: 5
BMS Element Num: 227		BMS Element Descr: Concrete Submerged Pile/Column		
BMS Element Quantity: 33 Each				
Project Number: 310150C	2009-11 Priority#: 1	2007-09 Priority#: 8	Bridge \$'s: \$150,000	
Repair Year: 2008	CPMS Ad Date: 1/9/2008		Repair Total\$'s: \$513,753	



Repair Description:

Repair salt water deteriorated columns in piers 4, 5 & 6.

COMMENTS

Each pile/column is approximately 16" in diameter and 3 feet on center. There are 11 piles per pier, 33 total that need to be repaired. The repair will consist of cleaning the column and then adding a new fiberglass concrete jacket around each column.

The contract is being advertised in January 2008 with construction planned for the summer of 2008.

Bridge Number: 101 / 508W	Structure ID 0005677B	Bridge Name: MUD BAY	Milepost: 362.83	Region: Olympic
Year Built / YR Widened: 1958	Bridge Type: CS (Hollow)	Bridge Length: 290 ft	Bridge Width (curb-curb): 28.0 ft	Sufficiency Rating: 53.19 SD
Average Daily Traffic: 13,448	Truck% 8%	Detour (miles) 2	Num of Lanes: 2	
Date Inspected: 8/22/2006	Superstr Code: 6	Substr Code: 4	Structr Adequacy: 4	Safe Load: 5
BMS Element Num: 227		BMS Element Descr: Concrete Submerged Pile/Column		
BMS Element Quantity: 33 Each				
Project Number: 310150C	2009-11 Priority#: 1	2007-09 Priority#: 7	Bridge \$'s: \$150,000	
Repair Year: 2008	CPMS Ad Date: 1/9/2008	Repair Total\$'s: \$513,753		



Repair Description:

Repair salt water deteriorated columns in piers 4, 5 & 6.

COMMENTS

Each pile/column is approximately 16" in diameter and 3 feet on center. There are 11 piles per pier, 33 total that need to be repaired. The repair will consist of cleaning the column and then adding a new fiberglass concrete jacket around each column.

The contract is being advertised in January 2008 with construction planned for the summer of 2008.

Bridge Number: 153 / 10	Structure ID 0002450A	Bridge Name: METHOW R	Milepost: 11.83	Region: North Central
Year Built / YR Widened: 1939	Bridge Type: CTB	Bridge Length: 476 ft	Bridge Width (curb-curb): 24.0 ft	Sufficiency Rating: 44.86
Average Daily Traffic: 1,957	Truck% 8%	Detour (miles) 37	Num of Lanes: 2	
Date Inspected: 9/26/2006	Superstr Code: 6	Substr Code: 5	Structr Adequacy: 4	Safe Load: 5
			Scour: 3	
BMS Element Num: 331	BMS Element Descr: Concrete Bridge Rail			
BMS Element Quantity: 952 LF				
Project Number:	2009-11 Priority#:	49		
Repair Year:	2007-09 Priority#:	25		
CPMS Ad Date:	Bridge \$'s:	\$200,000		
	Repair Total\$'s:	\$300,000		



Repair Description:

Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.

COMMENTS

The concrete balluster bridge rails are deteriorated with exposed reinforcing steel.

The costs and details for the concrete bridge rail replacement should be similar to those used on bridge 153/20 (16315) in 2002.

Bridge Number: 153 / 16	Structure ID 0003507A	Bridge Name: METHOW R	Milepost: 16.85	Region: North Central
Year Built / YR Widened: 1939 / 1949	Bridge Type: CTB	Bridge Length: 454 ft	Bridge Width (curb-curb): 24.0 ft	Sufficiency Rating: 38.67
Average Daily Traffic: 865	Truck% 12%	Detour (miles) 63	Num of Lanes: 2	
Date Inspected: 9/27/2006	Structr Adequacy: 4	Superstr Code: 6	Safe Load: 5	
Substr Code: 5	Scour: 3	BMS Element Num: 331		
BMS Element Descr: Concrete Bridge Rail		BMS Element Quantity: 908 LF		
Project Number:	2009-11 Priority#:	50		
Repair Year:	2007-09 Priority#:	28		
CPMS Ad Date:	Bridge \$'s:	\$190,000		
	Repair Total\$'s:	\$275,000		



No Photo Available

Repair Description:

Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.

COMMENTS

The concrete balluster bridge rails are deteriorated with exposed reinforcing steel.

The costs and details for the concrete bridge rail replacement should be similar to those used on bridge 153/20 (16315) in 2002.

Bridge Number: 153 / 17	Structure ID 0002450E	Bridge Name: METHOW R	Milepost: 18.91	Region: North Central
Year Built / YR Widened: 1939	Bridge Type: CTB	Bridge Length: 302 ft	Bridge Width (curb-curb): 24.0 ft	Sufficiency Rating: 49.87
Average Daily Traffic: 865	Truck% 12%	Detour (miles) 63	Num of Lanes: 2	
Date Inspected: 9/27/2006	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 5	Scour: 5	BMS Element Num: 331		
BMS Element Descr: Concrete Bridge Rail		BMS Element Quantity: 604 LF		
Project Number:	2009-11 Priority#:	51		
Repair Year:	2007-09 Priority#:	29		
CPMS Ad Date:	Bridge \$'s:	\$125,000		
	Repair Total\$'s:	\$185,000		
				
<p>Repair Description:</p> <p>Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.</p>				
<p>COMMENTS</p> <p>The concrete balluster bridge rails are deteriorated with exposed reinforcing steel.</p> <p>The costs and details for the concrete bridge rail replacement should be similar to those used on bridge 153/20 (16315) in 2002.</p>				

Bridge Number: 395 / 40	Structure ID 0004195A	Bridge Name: PIONEER MEM. BR	Milepost: 18.59	Region: South Central
Year Built / YR Widened: 1954 / 1986	Bridge Type: STrus SG PCS	Bridge Length: 2,521 ft	Bridge Width (curb-curb): 63.3 ft	Sufficiency Rating: 59.21 FO
Average Daily Traffic: 42,446	Truck% 7%	Detour (miles) 10	Num of Lanes: 4	
Date Inspected: 10/26/2006	Structr Adequacy: 5	Superstr Code: 6	Safe Load: 5	
Substr Code: 6	Scour: 3			
BMS Element Num: 316	BMS Element Descr: Modular Expansion Joint			
BMS Element Quantity: 188				
Project Number:	2009-11 Priority#:	7		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$470,000		
	Repair Total\$'s:	\$940,000		



Repair Description:

Replace modular expansion joints @ 3 locations installed in 1986.

COMMENTS

The SC Region has noted recurring failure with the modular expansion joints on the Blue Bridge. The bolts holding the longitudinal bars to the support bars either shear off or become loose and back out due to wear, age, and obsolete design. Current design on similar joint requires almost twice as many support bars significantly reducing strain on the longitudinal bars. Repairs require the closure of all lanes, either north or south depending on the joint being repaired. The repairs require a UBIT to access the bottom of the joint. Current repair costs are between \$12-20,000 per repair. Since 1992 when the problem was first discovered 8 repairs have been required at the 4 joints.

Bridge Item cost based on \$2,500 / ft. Total project cost based on \$5,000 / ft.

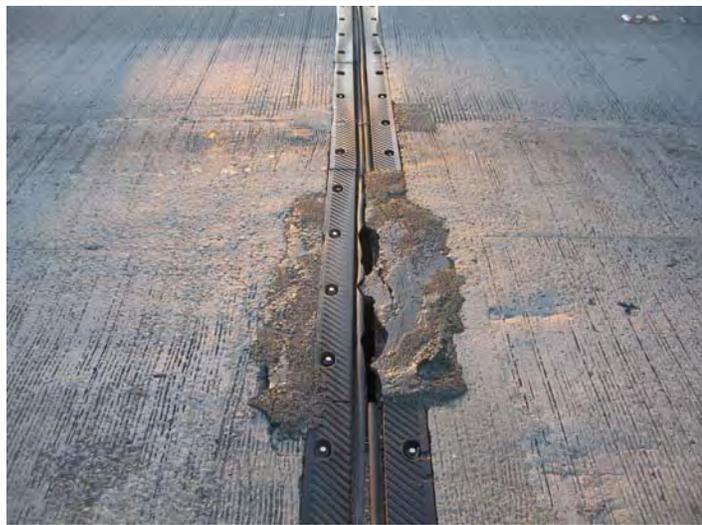
Bridge Number: 405 / 70E		Structure ID 0008382A		Bridge Name: SR 522 OC SAMMAMISH R		Milepost: 23.53		Region: Northwest	
Year Built / YR Widened: 1968		Bridge Type: CBox		Bridge Length: 1,352 ft		Bridge Width (curb-curb): 40.0 ft		Sufficiency Rating: 69.28 FO	
Average Daily Traffic: 67,000		Truck% 5%	Detour (miles) 2		Num of Lanes: 3				
Date Inspected: 9/28/2006		Structr Adequacy: 6		Safe Load: 5					
Superstr Code: 6		Scour: 5							
Substr Code: 7									
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down		BMS Element Quantity: 200					
Project Number:		2009-11 Priority#:		39		Repair Year:		2007-09 Priority#:	
CPMS Ad Date:		Bridge \$'s:		\$100,000		Repair Total\$'s:		\$300,000	
<p>Repair Description:</p> <p>Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.</p>									
<p align="center">COMMENTS</p> <p>These expansion joints were installed in 1985 with the existing concrete overlay. Many sections of the joints are missing or have been repaired by Region Maintenance crews.</p> <p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>									

Bridge Number: 405 / 70N-E		Structure ID 0008382C		Bridge Name: N-E RAMP SAMMAMISH R		Milepost: 23.53		Region: Northwest	
Year Built / YR Widened: 1968		Bridge Type: CBox		Bridge Length: 709 ft		Bridge Width (curb-curb): 23.0 ft		Sufficiency Rating: 85.23	
Average Daily Traffic: 15,791		Truck% 5%	Detour (miles) 2	Num of Lanes: 1					
Date Inspected: 4/18/2006		Structr Adequacy: 6		Superstr Code: 6		Safe Load: 5		Substr Code: 7	
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down							
BMS Element Quantity: 69									
Project Number:		2009-11 Priority#:		40					
Repair Year:		2007-09 Priority#:							
CPMS Ad Date:		Bridge \$'s:		\$34,500					
		Repair Total\$'s:		\$103,500					
Repair Description:									
Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 3 separate locations on the bridge.									
COMMENTS									
These expansion joints were installed in 1985 with the existing concrete overlay. Many sections of the joints are missing or have been repaired by Region Maintenance crews.									
Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.									

Bridge Number: 405 / 70N-W		Structure ID 0008382D		Bridge Name: N-W RAMP SAMMAMISH R		Milepost: 23.53		Region: Northwest		
Year Built / YR Widened: 1968		Bridge Type: CBox		Bridge Length: 1,469 ft		Bridge Width (curb-curb): 24.0 ft		Sufficiency Rating: 90.25 FO		
Average Daily Traffic: 6,569		Truck% 5%	Detour (miles) 2		Num of Lanes: 1					
Date Inspected: 9/28/2006		Structr Adequacy: 6		Superstr Code: 6		Safe Load: 5				
Substr Code: 7		Scour: 5		BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down				
BMS Element Quantity: 120		Project Number:		2009-11 Priority#: 41		Repair Year:				
CPMS Ad Date:		Bridge \$'s: \$60,000		2007-09 Priority#:		Repair Total\$'s: \$180,000				
			<p>No Photo Available</p>							
<p>Repair Description: Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.</p>										
<p>COMMENTS</p>										
<p>These expansion joints were installed in 1985 with the existing concrete overlay. Many sections of the joints are missing or have been repaired by Region Maintenance crews.</p> <p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>										

Bridge Number: 405 / 70S-E	Structure ID 0008382E	Bridge Name: S-E RAMP BR	Milepost: 23.53	Region: Northwest
Year Built / YR Widened: 1968	Bridge Type: CBox	Bridge Length: 433 ft	Bridge Width (curb-curb): 25.0 ft	Sufficiency Rating: 95.16 FO
Average Daily Traffic: 8,568	Truck% 5%	Detour (miles) 2	Num of Lanes: 1	
Date Inspected: 10/19/2005	Superstr Code: 6	Substr Code: 7	Structr Adequacy: 6 Safe Load: 5 Scour: N	
BMS Element Num: 415	BMS Element Descr: Exp Jnt - Rubber Bolt down			
BMS Element Quantity: 50				
Project Number: Repair Year: CPMS Ad Date:	2009-11 Priority#: 2007-09 Priority#: Bridge \$'s: Repair Total\$'s:	42 \$25,000 \$75,000		
				<p style="font-size: 2em; font-weight: bold; text-align: center;">No Photo Available</p>
<p>Repair Description: Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 2 separate locations on the bridge.</p>				
COMMENTS				
<p>These expansion joints were installed in 1985 with the existing concrete overlay. Many sections of the joints are missing or have been repaired by Region Maintenance crews.</p> <p>Bridge Item cost based on \$500 / ft. Total project cost based on \$1,500 / ft.</p>				

Bridge Number: 405 / 70W	Structure ID 0008382B	Bridge Name: SR 522 OC SAMMAMISH R	Milepost: 23.53	Region: Northwest
Year Built / YR Widened: 1968	Bridge Type: CBox	Bridge Length: 1,410 ft	Bridge Width (curb-curb): 34.5 ft	Sufficiency Rating: 56.99 FO
Average Daily Traffic: 67,000	Truck% 5%	Detour (miles) 2	Num of Lanes: 3	
Date Inspected: 9/27/2006	Superstr Code: 7	Substr Code: 7	Structr Adequacy: 5	Safe Load: 5
BMS Element Num: 415		BMS Element Descr: Exp Jnt - Rubber Bolt down		
BMS Element Quantity: 192				
Project Number:	2009-11 Priority#:	43		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$100,000		
	Repair Total\$'s:	\$288,000		



Repair Description:

Replace all rubber bolt down expansion joints. There are rubber bolt down expansion joints at 5 separate locations on the bridge.

COMMENTS

These expansion joints were installed in 1985 with the existing concrete overlay. Many sections of the joints are missing or have been repaired by Region Maintenance crews.

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

Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number: 520 / 8		Structure ID 0006486A		Bridge Name: ALBERT D. ROSELLINI BR		Milepost: 1.63		Region: Northwest			
Year Built / YR Widened: 1963		Bridge Type: CFP STRus SG PCG		Bridge Length: 12,404 ft		Bridge Width (curb-curb): 52.0 ft		Sufficiency Rating: 44.78			
Average Daily Traffic: Truck% 102,100		Detour (miles)		Num of Lanes: 4							
Date Inspected:		Structr Adequacy:		Superstr Code:						Safe Load:	
Substr Code:		Scour:		BMS Element Num: 148						BMS Element Descr: Floating Bridge Anchor Cable	
BMS Element Quantity: 15		Project Number:		2007-09 Priority#:						Repair Year:	
CPMS Ad Date:		2009-11 Priority#:		3		Bridge \$'s: \$4,050,000		Repair Total\$'s: \$4,350,000			
											
<p>Repair Description: Replace 15 Floating Bridge Anchor Cables.</p>											
<p>COMMENTS</p>											
<p>Recommendation from consultant hired by the Bridge Preservation Office recommends the following anchor cable be replaced: An, Bn, Bs, Cn, Dn, Fn, Fs, KLs, LLn, PLs, Ps, Tn, Vs, Yn, Zn. This represents 15 anchor cables (out of a total of 58).</p> <p>Bridge Item cost uses \$250,000 for install of each cable and \$20,000 cable cost...\$270k x 15 = \$4.05m Use \$300,000 to develop PS&E and construction engineering and contingencies.</p>											



Bridge Number: 520 / 8	Structure ID 0006486A	Bridge Name: ALBERT D. ROSELLINI BR	Milepost: 1.63	Region: Northwest
Year Built / YR Widened: 1963	Bridge Type: CFP STrus SG PCG	Bridge Length: 12,404 ft	Bridge Width (curb-curb): 52.0 ft	Sufficiency Rating: 44.78
Average Daily Traffic: 102,100	Truck%	Detour (miles)	Num of Lanes: 4	
Date Inspected:	Structr Adequacy:	Superstr Code:	Safe Load:	
Substr Code:	Scour:			
BMS Element Num: 148	BMS Element Descr: Floating Bridge Anchor Cable			
BMS Element Quantity: 5				
Project Number:	2009-11 Priority#: 11			
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s: \$1,350,000			
	Repair Total\$'s: \$1,600,000			



Repair Description:

Replace 5 Floating Bridge Anchor Cables.

COMMENTS

There are 5 (out of a total of 58) anchor cables that are currently 25 years old and will need to be replaced before they reach 30 years old. They are QLs , Is , Hs , Ds , Gn.

Bridge Item cost uses \$250,000 for install of each cable and \$20,000 cable cost...\$270k x 5 = \$1.35m
Use \$250,000 to develop PS&E and construction engineering and contingencies.