

Special Bridge Repairs - 2009-11 Biennium - Northwest Region

(Sorted by Priority#)

Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$'s:	Total\$'s:
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
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
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

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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
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
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
090/025N	HOMER M. HADLEY	Floating Bridge - Anchor Cable	Replace 9 anchor cables	NW	52	\$2,430,000	\$2,700,000
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
020/204	DECEPTION PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	61		
090/040N	EAST CHANNEL-LK WASH	Modular Expansion Joint	Replace Glands in Modular expansion joints in westbound lanes.	NW	62	\$75,000	\$150,000
018/017S	GREEN R (NEELEY BRIDGE)	Steel Stringer	Address cracking in 15 steel stringers.	NW	69		
020/207	CANOE PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	71	\$200,000	\$400,000
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
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

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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
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
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
49 Repairs				Sum of Bridge \$'s =		\$30,276,750	\$42,920,500

Special Bridge Repairs - 2009-11 Biennium - Northwest Region

(Sorted by Bridge#)

Bridge Number:	Bridge Name:	BMS Description:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$'s:	Total\$'s:
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
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
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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
005/553	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
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
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020/207	CANOE PASS	Steel Deck Truss	Replace corroded secondary braces.	NW	71	\$200,000	\$400,000
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520/008	ALBERT D. ROSELLINI BR	Floating Bridge Anchor Cable	Replace 5 Floating Bridge Anchor Cables.	NW	11	\$1,350,000	\$1,600,000
520/008	ALBERT D. ROSELLINI BR	Floating Bridge Anchor Cable	Replace 15 Floating Bridge Anchor Cables.	NW	3	\$4,050,000	\$4,350,000

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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
49 Repairs				Sum of Bridge \$'s =		\$30,276,750	\$42,920,500

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 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:	
BMS Element Num: 148		BMS Element Descr: Floating Bridge Anchor Cable		BMS Element Quantity: 15									
Project Number:		2007-09 Priority#:		Repair Year:						2009-11 Priority#:		3	
CPMS Ad Date:		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: 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	Scour: 8			
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
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: 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:

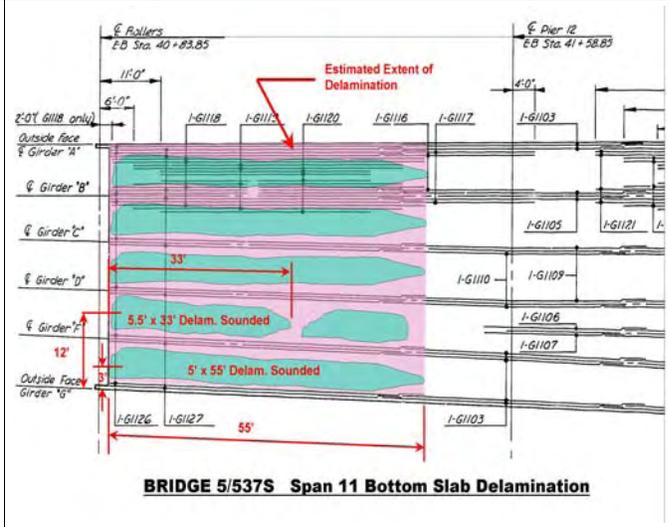
Replace 5 Floating Bridge Anchor Cables.

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.

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	Structr Adequacy: 4	Superstr Code: 4	Safe Load: 5	
Substr Code: 7	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	Bridge \$'s: \$246,000	
CPMS Ad Date:	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 / 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#:			
CPMS Ad Date:	Bridge \$'s:	\$120,000		
	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	
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#:		Bridge \$'s: \$63,000	
CPMS Ad Date:		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 / 538E	Structure ID 0007741C	Bridge Name: NB VIADUCT	STA 2075	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			
No Photo Available		No Photo Available			
Repair Description: Replace the steel sliding plate expansion joints at 4 locations.					
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 / 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:	2009-11 Priority#:	20		
Repair Year:	2007-09 Priority#:			
CPMS Ad Date:	Bridge \$'s:	\$58,000		
	Repair Total\$'s:	\$145,000		
				<p style="font-size: 2em; font-weight: bold; text-align: center;">No Photo Available</p>
<p>Repair Description: Replace the steel sliding plate expansion joints at 1 locations.</p>				
COMMENTS				
<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		Structr Adequacy: 5		Superstr Code: 7		Safe Load: 5		Substr Code: 7	
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					
									
<p>Repair Description: Replace the steel sliding plate expansion joints.</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 / 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	
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>							
COMMENTS										
<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	Superstr Code: 7	Substr Code: 6	Structr Adequacy: 5	Safe Load: 5
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: 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	Scour: N	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#:			
CPMS Ad Date:	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 Preservation Program (P2)

Bridge Repair Info Form

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		Scour: N		BMS Element Num: 161		BMS Element Descr: Steel Hanger Assembly			
BMS Element Quantity: 58		Project Number: 2007-09 Priority#:		Repair Year: 2009-11 Priority#: 34		Bridge \$'s: \$250,000			
CPMS Ad Date:		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.									

