

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects

2009-11 Bien Priority Array

(Sorted by Priority Number)



09-11 #	Bridge Number	Bridge Name	Mile post	Region	Future Work Description	Bridge Item\$'s
	090/121	EAST EASTON UC	71.56	SC	Bridge Deck Overlay - HMA	\$275,556
1	090/132S	YAKIMA R	78.81	SC	Bridge Deck Overlay - MC	\$253,380
2	082/020N	MILITARY RD OC	11.62	SC	Bridge Deck Overlay - MC	\$194,256
13	128/010	SNAKE R - RED WOLF BR	0.22	SC	Bridge Deck Overlay - MC	\$1,541,696
14	090/152S	WEST SIDE CANAL	100.55	SC	MCO Mill hydro	\$80,910
15	090/150S	TANEUM CR	97.27	SC	MCO Mill hydro	\$139,412
16	090/156S	DRY CR	104.71	SC	MCO Mill hydro	\$301,903
17	090/152N	WEST SIDE CANAL	100.55	SC	MCO Mill hydro	\$74,931
18	090/150N	TANEUM CR	97.27	SC	MCO Mill hydro	\$139,412
19	090/156N	DRY CR	104.71	SC	MCO Mill hydro	\$301,903
21	012/329	COWICHE CR	199.21	SC	MCO Hydro Orig deck	\$203,470
22	090/126S	BIG CR	75.36	SC	RSLMC or Poly deck prep	\$174,646
25	082/213S	CHANDLER CANAL BRIDGE	81.86	SC	MCO orig deck	\$134,548
26	090/162N	WILSON CR	109.13	SC	MCO Mill deck prep	\$197,935
27	082/217	I-82 OC, WINE COUNTRY RD	82.34	SC	MCO hydro patches	\$392,995
30	090/134N	CLE ELUM R	80.79	SC	MCO Mill & hydro	\$249,342
31	082/010S	SR 821 OC THRALL RD	3.22	SC	MCO Mill hydro bad const	\$429,329
35	261/120	TUCANNON R	10.27	SC	Bridge Deck Overlay - MC	\$145,355
36	090/118N	KACHESS R	69.49	SC	RSLMC Mill hydro 2.6%	\$287,494

Total Number of Bridges = 19

Total of Bridge Item\$ = \$5,518,471



P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects



2009-11 Bien Priority Array

(Sorted by State Route)




09-11 #	Bridge Number	Bridge Name	Mile post	Region	Future Work Description	Bridge Item\$'s
21	012/329	COWICHE CR	199.21	SC	MCO Hydro Orig deck	\$203,470
31	082/010S	SR 821 OC THRALL RD	3.22	SC	MCO Mill hydro bad const	\$429,329
2	082/020N	MILITARY RD OC	11.62	SC	Bridge Deck Overlay - MC	\$194,256
25	082/213S	CHANDLER CANAL BRIDGE	81.86	SC	MCO orig deck	\$134,548
27	082/217	I-82 OC, WINE COUNTRY RD	82.34	SC	MCO hydro patches	\$392,995
36	090/118N	KACHESS R	69.49	SC	RSLMC Mill hydro 2.6%	\$287,494
	090/121	EAST EASTON UC	71.56	SC	Bridge Deck Overlay - HMA	\$275,556
22	090/126S	BIG CR	75.36	SC	RSLMC or Poly deck prep	\$174,646
1	090/132S	YAKIMA R	78.81	SC	Bridge Deck Overlay - MC	\$253,380
30	090/134N	CLE ELUM R	80.79	SC	MCO Mill & hydro	\$249,342
18	090/150N	TANEUM CR	97.27	SC	MCO Mill hydro	\$139,412
15	090/150S	TANEUM CR	97.27	SC	MCO Mill hydro	\$139,412
17	090/152N	WEST SIDE CANAL	100.55	SC	MCO Mill hydro	\$74,931
14	090/152S	WEST SIDE CANAL	100.55	SC	MCO Mill hydro	\$80,910
19	090/156N	DRY CR	104.71	SC	MCO Mill hydro	\$301,903
16	090/156S	DRY CR	104.71	SC	MCO Mill hydro	\$301,903
26	090/162N	WILSON CR	109.13	SC	MCO Mill deck prep	\$197,935
13	128/010	SNAKE R - RED WOLF BR	0.22	SC	Bridge Deck Overlay - MC	\$1,541,696
35	261/120	TUCANNON R	10.27	SC	Bridge Deck Overlay - MC	\$145,355

Total Number of Bridges = 19



Total of Bridge Item\$ = \$5,518,471






BRIDGE NUMBER: 12 / 329	BRIDGE NAME: COWICHE CR	REGION: South Central	MILEPOST: 199.21						
YEAR BUILT / YR WIDENED: 1932	CONTRACT NO.(S): 01603 , 08846 , 16318	SUFFICIENCY RATING: 81.71							
BRIDGE TYPE: CTB	EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:								
DECK TYPE: Conc cast-in-place	ACP w/membrane								
DECK THICKNESS: (Main Span) 8.0 in.	Year Applied - 1972								
BRIDGE WIDTH (curb-curb): 84.0 ft.	Overlay Thickness - 3.0 inches								
BRIDGE LENGTH: 53 ft.									
AVERAGE DAILY TRAFFIC (ADT): 18,000									
NUMBER OF LANES: 4									
VERTICAL CLEARANCE									
VC Type: NA									
BRIDGE RAIL									
BRIDGE RAIL TYPE: WSDOT CODE - 70.6									
Conc Base - Type 1B w/Thrie Beam									
RAIL MEETS CURRENT STANDARDS?: YES									
SIDEWALK / CURB WIDTH: 0.1 Lt 0.1 Rt									
9	EXPANSION JOINTS								
<table style="width:100%; border: none;"> <tr> <td style="width:50%; padding: 5px;">DELAMINATION RESULTS: NA</td> <td style="width:50%; padding: 5px;">DATE</td> </tr> <tr> <td style="padding: 5px;">CHLORIDE RESULTS: 20 % are > 2 lbs./CY</td> <td style="padding: 5px;">7 / 85</td> </tr> <tr> <td style="padding: 5px;">REBAR RESULTS: NA</td> <td style="padding: 5px;"></td> </tr> </table>				DELAMINATION RESULTS: NA	DATE	CHLORIDE RESULTS: 20 % are > 2 lbs./CY	7 / 85	REBAR RESULTS: NA	
DELAMINATION RESULTS: NA	DATE								
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REBAR RESULTS: NA									
BRIDGE DECK SURVEY									
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CHLORIDE RESULTS: 20 % are > 2 lbs./CY	7 / 85								
REBAR RESULTS: NA									
<table style="width:100%; border: none;"> <tr> <td style="width:70%; padding: 5px;">REVIEWED BY: <i>Bruce Thill</i></td> <td style="width:30%; padding: 5px;">DATE: 12/12/2007</td> </tr> </table>				REVIEWED BY: <i>Bruce Thill</i>	DATE: 12/12/2007				
REVIEWED BY: <i>Bruce Thill</i>	DATE: 12/12/2007								
DECK PROTECTIVE SYSTEM RECOMMENDATIONS									
PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 21									
TYPE RECOMMENDED: MC Overlay / Hydro									
COMMENTS:									
The original structure requires rehabilitation. We recommend a hydromill the original deck and place a modified concrete overlay.									
Region may consider an additional final HMA overlay to match the widen portion. The total ACP thickness should not exceed 3 inches.									



BRIDGE NUMBER: 82 / 10S	BRIDGE NAME: SR 821 OC THRALL RD	REGION: South Central	MILEPOST: 3.22
YEAR BUILT / YR WIDENED: 1970	CONTRACT NO.(S): 08672 , 12857 , 16531	SUFFICIENCY RATING: 91.34 SD	
BRIDGE TYPE: PCG		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: Original Concrete	
DECK TYPE: Conc cast-in-place			
DECK THICKNESS: (Main Span) 9.5 in.			
BRIDGE WIDTH (curb-curb): 53.2 ft.	BRIDGE LENGTH: 357 ft.		
AVERAGE DAILY TRAFFIC (ADT): 6,500	NUMBER OF LANES: 3		
VERTICAL CLEARANCE			
VC Type: SR 821 OC NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES	SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt		
402 EXPANSION JOINTS			
Compression seals at the ends of the bridge may need to be replaced.		DECK PROTECTIVE SYSTEM RECOMMENDATIONS	
BRIDGE DECK SURVEY DELAMINATION RESULTS: DATE 198 sq ft 1.0% of deck 11 / 92 CHLORIDE RESULTS: 39 % are > 2 lbs./CY 4 / 83 REBAR RESULTS: NA		PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 31	
		TYPE RECOMMENDED: MC Overlay / Mill Hydro	
		COMMENTS: A 3 inch reinforced concrete overlay was added to the existing 6.5 inch concrete deck during the original construction in 1970 due to problems with the original deck. The polymer overlay was added in 1985 as an experiment and removed by contract in 2003.	
		We recommend placing a 1.5" modified concrete overlay by rotomilling 1" and hydromilling 0.5".	
		REVIEWED BY: Bruce Thill	
DATE: 12/12/2007			




BRIDGE NUMBER: 82 / 20N	BRIDGE NAME: MILITARY RD OC	REGION: South Central	MILEPOST: 11.62
YEAR BUILT / YR WIDENED: 1971	CONTRACT NO.(S): 08688 , 13438 , 15407	SUFFICIENCY RATING: 92.05 SD	
BRIDGE TYPE: PCG		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:	
DECK TYPE: Conc cast-in-place		LMC Overlay	
DECK THICKNESS: (Main Span) 7.0 in.		Year Applied - 1989	
BRIDGE WIDTH (curb-curb): 38.0 ft.		Overlay Thickness - 1.5 inches	
BRIDGE LENGTH: 142 ft.			
AVERAGE DAILY TRAFFIC (ADT): 6,500			
NUMBER OF LANES: 2			
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt			
402		EXPANSION JOINTS	
Compression seals may need to be replaced.			
BRIDGE DECK SURVEY			
DELAMINATION RESULTS: 653 sq ft		DATE: 6 / 98	
CHLORIDE RESULTS: NA		12.1% of deck	
REBAR RESULTS: NA			
		REVIEWED BY: Bruce Thill	
		DATE: 12/12/2007	
		PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 02 TYPE RECOMMENDED: MC Overlay / Hydro	
		COMMENTS: Bridge Inspection Reports indicate the deck is deteriorating with many areas that have moderate to severe cracking. Previous repair projects in 1979 and 1988 repaired over 10% of the deck. Several of the repairs extend full depth. 03/2005 We recommend rotomilling 1" of the existing LMC, hydromilling 0.5", and placing a new 1.5" modified conc overlay.	



BRIDGE NUMBER: 82 / 213S		BRIDGE NAME: CHANDLER CANAL BRIDGE		REGION: South Central		MILEPOST: 81.86	
YEAR BUILT / YR WIDENED: 1977		CONTRACT NO.(S): 10534			SUFFICIENCY RATING: 99.39		
BRIDGE TYPE: PCG				EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:			
DECK TYPE: Conc cast-in-place				original concrete			
DECK THICKNESS: (Main Span) 0.0 in.							
BRIDGE WIDTH (curb-curb): 38.0 ft.		BRIDGE LENGTH: 113 ft.					
AVERAGE DAILY TRAFFIC (ADT): 6,500		NUMBER OF LANES: 2					
VERTICAL CLEARANCE							
VC Type: NA							
BRIDGE RAIL							
BRIDGE RAIL TYPE: WSDOT CODE - 60 New Jersey Barrier							
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt					
403 EXPANSION JOINTS				DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
				PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 25			
				TYPE RECOMMENDED: MC Overlay / Hydro			
				COMMENTS: Bridge Inspection reports indicate the deck is more than 5% deteriorated. We recommend 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			
BRIDGE DECK SURVEY							
DELAMINATION RESULTS: 0 sq ft		0.0% of deck		DATE 11 / 85			
CHLORIDE RESULTS: 0 % are > 2 lbs./CY				11 / 85			
REBAR RESULTS: 4 % are < or = 1 inch				11 / 85		REVIEWED BY: <i>Bruce Thill</i>	
						DATE: 12/12/2007	




BRIDGE NUMBER: 82 / 217	BRIDGE NAME: I-82 OC, WINE COUNTRY RD	REGION: South Central	MILEPOST: 82.34
YEAR BUILT / YR WIDENED: 1978	CONTRACT NO.(S): 10534	SUFFICIENCY RATING: 97.00 SD	
BRIDGE TYPE: PCG		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete	
DECK TYPE: Conc cast-in-place			
DECK THICKNESS: (Main Span) 7.5 in.			
BRIDGE WIDTH (curb-curb): 47.1 ft.	BRIDGE LENGTH: 368 ft.		
AVERAGE DAILY TRAFFIC (ADT): 2,500	NUMBER OF LANES: 2		
VERTICAL CLEARANCE			
VC Type: Undercrossing NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 60 New Jersey Barrier			
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt	
404	EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS
			PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 27
			TYPE RECOMMENDED: MC Overlay / Hydro
			COMMENTS: Bridge Inspection reports indicate the deck is more than 5% deteriorated. We recommend 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.
BRIDGE DECK SURVEY			
DELAMINATION RESULTS:		DATE	
42 sq ft 0.2% of deck		4 / 86	
CHLORIDE RESULTS:			
9 % are > 2 lbs./CY		4 / 86	
REBAR RESULTS:			
1 % are < or = 1 inch		4 / 86	
REVIEWED BY: Bruce Thill			DATE: 12/12/2007




BRIDGE NUMBER: 90 / 118N		BRIDGE NAME: KACHESS R		REGION: South Central		MILEPOST: 69.49	
YEAR BUILT / YR WIDENED: 1958		CONTRACT NO.(S): 05702 , 12857			SUFFICIENCY RATING: 92.71		
BRIDGE TYPE: CVS				EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:			
DECK TYPE: Conc cast-in-place				LMC Overlay			
DECK THICKNESS: 23.0 in. (Main Span)				Year Applied - 1985			
				Overlay Thickness - 1.5 inches			
BRIDGE WIDTH (curb-to-curb): 38.0 ft.		BRIDGE LENGTH: 150 ft.					
AVERAGE DAILY TRAFFIC (ADT): 10,012		NUMBER OF LANES: 2					
VERTICAL CLEARANCE							
VC Type: NA							
BRIDGE RAIL							
BRIDGE RAIL TYPE: WSDOT CODE - 60 New Jersey Barrier							
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt					
402 EXPANSION JOINTS				DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
				PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 36			
				TYPE RECOMMENDED: MC Overlay / Hydro			
				COMMENTS:			
				Bridge Inspection reports indicate the deck overlay is deteriorated.			
				We recommend removing the LMC overlay by 1" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay. Rapid Set LMC may be considered to minimize traffic closure.			
BRIDGE DECK SURVEY							
DELAMINATION RESULTS:		DATE					
62 sq ft		1.1% of deck		5 / 92			
CHLORIDE RESULTS:							
30 % are > 2 lbs./CY				5 / 83			
REBAR RESULTS:							
NA				REVIEWED BY: <i>Bruce Thill</i>		DATE: 12/12/2007	




BRIDGE NUMBER: 90 / 126S	BRIDGE NAME: BIG CR	REGION: South Central	MILEPOST: 75.36
YEAR BUILT / YR WIDENED: 1973	CONTRACT NO.(S): 09428	SUFFICIENCY RATING: 93.93 SD	
BRIDGE TYPE: CS		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete	
DECK TYPE: Conc cast-in-place			
DECK THICKNESS: in. <small>(Main Span)</small>			
BRIDGE WIDTH (curb-curb): 38.0 ft.	BRIDGE LENGTH: 55 ft.		
AVERAGE DAILY TRAFFIC (ADT): 10,720	NUMBER OF LANES: 2		
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 63 New Jersey - Type R			
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt	
9 EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS	
		PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 22	
		TYPE RECOMMENDED: Rapid Set LMC Overlay	
		COMMENTS: Bridge Inspection reports indicate the deck is over 5% deteriorated. We recommend 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.	
BRIDGE DECK SURVEY			
DELAMINATION RESULTS: 8 sq ft 0.4% of deck		DATE: 8 / 94	
CHLORIDE RESULTS: 20 % are > 2 lbs./CY		DATE: 5 / 86	
REBAR RESULTS: 0 % are < or = 1 inch		DATE: 5 / 86	
		REVIEWED BY: <i>Bruce Thill</i>	
		DATE: 12/12/2007	




BRIDGE NUMBER: 90 / 132S	BRIDGE NAME: YAKIMA R	REGION: South Central	MILEPOST: 78.81
YEAR BUILT / YR WIDENED: 1917	CONTRACT NO.(S): 00267 , 09803	SUFFICIENCY RATING: 93.86 SD	
BRIDGE TYPE: CEFA		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete	
DECK TYPE: Conc cast-in-place			
DECK THICKNESS: 10.0 in. <small>(Main Span)</small>			
BRIDGE WIDTH (curb-curb): 41.0 ft.	BRIDGE LENGTH: 206 ft.		
AVERAGE DAILY TRAFFIC (ADT): 11,470	NUMBER OF LANES: 2		
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 60 New Jersey Barrier			
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt	
402	EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS
			PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 01
			TYPE RECOMMENDED: MC Overlay / Hydro
			COMMENTS:
			There are numerous potholes and exposed rebar throughout the driving lane.
			We recommend 0.5" hydromill scarification, repair delams, then overlay with a 1.5" modified conc overlay.
			The rutts in the right lane were filled with Ure-Fast previous to June 05.
BRIDGE DECK SURVEY			
DELAMINATION RESULTS:		DATE	
498 sq ft 5.9% of deck		12 / 04	
CHLORIDE RESULTS:			
64 % are > 2 lbs./CY		4 / 89	
REBAR RESULTS:			
0 % are < or = 1 inch		6 / 85	
REVIEWED BY: Bruce Thill			DATE: 12/12/2007




BRIDGE NUMBER: 90 / 134N	BRIDGE NAME: CLE ELUM R	REGION: South Central	MILEPOST: 80.79
YEAR BUILT / YR WIDENED: 1949	CONTRACT NO.(S): 03527 , 12459	SUFFICIENCY RATING: 73.68 SD	
BRIDGE TYPE: STrus CTB		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:	
DECK TYPE: Conc cast-in-place		Low Slump Mod Conc	
DECK THICKNESS: (Main Span) 6.5 in.		Year Applied - 1983	
		Overlay Thickness - 2.0 inches	
BRIDGE WIDTH (curb-curb): 31.0 ft.	BRIDGE LENGTH: 297 ft.		
AVERAGE DAILY TRAFFIC (ADT): 10,743	NUMBER OF LANES: 2		
VERTICAL CLEARANCE			
VC Type: Steel Truss NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 60 New Jersey Barrier			
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt	
403 413	EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS
Coordinate with your Region's Maintenance Office to determine if any repairs are required.		PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 30	
		TYPE RECOMMENDED: MC Overlay / Mill Hydro	
		COMMENTS:	
		Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated.	
		We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.	
BRIDGE DECK SURVEY			
DELAMINATION RESULTS:		DATE	
510 sq ft 5.5% of deck		7 / 94	
CHLORIDE RESULTS:			
100 % are > 2 lbs./CY		10 / 81	
REBAR RESULTS:			
NA			
REVIEWED BY: Bruce Thill		DATE: 12/12/2007	




BRIDGE NUMBER: 90 / 150N	BRIDGE NAME: TANEUM CR	REGION: South Central	MILEPOST: 97.27
YEAR BUILT / YR WIDENED: 1965	CONTRACT NO.(S): 07724 , 14902	SUFFICIENCY RATING: 97.21	
BRIDGE TYPE: PCG		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:	
DECK TYPE: Conc cast-in-place		Low Slump Mod Conc	
DECK THICKNESS: 5.8 in. <small>(Main Span)</small>		Year Applied - 1983	
BRIDGE WIDTH (curb-curb): 36.5 ft.		Overlay Thickness - 2.0 inches	
BRIDGE LENGTH: 108 ft.			
AVERAGE DAILY TRAFFIC (ADT): 8,378			
NUMBER OF LANES: 2			
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES			
SIDEWALK / CURB WIDTH: 0.8 Lt 0.8 Rt			
402 404	EXPANSION JOINTS		
BRIDGE DECK SURVEY			
DELAMINATION RESULTS: 744 sq ft 18.9% of deck DATE: 8 / 94			
CHLORIDE RESULTS: 90 % are > 2 lbs./CY DATE: 10 / 81			
REBAR RESULTS: NA			
DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 18			
TYPE RECOMMENDED: MC Overlay / Hydro			
COMMENTS: Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated. We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			
REVIEWED BY: Bruce Thill			DATE: 12/12/2007




BRIDGE NUMBER: 90 / 150S	BRIDGE NAME: TANEUM CR	REGION: South Central	MILEPOST: 97.27																												
YEAR BUILT / YR WIDENED: 1965	CONTRACT NO.(S): 07724 , 14902	SUFFICIENCY RATING: 91.15 SD																													
BRIDGE TYPE: PCG		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:																													
DECK TYPE: Conc cast-in-place		Low Slump Mod Conc																													
DECK THICKNESS: 5.8 in. <small>(Main Span)</small>		Year Applied - 1983																													
BRIDGE WIDTH (curb-curb): 36.5 ft.		Overlay Thickness - 2.0 inches																													
BRIDGE LENGTH: 108 ft.																															
AVERAGE DAILY TRAFFIC (ADT): 8,378																															
NUMBER OF LANES: 2																															
VERTICAL CLEARANCE																															
VC Type: NA																															
BRIDGE RAIL																															
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R																															
RAIL MEETS CURRENT STANDARDS?: YES																															
SIDEWALK / CURB WIDTH: 0.8 Lt 0.8 Rt																															
9	EXPANSION JOINTS																														
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BRIDGE DECK SURVEY																															
DELAMINATION RESULTS:	DATE																														
697 sq ft	17.7% of deck	7 / 94																													
CHLORIDE RESULTS:																															
90 % are > 2 lbs./CY																															
REBAR RESULTS:																															
NA																															
DECK PROTECTIVE SYSTEM RECOMMENDATIONS																															
PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 15																															
TYPE RECOMMENDED: MC Overlay / Hydro																															
COMMENTS:																															
Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated.																															
We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.																															
REVIEWED BY: Bruce Thill		DATE: 12/12/2007																													




BRIDGE NUMBER: 90 / 152N	BRIDGE NAME: WEST SIDE CANAL	REGION: South Central	MILEPOST: 100.55
YEAR BUILT / YR WIDENED: 1966	CONTRACT NO.(S): 07904 , 12459	SUFFICIENCY RATING: 92.15	
BRIDGE TYPE: CS	EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:		
DECK TYPE: Conc cast-in-place	Low Slump Mod Conc		
DECK THICKNESS: (Main Span) 12.0 in.	Year Applied - 1983		
BRIDGE WIDTH (curb-curb): 36.5 ft.	Overlay Thickness - 2.0 inches		
BRIDGE LENGTH: 31 ft.			
AVERAGE DAILY TRAFFIC (ADT): 8,378			
NUMBER OF LANES: 2			
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt			
402	EXPANSION JOINTS		
BRIDGE DECK SURVEY			
DELAMINATION RESULTS: 48 sq ft 4.2% of deck DATE: 7 / 94			
CHLORIDE RESULTS: 100 % are > 2 lbs./CY DATE: 10 / 81			
REBAR RESULTS: NA			
DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 17			
TYPE RECOMMENDED: MC Overlay / Hydro			
COMMENTS: Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated. We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			
REVIEWED BY: Bruce Thill			DATE: 12/12/2007



BRIDGE NUMBER: 90 / 152S	BRIDGE NAME: WEST SIDE CANAL	REGION: South Central	MILEPOST: 100.55
YEAR BUILT / YR WIDENED: 1966	CONTRACT NO.(S): 07904 , 12459	SUFFICIENCY RATING: 87.10 SD	
BRIDGE TYPE: CS	EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:		
DECK TYPE: Conc cast-in-place	Low Slump Mod Conc		
DECK THICKNESS: (Main Span) 12.0 in.	Year Applied - 1983		
BRIDGE WIDTH (curb-curb): 36.5 ft.	Overlay Thickness - 2.0 inches		
BRIDGE LENGTH: 38 ft.			
AVERAGE DAILY TRAFFIC (ADT): 8,378			
NUMBER OF LANES: 2			
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2			
Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES			
SIDEWALK / CURB WIDTH: 0.5 Lt 0.5 Rt			
402	EXPANSION JOINTS		
BRIDGE DECK SURVEY			
DELAMINATION RESULTS: 201 sq ft 14.5% of deck DATE: 7 / 94			
CHLORIDE RESULTS: 50 % are > 2 lbs./CY DATE: 10 / 81			
REBAR RESULTS: NA			
REVIEWED BY: <i>Bruce Thill</i>			DATE: 12/12/2007
DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 14			
TYPE RECOMMENDED: MC Overlay / Hydro			
COMMENTS: Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated. We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			




BRIDGE NUMBER: 90 / 156N	BRIDGE NAME: DRY CR	REGION: South Central	MILEPOST: 104.71
YEAR BUILT / YR WIDENED: 1967	CONTRACT NO.(S): 08036 , 13131 , 15126	SUFFICIENCY RATING: 80.92	
BRIDGE TYPE: CBox		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:	
DECK TYPE: Conc cast-in-place		LMC Overlay	
DECK THICKNESS: (Main Span) 6.5 in.		Year Applied - 1986	
BRIDGE WIDTH (curb-curb): 30.0 ft.		Overlay Thickness - 1.5 inches	
BRIDGE LENGTH: 390 ft.			
AVERAGE DAILY TRAFFIC (ADT): 9,228			
NUMBER OF LANES: 2			
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2			
Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 1.4 Lt 1.4 Rt	
405	EXPANSION JOINTS		
DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 19			
TYPE RECOMMENDED: MC Overlay / Hydro			
COMMENTS:			
Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated.			
We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			
BRIDGE DECK SURVEY			
DELAMINATION RESULTS:		DATE	
1,743 sq ft 14.9% of deck		6 / 98	
CHLORIDE RESULTS:			
88 % are > 2 lbs./CY		5 / 85	
REBAR RESULTS:			
NA			
REVIEWED BY: Bruce Thill			DATE: 12/12/2007




BRIDGE NUMBER: 90 / 156S		BRIDGE NAME: DRY CR		REGION: South Central		MILEPOST: 104.71	
YEAR BUILT / YR WIDENED: 1967		CONTRACT NO.(S): 08036 , 13131 , 15126			SUFFICIENCY RATING: 75.83 SD		
BRIDGE TYPE: CBox		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:					
DECK TYPE: Conc cast-in-place		LMC Overlay					
DECK THICKNESS: (Main Span) 6.5 in.		Year Applied - 1986					
		Overlay Thickness - 1.5 inches					
BRIDGE WIDTH (curb-curb): 30.0 ft.		BRIDGE LENGTH: 390 ft.					
AVERAGE DAILY TRAFFIC (ADT): 9,228		NUMBER OF LANES: 2					
VERTICAL CLEARANCE							
VC Type: NA							
BRIDGE RAIL							
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R							
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 1.5 Lt 1.5 Rt					
405		EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
Coordinate with your Region's Maintenance Office to determine if any repairs are required.				PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 16			
				TYPE RECOMMENDED: MC Overlay / Hydro			
				COMMENTS:			
				Bridge Inspection reports indicate the deck overlay is more than 10% deteriorated.			
				We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			
BRIDGE DECK SURVEY							
DELAMINATION RESULTS:		DATE					
2,504 sq ft 21.4% of deck		6 / 98					
CHLORIDE RESULTS:							
56 % are > 2 lbs./CY		5 / 85					
REBAR RESULTS:				REVIEWED BY:		DATE:	
NA				<i>Bruce Thill</i>		12/12/2007	




BRIDGE NUMBER: 90 / 162N		BRIDGE NAME: WILSON CR		REGION: South Central		MILEPOST: 109.13	
YEAR BUILT / YR WIDENED: 1967		CONTRACT NO.(S): 08200 , 12068 , 14249			SUFFICIENCY RATING: 92.01		
BRIDGE TYPE: CS		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE:					
DECK TYPE: Conc cast-in-place		Low Slump Mod Conc					
DECK THICKNESS: 19.0 in. (Main Span)		Year Applied - 1981					
		Overlay Thickness - 2.0 inches					
BRIDGE WIDTH (curb-curb): 50.0 ft.		BRIDGE LENGTH: 118 ft.					
AVERAGE DAILY TRAFFIC (ADT): 9,711		NUMBER OF LANES: 3					
VERTICAL CLEARANCE							
VC Type: NA							
BRIDGE RAIL							
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R							
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt					
9 EXPANSION JOINTS				DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
				PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 26			
				TYPE RECOMMENDED: MC Overlay / Plane			
				COMMENTS:			
				Bridge Inspection reports indicate the deck overlay is more than 8% deteriorated.			
				Cracks in the concrete overlay were filled with a MMA crack sealer in 1993 under contract 14249.			
				We recommend 1.0" rotomill, 0.5" scarification by hydromilling and placing 1.5" modified concrete overlay.			
BRIDGE DECK SURVEY							
DELAMINATION RESULTS:		DATE					
301 sq ft 5.1% of deck		7 / 94					
CHLORIDE RESULTS:							
50 % are > 2 lbs./CY		8 / 80					
REBAR RESULTS:							
NA				REVIEWED BY: <i>Bruce Thill</i>		DATE: 12/12/2007	



BRIDGE NUMBER: 128 / 10		BRIDGE NAME: SNAKE R - RED WOLF BR		REGION: South Central		MILEPOST: 0.22	
YEAR BUILT / YR WIDENED: 1979		CONTRACT NO.(S): 10850			SUFFICIENCY RATING: 89.87 SD		
BRIDGE TYPE: WSBox		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete					
DECK TYPE: Conc cast-in-place							
DECK THICKNESS: (Main Span) 7.7 in.							
BRIDGE WIDTH (curb-curb): 32.0 ft.		BRIDGE LENGTH: 1,450 ft.					
AVERAGE DAILY TRAFFIC (ADT): 3,825		NUMBER OF LANES: 2					
VERTICAL CLEARANCE							
VC Type: NA							
BRIDGE RAIL							
BRIDGE RAIL TYPE: WSDOT CODE - 61 New Jersey Barrier w/Type BP							
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 4.0 Rt					
416		EXPANSION JOINTS		DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
No Modifications Required at this time.				PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 13 TYPE RECOMMENDED: MC Overlay / Hydro			
				COMMENTS: Bridge Inspection reports indicate the deck is more than 5% deteriorated. We recommend placing 1.5" modified concrete overlay with 0.5" hydromill scarification.			
BRIDGE DECK SURVEY							
DELAMINATION RESULTS: 2,373 sq ft		5.1% of deck		DATE 6 / 05			
CHLORIDE RESULTS: NA							
REBAR RESULTS: NA		REVIEWED BY: <i>Bruce Thill</i>				DATE: 12/12/2007	



BRIDGE NUMBER: 261 / 120	BRIDGE NAME: TUCANNON R	REGION: South Central	MILEPOST: 10.27
YEAR BUILT / YR WIDENED: 1967	CONTRACT NO.(S):	SUFFICIENCY RATING: 88.13 SD	
BRIDGE TYPE: PCG	EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete		
DECK TYPE: Conc cast-in-place			
DECK THICKNESS: (Main Span) 5.8 in.			
BRIDGE WIDTH (curb-curb): 25.8 ft.	BRIDGE LENGTH: 211 ft.		
AVERAGE DAILY TRAFFIC (ADT): 603	NUMBER OF LANES: 2		
VERTICAL CLEARANCE			
VC Type: NA			
BRIDGE RAIL			
BRIDGE RAIL TYPE: WSDOT CODE - 73.2 Conc Base - Type R			
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 1.5 Lt 1.5 Rt	
404	EXPANSION JOINTS		
Modifications are required to accomodate the new overlay, please coordinate with the Bridge Office.			
BRIDGE DECK SURVEY			
DELAMINATION RESULTS:		DATE	
33 sq ft 0.6% of deck		4 / 92	
CHLORIDE RESULTS:			
0 % are > 2 lbs./CY		10 / 86	
REBAR RESULTS:			
63 % are < or = 1 inch		10 / 86	
		REVIEWED BY: <i>Bruce Thill</i>	
		DATE: 12/12/2007	
		PROTECTIVE OVERLAY RECOMMENDED?: YES 09-11 P2 Priority #: 35 TYPE RECOMMENDED: MC Overlay / Hydro COMMENTS: Bridge Inspection reports indicate the deck is more than 18% deteriorated with exposed rebar through out. Many of the small delams are over the girder stirrups. A new 1.5" modified concrete overlay is required using a 0.5" hydromill scarification.	