P2 Bridge Preservation - Replacement/Rehab Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
5	90/322N	SR 261 OC	221.95	Eastern	169	Rehabilitate Bridge
6	90/322S	SR 261 OC	221.95	Eastern	169	Rehabilitate Bridge
18	20/924	DAVIS CR	423.75	Eastern	77	Replace Bridge
20	261/320	DRY RUN	57.72	Eastern	32	Replace Bridge

Total Number of Bridges = 4

P2 Bridge Preservation - Replacement/Rehab Projects

2013-15 Bien Priority Array

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
18	20/924	DAVIS CR	423.75	Eastern	77	Replace Bridge
5	90/322N	SR 261 OC	221.95	Eastern	169	Rehabilitate Bridge
6	90/322S	SR 261 OC	221.95	Eastern	169	Rehabilitate Bridge
20	261/320	DRY RUN	57.72	Eastern	32	Replace Bridge

Total Number of Bridges = 4

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
20 / 924	0002102C	DAVIS CR	423.75	Eastern

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1936	Treated Timber Trestle	5 / 0	46.86 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
27.5 ft	77 ft	15 ft

Average Daily Traffic:	Truck%	Number of Lanes:
1,738	16%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	13	30.0 ft

Design Load: H 15

Op Rating: 33.00

Inv Rating: 23.00

HS: 0.92
A1: 1.05
A2: 1.14
A3: 1.28

Load Restricted Bridge? ☑

BL Load: 18,000
CL-8 Load: 18,000
SA Load: 36,000

Bridge Deck View

Bridge Inspection Information

Date Inspected:	4/20/2011	Structr Adequacy:	4
Superstr Code:	6	Safe Load:	5
Substr Code:	4	Deck Geometry:	4
Deck Code:	6	Underclearance:	9
Scour:	8	Waterway:	8

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	36 ft	Bridge $'s:	
New Bridge Length:	82 ft.	Total $'s:	$3,957,000
Priority Array #:	18		
PIN Number:	602042E	Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THE BRIDGE IS CLASSIFIED "SD" DUE TO THE SUBSTRUCTURE CODE.

The timber pier caps have checks up to 1/2" wide with the largest on the south half of Pier 5. The south end of Pier Cap 5 is RED TAGGED under the exterior girder. The pier cap is crushing and has a 7" rot pocket with a 2" shell. Pier cap 6 is tipped eastward and does not have full bearing on the piles.

Many of the piles have splits and checks up to 1/2" wide with the largest at Piles 3C and 4C. Piles 3C, 3D and 4A through 4E have been repaired or replaced with new timber piles from the bottom of the pile cap down to a steel collar at the mud line (5 total).

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
90 / 322N	0005761B	I-90 OVER SR 261	221.95	Eastern

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1952	Concrete Slab (Hollow)	3 / 0	45.28 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
31.7 ft	169 ft	66 ft

Average Daily Traffic:	Truck%	Number of Lanes:
8,026	28%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	2	40.0 ft

Design Load: HS 15
Op Rating: 36.00
Inv Rating: 22.00

HS: 1.25
A1: 1.75
A2: 1.59
A3: 1.63

Load Restricted Bridge? ☐
BL Load:
CL-8 Load:
SA Load:

Bridge Deck View

Bridge Inspection Information

Date Inspected:	7/11/2012	Structr Adequacy:	4
Superstr Code:	4	Safe Load:	5
Substr Code:	6	Deck Geometry:	2
Deck Code:	7	Underclearance:	8
Scour:	N	Waterway:	9

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width: ft
New Bridge Length: ft.
Priority Array #: 5
PIN Number: 609022B
WIN Number:
Contract Number:

Bridge $'s:
Total $'s: $3,000,000
Repl/Rehab Year: 2018
Ad Date: 4/3/2017
Funding Cat: P2

THIS BRIDGE IS CLASSIFIED "SD" BASED ON THE SUPERSTRUCTURE CONDITION.
Superstructure is coded as a "4" due to the longitudinal rusty cracks in the soffit of the hollow slab. note Top of slab covered with ACP. Edge of slab Leaching at slab to barrier interface. Vertical and diagonal hairline cracks on both edges of slab. Longitudinal crack in edge of slab at the NW corner approximately 15 ft. long. Soffit. Longitudinal cracks in soffit. Leaching along longitudinal joint at bottom centerline of slab in all spans. Longitudinal rust stained and leaching cracks, almost the full lengths of Span 1 and Span 2. The northeast corner of Span 3 has a spall 4"" x 4"" x 1/2"" deep. The ACP and membrane was removed and replaced in 2011 as part of an I-90 paving project (contract 8046).

Rehabilitation of this bridge will include: Steel Column Jackets, removal of the exterior portion of the slab and traffic barrier, widening the bridge to full standards (40 ft?).

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
90 / 322S	0005761A	I-90 OVER SR 261	221.95	Eastern

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1958	Concrete Slab (Hollow)	3 / 0	40.06 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
31.7 ft	169 ft	66 ft

Average Daily Traffic:	Truck%	Number of Lanes:
8,026	28%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	2	40.0 ft

Design Load: HS 20
Op Rating: 32.00
Inv Rating: 19.00

HS: 0.79
A1: 1.07
A2: 1.10
A3: 1.10

Load Restricted Bridge? ☐
BL Load:
CL-8 Load:
SA Load:

Bridge Deck View

Bridge Inspection Information

Date Inspected:	7/11/2012	Structr Adequacy:	4
Superstr Code:	4	Safe Load:	5
Substr Code:	6	Deck Geometry:	2
Deck Code:	7	Underclearance:	8
Scour:	N	Waterway:	9

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width: 40 ft
New Bridge Length: ft.
Priority Array #: 6
PIN Number: 609022B
WIN Number:
Contract Number:

Bridge $'s:
Total $'s: $3,000,000
Repl/Rehab Year: 2018
Ad Date: 4/3/2017
Funding Cat: P2

THIS BRIDGE IS CLASSIFIED "SD" BASED ON THE SUPERSTRUCTURE CONDITION.
Superstructure is coded as a "4" due to the longitudinal rusty cracks in the soffit of the hollow slab.
Edge of slab longitudinal crack, approximately 20 ft. long in north edge of Span 1; crack starts near west abutment. Another rust stained crack that is approximately 8 ft. long along north edge of the slab in Span 1. Vertical cracks in edges of the deck. There is a 25ft. long delamination with a rusty area on the north face of Span 3.

The ACP and membrane in the right lane was removed and replaced in 2011 as part of an I-90 paving project (contract 8046).

Rehabilitation of this bridge will include: Fiberglass Column Jackets, removal of the exterior portion of the slab and traffic barrier, widening the bridge to full standards (40 ft).

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
261 / 320	000000EP	DRY RUN	57.72	Eastern

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1900	Encased Steel Beam	2 / 0	29.51 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
24.0 ft	32 ft	14 ft

Average Daily Traffic:	Truck%	Number of Lanes:
292	21%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	8	28.0 ft

Design Load: Unknown

Op Rating: 25.00

Inv Rating: 15.00

HS: 2.96 Load Restricted Bridge? ☑

A1: 3.52 BL Load: 19,000

A2: 3.86 CL-8 Load: 21,000

A3: 4.28 SA Load: 32,000

Bridge Deck View

Bridge Inspection Information

Date Inspected:	6/13/2011	Structr Adequacy:	4
Superstr Code:	5	Safe Load:	5
Substr Code:	4	Deck Geometry:	5
Deck Code:	6	Underclearance:	9
Scour:	3	Waterway:	6

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	36 ft	Bridge $'s:	
New Bridge Length:	40 ft.	Total $'s:	$1,440,000
Priority Array #:	20		
PIN Number:		Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THE BRIDGE IS CLASSIFIED "SD" DUE TO A SUBSTRUCTURE CONDITION.
The NBI Substructure is a '4' due to the poor condition of the Pier 2 submerged pier wall and the abutments.

History of scour at Pier 2. Two span structure with unknown foundations. The concrete slab is 12" thick and is located on the west side of the bridge. The slab soffit is leaching with stalactites up to 2" long. The Midspan 1 edge has hairline leaching longitudinal cracks.The west slab edge near the north abutment has leaching hairline map cacks, some with rust stains.

Bridge replacement is needed.

Special Bridge Repairs - 2013-15 Biennium - Eastern

(Sorted by Priority#)

2013-15 Priority#:	Bridge Number	Bridge Name	Milepost	Region	Repair Description	Total$'s
45	026/002SP	N FK PALOUSE-WEST WYE	133.47	Eastern	Replace Conc Bridge Rail	$100,000
56	090/545E-E	FOURTH-E RAMP	280.54	Eastern	Repair deteriorated conc in CBOX	$300,000
57	290/001W-W	W-W RAMP OVER SR 290 W	0.07	Eastern	Repair deteriorated Conc Box	$400,000
62	090/540S	HANGMAN CR	279.49	Eastern	Repair deteriorated conc in CBOX	$300,000
78	002/601	STEVENS CR UPPER X-ING	267.23	Eastern	Replace Conc Bridge Rail	$50,000
80	195/027	N FK PALOUSE R	38.50	Eastern	Replace Conc Bridge Rail	$200,000
81	195/024	S FK PALOUSE R CT HOUSE	38.09	Eastern	Repair deteriorated Conc	$200,000
82	021/321	W FK SAN POIL	145.62	Eastern	Replace Conc Bridge Rail	$100,000
83	021/323	SAN POIL R	148.45	Eastern	Replace Conc Bridge Rail	$100,000
9	Repairs				Sum of Bridge $'s =	$1,750,000

Special Bridge Repairs - 2013-15 Biennium - Eastern

(Sorted by Bridge#)

2013-15 Priority#:	Bridge Number	Bridge Name	Milepost	Region	Repair Description	Total$'s
78	002/601	STEVENS CR UPPER X-ING	267.23	Eastern	Replace Conc Bridge Rail	$50,000
82	021/321	W FK SAN POIL	145.62	Eastern	Replace Conc Bridge Rail	$100,000
83	021/323	SAN POIL R	148.45	Eastern	Replace Conc Bridge Rail	$100,000
45	026/002SP	N FK PALOUSE-WEST WYE	133.47	Eastern	Replace Conc Bridge Rail	$100,000
62	090/540S	HANGMAN CR	279.49	Eastern	Repair deteriorated conc in CBOX	$300,000
56	090/545E-E	FOURTH-E RAMP	280.54	Eastern	Repair deteriorated conc in CBOX	$300,000
81	195/024	S FK PALOUSE R CT HOUSE	38.09	Eastern	Repair deteriorated Conc	$200,000
80	195/027	N FK PALOUSE R	38.50	Eastern	Replace Conc Bridge Rail	$200,000
57	290/001W-W	W-W RAMP OVER SR 290 W	0.07	Eastern	Repair deteriorated Conc Box	$400,000
9	Repairs				Sum of Bridge $'s =	$1,750,000

Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
26 / 2SP	0002385B	N FK PALOUSE-WEST WYE	38.50	Eastern

Year Built / YR Widened:	Bridge Type:	Bridge Length:	Bridge Width (curb-curb):	Sufficiency Rating:
1938	CTB	114 ft	26.0 ft	60.45 FO

Average Daily Traffic	Truck%	Freight Route	Num of Lanes
9,105	9%		2

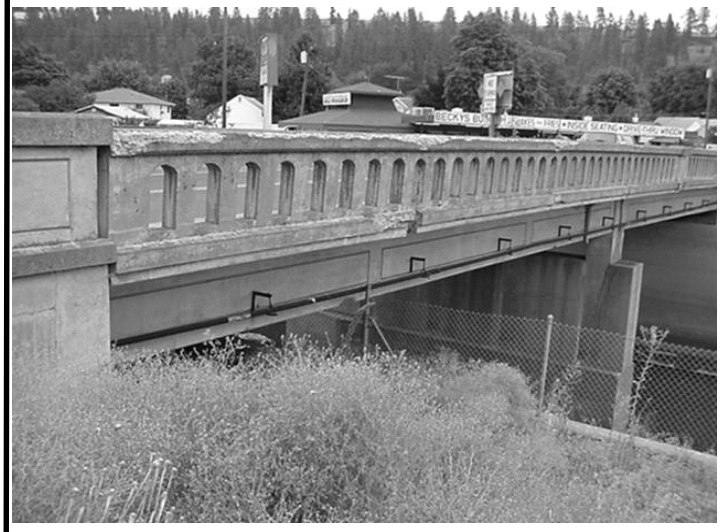
Date Inspected:	7/27/2010	Structr Adequacy:	5
Superstr Code:	6	Safe Load:	5
Substr Code:	6	Scour:	8

BMS Element Num: **331**

BMS Element Descr: **Concrete Bridge Rail**

BMS Element Quantity: 228 Feet

Project Number:		2013-15 Priority#:	35
Repair Year:	2016	2011-13 Priority#:	84
CPMS Ad Date:		Bridge $'s:	$100,000
		Repair Total$'s:	$300,000



Repair Description:

Replace the deteriorated concrete bridge rails and Sidewalk

COMMENTS

The concrete bridge rail and sidewalk is deteriorated and in need of replacement.

Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
90 / 540N	0006579B	HANGMAN CR	279.49	Eastern

Year Built / YR Widened:	Bridge Type:	Bridge Length:	Bridge Width (curb-curb):	Sufficiency Rating:
1963	CBOX	1,222 ft	44.0 ft	44.58 SD

Average Daily Traffic	Truck%	Freight Route	Num of Lanes
24,152	13%	T-1	3

Date Inspected:	10/6/2009	Structr Adequacy:	4
Superstr Code:	5	Safe Load:	5
Substr Code:	4	Scour:	7

BMS Element Num: **105**

BMS Element Descr: **Concrete Box Girder**

BMS Element Quantity: 2

Project Number:		2013-15 Priority#:	25
Repair Year:	2016	2011-13 Priority#:	33
CPMS Ad Date:		Bridge $'s:	$150,000
		Repair Total$'s:	$200,000

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 Preservation Program (P2)

Bridge Repair Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
90 / 540S	0006579B	HANGMAN CR	279.49	Eastern

Year Built / YR Widened:	Bridge Type:	Bridge Length:	Bridge Width (curb-curb):	Sufficiency Rating:
1963	CBOX	1,222 ft	44.0 ft	44.58 SD

Average Daily Traffic	Truck%	Freight Route	Num of Lanes
24,152	13%	T-1	3

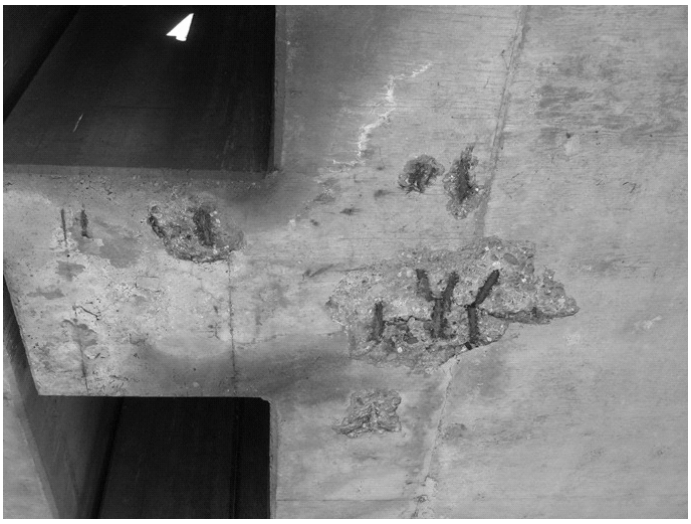
Date Inspected:	10/6/2009	Structr Adequacy:	4
Superstr Code:	5	Safe Load:	5
Substr Code:	4	Scour:	7

BMS Element Num: **105**

BMS Element Descr: **Concrete Box Girder**

BMS Element Quantity: 2

Project Number:		2013-15 Priority#:	26
Repair Year:	2016	2011-13 Priority#:	34
CPMS Ad Date:		Bridge $'s:	$150,000
		Repair Total$'s:	$200,000



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.

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Width	Length	Total$'s
1	90/316N	N PAHA PACKARD RD OC	215.24	Eastern	38.0	105	$334,500
1	90/316S	N PAHA PACKARD RD OC	215.24	Eastern	38.0	105	$334,500
1	90/512N	BN RR OC (NP)	270.10	Eastern	36.5	150	$473,000
1	90/512S	BN RR OC (NP)	270.10	Eastern	36.5	150	$473,000
1	395/545	COLUMBIA R KETTLE FALLS	241.49	Eastern	24.0	1267	$2,586,000
8	290/2W-W	2ND AVE OC	0.07	Eastern	38.0	167	$716,661
9	290/1W-W	W-W RAMP OVER SR 290 WB	0.07	Eastern	38.0	518	$402,800
14	90/314S	I-90 OVER N WAHL RD	210.03	Eastern	38.0	127	$500,000
31	90/336N	BN RR OC (NP)	237.24	Eastern	33.0	320	$1,019,700
39	395/212N-W	US 395 RAMP OVER I-90	95.00	Eastern	32.7	308	$1,007,200
41	21/4	SAND HILLS COULEE # 3	2.72	Eastern	24.0	85	$266,671
43	90/336S	BN RR OC (NP)	237.24	Eastern	33.0	320	$844,800
45	21/224	SINKING CR	85.16	Eastern	26.0	82	$278,694

Total Number of Bridges = 13 Totals $ = $9,237,526

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects

2013-15 Bien Priority Array

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Width	Length	Total$'s
41	21/4	SAND HILLS COULEE # 3	2.72	Eastern	24.0	85	$266,671
45	21/224	SINKING CR	85.16	Eastern	26.0	82	$278,694
14	90/314S	I-90 OVER N WAHL RD	210.03	Eastern	38.0	127	$500,000
1	90/316N	N PAHA PACKARD RD OC	215.24	Eastern	38.0	105	$334,500
1	90/316S	N PAHA PACKARD RD OC	215.24	Eastern	38.0	105	$334,500
31	90/336N	BN RR OC (NP)	237.24	Eastern	33.0	320	$1,019,700
43	90/336S	BN RR OC (NP)	237.24	Eastern	33.0	320	$844,800
1	90/512N	BN RR OC (NP)	270.10	Eastern	36.5	150	$473,000
1	90/512S	BN RR OC (NP)	270.10	Eastern	36.5	150	$473,000
9	290/1W-W	W-W RAMP OVER SR 290 WB	0.07	Eastern	38.0	518	$402,800
8	290/2W-W	2ND AVE OC	0.07	Eastern	38.0	167	$716,661
39	395/212N-W	US 395 RAMP OVER I-90	95.00	Eastern	32.7	308	$1,007,200
1	395/545	COLUMBIA R KETTLE FALLS	241.49	Eastern	24.0	1267	$2,586,000

Total Number of Bridges = 13 Totals $ = $9,237,526

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 21/4 MP: 2.72
BRIDGE NAME: SAND HILLS COULEE # 3
REGION: Eastern
YEAR BUILT / YR WIDENED: 1963
SUFFICIENCY RATING: 82.22
BRIDGE TYPE: CS
BRIDGE WIDTH: 24.0 ft.
BRIDGE LENGTH: 85 ft.
AVERAGE DAILY TRAFFIC: 224
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Steel Post - Thrie Beam
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

2/28/2007	017270	STEEL BLOCKOUT @ CURB W/THRIEBEA

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

The bridge deck has nearly 2% deterioration. The bridge deck needs to be repaired and then a 1.5" modified concrete overlay applied.

BRG NUMBER: 21 / 004

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 21/224 MP: 85.16
BRIDGE NAME: SINKING CR
REGION: Eastern
YEAR BUILT / YR WIDENED: 1950
SUFFICIENCY RATING: 81.08 SD
BRIDGE TYPE: CS
BRIDGE WIDTH: 26.0 ft.
BRIDGE LENGTH: 82 ft.
AVERAGE DAILY TRAFFIC: 268
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 1.1 Lt 1.1 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Balluster Rail
RAIL MEETS CURRENT STANDARDS? NO
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

Bridge Inspections indicate significant structural deck deterioration on the top surface.

BRG NUMBER: 21 / 224

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: Bruce Thill

DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/314S MP: 210.03
BRIDGE NAME: I-90 OVER N WAHL RD
REGION: Eastern
YEAR BUILT / YR WIDENED: 1972
SUFFICIENCY RATING: 93.49 SD
BRIDGE TYPE: PCB
BRIDGE WIDTH: 38.0 ft.
BRIDGE LENGTH: 127 ft.
AVERAGE DAILY TRAFFIC: 5,013
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

BRG NUMBER: 90 / 314S

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/316N MP: 215.24
BRIDGE NAME: I-90 OVER PAHA PACKARD
REGION: Eastern
YEAR BUILT / YR WIDENED: 1972
SUFFICIENCY RATING: 93.49 SD
BRIDGE TYPE: PCB
BRIDGE WIDTH: 38.0 ft.
BRIDGE LENGTH: 105 ft.
AVERAGE DAILY TRAFFIC: 5,013
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

A chain drag survey was completed in 10/2001 and found 4.1% of the deck has delaminations. Bridge Inspections indicate significant deck deterioration.

A new 1.5" modified concrete overlay is required to rehabilitate the deck. A Hydromilling machine should be used to scarify the bridge deck. This bridge is on the P2 Program Deck priority array.

BRG NUMBER: 90 / 316N

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/316S MP: 215.24
BRIDGE NAME: I-90 OVER N PAHA PACKARD
REGION: Eastern
YEAR BUILT / YR WIDENED: 1972
SUFFICIENCY RATING: 95.51 SD
BRIDGE TYPE: PCB
BRIDGE WIDTH: 38.0 ft.
BRIDGE LENGTH: 105 ft.
AVERAGE DAILY TRAFFIC: 5,013
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

A chain drag survey was completed in 10/2001 and found 2.1% of the deck has delaminations. Bridge Inspections indicate significant deck deterioration.

A new 1.5" modified concrete overlay is required to rehabilitate the deck. Remove and replace 1.5" LMC overlay by milling 1" and hydromill 0.5". This bridge is on the P2 Deck Program priority array.

BRG NUMBER: 90 / 316S

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill*

DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/336N MP: 237.24
BRIDGE NAME: BN RR OC (NP)
REGION: Eastern
YEAR BUILT / YR WIDENED: 1968
SUFFICIENCY RATING: 69.03 SD
BRIDGE TYPE: PCG
BRIDGE WIDTH: 33.0 ft.
BRIDGE LENGTH: 309 ft.
AVERAGE DAILY TRAFFIC: 8,210
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: MMC Overlay
1ST YEAR BRIDGE OVERLAY 1993
OVERLAY CONTRACT HISTORY

10/1/1992	014157	LMC OR MMC OLAY
1/1/1978	011147	ACP/MEMBRANE

EXPANSION JOINTS

Coordinate with your Region's Maintenance Office to determine if any repairs are required.

EXPANSION JOINT CONTRACT HISTORY

10/1/1992	014157	EXP JOINTS-COMP SEAL

BRIDGE RESURFACING / DECK COMMENTS

BRG NUMBER: 90 / 336N

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: Bruce Thill
DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/336S MP: 237.40
BRIDGE NAME: BN RR OC (NP)
REGION: Eastern
YEAR BUILT / YR WIDENED: 1968
SUFFICIENCY RATING: 70.32 SD
BRIDGE TYPE: PCG
BRIDGE WIDTH: 33.0 ft.
BRIDGE LENGTH: 320 ft.
AVERAGE DAILY TRAFFIC: 8,210
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: MMC Overlay
1ST YEAR BRIDGE OVERLAY 1993
OVERLAY CONTRACT HISTORY

10/1/1992	014157	LMC OR MMC OLAY
1/1/1978	011147	ACP/MEMBRANE

EXPANSION JOINTS

Coordinate with your Region's Maintenance Office to determine if any repairs are required.

EXPANSION JOINT CONTRACT HISTORY

10/1/1992	014157	EXP JOINTS-COMP SEAL

BRIDGE RESURFACING / DECK COMMENTS

BRG NUMBER: 90 / 336S

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

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See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: Bruce Thill
DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/512N MP: 270.10
BRIDGE NAME: BN RR OC (NP)
REGION: Eastern
YEAR BUILT / YR WIDENED: 1966
SUFFICIENCY RATING: 93.13 SD
BRIDGE TYPE: PCB
BRIDGE WIDTH: 36.5 ft.
BRIDGE LENGTH: 150 ft.
AVERAGE DAILY TRAFFIC: 8,672
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: LMC Overlay
1ST YEAR BRIDGE OVERLAY 1981
OVERLAY CONTRACT HISTORY

8/1/1981	012136	LMC OVERLAY

BRIDGE RESURFACING / DECK COMMENTS

Bridge Inspections indicate significant deck deterioration. There are areas in the overlay that have debonded and are now patched.

We recommend removing and replacing the 1.5" LMC overlay by milling 1" and hydromilling 0.5" of overlay. This bridge is on the P2 Deck Program priority array.

BRIDGE DECK HMA PAVING DESIGN OPTIONS

BRG NUMBER: 90 / 512N Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 90/512S MP: 270.10
BRIDGE NAME: I-90 OVER RAILROAD
REGION: Eastern
YEAR BUILT / YR WIDENED: 1966
SUFFICIENCY RATING: 92.13 SD
BRIDGE TYPE: PCB
BRIDGE WIDTH: 36.5 ft.
BRIDGE LENGTH: 150 ft.
AVERAGE DAILY TRAFFIC: 8,672
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: LMC Overlay
1ST YEAR BRIDGE OVERLAY 1981
OVERLAY CONTRACT HISTORY

8/1/1981	012136	LMC OVERLAY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

Bridge Inspections indicate significant deck deterioration. There are areas in the overlay that have debonded and are now patched.

We recommend removing and replacing the 1.5" LMC overlay by milling 1" and hydromilling 0.5" of overlay. This bridge is on the P2 Deck Program priority array.

BRIDGE DECK HMA PAVING DESIGN OPTIONS

BRG NUMBER: 90 / 512S Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 290/1W-W MP: 0.07
BRIDGE NAME: W-W RAMP OVER SR 290 WB
REGION: Eastern
YEAR BUILT / YR WIDENED: 1971
SUFFICIENCY RATING: 84.39 SD
BRIDGE TYPE: CBOX
BRIDGE WIDTH: 38.0 ft.
BRIDGE LENGTH: 518 ft.
AVERAGE DAILY TRAFFIC: 5,369
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type R
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: LMC Overlay
1ST YEAR BRIDGE OVERLAY 1984
OVERLAY CONTRACT HISTORY

7/1/1984	012748	LMC OVERLAY

EXPANSION JOINTS

Coordinate with your Region's Maintenance Office to determine if any repairs are required.

EXPANSION JOINT CONTRACT HISTORY

7/1/1984	012748	JNTS-BOLT DOWN

BRIDGE RESURFACING / DECK COMMENTS

BRG NUMBER: 290 / 001W-W

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: Bruce Thill

DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 290/2W-W MP: 0.07
BRIDGE NAME: W-W RAMP OVER 2ND AVE
REGION: Eastern
YEAR BUILT / YR WIDENED: 1974
SUFFICIENCY RATING: 92.45 SD
BRIDGE TYPE: CBOX
BRIDGE WIDTH: 38.0 ft.
BRIDGE LENGTH: 167 ft.
AVERAGE DAILY TRAFFIC: 5,369
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: New Jersey Barrier
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: LMC Overlay
1ST YEAR BRIDGE OVERLAY 1985
OVERLAY CONTRACT HISTORY

7/1/1984	012748	LMC OVERLAY

BRIDGE RESURFACING / DECK COMMENTS

Exclude bridge from resurfacing projects.

BRG NUMBER: 290 / 002W-W

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 395/212N-W MP: 95.00
BRIDGE NAME: US 395 RAMP OVER I-90
REGION: Eastern
YEAR BUILT / YR WIDENED: 1958
SUFFICIENCY RATING: 89.44 SD
BRIDGE TYPE: CBOX
BRIDGE WIDTH: 32.7 ft.
BRIDGE LENGTH: 308 ft.
AVERAGE DAILY TRAFFIC: 751
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: New Jersey Barrier
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: LMC Overlay
1ST YEAR BRIDGE OVERLAY 1984
OVERLAY CONTRACT HISTORY

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

Exclude bridge from resurfacing projects.

BRG NUMBER: 395 / 212N-W

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill* DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 395/545 MP: 241.49
BRIDGE NAME: COLUMBIA R KETTLE FALLS
REGION: Eastern
YEAR BUILT / YR WIDENED: 1941
SUFFICIENCY RATING: 37.78 SD
BRIDGE TYPE: ST CTB
BRIDGE WIDTH: 24.0 ft.
BRIDGE LENGTH: 1,267 ft.
AVERAGE DAILY TRAFFIC: 4,218
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 3.5 Lt 0.0 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Steel Post - Thrie Beam
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

1/1/2005	016903	THRIE BEAM RETROFIT

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

EXPANSION JOINTS

Coordinate with your Region Maintenance Office to determine if any repairs are required.

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

Bridge deck repair and overlay is warranted based on the amount of patching and chain drag survey results. We recommend using a hydromill and applying a new modified concrete overlay.

Coordinate with Bruce Thill in the Bridge Office for specific overlay details.

BRG NUMBER: 395 / 545

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill*

DATE: 6/21/2011

P2 Bridge Preservation - Steel Bridge Painting Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project$
25	21/334	KETTLE R	181.00	Eastern	2018	$1,260,000
47	395/545	COLUMBIA R KETTLE FALLS	241.49	Eastern	2022	$10,712,000
53	25/130	COLUMBIA R @ NORTHPORT	113.92	Eastern	2024	$7,585,500

Total Number of Bridges = 3

Total Project $ = $19,557,500

P2 Bridge Preservation - Steel Bridge Painting Projects

2013-15 Bien Priority Array

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project$
25	21/334	KETTLE R	181.00	Eastern	2018	$1,260,000
53	25/130	COLUMBIA R @ NORTHPORT	113.92	Eastern	2024	$7,585,500
47	395/545	COLUMBIA R KETTLE FALLS	241.49	Eastern	2022	$10,712,000

Total Number of Bridges = 3

Total Project $ = $19,557,500

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
21 / 334	KETTLE R	181.00	Eastern

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1960	ST	205 ft.	26 ft.	180

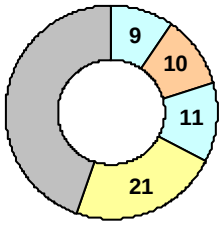
Paint Age:	Paint Color: 30099	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
21	Warm Brown	27,000 sqft	21,600 sqft	5,400 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2018	25	Past Due			$1,260,000

Past Paint History

Years	Cycle
1990	11
1979	10
1969	9
1960	

Painting Cycle



= Current Paint Age

The top flange of the floor beams and stringers are embedded in concrete.

Bridge Inspector's Notes:
Paint is chalky and peeling, heavy in spots, on the diagonals and portals of the truss with rust blooms, approximately 15%. The paint on the stringers and floor beams is in good condition except for scattered rock chips from kids throwing rocks at swallow nests. The sand build up on the lower chord has been flushed, revealing the failed paint system.

Full removal of the paint is warranted on the top and bottom chords and the connection areas.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
25 / 130	COLUMBIA R @ NORTHPORT	113.92	Eastern

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1948	ST CTB CG CS	840 ft.	24 ft.	1,167

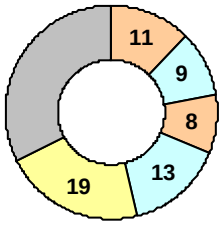
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
19	Evergreen	175,050 sqft	10,000 sqft	930 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2024	53	Due			$7,585,500

Past Paint History

Years	Cycle
1992	13
1979	8
1971	9
1962	11
1951	

Painting Cycle



= Current Paint Age

Bridge Inspector's note:
Paint is missing from most steel members due to the impact of snow removal with gravel. Steel Floorbeams; Peeling paint throughout webs. Steel Truss Members; The primer is exposed in places with some light rust where the paint has failed completely. The top paint coat is also peeling off in places with scattered rust blooms, particularly at top sways and laterals and inside top chords. Surface rust on the truss members at the deck level to about 6 ft. off of the deck. Paint is peeling inside most of the enclosed truss members. Metal Bridge Railing; All members are rusty with paint peeling or missing on 30% of the surface.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
395 / 545	COLUMBIA R KETTLE FALLS	241.49	Eastern

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1941	ST CTB	1051 ft.	24 ft.	1,648

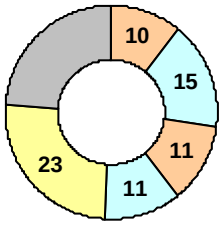
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
23	Evergreen	247,200 sqft	9,600 sqft	2,400 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2022	47	Due			$10,712,000

Past Paint History

Years	Cycle
1988	11
1977	11
1966	15
1951	10
1941	

Painting Cycle



= Current Paint Age

No Photo Available

P2 Bridge Preservation - Seismic Retrofit

2013-15 Bien Priority Array (priority 1-100)

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item$'s	Total$'s
Total Number of Bridges = 0				Total$ =	$0	$0

WSDOT Scour Projects - 2013-15 Bien

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Length	Mile post	Region	PIN #	Year Planned	Project Total$'s

Total Number of Bridges = 0

Total Bien$'s = $0

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Eastern Region

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
1	21/332.75	CURLEW CREEK	172.85	Eastern	70	$712,050

Total Number of Bridges = 1

Bridge Preservation Program (P2)

Misc Struct Repair Info Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
21 / 332.75	00200373	CURLEW CREEK	172.85	Eastern

Year Built / YR Widened:	Bridge Type:	Bridge Length:	Bridge Width (curb-curb):	Sufficiency Rating:
1950	SCulv CCulv	17 ft	22.0 ft	65.22

Average Daily Traffic:	Detour (miles)	Num of Lanes:
580	93	2

Date Inspected:		Structr Adequacy:	3
Superstr Code:	9	Safe Load:	5
Substr Code:	9	Scour:	2

Project Number:	602117C	2013-15 Priority#:	1
Repair Year:	2012	2011-13 Priority#:	1
CPMS Ad Date:	5/21/2012	Bridge $'s:	
		Repair Total$'s:	$712,050

Repair Description:

Replace the 4 existing Culverts with a new three-sided box.

COMMENTS

Replace the 4 existing culverts and install a new three-sided box culvert. The channel will be realigned to prevent bank erosion and scour potential. Reconstruct lanes and shoulders of SR 21. Build a detour around the construction area.

Scheduled to be replaced in 2012.