

## Bridge 03767 Inspection Report



Latitude:34.92984, Longitude:-91.10821

Route:78 Section:01 Log:5.1

Arnold Road ID:68x78x1xA, Arnold Log mile:5.12

District 01, 123 - St. Francis County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

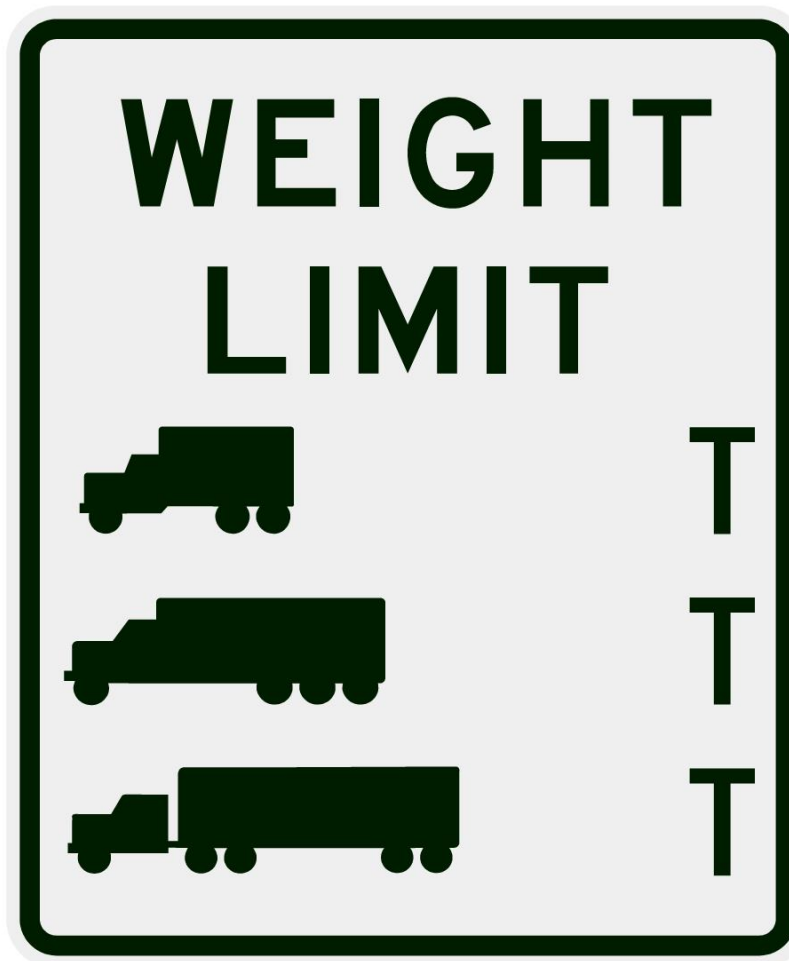
### Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

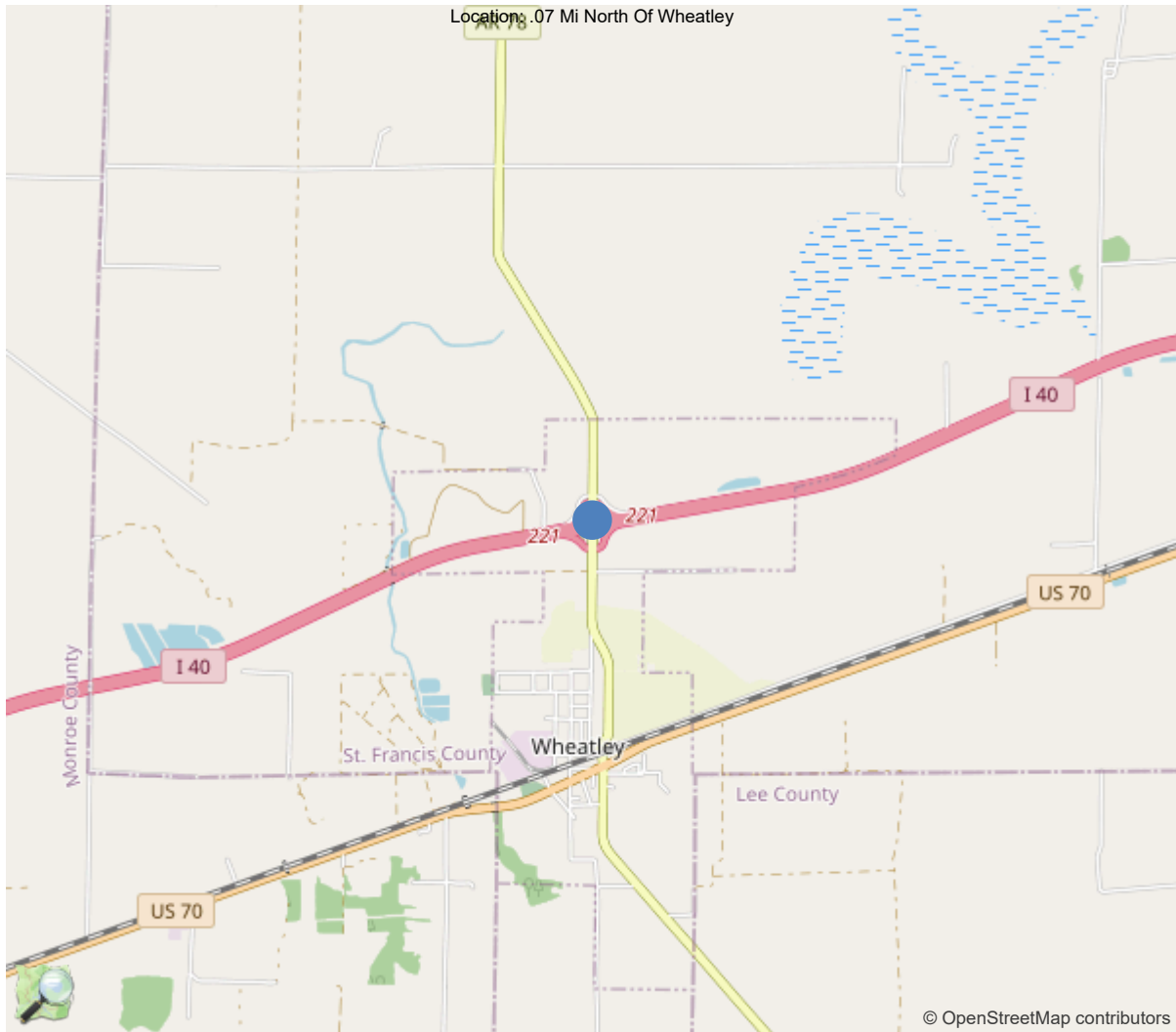
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	49		
Code 5 (40 Tons)	56		

If calculated capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner.



30"x36" AR



34.92984, -91.10821

# National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03767
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	123 - St. Francis County
(4) Place Code	74840
(6) Features Intersected	I-40/Sec-51/L-220.85
(7) Facility Carried	Sh-78/Sec-1/L-5.1
(9) Location	.07 Mi North Of Wheatley
(11) Mile Point	5.1 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.92984
(17) Longitude	-91.108208
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1965
(106) Year Reconstructed	0
(42) Type of Service	61
On	6 - Overpass structure at an interchange or s
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	410
(30) Year of ADT	2019
(109) Truck ADT	11 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	67 ft
(49) Structure Length	220.3 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	29 ft
(32) Approach Roadway Width (W/Shoulders)	22.5 ft
(33) Bridge Median	0 - No median
(34) Skew	5 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	26 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	15.87 ft
Ref:	
(55) Min Lat Underclear RT	9 ft
Ref:	
(56) Min Lat Underclear LT	8.3 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	4
(59) Superstructure	4
(60) Substructure	5
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	6
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	220 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 307
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	1694
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			02/26/2024
(91) Frequency			12
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			

Team Lead: Anthony Caudel, Inspection Date: 02/26/2024

## Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	03767
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1965

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	123 - St. Francis County
B.L.03 Place Code	74840 - Wheatley
B.L.04 Highway Agency District	01 - District 01
B.L.05 Latitude	34.92984
B.L.06 Longitude	-91.108208
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	.07 Mi North Of Wheatley
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	220.1
B.G.02 Total Bridge Length	220.1
B.G.03 Max Span Length	66.9
B.G.04 Min Span Length	42
B.G.05 Bridge Width Out-to-Out	28.9
B.G.06 Bridge Width Curb-to-Curb	25.9
B.G.07 Left Curb or Sidewalk Width	1.6
B.G.08 Right Curb or Sidewalk Width	1.6
B.G.09 Approach Roadway Width	22.6

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	5
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	20
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	6355.9

LOADS AND LOAD RATING	
B.LR.01 Design Load	H20 - H-20
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	1
B.LR.06 Operating Load Rating Factor	1.67
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	Y - E/E' details are present
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	4 - POOR - Widespread moderate
B.C.02 Superstructure Condition	6 - SATISFACTORY - Widespread
B.C.03 Substructure Condition	5 - FAIR - Some moderate defec
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	6 - SATISFACTORY - Widespread
B.C.07 Bridge Bearings Cond.	6 - SATISFACTORY - Widespread
B.C.08 Bridge Joints Condition	4 - POOR - Widespread moderate
B.C.09 Channel Condition Rating	N - NOT APPLICABLE - Bridge do
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	N - Bridge does not cross over
B.C.12 Bridge Condition Classification	P - Poor
B.C.13 Lowest Condition Rating	4 - POOR - Widespread moderate
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	F - Fair
B.AP.02 Overtopping Likelihood	0 - Never
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Anthony Caudel, Inspection Date: 02/26/2024

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	4	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	5	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S01 - Steel - rolled	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	C01 - Coating - paint	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
<b>A1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
B.SB.02 No. of Substructure Units	3	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	B01 - Bent - column or open	B.SB.07 Foundation Protective System	0 - None

Team Lead: Anthony Caudel, Inspection Date: 02/26/2024

HIGHWAY FEATURES					
H1					
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	410		
B.F.03 Feature Name	Sh-78/Sec-1/L-5.1	B.H.10 Annual ADTT	45		
B.H.01 Functional Classification	5 - Major Collector	B.H.11 Year of Annual ADT	2019		
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9		
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9		
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left			
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right			
B.H.06 LRS Route ID		B.H.16 Highway Max Usable Surface Width	25.9		
B.H.07 LRS Mile Point	5.1	B.H.17 Bypass Detour Length	5		
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number			
H2					
B.F.02 Feature Location	B - Below bridge	B.H.09 Annual ADT	29000		
B.F.03 Feature Name	I-40/Sec-51/L-220.85	B.H.10 Annual ADTT	290		
B.H.01 Functional Classification	1 - Interstate	B.H.11 Year of Annual ADT	2019		
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	16		
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	15.8		
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	B.H.14 Highway Min Horizontal Clearance, Left	8.2		
B.H.05 STRAHNET Designation	1 - STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	8.8		
B.H.06 LRS Route ID	40510	B.H.16 Highway Max Usable Surface Width	41.6		
B.H.07 LRS Mile Point	220.8	B.H.17 Bypass Detour Length	2		
B.H.08 Lanes On Highway		B.H.18 Crossing Bridge Number			
H3					
B.F.02 Feature Location	B - Below bridge	B.H.09 Annual ADT	29000		
B.F.03 Feature Name	I-40/Sec-51/L-220.80	B.H.10 Annual ADTT	290		
B.H.01 Functional Classification	1 - Interstate	B.H.11 Year of Annual ADT	2019		
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	16		
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance			
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	B.H.14 Highway Min Horizontal Clearance, Left			
B.H.05 STRAHNET Designation	1 - STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right			
B.H.06 LRS Route ID	40510	B.H.16 Highway Max Usable Surface Width	41.9		
B.H.07 LRS Mile Point	220.8	B.H.17 Bypass Detour Length	2		
B.H.08 Lanes On Highway		B.H.18 Crossing Bridge Number			

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	R01	78	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline
H2	R01	40W	2-T - TEMP - Two-way traffic - NS or EW	1 - Interstate route	1 - Mainline
H3	R01	40E	1-T - TEMP - One-way traffic - NB or EB or SB or WB	1 - Interstate route	1 - Mainline



Team Lead: Anthony Caudel, Inspection Date: 02/26/2024

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent - Open	

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



## Inspection Notes

### General Observation

2/26/2024 - ADC & AMJ

A Routine inspection was conducted on this date.

### 58 - Deck (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour)

Deck is rated a 4 due to the numerous full depth and partial depth patches that are sound and unsound in all spans, there are large transverse cracks, abrasion, spalls, and delaminated areas in all spans, also the under surface has efflorescent leaching throughout structure.

### 59 - Superstructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

The superstructure rating was lowered from a 6 to a 4 due to the old section loss, multiple holes found at ends of girders, and the section loss at mid span, web, bottom flange juncture on exterior girders of span 1.

### 60 - Substructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

We rated the substructure a 5 due to the reinforced concrete pier caps, and top of abutment backwall having spalls with reinforcing steel exposed with heavy section loss, also the reinforced concrete pier caps having large cracks/delaminated areas around bearing areas. Note the defects were not directly under the bearing area at this inspection.

### A-54 - Sealable Deck Cracks (Y)

This deck is in poor condition and needs to be sealed. This structure needs a new deck.

### A-55 - Deck Washing Needed (Y)

The gutter lines in all spans have dirt and debris.

### A-57 - Girder End and Bearing Painting Needed (Y)

All beam ends, and bearings need to be sandblasted and painted after holes in girders are repaired.

### A-58 - Cap Cleaning/Flushing Needed (Y)

All interior caps have dirt and debris.

### A-59 - Joint Repair Needed (Y)

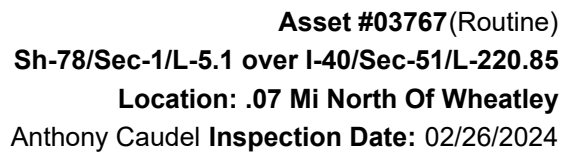
Assembly joints are in poor condition and need to be replaced.

### A-61 - Polymer Overlay Advised (N)

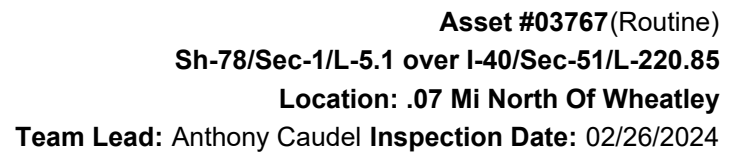
Deck has deteriorated to much.

### A-62 - Hydro and LMC Advised (N)

Deck has deteriorated to much.

[illegible]

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 4, column 1, has corner cracked and delaminated , also has a few small pieces of rebar exposed. CS2 Bent 4, column 2, has a few pieces of exposed rebar. CS2 Bent 4, column 1, left side has vertical crack with rust staining. CS3							
215	Reinforced Concrete Abutment	LF	74	37	12	25	0
1080	Delamination/Spall/Patched Area	LF	15	0	0	15	0
1090	Exposed Rebar	LF	10	0	0	10	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(215) Bent 1, head wall has several vertical cracks. CS2 Bent 1, cap has 1' spall under girder 2 with exposed rebar with moderate section loss. CS3 Bent 5, has vertical cracks some with light efflorescence. CS2 Bent 5, left side head wall has hairline diagonal crack. CS2 Bent 5 has spalling all the way across top of back wall, with exposed reinforcing steel in areas. CS3 Spalling, and exposed rebar.							
234	Reinforced Concrete Pier Cap	LF	84	19	14	51	0
1080	Delamination/Spall/Patched Area	LF	14	0	14	0	0
1090	Exposed Rebar	LF	31	0	0	31	0
1130	Cracking (RC and Other)	LF	20	0	0	20	0
(234) Bent 2, ahead has large area of exposed reinforcing steel with heavy section loss to rebar. CS3 Bent 3, back has large area with exposed reinforcing steel with section loss. CS3 Bent 3, lower ahead face has large longitudinal cracking, and large spalled area above column 1. Both defects CS3 Bent 3, ahead, right side has large spall near bearing area.CS3 Bent 4 cap, backside, above column 1 has large spalled area with exposed reinforcing steel with section loss. CS3 Bent 4, backside, above column 2 has large spalled area with exposed reinforcing steel with section loss. CS3 Bent 4, ahead has large spalls with exposed reinforcing steel with section loss. CS3							
305	Assembly Joint without Seal	LF	140	0	95	33	12
2370	Metal Deterioration or Damage	LF	140	0	95	33	12
(305) All assembly joints have heavy corrosion with section loss. Bent 2 assembly joint has holes rusted on both shoulders. CS4 2' : CS3 2' corrosion. Bent 3 assembly joint has holes rusted 10' CS4 : 3' CS3 Bent 4 right side assembly joint has corrosion with heavy section loss. Both shoulders CS3							
311	Movable Bearing	EA	20	0	5	15	0
1000	Corrosion	EA	20	0	5	15	0
515	Steel Protective Coating	SF	80	0	36	0	44
3440	Effectiveness (Steel Protective Coatings)	SF	80	0	36	0	44
(311) Bearings have surface rust with risers having no paint rest of bearings paint has limited effectiveness. Bearings have corrosion with laminations between plates little section loss.							
313	Fixed Bearing	EA	20	0	0	20	0
1000	Corrosion	EA	20	0	0	20	0
515	Steel Protective Coating	SF	80	0	36	0	44
3440	Effectiveness (Steel Protective Coatings)	SF	80	0	36	0	44



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(313) Bearings have surface rust with risers having no paint rest of bearings paint has limited effectiveness. Bearings have corrosion with laminations between plates little section loss.CS3							
330	Metal Bridge Railing	LF	440	438	2	0	0
1900	Distortion	LF	2	0	2	0	0
(330) Span 3 right rail has minor collision damage.CS2							
331	Reinforced Concrete Bridge Railing	LF	440	440	0	0	0
(331) Rail has moderate scaling full length. Span 3 right side has spalls with exposed reinforcing steel with no section loss. CS3 Spalling							

## Inspection Photos and Notes



Elevation



Typical Deck



Typical under surface



Inspection direction



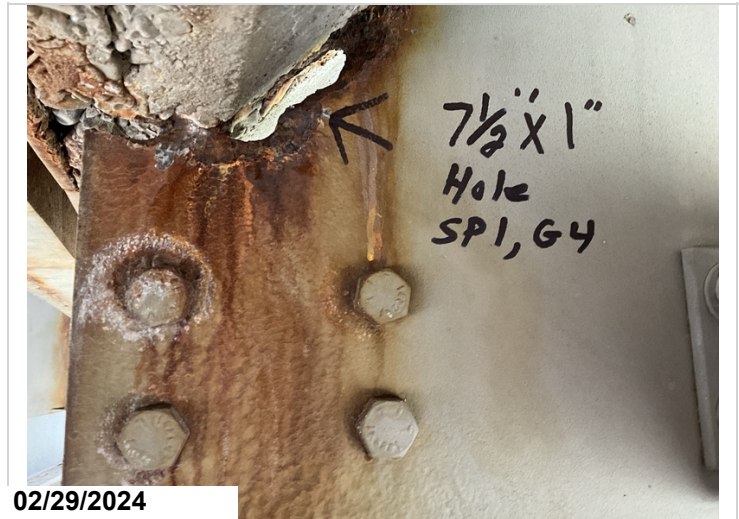
Typical photo of span 2



Deck washing need in all spans.



Bent 5 typical condition of fixed bearings. CS3  
This is typical condition of all bearings



Span 1, Bent 2, girder 4 in haunch area has a 7 1/2"x1" hole.  
CS3



Bent 3 ahead, right side has large spall near bearing area. CS3



Bent 2 assembly joint has holes rusted on both shoulders.  
CS4 2':  
CS3 2' corrosion.



Bent 3 assembly joint has holes rusted 10' CS4: 3' CS3



Bent 4 right side assembly joint has corrosion with heavy section loss. Both shoulders CS3



No log mile sign



Typical under surface



Typical Bridge Railing



Typical Transition Railing.



Bent 5 typical condition of fixed bearings. CS3



Bent 4 right side assembly joint has corrosion with heavy section loss. Both shoulders CS3



Bent 3 assembly joint has holes rusted 10' CS4: 3' CS3



Bent 2 assembly joint has holes rusted on both shoulders.  
CS4 2':  
CS3 2' corrosion.



Span 4, end of structure typical photo.



Typical photo of span 2



Span 1, left lane has spalling with exposed reinforcing steel with section loss. CS3



Span 2, left lane has large spalled areas. CS3



Span 2, left lane has large spalled areas. CS3



Span 3, right lane has spall next to shoulder. CS3



Span 4 has scattered areas of spalls/delam. CS3



Span 4, right lane has large spalls . CS3



Span 1 under surface showing heavy leaching throughout. CS3



Span 1, right soffit area has heavy leaching to deck. CS3



Span 3, bay 4 has large spall with reinforcing steel exposed with section loss. CS3



Bent 3, ahead, span 3 , bay 2 has full depth repaired area.



Span 3 has efflorescent leaching throughout at scattered locations. CS3



Span 4, bay 1 has efflorescent leaching with rust staining. CS3



Span 4, bay 1 has spalling with exposed reinforcing steel with section loss. CS3



Span 4, Bent 5, right side deck has efflorescent leaching. CS3



Typical photo of span 3. CS3 Abrasion



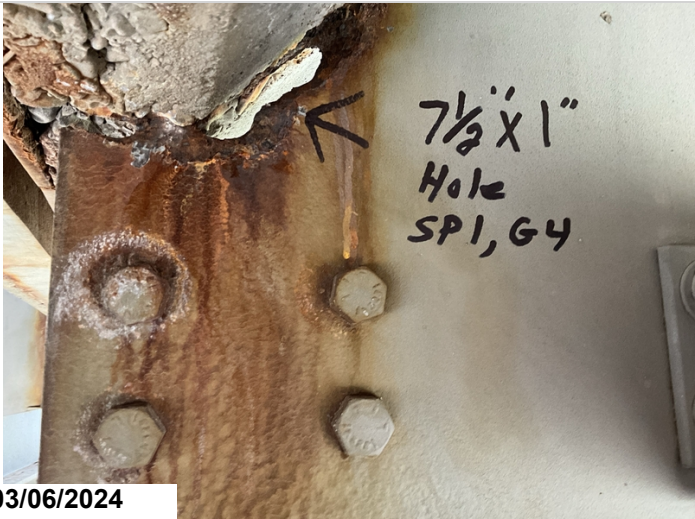
Span 1, left lane has sealed and a few unsealed transverse cracks. CS3



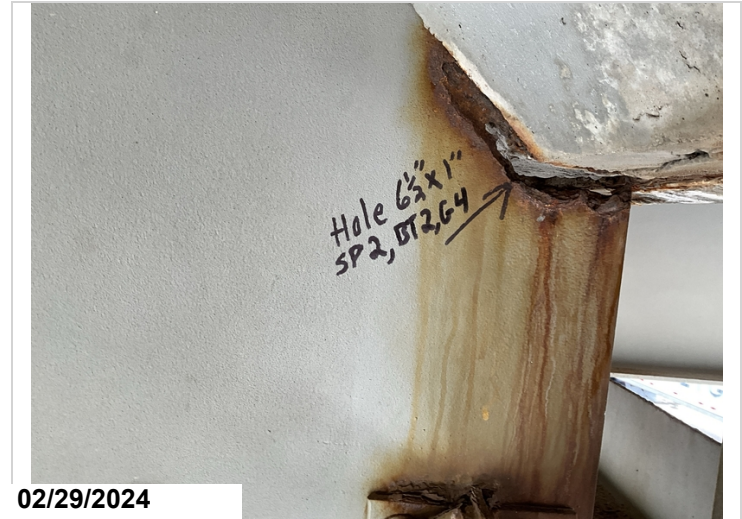
Span 1, right lane has shallow spalled areas. CS3



Span 1, typical photo of deck patches sound and unsound patches.



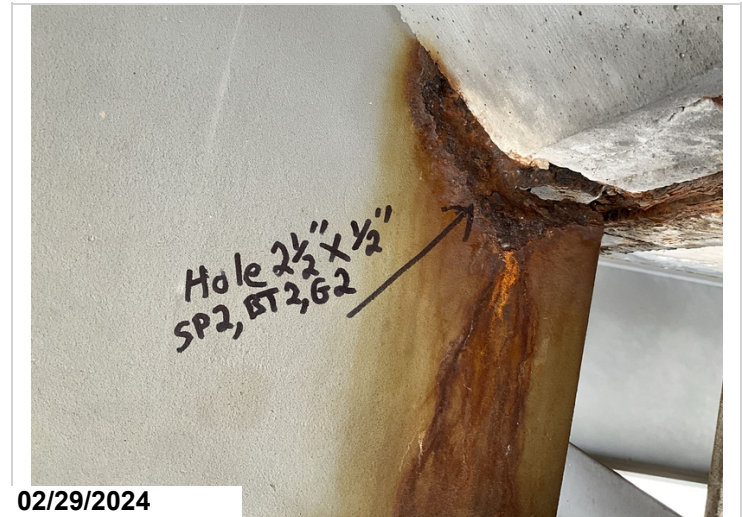
Span 1, Bent 2, girder 4 in haunch area has a 7½"x1" hole. CS3



Span 2, bent 3, girder 4, in the haunch area, has a 6½"x1" hole. CS3



Span 2, bent 3, girder 3, haunch area has a 7"x1" hole. CS3



Span 2, bent 3, girder 2, haunch area has a 2½"x½" hole. CS3



02/29/2024

Span 2, bent 3, girder 1, in the haunch area has up to 1/4" section loss. CS3



02/29/2024

Span 1, bent 2, girder 5 in the haunch area has up to 7/16" section loss. CS3



02/29/2024

Span 1, bent 2, girder 3 in haunch area has a 3 1/2"x1 1/2" hole. CS3



02/29/2024

Span 1, bent 2, girder 2 has a hole in the haunch area 1"x5". CS3



02/29/2024

Span 1, girder 1, bent 2, bottom flange has up to 3/8 section loss. CS3



02/29/2024

Span 1, girder 1, bent 2, in the haunch area has up to 5/16" section loss. 16"x 2"x 5/16", CS3



02/29/2024

Span 1, bent 2, girder 1 under diaphragm connection at bent 2, has 2 small hole in web. Dime size and quarter size holes. CS3  
8x12 area around diaphragm, this is the section loss area.



02/29/2024

Span 3, bent 3, girder 1, in the haunch area has up to 3/16" section loss. CS3



Span 3, bent 3, girder 5 in the haunch area has up to 1/8" section loss. CS3



Span 2, bent 3, girder 5, in haunch area has up to 3/8" section loss. CS3



Span 2, bent 2, girder 5, in haunch area has up to 1/8" section loss. CS3



Span 1, girder 5, 5' back of bent 2, has areas with up to 3/16" section loss at mid span there are several other locations that appear to have the same amount of corrosion. CS3



Span 1, bent 2, girder 1, bottom web flange juncture has section loss up to 15'. CS3



Span 2, bent 2, girder 1 in haunch area has up to 1/8" section loss. CS3



Span 1 girder 1 has flaking rust to the top and bottom flange.



Span 1 girder 5 has active corrosion to top flange and bottom flange area.



Abutment 1 girder 5 at haunch area has active corrosion with section loss. 1/16". CS3



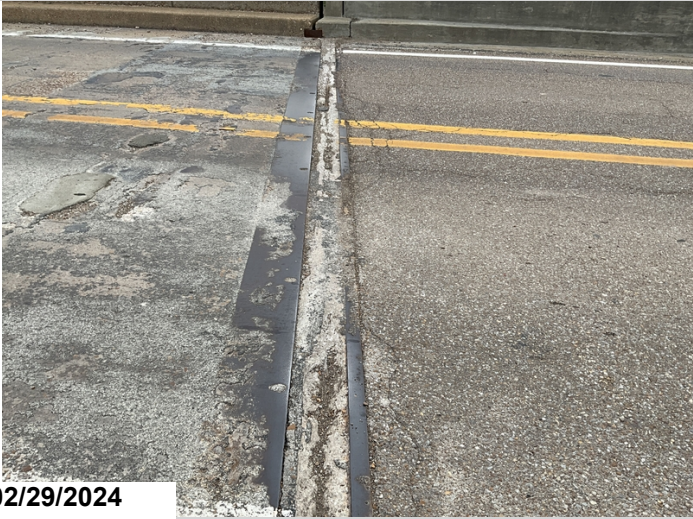
Bent 3 girders 5 has surface corrosion with minor section loss to end of girder. 1/16" CS3



Bent 4, column 1, left side has vertical crack with rust staining. CS3



Bent 5, bay 4, vertical cracks. CS2



Bent 5 has spalling all the way across top of back wall, with exposed reinforcing steel in areas. CS3 Spalling, and exposed rebar.



Bent 3 ahead, right side has large spall near bearing area. CS3



Bent 4 cap, backside, above column 1 has large spalled area with exposed reinforcing steel with section loss. CS3



Bent 3, lower ahead face has large longitudinal cracking, and large spalled area above column 1. Both defects CS3



Bent 2, ahead has large area of exposed reinforcing steel with heavy section loss to rebar. CS3



Bent 3 back has large area with exposed reinforcing steel with section loss. CS3



Bent 4, backside, above column 2 has large spalled area with exposed reinforcing steel with section loss. CS3



Bent 4, ahead has large spalls with exposed reinforcing steel with section loss. CS3



Bent 4 right side assembly joint has corrosion with heavy section loss. Both shoulders CS3



Bent 3 assembly joint has holes rusted 10' CS4: 3' CS3



Bent 2 assembly joint has holes rusted on both shoulders.  
CS4 2':  
CS3 2' corrosion.



Bent 5 typical condition of fixed bearings. CS3  
This is typical condition of all bearings



Span 3 right rail has minor collision damage. CS2



Span 3 right side has spalls with exposed reinforcing steel with no section loss. CS3 Spalling

### Maintenance Needs

**Date Reported:** 05/06/2021

**Priority:** A - Safety deficiency; requires prompt action

**Status:** Assigned

**Type of Work:** Repair (General)

**Component:** Element

### Deficiency Description

Span #2 soffit-under surface has 10 square feet of delaminations and one form board left in place over right travel lane.  
Span #3 soffit-under surface has 5 square feet of delaminations over left travel lane and median.

### Remarks



Span #2 soffit-under surface



Span #3 soffit-under surface.

### Maintenance Needs

Date Reported: 02/29/2024

Priority: B - Pressing

Status: Open

Type of Work: Superstructure Repair

Component: Superstructure

### Deficiency Description

Girders - Span 1, bent 2, girder 1, under diaphragm connection at bent 2, has 2 small holes in web. Dime size and quarter size holes. CS3

Span 1, bent 2, girder 1, in the haunch area has up to 5/16" section loss. Measurements of section loss area, 16"x 2"x 5/16". CS3

Span 1, bent 2, girder 1, bottom flange has up to 3/8 section loss that extends approximately 3'. CS3

Span 1, bent 2, girder 2, haunch area has a 1"x5" hole. CS3

Span 1, bent 2, girder 3, haunch area has a 3½"x1½" hole. CS3

Span 1, Bent 2, girder 4, haunch area has a 7½"x1" hole. CS3

Span 1, bent 2, girder 5, haunch area has up to 7/16" section loss. CS3

Span 2, bent 3, girder 1, haunch area, has up to 1/4" section loss. CS3

Span 2, bent 3, girder 2 haunch area, has a 2½"x1½" hole. CS3

Span 2, bent 3, girder 3, haunch area, has a 7"x1" hole. CS3

Span 2, bent 3, girder 4, haunch area has a 2½"x1½" hole. CS3

Span 2, bent 3, girder 5, haunch area has up to 3/8" section loss. CS3

### Remarks



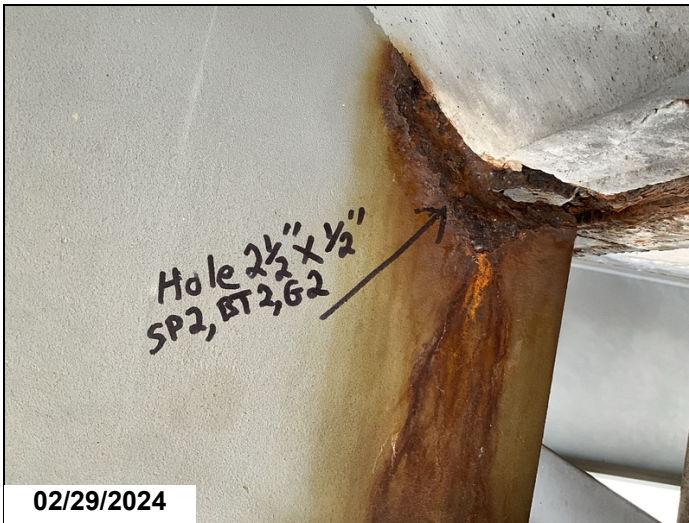
02/29/2024

Span 2, bent 3, girder 5, in haunch area has up to 3/8" section loss. CS3



02/29/2024

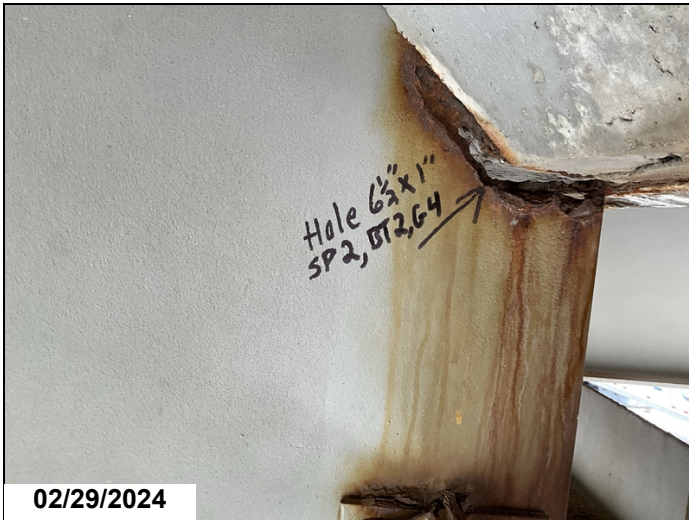
Span 2, bent 3, girder 1, in the haunch area has up to 1/4" section loss. CS3



Span 2, bent 3, girder 2, haunch area has a 2½"x½" hole. CS3



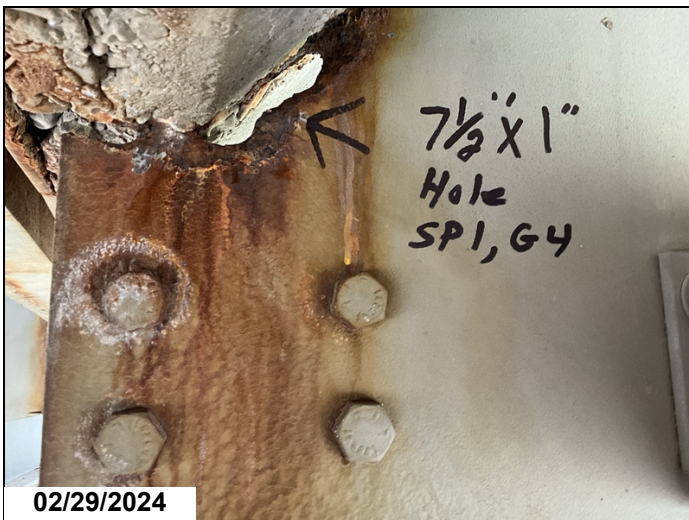
Span 2, bent 3, girder 3, haunch area has a 7"x1" hole. CS3



Span 2, bent 3, girder 4, in the haunch area, has a 6½"x1" hole. CS3



Span 1, bent 2, girder 5 in the haunch area has up to 7/16" section loss. CS3



Span 1, Bent 2, girder 4 in haunch area has a 7½"x1" hole. CS3



Span 1, bent 2, girder 3 in haunch area has a 3½"x1" hole. CS3



02/29/2024

Span 1, bent 2, girder 2 has a hole in the haunch area  
1"x5". CS3



02/29/2024

Span 1, girder 1, bent 2, bottom flange has up to 3/8  
section loss. CS3



02/29/2024

Span 1, girder 1, bent 2, in the haunch area has up to  
5/16" section loss. 16"x 2"x 5/16", CS3



02/29/2024

Span 1, bent 2, girder 1 under diaphragm connection at  
bent 2, has 2 small hole in web. Dime size and quarter  
size holes. CS3  
8x12 area around diaphragm, this is the section loss  
area.

### Maintenance Needs

Date Reported: 02/22/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

### Deficiency Description

Bottom of caps have steel exposed full length which is form steel not rebar.

Bent #2 cap has 14' area on front face with delaminations and spalls and cracks with exposed rebar with moderate section loss, one piece of rebar has 100% section loss.

Bent #3 cap has 6' area on back face left side and a 4' area on front face left side with delaminations and spalls with exposed rebar with moderate section loss, and 4' of horizontal cracking 4" from bottom near column 2.

Bent #3 cap front face top corner is spalled 1' left of girder #5 no rebar exposed.

Bent 3 cap ahead face has 1' x 2' spall with exposed rebar with moderate section loss and has horizontal crack between columns 4" from bottom and 4' of cracking under girder 4.

Bent #4 cap has 6' area on back face with spalls with exposed rebar with moderate section loss some has had grout smeared over it but rebar is still visible.

Bent #4 cap front face has 2 one foot spalls with exposed rebar with moderate section loss, two 1' delaminations and 4' of horizontal cracking.

### Remarks



Span 2 bent 3 back has large area with exposed reinforcing steel with section loss.



Bent 2 ahead has large area of exposed reinforcing steel with heavy section loss to rebar. CS3



Bent 3, lower ahead face has large longitudinal cracking, and large spalled area above column 1. Both defects CS3



Bent 4, backside, above column 1 has large spalled area with exposed reinforcing steel with section loss. CS3



Bent #2 ahead face cap



Bent #3 cap ahead face



Bent #3 cap back face



Bent #4 cap back face



Bent #4 cap ahead face

### Maintenance Needs

Date Reported: 02/13/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

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### Deficiency Description

Span #3 soffit-under surface has 15 square feet of spalls with rebar exposed with moderate section loss.  
Span #3 soffit-under surface at bent #3 has a form left in place.

### Remarks

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Span #3 soffit-under surface



Span #3 soffit-under surface.

### Maintenance Needs

Date Reported: 02/20/2014

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Approach

### Deficiency Description

Abutment #1 left side drain stopped up pipe and has been disconnected.

Abutment #1 right side drain is broken and washing out slope.

Abutment #2 left side drain is broken and washing out slope.

Abutment #2 right side drain is broken loose and washing slope.

### Remarks



Bent 5, right side drain.



Bent 5, left side drain is broken and washing out slope.



Bent 1, left side drain stopped up pipe and has been disconnected.



Bent 1, right side drain is broken and washing out slope.

### Maintenance Needs

Date Reported: 02/13/2018

Priority: C - Important

Type of Work: Deck Repair

Status: Open

Component: Element

### Deficiency Description

Deck Repair - All spans have unsealed cracks, delaminated areas, spalling, and exposed rebar with section loss.

### Remarks



Bent 5 has spalling all the way across back wall, with exposed reinforcing steel in areas. CS3 Spalling, and exposed rebar.



Span 4, right lane has large spalls . CS3



Span 4 has scattered areas of spalls/delam. CS3



Span 3, right lane has spall next to shoulder. CS3



Span 2, left lane has large spalled areas. CS3



Span 2, left lane has large spalled areas. CS3



Span 1, left lane has spalling with exposed reinforcing steel with section loss. CS3



Span #4 has 20 square feet of shallow spalling near or in gutters.



Span #3 has 8 square feet of small spalls with no rebar exposed.



Span #2 has 6 square feet of small spalls with no rebar exposed.



Typical deck cracks.

### Maintenance Needs

Date Reported: 02/12/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Miscellaneous

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### Deficiency Description

Abutment #2 slope near top both sides have holes going under concrete slope.  
Abutment #2 left slope pavement has settled 2".

### Remarks

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Bent 5, left slope pavement has settled 2".



Bent 5 slope near top both sides have holes going under concrete slope.

### Maintenance Needs

Date Reported: 02/12/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

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### Deficiency Description

Bent #2 right shoulder top plate has a 4" area with 100% section loss.

Bent #3 left shoulder top plate has a 6" long area and several small areas across joint with 100% section loss two feet total.

Bent #5 left shoulder top plate has a 6" area with 100% section loss.

### Remarks

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Bent #3 joint left side



Bent #2 joint right side



Bent #5 left shoulder top plate has a 4" area with 100% section loss.



Bent #3 left shoulder top plate has a 6" long area and several small areas across joint with 100% section loss two feet total.



Bent #2 right shoulder top plate has a 6" area with 100% section loss.

### Maintenance Needs

**Date Reported:** 02/09/2022

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Approach

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### Deficiency Description

Abutment #2 right side mid ways down approach rail has collision damage with three connecting blocks broken and one connecting bolt pulled out of rail.

### Remarks

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**02/08/2022**

Bent 5, right side, mid ways down approach rail has collision damage with three connecting blocks broken and one connecting bolt pulled out of rail.

## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	Yes
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	Yes
A-64 - Vegetation Removal Requested	No
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

### A-54 - Sealable Deck Cracks (Yes)

This deck is in poor condition and needs to be sealed. This structure needs a new deck.



Typical photo of span 2

**A-55 - Deck Washing Needed (Yes)**

The gutter lines in all spans have dirt and debris.



Deck washing need in all spans.

**A-56 - Joint Cleaning/Flushing Needed (No)**

**A-57 - Girder End and Bearing Painting Needed (Yes)**

All beam ends, and bearings need to be sandblasted and painted after holes in girders are repaired.



Bent 5 typical condition of fixed bearings. CS3  
This is typical condition of all bearings



Span 1, Bent 2, girder 4 in haunch area has a 7 1/2"x1" hole. CS3

**A-58 - Cap Cleaning/Flushing Needed (Yes)**

All interior caps have dirt and debris.



Bent 3 ahead, right side has large spall near bearing area.CS3

**A-59 - Joint Repair Needed (Yes)**

Assembly joints are in poor condition and need to be replaced.



Bent 2 assembly joint has holes rusted on both shoulders. CS4 2':  
CS3 2' corrosion.



Bent 3 assembly joint has holes rusted 10' CS4: 3' CS3



Bent 4 right side assembly joint has corrosion with heavy  
section loss. Both shoulders CS3

**A-60 - Full Girder Painting Needed (No)**

**A-61 - Polymer Overlay Advised (No)**

Deck has deteriorated to much.

**A-62 - Hydro and LMC Advised (No)**

Deck has deteriorated to much.

**A-63 - Missing/Incorrect Log Mile Signage (Yes)**



No log mile sign

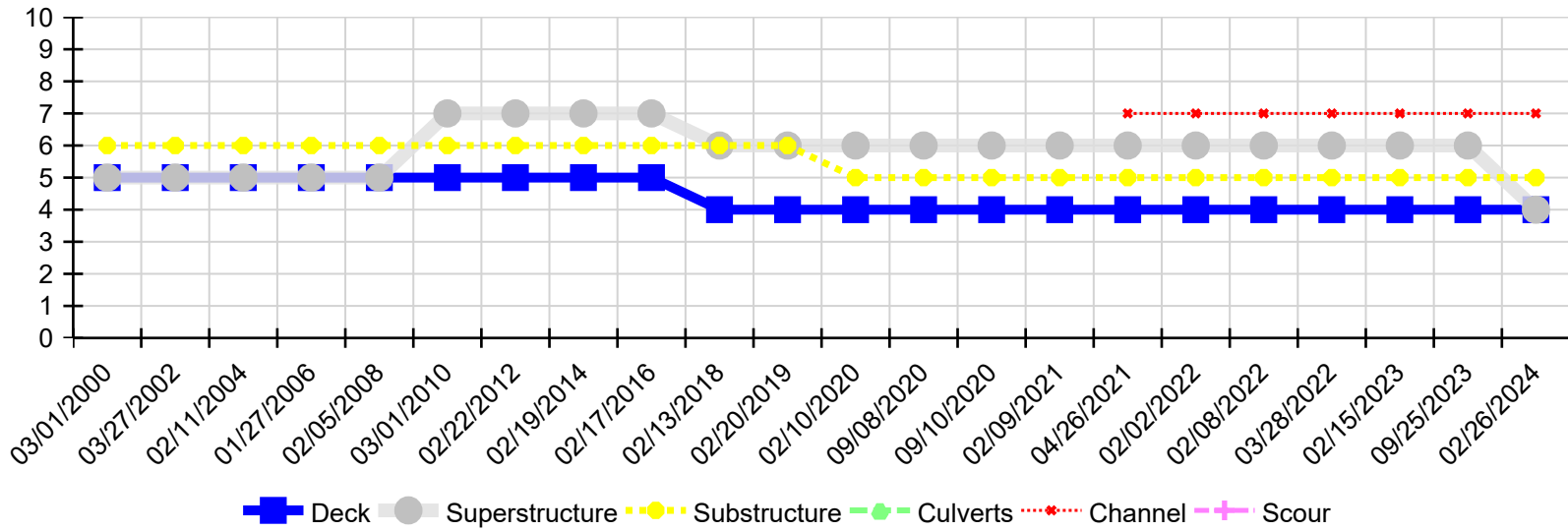
**A-64 - Vegetation Removal Requested (No)**

**A-65 - Clogged deck drains?**

**A-66 - Approach minor pothole/leveling needed**



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/26/2024	4	4	5	N	7	N
09/25/2023	4	6	5	N	7	N
02/15/2023	4	6	5	N	7	N
03/28/2022	4	6	5	N	7	N
02/08/2022	4	6	5	N	7	N
02/02/2022	4	6	5	N	7	N
04/26/2021	4	6	5	N	7	N
02/09/2021	4	6	5	N	N	N
09/10/2020	4	6	5	N	N	N
09/08/2020	4	6	5	N	N	N
02/10/2020	4	6	5	N	N	N
02/20/2019	4	6	6	N	N	N
02/13/2018	4	6	6	N	N	N
02/17/2016	5	7	6	N	N	N
02/19/2014	5	7	6	N	N	N
02/22/2012	5	7	6	N	N	N
03/01/2010	5	7	6	N	N	N
02/05/2008	5	5	6	N	N	N
01/27/2006	5	5	6	N	N	N
02/11/2004	5	5	6	N	N	N
03/27/2002	5	5	6	N	N	N
03/01/2000	5	5	6	N	N	N