



Latitude:35.27395, Longitude:-94.42864

Route:253 Section:02 Log:1.56

Arnold Road ID:65x253x2xA, Arnold Log mile:1.462

District 04, 131 - Sebastian County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

### Bridge Posting Information

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

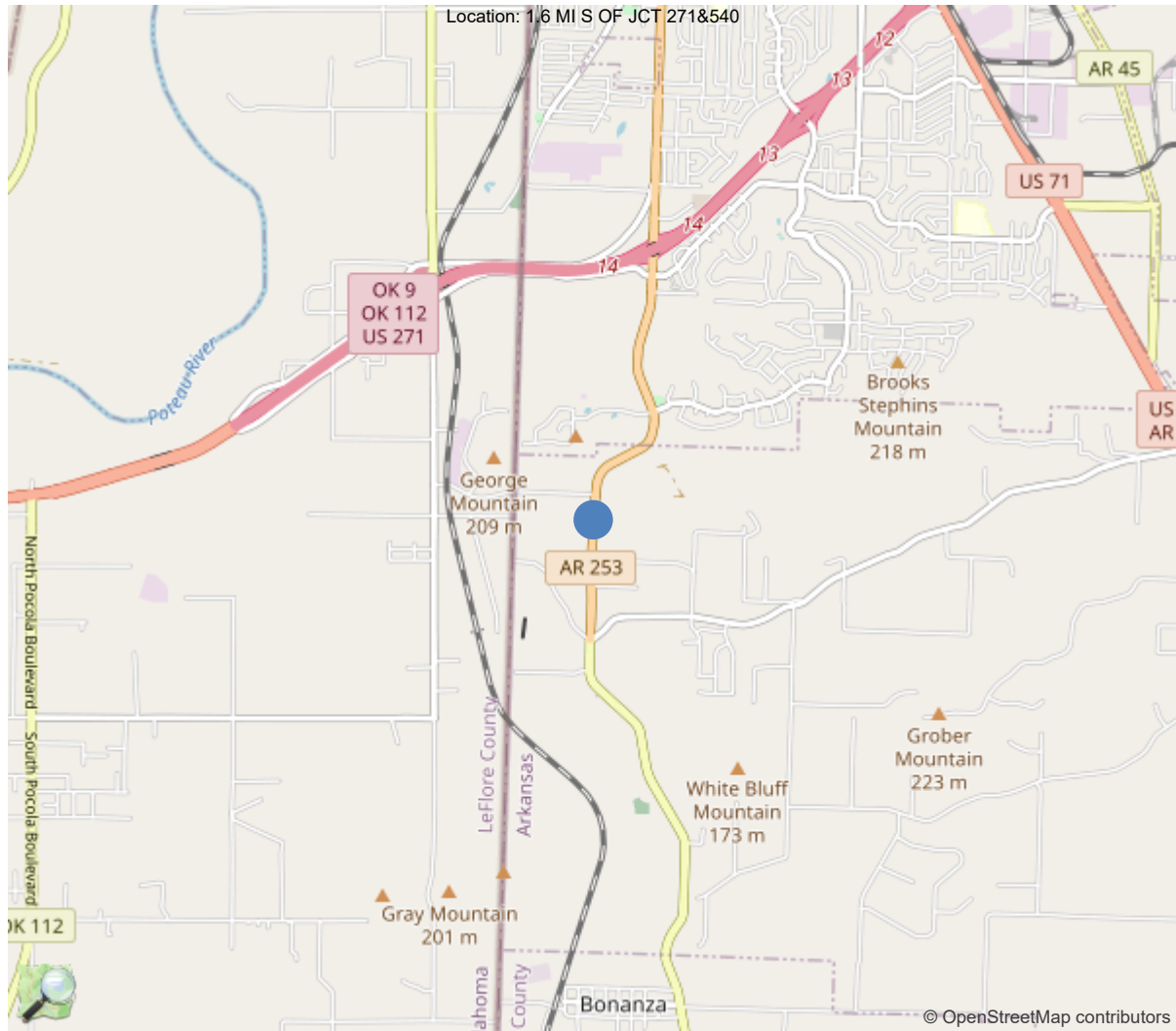
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	23		
Code 9 (31 Tons)	34		
Code 5 (40 Tons)	41		

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



35.27395, -94.42864



Asset #X1025(Routine)

State Highway 253 over Cedar Creek-Seb. Co.

Location: 1.6 MI S OF JCT 271&amp;540

Team Lead: Bob McEntyre Inspection Date: 01/08/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	X1025
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	131 - Sebastian County
(4) Place Code	0
(6) Features Intersected	Cedar Creek-Seb. Co.
(7) Facility Carried	State Highway 253
(9) Location	1.6 MI S OF JCT 271&540
(11) Mile Point	1.56 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.27395
(17) Longitude	-94.42864
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1 - Concrete
Type	19 - Culvert
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	N - Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N - Not applicable (applies only to stru
Type of Membrane	N - Not applicable (applies only to stru
Type of Deck Protection	N - Not applicable (applies only to stru
AGE AND SERVICE	
(27) Year Built	2000
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	9100
(30) Year of ADT	2018
(109) Truck ADT	2 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	7 ft
(49) Structure Length	23 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	110 ft
(32) Approach Roadway Width (W/Shoulders)	24 ft
(33) Bridge Median	0 - No median
(34) Skew	15 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	26.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(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	16 - Urban Minor Arterial
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(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 structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	7
(62) Culverts	6
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	27
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	16
(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	N
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	8 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	15815
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	01/08/2024		
(91) Frequency	24		
(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: Bob McEntyre, Inspection Date: 01/08/2024

IDENTIFICATION	
B.ID.01 Bridge Number	X1025
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	131 - Sebastian County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	04 - District 04
B.L.05 Latitude	35.27395
B.L.06 Longitude	-94.42864
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	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
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	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	7
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

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

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Substructure Condition	
B.C.05 Bridge Railing Condition	N - NOT APPLICABLE - Component
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	

Team Lead: Bob McEntyre, Inspection Date: 01/08/2024

SPAN SETS			
<b>C1</b>			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	
B.SP.05 Span Continuity	7 - Buried	B.SP.11 Deck Protective System	
B.SP.06 Span Type	F02 - Frame - four-sided	B.SP.12 Deck Reinforcing Protective System	
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	

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	U - Unknown
B.SB.04 Substructure Type	A01 - Abutment - cantilever/wa	B.SB.07 Foundation Protective System	U - Unknown

SUBSTRUCTURE SETS			
<b>P1</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	U - Unknown
B.SB.04 Substructure Type	P01 - Pier - wall	B.SB.07 Foundation Protective System	U - Unknown

WATERWAY FEATURES			
<b>W1</b>			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	Cedar Creek	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date

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



Asset #X1025(Routine)

State Highway 253 over Cedar Creek-Seb. Co.

Location: 1.6 MI S OF JCT 271&540

Team Lead: Bob McEntyre Inspection Date: 01/08/2024

### General Observation

01/08/2024 - RSM & SPC: Routine Inspection conducted this date. See element notes for documentation.

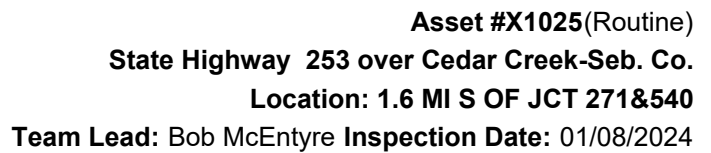
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**61 - Channel/Channel Protection** (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.) Channel has drift accumulation at the inlet end lodged against the culvert that restricts channel flow and promotes additional drift accumulation.

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**62 - Culverts** (6 - Deterioration or initial disintegration, minor chloride contamination, cracking with some leaching, or spalls on concrete or masonry walls and slabs. Local minor scouring at curtain walls, wingwalls or pipes. Metal culverts have a smooth curvature, non-symmetrical shape, significant corrosion or moderate pitting.) 01/08/2024 - RSM & SPC: The culvert is in satisfactory condition with vertical and diagonal cracking in the walls and transverse cracking in the top slab with moderate efflorescence. The exterior walls have some spalling at the wing wall junctures.

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Elevation looking West



Inventory 1 looking South



Side drainage ditch paving on Northwest embankment is undermined.



Driving surface



Channel has drift accumulation lodged against the inlet end of culvert that restricts channel flow and promotes additional drift accumulation.



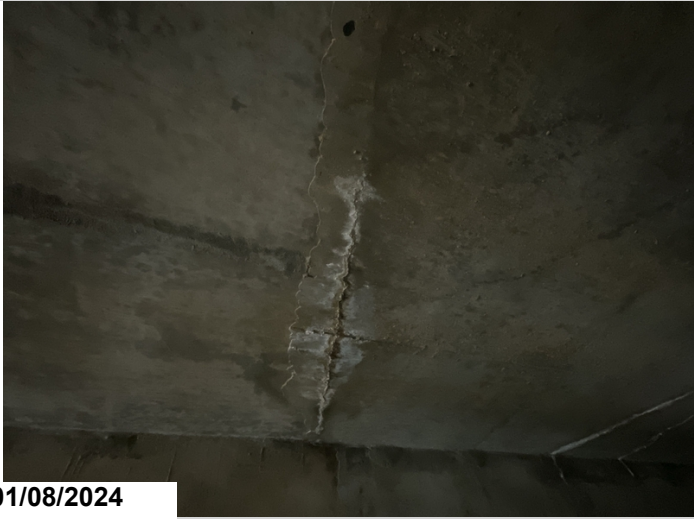
Inlet end



Barrel 3 interior



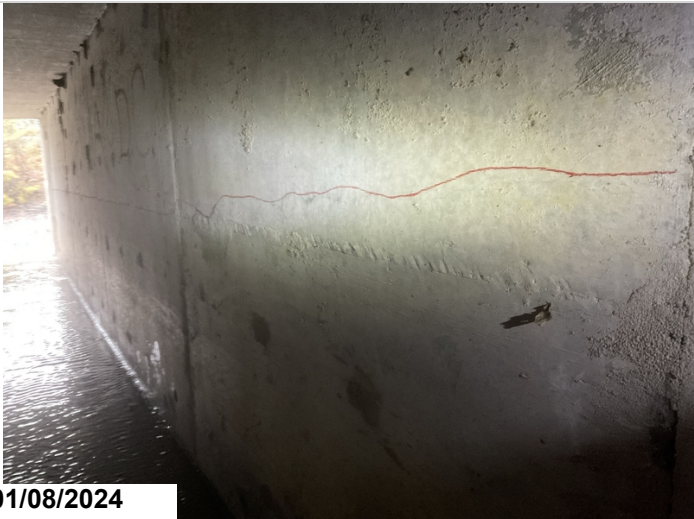
Barrel 3 exterior wall-Shallow spalls with exposed reinforcing steel



Barrel 2 top slab at construction joint-Staining



Barrel 2 interior



Barrel 1 exterior wall on right side-Hairline horizontal cracking



Tow wall exposed on right side



01/08/2024

Barrel 1 top slab-Transverse cracks with efflorescence



01/08/2024

Barrel 1 exterior wall on left side-Spalling with exposed reinforcing steel at wing wall juncture



01/08/2024

Barrel 1 exterior wall on left side-Delaminated area at wing wall juncture



01/08/2024

Barrel 1 interior



Barrel # 1 left wing wall has three full height vertical cracks and spalling with exposed reinforcing steel at the culvert juncture.

**Maintenance Needs**

**Date Reported:** 01/08/2024

**Priority:** C - Important

**Type of Work:** Channel Work/Drift Removal

**Status:** Open

**Component:** Channel

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**Deficiency Description**

Channel -

Channel has drift accumulation lodged against the inlet end of culvert that restricts channel flow and promotes additional drift accumulation.

**Remarks**

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**01/08/2024**

Channel has drift accumulation lodged against the inlet end of culvert that restricts channel flow and promotes additional drift accumulation.

### Maintenance Needs

**Date Reported:** 04/11/2012

**Priority:** D- Routine

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

**Status:** Monitor

**Component:** Culverts

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### Deficiency Description

Barrel # 1 Exterior Wall/ Northeast Wing Wall -

Barrel # 1 exterior wall on left side at the wing wall juncture has spalling that exposes reinforcing steel in the upper portion of the wing wall. The base of wall has a 12" delaminated/ spalled area.

### Remarks

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Barrel # 1 exterior wall on left side-Spalling with exposed reinforcing steel at wing wall juncture.



Barrel # 1 exterior wall on left side-Delaminated area at wing wall juncture.



Barrel # 1 exterior wall on left side at the wing wall juncture has spalling that exposes reinforcing steel in the upper portion of the wing wall. The base of wall has a 12" delaminated/ spalled area.

**Maintenance Needs**

**Date Reported:** 01/08/2024

**Priority:** D- Routine

**Type of Work:** Miscellaneous

**Status:** Open

**Component:** Miscellaneous

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**Deficiency Description**

Ditch Paving -  
Ditch paving for side drainage on the Northwest embankment is undermined.

**Remarks**

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Ditch paving for side drainage on the Northwest embankment is undermined.



## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

**A-54 - Sealable Deck Cracks**

**A-55 - Deck Washing Needed**

**A-56 - Joint Cleaning/Flushing Needed**



**Asset #X1025(Routine)**

**State Highway 253 over Cedar Creek-Seb. Co.**

**Location: 1.6 MI S OF JCT 271&540**

**Team Lead: Bob McEntyre Inspection Date: 01/08/2024**

**A-57 - Girder End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

**A-59 - Joint Repair Needed**

**A-60 - Full Girder Painting Needed**

**A-61 - Polymer Overlay Advised**

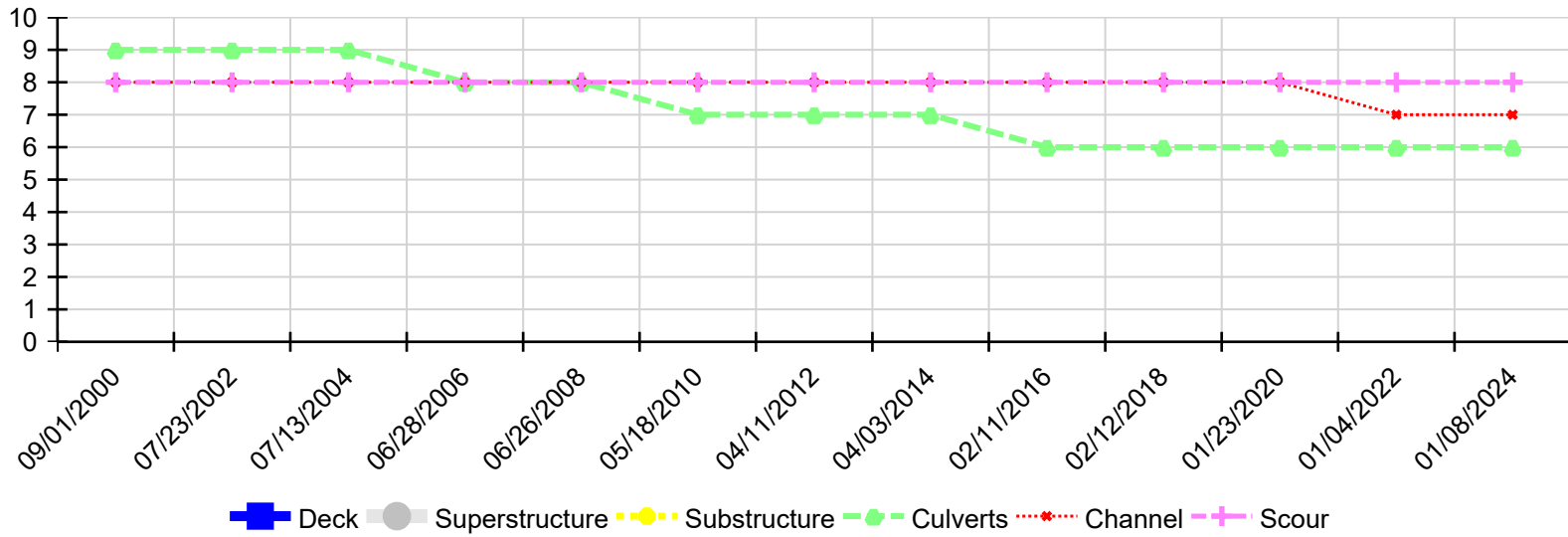
**A-62 - Hydro and LMC Advised**

**A-63 - Missing/Incorrect Log Mile Signage**

**A-64 - Vegetation Removal Requested**



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/08/2024	N	N	N	6	7	8
01/04/2022	N	N	N	6	7	8
01/23/2020	N	N	N	6	8	8
02/12/2018	N	N	N	6	8	8
02/11/2016	N	N	N	6	8	8
04/03/2014	N	N	N	7	8	8
04/11/2012	N	N	N	7	8	8
05/18/2010	N	N	N	7	8	8
06/26/2008	N	N	N	8	8	8
06/28/2006	N	N	N	8	8	8
07/13/2004	N	N	N	9	8	8
07/23/2002	N	N	N	9	8	8
09/01/2000	N	N	N	9	8	8