



Latitude:35.32680, Longitude:-91.78756

Route:16 Section:13 Log:8.61

Arnold Road ID:73x16x13xA, Arnold Log mile:8.588

District 05, 145 - White County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

### Bridge Posting Information

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

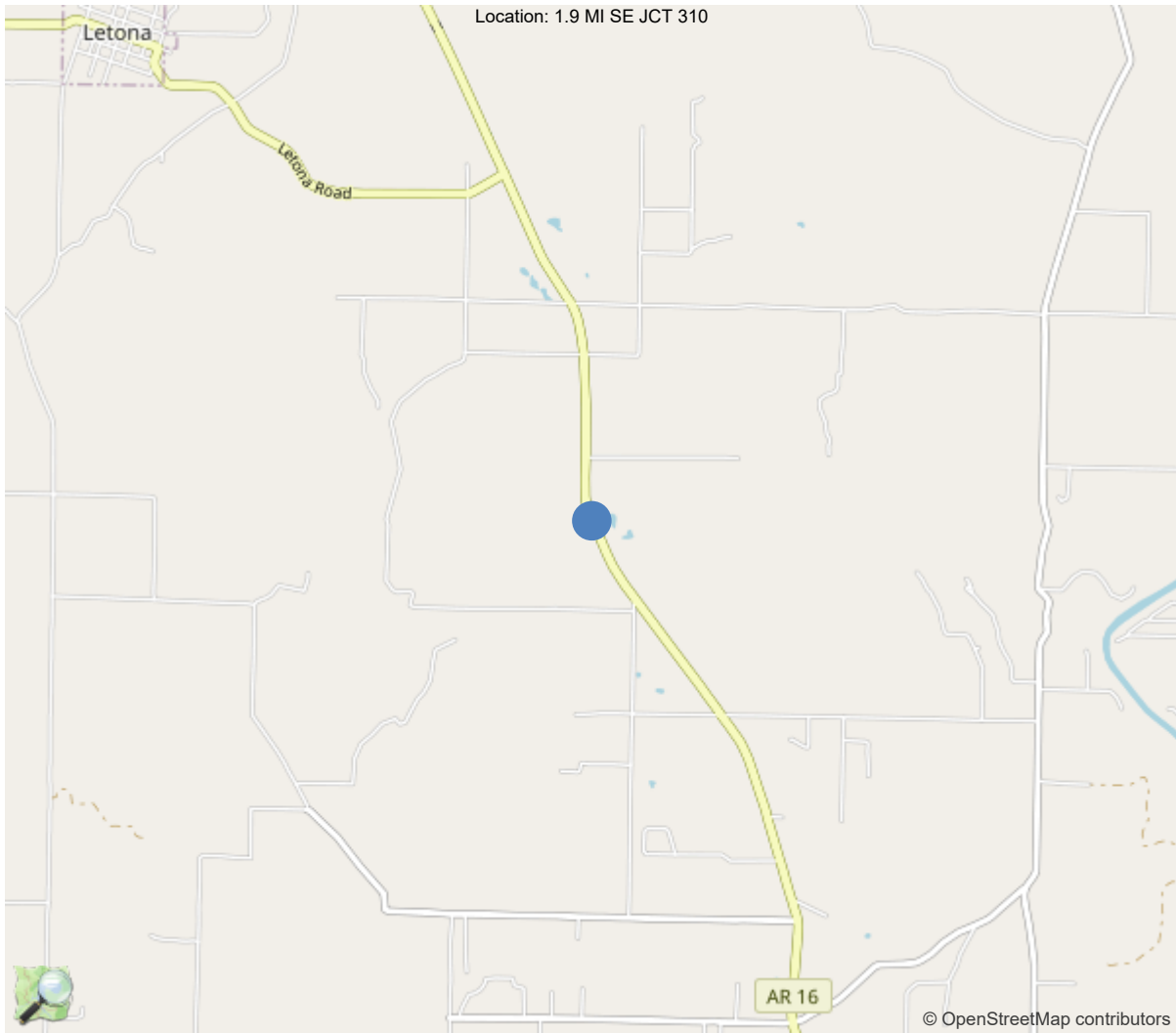
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	42		
Code 5 (40 Tons)	46		

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



35.32680, -91.78756



Asset #05337(Routine)

SH/16 White County over PANTHER CREEK

Location: 1.9 MI SE JCT 310

Team Lead: Kerry Little Inspection Date: 03/18/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05337
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	145 - White County
(4) Place Code	0
(6) Features Intersected	PANTHER CREEK
(7) Facility Carried	SH/16 White County
(9) Location	1.9 MI SE JCT 310
(11) Mile Point	8.61 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000016130
(16) Latitude	35.3268
(17) Longitude	-91.78756
(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	5
(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	1970
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	21 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	60 ft
(49) Structure Length	302 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	37.8 ft
(32) Approach Roadway Width (W/Shoulders)	26.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	35.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 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	6 - Rural 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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	48
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	29
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(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	8537
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/18/2024		
(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.			





Asset #05337 (Routine)

SH/16 White County over PANTHER CREEK

Location: 1.9 MI SE JCT 310

Team Lead: Kerry Little Inspection Date: 03/18/2024

#### General Observation

Elevation with Log Mile running to the Right.  
Construction Job 5610.

---

#### 58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Deck is in overall satisfactory condition with minor spalls, efflor. cracks and abrasion.

---

#### 59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Superstructure is in overall satisfactory condition with some rust & section loss to ends of girders. Remaining area of girders are in good shape.

---

#### 60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Substructure is in overall good condition with a few minor cracks.

---

#### A-51 - Inspection Direction (1 - N to S)

Roadway with Log Mile running North to South.

---



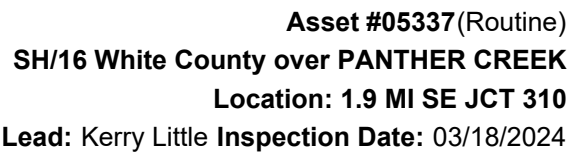
Asset #05337(Routine)

SH/16 White County over PANTHER CREEK

Location: 1.9 MI SE JCT 310

Team Lead: Kerry Little Inspection Date: 03/18/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10872	5243	5064	565	0
1080	Delamination/Spall/Patched Area	SF	724	0	712	12	0
1120	Efflorescence/Rust Staining	SF	11	0	11	0	0
1130	Cracking (RC and Other)	SF	2294	0	1741	553	0
1190	Abrasion/Wear (PSC/RC)	SF	2600	0	2600	0	0
(12) See Form III Deck cracking @ all Spans. Debris in gutter lines. Minor abrasion to deck.							
107	Steel Open Girder/Beam	LF	1800	1633	43	124	0
1000	Corrosion	LF	167	0	43	124	0
515	Steel Protective Coating	SF	13424	12180	0	320	924
3440	Effectiveness (Steel Protective Coatings)	LF	1244	0	0	320	924
(107) See Form III Rust/corrosion, some with minor/moderate section loss to web below paving haunch. Some girders have rust/corrosion to web @ diaphragm connection, some have holes.							
205	Reinforced Concrete Column	EA	8	7	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
(205) See Form III							
215	Reinforced Concrete Abutment	LF	88	74	5	9	0
1120	Efflorescence/Rust Staining	LF	2	0	1	1	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
6000	Scour	LF	8	0	0	8	0
(215) Few cracks to Abutment 1 & 2. 1 crack has rust. Scour to Left side of Abutment 1.							
220	Reinforced Concrete Pile Cap/Footing	LF	10	0	10	0	0
6000	Scour	LF	10	0	10	0	0
(220) Bent 2 - Lt. & Rt. col. has footings exposed. (5'ea.) 10' CS2							
225	Steel Pile	EA	1	0	0	1	0
6000	Scour	EA	1	0	0	1	0
(225) Abut. 1 has erosion to Lt. side with 1 pile exposed.							
234	Reinforced Concrete Pier Cap	LF	140	126	10	4	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1120	Efflorescence/Rust Staining	LF	3	0	2	1	0
1130	Cracking (RC and Other)	LF	9	0	6	3	0
(234) See Form III							
302	Compression Joint Seal	LF	227	0	0	174	53
2320	Seal Adhesion	LF	53	0	0	0	53
2340	Seal Cracking	LF	174	0	0	174	0
(302) See Form III							
311	Movable Bearing	EA	30	0	6	24	0
1000	Corrosion	EA	30	0	6	24	0
515	Steel Protective Coating	SF	60	0	0	30	30
3440	Effectiveness (Steel Protective Coatings)	EA	60	0	0	30	30
(311) See Form III							
313	Fixed Bearing	EA	30	0	6	24	0
1000	Corrosion	EA	30	0	6	24	0
515	Steel Protective Coating	SF	60	32	0	18	10
3440	Effectiveness (Steel Protective Coatings)	EA	28	0	0	18	10
(313) See Form III							
330	Metal Bridge Railing	LF	1208	1208	0	0	0
515	Steel Protective Coating	SF	2416	2416	0	0	0
(330) Vertical cracking to curbs.							



Elevation with log mile going left.



Efflor cracks to Rt ahead side of cap @ bent 1.



Typical corrosion to girders @ end of spans.  
Girder 5, end of span 2.



Overall undersurface @ span 2.





Typical (#3) corrosion to bearings 1 - 5 @ abutment 1.



Overall deck.



Spalls to deck @ span 1.



Roadway with log mile looking south.



### Maintenance Needs

Date Reported: 03/26/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Bridge

### Deficiency Description

All Compression Joint Seals cracked, deteriorated & leak.  
Bent 1 - 22' Joint seal has failed.  
Bent 4 - 15' Joint seal has failed.

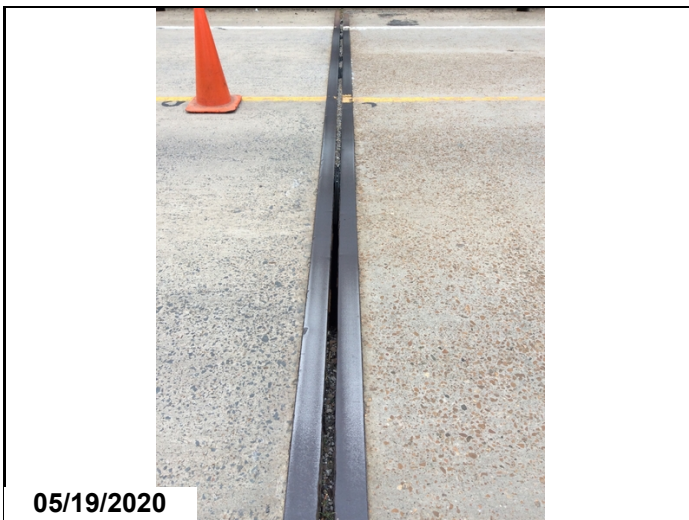
### Remarks



Bent 1 - 22' Joint seal has failed.



All Compression Joint Seals cracked, deteriorated & leak.  
Bent 1 - 6' Joint seal has failed.  
Bent 4 - 8' Joint seal has failed.



Joint Seal @ Bent 1.



Abutment 1 Joint Seal.



**Maintenance Needs**

**Date Reported:** 03/26/2012

**Priority:** C - Important

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

**Status:** Assigned

**Component:** Bridge

---

**Deficiency Description**

Erosion to slope at Abutment 1.

**Remarks**

---



Erosion to slope at Abutment 1.



Erosion to slope at Abutment 1.



Erosion to slope at Abutment 1.

### Maintenance Needs

Date Reported: 03/21/2024

Priority: C - Important

Type of Work: Bearing Repair/Replacement

Status: Open

Component:

---

### Deficiency Description

Rust/pack rust & section loss to moveable Bearing Assemblies at all Spans.

### Remarks

---



Rust/pack rust & section loss to moveable Bearing Assemblies at all Spans.  
Typical rust to bearings 1 - 5 @ abutment 1.



Rust/pack rust & section loss to moveable Bearing Assembly at all Spans.



### Maintenance Needs

Date Reported: 03/21/2024

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Bridge

---

### Deficiency Description

1'x1'x2' down Erosion to edge of roadway to Rt end of abutment 1.

### Remarks

---



1'x1'x2' down Erosion to edge of roadway to Rt end of abutment 1.



1'x1'x2' down Erosion to edge of roadway to Rt end of abutment 1.

### Maintenance Needs

Date Reported: 03/21/2024

Priority: C - Important

Type of Work: Superstructure Repair

Status: Open

Component: Superstructure

---

### Deficiency Description

All spans have areas of corrosion and/or pack rust @ webs & lower flange @ ends of girders.

### Remarks

---



03/26/2024  
Typical corrosion to girders @ end of spans.  
Girder 5, end of span 2.



03/26/2024  
Rust with s/l to web below haunch @ Girder 3 @  
Abutment 1.(#3,



**Maintenance Needs**

**Date Reported:** 03/26/2012

**Priority:** D- Routine

**Type of Work:** Substructure Repair

**Status:** Monitor

**Component:**

---

**Deficiency Description**

Bent 1, Column 2 has spall/honeycomb area on ahead side with 3" rebar exposed.

**Remarks**

---



03/21/2024

Bent 1, Column 2 has spall/honeycomb area on ahead side with 3" rebar exposed.



05/19/2020

Bent 1, Column 2 has spall/honeycomb area on ahead side with 3" rebar exposed.



05/19/2020

Bent 1, Column 2 has spall/honeycomb area on ahead side w/t 3" rebar exposed.

**Maintenance Needs**

**Date Reported:** 03/26/2012

**Priority:** D- Routine

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

**Status:** Monitor

**Component:**

---

**Deficiency Description**

Scour at Bent 2.

**Remarks**

---



Scour at Bent 2.



Scour to bent 2.



### Maintenance Needs

Date Reported: 04/04/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component:

---

### Deficiency Description

Heavy pack rust, section loss to Diaphragms & Diaphragm connection at Spans 2, 3, & 4.

Heavy pack rust, section loss to diaphragm 5 & 6 @ end of span 4.

Holes in Diaphragm at Beginning of Span 2 between Girders 2 - 4 & Span 3 between Girders 2 - 5 at Beginning of Span.

### Remarks

---



Span 3 between Girders 2 & 3  
Beginning of Span.



Holes in Diaphragm at Beginning of Span 2 between  
Girders 2 - 4.  
Beginning of Span 3 between Girders 2 & 3.

**Maintenance Needs**

**Date Reported:** 04/13/2016

**Priority:** D- Routine

**Type of Work:** Approach Leveling/Maintenance

**Status:** Monitor

**Component:**

**Deficiency Description**

Visible settlement to Roadway at Abutment 1 & 2.

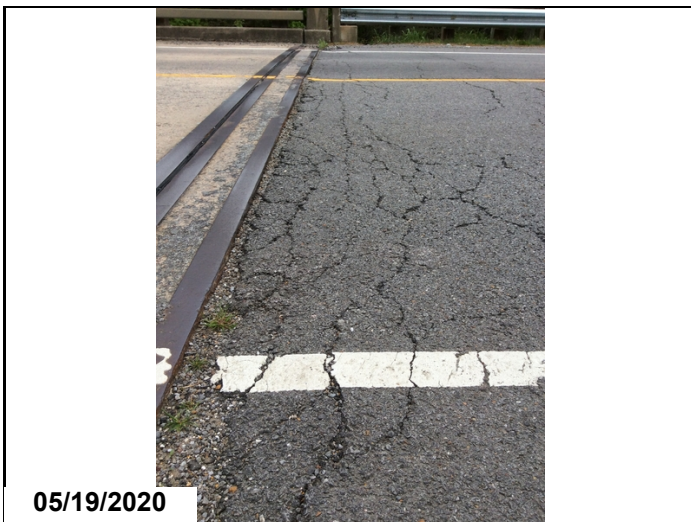
**Remarks**



Visible settlement to Roadway at Abutment 1 & 2.



Visible settlement to Roadway at Abutment 1 & 2.



Visible settlement to Roadway at Abutment 1 & 2.



## 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	Yes
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No

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

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

**A-56 - Joint Cleaning/Flushing Needed (Yes)**



**Asset #05337**(Routine)  
**SH/16 White County over PANTHER CREEK**  
**Location: 1.9 MI SE JCT 310**  
**Team Lead: Kerry Little Inspection Date: 03/18/2024**

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

**A-58 - Cap Cleaning/Flushing Needed (No)**

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

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

**A-61 - Polymer Overlay Advised (Yes)**

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

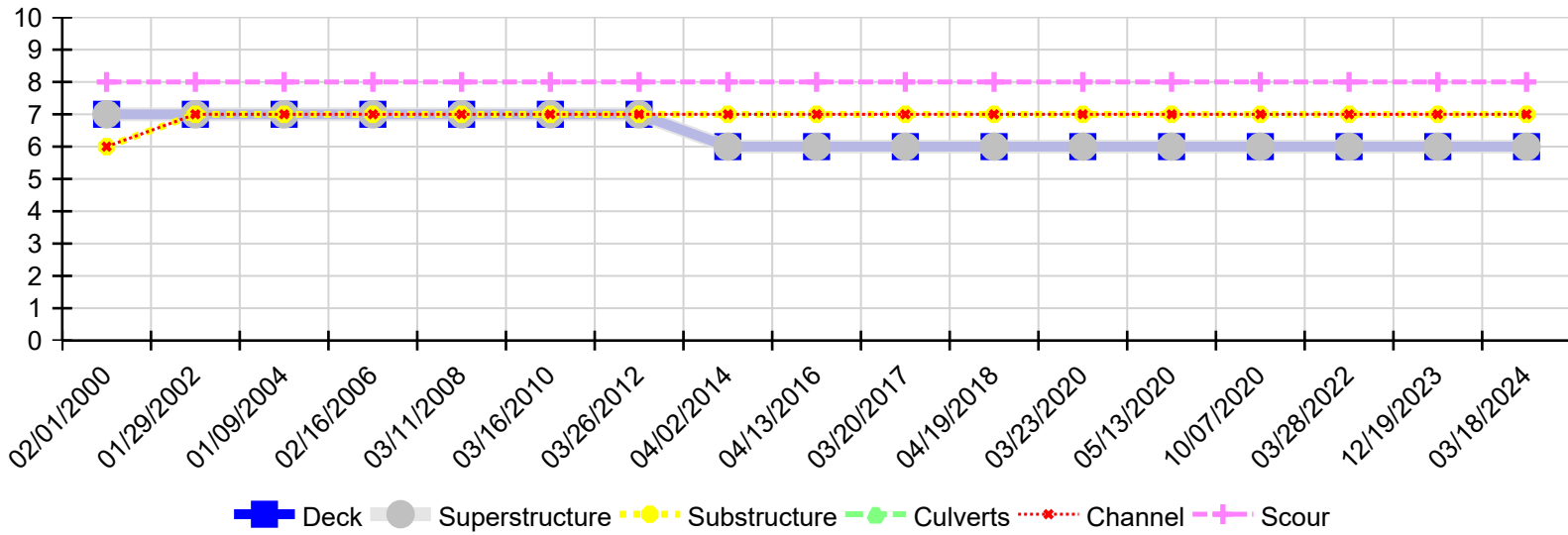
**A-63 - Missing/Incorrect Log Mile Signage (No)**

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





Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/18/2024	6	6	7	N	7	8
12/19/2023	6	6	7	N	7	8
03/28/2022	6	6	7	N	7	8
10/07/2020	6	6	7	N	7	8
05/13/2020	6	6	7	N	7	8
03/23/2020	6	6	7	N	7	8
04/19/2018	6	6	7	N	7	8
03/20/2017	6	6	7	N	7	8
04/13/2016	6	6	7	N	7	8
04/02/2014	6	6	7	N	7	8
03/26/2012	7	7	7	N	7	8
03/16/2010	7	7	7	N	7	8
03/11/2008	7	7	7	N	7	8
02/16/2006	7	7	7	N	7	8
01/09/2004	7	7	7	N	7	8
01/29/2002	7	7	7	N	7	8
02/01/2000	7	7	6	N	6	8