Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Latitude:35.90734, Longitude:-91.29046

Route:25 Section:06 Log:1.45

Arnold Road ID:38x25x6xA, Arnold Log mile:1.435

District 10, 75 - Lawrence County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

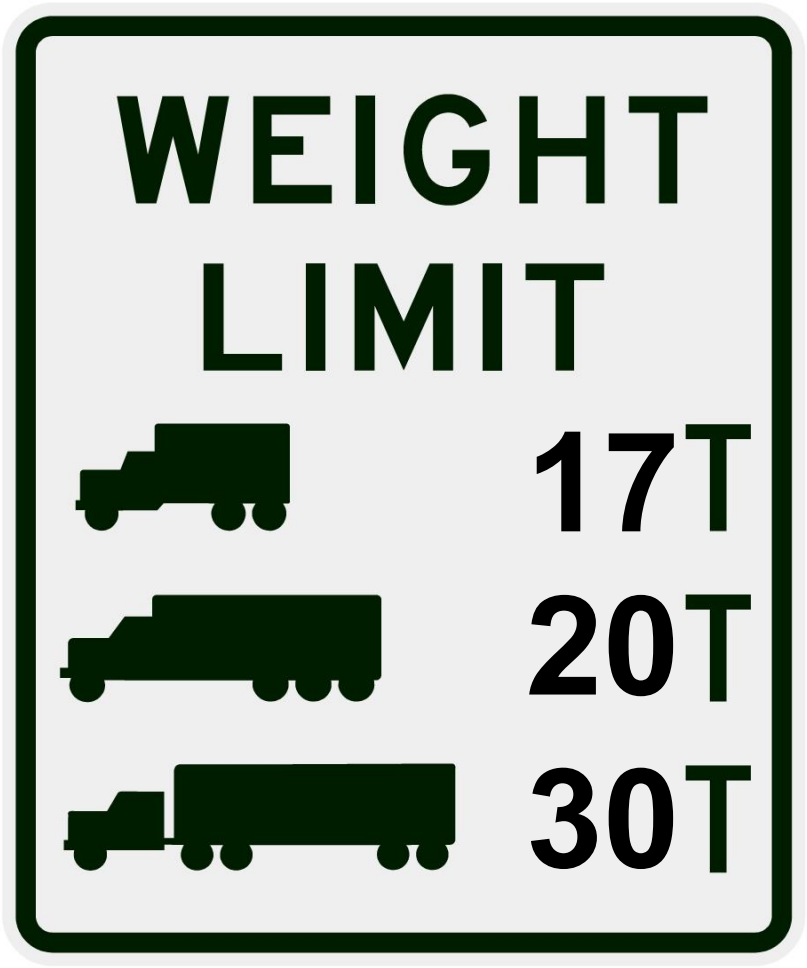
Bridge Posting Information

41 - Structure Open/Posted/Closed: P - Posted for load (may include other restrictions such a temporary bridges which are load posted)

70 - Bridge Posting: 1 - 30.0 - 39.9 % below

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	17	17	17
Code 9 (31 Tons)	20	20	20
Code 5 (40 Tons)	30	30	30

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

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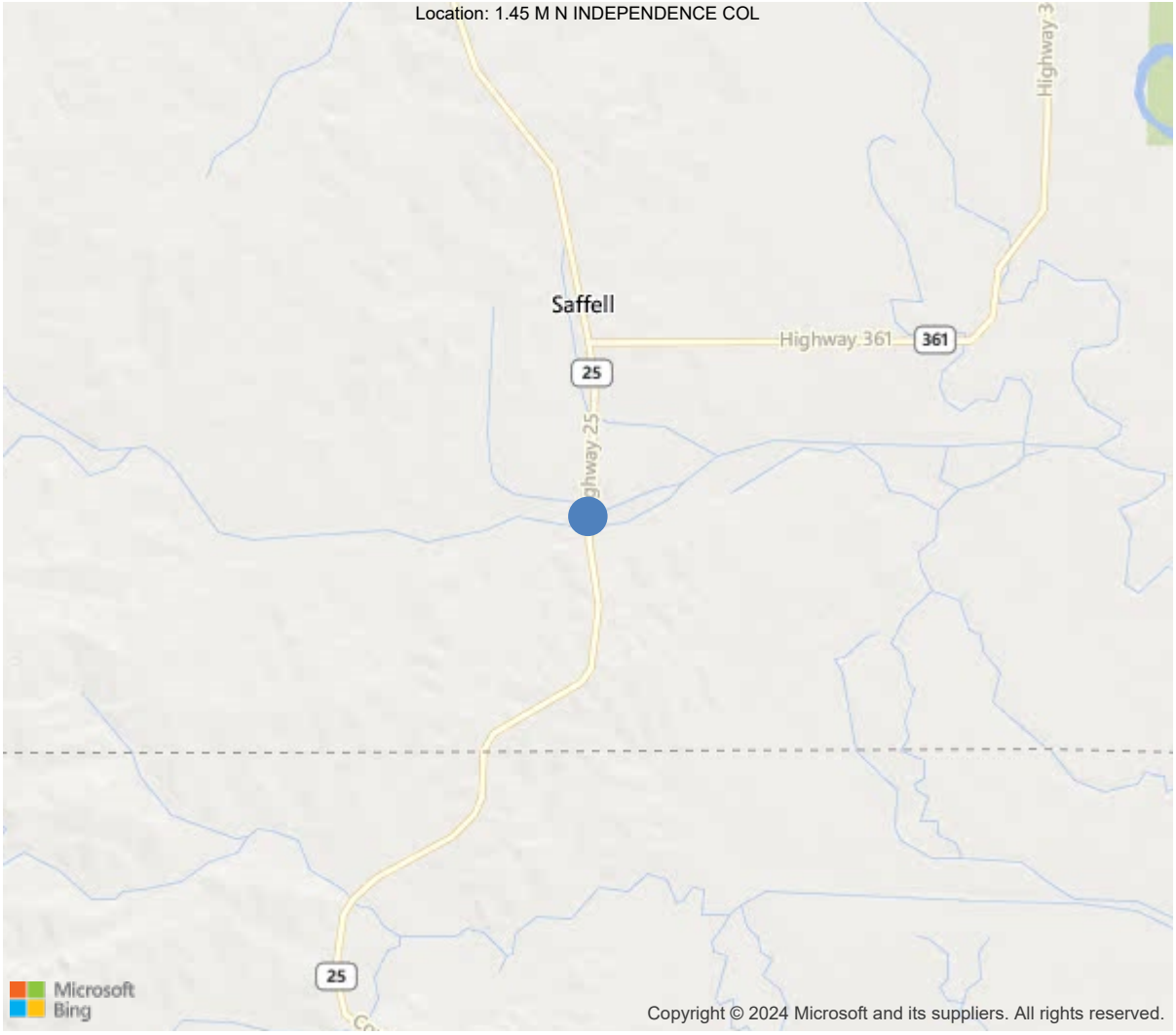

35.90734, -91.29046

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M0604
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	75 - Lawrence County
(4) Place Code	0
(6) Features Intersected	CANEY CREEK RELIEF
(7) Facility Carried	SH 25-06- LM 1.45
(9) Location	1.45 M N INDEPENDENCE COL
(11) Mile Point	1.45 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000025060
(16) Latitude	35.90734
(17) Longitude	-91.29046
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	72
Material	7 - Wood or timber
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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1962
(106) Year Reconstructed	0
(42) Type of Service	19
On	1 - Highway
Under	9 - Relief for waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	1000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	15 ft
(49) Structure Length	46 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24.3 ft
(52) Deck Width Out to Out	25.3 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	24.3 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	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	4
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	2
(64) Operating Rating	
Type	2 - Allowable Stress(AS)
Rating	23
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	
Rating	15
(70) Bridge Posting	1 - 30.0 - 39.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may inclu
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	4
(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	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	70 ft
(94) Bridge Improvement Cost	$ 0
(95) Roadway Improvement Cost	$ 156
(96) Total Project Cost	$ 339
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1087
(115) Year of Future ADT	2028

INSPECTIONS *

(90) Inspection Date			09/14/2023
(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.

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

Asphalt wearing surface was milled and replaced under Job 100974 in 2021.
Right curb has concrete disintegration at spans 1 –3.
Lt and Rt overhangs have numerous cracks with efflorescence. Soffit has cracking with some efflorescence. See elements

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

Timber girders have decay on ends over abutments and a few checks scattered throughout. See elements

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60 - Substructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Timber substructure elements have widespread decay. Some have section loss or are partially hollow. See elements

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61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

brush and vegetation are built up on slopes.

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1164	997	25	142	0
1080	Delamination/Spall/Patched Area	SF	25	0	25	0	0
1120	Efflorescence/Rust Staining	SF	142	0	0	142	0
510	Wearing Surfaces	SF	1118	1118	0	0	0
(12) Asphalt wearing surface was milled and replaced under Job 100974 in 2021. Right curb has concrete disintegration at spans 1 –3. Lt and Rt overhangs have numerous cracks with efflorescence. Soffit has cracking with some efflorescence. (510-12) Asphalt wearing surface was milled and replaced under Job 100974 in 2021.							
111	Timber Open Girder/Beam	LF	690	447	234	9	0
1140	Decay/Section Loss	LF	65	0	61	4	0
1150	Check/Shake	LF	178	0	173	5	0
(111) Timber girders have decay on ends over abutments and a few checks scattered throughout. Span 1 bent 1 girder 8 is decayed and partially hollow over cap. Span 1 girder 7 has a diagonal check along bottom of girder near mid span. Span 3 bent 4 girder 5 has 2' of moderate decay over cap.							
216	Timber Abutment	LF	71	0	63	8	0
1140	Decay/Section Loss	LF	71	0	63	8	0
(216) Bent 1 backwall has broken timbers on bottom and moderate decay throughout. Bent 4 backwall is decayed and has section loss/holes behind piles 2 and 4. Approach roadway is losing some fill through backwall.							
228	Timber Pile	EA	20	2	14	4	0
1140	Decay/Section Loss	EA	9	0	5	4	0
1150	Check/Shake	EA	9	0	9	0	0
(228) Timber piles have checks and areas of core decay. Bent 1 pile 1 was spliced in the past. Bent 1 pile 2 is decayed and hollow. Bent 1 pile 3 top 12” is decayed and hollow with a 3" shell remaining. Bent 1 pile 4 has some core decay. Bent 1 pile 5 is decayed and partially hollow. Bent 2 pile 1 has moderate outside decay and checks. Bent 2 pile 4 was spliced in the past. Bent 2 pile 5 is decayed and partially hollow. Bent 3 pile 4 is decayed and partially hollow. Bent 4 pile 2 is decayed and hollow. Bent 4 pile 3 is decayed and hollow. Bent 4 pile 4 was spliced in the past. Bent 4 pile 5 was spliced in the past.							
235	Timber Pier Cap	LF	101	46	50	5	0

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1140	Decay/Section Loss	LF	5	0	0	5	0
1150	Check/Shake	LF	50	0	50	0	0
(235) All timber caps are doubled over piles 2 -5; only one cap supported by pile 1 at all bents. Bent 1 Rt top cap is decayed with 30% section loss. Cap has areas of top decay. Bent 3 sub-cap has a check for full length of cap. Bent 4 top cap has areas of top decay. Bent 4 sub-cap bottom is decayed and hollow between girders 4 and 5.							
330	Metal Bridge Railing	LF	92	46	46	0	0
1000	Corrosion	LF	46	0	46	0	0
515	Steel Protective Coating	SF	313	156	94	63	0
3440	Effectiveness (Steel Protective Coatings)	LF	157	0	94	63	0
(330) Right approach rail and 2 posts at bent 1 are damaged and leaning away from roadway. Metal rails have minor surface rust. Timber posts have moderate decay.							

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side

Roadway

Ending end

Beginning end

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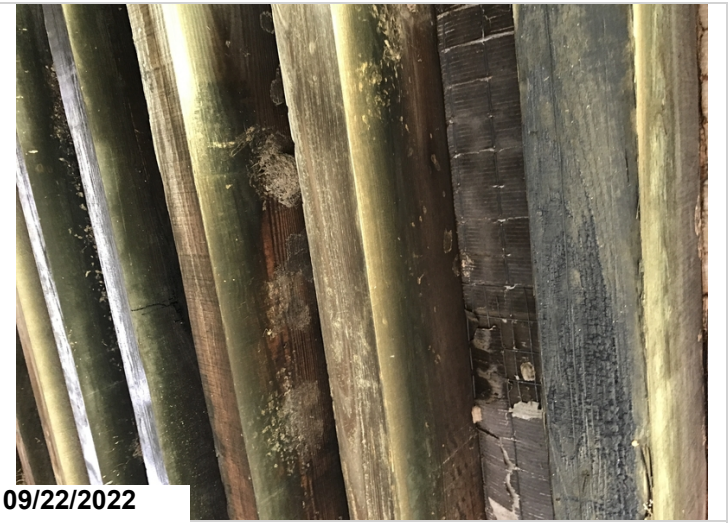

09/22/2022

soffit

09/22/2022

wearing surface

09/20/2021

2021 aerial

09/14/2023

Span 1 girder 7

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09/14/2023

Bent 4 Rt

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SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 10/03/2018

Priority: B - Pressing

Status: Monitor

Type of Work: Piling Repair/Replace

Component: Substructure

Deficiency Description

Bent 1 pile 2 is decayed and hollow.
Bent 1 pile 3 top 12” is decayed and hollow with a 3" shell remaining.

Remarks

Bent 4 Pile 5 Repaired (1/31/2019) JTR
Bent 4 pile 5 has been repaired, see 2019 photo. JFA 10-03-2019

b1 p3&5

b1 p1

Bent 4 pile 3 2020

Bent 1 pile 3 2020

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Bent 4 pile 5 repaired

Bent 4 pile 5

Bent 1 pile 2 2019

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 02/27/2012

Priority: C - Important
Status: Monitor
Type of Work: Piling Repair/Replace
Component: Substructure

Deficiency Description

Bent 1 pile 4 has some core decay.
Bent 1 pile 5 is decayed and partially hollow.
Bent 2 pile 1 has moderate outside decay and checks.
Bent 2 pile 5 is decayed and partially hollow.
Bent 3 pile 4 is decayed and partially hollow.
Bent 4 pile 2 is decayed and hollow.
Bent 4 pile 3 is decayed and hollow.

Remarks

Bent 4 pile 2

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SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 02/27/2012

Priority: C - Important

Status: Monitor

Type of Work: Repair (General)

Component: Substructure

Deficiency Description

Bent 1 Rt top cap is decayed with 30% section loss. Cap has areas of top decay.
Bent 4 top cap has areas of top decay.
Bent 4 sub-cap bottom is decayed and hollow between girders 4 and 5.

Remarks

Bent 1 Rt

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 09/14/2023

Priority: C - Important
Status: Open
Type of Work: Miscellaneous
Component: Approach

Deficiency Description

Right approach rail and 2 posts at bent 1 are damaged and leaning away from roadway.

Remarks

Bent 1 Rt

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 02/27/2012

Priority: D- Routine

Status: Monitor

Type of Work: Repair (General)

Component: Deck

Deficiency Description

Right curb has concrete disintegration at spans 1 –3.
Lt and Rt overhangs have numerous cracks with efflorescence. Soffit has cracking with some efflorescence.

Remarks

Rt curb

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 01/15/2014

Priority: D- Routine

Status: Monitor

Type of Work: Repair (General)

Component: Superstructure

Deficiency Description

Timber girders have decay on ends over abutments and a few checks scattered throughout.
Span 1 bent 1 girder 8 is decayed and partially hollow over cap.
Span 3 bent 4 girder 5 has 2' of moderate decay over cap.

Remarks

Asset #M0604(Routine)
SH 25-06- LM 1.45 over CANEY CREEK RELIEF
Location: 1.45 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 01/15/2014

Priority: D- Routine

Status: Monitor

Type of Work: Repair (General)

Component: Substructure

Deficiency Description

Bent 4 backwall is decayed and has section loss/holes behind piles 2 and 4. Approach roadway is losing some fill through backwall.

Remarks

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

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

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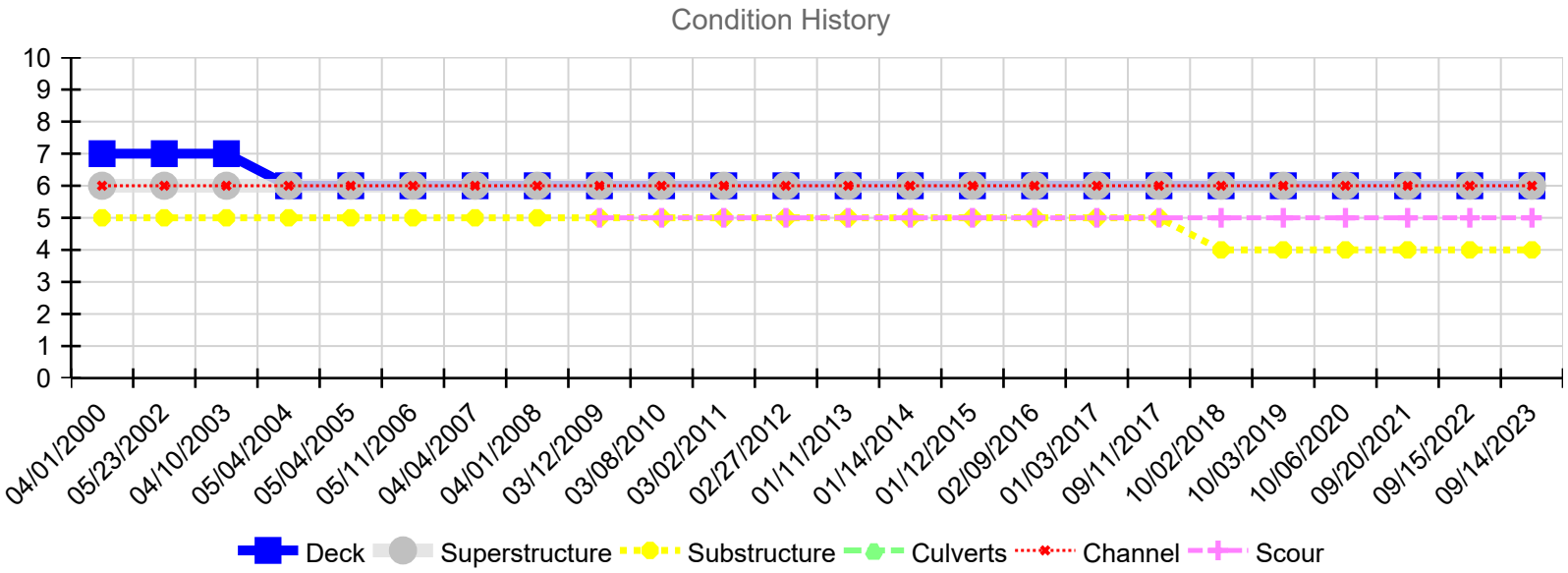

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/14/2023	6	6	4	N	6	5
09/15/2022	6	6	4	N	6	5
09/20/2021	6	6	4	N	6	5
10/06/2020	6	6	4	N	6	5
10/03/2019	6	6	4	N	6	5
10/02/2018	6	6	4	N	6	5
09/11/2017	6	6	5	N	6	5
01/03/2017	6	6	5	N	6	5
02/09/2016	6	6	5	N	6	5
01/12/2015	6	6	5	N	6	5
01/14/2014	6	6	5	N	6	5
01/11/2013	6	6	5	N	6	5
02/27/2012	6	6	5	N	6	5
03/02/2011	6	6	5	N	6	5
03/08/2010	6	6	5	N	6	5
03/12/2009	6	6	5	N	6	5
04/01/2008	6	6	5	N	6	N
04/04/2007	6	6	5	N	6	N
05/11/2006	6	6	5	N	6	N
05/04/2005	6	6	5	N	6	N
05/04/2004	6	6	5	N	6	N
04/10/2003	7	6	5	N	6	N
05/23/2002	7	6	5	N	6	N
04/01/2000	7	6	5	N	6	N