Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Latitude:35.90649, Longitude:-91.29048

Route:25 Section:06 Log:1.39

Arnold Road ID:38x25x6xA, Arnold Log mile:1.376

District 10, 75 - Lawrence County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
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Team Lead: Richard Jones **Inspection Date:** 09/14/2023

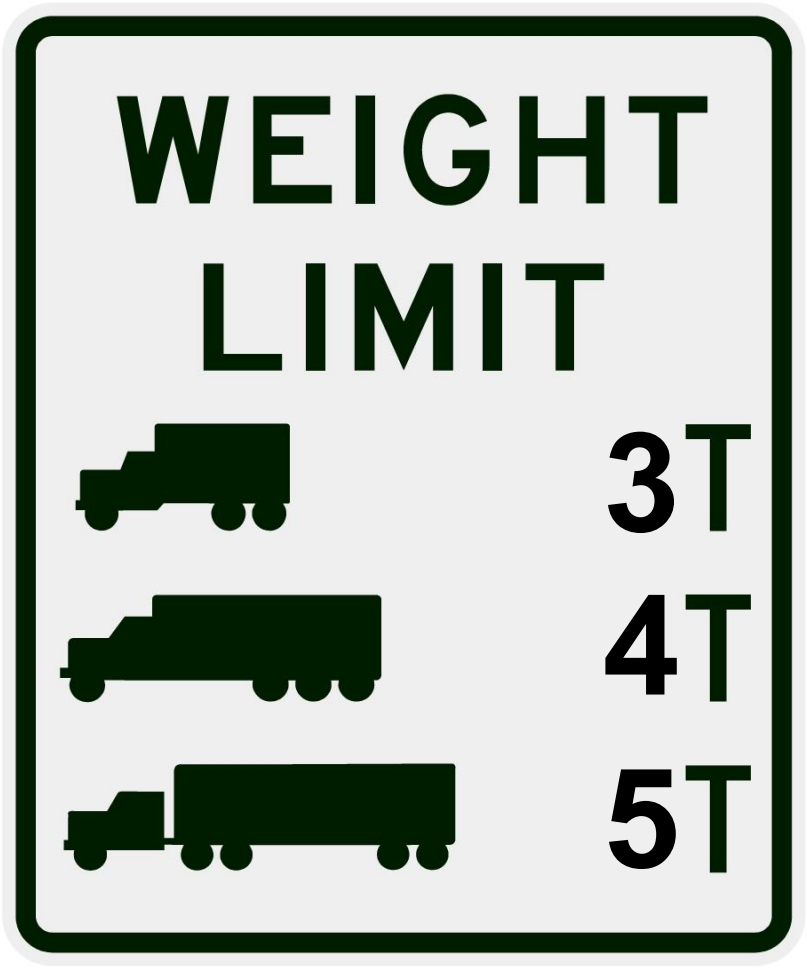
Bridge Posting Information

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

70 - Bridge Posting: 0 - > 39.9% below

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	3	3	3
Code 9 (31 Tons)	4	4	4
Code 5 (40 Tons)	5	5	5

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

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
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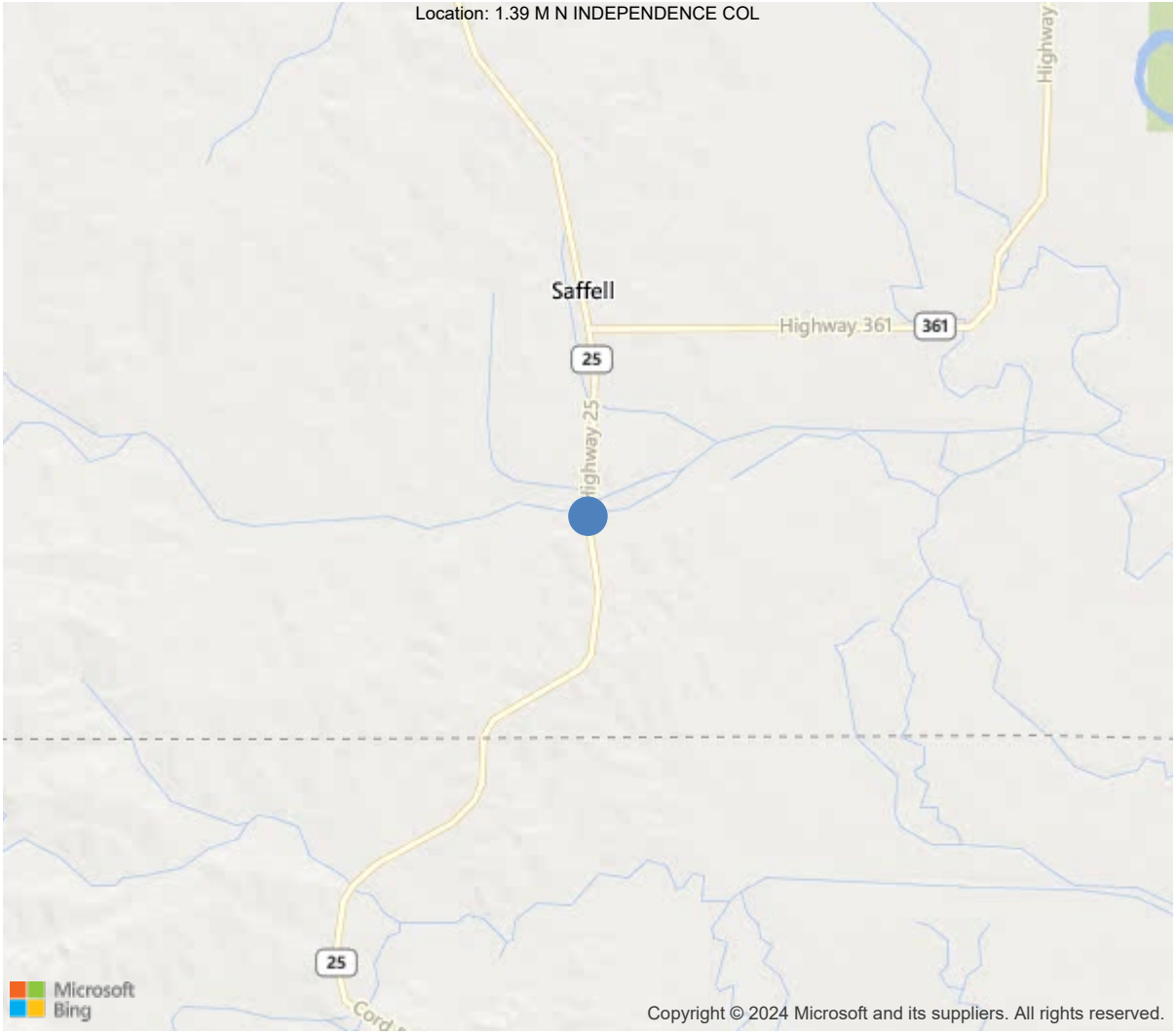
Team Lead: Richard Jones **Inspection Date:** 09/14/2023



35.90649, -91.29048

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M0603
(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
(7) Facility Carried	SH 25-06- LM 1.39
(9) Location	1.39 M N INDEPENDENCE COL
(11) Mile Point	1.39 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000025060
(16) Latitude	35.90649
(17) Longitude	-91.29048
(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	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	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	15
On	1 - Highway
Under	5 - 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	62 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24.6 ft
(52) Deck Width Out to Out	25.5 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	24.6 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	4
(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	4
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	
Rating	0
(70) Bridge Posting	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	87 ft
(94) Bridge Improvement Cost	$ 0
(95) Roadway Improvement Cost	$ 156
(96) Total Project Cost	$ 371
(97) Year of Improvement Cost Estimate	2004
(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.)
Wearing surface was milled and replaced in 2022 under job 100974.

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59 - Superstructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)
Timber girders have areas of advanced decay. See elements

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60 - Substructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)
Timber sub has areas of advanced decay. 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.)
Rip rap placed on slopes in 2010 to repair erosion.
Trees & brush on banks.
Moderate drift buildup at bent 3.

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
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Team Lead: Richard Jones **Inspection Date:** 09/14/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1581	1544	1	36	0
1090	Exposed Rebar	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	36	0	0	36	0
510	Wearing Surfaces	SF	1525	1525	0	0	0

(12) Approach roadway embankment has erosion at bent 1 Rt. Approach rail and edge of pavement has some undermining 12' from end of bridge.
Left curb at span 1 has 12' of concrete disintegration with some exposed rebar.
Soffit has cracking with some leakage through deck over Bents 1 and 5.
Overhangs have several cracks with efflorescence.

(510-12) Wearing surface was milled and replaced in 2022 under job 100974.

111	Timber Open Girder/Beam	LF	930	629	262	8	31
1140	Decay/Section Loss	LF	36	0	29	0	7
1150	Check/Shake	LF	241	0	233	8	0
1160	Crack (Timber)	LF	3	0	0	0	3
1170	Split/Delamination (Timber)	LF	21	0	0	0	21

(111) Timber girders have a few minor checks scattered throughout. Girder ends over end bents have moderate decay.
Span 1 bent 1 girder 11 has 4' of decay. Bottom 2" of girder is hollow over cap with some minor crushing.
Span 1 bent 1 girder 9 decayed and hollow on end.
Span 1 bent 1 girder 13 has a 3' long check in middle of girder.

Span 3 girder 8 has diagonal check near mid span.
Span 3 bent 3 girder 9 has a corner split on the bottom that runs halfway into girder.
Span 3 bent 3 girder 10 has corner splits on the bottom near bents 3 and 4.
Span 3 girder 13 is broken 6' back from bent 4.

Span 4 bent 5 girder 7 is decayed with some crushing over cap. Girder is leaning to one side over cap.
Span 4 bent 5 girder 9 is beginning to crush into cap.
Span 4 bent 5 girder 10 is decayed on the end with some crushing into the cap. Girder is leaning to one side over cap.
Span 4 bent 5 girder 11 is decayed and hollow at end on bottom of girder.
Span 4 girder 14 has an 8' check in bottom of girder.

216	Timber Abutment	LF	69	17	35	17	0
1140	Decay/Section Loss	LF	52	0	35	17	0

(216) Bent 5 timber backwall between piles 1 - 4 has decay with areas of complete section loss. Some embankment settling through backwall. Lt end of backwall has 4' of section loss and losing embankment.

228	Timber Pile	EA	26	2	17	6	1
1140	Decay/Section Loss	EA	10	0	4	5	1
1150	Check/Shake	EA	14	0	13	1	0

(228) Majority of piles have moderate decay and checking.
Bent 1 pile 3 has open checks.
Bent 1 pile 6 is split and hollow with some crushing, (top 3' only of pile visible due to rip rap placement.) Top 3' of pile has open splits up to ½" wide. Pile was noted in the past as being decayed and partially hollow at splice, but splice is not visible due to being

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
buried under rip rap. Bent 2 pile 2 is decayed and partially hollow starting at connection to cross brace extending 3' above connection. Bent 2 pile 3 has 1" of outside decay and some core decay for 3' above ground line. Bent 3 pile 1 has drift piled up. Bent 3 piles 2 and 3 have up to 1" outside decay for 3' above ground line. Bent 3 pile 4 has up to 2" of outside decay with some section loss near sway brace. Bent 3 pile 5 was spliced in the past. Bent 4 pile 1 was spliced in the past but has some outside decay below the splice. Bent 4 pile 2 has 1.25" of outside decay from ground line to x-brace connection. Pile is decayed and partially hollow. Bent 5 pile 1 is decayed and hollow. Bent 5 pile 2 was spliced in the past. Bent 5 pile 3 was spliced in 2019. Bent 5 pile 4 has some outside decay.							
235	Timber Pier Cap	LF	123	15	83	25	0
1140	Decay/Section Loss	LF	16	0	4	12	0
1150	Check/Shake	LF	83	0	79	4	0
1170	Split/Delamination (Timber)	LF	9	0	0	9	0
(235) Timber caps have moderate decay and checking. Bent 2 cap Rt end has some decay and splits at bottom. Bent 3 cap top corner on ahead side is split with section loss up to 3" deep from girder 10-14 Bent 4 cap Rt end has a 4' check. Bent 5 cap has 1' of decay with some section loss on Lt and Rt ends. Cap has 1" deep top decay from girder 7- 12.							
304	Open Expansion Joint	LF	74	0	0	74	0
2350	Debris Impaction	LF	74	0	0	74	0
(304) covered with asphalt							
330	Metal Bridge Railing	LF	124	0	124	0	0
1000	Corrosion	LF	97	0	97	0	0
7000	Damage	LF	27	0	27	0	0
515	Steel Protective Coating	SF	397	0	0	0	397
3440	Effectiveness (Steel Protective Coatings)	LF	397	0	0	0	397
(330) Bridge rails have surface rust. Left bridge rail has 25' of minor collision damage. Left rail span 3 has 2 loose posts.							

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Side

Roadway

Load posting at end

Load posting at beginning

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
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Wearing surface

soffit

Bent 5 Rt

Bent 5 Lt

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 09/30/2021

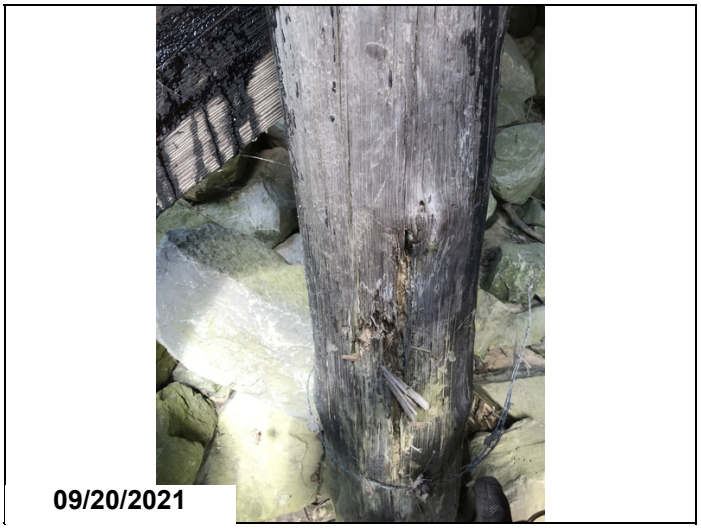
Priority:	A - Safety deficiency; requires prompt action	**Status:**	Assigned
Type of Work:	Piling Repair/Replace	**Component:**	Substructure

Deficiency Description

Bent 4 pile 2 has 1.25" of outside decay from ground line to x-brace connection. Pile is decayed and hollow.

Remarks

2023 - Bent 4 pile 2



2021 Bent 4 pile 2

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 10/02/2018

Priority: B - Pressing

Status: Assigned

Type of Work: Piling Repair/Replace

Component: Substructure

Deficiency Description

Bent 1 pile 6 is split and hollow with some crushing, (top 3' only of pile visible due to rip rap placement.) Top 3' of pile has open splits up to ½" wide. Pile was noted in the past as being decayed and partially hollow at splice, but splice is not visible due to being buried under rip rap.
*Bent 5 pile 3 is decayed, hollow, and split with a 1.5" shell remaining.

Remarks

*Bent 5 pile 3 has been repaired, see 2019 photo. JFA/CWS 10-15-2019

to Dist bridge crew for repair when their priorities will allow. KAW 11-5-18

2023 - Bent 1 pile 6

Bent 1 pile 6 2018

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SH 25-06- LM 1.39 over CANEY CREEK
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Team Lead: Richard Jones **Inspection Date:** 09/14/2023

S3 b3 p4,3,2 looking back towards Bt.1

Bent 5 pile 3 replaced 2019

Bent 5 pile 3

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 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: Superstructure Repair

Component: Superstructure

Deficiency Description

Span 1 bent 1 girder 11 has 4' of decay. Bottom 2” of girder is hollow over cap with some minor crushing.
Span 1 bent 1 girder 9 decayed and hollow on end.
Span 3 bent 3 girder 9 has a corner split on the bottom that runs halfway into girder.
Span 3 bent 3 girder 10 has corner splits on the bottom near bents 3 and 4.
Span 3 girder 13 is broken 6' back from bent 4.
Span 4 bent 5 girder 7 is decayed with some crushing over cap. Girder is leaning to one side over cap.
Span 4 bent 5 girder 9 is beginning to crush into cap.
Span 4 bent 5 girder 10 is decayed on the end with some crushing into the cap. Girder is leaning to one side over cap.
Span 4 bent 5 girder 11 is decayed and hollow at end on bottom of girder.

Remarks

2023 - Span 3 bent 3 girders 9 and 10

2023 - Span 3 girder 13

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

2023 - Span 3 bent 4 girder 13

2023 - Span 4 bent 5 girder 7

2023 - Span 4 bent 5 girders 9 and 10

2023 - Span 4 bent 5 girder 11

Span 1 girder 11 bent 1 2020

Span 3 girder 10 at bent 3 2019

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Span 3 girder 13 near bent 4

Span 3 Girder 13 near Bent 4 2018

Bent 5 Girder 7

Span 4 girder 7 at bent 5 2019

Bent 5 Girder 10

Span 4 girder 11 at bent 5 2019

Bent 5 Girder 11

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 01/18/2011

Priority: C - Important
Status: Monitor
Type of Work: Miscellaneous
Component: Element

Deficiency Description

Left bridge rail has 25' of minor collision damage. Left rail span 3 has 2 loose posts.
Left curb at span 1 has 12' of concrete disintegration with some exposed rebar.

Remarks

Lt curb

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SH 25-06- LM 1.39 over CANEY CREEK
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Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 10/02/2018

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

Deficiency Description

Bent 2 pile 2 is decayed and partially hollow starting at connection to cross brace extending 3' above connection.
Bent 2 pile 3 has 1" of outside decay and some core decay for 3' above ground line.
Bent 3 piles 2 and 3 have up to 1" outside decay for 3' above ground line.
Bent 3 pile 4 has up to 2" of outside decay with some section loss near sway brace.
Bent 4 pile 1 was spliced in the past but has some outside decay below the splice.
Bent 4 pile 2 has 1.25" of outside decay from ground line to x-brace connection. Pile is decayed and partially hollow.
Bent 5 pile 1 is decayed and hollow.
Bent 5 pile 4 has some outside decay.

Remarks

Bent 3 pile 5 was spliced in the past.

2023 - Bent 3 pile 4

2023 - Bent 4 pile 1 below splice

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SH 25-06- LM 1.39 over CANEY CREEK
Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 01/15/2014

Priority: C - Important
Status: Monitor

Type of Work: Substructure Repair
Component: Substructure

Deficiency Description

Bent 3 cap top corner on ahead side is split with section loss up to 3" deep from girder 10-14.
Bent 5 cap has 1' of decay with some section loss on Lt and Rt ends. Cap has 1" deep top decay from girder 7- 12.

Remarks

2023 - Bent 3 cap ahead

Asset #M0603(Routine)
SH 25-06- LM 1.39 over CANEY CREEK
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Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 01/15/2014

Priority: D- Routine

Status: Monitor

Type of Work: Superstructure Repair

Component: Superstructure

Deficiency Description

Girder ends over end bents have moderate decay.

Remarks

2021 - S1 b1 g9-13

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SH 25-06- LM 1.39 over CANEY CREEK
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Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Maintenance Needs

Date Reported: 01/15/2014

Priority: D- Routine

Status: Monitor

Type of Work: Channel Work/Drift Removal

Component: Channel

Deficiency Description

Bent 3 pile 1 has drift piled up.

Remarks

2023 - Bent 3 piles 1 and 2

Bent 3 drift LT SIDE 2019

2017

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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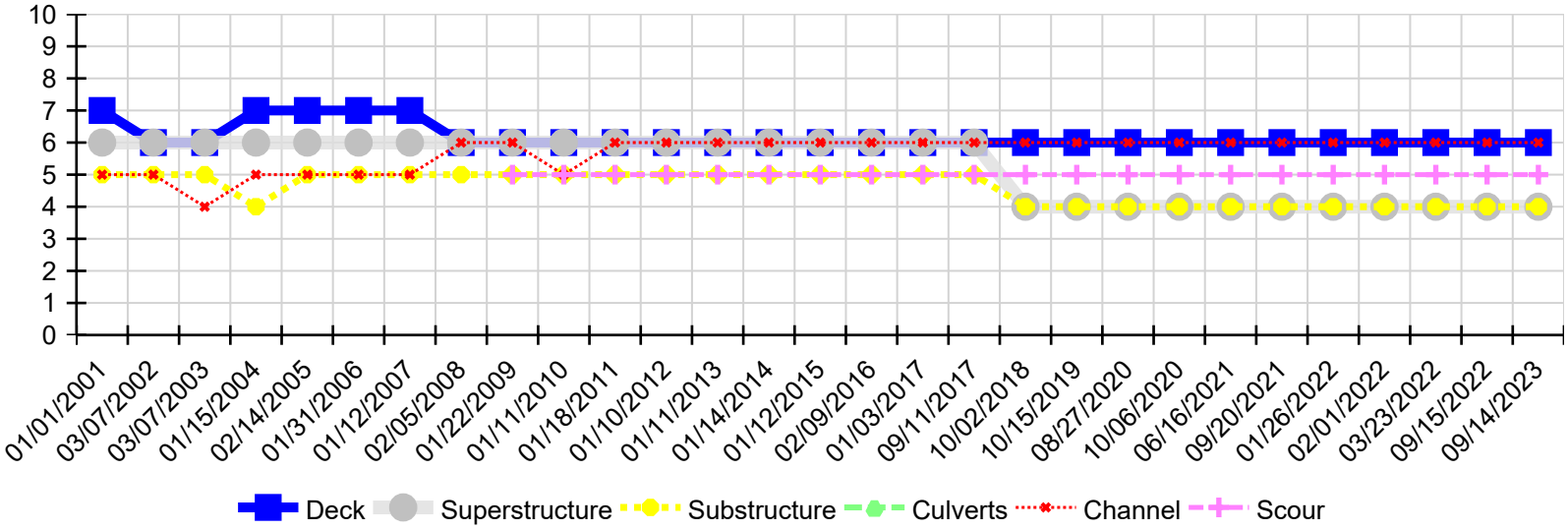
Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/14/2023	6	4	4	N	6	5
09/15/2022	6	4	4	N	6	5
03/23/2022	6	4	4	N	6	5
02/01/2022	6	4	4	N	6	5
01/26/2022	6	4	4	N	6	5
09/20/2021	6	4	4	N	6	5
06/16/2021	6	4	4	N	6	5
10/06/2020	6	4	4	N	6	5
08/27/2020	6	4	4	N	6	5
10/15/2019	6	4	4	N	6	5
10/02/2018	6	4	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
01/10/2012	6	6	5	N	6	5
01/18/2011	6	6	5	N	6	5
01/11/2010	6	6	5	N	5	5
01/22/2009	6	6	5	N	6	5
02/05/2008	6	6	5	N	6	N
01/12/2007	7	6	5	N	5	N
01/31/2006	7	6	5	N	5	N
02/14/2005	7	6	5	N	5	N
01/15/2004	7	6	4	N	5	N
03/07/2003	6	6	5	N	4	N

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Location: 1.39 M N INDEPENDENCE COL
Team Lead: Richard Jones **Inspection Date:** 09/14/2023

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/07/2002	6	6	5	N	5	N
01/01/2001	7	6	5	N	5	N