



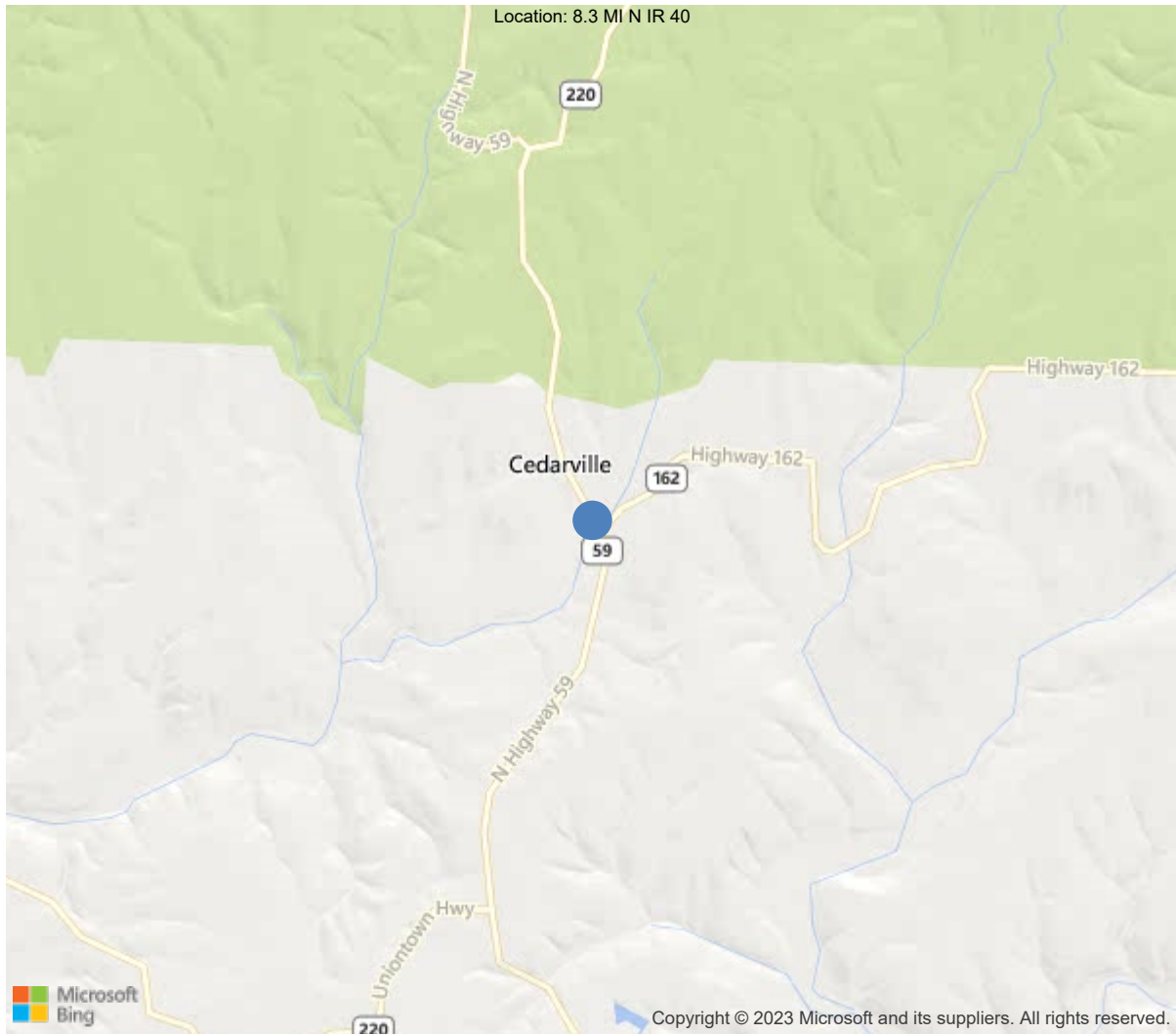
Latitude:35.57080, Longitude:-94.36792

Route:59 Section:05 Log:16.89

Arnold Road ID:17x59x5xA, Arnold Log mile:16.938

District 04, 33 - Crawford County

Owner: 1 - State Highway Agency



35.57080, -94.36792



Asset #06085(Routine)

SH 59-Crawford Co. over Webber Creek

Location: 8.3 MI N IR 40

Team Lead: Jeff Jones, Inspection Date: 03/15/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06085
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	33 - Crawford County
(4) Place Code	0
(6) Features Intersected	Webber Creek
(7) Facility Carried	SH 59-Crawford Co.
(9) Location	8.3 MI N IR 40
(11) Mile Point	16.89 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000059050
(16) Latitude	35.5707990883025
(17) Longitude	-94.3679176223542
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1986
(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	3100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	41.3 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 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 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	6
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(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	5303
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/15/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



Asset #06085(Routine)

District: 04, County: 33 - Crawford County

Team Lead: Jeff Jones, Inspection Date: 03/15/2021

General Observation

03/15/2021 - JCJ & TJL - Routine inspection conducted this date.

03/14/2019 - EJW & JPW - Underwater Type II Inspection - Visual observation and probing during low and clear water conditions indicate that the footings have cover with no apparent scour problems at this inspection.

A-46 - Asset Files

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Team Lead: Jeff Jones, **Inspection Date:** 03/15/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4498	3321	1171	6	0
1080	Delamination/Spall/Patched Area	SF	67	0	66	1	0
1120	Efflorescence/Rust Staining	SF	6	0	1	5	0
1130	Cracking (RC and Other)	SF	384	0	384	0	0
1190	Abrasion/Wear (PSC/RC)	SF	720	0	720	0	0
(38) -Hairline cracking with efflorescence in the edges of the deck, near ends of spans adjacent to the drain openings in the parapet walls. -Light abrasion in the wheel paths. -Sealant in the deck joints is deteriorated and leaks water on the bent caps. -Shallow spalling adjacent to the deck joints. -One longitudinal crack near centerline of Spans # 1, 2, and 3. -One longitudinal crack located approximately 5' Left of centerline is visible from the undersurface of the slabs. -Both edges of the undersurface of Spans # 1, 2, & 3 have longitudinal cracking and delamination along the exterior 3' of the slab soffit. -There are pop-outs visible on the driving surface of the slab.							
205	Reinforced Concrete Column	EA	6	2	3	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
1190	Abrasion/Wear (PSC/RC)	EA	3	0	3	0	0
(205) -Bent # 3, Column # 1 has a 6" spall at the base on the Span # 3 side. -Light abrasion at base of columns.							
215	Reinforced Concrete Abutment	LF	100	98	2	0	0
1120	Efflorescence/Rust Staining	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
(215) There are no apparent noteworthy deficiencies during this inspection.							
220	Reinforced Concrete Pile Cap/Footing	LF	33	33	0	0	0
(220) -Footings have cover and are not exposed.							
234	Reinforced Concrete Pier Cap	LF	87	49	24	14	0
1080	Delamination/Spall/Patched Area	LF	13	0	5	8	0
1090	Exposed Rebar	LF	7	0	1	6	0
1130	Cracking (RC and Other)	LF	18	0	18	0	0
(234) -Stains on the substructure caps indicate that the deck joint sealant leaks. -Bent # 2 bottom of cap adjacent to Column # 2 has a spalled area approximately 1' x 2' with exposed reinforcing steel with initial section loss. -Bent # 2, Span # 1 side of cap, Right keyway, there is a 6' wide X 3' tall X 6" deep concrete spall with exposed reinforcing steel. Exposed reinforcing steel has active corrosion with initial section loss during this inspection. -Bent # 2, Span # 2 side of cap, center keyway has a 24" wide spall with no exposed reinforcing steel and a basketball sized delaminated area at the Left keyway. -There is longitudinal cracking in the undersurface of Bent 2 cap between the columns. -Bent # 3 bottom of cap has a small area with delaminated areas and spalling where slab bolster is beginning to rust.							

Team Lead: Jeff Jones, **Inspection Date:** 03/15/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
301	Pourable Joint Seal	LF	86	0	0	86	0
2310	Leakage	LF	43	0	0	43	0
2350	Debris Impaction	LF	43	0	0	43	0
(301) -Joint seals appear to have lost adhesion and are filled with debris.							
331	Reinforced Concrete Bridge Railing	LF	210	208	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(331) No apparent noteworthy deficiencies during this inspection.							

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SH 59-Crawford Co. over Webber Creek

Location: 8.3 MI N IR 40

Team Lead: Jeff Jones, Inspection Date: 03/15/2021

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Approach roadway facing North.



Deck. Typical.



Bent # 2 slab soffit. Typical.



Bent # 2 cracking and spalling with exposed reinforcing steel.



Bent # 3 joint seal debris impaction.



Span # 1 Bent # 2 Rt spalling with exposed reinforcing steel.



Span # 1 Rt concrete delamination along the Right edge of the slab.



Span # 2 Rt delaminated concrete along the edge of the slab.



Bent # 2 joint seal deterioration with debris impactation.



Elevation



Bent # 2 Span # 2 spalling at the centerline of the Bent.



Roadway



Bent # 2 Lt edge of the slab spalling with efflorescence.



Bent # 3 Rt concrete delamination.



Bent # 3 cracking on the undersurface of the cap.



Expansion joint over Bent # 3. Typical.



Deck. Typical.



Longitudinal crack in Span # 2.



Diagonal cracking in the Left edge of Span # 1 adjacent to Bent # 1.



Delaminated area in the Right soffit of Span # 1.



Bent # 1. Typical.



Bent # 4. Typical.



Right side of Bent # 2. Back face.



Bent # 2. Typical.



Bent # 3. Typical.



Debris accumulation in the joints. Joint over Bent # 3.



Water drains on the cap due to joint leakage.



Bridge railing. Typical.



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SH 59-Crawford Co. over Webber Creek

Location: 8.3 MI N IR 40

Team Lead: Jeff Jones, **Inspection Date:** 03/15/2021

Maintenance Needs

Date Reported: 04/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Deck Joints

Deck joint sealant is deteriorated and leaks water on the substructure caps and allows incompressible material to accumulate between the concrete slabs.

Remarks



Bent # 3 joint seal debris impaction.



Bent # 2 joint seal deterioration with debris impaction.



Expansion joint sealant over Bent # 2.

Date Reported: 04/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Substructure

Bent # 2 reinforced concrete cap has numerous areas of spalling at the key-ways. The right side of Bent # 2 in Span # 1 has a 6'L x 3'T x 6" deep area of concrete spalling that has exposed the reinforcing steel. Exposed reinforcing steel has active corrosion with initial section loss.

Both caps have concrete delaminations and spalls, the undersurface of the caps has cracking with delaminated concrete that is deteriorated. These deficiencies appear to have been caused by water leakage through the deck joints.

Bent # 3 column # 1 has an area of honeycomb that has created an area of concrete section loss approximately 6 inches high and 2 inches deep at the base of the column.

Remarks



Bent # 2 Span # 2 spalling at the centerline of the Bent.



Bent # 3 cracking on the undersurface of the cap.



Bent # 3 Rt concrete delamination.



Bent # 3, Column # 1 has an area of honeycomb at the base on the Span # 3 side.



Span # 1 Bent # 2 Rt spalling with exposed reinforcing steel.



Bent # 2 cracking and spalling with exposed reinforcing steel.



Right side of Bent # 2 cap.

Date Reported: 04/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Deck

The driving surface of the deck has sealable cracking in all spans.

Remarks



One longitudinal crack near centerline of Spans # 1, 2, and 3.



Sealable longitudinal crack in Span # 2.



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Date Reported: 03/14/2019
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

R.C. Slab Span

The undersurface edges of the concrete slabs have large areas of delaminated concrete.

There are cracks and spalls in the edges of the deck over the intermediate bent caps.

Remarks



Span # 1 Rt concrete delamination along the Right edge of the slab.



Span # 2 Rt delaminated concrete along the edge of the slab.



Right soffit of Span # 1.



Left edge of deck over Bent # 2.



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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	



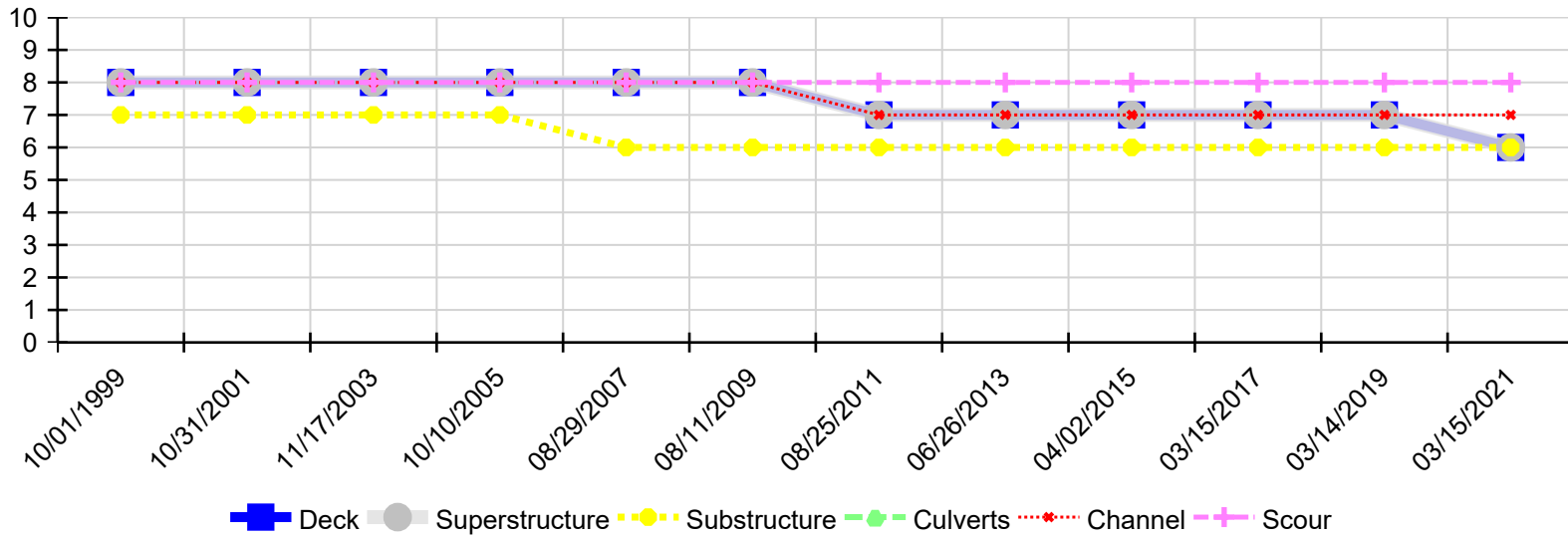
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Location: 8.3 MI N IR 40

Team Lead: Jeff Jones, Inspection Date: 03/15/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/15/2021	6	6	6	N	7	8
03/14/2019	7	7	6	N	7	8
03/15/2017	7	7	6	N	7	8
04/02/2015	7	7	6	N	7	8
06/26/2013	7	7	6	N	7	8
08/25/2011	7	7	6	N	7	8
08/11/2009	8	8	6	N	8	8
08/29/2007	8	8	6	N	8	8
10/10/2005	8	8	7	N	8	8
11/17/2003	8	8	7	N	8	8
10/31/2001	8	8	7	N	8	8
10/01/1999	8	8	7	N	8	8