



Latitude:33.32480, Longitude:-93.85883

Route:13 Section:00 Log:2.6

Arnold Road ID:46xMC13x1xA, Arnold Log mile:2.591

District 03, 91 - Miller County

Owner: 2 - County Highway Agency

Bridge Posting Information

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

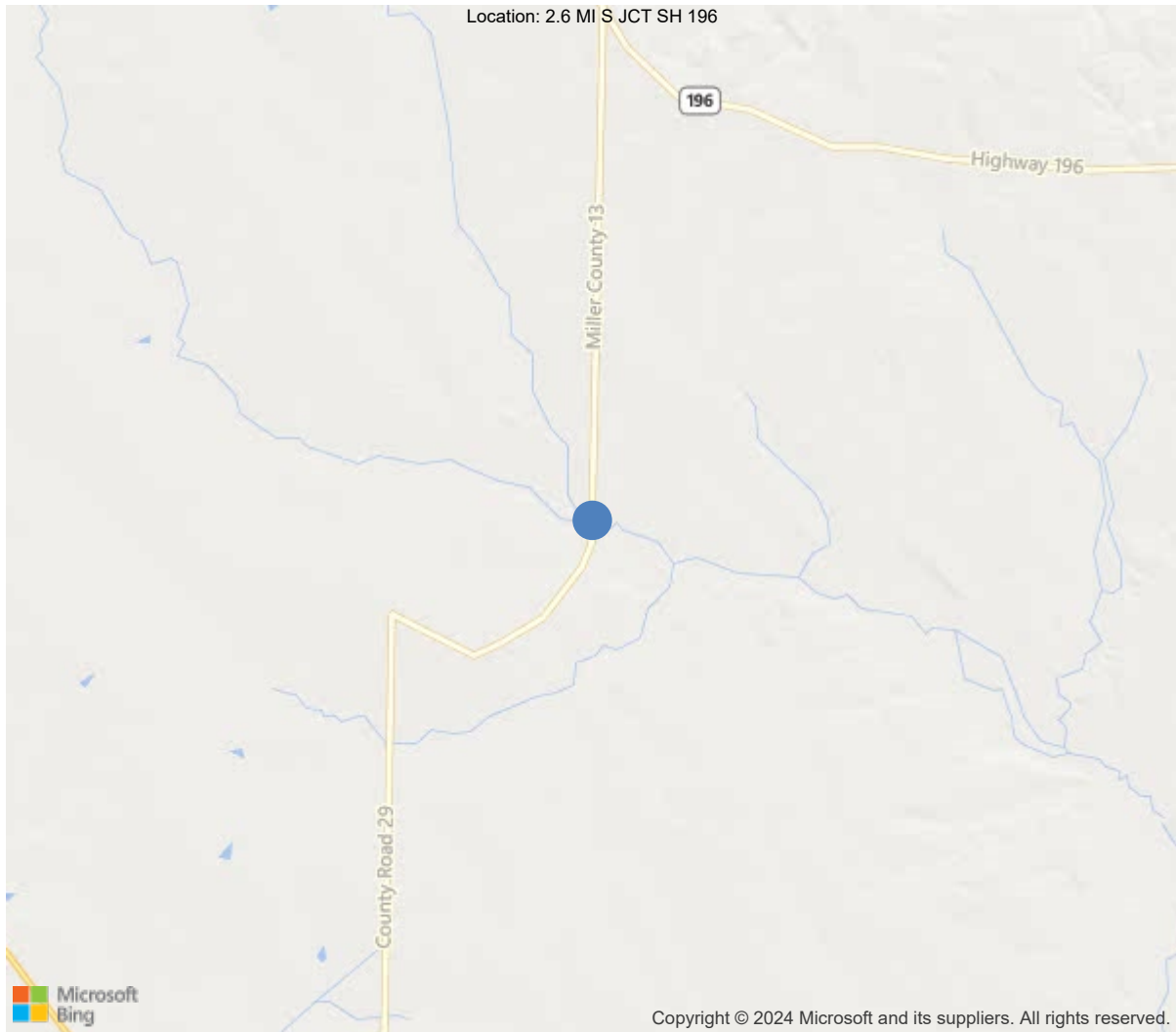
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	50		
Code 5 (40 Tons)	60		

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



33.32480, -93.85883



Asset #04499(Routine)

CO RD 13 -D- 2.60 over BEECH CREEK

Location: 2.6 MI S JCT SH 196

Team Lead: Jared Kegley, Inspection Date: 08/01/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	04499
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	91 - Miller County
(4) Place Code	0
(6) Features Intersected	BEECH CREEK
(7) Facility Carried	CO RD 13 -D- 2.60
(9) Location	2.6 MI S JCT SH 196
(11) Mile Point	2.6 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.324799
(17) Longitude	-93.858833
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(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	2 - Concrete Precast Panels
(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	1985
(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	638
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	155 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24.6 ft
(52) Deck Width Out to Out	28 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	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	8 - Rural Minor Collector
(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	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	7
(59) Superstructure	7
(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	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	
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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	5 - 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	0
(114) Future ADT	377
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date	08/01/2023		
(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.			



58 - Deck (7 - GOOD CONDITION - some minor problems.)

Deck is rated a 7 this inspection due to minor cracking, minor delams, old patch work and abrasion on top flange.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Superstructure is rated a 7 due to minor flexural cracks in stems of all units, 2 spalls in span 5 unit 1 near bent 5.

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

Substructure is rated a 7 this inspection due to spalls on concrete caps at bents 3 and 5. All piling has been encased in metal culvert pipe and showing signs of corrosion on casing.

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 is rated a 7 this inspection due to minor bank damage upstream and downstream.

A-46 - Asset Files

-

A-59 - Joint Repair Needed (Y)

Joints on this bridge need to be cleaned out and poured back, some joints have material completely missing others have lack of seal adhesion.

A-64 - Vegetation Removal Requested (Y)

Maintenance need was created on this due to priority code C update because of vegetation encroachment upon bridge on both ends.

A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (6 - Widespread minor or isolated moderate scour.)

Scour is rated a 6 this inspection due to minor scour hole at beginning of bridge right side, Ground is mostly sugar sand and is eroding in one area and filling in another area as shown in the picture below.

Scour hole is in spans 2 and 3 and around bent 2.



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Location: 2.6 MI S JCT SH 196

Team Lead: Jared Kegley, Inspection Date: 08/01/2023

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Comment: Deck is rated a 7 this inspection due to minor cracking, minor delams, old patch work and abrasion on top flange.



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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Comment: Superstructure is rated a 7 due to minor flexural cracks in stems of all units, 2 spalls in span 5 unit 1 near bent 5.



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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

Comment: Substructure is rated a 7 this inspection due to spalls on concrete caps at bents 3 and 5. All piling has been encased in metal culvert pipe and showing signs of corrosion on casing.

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.)

Comment: Channel is rated a 7 this inspection due to minor bank damage upstream and downstream.



Elevation



Joints need to be cleaned out from debris and reported back



Updated brush photo 8/23 brush now on top of bridge



Span 5 unit 1 has two delams



Upstream channel



Down stream channel



Scour hole beginning of bridge right side



3 spalls on bent 5 cap south face



All piling have been encased by steel culvert pipe and beginning to show signs of corrosion



Salt leeching through all joints underside of deck



2 spall bent 3 cap south face



Typical substructure bent 2



Spall bent 3 north face of cap



Spall bent 3 north face of cap



Minor cracking in various locations on underside of precast units



Typical superstructure bent 2



Some small old patch work in various locations



Some cracking in precast units various locations on deck



Minor delams in various locations



Typical deck



Alignment



Precast units



Cracks in bottom of precast units various locations of all spans

Maintenance Needs

Date Reported: 08/05/2019

Priority: C - Important

Type of Work: Miscellaneous

Status: Open

Component: Miscellaneous

Deficiency Description

Trees and brush growing along and under bridge.

Remarks

Updated pictures in 2023 inspection. brought priority code from a D to a C due to the vegetation is now encroaching onto the bridge itself and up around the guard railing. reopened maintenance need to show the change in priority code.



Updated brush photo 8/23 brush now on top of bridge



Updated brush photo 8/23 brush now on top of bridge



Updated brush photo 8/23 brush now on top of bridge



Updated brush photo 8/23 brush now on top of bridge



Updated brush photo 8/23



Updated brush photo 8/23



SS



Trees and brush growing along and under bridge.



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	Yes
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	Yes

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

A-57 - Beam End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed (Yes)

Joints on this bridge need to be cleaned out and poured back, some joints have material completely missing others have lack of seal adhesion.



Joints need to be cleaned out from debris and reported back

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 (Yes)

Maintenance need was created on this due to priority code C update because of vegetation encroachment upon bridge on both ends.



Updated brush photo 8/23 brush now on top of bridge



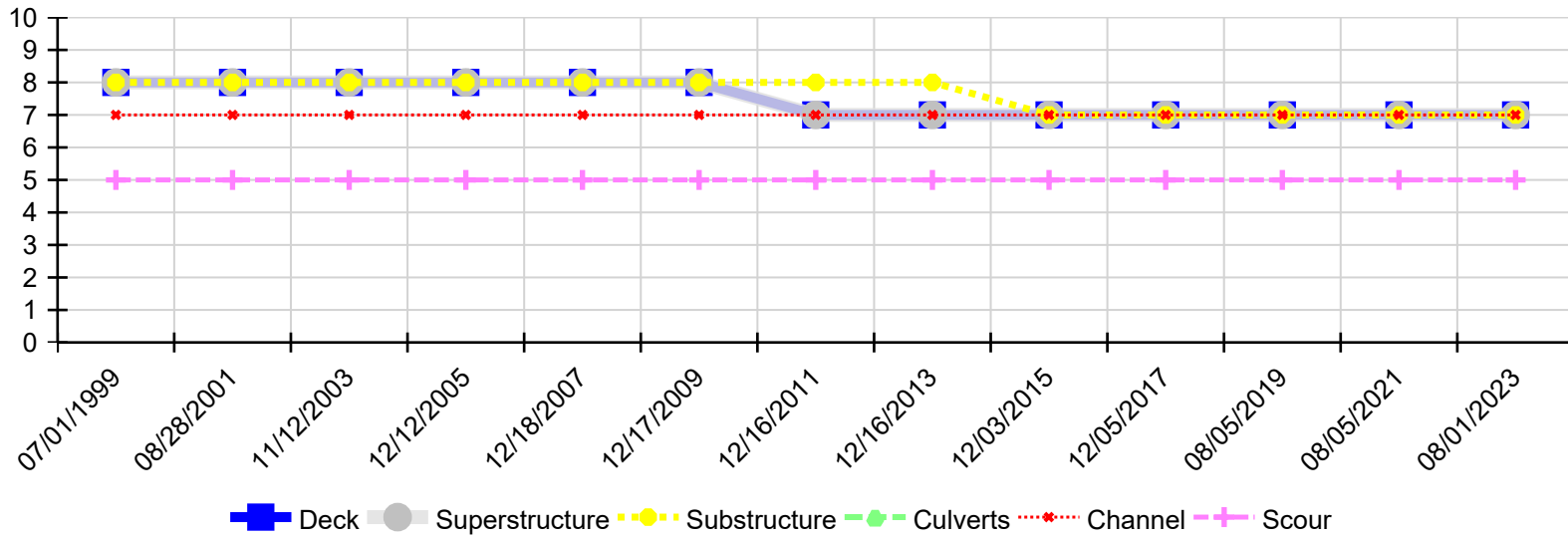
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/01/2023	7	7	7	N	7	5
08/05/2021	7	7	7	N	7	5
08/05/2019	7	7	7	N	7	5
12/05/2017	7	7	7	N	7	5
12/03/2015	7	7	7	N	7	5
12/16/2013	7	7	8	N	7	5
12/16/2011	7	7	8	N	7	5
12/17/2009	8	8	8	N	7	5
12/18/2007	8	8	8	N	7	5
12/12/2005	8	8	8	N	7	5
11/12/2003	8	8	8	N	7	5
08/28/2001	8	8	8	N	7	5
07/01/1999	8	8	8	N	7	5