



Latitude:35.75849, Longitude:-90.82423

Route:49 Section:04 Log:8.2

Arnold Road ID:16x49x4xA, Arnold Log mile:8.204

District 10, 31 - Craighead County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

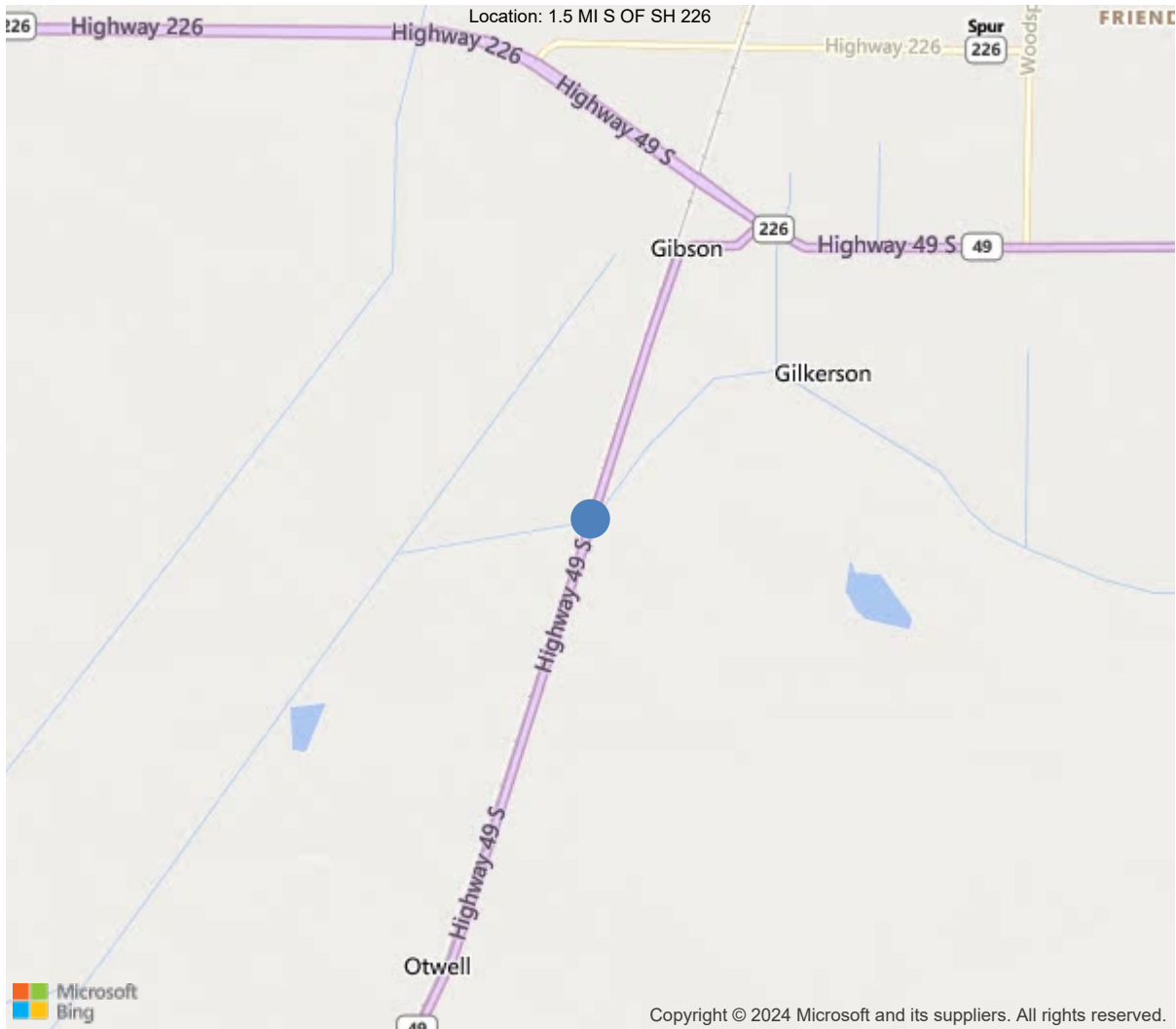
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	38		
Code 9 (31 Tons)	45		
Code 5 (40 Tons)	59		

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



35.75849, -90.82423



Asset #06012(Routine)

US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06012
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	31 - Craighead County
(4) Place Code	0
(6) Features Intersected	BLACK FORK DITCH
(7) Facility Carried	US 49-04- LM 8.20
(9) Location	1.5 MI S OF SH 226
(11) Mile Point	8.2 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049040
(16) Latitude	35.75849
(17) Longitude	-90.82423
(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	1984
(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	2500
(30) Year of ADT	2018
(109) Truck ADT	16 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 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	42.7 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	40 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	5 - None present but re-evalua
(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	1 - The inventory route is par
(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	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(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	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	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	
(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	6441
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	12/07/2022		
(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.			



General Observation

-

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

Approach gutters have minor settlement.

Approach roadways both ends of bridge each have some minor settlement.

Concrete bridge rails have a few minor cracks.

Top of slab has minor abrasion and a few moderate width longitudinal cracks.

Poured joint material between spans is beginning to lose adhesion.

Slab soffit has a few longitudinal cracks with efflorescence, and a few delaminated areas near edges.

Soffit has a few small patches & rubbed areas.

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

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

Concrete abutments have a few hairline to minor sized cracks.

Concrete caps have a few minor cracks.

Bottom of caps at bents 2 and 3 have a few small spalls with stirrup bars partially exposed, mostly from lack of coverage.

Bent 3 cap has spalls at top of cap on left and right ends.

Trees and brush growing under & beside bridge.

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.)

Trees and brush growing under & beside bridge.



Asset #06012(Routine)

US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3201	2959	116	126	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1120	Efflorescence/Rust Staining	SF	150	0	112	38	0
1130	Cracking (RC and Other)	SF	88	0	0	88	0
215	Reinforced Concrete Abutment	LF	122	118	4	0	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
227	Reinforced Concrete Pile	EA	12	0	12	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	11	0	11	0	0
234	Reinforced Concrete Pier Cap	LF	86	72	14	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
301	Pourable Joint Seal	LF	85	43	42	0	0
2320	Seal Adhesion	LF	42	0	42	0	0
331	Reinforced Concrete Bridge Railing	LF	150	138	12	0	0
1130	Cracking (RC and Other)	LF	12	0	12	0	0



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Deck

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Comment: Approach gutters have minor settlement.

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Poured joint material between spans is beginning to lose adhesion.

Slab soffit has a few longitudinal cracks with efflorescence, and a few delaminated areas near edges.

Soffit has a few small patches & rubbed areas.



Asset #06012(Routine)

US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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

Comment: Slab soffit has a few longitudinal cracks with efflorescence, and a few delaminated areas near edges.
Soffit has a few small patches & rubbed areas.



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	122	118	4	0	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
227	Reinforced Concrete Pile	EA	12	0	12	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	11	0	11	0	0
234	Reinforced Concrete Pier Cap	LF	86	72	14	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0

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

Comment: Concrete abutments have a few hairline to minor sized cracks.

Concrete caps have a few minor cracks.

Bottom of caps at bents 2 and 3 have a few small spalls with stirrup bars partially exposed, mostly from lack of coverage.

Bent 3 cap has spalls at top of cap on left and right ends.

Trees and brush growing under & beside bridge.

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: Trees and brush growing under & beside bridge.



Elevation



Span 2



Bent 3



Bent 2



Deck



Deck



South



Longitudinal cracks and abrasion



Asset #06012(Routine)

US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

Maintenance Needs

Date Reported: 01/24/2011

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Repair Documented

Component: Deck

Deficiency Description

*Top of slab has minor abrasion and a few moderate width longitudinal cracks.

Remarks

*Closed and added to Routine Maintenance page, 12-7-2022. JFA/CWS



Longitudinal cracks and abrasion

Maintenance Needs

Date Reported: 12/07/2016

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component: Substructure

Deficiency Description

Bent 3 cap has spalls at top of cap on Lt and Rt ends.

Remarks



Bent 3 left 12-7-2022



Bent 3 right 12-7-2022





Asset #06012(Routine)

US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

Maintenance Needs

Date Reported: 01/24/2011

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: RepairDocumented

Type of Work: (Inactive) (Inactive) 9 - None

Component: Deck

Deficiency Description

*Poured joint material between spans is beginning to lose adhesion.

Remarks

*Closed and added to Routine Maintenance page, 12-7-2022. JFA/CWS

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
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	

A-54 - Sealable Deck Cracks (Yes)



Deck



Longitudinal cracks and abrasion

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)



Bent 3



Bent 2

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised



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US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



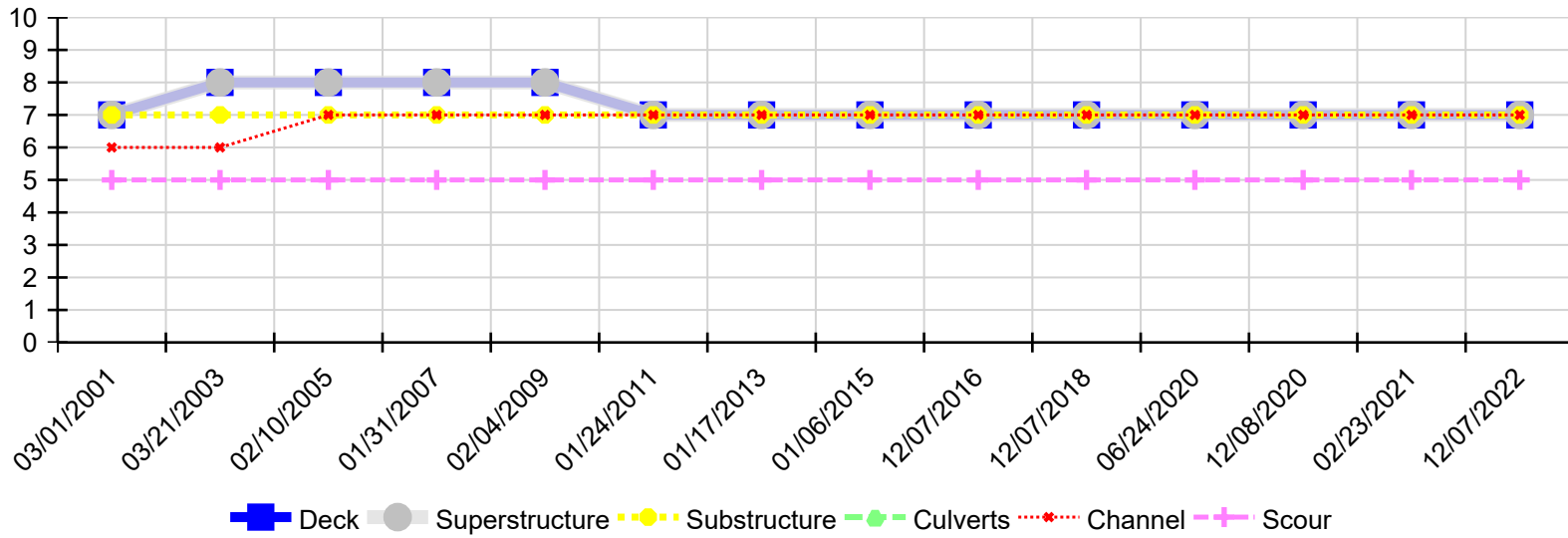
Asset #06012(Routine)

US 49-04- LM 8.20 over BLACK FORK DITCH

Location: 1.5 MI S OF SH 226

Team Lead: James Adams, Inspection Date: 12/07/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/07/2022	7	7	7	N	7	5
02/23/2021	7	7	7	N	7	5
12/08/2020	7	7	7	N	7	5
06/24/2020	7	7	7	N	7	5
12/07/2018	7	7	7	N	7	5
12/07/2016	7	7	7	N	7	5
01/06/2015	7	7	7	N	7	5
01/17/2013	7	7	7	N	7	5
01/24/2011	7	7	7	N	7	5
02/04/2009	8	8	7	N	7	5
01/31/2007	8	8	7	N	7	5
02/10/2005	8	8	7	N	7	5
03/21/2003	8	8	7	N	6	5
03/01/2001	7	7	7	N	6	5