



Latitude:35.11595, Longitude:-92.44817

Route:40 Section:32 Log:124.34

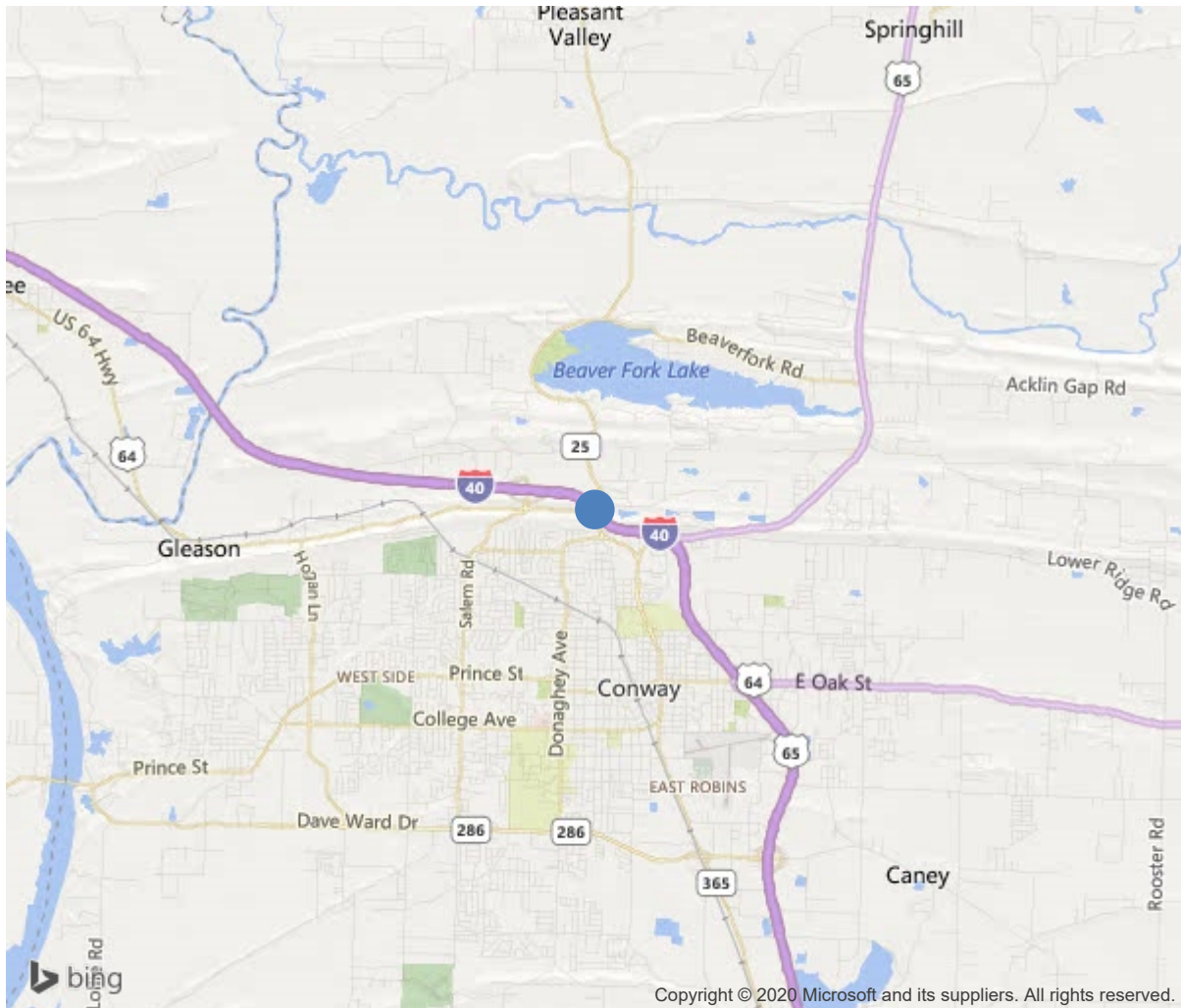
Arnold Road ID:23x40x32xB, Arnold Log mile:160.162

District 08, Faulkner County

Owner: 1-State Highway Agency

Place Code: 14560 - CONWAY

4.05 MI E CONWAY CO LINE



35.11595, -92.44817



Bridge #A3919(Routine)
I 40-SEC 32, WB LN over Friendship Rd.
Location: 4.05 MI E CONWAY CO LINE

Team Lead: William Wood Inspection Date: February 24, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A3919
(5) Inventory Route	40
(2) Highway Agency District	08
(3) County Code	45-Faulkner County, Arkansas
(4) Place Code	14560
(6) Features Intersected	Friendship Rd.
(7) Facility Carried	I 40-SEC 32, WB LN
(9) Location	4.05 MI E CONWAY CO LINE
(11) Mile Point	124.34 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040320
(16) Latitude	35.11595
(17) Longitude	-92.44817
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1966
(106) Year Reconstructed	0
(42) Type of Service	61
On	6-Overpass structure at an interchange or secon
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	10000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	56 ft
(49) Structure Length	170 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	38.7 ft
(52) Deck Width Out to Out	42.5 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	38.7 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	23.17 ft
Ref:	
(55) Min Lat Underclear RT	3 ft
Ref:	
(56) Min Lat Underclear LT	3 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	5-None present but re-evaluation
(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	1
(26) Functional Class	11-Urban Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	L-The left structure of parallel
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	5
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	N
(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	3
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	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0111
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	1-Inspected feature meets currently a
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	N-Bridge not over waterway.
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	23927
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	202002
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0

SUFFICIENCY RATING	80
STATUS (SD/FO/None)	Functionally Obsolete



Bridge #A3919(Routine)

I 40-SEC 32, WB LN over Friendship Rd.

Location: 4.05 MI E CONWAY CO LINE

Team Lead: Bruce Bryan, Inspection Date: February 24, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6804	4500	2265	39	0
1080	Delamination/Spall/Patched Area	SF	490	0	475	15	0
1130	Cracking (RC and Other)	SF	1664	0	1640	24	0
1190	Abrasion/Wear (PSC/RC)	SF	150	0	150	0	0
(12) MINOR TO MODERATE DELAM, CRACKING, SCALING & SPALLING THROUGHOUT DECK. MINOR "D" CRACKING & SPALLING AT JOINTS. MINOR CRACKING W / EFFLOR, SCALING & SPALLING IN SOFFIT.							
107	Steel Open Girder/Beam	LF	1176	1140	26	10	0
1000	Corrosion	LF	35	0	25	10	0
1020	Connection	LF	1	0	1	0	0
515	Steel Protective Coating	SF	8884	8369	400	100	15
3440	Effectiveness (Steel Protective Coatings)	SF	515	0	400	100	15
(107) MINOR TO MODERATE RUST & SECTION LOSS ON ENDS OF BEAMS. MAINLY IN HAUNCHED AREAS. 2 BOLTS MISSING ON BEAM 5 AT 1st DIAPHRAGM AHD OF PIER 3.							
205	Reinforced Concrete Column	EA	4	3	1	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
(205) MINOR DELAM & SPALLING W / REBAR EXPOSED IN COLUMN 1 RT. SIDE AT PIER 2.							
215	Reinforced Concrete Abutment	LF	97	97	0	0	0
(215) GOOD. HEAD WALL HAS BEEN REPAIRED.							
234	Reinforced Concrete Pier Cap	LF	80	70	5	5	0
1090	Exposed Rebar	LF	5	0	0	5	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
(234) MINOR CRACKING IN BOTTOM FACE OF CAP 3. MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN BOTTOM FACE OF CAP 3 RT. SIDE NEXT TO COLUMN 2.							
305	Assembly Joint without Seal	LF	156	130	26	0	0
2360	Adjacent Deck or Header	LF	26	0	26	0	0
(305) MINOR TO MODERATE POPPING IN PLATES AT ALL THE JOINTS. MINOR "D" CRACKING & SPALLING AT JOINTS. Head Wall at Abutment 4 has been Repaired & Loose Section of Joint has been Removed.							
311	Movable Bearing	EA	21	0	21	0	0



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Location: 4.05 MI E CONWAY CO LINE

Team Lead: Bruce Bryan, **Inspection Date:** February 24, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1000	Corrosion	EA	21	0	21	0	0
515	Steel Protective Coating	SF	63	13	40	10	0
3440	Effectiveness (Steel Protective Coatings)	SF	50	0	40	10	0
(311)							
MINOR RUST ON ALL BEARINGS.							
313	Fixed Bearing	EA	21	0	9	12	0
1000	Corrosion	EA	21	0	9	12	0
515	Steel Protective Coating	SF	35	0	15	10	10
3440	Effectiveness (Steel Protective Coatings)	SF	35	0	15	10	10
(313)							
MINOR TO MODERATE RUST & PACK RUST ON ALL BEARINGS.							
321	Reinforced Concrete Approach Slab	SF	2160	2000	90	70	0
1130	Cracking (RC and Other)	SF	160	0	90	70	0
(321)							
MINOR TO MODERATE CRACKING THROUGHOUT SLABS.							
330	Metal Bridge Railing	LF	336	336	0	0	0
(330)							
Aluminum Rail on top of Concrete Rail.							
331	Reinforced Concrete Bridge Railing	LF	336	336	0	0	0



Roadway



Typ. Condition of Soffit.



Typ. Scale in Soffit.



Typ. Condition of Deck.

Maintenance Needs

Date Reported: 02/27/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Some bearings at the abutments have moderate pack rust and some bearings are popping (lifting off their seats) when trucks cross.

Inspection Date: 02/15/2018

Abut #1, Bearing #'s 3 & 4 - heavy pack rust and minor section loss. Others have minor and moderate pack rust.

Abut #4, Bearing #'s 3 & 4 - heavy pack rust and minor section loss. Others have minor and moderate pack rust.

Remarks



Abut #1, bearing #4 - heavy pack rust.



Abut #4, beam #3 - heavy pack rust on bearing,
Bearing B1 & B2 minor pack rust.



Abut #1, bearing #3 - heavy pack rust.



Abut #1, bearing #2 - moderate pack rust. B5 & B6 typical, B1 & B7 minor rust.

Date Reported: 02/27/2012
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Span # 3, Beam # 5, 1st diaphragm ahead of pier # 3 - Two bolts missing where diaphragm connects to beam.
Beam 3 Abutment 4 Anchor Bolt Nut Missing.

Remarks



Anchor Bolt Nut Missing on Beam 3 at Abutment 4.



Bolts Missing on Beam 5 Span 3.

Date Reported: 02/27/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

DECK

All Spans - Minor and moderate cracks.

Span # 1 - Minor to moderate spall in left lane backside of joint # 2 (no rebar exposed), Scaling on right shoulder.

Span # 2 - Minor spall in left lane ahead side of joint # 2 (no rebar exposed)

Span # 3 - Minor spall and patch area in left shoulder (no rebar exposed).

Inspection Date: 02/15/2018

Moderate and a few major unsealed cracks in all spans.

Minor spalls along the slide plate of all joints.

Several areas of minor and moderate spalls, and moderate scale.

Remarks



Span #1, left side - spall and scale



Moderate and major unsealed cracks. Map cracking in outside lane and moderate scale.



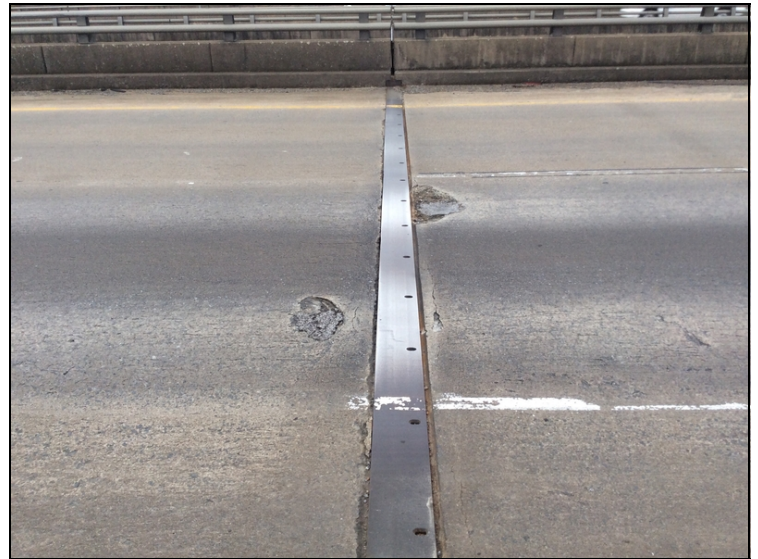
Joint #1 - minor spalls along the ahead side of slide plate. Typical at all joints



Map cracking mostly in outside lane.



Span #3, left side - moderate spalls



Joint #2 - 2 moderate spalls, minor spalls, delamination and cracks along slide plate.



Bridge #A3919(Routine)
I 40-SEC 32, WB LN over Friendship Rd.
Location: 4.05 MI E CONWAY CO LINE

Team Lead: William Wood **Inspection Date:** February 24, 2020

Date Reported: 02/16/2018

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Approach slabs at both end of bridge have moderate and major unsealed cracks.

Remarks



Beginning of Bridge

Date Reported: 02/16/2018
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Dirt and gravel accumulation next to inside curb.

Remarks



Dirt and gravel accumulating next to inside curb.

Date Reported: 02/16/2018
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Moderate section loss in the web below the concrete haunch at the following locations.

Abut #1, Beam #3
Abut #4, Beam #'s 3 & 4

Minor section loss in the web below the concrete haunch at various locations.

Remarks



Abut #4, Beam #4 - moderate section loss in web below concrete haunch.

Date Reported: 02/24/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 234 - Reinforced Concrete Pier Cap

Deficiency Description

CAPS - MINOR CRACKING IN BOTTOM FACE OF CAP 3. MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN BOTTOM FACE OF CAP 3 RT. SIDE NEXT TO COLUMN 2.

Remarks



Delam, & Spalling W / Rebar Exposed in Bt Face of Cap 3.



Typ. Cracking in Bt Face of Cap 3.



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I 40-SEC 32, WB LN over Friendship Rd.
Location: 4.05 MI E CONWAY CO LINE

Team Lead: William Wood Inspection Date: February 24, 2020

Date Reported: 02/24/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 205 - Reinforced Concrete Column

Deficiency Description

COLUMNS - MINOR DELAM & SPALLING W / REBAR EXPOSED IN COLUMN 1 RT. SIDE AT PIER 2.

Remarks



Delam & Spalling W / Rebar Exposed in Column 1
Rt. Side at Pier 2.



Bridge #A3919(Routine)
I 40-SEC 32, WB LN over Friendship Rd.
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Team Lead: William Wood **Inspection Date:** February 24, 2020

Inspection Comments

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