



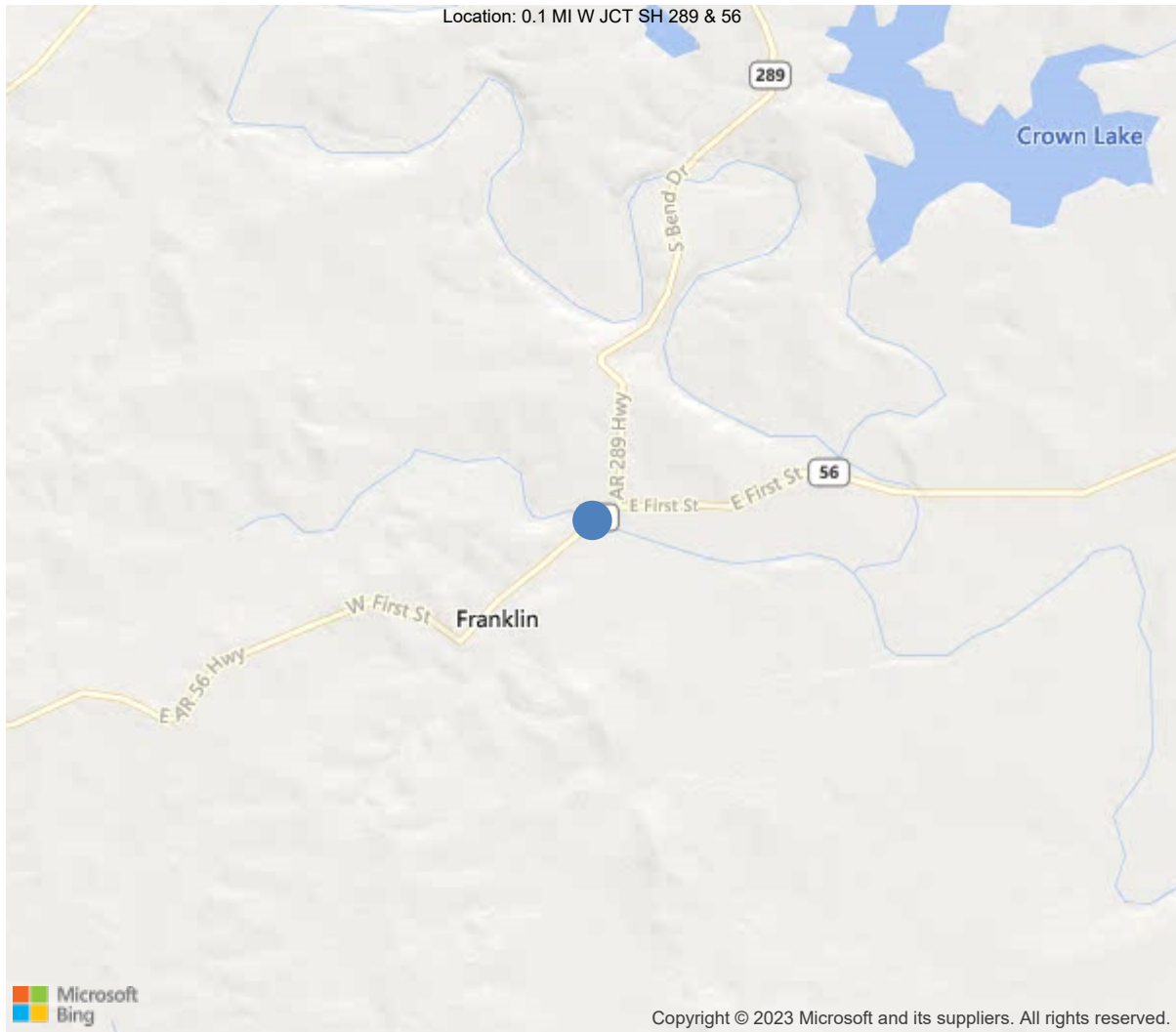
Latitude:36.17601, Longitude:-91.76693

Route:56 Section:02 Log:10.278

Arnold Road ID:33x56x2xA, Arnold Log mile:10.288

District 05, 65 - Izard County

Owner: 1 - State Highway Agency



36.17601, -91.76693



Asset #M1025(Routine, Underwater type 2)

SH 56 Izard County over CREEK

Location: 0.1 MI W JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 05/05/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M1025
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	65 - Izard County
(4) Place Code	25030
(6) Features Intersected	CREEK
(7) Facility Carried	SH 56 Izard County
(9) Location	0.1 MI W JCT SH 289 & 56
(11) Mile Point	10.278 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000056020
(16) Latitude	36.1760141193252
(17) Longitude	-91.7669335464637
(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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(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	1955
(106) Year Reconstructed	1988
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	1867
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	11 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	57 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24.3 ft
(52) Deck Width Out to Out	25.3 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	24.3 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	5
(59) Superstructure	4
(60) Substructure	5
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	45
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	27
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	6
(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 to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	82 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 365
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	2335
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/05/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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.			



Asset #M1025(Routine, Underwater type 2)

District: 05, County: 65 - IZARD County

Team Lead: Nathan Edwards, Inspection Date: 05/05/2022

General Observation

Elevation with Log Mile running to the Right.

59 - Superstructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

All spans have several areas of cracking & spalls with rebar exposed to girders of units.

A-46 - Asset Files

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A-51 - Inspection Direction (4 - W to E)

Roadway with Log Mile running West to East.

A-108 - Load Rating Requested (Yes)

Concrete precast units have heavy cracking with efflorescent and rust staining and heavy spalling with exposed rebar with section loss.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1442	1177	153	112	0
1080	Delamination/Spall/Patched Area	SF	130	0	46	84	0
1090	Exposed Rebar	SF	28	0	0	28	0
1130	Cracking (RC and Other)	SF	107	0	107	0	0
(16) Spalls around joints, areas of spalls, scaling & transverse cracks to deck @ all spans. Spall with rebar exposed to Unit 2 @ Span 1. See Form III							
110	Reinforced Concrete Open Girder/Beam	LF	399	93	88	218	0
1090	Exposed Rebar	LF	45	0	0	45	0
1120	Efflorescence/Rust Staining	LF	47	0	9	38	0
1130	Cracking (RC and Other)	LF	214	0	79	135	0
(110) See Form III Units 1-2 & 2-3 are not bolted transversely @ beginning of Span 3							
205	Reinforced Concrete Column	EA	12	6	1	5	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	3	0	1	2	0
(205) See Form III Columns exposed @ Abutments 1 & 2. Spalls with rebar exposed with s/l to Column 3 @ Bent 1 & Columns 1 & 2 @ Bent 2.							
215	Reinforced Concrete Abutment	LF	68	66	0	2	0
1130	Cracking (RC and Other)	LF	2	0	0	2	0
(215) Abutment 1 has horizontal crack to cap under Unit 4.							
234	Reinforced Concrete Pier Cap	LF	52	26	3	23	0
1080	Delamination/Spall/Patched Area	LF	10	0	3	7	0
1090	Exposed Rebar	LF	6	0	0	6	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
(234) Bent 1 - Spalls with 5' rebar exposed & areas of delaminating. Bent 2 - Heavy deterioration & efflorescent map cracking & spalling to Left end of cap. 2' minor horizontal cracks @ top of cap between Column 1 & 2.							
330	Metal Bridge Railing	LF	114	0	114	0	0
1000	Corrosion	LF	114	0	114	0	0
515	Steel Protective Coating	SF	342	0	114	114	114
3440	Effectiveness (Steel Protective Coatings)	LF	342	0	114	114	114
(330) Areas of rust.							

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1442	1177	153	112	0
1080	Delamination/Spall/Patched Area	SF	130	0	46	84	0
1090	Exposed Rebar	SF	28	0	0	28	0
1130	Cracking (RC and Other)	SF	107	0	107	0	0
(16) Spalls around joints, areas of spalls, scaling & transverse cracks to deck @ all spans. Spall with rebar exposed to Unit 2 @ Span 1. See Form III							



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SH 56 Izard County over CREEK

Location: 0.1 MI W JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 05/05/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	399	93	88	218	0
1090	Exposed Rebar	LF	45	0	0	45	0
1120	Efflorescence/Rust Staining	LF	47	0	9	38	0
1130	Cracking (RC and Other)	LF	214	0	79	135	0
(110) See Form III Units 1-2 & 2-3 are not bolted transversely @ beginning of Span 3							

59 - Superstructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Comment: All spans have several areas of cracking & spalls with rebar exposed to girders of units.

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	6	1	5	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	3	0	1	2	0
(205) See Form III Columns exposed @ Abutments 1 & 2. Spalls with rebar exposed with s/l to Column 3 @ Bent 1 & Columns 1 & 2 @ Bent 2.							
215	Reinforced Concrete Abutment	LF	68	66	0	2	0
1130	Cracking (RC and Other)	LF	2	0	0	2	0
(215) Abutment 1 has horizontal crack to cap under Unit 4.							
234	Reinforced Concrete Pier Cap	LF	52	26	3	23	0
1080	Delamination/Spall/Patched Area	LF	10	0	3	7	0
1090	Exposed Rebar	LF	6	0	0	6	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
(234) Bent 1 - Spalls with 5' rebar exposed & areas of delaminating. Bent 2 - Heavy deterioration & efflorescent map cracking & spalling to Left end of cap. 2' minor horizontal cracks @ top of cap between Column 1 & 2.							



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Location: 0.1 MI W JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 05/05/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation with Log Mile running to the Right.



Roadway with Log Mile running West to East.

Maintenance Needs

Date Reported: 06/21/2012
Priority: C - Important
Type of Work: (Inactive) (Inactive) 9 - None
Status: Assigned
Component:

Deficiency Description

Spalls with wire mesh exposed to deck below @ all spans.

Spalls with rebar exposed to girders/diaph. of Units 1,2,5 & 7 @ Span 1.
Spalls with rebar exposed to girders/diaph. of Units 1 - 7 @ Span 2.
Spalls with rebar exp. to girders/diaph. of Units 2 & 5 @ Span 3.

Remarks



Spalls with rebar exposed to girders/diaph. of Units 1 & 7 @ Span 1.
Spalls with rebar exposed to girders/diaph. of Units 1, 2, 5, 6 & 7 @ Span 2.
Spalls with rebar exp. to girders/diaph. of Unit 5 @ Span 3.



Spalls with wire mesh exposed to deck below @ all spans.

Date Reported: 06/21/2012
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

Units 1-2 & 2-3 are not bolted transversely @ beginning of Span 3

Remarks



Units 1-2 & 2-3 are not bolted transversely @
beginning of Span 3.



Asset #M1025(Routine, Underwater type 2)

SH 56 Izard County over CREEK

Location: 0.1 MI W JCT SH 289 & 56

Team Lead: Nathan Edwards, **Inspection Date:** 05/05/2022

Date Reported: 06/21/2012

Priority: D- Routine

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

Status: Monitor

Component:

Deficiency Description

Spalling with rebar exposed & areas of delam. to caps @ Bents 1 & 2.
Heavy deterioration to left end of cap @ Bent 2

Remarks



Heavy deterioration to left end of cap @ Bent 2



Spalling with rebar exposed & areas of delamination to Caps @ Bents 1 & 2.



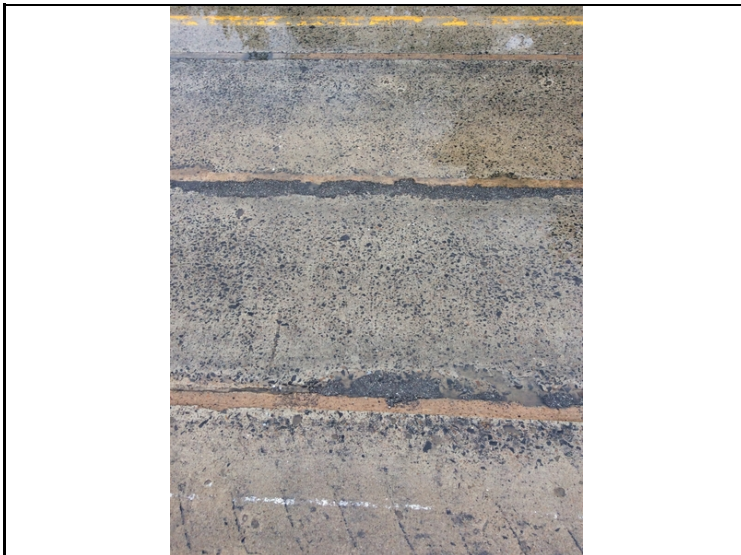
Heavy deterioration to left end of cap @ Bent 2

Date Reported: 06/21/2012
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

Transverse cracks to deck at all spans.

Remarks



Transverse cracks to deck at all spans.

Date Reported: 05/09/2014
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

Cracking & spalls (some with reb. exposed) to Column 1-3 @ Bent 1 & 2.

Remarks



Cracking & spalls (some with rebar exposed) to
Columns 1-3 @ Bents 1 & 2.



Cracking & spalls (some with reb. exposed) to
Column 1-3 @ Bent 1 & 2.

Date Reported: 05/18/2022
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component: Approach

Deficiency Description

Erosion into Left edge of roadway behind Abutment 1.

Remarks



Erosion into Left edge of roadway behind Abutment
1.



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Location: 0.1 MI W JCT SH 289 & 56

Team Lead: Nathan Edwards, **Inspection Date:** 05/05/2022

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	



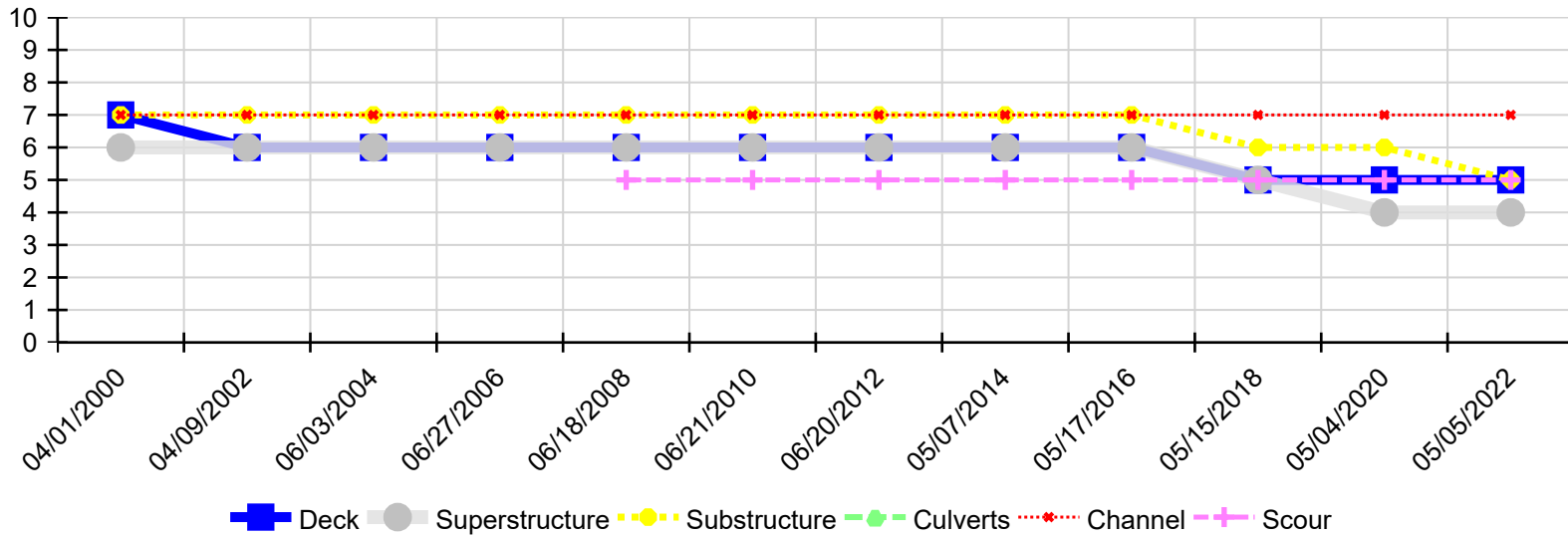
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SH 56 Izard County over CREEK

Location: 0.1 MI W JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 05/05/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/05/2022	5	4	5	N	7	5
05/04/2020	5	4	6	N	7	5
05/15/2018	5	5	6	N	7	5
05/17/2016	6	6	7	N	7	5
05/07/2014	6	6	7	N	7	5
06/20/2012	6	6	7	N	7	5
06/21/2010	6	6	7	N	7	5
06/18/2008	6	6	7	N	7	5
06/27/2006	6	6	7	N	7	N
06/03/2004	6	6	7	N	7	N
04/09/2002	6	6	7	N	7	N
04/01/2000	7	6	7	N	7	N