



Latitude:36.36873, Longitude:-90.77671

Route:328 Section:01 Log:9.3

Arnold Road ID:61x328x1xA, Arnold Log mile:9.272

District 10, 121 - Randolph County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

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

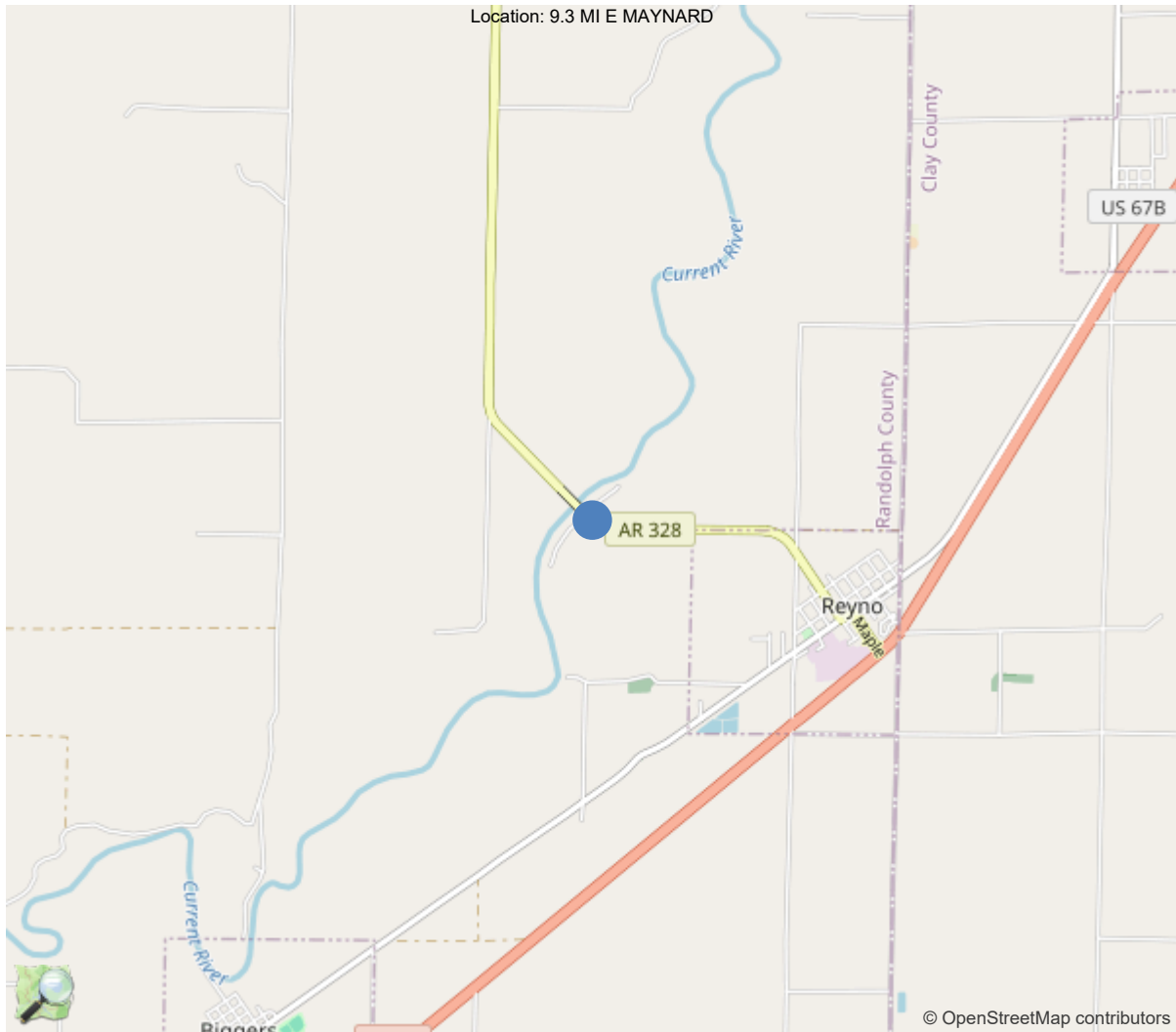
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	39		
Code 9 (31 Tons)	44		
Code 5 (40 Tons)	54		

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



36.36873, -90.77671



Asset #05736(Routine, Underwater type 2)
SH 328-01-LM 9.30 over CURRENT RIVER RELIEF
Location: 9.3 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05736
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	121 - Randolph County
(4) Place Code	0
(6) Features Intersected	CURRENT RIVER RELIEF
(7) Facility Carried	SH 328-01-LM 9.30
(9) Location	9.3 MI E MAYNARD
(11) Mile Point	9.3 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.36873
(17) Longitude	-90.77671
(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	14
(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	1978
(106) Year Reconstructed	0
(42) Type of Service	19
On	1 - Highway
Under	9 - Relief for waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	630
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	420 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	28.7 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	26 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	7 - Rural Major Collector
(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	0 - The inventory route is not
(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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	59
(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	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	746
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/15/2023		
(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.			



General Observation

-

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Routine & underwater type 2 inspection performed this report.

Northwest & Southeast flareboards missing.

Approach slabs have settled and pulled away from bridge at each approach. Bent 1 approach slab has settled approximately 1in. Approach slabs have been shimmed with asphalt sometime in the past.

Bridge rails have several minor cracks with some efflorescence, areas of abrasion, and spalls with exposed rebar, mostly from lack of coverage.

Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks.

Top of slab has received a overlay by HBM since previous inspection.

Soffit portion of slabs have a few hairline cracks and small delaminated areas.

Edges of slabs have a few cracks with efflorescence over bents.

Left edge of slabs are cracked, delaminated, and have spalls with exposed rebar.

Slab portion of Spans 2, 3, 4,5, 6, 7, 9,10 and 11 have areas along left edge where concrete has spalled completely away from 1 longitudinal bar.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Concrete soffit, left edge all spans have areas spalled with exposed rebar, rebar has section loss, some areas are up to 3.0 ft. wide.

Slab portion of Spans 2, 3, 4,5, 6, 7, 9,10 and 11 have areas along left edge where concrete has spalled completely away from 1 longitudinal bar.

A few areas of slabs have delaminated areas near bents.

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

Underwater type 2 inspection performed this report.

Caps have several minor cracks, spalls, and delaminated areas. Some spalls have exposed rebar. A few piles have minor honeycombed areas.

Bent 1 abutment has some minor undermining with 2 piles exposed.

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

Underwater type 2 inspection performed this report. Channel bed is dry most of time (relief bridge).

Bent 1 abutment has some minor undermining with 2 exposed piling.

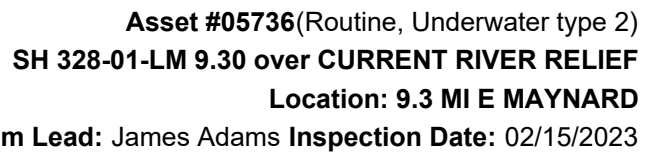
A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (8 - Insignificant scour.)

Underwater type 2 inspection performed this report. Channel bed is dry most of time (relief bridge).

Bent 1 abutment has some minor undermining with 2 exposed piling.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	12040	3973	5732	1915	420
1080	Delamination/Spall/Patched Area	SF	118	0	94	24	0
1090	Exposed Rebar	SF	723	0	0	303	420
1120	Efflorescence/Rust Staining	SF	54	0	0	54	0
1130	Cracking (RC and Other)	SF	1152	0	822	330	0
1190	Abrasion/Wear (PSC/RC)	SF	6020	0	4816	1204	0
521	Concrete Protective Coating	SF	10920	10920	0	0	0
<p>(38) Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks. Top of slab has received a overlay by HBM since previous inspection.</p> <p>Soffit portion of slabs have a few hairline cracks and small delaminated areas. Edges of slabs have a few cracks with efflorescence over bents. Lt edge of slabs are cracked, delaminated, and have spalls with exposed rebar. Slab portion of Spans 2, 3, 4,5, 6, 7, 9,10 and 11 have areas along left edge where concrete has spalled completely away from 1 longitudinal bar.</p> <p>Concrete soffit, left edge all spans have areas spalled with exposed rebar, rebar has section loss, some areas are up to 3.0 ft. wide.</p> <p>A few areas of slabs have delaminated areas near bents.</p>							
215	Reinforced Concrete Abutment	LF	71	63	8	0	0
1080	Delamination/Spall/Patched Area	LF	8	0	8	0	0
(215) Bent 1 abutment has some minor undermining with 2 piles exposed.							
227	Reinforced Concrete Pile	EA	80	78	2	0	0
6000	Scour	EA	2	0	2	0	0
(227) A few piles have minor honeycombed areas.							
234	Reinforced Concrete Pier Cap	LF	375	284	25	66	0
1080	Delamination/Spall/Patched Area	LF	36	0	21	15	0
1090	Exposed Rebar	LF	35	0	0	35	0
1120	Efflorescence/Rust Staining	LF	15	0	0	15	0
1130	Cracking (RC and Other)	LF	5	0	4	1	0
(234) Caps have several minor cracks, spalls, and delaminated areas. Some spalls have exposed rebar.							
301	Pourable Joint Seal	LF	430	0	0	0	430
2320	Seal Adhesion	LF	430	0	0	0	430
321	Reinforced Concrete Approach Slab	SF	660	0	660	0	0

[illegible]



Soffit



Span 6 centerline



Deck HBM Polymer observed 2-15-2023



East



02/15/2023

Elevation 2-15-2023

Maintenance Needs

Date Reported: 02/21/2017

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

Deficiency Description

Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks

Remarks

HBM applied protective coating since previous inspection. Observed 02-15-2023 JFA/CWS



Deck HBM Polymer observed 2-15-2023



cracks, spalls, abrasion

Maintenance Needs

Date Reported: 02/21/2017

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

Deficiency Description

Lt edge of slabs are cracked, delaminated, and have spalls with exposed rebar. Spans 2, 3, 4, 6, 7, 9, and 11 have areas along Lt edge where concrete has spalled completely away from 1 longitudinal bar.

Remarks



Span 13&14 left



Span 11&12 left



Span 9&10 left



Span 7&8 left



Span 5&6 left



Span 4 left



Span 3 left



Span 2 left



Span 1 left





Span 11 Lt



Span 9 Lt



Span 6 and 7 Lt



Spans 2, 3, 4

Maintenance Needs

Date Reported: 02/21/2017

Priority: C - Important

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

Status: Monitor

Component: Approach

Deficiency Description

Approach slabs have settled and pulled away from bridge at each approach. Bent 1 approach slab has settled approximately 1"

Remarks



Bent 1



Asset #05736(Routine, Underwater type 2)
SH 328-01-LM 9.30 over CURRENT RIVER RELIEF
Location: 9.3 MI E MAYNARD
Team Lead: James Adams **Inspection Date:** 02/15/2023

Maintenance Needs

Date Reported: 02/22/2011

Priority: D- Routine

Type of Work: Replace (General)

Status: Monitor

Component: Element

Deficiency Description

Poured joint material has lost adhesion and has some sections missing.

Remarks



Asset #05736(Routine, Underwater type 2)
SH 328-01-LM 9.30 over CURRENT RIVER RELIEF
Location: 9.3 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

Maintenance Needs

Date Reported: 02/22/2011

Priority: D- Routine

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

Status: Monitor

Component: Deck

Deficiency Description

Bridge rails have several minor cracks with some efflorescence, areas of abrasion, and spalls with rebar exposed, mostly from lack of coverage.

Remarks

Maintenance Needs

Date Reported: 02/21/2017

Priority: D- Routine

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

Status: Monitor

Component: Substructure

Deficiency Description

Caps have several minor cracks, spalls, and delaminated areas. Some spalls have exposed rebar.

Remarks



Bent 14



Bent 13



Bent 12



Bent 14 delam



Maintenance Needs

Date Reported: 02/21/2017

Priority: D- Routine

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

Status: Monitor

Component: Substructure

Deficiency Description

Bent 1 abutment has some minor undermining with 2 piles exposed.

Remarks



Bent 1



Bent 1



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	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



Asset #05736(Routine, Underwater type 2)
SH 328-01-LM 9.30 over CURRENT RIVER RELIEF
Location: 9.3 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

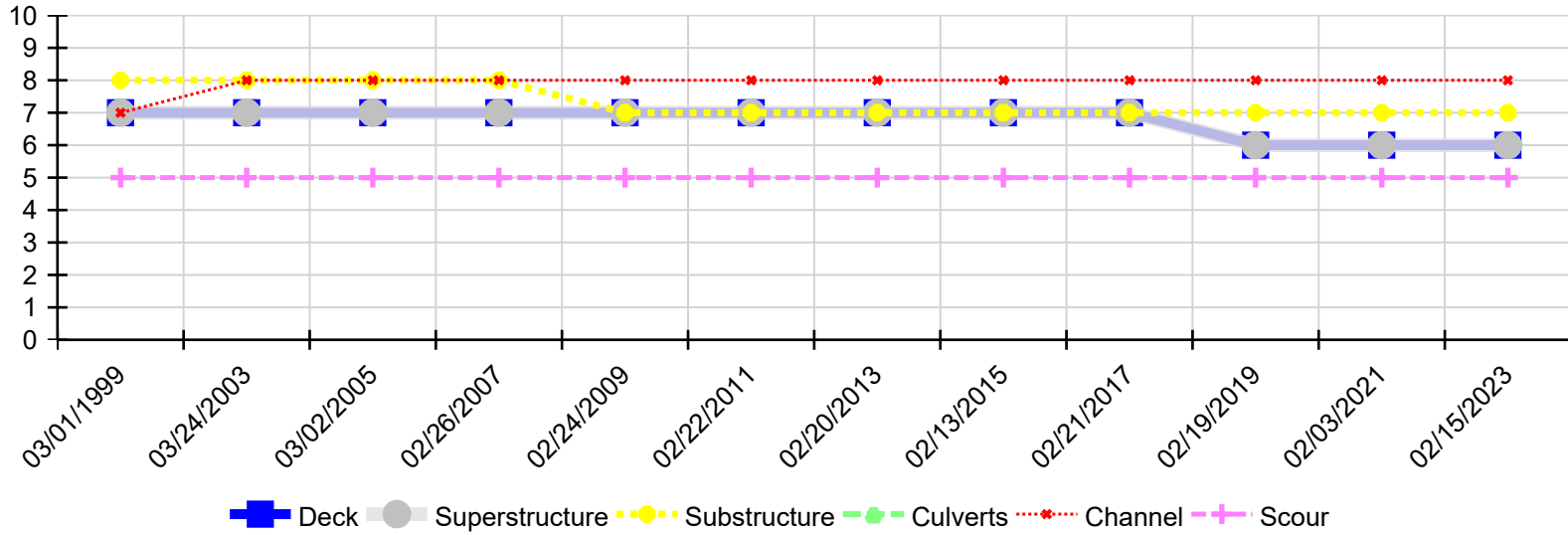
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



Asset #05736(Routine, Underwater type 2)
SH 328-01-LM 9.30 over CURRENT RIVER RELIEF
Location: 9.3 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/15/2023	6	6	7	N	8	5
02/03/2021	6	6	7	N	8	5
02/19/2019	6	6	7	N	8	5
02/21/2017	7	7	7	N	8	5
02/13/2015	7	7	7	N	8	5
02/20/2013	7	7	7	N	8	5
02/22/2011	7	7	7	N	8	5
02/24/2009	7	7	7	N	8	5
02/26/2007	7	7	8	N	8	5
03/02/2005	7	7	8	N	8	5
03/24/2003	7	7	8	N	8	5
03/01/1999	7	7	8	N	7	5