

# Bridge Inspection Report

**M0287**  
**SH 9/Fulton County**  
**over**  
**CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/16/2017
(8) STRUCTURE NUMBER	M0287	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 9 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 049	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 9/Fulton County		
(9) LOCATION	2.1 M So. Wheeling		
(11) MILEPOINT 8.348	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000009140 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.349705	(17) LONGITUDE -91.840691		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE 5	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	6 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 1	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1926	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	32.0
(29) AVERAGE DAILY TRAFFIC 1200	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	19.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	2
		(41) STRUCTURE OPEN/POSTED/CLOSED	P
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 33	(49) STRUCTURE LENGTH (ft.) 33	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.7 RIGHT 0.7		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 24.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 25.4		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 22.0		(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 25.3		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0 STATUS 49.6
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 1362	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	838	sq. ft.	672	56	110	0
	Transverse and longitudinal efflorescent cracks to soffit. Spall w/ 1' of rebar exposed to soffit between Girders 2 & 3. Spall w/ 2' of rebar exposed to soffit between Girders 10 & 11. Spalls w/ 3' of rebar exposed between Girders 9 & 10. Heavy efflorescent map cracking to Left & Right overhangs. Severe spalling to Left & Right curbs.						
1080 - Delamination/Spall/Patched Area		65			15	50	
1090 - Exposed Rebar		6			6		
1120 - Efflorescence/Rust Staining		95			35	60	
510 - Wearing Surfaces		792	sq. ft.	642	0	150	0
3220 - Crack (Wearing Surface)		150				150	
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	312	ft.	169	8	135	0
	Girder 12 is bowed inward near Abutment 1. Moderate rust and section loss to Girders 1 - 4 and 10 - 12. Girders 2 and 11 have pack rust between channels and moderate section loss to web and bottom flange. Girders 1, 3 and 10 have rust and moderate to heavy section loss with areas that are knife edged on bottom flange.						
1000 - Corrosion		135				135	
1900 - Distortion		8			8		
515 - Steel Protective Coating		1444	sq. ft.	994	0	0	450
3440 - Effectiveness (Steel Protective Coatings)		450					450
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	78	ft.	64	8	6	0
	Full height vertical cracks to Abutments 1 & 2. Abutment 1 also has horizontal cracking. Abutment 2 has vertical efflorescent cracking. I'm						
1120 - Efflorescence/Rust Staining		1			1		
1130 - Cracking (RC and Other)		13			7	6	
<b>220 - Reinforced Concrete Pile Cap/Footing</b>	1- Ben.	20	ft.	10	10	0	0
	Channel scoured 3' below footing at Right end of Abutment 1. Channel has realigned toward Abutment 1.						
6000 - Scour		10			10		
<b>311 - Movable Bearing</b>	1- Ben.	8	each	6	2	0	0
	Rust and section loss to bearings.						
1000 - Corrosion		2			2		
515 - Steel Protective Coating		16	sq. ft.	14	0	2	0
3440 - Effectiveness (Steel Protective Coatings)		2				2	
<b>313 - Fixed Bearing</b>	1- Ben.	8	each	6	2	0	0
	Rust and section loss to bearings.						
1000 - Corrosion		2			2		

Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

Bridge Inspection Report

Element Inspection

515 - Steel Protective Coating		2	sq. ft.	0		2	
<b>330 - Metal Bridge Railing</b>	1- Ben.	66	ft.	63	3	0	0
First post on Right side is bent at Abutment 1.							
7000 - Damage		3			3		
515 - Steel Protective Coating		198	sq. ft.	198			

Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 08/16/2016

Priority: C - Important

Work Code: Repair

#### Deficiency Description:

Rust and section loss to Girders 1 through 3 & 10 through 12 with Girders 1, 3, 11 & 12 having areas being knife edged to bottom flange.

Girder 12 is bowed inward near Abutment 1.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Girder 1. Areas of rust with heavy section loss to web & knife edge to bottom flange.

Stage: Assigned



PHOTO 2 Description Girder 10 has areas of rust and section loss with knife edge to bottom flange.

Inspector:

Inspection Date:

Structure Number: M0287

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3	Description	Girder 12 is bowed inward near Abutment 1.
---------	-------------	--



Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 08/11/2015

Priority: D - Routine

Work Code: Repair

---

#### Deficiency Description:

Soffit is Spalled w/ rebar exposed to deck below between Girders 2 & 3 and 9 through 11.  
Heavy efflorescent map cracking to Left and Right outside edge of deck.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Soffit between Girders 10 & 11.

Stage: Assigned



PHOTO 2      Description      Left overhang efflorescent cracks.

Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 08/11/2015

Priority: D - Routine

Work Code: Repair

---

#### Deficiency Description:

Bridge Rail

First post on Right side is bent at Abutment 1.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Bridge Rail  
First post on Right side is bent at  
Abutment 1.



Inspector:

Structure Number: M0287

Inspection Date:

Facility Carried: SH 9/Fulton County

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 08/16/2016

Priority: D - Routine

Work Code: Repair

#### Deficiency Description:

Channel is Scoured 3' below footing at Abutment 1 Right side.  
Channel has realigned towards Abutment 1.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Channel is Scoured 3' below footing at Abutment 1 Right side.

Stage: Assigned



PHOTO 2 Description Channel has realigned towards Abutment 1.