

Bridge Inspection Report

03197
SH 391 GALLOWAY
over
I 40 LOG 160.81



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03197

Inspection Date:

Facility Carried: SH 391
GALLOWAY

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/26/2017
(8) STRUCTURE NUMBER	03197	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 391 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	47940	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 40 LOG 160.81	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 391 GALLOWAY		
(9) LOCATION	I-40 & SH 391	CONDITION	
(11) MILEPOINT 4.040	(12) BASE HIGHWAY NETWORK 0	(58) DECK	5
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 5
(16) LATITUDE 34.78455	(17) LONGITUDE -92.12879	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	4
		(63) METHOD USED TO DETERMINE OPERATING RATING	1
		(64) OPERATING RATING	60.0
		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
		(66) INVENTORY RATING	36.0
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
STRUCTURE TYPE AND MATERIAL		APPRAISAL	
(43) STRUCTURE TYPE, MAIN		(67) STRUCTURAL EVALUATION	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(68) DECK GEOMETRY	3
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	2
(44) STRUCTURE TYPE, APPROACH SPANS		(71) WATERWAY ADEQUACY	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(72) APPROACH ROADWAY ALIGNMENT	7
B) TYPE OF DESIGN/CONSTR: 00 - Other		(36) TRAFFIC SAFETY FEATURE	
(45) NUMBER OF SPANS IN MAIN 4	(46) NUMBER OF APPROACH 0	36A) BRIDGE RAILINGS:	1
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1	36B) TRANSITIONS:	1
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0	36C) APPROACH GUARDRAIL:	1
		36D) APPROACH GUARDRAIL ENDS:	0
AGE OF SERVICE		(113) SCOUR CRITICAL BRIDGES	N
(27) YEAR BUILT 1962	(106) YEAR RECONSTRUCTED 0000	SUFFICIENCY RATING	2 STATUS 62.0
(42) TYPE OF SERVICE ON 6 UNDER 1		CLASSIFICATION	
(28) LANES ON 02 UNDER 05		(112) NBIS BRIDGE LENGTH	Y
(29) AVERAGE DAILY TRAFFIC 19000	(19) BYPASS DETOUR LENGTH 1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	16
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(100) STRAHNET HIGHWAY DESIGNATION	0
		(101) PARALLEL STRUCTURE DESIGNATION	N
		(102) DIRECTION OF TRAFFIC	2
		(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
GEOMETRIC DATA		NAVIGATION DATA	
(48) LENGTH OF MAX SPAN (ft.) 70	(49) STRUCTURE LENGTH (ft.) 222	(38) NAVIGATION CONTROL	N
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(111) PIER OR ABUTMENT PROTECTION	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	25.9	(39) NAV VERT CLEARANCE (ft.)	0
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31.5	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(32) APPROACH ROADWAY WIDTH (ft.)	28.9	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0		
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	29.2		
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99		
(54) VERTICAL UNDER CLEARANCE (ft.)	H 16.17		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 6		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	23.1		
PROPOSED IMPROVEMENTS			
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	256.0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	125		
(96) TOTAL PROJECT COST	577		
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003		
(114) FUTURE ADT 6500	(115) YEAR OF FUTURE ADT 2034		

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National Bridge Inventory

UNDER RECORD A

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	SH 391 GALLOWAY
(3) COUNTY CODE	119	(8) STRUCTURE NUMBER	03197
(4) PLACE CODE	47940	(9) LOCATION	I-40 & SH 391
(5) INV. ROUTE (ON/UNDER)	A 1 1 40 2	(11) MILEPOINT	160.810 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	I 40 LOG 160.81	(13A) LRS INVENTORY ROUTE	0000040330 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34. (17) LONGITUDE -92.1286944444445
			7845555555556

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	0	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	1962	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	21500		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	16.2	(48) LENGTH OF MAXIMUM SPAN	70 (49) STRUCTURE LENGTH 222
(47) TOTAL HORIZONTAL CLEARANCE	42.4		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	SH 391 GALLOWAY
(3) COUNTY CODE	119	(8) STRUCTURE NUMBER	03197
(4) PLACE CODE	47940	(9) LOCATION	I-40 & SH 391
(5) INV. ROUTE (ON/UNDER)	B 1 1 40 4	(11) MILEPOINT	160.810 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	I 40 LOG 160.81	(13A) LRS INVENTORY ROUTE	0000040330 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34. (17) LONGITUDE -92.1286944444445
			7845555555556

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	1	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	1962	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 03	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	21500		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	16.2	(48) LENGTH OF MAXIMUM SPAN	70 (49) STRUCTURE LENGTH 222
(47) TOTAL HORIZONTAL CLEARANCE	50.4		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	7000	sq. ft.	455	0	6545	0
	The deck surface has some abrasion due to the high truck volume. All spans have Spalls filled with asphalt material, all spans have Spalls and all spans have cracks on one foot centers. 0.075 inch max						
1080 - Delamination/Spall/Patched Area		345				345	
1130 - Cracking (RC and Other)		4200				4200	
1190 - Abrasion/Wear (PSC/RC)		2000				2000	
107 - Steel Open Girder/Beam	1- Ben.	1100	ft.	765	335	0	0
	Scattered areas of active rust on the flanges and webs, most common at or near the joints.						
1000 - Corrosion		335			335		
515 - Steel Protective Coating		8514	sq. ft.	0	0	8244	270
3410 - Chalking (Steel Protective Coatings)		6644				6644	
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		1600				1600	
3440 - Effectiveness (Steel Protective Coatings)		270					270
205 - Reinforced Concrete Column	1- Ben.	6	each	4	0	2	0
	Bent 3, left column, Spalls with exposed rebar. Bent 4 left column, Spalls with exposed rebar.						
1090 - Exposed Rebar		2				2	
215 - Reinforced Concrete Abutment	1- Ben.	70	ft.	70			
234 - Reinforced Concrete Pier Cap	1- Ben.	84	ft.	54	0	30	0
	Bent 2, back side, Spalls with exposed rebar. Moderate cracking on the bottom of the cap between the columns. Bent 3 ahead and back, Spalls with exposed rebar, ahead, delams. Bent 4, back side, Spalls with exposed rebar.						
1080 - Delamination/Spall/Patched Area		4				4	
1090 - Exposed Rebar		16				16	
1130 - Cracking (RC and Other)		10				10	
303 - Assembly Joint with Seal	1- Ben.	158	ft.	0	0	146	12
	The sliding plates are loose under traffic at bents 1 and 3. The left half of the sliding plate at Bent 1 is missing.						
2310 - Leakage		94				94	
2370 - Metal Deterioration or Damage		64				52	12
311 - Movable Bearing	1- Ben.	20	each	0	0	20	0
	All bearing have active rust with pitting and debris accumulation.						
1000 - Corrosion		20				20	
313 - Fixed Bearing	1- Ben.	20	each	0	0	20	0
	All bearing have active rust with pitting and debris accumulation.						
1000 - Corrosion		20				20	

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Element Inspection

330 - Metal Bridge Railing	1- Ben.	444	ft.	444			
331 - Reinforced Concrete Bridge Railing	1- Ben.	444	ft.	444			