

Bridge Inspection Report

02066
SH 367 Log 9.87
over
WEST 34TH ST, RR



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02066

Inspection Date:

Facility Carried: SH 367 Log 9.87

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/27/2016
(8) STRUCTURE NUMBER	02066	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 367 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	39020	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	WEST 34TH ST, RR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 367 Log 9.87		
(9) LOCATION	0.3 MI N I-30		
(11) MILEPOINT 9.868	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000367130 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.71273	(17) LONGITUDE -92.28079		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	4
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (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 25	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1940	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(42) TYPE OF SERVICE ON 1 UNDER 4		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 02		(64) OPERATING RATING	30.0
(29) AVERAGE DAILY TRAFFIC 7700	(19) BYPASS DETOUR LENGTH 3	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	18.0
(109) AVERAGE DAILY TRUCK TRAFFIC 3		(70) BRIDGE POSTING	2
		(41) STRUCTURE OPEN/POSTED/CLOSED	P
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 52	(49) STRUCTURE LENGTH (ft.) 1121	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 2 RIGHT 2		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	25.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(52) DECK WIDTH, OUT-TO-OUT (ft.)	32	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	25.9	(72) APPROACH ROADWAY ALIGNMENT	5
(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.)	29.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 19.92	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 6	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	12.5	SUFFICIENCY RATING	1 STATUS 14.2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	1159.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14
(95) ROADWAY IMPROVEMENT COST (\$)	306	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	3275	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2004	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 9800	(115) YEAR OF FUTURE ADT 2034	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(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

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	SH 367 Log 9.87
(3) COUNTY CODE	119	(8) STRUCTURE NUMBER	02066
(4) PLACE CODE	39020	(9) LOCATION	0.3 MI N I-30
(5) INV. ROUTE (ON/UNDER)	2 5 1 64860 0	(11) MILEPOINT	0.070 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	WEST 34TH ST, RR	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34.71275 (17) LONGITUDE -92.280722222222

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	1983
(27) YEAR BUILT	1940	(42) TYPE OF SERVICE	ON 1 UNDER 4
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	3
(29) AVERAGE DAILY TRAFFIC	159		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	20.0	(48) LENGTH OF MAXIMUM SPAN	52 (49) STRUCTURE LENGTH	1121
(47) TOTAL HORIZONTAL CLEARANCE	34.0			

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	19	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	0

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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.	35866	sq. ft.	11968	22254	1644	0
	The deck has spalls with exposed rebar and spalls filled with asphalt. See photo. The soffit at all spans have spalls with exposed rebar. See photo. A II spans have large unsealed cracks.						
1080 - Delamination/Spall/Patched Area		5962			4318	1644	
1130 - Cracking (RC and Other)		17936			17936		
107 - Steel Open Girder/Beam	1- Ben.	5605	ft.	0	2632	2945	28
	See photos and section loss sketches attached to report for areas of section loss.						
1000 - Corrosion		5605			2632	2945	28
515 - Steel Protective Coating		45961	sq. ft.	0	11491	11490	22980
205 - Reinforced Concrete Column	1- Ben.	51	each	8	26	17	0
	Columns with exposed rebar at bents 1,7,811,12,13,16,17,18,19 & 20. See photos						
1090 - Exposed Rebar		17				17	
1130 - Cracking (RC and Other)		26			26		
215 - Reinforced Concrete Abutment	1- Ben.	64	ft.	29	0	35	0
	Abutment 1 the back wall has sheared the entire length. The top of back wall is leaning in on top of beams. Closing the joint. Abutment 2 spall on the face of abutment under beam 4.						
1080 - Delamination/Spall/Patched Area		35				35	
234 - Reinforced Concrete Pier Cap	1- Ben.	744	ft.	588	112	44	0
	Spalls with exposed on the caps at bents 5,7,9,10,12,15,17,18,19,21 & 23. See photos.						
1090 - Exposed Rebar		44				44	
1130 - Cracking (RC and Other)		112			112		
305 - Assembly Joint without Seal	1- Ben.	813	ft.	78	0	708	27
	Part of the of the sliding joint plate is missing at bent 4,22 & 23. See photo. All of the sliding joint plates leak.						
2370 - Metal Deterioration or Damage		735				708	27
311 - Movable Bearing	1- Ben.	115	each	0	0	115	0
	All bearings have laminating rust with minor to moderate rotation. See photos.						
1000 - Corrosion		115				115	
313 - Fixed Bearing	1- Ben.	135	each	0	0	135	0
1000 - Corrosion		135				135	
331 - Reinforced Concrete Bridge Railing	1- Ben.	2242	ft.	0	2242		

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Bridge Inspection Report

Pictures



No overlay on the
bridge deck.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/27/2016

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Bent 4 sliding joint plate loose under traffic in the right lane.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge under contract 060395

Stage: Open



PHOTO 1 Description Bent 4 sliding joint plate loose under traffic in the right lane.

Inspector:

Structure Number: 02066

Inspection Date:

Facility Carried: SH 367 Log 9.87

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/27/2016

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 2 beam 2

Span 2 beam 3

Span 3 beam 3

Span 5 beam 4

Span 7 beam 2

See separate files showing the details of these deficiencies.

Span 7 beam 3

Span 8 beam 1

Span 9 beam 3

Span 9 beam 5

Span 17 beam 5

Span 18 beam 2

Span 18 beam 3

Span 19 beam 3

Span 19 beam 4

Span 19 beam 5

Span 20 beam 4

Span 22 beam 2

Span 22 beam 3

Span 23 beam 2

Span 23 beam 3

Span 25 beam 2

Have holes in the webs near the ends.

Photos attached.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge under contract 060395

Stage: Open

These are photos of two of the deficiencies to represent what is shown on the sketches. These photos are not meant to show all the deficiencies. The sketches will need to be examined. Those are provided as document files separate from this report.



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Bridge Inspection Report

Maintenance Needs



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Structure Number: 02066

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/27/2016

Priority: C - Important

Work Code:

Deficiency Description:

Deck joints at bents 4, 22 and 23 have section of sliding plate missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge Under Contract 061395

Stage: Assigned



PHOTO 1 Description Bent 4 sliding joint plate loose under traffic in the right lane.

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/27/2016

Priority: C - Important

Work Code:

Deficiency Description:

Columns with exposed rebar at bents 1,7,8,11,12,13,16,17,18,19 & 20. See photos Photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge Under Contract 061395

Stage: Assigned



PHOTO 1 Description Column 1 bent 7 spall with exposed rebar.

Inspector:

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Maintenance Needs

Date Reported: 04/27/2016

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

The deck surface has numerous spalls with exposed rebar and spalls filled with asphalt material.

Photo attached

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge Under Contract 061395

Stage: Monitor



PHOTO 1 Description Span 22 spalls with exposed rebar and spall filled with asphalt. Common spans 2 thru 25.

Stage: Assigned



PHOTO 2 Description Span 3 spalls with rebar and spalls filled with asphalt.

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Maintenance Needs

Date Reported: 04/27/2016

Priority: C - Important

Work Code:

Deficiency Description:

All of the bearings are rusty and most have laminated rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge Under Contract 061395

Stage: Assigned



PHOTO 1 Description Abutment 1 bearing 4 corrosion

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/27/2016

Priority: C - Important

Work Code:

Deficiency Description:

The back wall at abutment 1 has broken and is leaning on the beam ends

Work Description:

Date Repairs Completed:

Maintenance Comments:

Bridge Under Contract 061395

Stage: Assigned



PHOTO 1 Description Abutment 1 right end back wall sheer entire length.