

Bridge Inspection Report

M4029
SH 35-03 LM 8.80
over
White Oak Creek



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: M4029

Inspection Date:

Facility Carried: SH 35-03 LM 8.80

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/15/2017
(8) STRUCTURE NUMBER	M4029	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 35 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 053	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	White Oak Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 35-03 LM 8.80		
(9) LOCATION	5.8 Mi S SH 190-Grapevine		
(11) MILEPOINT 8.800	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.158284504346426	(17) LONGITUDE -92.31901461442305		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	8
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	8
B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 4	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 2	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1978	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	0
(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	66.1
(29) AVERAGE DAILY TRAFFIC 670	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	39.7
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 19	(49) STRUCTURE LENGTH (ft.) 76	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1 RIGHT 1		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 26.2		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 28.2		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 32.2		(72) APPROACH ROADWAY ALIGNMENT	6
(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.) 27.6		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:	1
(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	86.9
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	07
(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
		(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	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0

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(114) FUTURE ADT 915

(115) YEAR OF FUTURE ADT 2028

(40) NAV HORIZONTAL CLEARANCE (ft.) 0

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	2128	sq. ft.	2128			
<div>Note: 0.5" ACHM overlay on deck</div>	Deck: 28.2' wide x 76' long. Minor-sized transverse cracks is asphalt wearing surface at bents. Visible joints between units are completely grouted and grout is in excellent condition.						
510 - Wearing Surfaces		1824	sq. ft.	1824			
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	608	ft.	607	1	0	0
	Girders: 8 precast units per span / 76' total span. Units bolted transversely and longitudinally - no noted missing or loose bolts. Girders - Span 4 Unit 5: Spalling on bottom of right leg with some rebar exposed (1'). Spans 2 and 3: Some small spalls with exposed rebar on diaphragms of channel units.						
1090 - Exposed Rebar		1			1		
216 - Timber Abutment	1- Ben.	60	ft.	60			
	Backwalls: 30' each / Bents 1 & 5.						
228 - Timber Pile	1- Ben.	25	each	17	0	8	0
	Piling: 5 per bent / Bents 1-5. Bent 1 Pile 1 & 2. Moderate sized checks. Bent 2 Pile 1-3. Moderate sized checking. Bent 3 Pile 4. Moderate to large checking Bent 5 Pile 1& 4. Moderate to large sized checking. Minor weather cracking.						
1150 - Check/Shake		8				8	
234 - Reinforced Concrete Pier Cap	1- Ben.	140	ft.	139	1	0	0
	Caps: 28' each / Bents 1-5. Bent 5: Small spall on bottom face between Piles 4 & 5 with exposed rebar (1').						
1090 - Exposed Rebar		1			1		
330 - Metal Bridge Railing	1- Ben.	152	ft.	152			
	Railing: 76' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing with concrete posts.						
515 - Steel Protective Coating		380	sq. ft.	380			

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Maintenance Needs

Date Reported: 08/18/2015

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Girders - Span 4 Unit 5: Spalling on bottom of right leg with some rebar exposed (1').

Spans 2 and 3: Some small spalls with exposed rebar on diaphragms of channel units.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 2 at bent 2 unit 6 small spall in diaphragm .
Common bent 3 span 3 unit 3

Stage: Open



PHOTO 2 Description Span 4 unit 5 small spall on bottom of channel leg.

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Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Cap - Bent 5: Small spall on bottom face between Piles 4 & 5 with exposed rebar (1').

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 5 bottom of cap between pile 4 & 5 small spall with exposed rebar.