

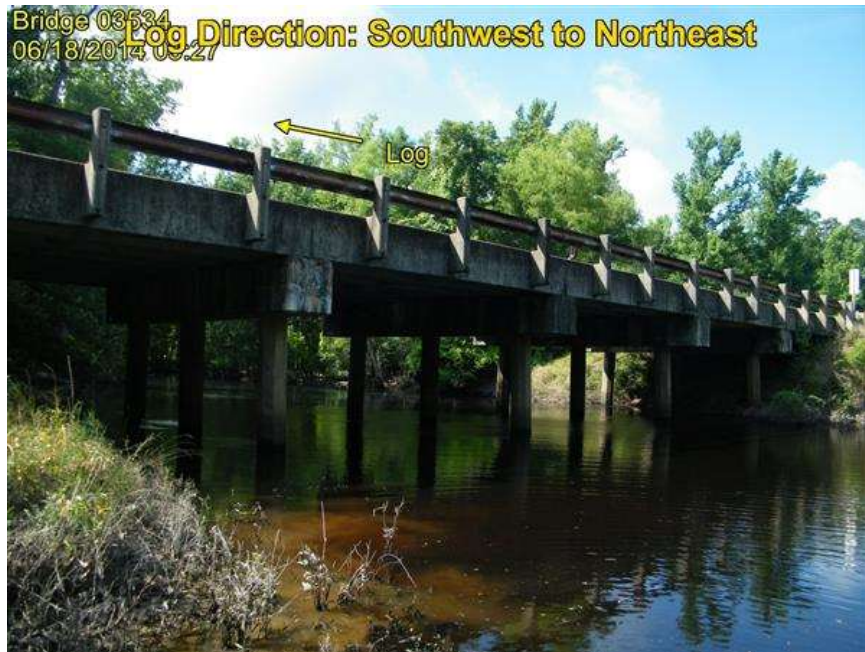
# Bridge Inspection Report

03534

SH 46-02 LM 7.14

over

Saline River Relief



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03534

Inspection Date:

Facility Carried: SH 46-02 LM 7.14

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/29/2016
(8) STRUCTURE NUMBER	03534	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 46 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	Saline River Relief	C. OTHER SPECIAL	Y 24 07/19/2017
(7) FACILITY CARRIED	SH 46-02 LM 7.14	<b>CONDITION</b>	
(9) LOCATION	1.0 Mi S SalineRvr-JenkFr	(58) DECK	7
(11) MILEPOINT 7.140	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	6 (62) CULVERT N
(16) LATITUDE	34.20411 (17) LONGITUDE -92.55352	<b>LOAD RATING AND POSTING</b>	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	2
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
<b>STRUCTURE TYPE AND MATERIAL</b>		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	22 - Channel Beam	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	<b>APPRAISAL</b>	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	6
(45) NUMBER OF SPANS IN MAIN	6 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	4
(107) DECK STRUCTURE TYPE	2 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	6
<b>AGE OF SERVICE</b>		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1963 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 9	36A) BRIDGE RAILINGS:	0
(28) LANES	ON 02 UNDER 00	36B) TRANSITIONS:	0
(29) AVERAGE DAILY TRAFFIC	1700 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36D) APPROACH GUARDRAIL ENDS:	0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	3
<b>GEOMETRIC DATA</b>		SUFFICIENCY RATING	78.7 STATUS ND
(48) LENGTH OF MAX SPAN (ft.)	19 (49) STRUCTURE LENGTH (ft.)	<b>CLASSIFICATION</b>	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5 RIGHT 0.5	(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(52) DECK WIDTH, OUT-TO-OUT (ft.)	25	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(100) STRAHNET HIGHWAY DESIGNATION	0
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(101) PARALLEL STRUCTURE DESIGNATION	N
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(102) DIRECTION OF TRAFFIC	2
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.6	(103) TEMP STRUCTURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(105) FEDERAL LANDS HIGHWAYS	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(110) DESIGNATED NATIONAL NETWORK	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(21) MAINTENANCE RESPONSIBILITY	01
<b>PROPOSED IMPROVEMENTS</b>		(22) OWNER	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	<b>NAVIGATION DATA</b>	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(111) PIER OR ABUTMENT PROTECTION	5
(96) TOTAL PROJECT COST	0	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT	1042 (115) YEAR OF FUTURE ADT	(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

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## Bridge Inspection Report

## 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.	2850	sq. ft.	2850			
Note: 3" of ACHM overlay on deck	Deck: 25' wide x 114' long. Some minor-sized cracking of asphalt wearing surface along joints of units and at bents and bridge ends.						
510 - Wearing Surfaces		2736	sq. ft.	2736	0	0	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	798	ft.	774	13	11	0
	Girders: 7 per span / 19' spans (6 spans) = 114' total (channel beam units).  Channel beam units: Spalling with steel exposed (minor section loss) along bottom of legs at locations indicated: Span 3 Unit 2: Left leg at 80% point – 2' long. Span 5 Unit 1: Right leg at mid-span – 1' long. Span 5 Unit 7: Right leg at 2/3 point – 2' long. Span 6 Unit 2: Left leg at 20% - mid-span – 6' long (double).(11' total)  Channel beam units: Cracking and delaminations along bottom of legs at locations indicated: Span 1 Unit 2: Left leg 0 -10% point – 1' long. Span 1 Unit 2: Right leg at 95% - 100% point 1' long. Span 4 Unit 5: Right leg at 80% point – 2' long. Span 4 Unit 6: Right leg at 5% point – 2' long. Span 5 Unit 1: Right leg at 85% point – 4' long. Span 6 Unit 2: Left leg at 55% point – 2' long. Span 6 Unit 6: Left leg at 95 -100% point – 1' long. (13' total)						
1080 - Delamination/Spall/Patched Area		13			13		
1090 - Exposed Rebar		11				11	
215 - Reinforced Concrete Abutment	1- Ben.	66	ft.	59	7	0	0
	Abutments: 33' each / Bents 1 & 7. Bent 1: Some moderate- to large-sized horizontal cracking near top corner of cap, under Units 2 & 3 (7').						
1130 - Cracking (RC and Other)		7			7		
227 - Reinforced Concrete Pile	1- Ben.	15	each	15			
	Piling: 3 per bent / Bents 2-6. Some very minor abrasion and loss of mortar on surface, especially near waterline.						
234 - Reinforced Concrete Pier Cap	1- Ben.	135	ft.	130	5	0	0
	Caps: 27' each / Bents 2-6. Bents 2, 3, & 5 left and Bents 2 & 3 right: End of caps have significant deterioration with heavy spalling and widespread efflorescence on top corner of cap 2-3" deep (outside deck units). (1' each location)						
1080 - Delamination/Spall/Patched Area		5			5		

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Bridge Inspection Report

Element Inspection

330 - Metal Bridge Railing	1- Ben.	228	ft.	228			
Railing: 114' each side. Coating: 2.5 square feet \ linear feet of railing.  Metal railing with concrete posts.							
515 - Steel Protective Coating		570	sq. ft.	570			

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 7/12/2012 12:00:00 AM

Priority: D - Routine

Work Code: N/A

#### Deficiency Description:

Endslopes – Spans 1 & 6: Some erosion of unprotected endslopes, right under bridge.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1      Description      Endslope -Span 1 (erosion)

Stage: Monitor



PHOTO 2      Description      Endslope - Span 5 (erosion)



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 7/12/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

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#### Deficiency Description:

Channel beam units: Cracking and delaminations along bottom of legs at locations indicated:

Span 1 Unit 2: Left leg 0 -10% point – 1' long.

Span 1 Unit 2: Right leg at 95% - 100% point 1' long.

Span 4 Unit 5: Right leg at 80% point – 2' long.

Span 4 Unit 6: Right leg at 5% point – 2' long.

Span 5 Unit 1: Right leg at 85% point – 4' long.

Span 6 Unit 2: Left leg at 55% point – 2' long.

Span 6 Unit 6: Left leg at 95 -100% point – 1' long.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Span 5 Unit 1 right (delamination)

Inspector:

Structure Number: 03534

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 7/12/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

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#### Deficiency Description:

Cap – Bent 1: Some moderate- to large-sized horizontal cracking near top corner of cap, under Units 2 & 3 (7').

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Cap - Bent 1 (cracking)

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 7/12/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

---

#### Deficiency Description:

Channel beam units: Spalling with steel exposed (minor section loss) along bottom of legs at locations indicated:

Span 3 Unit 2: Left leg at 80% point – 2' long.

Span 5 Unit 1: Right leg at mid-span – 1' long.

Span 5 Unit 7: Right leg at 2/3 point – 2' long.

Span 6 Unit 2: Left leg at 20% - mid-span – 6' long (double).

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Span 6 Unit 2 left (rebar exposed)

Stage: Monitor



PHOTO 2      Description      Span 1 Unit 2 left (rebar exposed)



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

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#### Deficiency Description:

Caps - Bents 2, 3, & 5 left and Bents 2 & 3 right: End of caps have significant deterioration with heavy spalling and widespread efflorescence on top corner of cap 2-3" deep (outside deck units).

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Cap - Bent 2 right (spalling)