

# Bridge Inspection Report

**02072**  
**US 65-20 LM 12.41**  
**over**  
**Swift Bayou**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

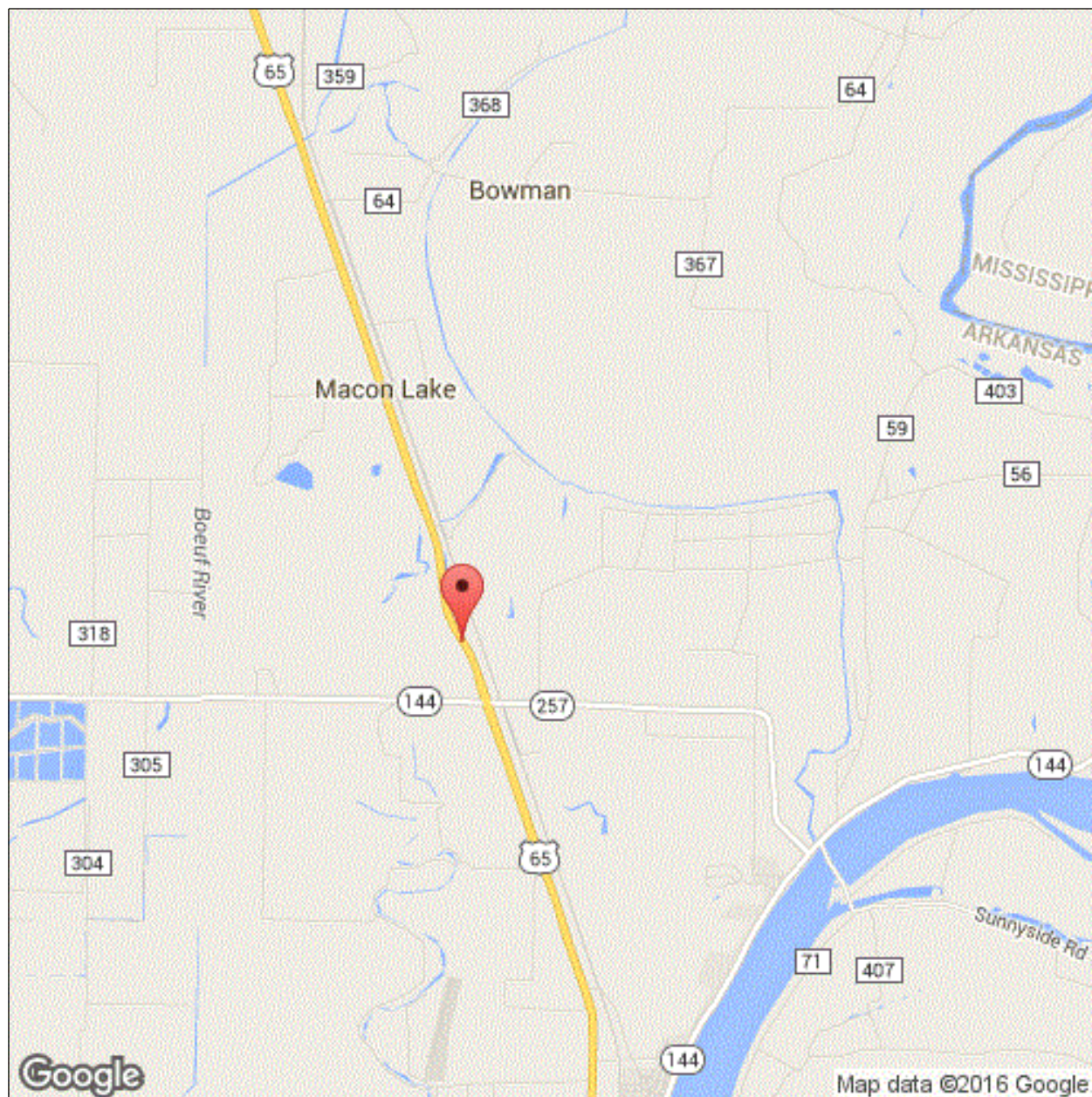
Structure Number: 02072

Inspection Date:

Facility Carried: US 65-20 LM 12.41

### Bridge Inspection Report

### Location Map



Latitude: 33.39547449112128

Longitude: -91.3125249445111

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## **Bridge Inspection Report**

### **Executive Summary**

Bridge logged from north to south.



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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/28/2019
(8) STRUCTURE NUMBER	02072	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 65 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 017	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Swift Bayou	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 65-20 LM 12.41		
(9) LOCATION	0.5 Mi N SH144-LakeVillag		
(11) MILEPOINT 12.410	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000065200 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.39547449112128	(17) LONGITUDE -91.3125249445111		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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 3	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1938	(106) YEAR RECONSTRUCTED 1989	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1	UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04	UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 5900	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(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.) 50	(49) STRUCTURE LENGTH (ft.) 152	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0	(68) DECK GEOMETRY	9
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	70.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	75	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	78.1	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 3	(34) SKEW (DEG.) 27	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	35.4	36B) TRANSITIONS:	1
(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	88.3
		STATUS	0
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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	2
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 6318	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(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
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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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
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	11370	sq. ft.	9309	391	1670	0
	Deck: 74.8' wide x 152' long. Scattered minor- to moderate-sized unsealed longitudinal and transverse cracks with reflective efflorescence on soffit (quantities detailed below) – Span 1 left (northbound): 150 sqft CS2, 600 sqft CS3. Span 1 right (southbound): 0 sqft CS2, 225 sqft CS3. Span 2 left (northbound): 25 sqft CS2, 20 sqft CS3. Span 2 right (southbound): Some diagonal cracking / 150 sqft CS2, 500 sqft CS3. Span 3 left (northbound): 15 sqft CS2, 150 sqft CS3. Span 3 right (southbound): Some diagonal cracking / 50 sqft CS2, 175 sqft CS3.  Soffit – Span 3 Bay 5: Minor spall / 1 sqft CS2.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		2060		0	390	1670	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	1950	ft.	1755	195	0	0
	Girders: 13 per span / Spans 1-3 (50' per span = 150 total span). Coating (W27x94): 6.82 square feet per linear feet of girder.  A few very scattered areas of minor surface corrosion. Paint is beginning to dull and get chalky.						
1000 - Corrosion		195		0	195	0	0
515 - Steel Protective Coating		13299	sq. ft.	0	11969	1330	0
3410 - Chalking (Steel Protective Coatings)		11969		0	11969	0	0
3440 - Effectiveness (Steel Protective Coatings)		1330		0	0	1330	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	206	ft.	181	17	8	0
	Abutments: 103' each (83' skewed cap + 10' wings each side) / Bents 1 & 4. Small vertical cracks across top of back-wall of both abutments - some having reflective efflorescence on face behind girders.						
1130 - Cracking (RC and Other)		25		0	17	8	0
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	28	each	28	0	0	0
	Piling: 14 per bent / Bents 2 & 3.						
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	156	ft.	143	13	0	0
	Caps: 78' each (skewed) / Bents 2 & 3. Bents 2 & 3: Small vertical cracks at steps. Bent 2 back: Spall with exposed rebar - right of Pile 3 Bents 2 & 3: Caps have a vertical extension to raise original elevation for the widening - two locations have minor efflorescence.						
1090 - Exposed Rebar		0		0	0	0	0

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## Element Inspection

1120 - Efflorescence/Rust Staining		8		0	8	0	0
1130 - Cracking (RC and Other)		5		0	5	0	0
<b>302 - Compression Joint Seal</b>	1- Ben.	328	ft.	190	75	15	48
Joint: 82' each (skewed) \ Bents 1-4. Bent 2: Widespread cracking and damage - 25' CS2 damage, 50' CS2 cracking. Bent 3 left: Joint material has fallen out - 48' CS4 adhesion. Bent 3 right: Loss of adhesion - 15' CS3 adhesion.							
2320 - Seal Adhesion		63		0	0	15	48
2330 - Seal Damage		25		0	25	0	0
2340 - Seal Cracking		50		0	50	0	0
<b>311 - Movable Bearing</b>	1- Ben.	39	each	0	34	5	0
Moveable bearings: 13 per bent / Bents 2 back, 2 ahead, & 3 ahead. Coating: 2 square feet each. Scattered surface corrosion with a few having minor flaking and pack rust between plates.							
1000 - Corrosion		39		0	34	5	0
515 - Steel Protective Coating		78	sq. ft.	0	0	68	10
3440 - Effectiveness (Steel Protective Coatings)		78		0	0	68	10
<b>313 - Fixed Bearing</b>	1- Ben.	39	each	0	34	5	0
Fixed bearings: 13 per bent / Bents 1, 3 back, & 4. Coating: 2 square feet each. Scattered surface corrosion with a few having minor flaking and pack rust between plates.							
1000 - Corrosion		39		0	34	5	0
515 - Steel Protective Coating		78	sq. ft.	0	0	68	10
3440 - Effectiveness (Steel Protective Coatings)		78		0	0	68	10
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	456	ft.	443	13	0	0
Railing: 152' each side + 152' for median wall. Median wall has some scattered vertical cracks (13' CS3).							
1130 - Cracking (RC and Other)		13		0	13	0	0

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 1

Description



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**Bridge Inspection Report**

**Sketches**

Inspector:

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code: N/A

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### Deficiency Description:

Joints -

Bent 3 left: Joint material has fallen out.

Bent 2: Widespread cracking and damage.

Bent 3 right: Loss of adhesion.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1 Description

Stage: Assigned



PHOTO 1 Description Joint - Bent 2 Pile 3 Left: Loss of adhesion



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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 2      Description      Joint - Bent 3 right : Loss of adhesion

Stage: Monitor



PHOTO 2      Description      Bent 2 north bound joints seal torn and leaking

Stage: Monitor



PHOTO 3      Description      Bent 3 north bound joints seals lose of adhesion and leaking

Stage: Monitor



PHOTO 4      Description      Bent 3 south bound joint seal missing and leaking



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Date Reported: 03/06/2017

Priority: D - Routine

Work Code: N/A

---

#### Deficiency Description:

Deck - all spans: Scattered minor- to moderate-sized unsealed longitudinal and transverse cracks with reflective efflorescence on soffit.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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#### Stage: Monitor



PHOTO 1      Description      Deck - Span 2 : Cracking

#### Stage: Open



PHOTO 1      Description      Span 4 north bound transversely cracking on deck



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### Maintenance Needs

Stage: Open



PHOTO 2      Description      Span 2 south bound longitudinal and vertical cracking on deck but common on north bound also

Stage: Monitor



PHOTO 2      Description      Deck - Span 3 : Cracking

Stage: Monitor



PHOTO 3      Description      Soffit - Span 3 Bay 5: Spall and reflective efflorescence

Stage: Monitor



PHOTO 4      Description      Deck - Span 2 right : Cracking



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### Maintenance Needs

Stage: Monitor



PHOTO 5      Description      Deck - Span 2 right: Cracking

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#### Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Bearings - all bents: Scattered surface corrosion with a few having minor flaking and pack rust between plates.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Open

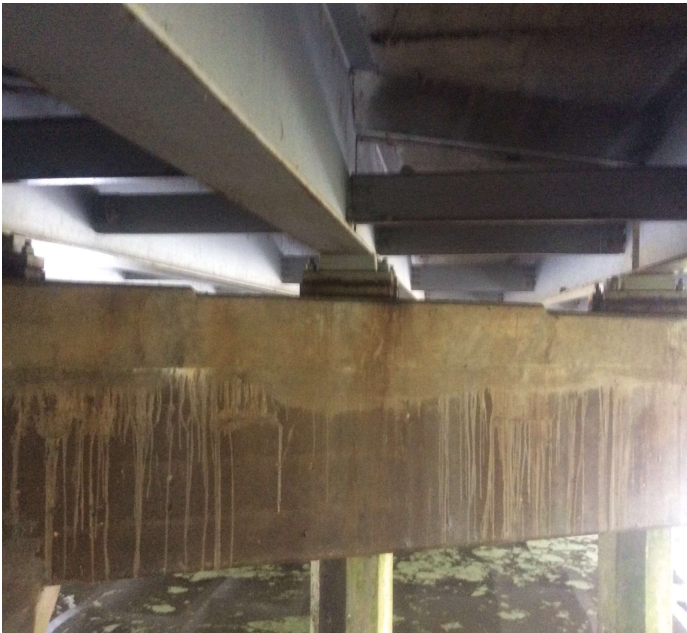


PHOTO 1      Description      Bent 2 girder 8 bearing has moderate pack rust between masonry plate and bearing

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## Maintenance Needs

Date Reported: 03/28/2019

Priority: C - Important

Work Code: N/A

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### Deficiency Description:

Log mile signs - both ends: Mileage needs correcting - should read "12.41" instead of "12.36".

### Work Description:

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### Date Repairs Completed:

### Maintenance Comments:

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### Stage: Open



PHOTO 1    Description    Log mile signs incorrect.