

Bridge Inspection Report

05017
SH 352-SEC 3
over
I 40-SEC 21



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	10
SKETCHES	11

Inspector:

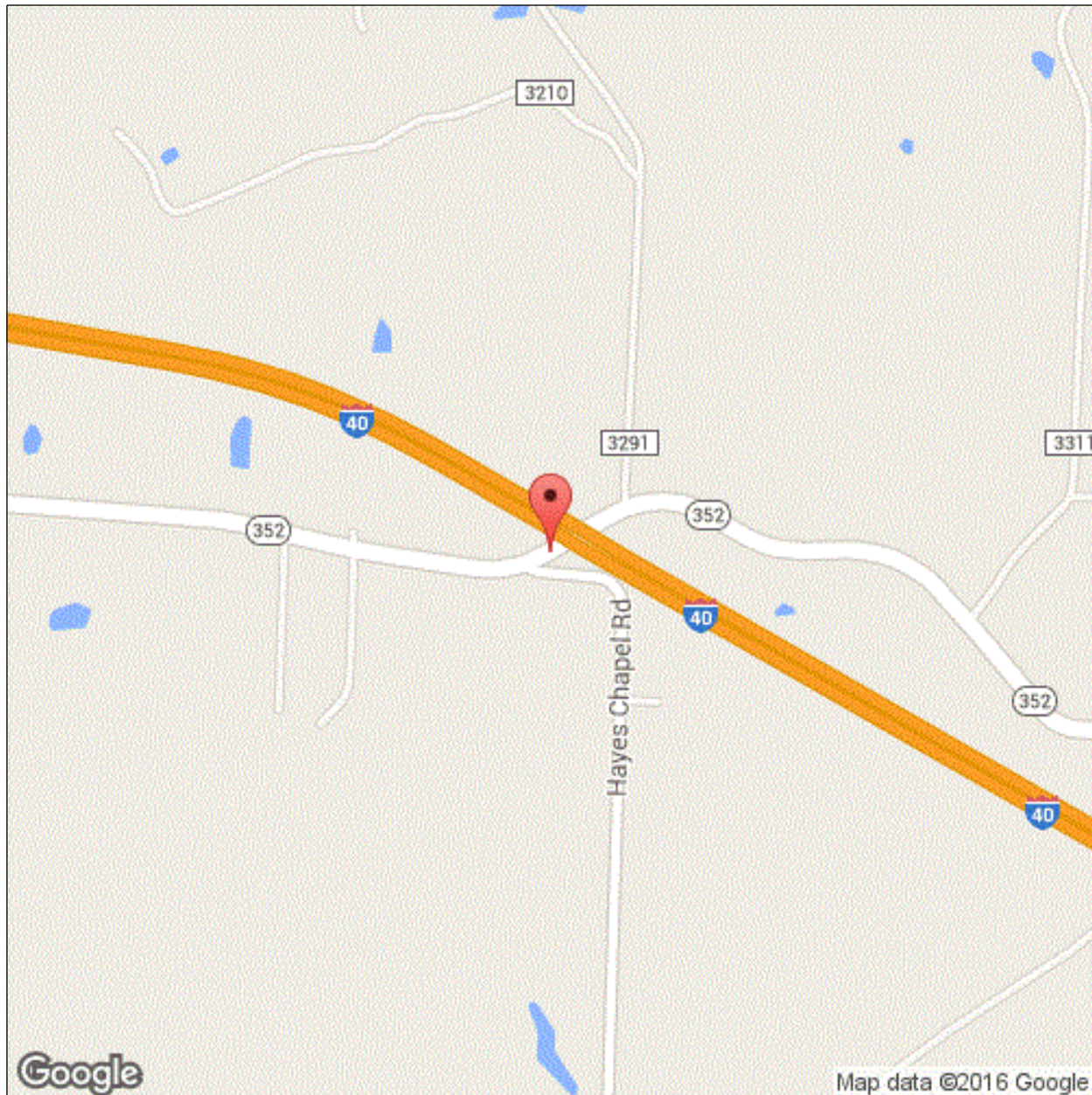
Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Location Map



Latitude: 35.47663

Longitude: -93.54718

Inspector:

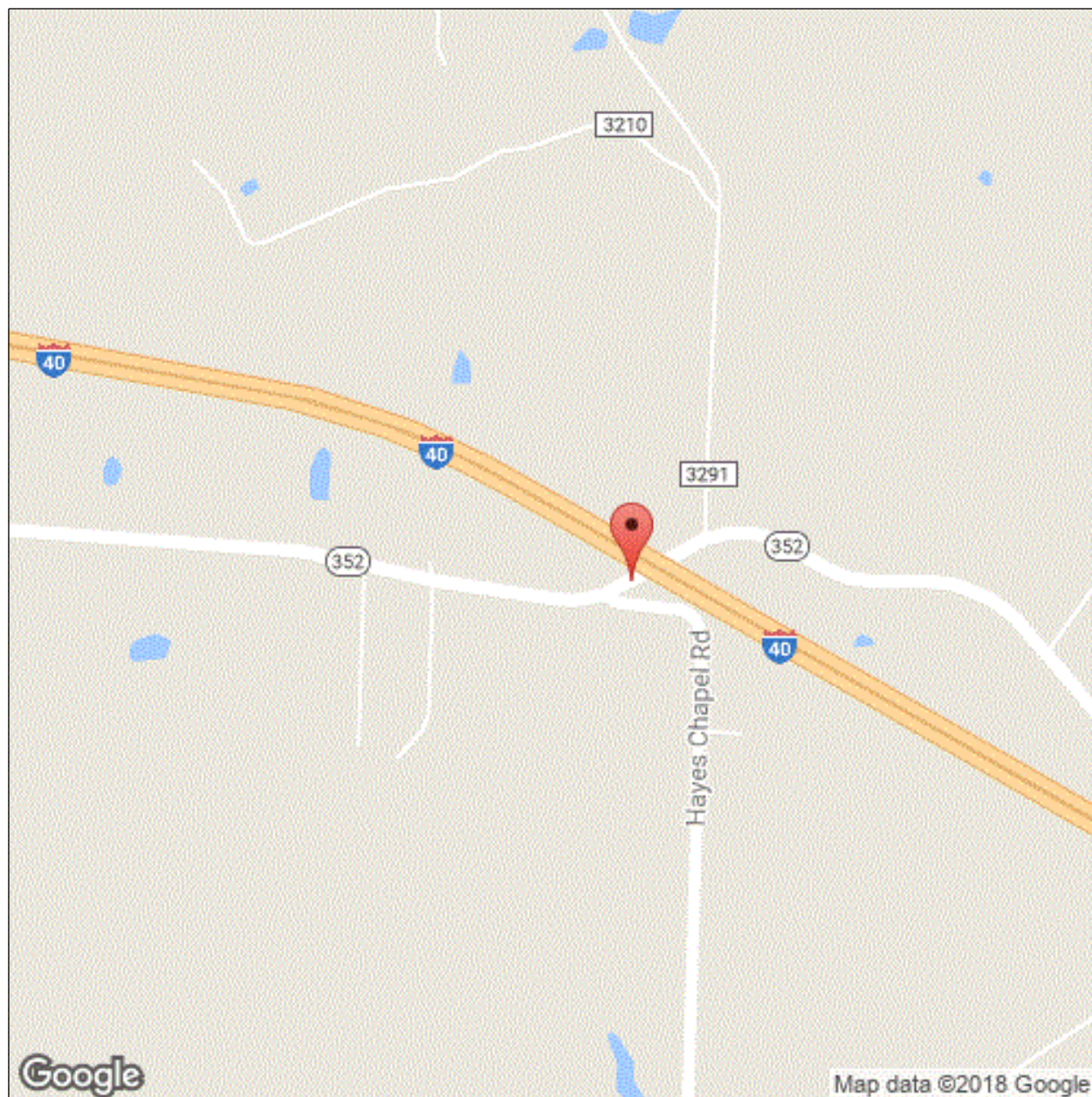
Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Location Map



Latitude: 35.47663

Longitude: -93.54718

Inspector:

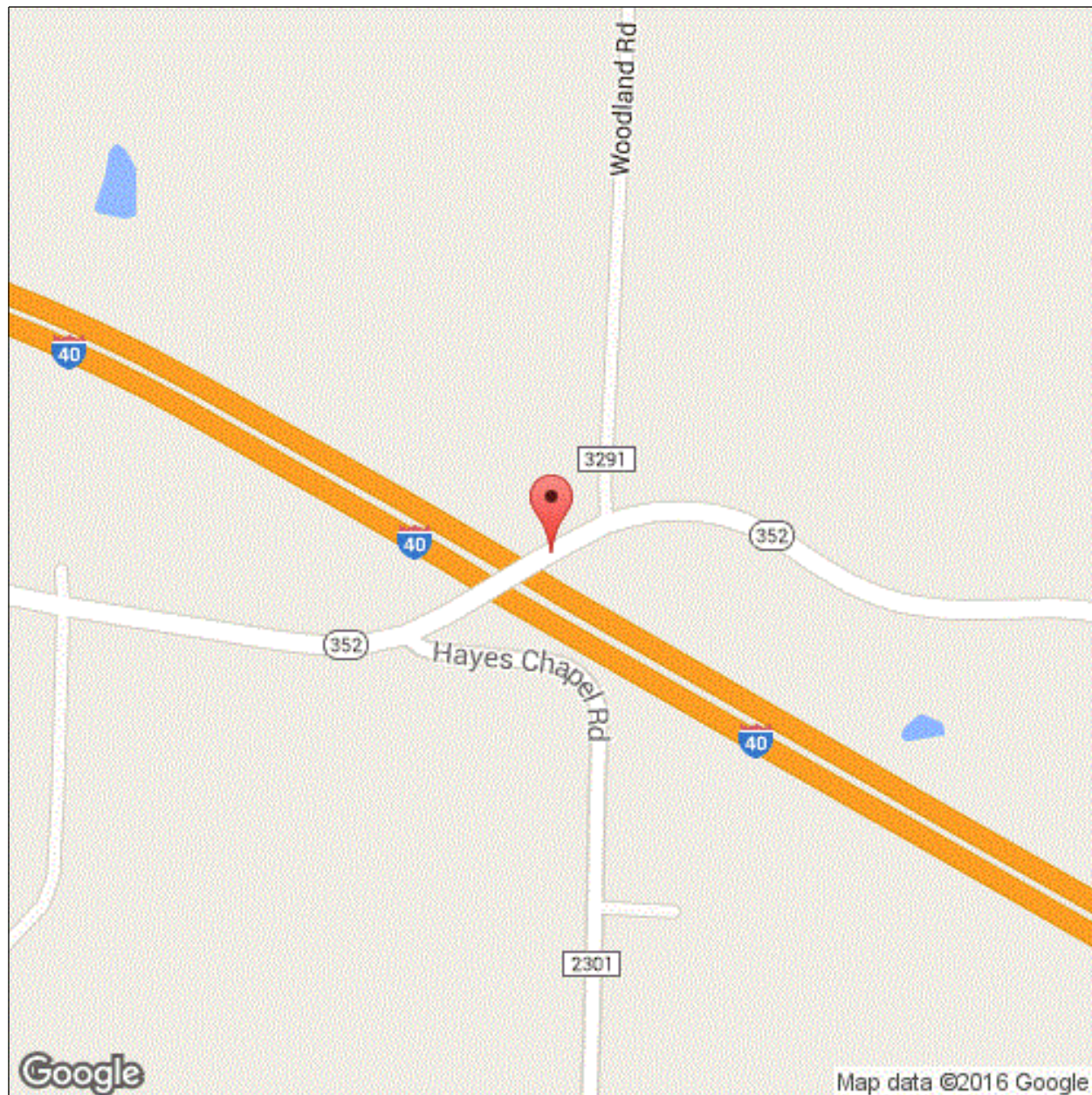
Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Location Map



Latitude: 35.47663

Longitude: -93.54718

Inspector:

Inspection Date:

Structure Number: 05017

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/08/2018
(8) STRUCTURE NUMBER	05017	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 352 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	08 (3) COUNTY CODE 071	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 40-SEC 21	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 352-SEC 3		
(9) LOCATION	10.14 M E Franklin Co Lin		
(11) MILEPOINT 10.140	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.47663	(17) LONGITUDE -93.54718		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 6
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 4	(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 1968	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 04		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 1800	(19) BYPASS DETOUR LENGTH 12	(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.) 99	(49) STRUCTURE LENGTH (ft.) 308	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 RIGHT 0.5		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 34.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(52) DECK WIDTH, OUT-TO-OUT (ft.) 37.3		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 34.1		(72) APPROACH ROADWAY ALIGNMENT	6
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(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.) 34.1		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.17		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 28.0		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 28.5		SUFFICIENCY RATING 95.4	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	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
(114) FUTURE ADT 2007	(115) YEAR OF FUTURE ADT 2028	(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	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

Inspector:

Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	11488	sq. ft.	9688	1800	0	0
	MINOR DELAM, CRACKING & SCALE THROUGHOUT DECK. MINOR CRACKING IN SOFFIT & OVERHANGS.						
1080 - Delamination/Spall/Patched Area		800			800		
1130 - Cracking (RC and Other)		1000			1000		
107 - Steel Open Girder/Beam	1- Ben.	1848	ft.	1836	10	2	0
	COND. 1 - 1846 LF - SOME MINOR SURFACE & FRECKLED RUST THROUGHOUT BEAMS. COND. 2 - 10 LF - MINOR IMPACT DAMAGE TO BEAM 1 IN SPAN 2. COND. 3 - 2 LF - MINOR RUST & SECTION LOSS IN WEB BELOW HAUNCHED AREAS OF BEAM 5 IN SPAN 1 & BEAM 3 IN SPAN 2						
1000 - Corrosion		2				2	
1900 - Distortion		10			10		
515 - Steel Protective Coating		12628	sq. ft.	11578	1050	0	0
3440 - Effectiveness (Steel Protective Coatings)		1050			1050		
205 - Reinforced Concrete Column	1- Ben.	6	each	6			
	MINOR SCALE ON COLUMNS 1 & 2 AT PIER 4. MINOR CRACKING IN COLUMN 2 AT PIER 3.						
215 - Reinforced Concrete Abutment	1- Ben.	86	ft.	60	26	0	0
	COND. 1 - 60 LF - MINOR VERTICAL CRACKING IN BACK WALLS. COND. 2 - 26 LF - MODERATE HORIZONTAL CRACKING IN LT. END OF ABUTMENT 1 & IN ABUTMENT 5.						
1130 - Cracking (RC and Other)		26			26		
234 - Reinforced Concrete Pier Cap	1- Ben.	118	ft.	78	40	0	0
	COND. 1 - 98 LF - MINOR CRACKING THROUGHOUT. MINOR SCALE IN RT. END CAP 2 COND. 2 - 18 LF - MODERATE SCALE IN LT. END CAP 2. MINOR DELAM, HONEYCOMB & HORIZONTAL CRACKING IN BK. FACE CAP 3. COND. 2 - 22 LF - MODERATE DELAM THROUGHOUT & MINOR SPALLING W / REBAR EXPOSED IN THE BOTTOM & BK. FACE OF CAP 4.						
1080 - Delamination/Spall/Patched Area		22			22		
1130 - Cracking (RC and Other)		18			18		
302 - Compression Joint Seal	1- Ben.	196	ft.	0	116	0	80
	COND. 2 - 116 LF - MINOR TO MODERATE CRACKING & DETERIORATION IN SEALS AT JOINTS 1, 3 & 5. COND. 4 - 80 LF - SEALS HAVE FAILED & FALLEN OUT AT JOINTS 2 & 4.						
2330 - Seal Damage		196			116		80

Inspector:

Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Element Inspection

311 - Movable Bearing	1- Ben.	24	each	0	24	0	0
MINOR TO MODERATE RUST & PACK RUST ON ALL BEARINGS.							
1000 - Corrosion		24			24		
515 - Steel Protective Coating		96	sq. ft.	0	56	40	
313 - Fixed Bearing	1- Ben.	24	each	0	24	0	0
MINOR RUST & PACK RUST ON ALL BEARINGS.							
1000 - Corrosion		24			24		
515 - Steel Protective Coating		96	sq. ft.	0	96		
321 - Reinforced Concrete Approach Slab	1- Ben.	2346	sq. ft.	2046	300	0	0
MINOR CRACKING THROUGHOUT.							
1130 - Cracking (RC and Other)		300			300		
330 - Metal Bridge Railing	1- Ben.	621	ft.	621			
Aluminum							
331 - Reinforced Concrete Bridge Railing	1- Ben.	621	ft.	621			
MINOR SCALE IN CONCRETE.							

Inspector:

Inspection Date:

Structure Number: 05017

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Pictures

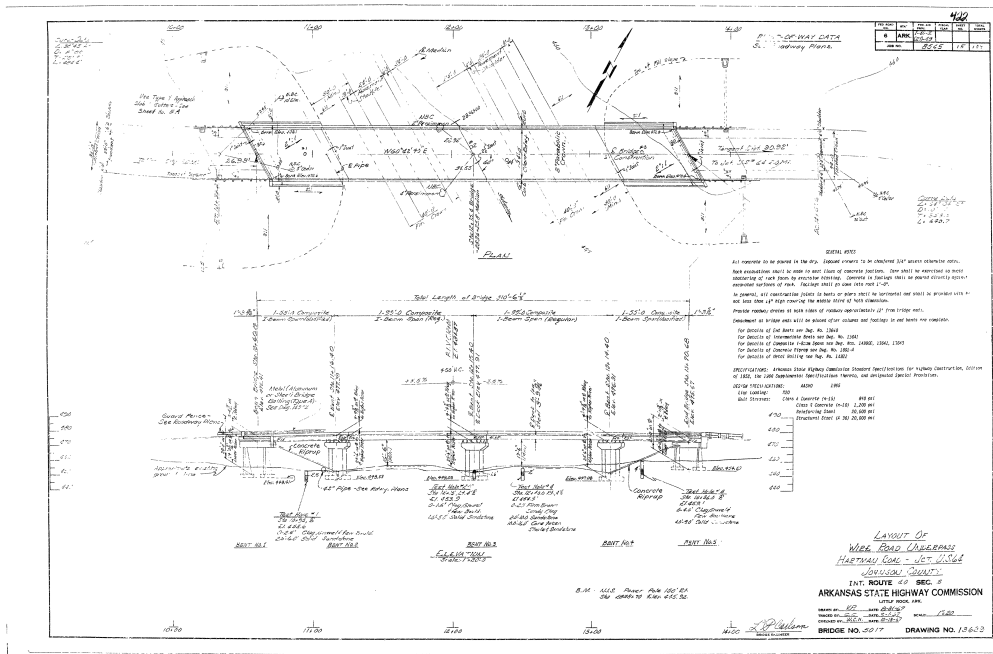


PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 05017

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Deck joints #'s 2 & 4.
Joint material is missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Seal Failed at Joints.

Inspector:

Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Maintenance Needs

Date Reported: 02/08/2018

Priority: D - Routine

Work Code:

Deficiency Description:

MINOR CRACKING THROUGHOUT DECK.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Typ. Cracking in Deck.

Inspector:

Structure Number: 05017

Inspection Date:

Facility Carried: SH 352-SEC 3

Bridge Inspection Report

Maintenance Needs

Date Reported: 02/08/2018

Priority: D - Routine

Work Code:

Deficiency Description:

MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN BK. & BT. FACES OF CAP 4. SPALLING DUE TO REBAR TOO CLOSE TO SURFACE.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Delam, Cracking & Spalling W / Rebar Exposed in Bk. & Bt. Faces of Cap 4. Spalling due to Rebar too close to Surface.