

Bridge Inspection Report

06425
US 270
over
SH 7



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

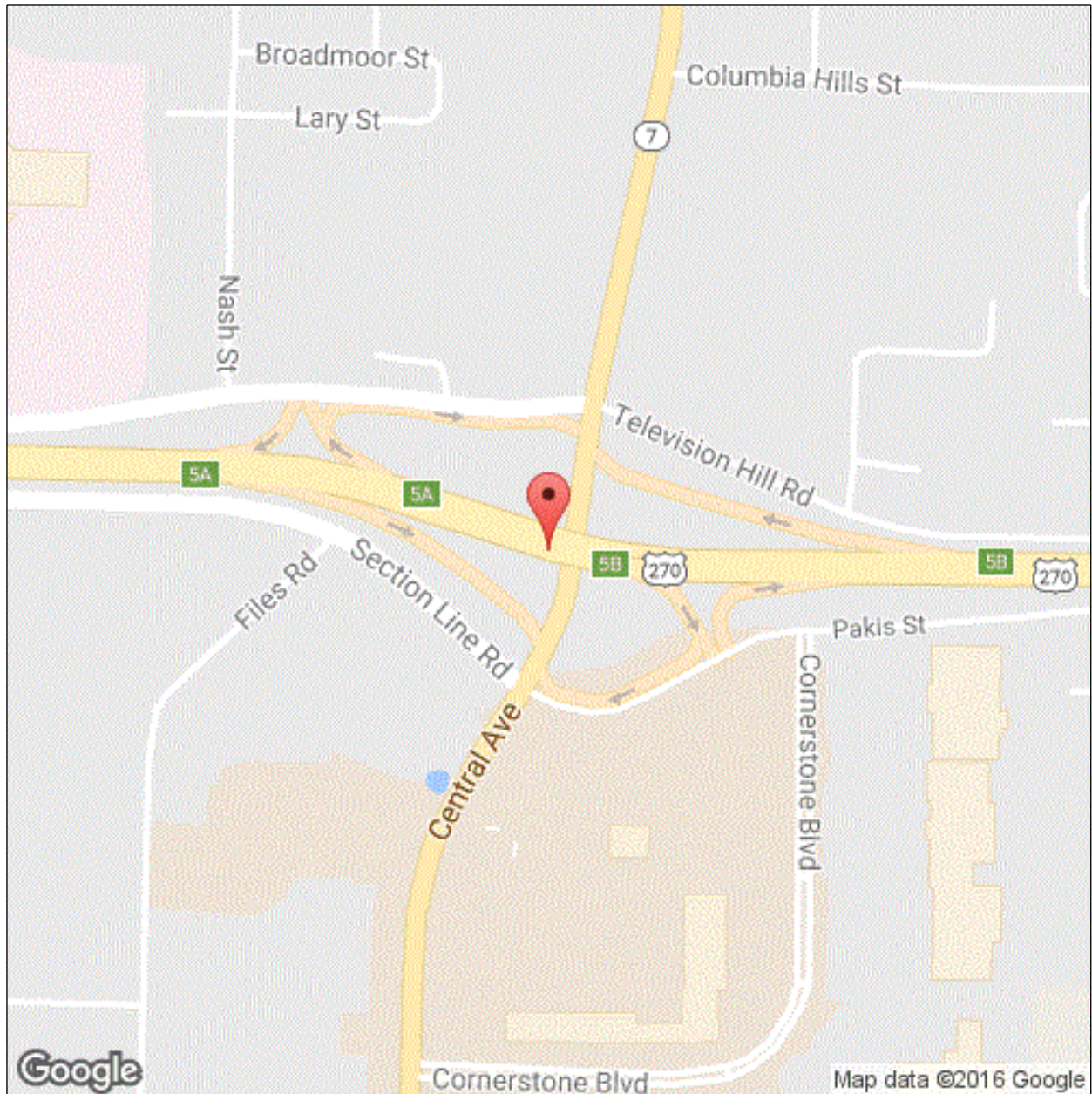
Structure Number: 06425

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Facility Carried: US 270

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Location Map



Latitude: 34.464996

Longitude: -93.060387

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Latitude: 34.464996

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Location Map



Latitude: 34.464996

Longitude: -93.060387

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Executive Summary

Job #060942, Drawing #44095 for layout.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/28/2018
(8) STRUCTURE NUMBER	06425	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 270 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 051	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	32540	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	SH 7	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 270	CONDITION	
(9) LOCATION	JCT US 270 BYPS&SH 7	(58) DECK	8
(11) MILEPOINT 22.880	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE 0000270050	(13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(16) LATITUDE 34.464996	(17) LONGITUDE -93.060387	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	7
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	7
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	N
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1994 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 1	36A) BRIDGE RAILINGS:	1
(28) LANES	ON 06 UNDER 05	36B) TRANSITIONS:	1
(29) AVERAGE DAILY TRAFFIC	30000 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013	36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	N
GEOMETRIC DATA		SUFFICIENCY RATING	98.0 STATUS 0
(48) LENGTH OF MAX SPAN (ft.)	88 (49) STRUCTURE LENGTH (ft.)	CLASSIFICATION	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	96.1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(52) DECK WIDTH, OUT-TO-OUT (ft.)	101.2	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	12
(32) APPROACH ROADWAY WIDTH (ft.)	98.1	(100) STRAHNET HIGHWAY DESIGNATION	0
(33) BRIDGE MEDIAN	3 (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.)	48.9	(103) TEMP STRUCTURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(105) FEDERAL LANDS HIGHWAYS	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 17.25	(110) DESIGNATED NATIONAL NETWORK	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 6.2	(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	7.6	(21) MAINTENANCE RESPONSIBILITY	01
PROPOSED IMPROVEMENTS		(22) OWNER	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	N
(95) ROADWAY IMPROVEMENT COST (\$)	0	(111) PIER OR ABUTMENT PROTECTION	1
(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	33518 (115) YEAR OF FUTURE ADT	(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
12 - Reinforced Concrete Deck	1- Ben.	15787	sq. ft.	14512	1275	0	0
	8/28/2018-KRM & RLS- Overhang soffit has cracks with efflorescence. The widened sections of a the deck on both sides has transverse cracking. The original deck has longitudinal cracks.						
1120 - Efflorescence/Rust Staining		88		0	88	0	0
1130 - Cracking (RC and Other)		1187		0	1187	0	0
107 - Steel Open Girder/Beam	1- Ben.	2028	ft.	2028	0	0	0
	8/28/2018-KRM & RLS- Beams 2&12 (the original exterior beams) are chalking on the original exposed faces. Beam 13 is chalking on the outside face. Beam 11 is chalking at various locations.						
515 - Steel Protective Coating		17663	sq. ft.	16211	1452	0	0
3410 - Chalking (Steel Protective Coatings)		1452		0	1452	0	0
205 - Reinforced Concrete Column	1- Ben.	12	each	10	2	0	0
	8/28/2018-KRM & RLS- Bent 3, column 1, spalled. Column 6 has minor horizontal cracks.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		1		0	1	0	0
215 - Reinforced Concrete Abutment	1- Ben.	203	ft.	185	18	0	0
	8/28/2018 - KRM & RLS - Cracks with efflorescence in the back wall of bent 1 and 4.						
1120 - Efflorescence/Rust Staining		18		0	18	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	203	ft.	203	0	0	0
	8/28/2018-KRM & RLS- No noticeable defects at this inspection.						
301 - Pourable Joint Seal	1- Ben.	202	ft.	129	73	0	0
	8/28/2018-KRM & RLS- The seals at bents 1,2 & 3 have some adhesion loss with minor leakage. All joints have debris impaction.						
2310 - Leakage		21		0	21	0	0
2320 - Seal Adhesion		20		0	20	0	0
2350 - Debris Impaction		32		0	32	0	0
310 - Elastomeric Bearing	1- Ben.	26	each	26	0	0	0
	8/28/2018-KRM & RLS- No noticeable defects at this inspection.						
311 - Movable Bearing	1- Ben.	26	each	26	0	0	0
	8/28/2018-KRM & RLS- No noticeable defects at this inspection.						
313 - Fixed Bearing	1- Ben.	26	each	25	1	0	0
	8/28/2018 - KRM & RLS - Bent 4 bearing 1 has corrosion.						
1000 - Corrosion		1		0	1	0	0

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331 - Reinforced Concrete Bridge Railing	1- Ben.	474	ft.	439	29	6	0
8/28/2018 - KRM & RLS - Cracks in all rails. Spall on right rail span 2.							
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		34		0	28	6	0

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Pictures

PHOTO 1

Description

PHOTO 1

Description

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Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 2

Description

Inspector:

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Structure Number: 06425

Facility Carried: US 270

Bridge Inspection Report

Pictures

PHOTO 3

Description

Inspector:

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Bridge Inspection Report

Sketches

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Maintenance Needs