

Bridge Inspection Report

M2957
SH 356/Cleburne Co
over
CADRON CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

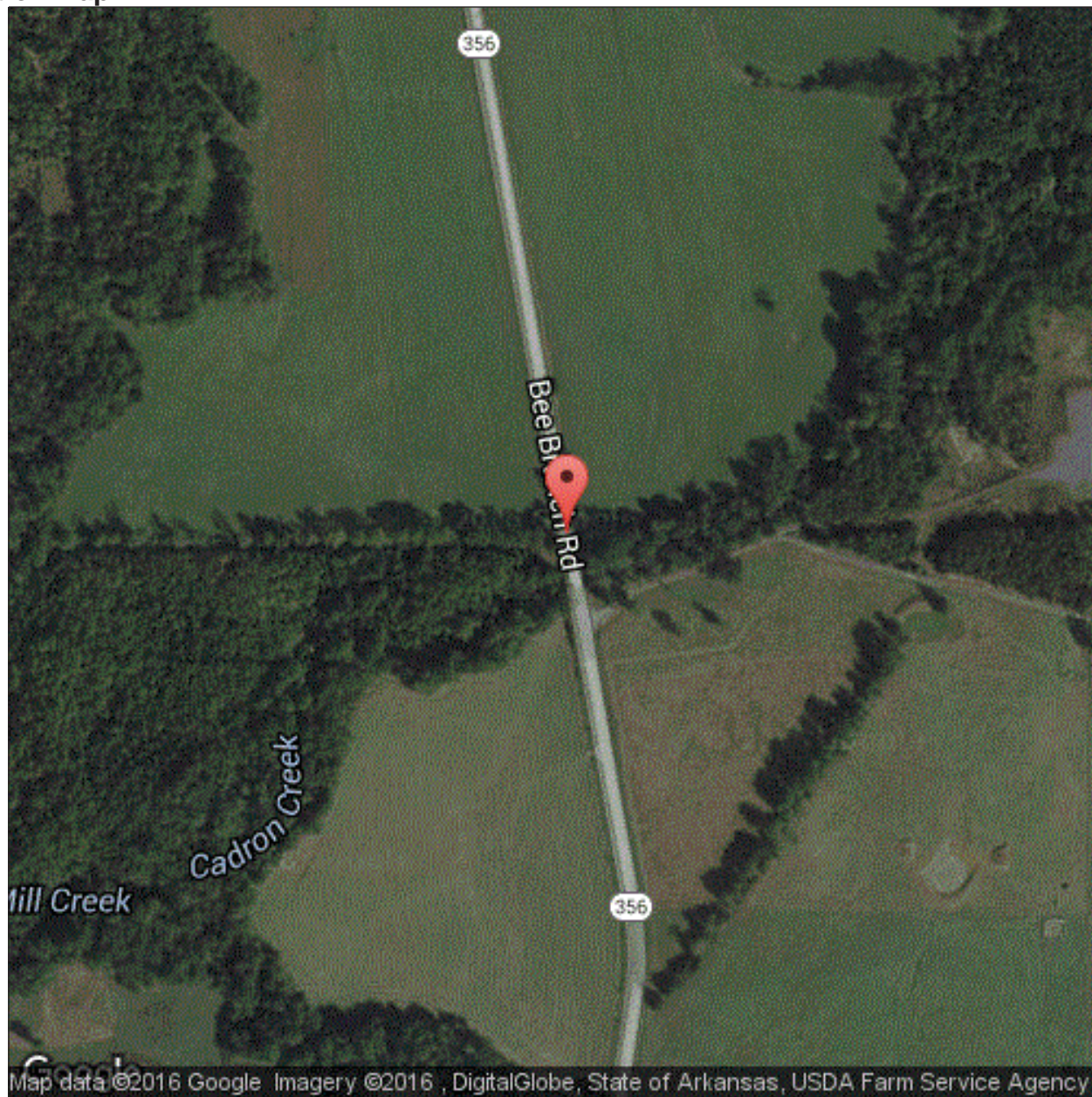
Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Location Map



Latitude: 35.40636

Longitude: -92.20907

Inspector:

Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Location Map



Latitude: 35.40636

Longitude: -92.20907

Inspector:

Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Executive Summary

Log Mile running South.

Inspector:

Structure Number: M2957

Inspection Date:

Facility Carried: SH 356/Cleburne Co

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION						INSPECTIONS		
(1) STATE CODE	056 - Arkansas					(90) INSPECTION DATE	02/09/2016	
(8) STRUCTURE NUMBER	M2957					(91) DESIGNATED INSPECTION FREQUENCY	24	
(5) INV. ROUTE (ON/UNDER)	1	3	1	356	0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE	
(2) HIGHWAY AGENCY	05	(3) COUNTY CODE	023				A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000					B. UNDERWATER INSPECTION	N	
(6) FEATURES INTERSECTED	CADRON CREEK					C. OTHER SPECIAL	N	
(7) FACILITY CARRIED	SH 356/Cleburne Co					CONDITION		
(9) LOCATION	1.7 MI N JCT SH25-356					(58) DECK	7	
(11) MILEPOINT	3.140	(12) BASE HIGHWAY NETWORK	0				(59) SUPERSTRUCTURE	7
(13A) LRS INVENTORY ROUTE	0000000000		(13B) SUBROUTE NUMBER	00		(60) SUBSTRUCTURE	7	
(16) LATITUDE	35.40636	(17) LONGITUDE	-92.20907				(61) CHANNEL & CHANNEL PROTECTION	6
(98A) BORDER BRIDGE CODE						(62) CULVERT	N	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT					LOAD RATING AND POSTING		
STRUCTURE TYPE AND MATERIAL						(31) DESIGN LOAD	4	
(43) STRUCTURE TYPE, MAIN						(63) METHOD USED TO DETERMINE OPERATING RATING	1	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete					(64) OPERATING RATING	48.0	
B) TYPE OF DESIGN/CONSTR:	04 - Tee Beam					(65) METHOD USED TO DETERMINE INVENTORY RATING	1	
(44) STRUCTURE TYPE, APPROACH SPANS						(66) INVENTORY RATING	29.0	
A) KIND OF MATERIAL/DESIGN:	0 - Other					(70) BRIDGE POSTING	5	
B) TYPE OF DESIGN/CONSTR:	00 - Other					(41) STRUCTURE OPEN/POSTED/CLOSED	A	
(45) NUMBER OF SPANS IN MAIN	8	(46) NUMBER OF APPROACH	0			APPRAISAL		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1			(67) STRUCTURAL EVALUATION	6	
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0			(68) DECK GEOMETRY	4	
AGE OF SERVICE						(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N	
(27) YEAR BUILT	1950	(106) YEAR RECONSTRUCTED	1984			(71) WATERWAY ADEQUACY	4	
(42) TYPE OF SERVICE	ON 1	UNDER 5				(72) APPROACH ROADWAY ALIGNMENT	8	
(28) LANES	ON 02	UNDER 00				(36) TRAFFIC SAFETY FEATURE		
(29) AVERAGE DAILY TRAFFIC	2100	(19) BYPASS DETOUR LENGTH	20			36A) BRIDGE RAILINGS:	1	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014						36B) TRANSITIONS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1						36C) APPROACH GUARDRAIL:	0
GEOMETRIC DATA						36D) APPROACH GUARDRAIL ENDS:	1	
(48) LENGTH OF MAX SPAN (ft.)	20	(49) STRUCTURE LENGTH (ft.)	160			(113) SCOUR CRITICAL BRIDGES	5	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT 0				SUFFICIENCY RATING	0	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)						STATUS	87.6	
(52) DECK WIDTH, OUT-TO-OUT (ft.)						32.2		
(32) APPROACH ROADWAY WIDTH (ft.)						34.8		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0			(112) NBIS BRIDGE LENGTH	Y	
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)						(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)						(100) STRAHNET HIGHWAY DESIGNATION	0	
(54) VERTICAL UNDER CLEARANCE (ft.)	N	0				(101) PARALLEL STRUCTURE DESIGNATION	N	
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N	99.9				(102) DIRECTION OF TRAFFIC	2	
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0						(103) TEMP STRUCTURE	
PROPOSED IMPROVEMENTS						(105) FEDERAL LANDS HIGHWAYS	0	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY					(110) DESIGNATED NATIONAL NETWORK	0	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0					(20) TOLL	3	
(94) BRIDGE IMPROVEMENT COST (\$)	0					(21) MAINTENANCE RESPONSIBILITY	01	
(95) ROADWAY IMPROVEMENT COST (\$)	0					(22) OWNER	01	
(96) TOTAL PROJECT COST	0					(37) HISTORICAL	5	
(97) YEAR OF IMPROVEMENT COST ESTIMATE						NAVIGATION DATA		
(114) FUTURE ADT	3351	(115) YEAR OF FUTURE ADT	2028			(38) NAVIGATION CONTROL	0	
						(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: M2957

Inspection Date:

Facility Carried: SH 356/Cleburne Co

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.	5568	sq. ft.	5346	222	0	0
	Deck at all spans has several moderate sized transverse unsealed cracks. Soffit has - Spall with 1' rebar exposed between Girders 2 & 3 @ Span 1. Spall with 2.5' rebar exposed between Girders 4 & 5 @ Span 1. 1' of spall with 1' rebar exposed between Girders 4 & 5 @ beginning of Span 2. 2' of spall with 3' rebar exposed near Girder 1 @ end of Span 2. 1' of spall with 6" rebar exposed between Girders 3 & 4 @ beginning Span 3. 1' of spall with 8" rebar exposed between Girders 2 & 3 @ end of Span 3. 1' of spall with 1' rebar exposed between Girders 4 & 5 @ end of Span 3. 1' of spall with 18" rebar exposed between Girders 1 & 2 @ end of Span 4. 1' of spall with 8" rebar exposed between Girders 3 & 4 @ Span 4. 1' of spall with 1' rebar exposed between Girders 3 & 4 @ Span 5. 1.5' of spall with 2' rebar exposed between Girders 4 & 5 @ Span 5. 3' rebar exposed between Girders 1 & 2 @ Span 6. 10" rebar exposed between girders 2 & 3 @ span 6. 3' of spall with 4' rebar exposed between Girders 4 & 5 @ Bent 7.						
1090 - Exposed Rebar		22			22		
1130 - Cracking (RC and Other)		200			200		
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	797	ft.	793	0	4	0
	Full height vertical cracks to Girders 2, 3 & 4 @ beginning of Span 4 and Girder 3 @ beginning of Span 8.						
1130 - Cracking (RC and Other)		4				4	
205 - Reinforced Concrete Column	1- Ben.	35	each	0	35	0	0
	Scour @ Bents 1, 2 & 3. Scaling to bottom of columns.						
1190 - Abrasion/Wear (PSC/RC)		28			28		
6000 - Scour		7			7		
215 - Reinforced Concrete Abutment	1- Ben.	98	ft.	81	17	0	0
	8 full height vertical cracks at Abutment 1. Minor efflorescent cracking to Abutment 2.						
1120 - Efflorescence/Rust Staining		3			3		
1130 - Cracking (RC and Other)		14			14		
220 - Reinforced Concrete Pile Cap/Footing	1- Ben.	130	ft.	0	130	0	0
	Footings are exposed at Bents 4, 5, 6 & 7.						
6000 - Scour		130			130		
234 - Reinforced Concrete Pier Cap	1- Ben.	246	ft.	246			

Inspector:

Structure Number: M2957

Inspection Date:

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Element Inspection

301 - Pourable Joint Seal	1- Ben.	704	ft.	384	320		
		Left and right longitudinal joints have minor leakage, forming efflorescence on the sides of concrete girders below.					
331 - Reinforced Concrete Bridge Railing	1- Ben.	320	ft.	320			

Inspector:

Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Pictures



No asphalt overlay on the deck.



Inspector:

Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 02/09/2016

Priority: C - Important

Work Code: Clean

Deficiency Description:

Drift @ Spans 6 & 7 restricting flow, creating scour at Spans 4, 5 & 6.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Drift @ Spans 6 & 7 restricting flow,
creating scour at Spans 4, 5 & 6.

Inspector:

Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 02/09/2016

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Full height vertical cracks to Girders 2, 3 & 4 @ beginning of Span 4, and Girder 3 @ beginning of Span 8.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Full height vertical cracks to Girders 2, 3 & 4 @ beginning of Span 4.

Stage: Assigned



PHOTO 2 Description Girder 3 @ beginning of Span 8.

Inspector:

Inspection Date:

Structure Number: M2957

Facility Carried: SH 356/Cleburne
Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 02/09/2016

Priority: C - Important

Work Code: Repair

Deficiency Description:

Abutments 1 & 2
Roadway settlement.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Roadway settlement @ Abutment 1.

Stage: Assigned



PHOTO 2 Description Roadway settlement @ Abutment 2.