

Bridge Inspection Report

02842
SH 1-01 LM 18.45
over
Cyress Creek



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

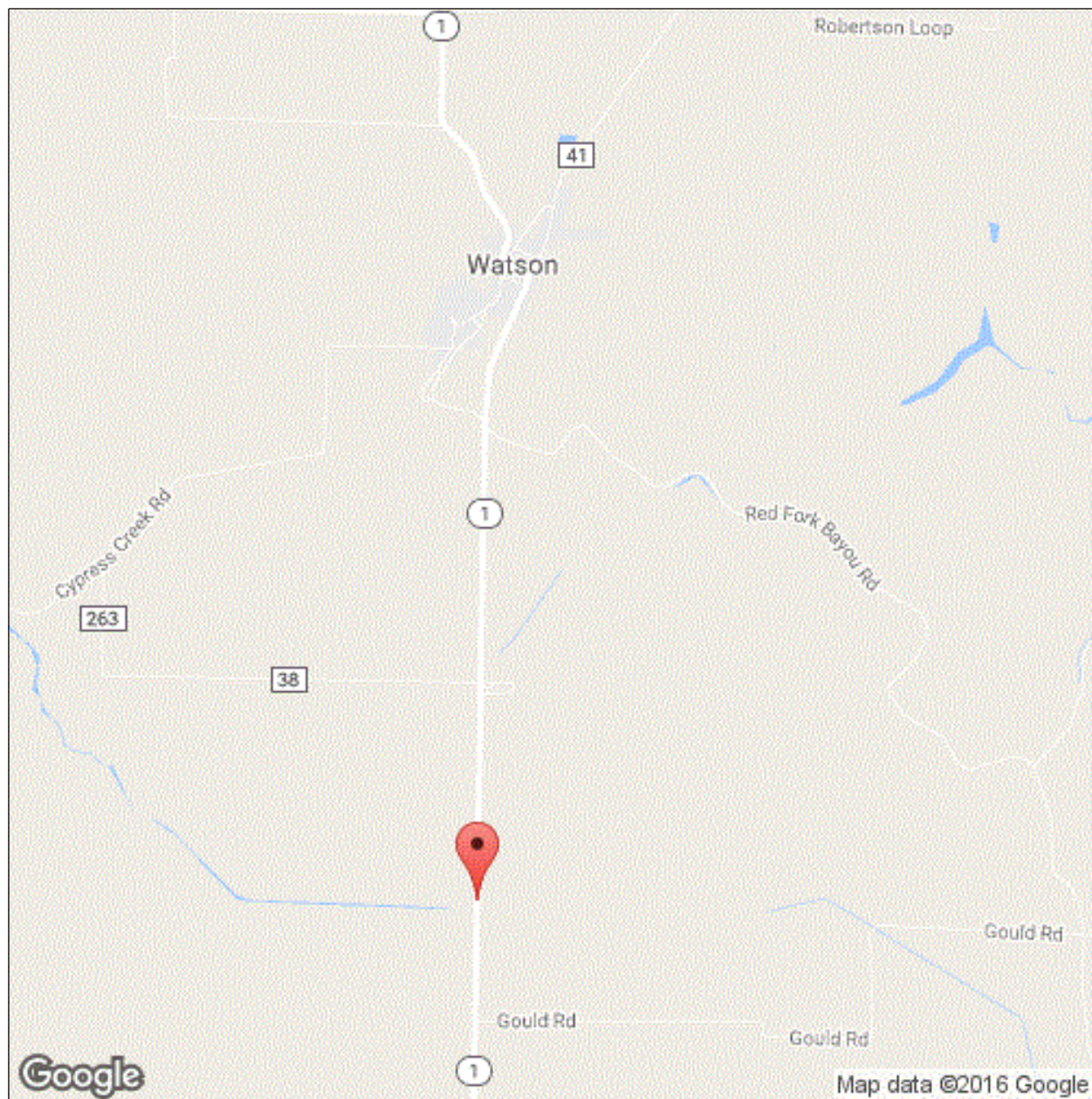
Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Location Map



Latitude: 33.85359197942737

Longitude: -91.2589755532477

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/09/2019
(8) STRUCTURE NUMBER	02842	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 1 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02	(3) COUNTY CODE	041
(4) PLACE CODE	00000	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	Cyress Creek	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	SH 1-01 LM 18.45	C. OTHER SPECIAL	N
(9) LOCATION	4.1 Mi N SH 138-Watson		
(11) MILEPOINT	18.450	(12) BASE HIGHWAY NETWORK	0
(13A) LRS INVENTORY ROUTE	0000000000	(13B) SUBROUTE NUMBER	00
(16) LATITUDE	33.85359197942737	(17) LONGITUDE	-91.2589755532477
(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:	1 - Concrete	(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR:	22 - Channel Beam	(60) SUBSTRUCTURE	4
(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	4	(46) NUMBER OF APPROACH	0
(107) DECK STRUCTURE TYPE	2	(108A) WEARING SURFACE	6
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1952	(106) YEAR RECONSTRUCTED	0000
(42) TYPE OF SERVICE	ON 1 UNDER 5	(31) DESIGN LOAD	2
(28) LANES	ON 02 UNDER 00	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(29) AVERAGE DAILY TRAFFIC	620	(64) OPERATING RATING	60
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(66) INVENTORY RATING	36
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	19	(49) STRUCTURE LENGTH (ft.)	76
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5 RIGHT 0.5	(67) STRUCTURAL EVALUATION	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	23.0	(68) DECK GEOMETRY	4
(52) DECK WIDTH, OUT-TO-OUT (ft.)	24.6	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(32) APPROACH ROADWAY WIDTH (ft.)	25.9	(71) WATERWAY ADEQUACY	8
(33) BRIDGE MEDIAN	0	(72) APPROACH ROADWAY ALIGNMENT	8
(34) SKEW (DEG.)	0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0	36A) BRIDGE RAILINGS:	0
(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	36B) TRANSITIONS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	24.6	36C) APPROACH GUARDRAIL:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36D) APPROACH GUARDRAIL ENDS:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(113) SCOUR CRITICAL BRIDGES	5
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	SUFFICIENCY RATING	49.9
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	STATUS	1
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	565	(103) TEMP STRUCTURE	
(115) YEAR OF FUTURE ADT	2028	(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	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

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

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.	1870	sq. ft.	1867	3	0	0
	Deck: 24.6' wide x 76' long. Wearing surface: Asphalt overlay has large cracks at seams of units and at bents. Soffit - Span 1 Unit 4 @ 1/4 span: Some efflorescence showing across bottom of unit deck (efflorescence - CS2 3 sqft).						
1120 - Efflorescence/Rust Staining		3		0	3	0	0
510 - Wearing Surfaces		1755	sq. ft.	878	0	877	0
3220 - Crack (Wearing Surface)		877		0	0	877	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	532	ft.	467	65	0	0
	Girders: 7 precast units per span / Spans 1-4 - 4 spans @ 19' each = 76' total. Units are bolted transversely and longitudinally - scattered loose and missing bolts. Minor flexure cracks, mainly from 1/4 to 3/4 span points. Span 1 Unit 4 @ 1/4 span: Transverse cracking - two cracks running up both legs and across bottom of deck (crack - CS2 1').						
1130 - Cracking (RC and Other)		65		0	65	0	0
215 - Reinforced Concrete Abutment	1- Ben.	68	ft.	68	0	0	0
	Abutments: 34' each / Bents 1 & 5. Endslope - Bents 1-5: - Minor settlement (4-5" @ Bent 1, 10-12" @ Bent 5) of fill material under bottom face of cap - full length of abutment.						

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Element Inspection

228 - Timber Pile	1- Ben.	20	each	0	7	10	3
<p>Piling: 5 per bent / Bents 2-5. Bent 2 Piles 1, 2, 3, & 5, Bent 3 Pile 3, and Bent 4 Pile 3 & 5 have all been repaired/replaced (spliced). Bent 2 pile 2 has a connection splice on top with no collar.</p> <p>Bent 2 Piles 1-3 & 5: Checking (CS2 x 3). Bent 2 Piles 4: has large checking</p> <p>Bent 3 Pile 1: Hollow-sounding 4' down from top (decay - CS3). Bent 3 Pile 2-4: Checking (CS2 x 3). Pile 2 has a slight bow (as-built condition). Bent 3 Pile 5: Moderate checking (CS3). Bent 3 pile 3 has splice connection with no collar.</p> <p>Bent 4 Pile 1: Hollow-sounding (decay - CS3). Bent 4 Pile 2: Top 1' is hollow with a 2" core (decay - CS3). Remaining pile had minor checking. Bent 4 Pile 3: Top 1' is hollow Bent 4 Pile 4: Hollow from ground up 3'. Bent 4 Pile 5: No notable defects. Bent 4 piles 3&4 have splices with no collars.</p> <p>Bent 5: Only 10-12" of piling visible. Bent 5 Pile 2: Rotten - no bearing capacity . Bent 5 Pile 3: Hollow with little to no bearing capacity decay . Bent 5 Piles 4 is hollow and crushing. Bent 5 pile 5 has heavy decay.</p>							
1020 - Connection		4		0	0	4	0
1140 - Decay/Section Loss		7		0	0	4	3
1150 - Check/Shake		9		0	7	2	0
234 - Reinforced Concrete Pier Cap	1- Ben.	75	ft.	61	4	10	0
<p>Caps: 25' each / Bents 2-4. Bent 2: Small areas of delaminations and spalling on bottom face of cap - reinforcing steel exposed with some rust and section loss (spall - CS2 2', exp rebar - CS2 2'). Bent 4: Small areas of delaminations and spalling on right ahead and bottom face of cap - reinforcing steel exposed with some rust and section loss (exp rebar - CS3 10')</p>							
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1090 - Exposed Rebar		12		0	2	10	0
330 - Metal Bridge Railing	1- Ben.	152	ft.	152	0	0	0
<p>Railing: 76' each side. Coating: 2.5 square feet per linear feet of railing. Left side railing has chipping and flaking throughout. Right side railing dull and has no luster.</p>							
515 - Steel Protective Coating		380	sq. ft.	0	380	0	0
3410 - Chalking (Steel Protective Coatings)		190		0	190	0	0
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		190		0	190	0	0

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/7/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Endslope - Bents 1-5: - Minor settlement (4-5" @ Bent 1, 10-12" @ Bent 5) of fill material under bottom face of cap - full length of abutment.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Endslope - Bent 1 (minor settlement)

Stage: Monitor



PHOTO 2 Description Endslope - Bent 5 (settlement)

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/14/2015 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Endslopes - Span 1 & 4: Vines and other vegetation growing on slopes and up piling at Bents 2 & 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Endslope - Span 1 left (vegetation)

Stage: Monitor



PHOTO 2 Description Bent 4 Pile 5 (vegetation)

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Maintenance Needs

Date Reported: 01/20/2017

Priority: C - Important

Work Code: N/A

Deficiency Description:

Signs - Bent 5: Object markers, posts, and log mile signs are missing (have been knocked down) on both side - Object marker and broken post currently lying down behind railing on right side.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Sign - Bent 5 right (knocked down)

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Maintenance Needs

Date Reported: 01/09/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Cap -

Bent 2: Small areas of delaminations and spalling on bottom face of cap - reinforcing steel exposed with some rust and section loss.

Bent 4: Small areas of delaminations and spalling on right ahead and bottom face of cap - reinforcing steel exposed with some rust and section loss

Work Description:

Review and repair as necessary.

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description Bent 4 cap has spall with exposed rebar under and on edges of cap.

Inspector:

Structure Number: 02842

Inspection Date:

Facility Carried: SH 1-01 LM 18.45

Bridge Inspection Report

Maintenance Needs

Date Reported: 01/09/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Piling:

Changed MN from G to D 2019

Bent 2 Piles 4: Moderate checking.

Bent 3 Pile 1: Hollow-sounding 4' down from top.

Bent 3 Pile 5: Moderate checking.

Bent 4 Pile 1: Hollow-sounding.

Bent 4 Pile 3: Top 1' is hollow.

Bent 4 Pile 4 hollow from ground up 3'.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description