

Bridge Inspection Report

M1830
SH 119-02- LM 2.21
over
DRAINAGE DITCH



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

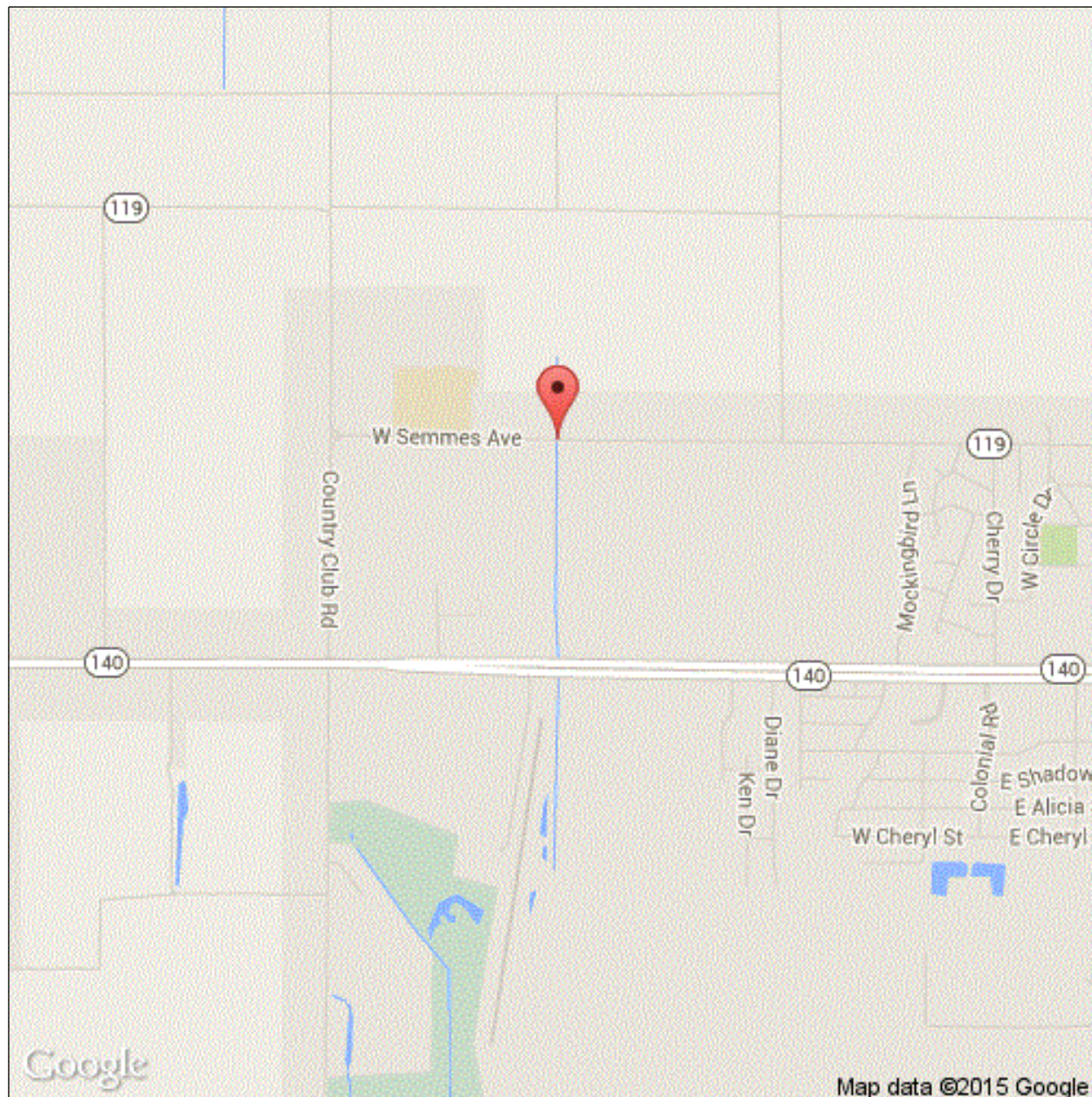
Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Location Map



Latitude: 35.70525

Longitude: -90.00848

Inspector:

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Bridge Inspection Report

Location Map



Latitude: 35.70525

Longitude: -90.00848

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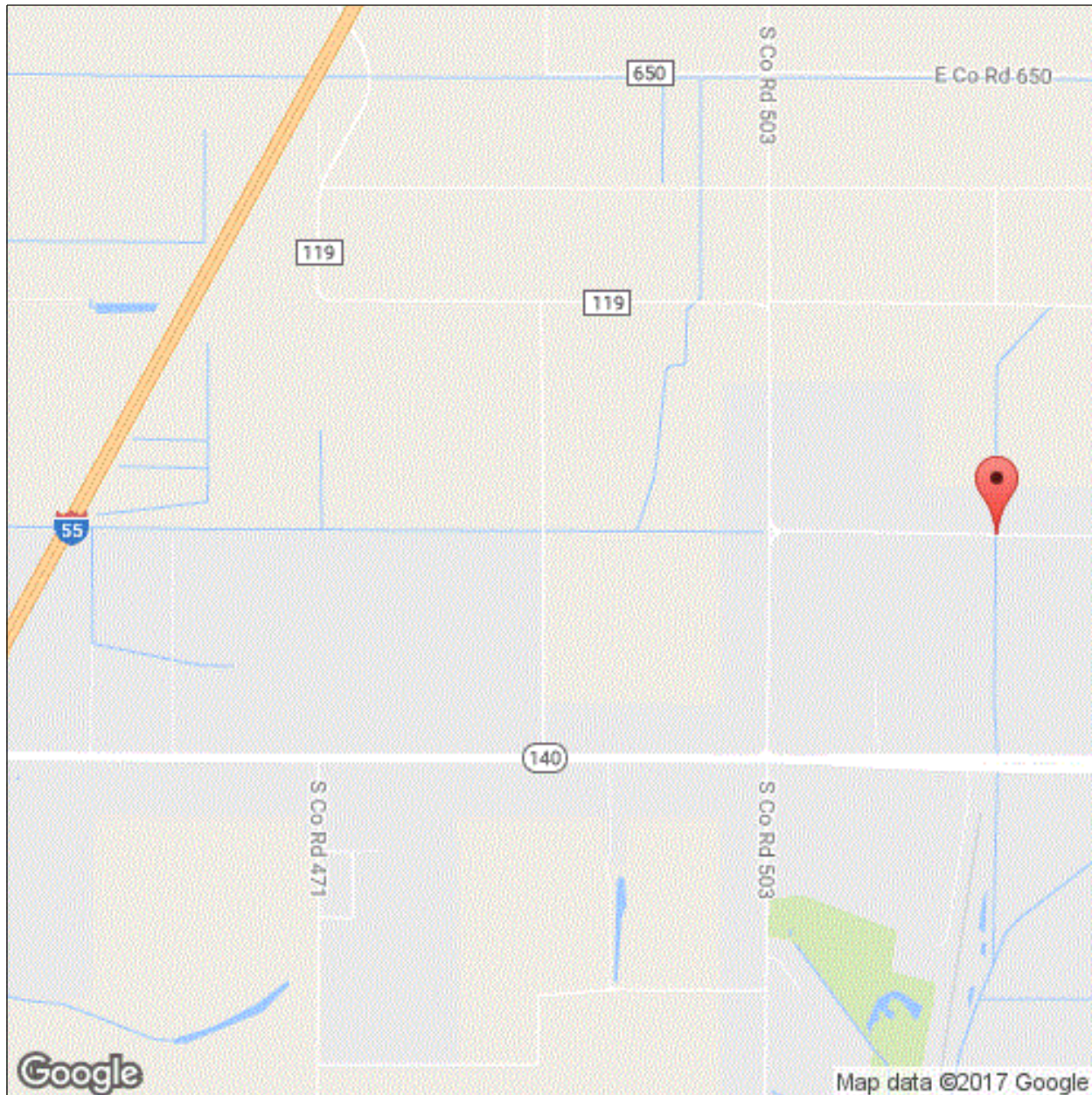
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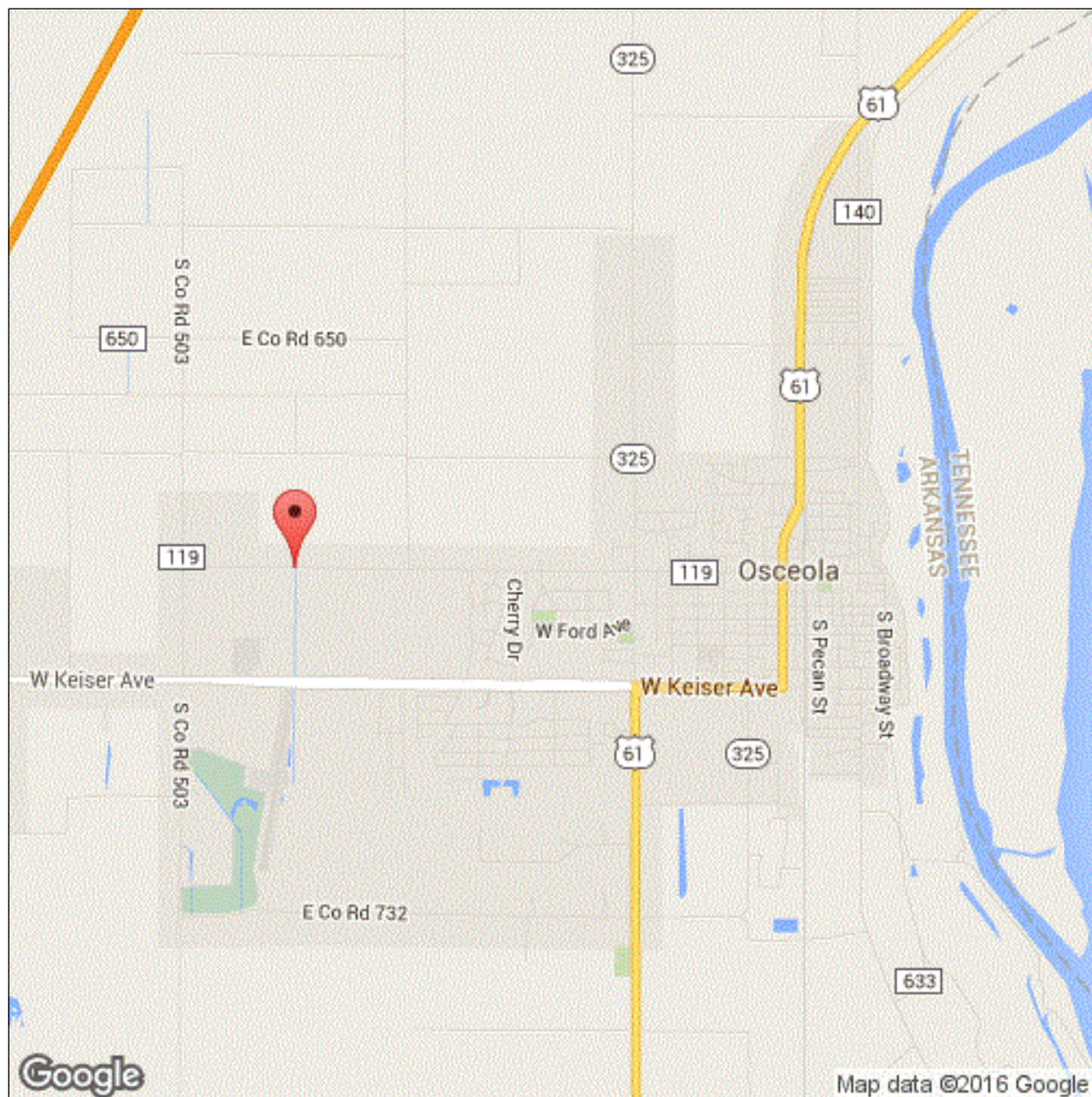
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Bridge Inspection Report

Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/17/2019
(8) STRUCTURE NUMBER	M1830	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 119 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 093	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	50020	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	DRAINAGE DITCH	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 119-02- LM 2.21		
(9) LOCATION	2.2 MI W JCT SH 61 & 119		
(11) MILEPOINT 2.210	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.70525	(17) LONGITUDE -90.00848		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 1	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1927	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	0
(42) TYPE OF SERVICE ON 1	UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02	UNDER 00	(64) OPERATING RATING	35.0
(29) AVERAGE DAILY TRAFFIC 1900	(19) BYPASS DETOUR LENGTH 4	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	21.1
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	3
		(41) STRUCTURE OPEN/POSTED/CLOSED	P
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 20	(49) STRUCTURE LENGTH (ft.) 31	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5	RIGHT 0.5	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	28.2	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29	(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.)	36.1	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	29.2	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	55.7
		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	16
(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 1952	(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	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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	894	sq. ft.	793	48	53	0
1080 - Delamination/Spall/Patched Area		20		0	0	20	0
1090 - Exposed Rebar		14		0	0	14	0
1120 - Efflorescence/Rust Staining		19		0	0	19	0
1130 - Cracking (RC and Other)		48		0	48	0	0
510 - Wearing Surfaces		863	sq. ft.	552	110	201	0
3220 - Crack (Wearing Surface)		311		0	110	201	0
107 - Steel Open Girder/Beam	1- Ben.	124	ft.	0	0	123	1
1000 - Corrosion		123		0	0	122	1
1020 - Connection		1		0	0	1	0
515 - Steel Protective Coating		769	sq. ft.	0	0	0	769
3440 - Effectiveness (Steel Protective Coatings)		769		0	0	0	769
215 - Reinforced Concrete Abutment	1- Ben.	92	ft.	69	23	0	0
1080 - Delamination/Spall/Patched Area		5		0	5	0	0
1130 - Cracking (RC and Other)		18		0	18	0	0
330 - Metal Bridge Railing	1- Ben.	62	ft.	0	62	0	0
1000 - Corrosion		62		0	62	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

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Bridge Inspection Report

Pictures

PHOTO 1

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Date Reported: 8/15/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Steel girders have rust cover with initial section loss to web and bottom flange. Steel girders 1-4 have 1/4 in loss of section on top flange.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description M1830 06-02-2015 Span 1 girders 1& 4
sectionloss to top flange.

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: M1830

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description M1830 06-02-2015 view of underside span 1

Inspector:

Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/07/2016

Priority: C - Important

Work Code:

Deficiency Description:

Soffit has longitudinal cracks with some rust stains and delaminated areas along Lt and Rt edges of slab. Soffit has a few small delaminated areas near centerline and a few small spalls with rebar exposed

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description M1830 06-02-2015 Span 1 left side spall

Stage: Monitor



PHOTO 2 Description M1830 06-02-2015 Span 1 right side impending spalls.

Inspector:

Inspection Date:

Structure Number: M1830

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description M1830 06-02-2015 Span 1 right side
near girder 3 spall

Inspector:

Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Date Reported: 8/15/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Girder lacing and stay plates have a few rivets missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description M1830 06-02-2015 Span 1 girder 3 missing rivet.

Inspector:

Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Date Reported: 7/23/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Girder 2 has a 4 in. x 6 in. hole rusted thru stay plate near Bent 2

Girder 4 has a 3 in. x 3 in. hole rusted thru stay plate at Bent 2

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Open



PHOTO 2 Description M1830 06-02-2015 Span 1 girder 2 at bent 2 stay plate

Inspector:

Inspection Date:

Structure Number: M1830

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description M1830 06-02-2015 Span 1 girder 4
over bent 2 stay plate

Inspector:

Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/06/2017

Priority: C - Important

Work Code:

Deficiency Description:

Left side of slab near bent 2 has a 1 ft. diameter x 1 ½ in. deep spall with exposed rebar, right side near mid span has a 2 ft. x 3 ft. x 1 ½ in. deep spall & a 2 ft. long x 6 in. wide x 1 ½ in. deep spall, both with exposed rebar. See 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: M1830

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/17/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Minor roadway embankment erosion near right corner of bent 1 (Northeast corner).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: M1830

Inspection Date:

Facility Carried: SH 119-02- LM 2.21

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/17/2018

Priority: C - Important

Work Code:

Deficiency Description:

Girder #4 3 ft. from bent 2 has a 1 in. wide x 1 ft. long area of complete section loss with heavy section loss to web.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description