

Bridge Inspection Report

M1832
SH 119-02- LM 6.71
over
DITCH NO. 41



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

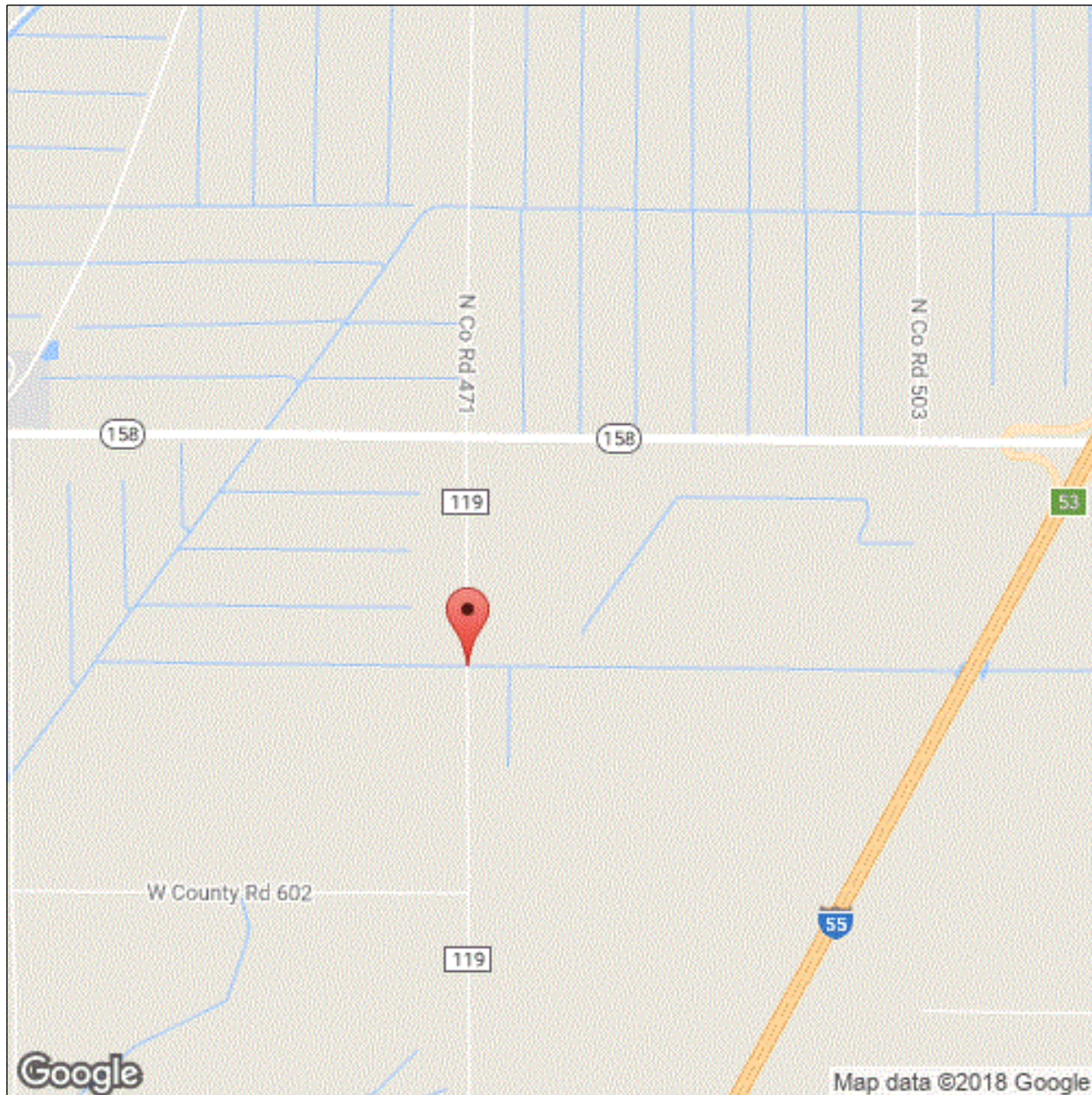
Structure Number: M1832

Inspection Date:

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Location Map



Latitude: 35.74906

Longitude: -90.03548

Inspector:

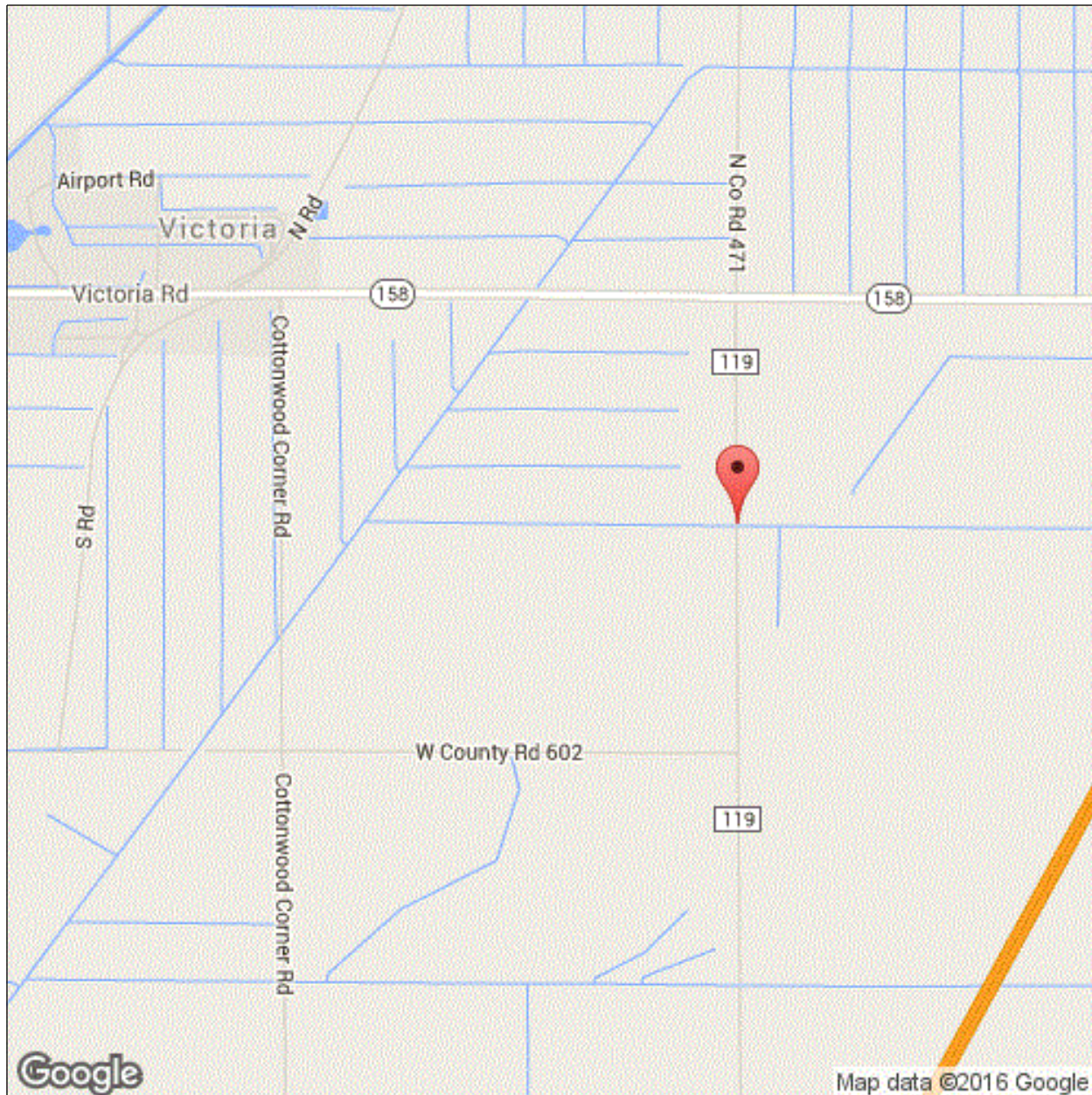
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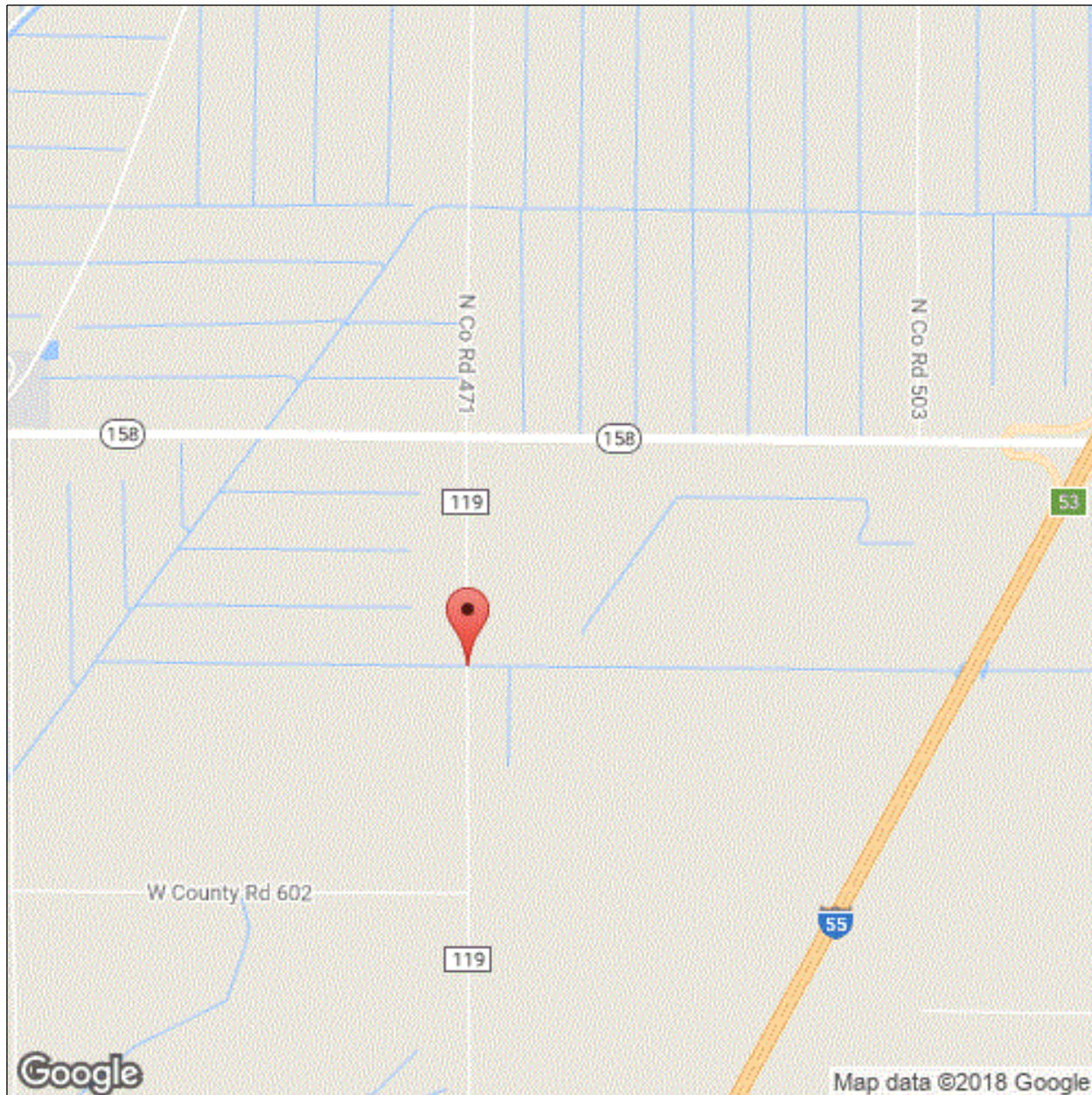
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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: M1832

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/12/2018
(8) STRUCTURE NUMBER	M1832	(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	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	DITCH NO. 41	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 119-02- LM 6.71		
(9) LOCATION	0.5 MI S SH 158		
(11) MILEPOINT 6.710	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.74906	(17) LONGITUDE -90.03548		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam		(60) SUBSTRUCTURE	5
(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	3 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	2 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1955 (106) YEAR RECONSTRUCTED	(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	37.0
(29) AVERAGE DAILY TRAFFIC	340 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	22.0
(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.)	15 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.6 RIGHT 0.6	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	25.2	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	24.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.9	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	60.4 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	354 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	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:

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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.	1139	sq. ft.	757	28	354	0
1090 - Exposed Rebar		6		0	0	6	0
1120 - Efflorescence/Rust Staining		285		0	0	285	0
1130 - Cracking (RC and Other)		91		0	28	63	0
510 - Wearing Surfaces		1125	sq. ft.	125	0	1000	0
3220 - Crack (Wearing Surface)		1000		0	0	1000	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	315	ft.	0	0	315	0
1090 - Exposed Rebar		127		0	0	127	0
1120 - Efflorescence/Rust Staining		188		0	0	188	0
215 - Reinforced Concrete Abutment	1- Ben.	52	ft.	0	7	45	0
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
1130 - Cracking (RC and Other)		17		0	0	17	0
6000 - Scour		34		0	7	27	0
228 - Timber Pile	1- Ben.	16	each	0	12	2	2
1140 - Decay/Section Loss		16		0	12	2	2
234 - Reinforced Concrete Pier Cap	1- Ben.	104	ft.	54	0	50	0
1080 - Delamination/Spall/Patched Area		13		0	0	13	0
1090 - Exposed Rebar		3		0	0	3	0
1120 - Efflorescence/Rust Staining		17		0	0	17	0
1130 - Cracking (RC and Other)		17		0	0	17	0
330 - Metal Bridge Railing	1- Ben.	90	ft.	79	7	4	0
7000 - Damage		11		0	7	4	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: M1832

Inspection Date:

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Maintenance Needs

Date Reported: 8/7/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Channel Beams have numerous open longitudinal cracks with heavy rust stains and efflorescence and spalls with rebar exposed in bottom of Girders, see 2016 photos:

Span 1 Unit 1 - 2LF rebar, 13LF Cracks with efflorescence/rust stains

Span 1 Unit 2 - 4LF rebar, 11LF Cracks with efflorescence/rust stains

Span 1 Unit 3 - 15LF rebar

Span 1 Unit 4 - 7LF rebar, 8LF Cracks with efflorescence/rust stains

Span 1 Unit 5 - 15LF Cracks with efflorescence/rust stains

Span 1 Unit 6 - 9LF rebar, 6LF Cracks with efflorescence/rust stains

Span 1 Unit 7 - 12LF rebar, 3LF Cracks with efflorescence/rust stains

Span 2 Unit 1 - 8LF rebar, 7LF Cracks with efflorescence/rust stains

Span 2 Unit 2 - 3LF rebar, 12LF Cracks with efflorescence/rust stains

Span 2 Unit 3 - 10LF rebar, 5LF Cracks with efflorescence/rust stains

Span 2 Unit 4 - 5LF rebar, 10LF Cracks with efflorescence/rust stains

Span 2 Unit 5 - 15LF Cracks with efflorescence/rust stains

Span 2 Unit 6 - 8LF rebar, 7LF Cracks with efflorescence/rust stains

Span 2 Unit 7 - 8LF rebar, 7LF Cracks with efflorescence/rust stains

Span 3 Unit 1 - 5LF rebar, 10LF Cracks with efflorescence/rust stains

Span 3 Unit 2 - 5LF rebar, 10LF Cracks with efflorescence/rust stains

Span 3 Unit 3 - 6LF rebar, 9LF Cracks

Span 3 Unit 4 - 6LF rebar, 9LF Cracks with rust stains

Span 3 Unit 5 - 6LF rebar, 9LF Cracks with rust stains

Span 3 Unit 6 - 7LF rebar, 8LF Cracks with rust stains

Span 3 Unit 7 - 1LF of exposed rebar, 14 LF Cracks with efflorescence/rust stains

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



Inspector:

Inspection Date:

Structure Number: M1832

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Maintenance Needs



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description

Inspector:

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Structure Number: M1832

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 5 Description

Stage: Monitor



PHOTO 6 Description

Stage: Monitor



PHOTO 7 Description

Stage: Monitor



PHOTO 8 Description

Inspector:

Structure Number: M1832

Inspection Date:

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Maintenance Needs

Date Reported: 8/7/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

4LF on the left end of Bent 2 Concrete Cap has moderate deterioration, cracking with efflorescence, and rust stains, see 2016 photo.

Right end of Bent 2 Concrete Cap has a 1LF minor spall with exposed rebar and the bottom of cap between Piles 4&5 is spalled with rebar exposed, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: M1832

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/12/2018

Priority: C - Important

Work Code:

Deficiency Description:

Approach Roadway has 1 1/2 in. settlement at each end of bridge and has asphalt cracking, see 2016 photo. Left & right shoulders of Approach Roadway is washing out exposing 2.5LF on the left end and 1.5LF of the right end of Abutment Bent 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: M1832

Inspection Date:

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Open



PHOTO 4 Description

Inspector:

Structure Number: M1832

Inspection Date:

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Maintenance Needs

Date Reported: 8/7/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Left & right Concrete Curbs has some cracking and deterioration with 6ft. of rebar exposed, see 2016 & 2018 photo of Span 2.

Deck with asphalt overlay has transverse cracks over joints and longitudinal and map cracking between Units, see 2016 photo.

Bottom of some Deck Units has some map cracking with efflorescence, especially Spans 1,2&3 Units 1&7 and Span 2 Unit 2, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: M1832

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Open



PHOTO 4 Description

Inspector:

Structure Number: M1832

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Right Rail Concrete Spacer Blocks are cracked & broke, see 2016 photo of Bent 2 right side.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2016

Priority: C - Important

Work Code:

Deficiency Description:

Bent 1 Abutment has 17LF of the left end having some undermining of cap, up to 1ft. deep and 1ft. under cap, see 2016 photo.

Bent 4 Abutment has the left & right end having some undermining of cap, up to 1.5LF deep and 2ft. under cap exposing Piles 1&5, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Structure Number: M1832

Inspection Date:

Facility Carried: SH 119-02- LM 6.71

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 3 Concrete Cap has delamination, map cracking, and cracks with efflorescence, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: M1832

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/12/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 2 Timber Pile 3 has some outside decay.

Bent 3 Timber Pile 1 is decayed and partially hollow with a 1 in. shell on span 2 side, see 2018 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2016

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bent 1 Abutment Concrete Cap has 4ft. of horizontal crack at centerline with rust stains.
Bent 4 Abutment 8LF of cracking and a small spall under Unit 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 04/12/2018

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Bent 2 pile 1 is decayed & hollow with a 2 in. shell.
Bent 3 pile 4 is decayed & hollow with a 1 1/2 in. shell.

Work Description:

Date Repairs Completed:

Maintenance Comments:
