

# Bridge Inspection Report

**M0019**  
**SH 1B-04 LM 0.98**  
**over**  
**Prices Branch**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

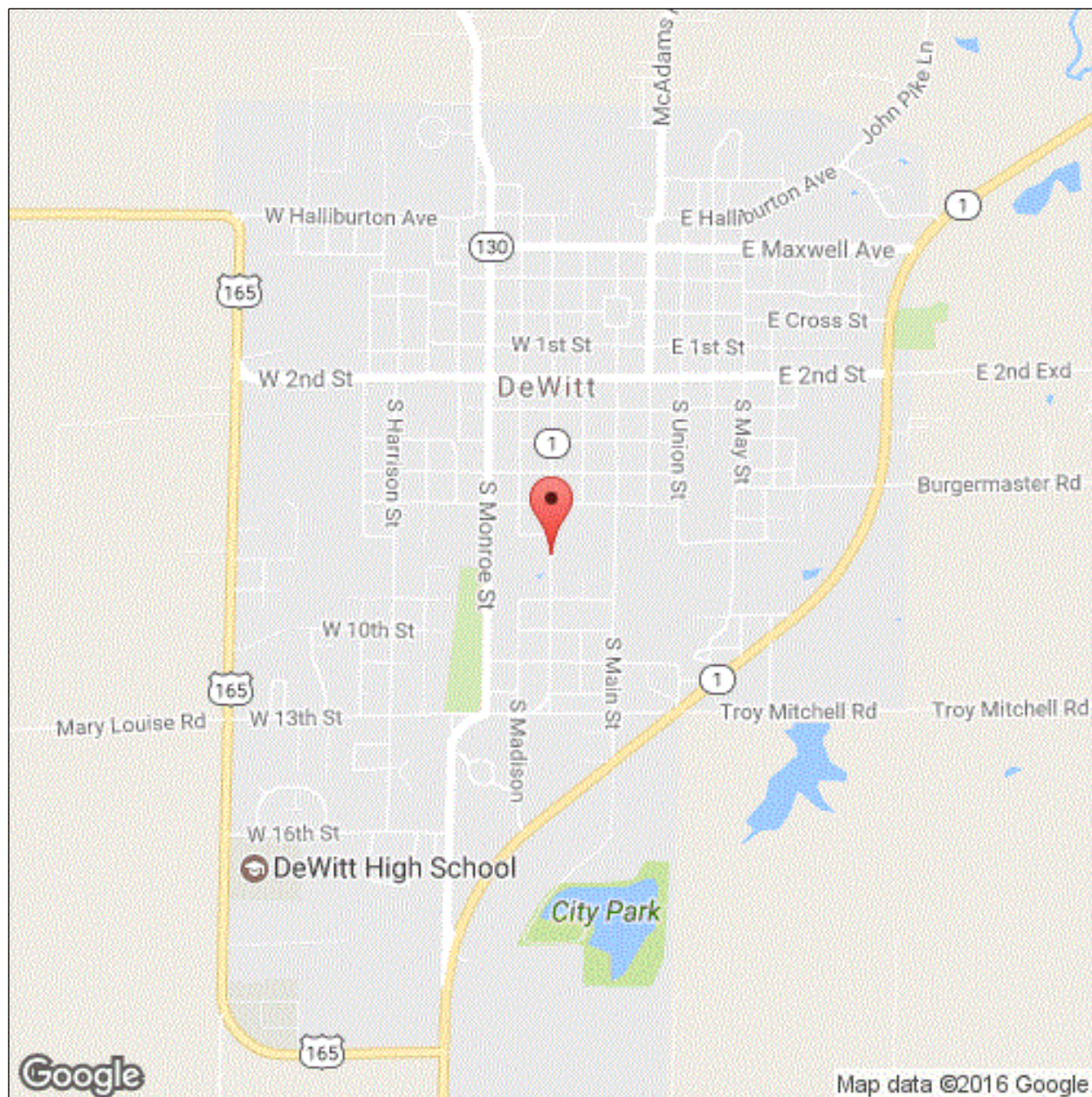
Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

## Bridge Inspection Report

### Location Map



Latitude: 34.28743

Longitude: -91.33768

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## **Bridge Inspection Report**

### **Executive Summary**

Bridge is logged from south to north.

04-06-2010 GGL-GLM: Bridge changed from RC box culvert to RC slab to more accurately reflect structure.



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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	M0019	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 6 1 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 001	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	18420	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Prices Branch	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 1B-04 LM 0.98		
(9) LOCATION	0.98 Mi N SH 1-DeWitt		
(11) MILEPOINT 0.980	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.28743	(17) LONGITUDE -91.33768		
(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: 01 - Slab		(60) SUBSTRUCTURE	5
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	5
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	2 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	N (108C) DECK PROTECTION		
	N		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1937 (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	31.0
(29) AVERAGE DAILY TRAFFIC	2800 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	19.0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(70) BRIDGE POSTING	2
		(41) STRUCTURE OPEN/POSTED/CLOSED	P
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	20 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	22.3	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	25	(71) WATERWAY ADEQUACY	6
(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.)	23.3	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	8
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	48.1
		STATUS	2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	65	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$)	125	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	312	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2000	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	3650 (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

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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
<b>38 - Reinforced Concrete Slab</b>	1- Ben.	1081	sq. ft.	906	0	175	0
<p>Deck: 25.0' wide x 43.25' long. Wearing surface: Moderate-sized longitudinal crack in asphalt wearing surface near centerline.</p> <p>Sides and bottom corners of deck - left &amp; side sides: Cracking and delaminating with heavy efflorescence &amp; some spalling. Some reinforcing steel exposed at Bent 1 right with section loss of steel.</p> <p>Soffit - Spans 1 &amp; 2 left &amp; right side: Shallow delaminations and spalls with some reinforcing steel exposed (minor to moderate section loss of steel) on outside 2-5' of soffit (under gutter area).</p> <p>NOTE: Spans 1 &amp; 2 have a noticeable sag/swag on bottom of slabs (as-built?).</p>							
1080 - Delamination/Spall/Patched Area		20		0	0	20	0
1090 - Exposed Rebar		65		0	0	65	0
1120 - Efflorescence/Rust Staining		90		0	0	90	0
510 - Wearing Surfaces		964	sq. ft.	921	0	43	0
3220 - Crack (Wearing Surface)		43		0	0	43	0
<b>210 - Reinforced Concrete Pier Wall</b>	1- Ben.	25	ft.	0	0	25	0
<p>Pier wall: 25' \ Bent 2. Some abrasion following the waterline and some scattered honeycomb with rebar that has section loss (some rebar has rusted almost completely away), especially Bent 2 back.</p>							
1090 - Exposed Rebar		8		0	0	8	0
1190 - Abrasion/Wear (PSC/RC)		17		0	0	17	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	50	ft.	0	21	29	0
<p>Abutments: 25' each \ Bents 1 &amp; 3. Some abrasion following the waterline and some scattered honeycomb. Bent 1: Some cracking with heavy efflorescence near top on left side. Left wingwall has broken loose and fallen to bottom of channel. Bent 3 right: Cracking down face of abutment at joint to wing (no steel exposed).  Left side (upstream): Some repair work to stabilize Bent 1 left side slope - some minor active erosion. Span 2: Silt build-up is channeling low to moderate water flow only under Span 1.</p>							
1120 - Efflorescence/Rust Staining		15		0	1	14	0
1190 - Abrasion/Wear (PSC/RC)		34		0	19	15	0
6000 - Scour		1		0	1	0	0

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### Bridge Inspection Report

#### Element Inspection

<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	86	ft.	84	2	0	0
Railing: 43' each side. Span 1 right @ Bent 1: Some impact damage.							
1090 - Exposed Rebar		1		0	1	0	0
7000 - Damage		1		0	1	0	0

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 2

Description



**Inspector:**

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**Bridge Inspection Report**

**Sketches**

Inspector:

Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 04/20/2016

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Sides and bottom corners of deck – left & right sides: Cracking and delaminating with heavy efflorescence & some spalling. Some reinforcing steel exposed at Bent 1 right with section loss of steel.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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#### Stage: Assigned



PHOTO 1      Description      Deck - Span 2 left: Cracks, spalls, and delaminations.

#### Stage: Monitor



PHOTO 2      Description      Cracks to side of slab with some spalling.



Inspector:

Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3      Description      Deck - Span 1 right: Rebar exposed with section loss.

Stage: Assigned



PHOTO 4      Description      Deck - Right side Span 1 : Exposed rebar and Deterioration

Stage: Assigned



PHOTO 5      Description      Left side of slab cracks with efflorescence.

Stage: Assigned



PHOTO 6      Description      Span 2 left soffit area has spalling, cracking with efflorescence, and exposed rebar with section loss.



Inspector:

Inspection Date:

Structure Number: M0019

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 7      Description      Span 1 right spalling with exposed rebar to outer edge of soffit.

Stage: Assigned



PHOTO 8      Description      Elevation.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 04/17/2019

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Soffit – Spans 1 & 2 left & right side: Delams and spalls with some reinforcing steel exposed with significant section loss, on outside 2-6' of soffit (under gutter area).

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Span 2 soffit spalls with exposed rebar.

Stage: Assigned



PHOTO 2      Description      Soffit - Span 2: Exposed steel with section loss

Inspector:

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3      Description      Soffit - Span 2 : Exposed rebar

Stage: Assigned



PHOTO 4      Description      Span 1 just ahead of mid span left has spalls with exposed rebar in soffit.



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 04/20/2016

Priority: D - Routine

Work Code: N/A

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### Deficiency Description:

Pier wall – Bent 2 back side: Reinforcing steel in honeycombed area has section loss – some has rusted almost completely away.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Bent 2 pier wall back has heavy abrasion and spalling with exposed rebar.

Stage: Monitor



PHOTO 2      Description      Bent 2 back side: Rebar exposed with severe section loss

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3 Description Pier wall - Bent 2 : Exposed rebar

Stage: Monitor



PHOTO 4 Description Pier wall ahead at span 2 has large honeycombed area with exposed rebar.



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 04/20/2016

Priority: G - General/ Preventive maintenance

Work Code: N/A

---

### Deficiency Description:

Abutment – Bent 3 right: Cracking down face of abutment at joint to wing (no steel exposed).

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Bent 3: Cracking at wingwall

Stage: Monitor



PHOTO 2      Description      Abutment - Bent 3 right : Cracking

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 04/17/2017

Priority: G - General/ Preventive maintenance

Work Code: N/A

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### Deficiency Description:

Wearing surface - Bents 1 & 3: Some transverse cracking and deterioration of asphalt at bridge ends - allowing stormwater access to subgrade.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1	Description	Wearing surface - Bent 1: Transverse cracking
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### Maintenance Needs

Date Reported: 04/30/2018

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Log mile sign - Bent 3 left: No sign in place - post and object marker in place.

#### Work Description:

Replaced by State Forces.

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Date Repairs Completed: 04/17/2019

#### Maintenance Comments:

Completed.

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Stage: Open



PHOTO 1    Description    Sign 2