



Latitude:35.03422, Longitude:-91.95918

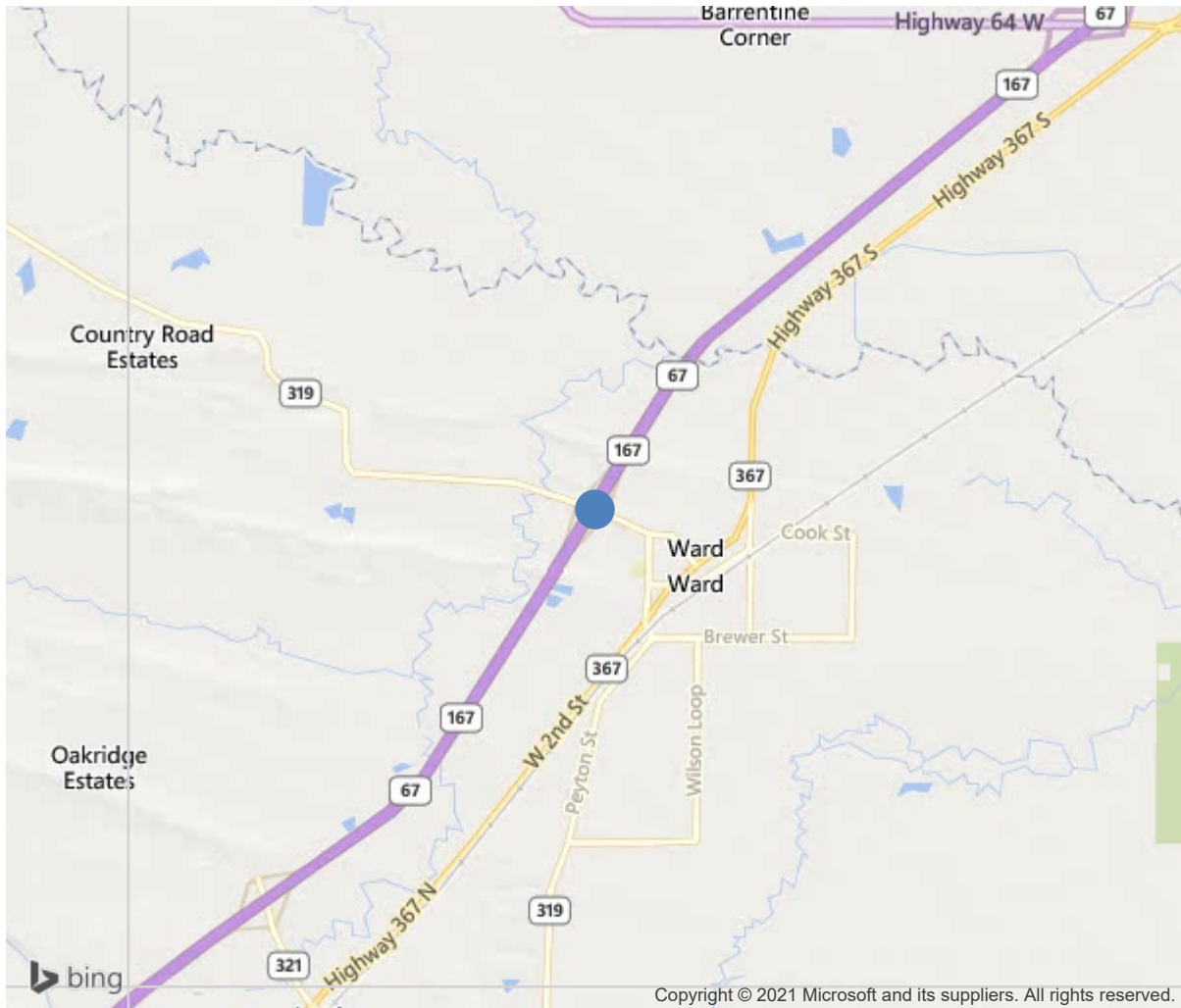
Route:319 Section:02 Log:0.6

Arnold Road ID:43x319x2xA, Arnold Log mile:0.582

District 06, Lonoke County

Owner: 1-State Highway Agency

.60 MI W JCT SH 367



35.03422, -91.95918



Bridge #05336(Routine)

SH 319 / 2 Log 0.6 over US 67 SEC 11 LOG 9.22

Location: .60 MI W JCT SH 367

Team Lead: Chris Doggett Inspection Date: May 05, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05336
(5) Inventory Route	319
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	US 67 SEC 11 LOG 9.22
(7) Facility Carried	SH 319 / 2 Log 0.6
(9) Location	.60 MI W JCT SH 367
(11) Mile Point	0.6 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.03422
(17) Longitude	-91.95918
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
Type	2-Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1971
(106) Year Reconstructed	0
(42) Type of Service	61
On	6-Overpass structure at an interchange or secon
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	5200
(30) Year of ADT	2018
(109) Truck ADT	4 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	115 ft
(49) Structure Length	220 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	37.3 ft
(32) Approach Roadway Width (W/Shoulders)	35.1 ft
(33) Bridge Median	0-No median
(34) Skew	15 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	35.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.58 ft
Ref:	
(55) Min Lat Underclear RT	28.2 ft
Ref:	
(56) Min Lat Underclear LT	7.7 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	1-Navigation protection not requ
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7-Rural Major Collector
(100) Defense Highway	0-The inventory route is not a S
(101) Parallel Structure	N-No parallel structure exists.
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	0-The inventory route is not part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	50
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	30
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	7
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	N-Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	5700
(115) Year of Future ADT	2038
INSPECTIONS	
(90) Inspection Date	05/2020
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	No

**Location: .60 MI W JCT SH 367**

**Team Lead:** Chris Doggett, **Inspection Date:** May 05, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8131	7119	1005	7	0
1080	Delamination/Spall/Patched Area	SF	33	0	31	2	0
1090	Exposed Rebar	SF	5	0	0	5	0
1120	Efflorescence/Rust Staining	SF	134	0	134	0	0
1130	Cracking (RC and Other)	SF	840	0	840	0	0
(12)							
Transverse cracks on 6 to 8 foot centers. Span 2 has scattered delams and small spalls and one area (1x1) with exposed rebar. Scattered cracks with light efflorescence at bent 2 in soffit overhangs.							
107	Steel Open Girder/Beam	LF	1088	908	160	20	0
1000	Corrosion	LF	180	0	160	20	0
515	Steel Protective Coating	SF	12506	0	2911	9480	115
3420	Peeling/Bubbling/Cracking	SF	100	0	0	100	0
3440	Effectiveness (Steel Protective Coatings)	SF	12406	0	2911	9380	115
(107)							
The girder ends and outside of girders 1&5 were repainted by HBM 2/4/99 Girder ends at bents 1 & 3 have active rust moderate pitting due to leaking joints seals. Girders 2 thru 4 have areas of freckling rust.							
205	Reinforced Concrete Column	EA	3	2	1	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
(205)							
Bent 2 center column right side has small spall with exposed rebar.							
215	Reinforced Concrete Abutment	LF	189	142	33	14	0
1080	Delamination/Spall/Patched Area	LF	14	0	0	14	0
1090	Exposed Rebar	LF	8	0	8	0	0
1130	Cracking (RC and Other)	LF	25	0	25	0	0
(215)							
Bent 1 has vertical cracks in the face of the breast wall. Bent 3 has cracking, delams and exposed rebar on the face of the breast wall.							
234	Reinforced Concrete Pier Cap	LF	34	32	2	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234)							
Bent 2, back face, right end. 1 exposed rebar.							



**Location: .60 MI W JCT SH 367**

**Team Lead:** Chris Doggett, **Inspection Date:** May 05, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 2 has a small delam on the left end.							
302	Compression Joint Seal	LF	74	0	0	37	37
2310	Leakage	LF	74	0	0	37	37
(302)							
The joint seal at bent 1 has fallen out and joint seal at bent three leaks. See photo.							
311	Movable Bearing	EA	10	0	5	5	0
1000	Corrosion	EA	5	0	0	5	0
2220	Alignment	EA	5	0	5	0	0
(311)							
All of the bearings have active corrosion. The bearings at bent 1 are misaligned.							
313	Fixed Bearing	EA	5	5	0	0	0
321	Reinforced Concrete Approach Slab	SF	1752	1683	24	45	0
1080	Delamination/Spall/Patched Area	SF	45	0	0	45	0
1130	Cracking (RC and Other)	SF	24	0	24	0	0
(321)							
Both approach slabs have scattered cracking. Both approach slabs have spalls filled with asphalt. See photo.							
330	Metal Bridge Railing	LF	440	440	0	0	0
331	Reinforced Concrete Bridge Railing	LF	440	375	65	0	0
1130	Cracking (RC and Other)	LF	65	0	65	0	0
(331)							
Concrete bridge railing has scattered cracks.							



Deck view



Soffit view





Inventory looking north



Bent 3: abutment with numerous spalls with exposed rebar and horizontal cracks with efflorescence





Bent 3, girder 1: bearing with laminating and pack rust at the sole plate and next to bottom flange.



Span 2 has open spalls and spalls that have been patched with asphalt



## Maintenance Needs

**Date Reported:** 06/29/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 302 - Compression Joint Seal

---

## Deficiency Description

Bent 1, joint seal has fallen out and laying on bearings and causing debris build-up around bearings. Photo attached

## Remarks

---



Bent 1 joint seal is missing.







Bent 1: entire joint seal is missing

**Date Reported:** 06/29/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 12 - Reinforced Concrete Deck

---

**Deficiency Description**

Deck has small spalls and large unsealed transverse cracks.  
Span 2: left lane with open spall with exposed rebar and open spall with asphalt patch.

**Remarks**

---



Span 2 spall with exposed rebar and spall filled with asphalt.



Span 1: numerous unsealed transverse cracks.





Span 2: left lane with open spall with exposed rebar and open spall with asphalt patch.

**Date Reported:** 05/22/2014  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 311 - Movable Bearing

---

**Deficiency Description**

Bearings at abutment 1 have rust and are rotated. Photo attached  
Bearings at bent 3 abutment have heavy rust. Photo attached.

**Remarks**

---







Bent 3 bearing 1 laminating rust common all bearings at bent 3.





Bent 1 bearing 4 is fully rotated back.



Bent 3, girder 1: bearing with laminating and pack rust at the sole plate and next to bottom flange.





Bridge #05336(Routine)  
SH 319 / 2 Log 0.6 over US 67 SEC 11 LOG 9.22

Location: .60 MI W JCT SH 367

Team Lead: Chris Doggett Inspection Date: May 05, 2020

**Date Reported:** 05/22/2014  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

---

#### Deficiency Description

Both approach slabs have spalls and spalls filled with asphalt.

#### Remarks

---



Northbound approach slab has spalls filled with asphalt.



**Bridge #05336(Routine)**

**SH 319 / 2 Log 0.6 over US 67 SEC 11 LOG 9.22**

**Location: .60 MI W JCT SH 367**

**Team Lead: Chris Doggett Inspection Date: May 05, 2020**

**Inspection Comments**

Job #1429, Drawing #16574 for Layout.

Logged Northbound