



Latitude:34.94851, Longitude:-92.06390

Route:5 Section:12 Log:0.14

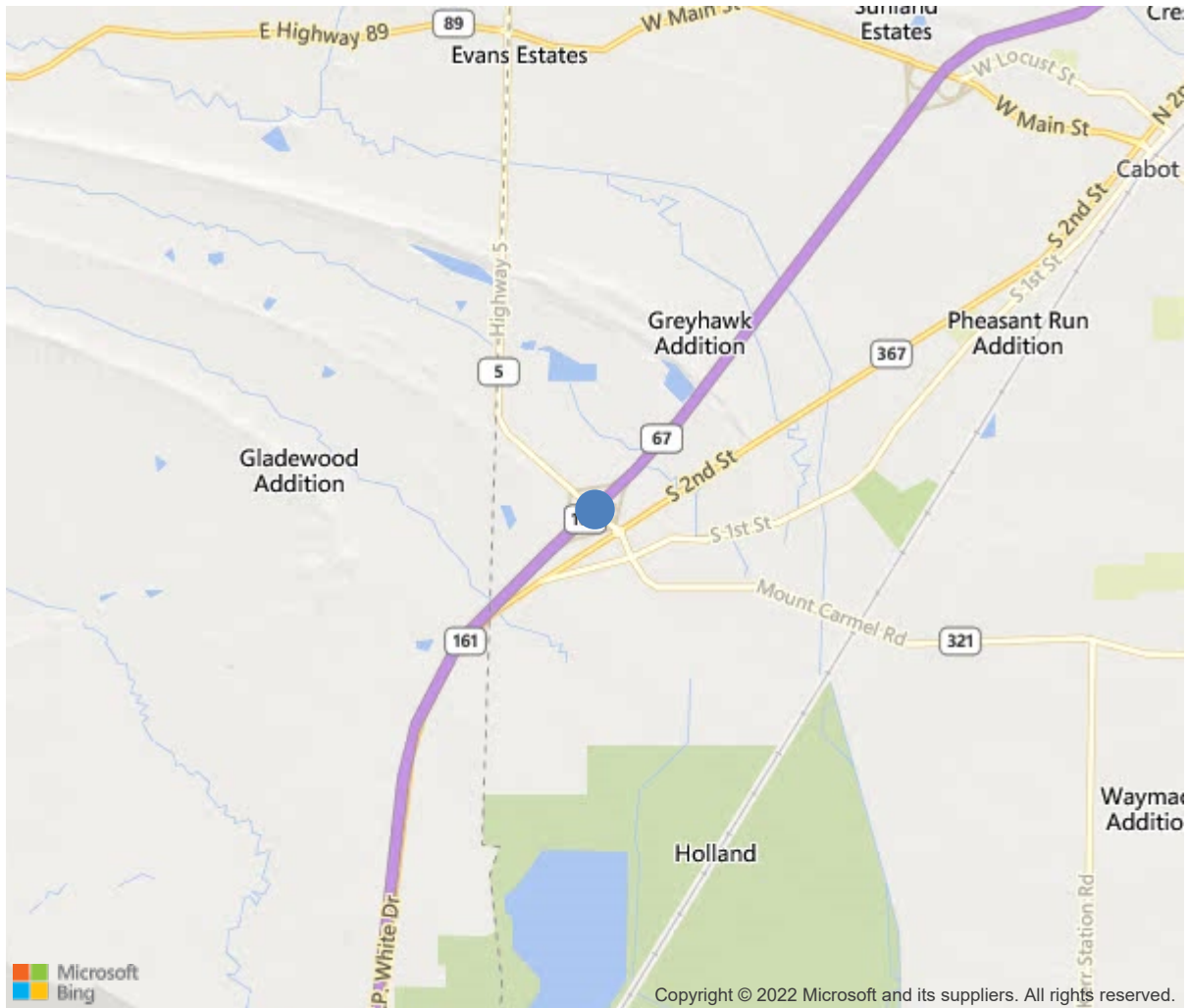
Arnold Road ID:43x5x12xA, Arnold Log mile:0.145

District 06, Lonoke County

Owner: 1-State Highway Agency

Place Code: 10300 - Cabot

SH 5 AT US 67



34.94851, -92.06390

Inspection Direction : S to N



Bridge #05333(Routine)
SH 5 Log 0.14 over US 67-SEC 11Log 0.71

Location: SH 5 AT US 67

Team Lead: Chris Doggett Inspection Date: May 19, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05333
(5) Inventory Route	5
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	10300
(6) Features Intersected	US 67-SEC 11Log 0.71
(7) Facility Carried	SH 5 Log 0.14
(9) Location	SH 5 AT US 67
(11) Mile Point	0.14 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.94851
(17) Longitude	-92.0639
(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	3
Under	5
(29) Average Daily Traffic	16000
(30) Year of ADT	2014
(109) Truck ADT	9 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	93 ft
(49) Structure Length	189 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	43 ft
(52) Deck Width Out to Out	46.3 ft
(32) Approach Roadway Width (W/Shoulders)	47.9 ft
(33) Bridge Median	0-No median
(34) Skew	6 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	44.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.67 ft
Ref:	
(55) Min Lat Underclear RT	26.4 ft
Ref:	
(56) Min Lat Underclear LT	8.2 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	16-Urban Minor Arterial
(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	7
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5-MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	36
(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	6
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	1-Inspected feature meets currently a
(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	14915
(115) Year of Future ADT	2024

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		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8694	6322	2371	1	0
1080	Delamination/Spall/Patched Area	SF	2	0	1	1	0
1090	Exposed Rebar	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	369	0	369	0	0
1130	Cracking (RC and Other)	SF	2000	0	2000	0	0
(12)	State forces have sealed most all transverse cracks. See photo. Soffit has scattered transverse cracks with light efflorescence. See photo. Span 1 has spall in deck and spall in soffit see photo. Span 2 left side has 1 delam in the overhang.						
107	Steel Open Girder/Beam	LF	1122	988	134	0	0
1000	Corrosion	LF	134	0	134	0	0
515	Steel Protective Coating	SF	12903	0	6317	6318	268
3420	Peeling/Bubbling/Cracking	SF	0	0	0	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	12903	0	6317	6318	268
(107)	All beams have freckling rust with areas of surface rust and minor pitting. Outside face of girders 1 & 6, & all beams ends repainted 12-23-98 by HBM. Most of the effectiveness of the protective system on the interior beams is gone.						
205	Reinforced Concrete Column	EA	4	4	0	0	0
215	Reinforced Concrete Abutment	LF	212	169	43	0	0
1090	Exposed Rebar	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	40	0	40	0	0
(215)	Bt. 1, 25' of Random cracks up to .020". Bt. 3, 15' of random cracks up to .020" & 3' of exposed rebar.						
234	Reinforced Concrete Pier Cap	LF	44	38	6	0	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(234)	Bent 2 Small spall back face of cap. 2' of exposed rebar on the ahead side of Bt. 2.						
302	Compression Joint Seal	LF	92	0	0	0	92

Location: SH 5 AT US 67

Team Lead: Chris Doggett, **Inspection Date:** May 19, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2330 (302)	Seal Damage	LF	92	0	0	0	92
All of the joint material is missing at Bt. 1 & 3.							
311	Movable Bearing	EA	12	0	12	0	0
1000 (311)	Corrosion	EA	12	0	12	0	0
All of the bearings are beginning to rust.							
313	Fixed Bearing	EA	6	0	6	0	0
1000 (313)	Corrosion	EA	6	0	6	0	0
All of the bearings are beginning to rust.							
321	Reinforced Concrete Approach Slab	SF	1752	81	1671	0	0
1080	Delamination/Spall/Patched Area	SF	16	0	16	0	0
1130	Cracking (RC and Other)	SF	155	0	155	0	0
4000 (321)	Settlement	SF	1500	0	1500	0	0
Both approach slabs have settled & cracked on either side of the grade beam, the app. Slab at Bt. 1 has scattered spalls & scaling. State forces have sealed transverse cracks.							
330	Metal Bridge Railing	LF	379	379	0	0	0
331	Reinforced Concrete Bridge Railing	LF	379	346	33	0	0
1130 (331)	Cracking (RC and Other)	LF	33	0	33	0	0
Concrete bridge railing has scattered cracks.							



Soffit view



Inventory looking north



Span 1: scattered transverse cracks with efflorescence staining



Ahead side of bent 2: a couple of spalls with exposed rebar



Deck view

Maintenance Needs

Date Reported: 06/29/2012
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Joint seals are missing at Bent 1 and 3. Photo attached.

Remarks



Joint material is missing at Bt. 1 & 3.



Bent 3 joint seal is missing.



Bent 1: joint seal missing



Bridge #05333(Routine)

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Team Lead: Chris Doggett **Inspection Date:** May 19, 2020

Inspection Comments

Job #1429, Drawing #16571 for Layout.

Sign BM-067-43-01 mounted to the left side of the bridge.

Logged Northbound