



Latitude:34.97064, Longitude:-92.41870

Route:89 Section:04 Log:11.137

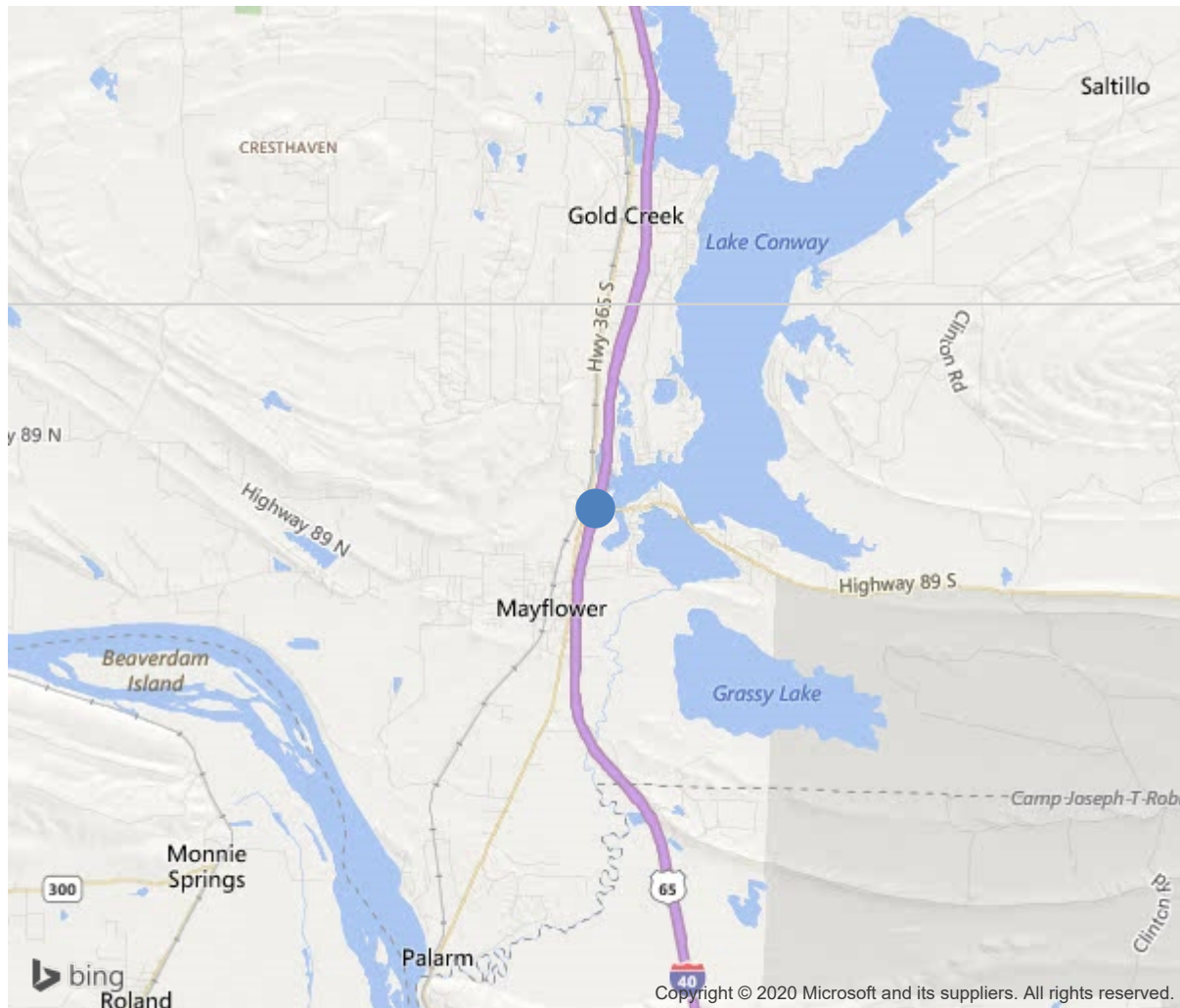
Arnold Road ID:23x89x4xA, Arnold Log mile:11.03

District 08, Faulkner County

Owner: 1-State Highway Agency

Place Code: 41940 - MAYFLOWER

11.14 MI W PULASKI CO LI



34.97064, -92.41870



Bridge #03787(Routine)

SH 89 over I 40-SEC 32

Location: 11.14 MI W PULASKI CO LI

Team Lead: William Wood Inspection Date: February 11, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03787
(5) Inventory Route	89
(2) Highway Agency District	08
(3) County Code	45-Faulkner County, Arkansas
(4) Place Code	41940
(6) Features Intersected	I 40-SEC 32
(7) Facility Carried	SH 89
(9) Location	11.14 MI W PULASKI CO LI
(11) Mile Point	11.137 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.97064
(17) Longitude	-92.4187
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	4
(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	1966
(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	6
(29) Average Daily Traffic	10000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	70 ft
(49) Structure Length	228 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.4 ft
(32) Approach Roadway Width (W/Shoulders)	30.8 ft
(33) Bridge Median	0-No median
(34) Skew	25 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	27.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.08 ft
Ref:	
(55) Min Lat Underclear RT	8.5 ft
Ref:	
(56) Min Lat Underclear LT	28 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	5-None present but re-evaluation
(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	6-Rural 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	4
(59) Superstructure	6
(60) Substructure	5
(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	4
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	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	8266
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	Yes 0 201901



ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN FACES OF CAPS 2 ON BK. SIDE & CAP 4 AHD SIDE. REBAR HAS BEEN PAINTED. MODERATE TO MAJOR DELAM, CRACKING SPALLING W / REBAR EXPOSED IN CAP 3.							
303	Assembly Joint with Seal	LF	167	130	37	0	0
2360	Adjacent Deck or Header	LF	37	0	37	0	0
(303)							
MINOR DELAM & SPALLING AT JOINTS IN SPANS 3 & 4.							
311	Movable Bearing	EA	20	0	10	10	0
1000	Corrosion	EA	15	0	10	5	0
2220	Alignment	EA	5	0	0	5	0
515	Steel Protective Coating	SF	60	3	14	25	18
3440	Effectiveness (Steel Protective Coatings)	SF	57	0	14	25	18
(311)							
MINOR TO MODERATE RUST ON ALL BEARINGS. BEARINGS EXTENDED TO LIMITS AT PIER 4 AHD. SIDE.							
313	Fixed Bearing	EA	20	0	12	8	0
1000	Corrosion	EA	20	0	12	8	0
515	Steel Protective Coating	SF	40	18	5	10	7
3440	Effectiveness (Steel Protective Coatings)	SF	22	0	5	10	7
(313)							
MINOR TO MODERATE RUST ON ALL BEARINGS.							
321	Reinforced Concrete Approach Slab	SF	2800	1400	1400	0	0
1130	Cracking (RC and Other)	SF	1000	0	1000	0	0
1190	Abrasion/Wear (PSC/RC)	SF	400	0	400	0	0
(321)							
MINOR TO MODERATE CRACKING THROUGHOUT SLABS. MINOR SCALE.							
330	Metal Bridge Railing	LF	450	450	0	0	0
(330)							
Aluminum Rail on top of Concrete Rail.							
331	Reinforced Concrete Bridge Railing	LF	450	400	50	0	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
(331)							
MINOR TO MODERATE CRACKING & SCALE IN CONCRETE CURBS.							



Roadway



Typ. Condition of Deck.



Typ. Condition of Soffit.

Maintenance Needs

Date Reported: 03/12/2014

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Pier #3 & #4, Beam #3, ahead side - Major section loss in the web below the concrete haunch.
Minor section loss in the web below the concrete haunch at various locations.

Photo Included - Beam #3, ahead side of Pier #4.

Remarks



Typ. Rust on Ends of Beams.



Typ. Chalking & Peeling of Paint on Beams.



Typ. Rust on Ends of Beams.



Typ. Rust & Section Loss on End of Beam 3.

Date Reported: 01/27/2016
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 234 - Reinforced Concrete Pier Cap

Deficiency Description

Delam, Cracking & Spalling W / Rebar Exposed in Faces of Caps. Bt Face of Cap 3 is the Worst

Remarks



Dealm, Cracking & Spalling W / Rebar Exposed in
Bt. Face of Cap 3



Typ. Cracking & Spalling in Faces of Caps.



Delam, Cracking & Spalling W / Rebar Exposed in
Ahd. Face of Cap 3.



Typ. Condition of Bk. Face of Cap 3.



Dealn, Cracking & Spalling W / Rebar Exposed in
Bt. Face of Cap 3



Bridge #03787 (Routine)

SH 89 over I 40-SEC 32

Location: 11.14 MI W PULASKI CO LI

Team Lead: William Wood Inspection Date: February 11, 2020

Date Reported: 02/02/2018
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

The deck has several minor to moderate spalls throughout all spans, some spalled areas have rebar exposed.

Remarks







Typ. Delam, Cracking & Spalling in Deck.



Typ. Condition of Soffit.

Date Reported: 02/11/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 331 - Reinforced Concrete Bridge Railing

Deficiency Description

RAIL - MINOR TO MODERATE CRACKING & SCALE IN CONCRETE CURBS.

Remarks



Typ. Cracking & Scale in Curbs under Rail.

Date Reported: 02/11/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 205 - Reinforced Concrete Column

Deficiency Description

COLUMNS - MINOR TO MODERATE VERTICAL CRACKING IN COLUMN 1 AT PIER 2.
MINOR DELAM & SPALLING W / REBAR EXPOSED IN COLUMN 1 AT PIERS 3 & 4.
MINOR DELAM & SPALLING IN COLUMN 2 AT PIER 4.

Remarks



Typ. Cracking in Columns.



Typ. Delam & Spalling W / Rebar Exposed in Columns.

Date Reported: 02/11/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 215 - Reinforced Concrete Abutment

Deficiency Description

ABUTMENTS - MINOR VERTICAL CRACKING IN BACK WALLS.

Remarks



Typ. Cracking in Back Walls.



Typ. Cracking in Back Walls.

Date Reported: 02/11/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: Superstructure

Deficiency Description

BEARINGS - MINOR TO MODERATE RUST & PACK RUST ON ALL BEARINGS.

Remarks



Typ. Rust on Bearings.

Date Reported: 02/11/2020

Priority: D- Routine

Type of Work: Repair

Status: Open

Component: Approach

Deficiency Description

APPROACH SLABS - MINOR TO MODERATE CRACKING THROUGHOUT SLABS. MINOR SCALE.

Remarks



Typ. Condition of Approach Slabs.



Typ. Condition of Approach Slabs.



Bridge #03787 (Routine)

SH 89 over I 40-SEC 32

Location: 11.14 MI W PULASKI CO LI

Team Lead: William Wood **Inspection Date:** February 11, 2020

Inspection Comments

-

Deck Notes

Superstructure Notes

Substructure Notes