



Latitude:35.17250, Longitude:-90.19354

Route:55 Section:11 Log:7.39

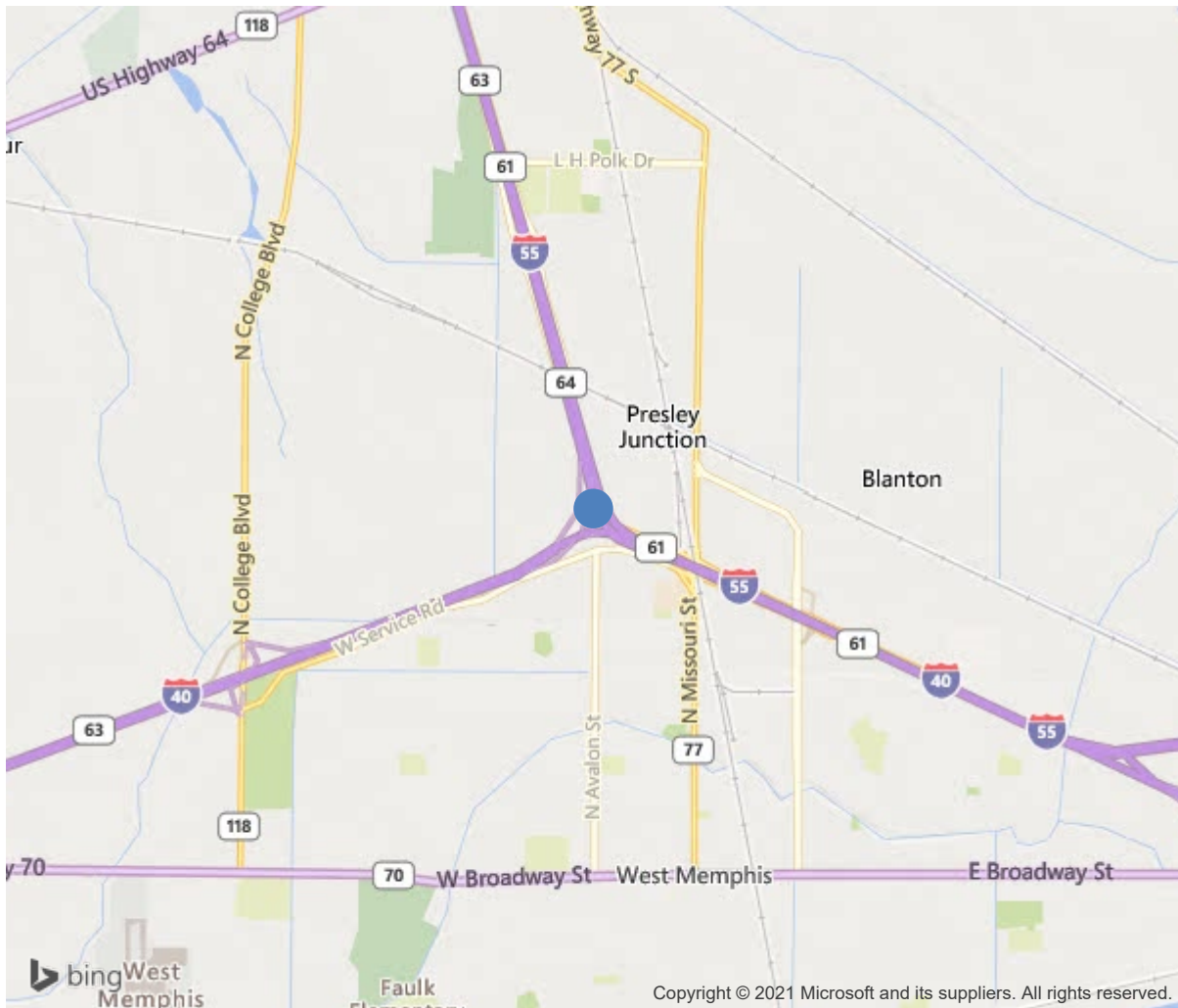
Arnold Road ID:18x55x11xB, Arnold Log mile:64.958

District 01, Crittenden County

Owner: 1-State Highway Agency

Place Code: 72140 - WEST MEMPHIS

7.39 Mi West Tenn St Line



35.17250, -90.19354



Bridge #06103(Record Change)

I-55/Sec-11/L-7.39 over I-40/Sec-52Y/L-277.19

Location: 7.39 Mi West Tenn St Line

Team Lead: Drew Melton Inspection Date: September 10, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06103
(5) Inventory Route	55
(2) Highway Agency District	01
(3) County Code	35-Crittenden County, Arkansas
(4) Place Code	72140
(6) Features Intersected	I-40/Sec-52Y/L-277.19
(7) Facility Carried	I-55/Sec-11/L-7.39
(9) Location	7.39 Mi West Tenn St Line
(11) Mile Point	7.39 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055110
(16) Latitude	35.1725
(17) Longitude	-90.19354
(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	3
(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	1988
(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	1
(29) Average Daily Traffic	22000
(30) Year of ADT	2019
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	140 ft
(49) Structure Length	368.3 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 ft
(33) Bridge Median	0-No median
(34) Skew	50 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.11 ft
Ref:	
(55) Min Lat Underclear RT	12.8 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	1
(26) Functional Class	11-Urban Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	N-No parallel structure exists.
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(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	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6-MS 18+Mod / HS 20+Mod
(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	3
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	7
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	5
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(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	43259
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	08/2020
(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

Team Lead: Drew Melton, **Inspection Date:** September 10, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	15634	7906	7728	0	0
1130	Cracking (RC and Other)	SF	7728	0	7728	0	0
(12)							
Transverse and longitudinal cracking every 2' - 3' up to 1/32" wide. Soffit overhangs have transverse hairline cracks spaced 4' apart.							
107	Steel Open Girder/Beam	LF	1825	0	1825	0	0
1000	Corrosion	LF	1825	0	1825	0	0
515	Steel Protective Coating	SF	25964	0	23365	0	2599
3410	Chalking (Steel Protective Coatings)	SF	23365	0	23365	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	2599	0	0	0	2599
(107)							
Paint is chalky and peeling with up to 10% bare steel and some minor surface rust.							
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	200	149	50	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
(215)							
Back wall's have vertical cs2 cracks spaced 4' apart. Bearing bolt abutment #2, girder #2 concrete spalled out under bearing approx. 4" on inside anchor bolt. anchor bolt is exposed.							
234	Reinforced Concrete Pier Cap	LF	115	115	0	0	0
301	Pourable Joint Seal	LF	28	0	28	0	0
2340	Seal Cracking	LF	28	0	28	0	0
(301)							
Abutment #1 left half is pourable joint and is weathered.							
305	Assembly Joint without Seal	LF	84	84	0	0	0
(305)							
No paint left on top of joint steel. Abutment 1 left half of joint has had steel removed and pourable joint added.							
310	Elastomeric Bearing	EA	20	20	0	0	0
321	Reinforced Concrete Approach Slab	SF	1680	1580	100	0	0
1130	Cracking (RC and Other)	SF	100	0	100	0	0
(321)							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Slabs have transverse cracks 100 square feet total.							
331	Reinforced Concrete Bridge Railing	LF	736	367	368	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	184	0	184	0	0
1130	Cracking (RC and Other)	LF	184	0	184	0	0
(331)							
Vertical cs2 cracks spaced 4' apart.							
Several pieces of rebar exposed due to poor concrete coverage 1 piece every 4'.							
Right rail 40' from abutment 2 has 1' spall no exposed rebar.							



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Location: 7.39 Mi West Tenn St Line

Team Lead: Drew Melton **Inspection Date:** September 10, 2020

Maintenance Needs

Date Reported: 09/10/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 215 - Reinforced Concrete Abutment

Deficiency Description

Bearing bolt abutment #2, girder #2 concrete spalled out under bearing approx. 4" on inside anchor bolt. anchor bolt is exposed.

Remarks



Bearing bolt abutment #2, girder #2 concrete spalled out under bearing approx. 4" on inside anchor bolt. anchor bolt is exposed.

Date Reported: 09/10/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 12 - Reinforced Concrete Deck

Deficiency Description

Transverse and longitudinal cracking every 2' - 3' up to 1/32" wide.

Remarks



Transverse and longitudinal cracking every 2' - 3' up to 1/32" wide.



Transverse and longitudinal cracking every 2' - 3' up to 1/32" wide.

Date Reported: 09/09/2014
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

SIDE SLOPE AT BOTH ABUTMENTS BOTH SIDES HAVE SLID DOWN SLOPE CAUSING 3" WIDE OPENING AT COLD JOINT.

Remarks



Typical side slope joint.

Date Reported: 09/01/2020
Priority: D- Routine
Type of Work: Clean
Status: Monitor
Component: Approach

Deficiency Description

Abutment #2 right side has small tree growing beside bridge.

Remarks



Abutment #2 right side has small tree growing
beside bridge.



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Team Lead: Drew Melton **Inspection Date:** September 10, 2020

Date Reported: 09/01/2020
Priority: D- Routine
Type of Work: Clean
Status: Monitor
Component: 107 - Steel Open Girder/Beam

Deficiency Description

Paint is chalky and peeling with up to 10% bare steel and some minor surface rust.

Remarks



Typical paint condition interior girder



Typical paint outside girder



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Team Lead: Drew Melton **Inspection Date:** September 10, 2020

Inspection Comments

Drawing numbers: 27010-11, 27029-38.

Slope pavement has sank 6"+/- at abutment #2 left and right side and abutment #1 both sides.

Abutment side slopes have slid down causing 3" wide opening between pavements.

Abutment #2 right side has small tree growing beside bridge.

Deck Notes

08/31/2020 lowered deck from 7 to 6 due to excessive number of cracks.