



Latitude:35.82106, Longitude:-89.96667

Route:55 Section:12 Log:57.99

Arnold Road ID:47x55x12xB, Arnold Log mile:14.234

District 10, Mississippi County

Owner: 1-State Highway Agency

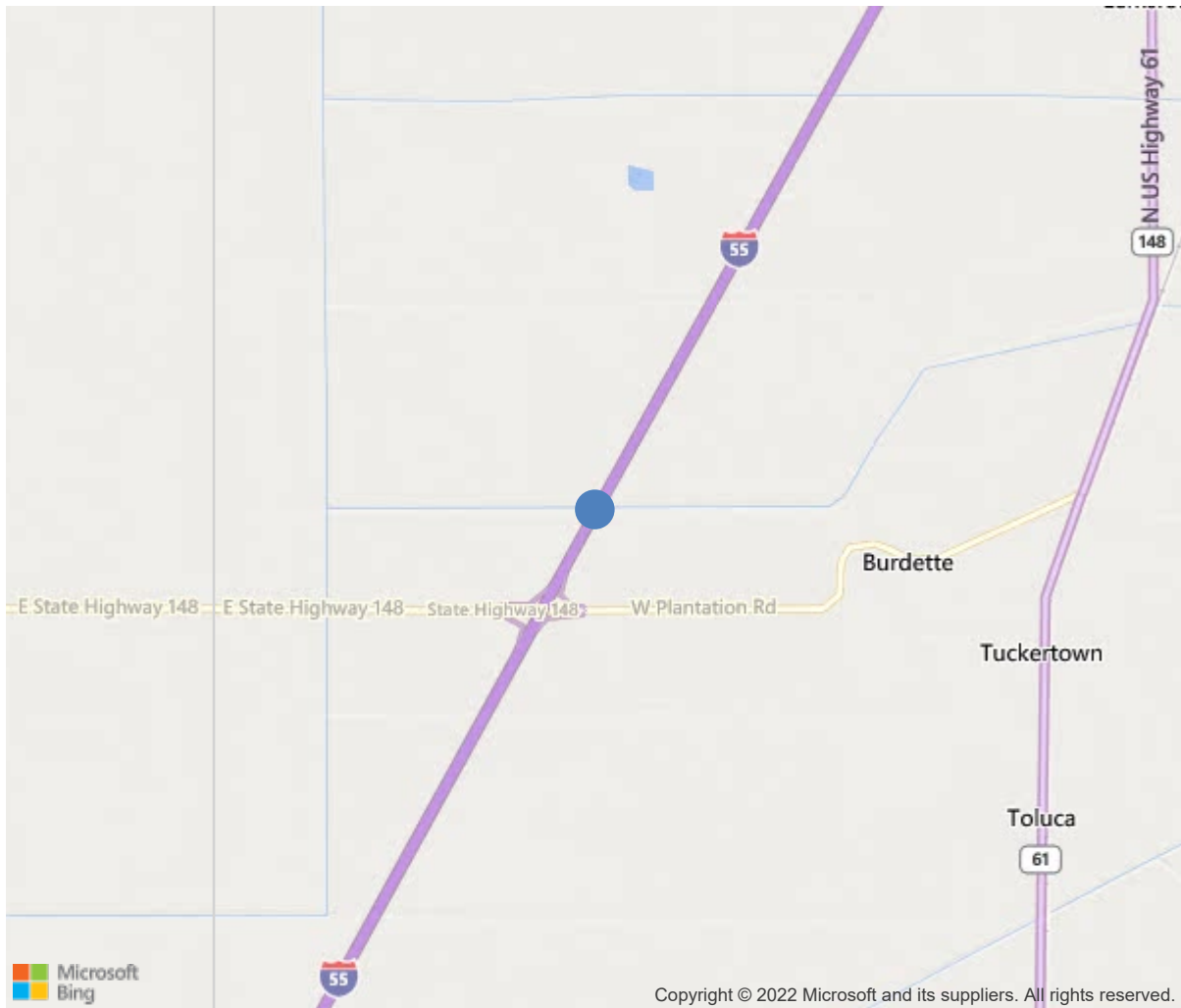


Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter Inspection Date: June 17, 2020

.55 MI NO OF SH 148



35.82106, -89.96667



Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter Inspection Date: June 17, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A3284
(5) Inventory Route	55
(2) Highway Agency District	10
(3) County Code	93-Mississippi County, Arkansa
(4) Place Code	0
(6) Features Intersected	DRAINAGE DITCH NUMBER 6
(7) Facility Carried	I-55SB-12-LM 57.99
(9) Location	.55 MI NO OF SH 148
(11) Mile Point	57.99 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.82106
(17) Longitude	-89.96667
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(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	1960
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	28386
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	120 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	43.5 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0-No navigation control on water
(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	1
(26) Functional Class	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	L-The left structure of parallel
(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	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(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	43
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	26
(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	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(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	5-Bridge foundations determined to be
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	11592
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			06/2020
(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.			



Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter, **Inspection Date:** June 17, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5240	438	4256	546	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1090	Exposed Rebar	SF	2	0	0	2	0
1130	Cracking (RC and Other)	SF	720	0	180	540	0
1190	Abrasion/Wear (PSC/RC)	SF	4076	0	4076	0	0
215	Reinforced Concrete Abutment	LF	124	112	0	12	0
1130	Cracking (RC and Other)	LF	4	0	0	4	0
6000	Scour	LF	8	0	0	8	0
227	Reinforced Concrete Pile	EA	26	25	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
234	Reinforced Concrete Pier Cap	LF	149	133	0	16	0
1080	Delamination/Spall/Patched Area	LF	5	0	0	5	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
301	Pourable Joint Seal	LF	251	227	0	0	24
2320	Seal Adhesion	LF	24	0	0	0	24
321	Reinforced Concrete Approach Slab	SF	2920	2666	0	254	0
1080	Delamination/Spall/Patched Area	SF	18	0	0	18	0
1130	Cracking (RC and Other)	SF	236	0	0	236	0
331	Reinforced Concrete Bridge Railing	LF	240	198	42	0	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0







S3 b3 p2

Maintenance Needs

Date Reported: 09/06/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Approach Slab has some sealable cracking with a few deteriorated areas to the North Approach Slab. North Approach Slab Concrete Gutters, left & right, has heavy deterioration and up to 2in. deep spalls, see 2016 photo. Some asphalt patched areas to the left approach gutter since last inspection, see 2016 photo.

Remarks





Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter **Inspection Date:** June 17, 2020

Date Reported: 09/06/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Bent 3 Concrete Pile 2 has a 1.5' X 1' X 2" deep spall with exposed reinforcement at top of pile.

Remarks





Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter **Inspection Date:** June 17, 2020

Date Reported: 09/06/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Top of Concrete Slab has several open unsealed cracks and light scale.

Top of Concrete Slab has a 1' x 1' delaminated area, a 1' x 1' spall in the right lane with no rebar exposed, and a 6" x 18" spall with rebar exposed in the right lane.

Bottom of Concrete Slab has some hairline cracks in concrete and a 1' x 1' spall at Span 1 right key way over bent 1 with no rebar exposed.

Poured Joint Material has separated and losing adhesion with some areas beginning to fall out.

Remarks



Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter **Inspection Date:** June 17, 2020

Date Reported: 06/15/2016

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component: Channel

Deficiency Description

Concrete Abutment Bent 5 has some embankment erosion with up to 2.5' of undermining of cap from roadway runoff exposing Pile 2.

Remarks





Bridge #A3284(Routine, Underwater type 2)
I-55SB-12-LM 57.99 over DRAINAGE DITCH NUMBER 6

Location: .55 MI NO OF SH 148

Team Lead: Alan Walter **Inspection Date:** June 17, 2020

Date Reported: 06/15/2016
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Right end of Concrete Cap Bent 4 is deteriorated with some section loss, no rebar exposed and some honeycomb areas to face of Cap.

Remarks



Inspection Comments

-

Deck Notes

Concrete rail has moderate width cracks.

Approach Slab has some seal able cracking with a few deteriorated areas to the North Approach Slab.

North Approach Slab Concrete Gutters, left & right, has heavy deterioration and up to 2" deep spalls.

Some asphalt patched areas to the left approach gutter since last inspection.

Concrete deck has several open unsealed cracks and light scale.

Concrete deck span 1 has a 1' x 1' delaminated area, a 1' x 1' spall in the right lane with no exposed rebar, and a 6" x 18" spall with exposed rebar in the right lane.

Poured Joint Material has separated and losing adhesion with some areas beginning to fall out.

Superstructure Notes

Soffit portion of concrete slab has some hairline cracks in concrete and a 1' x 1' spall on Span 1 haunch at right key way over bent 1 with no exposed rebar.

Substructure Notes

Concrete abutments and caps have some moderate width cracking, some with efflorescence & a few delaminated areas.

Span 1 side of bent 2 right side of cap 1 small crack in spacer block above cap and below deck.

Bent 1 has some minor erosion.

Bent 2 cap span 2 side over pile 2 has a vertical crack with efflorescence.

Bent 3 cap span 3 side over pile 2 has a large spall with exposed rebar with some section loss.

Bent 3 cap over pile 3 has a vertical crack with efflorescence and a small spall on right side.

Bent 3 cap has a 1 ft. crack with no efflorescence on bottom of cap.

Bent 3, concrete pile 2, has a 1.5' X 1' X 2" deep spall with exposed reinforcement at top of pile.

Bent 4 cap, span 3 side, left key way has a 1' x 1' x 4" deep spall with no exposed rebar.

Bent 4 cap, right end is deteriorated with some section loss, no exposed rebar and some honeycomb areas to face of Cap.

Bent 4 at pile 3 is a small scour hole around pile.

Bottom of bent 4 cap has a few areas of exposed rebar & delaminated areas.

Bent 4 cap has a vertical crack at left & right key way.

Bent 5 abutment has some embankment erosion with up to 2.5' of undermining of cap from roadway runoff exposing 2 piles.