



Latitude:34.85724, Longitude:-90.60631

Route:79 Section:16 Log:11.51

Arnold Road ID:39x79x16xA, Arnold Log mile:11.512

District 01, 77 - Lee County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

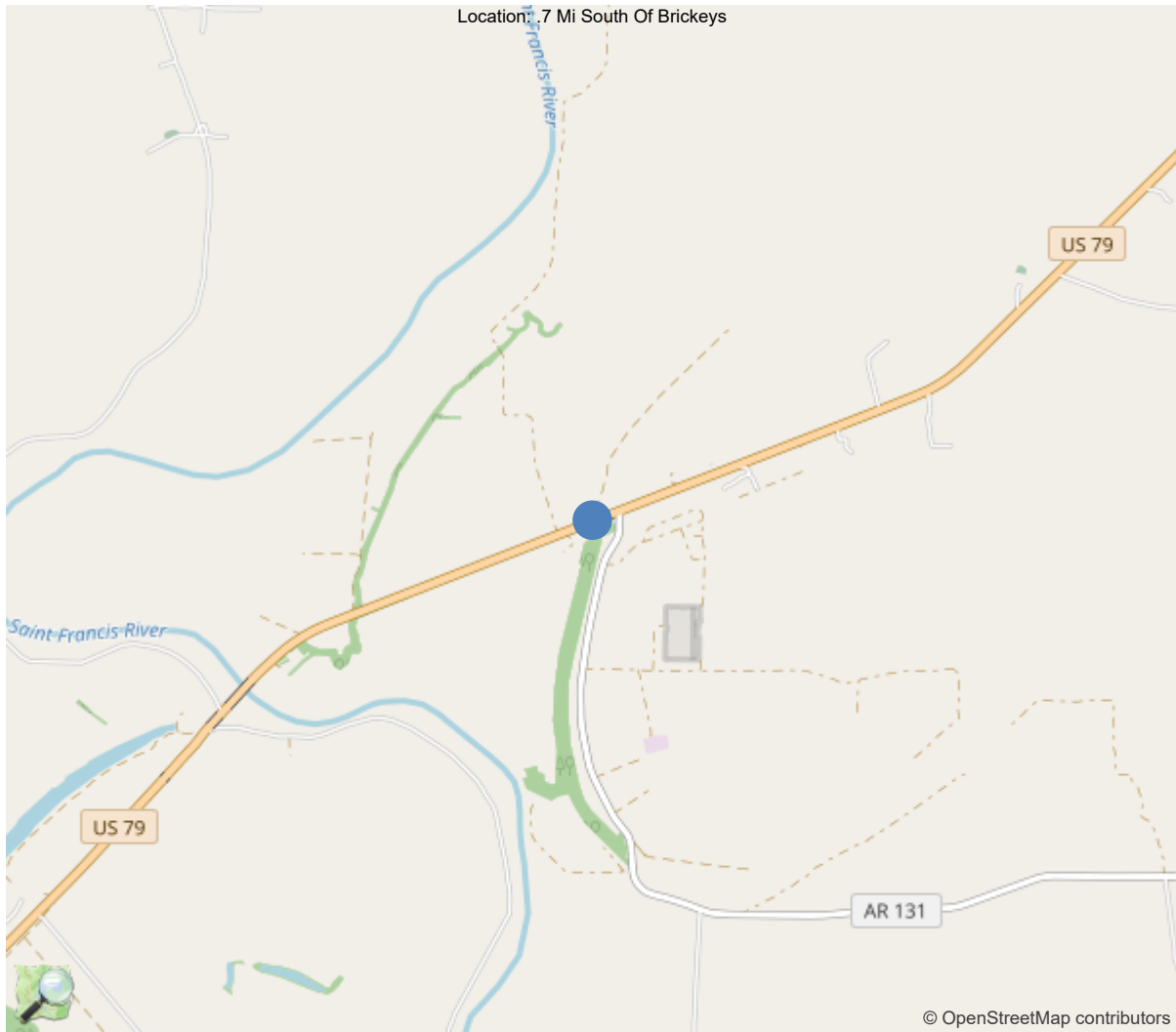
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



34.85724, -90.60631



Asset #02534(Other Special Recurring)

Us-79/Sec16/L11.51 over Alligator Bayou

Location: .7 Mi South Of Brickeys

Team Lead: Drew Melton Inspection Date: 11/21/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02534
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	77 - Lee County
(4) Place Code	0
(6) Features Intersected	Alligator Bayou
(7) Facility Carried	Us-79/Sec16/L11.51
(9) Location	.7 Mi South Of Brickeys
(11) Mile Point	11.51 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000079160
(16) Latitude	34.85724
(17) Longitude	-90.60631
(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	11
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1949
(106) Year Reconstructed	1986
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	1800
(30) Year of ADT	2019
(109) Truck ADT	1 %
(19) Bypass, Detour Length	17 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	45 ft
(49) Structure Length	482.2 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)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - 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	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(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	2 - Rural Principal Arterial -
(100) Defense Highway	0 - The inventory route is not
(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	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	4
(61) Channel & Channel Protection	5
(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	
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	
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	1936
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	12/14/2022		
(91) Frequency	24		
(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.			



Asset #02534(Other Special Recurring)

Us-79/Sec16/L11.51 over Alligator Bayou

Location: .7 Mi South Of Brickeys

Team Lead: Drew Melton Inspection Date: 11/21/2023

General Observation

Drawing numbers:26895-900. Widened Job 10075.

11/21/2023 Other Special Recurring inspection only to monitor caps that have spalls under bearings reducing area of support.

Abutment #1 right approach rail has some collision damage.

Most web walls have vertical cracks.

Approach rail abutment #1 right side has collision damage 20' from terminal end.

Small trees and vegetation are growing under and beside bridge with a few bents with vines growing on them.

Spans #1, 2 left slope eroded up to 3' beside bridge

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Deck is in overall satisfactory condition, each span has roughly 10% to 30% of surface area with transverse and longitudinal cracking spaced at less than 5'. Span #5 left lane has a one foot diameter spall with no exposed rebar. Soffit overhangs have transverse hairline cracks, some with light efflorescence. Joint seal at bent #3 has partially failed and bents # 7 and 8 have fallen onto cap, allowing full flow of water and debris through joint.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Superstructure is in overall satisfactory condition, multiple girders have corrosion to bottom flange primarily at girder ends with little section loss at this time with the exception of several girders having corrosion with laminations and moderate section loss around anchor bolt holes. Paint system is beginning to fail with freckled rust throughout unless otherwise noted. Multiple bearings have scaly rust and span #6 bent #6 girder #2 has broken anchor bolt.

60 - Substructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Substructure is in relatively poor condition primarily due to loss of bearing support in caps under masonry plates in span #2, bent #3 under girders #2, 3, 4, 5 and span #8 bent #8 girder #3. Multiple caps have horizontal cracking and areas of spalling, some with exposed rebar with minor section loss. Several columns have minor to moderate areas of cracking, spalling, some with exposed rebar with minor section loss and delaminated areas.

61 - Channel/Channel Protection (5 - Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and brush restrict the channel.)

Channel is in fair condition, trees and brush are growing in channel and there is moderate erosion under deck drains of end spans due to run-off.

A-54 - Sealable Deck Cracks (Y)

Deck each span has cs2 transverse and longitudinal cracks.

A-57 - Girder End and Bearing Painting Needed (Y)

Multiple girder end and bearings have moderate corrosion.

A-58 - Cap Cleaning/Flushing Needed (Y)

Cap have dirt and debris on them.

A-59 - Joint Repair Needed (Yes)

Compression joint seals are weathered and cracked.



Asset #02534(Other Special Recurring)

Us-79/Sec16/L11.51 over Alligator Bayou

Location: .7 Mi South Of Brickeys

Team Lead: Drew Melton **Inspection Date:** 11/21/2023

A-60 - Full Girder Painting Needed (Y)

Steel girders have minor light rust spots showing through paint on web and bottom flange full length.

A-61 - Polymer Overlay Advised (Y)

Deck each span has cs2 transverse and longitudinal cracks.

B.G.13 Maximum Bridge Height (27)

Taken from water surface span 8.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	20565	12626	7938	1	0
1080	Delamination/Spall/Patched Area	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	1928	0	1928	0	0
1130	Cracking (RC and Other)	SF	6010	0	6010	0	0
<p>(12) Deck, each span has roughly 10% to 30% of surface with cs2 transverse and longitudinal sealable cracks some spaced at less than 5'.</p> <p>Span #5 deck left lane has a 1' spall near mid span.</p> <p>Soffit/under surface overhangs have hairline transverse cracks spaced 4' apart with light efflorescence every 10'.</p> <p>(1080-12) Span #5 deck left lane has one foot spall near mid span</p>							
107	Steel Open Girder/Beam	LF	2881	0	2841	40	0
1000	Corrosion	LF	2881	0	2841	40	0
515	Steel Protective Coating	SF	19533	15581	2892	820	240
3440	Effectiveness (Steel Protective Coatings)	LF	3952	0	2892	820	240
<p>(107) Steel girders have minor light rust spots showing through paint on web and bottom flange full length.</p> <p>Multiple girders have corrosion with laminations around anchor bolts.</p> <p>Girder ends have minor corrosion unless otherwise noted.</p> <p>Span #6 bent #6 girder #2 right anchor bolt broken.</p>							
205	Reinforced Concrete Column	EA	24	10	5	9	0
1080	Delamination/Spall/Patched Area	EA	3	0	1	2	0
1090	Exposed Rebar	EA	7	0	0	7	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
<p>(205) Bent #3 column #2 has cs2 crack for 3' at top on back face.</p> <p>Bent #3 column #2 has cs3 cracks for 5' with delaminated area on ahead face.</p> <p>Bent #4 column #1 has a 1' delaminated area with spalling and honeycomb on ahead face.</p> <p>Bent #4 column #2 has cs2 cracks for 1' at top.</p> <p>Bent #4 column #2 has a 6" piece of exposed rebar with minor section loss at footing on ahead face.</p> <p>Bent #5 column #3 has several pieces of exposed rebar with minor section loss on ahead face.</p> <p>Bent #6 column #1 has a 6" spall with exposed rebar with minor section loss at top on back face.</p> <p>Bent #6 column #1 has 2 spalls with exposed rebar with minor section loss and 1 delaminated area on right side ahead face above web wall.</p> <p>Bent #7 column #3 has a 1' area of honeycomb and 2 pieces of rebar exposed with minor section loss on left side.</p> <p>Bent #7 column #5 has 2 pieces of exposed rebar minor section loss on left side.</p> <p>Bent #8 column #3 has spalls with 5' exposed rebar minor section loss 4' above ground on ahead face.</p> <p>Bent #9 column #2 has 2' delaminated area on back face.</p> <p>Bent #9 column #3 has one 6" spall and one 6" delaminated area on ahead face.</p>							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent #10 column #1, 2, 3 each have a 1' spall with exposed rebar with moderate section loss 4' above ground on the back face. Bent #10 columns #1, 2, 3 each have horizontal cracks with light efflorescence 6" to 1' below cap.							
210	Reinforced Concrete Pier Wall	LF	140	18	122	0	0
1010	Cracking	LF	12	0	12	0	0
1190	Abrasion/Wear (PSC/RC)	LF	110	0	110	0	0
(210) Web walls all each have cs2 vertical cracks. Bents #4 thru 9 have light abrasion with no loose aggregate.							
215	Reinforced Concrete Abutment	LF	100	96	0	4	0
1120	Efflorescence/Rust Staining	LF	4	0	0	4	0
(215) Abutment back wall's have hairline vertical cracks spaced four feet with light efflorescence and rust staining on two cracks each abutment.							
220	Reinforced Concrete Pile Cap/Footing	LF	196	0	196	0	0
6000	Scour	LF	196	0	196	0	0
(220) Bent #3 footing on right end exposed 1' 6". Bent #4 footing exposed right end 2' and 3" on the left end. Bent #5 footing exposed left end 3' and 1' at the right end. Bent #6 footing exposed full length left side and 1' 6" to ground level on right. Bent #7 footing on left end is exposed 1' 6". Bent #10 footing on left end is exposed 2'.							
227	Reinforced Concrete Pile	EA	46	45	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
(227) Bent #7 pile #2 has 1' shallow delaminated area at top back face. Bent #8 pile #7 has a 6" spall rebar exposed minor section loss 6' above ground back face. Bent #10 pile #1 has a 3' long vertical crack on back face.							
234	Reinforced Concrete Pier Cap	LF	493	396	1	85	11
1080	Delamination/Spall/Patched Area	LF	16	0	0	5	11
1090	Exposed Rebar	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	72	0	1	71	0
(234) Caps have cs2 vertical cracks at most widening area at construction joint. Bent #3 cap left side between pile #1, 2 and column #1 is spalled with exposed rebar moderate section loss (end of original cap). Bent #3 cap right side between pile #3, 4 and column #3 is spalled with exposed rebar moderate section loss (end of original cap). Bent #3 cap ahead face has horizontal cs3 cracks for 15' with a 2' delaminated area between girders #4, 5 between girders #3 and 5. Bent #3 cap back face bearing riser is spalled for approximately 3.5 feet long and 3.5 inches under span #2 girder #2 extending up to 3" underneath bearing masonry plate with exposed rebar moderate section loss. Bent #3 cap back face under girder #3 bearing riser is cracked and spalled for 3' extending under bearing masonry plate. Bent #3 cap back face under girder #4 bearing riser has 3' crack with delamination extending underneath bearing masonry plates. Bent #3 cap back face bearing riser spalled under girder #5 for 3' extending underneath bearing masonry plate up to 1" with exposed rebar moderate section loss. Bent #3 cap back face has cs2 cracks for 6' between girders #2, 5. Bent #4 cap right end has vertical hairline crack. Bent #4 cap ahead face has horizontal cs3 cracks for 20' between girders #2, 5.							



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Location: .7 Mi South Of Brickeys

Team Lead: Drew Melton Inspection Date: 11/21/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
<p>Bent #4 cap back face has horizontal cs3 cracks for 4' between girders #3 and 4. Bent #4 cap bottom left corner near column #1 has a 1' spall exposed rebar with moderate section loss. Bent #4 cap right end of old cap section at bent # 3&5 has small spalls with exposed rebar minor section loss.</p> <p>Bent #5 cap right end has 1' of cracking and delaminated area at end of old cap and new cap. Bent #5 cap ahead face right side extension is cracked and delaminated for 2' at top. Bent #5 ahead face has cs3 cracks horizontally for 20' between girders #3, 5. Bent #5 cap back face at top has cs3 cracks horizontally for 12' starting at girder #3.</p> <p>Bent #6 cap ahead face right side under girder #6 has cracks and delaminated for 1' with exposed rebar minor section loss. Bent #6 cap ahead face has cs3 cracks horizontally for 4' between girders #3, 4. Bent #6 cap back face has cs3 cracks for 10' between girders #2, 5. Bent #6 cap back face right side has small spall on corner with exposed rebar minor section loss. Back #6 cap back face has 6" spall with exposed rebar minor section loss above column #2. Bent #6 cap has vertical crack at cold joint between girders #1 and 2.</p> <p>Bent #8 cap ahead face has cracks, delaminated area, and spalled under girder #3 full width of bearing riser. Bent #8 cap ahead face left side bottom corner has a 1' spall with exposed rebar minor section loss. Bent #8 cap ahead face has cracks horizontally for 3' between girders #3, 4. Bent #8 cap ahead face under girder #5 has several hairline cracks with light efflorescence.</p> <p>Bent #9 cap ahead face has cs3 cracks and delaminated area for 2' between columns #2, 3. Bent #9 cap ahead face right side has cracks and spalled with exposed rebar minor section loss for 2'. Bent #9 back face right side has a 1' crack/delaminated area with rust staining between girders #5, 6. Bent #9 cap bottom has cracks and delaminated area for 2' between columns #4 and #5.</p> <p>Bent #10 cap ahead face right side has a 6" delaminated area, and a 4" spall with exposed rebar with moderate section loss. Bent #10 cap end of old cap right side is spalled with exposed rebar moderate section loss.</p> <p>Bent #11 cap back face bottom has 6" spall with exposed rebar with moderate section loss at pile #3.</p>							
302	Compression Joint Seal	LF	480	0	390	10	80
2310	Leakage	LF	90	0	0	10	80
2340	Seal Cracking	LF	390	0	390	0	0
<p>(302) Compression joint seals are weathered and cracked. Joint steel on deck has no paint left. Joint seal at bent #3 is hanging down for ten feet in the center and 8' lost adhesion and sagging. Joint seals at bents #7,8 have failed and fallen down onto cap.</p>							
311	Movable Bearing	EA	66	0	0	66	0
1000	Corrosion	EA	66	0	0	66	0
515	Steel Protective Coating	SF	132	0	0	0	132
3440	Effectiveness (Steel Protective Coatings)	EA	132	0	0	0	132
<p>(311) Bearings are corroded with laminations up to minor section loss. Little to no paint left on bearings.</p>							
313	Fixed Bearing	EA	66	0	0	66	0
1000	Corrosion	EA	65	0	0	65	0
1020	Connection	EA	1	0	0	1	0
515	Steel Protective Coating	SF	132	0	0	0	132



11/21/2023

Side view-Elevation



01/09/2023

Side View / Elevation



12/14/2022

Spans #1 and 2 left slope eroded up to three feet beside bridge



12/14/2022

Span #1 right slope has minor erosion under deck drains



Vines growing onto bridge abutment #1 right side



Abutment #1 right approach gutter has small void underneath at bridge end



Span #10 slope right side eroded up to three feet deep under deck drains

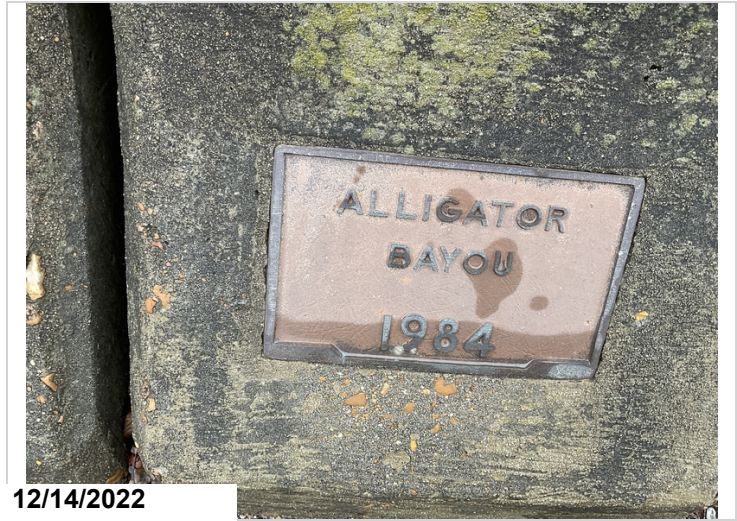


Abutment #2 slope right side has erosion vein up to 2' deep due to roadway runoff



12/14/2022

Abutment #2 log mile sign



12/14/2022

Name plate



12/14/2022

Abutment #1 log mile sign



11/21/2023

Typical soffit/under surface



Typical deck



Typical interior bent



Channel left side



Channel right side



11/21/2023

Top view-Inventory



01/09/2023

Top View / Inventory



01/10/2023

Typical longitudinal deck crack



01/10/2023

Span #1 deck



Span #2 deck



Span #3 deck



Span #4 deck



Span #5 deck



Span #6 deck



Span #7 deck



Span #8 deck



Span #9 deck



01/10/2023

Span #10 deck



01/10/2023

Span #11 deck



01/12/2023

Bent #2 girder #6 bearings are corroded and span #1 and 2 girder #6 bottom flange outside has scaly rust



01/12/2023

Corrosion on bearings and girder ends



Corrosion on girder ends and bearings at bent #7



Bent #7 dirt and debris on caps



Abutment #1 joint.



Bent #2 joint



Bent #4 joint



Bent #5 joint



Bent #6 joint



Bent #9 joint



Bent #10 joint



Bent #11 joint



Abutment #2 joint

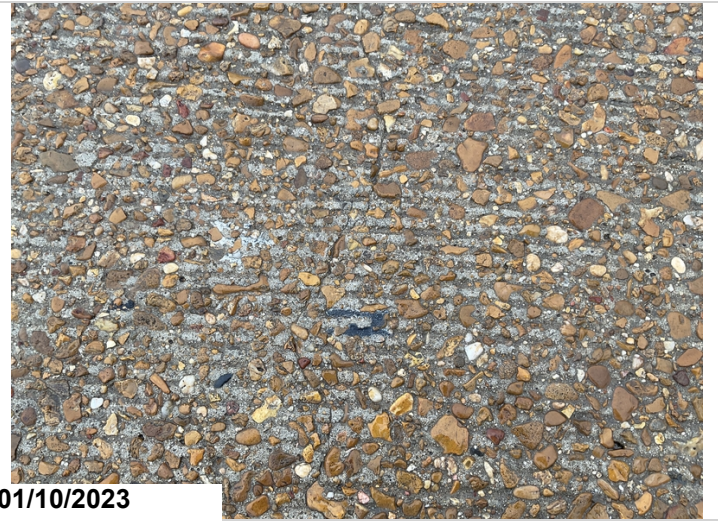


Typical girder paint condition



01/10/2023

Span #5 deck left lane has one foot spall near mid span



01/10/2023

Typical longitudinal deck crack



02/13/2023

Span 8, right side, crack cs 2.



02/13/2023

Span 5, right , spall cs 2. Typical 6, 7



Span 1, right, exposed reinforcing steel, cs 2. Typical 2,3,4, 5, 6, 9



Span 8, left, exposed reinforcing steel, cs 2. Typical 7 , 6 , 4 , 3 , 2, 1.



Span 9, left , exposed rebar, cs 2.



Span 11, left, exposed reinforcing steel, cs 2.



Span 11, right, spall cs 2.



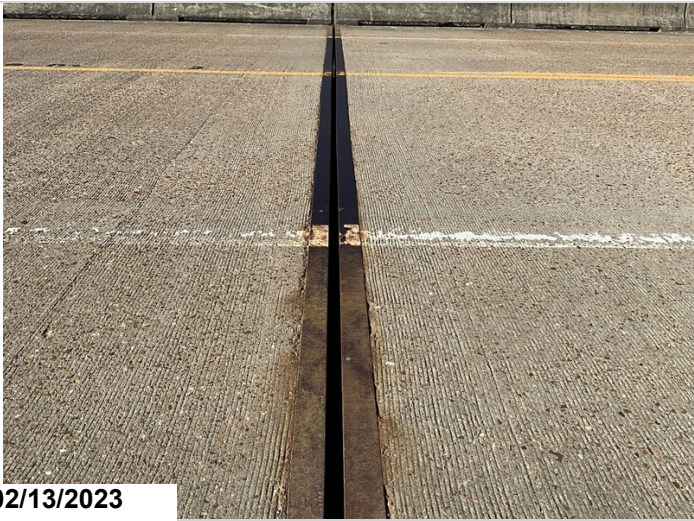
Bent 10 ahead bearing 5, loss of bearing area cs 3. 30%.



Bent 10 ahead, bearings 2 and 5, loss of bearing area.



Bent 12, bearing 6, corrosion cs 3.



Bent 6, leakage, cs 4. Typical 5



Bent 9, torn seal, cs 3.



Bent 10, joint fallen out, leakage, cs 4.



Bent 11, torn seal, cs 3.



Bent 12, damage to joint seal, cs 2.



Span #5 deck left lane has one foot spall near mid span



Typical longitudinal deck crack



Typical girders



Corrosion on bearings and girder ends



Bent #7 corrosion on girder ends and bearing.



Bent #2 girder #6 bearings are corroded and span #1 and 2 girder #6 bottom flange outside has scaly rust



Bent #3 ahead face



Bent #4 column #2 has one foot of vertical cracking near top.
Cs2



Bent #5 back face



Bent #4 ahead face



Bent #4 column #1 ahead face has one foot delaminated
area with spalling at footing.



01/12/2023

Bent #5 column #3 ahead face has several exposed rebar areas due to poor concrete coverage 5% section loss.



01/12/2023

Bent #3 column #2 ahead face has five feet of cracking and delaminated area. Cs3



01/12/2023

Bent #6 back face



01/12/2023

Bent #7 back face



01/12/2023

Bent #6 ahead face



01/12/2023

Bent #6 column #1 ahead face and right side above web wall has two spalls with exposed rebar and one delaminated area. Cs3



01/12/2023

Bent #7 ahead face



01/12/2023

Bent #7 ahead face



Bent #9 back face



Bent #8 column #3 is spalled on ahead face four foot above ground with five feet of exposed rebar 5% section loss.



Bent #9 column #2 back face has two foot delaminated area.



Bent #10 back face



Bent #10 column #1, 2, 3 each have one foot spalls four foot above ground on the back face with rebar exposed 10% section loss.



Bent #9 ahead face



Bent #10 cap ahead face right side has a six inch delamination and a four inch spall with exposed rebar with 10% section loss.



Bent #10 columns #1, 2, 3 have horizontal cracking with light efflorescence six inches to one foot below cap.



01/05/2023

Bent #9 column #3 ahead face has one six inch spall, and one six inch delaminated area.



01/05/2023

Bent #4 back face



01/05/2023

Bent #3 back face



12/14/2022

Abutment #1



12/14/2022

Abutment #2



01/12/2023

Bent #7 pile #2 has 1' shallow delaminated area at top back face.



01/12/2023

Bent #10 back face

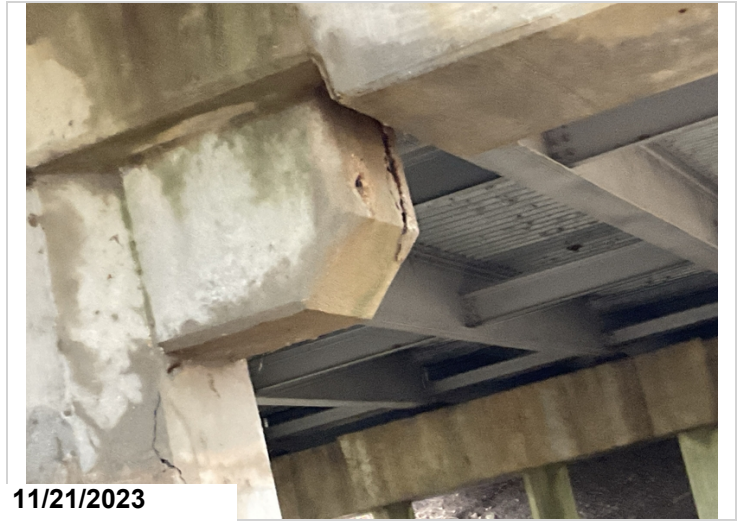


12/14/2022

Bent #10 ahead face



Bent #10 cap ahead face right side has a 6" delaminated area, and a 4" spall with exposed rebar with moderate section loss.



Bent #10 cap end of old cap right side is spalled with exposed rebar moderate section loss.



Typical vertical crack at construction joint.



Bent #9 cap ahead face has cs3 cracks and delaminated area for 2' between columns #2, 3.



Bent #9 cap ahead face right side has cracks and spalled with exposed rebar minor section loss for 2'.



Bent #9 back face right side has a 1' crack/delaminated area with rust staining between girders #5, 6.



Bent #9 cap bottom has cracks and delaminated area for 2' between columns #4 and #5.



Bent #8 cap ahead face under girder #5 has several hairline cracks with light efflorescence.



11/21/2023

Bent #8 cap ahead face left side bottom corner has a 1' spall with exposed rebar minor section loss.



11/21/2023

Bent #8 cap ahead face has cracks, delaminated area, and spalled under girder #3 full width of bearing riser.



11/21/2023

Bent #8 cap ahead face has cracks, delaminated area, and spalled under girder #3 full width of bearing riser.



11/21/2023

Bent #8 cap ahead face has cracks horizontally for 3' between girders #3, 4.



Bent #6 cap ahead face has cs3 cracks horizontally for 4' between girders #3, 4.



Bent #6 cap ahead face right side under girder #6 has cracks and delaminated for 1' with exposed rebar minor section loss.



Bent #6 cap back face right side has small spall on corner with exposed rebar minor section loss.



Back #6 cap back face has 6" spall with exposed rebar minor section loss above column #2.



Bent #6 cap back face has cs3 cracks for 10' between girders #2, 5.



Bent #5 ahead face has cs3 cracks horizontally for 20' between girders #3, 5.



Bent #5 cap ahead face right side extension is cracked and delaminated for 2' at top.



Bent #5 cap right end has 1' of cracking and delaminated area at end of old cap and new cap.



11/21/2023

Bent #5 cap right end has 1' of cracking and delaminated area at end of old cap and new cap.



11/21/2023

Bent #5 cap back face at top has cs3 cracks horizontally for 12' starting at girder #3.



11/21/2023

Bent #4 cap ahead face has horizontal cs3 cracks for 20' between girders #2, 5.



11/21/2023

Bent #4 cap right end of old cap section at bent # 3&5 has small spalls with exposed rebar minor section loss.



Bent #4 cap back face has horizontal cs3 cracks for 4' between girders #3 and 4.



Bent #3 cap ahead face has horizontal cs3 cracks for 15' with a 2' delaminated area between girders #4, 5 between girders #3 and 5.



Bent #3 cap back face has cs2 cracks for 6' between girders #2, 5.



Bent #3 cap back face bearing riser spalled under girder #5 for 3' extending underneath bearing masonry plate up to 1" with exposed rebar moderate section loss.



Bent #3 cap back face bearing riser spalled under girder #5 for 3' extending underneath bearing masonry plate up to 1" with exposed rebar moderate section loss.



Bent #3 cap back face under girder #4 bearing riser has 3' crack with delamination extending underneath bearing masonry plates.



Bent #3 cap back face under girder #4 bearing riser has 3' crack with delamination extending underneath bearing masonry plates.



Bent #3 cap back face under girder #3 bearing riser is cracked and spalled for 3' extending under bearing masonry plate.



11/21/2023

Bent #3 cap back face under girder #3 bearing riser is cracked and spalled for 3' extending under bearing masonry plate.



11/21/2023

Bent #3 cap back face bearing riser is spalled for approximately 3.5 feet long and 3.5 inches under span #2 girder #2 extending up to 3" underneath bearing masonry plate with exposed rebar moderate section loss.



11/21/2023

Bent #3 cap back face bearing riser is spalled for approximately 3.5 feet long and 3.5 inches under span #2 girder #2 extending up to 3" underneath bearing masonry plate with exposed rebar moderate section loss.



11/21/2023

Bent #3 cap right side between pile #3, 4 and column #3 is spalled with exposed rebar moderate section loss (end of original cap).



01/12/2023

Bent #3 cap left side between pile #1, 2 and column #1 is spalled with exposed rebar moderate section loss (end of original cap).



01/12/2023

Bent #4 cap right end has vertical hairline crack



12/14/2022

Bent #11 back face



12/14/2022

Bent #11 ahead face



Bent #11 joint



Bent #10 joint



Bent #9 joint



Bent #8 joint has fallen out



Bent #7 joint has fallen out



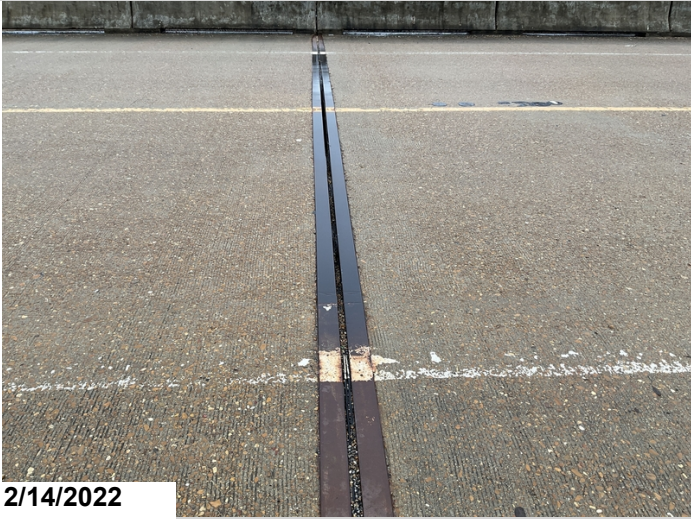
Bent #6 joint



Bent #5 joint



Bent #4 joint



Bent #3 joint seal has 10' that has fallen out and 8' with lost adhesion and sagging



Bent #2 joint



Abutment #1 joint seal weathered and torn



Corrosion on bearings and girder ends



Bent #7 corrosion on girder ends and bearing.



Span #6 bent #6 girder #2 right anchor bolt broken.



Corrosion on bearings and girder ends



Bent #7 corrosion on girder ends and bearing.



Typical abutment bearing



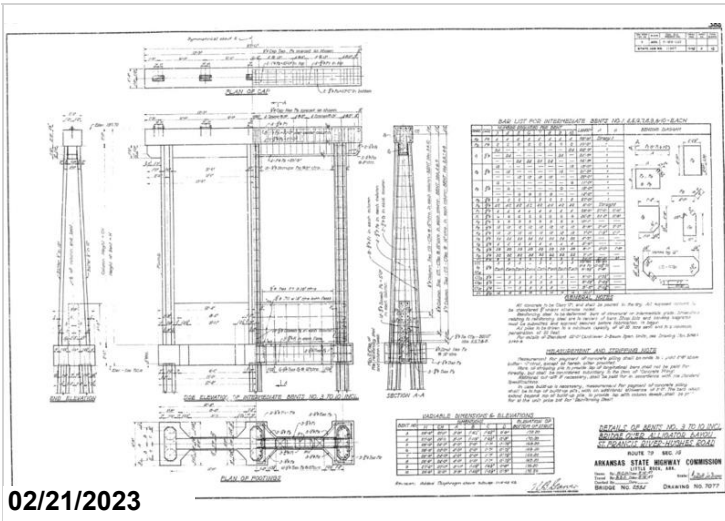
Typical exposed rebar in concrete bridge rail



Bridge rail left side



Bridge rail right side



Drawing 7077, interior bents 3-10, original structure.

Maintenance Needs

Date Reported: 01/10/2023

Priority: A - Safety deficiency; requires prompt action

Status: Assigned

Type of Work: Substructure Repair

Component: Substructure

Deficiency Description

Bent #3 cap back face spalled for approximately 3.5 feet long under span #2 girder #2 extending up to three inches underneath bearing masonry plate with exposed rebar.

Bent #3 cap back face under girder #3 bearing riser has three foot crack with delamination extending underneath bearing masonry plates.

Bent #3 cap back face under span #2 girder #4 bearing riser has two foot crack with delamination extending underneath bearing masonry plates

Bent #3 cap back face spalled under span #2 girder #5 for two feet extending underneath bearing masonry plate up to one inch with exposed rebar

Bent #8 cap ahead face cracked and delaminated and spalled under girder #3, full width of riser.

Remarks



Bent #3 cap back face bearing riser under girders #4 bearing risers have three foot crack with delamination extending underneath bearing masonry plates.



Bent #8 cap ahead face bearing riser cracked and delaminated and spalled under girder #3.



Bent #3 cap back face bearing riser spalled for approximately 3.5 feet under span #2 girder #2 extending up to three inches underneath bearing masonry plate with exposed rebar



Bent #3 cap back face bearing riser spalled for approximately 3.5 feet under span #2 girder #2 extending up to three inches underneath bearing masonry plate with exposed rebar



Bent #3 cap back face bearing riser spalled for approximately 3.5 feet under span #2 girder #2 extending up to three inches underneath bearing masonry plate with exposed rebar



Bent #3 cap back face bearing riser under girder #3 bearing risers have three foot crack with delamination extending underneath bearing masonry plates.



01/10/2023

Bent #3 cap back face under girder #3 bearing riser has three foot crack with delamination extending underneath bearing masonry plates.



01/10/2023

Bent #3 cap back face under girders #4 bearing riser has three foot crack with delamination extending underneath bearing masonry plates.



01/10/2023

Bent #3 cap back face spalled under girder #5 for two feet extending underneath bearing masonry plate up to one inch with exposed rebar



01/05/2023

Bent #8 cap ahead face cracked and delaminated and spalled under girder #3.

Maintenance Needs

Date Reported: 11/17/2010

Priority: C - Important

Type of Work: Replace (General)

Status: Monitor

Component: Element

Deficiency Description

Joint seal at bent #3 is hanging down for ten feet in the center.
Joint seals at bents #7,8 have failed and fallen down onto cap.

Remarks



Bent #3 joint seal has 10' that has fallen out and 8' with lost adhesion and sagging



Bent #8 joint has fallen out



Bent #7 joint has fallen out

Maintenance Needs

Date Reported: 11/10/2014

Priority: C - Important

Type of Work: Miscellaneous

Status: Monitor

Component: Channel

Deficiency Description

Small trees and vegetation are growing under and beside bridge with a few bents with vines growing on them.

Remarks



Vegetation growing beside and under bridge



Trees and vegetation growing beside and under bridge



Vegetation is growing beside and under bridge.



Vegetation growing on bent #11.



Bent #2 vines growing on bent.

Maintenance Needs

Date Reported: 11/10/2014

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Channel

Deficiency Description

Bent #3 footing on right end exposed one and a half feet.

Bent #4 footing exposed right end two feet and three inches on the left end.

Bent #5 footing exposed left end three feet and one foot at the right end.

Bent #6 footing exposed full length left side and one and a half feet to ground level on right.

Bent #7 footing on left end is exposed one and a half feet.

Bent #10 footing on left end is exposed two feet.

Remarks



Bent #10 footing on left end is exposed 2'.



Bent #7 footing on left end is exposed 1 1/2'.



11/18/2020

Bent #6 footing exposed full length left side and 1 1/2' to ground level on right.



11/18/2020

Bent #3 footing on right end exposed 1 1/2 foot.



11/18/2020

Bent #4 footing exposed right end 2' and 3' on the left end.



11/18/2020

Bent #5 footing exposed left end 3' and 1' at the right end.



Asset #02534(Other Special Recurring)

Us-79/Sec16/L11.51 over Alligator Bayou

Location: .7 Mi South Of Brickeys

Team Lead: Drew Melton Inspection Date: 11/21/2023

Maintenance Needs

Date Reported: 11/19/2020

Priority: C - Important

Status: Forward State

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bent #3 cap left side between pile #1, 2 and column #1 spalled with exposed rebar (end of original cap).
Bent #3 cap right side between pile #3, 4 and column #3 spalled with exposed rebar (end of original cap).
Bent #3 cap cracked for six feet back face between girders #2 and 5. Cs3
Bent #3 cap ahead face between girders #3 and 5 has horizontal cracking for 15' with a two foot delaminated area between girders #4 and 5. Cs3
Bent #4 cap right end has vertical hairline crack
Bent #4 cap ahead face has horizontal cracking between girders #2 and 5 for twenty feet. Cs3
Bent #4 cap back face between girders #3 and 4 has four foot of horizontal cracking. Cs3
Bent #4 cap bottom left corner near column #1 has one foot spall exposed rebar with 15% section loss. Right end of old cap section at bent # 3&5 have small spalls with exposed rebar due to poor coverage 5% section loss
Bent #5 cap back face at top cracked horizontally for twelve feet. Cs3
Bent #5 cap right end has one foot of cracking and delaminated area
Bent #5 cap ahead face right side extension cracked and delaminated for two feet at top
Bent #5 ahead face cracked horizontally between girders #3 and 5 twenty feet near top. Cs3
Bent #6 cap back face has ten feet of cracking between girders #2 and 5. Cs3
Bent #6 cap back face right side has small spall on corner with exposed rebar.
Back #6 cap back face has six inch spall with exposed rebar above column #2.
Bent #6 cap has vertical crack at cold joint between girders #1 and 2. Bent #6 cap back face right side has small spall on corner with exposed rebar.
Bent #6 cap ahead face right side under girder #6 cracked and delaminated for one foot with exposed rebar
Bent #6 cap ahead face between girders #3 and 4 cracked horizontally for four feet. Cs3
Bent #8 cap ahead face left side bottom corner has one foot spall with exposed rebar.
Bent #8 cap ahead face cracked horizontally for three feet between girders #3 and 4.
Bent #9 ahead face has two foot cracked and delaminated area between columns #2 and 3. Cs3
Bent #9 cap ahead face right side cracked and spalled with exposed rebar for two feet
Bent #9 back face right side between girders #5 and 6 has one foot cracked / delaminated area with rust staining
Bent #9 cap bottom between columns #4 and #5 has two foot long area crack and delamination.
Bent #9 cap has two foot spall right end with exposed rebar 10% section loss on bottom cord, and also back face left end.
Bent #10 cap ahead face right side has a six inch delamination and a four inch spall with exposed rebar with 10% section loss.
Bent #10 back face under girder #5 has two feet of horizontal cracking with light efflorescence
Bent #11 cap back face bottom chord of cap at pile #3 has six inch spall with exposed rebar with 20% section loss.

Remarks



01/12/2023

Bent #10 cap ahead face right side has a six inch delamination and a four inch spall with exposed rebar with 10% section loss.



01/12/2023

Bent #3 cap left side between pile #1 and column #2 spalled with exposed rebar



01/12/2023

Bent #3 cap cracked for six feet back face between girders #2 and 5. Cs2



01/12/2023

Bent #3 cap ahead face between girders #3 and 5 has horizontal cracking for 15' with a two foot delaminated area between girders #4 and 5. Cs3



Bent #4 cap right end has vertical hairline crack



Bent #4 ahead face has horizontal cracking between girders #2 and 5 for twenty feet. Cs3



Bent #4 column #1 ahead face has one foot delaminated area with spalling at footing.



Bent #5 cap back face at top cracked horizontally for twelve feet. Cs3



Bent #5 cap right side of original cap delaminated on end.
Bent #5 cap right end has one foot of cracking and delaminated area.



Bent #5 cap ahead face right side extension cracked and delaminated for two feet at top.



Bent #5 cap ahead face cracked horizontally between girders #3 and 5 twenty feet near top. Cs3



Bent #6 cap back face has ten feet of cracking between girders #2 and 5.



Bent #6 cap has vertical crack at cold joint between girders #1 and 2.



Bent #6 cap back face right side has small spall on corner with exposed rebar.



Bent #6 cap ahead face right side under girder #6 cracked and delaminated for one foot with exposed rebar



Bent #6 cap ahead face between girders #3 and 4 cracked horizontally for four feet



01/12/2023

Bent #8 cap ahead face left side bottom corner has one foot spall with exposed rebar



01/12/2023

Bent #9 back face right side between girders #5 and 6 has one foot cracked / delaminated area with rust staining



01/12/2023

Bent #9 cap ahead face right side cracked and spalled with exposed rebar for two feet



01/12/2023

Bent #9 ahead face has two foot cracked and delaminated area between columns #2 and 3. Cs3



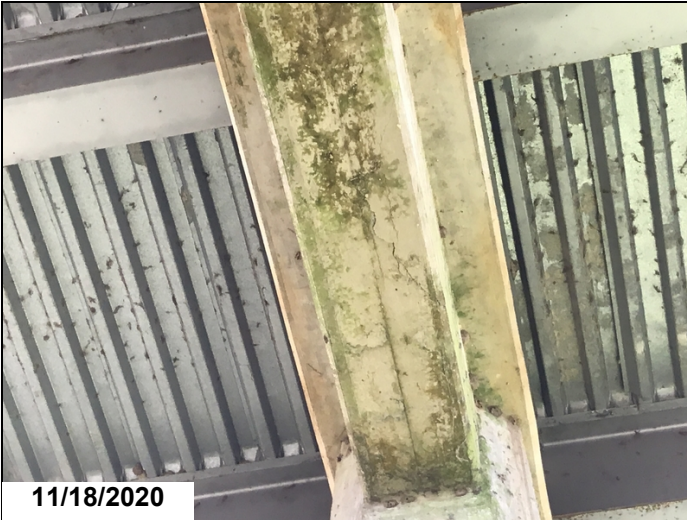
01/05/2023

Bent #3 cap left side between pile #1 and column #2
spalled with exposed rebar



11/18/2020

Bent #11 back face bottom chord of cap at pile #3 has 6"
spall with exposed rebar with 20% section loss.



11/18/2020

Bent #9 cap bottom between columns #4 and #5 has 2'
long area crack and delamination.



11/18/2020

Bent #9 cap has two foot spall right end with exposed
rebar 10% section loss on bottom cord backface and left
end.



Bent #8 cap ahead face bearing riser under girder #3 is cracked longitudinally full width.



Bent #6 cap back face has 4' long crack under girder #3.



Bent #3 cap ahead face is cracked near top for twenty feet between girders #3,5.



Bent #4 cap bottom left corner near column #3 has one foot spall exposed rebar with 15% section loss.

Maintenance Needs

Date Reported: 01/09/2023

Priority: C - Important

Type of Work: Deck Repair

Status: Forward State

Component: Deck

Deficiency Description

Span #5 deck, left lane, near mid span has one foot spall with no exposed rebar.

Remarks



Span #5 deck left lane has one foot spall near mid span

Maintenance Needs

Date Reported: 11/02/2016

Priority: D- Routine

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bent #3 column #2 cracked for three feet at top back face. Cs2

Bent #3 column #2 ahead face has five feet of cracking and delaminated area. Cs3

Bent #4 column #1 ahead face has a one foot delaminated area with spalling and honeycomb. Cs3

Bent #4 column #2 has one foot of vertical cracking near top. Cs2

Bent #4 column #2 has six inch piece of exposed rebar due to poor concrete coverage on ahead face at footing.

Bent #5 column #3 ahead face has several pieces of exposed rebar areas due to poor concrete coverage 5% section loss.

Bent #6 column #1 back face at top has a six inch spall with exposed rebar.

Bent #6 column #1 ahead face and right side above web wall has two spalls with exposed rebar and one delaminated area. Cs3

Bent #7 column #5 left side has two pieces of exposed rebar due to poor concrete coverage 5% section loss.

Bent #7 column #3 left side has a one foot area of honeycomb and two pieces of rebar exposed due to poor concrete coverage 5% section loss.

Bent #8 column #3 is spalled on ahead face four foot above ground with five feet of exposed rebar 5% section loss.

Bent #9 column #2 back face has two foot delaminated area.

Bent #9 column #3 ahead face has one six inch spall, and one six inch delaminated area.

Bent #10 column #1, 2, 3 each have one foot spalls four foot above ground on the back face with rebar exposed 10% section loss.

Bent #10 columns #1, 2, 3 have horizontal cracking with light efflorescence six inches to one foot below cap.

Remarks



01/12/2023

Bent #4 column #2 has one foot of vertical cracking near top. Cs2



01/12/2023

Bent #5 column #3 ahead face has several exposed rebar areas due to poor concrete coverage 5% section loss.



01/12/2023

Bent #3 column #2 ahead face has five feet of cracking and delaminated area. Cs3



01/12/2023

Bent #6 column #1 ahead face and right side above web wall has two spalls with exposed rebar and one delaminated area. Cs3



01/12/2023

Bent #8 column #3 is spalled on ahead face four foot above ground with five feet of exposed rebar 5% section loss.



01/12/2023

Bent #9 column #2 back face has two foot delaminated area.



Bent #10 column #1, 2, 3 each have one foot spalls four foot above ground on the back face with rebar exposed 10% section loss.



Bent #10 cap ahead face right side has a six inch delamination and a four inch spall with exposed rebar with 10% section loss.



Bent #10 cap back face under girder #5 has two feet of horizontal cracking with light efflorescence



Bent #10 columns #1, 2, 3 have horizontal cracking with light efflorescence six inches to one foot below cap.



11/18/2020

Bent #10 column #3,4,5 have 1' spalls 4' above ground on the back face with rebar exposed 10% section loss.



11/18/2020

Bent #9 column #3 ahead face 1 spall 6" and 1 delamination 6".



11/18/2020

Bent #8 column #4 is spalled on ahead face 4' above ground with five feet of exposed rebar 5% section loss.



11/18/2020

Bent #7 column #5 left side has 2 pieces of exposed rebar due to poor concrete coverage.



11/18/2020

Bent #6 column #3 backface at top has 1' delamination.



11/18/2020

Bent #4, column #3 ahead face has 1' area of spall and honeycomb.

Maintenance Needs

Date Reported: 01/12/2023

Priority: D- Routine

Type of Work: Superstructure Repair

Status: Forward State

Component: Superstructure

Deficiency Description

Span #6 bent #6 girder #2 right anchor bolt broken.

Remarks



Span #6 bent #6 girder #2 right anchor bolt broken.

Maintenance Needs

Date Reported: 01/12/2023

Priority: D- Routine

Type of Work: Channel Work/Drift Removal

Status: Forward State

Component: Channel

Deficiency Description

Spans #1 and 2 left slope eroded up to three feet beside bridge

Span #1 right slope has minor erosion under deck drains

Span #10 slope right side eroded up to three feet deep under deck drains

Abutment #2 slope right side has erosion vein up to 2' deep due to roadway runoff

Remarks



Abutment #2 slope right side has erosion vein up to 2' deep due to roadway runoff



Span #10 slope right side eroded up to three feet deep under deck drains



Span #1 right slope has minor erosion under deck drains



Spans #1 and 2 left slope eroded up to three feet beside bridge

Maintenance Needs

Date Reported: 01/12/2023

Priority: D- Routine

Type of Work: Repair (General)

Status: Forward State

Component: Approach

Deficiency Description

Abutment #1 right approach gutter has small void underneath at bridge end

Remarks



Abutment #1 right approach gutter has small void underneath at bridge end

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	Yes
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	Yes
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks (Yes)

Deck each span has cs2 transverse and longitudinal cracks.



Typical longitudinal deck crack



Span #1 deck



Span #2 deck



Span #3 deck



Span #4 deck



Span #5 deck



Span #6 deck



Span #7 deck



Span #8 deck



Span #9 deck



Span #10 deck



Span #11 deck

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

A-57 - Girder End and Bearing Painting Needed (Yes)

Multiple girder end and bearings have moderate corrosion.



Bent #2 girder #6 bearings are corroded and span #1 and 2 girder #6 bottom flange outside has scaly rust



Corrosion on bearings and girder ends



Corrosion on girder ends and bearings at bent #7

A-58 - Cap Cleaning/Flushing Needed (Yes)

Cap have dirt and debris on them.



Bent #7 dirt and debris on caps

A-59 - Joint Repair Needed (Yes)

Compression joint seals are weathered and cracked.



Abutment #1 joint.



Bent #2 joint



Bent #4 joint



Bent #5 joint



Bent #6 joint



Bent #9 joint



Bent #10 joint



Bent #11 joint



Abutment #2 joint

A-60 - Full Girder Painting Needed (Yes)

Steel girders have minor light rust spots showing through paint on web and bottom flange full length.



Typical girder paint condition

A-61 - Polymer Overlay Advised (Yes)

Deck each span has cs2 transverse and longitudinal cracks.



Span #5 deck left lane has one foot spall near mid span



Typical longitudinal deck crack

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



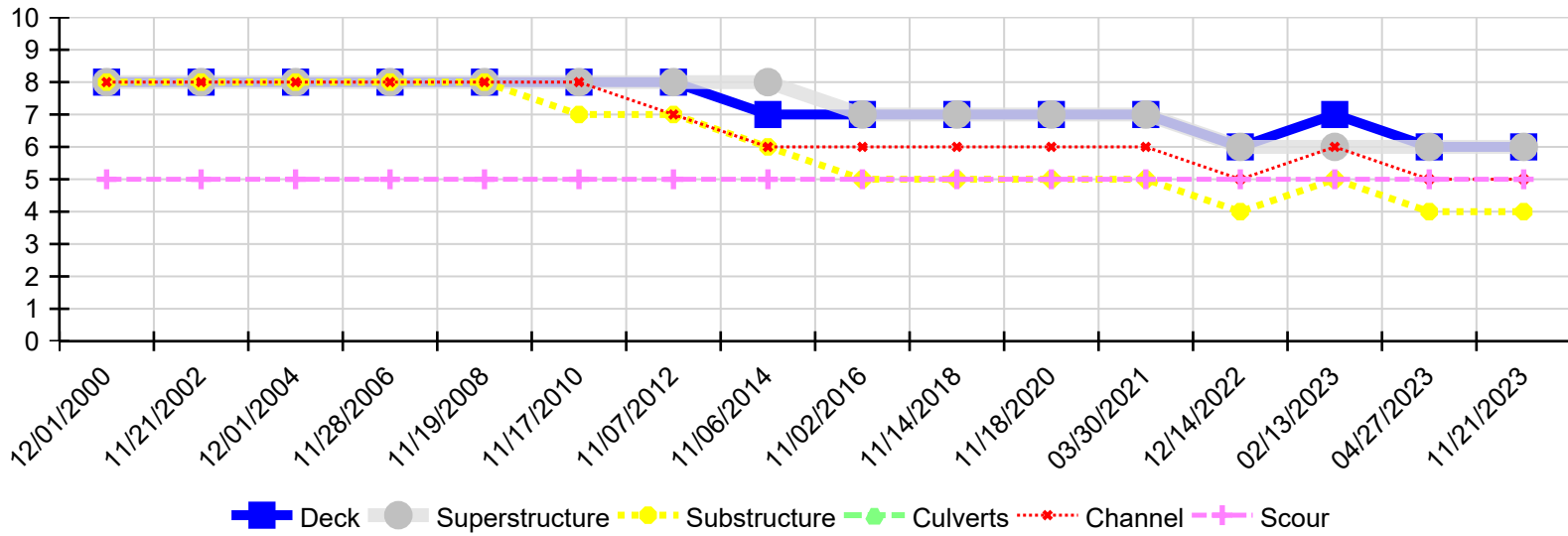
Asset #02534(Other Special Recurring)

Us-79/Sec16/L11.51 over Alligator Bayou

Location: .7 Mi South Of Brickeys

Team Lead: Drew Melton Inspection Date: 11/21/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/21/2023	6	6	4	N	5	5
04/27/2023	6	6	4	N	5	5
02/13/2023	6	6	4	N	5	5
02/13/2023	7	6	5	N	6	5
12/14/2022	6	6	4	N	5	5
03/30/2021	7	7	5	N	6	5
11/18/2020	7	7	5	N	6	5
11/14/2018	7	7	5	N	6	5
11/02/2016	7	7	5	N	6	5
11/06/2014	7	8	6	N	6	5
11/07/2012	8	8	7	N	7	5
11/17/2010	8	8	7	N	8	5
11/19/2008	8	8	8	N	8	5
11/28/2006	8	8	8	N	8	5
12/01/2004	8	8	8	N	8	5
11/21/2002	8	8	8	N	8	5
12/01/2000	8	8	8	N	8	5