



Latitude:36.16539, Longitude:-90.82033

Route:34 Section:02 Log:1.94

Arnold Road ID:61x34x2xA, Arnold Log mile:1.933

District 10, 121 - Randolph County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

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

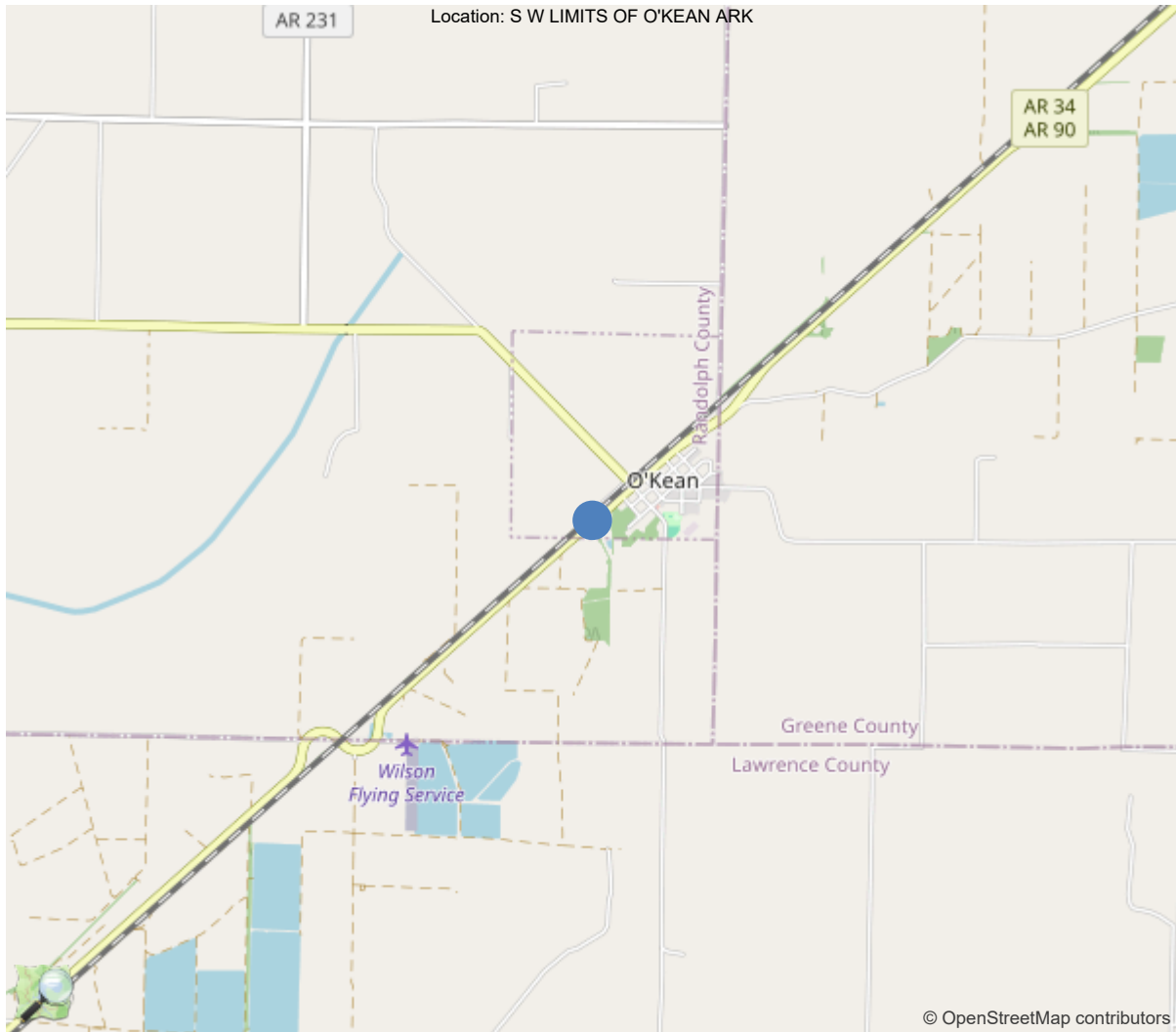
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	48		
Code 5 (40 Tons)	59		

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



36.16539, -90.82033



Asset #06531(Routine, Underwater type 2)
SH 34-02- LM 1.94 over BEAVER DAM DITCH
Location: S W LIMITS OF O'KEAN ARK
Team Lead: Richard Jones Inspection Date: 04/13/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06531
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	121 - Randolph County
(4) Place Code	51500
(6) Features Intersected	BEAVER DAM DITCH
(7) Facility Carried	SH 34-02- LM 1.94
(9) Location	S W LIMITS OF O'KEAN ARK
(11) Mile Point	1.94 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.16539
(17) Longitude	-90.82033
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(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	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1995
(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	780
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	30 ft
(52) Deck Width Out to Out	32.8 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	30 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	5 - None present but re-evalua
(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	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(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
(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	7
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	6
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(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	0
(114) Future ADT	1264
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/13/2023		
(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 #06531 (Routine, Underwater type 2)
SH 34-02- LM 1.94 over BEAVER DAM DITCH
Location: S W LIMITS OF O'KEAN ARK
Team Lead: Richard Jones Inspection Date: 04/13/2023

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Top flange has a few minor cracks, and wide spread abrasion with a few popouts.

59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)

Concrete Tee beams are in good condition.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Sub is in overall good condition, but pile encasements are undermined, partially exposing piles 4 and 5 at bent 2.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)
Steep bank cuts/lateral scour



Asset #06531(Routine, Underwater type 2)

SH 34-02- LM 1.94 over BEAVER DAM DITCH

Location: S W LIMITS OF O'KEAN ARK

Team Lead: Richard Jones Inspection Date: 04/13/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2952	1682	1202	68	0
1080	Delamination/Spall/Patched Area	SF	9	0	9	0	0
1090	Exposed Rebar	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	9	0	1	8	0
1130	Cracking (RC and Other)	SF	480	0	450	30	0
1190	Abrasion/Wear (PSC/RC)	SF	769	0	739	30	0
(16) Top flange has a few minor cracks. Top flange has wide spread abrasion with a few small pop outs. Soffit has a few minor cracks, some with light efflorescence. Span 1 bay 1 near bent 2 has a small spall with exposed rebar. Overhangs have a few small delaminated areas or spalls with rebar exposed.							
110	Reinforced Concrete Open Girder/Beam	LF	360	360	0	0	0
(110) Concrete Tee beams are in good condition.							
215	Reinforced Concrete Abutment	LF	100	98	2	0	0
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
(215) Few minor cracks with efflorescence.							
225	Steel Pile	EA	10	4	6	0	0
1000	Corrosion	EA	2	0	2	0	0
6000	Scour	EA	4	0	4	0	0
515	Steel Protective Coating	SF	314	310	0	0	4
3440	Effectiveness (Steel Protective Coatings)	EA	4	0	0	0	4
(225) Bent 2 pile encasements are undermined at piles 4 and 5, partially exposing steel shells. Exposed portion has flaking rust.							
234	Reinforced Concrete Pier Cap	LF	67	61	4	2	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
(234) Concrete caps have a few minor cracks, some with efflorescence. Bent 3 cap has a minor spall on ahead side at connection to pile 1.							
301	Pourable Joint Seal	LF	131	44	87	0	0
2320	Seal Adhesion	LF	87	0	87	0	0
(301) Seals are beginning to lose adhesion.							
321	Reinforced Concrete Approach Slab	SF	1752	1540	106	106	0
1130	Cracking (RC and Other)	SF	52	0	24	28	0



Asset #06531(Routine, Underwater type 2)
SH 34-02- LM 1.94 over BEAVER DAM DITCH
Location: S W LIMITS OF O'KEAN ARK
Team Lead: Richard Jones Inspection Date: 04/13/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1190	Abrasion/Wear (PSC/RC) (321) Approach slabs have a few unsealed cracks. Approach slab at bent 4 end has areas of moderate abrasion.	SF	160	0	82	78	0
331	Reinforced Concrete Bridge Railing	LF	180	177	3	0	0
1130	Cracking (RC and Other) (331) Rails have a few minor cracks.	LF	6	3	3	0	0



Side



Roadway



Deck



Soffit



Asset #06531(Routine, Underwater type 2)
SH 34-02- LM 1.94 over BEAVER DAM DITCH
Location: S W LIMITS OF O'KEAN ARK
Team Lead: Richard Jones Inspection Date: 04/13/2023



Deck

Maintenance Needs

Date Reported: 04/01/2019

Priority: C - Important

Type of Work: Substructure Repair

Status: Open

Component: Substructure

Deficiency Description

Bent 2 pile encasements are undermined at piles 4 and 5, partially exposing steel shells. Exposed portion has flaking rust.

Remarks



2023 - Bent 2



2019 - Bent 2 pile 5

Maintenance Needs

Date Reported: 04/01/2019

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Approach slabs have a few unsealed cracks.
Approach slab at bent 4 end has areas of moderate abrasion.

Remarks



2023 - Bent 4 approach slab



Bent 4 approach



Asset #06531(Routine, Underwater type 2)

SH 34-02- LM 1.94 over BEAVER DAM DITCH

Location: S W LIMITS OF O'KEAN ARK

Team Lead: Richard Jones Inspection Date: 04/13/2023

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	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
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)

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised (Yes)



Deck

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage



Asset #06531(Routine, Underwater type 2)
SH 34-02- LM 1.94 over BEAVER DAM DITCH
Location: S W LIMITS OF O'KEAN ARK
Team Lead: Richard Jones Inspection Date: 04/13/2023

A-64 - Vegetation Removal Requested



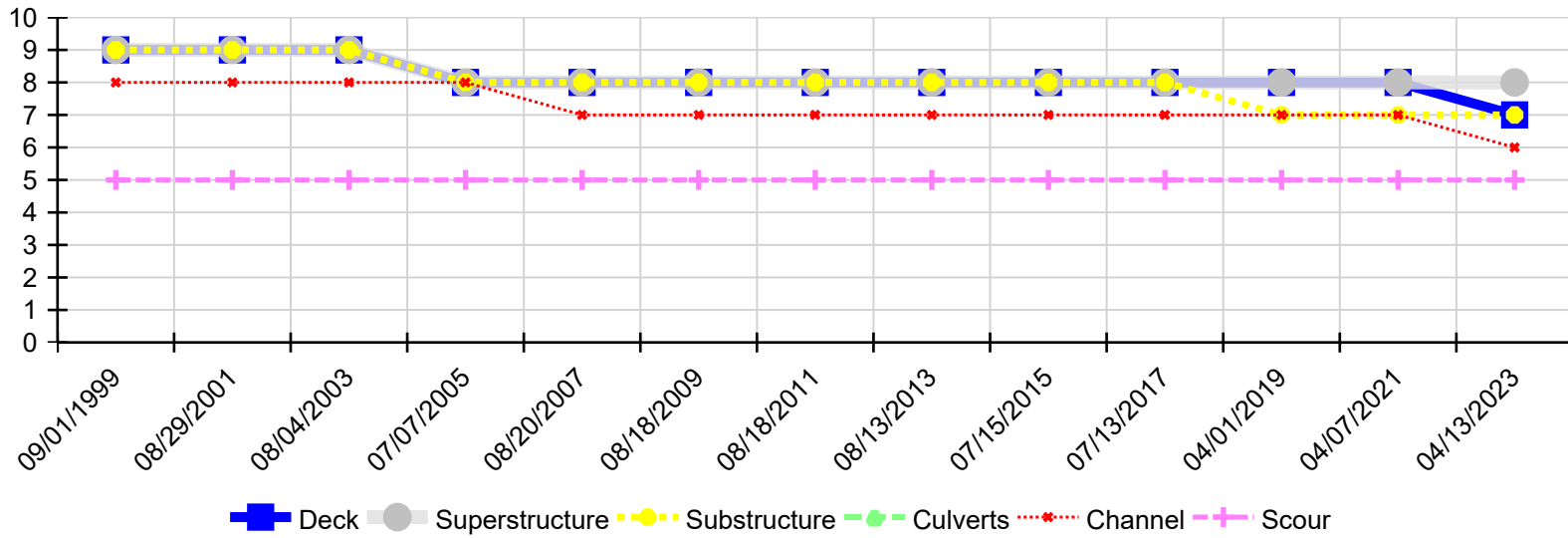
Asset #06531 (Routine, Underwater type 2)

SH 34-02- LM 1.94 over BEAVER DAM DITCH

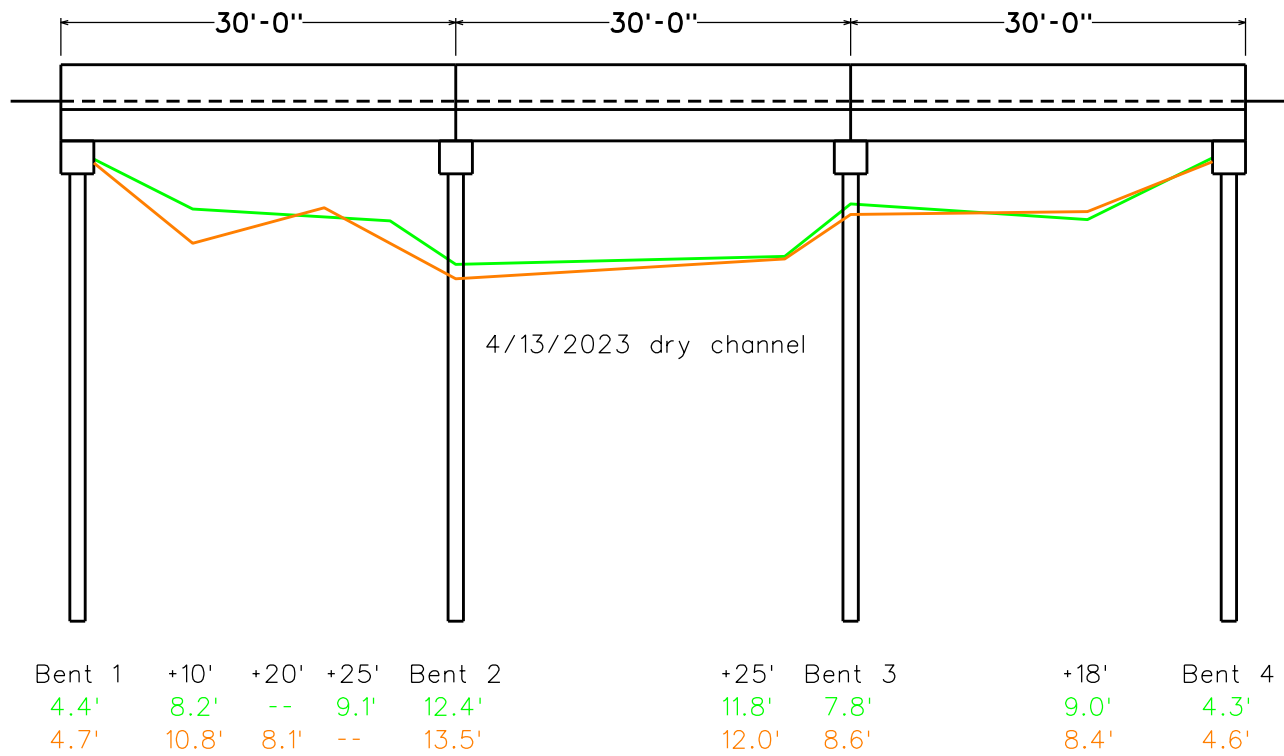
Location: S W LIMITS OF O'KEAN ARK

Team Lead: Richard Jones Inspection Date: 04/13/2023

Condition History



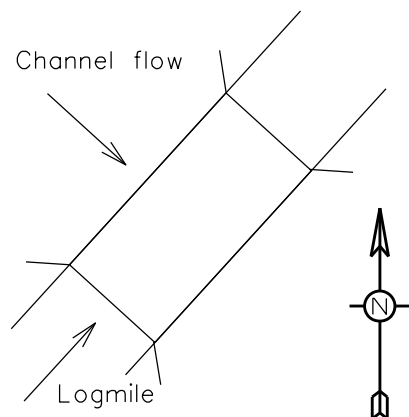
Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/13/2023	7	8	7	N	6	5
04/07/2021	8	8	7	N	7	5
04/01/2019	8	8	7	N	7	5
07/13/2017	8	8	8	N	7	5
07/15/2015	8	8	8	N	7	5
08/13/2013	8	8	8	N	7	5
08/18/2011	8	8	8	N	7	5
08/18/2009	8	8	8	N	7	5
08/20/2007	8	8	8	N	7	5
07/07/2005	8	8	8	N	8	5
08/04/2003	9	9	9	N	8	5
08/29/2001	9	9	9	N	8	5
09/01/1999	9	9	9	N	8	5



Channel profiled from top of deck on Rt side (downstream side)

Green soundings taken on 4/1/2019

Orange soundings taken on 4/13/2023



*Not to Scale

Bridge No. 06531	Dist. 10	Co. Randolph - 61
Logmile 1.94	Rt. 00034	Sect/Zone - 02
Date Drawn 4/1/19	Insp. / Assist. RRJ / BDS	