



Latitude:35.90971, Longitude:-90.86322

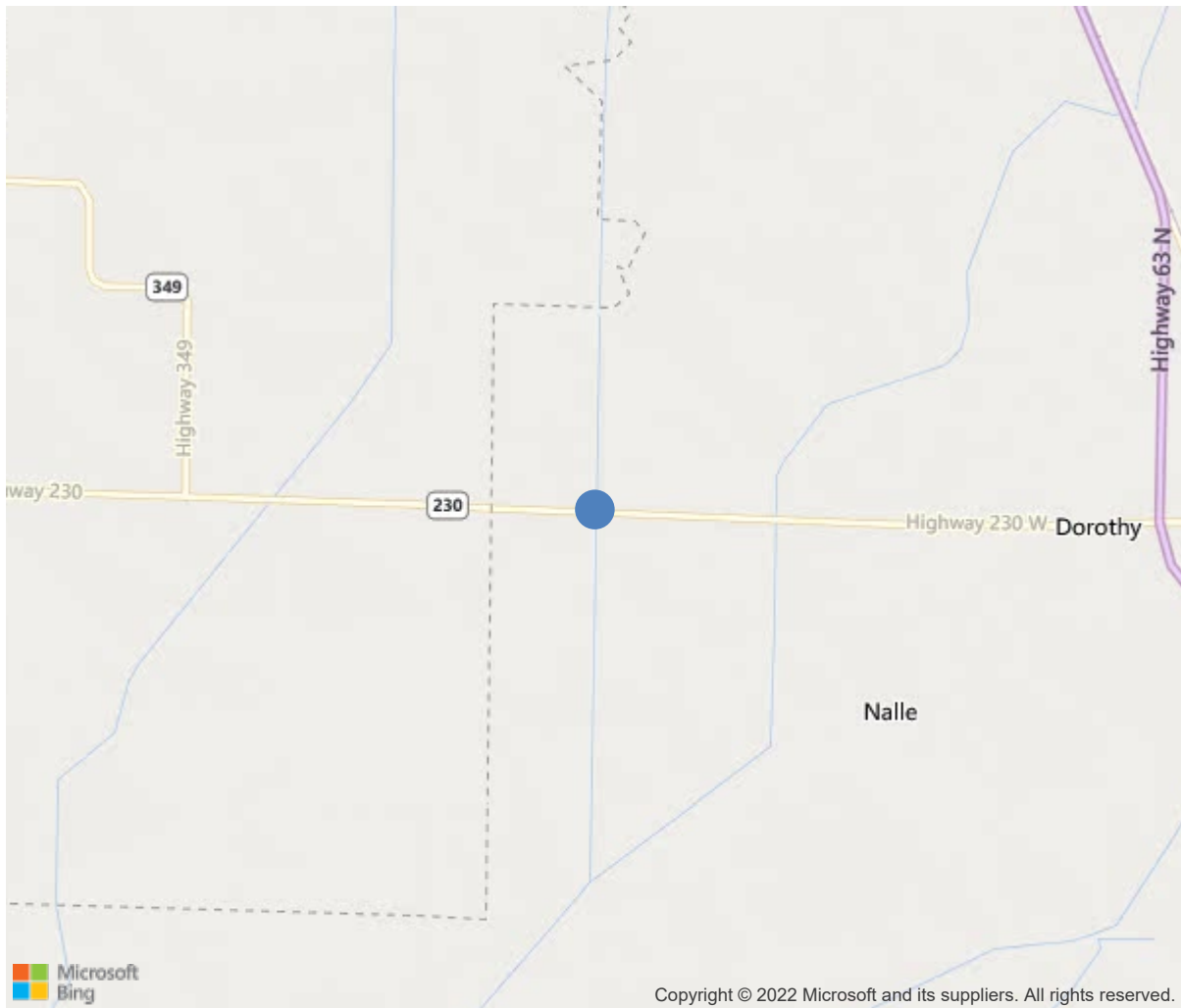
Route:230 Section:07 Log:0.51

Arnold Road ID:16x230x7xA, Arnold Log mile:0.51

District 10, Craighead County

Owner: 1-State Highway Agency

4.5 MI E JCT SH 91



35.90971, -90.86322

Inspection Direction : W to E



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams Inspection Date: September 13, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M3187
(5) Inventory Route	230
(2) Highway Agency District	10
(3) County Code	31-Craighead County, Arkansas
(4) Place Code	0
(6) Features Intersected	CACHE RIVER
(7) Facility Carried	SH 230-07- LM 0.51
(9) Location	4.5 MI E JCT SH 91
(11) Mile Point	0.51 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.90971
(17) Longitude	-90.86322
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	310
Material	3-Steel
Type	10-Truss - Thru
(44) Approach Structure Type	72
Material	7-Wood or timber
Type	2-Stringer/Multi-beam or girder
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	4
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1968
(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	740
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	101 ft
(49) Structure Length	170 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24.3 ft
(52) Deck Width Out to Out	25.2 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.6 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	0
(26) Functional Class	7-Rural Major Collector
(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	2-Bridge is eligible for the NRHP.
CONDITION	
(58) Deck	5
(59) Superstructure	4
(60) Substructure	4
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0-Other or Unknown
(63) Operating Rating Method	2
(64) Operating Rating	
Type	2-Allowable Stress(AS)
Rating	3
(65) Inventory Rating Method	2-Allowable Stress(AS)
(66) Inventory Rating	
Type	1
Rating	0
(70) Bridge Posting	0-> 39.9% below
(41) Structure Open/Posted/Closed	P-Posted for load (may include o
APPRAISAL	
(67) Structural Evaluation	3
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	5
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(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	0
(114) Future ADT	953
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			09/2022
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	Yes	24	09/2022
B: Underwater Inspection	No	0	
C: Other Special Inspection	No	0	
* 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 #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams, **Inspection Date:** September 13, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4267	4023	24	220	0
1090	Exposed Rebar	SF	42	0	24	18	0
1120	Efflorescence/Rust Staining	SF	202	0	0	202	0
510	Wearing Surfaces	SF	4114	3182	765	167	0
3210	Delam/Spall/Patched Area/Pothole	SF	812	0	765	47	0
3220	Crack (Wearing Surface)	SF	120	0	0	120	0
111	Timber Open Girder/Beam	LF	1020	864	126	21	9
1140	Decay/Section Loss	LF	48	0	18	21	9
1150	Check/Shake	LF	102	0	102	0	0
1170	Split/Delamination (Timber)	LF	6	0	6	0	0
120	Steel Truss	LF	200	0	200	0	0
1000	Corrosion	LF	187	0	187	0	0
1020	Connection	LF	3	0	3	0	0
1900	Distortion	LF	2	0	2	0	0
7000	Damage	LF	8	0	8	0	0
515	Steel Protective Coating	SF	8123	0	0	8123	0
3440	Effectiveness (Steel Protective Coatings)	SF	8123	0	0	8123	0
152	Steel Floor Beam	LF	288	0	288	0	0
1000	Corrosion	LF	288	0	288	0	0
162	Steel Gusset Plate	EA	38	0	38	0	0
1000	Corrosion	EA	31	0	31	0	0
1900	Distortion	EA	7	0	7	0	0
216	Timber Abutment	LF	48	0	44	0	4
1140	Decay/Section Loss	LF	4	0	0	0	4
1150	Check/Shake	LF	44	0	44	0	0
228	Timber Pile	EA	54	2	33	10	9
1140	Decay/Section Loss	EA	24	0	12	3	9
1150	Check/Shake	EA	27	0	20	7	0
1170	Split/Delamination (Timber)	EA	1	0	1	0	0
234	Reinforced Concrete Pier Cap	LF	64	64	0	0	0



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SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams, **Inspection Date:** September 13, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
235	Timber Pier Cap	LF	48	0	44	0	4
1140	Decay/Section Loss	LF	4	0	0	0	4
1150	Check/Shake	LF	44	0	44	0	0
304	Open Expansion Joint	LF	48	24	0	24	0
7000	Damage	LF	24	0	0	24	0
311	Movable Bearing	EA	2	0	0	2	0
1000	Corrosion	EA	2	0	0	2	0
313	Fixed Bearing	EA	2	0	0	2	0
1000	Corrosion	EA	2	0	0	2	0
330	Metal Bridge Railing	LF	336	30	306	0	0
1000	Corrosion	LF	306	0	306	0	0
515	Steel Protective Coating	SF	1075	95	360	620	0
3440	Effectiveness (Steel Protective Coatings)	SF	980	0	360	620	0



West end approach rail on right 9-14-22



Bent 6 girder Typ.



Bent 6



Span 4



Bent 5



Span 3



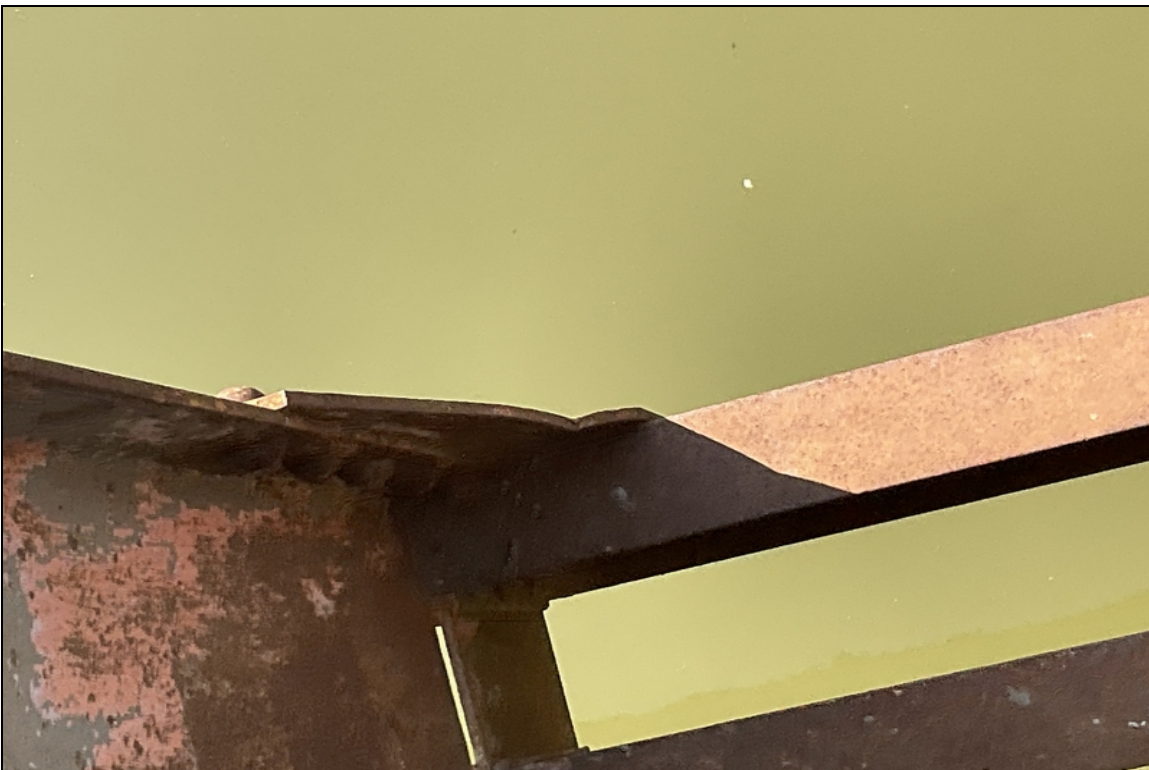
Bent 3 pile 1 to 5 (right to left)



Truss bent 4



Truss bent 3



L 6 exterior gusset right



U 5 vertical right



U 4 to L 5 diagonal right



L 4 bolt loose vertical connection right



L 4 vertical right



U 1 top chord right



L 1 right exterior gusset right



U 9 interior gusset left



L 8 dirt debris on all lower chords left



L 6 to U 7 diagonal left



U 7 vertical left



U 5 diagonal to L 6 left



U 2 left interior gusset



L 0 right gusset plate



L 0 left interior gusset plate



End



Overall Deck



Beginning



East 9-13-22



Elevation

Maintenance Needs

Date Reported: 08/22/2011
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Assigned
Inspection Direction W to E
Component: Substructure

Deficiency Description

Bent 2 pile 1 is decayed with approx. 40% section loss near ground line.
Bent 4 pile 10A has deep checks and core decay. Pile has some possible swelling.
Bent 6 pile 2 is decayed and partially hollow.

Remarks

replacement project in the works, but pushed back, will continue to monitor KAW 9/3/19



Bent 6 pile 2



Bent 4 pile 10a



Bent 2 pile 1



Bent 6 pile 2



Bent 4 pile 10a



Bent 2 pile 1



Bent 2 pile 1



Bent 4 pile 10a



Bent 6 pile 2



Bent 2 pile 1



Bent 4 pile 10,11,12a foreground



Bent 6 pile 2 on right



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Date Reported: 08/22/2011
Priority: D- Routine
Type of Work: None
Status: Repair Documented
Inspection Direction W to E
Component:

Deficiency Description

Drift and debris lodged in lower chord of truss unit.

Remarks

Lawrence county crew cleaned out drift and washed off lower chord on 8/26/19
observed during inspection

Date Reported: 08/22/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor

Inspection Direction W to E

Component: Deck

Deficiency Description

Asphalt wearing surface has several transverse cracks, and a few spalled areas.

Gutter lines have several potholes and patched areas.

Road iron over bent 3 is loose and moving under traffic.

Wearing surface at spans 4 and 5 has several potholes and patched areas. Exposed portions of deck have a few shallow spalls and delaminated areas.

Remarks



Spans 4 and 5



East Approach deck



Bent 1



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022



Bent 3



Bent 4



East approach span

Date Reported: 08/22/2011
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: Deck

Deficiency Description

Soffit at approach spans have several transverse cracks with efflorescence, delaminated areas, and a few spalls with rebar exposed.

Remarks



Span 4 soffit

Date Reported: 08/22/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: Superstructure

Deficiency Description

Ends of timber girders over bents 1 and 6 have areas of moderate to advanced decay. Girders have several minor checks and corner splits. Several are crushing or beginning to crush over cap. Span 1 bent 1 girders 1 through 3 are decayed and hollow for 3ft. Girders 1 and 3 are crushing over cap up to 2in. Girder 2 is crushing over cap up to 1in. Span 1 bent 1 girder 6 is decayed and hollow on end. Bottom of girder is crushing over cap. Span 1 bent 1 girders 8, 11, and 13 are decayed and partially hollow on ends. Bottom of girders are beginning to crush over cap. Span 1 bent 1 girder 12 is decayed and hollow on bottom near cap. Span 1 bent 1 girders 14 and 15 are decayed and hollow on ends. Girder 14 is crushing up to 1in. over cap. Girder 15 is crushing up to 1.5in. over cap. Span 1 girder 9 has a 6ft. long corner split near $\frac{1}{4}$ point. Span 5 bent 6 girders 5 through 13 are decayed and partially hollow on ends over cap. Bottom of girders are beginning to crush over cap.

Remarks



Span 5 bent 6 girder 5



Span 5 bent 6 girder 13



Span 5 bent 6 girder 10



Span 5 bent 6 girder 9



Span 5 bent 6 girder 7



Span 5 bent 6 girder 5



2019 - Span 5 bent 6 girder 9



2019 - Span 5 bent 6 girder 6



2019 - Span 5 bent 6 girder 8



2019 - Span 5 bent 6 girder 5



Span 5 bent 6 girder 10



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Date Reported: 08/22/2011

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Inspection Direction W to E

Component:

Deficiency Description

Embankment has minor scour near bents 3 and 4.

Remarks



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Date Reported: 08/22/2011
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction W to E
Component: 120 - Steel Truss

Deficiency Description

Span 3 trusses have surface corrosion throughout.

Remarks

Date Reported: 08/20/2013

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Inspection Direction W to E

Component: Deck

Deficiency Description

Soffit at truss span has a few spalls with exposed rebar along edges of deck and near drain openings. Exposed rebar has up to 1/4" section loss.

Remarks



Span 3 by bent 3



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Date Reported: 08/20/2013

Priority: D- Routine

Type of Work: None

Status: Monitor

Inspection Direction W to E

Component:

Deficiency Description

Ends of several floor beams have areas of initial section loss at connection to lower lateral gusset plate.

Remarks

Date Reported: 08/20/2013
Priority: D- Routine
Type of Work: None
Status: Monitor
Inspection Direction W to E
Component: 120 - Steel Truss

Deficiency Description

A few field splice plates have flame cut gouges from removing rivets when truss was disassembled.

Several lower lateral gusset plates are missing 1 bolt/rivet at bottom connection to lower chord of truss. (L2, L4, L6, and L8 on Lt and Rt trusses)

L2 Rt – vertical has 1 loose bolt at connection to floor beam on inside of lower chord.

L4 Rt – vertical has 1 loose bolt at connection to floor beam.

L6 Rt – Lower lateral has 1 loose bolt at connection to gusset on ahead side.

L6 Lt – lower lateral gusset plate has pack rust with up to 1/4" distortion between gusset and bottom flange of floor beam.

Lower lateral gusset is missing 2 bolts.

L8 Lt – lower lateral gusset has section loss around 2 bolt heads on bottom side.

Remarks



L4 Rt back side splice



Rt L4 vertical loose bolt



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Date Reported: 08/20/2013

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Inspection Direction W to E

Component:

Deficiency Description

Log mile sign at bent 1 end is incorrect. Shows at 4.5 log, should be 0.51. Other log sign is missing.

Remarks



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Date Reported: 07/14/2015

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Inspection Direction W to E

Component: Substructure

Deficiency Description

Timber caps have checks, areas of decay, and a few minor corner splits.
Timber piles have up to 1" of outside decay with moderate checks typical.

Remarks

Date Reported: 07/14/2015

Priority: C - Important

Type of Work: Repair

Status: Monitor

Inspection Direction W to E

Component: Substructure

Deficiency Description

Bent 1 pile 1 is decayed and partially hollow.
Bent 1 piles 5 and 6 have 1 inch outside decay.
Bent 2 pile 2 has up to 1.5" of outside decay.
Bent 2 pile 3 is out of alignment. Approx. 40% of pile is out from under cap.
Bent 3 pile 2A is decayed and partially hollow.
Bent 3 pile 3 (battered) is decayed and partially hollow.
Bent 3 pile 4A decayed and partially hollow.
Bent 3 pile 6 has outside decay. (Not visible due to siltation)
Bent 3 pile 7 has outside decay and is partially hollow.(Not visible due to siltation).
Bent 3 pile 9 is decayed & hollow.
Bent 4 pile 1A top 3ft. is decayed & hollow.
Bent 4 pile 1B has 2in. of outside decay.
Bent 4 pile 8 is decayed and partially hollow.
Bent 4 pile 12A has 1" deep outside splits.
Bent 4 pile 12B is decayed with deep checks.
Bent 6 pile 5 has top core decay.

Remarks



Bent 2 pile 3



Bent 1 pile 1



Bent 3 piles typical



Bent 2 pile 3



Bent 3 pile 2A



Bent 3 pile 3 battered



Bent 3 pile 4



Bent 3 pile 9a



Bent 4 pile 12a



Bent 6 pile 5



Bent 1 pile 1



Bent 2 pile 3



Bent 3 pile 9



Bent 4 pile 1 b



Bent 4 pile 8



Bent 4 pile 12b

Date Reported: 07/14/2015
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction W to E
Component: 120 - Steel Truss

Deficiency Description

L6 Lt – lower chord field splice ahead of L6 has pack rust with 5/8" distortion on inside corner. Corner has 1 loose bolt.

Remarks



Field splice ahead of L6 on Lt

Date Reported: 07/14/2015
Priority: D- Routine
Type of Work: None
Status: Monitor
Inspection Direction W to E
Component: 120 - Steel Truss

Deficiency Description

Gusset plates have a few minor bowed areas. Top chord plates have minor bows from collision damage. Lower chord plates have minor bows possibly from when truss was disassembled. Several truss verticals have had collision damage in the past. Several verticals have minor bowed areas on flanges.

Remarks



L1 Rt



U4 Rt vertical



Bridge #M3187 (Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams Inspection Date: September 13, 2022

Date Reported: 06/27/2016
Priority: A - Safety deficiency; requires prompt action
Type of Work: Repair
Status: Assigned
Inspection Direction W to E
Component: Superstructure

Deficiency Description

Span 1 bent 1 girders 1 through 3 are decayed and hollow for 3'. Girders 1 and 3 are crushing over cap up to 2". Girder 2 is crushing over cap up to 1".

Span 1 bent 1 girder 6 is decayed and hollow on end. Bottom of girder is crushing over cap.

Span 1 bent 1 girders 8, 11, and 13 are decayed and partially hollow on ends. Bottom of girders are beginning to crush over cap.

Span 1 bent 1 girder 12 is decayed and hollow on bottom near cap.

Span 1 bent 1 girders 14 and 15 are decayed and hollow on ends. Girder 14 is crushing up to 1" over cap. Girder 15 is crushing up to 1.5" over cap.

Remarks

11-3-20 Reviewed by Michael Hill

10/6/20 Reviewed by ADN. No additional information.

9/5/2020 reviewed by Stewart Linz, no new information available

7/2/2020 Reviewed by Michael Hill

5/26/2020 Reviewed by ADN

4/13/2020 Reviewed by Stewart Linz

2/10/20 Reviewed by Michael Hill

1/15/20 Reviewed by Michael Hill

Bridge scheduled for replacement will monitor for problems - bridge crew heavily obligated at this time KAW 9/3/19

10/1/19 - Reviewed by Michael Hill - Rating say deficiencies are considered in rating.

11/4/19 - Reviewed by Michael Hill

12/6/19 - Reviewed by Michael Hill

12/16/2019 Deficiency is considered in the rating of this structure. HBM chooses to keep it a CF. 12/17/2019 dlw

12/28/2020 Reviewed by Stewart Linz, Concur with leaving as CF

1/28/21 Reviewed by ADN, no new information.

3-3-21 Reviewed by MAH

4/12/2021 Reviewed by CSL no new information available

5/24/21 Reviewed by ADN. Load Rating lowered posting to 3-3-3. Signs are up. Due to deficiencies leaving it a CF.

6/22/21 Reviewed by MAH - No new information

7/19/2021 Reviewed by CSL; No new information

8/4/21 No additional information - ADN

9/27/2021 Reviewed by CSL: Latest inspection indicates no change in conditions. Review of photos appears to show further progression of beam end crushing at Girders 7, 8, 14 & 15.

10/19/21 Reviewed by MAH, No change from last report.

10/19/2021 Current conditions included in the latest load rating. dlw

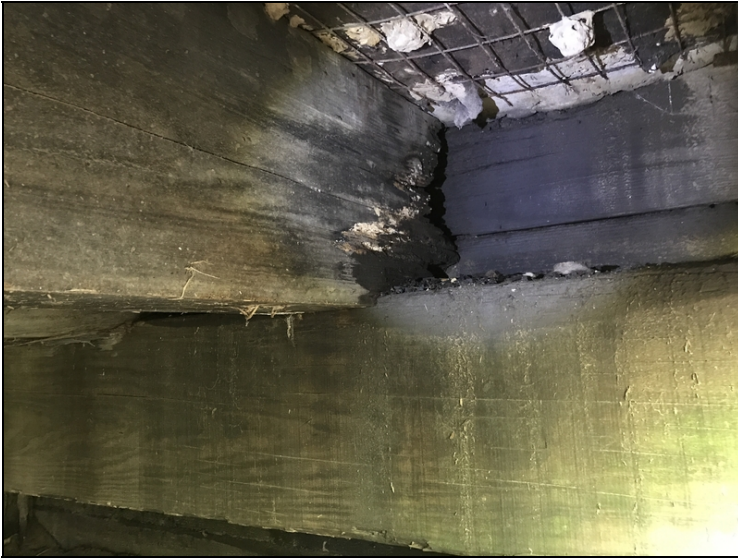
12/23/21 No additional information - ADN



2019 - Span 1 bent 1 girder 1



2019 - Span 1 girder 13



2019 - Span 1 bent 1 girder 2



2019 - Span 1 girder 15



2019 - Span 1 bent 1 girder 1



2019 - Span 1 bent 1 girder 6



2019 - Span 1 bent 1 girder 7



2019 - Span 1 bent 1 girder 7



2019 - Span 1 bent 1 girder 8



2019 - Span 1 bent 1 girder 3



2019 - Span 1 girder 14



Span 1 bent 1 girder 8



2019 - Span 1 girder 11



Span 1 bent 1 girder 1



Span 1 bent 1 girder 1



Span 1 bent 1 girder 2



Span 1 bent 1 girder 3



Span 1 bent 1 girder 6



Span 1 bent 1 girder 7



Span 1 bent 1 girder 8



Span 1 bent 1 girder 11



Span 1 bent 1 girder 12 and 13



Span 1 bent 1 girder 14



Span 1 bent 1 girder 15



Span 1 bent 1 girder 1



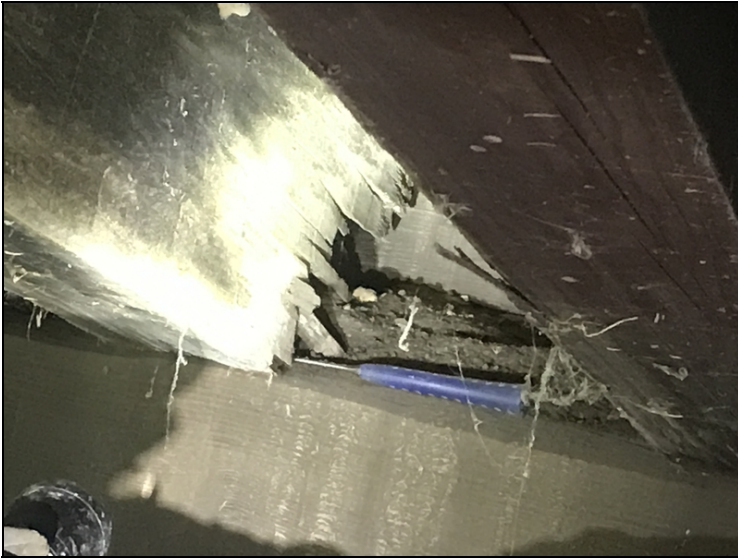
Span 1 girder 3 bent 1



Span 1 girder 2 bent 1



Span 1 girder 6 at bent 1



Span 1 bent 1 girder 7



Span 1 bent 1 girder 8



Span 1 bent 1 girder 11



Span 1 bent 1 girder 12



Span 1 bent 1 girder 13



Span 1 bent 1 girder 14



Span 1 bent 1 girder 15



Bent 1 girder 7-12 (numbered right to left)

Date Reported: 07/27/2018
Priority: A - Safety deficiency; requires prompt action
Type of Work: Repair
Status: Assigned
Inspection Direction W to E
Component: Substructure

Deficiency Description

Bent 3 pile 5 is decayed and hollow.
Bent 4 pile 9A is decayed and hollow. 3" core and partial shell remains.
Bent 6 pile 1 has outside decay and is partially hollow. Approximately 2" - 3" shell remains.

Remarks

This bridge scheduled to be replaced by Job 100869 next year. Will continue to monitor for problems. KAW 8/8/18

Bridge replacement project moved back - will monitor, as other priorities have bridge crew heavily obligated. KAW 9/3/19



2019 - Bent 6 pile 1



Bent 4 9a



Bent 6 pile 4



Bent 6 pile 1



Bent 4 pile 9a



Bent 3 pile 5



Bent 1 pile 2



Bent 3 pile 5



Bent 1 pile 2



Bent 4 pile 9a



Bent 6 pile 4



Bent 6 pile 1



Bent 3 pile 5



Bent 4 pile 9a



Bent 6 pile 1 on left

Date Reported: 09/23/2021
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: Substructure

Deficiency Description

Bent 1 timber cap is moving under traffic.
4ft. of bottom of bent 1 cap between piles 2 & 3 is decayed with up to 4 in. section loss bottom of cap.

Remarks



Bent 1 cap



Bent 1 cap between pile 2&3

Date Reported: 09/23/2021
Priority: C - Important
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: Deck

Deficiency Description

Bent 6 approach roadway has a 1 ft. diameter hole in roadway/end of deck, asphalt is built up under bridge.

Remarks



East approach center line



Bent 6

Date Reported: 09/14/2022
Priority: CF - Critical Finding
Type of Work: Replace
Status: Open
Inspection Direction W to E
Component: Superstructure

Deficiency Description

Span 1 bent 1 girder 7 is hollow for 4ft. End of girder is crushed over cap, no support.

Remarks



Span 1 bent 1 girder 7 9-14-22

Date Reported: 09/14/2022
Priority: CF - Critical Finding
Type of Work: Replace
Status: Open
Inspection Direction W to E
Component: Substructure

Deficiency Description

Bent 1 pile 2 has near complete section loss. No structural support.
Bent 6 pile 4 is completely hollow with some crushing. Pile has little to no structural value.

Remarks



Bent 1 pile 2 9-14-22



Bent 6 pile 4 9-14-22



2021



2021



Bridge #M3187 (Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Inspection Comments

Deck Notes

Flareboard at Northwest corner missing

Southwest approach rail has some collision damage.

Approach roadway at both bridge ends have some settlement. Edge of deck over bent 6 is cracked, spalled, allowing debris to cover ends of girders/cap.

Deck has a open transverse crack across deck & thru both curbs over bent 2. Deck was poured continually spans 1 & 2.

Bent 6 approach roadway has a 1 ft. diameter hole in roadway/end of deck, asphalt is built up under bridge. Roadway/deck continues to be repaired.

Log mile sign at bent 1 end is incorrect. Shows at 4.5 log, should be 0.51. Other log sign is missing.

Bridge rails have surface rust throughout with a few areas of section loss at joints. Rails have several areas of minor collision damage. Timber posts have moderate checks and decay with a few broken posts.

Asphalt wearing surface has several transverse cracks, and a few spalled areas.

Gutter lines have several potholes and patched areas.

Road iron over bent 3 has 20ft. loose and moving under traffic.

2ft. x 1ft. spall near centerline over bent 3 due to loose road iron.

Wearing surface at spans 4 and 5 has several potholes and patched areas.

Exposed portions of deck have a few shallow spalls and delaminated areas.

Spans 4 & 5 have large areas of poor patches.

Soffit at approach spans have several transverse cracks with efflorescence, delaminated areas, and a few spalls with exposed rebar.

Soffit at truss span has a few spalls with exposed rebar along edges of deck and near drain openings.

Truss span soffit left side near bent 3 has a 3ft. x 6ft. area of exposed rebar with section loss.

Superstructure Notes



Bridge #M3187(Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Span 3 trusses have surface corrosion.

Truss bearings have corrosion with areas of initial section loss. Bearings are covered with dirt & debris.

Upper chord top flange has pack rust with some distortion between plates over L0 and L10 connections on left and right sides. Gusset plates have a few minor bowed areas. Top chord plates have minor bows from collision damage. Lower chord plates have minor bows possibly from when truss was disassembled.

Several truss verticals have had collision damage in the past. Several verticals have minor bowed areas on flanges.

Ends of several floor beams have areas of initial section loss at connection to lower lateral gusset plate.

A few field splice plates have flame cut gouges from removing rivets when truss was disassembled and relocated.

Lower chord is packed with debris from high water.

Left truss U2 Left interior gusset has minor collision damage.

Left truss U5 to L6 & L6 to U7 Diagonals have minor collision damage.

L0 & L10 left & right truss have rust with section loss at connection to lower chord & inside gusset.

Several lower lateral gusset plates are missing 1 bolt/rivet at bottom connection to lower chord of truss. (L2, L4, L6, and L8 on left and right trusses)

L 1 right exterior gusset is bowed.

L2 right – vertical has 1 loose bolt at connection to floor beam on inside of lower chord.

L4 right – vertical has 1 loose bolt at connection to floor beam.

L6 right – Lower lateral has 1 loose bolt at connection to gusset on ahead side.

L6 left – lower lateral gusset plate has pack rust with up to ¼in. distortion between gusset and bottom flange of floor beam.

Lower lateral gusset is missing 2 bolts. Gusset plate has heavy debris build up.

L6 left – lower chord field splice ahead of L6 has pack rust with 5/8in. distortion on inside corner. Corner has 1 loose bolt.

L7 left - Bottom flange has minor bending near floorbeam

L8 left – lower lateral gusset has section loss around 4 bolt heads on bottom side. 1 rivet head is missing.

Ends of timber girders over bents 1 and 6 have areas of moderate to advanced decay. Girders have several minor checks and corner splits. Several are crushing or beginning to crush over cap.

Span 1 bent 1 girders 1 through 3 are decayed and hollow for 3ft. Girders 1 and 3 are crushing over cap up to 2in. Girder 2 is crushing over cap up to 1in. Girders are dropped away from deck.

Span 1 bent 1 girder 4 decayed on end over bent.

Span 1 bent 1 girder 6 is decayed and hollow on end. Bottom of girder is crushing over cap.

Span 1 bent 1 girder 7 is hollow for 4ft. End of girder is crushed over cap, no support. Girder has dropped down from deck.

Span 1 bent 1 girders 8, 11, and 13 are decayed and partially hollow on ends. Bottom of girders are beginning to crush & drop away from deck over cap.

Span 1 bent 1 girder 12 is decayed and hollow on bottom near cap.

Span 1 bent 1 girders 14 and 15 are decayed and hollow on ends. Girder 14 is crushing up to 1in. over cap. Girder 15 is crushing up to 1.5in. over cap. Girders are dropped away from deck.

Span 1 girder 9 has a 6ft. long corner split near ¼ point.

Span 5 bent 6 girders 5 through 13 are decayed and partially hollow on ends over cap. Bottom of girders are beginning to crush over cap & drop from deck.

Substructure Notes



Bridge #M3187 (Routine, Fracture Critical)

SH 230-07- LM 0.51 over CACHE RIVER

Location: 4.5 MI E JCT SH 91

Team Lead: James Adams **Inspection Date:** September 13, 2022

Timber caps have checks, areas of decay, and a few minor corner splits.

Bent 1 timber cap is moving under traffic.

4ft. of bottom of bent 1 cap between piles 2 & 3 is decayed with up to 4 in. section loss to bottom of cap.

Bent 3 concrete cap has a vertical crack near centerline.

Majority of timber piles have up to 1in. of outside decay with moderate checks & soft core.

Bent 1 cap has 2ft. on left end of decay with approx. 20% section loss.

Bent 1 pile 1 is decayed and partially hollow.

Bent 1 pile 2 has near complete section loss. No structural support.

Bent 1 piles 4 and 5 have 1in. outside decay.

Bent 2 pile 1 is decayed with approx. 40% section loss near ground line.

Bent 2 pile 2 has up to 1.5in. of outside decay.

Bent 2 pile 3 is decayed and partially hollow. Approximately 40% of pile is out from under cap.

Bent 3 cap has dirt build up on cap & partially covering span 3 bearings.

Bent 3 pile 2A is decayed and partially hollow.

Bent 3 pile 3 (battered) is decayed and partially hollow.

Bent 3 pile 4A decayed and partially hollow.

Bent 3 pile 5 is decayed and hollow.

Bent 3 pile 6 has outside decay and is partially hollow. Pile is no longer visible due to embankment silt.

Bent 3 pile 7 has outside decay and is partially hollow. Pile is no longer visible due to embankment silt.

Bent 3 pile 9 is decayed & hollow.

Bent 4 pile 1A-top 3ft. is decayed & partially hollow.

Bent 4 pile 1B- is decayed & hollow.

Bent 4 pile 8 is decayed and partially hollow.

Bent 4 pile 9A is decayed and hollow. 3in. core and partial shell remains.

Bent 4 pile 10A has deep checks and core decay.

Bent 4 pile 12A has 1in. deep checks, and a few splits in outer shell.

Bent 4 pile 12B is decayed with deep checks.

Bent 5 cap has a corner split on left end.

Bent 6 pile 1 has outside decay and is partially hollow. Approximately 2in. - 3in. shell remaining.

Bent 6 pile 2 is decayed and partially hollow.

Bent 6 pile 3 is not visible due to asphalt build up from deck repair above piling.

Bent 6 pile 4 is completely hollow with some crushing. Pile has little to no structural value.

Bent 6 pile 5 has top core decay.

Timber abutments have moderate checks and shakes.

Timber back walls have moderate checks and shakes.

Embankment has minor scour near bents 3 and 4.

Trees & brush on channel banks.