

Oklahoma Dept. of Transportation - Bridge Inspection Report

NBI No.: 13688	Structure No.: 6602 0368EX	Local ID: -1	Suff. Rating: 49.40	SD
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Bridge Description: <div style="border: 1px solid black; padding: 2px;">100ft.-140ft.-210ft.-160ft.-100ft. HI. TRUSS SPANS</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 1. State: Oklahoma 2. Division: Division 8 3. County: ROGERS 4. City: Unknown Admin Area: Unknown 5a. On/Under: Route On Structure 5b. Kind of Hwy: State Hwy 5c. Lvl of Svc: Mainline 5d. Route No.: 00066 5e. Dir. Sufx: N/A (NBI) </div> <div style="width: 48%;"> 7. Facility Carried: S.H. 66 NB 6. Feat. Intersect: BIRD CREEK & RD. UNDER 9. Location: 3.3 MI N JCT I-44 11. Mile Post: 3.679 mi 13. LRS Inv. / Sub Rte: -1 / -1 16. Latitude: 36° 12' 29.18" 17. Longitude: 095° 43' 29.72" 98. Border Brdg: Unknown (P) % Responsible: 0.00 99. Border Brdg #: Unknown </div> </div>	INSPECTION <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>Insp. Req.</th> <th>Insp. Done</th> <th>Freq.</th> <th>Insp. Date</th> <th>Next Insp.</th> </tr> </thead> <tbody> <tr> <td>NBI:</td> <td></td> <td>0</td> <td>24 months</td> <td>11/14/2019</td> <td>11/14/2021</td> </tr> <tr> <td>FC:</td> <td>Y</td> <td>0</td> <td>24 months</td> <td>11/14/2019</td> <td>11/14/2021</td> </tr> <tr> <td>UW:</td> <td>N</td> <td>0</td> <td></td> <td>NA</td> <td>NA</td> </tr> <tr> <td>OS:</td> <td>Y</td> <td>1</td> <td>24 months</td> <td>11/20/2020</td> <td>11/14/2022</td> </tr> </tbody> </table>	Type	Insp. Req.	Insp. Done	Freq.	Insp. Date	Next Insp.	NBI:		0	24 months	11/14/2019	11/14/2021	FC:	Y	0	24 months	11/14/2019	11/14/2021	UW:	N	0		NA	NA	OS:	Y	1	24 months	11/20/2020	11/14/2022
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STRUCTURE TYPE AND MATERIALS 43a/b. Main Span: Steel / Truss-Thru 44a/b. Appr. Span: Unknown / Unknown (P) 45. # of Main Spans: 6 46. # of Appr. Spans: 0 107. Deck Type: Concrete-Cast-in-Place 108a. Wearing Surface: Monolithic Concrete 108b. Membrane: Unknown 108c. Deck protection: Unknown	CLASSIFICATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>12. Base Hwy Net.: Not on Base Network</td> <td>101. Parallel Str.: Right of bridge</td> </tr> <tr> <td>20. Toll Facility: On free road</td> <td>102. Traffic Dir.: 1-way traffic</td> </tr> <tr> <td>21. Custodian: State</td> <td>103. Temp. Str.: Not Applicable (P)</td> </tr> <tr> <td>22. Owner: State</td> <td>104. Hwy System: On the NHS</td> </tr> <tr> <td>26. Function Class: 17 Urban Collector</td> <td>105. Fed Land Hwy: N/A (NBI)</td> </tr> <tr> <td>37. Historical Sig.: Br eligible for NRHP</td> <td>110. Defense Hwy: Not a STRAHNET hwy</td> </tr> <tr> <td>100. Def. Hwy: Not a STRAHNET hwy</td> <td>112. NBIS Length: Long Enough</td> </tr> </tbody> </table>	12. Base Hwy Net.: Not on Base Network	101. Parallel Str.: Right of bridge	20. Toll Facility: On free road	102. Traffic Dir.: 1-way traffic	21. Custodian: State	103. Temp. Str.: Not Applicable (P)	22. Owner: State	104. Hwy System: On the NHS	26. Function Class: 17 Urban Collector	105. Fed Land Hwy: N/A (NBI)	37. Historical Sig.: Br eligible for NRHP	110. Defense Hwy: Not a STRAHNET hwy	100. Def. Hwy: Not a STRAHNET hwy	112. NBIS Length: Long Enough
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AGE AND SERVICE 19. Detour Length: 0.1 mi 27. Year Built: 1956 28a/b. Lanes on/und: 2 / 2 29. ADT: 6,750 30. Year of ADT: 2018 42a/b. Type of Svc on/und: Highway / Hwy-waterway	CONDITION <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>58. Deck: 5 Fair</td> <td>59. Sup.: 4 Poor</td> <td>60. Sub: 6 Satisfactory</td> </tr> <tr> <td>62. Culvert: N/A (NBI)</td> <td>61. Chan./Chan. Prot.: 6 Bank Slumping</td> <td></td> </tr> </tbody> </table> Flowline Notes <div style="border: 1px solid black; padding: 2px;"> [11/2019] FL to TOC = 56.7' to TOC at east L3, span 3 [11/2017] FL to TOC = 57.2' in span 3, L3, east truss </div>	58. Deck: 5 Fair	59. Sup.: 4 Poor	60. Sub: 6 Satisfactory	62. Culvert: N/A (NBI)	61. Chan./Chan. Prot.: 6 Bank Slumping	
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248. # Field Splices w/ Corrosion: 249. Scour Crit. POA Exists?: No 250. Headwall: 258. Plans w/Found. in ODOT File: - 259. Scour Eval. in ODOT File: - 263. Interchange at Intersection: No 264. Interstate Milepoint: -1.00	
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Oklahoma Dept. of Transportation - Bridge Inspection Report

NBI No.:
13688

Structure No.:
6602 0368EX

Local ID:
-1

Suff. Rating:
49.40

SD

Inspection Date: 11/20/20

Ed Cinadr

Invoice No.: 911683

Inspected With:

BRIDGE NOTES:

140-foot thru-truss (span 2), 210-foot thru-truss (span 3), 160-foot thru-truss (span 4) and three 100-foot pony trusses (Spans 1,5&6)
Clearance under span 5 was measured at 16ft 6in (incorrectly noted as 14ft 6in in 2017 FC report (posted for 14ft 11in). Posting sign on south portal of bridge has faded and is difficult to read (15ft 6in posting).

O/S Inspection Items Include: Cracks and overcuts in stringer copes (see attached table); Section loss/welded repairs to stringer and floor beam ends (see attached table); Section loss to lower chord truss gusset plates; Sweep in floor beams over piers; Bearing rotations; Pack rust distressing floor beam and truss connections areas; Impact damage or bowing of gusset plates;

INSPECTION NOTES: 11/20/20

PX – Action Recommended

- Replace the damaged portion of the southeast approach railing.
- Clear the deck drains along both curb lines.
- Replace asphalt patch in deck with concrete at pier 4.
- Replace the joint material for the joints at piers 1 and 3.
- Repair the delaminations and spalls, and seal cracks along joint headers.
- Install welded angles on full length of bottom flanges of FBs above pier 2 (FB 7, span 2 and FB 0 span 3).
- Repair areas of significant section loss to the floor beams.
- Abrasively clean and paint end floor beams and adjacent panel points where corrosion is reoccurring.
- Replace broken and deteriorated floor system gusset plates, bracing members, and hanger rods.
- Reconnect utility conduit where broken hangers exist in spans 1 and 4. Remove asphalt and debris from the bearing seats around the west truss fixed bearing at the south and north abutments.
- Reset the bearings at pier 3, span 3.

FX – Monitor

- Wider cracks developing throughout deck for efflorescence.
- Spalling in deck soffit for additional growth and section loss to reinforcing steel.
- Repairs to the stringers and consider installing repair plates to stringers with heavy section loss for strengthening.
- Crack lengths and overcuts to the stringer copes (consider drilling any crack tips that show signs of significant propagation – none at this time).
- Reactivating pack rust between the stringer web and floor beam connection angles for broken rivets.
- Sheared rivet head on the west face of stringer 6, south face of floor beam 1, span 6 for additional distress to the connection.
- Areas of section loss of floor beam for additional loss.
- Sweep in the end floor beams for additional misalignment (Span 2 FB 0 = 3/16 inch; Span 2 FB 7 = 3/8 inch; Span 3 FB 0 = 1/4 inch; Span 3 FB 10 = 3/8 inch; Span 4 FB 0 = 1/8 inch; Span 5 FB 5 = 1/4 inch). Analysis performed in 2015 determined load restriction not necessary for 3/8 inch sweep.
- 2-inch vertical crack and corrosion hole in top of connection of floor beam 5 to east truss in span 1 for additional growth.
- 6 plug welds in bottom flange at west truss connection at FB2 and FB5, span 2.
- Laps in the steel of W U9L8, span 3 for cracking and section loss.
- Area around exposed concrete pile at the north abutment for additional erosion or deterioration to pile.
- Pier 3 for rotation south due to soil against the north face of the pier.

ELEMENT CONDITION STATE DATA

Elem. / Env	Description	Unit	Total Qty	% 1	Qty. 1	% 2	Qty. 2	% 3	Qty. 3	% 4	Qty. 4
12 / 4	Re Concrete Deck	sq.ft	24,576.00	87%	21,470.70	12%	3,054.40	0%	50.90	0%	0.00
PX – Partial depth concrete and asphalt patches are common in the deck over the floor beams; Drains typically clogged.											
FX – Isolated longitudinal cracking up to 1/16 inch wide in spans 2 through 6; Low density map cracking less than 1/64 inch wide is typical.											
113 / 4	Steel Stringer	ft	2,548.00	100%	2,548.00	0%	0.00	0%	0.00	0%	0.00
No significant deficiencies.											
120 / 4	Steel Truss	ft	600.00	71%	425.00	17%	100.00	13%	75.00	0%	0.00
Upper Chord Vertical welds exist between upper chord and gusset plates with few cracked. Lower Chord PX – Utility conduit hangers broken in span 1 and repaired with cables around lower chord and lower lateral bracing in span 5. Web Members FX – Corrosion and loss in vertical connection plate for floor beam at deck level; Pack rust up to 3/8 inch thick with 1/8-inch thick loss at bridge rail connections to truss members. End Posts Pack rust developing under top cover plate.											
515 / 4	Steel Protective Coating	sq.ft	145,456.00	0%	0.00	100%	145,456.00	0%	0.00	0%	0.00
The bridge was painted in January 2014. Isolated areas exhibit reactivating corrosion typically at leaking deck joints and interfaces between various connection plates. Paint above deck is chalking and brittle.											
152 / 4	Steel Floor Beam	ft	1,426.00	56%	798.00	14%	200.00	30%	428.00	0%	0.00

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NBI No.: 13688		Structure No.: 6602 0368EX		Local ID: -1		Suff. Rating: 49.40		SD					
<p>PX - FB0, span 3 at west truss has 15-inch vertical x 3-inch wide corrosion hole at east truss connection; End floor beams have significant section loss on flanges and web with active corrosion (areas inaccessible for abrasively cleaning and painting); Numerous additional areas painted over section loss exist throughout bridge with greatest amount of loss along east end of floor beams;</p> <p>FX - Member Alignment - Multiple floor beams were noted to exhibit sweep up to 3/8in. Analysis performed by the OKDOT on November 20, 2015 determined that a load restriction was not necessary (max sweep in 2015 = 3/8in). Floor beam sweep has not significantly changed; Plug welds in bottom flange of FB2 and FB5, span 2 at ends; 2in crack at east truss cope for FB5 span 1; Section loss to top flange of floor beams, especially at end floor beams;</p> <p>Multiple welded plate repairs exist on floor beam web and bottom flange.</p>													
162 / 4	Stl Gus Plate	each	396.00	87%	346.00	0%	0.00	13%	50.00	0%	0.00		
<p>PX - 3/16-inch deep section loss to bottom of 8 inches of gusset plates at bearings.</p> <p>3/8-inch thick pack rust bowing gusset plates 1/2 inch at bearings. Painted over section loss up to 1/8-inch deep exists at in the lower chord gusset plates along the top flange of the lower chord at isolated locations.</p>													
205 / 4	Re Conc Column	each	10.00	30%	3.00	70%	7.00	0%	0.00	0%	0.00		
<p>A spall 12 inches long by 5 inches high by 2 inches deep with no exposed reinforcing steel exists in the capitol of the west column of pier 1 on the south face. Spall is currently not undermining bearing. A horizontal crack is emanating from a patch on the north face of pier 1 at the east end of the patch, patch sound. Hairline circumferential and vertical hairline cracks exist in several of the pier columns. Pier 3 has soil 15 feet higher on north face than south face.</p>													
215 / 4	Re Conc Abutment	ft	76.00	34%	26.00	66%	50.00	0%	0.00	0%	0.00		
<p>PX - Asphalt on west end of both abutments engulfs west truss fixed bearings.</p> <p>FX - One concrete pile is partially exposed up to 6-inches vertically at the north abutment beneath the west truss bearing. 4-foot long horizontal crack with moderate efflorescence in north abutment breastwall.</p>													
227 / 4	Re Conc Pile	(EA)	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00		
<p>FX - One concrete pile is partially exposed up to 6-inches vertically at the north abutment beneath the west truss bearing. No significant deficiencies.</p>													
301 / 4	Pourable Joint Seal	ft	90.00	0%	0.00	0%	0.00	100%	90.00	0%	0.00		
<p>PX - The expansion joints at piers 1 and 3 exhibit isolated locations of adhesion failure totaling approximately 9 feet at each joint. Isolated asphalt and concrete patches adjacent to the joints exhibit cracking and spalling. Several joints exhibited full width transverse hairline cracks up to 1/8-inch wide adjacent to the floor beams.</p>													
311 / 4	Moveable Bearing	each	12.00	33%	4.00	33%	4.00	33%	4.00	0%	0.00		
<p>PX - Excessive bearing rotations were noted to the span 3, pier 3 bearings for both truss lines. The bearings are both rotated 14° in expansion. Bearing measurements were taken at all the bearings at 30°F. Measurements are documented below (see 13688(2019-11-14)FC for bearing measurements).The east anchor bolt at the east truss bearing for span 5 and pier 5 is backed off nearly 2-inches. The truss bearings at pier typically exhibit minor surface corrosion on the rockers and masonry plates.</p>													
313 / 4	Fixed Bearing	each	12.00	50%	6.00	50%	6.00	0%	0.00	0%	0.00		
<p>PX - Asphalt on west end of both abutments engulfs west truss fixed bearings.</p>													
321 / 4	Re Conc Approach Slab	sq.ft	2.00	100%	2.00	0%	0.00	0%	0.00	0%	0.00		
<p>Few hairline transverse cracks exist in the north approach slab.</p>													
330 / 4	Metal Bridge Railing	ft	1,650.00	12%	200.00	39%	650.00	48%	800.00	0%	0.00		
<p>1/8-inch deep painted over section loss throughout the interior face of the railing. Cracks were noted in the horizontal web of the steel bridge railing at the coped connections to a few of the end posts.</p>													
919 / 4	St.(Rail) Prot. Coat	(SF)	7,128.00	0%	0.00	100%	7,128.00	0%	0.00	0%	0.00		
<p>olated locations of peeling paint with minor corrosion and minor impact damage were noted to the bridge rail.</p>													
821 / 4	Steel Truss (Ovhd)	(LF)	1,020.00	85%	870.00	10%	100.00	5%	50.00	0%	0.00		
<p>Upper Chord</p> <p>Vertical welds exist between upper chord and gusset plates with few cracked.</p> <p>Lower Chord</p> <p>PX - Utility conduit hangers broken in span 4.</p> <p>Web Members</p> <p>FX - Laps in W U9L8, span 3; Corrosion and loss in vertical connection plate for floor beam at deck level; Pack rust up to 3/8 inch thick with 1/8-inch thick loss at bridge rail connections to truss members.</p> <p>End Posts</p> <p>Pack rust developing under top cover plate.</p>													
859 / 4	Soffit	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00		
<p>FX - Isolated areas of the deck soffit exhibit spalling with exposed reinforcing steel typically adjacent to the floor beams. Isolated locations of cracks with efflorescence which is allowing water to leak through the cracks onto the floor beams.</p>													
870 / 4	Concrete Wingwall	(EA)	4.00	100%	4.00	0%	0.00	0%	0.00	0%	0.00		
<p>No significant deficiencies.</p>													
877 / 4	St. Stringer End(5Ft)	(LF)	2,400.00	81%	1,950.00	4%	100.00	15%	350.00	0%	0.00		
<p>FX - Heavy section loss to the stringers near the top of the floor beam connections with repairs or repair recommendations; Stringers exhibited cope cracks and overcuts throughout the structure (1in max, two new overcuts of 1/4in and 1/2in noted and three locations with growth of 1/16in); Pack rust up to 1 5/8 inch thick between the stringer/floor beam webs and connection angles has begun to reactivate in isolated locations; One sheared rivet head is present on the west face of the stringer 6 connection to the south face of floor beam 1 in span 6.</p>													
909 / 4	Pourable Fix Jt.Seal	(LF)	1,054.00	0%	0.00	100%	1,054.00	0%	0.00	0%	0.00		

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<u>NBI No.:</u> 13688		<u>Structure No.:</u> 6602 0368EX		<u>Local ID:</u> -1		<u>Suff. Rating:</u> 49.40		SD				
PX – Isolated asphalt and concrete patches adjacent to the joints exhibit cracking and spalling. Additional joints exhibited spalls up to 2 square feet by 2 inches deep to the joint headers. Several joints exhibited full width transverse hairline cracks up to 1/8-inch wide adjacent to the floor beams												
956 / 4	St. Cracking/Fatigue	(SF)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
FX - Stringers exhibited cope cracks and overcuts at 78 locations, 3 having 1/16in growth.												
957 / 4	Pack Rust Smart Flag	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00	
Pack rust between truss web and railing, floor beam and lower lateral bracing gusset plates, connection angles of floor beams and stringers.												
958 / 4	Concrete Cracking SF	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
FX – Isolated longitudinal cracking up to 1/16-inch wide was noted in spans 2 through 6. Low density map cracking less than 1/64-inch wide is typical to isolated locations throughout the deck. The worst location of map cracking was noted to be a 5 square-foot area of 1/16-inch wide cracking with efflorescence in the west shoulder at pier 2.												
963 / 4	Steel Section Loss SF	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00	
PX - FB0, span 3 at west truss has 15-inch vertical x 3-inch wide corrosion hole at east truss connection; End floor beams have significant section loss on flanges and web with active corrosion (areas inaccessible for abrasively cleaning and painting); Numerous additional areas painted over section loss exist throughout bridge; 3/16-inch deep section loss to bottom of 8 inches of gusset plates at bearings. FX - Heavy section loss to the stringers near the top of the floor beam connections.												
968 / 4	Erosion SF	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
FX – One concrete pile is partially exposed up to 6-inches vertically at the north abutment beneath the west truss bearing. A 2-foot deep erosion ditch extending from panel point 3 of the east truss into span 2 to the channel was noted. The ditch has been partially lined with dump rock.												
969 / 4	OutOfPlane Dist./Load	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00	
FX – Member Alignment - Multiple floor beams were noted to exhibit sweep up to 3/8in. Analysis performed by the OKDOT on November 20, 2015 determined that a load restriction was not necessary (max sweep in 2015 = 3/8in). Floor beam sweep has not significantly changed.												

BRIDGE UNDER ROUTE REPORT

NBI No.:
13688

Structure No.:
6602 0368EX

Local ID:
-1

Bridge Description:

ROUTE ON THE STRUCTURE

100ft.-140ft.-210ft.-160ft.-100ft.-100ft. HI. TRUSS SPANS

1. State: Oklahoma
2. Division: Division 8
3. County: ROGERS
4. City: Unknown
Admin Area: Unknown
7. Facility Carried : S.H. 66 NB
9. Location: 3.3 MI N JCT I-44
16. Latitude: 36° 12' 29.18" 17. Longitude: 095° 43' 29.72"
22. Owner: State

INVENTORY ROUTE

5a. On/Under: 1 Route On Structure
5b. Kind of Hwy: 3 State Hwy
5c. Lvl of Srvc: 1 Mainline
5d. Route No.: 00066
5e. Dir. Sufx: 0 N/A (NBI)

12. Base Hwy Net.: Not on Base Network
20. Toll Facility: On free road
26. Function Class: 17 Urban Collector
100. Def. Hwy: Not a STRAHNET hwy
102. Traffic Dir.: 1-way traffic
104. Hwy System: On the NHS
105. Fed Land Hwy: N/A (NBI)
110. Defense Hwy: Not a STRAHNET hwy

ROUTE UNDER THE STRUCTURE:

Roadway Name: CO. RD. UNDER

INVENTORY ROUTE:

5a. Inventory Route: 2 One Route Under
5b. Kind of Highway: 4 County Hwy
5c. Level of Service: 1 Mainline
5d. Route No.: 00000
5e. Dir. Suffix: 0 N/A (NBI)

10. Min. Vert. Clr.: 14.50
12. Base Hwy Network: Not on Base Network
13. LRS Rte./SubRte: -1 / -1
19. Detour Len.: 0.00
20. Toll Facility: On free road
26. Function Class: 07 Rural Mjr Collector
28b. Lanes Und.: 2
29. ADT: 100
32. Appr. Rwy Width: 37.07

47. Total Horiz. Clr.: 59.71
51. Roadway Width: 28.87
100. Defense Hwy: Not a STRAHNET hwy
102. Traffic Direction: 2-way traffic
104. Hwy System: Not on NHS
105. Fed. Land Hwy.: N/A (NBI)
109. Truck ADT%: 15
110. Natl. Trk Netwk: Not part of natl netwo
114. Future ADT: 160

Agency Field: 1.(Und.Rte.) U 2. (Vert. X-Ref.): -1 3. (Compass Dir.): N 4. (VC Posted N/E): 1411 5. (VC Posted S/W): 1411

Notes: