## Oklahoma Dept. of Transportation - Bridge Inspection Report

NDI No -	lahoma [	uro No :	ocal ID:	C# D.	tina:	
<u>NBI No.:</u> 18769	5507 0		ocal ID:	<u>Suff. Ra</u> 80.		FO
Bridge Description: IDENT	TIFICATION			INSPE	CTION	
47ft.,2-74ft.,47ft. CONT. I-BM. SPANS		ft .	Type Insp. Req		req. Insp. Da	
771c,2 7 11c, 771c 00117. 1 Divi. 017110	014.70 220.00		NBI:		nonths 11/21/202	
Oldahama I		L 44 NID	FC: N UW: N	0 0	NA NA	NA NA
1. State: Oklahoma 7. Fa 2. Division: Division 4 6. Fe	cility Carried :	-44 NB .P. R.R. & ST. UNDER	UW: N OS: N	0	NA NA	NA NA
2. Division: Division 4 6. Fe	9. Location:		<u> </u>		CICATION	101
4. City: OKLA. CITY	11. Mile Post:	0.715 mi	12.Base Hwy Net.: O		101. Parallel Str.:	Right of    bridge
Admin Area: Unknown		/ Sub Rte: 5500007HX/ 00			101. Farallel Str	1-way traffic
5a. On/Under: Route On Structure	16. Latitude:	35° 28' 13.50"	21. Custodian: State		103. Temp. Str.:	Not Applicable (P)
5b. Kind of Hwy: Interstate Hwy	17. Longitude:		22. Owner: State		104. Hwy System:	On the NHS
5c. Lvl of Srvc: Mainline 5d. Route No: 00044		g: Not Applicable (P) e: 0.00	26. Function Class: 1	1 Urban Interstate	105. Fed Land Hwy:	N/A (NBI)
5d. Route No.: 00044 5e. Dir. Sufx: N/A (NBI)	% Responsible	g #: Unknown	37. Historical Sig.: No	-	•	On Interstate STRAHN
	ı		100. Def. Hwy: On Ir			Long Enough
STRUCTURE TY		RIALS Stringer/Girder			<u>ITION</u>	
43a/b. Main Span:	,	Stringer/Girder Not Applicable (P)	58.Deck: 5 Fair	59.Sup.: 5 F		ıb:5 Fair
44a/b. Appr. Span: 45. # of Main Spans: 4	111/74	TOUT APPRIORDIE (I )	62.Culvert: N/A (NBI	) 61.Chan./Ch	nan. Prot.: N/A (NB	31)
46. # of Appr. Spans: 0			Flowline Notes			
107. Deck Type: Concrete-Ca	st-in-Place					
108a. Wearing Surface: Low Slump (	Concrete					
108b. Membrane: None			1		AND POSTING	
108c. Deck protection: Other			- · · · - · · · · · · · · · · · · · · ·	MS 18 (HS 20) A Open, no restriction	Date Rated:	01/06/2011
AGF AI	ND SERVICE			i At/Above Legal Loa		
19. Detour Length: 0.1 mi	106. Year Rec	onst.:	63.Op / 65.Inv. Rating	•		.F Load Factor
27. Year Built: 1974	109. Truck AD	T: 12%			HS 3-3	EV3 SHV
28a/b. Lanes on/und: 4 / 4			64. Operating Rating		57.30 91.10	0.00
29. ADT: 70,350			66. Inventory Rating (	tons): 26.70	34.40 54.70	-1.00
30. Year of ADT: 2020	<b>l</b>	Llunz D D		<u>AP</u> PR	AISAL	
42a/b. Type of Svc on/und: Highway		Hwy-R.R.	36a. Brdg Rail: 1	Meets Standards		7 Above Min Criteria
	TRIC DATA		36b. Transition: 1	Meets Standards	69. Vert./Horiz. Und	Iclr: 2 Intolerable - Re
10. Vert. Clearance: 99.99 ft	50a. Curb/Sdv		000.7.ppta	Meets Standards	71. Waterway Adeq	N Not applicable
32. Appr Rwy Width: 70.70 ft	50b. Curb/Sdv		36d. Appr.Rail Ends:	1 Meets Standard 5 Above Min Tolera		t: 8 Equal Desirable C N Not Over Waterwa
33. Median: No median 34. Skew: 20.00°	51. Width Curb 52. Width Out		67. Str Evaluation:			IN INOL OVEL WaterWa
35. Struct. Flared: No flare	Deck Area				PROVEMENTS	24 Doubles - 0
47Horizontal Clr: 70.70 ft	53. Min.Vert.C		94. Bridge Cost: 95. Roadway Cost:	\$1,914,095 \$3,158,257	<ul><li>75. Type of Work:</li><li>76. Lngth of Improve</li></ul>	31 Repl-Load Capacitement: 288.0 ft
48. Length Max Span: 74.00 ft	54a.Min.Vt.Un		96. Total Cost:	\$5,359,466	114. Future ADT:	112,560
49. Struct. Length: 246.00 ft	54b. Min. Vert.		97. Yr.of Cost Est.:	2015	115. Yr.of Future AL	- 0040
	55a. Min.Lat.U		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		ION DATA	
	55. Min.Lat.Un 56. Min.Lat.Un	40.0	38. Nav. Control:	NA-no waterway		
			39. Vert. Clearance:	0.0 ft	111. Pier Protect.:	Not Applicable (P)
200c. Temperature: 38	OKLAHOMA	LIIENIO	40. Horiz. Clearance:	0.0 ft	116. Lift Bridge Vert	Clr.: 0.0 ft
200d. Weather: Clear	-1 / -1	214a. Posted Weight Limit:	NR	244. Span Lengths	: 47 74	74
201. Struc.Stl. ASTM Desig.: 202. Waterprf.Membrane: -1	1 / -1	b. Posted Speed Limit:	60	47		
Date Installed: 01/01/190	1	c. Narrow/1way Brdg Sign:	No	245. Girder Depth:		
203. Type Exp. Device: Armored J	oint	d. Vertical Clr. Sign:	Yes No	246a. Type of Ove		sity
Pourable		Adv. Warning Sign: e. Navigation Lights?:	NA NA	b. Overlay Thickn	ess: 1.50	
204. Type of Railing: SFP-1 205. Material Quantity: 2,061.00		Working/Not Working:	NA	c. Overlay Date:	10/11/200	
208a. Type of Abutment: Skeleton			TERSTATE	d. Ovly Depth Ch 247. Protective Sys	· —	N
b. Type of Found.: Steel Piling	•	218. Functionally Obsolete :	FO	Z-77. 1 TOLECTIVE SYS		
209. Type of Pier/Found.: 4	/ No	220. Bridge Redecked	_			
Steel Piling		221. Substr.Cond.(U/W):		040 # Eight Ogliss	w/Corrector	
210. Foundation Elev.: -1.00	-1.00	222. Fill Over RCB: 223. Appr.Slab/Rwy Cond.:	2	248. # Field Splices 249. Scour Crit. PC		_
-1.00 -1.00 -1.00 -1.00 None	-1.00		d Lead 3 Coat System	250. Headwall:		=
211. Wear.Surf.Prot.Sys: None Date Installed: 01/01/190	1	N/A	•	258. Plans w/Found	020	/es
211c. Silane Reapplied	•	226. Date Painted: 197		259. Scour Eval. in		- No
211d. Date :		227. Paint Color: Silv		263. Interchange at 264. Interstate Mile		120.96
	tion		nventional Forming		F	
213. Utilities Attached: Communica	lion	000 0 1 1	rrant 0 Daniandt.			
213. Utilities Attached: Communica	uon	200. Contool Bab i tto	rrent & Desired route			
213. Utilities Attached: Communica	uon	200. Contool Buo I tto	rrent & Desired route ncrete / 9			

### Oklahoma Dept. of Transportation - Bridge Inspection Report

NBI No.: <u>Structure No.</u> 18769 5507 0071E			Local ID:	<u>Suff. Rating:</u> 80.80	FO	
Inspection Date:	11/21/22		Gary Hines			
Invoice No.:	GLH1122	Inspected With:	Gary Richardson			

#### **BRIDGE NOTES:**

Four span continuous steel beam structure with spans at 47'-74'-74'-47'.

#### **INSPECTION NOTES:**

11/21/22

G Hines inspection comments - 11/21/2022

The loose diaphragms in span #1 between the 7th & 8th beams were repaired since 2014 \* Good side drains \* FX - Slopewall settlement on the North from 2in to 5in & on the South from 1in to 3in with exposed piles each location \* The total horizontal clearance for the railroad is 68ft - the minimum R.H. clearance for the railroad is 18.4ft \* There is a drainage ditch under span #2 \* FX - Erosion needs fill at SE slopewall area & NE wing (2022 photo @ SE)\*

#### **ELEMENT CONDITION STATE DATA**

	CONDITION STATE DATA	1	T-4-1 01	0, 4	04 4	I 0/ 0 I	04. 0	0, 1	040	0/ 4	Ot . 1
Elem. / Env	<u>'</u>	Unit	Total Qty	% 1	Qty. 1	% 2	Qty. 2	% 3	Qty. 3	% 4	Qty. 4
12 / 4	Re Concrete Deck	sq.ft	17,392.00	0%	0.00	80%	13,889.00	20%	3,478.00	0%	25.00
	X - The deck was previously patched wh		. 0		,	, ,	,	, ,	'	•	
-	esent along the expansion joint at the N										_
	2;4; & 9; 2022 photo @ #4). Cavities fron		•				ed. The Nort	th SECTION	ON of span	#4 has s	hifted
	deways about 3 inches - (no shear studs		_		_		40.000.00	000/	0.400.00	40/	100.00
510 / 4	Wearing Surfaces	sq.ft	17,392.00	0%	0.00	79%	13,800.00	20%	3,492.00	1%	100.00
	PX - The deck was patched where the									les are	
	present along the expansion joint at the	e North	end of span #	4 & along	(6) constru	ction join	ts (#1-2-4-5-	6 & 9). Ca	avities from		
	missing/removed pavement markers r	need to b	oe filled. The N	lorth SEC	TION of sp	an #4 has	s shifted side	ways abo	out 3 inches	- (no	
	shear studs are present in the end par	nels).									
107 / 4	Steel Opn Girder/Beam	ft	1,314.00	0%	0.00	100%	1,310.00	0%	4.00	0%	0.00
P	X - There is some minor exfoliation on th	e botton	n of the 8th be	am near t	he North at	outment. I	_ots of mode	rate to he	eavy rust on	most be	ams in
sp	ans #5 thru #9. Needs painted in the ne	ar future	<b>)</b> .								
515 / 4	Steel Protective Coating	sq.ft	20,802.00	0%	0.00	0%	0.00	0%	0.00	100%	20,802.00
	PX - There is some minor exfoliation of	on the bo	ottom of the 8th	h beam n	ear the Nor	th abutme	ent. Lots of m	noderate t	to heavy sur	face rust	
	on beams #5 thru #9. Needs painted i								,		
205 / 4	Re Conc Column	each	12.00	92%	11.00	8%	1.00	0%	0.00	0%	0.00
	uperficial defects noted on some areas -		_							1	
215 / 4	Re Conc Abutment	ft	158.00	0%	0.00	62%	98.00	38%	60.00	0%	0.00
	X - Heavy horizontal cracking & spalling		_						_		
	7 & 8. Some light to heavy horizontal cr					-		-			-
	orth on the 2nd-4th-5th & 7th pedestals	•								present	on the
923 / 4	Conc Substr Prot Coa	(SF)	_	0%	0.00	0%	0.00	0%	0.00	100%	7,102.00
323 / 4		, ,									7,102.00
	The coating on the abutments is peeling.	ng - crac	cked & stained	in most a	areas. Mino	r defects	on small area	as of the	caps. The co	olumns	
205 / 4	are in good condition.	(EA)	6.00	00/	0.00	00/	0.00	1000/	6.00	00/	0.00
225 / 4	Steel Pile	(EA)	6.00	0%	0.00	0%	0.00	100%	6.00	0%	0.00
	X - There are (6) pilings visible 2 to 4 inc		_						-		_
234 / 4	Re Conc Pier Cap	ft	237.00	96%	227.00	3%	8.00	1%	2.00	0%	0.00
	K - One tiny spall on the South face of be								•		
	ome minor cracking on the bottom side of	of the 2n	d cap. Water s	staining is	present ne	ar the cer	nterline of ea	ich cap w	ith areas of i	rebar cha	airs
	sible on bottom surfaces.		T =0.00	00/		00/	0.00	00/	0.00	1000/	70.00
301 / 4	Pourable Joint Seal	ft	79.00	0%	0.00	0%	0.00	0%	0.00	100%	79.00
	X - The North joint was converted to pou			-	=	-		coded at a	a compressi	on joint.	Now
	sible it reveals sealant failure in 70% of t										
302 / 4	Compressn Joint Seal	ft	79.00	0%	0.00	0%	0.00	0%	0.00	100%	79.00
P	X - The gland in the South joint is severe	ly ripped	d and torn with	seepage	& spalling	below. Th	ne missing ar	mor has	sections hav	/e been	
	placed since 2018. Armor rattles loudly l										
311 / 4	Moveable Bearing	each	36.00	6%	2.00	56%	20.00	14%	5.00	25%	9.00
PΣ	X - Most roller bearings have heavy surfa	ace rust	overall. Some	have min	or exfoliation	n presen	t (5- 6- 7- 8 8	& 9 on S.	abutment) -	none se	rious
at	this time. Each roller on the North has the	ne LH re	taining ear bei	ing shear	ed off due t	skew fo	rces (2006 p	hoto); sin	nilar conditio	ons exist	on the
Sc	outh abutment as well. Bearings #5 & 6 o	on the N	orth are only u	inder the	beam 50%	(2020 ph	oto). All othe	rs are onl	y 55% unde	r each b	eam at
thi	is time (2012 photo). All north bearing ar	e also re	otated ~20 deg	grees. Ne	eds attentio	n soon.					
313 / 4	Fixed Bearing	each	9.00	44%	4.00	56%	5.00	0%	0.00	0%	0.00
Sc	ome light to moderate surface rust noted	on oute	er bearings.								
321 / 4	Re Conc Approach Slab	sq.ft	2.00	100%	2.00	0%	0.00	0%	0.00	0%	0.00
	oth have been repaired in the traffic lane	s since 2	2016 - the SE	shoulder	is still 3 incl	nes low w	rith humping	at the de	ck edge.		
331 / 4	Re Conc Bridge Railing	ft	492.00	49%	243.00	50%	245.00	1%	4.00	0%	0.00
	X - Some minor spalls noted on the Wes	t - one n	_			vertical		in a few			
	ale on the lower East rail due to salt spr				_				200		:=:
30	alo on the lower East rail due to sait spir	ay. Ona	y pomito are pri	ooont at t	IN OL WINL	. auc 10 U	JON TOTALIOTI/	ormung.			

# Oklahoma Dept. of Transportation - Bridge Inspection Report

<b>59 / 4</b> Sor <b>65 / 4</b>	Soffit	1		X			<u>D:</u>		_	uff. Rating 80.80	_		FC
	ma analla 9 datariaration	(	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
35 / 4	ine spails & deterioration	are present near	the join	its below th	e curbs. So	me rustin	g noted on	the expose	ed rebar.	-			
	St.Open Gird E	nd(5Ft (	(LF)	90.00	0%	0.00	94%	80.00	6%	10.00	0%	0.00	
PX	( - Some minor exfoliation	in span #4 on th	e 6th- 7	th & 8th be	ams at the	North abu	tment - als	o some on	the 9th be	am below t	he North	fixed	
join	nt. Some loss noted on So	outh abutment en	nds #2 th	nru #7 as w	ell. Various	degrees	of surface i	rust otherw	ise. Also s	ee SF #973	3.		
70 / 4	Concrete Win	gwall (	(EA)	4.00	100%	4.00	0%	0.00	0%	0.00	0%	0.00	
		'								_			
72 / 4	St.Gird Und Co	onst.Jt (	(LF)	810.00	0%	0.00	98%	795.00	2%	15.00	0%	0.00	
PX	( - Heavy surface rust is p	resent below eac	ch joint -	the worst	areas are be	elow the 4	th- 5th & 6	th fixed joir	its with so	me initial ex	kfoliation		
not	ted. Loss not serious at th	nis time.	,					,					
09 / 4	Pourable Fix J	t.Seal (	(LF)	639.00	0%	0.00	33%	213.00	22%	142.00	44%	284.00	
PX	( - Moderate to heavy spa	lling along the 1s	st- 2nd-	4th- 6th- 8t	h & 9th ioint	s with spa	alls & patch	nes (2020 p	hotos @ #	- ‡2: 4 & 9: 20	022 photo		
	). The sealant is deteriora				•					,,		O	
58 / 4	Concrete Crack	,	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00	
PX	( - Deck has light to mode	rate transverse c	racking	that have r	not been se	aled.				_			
63 / 4	Steel Section Lo	oss SF (	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
Los	ss not serious on any elei	ment at this time.								_			
66 / 4	Exposed Abut.P	iling SF (	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
PX	C - There are 6 pilings visi	ble 2 to 4 inches	under th	ne North ab	utment due	to the slo	pewall set	tling.		_			
68 / 4	Erosion S		(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
PX	( – A 3ft. deep cavity is pr	esent along the F	ast side	e of the Sou	ıth slopewa	ll (2022 pl	noto) The	large cavity	at the up	ner NF wind	g area ha	s	
	en filled.					·· ( p·					9		
69 / 4	OutOfPlane Dis	t./Load (	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00	
FX	C - The beams in the end s	spans are shifted	laterally	due to lon	gitudinal fo	ces actino	in the de	ck on the w	edge shar	ed section:	s of the e	 nd	
	ck spans.	.,		,	J	,	<b>5</b>		9				
73 / 4	Horizontal For	ce SF (	(EA)	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00	
	( - Compression forces ha	ive pushed sever	n of the	9 beams in	to the South	n backwal	& all bear	ns on the N	lorth are ir	nto the back	wall (202	0	
	oto). The skew angle com	•									•		
	ids present in the end par		U								,		
	out 50-55%.	.o.o por trio piario	٠,. ١١١٠ د	.camo nave	. Juliou uo	511 (0 10	5		, 10001119	, 5.1 1110 400		ig0	

### BRIDGE UNDER ROUTE REPORT

NBI No.: Structure No.: Local ID: 18769 5507 0071EX

**ROUTE ON THE STRUCTURE Bridge Description:** 

47ft.,2-74ft.,47ft. CONT. I-BM. SPANS SK. 70 DEG.30ft.

Oklahoma 1. State: 2. Division: Division 4 3. County: OKLAHOMA OKLA. CITY 4. City: Admin Area: Unknown 7. Facility Carried: I-44 NB 0.7 MI N I-40 9. Location:

35° 28' 13.50" 16. Latitude:

22. Owner: State

17. Longitude:

**INVENTORY ROUTE** 

Route On Structure 5a. On/Under: Interstate Hwy 5b. Kind of Hwy: 1 5c. Lvl of Srvc: Mainline

00044 5d. Route No.: 0 N/A (NBI) 5e. Dir. Sufx:

097° 34' 44.48"

On Base Network 12. Base Hwy Net.: 20. Toll Facility: On free road

11 Urban Interstate 26. Function Class: On Interstate STRAHNE 100. Def. Hwy:

102. Traffic Dir.: 1-way traffic On the NHS 104. Hwy System: 105. Fed Land Hwy: N/A (NBI)

On Interstate STRAHNE 110. Defense Hwy:

**ROUTE UNDER THE STRUCTURE:** 

**BLACK GOLD DRIVE UNDER** Roadway Name:

**INVENTORY ROUTE:** 

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

10. Min. Vert. Clr.: 26.17

12. Base Hwy Network: Not on Base Network -1 13. LRS Rte./SubRte: / -1

0.00 19. Detour Len.: On free road 20. Toll Tacility:

16 Urban Minor Arterial 26. Function Class:

28b. Lanes Und.: 200 29. ADT: 48.00 32. Appr. Rwy Width:

47. Total Horiz. Clr.: 58.00 51. Roadway Width: 48.00

Not a STRAHNET hwy 100. Defense Hwy:

2-way traffic 102. Traffic Direction: Not on NHS 104. Hwy System: N/A (NBI) 105. Fed. Land Hwy.:

109. Truck ADT%:

Not part of natl netwo 110. Natl. Trk Netwk:

114. Future ADT:

3. (Compass Dir.): E 4. (VC Posted N/E): 2602 2602 Agency Field: 1.(Und.Rte.) 2. (Vert. X-Ref.): 5. (VC Posted S/W):

Notes: