Oklahoma Dept. of Transportation - Bridge Inspection Report

NBI No.:	Struct	ure No.:	Local ID:	ND						
15554	5568 1	146SX	-1	-1 84.80						
Bridge Description: IDEN	INSPECTION									
55ft70ft55ft. I-BM. SPANS SK. 38 DEG.47ft.43ft.			Type Insp. Rec	<u>ı. Insp. Done I</u> 1 24 ı	Freq. Insp. Date months 9/27/2018	<u>Next Insp.</u> 09/27/2020				
			FC: N	0	NA	NA				
1. State: Oklahoma 7. F	acility Carried :	I-40 EB	UW: N	0	NA	NA				
2. Division: Division 4 6. Feat. Intersect: I-240 WEST UNDER			OS : N	0	NA	NA				
3. County: OKLAHOMA 9. Location: 11.3 MI E OF JCT I35			CLASSIFICATION							
4. City: OKLA. CITY	11. Mile Post:	11.457 mi	12.Base Hwy Net.: O	n Base Network	101. Parallel Str.: R	tight of bridge				
Admin Area: Unknown	13. LRS Inv.	/ Sub Rte: 5568 0000 / 07	20. Toll Facility: On free road 102. Traffic Dir.: 1-way traffic							
5a. On/Under: Roule On Structure	16. Latitude:	007° 17' 31 38"	21. Custodian: State 103. Temp. Str.: Not Applicable (P)							
5c Lyl of Styc: Mainline	98 Border Bro	no. Not Applicable (P)	22. Owner: State	22. Owner: State 104. Hwy System: On the NHS						
5d. Route No.: 00040	% Responsible	e: 0.00	26. FUNCTION Class: 11 Orban Interstate 105. Fed Land Hwy: N/A (NBI) 37. Historical Sig : Not eligible for NRHP 110. Defense Hung: On Interstate STRAHME							
5e. Dir. Sufx: N/A (NBI)	99. Border Bro	lg #: Unknown	100 Def Hww. On L	nterstate STRAHNE	112 NBIS Length:	ong Enough				
STRUCTURE T	YPE AND MATE	RIALS	100. Dei: 11wy. On 1							
43a/b. Main Span:	Steel /	Stringer/Girder	58 Deck: 6 Satisfactory 59 Sup 7 Good 60 Sub 5 Eair							
44a/b. Appr. Span:	N/A /	Not Applicable (P)	62.Culvert: N/A (NB	62 Culvert: N/A (NBI)						
45. # of Main Spans: 3			Flowline Notes	Flowline Notes						
46. # of Appr. Spans: 0										
107. Deck Type: Concrete-C	ast-in-Place									
108a. Wearing Surface: Monolithic C	Concrete			1048 515						
108b. Membrane: None			31 Design Load	LUAD RA FINO MS 18 (HS 20)	S AND POSTING	4.4/0.4/00.00				
108c. Deck protection: Epoxy Coat	41. Post. Status	41 Post Status: A Open, no restriction								
AGE A	ND SERVICE		70. Posting:	5 At/Above Legal Loa	ads					
19. Detour Length: 0.1 mi	106. Year Red	const.: 1989	63.Op / 65.Inv. Rating	g Meth.: 1 LF Lo	bad Factor / 1 LF	Load Factor				
27. Year Built: 1962	109. Truck AD	OT: 36%				EV3 SHV				
28a/b. Lanes on/und: 2 / 2			64. Operating Rating	(tons): 76.61	99.89 145.29 -	0.00				
29. ADT: 17,950			66. Inventory Rating	(tons): 45.97	60.19 87.19 -	1.00				
30. Year of ADT: 2010		Highway		APP	RAISAL					
	y 1	riigriway	36a. Brdg Rail: 1	Meets Standards	68. Deck Geom.: 6	Equal Min Criteria				
GEOM	ETRIC DATA		36b. Transition: 1	Meets Standards	69. Vert./Horiz. Undcl	r: 4 Tolerable				
10. Vert. Clearance: 99.99 ft	50a. Curb/Sdv	vlk Width L: 0.00 ft	36c. Appr. Rail: 1	Meets Standards	71. Waterway Adeq:	N Not applicable				
32. Appr Rwy Width: 30.00 It	50b. Curb/Sav	vik vviatn R: 0.00 it	360. Appr.Rall Ends:	5 Above Min Tolera	112 Appr. Alignment:	o Equal Desirable Chi Not Over Waterway				
34 Skew: 51.00°	52 Width Out	to Out: 41.00 ft	67. Stř Evaluation.		113. Scour Childai.	Thot Over Waterway				
35. Struct. Flared: No flare	Deck Area	a: 7,502.45 sq. ft		PROPOSED I	MPROVEMENTS					
47Horizontal Clr: 30.00 ft	53. Min.Vert.C	l.Ovr Brg: 99.99 ft	94. Bridge Cost:	\$4,444,286	75. Type of Work: 3	1 Repi-Load Capacity				
48. Length Max Span: 70.00 ft	54a.Min.Vt.Un	dclr.Ref.: H Hwy beneath str	U 95. Roadway Cost.	\$9,450,566	114 Future ADT:	28.720				
49. Struct. Length: 183.00 ft	54b. Min. Vert	. Undclr.: 17.40 ft	97 Yr of Cost Est	2015	115 Yr of Future ADT	- 2036				
	55a. Min.Lat.U	Indclr.Ref: H Hwy beneath s								
	55. Min.Lat.Underclr. R: 10.00 π			38. Nav. Control: NA-no waterway						
56. Wint.Lat. Onderchit. L. 7.20 m			39. Vert. Clearance:	- 39. Vert. Clearance: 0.0 ft 111. Pier Protect.: Not Applicable (P)						
200c. Temperature: 62	OKLAHOM	<u>a iiems</u> I	40. Horiz. Clearance:	0.0 ft	116. Lift Bridge Vert.	Clr.: 0.0 ft				
200d. Weather: Clear		214a Posted Weight Limit	NR	244 Span Length	e.					
201. Struc.Stl. ASTM Desig.:	-1/-1	b. Posted Speed Limit:	55	244. Span Length	0.					
Date Installed 01/01/190)1	c. Narrow/1way Brdg Sign	: No	245 Order Dect						
203. Type Exp. Device: Elastome	ric Strip Seal	d. Vertical Clr. Sign:	Yes	245. Girder Depth 246a. Type of Ove	elav: NA					
Pourable		Adv. Warning Sign:	NO NA	b. Overlay Thick	ness: 0.00					
204. Type of Railing: SFP-1		e. Ivavigation Lights ?: Working/Not Working:	NA	c. Overlay Date:	01/01/1901					
205. Material Quantity: 194.00 208a Type of Abutment: Cantilevel	r	215. Overbass:	NTERSTATE	d. Ovly Depth C	hanged >1": N	N				
b. Type of Found.: Bears on	Natural Found.	221. Substr.Cond.(U/W):		247. Protective Sy	/stems: DPWR/Ep	boxy Coated Ba				
209. Type of Pier/Found.: 4	/ No	222. Fill Over RCB:								
No Piling/	Drilled Shaft	223. Appr.Slab/Rwy Cond.:	1							
210. Foundation Elev.: -1.00	-1.00	225. Paint Type/Ovrct:	MoisturCure(SC-MC-U)G	248. # Field Splice	es w/ Corrosion:					
-1.00 -1.00 -1.00 N/A			N/A 1993	249. Scour Crit. P 250. Headwall:						
211. Wear.Surf.Prot.Sys: Silane 226. Date Painted: 195			Grav	254. Thru Truss T	уре:					
Date Installed: 01/01/1901 227. Paint Color: Gi			Conventional Forming	257a. OkiePROS	Truck Routing: Ye	S				
233. Deck 1 offning. 234. School Bus Rte.: Ci			Current & Desired route	258. Plans w/Four	nd.in ODOT File:					
l⊨ ⊨		240. Appr. Rwy Type.:	Asphalt/Bituminous	259. Scour Eval. I 263. Interchange	at Intersection No					
└────┘└────┘└─		243. Grdr Spacing/No.:	1	264. Interstate Mil	epoint: 16	64.74				
		l								

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<u>NB</u> 15	<u>NBI No.:</u> <u>Stru</u> 15554 556		<u>ucture No.:</u> <u>Lo</u> 8 1146SX			<u>Local II</u> -1	<u>Suff. Rating:</u> 84.80					ND	
Inspection Da	ite: 9/27/18	Reported By:		Gary Hine	es								
Invoice No.:	GLH918	Inspected Wit	h:	Gary Rich	nardson		_						
BRIDGE NO	TES:												
7/28/2006 - TH	HE ANNEX WAS N	OTIFIED ON 7/28/	2006 ON	NEEDED PO	OSTING C	HANGES.							
THE 'SX' STR		OLS THE UNDER		NCE FOR TH	IIS PAIR C	OF BRIDGE	S.						
* THE ORIGIN	NAL BRIDGE HAS	SPREAD FOOTING	GS ON 3	OF THE 4 C	OLUMNS	AT THE BE	NTS*						
* 9/27/2018 - ⁻	TEMP RAIL REDU	CES CLEARANCE	TO 30' A	AT THIS TIME	*								
INSPECTIO	N NOTES:	9/27/18											
G Hines inspe	ection comments - 9	9/27/2018											
New asphalt a	approach on each e raffic under the bric	end since 2014 * Sa lae (2 lanes) * A roa	itisfactor	y side drains '	* Good slo ast is in nr	pewalls * T	here aren	't any trailin ail on the br	ig rails in p idge restri	lace * The	re is only	r	
			adway pi			ogress - ter	nporary re		luge restri				
ELEIVIENT C	Desc	ription	Unit	Total Otv	% 1	Otv 1	% 2	Otv 2	% 3	Otv 3	% 4	Otv 4	
12/4	Re Conc	rrete Deck	sq.ft	6,954.20	39%	2,734.20	60%	4,170.00	1%	50.00	0%	0.00	r l
FX -	Initial wear noted	in the wheel lanes (also see	SF #958). Th	ere are se	veral minor	spalls al	ong the nos	ing at ben	t #2 joint.	· · ·		
107 / 4	Steel Opn (Girder/Beam	ft	900.00	98%	880.00	2%	20.00	0%	0.00	0%	0.00	l
515 / 4	Steel Prote	ctive Coating	sq.ft	10,076.00	100%	0.00	0%	10,076.00	0%	0.00	0%	0.00	
	Good paint overall	- some old loss < 1	5% note	d on the 1st b	eam in sp	an #2. Minc	or chalking	started on	a few are	as.	<u> </u>		·
205 / 4	Re Con	c Column	each	8.00	38%	3.00	25%	2.00	38%	3.00	0%	0.00	
PX -	There is a heavy	vertical crack top to	bottom o	on the SW cor	mer of the	2nd column	n in bent #	2 - this colu	umn also I	nas a lighte	er horizonta	ıl 	
crac	k at the SE area. I ent Moderate dela	me 4th column in be	ent #1 na #3 in ber	as a neavy cra nt #2	ack with sp	alling. The		i columns ir	1 Dent #1 t	ootn nave a	a small lign	сгаск	
215 / 4	Re Conc	Abutment	ft	186.00	46%	81.00	51%	95.00	3%	10.00	0%	0.00	
PX -	Lots of light to mo	derate horizontal cr	acking o	n the East ab	utment ne	ar the seat	& some a	lso present	on the We	est. The pr	otective coa	ating	
is fai	iled (98%) in all are	eas due to joint see	bage.	3 652 00	100%	0.00	0%	3 652 00	0%	0.00	0%	0.00	
923/4	FX - Some defects	are present in the	coating o	n the bents (2	25%) & wid	despread de	eterioratio	n exists on	the abutm	ents	070	0.00	·
234 / 4	Re Conc	Pier Cap	ft	126.00	100%	126.00	0%	0.00	0%	0.00	0%	0.00	
Ther	re is some minor de	eterioration present	in the co	pating- ~ 50 so	q ft. Stainir	ng is eviden	t on bent	#2 below th	ne failed jo	int area.			
300 / 4	Strip Sea	I Exp Joint	ft	126.00	0%	0.00	100%	126.00	0%	0.00	0%	0.00	l
FX - soil t	build-up along the	shoulder areas with	exfoliati	out in most an	or started.	One spall i	#2. There	ing over bei	e gland fa nt #2 note	d. Standing	ant #2. Lots water alor	s or na at	
the b	pent #1 joint needs	drained.										.9	
310 / 4	Elastome	ric Bearing	each	36.00	100%	36.00	0%	0.00	0%	0.00	0%	0.00	
-1	Re Conc Ar	oproach Slab	sa.ft	2.00	0%	0.00	0%	0.00	100%	2.00	0%	0.00	
PX -	Each approach ha	as what appears to	be full-de	epth cracking	in 3-4 area	as (West ap	p is worst	t). No move	ment note	d at this tir	ne - still	0.00	
func	tioning as intended	I. The end armor is	damage	d on each sla	b.								
331 / 4 Sove	Re Conc B	ridge Railing	ft	367.50	76%	257.50	24%	110.00	0%	0.00	0%	0.00	
924 / 4	Conc Rai	I Prot Coat	(SF)	1,835.00	100%	0.00	0%	0.00	0%	0.00	0%	1,835.00	
-	FX - The rail coatir	ng is ineffective in m	lost area	s.	4 I		I_				· · · · · ·		
859 / 4	So	offit	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
Ther	re are numerous tri	nasverse cracks wit	h light ef	florescence ir	n each spa	n - approxi	mately 5%	6 of the tota	I area is a	ffected.	0%	0.00	
60574 Goo	d paint overall - so	me old inactive loss	< 15% i	noted on the 1	1st beam ii	n span #2. I	ight surfa	ace rust @ a	#1 at the E	ast abutm	ent. Minor	0.00	
defe	cts noted at the be	nt #2 ends. Minor c	halking s	started on a fe	ew other a	reas.							
870 / 4	Concrete	Wingwall	(EA)	4.00	100%	4.00	0%	0.00	0%	0.00	0%	0.00	
909 / 4	Pourable	Fix Jt.Seal	(LF)	126.00	0%	0.00	0%	0.00	0%	0.00	100%	126.00	
PX -	The sealant has fa	ailed in the wheel la	nes of ea	ach joint over	the abutm	ents with lo	ss of adh	esion startii	ng in some	other are	as.		
916 / 4	St.Bearing	g Assembly	(LF)	36.00	89%	32.00	11%	4.00	0%	0.00	0%	0.00	
Som	e surtace rust dev	eloping on a few ab	utment a	anchor bolts.	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
93074 PX -	There are some a	reas of the webs wi	hich appe	ear to have po	ossible fati	gue crackin	g due to	out-of-plane	bendina.	Areas are	at beams #	#3,	· · · · · · · · · · · · · · · · · · ·
5, &	6 (span #1) and tw	vo others are on bea	ams #1 8	& 5 in span #3	(2010 pho	- oto @ #5 - s	- span #1).	All are whe	re the dia	grams are	fastened to	the	İ
webs	s of the main beam	is. Needs checked	with die-	penetrate or n	nagnaflux	method soc	on. No cha	ange 10/20 ⁻	14. 2016 -	Lack of ac	lvancemen	t of	

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NE	NBI No.: Structure No.:		Loca	ID:						
1	5554 550	5568 1146SX				ND				
958 / 4	Concrete Cracking SF	(EA) 1.00	0% 0.00	0%	0.00	0% 0.0) 100%	1.00		
PX - Light to heavy transverse cracks of moderate to heavy density - some are only 3ft. to 4ft. apart. There is also some light to moderate										
pattern cracking - all need sealed soon. Approximately 60% of the total area is affected (2016 photo in span #3).										