# Illinois Department of Transportation

### **Routine Inspection Report**

SN: 016-0195	District: 1	Spa	ans: 12	Appr.	Spans	s: 0	Skew: 0		ADT: 6850	)	T	ruck Pct	: 5
ADT Un: 0	Aaint. Co: 1	6 - C	ook		Tw	/sp: 35 -	Thorntor	า	Statu	ıs: 5-0	Open,	tempora	ary measures
Facility Carried: IL 1 (	HALSTED S	ST)				Featu	ire Crosse	ed: I	RR - IHB				
Location: 1.1 M N IL 83	3 N	/lunic	ipality: F	Riverdal	е		Team/S	ub S	ection: 03	32/11:	3 Ir	sp/Rte:	500
Bridge Name:						Mate	rial & Typ	e: S	Steel Continu	ious /	/ Multi-	beam	
Insp. Intervals Routine:	12 Fi	actu	re Critical	: 0	l	Inderwat	ter: 0	:	Special: 3M		Elem	ent Leve	el: 24
90 - Inspection Date: 9	)/15/2023					90C - Te	emp (°F):	68		90	)B1 - I	n Depth:	
Is Delinquent:	Reason:												
90A - Agency Program	Manager: A	\deis	-Dahhan,	Ragha	d								
90A1 - Team Leader: \	/alentine, M	ike A	1		9	0A2 - In	spector:						
			90E	3 - Prev	vious	Inspecti	on Rema	arks					
2022) This inspection was of that the photos were taken. In-depth completed using bu- ltem 59: Due to Bm end 2 n 2020 LRI showed 44% bear Bearings at Pier 8, Span 9 has been installed near the	ucket truck an orth end over n end section (Beams 1, 2, 3	d pole P8 sp loss f 3, 4, 5	e camera. oan 8 side. or beam 8, 5, 8 and 10	Pier 8, 5 ): Rocker	Span 8. bearir	ngs are mo	oving indep	bende	nt of the top a	nd bott	tom be	aring plate	
					Res	sources							
<b>T</b> '			<b>T</b> (C .	0									
Time to Inspect (H:M):			Iraffic	Control									
				Insp	pecto	r's Appr	aisals						
				•		••							
50 Deals Canditians		/ New	Top: Nu	n hl na	rrow t	rone ero	oko thru o		nments	cooll		R CB la	
58 - Deck Condition:	<u>5</u>	5							catt shallow ach cracks &				
			rebar thr		nave	wonn. 00	onne. mann			x man		g 1001 0p	
59 - Superstructure Cor 60 - Substructure Cond			bm end a along wi percenta moderat damage under ar Bay 1: 3, Bay 2: h Bay 3: h Bay 7: E Bay 9: W Memo da analysis 2.	2 @ P8 th bm 9 iges. Br e rust ju to bm 1 e deteri /4" hole ole 8" lo ole 5.5" end of / end of ated 09 of the s	sp8 s @ P2 ms: Bo ust be l0 spa ioratin to we ong in long Diaph f Diaph f Diaph (03/20 structu	side 53% 2 sp2 sid ottom fla yond 5' f an 12 bot ig: est end o W end o in W end o in W end o h Buckle h Buckle D21 (due ure, the r	loss +/ le all have nge freck rom bm e tom flang f diaphrag f diaphrag d of Diaphra d of Diaphra d of Diaphra d (no crib to submit ecommer	Accce e loss led r ends ge. P gm (i agm nragm all ho bbing tted l nded	ording to 201 s greater tha ust,peeling, on downslop 8 Sp8 diaph found 5-26-2 n	15 LR in 10% black be sid ragms 2023 of end) 1) indi tings Severa	I bm : % but kening des mo s whic s whic during licate t for the al sm-	2 & 9 en do not g (soot) ov ost bms, th cribbir SF) hat due e supers	rer RR tracks, It impact ng is placed to LRI and tructure is a ed cracked
			0103.										
62 - Culvert Condition:	<u>N</u>	N											
	<u> 1N</u>	IN											
61 - Channel Condition:	<u>N</u>	N											
	<u>IN</u>	IN											
71 Motorwov Adagues		NI											
71 - Waterway Adequad	cy: <u>N</u>	N											
	-	<b>^</b>											
72 - Approach Rdwy Ali	gn: <u>8</u>	8											



111 - Pier Navig Protect	ion: <u>N</u>	N						
	Prev	New						
36A - Bridge Railing Ade	equacy: <u>3</u>	3						
		Prev New Prev New Prev New						
Approach Guardrail Ade	Approach Guardrail Adequacy: 36B - Transitions: N N 36C - Guardrail: <u>1</u> 1 36D - Ends: <u>1</u> 1							
Additional Inventory Data - To Be Verified During Routine Inspection								
4004 14/2010 0 1/201	Τ							
108A - Wearing Surface	Type: <u>A</u>	108B - Type of Membrane: <u>F</u> 108C - Deck Protection: <u>A</u>						
108D - Total Deck Thick	mess (In.):	<u>7.5</u>						
59A - Paint Date (Mo/Yr	): <u>06/20</u>	<u>18</u> 59B - Paint Type: <u>A</u> <u>Z</u> <u>-</u>						
59C - Utilities Attached:	<u>9</u> <u>N</u>	<u>l</u>						
113A - Scour Critical An	alysis Date:	<u>-</u> 113 - Scour Critical Rating: <u>-</u> 113B - Evaluation Method: <u>-</u>						
	70A2 - Sing	e Unit Vehicles:						
Woight Limit Posting:	70B2 - Com	pination Type 3S-1 (3 or 4 axles):						
Weight Limit Posting: 70C2 - Combination Type 3S-2 (5 or more axles):								
70D2 - One Truck at a Time:     0								

### 90B - Inspection Remarks



Item 59: Due to Bm end 2 north end over P8 span 8 side.

2020 LRI showed 44% beam end section loss for beam 8, Pier 8, Span 8.

Bearings at Pier 8, Span 9 (Beams 1, 2, 3, 4, 5, 8 and 10): Rocker bearings are moving independent of the top and bottom bearing plates. Cribbing has been installed near the bearings between the concrete cap and diaphragms near beams 1, 2, 3, 8 and 10 at Pier 8, span 9 side.

Item 60: Lg spalls to P8 col's 1, 2 & 5 w/col 1 having a total 10 exposed and heavily corroded column ties w/8 broken along w/ 5 vertical bars exposed and heavily corroded w/4 debonded; col 2 has a total of 5 exposed and heavily corroded column ties w/0 broken along w/3 exposed and heavily rusted vertical bars that are all bonded; col 3 has a total of 5 exposed and heavily corroded column ties w/0 broken along w/5 exposed and heavily rusted vertical bars w/2 debonded; col 4 has a total of 2 exposed and heavily rusted column ties w/0 broken along w/2 heavily corroded but bonded vertical bars; col 5 has a total of 7 heavily corroded column ties w/6 broken along with 3 heavily corroded vertical bars w/3 debonded. P2 col 1 has a total of 6 heavily corroded column ties w/0 broken along with 2 heavily corroded vertical bars that are still bonded.

Memo dated November 6, 2020: LL posting required. to remove the restriction, permanent repairs must be made at the following locations: Span 8, Beams 2 and 8, Pier 8.

According to the 2015 LRI section loss, beam 2 end at N over P8 span 8 side was measured to have 53%. Also, beam 9 end at N over P8 span 8 side along with beam 9 end at N over P2 span 2 side have loss of 18% & 10% respectively. Note: the LRI report completed in 2015 does not include the percent loss for each beam end detail. The 2018 inspection was based off IDOT's measurements from 2014 findings. Bill Vegrzyn from V3 was contacted 10-11-19 via email and he sent the percent loss for each detail. See attached 2015 LRI report. Percent loss quantities were inserted in orange by MV on 10-11-19.

In-depth inspection details: Bm ends at both abts & piers 2,5,8. Bm ends @ N abt along w/ piers 2,5,8 are accessible w/A52 and S abt use a bucket truck due to roadway traffic. In-depth completed in 2022. For Item 108C: the top mat of reinforcement is epoxy coated and the bottom mat is black bar.

All elements #ed & labeled per plans(S-N & W-E).

2023 LL signs still in place

	Signature	Date
Inspection Team Leader:	Mike Valentine	09/28/2023
Agency Program Manager:	Raghad Adeis-Dahhan	12/11/2023

Use Additional Forms as Needed



### **Element Level Inspection Report**

SN: 016-0195	District: 2	Spans:	12 A	Appr. Spa	ans: (	0	Skew: 0	ADT:	6850	Truck Pct: 5
ADT Un: 0 Maint. Co: 16 - Cook Tv				Twsp:	35 -	Thornton		Status: 5-0	Open, temporary measures	
Facility Carried: IL 1 (HALSTED ST)				F	Featu	re Crossed:	RR - II	ΙB		
Location: 1.1 M N IL 83 Municipality: Riverdale					Team/Sub S	Section	032/113	B Insp/Rte: 500		
Bridge Name:			ſ	Material & Type: Steel Continuous / Multi-beam						
Insp. Intervals Routine	e: 12	Fracture C	ritical:	0	Unde	erwat	er: 0	Specia	I: 3M	Element Level: 24
93C - Inspection Date	: 9/15/2023	}			93	3C6 -	Temp (°F):	68		
Is Delinquent:	Reason:									
90E - Agency Program Manager: Adeis-Dahhan, Raghad										
90E1 - Team Leader: Valentine, Mike A				ç	90E2	- Inspector:				
Resources										

Time to Inspect (H:M):

Traffic Control:

			Inspector	's Appra	aisals					
EN	EPN		Element Description	Env	Quantity	Unit	CS1	CS2	CS3	CS4
12		Reinforced	Concrete Deck	4	49420	SF	41620	3300	4500	0
		Remarks:	(1080) CS3 - scatt shallow spalls an Soffit: (1080) CS3 - numerous small rebar.							
520	10	Conorata D	(1120) CS2 - numerous hl leach crac	cks 4	49420	SF	49420	0	0	
520	12		einforcing Steel Protective System	<b>3</b>					0	0
			Top matt only.			~-		-		
521	12		rotective Coating	4	49420	SF	49420	0	0	0
		Remarks:								
107		Steel Open	Girder/Beam	4	7122	LF	6422	700	0	0
			just beyond 5' from bm ends on downslope sides most bms.	m fl freckled rust (1000), peeling (3420), blackening soot over RR tracks. Moderate rust (1000) st beyond 5' from bm						
8102	107	Steel Beam	/Girder/Stringer End Under Joint	4	80	EA	0	60	20	0
545	407		bm end 2 P8 sp8 side along w/bm 9 P8 sp8 having 18% and bm 9 been analyzed and were put back int	w/bm 9 P8 sp8 having 18% and bm 9 P2 sp2 side having 10% (The ends that have >10% have been analyzed and were put back into CS3)						
515	107		ctive Coating	4	71700	SF	0	63700	0	8000
		Remarks:	(3440) CS4 - Paint failure to most be Paint chalking throughout and blacke				webs and	flanges.	(3410)	CS2:
205		Reinforced	Concrete Column	3	55	EA	40	0	10	5
			(1080) (1090) CS4 Large spalls w/ h col 1; sevral mapped cracked (1130) several col's P2 ,5, 8.		np's to					g w/P2
210		Reinforced	Concrete Pier Wall	3	684	LF	394	40	250	0
			(1080)(1090) CS3 - Pier 8 very lg spa medium delams and an isolated spal edge & map cracking thruout.		(1130) CS2 -	numer	hl-narrow	vert crac		rizontal
215			Concrete Abutment	3	168	LF	116	12	40	0
		Remarks:	(1130) CS2 - Numerous hl-narrow ve to stems and caps (No undermining of					spalls w/(	(1090) e	exp rebar
234		Reinforced	Concrete Pier Cap	3	756	LF	636	75	45	0
			(1080)(1090) CS3 - Ig spalls with exp face along w/(1130)(1120) narrow cr horizontal and vertical cracking most	acking to	o P8 cap bot	bars P8 tom w/ru	SF and I	bottom; P . (1130) (	25 west e CS2 - hl-	end north narrow



#### Element Level Inspection Report Structure Number: 016-0195

					onuo			0 0100	
301	Pourable Jo	pint Seal	4	216	LF	0	0	0	216
	Remarks:	(2310)(2320) CS4 - N & S Abutments along w/(2370) sections of steel joint along N abt NB & SB							
306	Other Joint		4	144	LF	0	0	0	144
	Remarks:		10) CS4 - Neoprene at P5 and P8. Heavy leaking to all. (2360)(2330) ( al and Polymer concrete header missing/broken P8 and P5. (2330) joint and missing						
311	Movable Be		4	120	EA	0	57	63	0
		5, 8, noted misalignment to P5 & 8 bi side & brg 2 @ P2 sp 3 side not brg p 11,.							
313	Fixed Bear	ing	4	40	EA	0	40	0	0
	Remarks:	Piers 1, 3, 6 and 10: (1000) CS2 - Lt	surf rust	t.					
321	Reinforced	Concrete Approach Slab	4	10800	SF	9225	1100	475	0
	Remarks:		(1130) CS3 - NB N. appr exhibiting wide trans & diag cracking. (1080)) CS3 spalling along ongitudinal bonded jts all appr's (1130) CS2 - numerous hl transverse and scattered random						
330	Metal Bridg	e Railing	4	1436	LF	1430	0	6	0
	Remarks:	Impact (7000) damage to metal rail N	IB span	9			•	•	
331	Reinforced	Concrete Bridge Railing	4	1436	LF	0	1430	6	0
	Remarks:	(1130) CS2 - HL vert cracks, scatt h spall W wall top span 6.	oriz edg	e cracking to	NB & S	B to fron	it and bac	kfaces, li	t impact

	Signature	Date
Inspection Team Leader:	Mike Valentine	09/28/2023
Agency Program Manager:	Raghad Adeis-Dahhan	12/11/2023

Use Additional Forms as Needed



### Structure Number:

\_\_\_\_\_

\_\_\_\_\_

Location & Inventory Information

Facility Carried:

Location:

\_Feature Crossed: \_\_\_\_ Team Section:

Mat/Type/#Spans:

	*** <u>PROPOSED MAIN</u>	ITENANCE				
Repair Code	Repair Description	Date o Inspect	of Assigned-to ion Agency Code	Priority Code	Quantity	Inspector Initials
Code	Comments	mopeou		0000		<u> </u>
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		_				
	-					
				T		1
			I			
	-					
						1
						-
						1
		I				
GENCY CODE	S: Bridge Crew, Team Section, Contract Maintenance,	Day Labor, PR	ORITY CODES: H -	- High, M –	Medium, L	- Low
	Multi-Year Program, Other					

(Add new sheets as needed)

# Illinois Department of Transportation

# Bridge Maintenance Request Form

Structure Number:	016-0195	Prepared By:	M. Valentine
Facility / Feature:	IL. 1 (Halsted St.)/IHB RR	Date Prepared:	9-29-2023
Location:	1.1 miles north of IL. 83	Work Type:	Loose concrete removal
Team Section:	Harvey		
Inspection Section	South	Priority:	Medium

Work Description & E	stimated Duration	_ Need to remove	Need to remove apparent loose concrete from span 1 in bays 2 & 8. Check all bays.					
Estimated Duration:		1	Estimated Crew Size:	?				
Special Needs Equipm	ent or Material	Bucket truck						

<u>Special needs Equ</u>	inpinent or Material -	Bucket fluck	
Traffic Control -	Our crew for span 1.	Flagging needed	

## **Crew Information**

## **Sketches & Photos**

	Date :		
	Crew		Hours
s			
cord			
Red			
nel			
<b>Personnel Records</b>			
Pe			
	Quantity :		
	Inventor	y #	Hours
ds			
cor			
t Re			
nen			
<b>Equipment Records</b>			
Eq			