Inspector:	Banaszak,Ken	Structure	Number:	181492	3				
Inspection Date:	08/24/2022	Facility C	arried:	USR 422	2				
	Bric	ge Inspection Report							
Ohio Bridae I	nspection Si	ummary Report			CU	Y-0(0422-18	304L (1814 [,]	923)
		<u></u>		_					,
2: DistrictDistr 72928 ict 12	s - SOLON (CUY cou	inty)	5A: Inv	ventory Ro	ute	1	0042	2	
21: Major Maint A/B	01 - State Highv	vay Agency /	7: Fac	ility On	USR 4	122			
225 Routine Main A/	B 01 - State Highv	vay Agency /	6: Fea	iture Ints	SR 91	SOM	CENTER I	RD	
221 Inspection A/B	01 - State Highv	vay Agency /	9: Loc	ation	5.5 MI	E I-2	71		
220: Inv. Location	DISTRICT 12		Lat,	Lon	41.394	4981		,-81.437908	
	Conditio	n				Stru	cture Ty	pe	
58: Deck	5 - Fair Co	ndition	L3	Bridge T	/ne 4	- Ste	el continuo		
58.01 Wearing Su	rface 6 - Satisfac	tory (1-10% distress)	10	. Bhago i j	0	2 - St	ringer/Multi	-beam or Girder	
58 02 Joint	6- Satisfact	ory (isolated leaking)			N	I- Not	Applicable		
59: Superstructure	7 - Good C	ondition	45	: Spans M	ain / Ar	oproad	h = 4	/ 0	
59.01 Paint & PCS	6 4 - Poor PC	S (15-20% corr.)	10)7: Deck Tv	/ne		1 - Concre	te Cast-in-Place	
60: Substructure	4 - Poor Co	ondition	40	8: Compos	site Dec	ck	N - Non-co	omposite Construc	ction
61: Channel	N		41	4A Joint T	vpe 1		2 - Sliding	Metal Plate Angle	3
61.01 Scour	N - Not Ap	olicable	41	4B: Joint T	\overline{v} vpe 2		N - None	inotal i lato i ligio	
62: Culverts	N - Not Ap	olicable	10	8A: Wearin	na Surf	ace	2 - Integral	Concrete (separa	ate
					.g		non-modifi added to s	ed layer of concre tructural deck)	ete
67.01 GA	4						1- Super P	lasticized	
	Appraisa	l I	42	2: WS Date	е		07/01/1975	5	
Sufficiency Rating	60.6	SD/FO 1 - SD	42	23: WS Thio	ck (in)		2.0		
36: Rail, Tr, Gd, Terr	n Std 1 1	1 1	48	32: Protecti	ve Coa	ting	3 - Paint S	ystem A	
72: Approach Alignm	ent 8 - Equal to	present desirable criteria	48 a	33: PCS Da	ate		01/01/1975	5	
113: Scour Critical	N - Not ove	r waterwav	45	53: Bearing	Type 1	1	2 - Rocker	s & Bolsters	
71: Waterway Adequ	acv N - Not App	licable	45	5: Bearing	Type 2	2	N - None		
	Geometri	C	⁵²	28: Foundn	: Abut I	-wd	2 - Cast-in	-Place Reinforced	l ator)
	Geometri		53	3: Foundn	: Abut F	Rear	2 - Cast-in-	-Place reinforced	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
48: Max Span Length	n (ft)	51.0					Concrete F	Piles (Other diame	eter)
49: Structure Length	(ft)	176.0	53	86: Foundn	: Pier 1		2 - Cast-in Concrete F	-Place Reinforced Piles (Other diame	l eter)
52: Deck Width, Out-	To-Out (ft)	58.9	53	89: Foundn	: Pier 2		0 - Other		
424: Deck Area (sf)		10366.4	Г			Age	and Serv	ice	
32: Appr Roadway W	/idth (ft)	60.0	27	': Year Buil	t/ 106 F	Rehat	o 1975	/ 0000	
51: Road Width, Curl	b-Curb (ft)	54.8	42	A: Service	On		1 - Highw	vay	
50A: Curb/SW Width	: Left (ft)	0	42	B: Service	Under		1 - Highw pedestria	vay, with or w/out	
50A: Curb/SW Width	: Right (ft)	0	28	BA: Lanes c	on		03		
34: Skew (deg)		6	28	B: Lanes l	Jnder		05		
33: Bridge Median		0 - No median	19): Bypass L	.ength		1		
54B: Min Vert Under	clearance (ft)	14.69	29): ADT			14583		
336A: Min Vert Clrnc	e IR Cardinal (ft)	99	10)9: % Truck	ks (%)		7		
336B: Min V Clr IR N	on-Cardinal (ft)	0	Г			Insp	ections		7
578: Culvert Length ((ft)	0	L				Months		1
	Load Posti	ng	90): Routine I	nsp.		12	08/24/2022	
41: Op/Post/Closed	A - Open	-	92	A: FCM In	sp.	Ν	0		
70: Posting 5 - Eo	ual to or above leas	lloads	92	B: Dive Ins	sp.	Ν	0		
70.01. Data	and to of above lega	10003	92	C: Special	Insp.	Ν	0		
70.01. Date 70.02. Sign Tung			92	D: UBIT In	sp.	Ν	0		
ro.oz. orgin rype			92	E: Drone Ir	nsp.	Ν	0		

Inspector:	Banaszak,Ken	Structure Number:	1814923
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734: Percent Legal (%)	150	Inspector	
704: Analysis Date	07/01/1975	Inspector	Banaszak,Ken
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.		

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	10370	sq. ft.	6645	3100	625	0
	CS 2 - Cracks.	Some leach	ning.	1			
	CS 3 - Wet/mot delams. Shallow	tled areas, v spalls alo	some w ng north	ith stalactites edge under	, approximat light pole ba	ely 150 SF o se.	f spalls and
510-Wearing Surfaces		9651	sq. ft.	8421	1200	15	15
	CS 2 - Transverse cracks, fine map cracks, minor delams, concrete patches.CS 3 - Failing concrete patch areas. Some wide cracks.CS 4 - Asphalt patches.						
107-Steel Open Girder/Beam	3 - Mod.	1232	ft.	977	225	30	0
	 CS 2 - Surface rust. Scrapes & minor gouges in lower flange of left fascia. Repaired area to left fascia over NB lanes. CS 3 - Heavier rust along lower flanges. Rusting section loss near beam ends. Section loss as much as 1/16" to lower flange of Beam 4 near bearing at rear abutment. Lower flange of left fascia bent up as much as 1/4" over NB lane #1 & SB lane #2. 						
515-Steel Protective Coating		9871	sq. ft.	0	3559	6200	112
	CS 2 - Faded pa CS 3 - Surface CS 4 - Paint fail	aint. rust and pe lure at bean	eling. n ends.				
205-Reinforced Concrete Column	3 - Mod.	12	each	2	2	5	3
	CS 2 - P1:C4, 3 P3:C4, 3 CS 3 - P1:C2, 1 P2:C1, 4 P2:C2, 2 P2:C2, 3 P2:C4, 8 CS 4 - P3:C1, 5 P3:C2, 1 P3:C3, 1	SqFt Delai SqFt Delai SqFt of d SqFt of d 2 SqFt of d 0 SqFt of d SqFt of de 2 SqFt of de 2 SqFt of de 2 SqFt of d 1 SqFt of d	m. elams. elams. elams a elams. lams an elams a elams a	nd 2 SqFt of d 8 SqFt of s nd 20 SqFt c nd 20 SqFt c	spalls. spalls with 4+ of spalls with of spalls with	exposed reb 4+ exposed r 4+ exposed r	par. rebar. rebar.
215-Reinforced Concrete Abutment	3 - Mod.	119	ft.	110	8	1	0
234-Reinforced Concrete Pier Cap	CS 2 - Cracks. CS 3 - Spall wit Note: minor dirt 3 - Mod.	Rust stains. h exposed i & debris or 178	rebar in n abutm ft.	forward bay ent seats. 164	1. 8	6	0
	CS 2 - A few cra CS 3 - P1 cap h P2 cap h P3 cap h	acks. nas 2 small nas a minor nas a 4 ft ar	spalls th spall be ea of de	nat have bee low beam #2 lamination.	n sealed. 2.		

Inspector:	Banaszak,Ken	Structure Number:	1814923
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Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
303-Assembly Joint with Seal	3 - Mod.	118	ft.	107	11	0	0
	CS 2 - Some m	issing & dai	maged s	seal at rear.	Sealed pulled	l out at forwa	rd-left.
311-Movable Bearing	3 - Mod.	28	each	0	14	14	0
	CS 2 - Surface rust. CS 3 - Areas of pack rust to abutment bearings. Forward abutment bearings 3 and 6 tipped outward to designed travel limit at 72° F.						
313-Fixed Bearing	3 - Mod.	7	each	0	7	0	0
	CS 2 - Surface	rust.					
321-Reinforced Concrete Approach Slab	3 - Mod.	3000	sq. ft.	2725	100	155	20
	CS 2 - Cracks. CS 3 - Cracks a CS 4 - Asphalt	as wide as 1 patches in L	/8". Sor .ane #1	ne areas of b at both forwa	preakup. ard and rear.		
331-Reinforced Concrete Bridge Railing	3 - Mod.	352	ft.	212	123	17	0
	CS 2 - Horizont CS 3 - Delams rail light pole ba Note: Broken pu	al cracks, o & spall with ise. Collisio ull box cove	ther cra 360° re n scrape r below	cks to right ra bar exposure es. missing light	ail. A few rus e on left rail. : pole on left	t stains. Scal Spalling to o rail.	ing. utside left
815-Drainage	3 - Mod.	9	each	3	6	0	0
	CS 2 - Partially	plugged sc	uppers.				
830-Abutment Backwall	3 - Mod.	119	ft.	99	12	8	0
	CS 2 - A few cra CS 3 - Spalls ar	acks. nd delams t	o forwa	rd.			

Inspecto	or:	Banaszak,Ken		Struc	ture Number:	1814923		
Inspecti	ion Date:	08/24/2022		Facili	ty Carried:	USR 422		
			Bridge Inspe	ection Report				
ODOT District:	District 12		C	UY-00422	-1804L_(18	14923)	Date Built:	07/01/1975
Major Maint:	01 - State Highwa	ay Agency	Facility Carried:	USR 422	Traffic O	n: 1 - Highway	Rehab Date	:
Routine Maint:	01 - State Highwa	ay Agency	Feature Inters:	SR 91 SOM CENTE	R RD Traffic U	nder: 1 - Highway, with or w/out	Insp. 0	1 - State Highway Agency
FIPS Code:	72928 - SOLON	(CUY county)		Location: DISTRIC	T 12 5.5	MI E I-271	Insp Boon B:	
	In	spector Bar	naszak,Ken	Inspection Date	08/24/2022	Reviewer Seif, Youssef	Kesp B.	
			Inspector	Comment	s - Deck a	nd Approach		

<u>Deck</u>

Floor/Slab (SF)

Spalls forming over NB traffic in bay 1 over WB entrance ramp lane, and bay 4 over lane 2, and over SB #1 lane, bay 1.

Drainage

Downspouts have rusting section loss.

Approach

Approach Wearing Surface (EA)

New at 2022 inspection.

Approach Guardrail (EA)

Spall to outside of forward-right concrete approach rail. Minor collision damage throughout.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Surface rust. Areas of heavy rusting section loss to endframes. Rear endframe #4 rust severed. Forward endframe #2 almost rust severed. Broken endframe gusset plate welds in forward bays 2 & 4.

Fatigue (LF)

Welded cover plates at center pier.

Substructure

Slope Protection (EA)

Uneven settlement. Rear concrete is undermined below bay 1 & breaking up along drainage trough. Forward concrete has slid near bottom of slope with areas of buckling.

Inspector:BanaInspection Date:08/2

Banaszak,Ken 08/24/2022 Structure Number:1814923Facility Carried:USR 422

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Culvert

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical

Inspector: Ke	en Banaszak	Structure Number:	1814923
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Pictures