Inspector:	Miller,Jason 03/28/2023	Structure Number:	1814745 USR 422
Ohio Bridge Insp	ection Summary Report	i donity carried	CIIV-00422-1390R (1814745)
2: DistrictDistr 80990 - WA	RRENSVILLE HTS (CUY county)	5A: Inventory Rou	ite 1 00422
12 21: Major Maint A/B 0 225 Routine Main A/B 0 221 Inspection A/B 0 220: Inv. Location DISTE	1 - State Highway Agency / 1 - State Highway Agency / 1 - State Highway Agency / RICT 12	7: Facility On 6: Feature Ints 9: Location Lat. Lon	USR 422 SR 175 (RICHMOND RD) OVER SR 175 41.42940381.497881
	Condition		Structure Type
58: Deck 58.01 Wearing Surface 58.02 Joint 59: Superstructure 59.01 Paint & PCS 60: Substructure 61: Channel 61.01 Scour 62: Culverts 67.01 GA Sufficiency Rating 36: Rail, Tr, Gd, Term Std 72: Approach Alignment 113: Scour Critical 71: Waterway Adequacy 48: Max Span Length (ft)	6 - Satisfactory Condition 7 - Good (1% distress) N- Not Applicable 7 - Good Condition 4 - Poor PCS (15-20% corr.) 5 - Fair Condition N N - Not Applicable N N - Not Applicable N - Not Applicable S 5 Appraisal 68.0 SD/FO 2 - FO 1 1 8 - Equal to present desirable criteria N - Not Applicable Water of the state of the stat	43: Bridge Tyr 43: Bridge Tyr 43: Spans Ma 107: Deck Tyr 408: Composi 414A Joint Ty 414B: Joint Ty 108A: Wearin 422: WS Date 423: WS Thic 482: Protectiv 483: PCS Date 453: Bearing 528: Foundn: 533: Foundn: 536: Foundn:	pe 4 - Steel continuous 02 - Stringer/Multi-beam or Girder N- Not Applicable iin / Approach 3 / 0 De 1 - Concrete Cast-in-Place ite Deck U - Unknown pe 1 N - None g Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 2 - MicroSilica 07/01/2002 k (in) 1.2 re Coating 0 - Other Paint te 01/01/1992 Type 1 0 - Other Type 2 N - None Abut Fwd U - Unknown Abut Rear U - Unknown
49: Structure Length (ft) 52: Deck Width, Out-To-O	145.0 ut (ft) 30.4	539: Foundn:	Pier 2 U - Unknown
424: Deck Area (sf)	4408		Age and Service
32: Appr Roadway Width (51: Road Width, Curb-Curl 50A: Curb/SW Width: Left	it) 16.0 o (ft) 26.0 (ft) 0	27: Year Built 42A: Service 42B: Service	/ 106 Rehab 1971 / 0000 On 1 - Highway Under 1 - Highway, with or w/out pedestrian
50A: Curb/SW Width: Righ 34: Skew (deg) 33: Bridge Median 54B: Min Vert Undercleara 336A: Min Vert CIrnce IR C 336B: Min V CIr IR Non-Ca 578: Culvert Length (ft)	t (ft) 0 18 0 - No median nce (ft) 16.08 Cardinal (ft) 99 ardinal (ft) 0 0	28A: Lanes or 28B: Lanes U 19: Bypass Le 29: ADT 109: % Trucks	n 02 nder 02 ength 0 8038 s (%) 3 Inspections
	Load Posting	90: Routine In	Isp. 12 03/28/2023
41: Op/Post/Closed 70: Posting 5 - Equal to 70.01: Date 70.02: Sign Type 734: Percent Legal (%) 704: Analysis Date 63: Analysis Method	A - Open or above legal loads 150 07/01/1973 7 - Allowable Stress (AS) rating reporte by rating factor (RF) method using MS loading.	92A: FCM Ins 92B: Dive Ins 92C: Special 92D: UBIT Ins 92E: Drone In Inspector M ed 18	p. N 0 p. N 0 Insp. N 0 sp. N 0 sp. N 0 Iiller,Jason

Inspector:	Miller, Jason	Structure Number:	1814745
Inspection Date:	03/28/2023	Facility Carried:	USR 422

		1						
	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12-Reinforced Concrete Deck	3 - Mod.	4413	sq. ft.	sq. ft. 3798 600 15				
	CS2 - Cracks, some leaching. Delams.							
	CS3 - Haunch spalls. Spalls with exposed rebar.							
510-Wearing Surfaces	earing Surfaces 3770 sq. ft. 3454 300 0							
	CS2 - Cracks.							
	CS4 - Asphalt patches along forward and rear approaches.							
107-Steel Open Girder/Beam	3 - Mod.	580	ft.	278	290	12	0	
	CS2 - Surface rust, mainly along lower flanges. Small gouges/scrapes to right fascia over SB lane #1.						right fascia	
	CS3 - Rusting s	section loss	at both	embedded b	eam ends 2,	3 & 4.		
515-Steel Protective Coating	000 5 1 10	5044	sq. ft.	655	4244	130	15	
	CS2 - Paded & CS3 - Surface r CS4 - Spots of	ust, mainly bare rusted	along lo metal.	ower flanges.				
205-Reinforced Concrete Column	3 - Mod.	6	each	0	2	1	3	
	 CS3 - P1C2- ~42 SF delam. CS4 - P1C3- ~8 SF delam, 16 SF spalls with 4+ bars of rebar exposed. P2C2- ~10 SF delam, 23 SF spalls with 4+ bars of rebar exposed. P2C3- ~4 SF delam, 11 SF spalls with 4+ bars of rebar exposed. 							
521-Concrete Protective Coating		904	sq. ft.	0	0	0	904	
	CS4- Not effect	ive.						
215-Reinforced Concrete Abutment	3 - Mod.	64	ft.	46	6	12	0	
	CS2 - Leaching cracks. rust stains, evidence of water leaking through construction joints with areas of efflorescence. CS3 - Spall with 360° rebar exposure and horizontal crack with efflorescent buildup at forward-right.						nstruction ent buildup	
521-Concrete Protective Coating		128	sq. ft.	118	0	0	10	
	CS4- Not effect	ive.						
234-Reinforced Concrete Pier Cap	3 - Mod.	64	ft.	22	35	7	0	
	CS2 - Cracks, delams to both sides of P1 cap. CS3 - Spall with exposed rebar at P2 cap above C1.							
521-Concrete Protective Coating		576	sq. ft.	0	0	0	576	
	CS4- Not effect	ive.		2			-	
310-Elastomeric Bearing	3 - Mod.	8	each	0	8	0	0	
	CS2 - Rusting t	o sole plate	s.					
312-Enclosed/Concealed Bearing	3 - Mod.	8	each	0	8	0	0	
5	CS2 - Evidence of rusting bearings behind diaphragms.							

Inspector:	Miller, Jason	Structure Number:	1814745
Inspection Date:	03/28/2023	Facility Carried:	USR 422

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
321-Reinforced Concrete Approach Slab	3 - Mod.	800 sq. ft. 570 120		120	0	110		
	CS2 - Cracks. Diagonal crack to forward slab.							
	CS4 - Asphalt repairs to both slabs. Heaving pavement and concrete break up in forward-right berm. Large spalls at rear.							
331-Reinforced Concrete Bridge Railing	3 - Mod. 290 ft. 116 145 29 0							
	CS2 - Vertical and map cracking. CS3 - Small spall to inside left rail. Spalls along outside edge of left rail, some with exposed rebar. Spalls to outside of right rail. Map cracking and spalls at rear-right rail. Rear-right and forward-left railing transitions have spalled inside corners and are tipped out 1.5".							
521-Concrete Protective Coating	ig 2030 sq. ft. 0 0 0 2					2030		
	CS4- Not effect	ive.						
815-Drainage	3 - Mod.	3	each	3	0	0	0	
	Heavy dirt along both railings.							
840-Approach Slab: Termination or Joint	3 - Mod.	52	ft.	26	26	0	0	
	CS2 - Cracks at rear, mostly sealed.							

Inspector: Miller, Jaso		son	Structure Number: 1814745		1814745						
Inspection Date: (03/28/2023		Facility Carried: USR 422			USR 422				
ODOT District: District 12				UY-00422-1390R_(1814745)				Date Buil	t:	07/01/1971	
Major Maint:	01 - State Highway Ag	ency	Facility Carried:	USR 422		Traffic On:	1 - Highway		Rehab D	ate:	
Routine Maint:	01 - State Highway Ag	ency	Feature Inters:	SR 175 (RICHMON	D RD)	Traffic Under:	: 1 - Highway, v	with or w/out	Insp. Resp.A.	01 - \$	State Highway Agency
FIPS Code:	80990 - WARRENSVI	LLE HTS (CU'	Y county)	Location: DISTRIC	CT 12	OVER S	SR 175		Insp Baan Di		
	Inspect	or Mille	r,Jason	Inspection Date	03/28/2023	; I	Reviewer Seif,	Youssef	Kesp B:		
				•			A	I.			

Inspector Comments - Deck and Approach

<u>Deck</u>

Approach

Approach Wearing Surface

Cracks, mostly sealed at rear. A few cracks at forward.

Approach Embankment

5' wide by 2' deep erosion to forward-left embankment (water running down from median of route 422).

Approach Guardrail

Minor collision damage to approach guardrail on both sides. Forward-left & rear-right concrete rails tip out 1.5". Wide cracks to rear right approach railing. Spall to inside of forward left approach railing.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Surface rust.

Fatigue

Welded cover plates at piers.

Utilities

Damaged conduit on P2C1. Rusting to under bridge conduit. Some broken underdeck light covers.

Substructure

Slope Protection

Cracks, minor uneven settlement. 2' deep erosion channel at forward-left slope. Undermining of CSP at bottom left corner.

<u>Culvert</u>

Inspector: Inspection Date: Miller, Jason 03/28/2023

Structure Number: 1814745 Facility Carried:

USR 422

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical