Ohio Bridge Inspection Summary Report

CUY-00422-1390R (1814745)

2: DistrictDistr 80990 - WA ict 12	RRENSVILLE HTS (CUY county)	5A: Inventory Route 1	00422				
	I - State Highway Agency /	7: Facility On USR 422					
=	I - State Highway Agency /		ICHMOND RD)				
	I - State Highway Agency /	9: Location OVER SR	,				
220: Inv. Location DISTR	RICT 12	Lat, Lon 41.429403	,-81.497881				
	Condition	Str	ructure Type				
58: Deck	6 - Satisfactory Condition	43: Bridge Type 4 - St	eel continuous				
58.01 Wearing Surface	7 - Good (1% distress)	02 - 5	Stringer/Multi-beam or Girder				
58.02 Joint	N- Not Applicable	N- No	ot Applicable				
59: Superstructure	7 - Good Condition	45: Spans Main / Approa	ach 3 / 0				
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	1 - Concrete Cast-in-Place				
60: Substructure	5 - Fair Condition	408: Composite Deck	U - Unknown				
61: Channel	N	414A Joint Type 1	N - None				
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None				
62: Culverts	N - Not Applicable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)				
67.01 GA	5	400 MO D 4	2- MicroSilica				
	Appraisal	422: WS Date	07/01/2002				
Sufficiency Rating	68.0 SD/FO 2 - FO	423: WS Thick (in)	1.2				
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	0 - Other Paint				
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	01/01/1992				
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	0 - Other				
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None				
Geometric		528: Foundn: Abut Fwd U - Unknown 533: Foundn: Abut Rear U - Unknown					
48: Max Span Length (ft)	71.0	536: Foundn: Pier 1	U - Unknown				
49: Structure Length (ft)	145.0	539: Foundn: Pier 2	U - Unknown				
52: Deck Width, Out-To-Ou		559. I Guildii. Fiel 2	0 - OTIKITOWIT				
424: Deck Area (sf) 4408		Age and Service					
32: Appr Roadway Width (ft) 16.0		27: Year Built/ 106 Reha	ab 1971 / 0000				
51: Road Width, Curb-Curb (ft) 26.0		42A: Service On	1 - Highway				
50A: Curb/SW Width: Left (ft) 0		42B: Service Under 1 - Highway, with or w/out					
	· •		pedestrian				
50A: Curb/SW Width: Righ	t (ft) O	28A: Lanes on	02				
34: Skew (deg)	18	28B: Lanes Under	02				
33: Bridge Median	0 - No median	19: Bypass Length	0				
54B: Min Vert Undercleara	• •	29: ADT	8038				
336A: Min Vert Clrnce IR C	• •	109: % Trucks (%)	3				
336B: Min V Clr IR Non-Ca	rdinal (ft) 0	Ins	pections				
578: Culvert Length (ft)	0		Months				
	Load Posting	90: Routine Insp.	12 03/14/2022				
41: Op/Post/Closed	A - Open	92A: FCM Insp. N	0				
· · · · · · · · · · · · · · · · · · ·	or above legal loads	92B: Dive Insp. N	0				
70.01: Date	<u>-</u>	92C: Special Insp. N	0				
70.02: Sign Type		92D: UBIT Insp. N	0				
734: Percent Legal (%)	150	92E: Drone Insp. N	0				
704: Analysis Date	07/01/1973	Inspector Persanyi,Ar	ndrea				
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.	i e					

Inspector:Andrea PersanyiStructure Number:1814745Inspection Date:03/14/2022Facility Carried:USR 422

Bridge Inspection Report

Element Inspection

	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.	3926	442	45	0
	CS2- Cracks, some leaching. delams						
	CS3- Spalls, mottled areas.						
510 - Wearing Surfaces		3770	sq. ft.	3555	188	15	12
	CS2- Cracks						
	CS4- Aspha					I	I
107 - Steel Open Girder/Beam		580	ft.	278	290	12	0
	CS2- Surface rust, mainly along lower flanges. CS3- Rusting section loss at some embedded beam ends, small gouges/scrapes to right fascia over SB lane #1.						
515 - Steel Protective Coating	000 5 1 1	5044	sq. ft.	655	4244	130	15
	CS2- Faded & peeling areas. CS3- Surface rust, mainly along lower flanges, some PCS failure. CS4- Spots of bare rusted metal						
205 - Reinforced Concrete Column	3 - Mod.	6	each	0	2	1	3
	CS2- P1C1- 3 SF delam P2C1- 3 SF delam, 3 SF spall CS3- P1C2- 42 SF delam CS4- P1C3- 4 SF delam, 9 SF spalled with 4+ bars of rebar exposed P2C2- 4 SF delam, 18 SF spalled with 4+ bars of rebar exposed P2C3- 4 SF delam, 11 SF spalled with 4+ bars of rebar exposed						
215 - Reinforced Concrete Abutment		64	ft.	46	6	12	0
	CS2- Leaching cracks. rust stains, evidence of water leaking thru construction joints with areas of efflorescence. CS3- Spall with 360° rebar exposure at forward-right.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	64	ft.	29	35	0	0
	CS2- Cracks	s, delams t	o both	sides of P	І сар.		
310 - Elastomeric Bearing	3 - Mod.	8	each	8	0	0	0
312 - Enclosed/Concealed Bearing		8	each	8	0	0	0
321 - Reinforced Concrete Approach Slab		800	sq. ft.	640	120	0	40
	CS2- Cracks CS4- Asphal forward-right	lt repairs to					o in

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Element Inspection

331 - Reinforced Concrete Bridge Railing	3 - Mod.	290	ft.	116	145	29	0	
	CS2- Many vertical leached cracks.							
	CS3- Small spall to inside left rail, many spalls along outside edge of left rail, other outside spalls, some with exposed rebar.							
815 - Drainage	3 - Mod.	3	each	3	0	0	0	
840 - Approach Slab: Termination or Joint	3 - Mod.	52	ft.	0	26	26	0	
	CS2- Cracking							
	CS3- Wide cracks, and breaking up asphalt areas.							

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Major Maint: 01 - State Highway Agency

ODOT District: District 12

Facility Carried: USR 422

Traffic On: 1 - Highway Traffic Under: 1 - Highway, with or w/out

Date Built: Rehab Date:

01 - State Highway Agency

07/01/1971

Resp A: Insp Resp B:

Routine Maint: 01 - State Highway Agency FIPS Code: 80990 - WARRENSVILLE HTS (CUY county)

Feature Inters:

Persanyi, Andrea

SR 175 (RICHMOND RD) Location: DISTRICT 12

pedestrian OVER SR 175 Inspection Date 03/14/2022 Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

Inspector

Many cracks, asphalt break up, rough asphalt patches and spalls at forward...

Approach Embankment (EA)

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

Approach Guardrail (EA)

Forward-left & rear-left concrete rails tip out 1".

Signs (EA)

Rear-left bridge end marker missing.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

Diaphragm/X-Frames (EA)

Surface rust.

Fatigue (LF)

Welded cover plates at piers.

Utilities (LF)

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

Substructure

Slope Protection (EA)

Cracks, minor uneven settlement. Forward slope has slid 3" & is undermined as much as 10" at bottom left corner. Areas of vegetation growing thru CSP.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical