

Ohio Bridge Inspection Summary Report

CUY-00422-1390L (1814788)

2: District 80990 - WARRENSVILLE HTS (CUY county)
 ict
 12

5A: Inventory Route 1 00422

21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 01 - State Highway Agency /
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

7: Facility On USR 422
 6: Feature Ints SR 175(02.35)RICHMOND RD
 9: Location 0.4 MI. EAST OF JCT I-271
 Lat, Lon 41.429778 , -81.497864

Condition		Structure Type	
58: Deck	6 - Satisfactory Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	6 - Satisfactory (1-10% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	6 - Satisfactory 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 6

Appraisal	
Sufficiency Rating	98.0 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	1 1 1 1
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	N - Not over waterway
71: Waterway Adequacy	N - Not Applicable

422: WS Date	10/01/1999
423: WS Thick (in)	1.5
482: Protective Coating	6 - Galvanized
483: PCS Date	01/01/1992
453: Bearing Type 1	0 - Other
455: Bearing Type 2	4 - Elastomeric (Plain)
528: Foundn: Abut Fwd	U - Unknown
533: Foundn: Abut Rear	U - Unknown
536: Foundn: Pier 1	U - Unknown
539: Foundn: Pier 2	U - Unknown

Geometric	
48: Max Span Length (ft)	73.0
49: Structure Length (ft)	153.0
52: Deck Width, Out-To-Out (ft)	66.0
424: Deck Area (sf)	10098
32: Appr Roadway Width (ft)	44.0
51: Road Width, Curb-Curb (ft)	63.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	17
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	15.92
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

Age and Service	
27: Year Built/ 106 Rehab	1971 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	02
19: Bypass Length	0
29: ADT	8038
109: % Trucks (%)	3

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	150
704: Analysis Date	07/01/1973
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	Months	
90: Routine Insp.	12	03/14/2022
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	0
92E: Drone Insp.	N	0
Inspector	Persanyi, Andrea	

Inspector: Andrea Persanyi
 Inspection Date: 03/14/2022

Structure Number: 1814788
 Facility 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.	10098	sq. ft.	9033	1010	55	0
	CS2- Cracks, some leaching, some delaminated.						
	CS3- Mottled areas, some haunch spalls.						
510 - Wearing Surfaces		9639	sq. ft.	5789	3850	0	0
	CS2- Many cracks, epoxy patches at rear in lanes 2 and 3.						
107 - Steel Open Girder/Beam	3 - Mod.	1384	ft.	664	692	28	0
	CS2- Surface rust, mainly along lower flanges.						
	CS3- Rusting section loss at some embedded beam ends.						
515 - Steel Protective Coating		12580	sq. ft.	0	11190	1350	40
	CS2- Some peeling. faded areas.						
	CS3- Surface rust, mainly along lower flanges.						
	CS4- Some pcs failure.						
205 - Reinforced Concrete Column	3 - Mod.	12	each	2	6	3	1
	CS2- P1C1- 7 SF delam P1C2- 4 SF delam P2C1- 2 SF delam P2C2- 4 SF delam P2C4- 4 SF delam P2C6- 4 SF delam						
	CS3- P1C3- 12 SF delam P1C6- 15 SF delam, 3 SF spall P2C3- 14 SF delam, 4 SF spall						
	CS4- P2C5- 8 SF delam, 7 SF spalled with 4+ bars of rebar exposed						
215 - Reinforced Concrete Abutment	3 - Mod.	138	ft.	83	41	14	0
	CS2- Leaching cracks, rust stains, evidence of water leaking thru construction joints with areas of efflorescence. Delams						
	CS3- Spalls						
234 - Reinforced Concrete Pier Cap	3 - Mod.	138	ft.	132	6	0	0
	CS2- Cracks throughout						
310 - Elastomeric Bearing	3 - Mod.	18	each	18	0	0	0
	CS 2: surface rust						
312 - Enclosed/Concealed Bearing	3 - Mod.	18	each	18	0	0	0

Inspector: Andrea Persanyi
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Element Inspection

321 - Reinforced Concrete Approach Slab	3 - Mod.	2200	sq. ft.	1365	770	55	10
	CS2- Cracks and concrete patches. CS3- Spalls and some concrete break up. CS4- Failed patch						
331 - Reinforced Concrete Bridge Railing	3 - Mod.	306	ft.	113	153	40	0
	CS2- Vertical & horizontal cracks, rust stains, some delams. CS3- Spalls along outside rails (some with exposed rebar).						
815 - Drainage	3 - Mod.	6	each	6	0	0	0
840 - Approach Slab: Termination or Joint	3 - Mod.	0	ft.	0	0	0	0

ODOT District: District 12

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Date Built: 07/01/1971

Major Maint: 01 - State Highway Agency

Facility Carried: USR 422

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: SR 175(02.35)RICHMOND RD

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

Insp. 01 - State Highway Agency

FIPS Code: 80990 - WARRENSVILLE HTS (CUY county)

Location: DISTRICT 12

0.4 MI. EAST OF JCT I-271

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 03/14/2022

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

Cracks, areas of asphalt break up and small pothole along forward slab.

Approach Guardrail (EA)

Spall to outside of rear-left concrete rail, both forward concrete rails have settled 1", rear-left & both forward concrete rails tip out as much as 2.5".

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Surface rust, cracks & minor spalls to concrete diaphragms.

Fatigue (LF)

Welded cover plates at piers.

Utilities (LF)

Note: support cable for utility pole attached to P1C1.

Substructure

Slope Protection (EA)

Cracks, uneven settlement, rear slope has slid 2" & rear-left corner is undermined, forward slope has slid 3" & forward-left corner is slightly undermined/buckled, minor spalls, areas of vegetation growing thru CSP.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical