

Inspector: Ropelewski,Robert

Inspection Date: 04/11/2023

Structure Number: 1805177

Facility Carried: CR-10 (RIDGE ROAD)

Ohio Bridge Inspection Summary Report

CUY-00071-1559 (1805177)

2: District 16000 - CLEVELAND (CUY county)
ict
12

5A: Inventory Route 1 C0010

21: Major Maint A/B 01 - State Highway Agency /

7: Facility On CR-10 (RIDGE ROAD)

225 Routine Main A/B 04 - City or Municipal Highway /
Agency

6: Feature Ints IR-71& CSX

221 Inspection A/B 01 - State Highway Agency /

9: Location 1.9 MI. W. OF JCT USR 42

220: Inv. Location DISTRICT 12

Lat, Lon 41.4472724268 , -81.7353471218

Condition		Structure Type	
58: Deck	7 - Good 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	5- Fair (obvious leaking, 1" offset)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	8 / 0
59.01 Paint & PCS	5 - Fair (10-15% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	8 - Very Good Condition	408: Composite Deck	Y - Composite Construction
61: Channel	7	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	6 - Satisfactory	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)
			2- MicroSilica
67.01 GA	7	422: WS Date	01/01/1993

Appraisal		423: WS Thick (in)	2.0
Sufficiency Rating	70.8 SD/FO 2 - FO	482: Protective Coating	0 - Other Paint
36: Rail, Tr, Gd, Term Std	1 0 0 0	483: PCS Date	05/01/1994
72: Approach Alignment	8 - Equal to present desirable criteria	453: Bearing Type 1	2 - Rockers & Bolsters
113: Scour Critical	8 - Stable for scour conditions	455: Bearing Type 2	N - None
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations	528: Foundn: Abut Fwd	1 - Steel H Piles (Other size)
		533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
		536: Foundn: Pier 1	3 - Drilled Shafts
		539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric		Age and Service	
48: Max Span Length (ft)	116.0	27: Year Built/ 106 Rehab	1993 / 0000
49: Structure Length (ft)	756.0	42A: Service On	5 - Highway-pedestrian
52: Deck Width, Out-To-Out (ft)	66.3	42B: Service Under	8 - Highway - waterway - railroad
424: Deck Area (sf)	50122.8	28A: Lanes on	04
32: Appr Roadway Width (ft)	52.0	28B: Lanes Under	08
51: Road Width, Curb-Curb (ft)	52.0	19: Bypass Length	4
50A: Curb/SW Width: Left (ft)	6	29: ADT	16489
50A: Curb/SW Width: Right (ft)	6	109: % Trucks (%)	7
34: Skew (deg)	99		
33: Bridge Median	0 - No median		
54B: Min Vert Underclearance (ft)	19.64		
336A: Min Vert Clrnce IR Cardinal (ft)	99		
336B: Min V Clr IR Non-Cardinal (ft)	0		
578: Culvert Length (ft)	0		

Load Posting		Inspections	
41: Op/Post/Closed	A - Open	90: Routine Insp.	Months 24 04/11/2023
70: Posting	5 - Equal to or above legal loads	92A: FCM Insp.	N 0
70.01: Date		92B: Dive Insp.	N 0
70.02: Sign Type		92C: Special Insp.	N 0
734: Percent Legal (%)	150	92D: UBIT Insp.	N 0
704: Analysis Date	07/01/1994	92E: Drone Insp.	N 0
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.	Inspector	Ropelewski,Robert

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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.	50147	sq. ft.	48647	1500	0	0
	CS2 - Few leaching cracks. Minor mottled areas mostly at downspouts.						
805-Wearing Surface - Monolithic Concrete		39312	sq. ft.	37305	2000	2	5
	CS2- Minor cracks.						
	CS3- Spall in #2 NB near rear.						
	CS4- Asphalt patches and broken up concrete.						
107-Steel Open Girder/Beam	3 - Mod.	5292	ft.	5087	200	5	0
	CS2- Areas of surface rust, mostly to edges of lower flanges.						
	CS3- Section loss near fwd.						
515-Steel Protective Coating		63504	sq. ft.	0	58454	5000	50
	CS2 - Surface dulling/chalking.						
	CS3 - Blistered paint with rust underneath. Peeling paint & surface rust along edges of lower flanges.						
	CS4 - Unprotected steel.						
205-Reinforced Concrete Column	3 - Mod.	28	each	28	0	0	0
	CS1 - Minor delams to P2C1, P4C3 & C4 AND P5C4. Pop outs and minor cracks to P1C1-2.						
521-Concrete Protective Coating		5264	sq. ft.	5264	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	132	ft.	101	27	4	0
	Debris from leaking joint above.						
	CS2 - Cracks, some leaching.						
	CS3 - Few sealed spalls.						
521-Concrete Protective Coating		330	sq. ft.	330	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	462	ft.	457	5	0	0
	CS2- Cracks.						
521-Concrete Protective Coating		4752	sq. ft.	4752	0	0	0
300-Strip Seal Expansion Joint	3 - Mod.	128	ft.	36	50	4	38
	CS2 - Pop outs & cracks along both EXJT headers.						
	CS3 - Minor gouges to armor.						
	CS4 - Seal torn #2 SB at rear. Seals leaking in forward bays 1,2,3, 5 & 6 and rear bays 2 & 6 with stains, dirt and debris on backwalls and abutment seats.						
311-Movable Bearing	3 - Mod.	56	each	43	6	6	1
	CS2 - Surface rust. Rockers 1-4 tipped out on P7. Rockers 5-7 on P7 tipped in. at 61° degrees.						
	CS3 - Forward rockers 1, 2 & 3 and rear 2, 3 and 6 are tipped out. Temperature is 61° F.						
	CS4 - #2 rocker at rear is halfway off masonry plate, and disengaged from masonry plate keeper pins.						

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
313-Fixed Bearing	3 - Mod.	7	each	7	0	0	0
	Fixed at Pier 4						
321-Reinforced Concrete Approach Slab	3 - Mod.	1920	sq. ft.	1589	325	4	2
	CS2 - Few full length transverse cracks. Other cracks. CS3 - Minor spalls to both slabs. CS4- Asphalt patches at forward.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	1512	ft.	1087	275	150	0
	CS2 - Cracks. Localized areas of heavy scaling to inside of railings at light pole bases and areas of small popouts. CS3 - Spalls. Wide cracks. Delams. Rust stained cracks to outside rail.						
521-Concrete Protective Coating		7560	sq. ft.	7410	0	0	150
	CS4- Not effective						
815-Drainage	3 - Mod.	17	each	14	0	0	3
	CS4 - Scuppers plugged in SB lane 2 above pier 2 (downspouts on P2C4 is plugged at ground).						
830-Abutment Backwall	3 - Mod.	132	ft.	102	30	0	0
	CS2 - Vertical cracks.						
521-Concrete Protective Coating		561	sq. ft.	561	0	0	0

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Rehab Date:

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Feature Inters: IR-71& CSX

Traffic Under: 8 - Highway - waterway - railroad

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

1.9 MI. W. OF JCT USR 42

Insp
Resp B:

Inspector

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Inspection Date 04/11/2023

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Inspection Note:

Rear is north abutment.

Curbs/Sidewalk

Scaling. Dirt along railing. Minor delams.

Bridge Railing

Collision damage to right fence over rear slope and over 71 N lanes. Collision damage to left fence in span 3. Spall over traffic to left rail over SB #2.

Deck Drainage

Catch basins below downspouts at P2C4 are plugged. Erosion around plugged catch basin of P3C4. Bottom 4' of downspouts at P4C4 & P5C4 are missing.

Approach

Approach Wearing Surface

Minor cracks.

Approach Rail

Areas of cracks scaling and minor spalls.

Inspector Comments - General Appraisal

Superstructure

Utilities

Disconnected sections in bay 2 at both abutments and span 5. Evidence of water leak in conduit in bay 3 over forward slope. Conduit at P3C4 is bent. Conduit at P3C1 is damaged.

Substructure

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection

Channel protection slabs are sliding into creek and dump rock is undermining near columns 1&2 of pier 6.

Scour Critical