

Inspector: Gerstenslager,Michael
 Inspection Date: 08/31/2022

Structure Number: 1807269
 Facility Carried: SR 82

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00082-1376 (1807269)

2: District 08364 - BRECKSVILLE (CUY county)
 District 12

5A: Inventory Route 1 00082

21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 04 - City or Municipal Highway /
 Agency
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

7: Facility On SR 82
 6: Feature Ints CHIPPEWA CRK .40 MI E 21
 9: Location .25 MI E SR21
 Lat, Lon 41.320222 , -81.621764

Condition		Structure Type	
58: Deck	4 - Poor Condition	43: Bridge Type	1 - Concrete
58.01 Wearing Surface	5 - Fair (10-15%, 2% asphalt patch)		11 - Arch - Deck
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	5 - Fair Condition	45: Spans Main / Approach	1 / 0
59.01 Paint & PCS	N - Not Applicable	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	6 - Satisfactory Condition	408: Composite Deck	X - Not Applicable
61: Channel	4	414A Joint Type 1	N - None
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)
			N- Not Applicable
67.01 GA	5	422: WS Date	06/01/2001

Appraisal			
Sufficiency Rating	47.1	SD/FO	1 - SD
36: Rail, Tr, Gd, Term Std	1	1	1 1
72: Approach Alignment	6 - Equal to present minimum criteria		
113: Scour Critical	8 - Stable for scour conditions		
71: Waterway Adequacy	8 - Bridge Above Approaches		

423: WS Thick (in)	3.9
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric	
48: Max Span Length (ft)	70.0
49: Structure Length (ft)	73.0
52: Deck Width, Out-To-Out (ft)	49.0
424: Deck Area (sf)	3577
32: Appr Roadway Width (ft)	36.0
51: Road Width, Curb-Curb (ft)	36.0
50A: Curb/SW Width: Left (ft)	5
50A: Curb/SW Width: Right (ft)	5
34: Skew (deg)	0
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	0
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	1932 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	5 - Waterway
28A: Lanes on	03
28B: Lanes Under	00
19: Bypass Length	4
29: ADT	28437
109: % Trucks (%)	7

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 (%)	120
704: Analysis Date	01/31/2022

Inspections			
		Months	
90: Routine Insp.		12	08/31/2022
92A: FCM Insp.	N	0	10/14/1994
92B: Dive Insp.	N	0	
92C: Special Insp.	N	0	
92D: UBIT Insp.	N	0	
92E: Drone Insp.	N	0	
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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.	3577	sq. ft.	0	2717	750	110
<p>As viewed from inside the chambers of the arch. Chamber 4 not accessible.</p> <p>CS2 - Cracks. many leaching. Areas of honeycombing.</p> <p>CS3 - Delams. Spalls with exposed rusting rebar. Many leaching cracks with stalactites & efflorescence, some surrounded by wet areas. Rust leaching cracks.</p> <p>CS4 - Spalls with 4+ rebars exposed.</p>							
805-Wearing Surface - Monolithic Concrete		2628	sq. ft.	0	2603	20	5
<p>CS2 - Cracks, some as wide as 1/8". Map cracking.</p> <p>CS3 - Few delaminated areas near rear in EB lanes.</p> <p>CS4 - Asphalt patches between construction joint of wb lanes.</p>							
144-Reinforced Concrete Arch	3 - Mod.	3577	ft.	2272	200	1100	5
<p>Rust stains. Approximately 100 SF of delams & 25 SF of spalls (some with exposed rebar) to the intrados. Deteriorated concrete below cracks with dripping stalactites & approximately 35 SF of spalls & delams to the extrados</p> <p>CS2 - Leaching cracks. Efflorescence.</p> <p>CS3 - Mottled areas. Delaminated areas to inside of arch.</p> <p>CS4 - Deep spall at forward with section loss to exposed rebar.</p>							
215-Reinforced Concrete Abutment	3 - Mod.	98	ft.	0	97	1	0
<p>4' long undermined area at rear as deep as 5 1/2".</p> <p>CS2 - Cracks. Light scaling and honeycombing. Few minor shallow spalls.</p> <p>CS3 - Mortar missing from stones at right corner of rear abutment.</p>							
321-Reinforced Concrete Approach Slab	3 - Mod.	1008	sq. ft.	0	1008	0	0
<p>Paved over.</p> <p>CS2 - Cracks, some wide.</p> <p>CS3 - Asphalt patches along deck end.</p>							
334-Masonry Bridge Railing	3 - Mod.	147	ft.	15	132	0	0
<p>CS2 - A few cracked / deteriorated stones. Some mortar missing.</p>							
815-Drainage	3 - Mod.	2	each	2	0	0	0
<p>Water leaking thru floor onto extrados. Note: Arch drains stop flush with intrados & spray water onto arch.</p>							

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ODOT District: District 12

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Date Built: 07/01/1932

Major Maint: 01 - State Highway Agency

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Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: CHIPPEWA CRK .40 MI E 21

Traffic Under: 5 - Waterway

Insp: 01 - State Highway Agency

FIPS Code: 08364 - BRECKSVILLE (CUY county)

Location: DISTRICT 12

.25 MI E SR21

Resp A:

Insp

Resp B:

Inspector

Gerstenslager,Michael

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab

Confined space entry by tripod.

Curbs/Sidewalk

Cracks, shallow spalls, concrete patches.

Approach

Approach Wearing Surface

Cracks, some asphalt breaking up. Large asphalt patch in WB lane #2 at forward.

Approach Embankment

Cracking with minor settlement to forward-left & both rear approach walks.

Signs

Rear right bridge marker missing.

Inspector Comments - General Appraisal

Superstructure

Arch Column/Hanger

Thru cracks as wide as 1/4" in walls. Areas of minor deterioration.

Utilities

Rusting section loss to water line (inside arch).

Substructure

Substructure Scour

8' deep scour hole near forward-right concrete repair. General channel degradation.

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Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection

Original stone channel protection along rear abutment has been washed away. Undermining of rock ledge on west side of channel on south side of bridge. General channel degradation.

Scour Critical

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Pictures