

Inspector: Persanyi, Andrea  
 Inspection Date: 02/08/2023

Structure Number: 1802461  
 Facility Carried: SR 17

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**CUY-00017-1414 (1802461)**

2: District 37240 - INDEPENDENCE (CUY county)  
 District 12

5A: Inventory Route 1 00017

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 17  
 6: Feature Ints WEST CRK .21 MI W. OF 77  
 9: Location APPROX 1000FT W I-77  
 Lat, Lon 41.414392 , -81.647431

Condition	Structure Type
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**58: Deck** **5 - Fair Condition**  
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)  
 58.02 Joint N- Not Applicable  
**59: Superstructure** **5 - Fair Condition**  
 59.01 Paint & PCS N - Not Applicable  
**60: Substructure** **6 - Satisfactory Condition**  
**61: Channel** **5**  
 61.01 Scour **6 - Satisfactory**  
**62: Culverts** **N - Not Applicable**

43: Bridge Type 2 - Concrete continuous  
 01 - Slab  
 N- Not Applicable  
 45: Spans Main / Approach 3 / 0  
 107: Deck Type 1 - Concrete Cast-in-Place  
 408: Composite Deck N - Non-composite Construction  
 414A Joint Type 1 N - None  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)  
 2- MicroSilica

67.01 GA 5

Appraisal	422: WS Date
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Sufficiency Rating 80.3 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 8 - Stable for scour conditions  
 71: Waterway Adequacy 7 - Slight Chance of Overtopping Bridge

09/30/2006  
 423: WS Thick (in) 4.0  
 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 1 - Steel H Piles (Other size)  
 533: Foundn: Abut Rear 1 - Steel H Piles (Other Size)  
 536: Foundn: Pier 1 1 - Steel H Piles (Other size)  
 539: Foundn: Pier 2 0 - Other

Geometric	422: WS Date
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48: Max Span Length (ft) 45.0  
 49: Structure Length (ft) 125.0  
 52: Deck Width, Out-To-Out (ft) 61.8  
 424: Deck Area (sf) 7725  
 32: Appr Roadway Width (ft) 64.0  
 51: Road Width, Curb-Curb (ft) 56.8  
 50A: Curb/SW Width: Left (ft) 2.5  
 50A: Curb/SW Width: Right (ft) 2.5  
 34: Skew (deg) 25  
 33: Bridge Median 3 - Closed median with non-mountable barriers  
 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	422: WS Date
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27: Year Built/ 106 Rehab 1956 / 2006  
 42A: Service On 5 - Highway-pedestrian  
 42B: Service Under 5 - Waterway  
 28A: Lanes on 04  
 28B: Lanes Under 00  
 19: Bypass Length 1  
 29: ADT 14033  
 109: % Trucks (%) 4

Load Posting	Inspections
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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

Inspections	422: WS Date
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90: Routine Insp.	12	02/08/2023
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

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704: Analysis Date 06/08/2020 Inspector Persanyi,Andrea  
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
<b>38-Reinforced Concrete Slab</b>	3 - Mod.	7729	sq. ft.	4729	2000	650	350
<p>CS2 - Leaching cracks. Light mottled areas. Rust stains.</p> <p>CS3 - Spalls, most sealed over, exposing bottom surface of rebar. Many large delams. Deck edges have spalls with exposed rebar &amp; many delams, mainly along left edge in spans 2 &amp; 3. Heavy mottled areas.</p> <p>CS 4 - Spalls with 4 or more rebar exposed.</p>							
<b>805-Wearing Surface - Monolithic Concrete</b>		7094	sq. ft.	3144	3300	650	0
<p>CS2 - Longitudinal &amp; transverse cracks. Large areas of map cracking.</p> <p>CS3 - Wide cracking, some up to 1/8", mostly longitudinally. Minor delams.</p>							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	136	ft.	51	60	25	0
<p>CS2 - Long cracks with efflorescence. Other cracks.</p> <p>CS3 - Spalls. Delams. Cracks leaching rust.</p>							
<b>225-Steel Pile</b>	3 - Mod.	36	each	17	15	4	0
<p>CS2 - Rusting section loss to some steel pier columns. Old rusting through holes to P1C2 &amp; C17 covered with grout.</p> <p>CS3 - Start of pack rust and rusting section loss to steel pier columns 9 &amp; 10 at both piers where old median joint was.</p>							
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	136	ft.	125	10	1	0
<p>CS2 - Honeycombed areas. Few cracks, few leaching. Rust stains. Areas of shallow covered rebar exposed.</p> <p>CS3 - Minor spalls to top of P2 cap between C9 &amp; C10.</p>							
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	3200	sq. ft.	3115	75	10	0
<p>CS2 - Longitudinal sealed crack and sealed spall in rear WB slab. Other cracks, some sealed. Small shallow spalls.</p> <p>CS3 - Delam at forward right along deck end. One wide crack to forward EB and rear EB.</p>							
<b>330-Metal Bridge Railing</b>	3 - Mod.	250	ft.	0	219	25	6
<p>Minor spalls &amp; delams and cracks to concrete end posts.</p> <p>CS2 - Loose fasteners at end posts. Surface rust and minor rusting section loss throughout.</p> <p>CS3 - Areas of heavy rusting section loss.</p> <p>CS4 - Few rusting thru holes to box railing.</p>							
<b>815-Drainage</b>	3 - Mod.	2	each	2	0	0	0
<p>Note: Scuppers were plugged at overlay.</p>							

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	<b>Environment</b>	<b>Total Quantity</b>	<b>Units</b>	<b>Condition State 1</b>	<b>Condition State 2</b>	<b>Condition State 3</b>	<b>Condition State 4</b>
<b>840-Approach Slab: Termination or Joint</b>	3 - Mod.	128	ft.	104	24	0	0
CS2 - Some sealed cracks.							

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ODOT District: District 12

Major Maint: 01 - State Highway Agency

Routine Maint: 04 - City or Municipal Highway Agency

FIPS Code: 37240 - INDEPENDENCE (CUY county)

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Feature Inters: WEST CRK .21 MI W. OF 77

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Location: DISTRICT 12

Inspection Date 02/08/2023

Traffic On: 5 - Highway-pedestrian

Traffic Under: 5 - Waterway

APPROX 1000FT W I-77

Reviewer Seif,Youssef

Date Built: 07/01/1956

Rehab Date: 10/01/2006

Insp. 01 - State Highway Agency

Resp A:

Insp

Resp B:

**Inspector Comments - Deck and Approach**

**Deck**

**Curbs/Sidewalk**

A few delams & cracks. 10' spalled/broken up area with exposed rebar to left curb. Other minor spalls.

**Approach**

**Approach Wearing Surface**

Sealed cracks.

**Approach Embankment**

Large area of erosion in rear-right embankment (around creek inlet drain).

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Slope Protection**

As much as 23" of both footers exposed.

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

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**Channel Protection**

Sections of protection around columns has shifted and/or collapsed. Areas of filter fabric exposed. Some stone washed away with minor erosion along both banks. Channel lowered approximately 3' compared to as-built.

**Scour Critical**

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**Pictures**