

Ohio Bridge Inspection Summary Report

CUY-00017-1414 (1802461)

2: District 37240 - INDEPENDENCE (CUY county)
 ict
 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 **6**
61.01 Scour **6 - Satisfactory**
62: Culverts **N - Not Applicable**

67.01 GA **5**

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

Appraisal

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

422: WS Date 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

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

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

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 06/08/2020
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections

	<i>Months</i>	
90: Routine Insp.	12	02/01/2022
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	Banaszak, Ken	

Inspector: Ken Banaszak
 Inspection Date: 02/01/2022

Structure Number: 1802461
 Facility Carried: SR 17

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	3 - Mod.	7729	sq. ft.	4729	2000	1000	0
	<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 & many delams, mainly along left edge in spans 2 & 3. Heavy mottled areas.</p>						
805 - Wearing Surface - Monolithic Concrete		7094	sq. ft.	3144	3300	650	0
	<p>CS2 - Longitudinal & transverse cracks. Large areas of map cracking.</p> <p>CS3 - Wide cracking, some as wide as 1/32" and 1/8", mostly longitudinally. Minor delams.</p>						
215 - Reinforced Concrete Abutment	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>						
225 - Steel Pile	3 - Mod.	36	each	17	15	4	0
	<p>CS2 - Rusting section loss to some steel pier columns. Old rusting through holes to P1C2 & C17 covered with grout.</p> <p>CS3 - Start of pack rust and rusting section loss to steel pier columns 9 & 10 at both piers where old median joint was.</p>						
234 - Reinforced Concrete Pier Cap	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 & C10.</p>						
321 - Reinforced Concrete Approach Slab	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>						
330 - Metal Bridge Railing	3 - Mod.	250	ft.	0	219	25	6
	<p>Minor spalls & 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>						
815 - Drainage	3 - Mod.	2	each	2	0	0	0
	<p>Note: Scuppers were plugged at overlay.</p>						

Inspector: Ken Banaszak
Inspection Date: 02/01/2022

Structure Number: 1802461
Facility Carried: SR 17

Bridge Inspection Report

Element Inspection

840 - Approach Slab: Termination or Joint	3 - Mod.	128	ft.	104	24	0	0
CS2 - Some sealed cracks.							

ODOT District: District 12

CUY-00017-1414 _(1802461)

Major Maint: 01 - State Highway Agency

Facility Carried: SR 17

Traffic On: 5 - Highway-pedestrian

Date Built: 07/01/1956

Rehab Date: 10/01/2006

Routine Maint: 04 - City or Municipal Highway
Agency

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

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

Resp A:

FIPS Code: 37240 - INDEPENDENCE (CUY county)

Location: DISTRICT 12

APPROX 1000FT W I-77

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date 02/01/2022

Reviewer Seif, Youssef

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

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 ~3' compared to as-built.

Scour Critical