

Inspector: Miller,Jason

Inspection Date: 05/23/2025

Structure Number: 1809660

Facility Carried: SR 174

Ohio Bridge Inspection Summary Report**CUY-00174-0023 (1809660)**

B.L.04: District District 1229498 - GATES MILLS (CUY county)

B.CL.02: Major Maint 01 - State Highway Agency /

225 Routine Main A/B 01 - State Highway Agency /

221 Inspection A/B 01 - State Highway Agency /

5A: Inventory Route 1 00174

7: Facility On SR 174

6: Feature Ints STREAM .68 MI. S. OF 322

9: Location .23 MILES N OLD MILL ROAD

Lat, Lon 41.5211 , -81.405139

Condition**B.C.01: Deck 5**

58.01: Wearing Surface 7

B.C.08: Joint N**B.C.02: Superstructure 5**

59.01: Paint & PCS N

B.C.03: Substructure 6**B.C.09: Channel 6****B.C.11: Scour 6****B.C.10: Channel Prot. 6****B.C.05: Bridge Railing 6****B.C.06: Transitions 6****B.C.07: Bearings N****B.C.04: Culverts N****Ohio GA 5****Appraisal**

B.AP.03: Scour Vul. A - Scour appraisal completed. Bridge determined to be stable for scour.

Geometric

48: Max Span Length (ft) 22.0

49: Structure Length (ft) 22.0

52: Deck Width, Out-To-Out (ft) 33

424: Deck Area (sf) 726

32: Appr Roadway Width (ft) 27.0

51: Road Width, Curb-Curb (ft) 31

50A: Curb/SW Width: Left (ft) 0

50A: Curb/SW Width: Right (ft) 0

34: Skew (deg) 0

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

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 07/01/2010

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

Structure Type

43: Bridge Type 1 - Concrete

04 - Tee Beam

N- Not Applicable

45: Spans Main / Approach 1 / 0

107: Deck Type 1 - Concrete Cast-in-Place

408: Composite Deck Y - 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)

1 - Super Plasticized Dense Concrete (SDC)

422: WS Date 07/01/2009

423: WS Thick (in) 3.0

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 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)

Age and Service

27: Year Built/ 106 Rehab 1932 / 0000

42A: Service On 5 - Highway-pedestrian

42B: Service Under 5 - Waterway

28A: Lanes on 02

28B: Lanes Under 00

19: Bypass Length 3

29: ADT 2463

109: % Trucks (%) 2

Inspections

90: Routine Insp. 12 Months 05/07/2024

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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| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|---|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 16-Reinforced Concrete Top Flange | 3 - Mod. | 726 | sq. ft. | 376 | 300 | 50 | 0 |
| | CS2 - Some honeycombed areas. Cracks throughout. Light mottling. Delamination. | | | | | | |
| | CS3 - Some heavy scaling from high water. Leaching cracks with efflorescent build up & stalactites. Mottled & rust leaching areas. Large, loose delamination with spalls in bay 6. Shallow spalls with exposed rebar. Spall in bay 4 with heavy section loss to exposed rebar. | | | | | | |
| 510-Wearing Surfaces | | 632 | sq. ft. | 592 | 30 | 10 | 0 |
| | CS2 - Some shallow scaling. | | | | | | |
| | CS3 - Longitudinal crack as wide as 1/16" in northbound lane. | | | | | | |
| 110-Reinforced Concrete Open Girder/Beam | 3 - Mod. | 126 | ft. | 0 | 68 | 58 | 0 |
| | CS2 - Scaling from high water. Leaching cracks. Light mottling. Delamination. | | | | | | |
| | CS3 - Leaching cracks with efflorescent build up stalactites & rust stains. Wide horizontal cracks, most with efflorescence build up. Large areas of loose delamination to bottoms of a few beams. Large spall with exposed rebar to bottom corner of beam 5. | | | | | | |
| 521-Concrete Protective Coating | | 441 | sq. ft. | 22 | 0 | 0 | 419 |
| | Only the outside of fascia beams are sealed. | | | | | | |
| | CS4 - PCS is ineffective or absent. | | | | | | |
| 215-Reinforced Concrete Abutment | 3 - Mod. | 68 | ft. | 0 | 52 | 16 | 0 |
| | CS2 - Cracks, some leaching. Light scaling from high water. Small shallow spalls, mostly along top edges. | | | | | | |
| | CS3 - Heavier scaling at water line. Leaching cracks with efflorescence build up, some leaching rust. Shallow spalls to faces. Deteriorated concrete repairs at rear-left, & both forward corners. Spalls at the foot of forward & rear-right corners. Deep spalls to edge of forward-left. | | | | | | |
| 521-Concrete Protective Coating | | 385 | sq. ft. | 0 | 0 | 0 | 385 |
| | CS4 - PCS is not present. | | | | | | |
| 330-Metal Bridge Railing | 3 - Mod. | 44 | ft. | 0 | 37 | 4 | 3 |
| | CS2 - Chalking & wearing away of galvanizing. Start of rust to backside of rail. | | | | | | |
| | CS3 - Isolated spots of sections loss. | | | | | | |
| | CS4 - Several small rusted through holes. 6" long through hole in left rail. | | | | | | |
| 815-Drainage | 3 - Mod. | 2 | each | 2 | 0 | 0 | 0 |
| 830-Abutment Backwall | 3 - Mod. | 52 | ft. | 14 | 32 | 6 | 0 |
| | CS2 - Honeycombed areas. Cracks, some leaching. Areas of scaling from high water. Delamination. | | | | | | |
| | CS3 - A few cracks with heavy efflorescent build up. | | | | | | |
| 521-Concrete Protective Coating | | 65 | sq. ft. | 0 | 0 | 0 | 65 |
| | CS4 - PCS is not present. | | | | | | |

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CUY-00174-0023 _(1809660)

ODOT District: District 12

Date Built: 07/01/1932

Major Maint: 01 - State Highway Agency

Facility Carried: SR 174

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: STREAM .68 MI. S. OF 322

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 29498 - GATES MILLS (CUY county)

Location: DISTRICT 12

.23 MILES N OLD MILL ROAD

Insp
Resp B:

Inspector

Miller,Jason

Inspection Date 05/23/2025

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

A few, mostly transverse cracks to asphalt, some sealed. Full width asphalt repair to southbound lane at rear. Full width asphalt patch across both lanes at forward.

Approach Embankment

Erosion at rear-left with concrete base of guardrail post exposed.

Approach Guardrail

Minor collision damage at forward-left. Some areas of rust section loss with some small, rusted through holes.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Substructure

Wingwalls

Cracks, some leaching. Delamination. Diagonal leaching cracks with efflorescent build up to forward-right.

Substructure Scour

Erosion hole as deep as 2' at forward-right abutment corner, probing indicates no undermining. Erosion hole as deep as 1' at rear left with up to 6" of undermining.

Culvert

Inspector Comments - Waterway

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Waterway Adequacy

Channel

Channel Alignment

Stream flows into corner of forward abutment & down along rear abutment.

Channel Protection

Upstream gabion wall is missing stones at its base & tipped in. Some rock channel protection has washed away or settled into channel.

Channel Hydraulic Opening

Rocks & sediment block as much as 5% throughout.

Scour Critical