

Inspector: Dohy,Christine
Inspection Date: 06/04/2026

Structure Number: 7751001
Facility Carried: HIGHLAND RD

STATE OF OHIO
BRIDGE INSPECTION REPORT
SUM-C0111-0000 _(7751001)

ODOT District 04
City or Township:
Facility Carried:

County: 77 - Summit
69428 - SAGAMORE HILLS TWP (SUM county)
HIGHLAND RD
over CUYAHOGA RIVER
1 - Highway
5 - Prestressed concrete
05 - Box Beam or Girders - Multiple

Type of Service On the Bridge
Structure Type:



Major Maintenance Responsibility
Inspection Responsibility #1
Inspection Responsibility #2
Routine Maintenance Responsibility:

02 - County Highway Agency
02 - County Highway Agency
02 - County Highway Agency

Inspection Date: 06/04/2026
Inspection Type: Routine (SNBI)

Lead Inspector: Dohy,Christine
Reviewed by: Dohy,Christine

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Ohio Bridge Inspection Summary Report

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B.L.04: District District 04 69428 - SAGAMORE HILLS TWP (SUM county)

B.CL.02: Major Maint. 02 - County Highway Agency /

B.CL.02.02: Rou. Maint A/B 02 - County Highway Agency /

B.CL.02.03: Inspection A/B 02 - County Highway Agency /

Condition

B.C.01: Deck 5

58.01: Wearing Surface 6

B.C.08: Joint N

B.C.02: Superstructure 4

59.01: Paint & PCS N

B.C.03: Substructure 6

B.C.09: Channel 7

B.C.11: Scour 7

B.C.10: Channel Prot. 7

B.C.05: Bridge Railing 5

B.C.06: Transitions N

B.C.07: Bearings 7

B.C.04: Culverts N

Ohio GA 4

Appraisal

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

Geometric

B.G.01: NBIS Bridge Length (ft) 155.0

B.G.02: Total Bridge Length (ft) 154.5

B.G.03: Max Span (ft) 74.0

B.G.05: Deck Width, Out-To-Out (ft) 36.6

B.G.16: Calc Deck Area (sf) 5654.7

B.G.09: Appr Roadway Width (ft) 36.0

B.G.06: Bridge Width, Curb-Curb (ft) 36.6

B.G.07: Curb/SW Width: Left (ft) 0

B.G.08: Curb/SW Width: Right (ft) 0

B.G.11: Skew (deg) 0

54B: Min Vert Underclearance (ft) 0

336A: Min Vert Clrnce IR Cardinal (ft) 99

336B: Min V Clr IR Non-Cardinal (ft) 0

B.SP.16.02: Culvert Length (ft) 0

Load Posting

41: Op/Post/Closed P - Posted for Load

70: Posting 2 - 20.0-29.9% below legal loads

70.01: Date 03/01/2019

70.02: Sign Type 2- R12-H5 ("Weight Limit Single Unit", 5 trucks + Silhouette)

734: Percent Legal (%) 100

B.LR.03: Rating Date 12/10/2024

B.LR.04: Rating Method LFR - Load Factor Rating

5A: Inventory Route 1 C0111

7: Facility On HIGHLAND RD

6: Feature Ints CUYAHOGA RIVER

9: Location 2100 FT E OF RIVERVIEW RD

Lat, Lon 41.288753 , -81.565090

Structure Type

43: Bridge Type 5 - Prestressed concrete
05 - Box Beam or Girders - Multiple
N- Not Applicable

45: Spans Main / Approach 3 / 0

107: Deck Type 9 - Other

408: Composite Deck X - Not Applicable

414A Joint Type 1 N - None

414B: Joint Type 2 N - None

108: Wearing Surface 6 - Bituminous

5 - Asphalt

B.SP.10.03: WS Date 07/01/2006

B.SP.10.02: WS Thick (in) 2.0

B.SP.07.01: PCS Type N - None or Not Applicable

483: PCS Date

453: Bearing Type 1 4 - Elastomeric (Plain)

455: Bearing Type 2 N - None

528: Foundn: Abut Fwd 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)

533: Foundn: Abut Rear 2 - Cast-in-Place reinforced Concrete Piles (Other diameter)

536: Foundn: Pier 1 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)

539: Foundn: Pier 2 N - None (Such as most Culverts)

Age and Service

B.W.01: Year Built / Rehab 1967 / 0000

42A: Service On 1 - Highway

42B: Service Under 5 - Waterway

28A: Lanes on 02

28B: Lanes Under 00

19: Bypass Length 9

29: ADT 1889

109: % Trucks (%) 5

Inspections

B.IE.03 Routine Insp. 12 Months 06/04/2026

B.IE.03: NSTM Insp. 0

B.IE.03: UW Insp. Y 72 03/14/2024

B.IE.03: Special Insp. 0

UBIT Insp. N 0

Drone Insp. N 0

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ODOT District: District 04

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Date Built: 12/31/1967

Major Maint: 02 - County Highway Agency

Facility Carried: HIGHLAND RD

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 02 - County Highway Agency

Feature Inters: CUYAHOGA RIVER

Traffic Under: 5 - Waterway

Insp. 02 - County Highway

FIPS Code: 69428 - SAGAMORE HILLS TWP (SUM county)

Location: SAG

2100 FT E OF RIVERVIEW RD

Resp A: Agency

Inspector

Dohy,Christine

Inspection Date

06/04/2026

Reviewer

Dohy,Christine

Insp
Resp B:

Inspector Comments - Deck and Approach

Deck, Wearing Surface, Joints, Railing

Bridge Wearing Surface (SF)

Crack throughout. Asphalt patches at bridge ends and at intermediate expansion joints. Joint at rear abutment has several potholes and moderate patching. Four transverse cracks the width of the bridge

Bridge Railing (LF)

Major perforations at guardrail post webs. Six posts at right and nine posts at left affected. Several others heavily rusted. Several bolts from handrail to posts missing.

Deck Drainage (EA)

Drip edge rusted away on the south side. Minimal if any change from last report.

Approach

Approach Slab (SF)

Rear slab has a longitudinal crack. Minimal if any change from last report.

Approaches

Large cracks at what appears to be joints in west approach roadway but most are on Cuyahoga County side of line.

Inspector Comments - General Appraisal

Superstructure, Bearings

Beams/Girders (LF)

Span 1:

Beams 3 and 4 and 8 thru 11 joints are leaking at rear abutment.

Beam 12 is wet/saturated and has a near full length longitudinal crack indicating a delamination (~9" to 12" from exterior face). Beam 12 has spall with 3 broken strands near midspan. Near pier 1 approximately 10' of cracking and spalling in top of beam.

Span 2:

Beam 1 - Multiple 1-3 SF spalls around beam drain holes and bridge railing anchorage with up to 3 exposed strands. Delamination ~1.5 ft wide) near west end of span.

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Beam 7 - Seven 1 SF spalls near north edge of beam with 1 exposed strand.

Beam 9 - Three 1 SF and one 3'x1' spalls near north edge of beam with 1 exposed strand. Two 1 SF spalls near south edge of beam with 1 exposed strand.

Beam 10 - One SF spall near north edge of beam with 1 exposed strand.

Beam 11 - Leakage along joint between beams 11 and 12 with 3 damp/dark areas.

Beam 12 - Four spalls along south edge with up to 4 exposed strands (3 broken). Longitudinal cracking along fascia with seven shallow and one 2.5 ft x1ft x 0.5 ft deep spall at top.

Span 3:

Joints between beams 5 and 6 leak. Joints between beams 6 and 7 leak at forward abutment and near pier 2. Joints between beams 10/11 and 11/12 leak at isolated areas.

Minimal if any change from last report.

Substructure

Abutments (LF)

At forward abutment crack with efflorescence and leaking from beam seat.

Pier Columns/Bents (EA)

Major corrosion of top 2 feet of piles 1 and 6 (both piers) and pile 2 at pier 2. Pier 2, column 6 3 ft x 3 ft spall, 4 inches deep and a 1'x2'x4" deep.

No undermining/scour per 2021 UWI Report.

Pier Caps (LF)

Pier 2 between columns 5 and 6, exposed bar at bottom, 2 ft long (poor concrete clearance). Ends of both pier caps completely saturated with minor cracking and chlorides. Pier 2 over column 1, 1 ft x 2 ft spall with exposed vertical bar. Pier 2 between piles 3 and 4 spall 1' long with exposed rebar due to clearance issue.

Substructure Scour (EA)

No scour reported on 2021 UWI Report.

Slope Protection (EA)

A few cracks in both west and east slope protection.

Culvert

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Inspector Comments - Waterway

Channel Protection

Channel

Scour

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Bridge Inspection Report

Pictures



PHOTO 1

Description Load posting sign



PHOTO 2

Description Rear joint

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Bridge Inspection Report

Pictures



PHOTO 3

Description Looking east over roadway



PHOTO 4

Description Rear abutment

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Pictures



PHOTO 5

Description Pier 1 west side



PHOTO 6

Description Beam 12, span 1 - 3 broken strands

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PHOTO 7

Description Underside span 1



PHOTO 8

Description Pier 1 pile 6 deterioration

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PHOTO 9

Description Pier 1 pile 1 deterioration



PHOTO 10

Description North profile

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Pictures



PHOTO 11

Description Downstream



PHOTO 12

Description Pier 1 east side

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PHOTO 13

Description Beam 1, span 2 exposed strands



PHOTO 14

Description Beam 7 span 2 exposed strand

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Pictures



PHOTO 15

Description Beam 9 span 2 exposed strand



PHOTO 16

Description Beam 12 span 2 exposed strands

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PHOTO 17

Description Beam 12 span 2 exposed strands



PHOTO 18

Description Beam 12 span 2 exposed strands

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Bridge Inspection Report

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PHOTO 19

Description Beam 12 span 2 exposed strands and rusted guardrail post



PHOTO 20

Description Pier 1 pile 6 deterioration

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Pictures



PHOTO 21

Description Pier 2 west side

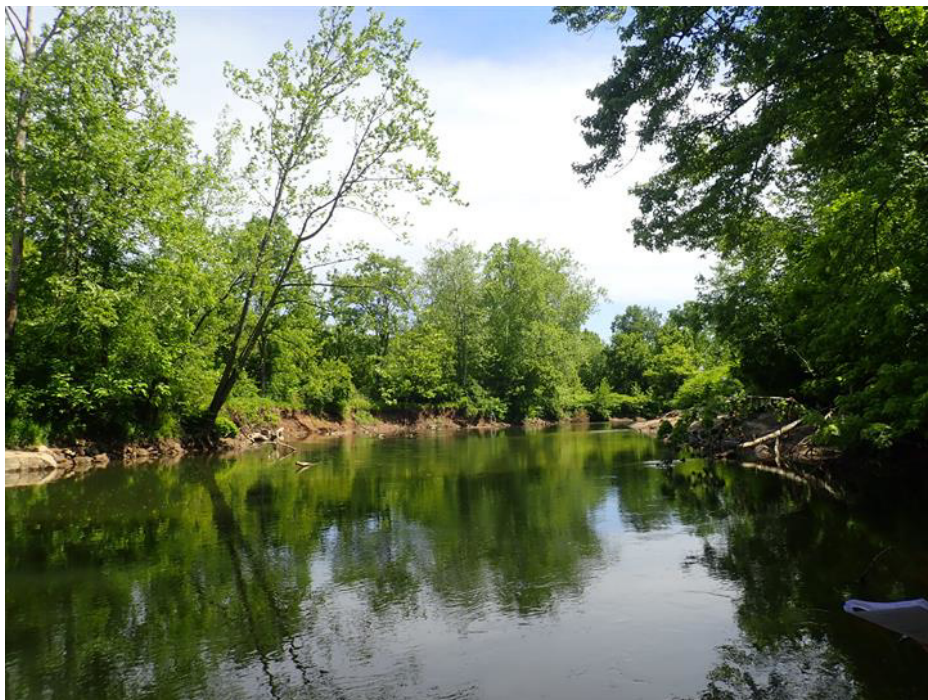


PHOTO 22

Description Upstream

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Bridge Inspection Report

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PHOTO 23

Description Northwest corner



PHOTO 24

Description Rusted/perforated guardrail posts

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PHOTO 25

Description Rusted/perforated guardrail posts



PHOTO 26

Description Cracking in deck

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PHOTO 27

Description Cracking in deck



PHOTO 28

Description Cracking in deck

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PHOTO 29

Description Forward approach joint



PHOTO 30

Description Looking west over roadway

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PHOTO 31

Description Guardrail deterioration



PHOTO 32

Description Pier 2 east side

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PHOTO 33

Description Forward abutment



PHOTO 34

Description Underside span 3

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Bridge Inspection Report

Pictures



PHOTO 35

Description South profile



PHOTO 36

Description Pier 2 pile 6 spall

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PHOTO 37

Description Missing bolt in guardrail



PHOTO 38

Description Looking east over roadway

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Bridge Inspection Report

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PHOTO 39

Description Cracks in rear approach