

Inspector: Banaszak, Ken  
 Inspection Date: 04/11/2023

Structure Number: 1810464  
 Facility Carried: SR 252

## Ohio Bridge Inspection Summary Report

**CUY-00252-0370 (1810464)**

2: District 56882 - NORTH OLMSTED (CUY county)  
 District 12

5A: Inventory Route 1 00252

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 252  
 6: Feature Ints STREAM S BUTTERNUT RIDGE  
 9: Location 0.64 MI S I 480  
 Lat, Lon 41.402622 , -81.904708

### Condition

**58: Deck N - Not Applicable**  
 58.01 Wearing Surface N - Not Applicable  
 58.02 Joint N - Not Applicable  
**59: Superstructure N - Not Applicable**  
 59.01 Paint & PCS N - Not Applicable  
**60: Substructure N - Not Applicable**  
**61: Channel 7**  
**61.01 Scour 5 - Fair or problems noted but they are stable or unchanged scour (Spread: no undermining, Deep: A couple piles may be visible)**  
**62: Culverts 4 - Large spalls, heavy scaling, wide cracks**  
**67.01 GA 4**

### Structure Type

43: Bridge Type 3 - Steel  
 19 - Culvert (includes frame culverts)  
 N - Not Applicable  
 45: Spans Main / Approach 1 / 0  
 107: Deck Type N - Not Applicable  
 408: Composite Deck X - Not Applicable  
 414A Joint Type 1 N - None  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface N - NA  
 N - Not Applicable

### Appraisal

Sufficiency Rating 58.0 SD/FO 1 - SD  
 36: Rail, Tr, Gd, Term Std N N 1 1  
 72: Approach Alignment 8 - Equal to present desirable criteria  
 113: Scour Critical 8 - Stable for scour conditions  
 71: Waterway Adequacy 8 - Bridge Above Approaches

422: WS Date  
 423: WS Thick (in) 0.0  
 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 N - None (Such as most Culverts)  
 533: Foundn: Abut Rear N - None (such as most Culverts)  
 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) 14.0  
 49: Structure Length (ft) 14.0  
 52: Deck Width, Out-To-Out (ft) 0.0  
 424: Deck Area (sf) 1064  
 32: Appr Roadway Width (ft) 76.0  
 51: Road Width, Curb-Curb (ft) 0.0  
 50A: Curb/SW Width: Left (ft) 0  
 50A: Curb/SW Width: Right (ft) 0  
 34: Skew (deg) 54  
 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) 344

### Age and Service

27: Year Built/ 106 Rehab 1985 / 0000  
 42A: Service On 1 - Highway  
 42B: Service Under 5 - Waterway  
 28A: Lanes on 04  
 28B: Lanes Under 00  
 19: Bypass Length 0  
 29: ADT 15888  
 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 (%) 150  
 704: Analysis Date 07/01/2003  
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18

### Inspections

90: Routine Insp. 12 Months 04/11/2023  
 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  
 Inspector Banaszak, Ken

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>240-Steel Culvert</b>	3 - Mod.	340	ft.	0	50	255	35
CS 2 - Areas of surface rust. CS 3 - Heavier section loss, concentrated mostly at invert. CS 4 - Many rusted through holes to 5:00 and 7:00 seams. Holes range from 1/2"-3". Sections of multiple holes under both roadway and embankment areas.							
<b>835-Culvert End Treatment</b>	3 - Mod.	2	each	1	1	0	0
CS 2 - Spall to North side under CMP at inlet. North half of Inlet wall tipped outward as much as 2".							
<b>845-Roadway Over Structure</b>	3 - Mod.	1	each	0	1	0	0
CS 2 - Cracks, some sealed.							

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ODOT District: District 12

**CUY-00252-0370\_(1810464)**

Date Built: 07/01/1985

Major Maint: 01 - State Highway Agency

Facility Carried: SR 252

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: STREAM S BUTTERNUT RIDGE

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: DISTRICT 12

0.64 MI S I 480

Insp Resp B:

Inspector

Banaszak, Ken

Inspection Date 04/11/2023

Reviewer Seif, Youssef

**Inspector Comments - Deck and Approach**

**Deck**

**Approach**

**Approach Embankment (EA)**

Large erosion rut down southeast (outlet) embankment, rut is approximately 13' wide and 10' deep. Areas of shale erosion to northeast embankment 25' to 75' from outlet. Minor erosion behind both inlet headwalls. Erosion behind south side of inlet concrete channel protection.

**Approach Guardrail (EA)**

Some post rot. Collision damage to East rail.

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Culvert**

**Culvert Seams (EA)**

A few nuts & bolts missing thru out, a few misaligned nuts, areas of minor water infiltration.

**Culvert Scour (EA)**

As much as 23" vertical face of outlet concrete channel protection exposed with no undermining (on rock). Start of undermining to through holes in invert.

Outlet protection extends 5' from toe wall.

**Inspector Comments - Waterway**

**Waterway Adequacy**

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**Channel**

**Channel Protection (LF)**

South-West corner has embankment scour. Several wide cracks to protection on inlet side.

**Scour Critical**

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**Bridge Inspection Report**

**Pictures**