

Inspector: Gerstenslager, Michael  
 Inspection Date: 10/25/2022

Structure Number: 1807293  
 Facility Carried: SR 82

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**CUY-00082-1269 (1807293)**

2: District 08364 - BRECKSVILLE (CUY county)  
 District 12

5A: Inventory Route 1 00082

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 82  
 6: Feature Ints CHIPPEWA CRK .67 MI W 21  
 9: Location 3500 FT W BRECKSVILLE RD.  
 Lat, Lon 41.320628 , -81.638886

**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 6**  
 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 6 - Deterioration or initial disintegration**  
 67.01 GA 6

**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 N - Non-composite Construction  
 414A Joint Type 1 N - None  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface N - NA  
 N - Not Applicable

**Appraisal**

Sufficiency Rating 83.2 SD/FO 0 - ND  
 36: Rail, Tr, Gd, Term Std N N N N  
 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) 12.0  
 49: Structure Length (ft) 12.0  
 52: Deck Width, Out-To-Out (ft) 0.0  
 424: Deck Area (sf) 1152  
 32: Appr Roadway Width (ft) 96.0  
 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) 30  
 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) 370

**Age and Service**

27: Year Built/ 106 Rehab 1968 / 0000  
 42A: Service On 1 - Highway  
 42B: Service Under 5 - Waterway  
 28A: Lanes on 04  
 28B: Lanes Under 00  
 19: Bypass Length 1  
 29: ADT 15935  
 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

**Inspections**

	Months	
90: Routine Insp.	12	10/25/2022
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

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704: Analysis Date 07/01/2002 Inspector Gerstenslager,Michael  
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>240-Steel Culvert</b>	3 - Mod.	370	ft.	0	262	100	8
<p>CS2 - Areas of surface rust mostly at invert. Evidence of water infiltration in areas.</p> <p>CS3 - Some heavy rusting section loss along invert. Rusting section loss to plates at 10:00, 12:00 &amp; 2:00 at inlet. CMP is pushed in at 1:00 near inlet. Elliptical cross sections near inlet &amp; outlet with major axis being vertical (egg shaped). Hardware rusting section loss near inlet and outlet. Some cusping of 12:00 seam (less than 1/4"). Cusping of 6:00 seam at outlet.</p> <p>CS4 - Several rusting thru holes at outlet.</p>							
<b>835-Culvert End Treatment</b>	3 - Mod.	2	each	0	0	0	2
<p>CS4 - Outlet headwall has several leaching diagonal cracks, large delams &amp; spalls with 360° rebar exposure. East half of outlet headwall is tipped out &amp; bowed with many thru cracks. Gaps thru to fill between outlet headwall and footer with 27 severed rebar that connect the east half to footer. Spalls &amp; leaching cracks to inlet headwall. West half of inlet headwall is crack severed.</p>							
<b>845-Roadway Over Structure</b>	3 - Mod.	2	each	2	0	0	0

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ODOT District: District 12

**CUY-00082-1269 \_(1807293)**

Date Built: 07/01/1968

Major Maint: 01 - State Highway Agency

Facility Carried: SR 82

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: CHIPPEWA CRK .67 MI W 21

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 08364 - BRECKSVILLE (CUY county)

Location: DISTRICT 12

3500 FT W BRECKSVILLE RD.

Resp A:

Insp

Resp B:

Inspector

Gerstenslager,Michael

Inspection Date

10/25/2022

Reviewer Seif,Youssef

**Inspector Comments - Deck and Approach**

**Deck**

**Approach**

**Approach Embankment**

Deep erosion behind both outlet headwalls. Areas of slipping to south embankment. *Note: depth of fill over culvert is greater than 30'.*

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Culvert**

**Culvert Scour**

Entire vertical face of outlet headwall footer is exposed to air & flowing water (footer on shale). East & west ends of outlet headwall footer are slightly undermined. 3' deep scour hole at outlet.

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel Hydraulic Opening**

Rock, sediment & concrete throughout blocks as much as 3%.

**Channel**

**Channel Alignment**

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S-curve at inlet. Outlet creek flows along headwall.

**Scour Critical**

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**Pictures**