

Inspector: Miller, Jason  
 Inspection Date: 11/09/2022

Structure Number: 1801511  
 Facility Carried: SR10

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**CUY-00010-1685 (1801511)**

2: District 16000 - CLEVELAND (CUY county)  
 District 12

5A: Inventory Route 1 00010

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 SR10  
 6: Feature Ints RTA46 & CUT @ E 4TH ST  
 9: Location APPROX 1MI E W25TH ST  
 Lat, Lon 41.493708555 , -81.686793334

Condition	Structure Type
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**58: Deck** **5 - Fair Condition**  
 58.01 Wearing Surface 6 - Satisfactory (1-10% distress)  
 58.02 Joint N- Not Applicable  
**59: Superstructure** **5 - Fair Condition**  
 59.01 Paint & PCS N - Not Applicable  
**60: Substructure** **5 - Fair Condition**  
**61: Channel** **N**  
 61.01 Scour **N - Not Applicable**  
**62: Culverts** **N - Not Applicable**

43: Bridge Type 2 - Concrete continuous  
 04 - Tee Beam  
 N- Not Applicable  
 45: Spans Main / Approach 5 / 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)  
 2- MicroSilica

67.01 GA 5

Appraisal	422: WS Date
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Sufficiency Rating 72.3 SD/FO 2 - FO  
 36: Rail, Tr, Gd, Term Std 1 N N N  
 72: Approach Alignment 8 - Equal to present desirable criteria  
 113: Scour Critical N - Not over waterway  
 71: Waterway Adequacy N - Not Applicable

10/01/2002  
 423: WS Thick (in) 2.0  
 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 4 - Spread Footing (on soil)  
 539: Foundn: Pier 2 4 - Spread Footing (on Soil)

Geometric	Age and Service
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48: Max Span Length (ft) 35.0  
 49: Structure Length (ft) 156.0  
 52: Deck Width, Out-To-Out (ft) 193.0  
 424: Deck Area (sf) 30108  
 32: Appr Roadway Width (ft) 165.0  
 51: Road Width, Curb-Curb (ft) 165.0  
 50A: Curb/SW Width: Left (ft) 6.8  
 50A: Curb/SW Width: Right (ft) 18.1  
 34: Skew (deg) 14  
 33: Bridge Median 3 - Closed median with non-mountable barriers  
 54B: Min Vert Underclearance (ft) 17.17  
 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	Inspections
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27: Year Built/ 106 Rehab 1932 / 1982  
 42A: Service On 5 - Highway-pedestrian  
 42B: Service Under 2 - Railroad  
 28A: Lanes on 08  
 28B: Lanes Under 00  
 19: Bypass Length 1  
 29: ADT 13835  
 109: % Trucks (%) 7

Load Posting	Inspections
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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 (%) 125

Inspections	Inspections
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90: Routine Insp.	12	11/09/2022
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 12/12/2019 Inspector Miller,Jason  
63: Analysis Method 8 - Load and Resistance Factor Rating  
(LRFR) rating report by rating factor (RF)  
method using HL-93 loadings.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	31806	sq. ft.	28506	2500	800	0
<p>CS2- Leaching cracks with efflorescence. Other cracks.</p> <p>CS3- Isolated heavy spalling with exposed reinforcement, primary bars exposed exhibit up to 1/16" section loss. Delams. Leaching map cracks with heavy efflorescence build up.</p>							
<b>510-Wearing Surfaces</b>		14280	sq. ft.	10680	3200	400	0
<p>CS2- Moderate cracks. Moderate Map cracking, typical throughout. Minor delams. Concrete patches.</p> <p>CS3- Wide cracks.</p>							
<b>105-Reinforced Concrete Closed Web/Box Girder</b>	3 - Mod.	139	ft.	30	104	5	0
<p>CS2- Leaching cracks with efflorescence. Delams.</p> <p>CS3- Isolated heavy spalling with exposed reinforcement. Bars exposed exhibit up to 1/16" section loss.</p>							
<b>110-Reinforced Concrete Open Girder/Beam</b>	3 - Mod.	2212	ft.	2035	111	66	0
<p>CS2- Leaching cracks with efflorescence. Delams.</p> <p>CS3- Isolated heavy spalling with exposed reinforcement. Bars exposed exhibit up to 1/16" section loss.</p>							
<b>205-Reinforced Concrete Column</b>	3 - Mod.	67	each	45	14	8	0
<p>CS2- Leaching cracks with efflorescence. Small delams or spalls.</p> <p>CS3- Spalls with exposed reinforcement. Large delams.</p>							
<b>210-Reinforced Concrete Pier Wall</b>	3 - Mod.	855	ft.	701	86	60	8
<p>CS2- Moderate cracks, some thru. Small spalls &lt; 6" in diameter.</p> <p>CS3- Spalls. Spalls with exposed reinforcement. Large delams.</p> <p>CS4- Large spalled area to P4 with exposed rebar, some with 360° exposure.</p>							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	433	ft.	308	90	35	0
<p>CS2- Moderate vertical cracks with active seepage and saturated adjacent concrete. Areas of efflorescence. Large delams</p> <p>CS3- Spalls with exposed reinforcement. Cracks with heavy efflorescence build up.</p>							
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	10820	sq. ft.	10510	250	60	0
<p>Paved over with asphalt.</p> <p>CS2- Cracks in asphalt. Asphalt patches in forward EB lanes.</p> <p>CS3- Heavy cracking along forward joint.</p>							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	423	ft.	411	12	0	0
CS2- Some moderate cracks.							
<b>815-Drainage</b>	3 - Mod.	2	each	2	0	0	0
<b>840-Approach Slab: Termination or Joint</b>	3 - Mod.	84	ft.	59	21	4	0
CS2- Forward is humped in areas, moderate cracks. CS3- Minor potholes to forward.							

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ODOT District: District 12	Facility Carried: SR10	Traffic On: 5 - Highway-pedestrian	Date Built: 07/01/1932
Major Maint: 01 - State Highway Agency	Feature Inters: RTA46 & CUT @ E 4TH ST	Traffic Under: 2 - Railroad	Rehab Date: 01/01/1982
Routine Maint: 04 - City or Municipal Highway Agency	Location: DISTRICT 12	APPROX 1MI E W25TH ST	Insp. 01 - State Highway Agency
FIPS Code: 16000 - CLEVELAND (CUY county)	Inspector Miller,Jason	Inspection Date 11/09/2022	Reviewer Seif,Youssef

**Inspector Comments - Deck and Approach**

**Deck**

**Curbs/Sidewalk**

Minor cracks & scaling to north sidewalk.

**Approach**

**Approach Wearing Surface**

Wide transverse cracks along forward relief joint. Other cracks. Areas of asphalt break up along deck ends.

**Signs**

No bridge end markers.

**Inspector Comments - General Appraisal**

**Superstructure**

**Diaphragm/X-Frames**

Leaching cracks. Stalactites. Localized advanced spalling with exposed reinforcement. The most advanced deterioration typically occurs below leaking utilities. A few areas of rust severed stirrups.

**Utilities**

Advanced deterioration to bay 4 utility vault (thru hole in span 1) with localized advanced section loss of exposed reinforcement.

**Substructure**

**Wingwalls**

Cracks, as wide as 1/8", with active seepage & light efflorescence to southeast, southwest & northwest wingwalls.

**Culvert**

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**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**

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**Pictures**