

Inspector: Gerstenslager,Michael

Inspection Date: 12/06/2023

Structure Number: 1808222

Facility Carried: SR 2

Ohio Bridge Inspection Summary Report

CUY-00002-1705 (1808222)

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

5A: Inventory Route 1 00002

21: Major Maint A/B 01 - State Highway Agency /
225 Routine Main A/B 01 - State Highway Agency /
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 12

7: Facility On SR 2
6: Feature Ints IR-90 (SR-2 1705)
9: Location JCT. SR-2
Lat, Lon 41.516781 ,-81.675428

Condition	Structure Type
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58: Deck **8 - Very Good Condition**
58.01 Wearing Surface 8 - Very Good (isolated or minor problems)
58.02 Joint N- Not Applicable
59: Superstructure **7 - Good Condition**
59.01 Paint & PCS 4 - Poor PCS (15-20% corr.)
60: Substructure **6 - Satisfactory Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**
67.01 GA **6**

43: Bridge Type 4 - Steel continuous
02 - Stringer/Multi-beam or Girder
N- Not Applicable
45: Spans Main / Approach 4 / 0
107: Deck Type 1 - Concrete Cast-in-Place
408: Composite Deck N - Non-composite Construction
414A Joint Type 1 N - None
414B: Joint Type 2 N - None
108A: Wearing Surface 3 - Latex Concrete or similar additive
N- Not Applicable

Appraisal

Sufficiency Rating 93.5 SD/FO 2 - FO
36: Rail, Tr, Gd, Term Std 1 1 1 1
72: Approach Alignment 8 - Equal to present desirable criteria
113: Scour Critical N - Not over waterway
71: Waterway Adequacy N - Not Applicable

422: WS Date 07/01/1983
423: WS Thick (in) 1.2
482: Protective Coating A - EEU
483: PCS Date 01/01/1987
453: Bearing Type 1 C - Elastomeric (laminated)
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 0 - Other

Geometric

48: Max Span Length (ft) 70.0
49: Structure Length (ft) 203.0
52: Deck Width, Out-To-Out (ft) 85.1
424: Deck Area (sf) 17275.3
32: Appr Roadway Width (ft) 78.0
51: Road Width, Curb-Curb (ft) 78.0
50A: Curb/SW Width: Left (ft) 0
50A: Curb/SW Width: Right (ft) 0
34: Skew (deg) 4
33: Bridge Median 3 - Closed median with non-mountable barriers
54B: Min Vert Underclearance (ft) 15.06
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

27: Year Built/ 106 Rehab 1959 / 0000
42A: Service On 1 - Highway
42B: Service Under 1 - Highway, with or w/out pedestrian
28A: Lanes on 04
28B: Lanes Under 06
19: Bypass Length 2
29: ADT 17069
109: % Trucks (%) 3

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 07/01/1973
63: Analysis Method 7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

Inspections

	Months	
90: Routine Insp.	12	12/06/2023
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

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	17272	sq. ft.	16321	864	87	0
CS 2: A few transverse cracks, some leaching. CS 3: 1 sf spall with exposed rebar at rear in bay 8. A few haunch spalls and delaminations over both slopes.							
510-Wearing Surfaces		15834	sq. ft.	15584	250	0	0
CS 2: Minor cracks.							
107-Steel Open Girder/Beam	3 - Mod.	2233	ft.	536	1675	22	0
CS 2: Scrapes and gouges to lower flanges of beams 1 and 2 over Westbound traffic rear slope. Surface rust scattered throughout. CS 3: A few areas of section loss to bottom flanges.							
515-Steel Protective Coating		19740	sq. ft.	0	18103	987	650
CS 2: Chalking and faded paint throughout. CS 3: Surface rust scattered throughout. CS 4: Isolated areas of peeling top and primer coats mainly to flanges.							
205-Reinforced Concrete Column	3 - Mod.	21	each	7	10	4	0
CS 2 (delaminations)- P1C1 P1C4-C6 P2C3 P3C4-C7 CS 3 (spalls)- P1C2&C3 P2C7 P3C3							
521-Concrete Protective Coating		2478	sq. ft.	2458	0	0	20
215-Reinforced Concrete Abutment	3 - Mod.	171	ft.	136	22	13	0
CS 2: Cracks. Small rust stains. Forward construction joint is open 1.5" and offset 1". Area of honeycombing in forward bays 8 and 9. Evidence of leakage to rear in bays 2 and 3 and forward in bays 8 and 9. CS 3: 5' spall with exposed rebar at rear above bay 10.							
521-Concrete Protective Coating		393	sq. ft.	373	0	0	20
CS 4- Sealer failed at spalled and cracked areas.							

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234-Reinforced Concrete Pier Cap	3 - Mod.	256	ft.	248	8	0	0
CS 2: A few cracks, shallow delams. Small rust stain above P2C7 on West face of cap.							
521-Concrete Protective Coating		3608	sq. ft.	3608	0	0	0
310-Elastomeric Bearing	3 - Mod.	33	each	33	0	0	0
312-Enclosed/Concealed Bearing	3 - Mod.	22	each	22	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	3120	sq. ft.	3089	31	0	0
CS 2: Diagonal crack at rear in Westbound lane 1. A few other cracks.							
331-Reinforced Concrete Bridge Railing	3 - Mod.	609	ft.	579	30	0	0
CS 2: A few leaching cracks.							
521-Concrete Protective Coating		5485	sq. ft.	5385	0	0	100
CS 4- Isolated areas of peeling sealer,							
815-Drainage	3 - Mod.	4	each	4	0	0	0
840-Approach Slab: Termination or Joint	3 - Mod.	156	ft.	156	0	0	0

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ODOT District: District 12

CUY-00002-1705_(1808222)

Date Built: 07/01/1959

Major Maint: 01 - State Highway Agency

Facility Carried: SR 2

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: IR-90 (SR-2 1705)

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

JCT. SR-2

Resp A:

Inspector

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Inspection Date

12/06/2023

Reviewer

Seif,Youssef

Insp

Resp B:

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Edge of Floor/Slab (LF)

Cracks.

Bridge Median (LF)

A few leaching cracks. Areas of peeling sealer.

Approach

Approach Wearing Surface (EA)

Approach Guardrail (EA)

Collision damage to rear-left (WB) & rear-right (EB) with multiple broken posts.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

Old sign mount angles & brackets welded to fascia webs.

Diaphragm/X-Frames (EA)

Surface rust. Damaged xframe with broken weld at rear in bay 6. cracks to a few concrete diaphragms.

Fatigue (LF)

NOTE: Welded cover plates at piers have been retrofitted at top flange with bolted plates (bottom flange still welded).

utilities (lf)

Some conduits in left (north) bay are draped thru xframes & held in place with electrical wire. Collision damage to conduit on p1c1.

Substructure

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Pier Columns/Bents (EA)

Heavy impact damage to barrier at P1 is exposing C7 to potential impact.

Wingwalls (EA)

Small spall to fwd-left.

Slope Protection (EA)

Cracks.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures