

Ohio Bridge Inspection Summary Report

CUY-00090-2910 (1809008)

2: District 25704 - EUCLID (CUY county)
ict
12

5A: Inventory Route 1 00090

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 IR 90 OVER E. 260T
6: Feature Ints SR 175 (1446) E 260 ST
9: Location IR90 AND SR175 JCT
Lat, Lon 41.601303 ,-81.503039

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	5 / 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	7 - Good Condition	408: Composite Deck	N - Non-composite Construction
61: Channel	N	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)

67.01 GA 7

Appraisal	
Sufficiency Rating	83.0 SD/FO 0 - ND
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	01/01/1993
423: WS Thick (in)	1.2
482: Protective Coating	4 - Paint System B
483: PCS Date	01/01/1977
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	1 - Steel H Piles (Other size)
533: Foundn: Abut Rear	1 - Steel H Piles (Other Size)
536: Foundn: Pier 1	4 - Spread Footing (on soil)
539: Foundn: Pier 2	0 - Other

Geometric	
48: Max Span Length (ft)	62.0
49: Structure Length (ft)	266.0
52: Deck Width, Out-To-Out (ft)	142.0
424: Deck Area (sf)	37772
32: Appr Roadway Width (ft)	140.0
51: Road Width, Curb-Curb (ft)	140.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	37
33: Bridge Median	1 - Open median
54B: Min Vert Underclearance (ft)	14.83
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	1963 / 1993
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	08
28B: Lanes Under	06
19: Bypass Length	2
29: ADT	115513
109: % Trucks (%)	4

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.	24	11/24/2021
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	
92D: UBIT Insp.	N	0
92E: Drone Insp.		
Inspector	Gerstenslager,Michael	

Inspector: Michael Gerstenslager

Structure Number: 1809008

Inspection Date: 11/24/2021

Facility Carried: IR 90 OVER E. 260T

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	37772	sq. ft.	29207	8500	65	0
	CS2- Transverse leached cracks at 3' spacing. Some mottled areas. CS3- Spalls, mainly to haunches.						
805 - Wearing Surface - Monolithic Concrete		37240	sq. ft.	29140	8100	0	0
	CS2- Cracks and minor delams. Shallow pop outs along both expansion joints.						
107 - Steel Open Girder/Beam	3 - Mod.	4698	ft.	4503	125	70	0
	CS2- Surface rust scattered throughout, mainly to lower flanges CS3- Rusted section loss at some beam ends. Scrapes to lower flanges of beams 16-18 in span 2.						
515 - Steel Protective Coating		41201	sq. ft.	0	38731	2060	410
	CS2- Fading and dulling thru out. CS3- Peeling and bubbling paint, mostly to bottom flanges and fascia beams. CS4- Bare rusted metal						
205 - Reinforced Concrete Column	3 - Mod.	48	each	44	2	2	0
	CS2- P2C5- 4 SF spall with exposed rebar P4C4- 2 SF spall, 6 SF delam CS3- P2C4- 1 SF spall, 25 SF delam P4C3- 6 SF spall with exposed rebar, 5 SF delam						
215 - Reinforced Concrete Abutment	3 - Mod.	356	ft.	209	135	12	0
	CS2- Cracks, a few leaching. CS3- Spalls/ delams.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	712	ft.	674	35	3	0
	CS2- Some cracks. CS3- delam to P4 under beam 9.						
300 - Strip Seal Expansion Joint	3 - Mod.	276	ft.	180	88	4	4
	CS2- Cracks to ExJt headers. Joint filled with debris. CS3-Rear strip seal has tears in WB lane #4 & low speed berm. Collision damage to forward WB armor with torn seal in lane 3 CS4- Joint armor is damaged and compressed down and cover in asphalt at forward wb lanes.						

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Element Inspection

311 - Movable Bearing	3 - Mod.	100	each	51	33	16	0
<p>CS2- The following bearings have missing keeper plates and exhibit no lateral movement- (Rear abutment- 1,2,8,9,10,11,17,18)(Pier 1- 8,9,10,11)(Pier 2- 1,2,8,9,10,11,17,18)(Pier 4- 1,2,8,9,10,11,17,18)(Forward abutment- 1,2,8,9,10,11,17,18)</p> <p>CS3- The following bearings have missing keeper plate and have up to 1/2" of lateral movement- (Rear abutment- 1,2,9,18)(Pier 1- 8,9)(Forward abutment- 1,2,17,18). Rusting section loss to some abutment bearings(Rear 1,2,3,10)(Forward 1,5,9,14,16)</p>							
313 - Fixed Bearing	3 - Mod.	8	each	8	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	6900	sq. ft.	6900	0	0	0
Paved over with asphalt							
331 - Reinforced Concrete Bridge Railing	3 - Mod.	1064	ft.	654	385	25	0
<p>CS2- Many vertical and horizontal cracks.</p> <p>CS3- Spalls and delams.</p>							
815 - Drainage	3 - Mod.	4	each	2	2	0	0
CS2- Dirt and debris along both low speed rails.							
830 - Abutment Backwall	3 - Mod.	356	ft.	286	63	7	0
<p>CS2- Cracks, some are leaching.</p> <p>CS3- A few spalls. Wide crack to forward bay 5.</p>							

ODOT District: District 12

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Traffic On: 1 - Highway

Rehab Date: 01/01/1993

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Feature Inters: SR 175 (1446) E 260 ST

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

Insp. 01 - State Highway Agency

FIPS Code: 25704 - EUCLID (CUY county)

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IR90 AND SR175 JCT

Resp A:

Insp

Resp B:

Inspector

Gerstenslager,Michael

Inspection Date 11/24/2021

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Spalls forming over traffic- SB#2 south bay and bay 9, Ramp lane to north lakeland Bay 9 and 15.

Approach

Approach Wearing Surface (EA)

Like new condition

Approach Guardrail (EA)

Cracks, spalls and delams to all concrete approach parapets, worst is forward right. 2 SF spall to exterior of forward left parapet. Collision damage to rear right.

Signs (EA)

Damage to forward-left bridge end marker. No markers on median wall.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

Note: open bolt holes in web of beams 5, 6, 13 & 14.

Diaphragm/X-Frames

Surface rust throughout. Heavy endframe rusting section loss with rusting thru holes in rear bays 2 & 8, and forward in bay5 and 15. A few bent angles throughout. Cracks to rear concrete diaphragms.

Fatigue (LF)

Welded moment plates over piers 2-4.

Utilities (LF)

Note: Utility cables hang low next to P4.

Substructure

Wingwalls (EA)

Cracks. Forward right and both rear cheekwalls are spalled & delaminated (rear-left has exposed rebar).

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical