Inspector: Banaszak,Ken **Structure Number:** 1807730

Inspection Date: 09/29/2022 Facility Carried: DETROIT RD - SR254

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

70.02: Sign Type

CUY-00002-0597 (1807730)

2: DistrictDistr 68056 - ROCKY RIVER (CUY county) ict 12			5A: Inventory R	oute 1	0000	2			
21: Major Maint A/B	01 - State Highw		/	7: Facility On	DETROIT F	RD - SR254			
225 Routine Main A/B 04 - City or Municipal Highway /			/	6: Feature Ints					
Agency 221 Inspection A/B 01 - State Highway Agency /			9: Location IR90 AND JCT SR254						
220: Inv. Location DISTRICT 12			Lat, Lon 41.472528 ,-81.857206						
	Condition	<u> </u>			Str	ucture Ty	pe		
58: Deck	5 - Fair Con	dition		43: Bridge T		el continuo	•		
		ory (1-10% distress)		3			inger/Multi-beam or Girder		
•		y leaking, offset)		N- Not Applicable					
59: Superstructure			dition		45: Spans Main / Approach 3				
59.01 Paint & PCS	•		5% corr.)		ype	1 - Concrete Cast-in-Place			
60: Substructure	4 - Poor Co	·		408: Composite Deck		N - Non-composite Construction			
61: Channel	N			414A Joint Type 1		2 - Sliding Metal Plate Angle			
61.01 Scour	N - Not App	licable		414B: Joint Type 2		N - None			
62: Culverts	••			108A: Wear	I Concrete (separate ied layer of concrete structural deck)				
67.01 GA	67.01 GA 4				Plasticized				
	Appraisa			422: WS Da		07/01/1999 2.0			
Sufficiency Rating	Sufficiency Rating 45.6 SD				423: WS Thick (in) 482: Protective Coating		5 - Paint System OZEU		
36: Rail, Tr, Gd, Term St	36: Rail, Tr, Gd, Term Std 1 1 1 1			483: PCS D		09/22/2000			
72: Approach Alignment	72: Approach Alignment 8 - Equal to present desirable criteria			453: Bearing		2 - Rockers & Bolsters			
113: Scour Critical N - Not over waterway			455: Bearing Type 2		N - None				
71: Waterway Adequacy	71: Waterway Adequacy N - Not Applicable				n: Abut Fwd	2 - Cast-in-Place Reinforced			
	Geometri						Piles (Other diameter)		
48: Max Span Length (ft))	94.0		533: Found	n: Abut Rear		-Place reinforced Piles (Other diameter)		
49: Structure Length (ft)		249.0		536: Foundn: Pier 1		2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)			
52: Deck Width, Out-To-Out (ft)		68.0		539: Foundn: Pier 2		0 - Other			
424: Deck Area (sf)		16932			Age	and Service			
32: Appr Roadway Width	n (ft)	54.0		27: Year Built/ 106 Reha		ab 1977 / 0000			
51: Road Width, Curb-Curb (ft)		54.0		42A: Service On		5 - Highway-pedestrian			
50A: Curb/SW Width: Left (ft)		6		42B: Service	42B: Service Under		1 - Highway, with or w/out pedestrian		
50A: Curb/SW Width: Right (ft)		6		28A: Lanes on		04			
34: Skew (deg)		45		28B: Lanes Under		06			
33: Bridge Median		0 - No median		19: Bypass Length		3			
54B: Min Vert Underclearance (ft)		14.51		29: ADT		9734			
336A: Min Vert Clrnce IR Cardinal (ft) 99		109: % Truc	ks (%)	4					
336B: Min V Clr IR Non-Cardinal (ft) 0			Inst	ections					
578: Culvert Length (ft)		0				Months			
Load Posting			90: Routine	Insp.	12	09/29/2022			
41: Op/Post/Closed A - Open			92A: FCM I	nsp. N	0				
70: Posting 5 - Equal to or above legal loads			92B: Dive Ir	•	0				
70.01: Date				92C: Specia					
				OOD: LIDIT I	non N	0			

92D: UBIT Insp.

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Inspector: Banaszak,Ken Structure Number: 1807730

09/29/2022 DETROIT RD - SR254 Inspection Date: **Facility Carried:**

Bridge Inspection Report

92E: Drone Insp. 0 734: Percent Legal (%) 150 Ν

704: Analysis Date 08/11/2020 Banaszak,Ken Inspector

63: Analysis Method

8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Inspector: Banaszak,Ken **Structure Number:** 1807730

Inspection Date: 09/29/2022 Facility Carried: DETROIT RD - SR254

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12-Reinforced Concrete Deck	3 - Mod.	16932	sq. ft.	11194	4230	1500	8	
	CS 2 - Cracks. CS 3 - Delams, spalls (mostly over WB traffic). Rear-right corner spalled off. Wide cracks.							
	CS 4 - Two spa	lls in span 2	2 with 4	or more reba	ar exposed.			
510-Wearing Surfaces		13446	sq. ft.	11796	1575	75	0	
	CS 2 - A few shallow spalls. Map cracks and other cracks. CS 3 - Some wide cracking.							
107-Steel Open Girder/Beam	3 - Mod.	1944	ft.	1829	100	15	0	
	CS 2 - Scrapes & gouges as deep as 1/2" and drilled out crack to right fascia over EB lane 3. Other scrapes to beam 7 over EB lane 3. CS 3 - Isolated areas of moderate rusted section loss.							
515-Steel Protective Coating		23134	sq. ft.	11534	10000	1260	340	
	CS 3 - Peeling & blistering paint, surface rust. CS 4 - Fire damage at forward abutment, left fascia.							
205-Reinforced Concrete Column	3 - Mod.	10	each	2	2	3	3	
	CS 3 - Smaller delams, moderate map cracking, and failing patchwork. CS 4 - P2:C2, 4+ continuous rebars exposed. P2:C3, 4+ continuous rebar strands exposed. P1:C5, Severe and deep delaminations beginning to spall in excess of 15 SqFt.							
215-Reinforced Concrete Abutment	3 - Mod.	192	ft.	176	10	6	0	
	CS 2 - Cracks.	Some scalir	ng.					
	CS 3 - Spall/delaminated area at rear.							
234-Reinforced Concrete Pier Cap	3 - Mod.	180	ft.	130	10	40	0	
	CS 2 - Diagonal crack to left cantilever and other wide cracks to top of cap. CS 3 - Crack as deep as 3" and 1" wide on South face of P1 above C5, large delam with shear-type crack to right cantilever of P1. Large delams on P2 cap.							
305-Assembly Joint without Seal	3 - Mod.	136	ft.	0	91	10	35	
	CS 2 - Areas of tar and debris in joints. Some minor rusting. CS 3 - Gouges to armor. CS 4 - Areas of header spalled out and asphalt patched. Rusting thru holes as large as 2" x 24" to all four sidewalk cover plates.							

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Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
311-Movable Bearing	3 - Mod.	24	each	0	8	16	0	
	CS 2 - Minor pack rust between most masonry plates & rockers at abutment. CS 3 - Pack rust to abutment rockers.							
313-Fixed Bearing	3 - Mod.	8	each	0	8	0	0	
	CS 2 - All have surface rust.							
321-Reinforced Concrete Approach Slab	3 - Mod.	2700	sq. ft.	2160	450	60	30	
	CS 2 - Other cracks. CS 3 - Cracks as wide as 1/2" at rear. CS 4 - Asphalt patches.							
331-Reinforced Concrete Bridge Railing	3 - Mod.	588	ft.	373	215	0	0	
	CS 2 - Cracks. Rust stains.							
	CS 3 - Spalls & delams.							
815-Drainage	3 - Mod.	12	each	0	7	5	0	
	CS 2 - Partially	plugged sc	uppers.					
CS 3 - Scuppers beginning to plug.								
830-Abutment Backwall	3 - Mod.	192	ft.	171	15	6	0	
	CS 2 - Leached	cracks.						
	CS 3 - Large sp	all in rear b	ay 5. De	elams. Other	spalls.			

Inspector: Banaszak,Ken Structure Number: 1807730

09/29/2022 **DETROIT RD - SR254** Inspection Date: Facility Carried:

Bridge Inspection Report

CUY-00002-0597 _(1807730)

Major Maint: 01 - State Highway Agency

Facility Carried: DETROIT RD - SR254

Traffic On: 5 - Highway-pedestrian

Date Built:

Resp B:

ODOT District: District 12

Routine Maint: 04 - City or Municipal Highway Agency
FIPS Code: 68056 - ROCKY RIVER (CUY county)

Inspector

Feature Inters: IR-90(CUY-90-0595)

Banaszak.Ken

Location: DISTRICT 12

Traffic Under: 1 - Highway, with or w/out pedestrian IR90 AND JCT SR254 Inspection Date 09/29/2022 Reviewer Seif, Youssef

Insp. 01 - State Highway Agency Resp A: Insp

07/01/1977

<u>Inspector Comments - Deck and Approach</u>

Deck

Floor/Slab (SF)

Spalls over Westbound traffic in bay 1 over lane 1, bay 7 over high speed berm and bay 4 over lane 2. Spalls over Eastbound traffic in bay 7 over lane 3 and bay 4 over lane 2 and bay 6 over lane 2.

Curbs/Sidewalk (LF)

Cracks. Concrete patches. Scaling. Delams. Spall with exposed rebar to left curb near forward. Other spalls.

Approach

Approach Wearing Surface (EA)

A few sealed cracks.

Approach Guardrail (EA)

Some rusting through holes to rails. Post rot.

Signs (EA)

No bridge end markers.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Superstructure Alignment (EA)

Right fascia bent 1" east over EB traffic (at old collision damage).

Diaphragm/X-Frames (EA)

Rusted section loss with rusted thru holes in forward bays 1 & 7 and rear bay 7. Collision damage to horizontal angle in bay 7 over EB lane 3.

<u>Utilities (LF)</u>

Some disconnected conduits in bays 6. Some broken straps. Disconnected junction box laying on P2 in bay 1. Rusting section loss to hardware. Under bridge lighting at rear abutment is missing 1 lamp & another is hanging from wire.

Inspector:Banaszak,KenStructure Number:1807730Inspection Date:09/29/2022Facility Carried:DETROIT RD - SR254

Bridge Inspection Report

Fencing

Bent post to left rail over WB lane 1. Broken post to right rail over WB low speed berm. Fence posts at forward right removed by accident damage.

Substructure

Slope Protection (EA)

Slight uneven settlement at forward.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

Inspector: Ken Banaszak **Structure Number:** 1807730

Inspection Date: 09/29/2022 Facility Carried: DETROIT RD - SR254

Bridge Inspection Report

Pictures