Inspector:	Ropelewski,Ro	bert	Structure Number	: 1808	133	
Inspection Date: 07/26/2023		Facility Carried:	HAM	HAMILTON AVE.		
<u>Ohio Bridge Ins</u>	pection Su	Immary Report		<u>CUY-(</u>	<u>)0090-179</u>	<u>94 (1808133)</u>
2: DistrictDistr 16000 - C ict 12	LEVELAND (CU	Y county)	5A: Inventory Ro	oute 1	03774	
21: Major Maint A/B 225 Routine Main A/B	01 - State Highw 04 - City or Muni	ay Agency / cipal Highway /	7: Facility On 6: Feature Ints	HAMILTON	I AVE.	
221 Inspection A/B	Agency 01 - State Highw	av Agency /	9. Location	26 ML E ()F.ICT US-6	
220: Inv. Location DIS	TRICT 12	ay rigonoy	Lat, Lon	41.513488	,- [;]	81.673285
	Conditio	1		Str	ucture Type	•
58: Deck	6 - Satisfac	tory Condition	43: Bridge T	vpe 4 - Ste	el continuous	
58.01 Wearing Surface	e 6 - Satisfact	ory (1-10% distress)	<u>2</u>	02 - S	tringer/Multi-be	eam or Girder
59: Superstructure	6 - Satisfac	tory Condition	45. Spans M	lain / Approa	ch 2	/ 0
59.01 Paint & PCS	6 - Satisfact	ory (5-10% corr.)	107: Deck T	vpe	1 - Concrete	Cast-in-Place
60: Substructure	6 - Satisfac	tory Condition	408: Compo	site Deck	N - Non-com	posite Construction
61: Channel	Ν		414A Joint T	ype 1	2 - Sliding Me	etal Plate Angle
61.01 Scour	N - Not App	licable	414B: Joint	Туре 2	N - None	C C
62: Culverts	N - Not App	licable	108A: Wear	ing Surface	2 - Integral Contract Integral Contract	oncrete (separate layer of concrete ictural deck)
67.01 GA	6				N- Not Applic	able
	Appraisa		422: WS Da	te	01/01/2001	
Sufficiency Rating	95.9	SD/FO 2 - FO	423: WS Th	ick (in)	2.0	~ t
36: Rail, Tr, Gd, Term St	d 1 N	N N		ive Coaling	0 - Other Pair	n
72: Approach Alignment 8 - Equal to present desirable criteria		a 453: FC3 D 453: Bearing	ale 1 Type 1	3 - Sliding (B	ronze)	
113: Scour Critical	N - Not over	waterway	455: Bearing	Type 2	N - None	101120)
71: Waterway Adequacy	N - Not App	licable	528: Foundr	n: Abut Fwd	2 - Cast-in-Pl	ace Reinforced
	Geometri	C	522: Foundr	Abut Boor	Concrete Pile	es (Other diameter)
48: Max Span Length (ft)		71.0	533. Found	i. Abul Rear	Concrete Pile	es (Other diameter)
49: Structure Length (ft)		152.0	536: Foundr	n: Pier 1	2 - Cast-in-Pl Concrete Pile	ace Reinforced es (Other diameter)
52: Deck Width, Out-To-	Out (ft)	47.0	539: Foundr	n: Pier 2	4 - Spread Fo	ooting (on Soil)
424: Deck Area (sf)		7144		Age	and Servic	e
32: Appr Roadway Width	n (ft)	35.0	27: Year Bu	ilt/ 106 Rehal	b 1959	/ 0000
51: Road Width, Curb-Cu	urb (ft)	35.0	42A: Service	e On	1 - Highway	/
50A: Curb/SW Width: Le	ft (ft)	6	42B: Service	e Under	1 - Highway pedestrian	/, with or w/out
50A: Curb/SW Width: Rig	ght (ft)	6	28A: Lanes	on	02	
34: Skew (deg)		16	28B: Lanes	Under	08	
33: Bridge Median		0 - No median	19. Буразы 29: ДПТ	Lengun	1000	
54B: Min Vert Underclea	rance (II)	16	109 [.] % Truc	ks (%)	0	
336B: Min V Clr IR Non-	Cardinal (II)	99				
578: Culvert Length (ft)	Garaniai (it)	0		Insp	ections	
[Load Posti		90. Routine	Insp	Months 12	07/26/2023
		ig	92A: FCM Ir	nsp. N	0	01720/2020
70: Posting 5 - Equal	A - Open to or above legal	loads	92B: Dive In	sp. N	0	
70.01: Date	to of above legal	10000	92C: Specia	l Insp. N	0	
70.02: Sign Type			92D: UBIT I	nsp. N	0	
734: Percent Legal (%)	150		92E: Drone	nsp. N	0	
704: Analysis Date	07/01/1973		Inspector	Ropelewski,l	Robert	
	6 - Load Fact	or (LF) rating reported by	у			

Inspector:	Ropelewski, Robert	Structure Number:	1808133
Inspection Date: 63: Analysis Method	07/26/2023 rating factor (RF) method using MS18 loading.	Facility Carried:	HAMILTON AVE.

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		Tatal		C a m aliti a m	Condition	C a malifi a m	0
	Environment	Quantity	Units	State 1	State 2	State 3	State 4
12-Reinforced Concrete Deck	3 - Mod.	6525	sq. ft.	4545	1000	980	0
	Note: Floor is timber sub-decked. Forward-right (NW corner of deck is touching backwall).						
	CS2- Epoxy sm	leared area	s. Leacł	ning cracks. I	Delamination	'S.	
	CS3- Spalls. Mottled areas. Two patched through holes with 4' of 360 degree rebar exposure.						
805-Wearing Surface - Monolithic Concrete		4794	sq. ft.	3044	1750	0	0
	CS2 - Transver	se cracks. I	Map cra	cks thru out.	Other cracks	i.	
107-Steel Open Girder/Beam	3 - Mod.	1025	ft.	917	80	28	0
	CS2- Areas of s	surface rust					
	CS3- Section lo	ss to beam	ends a	t abutments.		1	1
515-Steel Protective Coating	000 1111	11504	sq. ft.	0	9204	1725	575
	CS2 - Light sur	face rust. S	urface d	lulling.			
	CS3 - Blistered	paint with r	ust und	erneath. Pee	ling paint coa	ats.	
	CS4 - Unprotec	ted steel.					
205-Reinforced Concrete Column	3 - Mod.	4	each	4	0	0	0
521-Concrete Protective Coating		560	sq. ft.	560	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	98	ft.	82	10	6	0
5	CS2 - Cracks, s	some epoxy	injecte	d. Delams.			
	CS3 - Small spa	alls to rear s	seat at b	eams 2 & 4.			
521-Concrete Protective Coating		1470	sq. ft.	1465	0	0	5
	CS4- Not effect	ive					
234-Reinforced Concrete Pier Cap	3 - Mod.	56	ft.	41	8	7	0
	CS2 - Few crac	ks. Delam	s to bott	om of cap.			
	CS3 - Spall with	n exposed r	ebar ab	ove eastside	of C4.		
521-Concrete Protective Coating		412	sq. ft.	412	0	0	0
305-Assembly Joint without Seal	3 - Mod.	94	ft.	0	0	24	70
	CS3- Heavy rusting section loss, mainly to sidewalk ExJts. Gouges to armor. Plow damage to rear-right curb plate (nearly severed). Water leaking through joint between rear abutment & rear-left wingwall.						
	CS4 - Both joints closed at 80°f. Thru holes at rear-right & forward-right curbs. Riser bar missing in areas. FWD exit header has been paved over with asphalt that has cracks.						urbs. Riser that has
311-Movable Bearing	3 - Mod.	14	each	0	0	14	0
	CS3 - Debris & bearings are pa bearing.	rust engulf ist design tr	most at avel lim	outment bear its. Most abu	ings. Heavy i tment bearin	rusting. All at gs are only p	outment artially
313-Fixed Bearing	3 - Mod.	7	each	0	7	0	0
	CS2 - Surface r	ust to pier b	bearings	6.			

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
321-Reinforced Concrete Approach Slab	3 - Mod.	1750	sq. ft.	1750	0	0	0
	Note: Paved over with asphalt						
331-Reinforced Concrete Bridge Railing	3 - Mod.	277	ft.	130	147	0	0
	CS2- Many leaching cracks.						
521-Concrete Protective Coating		1662	sq. ft.	1637	0	0	25
	CS4- Not effective						
815-Drainage	3 - Mod.	4	each	0	0	0	4
	CS4 - Water ha berms in bays 1 debris). Hopper	s overflowe & 6 at both in forward	d from f abutm bay 1 h	filled hoppers ents (these f as fallen ove	s & flowed do our hoppers r.	wn abutmen are plugged	t walls onto with dirt &
830-Abutment Backwall	3 - Mod.	98	ft.	57	15	20	6
	 Beams into both backwalls. CS2 - Leaching cracks. Long horizontal crack from bay 1 to bay 5. CS3 - Both backwalls have deep spalls exposing some exit anchorage (rear has 5' of 360° rebar exposure). Rear has broken up areas in bays 1 and 6 around water lines. CS4 - Thru holes under north and south curb at rear. 						
521-Concrete Protective Coating		225	sq. ft.	175	0	0	50
	CS4- Not effect	ive					

Inspec Inspec	ctor: ction Date:	Ropelew 07/26/20	ski, Robert)23		Structure Nui Facility Carrie	mber: ed:	1808133 HAMILTON AV	√E.	
ODOT District:	District 12		(CUY-00090-17	794 _(1808 [,]	133)		Date Built:	07/01/1959
Major Maint:	01 - State Highway Ag	ency	Facility Carried:	HAMILTON AVE.	Traffic On:	1 - Highway		Rehab Da	te:
Routine Maint:	04 - City or Municipal H	Highway	Feature Inters:	IR 90	Traffic Under:	1 - Highway, with	or w/out	Insp. Resp A	01 - State Highway Agency
FIPS Code:	16000 - CLEVELAND	(CUY county)		Location: DISTRICT 12	.26 MI. E	E. OF JCT. US-6		Insp Roop P:	
	Inspect	or Rope	elewski,Robert	Inspection Date 07/2	26/2023 F	Reviewer Seif, You	ussef	Kesh D.	
		<u> </u>	nspector	<u>r Comments -</u>	Deck and	Approad	<u>:h</u>		

<u>Deck</u>

Inspection Note: East is rear.

Floor

Spall forming over WB #4 lane on south deck edge.

Curbs/Sidewalk

Minor delams & spalls to curbs, concrete.

Approach

Approach Wearing Surface

Approach Embankment

Advanced settlement with areas of concrete break up at all four approach walks. First sidewalk section at forward left has broken in half and settled several inches.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Horizontal angle of forward endframe #6 has two rusted thru holes. Forward endframe #1 is 90% rust severed. other rusting thru holes in endframes.

Fatigue

Welded moment plates at pier.

Utilities

Rusting section loss to supports at abutments & conduits.

Substructure

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Cracks, some leaching, some epoxy injected. Left wingwall has cracked at top & pulled away from rear abutment as much as 1" with water leaking thru joint.

<u>Culvert</u>

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical

Inspector: Robert Ropelewski

Inspection Date: 07/26/2023

Facility Carried:

1808133 HAMILTON AVE.

Bridge Inspection Report

Pictures