Inspector: Miller,Jason **Structure Number:** 1812971

Inspection Date: 06/21/2023 **Facility Carried:** SOUTHWOOD DRIVE

Ohio Bridge Inspection Summary Report CUY-00480-1216 (1812971)

2: District	District 12 09246 - BROOKLYN (CUY county)	5A: Inventory Route	1 02085
21: Major Maint A/B	01 - State Highway Agency /	7: Facility On	SOUTHWOOD DRIVE
225 Routine Main A/B	04 - City or Municipal Highway Agency /	6: Feature Ints	IR 480
221 Inspection A/B	01 - State Highway Agency /	9: Location	1.39 MI. W. OF JCT. US-42
220: Inv. Location	DISTRICT 12	Lat, Lon	41.424299 ,-81.751098

Condition

58: Deck	**6 - Satisfactory Condition**
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	4- Poor (heavy leaking, offset)
59: Superstructure	**6 - Satisfactory Condition**
59.01 Paint & PCS	2 - Critical PCS (30-40% corr.)
60: Substructure	**5 - Fair Condition**
61: Channel	**N**
61.01 Scour	**N - Not Applicable**
62: Culverts	**N - Not Applicable**
67.01 GA	**5**

Appraisal

Sufficiency Rating	70.9 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	N N 1 0
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	N - Not over waterway
71: Waterway Adequacy	N - Not Applicable

Geometric

48: Max Span Length (ft)	128.0
49: Structure Length (ft)	261.0
52: Deck Width, Out-To-Out (ft)	38.3
424: Deck Area (sf)	9996.3
32: Appr Roadway Width (ft)	39.0
51: Road Width, Curb-Curb (ft)	26.0
50A: Curb/SW Width: Left (ft)	5
50A: Curb/SW Width: Right (ft)	5
34: Skew (deg)	21
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	16.12
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

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	07/01/1986
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Structure Type

43: Bridge Type	4 - Steel continuous
	02 - Stringer/Multi-beam or Girder
	N- Not Applicable
45: Spans Main / Approach	2 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	N - Non-composite Construction
414A Joint Type 1	3 - Compression Seal
414B: Joint Type 2	N - None
108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
	N- Not Applicable
422: WS Date	07/01/1985
423: WS Thick (in)	1.2
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	01/01/1991
453: Bearing Type 1	4 - Elastomeric (Plain)
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

Age and Service

27: Year Built/ 106 Rehab	1985 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	08
19: Bypass Length	1
29: ADT	1000
109: % Trucks (%)	0

Inspections

		Months	
90: Routine Insp.		12	06/21/2023
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	

Inspector Miller,Jason

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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.	9983	sq. ft.	8833	1020	130	0
	CS2- Transverse cracks, some are leaching. Areas of moderate pattern map cracking. CS3- Spalls and delmaniated areas. Areas of exposed rebar with section loss.						
805-Wearing Surface - Monolithic Concrete		6786	sq. ft.	5626	1150	10	0
	CS2- Shallow spalls, mainly along expansion joints. A few moderate transverse cracks. Scaling to tine lines throughout. CS3- Spalls along forward expansion joint.						
107-Steel Open Girder/Beam	3 - Mod.	1280	ft.	605	600	75	0
	CS2- Surface rust. CS3- Rusting section loss, worse at beam ends. Sheeting to some lower flanges over traffic.						
515-Steel Protective Coating		16765	sq. ft.	0	10065	4200	2500
	CS2- Surface dulling throughout. CS3- Rust. Peeling & blistering paint. CS4- Paint failing at beam ends & along lower flanges and webs throughout.						
205-Reinforced Concrete Column	3 - Mod.	3	each	0	0	2	1
	CS3- C1 has a spall with 4 rebar exposed with section loss. Wide cracks, delamination, and scaling. C2 has wide cracks, delaminations. CS4- C3 has large spall with at least 11 consecutive rebar exposed with section loss. Wide cracks and delamination surrounding spalled area.						
521-Concrete Protective Coating		340	sq. ft.	340	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	146	ft.	146	0	0	0
	Repaired at 2023 inspection.						
521-Concrete Protective Coating		464	sq. ft.	464	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	39	ft.	0	15	24	0
	CS2- Moderate width diagonal cracks to both cantilevers. CS3- Wide cracks and delmainations to all bays.						
521-Concrete Protective Coating		636	sq. ft.	636	0	0	0
302-Compression Joint Seal	3 - Mod.	72	ft.	0	0	0	72
	CS2- Gouges to armor. Surface rust to armor. Shallow header spalls. CS3- Deep header spalls. Section loss to armor at left corner of forward joint. Torn seal at left corner of forward joint. CS4- Asphalt patches to headers. Both joints fully closed, no movement.						
310-Elastomeric Bearing	3 - Mod.	10	each	0	10	0	0
	CS2- Corner of forward bearing #1 exposed. Transverse & longitudinal movement to elastomeric pads: as much as 2" to forward bearings 1 & 2 and 1.5" to rear bearing 1. A few pads peeling up at abutment seats. Bulging to a few pad sections.						
313-Fixed Bearing	3 - Mod.	5	each	5	0	0	0

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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.	1300	sq. ft.	1040	208	0	52
	CS2- Sound patchwork, mainly to forward slab. Some moderate width cracks to original slab and patchwork. Some spots of scaling. CS4- Deep spalling along expansion joints for width of roadway, 3"-6" wide and 4"-5" deep along both slabs near both joint headers, asphalt patches in these areas.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	512	ft.	427	85	0	0
	CS2- Moderate width cracks, mainly under fence post anchors. About 5sf of sound patchwork.						
521-Concrete Protective Coating		3072	sq. ft.	3072	0	0	0
	Rail has rust staining from fence hardware. Severed lower fence posts at rear-left and forward-right.						
815-Drainage	3 - Mod.	2	each	2	0	0	0
830-Abutment Backwall	3 - Mod.	52	ft.	52	0	0	0
	Patched at 2023 inspection.						
521-Concrete Protective Coating		208	sq. ft.	208	0	0	0

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FIPS Code:	09246 - BROOKLYN (CUY county)	Location:	DISTRICT 12	1.39 MI. W. OF JCT. US-42		Insp Resp B:	

Inspector Miller,Jason Inspection Date 06/21/2023 Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab

Spalls over traffic:

480 EB: Highspeed Berm and Lane 1, Bay 1. Lanes 3 and 4, Bay 2. Highspeed berm, Bay 4.

480 WB: Highspeed Berm, Bay 1. Lane 4, Bays 3 and 4. Lowspeed Berm, Bays 2,3, and 4.

Curbs/Sidewalk

A few transverse cracks. Small spall to left curb . Shallow spalls to sidewalks at joints.

Approach

Approach Wearing Surface

Approach pavement new at Rear in 2023.

Approach Embankment

Bridge has moved west at forward and east & down at rear as compared to approach parapets and sidewalk curbs (no recent movement).

Approach Guardrail

Only concrete approach rails. Rust severed horizontal fence railing at forward right.

Signs

No bridge end markers.

Sign Supports

3 sign clips missing over WB lane #4. Sign still secure.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Rear horizontal endframe in Bay 4 is nearly rust severed. Through hole to Forward Bay 1 endframe. Forward Bay 4 endframe is rust severed. Rear bay 1 horizontal end frame has section loss and through hole.

Utilities

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A few broken xframe brackets in bay 4.

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical