

Inspector: Persanyi,Andrea
 Inspection Date: 09/28/2022

Structure Number: 4300300
 Facility Carried: SR 2

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

LAK-00002-0255L (4300300)

2: District 23618 - EASTLAKE (LAK county)
 District 12

5A: Inventory Route 1 00002

21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 02 - County Highway Agency /
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

7: Facility On SR 2
 6: Feature Ints EAST 337TH ST
 9: Location 0.75 MI.E. OF JCT E 305
 Lat, Lon 41.630606 ,-81.448203

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

43: Bridge Type 4 - Steel continuous
 02 - Stringer/Multi-beam or Girder
 N- Not Applicable
 45: Spans Main / Approach 3 / 0
 107: Deck Type 1 - Concrete Cast-in-Place
 408: Composite Deck N - Non-composite Construction
 414A Joint Type 1 2 - Sliding Metal Plate Angle
 414B: Joint Type 2 N - None
 108A: Wearing Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)
 1- Super Plasticized

67.01 GA **6**

Appraisal

Sufficiency Rating 73.6 SD/FO 2 - FO
 36: Rail, Tr, Gd, Term Std 1 1 1 N
 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 10/15/2008
 423: WS Thick (in) 2.25
 482: Protective Coating 5 - Paint System OZEU
 483: PCS Date 09/20/2000
 453: Bearing Type 1 3 - Sliding (Bronze)
 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 1 - Steel H Piles (Other size)
 539: Foundn: Pier 2 0 - Other

Geometric

48: Max Span Length (ft) 55.0
 49: Structure Length (ft) 148.0
 52: Deck Width, Out-To-Out (ft) 56.3
 424: Deck Area (sf) 8332.4
 32: Appr Roadway Width (ft) 54.0
 51: Road Width, Curb-Curb (ft) 54.0
 50A: Curb/SW Width: Left (ft) 0
 50A: Curb/SW Width: Right (ft) 0
 34: Skew (deg) 34
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 15.58
 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 1962 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 1 - Highway, with or w/out pedestrian
 28A: Lanes on 04
 28B: Lanes Under 02
 19: Bypass Length 1
 29: ADT 34896
 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

Inspections

	<i>Months</i>	
90: Routine Insp.	12	09/28/2022
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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63: Analysis Method 7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

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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.	8338	sq. ft.	4485	3300	525	28
CS2- Cracks, some leaching. Large mottled areas. CS3- Some areas of leaching map cracks. Some wide cracks. Spalls and delams. Many spalls have exposed rebar. CS4- Spalls with 4+ bars of rebar exposed with rusted section loss.							
510-Wearing Surfaces		7992	sq. ft.	7912	80	0	0
CS2- A few minor cracks.							
107-Steel Open Girder/Beam	3 - Mod.	1001	ft.	987	14	0	0
CS2- Minor rusted section loss at beam ends.							
515-Steel Protective Coating		8769	sq. ft.	1260	7405	100	4
CS1- Beam ends painted in 2008 CS2- Fading and chalking throughout bridge CS3- Some rust spots, mainly along edge of lower flange CS4- Rust to bare metal.							
205-Reinforced Concrete Column	3 - Mod.	12	each	12	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	136	ft.	108	18	10	0
CS2- Leaching cracks, rust stains. CS3- Areas of deteriorated concrete near forward bearing #5 and rear #3. Some small spalls and delams.							
234-Reinforced Concrete Pier Cap	3 - Mod.	136	ft.	135	1	0	0
CS2- Cracks to P2 south face							
305-Assembly Joint without Seal	3 - Mod.	136	ft.	0	77	51	8
CS2- Signs of minor leakage throughout both joints. CS3- Gouges to armor. Wide transverse crack to rear header across lanes 1,2 & part of 3. Spall to rear header. Rusted section loss to armor in berms. Signs of moderate leakage to rear. Rear approach armor in lane 2 is damaged. CS4- 4' of forward joint riser bar broken off in lane #2. Rear joint in lane #2 has 4' of riser bar banging.							
311-Movable Bearing	3 - Mod.	21	each	8	13	0	0
CS2- Bearing #7 at rear is engulfed in debris. Several bearings have pack rust.							
313-Fixed Bearing	3 - Mod.	7	each	4	3	0	0
CS2- Some pack rust starting							

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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.	2580	sq. ft.	2280	225	75	0
<p>CS2- Some map cracking.</p> <p>CS3- Wide transverse cracks running along both joint headers. Spalls to rear, near expansion joint. A few breaking up areas.</p>							
331-Reinforced Concrete Bridge Railing	3 - Mod.	296	ft.	188	105	3	0
<p>CS2- Horizontal leaching cracks. Some horizontal cracks to top face of right rail. Other minor cracks. Collision scrapes.</p> <p>CS3- Minor delams.</p>							
815-Drainage	3 - Mod.	12	each	0	12	0	0
<p>CS2- All scuppers partially plugged. Rusted thru holes to bottoms of downspouts. Several downspouts have cracked weld support bars to down spouts.</p>							
830-Abutment Backwall	3 - Mod.	136	ft.	62	50	24	0
<p>CS2- Cracks, many leaching and rust stained.</p> <p>CS3- Large spall with exposed rebar in rear bay 6, other spalls. Some delams.</p>							

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ODOT District: District 12

LAK-00002-0255L_(4300300)

Date Built: 07/01/1962

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 02 - County Highway Agency

Feature Inters: EAST 337TH ST

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

Insp. 01 - State Highway Agency

FIPS Code: 23618 - EASTLAKE (LAK county)

Location: DISTRICT 12

0.75 MI.E. OF JCT E 305

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

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Reviewer

Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Spalls forming in bay 4 over east sidewalk, bay 5 over west berm at P1C4, bay 6 over NB and SB lanes, and south deck edge over east berm. Large delam at P2 between column 4 and 5.

Approach

Approach Wearing Surface

Minor cracks

Approach Slab (SF)

Does not extend into berms.

Signs

No bridge end markers at forward ExJt.

Utilities

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

Note: Old downspout bars are welded to tops of lower flanges of fascia beams in positive moment areas.

Diaphragm/X-Frames

1" diameter rusted thru hole to 1st x-frame from rear abutment in bay 1. Endframe rusted section loss. Endframe at rear bay 3 bent.

Fatigue

Welded moment plates at piers.

Substructure

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Slope Protection

Cracks. Minor spalls. Some uneven settlement. Vegetation growing through forward slope in spots.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures