

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

Structure Number: 4300335
 Facility Carried: SR 2

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

LAK-00002-0255R (4300335)

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 41.630367 , -81.448178

Condition	Structure Type
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58: Deck **4 - Poor 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**

67.01 GA **6**

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 3 - Latex Concrete or similar additive
 N- Not Applicable

Appraisal

Sufficiency Rating 71.4 SD/FO 1 - SD
 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) 1.2
 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) 15.17
 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
 63: Analysis Method 7 - Allowable Stress (AS) rating reported

Inspections

90: Routine Insp.	<i>Months</i> 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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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.	8342	sq. ft.	1001	6017	1310	14
<p>CS2- Many cracks. Transverse and map. Rust stains. 2 full depth repairs. Mottled areas.</p> <p>CS3- Some wide cracks. Leaching map cracked area, with some stalactites and rust stains. Delams and spalls, some with rebar exposed. Deck edge spalls, some with exposed rebar. Delams.</p> <p>CS4- Spall with 4+ bars of rebar with 360° exposure.</p>							
510-Wearing Surfaces		7992	sq. ft.	7892	100	0	0
CS2- Minor cracks.							
107-Steel Open Girder/Beam	3 - Mod.	1001	ft.	941	50	10	0
<p>CS2- Areas of minor section loss.</p> <p>CS3- Heavy rusted section loss at abutments.</p>							
515-Steel Protective Coating		8769	sq. ft.	1260	7459	50	0
<p>CS1- Beam ends painted in 2008</p> <p>CS2- Fading and chalking through out bridge.</p> <p>CS3- Some rust spots, mainly along edge of lower flanges.</p>							
205-Reinforced Concrete Column	3 - Mod.	12	each	12	0	0	0
Note- P1C2- 1 SF spall with rebar							
215-Reinforced Concrete Abutment	3 - Mod.	136	ft.	110	16	10	0
<p>CS2- A few cracks, some rust stains.</p> <p>CS3- Spalls at weep holes. Minor delams</p>							
234-Reinforced Concrete Pier Cap	3 - Mod.	136	ft.	136	0	0	0
CS1- Minor small spalls							
305-Assembly Joint without Seal	3 - Mod.	139	ft.	0	0	134	5
<p>CS3- Evidence of leaking full length at both joints. Rusted section loss to joint armor, heaviest in the berms.</p> <p>CS4- Banging at rear joint near bay 1.</p>							
311-Movable Bearing	3 - Mod.	21	each	11	10	0	0
CS2- Some have the start of pack rust in spots.							
313-Fixed Bearing	3 - Mod.	7	each	5	2	0	0
CS2- Fascia bearings have rust.							
321-Reinforced Concrete Approach Slab	3 - Mod.	2575	sq. ft.	2536	30	9	0
<p>CS2- Minor cracks</p> <p>CS3- Wide crack with small delams and spalls at rear corners next to expansion joint. Broken up concrete to forward #3 lane and rear #1 lane.</p>							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
331-Reinforced Concrete Bridge Railing	3 - Mod.	296	ft.	278	18	0	0
CS2- Cracks, small minor spalls, and collision scrapes.							
815-Drainage	3 - Mod.	12	each	2	10	0	0
CS2- Some ponding water to both berms. Partially plugged scuppers. Several downspouts have cracked welds at support bars that connect to downspouts. Rusted thru holes in bottom of downspouts.							
830-Abutment Backwall	3 - Mod.	136	ft.	86	30	20	0
CS2- Cracks, some leaching, some with rust stains. CS3- Spalls to both back walls, some have rebar exposed. Some delams.							

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ODOT District: District 12

LAK-00002-0255R_(4300335)

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 over traffic and sidewalks: east sidewalk at north edge of floor, west sidewalk in bay 1, roadway centerline in bay 4, southbound traffic lane in bays 1, 3 and 6.

Approach

Approach Wearing Surface (EA)

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Approach Guardrail (EA)

Collision scrapes to rear-left concrete approach.

Signs (EA)

No bridge end marker at rear-left.

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 (EA)

Endframe rusted section loss with two 1" diameter rusted thru holes in forward endframe #6. Note: Utility lines connected to xframe in bay 1 near P1.

Fatigue (LF)

Welded moment plates at piers. Note: End weld is missing on beam 2 in span 3.

Substructure

Slope Protection (EA)

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Cracks. Minor spalls (<5 SF). Areas of vegetation growing through forward slope.

Embankment

Rear left embankment has erosion rut 2' by 2'

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Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures