

# Ohio Bridge Inspection Summary Report

**LAK-00002-0255L (4300300)**

2: District 23618 - EASTLAKE (LAK county)  
 ict  
 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	
<b>58: Deck</b>	<b>5 - Fair Condition</b>	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	4- Poor (heavy leaking, offset)		N- Not Applicable
<b>59: Superstructure</b>	<b>7 - Good Condition</b>	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	7 - Good (1-5% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
<b>60: Substructure</b>	<b>6 - Satisfactory Condition</b>	408: Composite Deck	N - Non-composite Construction
<b>61: Channel</b>	<b>N</b>	414A Joint Type 1	2 - Sliding Metal Plate Angle
<b>61.01 Scour</b>	<b>N - Not Applicable</b>	414B: Joint Type 2	N - None
<b>62: Culverts</b>	<b>N - Not Applicable</b>	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)

**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
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

Inspections	
90: Routine Insp.	Months 12 10/28/2021
92A: FCM Insp.	N
92B: Dive Insp.	N
92C: Special Insp.	N
92D: UBIT Insp.	N
92E: Drone Insp.	
Inspector	Banaszak, Ken

Inspector: Ken Banaszak  
 Inspection Date: 10/28/2021

Structure Number: 4300300  
 Facility Carried: SR 2

**Bridge Inspection Report**

**Element Inspection**

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	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.						
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	1001	ft.	987	14	0	0
	CS2- Minor rusted section loss at beam ends.						
515 - Steel Protective Coating		8769	sq. ft.	4365	4300	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.						
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	12	each	12	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	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.						
<b>234 - Reinforced Concrete Pier Cap</b>	3 - Mod.	136	ft.	135	1	0	0
	CS2- Cracks to P2 south face						
<b>305 - Assembly Joint without Seal</b>	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 for about 25'. 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.						
<b>311 - Movable Bearing</b>	3 - Mod.	21	each	8	13	0	0
	CS2- Bearing #7 at rear is engulfed in debris. Several bearings have pack rust.						

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**Element Inspection**

<b>313 - Fixed Bearing</b>	3 - Mod.	7	each	4	3	0	0
CS2- Some have start of pack rust.							
<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	2580	sq. ft.	2280	225	75	0
CS2- Some map cracking. CS3- Wide transverse cracks running along both joint headers. Spalls to rear, near expansion joint. A few breaking up areas.							
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	296	ft.	188	105	3	0
CS2- Horizontal leaching cracks. Some horizontal cracks to top face of right rail. Other minor cracks. Collision scrapes. CS3- Minor delams.							
<b>815 - Drainage</b>	3 - Mod.	12	each	0	12	0	0
CS2- All scuppers partially plugged. Rusted thru holes to bottoms of downspouts. Several downspouts have cracked weld support bars to down spouts.							
<b>830 - Abutment Backwall</b>	3 - Mod.	136	ft.	62	50	24	0
CS2- Cracks, many leaching and rust stained. CS3- Large spall with exposed rebar in rear bay 6, other spalls. Some delams.							

ODOT District: District 12

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Date Built: 07/01/1962

Major Maint: 01 - State Highway Agency

Facility Carried: SR 2

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

Banaszak, Ken

Inspection Date 10/28/2021

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

##### Slope Protection

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

#### Culvert

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**