Ohio Bridge Inspection Summary Report

CUY-00422-1627R (1814915)

2: DistrictDistr 72928 - SOI ict 12	LON (CUY county)	5A: Inventory Route 1	00422				
	I - State Highway Agency /	7: Facility On USR 422					
	I - State Highway Agency /	<u>-</u>	ARPER RD)				
221 Inspection A/B 01 - State Highway Agency /		9: Location 3.1 MI E I-					
220: Inv. Location DISTRICT 12		Lat, Lon 41.405939					
	Condition	St	ructure Type				
58: Deck	6 - Satisfactory Condition	43: Bridge Type 4 - Steel continuous					
58.01 Wearing Surface	7 - Good (1% distress)	02 - Stringer/Multi-beam or Girde					
58.02 Joint	7- Good (no leaking)	N- Not Applicable					
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Appro					
59.01 Paint & PCS	7 - Good (1-5% corr.)	107: Deck Type	1 - Concrete Cast-in-Place				
60: Substructure	7 - Good Condition	408: Composite Deck	N - Non-composite Construction				
61: Channel	N	414A Joint Type 1 2 - Sliding Metal Plate Angle					
61.01 Scour	N - Not Applicable	414B: Joint Type 2 N - None					
62: Culverts 67.01 GA	N - Not Applicable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 2- MicroSilica				
07.01 GA		422: WS Date	07/01/1975				
	Appraisal	423: WS Thick (in)	1.8				
Sufficiency Rating	98.0 SD/FO 0 - ND	482: Protective Coating	5 - Paint System OZEU				
36: Rail, Tr, Gd, Term Std	1 1 1 1	483: PCS Date	11/07/2009				
72: Approach Alignment	8 - Equal to present desirable criteria	453: Bearing Type 1	2 - Rockers & Bolsters				
113: Scour Critical	N - Not over waterway	455: Bearing Type 2	N - None				
71: Waterway Adequacy	N - Not Applicable	528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced				
	Geometric		Concrete Piles (Other diameter) 2 - Cast-in-Place reinforced				
48: Max Span Length (ft)	68.0	533: Foundn: Abut Real	Concrete Piles (Other diameter)				
49: Structure Length (ft)	236.0	536: Foundn: Pier 1	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)				
52: Deck Width, Out-To-Ou	• •	539: Foundn: Pier 2	0 - Other				
424: Deck Area (sf)	12744	Age and Service					
32: Appr Roadway Width (ft) 52.0		27: Year Built/ 106 Reha					
51: Road Width, Curb-Curk	o (ft) 50.5	42A: Service On	1 - Highway				
50A: Curb/SW Width: Left	(ft) 0	42B: Service Under	1 - Highway, with or w/out pedestrian				
50A: Curb/SW Width: Righ	t (ft) 0	28A: Lanes on	02				
34: Skew (deg)	40	28B: Lanes Under	04				
33: Bridge Median	0 - No median	19: Bypass Length	0				
54B: Min Vert Undercleara	nce (ft) 14.83	29: ADT	24975				
336A: Min Vert Clrnce IR C	ardinal (ft) 99	109: % Trucks (%)	6				
336B: Min V CIr IR Non-Ca	rdinal (ft) 0	Ins	pections				
578: Culvert Length (ft)	0		Months				
	Load Posting	90: Routine Insp.	12 06/14/2022				
41: Op/Post/Closed	A - Open	92A: FCM Insp. N	0				
70: Posting 5 - Equal to or above legal loads		92B: Dive Insp. N	0				
70.01: Date	-	92C: Special Insp. N	0				
70.02: Sign Type		92D: UBIT Insp. N	0				
734: Percent Legal (%)	150	92E: Drone Insp. N	0				
704: Analysis Date	07/01/1976	Inspector Persanyi,Ar	ndrea				
63: Analysis Method	7 - Allowable Stress (AS) rating reporte by rating factor (RF) method using MS1 loading.						

Inspector:Andrea PersanyiStructure Number:1814915Inspection Date:06/14/2022Facility Carried:USR 422

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12 - Reinforced Concrete Deck	3 - Mod.	12744	sq. ft.	11250	911	583	0	
	CS2- Cracks. A few leached cracks. CS3- Spalls and delams. Long sealed spall along right fascia in span 3 (old collision damage).							
510 - Wearing Surfaces		11918	sq. ft.	8918	2500	500	0	
	CS2- Cracks. Scaling. CS3- Transverse cracks as wide as 1/16".							
107 - Steel Open Girder/Beam		1652	ft.	1473	50	129	0	
	Note: Repair CS2- Some #2. CS3- Areas Worst is real	of arrester beam 5.	st. Scra	apes to all l	lower flang	ds, some	/B lane heavy.	
515 - Steel Protective Coating		18202	sq. ft.	18021	181	0	0	
	CS 2 - Some chalking of outside surfaces of fascia beams, isolated spots of rust.							
205 - Reinforced Concrete Column	3 - Mod.	15	each	11	4	0	0	
	CS2- P2C1- 5 SF delam P2C2- 7 SF delam P2C3- 7 SF delam P2C4- 3 SF sealed spall < 1" deep							
215 - Reinforced Concrete Abutment	3 - Mod.	141	ft.	115	22	4	0	
	CS2- Cracks. Some honey combing. CS3- A few delams. Missing cheek wall at rear right.							
234 - Reinforced Concrete Pier Cap		212	ft.	211	0	1	0	
	CS3- Delam to P3 corner between C2-C3							
305 - Assembly Joint without Seal	3 - Mod.	108	ft.	54	46	8	0	
	CS2- A few gouges to armor. Dirt and debris in joint. CS3- Small spall in rear ExJt header (lane #2). Section loss to armor. Wide cracks to header.							
311 - Movable Bearing	3 - Mod.	28	each	10	14	4	0	
	CS2- Areas of surface rust. CS3- Rusted section loss.							
313 - Fixed Bearing		7	each	7	0	0	0	
313-1 INEG Dealing	J Mod.		Cacii					

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Element Inspection

321 - Reinforced Concrete Approach Slab	3 - Mod.	2600	sq. ft.	1985	400	85	130		
	CS2- Cracks.								
	CS3- Wide cracks in both slabs. CS4- Asphalt patches and broken up concrete areas.								
331 - Reinforced Concrete Bridge Railing	3 - Mod.	472	ft.	449	23	0	0		
	CS2- A few cracks. Minor collision scrapes. Shallow pop-outs.								
830 - Abutment Backwall	3 - Mod.	141	ft.	105	36	0	0		
	CS2- Cracks. Concrete patches to top of both backwalls in bays 1-3. Construction joints sealed with Great Stuff.								

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ODOT District: District 12 Major Maint: 01 - State Highway Agency

Facility Carried: USR 422

Traffic On: 1 - Highway

Rehab Date: 01 - State Highway Agency

Date Built:

Resp A:

Insp Resp B:

07/01/1975

FIPS Code: 72928 - SOLON (CUY county)

Routine Maint: 01 - State Highway Agency

Feature Inters: CR-18 (HARPER RD)

Location: DISTRICT 12

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

pedestrian 3.1 MI E I-271

Inspector

Persanyi, Andrea

Inspection Date 06/14/2022

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Guardrail

Minor collision damage to FWD right and rear left.

Approach Wearing Surface

Cracks. Asphalt patches. Asphalt break up along both slabs.

Approach Embankment

Erosion at rear-left (covered with vegetation).

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Heavy section loss with rusted thru holes to some end frames. Horizontal angle of rear end frames 3, 4 & 5 are missing.

Fatigue

Welded moment plates at piers.

Substructure

Slope Protection

Cracks. Uneven settlement. gap at forward abutment as wide as 11". Large tufa deposit below weep hole at rear-left.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical