

Ohio Bridge Inspection Summary Report

CUY-00422-1597L (1814885)

2: District 72928 - SOLON (CUY county)
 District 12

5A: Inventory Route 1 00422

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

7: Facility On USR 422
 6: Feature Ints CR-99 (CANNON RD)
 9: Location 3 MI E I-271
 Lat, Lon 41.409603 ,-81.470072

Condition		Structure Type	
58: Deck	6 - Satisfactory Condition	43: Bridge Type	4 - Steel continuous 02 - Stringer/Multi-beam or Girder N- Not Applicable
58.01 Wearing Surface	7 - Good (1% distress)	45: Spans Main / Approach	3 / 0
58.02 Joint	7- Good (no leaking)	107: Deck Type	1 - Concrete Cast-in-Place
59: Superstructure	7 - Good Condition	408: Composite Deck	N - Non-composite Construction
59.01 Paint & PCS	7 - Good (1-5% corr.)	414A Joint Type 1	2 - Sliding Metal Plate Angle
60: Substructure	7 - Good Condition	414B: Joint Type 2	N - None
61: Channel	N	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 1- Super Plasticized
61.01 Scour	N - Not Applicable	422: WS Date	07/01/1975
62: Culverts	N - Not Applicable	423: WS Thick (in)	2.0

67.01 GA 7

Appraisal			
Sufficiency Rating	98.0	SD/FO	0 - ND
36: Rail, Tr, Gd, Term Std	1	1	1 1
72: Approach Alignment	8 - Equal to present desirable criteria		
113: Scour Critical	N - Not over waterway		
71: Waterway Adequacy	N - Not Applicable		

423: WS Thick (in)	2.0
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	11/07/2009
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
533: Foundn: Abut Rear	2 - Cast-in-Place reinforced Concrete Piles (Other diameter)
536: Foundn: Pier 1	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
539: Foundn: Pier 2	0 - Other

Geometric	
48: Max Span Length (ft)	75.0
49: Structure Length (ft)	185.0
52: Deck Width, Out-To-Out (ft)	69.5
424: Deck Area (sf)	12857.5
32: Appr Roadway Width (ft)	42.0
51: Road Width, Curb-Curb (ft)	66.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	32
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	15.33
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	1975 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	02
19: Bypass Length	0
29: ADT	37654
109: % Trucks (%)	5

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	07/01/1975
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	Months	
90: Routine Insp.	12	04/15/2022
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
Inspector	Persanyi, Andrea	

Inspector: Andrea Persanyi
 Inspection Date: 04/15/2022

Structure Number: 1814885
 Facility 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.	12863	sq. ft.	12495	250	118	0
	CS2- A few leaching cracks, delams. CS3- Spalls throughout.						
510 - Wearing Surfaces		12210	sq. ft.	10989	1221	0	0
	CS2- Transverse cracks						
107 - Steel Open Girder/Beam	3 - Mod.	1620	ft.	1570	0	50	0
	CS3- Pitted section loss at some beam ends.						
515 - Steel Protective Coating		19547	sq. ft.	18565	977	5	0
	CS2- Chalking on exterior of fascia beams. CS3- Isolated rust.						
205 - Reinforced Concrete Column	3 - Mod.	10	each	9	0	1	0
	CS3- P2C5- 3 SF delams, 2 SF spalls						
215 - Reinforced Concrete Abutment	3 - Mod.	164	ft.	144	20	0	0
	CS2- A few cracks & rust stains.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	164	ft.	164	0	0	0
305 - Assembly Joint without Seal	3 - Mod.	139	ft.	67	71	1	0
	CS2- Dirt & debris in joints, cracks in exjt headers. CS3- Small rusting thru hole in rear-left curb plate.						
311 - Movable Bearing	3 - Mod.	27	each	9	18	0	0
	CS2- Arrested section loss at abutment bearings.						
313 - Fixed Bearing	3 - Mod.	9	each	9	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	2100	sq. ft.	1875	210	15	0
	CS2- Cracks. CS4- Asphalt patches and breaking up concrete at rear.						
331 - Reinforced Concrete Bridge Railing	3 - Mod.	370	ft.	270	100	0	0
	CS2- Long horizontal cracks, rust stains, collision scrapes and gouges.						
815 - Drainage	3 - Mod.	2	each	1	1	0	0
	CS2- Debris in high speed berm.						

Inspector: Andrea Persanyi
Inspection Date: 04/15/2022

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Element Inspection

830 - Abutment Backwall	3 - Mod.	164	ft.	143	17	4	0
CS2- A few cracks. CS3- Minor spalls at construction joints. Wide gaps in construction joints filled with Great Stuff.							

ODOT District: District 12

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Date Built: 07/01/1975

Major Maint: 01 - State Highway Agency

Facility Carried: USR 422

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: CR-99 (CANNON RD)

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

Insp: 01 - State Highway Agency

FIPS Code: 72928 - SOLON (CUY county)

Location: DISTRICT 12

3 MI E I-271

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 04/15/2022

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

Asphalt break up & asphalt patches along both slabs

Approach Embankment (EA)

Erosion at forward-left below concrete pull box (covered with vegetation).

Approach Guardrail (EA)

Cracks, rust stains & minor spalls to concrete approach rails.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Areas of rusted section loss.

Fatigue (LF)

Welded cover plates at piers.

Substructure

Slope Protection (EA)

Uneven settlement at rear. Concrete slid as much as 5" at forward & as much as 12" at rear. Minor undermining to CSP in isolated locations. *Note: ponding water & mud at base of rear slope and around P1 columns.*

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical