

Ohio Bridge Inspection Summary Report

CUY-00480-0612 (1814168)

2: District 12 26446 - FAIRVIEW PARK (CUY county)
 21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 04 - City or Municipal Highway /
 Agency
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

5A: Inventory Route 1 C0100
 7: Facility On W. 220TH ST.
 6: Feature Ints IR-480 (W220TH)
 9: Location 2.1 MI. E. OF JCT. SR-252

Condition	
58: Deck	4 - Poor Condition
58.01 Wearing Surface	5 - Fair (10-15%, 2% asphalt patch)
58.02 Joint	6- Satisfactory (isolated leaking)
59: Superstructure	7 - Good Condition
59.01 Paint & PCS	6 - Satisfactory (5-10% corr.)
60: Substructure	6 - Satisfactory Condition
61: Channel	N
61.01 Scour	N - Not Applicable
62: Culverts	N - Not Applicable

Structure Type	
43: Bridge Type	4 - Steel continuous
	02 - Stringer/Multi-beam or Girder
	N- Not Applicable
45: Spans Main / Approach	4 / 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	1 - Monolithic Concrete (concurrently placed with structural deck)
	N- Not Applicable

67.01 GA 6

Appraisal	
Sufficiency Rating	78.1 SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	N N 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	07/01/1980
423: WS Thick (in)	1.2
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	01/01/1995
453: Bearing Type 1	2 - Rockers & Bolsters
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	4 - Spread Footing
539: Foundn: Pier 2	0 - Other

Geometric	
48: Max Span Length (ft)	77.0
49: Structure Length (ft)	259.0
52: Deck Width, Out-To-Out (ft)	64.3
424: Deck Area (sf)	16653.7
32: Appr Roadway Width (ft)	52.0
51: Road Width, Curb-Curb (ft)	52.0
50A: Curb/SW Width: Left (ft)	5
50A: Curb/SW Width: Right (ft)	5
34: Skew (deg)	4
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	16.28
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	1980 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	04
28B: Lanes Under	08
19: Bypass Length	1
29: ADT	7104
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	07/01/1900
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections	
90: Routine Insp.	Months 12 05/04/2021
92A: FCM Insp.	N
92B: Dive Insp.	N
92C: Special Insp.	N
92D: UBIT Insp.	N
92E: Drone Insp.	
Inspector	Persanyi,Andrea

Inspector: Andrea Persanyi
 Inspection Date: 05/04/2021

Structure Number: 1814168
 Facility Carried: W. 220TH ST.

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.	17698	sq. ft.	14602	2500	580	16
	CS 2 - leaching cracks, rust stains along deck edges. CS 3 - stalactites, large mottled areas, mainly below wearing surface asphalt patches. approximately 330 sf of spalls with exposed rebar in spans 2 and 3. shallow haunch spalls over both slopes.						
510 - Wearing Surfaces		134680	sq. ft.	131030	3000	650	0
	CS 2 - many cracks, areas of scaling along left curb, large delaminated areas. CS 3 - cracks, some as wide as 1/8", shallow spalls, asphalt patches, some rough, concrete breaking up around some asphalt patches.						
107 - Steel Open Girder/Beam	3 - Mod.	2050	ft.	2018	32	0	0
	CS 2 - areas of section loss, mainly at beam ends.						
515 - Steel Protective Coating		18061	sq. ft.	9261	8500	300	0
	CS 2 - paint runs, fading. CS 3 - rust, areas of peeling.						
205 - Reinforced Concrete Column	3 - Mod.	12	each	12	0	0	0
215 - Reinforced Concrete Abutment	3 - Mod.	129	ft.	103	22	4	0
	CS 2 - cracks, rust stains, CS 3 - a few delams, large spall that goes into seat in rear bay 5.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	193	ft.	138	50	5	0
	CS 2 - delams as large as 3 SF, rust stains on bottom face of caps. CS 3 - 3 SF spall with 360° rebar exposure in P1 cap above C1.						
303 - Assembly Joint with Seal	3 - Mod.	124	ft.	0	119	5	0
	CS 2 - rusting section loss & a few gouges to armor. CS 3 - rusting thru holes in forward-left & both rear sidewalk cover plates, full length rough asphalt patches & potholes along both exjt headers (rough ride).						
311 - Movable Bearing	3 - Mod.	32	each	16	16	0	0
	CS 2 - areas of pack rust, rear rocker #6 tipped out at 65° F.						
313 - Fixed Bearing	3 - Mod.	8	each	8	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	2080	sq. ft.	1806	150	124	0
	CS 2 - cracks. CS 3 - rough asphalt patch along both joints						
331 - Reinforced Concrete Bridge Railing	3 - Mod.	518	ft.	263	250	5	0
	CS 2 - cracks, rust stains, delams. rusting section loss to fence post bases with many thru holes (a few rust severed). CS 3 - spalls with exposed rebar.						

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Element Inspection

815 - Drainage	3 - Mod.	14	each	7	7	0	0
CS 2- partially plugged scuppers.							
830 - Abutment Backwall	3 - Mod.	124	ft.	103	15	6	0
CS 2 - leaching cracks, delams CS 3 - spalls, some with exposed rebar							

ODOT District: 12

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Traffic On: 5 - Highway-pedestrian

Rehab Date:

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Agency

Feature Inters: IR-480 (W220TH)

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

Insp. 01 - State Highway Agency

FIPS Code: 26446 - FAIRVIEW PARK (CUY county)

Location: DISTRICT 12

2.1 MI. E. OF JCT. SR-252

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 05/04/2021

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Spalls forming over EB traffic: bay 4 over low speed berm, over WB traffic: haunch spalls in bays 1&2 over lanes 1 & 2 and over lanes 2 & 3 in bays 4 & 5.

Curbs/Sidewalk (LF)

Cracks, spalls, delams.

Bridge Railing (LF)

Collision damage to pedestrian fence in a few areas. Some loose pedestrian fence post anchor bolts

Approach

Approach Wearing Surface (EA)

Map cracking.

Signs (EA)

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Minor endframe rusting section loss with thru holes in rear endframe #1 & forward endframes #1 & #7.

Fatigue (LF)

Welded cover plates at Pier 2.

Substructure

Pier Columns/Bents (EA)

Note: all columns fiber wrapped.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical