



STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

Structure File Number: 1802046

Inventory Bridge Number: CUY 00017 02.830 N

SR17 over ROCKY RIVER

Inspection Type: Routine

Inspection Date: 09/16/2014

District: 12

County: CUYAHOGA

Place Code (FIPS): FAIRVIEW PARK

Bridge Type: CONCRETE

Type of Service: HIGHWAY-PEDESTRIAN

Owner: OHIO STATE TRANSPORTATION DEPARTMENT

Inspection Responsibility: OHIO STATE TRANSPORTATION
DEPARTMENT

Maintenance Responsibility: OHIO STATE TRANSPORTATION
DEPARTMENT

Lead Inspector: Costa, Jose

Reviewed By: Costa, Jose

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
GENERAL ELEVATION PHOTOS**

Structure File Number: 1802046

Inventory Bridge Number: CUY 00017 02.830 N

Bridge Type: 1 - CONCRETE/5 - ARCH/3 - DECK

Sufficiency Rating: 61.3

Date Built: 7/1/1933

District: 12 Place Code (FIPS): FAIRVIEW PARK

SR17 over ROCKY RIVER

Type of Service on: HIGHWAY-PEDESTRIAN

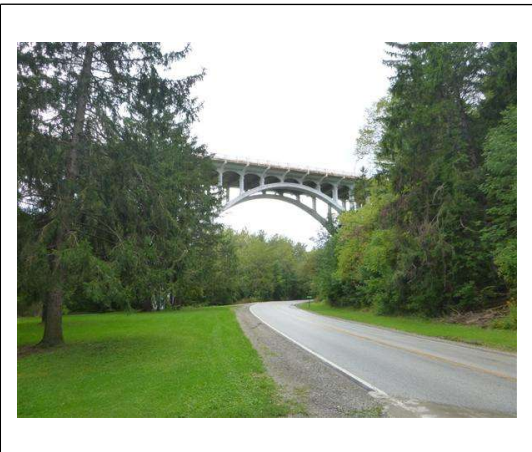


Photo 1	Looking south
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Unit of Measure: ENGLISH
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Bridge Inventory and Appraisal
 Inventory Bridge Number: CUY 00017 02.830 N
 1 ROCKY RIVER

Report Date: 09/16/2014
 BR. TYPE: 1 - CONCRETE/5 - ARCH/3 - DECK
 Date of Last Inventory Update: 03/06/2015

(2) District: 12 (4) FIPS Code: 26446 - FAIRVIEW (102) Direction of Traffic: 2 - 2-way traffic	(3) County: 18 - CUYAHOGA (216) Temporary:	(9) Location: APPROX 900FT E W220 ST (208) Route On Bridge: 99 - Non highway traffic (110) Truck Network: N (42A) Type Serv (On): 5 - Highway-pedestrian	(7) Facility Carried: SR17 (207) Route Under Bridge: 10 - State (ODOT) (Toll) (101) Parallel: N (42B) Type Serv (Under): 5 - Waterway
Inventory Route Data		(45) Main Spans Number: 8 (46) Approach Spans Number: 7 (307) Total Spans: 0	Type: 1 - CONCRETE/5 - ARCH/3 - DECK Type: 1 - CONCRETE/2 - BEAM/2 - CONTINUOUS (48) Max Span: 192 Ft (49) Overall Leng: 1919 Ft
(5A) Route On/Under: 1 - Route carried "on" the (5D) Route No: 00017 (6) Feature Intersected: ROCKY RIVER (3) County: CUY (200) Mileage: 02.830 (201) Special Desig: N (209)Mile Marker: 0 (29) Avg. Daily Traffic (ADT): 10,980 (235) Truck Traf: 230 (210) Corridor: N (26) Functional Class: 16 - Urban - Minor Arterial	(5B) Hwy Sys: 3 - State Highway (5C) Des: 1 - Mainline (201) Special Desig: N (209)Mile Marker: 0 (30) ADT Year: 2010 (104) NHS: X - NON-NHS BRG EXCLDES (100) Strahnt: 0 - Non-Strahnet bridges	Substructure: Abut-Rear (532) Matl: 2 - Concrete Abut-Fwd (527) Matl: 2 - Concrete Pier-Pred (535) Matl: 2 - Concrete Pier-Other (538) Matl: 2 - Concrete Pier-Other (541) Matl: N - None (545) Pier, Total Count: 9 (663) Stream Velocity: 5.6 fps (92B) Dive: N Freq: 0 (93B) Date of Last Dive Insp:	Foundation and Scour Information: (531) Type: 4 - Cellular or "U" (533) Fnd: 4 - Spread Footing (526) Type: 4 - Cellular or "U" (528) Fnd: 4 - Spread Footing (534) Type: 4 - Open Column (536) Fnd: 4 - Spread Footing (537) Type: 5 - Capped Column (539) Fnd: 0 - Other (540) Type: N - None (542) Fnd: 0 - Other (113) Scour: 9 - Bridge foundations (including piles) on dry land well above flood (655) Chan Prot: 2 - Stone (657) Drainage Area:
Intersected Route Data		Clearance Under the Bridge	
(370A) Record Type: (370D) Route No: (373) Feature Intersected: (3) County: CUY (379) Avg. Daily Traffic (ADT): (381) Truck Traf: (375) Functional Class:	(370B) Hwy Sys: (370E) Dir: (370C) Des: (371) Mile Marker: (387) Special Desig: (380) ADT Year: (378) NHS: (386) Strahnt:	Min. Horiz Under Clear: (328) Prac Max Vrt Under Clear: Min. Vert Under Clear: Min Lat Under Clear:	(326) NC: 0 Ft (325) CARD: 0 Ft (327) NC: 0 Ft (54) CARD: N 0 Ft (329) Right NC: 0 Ft (55) Right CARD: N 0 Ft (330) Left NC: 0 Ft (56) Left CARD: 0 Ft
Clearance On the Bridge		Load Rating Information	
Min. Hrzt on Bridge: (53) Prac Max Vert On Brg: Min Vrt Clr On Brg: Min Latl Clr: (39) Vrt Clr Lft:	(335) NC: 0 Ft (47) CARD: 40 Ft (336) NC: 0 Ft (10) CARD: 99.99 Ft (338) Right NC: 0 Ft (337) Right CARD: 9.5 Ft (340) Left NC: 0 Ft (339) Left CARD: 9.5 Ft	(31) Design Load: 4 - H20 (64) Opr Rat Fact: 1.330 (66) Inv Rat Fact: 0.800 (734) Ohio Percent Legal 140 (704) Year of Rating: 7/1/2013 (63) Analysis: 2 - Load Factor Rating (LFR) (708) Rate Soft: 7 - Combination (707) PE# 63230	(71) Waterway Adequacy: 8 (72) Approach Alignment: 6 (67) Calc Str Appraisal: 5 - Somewhat better than (68) Calc Deck Geometry: 4 - Meets minimum tolerable (69) Calc Underclearance: N - Not applicable
Structure Information		Approach Information	
(19) Bypass Length: 3 Miles (16) Latitude: 41.420475 (20) Toll: 3 - On Free Road, the structure is toll (27) Date Built: 1933 (28A) No. Lanes On: 4 (301) Horiz Curve: (32) App. Rdw Width: 52 Ft (52) Deck Width: 64.5 Ft (406) Median Type: N - NONE/N - NON BARRIER/N - NO JOINT (33) Bridge median: N - No median Sidewalks: Type Curb or Sidewalk: (425) Left Matl: 1 - Concrete (427) Right Matl: 1 - Concrete (412) Flared: N (407) Railing: 6 - Steel Post and Steel Panel (Decorative) (409) Deck Drainage: 3 - Scuppers and downspouts (107) Deck Type: 1 - Reinforced concrete Deck Protection: (108A) Wearing Surface: 3 - Latex Modified Concrete (LMC) - Overlay (420) Thickness: 1.2 in (547) Slope Protection: N - None	(17) Longitude: -81.861814 (106) Major Rehabilitation: 1989 Major Reconstruction Date: 10/31/1989 (28B) No. Lanes Under: 0 (34) Skew: 0 Deg (51) Brg. Rdw Width: 52 Ft Deck Area: 123775 (50B) Right: 5 Ft (426) Type: 2 - Sidewalk (greater than 2' in) (428) Type: 2 - Sidewalk (greater than 2' in) (408) Composite: N - Non-composite (408) Composite: N - Non-composite (407) Railing: 6 - Steel Post and Steel Panel (Decorative) (409) Deck Drainage: 3 - Scuppers and downspouts (107) Deck Type: 1 - Reinforced concrete Deck Protection: (108B) External: 1 - Built-up (Type "D", Layers of fiberglass and coal tar) (108C) Internal: 8 - Epoxy Coated Reinforcing (Both Mats) (108A) Wearing Surface: 3 - Latex Modified Concrete (LMC) - Overlay (420) Thickness: 1.2 in (419) Date of Wearing Surface: 10/31/1989	(401) Approach Guardrail: 1 - Steel Beam (403) Approach Pavement: 2 - Bituminous (402) Grade: 1 - Good	
		Culvert Information	
		(575) Culvert Type: N - Not a Culvert or Rigid Frame (580) Depth of Fill: 0 Ft	(578) Length: 0 Ft (582) Headwalls: N - None or Not Applicable (Not a
		General Information	
		(475) Main Member: 4 - Concrete Tee Beam (414) Expansion Joint: 8 - ELASTOMERIC STRIP SEAL// (453) Bearing Devices: 3 - SLIDING (BRONZE)/N - NONE/ (38) Navigation: N - No, it is not a navigable stream (92C) Spec Insp: N Freq: 0 (92A) Fracture Critical Insp: N Freq: 0 (474) Long Member: C - Two Concrete Arches (486) Structural Steel Memb: N - None (203) Bridge Dedicated	(477) Moment Plate: X - Not Applicable (40) Horiz Clear: 0 Ft (93C) Special Inspection Date: (93A) Special Inspection Date: (468) Hinges: N - Not Applicable (structures with no hinges) (465) Framing: N - None or Not Applicable (407) Railing: 6 - Steel Post and Steel Panel (Decorative) (482) Paint: B - Epoxy - Urethane sealers

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 Date of Last Inventory Update: 03/06/2015

General Information (Continued)		Original Plans Information	
(37) Hist Significance: 2 - Eligible for National Register (112) NBIS: Yes (842) Hist/Designer: 126 - OHIO STATE HIGHWAY DEPARTMENT (827) Hist Build Year: 1933 (828) Hist Type: 356 - RIBBED (98A) Border Bridge (98B) Resp: (99) SFN:		(250) Fabricator: (249) Contractor: (248) Ohio Original Construction Project Number: 000132 (252) Microfilm Reel: CUY011 (251) Standard Drawing: Aperture Cards: (246) Orig: Y (247) Repair: N (245) Fabr: N (709) Rating Score: 1 - Plan information available for load rating analysis (Default)	
Proposed Improvements		Utilities	Special Features
(114) Future ADT (On Bridge): 15240 (115) Year of Future ADT: 2033		(265) Electric Line: U (266) Gas Line: U (269) Sanitary Sewer: U (267) Telephone Line: U (268) TV Cable: U (270) Water Line: U (271) Other Utilities: U	(283) Lighting: Y (430) Fence: N (432) Glare Screen: N (435) Splash Guard: N (459) Catwalk: N (271) Other-Feat: U (279) Signs on Bridge: N (281) Signs Under Bridge: N (431) Fence Height: 0 Ft (433) Noise Barrier: N
Programming Info			
PID Number: PID Status: PID Date:			
Inspection Summary	Survey Items		
(58) Deck: 5 (59) Superstructure: 5 (60) Substructure: 5 (62) Culvert: N (61) Channel: 6 (c6) Approaches: 6 General Appraisal: 5 (41) Operational Status: A (90) Inspection Date: 09/16/2014 (91) Desig Insp Freq: 12 Months	(36A) Railings: 1 - Meets acceptable standards (36B) Transitions: N - NA/Safety feature not required (36C) Guardrail: 1 - Meets acceptable standards (36D) Rail Ends: 1 - Meets acceptable standards (92A) Fracture Critical: N (113) Scour Critical: 9 - Bridge foundations (including Inspection Review Date:		
SFNs Replacing this retired bridge: - SFNs That were replaced by this bridge: - This bridge was retired and copied to: The bridge was copied from:		Insp 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None (21) Major Maint 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None (225) Routine Maint 1st: 4 - City or other Local Agency 2nd: X - None 3rd: X - None	

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APPROACH INSPECTION PHOTOS**

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
DECK INSPECTION**

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DECK

Drains along south curb are completely clogged in multiple spans. Ponding is occurring along the north curb in Spans A, F and G. All scuppers filled with dirt and vegetation, but some of them are still functioning. Large corrosion holes exist in downspouts at Tower B, north column, Tower F, south column and Tower G, south column.

c13. Expansion Joint (LF)

Total Quantity	Condition Rating
0.0	3

Seals have de-bonded from joints over Piers 6, 8, 9, 10, 11, 12 and the West Pylon. Sections of joint armor are missing at the East Abutment joint. Joint material at the West Abutment and West Vaults joints is still bonded to the joint armor, but torn in multiple locations. Edge spalls adjacent to West Abutment joint armor.

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE INSPECTION**

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SUPERSTRUCTURE

(59) NBIS Superstructure Summary: 5

Recommended: 3,4

c14. Alignment (EA)

Total Quantity	Condition Rating
15	1

No misalignment noted anywhere on the structure.

c15.1 Beams/Girders (LF)

Total Quantity	Condition Rating
0.0	3

Beams in approach spans have widespread spalls and delamination. Bottom faces of beams in the East Approach spans have exposed reinforcing, and some have delamination on the vertical faces adjacent to the bottom face spalls. Beam 7 in East Approach Span 2 appears to have been saw-cut in order to expose reinforcing; bottom row of rebar has only an epoxy coating protecting it.

c16. Diaphragm/Cross Frames (EA)

Total Quantity	Condition Rating
0.0	

c17. Stringers (LF)

Total Quantity	Condition Rating
0.0	

c18. Floorbeams (LF)

Total Quantity	Condition Rating
0.0	2

Random spalls with exposed reinforcing on the vertical faces of the floorbeams, sometimes connecting across the bottom face. Corrosion has resulted in minor section loss on some of the exposed reinforcing. Many spall areas have been sealed with white epoxy, but corrosion is beginning to re-activate in some of these bars. Floorbeams in approach spans also have some spalls and patches. Floorbeam A above the West Pylon has a 1-ft diameter spall.

c26. Bearing Devices (EA)

Total Quantity	Condition Rating
0.0	1

No significant deficiencies.

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SUPERSTRUCTURE

c27. Arch (LF)

Total Quantity	Condition Rating
0.0	2

The arches have large patches, spalls and delamination on all faces, randomly throughout, but totaling less than 10% of the surface area of the arches.

c28. Arch Column/Hanger (EA)

Total Quantity	Condition Rating
0.0	2

Cracking, delaminated patches and spalls with exposed reinforcing. Some of the spalls have been coated with a white epoxy. Column A, Span D, south arch has a 12'-high x full-width delamination on the south face. Column caps exhibit cracking and spalls at the intersection with the floorbeams. Piles of concrete chunks have accumulated on the higher side of the arches at all the arch columns.

c30. Protective Coating System (LF)

Total Quantity	Condition Rating
0.0	2

Epoxy-urethane coating flaking off throughout arches.

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SUPERSTRUCTURE INSPECTION PHOTOS**

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
SUBSTRUCTURE INSPECTION**

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SUBSTRUCTURE

(60) NBIS Substructure Summary: 5

Recommended: 5,6

c33. Abutment Walls (LF)

Total Quantity	Condition Rating
129.0	2

East abutment has minor cracking below stringer 4, and a 28" high corner spall on the south edge of the south pedestal. West abutment has a 2'x6'x8" spall at the south end, along with two 3'-long edge spalls in the same area.

c35. Abutment Columns/Bents (EA)

Total Quantity	Condition Rating
0.0	

c34. Abutment Caps (LF)

Total Quantity	Condition Rating
129.0	2

South edge of east abutment spalled. Debris on seats.

c38. Pier Columns/Bents (EA)

Total Quantity	Condition Rating
0.0	2

Full-height vertical crack on west face of north column, Pier 5. 3'-high vertical crack on north face of south column, Pier 6. A 4'x18" and a 2'x1' corner spalls on the NE corner of Pier 6. Piers 7 and 8 have spalls on the interior faces of the columns, with exposed rebar on Pier 8. A 2'-long edge spall on the bottom east edge of the Pier 8 south column cap.

c36. Pier Walls (LF)

Total Quantity	Condition Rating
580.5	

None of the piers have walls. This item should not be have been rated.

c37. Pier Caps (LF)

Total Quantity	Condition Rating
580.5	1

No significant deficiencies.

c39. Backwalls (LF)

Total Quantity	Condition Rating
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SUBSTRUCTURE INSPECTION PHOTOS**

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
CULVERT INSPECTION**

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CULVERT

(62) NBIS Culvert Summary:

N

Recommended:

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CULVERT INSPECTION PHOTOS**

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
CHANNEL INSPECTION**

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CHANNEL

(61) NBIS Channel Summary: 6 **Recommended:** 5,6

c51. Alignment (LF)

Total Quantity	Condition Rating
200.0	2

Stream appears to be gradually shifting or widening eastward at the bridge, in large part because of the runoff from east approach roadway.

c52. Protection (LF)

Total Quantity	Condition Rating
200.0	1

The stone protection around the base of Pier 12 has been repaired.

c53. Hydraulic Opening (EA)

Total Quantity	Condition Rating
1	1

More than adequate - Extremely remote chance of overtopping.

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
CHANNEL INSPECTION PHOTOS**

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
SIGNS/UTILITIES INSPECTION**

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SIGNS/UTILITIES

(41) Open, Posted or Closed: A

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SIGNS/UTILITIES INSPECTION PHOTOS**

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SUPPLEMENTAL INSPECTION**

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SUPPLEMENTAL

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
CRITICAL FINDINGS**

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
REVIEW**

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Photo 1 | Ponding and clogged scupper along south curb, Span C (typical of multiple locations)



Photo 2 | Damaged seal 2



Photo 3 | Damaged seal



Photo 4 | Typical poor condition of railing.



Photo 5 | Wearing surface deterioration



Photo 6 | Wearing surface cracking 2

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Photo 7 Wearing surface cracking



Photo 8 Typical spalls with exposed rebar in arch span deck soffit.



Photo 9 Typical cracking, leakage, efflorescence and spalls in approach span deck soffit.



Photo 10 Typical condition of floorbeams



Photo 11 Typical spalls on arches.



Photo 12 Continued slow erosion of the east shale banks.

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION
MAINTENANCE**

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