



STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

Structure File Number: 1812831

Inventory Bridge Number: CUY 00480 06.470 N

I-480 over ROCKY RIVER

Inspection Type: Routine

Inspection Date: 09/16/2014

District: 12

County: CUYAHOGA

Place Code (FIPS): FAIRVIEW PARK

Bridge Type: STEEL

Type of Service: HIGHWAY

Owner: OHIO STATE TRANSPORTATION DEPARTMENT

Inspection Responsibility: OHIO STATE TRANSPORTATION  
DEPARTMENT

Maintenance Responsibility: OHIO STATE TRANSPORTATION  
DEPARTMENT

Lead Inspector: Costa, Jose

Reviewed By: Brokaw, Michael

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

Structure File Number: 1812831

Inventory Bridge Number: CUY 00480 06.470 N

Bridge Type: 3 - STEEL/6 - GIRDER (FLOOR SYSTEM)/3 - DECK

Sufficiency Rating: 88.0

Date Built: 7/1/1970

District: 12 Place Code (FIPS): FAIRVIEW PARK

I-480 over ROCKY RIVER

Type of Service on: HIGHWAY



Photo 1	Looking southwest
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Unit of Measure: ENGLISH  
 Structure File Number: 1812831  
 Sufficiency Rating: 88.0

**Bridge Inventory and Appraisal**  
 Inventory Bridge Number: CUY 00480 06.470 N  
 1 ROCKY RIVER

Report Date: 09/16/2014  
 BR. TYPE: 3 - STEEL/6 - GIRDER (FLOOR SYSTEM)/3 - DECK  
 Date of Last Inventory Update: 03/23/2015

(2) District: 12 (4) FIPS Code: 26446 - FAIRVIEW (102) Direction of Traffic: 2 - 2-way traffic	(3) County: 18 - CUYAHOGA  (216) Temporary:	(9) Location: 2.07 MI. W. OF JCT. I-71 (208) Route On Bridge: 99 - Non highway traffic (110) Truck Network: Y (42A) Type Serv (On): 1 - Highway	(7) Facility Carried: I-480 (207) Route Under Bridge: 10 - State (ODOT) (Toll) (101) Parallel: N (42B) Type Serv (Under): 5 - Waterway
<b>Inventory Route Data</b>		(45) Main Spans Number: 9 (46) Approach Spans Number: 0 (307) Total Spans: 0	Type: 3 - STEEL/6 - GIRDER (FLOOR SYSTEM)/3 - DECK Type: N - NONE/N - NONE/N - NONE (48) Max Span: 200 Ft (49) Overall Leng: 1571 Ft
(5A) Route On/Under: 1 - Route carried "on" the (5D) Route No: 00480 (6) Feature Intersected: ROCKY RIVER (3) County: CUY (200) Mileage: 06.470 (201) Special Desig: N (209)Mile Marker: 8.64 (29) Avg. Daily Traffic (ADT): 106,830 (235) Truck Traf: 4,620 (210) Corridor: Y (26) Functional Class: 11 - Urban - Principal	(5B) Hwy Sys: 1 - Interstate Highway (5E) Dir: 0 - Not (5C) Des: 1 - Mainline (201) Special Desig: N (209)Mile Marker: 8.64 (30) ADT Year: 2010 (104) NHS: 1- NHS BRIDGE (100) Strahnt: 1 - STRAHNET Interstate bridge	Substructure: Abut-Rear (532) Matl: 2 - Concrete Abut-Fwd (527) Matl: 2 - Concrete Pier-Pred (535) Matl: 2 - Concrete Pier-Other (538) Matl: N - None Pier-Other (541) Matl: N - None (545) Pier, Total Count: 8 (663) Stream Velocity: (92B) Dive: N Freq: 0 (93B) Date of Last Dive Insp:	Foundation and Scour Information: (531) Type: 5 - Stub Gravity (533) Fnd: 6 - Rock (526) Type: 5 - Stub Gravity (528) Fnd: 6 - Rock (534) Type: 5 - Capped Column (536) Fnd: 6 - Rock (537) Type: N - None (539) Fnd: 0 - Other (540) Type: N - None (542) Fnd: 0 - Other (113) Scour: 8 - Bridge foundations determined to be stable for the assessed or (655) Chan Prot: 0 - Other (grass, bushes, trees) (657) Drainage Area:
<b>Intersected Route Data</b>		<b>Clearance Under the Bridge</b>	
(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
<b>Clearance On the Bridge</b>		<b>Load Rating Information</b>	
Min. Hrizz on Bridge: (53) Prac Max Vert On Brg: Min Vrt Clr On Brg: Min Latl Clr: (39) Vrt Clr Lft:	(335) NC: 67 Ft (47) CARD: 67 Ft (336) NC: 0 Ft (10) CARD: 99.99 Ft (338) Right NC: 10.667 Ft (337) Right CARD: 10.667 Ft (340) Left NC: 9.667 Ft (339) Left CARD: 9.667 Ft	(31) Design Load: 6 - HS20-44 & Alternate Military Loading (64) Opr Rat Fact: 1.250 (66) Inv Rat Fact: 1.000 (734) Ohio Percent Legal 100 (704) Year of Rating: 7/1/2000 (63) Analysis: 2 - Load Factor Rating (LFR) (708) Rate Soft: 1 - BARS (707) PE# 0	(71) Waterway Adequacy: 8 (72) Approach Alignment: 8 (67) Calc Str Appraisal: 6 - Equal to present minimum (68) Calc Deck Geometry: 9 - Superior to present (69) Calc Underclearance: N - Not applicable
<b>Structure Information</b>		<b>Approach Information</b>	
(19) Bypass Length: 1 Miles (16) Latitude: 41.424203 (20) Toll: 3 - On Free Road, the structure is toll (27) Date Built: 1970 (28A) No. Lanes On: 8 (301) Horiz Curve: (32) App. Rdw Width: 103 Ft (52) Deck Width: 144 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: N - None (427) Right Matl: N - None (412) Flared: N (407) Railing: 1 - Reinforced Concrete Parapet (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: 2 - Stone (No. 1 Aggregate)	(17) Longitude: -81.853842 (106) Major Rehabilitation: Major Reconstruction Date: (28B) No. Lanes Under: 0 (34) Skew: 0 Deg (51) Brg. Rdw Width: 142 Ft Deck Area: 226227 (50B) Right: 0 Ft (426) Type: N - None or N/A (RR, Pedestrian, (428) Type: N - None or N/A (RR, Pedestrian, (408) Composite: N - Non-composite	(401) Approach Guardrail: 1 - Steel Beam (403) Approach Pavement: 2 - Bituminous (402) Grade: 1 - Good	
		<b>Culvert Information</b>	
		(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
		<b>General Information</b>	
		(475) Main Member: 3 - Welded Built-Up Steel (414) Expansion Joint: 2 - SLIDING METAL PLATE ANGLE// (453) Bearing Devices: 2 - ROCKERS & BOLSTERS/N - NONE/ (38) Navigation: N - No, it is not a navigable stream (92C) Spec Insp: N Freq: 0 (92A) Fracture Critical Insp: Y Freq: 24 (474) Long Member: 2 - Three Girder Bridge (486) Structural Steel Memb: U - Unknown  (203) Bridge Dedicated	(477) Moment Plate: 2 - Moment Plates (Riveted or (40) Horiz Clear: 0 Ft (93C) Special Inspection Date: (93A) Special Inspection Date: 12/31/2013 (468) Hinges: 3 - Seated Hinges (Rollers, Plates, Pot Bearings) (465) Framing: U (407) Railing: 1 - Reinforced Concrete Parapet (482) Paint: 5 - Paint System OZEU

Unit of Measure: ENGLISH  
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Report Date: 09/16/2014  
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 Date of Last Inventory Update: 03/23/2015

General Information (Continued)		Original Plans Information	
(37) Hist Significance: 5 - Not eligible (112) NBIS: Yes (842) Hist/Designer: (827) Hist Build Year: (828) Hist Type: (98A) Border Bridge (98B) Resp: (99) SFN:		(250) Fabricator: BETHLEHEM (249) Contractor: NAT'L ENGR. (248) Ohio Original Construction Project Number: 067070 (252) Microfilm Reel: CUY052 (251) Standard Drawing: SD-1-65 Aperture Cards: (246) Orig: Y (247) Repair: Y (245) Fabr: Y (709) Rating Score: 1 - Plan information available for load rating analysis (Default)	
Proposed Improvements		Utilities	Special Features
(114) Future ADT (On Bridge): 148280 (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: Y (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: 6 (59) Superstructure: 6 (60) Substructure: 6 (62) Culvert: N (61) Channel: 6 (c6) Approaches: 6 General Appraisal: 6 (41) Operational Status: A (90) Inspection Date: 09/16/2014 (91) Desig Insp Freq: 12 Months	(36A) Railings: 1 - Meets acceptable standards (36B) Transitions: 1 - Meets acceptable standards (36C) Guardrail: 1 - Meets acceptable standards (36D) Rail Ends: 1 - Meets acceptable standards (92A) Fracture Critical: Y (113) Scour Critical: 8 - Bridge foundations determined to 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: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None	



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APPROACH INSPECTION PHOTOS**

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I-480 over ROCKY RIVER

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

Structure File Number: 1812831

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Type of Service on: HIGHWAY

**DECK**

**(58) NBIS Deck Summary:** 6

**Recommended:** 5,6

**c7.1 Floor/Slab (SF)**

Total Quantity	Condition Rating
226224	2

Areas of corrosion in the stay-in-place forms next to the expansion joints. Full-depth hole in the deck near the north parapet on the east side of the expansion joint in Span 4. Also, a full-depth hole along the west face of Floorbeam 50 near Girder A in Span 6 (covered by joint armor on top).

**c7.2 Edge of Floor/Slab (LF)**

Total Quantity	Condition Rating
3142	

**c8. Wearing Surface (SF)**

Total Quantity	Condition Rating
223082	2

Transverse cracks up to 1/16" wide at approx. 7 ft. apart. Large patch in Span 4 eastbound lanes is starting to deteriorate. Also, some smaller deteriorated patches in Span 6. Full-depth hole in the deck near the north parapet on the east side of the expansion joint in Span 4.

**c11. Railing (LF)**

Total Quantity	Condition Rating
3142	2

Spalls with exposed corroded rebar typical along the tops of the railings full length, and along bottom interior edges near joints. Spalls with exposed corroded rebar on exterior faces where sign posts are connected. Many access panel covers in the railing are missing. Median parapet has shallow spalls with exposed corroded rebar throughout, and the top seal is detached and hanging along the side of the parapet in Spans 6 and 7.

**c12. Drainage (EA)**

Total Quantity	Condition Rating
0.0	2

Leakage and surface corrosion below neoprene couplers with loose steel bands. Minor debris in scuppers. Cracked sections of grates in eastbound lanes shoulder, Span 6, and westbound lanes shoulder, Span 4.

**c13. Expansion Joint (LF)**

Total Quantity	Condition Rating
0.0	3

Joint armor at the abutments has separated at the seams, deformed across joint, and is banging loudly under live load.

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DECK INSPECTION**

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**DECK**

Full-depth loss of concrete under the joint armor on the east face of Floorbeam 50 next to Girder A in Span 6. Expansion joint over East Abutment bangs loudly when wheel loads go over the area around Girder B.



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DECK INSPECTION PHOTOS**

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

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**SUPERSTRUCTURE**

**(59) NBIS Superstructure Summary:**    6

**Recommended:**    5,6

**c14. Alignment (EA)**

Total Quantity	Condition Rating
9	1

No misalignment noted.

**c15.1 Beams/Girders (LF)**

Total Quantity	Condition Rating
0.0	2

Laminating corrosion and debris typical at girder hinge components due to leakage through joints. Girder F top flange is tight up against the East Abutment backwall.

**c16. Diaphragm/Cross Frames (EA)**

Total Quantity	Condition Rating
0.0	1

No significant deficiencies in cross frames.

**c17. Stringers (LF)**

Total Quantity	Condition Rating
0.0	2

Surface corrosion with no section loss on exterior faces of fascia stringers.

**c18. Floorbeams (LF)**

Total Quantity	Condition Rating
0.0	1

Peeling paint and surface corrosion on floorbeams adjacent to expansion joints.

**c26. Bearing Devices (EA)**

Total Quantity	Condition Rating
0.0	1

Laminating corrosion and debris on the rocker bearing at girder hinges under the joints. Minor surface corrosion on masonry plates on Piers 1 and 8. Nested rocker bearings for Girders E & F at Pier 8 tilted excessively. Girder E bearing at East Abutment has heavy fretting corrosion, but appears to be bearing properly.

**c30. Protective Coating System (LF)**

Total Quantity	Condition Rating
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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:**      6

**Recommended:**    5,6

**c33. Abutment Walls (LF)**

Total Quantity	Condition Rating
288	2

East Abutment has a 9"x9"x18" corner spall next to Bearing A and a 35"x10"x4" spall next to Bearing F, but the masonry plates for these bearings are still fully on concrete.

**c35. Abutment Columns/Bents (EA)**

Total Quantity	Condition Rating
0.0	

**c34. Abutment Caps (LF)**

Total Quantity	Condition Rating
288	2

East Abutment has a 9"x9"x18" corner spall next to Bearing A and a 35"x10"x4" spall next to Bearing F, but the masonry plates for these bearings are still fully on concrete.

**c38. Pier Columns/Bents (EA)**

Total Quantity	Condition Rating
0.0	2

All piers except Pier 1 have some cracking, typically at the corners. Pier 4 west face, Pier 7 west face and Pier 6 both faces have more delamination than the other piers, but total distressed area is less than 5%.

**c36. Pier Walls (LF)**

Total Quantity	Condition Rating
1152	

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

**c37. Pier Caps (LF)**

Total Quantity	Condition Rating
1152	1

No significant deficiencies.

**c39. Backwalls (LF)**

Total Quantity	Condition Rating
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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
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:**



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

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

Structure File Number: 1812831      Inventory Bridge Number: CUY 00480 06.470 N      Bridge Type: 3 - STEEL/6 - GIRDER (FLOOR SYSTEM)/3 - DECK  
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**CHANNEL**

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

**c51. Alignment (LF)**

<b>Total Quantity</b>	<b>Condition Rating</b>
200.0	1

Channel is perpendicular to bridge.

**c52. Protection (LF)**

<b>Total Quantity</b>	<b>Condition Rating</b>
200.0	2

The localized scour that seemed to be caused the drainage troughs next to Pier 6 appears to have stabilized and is not progressing. Erosion troughs are occurring in the slopes, but this is due to runoff from roadway, not due to flow in the river.

**c53. Hydraulic Opening (EA)**

<b>Total Quantity</b>	<b>Condition Rating</b>
1	1

More than adequate - Extremely remote chance of overtopping.

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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

**c55. Signs (EA)**

Total Quantity	Condition Rating
0.0	1

**c56. Sign Supports (EA)**

Total Quantity	Condition Rating
0.0	1

Some shallow spalls on exterior of railings at sign post supports.

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

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**STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
SUPPLEMENTAL INSPECTION**

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**SUPPLEMENTAL**

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SUPPLEMENTAL INSPECTION PHOTOS**

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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 Typical good paint and steel condition.



Photo 2 Evidence of edge spalls occurring in the tops of the backwalls.



Photo 3 Corner crack on a pier column (wider than typical).



Photo 4 Drainage troughs at bases of Pier 6 columns. Localized scour that was occurring last inspection seems to have stabilized and is not progressing.



Photo 5 Erosion trough extending down East Abutment slope, getting deeper.

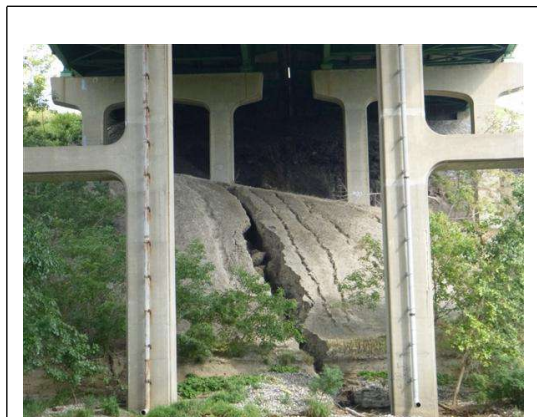


Photo 6 Erosion trough in east spans seen from the river; trough has been getting deeper.

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
MAINTENANCE**

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