HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

Ohio [39]	Cuyahoga County [035]	Cleveland [16000]	E OF SCRANTON AVE (FLATS)	41-29-36 = 41.493333	081-41-32 = -81.692222

1869604	Highway agency district 12	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		

Route: #Num!		EAGLE AVE (FLATS)	Toll: On free road [3]	Features intersected: CUYAHOGA RIVER (FLATS)	

Design - main: Steel [3]		Design - approach: Steel [3]		Kilometerpoint: 0 km = 0.0 mi	
1	Movable - Lift [15]	2	Frame [07]	Year built: 1930	Year reconstructed: 1991
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is eligible for the NRHP. [2]	

Total length: 90.2 m = 295.9 ft	Length of maximum span: 65.8 m = 215.9 ft	Deck width, out-to-out: 15.2 m = 49.9 ft	Bridge roadway width, curb-to-curb: 11.9 m = 39.0 ft		
Inventory Route, Total Horizontal Clearance: 12 m = 39.4 ft	Curb or sidewalk width - left: 2.6 m = 8.5 ft	Curb or sidewalk width - right: 0 m = 0.0 ft			

Deck structure type	Steel plate (includes orthotropic) [5]
Type of wearing surface	Bituminous [6]
Deck protection	Other [9]
Type of membrane/wearing surface	Other [9]

Weight Limits

Bypass, detour length: 0.6 km = 0.4 mi	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 0 metric ton = 0.0 tons	
	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 32.4 metric ton = 35.6 tons	
	Bridge posting: Equal to or above legal loads [5]		Design Load: M 18 / H 20 [4]	

Functional Details

Average Daily Traffic	7000	Average daily truck traffi	10 %	Year	1999	Future average daily traffic	9716	Year	2024
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	2	Approach roadway width	11.9 m = 39.0 ft				
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median					
Parallel structure designation	No parallel structure exists. [N]								
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	Navigation control on waterway (bridge permit required). [1]				
Navigation vertical clearanc	6.4 m = 21.0 ft	Navigation horizontal clearance	57 m = 187.0 ft						
Minimum navigation vertical clearance, vertical lift bridge	6.4 m = 21.0 ft	Minimum vertical clearance over bridge roadway	4.47 m = 14.7 ft						
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]								
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A						
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]						
Appraisal ratings - underclearances	N/A [N]								

Repair and Replacement Plans

Type of work to be performed

Bridge deck rehabilitation with only incidental widening. [36]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	$19,998,000	Roadway improvement cost	$1,998,000
Length of structure improvement	90.2 m = 295.9 ft	Total project cost	$21,996,000
Year of improvement cost estimate	2003		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Bridge closed to all traffic [K]	Appraisal ratings - structural	
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Fair [5]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place but in a deteriorated condition [3]	Sufficiency rating	32
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]		
Inspection date	September 2005 [0905]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y48]	Underwater inspection date	June 2051 [0651]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 6 9 6 0 4
1 Structure File Number 7

Bridge Number **CUY EAGLE1009M** **CLEVELAND** **Date Built 07/01/1930 - 1991**
CO ROUTE UNIT

District **12** Bridge Type **STEEL/TRUSS/MOVABLE - LIFT** Type Service **1** **55 CUYAHOGA RIVER (FLATS)** **CUY**

DECK Out/Out 50.0			2. Wearing Surface THCK = 4.0 6-BITUM (ASPHLT CONCRT) 41		1
1. Floor 7-STEEL BUCKLE PLATE 8	2				
3. Curbs, Sidewalks, Walkways 1-CONCRETE N-NONE 9	4		4. Median W.S. Date = 01/01/1991 42		
5. Railing 0-OTHER 10	2		6. Drainage 3-SCUPPERS & DWNSPTS 43		1
7. Expansion Joints 2-SLIDING METAL PLATE AN 11	2		**8. Summary** 44		5
SUPERSTRUCTURE MAX.SPAN=216					
9. Alignment 12	1		10. Beams/Girders/Slab 2-RIVETED BUILT-UP STEEL 45		2
TOT.LGTH=296					
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46		3
13. Floor Beams 14	3		14. Floor Beam Connections 47		3
15. Verticals 15	2		16. Diagonals 48		3
17. End Posts 16	2		18. Top Chord 49		2
19. Lower Chord 17	3		20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		2
23. Portals 19	2		24. Bearing Devices 2-ROCKERS B-FIXED 52		3
25. Arch 20			26. Arch Columns or Hangers 53		
27. Spandrel Walls 21			28. Protective Coating System TYPE = 0-OTHER DATE = 01/01/1993 54		2
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		2
31. Live Load Response 23	S		**32. Summary** 56		3
SUBSTRUCTURE N-NONE			PIERS=2 SPANS = 1		
33. Abutments 7-STEEL AND CONCRETE 24	3		34. Abutment Seats 57		2
35. Piers TYPE = 7-STEEL AND CONCRETE 25	3		36. Pier Seats 58		2
37. Backwalls 26	2		ABUTMENT:=NONE/NO / TIMBER 38. Wingwalls 59		2
39. Fenders and Dolphins 27	3		40. Scour 7-COUNTERMEAS INSTALLED 60	1	1
41. Slope Protection N-NONE 28			**42. Summary** DIVE DT=06/01/1951 62		4
CULVERTS					
43. General 29			44. Alignment 63		
45. Shape 30			46. Seams 64		
47. Headwalls or Endwalls 31			48. Scour 65		
49. 32			50. Summary 66		
CHANNEL					
51. Alignment 33	1		52. Protection 3-SHEET PILING 67		2
53. Waterway Adequacy 34	1		**54. Summary** 68		6
APPROACHES					
55. Pavement 2-BITUMINOUS 35	3		56. Approach Slabs 69		
57. Guardrail 7-CONC DFLCT PARAPET 36	1		58. Relief Joints 70		
59. Embankment BRDG.WIDTH=39.2 37	1		**60. Summary** PCT.LEGAL=100 71		4
GENERAL					
61. Navigation Lights 38	2		62. Warning Signs ROUTINE.RESP: 4-CITY/LOCAL MAINT.RESP: 4-CITY/LOCAL 72		4
MVC ON=14.7 UND=0000					
63. Sign Supports 39			64. Utilities ELEC/TEL/TV/ 73		
65. Vertical Clearance 40	1		**66. General Appraisal & Operational Status** 74	COND 3	STAT X

67. INSPECTED BY

SIGNED

7 0 8 9 0
76 PE

J H
78 INITIALS

68. REVIEWED BY

SIGNED

81 PE

83 INITIALS

DOT 2852

DECK AREA 14,801

Date 0 9 0 7 1 1

0 0 1 1 N N N N

Date

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	6	9	6	0	4

1 Structure File Number 7

Bridge Number **CUY** (CO) **EAGLE** (ROUTE) **1009M** (UNIT)

Date Built 07/01/1930 - 1991

District **12** Bridge Type **STEEL/TRUSS/MOVABLE - LIFT** Type Service **1** **5** **5**

CUYAHOGA RIVER (FLATS)

00 NO REMARKS FOUND FOR THIS INSPECTION.

District: **12** County **CUYAHOGA**
(101) Location: **E OF SCRANTON AVE (FLATS)** (102) Facility Carried: **EAGLE AVE (FLATS)**
(2)FIPS Code: **CLEVELAND** (103) Route On Bridge: **MUNICIPAL** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **N** (12)Parallel: **N**
(95) Insp: **CITY/LOCAL** (96) Maint: **CITY/LOCAL** (97) Routine: **CITY/LOC** (100) Type Serv: (On): **HIGHWAY/PEDESTRIAN** (Under): **WATERWAY**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **MUNICIPAL STREET**
Route No.: **EAGLE** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **CUYAHOGA RIVER (FLATS)**
(5) County: **CUY** Mileage: **1009M** Special Desig:
(6) Avg. Daily Traffic(ADT): **7,000** (7) ADT Year: **1999**
(8) Truck Traf: **700** (14) NHS: **NO** - **X** (15) Corridor: **N**
(16) Functional Class: **OTHER PRINCIPAL ARTERIAL-URBAN** (19) Strahnt: **Not Applicable**

Intersected Route Data

(22) Route On/Under: Hwy Sys:
Route No.: Dir: Des: Pref:
(23) Feature Intersected:
(24) County: Mileage: Special Desig:
(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **39.2** Ft Card: **39.4** Ft
(155) Prac Max Vert On Brg: **14.7** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **14.7** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **12.0 / 31.4** Ft
(81) Vrt Clr Lft: **21.0** Ft

Structure Information

(38) Bypass Length: **04** Miles
(39) Latitude: **41 Deg 29.6 Min** Longitude: **81 Deg 41.5 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1930** (42) Major Rehabilitation: **01/01/1991**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **39** Ft (50) Brg. Rdw Width: **39.2** Ft
(51) Deck Width: **50.0** Ft Deck Area: **14801** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **8** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SIDEWALK(>2')**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **OTHER**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **STEEL BUCKLE PLATE**
(61) Deck Protection: External: **OTHER**
Internal: **OTHER**
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**
Thickness: **4.0** in (119) Date of Wearing Surface: **01/01/1991**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **1** Type: **STEEL / TRUSS / MOVABLE - LIFT**
Approach Spans Number: **2** Type: **STEEL / FRAME / SIMPLE SPAN**
Total Spans: **3** (65) Max Span: **216** Ft (66) Overall Leng: **296** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **STEEL AND CONCRETE**	Type: **STUB-CAPPED PILE(MULTIPLE**	Fnd: **TIMBER PILES**
Abut-Fwd Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
Pier-Pred Matl: **STEEL AND CONCRETE**	Type: **OTHER**	Fnd: **TIMBER PILES**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **UUU** (74) Scour: **COUNTERMEAS INSTALLED TO CORRECT PROBLEM**
(189) Dive: **Y Freq: 48** Probe: **Y** Freq: **12** (75) Chan Prot: **SHEET PILING**
(189) Date of last Dive Insp: **06/01/1951** (152) Drainage Area: **001** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(157) Prac Max Vrt Under Clear: **0.0** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft

Load Rating Information

(48) Design Load: **H/20**
(83) Operating: **36** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **100**
Year of Rating: **1999**
(84) Analysis: **LOAD FACTOR (LF)**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by:
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **9**
(89) Approach Alignment **6**
Calc Gen Appraisal: **0**
Calc Deck Geometry: **5**
Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **CONC DFLCT PARAPET**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

Culvert Information

(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

General Information

(121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/FIXED**
(126) Navigation: **Control- Y** Vert Clr: **21.0** Ft Horiz Clear:: **187.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **OTHER** (139) Framing: **STRAIGHT**
Railing: **A36**
Pay Wt: **0** pounds Prime Loc: **COMBINATION (SHOP & FIELD)** Paint: **OTHER**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NON-REGISTERED HISTORIC BRIDGE**
(69) NBIS: **Y**
(---) Hist Builder: **F. L GORMAN**
Hist Build Year: **1930**
(69) Hist Type:
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **36 - BRG DECK REHAB WITH INCIDENTAL WIDENING**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2032**

Programming Info

PID Number: **5321**
PID Status: **PROGRAM**
PID Date: **10/23/1992**

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.:
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **/ 020**	3. **/ MMM**
4. **/**	5. **/**	6. **/**
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**3**
(I-42) Substructure:	**4**
(I-50) Culvert:	
(I-54) Channel:	**6**
(I-60) Approaches:	**4**
(I-66) General Appraisial:	**3**
(I-66) Operational Status:	**X**
Inspection Date:	**09/07/2011**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**0 DOES NOT MEET CURRENT STANDARDS**
Transitions:	**0 DOES NOT MEET CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
In Depth:	**N NONE N/A**
Fracture Critical:	**N NONE N/A**
Scour Critical:	**N NONE N/A**
Critical Findings:	**N NONE N/A**
Insp. Update Date:	**11/02/2011**

Utilities

(46) Electric:	**Y**
Gas:	**N**
Sanitary Sewer:	**N**
Telephone:	**Y**
TV Cable:	**Y**
Water:	**N**
Other:	**N**

Special Features

(161) Lighting:	**Y**
Fencing:	**Y**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**Y**
Other-Feat:	**N**
(184) Signs-on:	**Y**
Signs-Under:	**Y**
(162) Fence-Ht:	**8.0** Ft
(163) Noise Barr:	**Y**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-EAGLE-1009M-**
INT Field Bridge Marker: **---**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
		0						

(*) Percentages Should add to 100%