

The National Bridge Inventory contains data submitted by state transportation 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]	APPROX 700FT E ABBEY RD	41-29-06 = 41.485000	081-42-02 = - 81.700556
1801473	Highway agency district 12	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 10	SR 10	Toll On free road [3]	Features intersected	COLUMBUS RD	
Design - main	Concrete continuous [2]	Design - approach	Kilometerpoint	2566 km = 1590.9 mi	
3	Frame [07]	0	Other [00]	Year built	1930
				Year reconstructed	1993
				Skew angle	25
				Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]
Total length	29 m = 95.1 ft	Length of maximum span	20.1 m = 65.9 ft	Deck width, out-to-out	30.5 m = 100.1 ft
				Bridge roadway width, curb-to-curb	21.9 m = 71.9 ft
Inventory Route, Total Horizontal Clearance	22 m = 72.2 ft	Curb or sidewalk width - left	3.7 m = 12.1 ft	Curb or sidewalk width - right	3.7 m = 12.1 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Latex Concrete or similar additive [3]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	32.4 metric ton = 35.6 tons
0.2 km = 0.1 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	40.5 metric ton = 44.6 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 18 / H 20 [4]

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

Year of improvement cost estimate

Border bridge - state Border bridge - percent responsibility of other state

Border bridge - structure number

Inspection and Sufficiency

Structure status	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Equal to present minimum criteria [6]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - substructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of corrective action [3]"/>
Condition ratings - deck	<input type="text" value="Satisfactory [6]"/>		
Scour	<input type="text" value="Bridge not over waterway. [N]"/>		
Channel and channel protection	<input type="text" value="Not applicable. [N]"/>		
Appraisal ratings - water adequacy	<input type="text" value="N/A [N]"/>	Status evaluation	<input type="text" value="Functionally obsolete [2]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="90.6"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - transitions	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="October 2010 [1010]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

Unit of Measure: **English**
Structure File Number **1801473**
Sufficiency Rating: **90.8 fo**

Bridge Inventory Information
Inventory Bridge Number: **CUY 00010 1594**
ON COLUMBUS RD

Report Date **09/18/2012** BM-191 Page: 1 of 2
BR. Type CONCRETE / FRAME / CONTINUOUS
Date of Last Inventory Update: **10/31/2011**

District: **12** County **CUYAHOGA** (101) Location: **APPROX 700FT E ABBEY RD** (102) Facility Carried: **SR 10**
(2) FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **CITY/LOC** (100) Type Serv: (On): **HIGHWAY/PEDESTRIAN** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data
(3) Route On/Under: **ON** Hwy Sys: **STATE HIGHWAY** (63) Main Spans Number: **3** Type: **CONCRETE / FRAME / CONTINUOUS**
Route No.: **00010** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **66 Ft** (66) Overall Leng: **95 Ft**

(4) Feature Intersected: **COLUMBUS RD** (70) Substructure (71) Foundation and Scour Information
(5) County: **CUY** Mileage: **1594** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **OTHER**
(6) Avg. Daily Traffic(ADT): **11,960** (7) ADT Year: **2010** Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **OTHER**
(8) Truck Traf: **750** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **CAPPED COLUMN** Fnd: **OTHER**
(16) Functional Class: **MINOR ARTERIAL-URBAN** (19) Strahnt: **Not Applicable** 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)**

Intersected Route Data
(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET** No of Piers Predominate: **02** Other: **NN** Other: **NN**
Route No.: **COLRD** Dir: Des: **1** Pref: (86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(23) Feature Intersected: **SR-10 LORAIN AVE** (189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **N/A**
(24) County: **CLE** Mileage: **4026** Special Desig: **S** (189) Date of last Dive Insp: (152) Drainage Area: **NNN Sq Mi**

(25) Avg. Daily Traffic(ADT): **1,000** (26) ADT Year: **1973**
(27) Truck Traf: **0** (28) NHS: **NO - X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **72.0 Ft**
(155) Prac Max Vert On Brg: **9999.9 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **9999.9 Ft**
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **6.0 / 6.0 Ft**
(81) Vrt Clr Lft: **0.0 Ft** (78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **1.0 / 1.0 Ft**

Clearance Under the Bridge
(156) Min. Horiz Under Clear: NC: **0.0 Ft** Card: **55.0 Ft**
(157) Prac Max Vrt Under Clear: **16.6 Ft**
(77) Min Vert Under Clear: NC: **0.0 Ft** Card: **14.6 Ft**
(78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **1.0 / 1.0 Ft**

Load Rating Information (88-89) Appraisal
(48) Design Load: **H/20** (Including calculated Items)
(83) Operating: **37 Ton**
Inventory: **27 Ton**
Ohio Percent of Legal Load **150** (88) Waterway Adequacy **N**
Year of Rating: **2010** (89) Approach Alignment **8**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **6**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **3**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **3**

Approach Information
(109) Approach Guardrail: **OTHER**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

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 **OTHER (CONCRETE RIGID FRAME)** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **OTHER/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0 Ft** Horiz Clear: **0.0 Ft**
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **NONE** (139) Framing: **NONE**
Railing: **NONE**
Paint: **NONE**
Pay Wt: **0** pounds Prime Loc: **NONE**
Bridge Dedicated Name:

(62) Wearing Surface: **LATEX MODIFIED CONCRETE OVERLAY**
Thickness: **1.2** in (119) Date of Wearing Surface: **12/29/1993**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Unit of Measure: **English**
 Structure File Number **1801473**
 Sufficiency Rating: **90.8 fo**

Bridge Inventory Information
 Inventory Bridge Number: **CUY 00010 1594**
ON COLUMBUS RD

Report Date **09/18/2012** **BM-191** Page: 2 of 2
BR. Type CONCRETE/FRAME/CONTINUOUS
 Date of Last Inventory Update: **10/31/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NOT HISTORIC		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: OHIO STATE HIGHWAY		Hist Build Year: 1930		(143) Contractor:			
DEPARTMENT				(144) Ohio Original Construction Project No.: COUNTY			
(69) Hist Type: CONTINUOUS				(---) Microfilm Reel:			
(161) Special Features (see below):				(151) Standard Drawing:			
(105) Border Bridge State: Resp % (106) SFN:				Aperture Cards: Orig: N Repair: N Fabr: Y			
Proposed Improvements		Programming Info		Plan Information Available: ONO PLANS OR INFORMATION AVAILABLE			
(90) Type Work: -		PID Number: 5543		(153) Repair Projects			
(90) Length: Ft		PID Status: PROGRAM		1. /	2.	3.	
(90) Bridge Cost (\$1000s): 0		PID Date: 12/29/1993		4.	5.	6.	
(90) Roadway Cost (\$1000s): 0				7.	8.	9.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		10.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 1 MEETS CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N	Gas: U	Fencing: N		
(I-32) Superstructure: 6	Transitions: 1 MEETS CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N	Telephone: U	Splash-Guard: N		
(I-42) Substructure: 6	Guardrail: 1 MEETS CURRENT STANDARDS	TV Cable: U	Catwalks: N	Water: U	Other-Feat: U		
(I-50) Culvert:	Rail Ends: 1 MEETS CURRENT STANDARDS	Other: U	(184) Signs-on: N		Signs-Under: N		
(I-54) Channel:	In Depth: N NONE N/A		(162) Fence-Ht: 0.0 Ft		(163) Noise Barr: N		
(I-60) Approaches: 6	Fracture Critical: N NONE N/A						
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A						
(I-66) Operational Status: A	Critical Findings: N NONE N/A						
Inspection Date: 05/18/2012	Insp. Update Date: 08/02/2012						
(94) Desig Insp Freq: 12 Months							
SFNs Replacing this retired bridge:	-	INV Field Bridge Marker:	CUY-00010-1594 -				
SFNs That where replaced by this bridge:	-	INT Field Bridge Marker:	CLE-COLRD-4026 -S				
This bridge was retired and copied to:							
The bridge was copied from:							

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0
215	REINFORCED CONC ABUTMENT	221	LF	0	0	0	0	0
234	REINFORCED CONC CAP	221	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
331	CONCRETE BRIDGE RAILING	190	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	1	4	7	3
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Bridge Number **CUY 00010 1594** CLEVELAND
CO ROUTE UNIT

Date Built **07/01/1930 - 1993**

District **12** Bridge Type **CONCRETE/FRAME/CONTINUOUS**

Type Service **1 51 COLUMBUS RD**

CUY

DECK		Out/Out 100.0	2	THCK = 1.2		2
1. Floor	1-REINF CONCRT (PRESTRSD	8	2	2. Wearing Surface	3-LATEX MODIFIED CONCRET	41
		1-CONCRETE		W.S. Date = 12/29/1993		
3. Curbs, Sidewalks, Walkways	1-CONCRETE	9	2	4. Median		42
5. Railing	5-REINF CONCR POST & CON	10	2	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints	N-NONE	11		8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=66	1			2
9. Alignment		12	1	10. Beams/Girders/Slab	0-OTHER (CONCRETE RIGID	45
		TOT.LGTH=95				
11. Diaphragms or Crossframes		13	2	12. Joists/Stringers		46
13. Floor Beams		14		14. Floor Beam Connections		47
15. Verticals		15		16. Diagonals		48
17. End Posts		16		18. Top Chord		49
19. Lower Chord		17		20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18		22. Sway Bracing		51
23. Portals		19		24. Bearing Devices	0-OTHER N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = N-NONE DATE =	54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=2 SPANS = 3		1
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = 2-CONCRETE	25	2	36. Pier Seats		58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=OTHER / OTHER	59
39. Fenders and Dolphins		27		40. Scour	N-BRIDGE NOT OVER WATERW	60
41. Slope Protection	N-NONE	28		42. Summary		62
				DIVE DT=N/A		
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		52. Protection	X-N/A	67
53. Waterway Adequacy		34		54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs		69
57. Guardrail	0-OTHER	36	2	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=72.0	37	1	60. Summary		71
				PCT.LEGAL=150		
GENERAL						
61. Navigation Lights		38		62. Warning Signs	ROUTINE.RESP: 4-CITY/LOCAL MAINT.RESP: 1-OHIO TRAN DEPT	72
63. Sign Supports	MVC ON=9999 UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status		74
				COND ST		6 A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

M	S
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78 INITIALS

SIGNED

	5	9	4	8	7
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81 PE

Y	S
---	---

83 INITIALS

DOT 2852

DECK AREA 9,505

Date

0	5	1	8	1	2
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86

91

1	1	1	1	N	N	N	N
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92

69 Survey

99

Date

0	8	0	2	1	2
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100

105

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1	8	0	1	4	7	3
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1 Structure File Number 7

Bridge Number **CUY 00010 1594**
CO ROUTE UNIT

Date Built 07/01/1930 - 1993

District **12** Bridge Type **CONCRETE/FRAME/CONTINUOUS**

Type Service **1 5 1**

COLUMBUS RD

Deck FLOOR: LEACHING CRACKS @ 1'-5' SPACING. MOTTLED AREAS WITH
Deck STALACTITES. 110 SF OF SPALLS. CRUMBLING CONCRETE ON
Deck VERTICAL FACE OF DECK. 80 SF CUT HOLE IN NORTH UTILITY
Deck CHAMBER WITH FORM WORK VISIBLE UNDER SIDEWALK. FLOOR IS
Deck 10-15% DETERIORATED.
Deck WEARING SURFACE: A FEW CRACKS. SOME DELAMINATIONS. 2 SF
Deck SPALL IN WB LANE. WS IS 1-5% DETERIORATED.
Deck RAILING: SCALING. HEAVY DETERIORATION TO LARGE CONCRETE
Deck POSTS.
Superstructure BEAMS: LEACHED CRACKS. 140 SF OF SPALLS WITH EXPOSED
Superstructure RUSTING REBAR WITH SECTION LOSS.
Superstructure DIAPHRAGMS: SOME SPALLS. LEACHED CRACKS.
Substructure ABUTMENTS: SPALLS AND DELAMINATIONS.
Substructure PIERS: MANY LEACHED CRACKS. MOTTLED AREAS TO PIER CAPS.
Substructure DELAMINATIONS AND SPALLS. EXPOSED REBAR WITH SECTION LOSS.
Substructure BACKWALLS: CRACKS.
Substructure WINGWALLS: CRACKS. 4 SF SPALL WITH REBAR EXPOSED AT
Substructure REAR-LEFT.
Approaches PAVEMENT: CRACKS IN ASPHALT AND CONCRETE. MINOR SHALLOW
Approaches POTHOLES.
Approaches APPROACH SLAB: SOME MINOR SETTLEMENT AT BOTH ENDS IN EB
Approaches LANES.
Approaches GUARDRAIL: SPALLS. HEAVY DETERIORATION TO CONCRETE POSTS.
Approaches EMBANKMENT: FORWARD-RIGHT (SE) APPROACH WALK IS HEAVED UP
Approaches 2" AND CRACKED.
General WARNING SIGNS: POSTED AT 13' 4".
