HistoricBridges.org - National Bridge Inventory Data Sheet

2014 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]	Lucas County [095]	Toledo [77000]	E. OF SUMMIT	41-39-06.00 = 41.651667	083-31-42.00 = -83.528333

4860004	Highway agency district 2	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		

Route: #Num!		CHERRY STREET	Toll: On free road [3]	Features intersected: MAUMEE RIVER AND WATER S	

Design - main: Steel [3]	Design - approach: Concrete [1]	Kilometerpoint: 0 km = 0.0 mi			
2	Movable - Bascule [16]	10	Arch - Deck [11]	Year built: 1914	Year reconstructed: 2008
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 365.5 m = 1199.2 ft	Length of maximum span: 62.2 m = 204.1 ft	Deck width, out-to-out: 25.5 m = 83.7 ft	Bridge roadway width, curb-to-curb: 19.5 m = 64.0 ft				
Inventory Route, Total Horizontal Clearance: 15.9 m = 52.2 ft	Curb or sidewalk width - left: 2.4 m = 7.9 ft	Curb or sidewalk width - right: 2.4 m = 7.9 ft					
Deck structure type: Open Grating [3]							
Type of wearing surface: Other [9]							
Deck protection:							
Type of membrane/wearing surface:							

Weight Limits

Bypass, detour length	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 32.4 metric ton = 35.6 tons		
0.5 km = 0.3 mi	Method to determine operating rating: Load Factor(LF) [1]		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	30725	Average daily truck traffi	5 %	Year	1990	Future average daily traffic	42646	Year	2033

Road classification	Local (Urban) [19]	Lanes on structure	5	Approach roadway width	19.5 m = 64.0 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	Highway-waterway [6]	Lanes under structure	2	Navigation control	Navigation control on waterway (bridge permit required). [1]
Navigation vertical clearanc	9.4 m = 30.8 ft	Navigation horizontal clearance	61 m = 200.1 ft		
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft		
Minimum lateral underclearance reference feature	Highway beneath structure [H]				
Minimum lateral underclearance on right	3.4 m = 11.2 ft	Minimum lateral underclearance on left	3.4 m = 11.2 ft		
Minimum Vertical Underclearance	5.21 m = 17.1 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]		
Appraisal ratings - underclearances	Better than present minimum criteria [7]				

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	Open, no restriction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]

Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	
Pier or abutment protection	None present but re-evaluation suggested [5]	Sufficiency rating	85.6

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]

Inspection date	August 2013 [0813]	Designated inspection frequency	12	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	May 2010 [0510]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	

District: 02 | County: LUCAS | (101) Location: E. OF SUMMIT | (102) Facility Carried: CHERRY STREET
(2) FIPS Code: LUC-M-77000-TOLEDO | (103) Route On Bridge: MUNICIPAL | (104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 2-WAY TRAFFIC | (10) Temporary: | (11) Truck Network: N | (12) Parallel: N
(100) Type Serv: (On): HIGHWAY-PEDESTRIAN | (Under): HIGHWAY - WATERWAY

Inventory Route Data

(3) Route On/Under: ROUTE CARRIED "ON" THE STR | Hwy Sys: MUNICIPAL STREET (I.E. VILL
Route No: 01W02 | Dir: NOT APPLICABLE | Des: MAINLINE | Pref: N
(4) Feature Intersected: MAUMEE RIVER AND WATER ST
(5) County: TOL | Mileage: 00002 | Special Desig: N
(6)Avg. Daily Traffic(ADT): 18,250 | (7) ADT Year: 2010
(8) Truck Traf: 2,500 | (14) NHS: NON-NHS BRIDG | (15) Corridor: N
(16) Functional Class: URBAN - LOCAL | (19) Strahnt: NOT STRAHNET

Intersected Route Data

(22) Route On/Under: SINGLE ROUTE GOES "UNDER | Hwy Sys: COUNTY HIGHWAY (TOWNS
Route No: 01378 | Dir: | Des: 1 | Pref:
(23) Feature Intersected: CHERRY ST BRIDGE
(24) County: TOL | Mileage: 0002 | Special Desig:
(25)Avg. Daily Traffic(ADT): 3,100 | (26) ADT Year: 1974
(27) Truck Traf: 0 | (28) NHS: - X | (29) Corridor: N
(30) Functional Class: URBAN - LOCAL | (36) Strahnt: NOT STRAHNET

Clearance On the Bridge

(154) Min. Hriz on Bridge: NC: 0.0 | Card: 52.0 Ft
(155) Prac Max Vert On Brg: 9999.9 Ft
(67) Min Vrt Clr On Brg: NC: 0.0 | Card: 9999.9 Ft
(80) Min Latl Clr: NC: 0.0/0.0 Ft | Card: 0.0/0.0 Ft
(81) Vrt Clr Lft: 0.0 Ft

Structure Information

(38) Bypass Length: 03 Miles
(39) Latitude: 41 Deg 39 Min 04.09 Sec | Longitude: 83 Deg 31 Min 34.65 Sec
(40) Toll: ON FREE ROAD, THE STRUCTU
(41) Date Built: 7/1/1914 | (42) Major Rehabilitation: 1/1/2008
(43) No. Lanes On: 5 | No. Lanes Under: 2
(44) Horiz Curve: | (45) Skew: 0 Deg
(49) App. Rdw Width: 64 Ft | (50) Brg. Rdw Width: 64.0 Ft
(51) Deck Width: 83.5 Ft | Deck Area: 103380 Sq. Ft
(52) Median Type: NONE/NON BARRIER/NO JOINT
(53) Bridge Median: NO MEDIAN
(54) Sidewalks: | (left) 8.0 Ft | (right) 8.0 Ft
(55) Type Curb or Sidewalks:
(Left) Matl: CONCRETE | Type: SIDEWALK (GREATER THAN 2' IN WIDTH)
(Right) Matl: CONCRETE | Type: SIDEWALK (GREATER THAN 2' IN WIDTH)
(56) Flared: 0 | (57) Composite: Y - COMPOSITE
(58) Railing: TWIN STEEL TUBE (TST) BRIDGE RAILING
(59) Deck Drainage: SCUPPERS AND DOWNSPOUTS
(60) Deck Type: STEEL GRID - FILLED
(61) Deck Protection: External: NOT APPLICABLE (ONLY FOR BRIDGES FOR NO
Internal: NOT APPLICABLE (APPLIES ONLY TO BRIDGES
(62) Wearing Surface: CONCRETE (SEPARATE) - OVERLAY
Thickness: 2.0 in | (119) Date of Wearing Surface:
Slope Protection: NONE

(63) Main Spans Number: 1 | Type: STEEL/GIRDER (FLOOR SYSTEM)/MOVABLE - B
Approach Spans Number: 10 | Type: CONCRETE/ARCH/FILLED
Total Spans: 11 | (65) Max Span: 245 Ft | (66) Overall Leng: 1,238 Ft

(70) Substructure		(71) Foundation and Scour Information	
Abut-Rear	Matl: CONCRETE	Type: OTHER	Fnd: DRILLED SHAFTS
Abut-Fwd	Matl: CONCRETE	Type: GRAVITY	Fnd: TIMBER PILES
Pier-Pred	Matl: CONCRETE	Type: GRAVITY	Fnd: DRILLED SHAFTS
Pier-Other	Matl: CONCRETE	Type: SOLID WALL	Fnd: DRILLED SHAFTS
Pier-Other	Matl: SOLID WALL	Type: SOLID WALL	Fnd: DRILLED SHAFTS

No of Piers Predominate: | Other: | Other:
(86) Stream Velocity: 004.6 | (74) Scour: BRIDGE FOUNDATIONS DETERMINED TO BE STAB
(189) Dive: Y Freq: 60 | Probe: N Freq: 0 | (75) Chan Prot: STONE
(189) Date of last Dive Insp: 9/9/2015 | (152) Drainage Area: UUU Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: 0.0 Ft | Card: 42.0 Ft
(157) Prac Max Vrt Under Clear: 17.0 Ft
(77) Min Vert Under Clear: NC: 0.0 Ft | Card: 17.0 Ft
(78) Min Lat Under Clear: NC: 0.0/0.0 Ft | Card: 11.0/11.0 Ft

Load Rating Information

(48) Design Load: H20
Opr Rat Fact: 1.250 LD:
Inv Rat Fact: 1.000 LD:
(83) Ohio Percent of Legal Load: 150
Year of Rating: 2012
(84) Analysis: LOAD FACTOR (LF) RATING REPORTED BY RF U
(85) Rate Soft: COMBINATION
Analysis on Bars: NOT ON BARS [DEFAULT]
PE#: 0

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy: 9
(89) Approach Alignment: 8
Calc Gen Appraisal: 5
Calc Deck Geometry: 4
Calc Underclearance: 7

Approach Information

(109) Approach Guardrail: NONE
(110) Approach Pavement: BITUMINOUS | (111) Grade: FAIR

Culvert Information

(131) Culvert Type: NOT A CULVERT OR RIGID FRAME | (127) Length: 0.0 Ft
(129) Depth of Fill: 0.0 Ft | (130) Headwalls: NONE OR NOT APPLICABLE (NOT A CU

General Information

(121) Main Member: RIVETED BUILT-UP STEEL | (122) Moment Plate: MOMENT PLATES (RIVETED OR BOL
(169) Expansion Joint: SLIDING METAL PLATE ANGLE
(124) Bearing Devices: OTHER
(126) Navigation: Control-1 | Vert Clr: 31.0 Ft | Horiz Clear: 200.0 Ft
(193) Spec Insp: N | Freq: 0 | Date:
(188) Fracture Critical Insp: N | Freq: | Date:
(138) Long Member: FOUR OR MORE GIRDER BRIDGE | (135) Hinges: NOT APPLICABLE (STRUCTURES WITH NO
(141) Structural Steel Memb: A572 | (139) Framing: NONE OR NOT APPLICABLE
Railing: 2
Pay Wt: 402600 pounds | Prime Loc: SHOP | Paint: PAINT SYSTEM IZEU
Bridge Dedicated Name: MARTIN LUTHER KING BRIDGE

General Information (Continued)

(---) Hist Significance: NOT ELIGIBLE (69) NBIS: Y
(---) Hist Builder: SCHERZER ROLLING LIFT C. H. FATH & SON Hist Build Year: 2002
(69) Hist Type: DOUBLE LEAF
(161) Special Features (see below):
(105) Border Bridge State: Resp: %(106) SFN:

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: 1 PLAN INFORMATION AVAILABLE FOR LOAD RATI

Proposed Improvements

(90) Type Work: -
(90) Length: Ft
(90) Bridge Cost ($1000s):
(90) Roadway Cost ($1000s):
(90) Total Project Cost ($1000s): (90) Year:
(91) Future ADT (On Bridge): 25331 (92) Year of Future ADT: 2033

Programming Info

PID Number: 22369
PID Status: IA-OTHER
PID Date: 9/8/2002

(153) Repair Projects:

1) / MMM 2) / 020 3) / 020
4) / 004 5) / 004

Inspection Summary

(I-8) Deck:	6
(I-32) Superstructure:	6
(I-42) Substructure:	6
(I-50) Culvert:	N
(I-54) Channel:	8
(I-60) Approaches:	6
(I-66) General Appraisal:	6
(I-66) Operational Status:	A
Inspection Date:	10/16/2014
(94) Desig Insp Freq	12 Months

(I-69) Survey Items

Railings:	MEETS ACCEPTABLE STANDARDS
Transitions:	DOES NOT MEET ACCEPTABLE STANDA
Guardrail:	DOES NOT MEET ACCEPTABLE STANDA
Rail Ends:	DOES NOT MEET ACCEPTABLE STANDA
In Depth:	
Fracture Critical:	
Scour Critical	
Critical Findings:	
Insp. Update Date:	10/16/2014

Utilities

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

Special Features

(161)	Lighting:	Y
	Fencing:	N
	Glare-Screen:	N
	Splash-Guard:	N
	Catwalks:	N
	Other-Feat:	Y
(184)	Signs-On:	Y
	Signs-Under	N
(162)	Fence-Ht	0.0
(163)	Noise Barr	N

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

INV Field Bridge Marker: LUC - 01W02 - 0000 - N
INT Field Bridge Marker: TOL - 01378 - 0002 -

(95) Insp: CITY OR OTHER LOCAL AGENCY 2nd: NONE 3rd: NONE
(96) Maint: CITY OR OTHER LOCAL AGENCY 2nd: NONE 3rd: NONE
(97) Routine: CITY OR OTHER LOCAL AGENCY 2nd: NONE 3rd: NONE

PONTIS CoRe elements and Conditions States

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

(*) Percentages should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 4860004 | LUC: CO | 01W02: Route | 00002: SLM | LUC-M-77000-TOLEDO: FIPS | **DATE BUILT** 07/01/1914 - 2008

District 02 | **STEEL/GIRDER (FLOOR SYSTEM)** | **Type of Service** 1 | 56 **MAUMEE RIVER AND WATER ST** | N SD | LUC

DECK

1. Floor	Out/Out 83.5 4-STEEL GRID - FILLED	**2**	2. Wearing Surface	THCK= 2.0 1-CONCRETE (SEPARATE) - OVERLAY	3
3. Curbs, Sidewalks & Walkways	1-CONCRETE 1-CONCRETE	2	4. Median	W.S. Date = N-NO MEDIAN	1
5. Railing	9-TWIN STEEL TUBE (TST) BRIDGE RAILING	1	6. Drainage	3-SCUPPERS AND DOWNSPOUTS	1
7. Expansion Joints	2-SLIDING METAL PLATE ANGLE	3	**8. SUMMARY**	Deck Area: 103,380	6

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 245	1	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL	**1**
11. Diaphragms or Cross Frames	TOT.LGTH = 1,238	1	12. Joist/Stringers		**1**
13. Floorbeams		**1**	14. Floorbeam Connections		
15. Verticals			16. Diagonals		
17. End posts			18. Upper Chord		
19. Lower Chord			20. Gusset Plates		
21. Lateral Bracing			22. Sway Bracing		
23. Portals			24. Bearing Devices	0-OTHER C-ELASTOMERIC (LAMINATED)	2
25. Arch		**2**	26. Arch Columns or Hangers		
27. Spandrel Walls		**1**	**28. Protective Coating System (PCS)**	TYPE: 9PAINT SYSTEM IZEU DATE = 01/01/2006	2
29. Pins/Hangers/Hinges	ADT: 18,250 TRUCK: 2,500 YEAR: 2010		30. Fatigue Prone Detail (E & E')		**1**
31. Live Load Response (E or S)		S	**32. SUMMARY**		6

SUBSTRUCTURE

33. Abutments	2-CONCRETE 2-CONCRETE	**1**	34. Abutment Seats	PIERS= # OF SPANS=11	**1**
35. Piers	TYPE = 2-CONCRETE	**2**	36. Pier Seats		**1**
37. Backwalls		1	38. Wingwalls	ABUTMENT:=TIMBER PILES/DRILLED SHAFTS	1
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	8-BRIDGE FOUNDATIONS DETERMINED TO BE STAB 1	**1**
41. Slope Protection	N-NONE	1	**42. SUMMARY**	DIVE DT= 09/09/2015	6

CULVERTS

43. General			44. Alignment		
45. Shape			46. Seams		
47. Headwalls or Endwalls			48. Scour (Insp Type - 1, 2, 3)		
49. Abutments			**50. SUMMARY**		N

CHANNEL

51. Alignment		1	52. Protection	2-STONE	1
53. Hydraulic Opening		1	**54. SUMMARY**		8

APPROACHES

55. Pavement	2-BITUMINOUS	1	56. Approach Slabs		1
57. Guardrail	N-NONE		58. Relief Joint		1
59. Embankment	BRDG.WIDTH=64.0	2	**60. SUMMARY**	PCT.LEGAL= 150	6

GENERAL

61. Navigation Lights		1	62. Warning Signs	ROUTINE.RESP: 4-CITY OR OTHER LOCAL AGENCY MAINT.RESP: 4-CITY OR OTHER LOCAL AGENCY	1
63. Sign Supports	MVC ON=9999 UND=1701	1	64. Utilities	ELEC/GAS/TEL/WAT/OTH/	2
65. Vertical Clearance (1, 2-change, N)			66. **General Appraisal** & Operational Status	6	A

67. INSPECTED BY

Print First & Last Name

72,262 — PE Number

DT — Initial

Inspected Date: 10/16/2014

68. REVIEWED BY

Print First & Last Name

39,060 — PE Number

PB — Initial

Reviewed Date: 7/15/2015

1	0	0	0				

69. Survey (1, 0, N)

SUSPENSION BRIDGES 70. Main Cables		71. Suspenders	
72. Cable Bands		73. Suspender Connections	
74. Towers		75. Tower Saddles	
76. Bent Posts		77. Anchorage	
78.		79. SUMMARY	**7**
MOVABLE BRIDGES 80. Gears	1	81. Shafts	1
82. Bearings	1	83. Electric Motors	2
84. Auxiliary Engines	1	85. Center Locks	1
86. Tail Locks	2	87. Reducers	
88. Couplings		89. Wire Ropes	**1**
90. Sockets	1	91. Span Balance	1
92. Buffers		93. Brakes	
94. Transformers	1	95. Circuit Breakers	1
96. Limit Switches	1	97. Traffic Gates/Lights	1
98. Lubrication		99. General Operation	2
100.		101. SUMMARY	**7**