HistoricBridges.org - National Bridge Inventory Data Sheet

2013 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 Infor	mation										39-46-36 =	084-11-54 = -
Ohio [39]		Montgomery (County [113]	Day	ton [21000]	AT ISLAN	D PARK			39.776667	84.198333
5760437		Highway	agency	/ district 7	Ow	ner City or Munici	pal Highway A	Agency [04]	Maintenance	e responsibility	City or Municipal	Highway Agency [04]
Route #Nu	um!		HELEN	IA STREET		Toll On f	free road [3]	Fe	eatures interse	cted GREAT MI	AMI RIVER 9	
main	Concrete [1 Arch - Deck	-		Design - approach 0	Other [00]		Kilometer Year built Skew ang	1926	n = 0.0 mi Year re Structure F	econstructed 194	9	
							Historical	significance	Bridge	is eligible for the I	NRHP. [2]	
Total length	93.9 m =	= 308.1 ft	Lenç	gth of maxim	um span 29	.6 m = 97.1 ft	Deck wie	dth, out-to-ou	ıt 13.4 m = 44	.0 ft Bridge roa	dway width, curb-to-	curb 9.8 m = 32.2 ft
Inventory R	oute, Total	Horizontal Cle	arance	9.8 m = 32	2 ft	Curb or sidewalk	width - left	1.3 m = 4.3	3 ft	Curb or side	ewalk width - right	1.3 m = 4.3 ft
Deck structu	ure type		Nc	ot applicable	[N]							
Type of wea	aring surface	ce	Bit	uminous [6]								
Deck protection Not applicable (applie			(applies only	s only to structures with no deck) [N]								
Type of membrane/wearing surface Not applicable (appli				(applies only	to structures with n	no deck) [N]						
Weight Lim	nits											
5	ass, detour length Method to determine inventory rating			rating	No rating analysis	performed [5]	Inve	entory rating	32.4 metric ton	= 35.6 tons		
0.3 km = 0	V.Z	Method to	determi	ne operating	rating	No rating analysis	performed [5]	Ope	erating rating	32.4 metric ton	= 35.6 tons	
		Bridge pos	ting	Equal to or a	oove legal lo	ads [5]		Des	sign Load			

Functional Details						
Average Daily Traffic 16093 Average daily tr	uck traffi 0 % Year 1988	Future average daily traffic 22	2337 Year 2033	3		
Road classification Collector (Urban) [17]	Lanes on structure 3		Approach roadway widt	h 7.9 m = 25.9 ft		
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 2 -	way traffic [2]	Bridge median			
Parallel structure designation No parallel structure	e exists. [N]					
Type of service under bridge Waterway [5]	Lanes under structure 0	Navigation control				
Navigation vertical clearanc 0 = N/A	Navigation he	prizontal clearance 0 = N/A				
Minimum navigation vertical clearance, vertical lift brid	lge	Minimum vertical clearance	e over bridge roadway	99.99 m = 328.1 ft		
Minimum lateral underclearance reference feature Fe	eature not a highway or railroad [N]					
Minimum lateral underclearance on right $0 = N/A$		Minimum lateral underclearar	nce on left 0 = N/A			
Minimum Vertical Underclearance 0 = N/A	Minimum vertion	al underclearance reference feature	e Feature not a highway	or railroad [N]		
Appraisal ratings - underclearances N/A [N]						
Type of work to be performed	Work done by Work to be done by	y contract [1]				
Replacement of bridge or other structure because	Bridge improvement cost \$1,5	00,000 Roadway improv	rement cost \$125,0	00		
bridge roadway geometry. [31]	Length of structure improvement	99.1 m = 325.1 ft Total	project cost \$1,625	000		
	Year of improvement cost estimate	2005				
Average Daily Traffic 16093 Average daily truck traffi 0 % Year 1988 Future average daily traffic 22337 Year 2033 Road classification Collector (Urban) [17] Lanes on structure 3 Approach roadway width 7.9 m = 25.9 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]						
	Border bridge - structure number					

Inspection and Sufficiency										
Structure status Open, no res	striction [A]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]							
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]							
Condition ratings - substructure	Fair [5]	Appraisal ratings -	Basically intolerable requiring high priority of replacement [2]							
Condition ratings - deck	Satisfactory [6]	deck geometry								
Scour	Bridge foundations determined	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]								
Channel and channel protection	Banks are protected or well ver required or are in a stable con		vices such as spur dikes and embankment protection are not							
Appraisal ratings - water adequac	Better than present minimum	criteria [7]	Status evaluation Structurally deficient [1]							
Pier or abutment protection			Sufficiency rating 49.1							
Culverts Not applicable. Used i	if structure is not a culvert. [N]									
Traffic safety features - railings										
Traffic safety features - transition	Not applicabl	e or a safety feature is not required. [N]								
Traffic safety features - approach	n guardrail Not applicabl	e or a safety feature is not required. [N]								
Traffic safety features - approach	n guardrail ends Not applicabl	e or a safety feature is not required. [N]								
Inspection date June 2012 [0	0612] Designated inspe	ection frequency 12	Months							
Underwater inspection	Not needed [N]	Underwater inspect	tion date							
Fracture critical inspection	Not needed [N]	Fracture critical inspection date								
Other special inspection	Not needed [N]	Other special inspec	ction date							

Unit of Measure: English		Bridge Inventory	Information	Report Date: 02-10-2015 BM-191 Page: 1 of 2			
Structure File Number: 5760437		Inventory Bridge Number: M	IOT HELNA 00090 N	BR. Type: CONCRETE/ARCH/FILLED			
Sufficiency Rating: 047.9 SD	ROUTE CAI	RRIED "ON" THE STRUCT	URE GREAT MIAMI RIVER	9	Date of Last Inventory Update:		
District: 07	County: MONTGO	MERY (101	1) Location: AT ISLAND PAR	K	(102) Facility Carried: HELENA STREET		
(2) FIPS Code: MOT-M-21000-DAYTON		(103	(103) Route On Bridge: MUNICIPAL		04) Route Under Bridge: NON HIGHWAY TRAFFIC ON BRIDGE		
(9) Direction of Traffic: 2-WAY TRAFFIC	(10) Temporary: N	(11)	Truck Network: N	(12) Parallel: N		
		(100)) Type Serv: (On): HIGHWA	Y-PEDESTRIAN (Ur	nder): WATERWAY		
Inven	tory Route Data	(63) Main Spans Number:	3 Type:	CONCRETE/ARCH/FILI	ED		
(3) Route On/Under: ROUTE CARRIED "ON	I" THE STR Hwy Sys: MUNICIPAL STREET (I.E. VILL	Approach Spans Number:	0 Type:	NONE/NONE/NONE			
Route No: HELNA Dir: NOT APPLIC	ABLE Des: MAINLINE Pref: N	Total Spans: 3	(65) M	ax Span: 97 Ft	(66) Overall Leng: 308 Ft		
(4) Feature Intersected: GREAT MIAMI RIVE	ER 9	(70) Substructure	(71) Foundatio	n and Scour Information			
(5) County: DAY Mileage: 00090	Special Desig: N	Abut-Rear Matl: CO	NCRETE Type: GRAVIT	Y	Fnd: TIMBER PILES		
(6)Avg. Daily Traffic(ADT): 16,093	(7) ADT Year: 1988	Abut-Fwd Matl: CON	NCRETE Type: GRAVIT	Y	Fnd: TIMBER PILES		
(8) Truck Traf: 0 (14) NHS: NON-N	IHS BRG E (15) Corridor: N	Pier-Pred Matl: CON	NCRETE Type: SOLID V	VALL	Fnd: TIMBER PILES		
(16) Functional Class: URBAN - COLLECTOR	(19) Strahnt: NON-STRAHNET BRIDGES	Pier-Other Matl: NO	NE Type: NONE		Fnd: NONE (SUCH AS MOST CULVERTS)		
Interse	ected Route Data	Pier-Other Matl: NO	NE Type: NONE		Fnd: NONE (SUCH AS MOST CULVERTS)		
(22) Route On/Under:	Hwy Sys:	No of Piers Predominate:	Other:		Other:		
Route No: Dir:	Des: Pref:	(86) Stream Velocity: 007.2	2 (74) Scour: SC	OUR WITHIN LIMITS O	F FOOTING OR PILES.		
(23) Feature Intersected:		(189) Dive: N Freq: 0	Probe: Y Freq:	0	(75) Chan Prot: CONCRETE (CAST-IN-PLACE)		
(24) County: Mileage: 0000	Special Desig:	(189) Date of last Dive Ins	p: (152) Drainage	e Area: UUU Sq Mi			
(25)Avg. Daily Traffic(ADT):	(26) ADT Year:			Clearance Under the	Bridge		
(27) Truck Traf: (28) NHS: -	(29) Corridor: N	(156) Min. Horiz Under Cle	ear: NC:	0.0 Ft	Card: 0.0 Ft		
(30) Functional Class:	(36) Strahnt:	(157) Prac Max Vrt Under	Clear: 0.0	Ft			
Clearan	nce On the Bridge	(77) Min Vert Under Clear:	NC:	0.0 Ft	Card: 0.0 Ft		
(154) Min. Hriz on Bridge: NC:	0.0 Card: 32.0 Ft	(78) Min Lat Under Clear:	NC:	0.0/0.0 Ft	Card: 0.0/0.0 Ft		
(155) Prac Max Vert On Brg: 9999	9.9 Ft		Load Rating Information		(88-89) Appraisal		
(67) Min Vrt Clr On Brg: NC:	0.0 Card: 9999.9 Ft	(48) Design Load: UNKNC			(Including calculated Items)		
(80) Min Latl CIr: NC:	9999.9/9999.9 Ft Card: 9999.9/9999.9 Ft	Opr Rat Fact: 9.999 LD:			(
(81) Vrt Clr Lft: 0.0 F	-t	Inv Rat Fact: 9.999 LD:					
Structure Informatio	'n	(83) Ohio Percent of Legal	Lload: 100		(88) Waterway Adequacy: 7		
(38) Bypass Length: 02 Miles		Year of Rating: 2014		(89) Approach Alignment: 6			
(39) Latitude: 39 Deg 46 Min 36.54 Sec	Longitude: 84 Deg 11 Min 54.37 Sec	-	LUATION AND DOCUMENT		Calc Gen Appraisal: 4		
(40) Toll: ON FREE ROAD, THE STRUCTU			JLATIONS WERE DONE FC		Calc Deck Geometry: 2		
(41) Date Built: 7/1/1926	(42) Major Rehabilitation: 1/1/1949	Analysis on Bars: NOT ON			Calc Underclearance: N		
(43) No. Lanes On: 3	No. Lanes Under: 0	PE#: 57465 Omar Abu-Ha					
(44) Horiz Curve: 00D00M	(45) Skew: 0 Deg		ajai				
(49) App. Rdw Width: 26 Ft	(50) Brg. Rdw Width: 32.0 Ft	(400) Assesses by Oursedenily	NONE	Approach Informa	ltion		
(51) Deck Width: 44.0 Ft	Deck Area: 13552 Sq. Ft	(109) Approach Guardrail:			(444) Ora day 000D		
(52) Median Type: NONE/NON BARRIER/N	O JOINT	(110) Approach Pavement	C BITUMINOUS		(111) Grade: GOOD		
(53) Bridge Median: NO MEDIAN				Culvert Informat			
(54) Sidewalks:	(left) 4.6 Ft (right) 4.6 Ft		A CULVERT OR RIGID FRAI	VIE	(127) Length: 0.0 Ft		
(55) Type Curb or Sidewalks:		(129) Depth of Fill: 0.0 Ft			(130) Headwalls: NONE OR NOT APPLICABLE (NOT A CU		
(Left) Matl: CONCRETE	Type: SIDEWALK (GREATER THAN 2' IN WIDTH)			General Informat			
(Right) Matl: CONCRETE	Type: SIDEWALK (GREATER THAN 2' IN WIDTH)		APPLICABLE (CULVERTS,	IRUSSES, ARCHE	(122) Moment Plate: NO MOMENT PLATES		
(56) Flared: N	(57) Composite: N - NON_COMPOSITE	(169) Expansion Joint: NO					
(58) Railing: REINFORCED CONCRETE PA		(124) Bearing Devices: NC (126) Navigation: Control-I					
(59) Deck Drainage: INLETS WITH DRAIN F				Vert Clr: 0.0 Ft	Horiz Clear: 0.0 Ft		
(60) Deck Type: REINFORCED CONCRETE		(193) Spec Insp: N Freq: 0			Date:		
(61) Deck Protection: External: NONE OR N		(188) Fracture Critical Insp		Freq: 0	Date:		
Internal: NONE OR NOT			EE CONCRETE ARCHES		(135) Hinges: NOT APPLICABLE (STRUCTURES WITH N		
(62) Wearing Surface: BITUMINOUS (ASPH		(141) Structural Steel Mem	nb: NONE		(139) Framing: NONE OR NOT APPLICABLE		
					Railing: N		
Thickness: 3.1 in (119) Date of Wearing	Juliaue. 1/1/1901	Pay Wt: 0 pounds		Prime Loc: NONE (I.E	E. Paint: NONE OR NOT APPLICABLE		
Slope Protection: NONE		Bridge Dedicated Name:					

Unit of Measure: English Structure File Number: 576043 Sufficiency Rating: 047.9 SD	37		Bridge Inventory Information Inventory Bridge Number: MOT HELNA 00090 N ROUTE CARRIED "ON" THE STRUCTURE GREAT MIAMI RIVER 9						Report Date: 02-10-2015 BM-191 Page: 2 of 2 BR. Type: CONCRETE/ARCH/FILLED Date of Last Inventory Update:		
General Information (Continued)								Original Plans Information			
() Hist Significance: ELIGIBL				(69) NBIS: Y	(142)	Fabricator:					
() Hist Builder: OHIO STATE	E HIGHWAY DEPARTMEN	IT Hist Build Y	∕ear: 1926		(143)	Contractor:					
(69) Hist Type: CLOSED SPAN	NDREL FILLED				(144)	Ohio Original Cons	struction Project No:				
(161) Special Features (see be	elow):				() I	/licrofilm Reel:					
(105) Border Bridge State: Re	esp: %(106) SFN:				(151)	Standard Drawing:					
	Proposed Improve	ements		Programming Info	Aper	ure Cards: Orig: N	Repair: N Fabr: N				
						Information Availab	le: 0 NO PLANS OR INFORMAT		AILABLE FOR LO		
				PID Status:			(153) Repair Projects:				
(90) Length: 325.0 Ft				PID Date:	1) /	MMM	2) / 044				
(90) Bridge Cost (\$1000s): 150	00						·				
(90) Roadway Cost (\$1000s):	125										
(90) Total Project Cost (\$1000	vs): 1625	(90) Year: 1	1974								
(91) Future ADT (On Bridge): 2	22337	(92) Year o	of Future ADT: 20)33							
Inspection	Summary		(I-69) Survey I	Items			Utilities		Spec	ial Features	
(I-8) Deck:	5	Railings:	DOES NOT M	MEET ACCEPTABLE STAI	NDA (46)	Electric:	Y	(161)	Lighting:	Y	
(I-32) Superstructure:	4	Transitions:	NA/SAFETY	FEATURE NOT REQUIRE	D	Gas:	Ν		Fencing:	N	
(I-42) Substructure:	5	Guardrail:	NA/SAFETY	FEATURE NOT REQUIRE	D	Sanitary Sewer:	Ν		Glare-Screen:	N	
(I-50) Culvert:	Ν	Rail Ends:	NA/SAFETY	FEATURE NOT REQUIRE	D	Telephone:	Ν		Splash-Guard:	N	
(I-54) Channel:	8	In Depth:				TV Cable:	Ν		Catwalks:	N	
(I-60) Approaches:	4	Fracture Critical:				Water:	Ν		Other-Feat:	N	
(I-66) General Appraisal:	4	Scour Critical				Other:	Ν	(184)	Signs-On:	N	
(I-66) Operational Status:	А	Critical Findings:							Signs-Under	N	
Inspection Date:	9/18/2014	Insp. Update Date:	9/18/2014					(162)	Fence-Ht	0.0	
(94) Desig Insp Freq	12 Months							(163)	Noise Barr	N	
SFNs Replacing this retired bri	idge:	-									
SFNs That were replaced by th	his bridge:	-									
This bridge was retired and co	pied to:				INV I	ield Bridge Marker:		MOT	- HELNA - 0009 - N	1	
The bridge was copied from:					INT F	ield Bridge Marker:		00	000 -		
(95) Insp: CITY OR OTHER LC	OCAL AGENCY	2nd: NONE	3rd: NONE								
(96) Maint: CITY OR OTHER L	LOCAL AGENCY	2nd: NONE	3rd: NONE								
(97) Routine: CITY OR OTHER	R LOCAL AGENCY	2nd: NONE	3rd: NONE								
PONTIS CoRe elements and	Conditions States										
	ent Description	Tota	al Quantity Ur	nit Meas. Condition S	_	nts(*) 4 5					
		I	L	(*) Porce	ntagos sha	uld add to 100%					
					mages shu						

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

CO Route	0009 SLN	n FIPS <u>N</u>	
District 07 CONCRETE/ARCHFILLED Typ	e of	Service <u>1</u> <u>55</u> <u>GREAT MIAMI RIVER 9</u> SD	MO
DECK		TUOK 04	
1. Floor 0ut/Out 44.0 1-REINFORCED CONCRETE		2. Wearing Surface 6-BITUMINOUS (ASPHALTIC CONCRETE) -	2
3. Curbs, Sidewalks & Walkways 1-CONCRETE 1-CONCRETE	2	4. Median W.S. Date = 01/01/1981 N-NO MEDIAN	
5. Railing 1-REINFORCED CONCRETE PARAPET	2	6. Drainage 4-INLETS WITH DRAIN PIPES	1
7. Expansion Joints N-NONE		8. SUMMARY Deck Area: 13,552	5
SUPERSTRUCTURE			
9. Alignment of Members MAX.SPAN.LENGTH = 97	2	10. Beams/Girders/Slab N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE	
11. Diaphragms or Cross Frames TOT.LGTH = 308		12. Joist/Stringers	
13. Floorbeams		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 N-NONE N-NONE	
25. Arch	3	26. Arch Columns or Hangers	
27. Spandrel Walls	2	28. Protective Coating System (PCS) TYPE: NNONE OR NOT APPLICABLE DATE =	
29. Pins/Hangers/Hinges ADT: 16,093 TRUCK: 0 YEAR: 1988		30. Fatigue Prone Detail (E & E')	
31. Live Load Response (E or S)	s	32. SUMMARY	4
SUBSTRUCTURE		I	
33. Abutments 2-CONCRETE 2-CONCRETE	2	34. Abutment Seats PIERS= # OF SPANS=3	
35. Piers TYPE = 2-CONCRETE	2	36. Pier Seats	
37. Backwalls		38. Wingwalls ABUTMENT:=TIMBER PILES/TIMBER PILES	2
39. Fenders and Dolphins		40. Scour (Insp Type - 1, 2, 3) 5-SCOUR WITHIN LIMITS OF FOOTING 1	1
·		OR PILES.	<u> </u>
41. Slope Protection N-NONE		42. SUMMARY DIVE DT= N/A	5
CULVERTS 43. General		44. Alignment	<u> </u>
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 1-CONCRETE (CAST-IN-PLACE)	1
53. Hydraulic Opening	1	54. SUMMARY	8
APPROACHES			
55. Pavement 2-BITUMINOUS	2	56. Approach Slabs	1
57. Guardrail N-NONE		58. Relief Joint	
59. Embankment BRDG.WIDTH=32.0	3	60. SUMMARY PCT.LEGAL= 100	4
GENERAL			
61. Navigation Lights		62. Warning Signs ROUTINE.RESP: 4-CITY OR OTHER LOCAL AGENCY MAINT.RESP: 4-CITY OR OTHER LOCAL AGENCY	
63. Sign Supports MVC ON=9999 UND=0000		64. Utilities ELEC/	2
65. Vertical Clearance (1, 2-change, N)		66. General Appraisal & Operational Status 4	Α
67. INSPECTED BY		68. REVIEWED BY	
<u>68,177 AG</u>		<u>68,177</u> <u>AG</u>	
Print First & Last Name PE Number Initial		Print First & Last Name PE Number Initial	

69. Survey (1, 0, N)