

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]	Henry County [069]	Washington [81326]	50' E OF W SPUR OF CR 4	41-25-24.84 = 41.423567	083-56-48.09 = -83.946692
3501620	Highway agency district: 2	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 424	COUNTY ROAD 424	Toll On free road [3]	Features intersected	BAD CREEK	
Design - main 2	Masonry [8] Arch - Deck [11]	Design - approach 0	Other [00]	Kilometerpoint 3234.1 km = 2005.1 mi	Year built 1842 Year reconstructed N/A [0000]
				Skew angle 30	Structure Flared
				Historical significance Bridge is eligible for the NRHP. [2]	
Total length 18.3 m = 60.0 ft	Length of maximum span 7.6 m = 24.9 ft	Deck width, out-to-out 39.5 m = 129.6 ft	Bridge roadway width, curb-to-curb 37.8 m = 124.0 ft		
Inventory Route, Total Horizontal Clearance 99.9 m = 327.8 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 ft			
Deck structure type	Not applicable [N]				
Type of wearing surface	Bituminous [6]				
Deck protection	Not applicable (applies only to structures with no deck) [N]				
Type of membrane/wearing surface	Not applicable (applies only to structures with no deck) [N]				

Weight Limits

Bypass, detour length 0.5 km = 0.3 mi	Method to determine inventory rating	Load Factor (LF) rating reported by rati	Inventory rating	68 metric ton = 74.8 tons
	Method to determine operating rating	Load Factor (LF) rating reported by rati	Operating rating	97.2 metric ton = 106.9 tons
Bridge posting	Equal to or above legal loads [5]		Design Load	MS 18 / HS 20 [5]

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="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Superior to present desirable criteria [9]"/>
Condition ratings - substructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - deck geometry	<input type="text" value="Superior to present desirable criteria [9]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
Channel and channel protection	<input type="text" value="Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Superior to present desirable criteria [9]"/>	Status evaluation	<input type="text"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="87"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Not applicable or a safety feature is not required. [N]"/>		
Traffic safety features - transitions	<input type="text" value="Not applicable or a safety feature is not required. [N]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Not applicable or a safety feature is not required. [N]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Not applicable or a safety feature is not required. [N]"/>		
Inspection date	<input type="text" value="August 2018 [0818]"/>	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"/>

Structure File Number: 3501620

Inventory Bridge Number: HEN 00424 20100

Sufficiency Rating: 088.0 Deficiency Rating:

BAD CREEK

Bridge Status: Active

(2) District: 02	(3) County: 35-HENRY	(9) Location: 50' E Of W Spur Of Cr 4	(7) Facility Carried: County Road 424
(4) FIPS Code: None	Owner:	(208) Route On Bridge: County	(207) Route Under Bridge: Non Highway Traffic On Bridge (I.E.
(102) Direction of Traffic: 2 - 2-Way Traffic	(103) Temporary Structure:	(110) Designated National Network: Not National Network	(101) Parallel: N
		(42A) Type Serv: (On): Highway	(42B) Type Serv (Under): Waterway

INVENTORY ROUTE DATA

(5A) Route On/Under: 1 - 1: Route Carried "On" The Structure
 (5B) Hwy Sys: 4 - County Highway
 (5D) Route No: 00424 (5E) Dir: Not Applic (5C) Des: Mainline
 (6) Feature Int: Bad Creek
 (200) CL: 20100 (201) Spec Des: (209) Interstate Mile:
 (29) Avg. Daily Traffic(ADT): 3,596 (30) ADT Year: 2015
 (235) Truck Traf: 0 (210) Corridor: (104) NHS: structure/route is not on nhs
 (26) Functional Class: rural - major collector (100) Strahnt: Not A Strahnet Route

(45) Main Spans Number: 2 (43) Type: Masonry /Culvert (Includes Frame Culverts) /Not Applicable
 (46) Approach Spans Nbr: 0 (44) Type: Other /Other /Not Applicable
 (307) Total Spans: 2 (48) Max Span: 25.0 Ft (49) Overall Leng: 60.0 Ft

SUBSTRUCTURE

Abut-Rear (532) Matl: None (531) Type: None (533) Fnd: None (Such As Most Culverts)
 Abut-Fwd (527) Matl: None (526) Type: None (528) Fnd: None (Such As Most Culverts)
 Pier-Pred (535) Matl: None (534) Type: None (536) Fnd: None (Such As Most Culverts)
 (663) Stream Velocity: 00000 fps (113) Scour: Stable For Scour Conditions
 (92B) Underwater Inspection: N Freq: (655) Chan Prot: Rip Rap (Dumped Rock Or Rock Channel Pro
 0
 (93B) Date of last Underwater Insp: (657) Drainage Area: Sq Mi

INTERSECTED ROUTE DATA

(370A) Record Type: (370B) Hwy Sys:
 (370D) Route No: (370E) Dir: (370C) Des:
 (373) Feature Int:
 (382) CL: 0000 (371) Interstate Mile: (387) Special Desig:
 (379) Avg. Daily Traffic(ADT): 0 (380) ADT Year: 0
 (381) Truck Traf: 0 (384) Corridor: (378) NHS: -
 (375) Functional Class: (386) Strahnt:

CLEARANCE UNDER THE BRIDGE

Min. Horiz on Bridge: (335) NC: Ft (47) Card: 99.0 Ft
 (53) Prac Max Vert On Brg: 99.0 Ft
 Min Vrt Clr On Brg: (336) NC: 0.0 Ft (10) Card: 99.0 Ft
 Min Latl Clr: (338) Right NC: Ft (337) Right Card: Ft
 (340) Left NC: Ft (339) Left Card: Ft

Min. Horiz Under Clear: (326) NC: Ft (325) Card: Ft
 (328) Prac Max Vrt Under Clear: Ft
 Min Vert Under Clear: (327) NC: Ft (54) Card: 0.0 Ft
 Min Lat Under Clear: (329) Right NC: Ft (55) Right Card: 0.0 Ft
 (330) Left NC: Ft (56) Left Card: 0.0 Ft

STRUCTURE INFORMATION

(19) Bypass Length: 3.0 Miles
 (16) Latitude: 41 Deg 25 Min 24.84 Sec (17) Longitude: 83 Deg 56 Min 48.09 Sec
 (20) Toll: On Free Road
 (263) Date Built: 7/1/1842 (264) Major Reconstruction Date:
 (28A) No. Lanes On: 2 (28B) No. Lanes Under: 0
 (301) Horiz Curve: 02D00M (34) Skew: 30 Deg
 (32) App. Rdw Width: 36 Ft (51) Brg. Rdw Width: 0.0 Ft
 (52) Deck Width: 0.0 Ft (424) Deck Area: 2160 Sq. Ft
 (406) Median Type: None /Non Barrier /No Joint
 (33) Bridge Median: No Median
 Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft
 Type Curb or Sidewalk:
 (427) Left Matl: None (428) Type: None
 (429) Right Matl: None (430) Type: None
 (35) Flared: 0 (408) Composite: U - Not Applicable

LOAD RATING INFORMATION

(31) Design Load: HS 20
 (64) Opr Rat Fact/Ton: 3.000
 (66) Inv Rat Fact/Ton: 2.100
 (734) Ohio Percent of Legal Load: 100
 (704) Year of Rating: 2017 (708) Rate Soft: Combination
 (63) Opr Rat Method: Load Factor (Lf) Rating Reported By Rati
 (65) Inv Rat Method: Load Factor (Lf) Rating Reported By Rati
 Load Rater: (705) Timothy (706) Schumm (707) PE#: 62821

APPRAISAL

(71) Waterway Adequacy: 9 Superior to present desirable criteria
 (72) Approach Alignment: 9 Superior to present desirable criteria
 (67) Calc Str Appraisal: 5 - Somewhat better than minimum adequacy
 (68) Calc Deck Geometry: N - Not Applicable
 (69) Calc Underclearance: N - Not Applicable

APPROACH INFORMATION

(401) Approach Guardrail:
 (403) Approach Pavement: (402) Grade:

CULVERT INFORMATION

(575) Culvert Type: Pipe-Arch (Also Includes Stone) (578) Length: 0.0 Ft
 (580) Depth of Fill: 10.4 Ft (582) Headwalls:

GENERAL INFORMATION

(475) Main Member: Not Applicable (Culverts, Trusses, Arche) (477) Moment Plate:
 (414) Expansion Joint: None
 (453) Bearing Devices: None

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 3501620

HEN
CO

00424
Route

20100
SLM

FIPS

DATE BUILT 07/01/1842

District 2 MASONRY/CULVERT (INCLUDES

Type of Service 1 15 BAD CREEK

SD HEN

DECK

1. Floor	N-NOT APPLICABLE	Out/Out 0.0		2. Wearing Surface	6-BITUMINOUS	THCK= 7.9	N
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE			4. Median	W.S. Date = 04/20/2015 0-NO MEDIAN		
5. Railing	N-NONE			6. Drainage	N-NONE		
7. Expansion Joints	N-NONE			8. SUMMARY	Deck Area: 2,160		N

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 25			10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE)		
11. Diaphragms or Cross Frames	TOT.LGTH = 60			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				26. Arch Columns or Hangers			
27. Spandrel Walls				28. Protective Coating System (PCS)	TYPE@ NNONE OR NOT APPLICABLE		N
29. Pins/Hangers/Hinges	ADT: 3,596	TRUCK: 0	YEAR: 2015	30. Fatigue Prone Detail (E & E')			
31. Live Load Response (E or S)			S	32. SUMMARY			N

SUBSTRUCTURE

33. Abutments	N-NONE N-NONE			34. Abutment Seats	PIERS=	# OF SPANS=2	
35. Piers	TYPE = N-NONE			36. Pier Seats			
37. Backwalls				38. Wingwalls	ABUTMENT@=NONE (SUCH AS MOST CULVERTS) (SUCH AS MOST CULVERTS)	/NONE	
39. Fenders and Dolphins				40. Scour (Insp Type - 1, 2, 3)	B-STABLE FOR SCOUR CONDITIONS		7
41. Slope Protection	N-NONE			42. SUMMARY	DIVE DT= N/A		N

CULVERTS

43. General				44. Alignment			
45. Shape				46. Seams			
47. Headwalls or Endwalls				48. Scour (Insp Type - 1, 2, 3)			
49. Abutments				50. SUMMARY			5

CHANNEL

51. Alignment				52. Protection	5-RIP RAP (DUMPED ROCK OR ROCK CHANNEL PRO)		
53. Hydraulic Opening				54. SUMMARY			6

APPROACHES

55. Pavement				56. Approach Slabs			
57. Guardrail				58. Relief Joint			
59. Embankment	BRDG.WIDTH=0.0			60. SUMMARY	PCT.LEGAL= 100		

GENERAL

61. Navigation Lights				62. Warning Signs	ROUTINE.RESP@ 02-COUNTY HIGHWAY AGENCY MAINT.RESP@ 02-COUNTY HIGHWAY AGENCY		
63. Sign Supports	MVC ON=9900	UND=0000		64. Utilities			
65. Vertical Clearance (1, 2-change, N)				66. General Appraisal & Operational Status		5	A

67. INSPECTED BY

68. REVIEWED BY

Print First & Last Name

PE Number

CS
Initial

Print First & Last Name

62.821
PE Number

TS
Initial

Inspected Date: 8/31/2021

N	N	N	N				
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Reviewed Date: 7/17/2020

69. Survey (1, 0, N)



Ohio Department of Transportation Bridge Inventory Report

Sfn # : 3501620 **County :** HENRY **District:** 02
Fips Code: 81326 **Inventory Route:** 00424 **Major Maintenance Responsibility:** COUNTY HIGHWAY AGENCY
Sufficiency Rating: 088.0 **Ohio % Legal Load:** 100 **Mpo Code:** NN - NONE
Latitude: 41252484 **Longitude:** 83564809

Inventory SLM : 20100 **Bridge Material Type:** MASONRY
Bridge Struc Type: CULVERT (INCLUDES FRAME CULVERTS) **Bridge Struc Desc:** NOT APPLICABLE
Inventory Feature Intersected: BAD CREEK **Date of Major Rehab :**
Deck Width: 0 **Main Spans # :** 2
Bridge Roadway width : 0 **Deck Area :** 2160
Inventory Special Designation : **Overall Length :** 60
Structure Location : 50' E OF W SPUR OF CR 4 **SD/FO:** 0

Date Built : 07/01/1842 **Inspection Date :** 08/31/2021
General Appraisal : 5 **Inspection Responsibility :** 02 - COUNTY HIGHWAY AGENCY
Bridge Dedicated Name : **Routine maint Responsibility :** 02 - COUNTY HIGHWAY AGENCY
Operational Status : A

Intersected Route : **Intersected Feature Intersected :**
Intersected County : **Intersected Straight Line Mileage :** 0000
Intersected Special Designation : **Interstate Straight Line Mileage :** 0.0
Minimum Vertical Clr On Bridge(C) : 99 **Minimum Vertical Clr On Bridge(NC) :** 0
Minimum Vertical Clr Under Bridge(C) : 0 **Minimum Vertical Clr Under Bridge(NC) :** 0.0
Minimum Horizontal Clr On Bridge(C) : 99 **Minimum Horizontal Clr On Bridge(NC) :** 0.0
Minimum Horizontal Clr Under Bridge(C) : 0.0 **Minimum Horizontal Clr Under Bridge(NC) :** 0.0