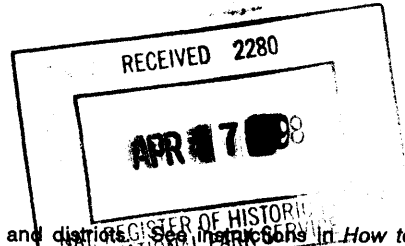


United States Department of the Interior  
National Park Service

National Register of Historic Places  
Registration Form



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This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Pine Mill Bridge

other names/site number \_\_\_\_\_

2. Location

street & number Pine Mill Bridge over Pine Creek in Wildcat Den State Park  not for publication

city or town 7.8 miles northeast of Muscatine  vicinity

state Iowa code IA county Muscatine code 139 zip code 52761

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this  nomination  request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property  meets  does not meet the National Register criteria. I recommend that this property be considered significant  nationally  statewide  locally. (  See continuation sheet for additional comments.)  
Patticia Whitcomb DSHPO 4-7-98  
Signature of certifying official/Title Date  
**STATE HISTORICAL SOCIETY OF IOWA**  
State or Federal agency and bureau

In my opinion, the property  meets  does not meet the National Register criteria. (  See continuation sheet for additional comments.)  
\_\_\_\_\_  
Signature of certifying official/Title Date  
\_\_\_\_\_  
State or Federal agency and bureau

4. National Park Service Certification

I hereby certify that the property is:

- entered in the National Register  
 See continuation sheet
- determined eligible for the National Register  
 See continuation sheet
- determined not eligible for the National Register
- removed from the National Register
- other, (explain):

Edson H. Beall 5.15.98

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**5. Classification**

**Ownership of Property**  
(Check as many boxes as apply)

- private
- public-local
- public-State
- public-Federal

**Category of Property**  
(Check only one box)

- building(s)
- district
- site
- structure
- object

**Number of Resources within Property**  
(Do not include previously listed resources in the count)

Contributing	Noncontributing	
0	0	buildings
0	0	sites
1	0	structures
0	0	objects
1	0	Total

**Name of related multiple property listing**  
(Enter "N/A" if property is not part of a multiple property listing)

Highway Bridges of Iowa

**Number of contributing resources previously listed in the National Register**

0

**6. Function or Use**

**Historic Functions**  
(Enter categories from instructions)

TRANSPORTATION/road-related

**Current Functions**  
(Enter categories from instructions)

TRANSPORTATION/pedestrian-related

**7. Description**

**Architectural Classification**  
(Enter categories from instructions)

other: pinned Pratt through truss

**Materials**  
(Enter categories from instructions)

foundation STONE MASONRY

walls \_\_\_\_\_

roof \_\_\_\_\_

other Wrought Iron

**Narrative Description**

(Describe the historic and current condition of the property on one or more continuation sheets)

Located 7.8 miles northeast of Muscatine, the Pine Mill Bridge spans Pine Creek in a rural Muscatine County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 1	construction date: 1878
span length: 96.0'	construction cost: unknown
total length: 96.0'	current condition: fair
roadway wdt.: 16.0'	alterations: bridge closed

superstructure: wrought iron, 7-panel, pin-connected Pratt through truss  
 substructure: stone masonry abutments  
 floor/decking: timber deck over timber stringers  
 other features: upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped square eyebars; vertical: 2 Ts with continuous plate (2 star irons at the hip); diagonal: 2 looped square eyebars; lateral bracing: round eyebar with turnbuckle; strut: 4 angles with lacing; floor beam: tapered "fishtail" plate girder, U-bolted to lower chord pins; guardrail: timber; partial portal plate: [Wrought Iron Bridge] Co. Canton O.

Other than maintenance-related repairs, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Pine Mill Bridge today retains a high degree of integrity of location, design, setting, materials, workmanship, feeling and association.

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

- A Property is associated with events that have made a significant contribution to the broad patterns of our history.
B Property is associated with the lives of persons significant in our past.
C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
D Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations

(Mark "x" in all the boxes that apply)

Property is:

- A owned by a religious institution or used for religious purposes.
B removed from its original location.
C a birthplace or grave.
D a cemetery.
E a reconstructed building, object, or structure.
F a commemorative property.
G less than 50 years of age or achieved significance within the past 50 years.

Narrative Statement of Significance

(Explain the significance of the property on continuation sheets.)

Areas of Significance

(Enter categories from instructions)

ENGINEERING

Period of Significance

1878

(The period of significance is derived from the original construction date.)

Significant Dates

1878 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

designer:

Wrought Iron Bridge Company, Canton, OH

fabricator:

Wrought Iron Bridge Company, Canton, OH

builder:

Wrought Iron Bridge Company, Canton, OH

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
previously listed in the National Register
previously determined eligible by the National Register
designated a National Historic Landmark
recorded by Historic American Buildings Survey
recorded by Historic American Engineering Record

Primary location of additional data:

- State Historic Preservation Office
other State agency
Federal agency
Local government
University
other
name of repository:

10. Geographical Data

Acreage of Property less than one acre

UTM References

(Place additional UTM references on a continuation sheet)

1 15 676820 4593620 2 zone easting northing zone easting northing

Verbal Boundary Description

(Describe the boundaries of the property)

The nominated property is a rectangular-shaped parcel measuring 18 feet by 96 feet, which is centered on the UTM point(s) listed above. Included within this rectangular parcel are the bridge's superstructure, substructure, approach spans and floor system.

Boundary Justification

(Explain why the boundaries were selected)

The nominated structure includes the bridge's superstructure, substructure, floor system, any approach spans and the property on which they rest. These boundaries encompass, but do not exceed, all of the property that has been historically associated with the bridge.

11. Form Prepared By

name/title Clayton B. Fraser organization Fraserdesign date 31 August 1994 street & number 1269 Cleveland Avenue telephone 303-669-7969 city or town Loveland state Colorado zip code 80537

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

- A USGS map (7 1/2 or 15 minute series) indicating the property's location
A Sketch map for historic districts and properties having large acreage or numerous resources

Photographs

Representative black and white photographs of the property

Additional Items

(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of SHPO or FPO)

name/title street & number telephone city or town state zip code

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Section Number 8 Page 1 **Pine Mill Bridge** Muscatine County; Iowa

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In June 1877 the Muscatine County Board of Supervisors received a petition from citizens in Montpelier Township requesting a permanent bridge over Pine Creek at the Pine Creek Mill. The supervisors were in favor of building the bridge, "as soon as the finances of the county will permit." But the finances would not allow the construction that year they concluded. The petitioners approached the board again in January 1878, but again the supervisors delayed action on the proposed bridge, this time until that June. In June the county surveyor was instructed to visit the site, take measurements and prepare cost estimates. By July the county signalled that it was finally ready to build the bridge by hiring a contractor to construct the stone abutments. In August the auditor solicited petitions from the various bridge companies; in September a contract to fabricate and erect the truss was issued to the Wrought Iron Bridge Company of Canton, Ohio. The Pine Mill Bridge was completed by the end of the year. Configured as a pinned Pratt through truss, it has functioned in place since, in essentially unaltered condition. The bridge has been closed to vehicular traffic, and today it is open for interpretation in the Wildcat Den State Park.

From the early 1880s until the establishment of state bridge standards in 1913, the pin-connected Pratt through truss was virtually the exclusive structural type for medium-span roadway crossings in Iowa. Its standardized fabrication, economy of materials and ease of erection made it a mainstay among the various state and regional bridge companies. Thousands of such trusses were built throughout the state during this period, and numerous examples remain in use today. The Pine Mill Bridge is distinguished among these for its relatively early construction date and high degree of structural integrity. Located in a pristine setting next to the restored Pine Mill, it is one of the state's most picturesque wagon bridges.

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Section Number   9   Page   2   Pine Mill Bridge Muscatine County; Iowa

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Muscatine County Board of Supervisors' Minutes, Book C: page 92 (7 June 1877), page 99 (8 September 1877), page 120 (9 January 1878), page 132 (5 April 1878), page 139 (6 June 1878), page 140 (8 July 1878), page 141 (10 August 1878), page 144 (3 September 1878), page 171 (1 January 1879), located at the Muscatine County Courthouse, Muscatine IA.

Field inspection by Clayton Fraser, 13 December 1989.