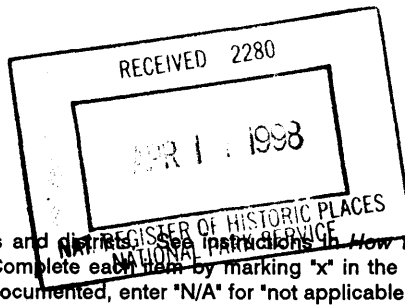


United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form



494

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions. 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 Nodaway River Bridge

other names/site number _____

2. Location

street & number pedestrian path in Pilot Grove County Park not for publication

city or town 3.0 miles west of Grant vicinity

state Iowa code IA county Montgomery code 137 zip code 50847

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.)

Patricia Anterking DSHPO
Signature of certifying official/Title

4-7-98
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):

E 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: Bowstring pony arch-truss

Materials
(Enter categories from instructions)

foundation Timber pile
 walls _____
 roof _____
 other Steel

Narrative Description

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

The Nodaway River Bridge spans a small pond in the Pilot Grove County Park west of Grant. A description of the structure follows:

span number: 1 construction date: 1876
 span length: 70.0' construction cost: \$1000.00 (contract amount)
 total length: 70.0' current condition: good
 roadway wdt.: 14.0' alterations: truss moved, 1968

superstructure: steel, 8-panel, bolted Bowstring pony arch-truss
 substructure: timber pile bent abutments
 floor/decking: timber deck over timber stringers
 other features: upper chord: 2 channels with cover plate and double lacing; lower chord: 2 rectangular eyebars, spliced; vertical: star iron; diagonal: round rod with threaded ends; lateral bracing: round rod with threaded ends; floor beam: I-beam, U-bolted to vertical; guard-rail: wire mesh; outrider: star iron; builder's plate: MISSOURI VALLEY / 1876 / BRIDGE CO. / LEAVENWORTH KAS.

Other than its move and subsequent maintenance-related repairs, the bridge remains essentially unaltered. The Nodaway River Bridge today retains a high degree of integrity of design, materials, workmanship 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.

Areas of Significance

(Enter categories from instructions)

Engineering

Period of Significance

1876

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

Significant Dates

1876 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Bullder

designer:

Missouri Valley Bridge and Iron Company

fabricator:

Missouri Valley Bridge and Iron Company

builder:

Missouri Valley Bridge and Iron Company

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.)

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 DataAcreage of Property less than one acre**UTM References**

(Place additional UTM references on a continuation sheet)

1 15 328640 4556960
zone easting northing2 _____
zone easting northing**Verbal Boundary Description**

(Describe the boundaries of the property)

The nominated property is a rectangular-shaped parcel measuring 16 feet by 70 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 Byname/title Clayton B. Fraserorganization Fraserdesign date 31 August 1994street & number 1269 Cleveland Avenue telephone 303-669-7969city or town Loveland state Colorado zip code 80537**Additional Documentation**

Submit the following items with the completed form:

Continuation Sheets**Maps**A **USGS map** (7½ or 15 minute series) indicating the property's locationA **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 Montgomery Countystreet & number P.O. Box 95 telephone 712-623-5197city or town Red Oak state Iowa zip code 51566

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 **Nodaway River Bridge** Montgomery County; Iowa

In January 1876 the Montgomery County Board of Supervisors received a petition from S.M. Smith and others for a new bridge over the Nodaway River south of Grant. The board at first laid the petition aside, but reconsidered it later that year. In June the board ordered the construction of a 70-foot iron span at this point, along with a 100-foot iron span over the Nishnabotna River and another bridge across Seven Mile Creek. A month later the supervisors awarded contracts for the Nishnabotna and Nodaway river bridges, the former to the Canton Bridge Company for \$1975.00, the latter to the Missouri Valley Bridge and Iron Works for \$1000.00. The Leavenworth, Kansas, firm fabricated a Bowstring arch-truss and erected it that year. With its laced channel upper chords, iron bar lower chords and star iron verticals and outriders, the Nodaway River Bridge typified Missouri Valley standard bridge design of the period. The small-scale structure carried vehicular traffic until it was moved to Pilot Grove County Park around 1968. It now carries pedestrian traffic over the arm of a small pond.

The bowstring arch-truss was the iron span of choice for Iowa counties in the late 1860s and 1870s. Marketed extensively by such industry giants as the Wrought Iron Bridge Company and King Iron Bridge and Manufacturing Company of Ohio, and the Missouri Valley Bridge and Iron Company of Kansas, these often-patented bridge forms featured a wide range of span lengths, economical fabrication cost and relatively quick erection. The proliferation of the bowstring corresponded with the initial development of Iowa's road system, and as a result, perhaps thousands of these prototypical iron spans were erected throughout the state. The bowstring design had some rather severe structural flaws, however, and it was superseded by the pin-connected truss in the early 1880s. Through subsequent attrition, almost all of Iowa's bowstrings have since been replaced and demolished. Now less than 20 remain in place, many moved to park settings like the Montgomery County bridge. Although it no longer functions as designed in its original location, the Nodaway River Bridge is a historically and technologically significant resource in the interpretation of early Iowa transportation development.

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

**National Register of Historic Places
Continuation Sheet**

Section Number 9 Page 2 Nodaway River Bridge Montgomery County; Iowa

Montgomery County Supervisors' Minute Book 2, page 313 (10 January 1876), pages 330-31 (8 June 1876) and pages 338-39 (14 July 1876), located at Montgomery County Courthouse, Red Oak IA.

Field inspection by Clayton Fraser and Sheila Bricher-Wade, 20 March 1990.