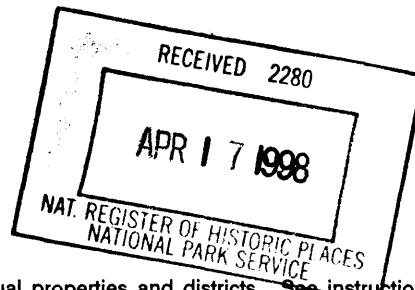


**United States Department of the Interior
National Park Service**

**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 Grand River Bridge

other names/site number _____

2. Location

street & number 230th Street over Grand River not for publication

city or town 9.1 miles east of Arispe vicinity

state Iowa code IA county Union code 175 zip code 50831

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 Ostermy 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 A. 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/road-related

7. Description

Architectural Classification
(Enter categories from instructions)

other: pinned Pratt through truss

Materials
(Enter categories from instructions)

foundation Concrete filled iron

walls

roof

other wrought iron

Narrative Description

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

Located east of Arispe, the Grand River Bridge spans the Grand River in a rural setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 1 construction date: 1885
 span length: 90.0' construction cost: unknown
 total length: 156.0' current condition: fair
 roadway wdt.: 15.8' alterations: none

superstructure: wrought iron, 5-panel, pin-connected Pratt through truss with timber stringer approaches
 substructure: concrete-filled iron cylinder piers at truss; timber pile bent abutments and approach span pier
 floor/decking: timber deck over timber stringers
 other features: upper chord / inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing (2 square eyebars at hip); diagonal: 2 punched rectangular eyebars; counter: 1 round eyerod with unslotted turnbuckle; lateral bracing: round rod with threaded ends; strut: 2 Ts with lacing; floor beam: 2 channels with jack truss; guardrail: steel lattice, 2 angles at approach span; portal builder's plate: 1885 King Iron Bridge Co. Cleveland, O.

Other than maintenance-related repairs, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Grand River 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.

Areas of Significance

(Enter categories from instructions)

ENGINEERING

Period of Significance

1885
(The period of significance is derived from the original construction date.)

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.

Significant Dates

1885 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Bullder

designer: King Iron Bridge Company, Cleveland OH

fabricator: King Iron Bridge Co.; Phoenix Iron Co.

builder: King Iron Bridge Company, Cleveland OH

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 documentatlon 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	<u>15</u>	<u>412570</u>	<u>4534980</u>	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 156 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	<u>Clayton B. Fraser</u>		
organization	<u>Fraserdesign</u>	date	<u>31 August 1994</u>
street & number	<u>1269 Cleveland Avenue</u>	telephone	<u>303-669-7969</u>
city or town	<u>Loveland</u>	state	<u>Colorado</u> zip code <u>80537</u>

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	<u>Union County</u>		
street & number	<u>Route 2, Box 52</u>	telephone	<u>515-782-7417</u>
city or town	<u>Creton</u>	state	<u>Iowa</u> zip code <u>50801</u>

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 Grand River Bridge Union County; Iowa

Located over the Grand River some nine miles east of Arispe, this bridge consists of a single pin-connected Pratt through truss, approached on both sides by timber stringer spans. Early Union County records have been destroyed in a courthouse fire, making primary source research on the bridge impossible. A builder's plate on the truss itself indicates that it was built in 1885 by the King Iron Bridge and Manufacturing Company of Cleveland. The Grand River Bridge has carried county-road traffic to the present, with the replacement of its timber components as its only alteration of note.

With virtually all of the in-state and national bridge companies promoting it, the pin-connected Pratt through truss was the steel bridge of choice for medium-scale crossings in Iowa in the late 19th century. Thousands of such spans were erected on the state's road system during this period of intense bridge construction activity, and today they remain the most populous structural type remaining from the 19th century. With its original superstructure and substructure intact, the Grand River Bridge is distinguished as a well-preserved example of this statewide bridge building trend.

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

**National Register of Historic Places
Continuation Sheet**

Section Number 9 Page 2 Grand River Bridge Union County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure No. 324480.

Field inspection by Clayton Fraser, 16 March 1991.