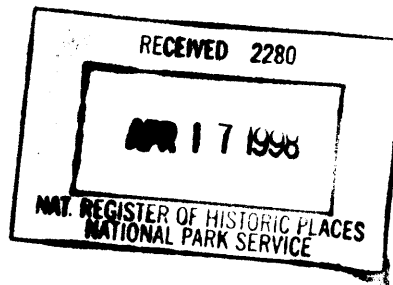


United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form



522

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 Des Moines River Bridge

other names/site number _____

2. Location

street & number State Hwy 3 over West Fork of Des Moines River not for publication

city or town 2.1 miles west of Humboldt vicinity

state Iowa code IA county Humboldt code 091 zip code 50548

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 Churking DS/PP 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)

Table with 2 columns: Contributing, Noncontributing and rows for buildings, sites, structures, objects, 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: steel plate deck girder

Materials

(Enter categories from instructions)

foundation Concrete

walls

roof

other Steel

Narrative Description

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

Located 2.1 miles west of Humboldt, the Des Moines River Bridge spans West Fork of the Des Moines River in a rural Humboldt County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 4 construction date: 1939
span length: 140.0' construction cost: \$59,761.00
total length: 400.0' current condition: good
roadway wdt.: 23.9' alterations: none

superstructure: steel plate deck girder with curved haunches
substructure: concrete abutments, wingwalls and piers
floor/decking: concrete deck
other features: ISHC standard concrete post-and-rail guardrails

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

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

1939

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

Significant Dates

1939 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

designer:

Iowa State Highway Commission

fabricator:

unknown

builder:

E.A. Kramme Company, Inc.

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 396990 4731600
zone easting northing2 15 397110 4731600
zone easting northing**Verbal Boundary Description**

(Describe the boundaries of the property)

The nominated property is a rectangular-shaped parcel measuring 26 feet by 400 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 Danielle Johnson and Clayton 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 Iowa Department of Transportationstreet & number 800 Lincoln Way telephone 515-239-1251city or town Ames state Iowa zip code 50010

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 Des Moines River Bridge Humboldt County; Iowa

Located on State Highway 3, just west of Humboldt, this long-span steel beam bridge spans the West Fork of the Des Moines River. The structure consists of two 140-foot, variable depth plate girders, with two shorter plate girder approach spans, all supported on a 33-degree skew by a concrete substructure. The Des Moines River Bridge was designed in the spring of 1939 by engineers of the Iowa State Highway Commission. Designated Federal Aid Project 730C, the contract for the bridge's construction was let to the E.A. Kramme Company, Inc. Kramme completed the bridge that year for a total cost of almost \$60,000.00. Since that time the bridge has carried vehicular traffic, in unaltered condition.

In the 1930s the state highway commission began using variable depth plate girders for its long-span beam bridges. These typically employed straight girders with arched or curved haunches at the abutments and piers to help withstand the increased sheer forces at the bearing points. The girders were rigidly joined to form a continuous-span structure. ISHC built several such beam bridges with spans in excess of 100 feet in the 1930s and 1940s. With a span length of 140 feet, the Des Moines River Bridge in Humboldt County represents the longest example of steel beam bridge design identified by the historic bridge inventory. It is thus distinguished as the ultimate extension of this relatively common structural type.

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

**National Register of Historic Places
Continuation Sheet**

Section Number 9 Page 2 Des Moines River Bridge Humboldt County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure No. 028980.

Primary System Bridge Files, located at IDOT, Ames IA.