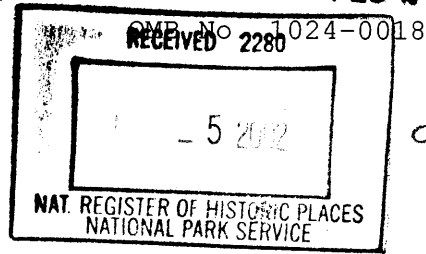


FEB 26 2002

NPS Form 10-900
(Rev. 10-90)



United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM

OK

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 any 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 Adel Bridge

other names/site number FHWA #131670

2. Location

street & number River St. (Old Waukee Road) (288th Trail) N/A not for publication

city or town Adel N/A vicinity _____
state IA code IA county Dallas code 049 zip code 50003

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this X 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 X meets _____ does not meet the National Register Criteria. I recommend that this property be considered significant _____ nationally _____ statewide X locally. (_____ See continuation sheet for additional comments.)

Rowell G. Locke

February 26, 2002

Signature of certifying official

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 commenting or other official

Date

State or Federal agency and bureau

Name of Property Adel Bridge

Dallas County, Iowa

4. National Park Service Certification

I, hereby certify that this 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. Ball 4/18/02

Jan

Signature of Keeper

Date of Action

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

Contributing	Noncontributing
_____	_____ buildings
_____	_____ sites
<u>1</u>	_____ structures
_____	_____ objects
_____	_____ Total

Number of contributing resources previously listed in the National Register 0

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.) Highway Bridges of Iowa MPS

Name of Property Adel Bridge

Dallas County, Iowa

6. Function or Use

Historic Functions (Enter categories from instructions)

Cat: TRANSPORTATION Sub: road-related

Current Functions (Enter categories from instructions)

Cat: TRANSPORTATION Sub: road-related

7. Description

Architectural Classification (Enter categories from instructions)

OTHER: pin-connected Pratt through truss

Materials (Enter categories from instructions)

foundation Concrete
roof _____
walls _____
other METAL/iron

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

Name of Property Adel Bridge

Dallas County, Iowa

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, 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.)

- A owned by a religious institution or used for religious purposes.
- B removed from its original location.
- C a birthplace or a 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.

Areas of Significance (Enter categories from instructions)

ENGINEERING

Period of Significance 1882

Significant Dates 1882

Significant Person (Complete if Criterion B is marked above)

Cultural Affiliation N/A

Architect/Builder King Iron Bridge and Manufacturing Company

Narrative Statement of Significance (Explain the significance of the property on one or more continuation sheets.)

Name of Property Adel Bridge

Dallas County, Iowa

9. Major Bibliographical References

(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

UTM References (Place additional UTM references on a continuation sheet)

	Zone	Easting	Northing	Zone	Easting	Northing
1	<u>15</u>	<u>415680</u>	<u>4607410</u>	3	_____	_____
2	_____	_____	_____	4	_____	_____

_____ See continuation sheet.

Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.)

Boundary Justification (Explain why the boundaries were selected on a continuation sheet.)

Name of Property Adel Bridge Dallas County, Iowa

11. Form Prepared By

name/title Elizabeth Foster (based on report by Claton Fraser)

organization State Historical Society of Iowa date 9/4/2001

street & number 600 E. Locust Street telephone 515/281-4137

city or town Des Moines state IA zip code 50309

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

- A USGS map (7.5 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 the SHPO or FPO.)

name Dallas County Board of Supervisors

street & number 801 Court Street telephone 515 993 5806

city or town Adel state IA zip code 50003

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 the 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 Project (1024-0018), Washington, DC 20503.

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 7 Page 1

Adel Bridge
name of property
Dallas County, Iowa
county and State

=====

Narrative Statement

Located on the North Raccoon River, the Adel Bridge sits on the site of one of the county's earliest river crossings. A description of the structure follows:

Span number:	2	Construction date:	1882
Span length:	148.0'	Construction cost:	12,500.00
Total length:	400.0'	Current condition:	Fair
Roadway wdt:	15.9'	Alterations:	East approach spans replaced; one pier replaced

Superstructure: wrought iron, 9-panel, pin-connected Pratt through truss
Substructure: concrete-filled iron cylinder piers with (replacement) concrete pier; concrete abutments and wingwalls; timber pile bent abutments at east approach spans
Floor/decking: timber deck over timber stringers
Other features: upper chord/inclined end post: 2 channels with batten and cover plates; lower chord: rectangular eye bars; counter: 2 looped round eyerods with turnbuckles; lateral bracing: looped round eyebar with turnbuckle; strut: 2 channels with lacing; floor beam: 2 channels clamped to lower chord; guardrail: steel cable; portal builder's plate: **1882 BUILT BY KING IRON BRIDGE CO. CLEVELAND O**

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 8 Page 2

Adel Bridge
Name of property
Dallas County, Iowa
County and State

=====

Statement of Significance

The Adel Bridge is significant as an excellent, early example of a mainstay structural type in Iowa, the pin-connected Pratt through truss. The bridge is a well-preserved, early remnant of early wagon truss construction, located at a regionally important crossing of a major river in Adel, the Dallas County seat.

A ferry was first established at the eastern outskirts of Adel in March 1850, three years after the town's platting, to provide safe passage across the North Raccoon River during periods of high water. The county later contracted with local bridge builder Johnathan Peppard to construct a timber structure at this point that would carry the Waukee Road. However, this early span had deteriorated to the point of replacement by the early 1880s. In June 1882 the Dallas County Board of Supervisors received a citizens' petition for a replacement bridge. The board studied the request, solicited competitive proposals from several bridge companies, and in September awarded a contract to fabricate and erect a two-span wrought iron truss to the King Iron Bridge and Manufacturing Company for \$12,500.00. The Cleveland, Ohio, firm used wrought iron components rolled by the Carnegie mills in Pittsburgh to fabricate these medium-span Pratt through trusses, using a King standard Pratt configuration. The company erected the trusses on steel cylinder piers later that year. The Adel Bridge has carried vehicular traffic since.

The original ferry crossing did not align with Prairie or Fifth Street; the original main east-west street in Adel but jogged a half block south, and then east. Due to the construction of a new Highway 6 bridge in 1932, which avoided this inconvenience, the bridge was relegated to secondary road status at that time. In November of 2000 the bridge was closed to vehicular traffic. The trusses and two of the three cylinder piers remain intact, but the approach spans on the bridge's east end and one of the piers have subsequently been replaced.

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 place today.

The Adel Bridge is noteworthy as among the oldest remaining Pratt trusses in Iowa. It is also important for its two-span configuration. Although many multiple-span trusses were erected in Iowa in the late 19th century almost all have subsequently been demolished.

The property meets the national Register registration requirements set forth in the Highway Bridges of Iowa Multiple Property Document.

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 9 & 10 Page 3

Adel Bridge
Name of property
Dallas County, Iowa
County and State

Bibliography

Field inspection by Clayton Fraser and Sheila Bricher-Wade, 12 March 1991

Iowa Department of Transportation, Structure Inventory and Appraisal; Structure Number 131670

Dallas County Supervisors' Minute Book D, 7 June 1882, 9 June 1882, Located at Dallas County courthouse, Adel IA

The History of Dallas County, Iowa (Des Moines: Union Historical Company, 1879), pages 377-78

James Jacobsen, "Adel Wagon bridge," National Register nomination
R.F. Wood, **Past and Present of Dallas County** (Chicago: S.J. Clarke Publishing Company, 1907), pages 148-49

Eugene N. Hastie, **Hastie's History of Dallas County, Iowa**, pages 380-81
"Adel Opens Bridge Link," **Des Moines Tribune**, 25 May 1932

Geographical Data

Verbal Boundary Description

Located in Sec29, T79N,R27W, the nominated property is a rectangular-shaped parcel measuring 18 feet by 400 feet. Included within this rectangular parcel are the bridge's superstructure, substructure, approach spans and floor system.

Boundary Justification

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.

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section Photos Page 4

Adel Bridge
Name of property
Dallas County, Iowa
County and State

The following information is common to all photographs:

1. Adel Bridge
2. Dallas County, Iowa
3. Dale Hutzell, 2826 Prospect Avenue, Adel, IA 5000
4. August 2001
5. Dale Hutzell
6. Views:
 1. camera facing North Northeast
 2. camera facing East
 3. camera facing West
 4. camera facing West
 5. camera facing West

United States Department of the Interior
National Park Service

National Register of Historic Places Continuation Sheet

Section number Add'l Page 5

Adel Bridge
Dallas County, Iowa

Adel Bridge and New Bridge Alignment
Des Moines Register, December 13, 2000

