

NPS Form 10-900
(Rev. 8-86)

OMB No. 1024-0018

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United States Department of the Interior
National Park Service

OCT 25 1993

NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM

NATIONAL
REGISTER

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1. Name of Property

=====

historic name: N/A

other name/site number: South Dakota Dept. of Trans. Br. No. 56-090-096

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2. Location

=====

street & number: Local road over Sand Creek

not for publication:

city/town: Forestburg

vicinity: X

state: SD county: Sanborn

code: 111 zip code: 57338

=====

3. Classification

=====

Ownership of Property: public-local

Category of Property: structure

Number of Resources within Property:

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

Number of contributing resources previously listed in the National Register: 0

Name of related multiple property listing: Historic Bridges in South Dakota

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, 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. See continuation sheet.

Signature of certifying official

Date

10/12/92

State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of commenting or other official

Date

State or Federal agency and bureau

5. 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):

LM Clelland 12/9/93

Signature of Keeper

Date of Action

=====
6. Function or Use
=====

Historic: Transportation Sub: road-related (vehicular)

Current : Transportation Sub: road-related (vehicular)

=====
7. Description
=====

Architectural Classification:

Other

Other Description: Warren pony truss

Materials: foundation concrete roof _____
walls _____ other metal: steel

Describe present and historic physical appearance. _X_ See continuation sheet.

=====
8. Statement of Significance
=====

Certifying official has considered the significance of this property in relation to other properties: _____.

Applicable National Register Criteria: A & C

Criteria Considerations (Exceptions) : _____

Areas of Significance: Commerce
Engineering

Period(s) of Significance: 1912 -1943

Significant Dates : 1912 _____

Significant Person(s): N/A

Cultural Affiliation: N/A

Architect/Builder: Iowa Bridge Company

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.
X See continuation sheet.

=====
9. Major Bibliographical References
=====

X See continuation sheet.

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 -- Specify Repository: South Dakota Department of Transportation

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 10. Geographical Data
 =====

Acreeage of Property: less than 1 acre

UTM References: Zone Easting Northing Zone Easting Northing

A	<u>14</u>	<u>568020</u>	<u>4878780</u>	B	___	_____	_____
C	___	_____	_____	D	___	_____	_____

___ See continuation sheet.

Verbal Boundary Description: ___ See continuation sheet.

The nominated property consists of a rectangle, 21 feet wide by 69 feet long, whose vertices coincide with the outside corners of the bridge abutments at each end of the bridge, and includes only the bridge superstructure and substructure.

Boundary Justification: ___ See continuation sheet.

Because the bridge is located on a public road, there are no legal boundary lines for the ends of the bridge. Therefore, these boundaries are drawn to encompass only the superstructure and substructure of the bridge itself.

=====
 11. Form Prepared By
 =====

Name/Title: Jennifer Traeger/Historian and Dale Martin/Historian

Organization: Renewable Technologies, Inc.

Date: August 1990/9-93

Street & Number: 510 Metals Bank Bldg.

Telephone: (406)782-0494

City or Town: Butte

State: MT ZIP: 59701

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 7 Bridge No. 56-090-096 Page 6
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Bridge no. 56-090-096 is located about six miles east of Woonsocket and carries a local road over Sand Creek. The single-span, 64-foot, steel, Warren pony truss bridge has some riveted connections but most of its connections are bolted. The bridge rests on concrete abutments with wing walls. The superstructure is composed as follows: the upper chord consists of two channel sections riveted with a continuous steel plate along the upper flanges and with batten plates along the lower flanges; the lower chords and diagonal members consist of paired angle sections riveted with batten plates; and the verticals members consist of two pairs of angle sections riveted with batten plates. The bridge deck has a corrugated metal floor with a gravel wearing surface and sits on steel I-beam stringers which have channel section bridging. The stringers rest on the top flanges of the steel I-beam floor beams which are bolted to gusset plates at the panel points along the lower chord. Round rod cross-braces provide bottom lateral bracing while two angle sections form the railing along each side of the bridge.

The bridge retains excellent integrity.

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 8

Bridge No. 56-090-096

Page 7

Bridge no. 56-090-096 is being nominated to the National Register of Historic Places as part of the "Historic Bridges in South Dakota" Multiple Property Nomination. It is related to the historic context of "Historic Bridges in South Dakota, 1893-1943" and is classified with the associated property type for iron and steel frame bridges. This bridge is individually eligible for the National Register under Criterion A for its association with a long-term bridge builder in Sanborn County, the Iowa Bridge Company. It is also eligible under Criterion C; among those surviving bridges in the county which were built by the Iowa Bridge Company, this bridge has the greatest length.

Around the turn of the 20th century, the homesteading boom west of the Missouri River coupled with the expanded agri-business east of the river led to an increased demand for reliable bridges in South Dakota. Accompanying the increase in bridge construction was the emergence of a pattern of business wherein almost every county in the state seemed to be dominated by a different bridge builder. This pattern began to be evident in the late-19th century. It grew even stronger after the turn of the century when the counties began turning to the system of awarding annual contracts for bridge work. Most typically, the counties awarded annual contracts to the same firm year after year. This relationship between the counties and the bridge firms was probably due to "pooling," an illegal but common practice across the country at this time. Under pooling arrangements, various bridge-building firms agreed to divide states among themselves, assigning particular counties to specific firms. Most such firms operating in South Dakota at this time were based out-of-state. This pattern of business remained strong in South Dakota until about 1920 when the State Highway Commission strengthened its control over bridge construction practices in the counties.

The activities of the Iowa Bridge Company of Des Moines are typical of the bridge-building business in South Dakota during this era. The President of the company was James S. Carpenter, who had been a travelling agent for the N.M. Stark Company of Des Moines in the 1890s. Carpenter started the Iowa Bridge Company in Des Moines in about 1902 and was immediately successful in obtaining annual bridge contracts in South Dakota counties such as Bon Homme, Brookings, and Sanborn where his former employer had been active. During the first two decades of the 20th century, the company became the most active bridge-builder to operate in South Dakota and dominated bridge contracts in at least 11 counties. It held the annual contract in Sanborn County from 1902 through at least 1912. (continued)

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 8 & 9 Bridge No. 56-090-096 Page 8
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8. Significance (continued)

Among the four bridges surveyed that were built in Sanborn County by the Iowa Bridge Co., this riveted Warren pony truss has the greatest length. The Warren truss became popular for steel bridges in the early 20th century, after the riveted connection replaced the pin-connection as standard practice. From about 1910 until the early 1920s, the riveted Warren pony truss replaced the Pratt pony truss as the most commonly used metal-truss type in South Dakota for short bridges.

9. Bibliography

Bridge Plaque

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Section number 3 Page 1

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: see below Date Listed: 12/09/93

Property Name: see below

County: see below State: South Dakota

Historic Bridges in South Dakota MPS
Multiple Name

The following properties are listed in the National Register of
Historic Places in accordance with the attached nomination
documentation subject to the following exceptions, exclusions, or
amendments, notwithstanding the National Park Service
certification included in the nomination documentation.



Signature of the Keeper

December 9, 1993
Date of Action

Amended Items in Nomination:

Section 3/8. State Certification/Statement of Significance.
Certifying official has considered the significance of the
following properties to be of state significance.

Reference No.	Property	County
93001295	Capa Bridge	Jones County
93001287	Chilson Bridge	Fall River County
93001308	Eighth Street Bridge	Minnehaha County
93001298	Esmond Bridge	Kingsbury County
93001317	Hall Bridge	Spink County
93001274	Hay Creek Bridge	Butte County
93001264	Kemp Avenue Bridge	Codington County
93001266	Larson Bridge	Codington County
93001277	Minnesela Bridge	Butte County
93001268	Old Cochrane Bridge	Deuel County
93001281	Red Shirt Bridge	Custer County
93001300	Redwater Bridge, Old	Lawrence County

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

**National Register of Historic Places
Continuation Sheet**

Section number 3 Page 2

93001269	South Dakota Dept. of Transportation Bridge No. 03-338-100	Beadle County
93001260	South Dakota Dept. of Transportation Bridge No. 03-020-008	Beadle County
93001261	South Dakota Dept. of Transportation Bridge No. 03-327-230	Beadle County
93001270	South Dakota Dept. of Transportation Bridge No. 05-028-200	Bon Homme county
93001271	South Dakota Dept. of Transportation Bridge No. 05-032-170	Bon Homme County
93001272	South Dakota Dept. of Transportation Bridge No. 05-138-080	Bon Homme County
93001273	South Dakota Dept. of Transportation Bridge No. 05-255-130	Bon Homme County
93001276	South Dakota Dept. of Transportation Bridge No. 10-112-355	Butte County
93001275	South Dakota Dept. of Transportation Bridge No. 10-109-360	Butte County
93001278	South Dakota Dept. of Transportation Bridge No. 12-503-230	Charles Mix County
93001265	South Dakota Dept. of Transportation Bridge No. 15-210-136	Codington County
93001279	South Dakota Dept. of Transportation Bridge No. 16-570-054	Carson County
93001280	South Dakota Dept. of Transportation Bridge No. 17-289-107	Custer County
93001282	South Dakota Dept. of Transportation Bridge No. 18-040-137	Davison County
93001283	South Dakota Dept. of Transportation Bridge No. 18-060-202	Davison County
93001284	South Dakota Dept. of Transportation Bridge No. 18-100-052	Davison County
93001285	South Dakota Dept. of Transportation Bridge No. 18-142-150	Davison County
93001286	South Dakota Dept. of Transportation Bridge No. 20-153-210	Deuel County
93001288	South Dakota Dept. of Transportation Bridge No. 25-218-141	Faulk County
93001262	South Dakota Dept. of Transportation Bridge No. 25-380-142	Faulk County
93001289	South Dakota Dept. of Transportation Bridge No. 27-000-201	Gregory County
93001290	South Dakota Dept. of Transportation Bridge No. 27-060-298	Gregory County

United States Department of the Interior
National Park ServiceNational Register of Historic Places
Continuation SheetSection number 3 Page 3

93001291	South Dakota Dept. of Transportation Bridge No. 29-221-060	Hamlin County
93001292	South Dakota Dept. of Transportation Bridge No. 29-279-010	Hamlin County
93001293	South Dakota Dept. of Transportation Bridge No. 30-257-400	Hand County
93001294	South Dakota Dept. of Transportation Bridge No. 31-115-110	Hanson County
93001297	South Dakota Dept. of Transportation Bridge No. 39-006-070	Kingsbury County
93001299	South Dakota Dept. of Transportation Bridge No. 39-176-100	Kingsbury County
93001301	South Dakota Dept. of Transportation Bridge No. 44-028-220	McCook County
93001302	South Dakota Dept. of Transportation Bridge No. 44-212-090	McCook County
93001303	South Dakota Dept. of Transportation Bridge No. 47-215-363	Meade County
93001263	South Dakota Dept. of Transportation Bridge No. 47-151-389	Meade County
93001305	South Dakota Dept. of Transportation Bridge No. 48-244-204	Melette County
93001306	South Dakota Dept. of Transportation Bridge No. 49-095-190	Miner County
93001267	South Dakota Dept. of Transportation Bridge No. 50-200-035	Minnehaha County
93001310	South Dakota Dept. of Transportation Bridge No. 56-090-096	Sanborn County
93001312	South Dakota Dept. of Transportation Bridge No. 56-174-090	Sanborn County
93001311	South Dakota Dept. of Transportation Bridge No. 56-117-123	Sanborn County
93001313	South Dakota Dept. of Transportation Bridge No. 58-010-376	Spink County
93001314	South Dakota Dept. of Transportation Bridge No. 58-021-400	Spink County
93001315	South Dakota Dept. of Transportation Bridge No. 58-025-370	Spink County
93001316	South Dakota Dept. of Transportation Bridge No. 58-062-270	Spink County
93001318	South Dakota Dept. of Transportation Bridge No. 58-120-231	Spink County
63001319	South Dakota Dept. of Transportation Bridge No. 58-140-224	Spink County

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Section number 3 Page 4

63001320	South Dakota Dept. of Transportation Bridge No. 58-218-360	Spink County
63001321	South Dakota Dept. of Transportation Bridge No. 62-220-512	Tripp County
63001322	South Dakota Dept. of Transportation Bridge No. 64-061-199	Union County
93001309	Split Rock Park Bridge	Minnehaha County
93001304	Stamford Bridge	Miner County
93001307	Summit Avenue Viaduct	Minnehaha County
93001296	Van Metre Bridge	Jones County

Section 8: Applicable Criteria

93001266 Larson Bridge Codington County

Criterion C should be checked and not A to be consistent with bridge's significance in engineering for its method of construction.

Section 8: Period of Significance

93001266 Larson Bridge Codington County

Period of significance is amended to read "1917" to indicate date of construction and to be consistent with significance in engineering.

93001281 Red Shirt Bridge Custer County

Period of significance is amended to read "1943-1944" to cover the period of construction.

93001278 South Dakota Dept. of Transportation Bridge No. 12-503-230
Faulk County

Due to typographical error, period of significance is corrected to read " 1920-1943."

93001265 South Dakota Dept. of Transportation Bridge No. 15-210-136
Codington County

Period of significance is amended to read "1917" since significance is under criterion C in engineering and the date of construction should be entered.

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Section number 3 Page 5

93001262 South Dakota Dept. of Transportation Bridge No. 25-380-
142 Faulk County

Period of significance is amended to read "1902" because the area of significance is engineering and the period of significance should be based on the date of construction. The bridge was moved from its original site in 1955.

Section 8: Date of Significance

93001308 Eighth Street Bridge Minnehaha County

"1977" is deleted because the date lies outside the period of significance.

93001317 Hall Bridge Spink County

"1904" is deleted because bridge is significant under criterion C for engineering and the move in 1904 falls outside the period of significance which is based on the date of construction and does not appear to have particular importance.

93001286 South Dakota Dept. of Transportation Bridge No. 20-153-
210 Deuel County

"1960" is deleted because the date lies outside the period of significance.

93001262 South Dakota Dept. of Transportation Bridge No. 25-380-
142 Faulk County

"1955" is deleted because the date lies outside the period of significance.

93001302 South Dakota Dept. of Transportation Bridge No. 44-212-
090 McCook County

"1960" is deleted because the date lies outside the period of significance.

United States Department of the Interior
National Park Service

**National Register of Historic Places
Continuation Sheet**

Section number 3 Page 6

93001267 South Dakota Dept. of Transportation Bridge No. 50-200-
035 Minnehaha County

"1935" is deleted because the date lies outside the period
of significance which is based on the date of construction.

93001311 South Dakota Dept. of Transportation Bridge No. 56-117-
123 Sanborn County

"1905" is deleted because the date lies outside the period
of significance and does not appear to have particular
importance.

Melissa Dirr, architectural historian, of the South Dakota State
Historic Preservation Office was notified of the above-mentioned
amendments by telephone on December 09, 1993.

DISTRIBUTION:

**National Register property file
Nominating Authority (without nomination attachment)**