

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: Capa Bridge

other name/site number: South Dakota Dept. of Trans. Br. No. 38-072-033

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2. Location

=====

street & number: Local road over the Bad River

not for publication:

city/town: Murdo

vicinity: X

state: SD county: Jones

code: 075 zip code: 57559

=====

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: [Handwritten Signature] Date: 10/12/97
State or Federal agency and bureau: South Dakota SHPO

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):

[Handwritten Signature] 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: Pratt through 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: Politics/Government
Engineering

Period(s) of Significance: 1919 - 1943

Significant Dates : 1919 _____

Significant Person(s): N/A

Cultural Affiliation: N/A

Architect/Builder: _____

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

Latitude: 44o 08' 54"
 Longitude: 100o 56' 42"

___ See continuation sheet.

Verbal Boundary Description: ___ See continuation sheet.

The nominated property consists of a rectangle, 24 feet wide by 203 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 Wayne Rosby/Engineer

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

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Section number 7 Capa Bridge Page 6
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The Capa Bridge is located 15.7 miles north and 9.8 miles west of Murdo, 3 miles east of Capa, and carries a local road over the Bad River. The bridge has one main span and seven approach spans; the main span (127 feet) is a steel riveted, pratt through truss, and the five west and two east approach spans are wood stringers. The main span sits on two concrete piers, while the east approach spans sit on the concrete pier, a wood pile bent and a wood pile abutment with plank backwalls and wing walls. The five west approach spans rest on the concrete pier, four wood pile bents, and a wood pile abutment. The main span is comprised as follows: the upper chords consist of two steel channel sections riveted with a continuous steel cover plate along their upper flanges and lacing bars riveted along their lower flanges; the lower chords consist of two paired steel angle channel sections riveted with lacing bars; the diagonals consist of two steel angle sections riveted with batten plates. The concrete deck is poured to encase the top portion of the steel I-beam stringers and steel I-beam floor beams. The stringers are riveted to the webs of the floor beams which in turn are riveted to gusset plate atop the lower chord. The portal bracing consists of steel angle sections. The sway bracing consists of lacing bars between paired angle sections, with knee braces. Both top and bottom lateral bracing consists of angle section cross bracing. Two steel angle sections comprise the railing along each side of the bridge.

The bridge retains excellent integrity.

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Section number 8 & 9 Capa Bridge Page 7

8. Significance

Bridge no. 38-072-033 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 the decision of Jones County to build its own bridges. Bridge No. 38-072-033 is also eligible under Criterion C as a rare example of a riveted Pratt through truss built before the 1920s in South Dakota.

On April 1, 1919 bids were received on this bridge as well as 12 other county bridges from The Federal Bridge Company, J.E. Houseman, The Illinois Bridge Company, and G.W. England. On April 10, 1919, all bids were rejected and the commissioners instructed the County Superintendent of Highways to build all bridges for which the county had plans on file. On August 2, 1919, the commissioners moved that the superintendent finish all bridges for which supplies were on hand, then cease construction on all other planned bridges. On January 6, 1920, the county auditor was instructed to advertise for bids for county bridges. A bridge at the location of No. 38-072-033 was not included and was not again mentioned in the commissioners proceedings, suggesting that this bridge was built by a county crew, although it would have been a major undertaking.

Bridge No. 38-072-033 was built in 1919 during an era of transition in the types of metal truss bridges built in South Dakota. Prior to this time, the pin-connected Pratt was the most widely used bridge type in the state. After about 1910, however, the riveted connection replaced the pin-connection as standard practice and, until about 1920, the riveted Warren truss became more frequently used for small spans, although the pin-connected Pratt remained the preferred type for longer spans. Bridge no. 38-072-033 represents an important experiment in bridge design during this era because of the use of riveted connections rather than pin-connections for a Pratt through type bridge. It is one of only two riveted Pratt through trusses documented as pre-1920 to be identified by the statewide inventory of historic bridges in South Dakota.

9. Bibliography

Jones County Commissioners Proceedings, Book 1, pp. 68, 74, 78, 101, & 129.

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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

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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

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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

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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.

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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.

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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)**