NPS Form 10-900 (Oct. 1990)

United States Department of the Interior National Park Service

# National Register of Historic Places Registration Form



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									<u> </u>	
historic na	me	Okob	oji Bri	dge							
other name	es/site number .										
2. Location	on										
street & nu	umber <u>180±h</u>	Ave	nue	0	ver branch o	f Little S	Sioux P	liver		not for pu	ublication
city or tow	n	6.0 m	niles so	outhwest o	of Milford		**			vicinity	
state	Iowa	code _	IA	county	Dickinson		code _	059		zip code	45302
3. State/F	ederal Agency	Certificat	ion								
of His proper nat	quest for determination to Places and menty X meets ditionally X statewide ture of certifying officer or Federal agency a opinion, the propertients.)	ets the process not mee locally.	cedural are the Nati	nd professional lonal Register continuation	al requirements se criteria. I recomm sheet for additiona	t forth in 36 end that this I comments.	CFR Par property	t 60. In be cons	my o	opinion, the d significant	
Signat	ture of certifying office	cial/Title						Date			
State	or Federal agency a	nd bureau									
4. Nation	al Park Service	Certificat	tion		$a \wedge$				<u>1</u> /	1	
entered Se	ertify that the production of the continuation	l Register heet		jister	Colsa	u H.	15	Dal		6	.25.9
_ □ Se	e continuation s	heet									
	nined not eligible ed from the Nati			Register							
	ed from the Nati (explain):	oriai negi	3(G)				****				

5. Classification							
Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)	Number of Resources within Property (Do not include previously listed resources in the count)					
private	□ building(s)	Contributing	Noncontributing				
public-local	☐ district	0	0	buildings			
public-State	☐ site ■ structure ☐ object	0	0	sites			
□ public-Federal		1	0	 structures			
		0	0	objects			
		1	0	, Total			
Name of related multiple pr (Enter "N/A" if property is not part or	operty listing f a multiple property listing)	Number of contributing resources previously listed In the National Register					
Highway Bridges of Ic	owa	0					
6. Function or Use							
Historic Functions (Enter categories from instructions)		Current Functi (Enter categories fr					
TRANSPORTATION/ro	oad-related	VACANT/1	not in use				
7. Description							
Architectural Classification (Enter categories from instructions)		<b>Materials</b> (Enter categories fr	om instructions)				
other: Pratt/Warren p	ony truss	foundationTil	mber				
			-				
		other Ste	· ·				

**Narrative Description** 

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

Located 6.0 miles southwest of Milford, the bridge spans branch of Little Sioux River in a rural Dickinson County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 1 construction date: 1909; moved c1930

span length: 80.0' construction cost: \$1550.00 total length: 83.0' current condition: fair

roadway wdt.: 15.8' atterations: truss moved, c1930; bridge closed to traffic

superstructure: steel, 5-panel, rigid-connected Pratt/Warren pony truss

substructure: timber pile bent abutments and backwalls timber pile piers under floor beams

floor/decking: timber deck over steel stringers

other features: upper chord and inclined end post: 2 channels with lacing on top and bottom; lower

chord: 2 channels with lacing; vertical: 4 angles with lacing; diagonal: 2 channels with lacing; portal bracing: 2 angles through deck; floor beam: I-beam, bolted to vertical;

bottom lateral bracing: round rod with threaded ends; guardrail: 2 angles

Other than its move around 1930, at which time it was changed from a center-pivot to a fixed span, the Okoboji Bridge remains essentially unaltered. It retains a high degree of integrity of location, materials, workmanship and association.

8. Statement of Significance	
Applicable National Register Criteria (Mark "x" in one or more boxes for the criteria qualifying for National Register listing)	Areas of Significance the property (Enter categories from instructions)
□ A Property is associated with events that made a significant contribution to the patterns of our history.	
☐ <b>B</b> Property is associated with the lives of significant in our past.	persons
C Property embodies the distinctive char of a type, period, or method of constru- represents the work of a master, or po- high artistic values, or represents a sig- and distinguishable entity whose comp- lack individual distinction.	uction or ——————————————————————————————————
□ D Property has yielded, or is likely to yie	(The period of significance is derived
information important in prehistory or h	
Criteria Considerations (Mark "x" in all the boxes that apply)	Significant Dates
Property is:	1909 (construction date)
☐ A owned by a religious institution or use religious purposes.	d for
☐ <b>B</b> removed from its original location.	Significant Person (Complete if Criterion B is marked above)
☐ C a birthplace or grave.	N/A
□ D a cemetery.	Cultural Affiliation
☐ E a reconstructed building, object, or str	ucture. N/A
☐ F a commemorative property.	
☐ <b>G</b> less than 50 years of age or achieved within the past 50 years.	significance  Architect/Builder  designer: Clinton Bridge and Iron Works, Clinton IA  fabricator: Clinton Bridge & Iron Wks.; Illinois Stl. Co.
Narrative Statement of Significance (Explain the significance of the property on continu-	builder:
9. Major Bibliographical References Bibliography	
(Cite the books, articles, and other sources used in prep	paring this form on one or more continuation sheets.)
Previous documentation on file (NPS):	Primary iocation of additional data:
<ul> <li>□ preliminary determination of individual list CFR 67) has been requested</li> <li>□ previously listed in the National Register</li> <li>□ previously determined eligible by the National Register</li> <li>□ designated a National Historic Landmark</li> <li>□ recorded by Historic American Buildings</li> <li>□ recorded by Historic American Engineerin Record</li> </ul>	other State agency Federal agency ional Local government University other Survey name of repository:

Okoboji Bri	dge	Dickins	son Cour	nty; Iowa		
10. Geographic	ai Data					
Acreage of Prop	erty less than one acre					
UTM References (Place additional UTM	s I references on a continuation sheet)					
1 15 3190 zone eastin	40 4791980 g northing	2 <u>zor</u>	ie easting	northing		
Verbal Boundary	Description					
The nominated centered on th	l property is a rectangular-shaped e UTM point(s) listed above. Include substructure, approach spans and flo	ed withi	n this re	g 18 feet b ctangular pa	y 83 feet arcel are t	t, which i he bridge'
The nominated proach spans a	cation  Industries were selected)  I structure includes the bridge's supund the property on which they rest.  Earty that has been historically associa	These b	oundarie	s encompas	oor system	m, any ap not exceed
11. Form Prepa	red By				····	
name/title	Clayton Fraser and John Lauber					
organization	Fraserdesign	da	ate	31 August	1994	
street & number	1269 Cleveland Avenue	te	lephone _	303-669-79	969	
			-			

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 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 SHPO or FPO)							
name/title	Dickinson County							
street & number <sub>.</sub>	1810 Ithaca Avenue	telephone _	712-336-2944					
city or town	Spirit Lake	state	Iowa	_ zip code _	51360			
-		<u> </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.

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## National Register of Historic Places Continuation Sheet

Section Number 8 Page 1 Okoboji Bridge Dickinson County; Iowa

Soon after the initial settlement of Dickinson County, a system of roads began to develop to link the farms and towns of the region. The first county roads included a route extending westward from Spirit Lake toward Sioux City, one running south from Spirit Lake to Gar Outlet and one starting at Spirit Lake and running east between East Okoboji and Spirit Lakes, then south and west to Gar Outlet. Establishing the latter two routes involved bridging the county's two most strategic crossings: the straits between East and West Okoboji Lakes and between East Okoboji and Spirit Lakes. Prior to construction of bridges, travelers were faced either with fording the crossings or with journeying several miles around the lakes. In December 1859 Dickinson County hired local contractors to build the county's first bridges at these points. As described in the minutes of the county board of supervisors, the contracts called for "one [bridge] across Lake Okoboji at the narrows east of Spirit Lake and one across the straits which connect East and West Okoboji lakes."

Predictably short-lived, the two wooden structures were rebuilt in 1874-75. By this time, local sentiment was growing that steamboats should be able to navigate between East and West Okoboji Lakes. Draw bridges were proposed at both locations to permit boats to pass beneath. L.W. Waugh, a county supervisor, subsequently erected such a bridge between East and West Okoboji Lakes. A pulley system with a block-and-tackle affixed to a derrick was built to raise and lower the structure, but it proved too cumbersome. With great difficulty, the bridge was raised only once or twice in this fashion before it was lowered permanently. Under pressure to allow navigation between the two lakes in the early 1880s, the Dickinson County Board of Supervisors contracted for the construction of a new timber swing-span bridge here in 1883. After little more than a decade, it, too, began showing signs of decay. In June 1897 the county supervisors appointed a committee to oversee erection of a new swing span. After some delay, the supervisors proceeded with the construction late that year. Completed early in 1898, the new swing bridge featured stone masonry piers in place of the earlier timber pile bents. Otherwise, it was little changed from its predecessors.

A decade later, the Okoboji swing bridge once again had deteriorated to the point of replacement. This time, finally, the board of supervisors opted for a more permanent solution. On June 15, 1909, the board contracted with the Clinton Bridge and Iron Works of Clinton, Iowa, to fabricate and erect a new steel bridge. Completed that year for \$1550.00, the new swing span consisted of an 80-foot, rigid-connected pivot truss with a six-foot-wide sidewalk, resting on concrete and masonry abutments. The bridge and the adjacent county road were later incorporated into a U.S. highway and placed under the aegis of the Iowa State Highway Commission (ISHC). Both would carry heavy traffic over the next twenty years. The 1909 truss was replaced with a fixed-span concrete girder structure in 1929. Sometime after that, Dickinson County moved the 1909 truss to this rural crossing in Okoboji Township, erecting it on a timber pile bent substructure. Here it has functioned in place as a fixed-span truss. Timber piles have been inserted under the truss's panel points, and the bridge has recently been closed to traffic, but the truss itself remains unaltered.

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### National Register of Historic Places Continuation Sheet

Section Number 8 Page 2 Okoboji Bridge Dickinson County; Iowa

The Okoboji Bridge is historically significant for its pivotal role in the development of Dickinson County. One of the county's earliest crossings, it clearly encouraged settlement and contributed to the region's socioeconomic development. As the fifth bridge to span the straits between East and West Okoboji Lakes, the 1909 truss represents a continuum of bridge construction stretching back fifty years. During this time, the Okoboji bridge site has witnessed a remarkable progression of bridge construction. From its first rudimentary timber span in 1860, through timber and steel lift and swing spans, the Okoboji Bridge illustrates five decades of technological evolution. The truss itself is technologically noteworthy as a small-scale swing span - the only one of its kind known to remain in Iowa. The bridge's atypical bearing condition is reflected in the truss's web configuration. The center panel, upon which the bridge rested on its pivot pier, features an inverted V diagonal pattern. The truss is thus effectively a hybridization of Pratt and Warren technologies. Although its locational and structural integrity have been compromised substantially by the move, this steel superstructure is still a significant remnant of early transportation.

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# **National Register of Historic Places Continuation Sheet**

Section Number 9 Page 3 Okoboji Bridge Dickinson County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure No. 144820.

Hattie P. Elston, White Men Follow After (Iowa City [IA]: Athens Press, 1946) pages 37-38.

Dickinson County Engineer's Bridge Records, located at Dickinson County Courthouse, Spirit Lake IA.

Dickinson County Supervisors' Minutes, Book D: pages 45 (21 July 1891) and 73 (April 1892), located at the Dickinson County Courthouse, Spirit Lake IA.

Field inspection by Charlene Roise, 8 July 1991.