NPS Form 10-900 (Oct. 1990) \ OMB No. 10024-0018

United States Department of the Interior National Park Service

## National Register of Historic Places Registration Form



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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.

. Name of Property							
istoric name	Chain Lakes I	Bridge					
ther names/site number _							_
. Location							
treet & number	pedestrian tra	il over (	Cedar River			not for p	ublication
ty or town	4.0 miles wes	t of Hia	watha			vicinity	
ateIowa	_ code _ IA	_ county _	Linn	cod	e <u>113</u>	zip code	52233
State/Federal Agency	Certification						
Signature of certifying office  State or Federal agency and In my opinion, the property comments.)	CAL SOCETY OF						
Signature of certifying office	al/Title				Date	}	
State or Federal agency an	d bureau						
National Park Service	Certification		~ ()		Λ	// //	
nereby certify that the progression of the National entered in the National See continuation states and the See continuation states are determined not eligible removed from the Nation	perty is: Register neet the National Regis neet for the National R		Esso 	n H.	Bal	5.	15.98
g other, (explain):			<del></del>				

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	, ,	Contributing Noncontributing			
■ public-local	<ul><li>□ building(s)</li><li>□ district</li></ul>	0	0 buil		
public-State	☐ site ■ structure	0	0 site:		
☐ public-Federal		1	0 stru		
	□ object	0	0 obje		
		1	0 Tota		
Name of related multiple property listing (Enter 'N/A' if property is not part of 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/road-related		TRANSPORTATION/pedestrian-related			
7. Description					
Architectural Classification (Enter categories from instructions)		<b>Materials</b> (Enter categories fr	om instructions)		
other: pinned Pratt through trusses		foundation	Stone		
		walls			
		roof			
		other	Wrought iron		

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

Located west of Hiawatha, the Chain Lakes Bridge spans the Cedar River in a rural setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 2 construction date: 1884 165.0' construction cost: unknown span length: 370.0 total length: current condition: good

roadway wdt.: 15.0' chain link fence railings added alterations:

superstructure: wrought iron, 9-panel, pin-connected Pratt through trusses, with 2 timber stringer ap-

proach spans to the north

stone (south) and timber (north) abutments and wingwalls with stone and timber pile substructure:

bent piers

timber deck over timber stringers floor/decking:

other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord:

2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; center panel counter: 2 looped round eyerods with turnbuckles; adjacent panel counter: 1 looped round rod with turnbuckle; floor beam: tapered "fishtail" plate girder, U-bolted to superstructure; top and bottom lateral bracing: round rod; portal bracing: 2 angles with bar lattice and diagonals; sway bracing: 2 channels/lacing

Other than maintenance-related repairs and alterations noted above, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Chain Lakes 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)	Areas of Significance (Enter categories from instructions)
☐ A Property is associated with events that have made a significant contribution to the broad patterns of our history.	ENGINEERING
□ 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.	Period of Significance
	(The period of significance is derived
D Property has yielded, or is likely to yield, information important in prehistory or history.	from the original construction date.)
Criteria Considerations (Mark "x" in all the boxes that apply)	Significant Dates
Property is:	1884 (construction date)
A owned by a religious institution or used for religious purposes.	
☐ <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 structure.	N/A
☐ F a commemorative property.	
☐ G less than 50 years of age or achieved significance within the past 50 years.	Architect/Builder  dessigner: Wrought Iron Bridge Company, Canton OH
	fabricator: Wrought Iron Bridge Company, Canton OH
Narrative Statement of Significance (Explain the significance of the property on continuation sheets.)	Wrought Iron Bridge Company, Canton OH
9. Major Bibliographical References	
Bibliography (Cite the books, articles, and other sources used in preparing this form or	n one or more continuation sheets.)
Previous documentation on file (NPS):	Primary location of additional data:
<ul> <li>□ preliminary determination of individual listing (36 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 Survey</li> <li>□ recorded by Historic American Engineering Record</li> </ul>	■ State Historic Preservation Office  other State agency  Federal agency  Local government  University  other  name of repository:

Chain Lake	s Bridge	Linn County; l	owa		
10. Geographic	al Data				
Acreage of Prop	erty less than one acre				
UTM References					
•	40 4655800	2 15 60134	40 4655910		
zone eastin	g northing	zone easting	northing		
Verbal Boundary (Describe the boundary					
centered on th	l property is a rectangular-shaped e UTM point(s) listed above. Include substructure, approach spans and f	led within this re	g 17 feet by 3 ectangular pard	370 feet cel are tl	, which is he bridge's
The nominated proach spans a	cation  Industries were selected)  I structure includes the bridge's suicate the property on which they rest.  I structure includes the bridge's suicate the property on which they rest.  I structure that has been historically associated.	These boundari	es encompass,	or systen but do n	n, any ap- not exceed,
11. Form Prepa	red By				
name/title	Robert Hybben, Charlene Roise an	d Michelle Crow	-Dolby		
organization	Fraserdesign	date	31 August 19	994	
street & number	1269 Cleveland Avenue	telephone	303-669-796	59	
city or town	Loveland	state		zip code _	80537
Additional Docu	mentation				
Submit the following	items with the completed form:				
Continuation Sh	eets				
	map (7½ or 15 minute series) indicating the map for historic districts and properties to			esources	
Photographs Represen	tative <b>black and white photographs</b> of th	e property			
Additional Items					

(Check with the SHPO or FPO for any additional items)

Property Owner								
(Complete this item at	t the request of SHPO or FPO)							
name/title	Linn County Conservation Commission							
street & number	1890 County Home Road	telephone _	319-398-35	505		_		
city or town	Marion	state	Iowa	_ zip code _	52302			

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**

<b>Section Number</b>	8	Page	1	Chain Lakes Bridge	Linn County; Iowa

The Chain Lakes Bridge is a substantial two-span structure over the Cedar River northwest of Cedar Rapids, just south of the small community of Palo. The bridge now serves pedestrians visiting a nature area maintained by the Linn County Conservation Board. A picnic area and boat landing are near the bridge's south approach; the northern bank is heavily wooded. County board minutes are somewhat unclear about the history of this bridge, but planning for it apparently began in the early 1880s. In June 1880 the Board of Supervisors appropriated \$20,000.00 for this two-span, pinned Pratt truss on massive stone abutments and piers. Information regarding bridge construction is not included in subsequent board minutes. Recent file notations, apparently made by the county engineer's office, record the contractor as the Wrought Iron Bridge Company of Canton, Ohio, and the date of erection as 1884. This information came from a now-removed bridge plate. The Wrought Iron Bridge Company was organized by David Hammond in 1864, and incorporated in 1871. It was active in Linn County from at least 1879, receiving contracts for a number of bridges. In 1900, the company was absorbed by the American Bridge Company.

With virtually all of the in-state and national bridge companies promoting it, the pin-connected Pratt through truss was the steel bridge of choice for medium- and large-scale crossings in Iowa in the late 19th century. Thousands of such spans were erected on the state's road system during this period of intense bridge construction activity, and today they remain the most populous structural type remaining from the 19th century. The Chain Lakes Bridge is distinguished among these for its two-span configuration, its early erection date and its outstanding state of preservation.

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

Section Number 9 Page 2 Chain Lakes Bridge Linn County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure No. 221850.

Linn County Bridges, Supervisors' Proceedings, 1843-1900: page 149 (July 1879), page 152 (June 1880), and page 164 (June 1881), located at the Linn County Engineer's Office, Cedar Rapids IA.

Victor C. Darnell, Directory of American Bridge-Building Companies, 1840-1900 (Washington, D.C.: Society for Industrial Archeology), page 48.

Field inspection by Charlene K. Roise, 27 September 1991.