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.

<u>1.</u>	Name of Property							
hist	oric name	Storm Cı	reek Bridge					_
oth	er names/site number		· · · · · · · · · · · · · · · · · · ·		<del></del>			
2.	Location							
stre	eet & number <u>Phoer</u>	nix Avenue	e over Stor	m Creek			☐ not for pu	ublication
city	or town	4.0 miles	s northeast of	Carroll			vicinity	
stat	teIowa	code <u>IA</u>	county _	Carroll	code	027	zip code	51401
3.	State/Federal Agency	Certification						
	As the designated author request for determinate of Historic Places and me property meets of the property of t	eets the procedured the locally. (	neets the document ral and professional National Register of See continuation s	ation standards fo I requirements set criteria. I recommon sheet for additiona	r registering properties to forth in 36 CFR Parend that this property I comments.)	es in the Int 60. In be consi	National Register my opinion, the dered significant	
	Signature of certifying offi	icial/Title			,	Date		
	State or Federal agency a	and bureau						
4.	National Park Service	e Certification		$\sim$	Δ1 <b>Ω</b>	771		
	e eby certify that the presentered in the National See continuation of determined eligible for See continuation of the See con	al Register sheet r the National sheet	_	Elsa	n W. Bea		6.25.	98
	determined not eligible removed from the National Republic Programme (National Republic Programme) and the R		_					
	other, (explain):	dona nogoter		-				

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	0	0	sites		
☐ public-Federal	■ structure □ object	1	0	structures		
		0	0	objects		
		1	0	Total		
Name of related muitiple 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	TRANSPORTATION/road-related				
7. Description						
Architectural Classification (Enter categories from instructions)		Materials (Enter categories fr	om instructions)			
other: steel Warren pony truss		Con	crete			
			:			
		walls				
			1			
		otherStee	F			

**Narrative Description** 

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

Located 4.0 miles northeast of Carroll, the Storm Creek Bridge spans Storm Creek in a rural Carroll County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 1 construction date: 1913

span length: 60.0' construction cost: \$2026.00 (engineer's estimate)

total length: 64.0' current condition: fair roadway wdt.: 15.6' alterations: none

superstructure: steel, 4-panel, rigid-connected Warren pony truss

substructure: concrete abutments and wingwalls floor/decking: concrete deck over steel stringers

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

d: 2 angles with batten plates; vertical: 4 channels with continuous plate; diagonal: 2 angles with lacing; lateral bracing: 1 angle; floor beam: I-beam, field-bolted to vertical

Other than maintenance-related repairs and alterations noted above, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Storm Creek 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:	1913 (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						
$\square$ <b>E</b> a reconstructed building, object, or structure.	N/A						
☐ <b>F</b> a commemorative property.							
☐ <b>G</b> less than 50 years of age or achieved significance within the past 50 years.	Architect/Bullder  designer:    Iowa State Highway Commission  fabricator:						
	Standard Bridge Co.; Cambria Steel Co.						
Narrative Statement of Significance (Explain the significance of the property on continuation sheets.)	Standard Bridge Company, Omaha NE						
9. Major Bibliographical References							
Bibliography (Cite the books, articles, and other sources used in preparing this form on 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:						

Storm Cree	k Bridge	Carroll County	; Iowa
10. Geographic	ai Data		
Acreage of Prop	erty less than one acre		
UTM References (Place additional UTM	i I references on a continuation sheet)		
1 15 3509	00 4662470	2	
zone eastin	g northing	zone easting	northing
Verbal Boundary (Describe the boundary	Description ries of the property)		
The nominated	l property is a rectangular-shaped	parcel measurin	g 18 feet by 64 feet, which is
	e UTM point(s) listed above. Include substructure, approach spans and fl		ectangular parcel are the bridge's
superstructure,	substructure, approach spans and h	oor system.	
Boundary Justifi	cation ndaries were selected)		
·	l structure includes the bridge's su	perstructure, sub	structure, floor system, any an-
proach spans a	nd the property on which they rest.	These boundarie	es encompass, but do not exceed,
all of the prop	erty that has been historically associ	ated with the br	idge.
11. Form Prepa	red By		
name/title	Clayton B. Fraser		
organization	Fraserdesign	date	31 August 1994
street & number	1269 Cleveland Avenue	telephone	303-669-7969
city or town	Loveland	state	Colorado zip code 80537
Additional Docum	mentation		
	items with the completed form:		
Continuation She	eets		
Maps A USGS	map (7½ or 15 minute series) indicating th	e property's locatio	n

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	Carroll County						
street & number 115 East Fifth			elephone _	712-792-3603			_
city or town	Carroll		state	Iowa	_ zip code _	51401	

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

Section Number 8 Page 1 Storm Creek Bridge Carroll County; Iowa

The Storm Creek Bridge is one of a series of riveted Warren pony trusses built in Carroll County in 1913; it is the prototypical example of what would become an Iowa State Highway Commission standard design. The bridge carries a secondary county road over Storm Creek some three miles northeast of Carroll. The structure consists of a 60-foot, rigid-connected Warren pony truss, supported by a concrete substructure. According to Carroll County records, the bridge traces its history to late 1912. In December of that year, the county board of supervisors awarded a contract to build all of the county's steel and wood bridges for 1913 to the Standard Bridge Company of Omaha. The following spring the Iowa State Highway Commission prepared designs for nine separate pony trusses, ranging in span length from 35 to 75 feet. In July 1913 the county authorized construction of fifteen steel bridges built from these designs. The ISHC's First Annual Report announced that the bridges were to be used "largely as standards for other counties desiring that type of bridge." The report concluded that the structures, "while not possessing the neat appearance or the rigidity of the slab floor type of bridge, seemed to be very much in demand by the counties having a considerable number of drainage ditches to span, which deserved cheaper construction..." The list included this 60-foot pony truss between Sections 9 and 10 of Grant Township, with an estimated cost of \$2026.00. Standard Bridge subsequently erected the bridges for the aggregate sum of \$29,174.00. Since its completion in 1913, this bridge has carried vehicular traffic with only minor, maintenance-related repairs.

The Iowa State Legislature passed the Brockway Act on April 9, 1913, largely in response to poor road and bridge contracting practices among the counties. As one of the act's key provisions, the newly reorganized state highway commission was directed to design (or approve designs for) all vehicular bridges costing more than \$2000.00. ISHC, under the direction of Designing Engineer C.B. McCullough, prepared so-called "special designs" for the major crossings. For the myriad small ditch and stream crossings across the state, ISHC developed standardized plans. These standards initially included concrete slabs and culverts and steel through and pony trusses. The plans submitted to Carroll County in the spring of 1913 represented the prototypes for ISHC's pony trusses: experimental designs that soon became the basis for the ISHC X-Series standards. This unimposing Carroll County span is thus technologically significant, because it represents one of the state's prototypical X-Series standards.

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

Section Number 9 Page 2 Storm Creek Bridge Carroll County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure Number 095240.

Carroll County Board of Supervisors' Minutes, Book G: page 292 (27 December 1912), page 344 (11 July 1913).

C.B. McCullough, "Standardization of Highway Bridge Practice," thesis, Iowa State College, page i.

First Annual Report of the Iowa State Highway Commission, page 26 (April 1913 to December 1914).

Field inspection by Clayton Fraser, 25 April 1992.