National Park Servi			S AAM
National Reg Registration	National Register of Historic Places 0922 (3A)3038 Registration Form		
1. Name of Property			
Historic name:	N/A		
Other name/site numbe	er: Chapman Creek Pratt Trus	ss Bridge (preferred); 21-H	IT-02; 08583.00436.6
2. Location On Qua	uil Road, 1.7 miles south of the	intersection with Route 18	; 1.0 mile west and 2.5 mil
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	agency and bureau ropertymeetsdoes not n sheet for additional comment		ster criteria.
Signature of comme	enting or other official	Date	
State or Federal a	igency and bureau		
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NPS Form 10-900 CMB No. 1024-0018 (Rev. 10/90)

United States Department of the Interior National Park Service

# National Register of Historic Places Registration Form

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determined eligible for the National Register See continuation sheet		
determined not eligible for the National Regi	ster.	
removed from the National Register.		
other, (explain:)		

Signature of Keeper

Date of Action

Property Name Chapman	Creek Pratt Truss Bridge		
County and State Dickinson	n, Kansas		Page <u>2</u>
5. Classification			
Ownership of Property	Category of Property	No. of Resources wi	thin Property
private	<pre> building(s)</pre>	contributing	noncontributing
X public-local	district	an a	buildings
public-State	site		sites
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Name of related multiple pr (Enter "N/A" if property is multiple property listing.)	not part of a	No. of contributing listed in the Natio	resources previously nal Register
Metal Truss Bridges in Kan	sas	0	
6. Functions or Use			
Historic Functions (Enter categories from inst	ructions.)	Current Functions (Enter categories fr	om instructions.)
TRANSPORTATION: Road-rel	ated (vehicular)	TRANSPORTATION: ]	Road-related (vehicular)
7. Description			<u> </u>
Architectural Classificatio (Enter categories from inst		Materials (Enter categories f	rom instructions.)
OTHER: Pratt Truss		Foundation Concr	ete, wood
· · · · · · · · · · · · · · · · · · ·		Roof	
		Other Metal: Iron	n, steel

USDI/NPS NRHP Reg	istration Form		
Property Name	Chapman Creek Pratt Truss Bridge	n fan en skrieten en skrie Nederlande skrieten en skri Nederlande skrieten en skri	
County and State_	Dickinson, Kansas		Page <u>3</u>
	<b>Significance</b> al Register Criteria (Mark "x" in onal Register listing.)	one or more boxes for the crite	ria qualifying the
A Property i of our his	s associated with events that have tory.	made a significant contributio	n to the broad patterns
B Property is	s associated with the lives of per-	sons significant in our past.	
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D Property ha	as yielded, or is likely to yield,	information important in prehi-	story or history.
	ations (Mark "x" in all the boxes		
A owned by a	religious institution or used for	religious purposes.	
B removed fro	om its original location.		
C a birthplac	ce or a grave.		
Da cemetery.			
E a reconstru	ucted building, object, or structur	re.	
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Significant Person	<b>n</b>	Architect/Builder	(1)
N/A		Canton Bridge Company (Canton	, Ohio)

USDI/NPS NRHP Registration Form	
Property Name Chapman Creek Pratt Truss Bridge	
County and State Dickinson, Kansas	Page <u>4</u>
9. Major Bibliographical References (Cite the books, articles, and other sources used in preparing t sheets.)	his form on one or more continuation
Previous documentation on file (NPS):	Primary location of additional data:
preliminary determination of individual listing	X State Historic Preservation Office
(36 CFR 67) has been requested	Other State agency
previously listed in the National Register	Federal agency
previously determined eligible by the National Register	X Local government
designated a National Historic Landmark	University
recorded by Historic American Buildings	Other
Survey #	Specify repository:
recorded by Historic American Engineering	
Record #	
10. Geographical Data   Acreage of property  <1 acre	
UTM References   4/3/1/9/3/7/0   3 /   / / / / /     1   1/4   6/7/0/0/0/0   4/3/1/9/3/7/0   3 //   Zone   Image: Additional content of the second content of the	///// Northing
2 / 1//// //// 4 / /////	<u></u>
See cont	inuation sheet
Verbal Boundary Description (Describe the boundaries of the prop	erty on a continuation sheet.)
Dourdour Instification (Puploin who the hourdonics who colorbad	an a poptimum short )
Boundary Justification (Explain why the boundaries were selected 11. Form Prepared By	on a continuation sheet.)
name/title Kerry Davis, Architectural Historian & Elizabeth Rosin, Partne	er
organization Historic Preservation Services	date <u>August 5, 2002</u>
street & number 323 West Eighth Street, Suite 112	telephone <u>(816) 221-5133</u>
city or town Kansas City	state <u>Missouri</u> zip code <u>64105</u>
Additional Documentation Submit the following items with the completed form:	
Continuation Sheets Maps	
A USGS map (7.5 or 15 minute series) indicating the property A sketch map for historic districts and properties having la Photographs	
Representative black-and-white photographs of the property.	
Additional items (Check with the SHPO or FPO for any additional i	items.)
Property Owners (Complete this item at the request of the SHPO	or FPO.)
Name County of Dickinson	
street & number 109 East 1st Street, Courthouse, P.O. Box 248	telephone <u>785-263-3093</u>

United States Department of the Interior National Park Service

### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 1

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

# DESCRIPTION

LOCATION AND SETTING

The Chapman Creek Pratt Truss Bridge is located 2.5 miles north and 1.0 mile west of the town of Chapman in the Flint Hills region of east-central Kansas, on the north-south line between the SE ¼ of Section 13, Township 12S, Range 3E and the SW ¼ of Section 18, Township 12S, Range 4E. The region is defined by rolling prairie hills interrupted by deep, tree-lined creek valleys and rocky bluffs. The Chapman Creek Pratt Truss Bridge carries Quail Road across Chapman Creek, a narrow, meandering tributary of the Smoky Hill River. The dirt roadway, flanked by cultivated fields, aligns directly with the Chapman Creek Pratt Truss Bridge.

#### TRUSS TYPE

The Chapman Creek Pratt Truss Bridge consists of a single span, pin-connected through truss¹ that measures 80 feet in length and a flat girder approach span at each end. The north approach span measures 36 feet in length and the south approach span measures 20 feet in length. The deck is 16 feet wide. Timber abutments retain the approach embankments and concrete-filled sheet metal columns form the piers that support the truss bearings.

The inclined end posts rise from the bearings and meet the horizontal top chords to form a trapezoidal shape. The top chords and inclined end posts are composed of two channels, a cover plate, and lacing bars; the bottom chords consist of paired, flat eye bars.

The web members consist of vertical posts that form five equivalent panels and diagonal ties that intersect within the central panel. Angle stock and lacing bars compose the vertical posts. Flat eye bars and tension rods compose the diagonal ties.

A system of intersecting angle stock forms the portal and upper sway struts that connect the top chords at each vertical post, leaving a vehicular clearance of 14 feet. Upper lateral bracing rods intersect diagonally between the top chords and sway struts.

The timber deck is 16 feet wide and rises 23 feet above the creek bed on steel I-beam stringers. Floor beams located at the base of each vertical web member are connected by lower lateral bracing rods.

The historic lattice guardrails are intact along the length of the bridge. Letters in relief read "JONES & LAUGHLINS" on several structural components.

### **INTEGRITY**

The Chapman Creek Pratt Truss Bridge is an excellent example of this bridge type, historically the most popular in Kansas.² It retains a high degree of integrity, with no apparent alterations to the original design or materials. The original workmanship, materials, design, setting, and feeling of the property are readily apparent. Furthermore, the potential for preservation of the bridge is high. Located on a lightly traveled road, it is unlikely that traffic requirements will necessitate alteration or replacement.

¹ A through truss is also referred to as a high truss.

² Larry Jochims, Metal Truss Bridges in Kansas 1861-1939, National Register of Historic Places Multiple Property Documentation Form, (Topeka: Kansas State Historical Society, 1989), E1. Jochims stated there were approximately 262 extant Pratt trusses in Kansas. Dale Nimz, Activity III Review Initial Assessment Metal Truss Bridges. (Topeka: Kansas State Historical Society, 1998), 6. Nimz stated there were approximately 800 extant Pratt trusses in Kansas.

United States Department of the Interior National Park Service

# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

#### Section Number 7 Page 2

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas



United States Department of the Interior National Park Service

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 3

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

# STATEMENT OF SIGNIFICANCE

The Chapman Creek Pratt Truss Bridge is significant under National Register Criterion C in the areas of Engineering and Transportation. As defined by the *Multiple Property Documentation Form for Metal Truss Bridges in Kansas*, it is an excellent example of the Pratt truss bridge type. Built in 1905,¹ the Chapman Creek Pratt Truss Bridge represents a common bridge solution applied to a relatively long span. Its pin-connected structure, timber deck and abutments, coupled with concrete-filled sheet metal piers illustrate the technological transitions that took place during the period of significance. As no historic name identifies this bridge, the preferred name "Chapman Creek Pratt Truss Bridge" has been assigned. This describes the location, design, and function of the structure.

## **ELABORATION**

The need for all-weather crossings of rivers and streams corresponded to the growth of the market economy across Kansas during the late nineteenth and early twentieth centuries. Bridges provided farmers easy access to markets and could make the difference between growth and stagnation for the many small, young communities across the state.² Proximity to a bridge often secured a town's economic stability, and it contributed to a local sense of modernity.

Prior to the 1930s, the railroad was the primary means of long-distance travel and there was little need for roads to extend more than a few dozen miles. With little stimulus for improving roads that would cross multiple jurisdictions, road construction and maintenance remained local concerns. County commissioners often carried the burden of selecting bridge locations, over which much contention was common.

The range of choices for bridge designs and companies was vast. Many of the larger bridge companies sold metal truss bridges through mail order catalogues. County commissioners could simply specify the span, clearance needs, and truss type (if there was a preference), then choose the lowest bidder from the numerous competing companies that had salesmen in the field.

By the late nineteenth century, fabrication of iron and steel was widespread. The speed of construction and the relatively low cost of metal truss bridge parts ensured their popularity over labor-intensive masonry bridges and short-lived timber bridges. Toward the end of the nineteenth century the quality, quantity, and cost of steel improved to a degree that it virtually replaced wrought iron for bridge construction by 1910.³

Most metal trusses were constructed of built-up members composed of mass-produced, standard-shaped channel, plate, and angle stock purchased from one or more of the numerous steel companies nationwide. The bridge companies preassembled trusses in their factories then simply shipped them to the bridge site for installation. Installation involved grading approaches, constructing abutments and piers, erecting preassembled floor and truss members, and placing deck material.

¹ Kansas Department of Transportation records.

² Jochims, E.

³ Jochims, F.

United States Department of the Interior National Park Service

### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 4

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

Before 1900, generally all panel point connections – the locations at which structural bridge elements intersect – were made with the use of a pin. This technique was so widespread that it became one of the distinctive features of American bridge construction in the nineteenth century.⁴ The pin-connected construction of the Chapman Creek Pratt Truss Bridge illustrates the standardization of this technique. However, subsequent advancements in pneumatic riveting techniques greatly improved rivet installation quality, enabling more reliable panel point connections. With the increased portability of this construction technology, the more rigid riveting technique rapidly surpassed pin-connected bridge construction during the first years of the twentieth century.

In addition, the contemporary development of economic cement production promoted the widespread combination of steel and concrete in bridge construction. It was not uncommon for older metal truss bridges to receive new reinforced concrete decks or poured concrete reinforcements for older stone abutments. By the 1920s, reinforced concrete was the standard material for abutments, piers, and decks of steel truss bridges. The combination of timber abutments and concrete-filled sheet metal piers found on this bridge illustrates the transition in construction technology that occurred during the period of significance.

The Chapman Creek Pratt Truss Bridge is a classic example of this truss design. Patented in 1844, the Pratt truss incorporates vertical members in compression and diagonal members in tension, a design that reduces the required length of compression members, helping to prevent bending or buckling.⁵ The Pratt truss became the most common bridge type of the late nineteenth and early twentieth centuries and spawned numerous variations including Parker, Camelback, Baltimore, Truss Leg Bedstead, Lenticular, and Pennsylvania trusses.⁶

In Kansas, Pratt truss bridges were constructed well into the twentieth century, suggesting the appeal of the design's strength and economical construction costs.⁷ In 1998, approximately 800 Pratt truss bridges, including the Cottonwood River Pratt Truss Bridge, existed throughout the state of Kansas.⁸

# STRUCTURE HISTORY

First settled in 1855, the area surrounding the Chapman Creek Pratt Truss Bridge remained sparsely populated until the construction of the Kansas Pacific Railroad along the north bank of the Solomon River in 1866. In response to increased settlement along Chapman Creek, the nearby town of Chapman was platted in 1871. The rural community supported substantial commercial development and, in 1883, the town featured four general merchandise stores, a drug store, a hardware store, a lumberyard, a hotel, a gristmill, an elevator, and a livery stable.⁹ Into the 1930s, Chapman, with a population of 819, remained a trading center for the predominantly

⁴ Ibid, F.

⁵ T. Allan Comp and Donald Jackson, *Bridge Truss Types: A guide to dating and identifying*. (Nashville, Tennessee: American Association for State and Local History, Technical Leaflet 95), 8.

⁶ Ibid, 8.

⁷ Jochims, F2.

⁸ Nimz, 6.

⁹ William G. Cutler, *History of the State of Kansas: Dickinson County.* (Chicago: A. T. Andreas, 1883).

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# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 5

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

stock-raising rural community.¹⁰ Typical of small towns throughout Kansas, it served as a trading and shipping point for the surrounding agricultural area. As a result, the fords and bridges that provided farmers in the area with access to local markets were critical to the survival of the regional economy.

According to Kansas Department of Transportation records, the Canton Bridge Company of Canton, Ohio, a prolific out-of-state bridge builder in Kansas, built the Chapman Creek Pratt Truss Bridge in 1905. Markings on the structural members indicate that the Canton Bridge Company purchased the stock metal from Jones & Laughlin Steel Corporation of Pittsburgh, Pennsylvania. No further construction history has presently been located.¹¹

The Canton Bridge Company of Canton, Ohio advertised in *Engineering Record* as early as 1876 and was incorporated in 1891.¹² The executives in 1891 included W. E. Sherlock, President; V. H. Hammond, Vice President; and C. E. Timkler, Chief Engineer.¹³ The Massillion Steel Joist Company of Massillion, Ohio purchased the company in 1925 and the two companies were merged into Macomber Steel Company in 1927.

¹⁰ WPA Guide to 1930s Kansas. (Lawrence: University of Kansas Press, 1984), 353.

¹¹ Inquiry into the Dickinson County Road and Bridge records, Kansas Department of Transportation records, Kansas State Historical Society archives, Dickinson County Historical Society, and *Western Contractor* revealed no further construction history specific to the Chapman Creek Pratt Truss Bridge.

¹² Jochims, West Sappa Creek Lattice Bridge.

¹³ Ibid. It is likely that V. H. Hammond is a relation of D. Hammond of Wrought Iron Bridge Company in Canton, Ohio.

United States Department of the Interior National Park Service

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 9 Page 6

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

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# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 10 Page 7

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

# **GEOGRAPHICAL DATA**

## **Verbal Boundary Description:**

Located on the line between the SE ¼ of Section 13, Township 12S, Range 3E and the SW ¼ of Section 18, Township 12S, Range 4E, the Chapman Creek Pratt Truss Bridge encompasses an area measuring approximately 138 feet by 16 feet. The northwest corner of this area corresponds to the northwest corner of the bridge.

# **Boundary Justification:**

The boundary includes the truss, deck, abutments, and associated approaches that represent the significant features associated with the bridge structure.

United States Department of the Interior National Park Service

# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section - Photographic Documentation Page 8

Chapman Creek Pratt Truss Bridge Dickinson County, Kansas

# **PHOTO LOG**

Photographer:Kerry DavisDate of Photographs:February 2002Location of Original Negative:Kansas State Historical Society, Topeka, Kansas

Photograph Number	Camera View	
1.	View NW, bridge truss and roadway	
2.	View NE, bridge truss and roadway	
3.	View SW, bridge understructure, south piers, and abutment	
4.	View NW, bridge understructure	
5.	View NW, north bearing detail	
6.	View W, maker mark detail	
7.	View N, portal and upper node detail	
8.	View NW, north approach span	



