United States Department of the Interior National Park Service

137 -0000 -0046

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in Guidelines for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries. 1. Name of Property West Sappa Creek Lattice historic name other names/site number West Sappa Creek Lattice 2. Location On unimproved county road 4 miles north & .2 miles west of intersection F.A.S. 1970 & F.A.S. ___not for publication on unmarked county road street & number vicinity city, town Norton zip code67654 code 57 KS Kansas code county Norton state 3. Classification Number of Resources within Property Category of Property Ownership of Property Noncontributing Contributing building(s) private buildings district x public-local siles site public-State structures x structure nublic-Federal objects object Total Number of contributing resources previously Name of related multiple property listing: Metal Truss Bridges in Kansas listed in the National Register ____0 4. State/Federal Agency Certification As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR P In my opinion, the property I meets does not meet the National Register criteria. See continuation sheet. Signature of certifying official State or Federal agency and bureau In my opinion, the property meets does not meet the National Register criteria. See continuation sheet. Date Signature of commenting or other official State or Federal agency and bureau 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:) _ Date of A Signature of the Keeper

6. Function or Use	· · · · · · · · · · · · · · · · · · ·				
Historic Functions (enter categories from instructions)	Current Functions (enter categories from instructions)				
Transportation: Road RElated (Vehicular): Bridge	Transportation: Road Related Vehicular: Bridge				
7. Description					
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)				
	foundation				
Other: Lattice Pony Truss	walls				
	other Metal: Wrought Trop or Steel				
·					

Describe present and historic physical appearance.

The West Sappa Creek bridge, erected ca. 1900, is a lattice girder of rivited construction. The single span is 38 1/2 feet long and 15 1/2 feet wide. The concrete deck rises 3 feet above the bottom of the stream channel. The bridge is located at a slight bend of the road and sits on a slight northeast-southwest alignment. This is often true with early bridges as this misalignment allowed a right angle approach to the river and a saving of money in both bridge length and amount of fill required.

The members of a truss bridge are designated either as chord members or web members. Chord members are those mainly defining the outlines of the structure and they are termed lower or upper chord members depending on whether they are found at the bottom or the top of the structure. between the chords are web members. They are called posts or ties if they sustain compression or tension respectively. In the instance of the West Sappa Creek bridge, the chords and endposts are fabricated from angle stock rivited to a top cover plate. A bar lattice is used to form the two respective panels, which become a strong and stiff web. No external sway bracing is used in this particular design. Iron eye bars are wrapped around and over the top chord and attached to the bottom chord by the use of a pin. This consists of metal I beams suspended below the bottom chord at these pin connection points. Cast iron sunflowers form a decorative element on both panels. The road is very highly traveled and the bridge retains a high degree of structural integrity.

8. Statement of Significance	CONTRACTOR OF THE PERSON AND ADDRESS OF THE PERSON ADD		O					
Certifying official has considered the s	ignificance of the light in the		erty in i		o other properties:	:		
Applicable National Register Criteria	□А □В	区C						
Criteria Considerations (Exceptions)	□А □В	С			□F □G			
Areas of Significance (enter categories Engineering	from instructio	ns)		Period of Ca 190	f Significance		Significant Dates Ca 1900	
Transportation				CA 1900			Ca 1900	
				:		· .		
				Cultural	Affiliation N/A			
				majorque acomo diffici				
Significant Person					VBuilder Bridge Company	and the state of t		

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

The Town lattice truss was patented by Ithel Town in 1820. The closely spaced diagonal members created a stiff web that was quite strong. The early examples were constructed of wood, but by the late 19th century a few were constructed of metal, generally wrought iron.

No construction data has presently been located about the West Sappa Creek bridge. It was selected as a candidate in this nomination as it is a good example of late lattice truss design with good integrity. Approximately ten lattice pony trusses are known to exist in Kansas. All are approximately the same length of 36 feet. Eight of these ten bridges remain in Norton county.

The Canton Bridge Company, Canton, Ohio, was advertising in the Engineering Record, as early as 1876, but little is known about their early history. It was incorporated in 1891 by W. E. Sherlock, President, and V. H. Hammond, Vice President, and C. E. Timkler, Chief Engineer. It is possible that V. H. Hammond was a relative of Wrought Iron Bridge Company's D. Hammond. The company operated independently until 1925, when it was purchase by Massillion Steel Joist Company of Massillion, Ohio. In 1927 the two companies were merged into the Macomber Steel Company and the Canton Bridge Company name was dropped.

The Kansas Department of Transportation (KDOT) carried out a statewide inventory of historic bridges between 1980 and 1983. The bridges to be included were identified through computer printouts developed by KDOT, from information supplied by the counties (since almost all of the historic bridges were located on secondary rather than the primary road system), and by direct observation by field personnel. All bridges were inspected by KDOT personnel to verify the data on file. That information was jointly evaluated by representatives of KDOT, Kansas State Historical Society, and State Historic Preservation Officer.

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National Register of Historic Places Continuation Sheet

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Each structure was evaluated using a points rating system adapted from the points evaluation rating developed by the Ohio Department of Transportation and Ohio Historic Preservation Office. Consideration was given to areas such as age, builder, number of spans, length, special features, history, integrity, surviving numbers, and preservation potential.

In many instances there is little information about individual structures. Often bridge plaques which may have contained information have been removed, or the county's records are not complete or have been destroyed. Due to the large numbers of similar structures there is often little to choose from in differentiating among individual bridges other than condition and the likelihood of preservation.

The purpose of the KDOT study and subsequent evaluation was to identify a representative selection of bridges of each class. Through this approach KDOT and KSHS hope to preserve for posterity some examples of each type.

9. Major Bibliog	graphical References		***************************************
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ictor C. Da	rnell, <u>American Bridge Buildin</u>	<u>g companies</u> , wasnington,	DC:
Society	for Industrial Archeology Occ	asional Publication 4, 19	04.
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New Yor	k: Charles Schribner's Sons, l	980.	
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N.P.S.,	1987.		
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Researc	h Council, 1975.	<u></u>	
		See continuation sheet	
	ntation on file (NPS):		
preliminary de	termination of individual listing (36 CFR 67)	Primary location of additional data:	
has been requ		State historic preservation office	
	ed in the National Register	Other State agency	
	ermined eligible by the National Register	Federal agency	
	National Historic Landmark	Local government	
	historic American Bulldings	University	
Survey #		Other	
	listoric American Engineering	Specify repository:	
Record #		Kansas State Historical Society	
	The state of the s	•	
10. Geographic	cal Data		
Acrosso of propo	ny less than one acre		
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UTM References			
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clill	. , , , , D	,	
9 [Laurendan and La		
		See continuation sheet	
Verbal Boundary	Description		
he nominate	d property is located on the N	W 1/4, NW 1/4, NE 1/4, NE	1/4,
ection 11,	township 1 south, range 25 wes	t on a tract measuring 38	1/2' x
5 1/2' whos	e northeast corner is represen	ted by the northeast corn	er of
ne bridge.	Beginning at the northeast co	rner the boundary proceed	s
3 1/2' sout	hwest, 15 1/4' northwest, 100'	northeast, and 16 south	east to
he point of	beginning.	See continuation sheet	
	-		
Boundary Justific	eation		
he boundary	includes only that area that	is historically associate	d with
	d property.		
		See continuation sheet	
11. Form Prep	pared By		
name/title	Larry Jochims		
organization	Kansas State Historical Society	date <u>September 20, 1989</u>	
street & number		telephone <u>(913) 295-3251</u>	
city or town	Topeka		ode <u>66612</u>
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