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 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.

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1. Name of Property			
	River Route 5 Bridge		
other names/site number N/A			
		_	
2. Location			
street & number U.S. Rou	te 5 over Williams River		not for publication
city, town Rockingh		NAN	ricinity
state Vermont code	VT county Windham	n code 025	zip code 05101
	·		
3. Classification	<u> </u>		
Ownership of Property	Category of Property	Number of Resource	
private	building(s)	Contributing No	oncontributing
public-local	district		buildings
X public-State	site		sites
public-Federal	X structure	1	structures
	object		objects
		1	Total
Name of related multiple property listing			ng resources previously
<u>Metal Truss, Masonry, an</u>	<u>d Concrete</u> Bridges in Ve	ermontlisted in the National	Register
4. State/Federal Agency Certifica	ation		
As the designated authority under t			
National Register of Historic Places In my opinion, the property Amee Signature of certifying official State or Federal agency and bureau	and meets the procedural and pro	ofessional requirements set fo	rth in 36 CFR Part 60.
In my opinion, the property mee	ts does not meet the National	Register criteria. See conti	nuation sheet.
Signature of commenting or other official	l		Date
State or Federal agency and bureau			
5. National Park Service Certifica	ation		
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.	BUK	Swagl	11-14-91
removed from the National Registe other, (explain:)			
	√ Signature	of the Keeper	Date of Action

6. Function or Use			
Historic Functions (enter categories from instructions) Transportation/Road Related	Current Functions (enter categories from instructions) Transportation/Road Related		
· · · · · · · · · · · · · · · · · · ·			
7. Description			
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)		
Other: Warren deck truss bridge	foundation <u>concrete</u> walls		
	roof		
	other <u>steel</u>		
Describe present and historic physical appearance			

Describe present and historic physical appearance.

See continuation sheet for text.

8. Statement of Significance		
Certifying official has considered the significance of this property	in relation to other properties: atewide locally	
Applicable National Register Criteria XA BXC	a	
Criteria Considerations (Exceptions)	D DE F G	
Areas of Significance (enter categories from instructions) Engineering Transportation	Period of Significance 1929	Significant Dates 1929
	Cultural AffiliationN/A	
Significant Person N/A	Architect/Builder Unknown	

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

See continuation sheet for text.

Rockingham Historic Sites and Structures So for Historic Preservation, Montpelier, V	
Previous documentation on file (NPS):	See continuation sheet
preliminary determination of individual listing (36 CFR 67)	Primary location of additional data:
has been requested	X State historic preservation office
previously listed in the National Register	Other State agency
previously determined eligible by the National Register	Federal agency
designated a National Historic Landmark	Local government
recorded by Historic American Buildings Survey #	University Other
recorded by Historic American Engineering	Specify repository:
Record #	opoury repeatery.
10. Geographical Data	
Acreage of property <u>less than one acre</u>	
UTM References A 1 8 7 0 6 4 2 0 4 7 8 4 0 0 0 Zone Easting Northing C	Zone Easting Northing
	See continuation sheet
Verbal Boundary Description	
The boundary for this property is the bri carries U.S. Route 5 over the Williams Ri the UTM reference point: 18/ 706420/ 4784	ver in the town of Rockingham at
	See continuation sheet
Boundary Justification	
This boundary includes all the land histo	rically associated with the bridge.
	See continuation sheet
11. Form Prepared By	
name/title Michele Praught organization UVM Historic Preservation Program	date April 15, 1991
organization <u>UVM Historic Preservation Program</u> street & number <u>Wheeler House</u>	telephone (802) 656-3180
city or town Burlington	state Vermont zip code 05405
	510.10 21p 5545

9. Major Bibliographical References

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Williams River Route 5 Bridge Rockingham, Vermont

Located on U.S. Route 5, in the town of Rockingham, Windham County, Vermont, this steel Warren deck truss bridge with riveted construction was built in 1929 for vehicular traffic and stretches some 250 feet across the Williams River. Primarily surrounded by a residential and commercial area, it is located approximately two miles north of the junction of routes 103 and 5, and served as a primary north/south connector before the construction of Interstate 91, which parallels the bridge approximately 1/3 mile to the west.

The RT. 5 Williams River Bridge is a representative example of one of the metal truss bridges constructed following Vermont's monumental 1927 flood. Through the use of standard design and economical construction techniques, the rapid replacement of Vermont's bridges was made possible. Relatively unaltered, the bridge retains its integrity in all respects.

The three-span two-lane bridge is 24' wide and rises 24' above the river below. The 137'long deck truss with individual truss depths of 15' is supported by two 56' approach spans at either end. The upper chord and end diagonals of the spans consist of a box girder with a latticed top and bottom. The lower chord is made up of paired channels with stay plates placed about 3' apart. The vertical and diagonals of the truss are made of rolled I-beams. Full- depth crossed angles form the sway bracing, crossed bracing at the angle tops and bottoms and the I-beam lattice girder form the bottom struts. The bridge incorporates a concrete slab floor and curb with railings atop rolled steel floor I-beams. The guard rail is made of angles and channels with a latticed upper railing supported by T-section stanchions.

Each of the 56' x 24' approach spans is composed of two I-section plate-girders with angle stiffeners in the web and internal angle-section cross-bracing. The bridge is supported by two oblong, poured concrete piers which have a rusticated effect. The pier to the south is recessed in an embankment. The pier to the north at rivers edge was re-poured in 1971.

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Williams River Route 5 Bridge Rockingham, Vermont

The Williams River Route 5 Bridge is being nominated to the National Register under the Multiple Property Submission for Metal Truss, Masonry, and Concrete Bridges in Vermont. The bridge is an excellent example of a deck truss bridge. The bridge retains its original function and siting, is relatively unaltered, and meets all the necessary registration requirements for the property type of metal truss bridges. It is significant for its contribution to bridge engineering and construction, as well as being one of only four Warren deck truss bridges built during the reconstruction period, two of which are already listed on the National Register; the Gilead Brook Bridge, Bethel, VT. (10/1/90) and the Ottauquechee River Bridge, Hartland, VT. (10/1/90). The nearly identical (excepting for the number and size of approach spans) RT 5. Williams River Bridge attests to the simplicity and standardization of Warren deck truss design. The structure retains its integrity in all respects.

Spanning some 250' across the Williams River, the RT. 5 Williams River Bridge in the town of Rockingham, Windham County, Vermont is an integral part of eastern Vermont's major route, U.S. Route 5. Built in 1929, this bridge is a representative example of one of the many metal truss bridges constructed following Vermont's devastating 1927 flood. The flood, in which no part of Vermont escaped serious damage, was a monumental event in Vermont's 20th century history. The bridge reconstruction program that followed marks a particularly remarkable period of bridge engineering and assembly and was largely responsible for putting Vermont at the forefront of bridge technology and design. Using standardization in construction and design the state of Vermont was able to replace some 1200 destroyed bridges, within a relatively short period of time.

Deck trusses were favored for several reasons. First, they allowed an unobstructed roadway for greater overhead clearance. Additionally, due to the fact that Warren trusses extended well below the deck of the roadway, the expense of building tall piers and abutments was minimized. Deck truss designs such as this one, which require greater underneath clearance, were usually selected where the natural elevation of the roadway made it feasible.

The Warren deck truss with its simple and compact design of diagonal members, rolled I-beams, and on-site riveting assembly was extremely popular and tremendously versatile. The use of the Warren deck truss became standard in its application for the longest spans of 50'-400' built during the 1928-1930 reconstruction period and in fact, continues to be used by bridge engineers today.

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PROPERTY OWNER

Agency of Transportation State of Vermont Attn: William Sargent Montpelier, Vermont 05602