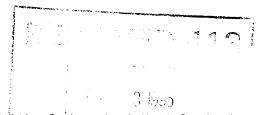
United States Department of the Interior National Park Service

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 entering the information, 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 procession of the instruction of the instructions and items.

storic nameRice Farm Road Brid	dge	
her names/site number Highway 62 Br	idge	
Location		<u> </u>
reet & number <u>Town Highway 62</u>		NZAnot for publication
ty or townDummerston		NA vicinity
ate <u>Vermont</u> code <u>V</u>	T county Windham	code <u>025</u> zip code <u>05301</u>
State/Federal Agency Certification		
Mahmud Signature of certifying official/Title Vermont State Historic Pres State of Federal agency and bureau In my opinion, the property meets doe comments.)	ee continuation sheet for additional comme Ligi <u>old Specialid</u> September 29 Date servation Office	ents.) 9, 1995
Signature of commenting official/Title	Date	
State or Federal agency and bureau		
	Signature of the Keeper	Date of Actio

Windham County, Vermont County and State

5. Classification				
Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)	Number of Res (Do not include pre	sources within Property eviously listed resources in the	count.)
☐ private ☐ public-local	☐ building(s)☐ district	Contributing	Noncontributing	
☐ public-State ☐ public-Federal	□ site ☑ structure			•
E pasio i cacia.	☐ object			
	•			objects
		1		Total
Name of related multiple property is not part	roperty listing of a multiple property listing.)	Number of cor in the National	ntributing resources pre Register	viously listed
	, Masonry, and Concrete	0		
Bridges in Vermont 6. Function or Use				
Historic Functions (Enter categories from instructions)		Current Function (Enter categories from		
Transportation/Road-Related: vehicular		Transportati	on/Road-Related: ve	ehicular
	<u> </u>			
7. Description				
Architectural Classification (Enter categories from instructions)		Materials (Enter categories from	instructions)	
Other: Warren Throug	h Truss Bridge	foundationgra	nnite —————————	
	•	otheroth	ner	

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

NPS Form 10-900-a (6-86) OMB Approval No. 1024-0018

United States Department of the Interior National Park Service

National Register of Historic Places Continuation Sheet

			Rice Farm Road Bridge
Section number	7	Page1	Dummerston, Windam, Co., Vermont

Carrying Rice Farm Road (Town Highway 62) across the West River, two miles south of Dummerston, Vermont is a rare, intact quadruple intersection Warren (Hilton) throughtruss bridge, built by the Berlin Iron Bridge Company and dating to 1892. The 14.2 foot wide single span stretches 198 feet in sixteen panels across the river 24 feet below, and has a portal clearance of 21.4 feet. The Hilton Truss, known for its rigidity and impact resistance, remains in its original location on abutments which appear to be constructed of granite quarry scraps, and retains its integrity of location, design, materials, workmanship, feeling and association.

Within sight of the quarry it was built to serve, this riveted, Hilton through-truss with a northeast-southwest orientation, carries a single lane across the West River. The top chord is a 9 inch by 14 inch box-girder formed of angles and channels, with stay plates on the underside, every four feet. The top chords are joined by crossed pairs of angle section providing lateral bracing. The end posts are inclined and are identical in construction to the top chord box-girder. The portals themselves are braced with lattice between T-struts, and Tsection knee braces. The bottoms of the end posts are reinforced with channel sections. The main diagonals and hip verticals are paired angles joined by stay plates spaced 60 inches on center. The hip vertical and the first two diagonals originate from the top chord hitch plates. The reverse diagonals are paired angles joined by lattice bars. The bottom chords are paired, 12 inch deep, built-up channels with stay plates 72 inches on center. The bottom chords carry a floor system of rolled I-section floor beams spaced approximately 18 inches on center, and they in turn carry a steel grill deck. On the bottom of the lower chords, angle-section lateral bracing similar to the top chord bracing adds rigidity. Guardrails on each side of the bridge are bolted to the trusses. These are composed of a square tubing top rail supported by square tube stanchions, a fender rail about 10 inches wide, and a wheel guard welded to the stanchions at deck level.

MICC	Larm	rious	,,,,,,,,,,	0	1.	110/200
Name of	Property	,			_	

County and State Name of Property

8. Sta	tement 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)	
		Engineering	
a	Property is associated with events that have made a significant contribution to the broad patterns of our history.	Transportation	
	Property is associated with the lives of persons significant in our past.		
(† (Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses nigh artistic values, or represents a significant and distinguishable entity whose components lack ndividual distinction.	Period of Significance	
	Property has yielded, or is likely to yield, nformation important in prehistory or history.		
	a Considerations x'' in all the boxes that apply.)	Significant Dates 1892	
Proper	ty is:		
	owned by a religious institution or used for religious purposes.		
□В≀	removed from its original location.	Significant Person (Complete if Criterion B is marked above) N/A	
□Са	a birthplace or grave.		
□ D a	a cemetery.	Cultural Affiliation N/A	
□ E a	a reconstructed building, object, or structure.		
□ F a	a commemorative property.		
	less than 50 years of age or achieved significance within the past 50 years.	Architect/Builder Berlin Iron Bridge Co.	
Narrat (Explain	ive Statement of Significance the significance of the property on one or more continuation sheets.)		
_	jor Bibliographical References		
	graphy books, articles, and other sources used in preparing this form on one	or more continuation sheets.)	
· ·	ous documentation on file (NPS):	Primary location of additional data:	
p	oreliminary determination of individual listing (36 CFR 67) has been requested previously listed in the National Register previously determined eligible by the National Register previously determined eligible eligible by the National Register previously determined eligible el	State Historic Preservation Office Other State agency Federal agency Local government University Other Name of repository:	
	Record #		

Name of Property	County and State
10. Geographical Data	
Acreage of Property less than one acre	
UTM References (Place additional UTM references on a continuation sheet.)	
1 1 8 6 9 4 8 0 0 4 7 5 4 0 6 0 Zone Easting Northing 2	3
Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.)	
Boundary Justification (Explain why the boundaries were selected on a continuation sheet.)	
11. Form Prepared By	
name/title <u>Eric Hanson, Historic Preservation Prog</u>	gram
organization <u>University of Vermont</u> , History Departme	ent date <u>7/31/94</u>
street & number <u>Wheeler House</u>	telephone(802) 656-3180
city or town Burlington	state <u>Vermont</u> zip code <u>05405</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	erty's location.
A Sketch map for historic districts and properties having la	arge acreage or numerous resources.
Photographs	
Representative black and white photographs of the proper	erty.
Additional items (Check with the SHPO or FPO for any additional items)	
Property Owner	
(Complete this item at the request of SHPO or FPO.)	-
nameTown of Dummerston	
	telephone
city or town Putney	state Vermont zip code 05346

Rice Farm Road Bridge

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.

Windham County, Vermont

NPS Form 10-900-a OMB Approval No. 1024-0018

United States Department of the Interior National Park Service

National Register of Historic Places Continuation Sheet

		Rice Farm Road Bridge
Section number8	Page1	Dummerston, Windam Co., Vermont

Built in 1892, the Hilton Through Truss bridge, which bears Rice Farm Road across the West River, south of Dummerston, Vt., is one of the oldest metal truss bridges in Vermont. It is submitted as part of Multiple Property Documentation Form: Metal Truss, Masonry and Concrete Bridges in Vermont as a metal truss bridge property type, and carries state-wide significance under National Register criterion A and C. The bridge is highly significant because it displays a rare use of railroad engineering to meet a unique road-building situation; carrying carts laden with quarried granite across the White River. Further, it is a rare survivor of the flood of 1927, which destroyed some 1200 bridges state-wide, and therefore was not a part of the post-diluvian standardization movement in bridge construction, which characterized the rebuilding campaign. Finally, It was constructed by one of the largest bridge builders in New England and at the time was notable for its innovative design, length and construction methods.

The bridge is significant under Criteria A as a part of Vermont's growing road network in the late 19th century. The creation of modern roads was instrumental in the growth of both local and nation-wide trade and commerce in what had long been a commercially isolated state. Specifically, this bridge was built to serve the George E. Lyon Granite Company. The company produced one of Vermont's most famous and celebrated products, and the bridge was built during a particulary innovative and prosperous time, when new equipment was making possible the quarrying of single stones of previously unmanageable sizes.

The bridge is significant under Criteria C because of both its unique structural design, and the status of its manufacturer. The Hilton Truss, a quadruple intersection Warren Truss, uses a multiple intersection design developed for railway use. Although the Hilton Truss was criticized for being excessive in its use of materials and for the inability to accurately measure the load limits of its design, the extra diagonals added rigidity and impact resistance. The

United States Department of the Interior National Park Service

National Register of Historic Places Continuation Sheet

				Rice Faill Road Blidg
Section number	8	Page	2	Dummerston, Windam Co., Vermon

configuration of closely spaced crossbeams resting directly on the lower chord was devised to support heavy moving loads such as trains. All of these factors made the design stable and long-wearing. The traits which made the Hilton truss suitable for railroads, also made it suitable for supporting the large granite blocks that Lyon's was shipping. Finally, the bridge is an early example of the use of riveting in bridge building.

The Berlin Iron Bridge Co. which, until 1900 was the largest bridge builder in New England. The span is an unusual example of a riveted bridge by the Berlin Iron Bridge Company which was best known for its lenticular pinned trusses. Such an example by the Berlin company is also significant, because in 1900 the company was acquired by the American Bridge Co. whose nation-wide operations would make riveted bridges the standard of the day. Finally, the bridge was long for its time, and was considered important enough to be included in the Berlin Iron Bridge Co. catalog of 1892.

United States Department of the InteriorNational Park Service

National Register of Historic Places Continuation Sheet

		Rice Farm Road Bridge
Section number10	Page1	Dummerston, Windam Co. Vermont
·		

Verbal Boundary Description

The boundary for this property is the bridge and its abutments. The Bridge carries Rice Farm Road (Town Highway 62) across the West River south of the town of Dummerston, Vt. at UTM reference point: 18/594800 / 4754060. The bridge is 198 feet long and 14.2 feet wide.

Boundary Justification

The boundary includes all the land historically associated with the bridge.