

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

PH0689289

FOR NPS USE ONLY	
RECEIVED	NOV 6 1978
DATE ENTERED	DEC 28 1978

**NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY -- NOMINATION FORM**

SEE INSTRUCTIONS IN *HOW TO COMPLETE NATIONAL REGISTER FORMS*  
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

**1 NAME**

HISTORIC

Crum Road Bridge

AND/OR COMMON

**LOCATION**

*E of Walkersville*

STREET & NUMBER

Crum Road over Israel's Creek

NOT FOR PUBLICATION

CITY, TOWN

Walkersville

VICINITY OF

CONGRESSIONAL DISTRICT

Sixth

STATE

Maryland

CODE

24

COUNTY

Frederick

CODE

021

**CLASSIFICATION**

**CATEGORY**

- DISTRICT
- BUILDING(S)
- STRUCTURE
- SITE
- OBJECT

**OWNERSHIP**

- PUBLIC
- PRIVATE
- BOTH
- PUBLIC ACQUISITION**
- IN PROCESS
- BEING CONSIDERED

**STATUS**

- OCCUPIED
- UNOCCUPIED
- WORK IN PROGRESS
- ACCESSIBLE**
- YES: RESTRICTED
- YES: UNRESTRICTED
- NO

**PRESENT USE**

- AGRICULTURE
- COMMERICAL
- EDUCATIONAL
- ENTERTAINMENT
- GOVERNMENT
- INDUSTRIAL
- MILITARY
- MUSEUM
- PARK
- PRIVATE RESIDENCE
- RELIGIOUS
- SCIENTIFIC
- TRANSPORTATION
- OTHER:

**OWNER OF PROPERTY**

NAME The Board of County Commissioners of Frederick County, Maryland  
c/o William Fout, Roads Department Engineer

STREET & NUMBER

Winchester Hall

CITY, TOWN

Frederick

VICINITY OF

STATE

Maryland 21701

**LOCATION OF LEGAL DESCRIPTION**

COURTHOUSE,  
REGISTRY OF DEEDS, ETC.

Frederick County Roads Department (Bridge #2605)

STREET & NUMBER

Montevue Lane

CITY, TOWN

Frederick

STATE

Maryland 21701

**6 REPRESENTATION IN EXISTING SURVEYS**

TITLE

Historic American Engineering Record

DATE

Summer, 1977

FEDERAL  STATE  COUNTY  LOCAL

DEPOSITORY FOR  
SURVEY RECORDS

National Park Service

CITY, TOWN

Washington

STATE

D. C. 20240

# 7 DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input checked="" type="checkbox"/> EXCELLENT	<input type="checkbox"/> DETERIORATED	<input type="checkbox"/> UNALTERED	<input checked="" type="checkbox"/> ORIGINAL SITE
<input type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input checked="" type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED      DATE _____
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		

---

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Crum Road Bridge spans Israel Creek southeast of Walkersville, Frederick County, Maryland on Crum Road.

The bridge is an iron bowstring pony truss bridge in a single span of 62 feet in length and 15.8 feet in width. It was built circa 1875, probably by the King Iron Bridge Company of Cleveland, Ohio. The structure is set on two replacement reinforced cement abutments. The bridge has been recently refurbished with a new plank flooring and coat of paint. The bridge is almost identical to the Detour Bridge, which was recently moved from its location across the Monocacy River to Catoctin Mountain National Park to be used as a foot bridge.

The Crum Road Bridge is one of only two iron bow string bridges still being used for traffic in Frederick County. The Crum Road Bridge differs from Bennies Hill Bridge in size and construction of its members. Both are tied arches with diagonals serving as bracing and verticals supporting the deck. The Crum Road Bridge is smaller in size than Bennies Hill Bridge.

# 8 SIGNIFICANCE

PERIOD	AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW				
<input type="checkbox"/> PREHISTORIC	<input type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION	
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE	
<input type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE	
<input type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN	
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input checked="" type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER	
<input checked="" type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input checked="" type="checkbox"/> TRANSPORTATION	
<input type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)	
		<input type="checkbox"/> INVENTION		industrial archeology	

SPECIFIC DATES      circa 1880      BUILDER/ARCHITECT      King Iron Bridge Company(?)

STATEMENT OF SIGNIFICANCE

The original patent for the bow string arch truss bridge was first registered in 1840 and was a popular structure until the late 19th century.

However, the Crum Road Bridge may be an example of Zenas King's patented Tubular Arch Bridge, a very popular design of the King Iron Bridge and Manufacturing Company, who probably constructed this bridge in the 1870's. Even in the heyday of iron truss bridges, bow string arch bridges were a rarity as evidenced by this quote from James Waddell's The Designing of Ordinary Iron Highway Bridges in reference to Pratt & Whipple Trusses: "at least ninety percent of all American iron highway bridges are built on these systems."<sup>1</sup>

There are some forty iron truss bridges still in existence in Frederick County, Maryland. But with increasing development in the area many of these will have to be destroyed because of additional tonnage requirements demanded of highway structures. Since iron truss bridges portray an important step in bridge engineering design it is imperative that some examples such as the Crum Road Bridge remain in the American landscape.

<sup>1</sup> James A. L. Waddell, The Designing of Ordinary Iron Highway Bridges (New York: John Wiley & Sons, Inc., 1891-5th ed.), p. IV.

# 9 MAJOR BIBLIOGRAPHICAL REFERENCES

SEE CONTINUATION SHEET #1.

## 10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY 112' x 50'

UTM REFERENCES

A 

1	8
---	---

2	9	9	8	0	0
---	---	---	---	---	---

4	3	7	2	3	8	0
---	---	---	---	---	---	---

          ZONE      EASTING          NORTHING

B 

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

          ZONE      EASTING          NORTHING

C 

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

          ZONE      EASTING          NORTHING

D 

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

          ZONE      EASTING          NORTHING

VERBAL BOUNDARY DESCRIPTION

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE

## 11 FORM PREPARED BY

1 km

NAME / TITLE

Cherilyn Widell

ORGANIZATION

Frederick County Historic Preservation

DATE

January 19, 1978

STREET & NUMBER

Winchester Hall; 12 East Church Street

TELEPHONE

(301) 663-8300

CITY OR TOWN

Frederick

STATE

Maryland 21701

## 12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION

THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS:

NATIONAL

STATE

LOCAL

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

*J. Mitchell*

10-30-78

TITLE

STATE HISTORIC PRESERVATION OFFICER

DATE

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

*Charles W. Johnson*

DATE

12-28-78

DIRECTOR, OFFICE OF ARCHITECTURE AND HISTORIC PRESERVATION

ATTEST:

*Joseph L. Turner*

KEEPER OF THE NATIONAL REGISTER

DATE

12-28-78

KEEPER OF THE NATIONAL REGISTER

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

**NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY -- NOMINATION FORM**

FOR NPS USE ONLY	
RECEIVED	NOV 6 1978
DATE ENTERED	DEC 28 1978

Crum Road Bridge  
Frederick County  
Maryland

CONTINUATION SHEET

ITEM NUMBER

9

PAGE 1

MAJOR BIBLIOGRAPHICAL REFERENCES

Deibler, Dan. Metal Truss Bridges in Virginia, 1865-1932. Vol. I.  
Virginia Highway and Transportation Research Council, 1975.

Jackson, Donald. "Railroads, truss bridges and the rise of the civil engineer."  
Civil Engineering (October, 1977), 97-101.

Meeting minutes of the Frederick County Commissioners, 1882-1889.

The Frederick Examiner, Wednesday, September 13, 1854.

# Walkersville Quad

