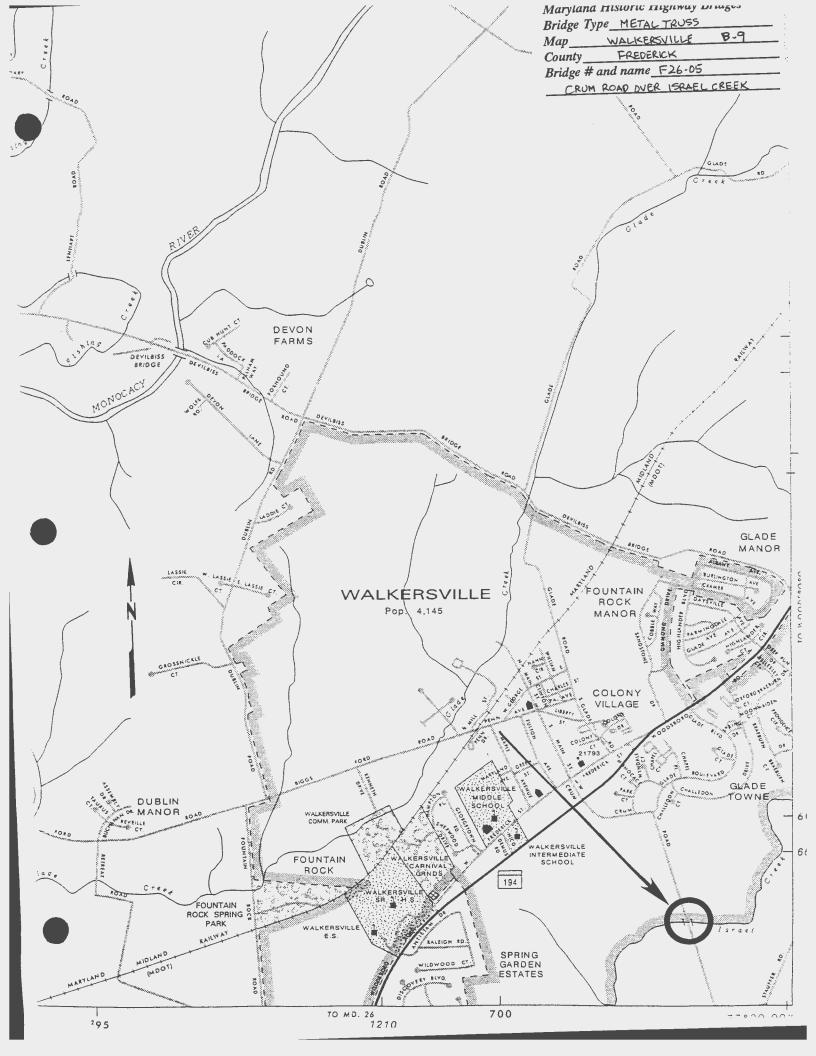
MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/ MARYLAND HISTORICAL TRUST

SHA Bridge No. F26-05 Bridge name Crum Road Bridge
LOCATION: Street/Road name and number [facility carried] formerly carried Crum Road over Israel's Creek
City/town Walkersville Vicinity X
County Frederick
This bridge projects over: Road Railway Water X (formerly) Land
Ownership: State CountyX Municipal Other
HISTORIC STATUS: Is the bridge located within a designated historic district? Yes NoX
Name of district
BRIDGE TYPE: Timber Bridge: Beam Bridge: Truss -Covered Trestle Timber-And-Concrete
Metal Truss Bridge X
Movable Bridge: Swing Bascule Single Leaf Bascule Multiple Leaf Vertical Lift Retractile Pontoon
Metal Girder : Rolled Girder Concrete Encased Plate Girder : Plate Girder Concrete Encased : P
Metal Suspension
Metal Arch
Metal Cantilever
Concrete: Concrete Arch Concrete Slab Concrete Beam Rigid Frame Other Type Name

DESCRI	PTION:		
Setting:	Urban	Small town	Rural
Describe	Setting:		
runs nor	th/south and Israel Cre	eek flows east/west. The nticipates re-using the structure.	Creek in Frederick County. Crum Road bridge has been disassembled and is cture in Ballenger Creek Park, however,
Describe	Superstructure and Su	bstructure:	
Iron Brid eight (8) compose (13.4 fee	dge Company of Clevelar panels with diagonal d of rolled beam stringer	nd, Ohio. It measures 19.2 endposts. All connection ers and floorbeams. It has is 4.8 meters (15.75 feet)	uss, constructed circa 1880 by the King meters (63 feet) in total length and has as are pinned and the floor system is a clear roadway width of 4.08 meters. The bridge previously had concrete
The Cru crossing	_	assembled and a new meta	al girder bridge was constructed at this
HISTOR	<u>Y:</u>		
WHEN v This dat Source o Other (s	vas the bridge built:c e is: Actual f date: Plaque Des pecify):	irca 1880 Estimassign plans SHA/Coun	ated X
SURVEY	OR/HISTORIAN ANAL	YSIS:	
A	- Events X - Engineering/architectu		s association with: Places on December 28, 1978.
SURVEY	OR:		
		arch 1998	
	surveyor Dave Dick		a 110 West Dood Towns MD 01004
Organiza			s, 110 West Road, Towson, MD 21204/ ke Ave, Suite 412, Baltimore, MD 21204
Phone n	umber (410) 296-1635		umber (410) 296-1670





F-8-2 1. Fale-05, Crum Road over Israel creek Frederick County, MD 1. Ryar McKay July 1497 , MD SHPO 1. South approach 3. 1 of 2



1. F-8-2 7. F24-05, Crum Road over Israel Greek 3. Frederick County, MD 1. Ryan mckay 5. July 1997 e. MD SHPO 7. East elevation 8. 2 of 2

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

The bridge is an iron bowstring pony truss bridge in a single span of 62 feet in length and 15.8 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 Dutour 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.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL FARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES

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	oad over Israel's Cre	ek	NO	T FOR PUBLICATION	
CITY, TOWN				NGRESSIONAL DISTRI	ICT
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Marvla		24	<u>_</u>	rederick	021
CLASSIFIC	ATION				
CATEGORY	OWNERSHIP	STATUS		PRESI	ENT USE
DISTRICT	X PUBLIC	_OCCUPIED	~	_AGRICULTURE	MUSEUM
BUILDING(S)	PR:VATE	UNOCCUPIED		COMMERCIAL	PARK
X_STRUCTURE	BQTH	WORK IN PROGRE	SS	EDUCATIONAL	PRIVATE RESIDEN
S:TE	PUBLIC ACQUISITION	ACCESSIBLE		ENTERTAINMENT	RELIGIOUS
OBJECT	IN PROCESS	YES: RESTRICTED		GOVERNMENT	SCIENTIFIC
	BEING CONSIDERED	X_YES: UNRESTRICT	ED	_INDUSTRIAL	XTRANSPORTATION
		NO		MILITARY	OTHER
OWNER OF	FPROPERTY				
c/o Wil	rd of Coun <mark>ty Commissic</mark> <u>liam Fout, Roads Depar</u>	oners of Freder tment Engineer	rick County	, Maryland	
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	Historic American	Engineering Re	cord		
DATE					
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SURVEY RECORDS	National Park Serv	1Ce			
CITY TOWN	Washington			STATE	40
	wasnington			D C 202	/LD

7 DESCRIPTION

CONDITION

CHECK ONE

CHECK ONE

LEXCELLENT __GOOD

__FAIR

__DETERIORATED

UNEXPOSED

__RUINS

_UNALTERED

X_ORIGINAL SITE

__MOVED

DATE____

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.

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PERICD	AF	REAS OF SIGNIFICANCE CH	IECK AND JUSTIFY BELOW	
PREHISTORIC 1400-1499 1500-1599 1600-1699 1700-1799 X_1800-1899 1900-	ARCHEOLOGY-PREHISTORICARCHEOLOGY-HISTORICAGRICULTUREARCHITECTUREASTCOMMERCECCMMUNICATIONS	COMMUNITY PLANNING CONSERVATION ECONOMICS EDUCATION XENGINEERING EXPLORATION/SETTLEMENT INDUSTRY INVENTION	LANDSCAPE ARCHITECTURE LAW LITERATURE MILITARY MUSIC PHILOSOPHY POLITICS/GOVERNMENT	RELIGIONSCIENCESCULPTURESOCIAL/HUMANITARIANTHEATER X_TRANSPORTATION X_OTHER (SPECIFY) industrial archeology
SPECIFIC DAT	es circa 1880	BUILDER/ARCH	HITECT King Iron Brid	

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."

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 land-scape.

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

SEE CONTINUATION SHEET #1.

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10 GEOGRA	APHICAL DATA				
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STREET & NUMBE	Frederick County Hi	Storic Pre	Servation	TELEPHO	ny 19, 1978 Na
	Winchester Hall; 12	East Chur	ch Street	(301)	663-8300
CITY OF TOWN		,		STATE	1 01701
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12 STATE H	IISTORIC PRESEI	RVATION	I OFFICE	R CERTIFICA	TION
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_	this property for inclusion in				
criteria and proce	dures set forth by the Nationa	l Park Service.			
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NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

Crum Road Bridge Frederick County CONTINUATION SHEET Maryland

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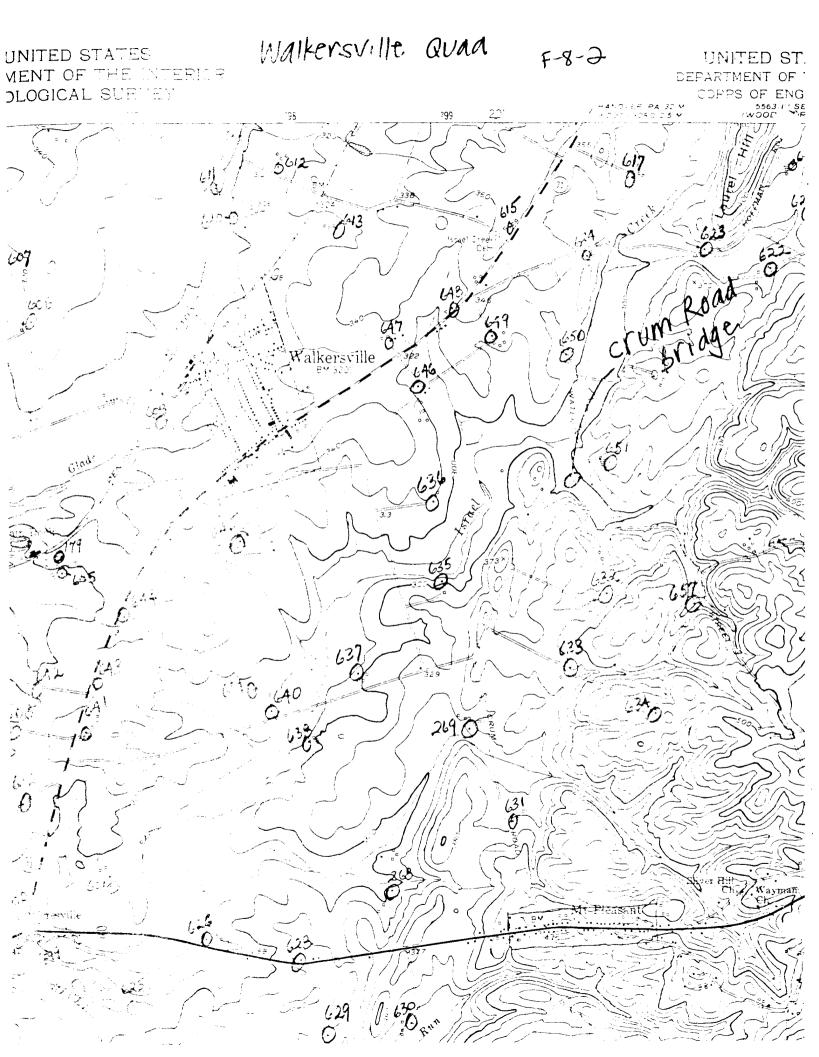
MAJOR BIBLIOGRAPHICAL REFERENCES

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." Sivil Engineering (October, 1977), 97-101.

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

The Frederick Examiner, Wednesday, September 13, 1854.





CRW 8/18 F-8-2 Crum Rol Bridge Chum Rol over ISRAel's Creek North Approach