

Maryland Historical Trust

Maryland Inventory of Historic Properties number: F-4-S

Name: Cross Rock Bridge

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

MARYLAND HISTORICAL TRUST	
Eligibility Recommended <input checked="" type="checkbox"/>	Eligibility Not Recommended <input type="checkbox"/>
Criteria: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	Considerations: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> None
Comments: _____	

Reviewer, OPS: <u>Anne E. Bruder</u>	Date: <u>3 April 2001</u>
Reviewer, NR Program: <u>Peter E. Kurtze</u>	Date: <u>3 April 2001</u>

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

MHT No. F-4-5

SHA Bridge No. F16-09 Bridge name Crow Rock Bridge

LOCATION:

Street/Road name and number [facility carried] Crow Rock Road over Middle Creek

City/town Ellerton Vicinity X

County Frederick

This bridge projects over: Road _____ Railway _____ Water X Land _____

Ownership: State _____ County X Municipal _____ Other _____

HISTORIC STATUS:

Is the bridge located within a designated historic district? Yes _____ No X

National Register-listed district _____ National Register-determined-eligible district _____

Locally-designated district _____ Other _____

Name of district _____

BRIDGE TYPE:

Timber Bridge _____:

Beam Bridge _____ Truss -Covered _____ Trestle _____ Timber-And-Concrete _____

Stone Arch Bridge _____

Metal Truss Bridge X

Movable Bridge _____:

Swing _____ Bascule Single Leaf _____ Bascule Multiple Leaf _____
Vertical Lift _____ Retractable _____ Pontoon _____

Metal Girder _____:

Rolled Girder _____ Rolled Girder Concrete Encased _____
Plate Girder _____ Plate Girder Concrete Encased _____

Metal Suspension _____

Metal Arch _____

Metal Cantilever _____

Concrete _____:

Concrete Arch _____ Concrete Slab _____ Concrete Beam _____ Rigid Frame _____
Other _____ Type Name _____

DESCRIPTION:

Setting: Urban _____ Small town _____ Rural X

Describe Setting:

Bridge No. F16-09 carries Crow Rock Road over Middle Creek in Frederick County. Crow Rock Road runs north/south and Middle Creek flows east/west. The bridge is located in the vicinity of Ellerton and is surrounded by lightly wooded areas and single family development.

Describe Superstructure and Substructure:

Bridge No. F16-09, constructed in 1897 by the Groton Bridge and Manufacturing Company of Groton, New York, is a single-span, iron Warren pony truss measuring 23.1 meters (76 feet) in total length. It has five (5) panels with diagonal endposts. The top chord is a built-up section of channels connected by cover plates; the bottom chord comprises eyebars connected by pins. The floor system has a timber deck with steel stringers and floorbeams. The clear roadway width is 3.9 meters (13 feet); the out-to-out width is 4.8 meters (16 feet). The structure has a metal railing. The abutments are stone, as are the wingwalls, and the structure has two (2) plaques; the first reads:

1897
Groton Bridge
& MFG. Co.
Groton N.Y.

The second reads:

1897
Wm. Morrison pres.
Frank G. House
Melville Cromwell
James H. Delanter

According to the 1997 inspection report, this structure was in excellent condition, following rehabilitation of the structure. In 1997, the structure was disassembled, rehabilitated off-site in Williamsport, Pennsylvania, and re-opened on-site in September 1997. The structure is posted for 13.5 tonnes (30,000 pounds) and has a sufficiency rating of 67.85.

Discuss Major Alterations:

According to the 1997 inspection report, the floor system was replaced, including the timber deck, steel stringers and floorbeams. In addition, a new railing was installed, the stone abutments and wingwalls were re-pointed and the truss was painted.

HISTORY:

WHEN was the bridge built: 1897
This date is: Actual X Estimated _____
Source of date: Plaque X Design plans _____ SHA/County bridge files/inspection form X Other (specify): _____

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have National Register significance for its association with:

A - Events X B- Person _____
C- Engineering/architectural character _____ X _____

The bridge was previously determined eligible for the National Register of Historic Places by the Maryland

F-4-5

Historical Trust.

SURVEYOR:

Date bridge recorded March 1998

Name of surveyor Dave Dick/Caroline Hall

Organization/Address Wallace Montgomery and Associates, 110 West Road, Towson, MD 21204/ P.A.C. Spero & Co., 40 W. Chesapeake Ave, Suite 412, Baltimore, MD 21204 **Phone number** (410) 296-1635

FAX number (410) 296-1670

Maryland Historic Highway Bridges

Bridge Type METAL TRUSS

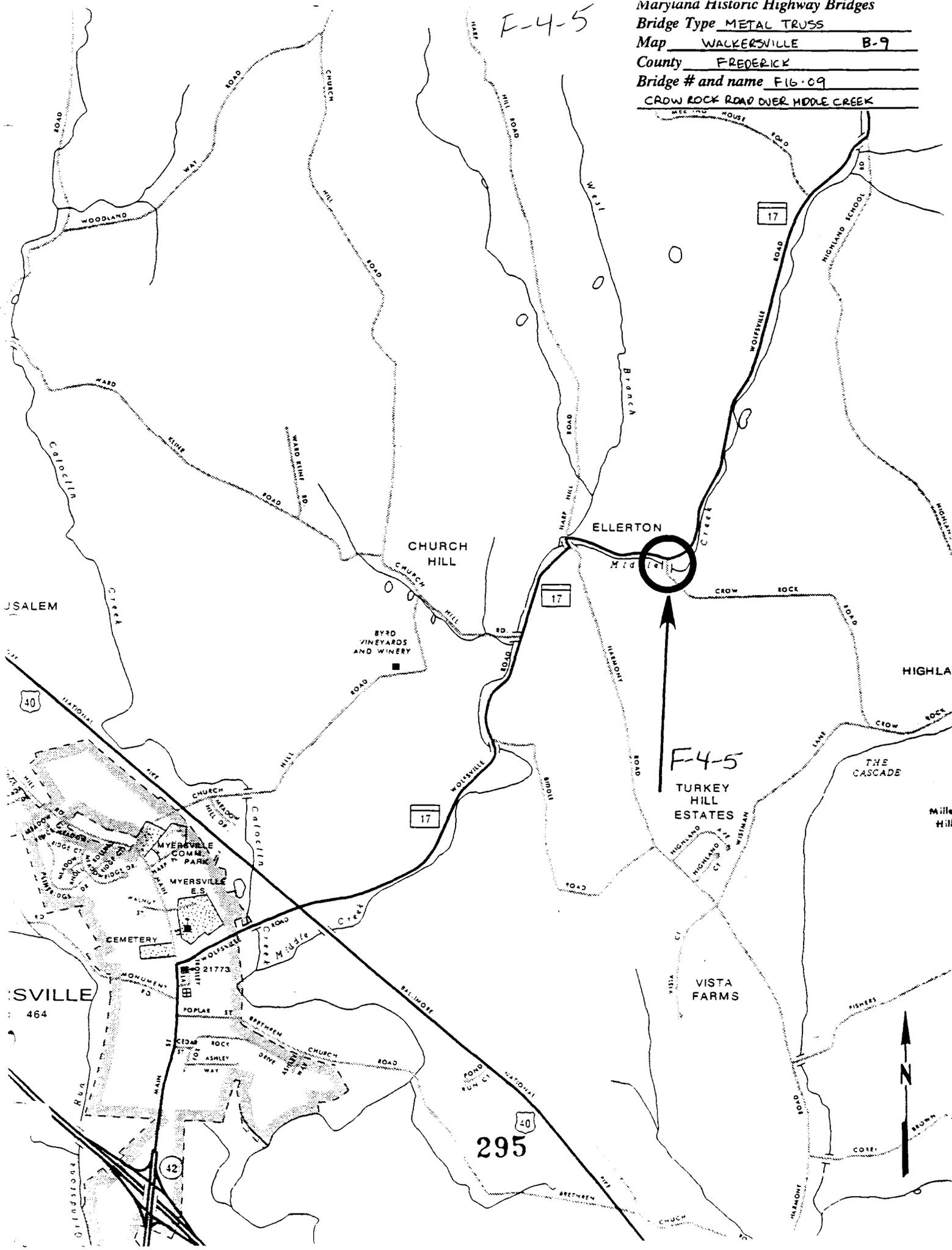
Map WALKERSVILLE B-9

County FREDERICK

Bridge # and name F16-09

CROW ROCK ROAD OVER MIDDLE CREEK

F-4-5



A black and white photograph of a narrow bridge crossing a road. The bridge has two white, lattice-structured support pillars. On the right side of the road, there is a rectangular sign with a white background and black text. The sign lists weight restrictions for single and combination units. The background shows bare trees and a house with a chimney.

RESTRICTED WEIGHT
SINGLE UNIT
30 000 LBS GVW
COMBINATION UNIT
30 000 LBS GCW



RESTRICTED WEIGHT

SINGLE UNIT
30,000 LBS GVW
COMBINATION UNIT
30,000 LBS GCW

1. F-4-5
2. FK6-09, Crow Rock Bridge
3. Frederick County, MD
4. Dave Dick, WJW & Assoc.
5. March 1998
6. MD SHPO
7. south approach, view north
8. 2 of 6



1. F-4-5
2. F16-09, Cow Rock Bridge
3. Frederick County, MD
4. Dave Dick, WPM & Associates
5. March 1993
6. MD SHPO
7. East elevation, view west
8. 3 of 6



1. F-4-5
2. FH6-09, Crow Rock Bridge
3. Frederick County, MD
4. Dave Dick, WM & Assoc.
5. March 1993
6. MD SHPO
7. west elevation, view east
8. 4 of 6

1897

GROTON BRIDGE
& M^{FG} C. Co.
GROTON, N.Y.

1. F-4-5
2. F16-09, Crow Rock Bridge
3. Frederick County, MD
4. Dave Dick, WPA & Assoc.
5. March 1998
6. MD SHPO
7. Bridge plaque, view west
8. 5 of 6

1897

WALTON S. S. CONYERS.
FRANK G. HOUSE
NEWFIELD, BROMFIELD CO.
JAMES E. DELANEY

1. F-4-5
2. F16-09, Crow Rock Bridge
3. Frederick County, MD
4. Dave Dick, WMA Assoc.
5. March 1998
6. MD SHPO
7. Bridge plaque, view east
8. 6 of 6

F-4-5

Crow Rock Bridge
Ellerton
Public

1897

The Crow Rock Road Bridge is a single span iron pony truss bridge of Pratt design sixteen feet wide, seventy-six feet in length with seven original stringers which spans Middle Creek. The name plate in the center of the north side states, "Built in 1897 by Groton Bridge & Manufacturing Company, Groton, New York." A plaque on the south side of the bridge lists the county commissioners for the year 1897. The Crow Rock Road Bridge is one of three bridges remaining in Frederick County known to have been built by the New York Company.

9300842

INDIVIDUAL PROPERTY/DISTRICT
MARYLAND HISTORICAL TRUST
INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Crow Rock Road Bridge Survey Number: F-4-5

Ellerker Vicinity

Project: Crow Rock Road over Middle Creek, Frederick Co. Agency: COE ?

Site visit by MHT Staff: no yes Name _____ Date _____

Eligibility recommended Eligibility not recommended

Criteria: A B C D Considerations: A B C D E F G None

Justification for decision: (Use continuation sheet if necessary and attach map)

The Crow Rock Road Bridge was constructed in 1897 by the Groton Bridge and Manufacturing Company. It is a single span iron pony truss bridge of Pratt design. Under Criteria A, the Crow Rock Road Bridge derives its significance from its association with the development of transportation in Frederick County. Metal truss bridges represent an important step in engineering design and a uniquely American achievement, the result of intensive experimentation in the 19th century. Relatively cheap and easy to build, these bridges were the most popular form of bridge construction in Frederick County between the 1870s and the 1930s. Large numbers were built to span small crossings, greatly facilitating vehicular movement and communication throughout the developing County. Frederick County once had scores of such bridges; however, as technology and use requirements have changed, they have been replaced at an increasing rate. According to information provided to the Maryland Historical Trust by Frederick County Department of Public Works, only 27 metal truss bridges remain on County roads. A number of these are currently slated for replacement. This bridge is particularly significant for having retained the plaques listing the manufacturer and the County commissioners for the year of 1897. The Crow Rock Road Bridge is the last remaining bridge constructed by the Groton Bridge and Manufacturing Company in the County. Two other Frederick County bridges constructed by the company were replaced in recent years. The Crow Rock Road Bridge is thus an increasingly rare example of the sort of modest structure once common throughout rural Maryland.

Documentation on the property/district is presented in: Project file and Maryland

Inventory Form F-4-5

Prepared by: Cherilyn Widell

Elizabeth Hannold May 6, 1993
Reviewer, Office of Preservation Services Date

NR program concurrence: yes no not applicable
Ronald L. Lovelace 5/6/93
Reviewer, NR program Date

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT

I. Geographic Region:

- Eastern Shore (all Eastern Shore counties, and Cecil)
- Western Shore (Anne Arundel, Calvert, Charles, Prince George's and St. Mary's)
- Piedmont (Baltimore City, Baltimore, Carroll, Frederick, Harford, Howard, Montgomery)
- Western Maryland (Allegany, Garrett and Washington)

II. Chronological/Developmental Periods:

- Paleo-Indian 10000-7500 B.C.
- Early Archaic 7500-6000 B.C.
- Middle Archaic 6000-4000 B.C.
- Late Archaic 4000-2000 B.C.
- Early Woodland 2000-500 B.C.
- Middle Woodland 500 B.C. - A.D. 900
- Late Woodland/Archaic A.D. 900-1600
- Contact and Settlement A.D. 1570-1750
- Rural Agrarian Intensification A.D. 1680-1815
- Agricultural-Industrial Transition A.D. 1815-1870
- Industrial/Urban Dominance A.D. 1870-1930
- Modern Period A.D. 1930-Present
- Unknown Period (prehistoric historic)

III. Prehistoric Period Themes:

- Subsistence
- Settlement
- Political
- Demographic
- Religion
- Technology
- Environmental Adaption

IV. Historic Period Themes:

- Agriculture
- Architecture, Landscape Architecture, and Community Planning
- Economic (Commercial and Industrial)
- Government/Law
- Military
- Religion
- Social/Educational/Cultural
- Transportation

V. Resource Type:

Category: Structure

Historic Environment: Rural

Historic Function(s) and Use(s): Transportation

Known Design Source: Groton Bridge and Manufacturing Company, Groton, N.Y.

INVENTORY FORM FOR STATE HISTORIC SITES SURVEY

1 NAME

HISTORIC Crow Rock Bridge

AND/OR COMMON

2 LOCATION

STREET & NUMBER Crow Rock Drive over Middle Creek

CITY, TOWN Ellerton

VICINITY OF

CONGRESSIONAL DISTRICT

E. D. 6

STATE

COUNTY

3 CLASSIFICATION

CATEGORY	OWNERSHIP	STATUS	PRESENT USE
<input type="checkbox"/> DISTRICT	<input checked="" type="checkbox"/> PUBLIC	<input type="checkbox"/> OCCUPIED	<input type="checkbox"/> AGRICULTURE <input type="checkbox"/> MUSEUM
<input type="checkbox"/> BUILDING(S)	<input type="checkbox"/> PRIVATE	<input type="checkbox"/> UNOCCUPIED	<input type="checkbox"/> COMMERCIAL <input type="checkbox"/> PARK
<input checked="" type="checkbox"/> STRUCTURE	<input type="checkbox"/> BOTH	<input type="checkbox"/> WORK IN PROGRESS	<input type="checkbox"/> EDUCATIONAL <input type="checkbox"/> PRIVATE RESIDENCE
<input type="checkbox"/> SITE	PUBLIC ACQUISITION	ACCESSIBLE	<input type="checkbox"/> ENTERTAINMENT <input type="checkbox"/> RELIGIOUS
<input type="checkbox"/> OBJECT	<input type="checkbox"/> IN PROCESS	<input checked="" type="checkbox"/> YES: RESTRICTED	<input type="checkbox"/> GOVERNMENT <input type="checkbox"/> SCIENTIFIC
	<input type="checkbox"/> BEING CONSIDERED	<input type="checkbox"/> YES: UNRESTRICTED	<input type="checkbox"/> INDUSTRIAL <input checked="" type="checkbox"/> TRANSPORTATION
		<input type="checkbox"/> NO	<input type="checkbox"/> MILITARY <input type="checkbox"/> OTHER

4 OWNER OF PROPERTY

NAME Frederick County Roads Department

Telephone #:

STREET & NUMBER Montevue Lane

CITY, TOWN Frederick

VICINITY OF

STATE, zip code Md 21701

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE, REGISTRY OF DEEDS, ETC.

Liber #:

Folio #:

STREET & NUMBER

CITY, TOWN

STATE

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

FEDERAL STATE COUNTY LOCAL

DEPOSITORY FOR SURVEY RECORDS

CITY, TOWN

STATE

F-4-5

7 DESCRIPTION

CONDITION

- EXCELLENT
- GOOD
- FAIR
- DETERIORATED
- RUINS
- UNEXPOSED

CHECK ONE

- UNALTERED
- ALTERED

CHECK ONE

- ORIGINAL SITE
- MOVED DATE _____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Crow Rock Road Bridge is a single span iron pony truss bridge of Pratt design which spans Middle Creek on Crow Rock Road near Ellerton, Maryland.

The single lane bridge which is set upon random stone abutments is 16 feet wide and 76 feet in length with 7 original stringers. The original wood plank deck has been replaced; joints of the bridge are secured with pinned connections. The name plate in the center of the north side states, "Built in 1897 by Groton Bridge & Manufacturing Company, Groton, New York." A plaque on the south side of the bridge lists the county commissioners for the year 1897. Half hip end posts are at either end of the bridge.

CONTINUE ON SEPARATE SHEET IF NECESSARY

F-4-5

9 MAJOR BIBLIOGRAPHICAL REFERENCES

Deibler, Dan. Metal Truss Bridges in Va. 1865-1932. Va. Highway and Transportatic Research Council, 1975.

CONTINUE ON SEPARATE SHEET IF NECESSARY

10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY _____

VERBAL BOUNDARY DESCRIPTION

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

STATE COUNTY

STATE COUNTY

11 FORM PREPARED BY

NAME / TITLE

Cherilyn Widell, Site Analyst, 8/77

ORGANIZATION

Frederick County Office of Historic Preservation

DATE

STREET & NUMBER

Winchester Hall East Church Street

TELEPHONE

301-663-8300 ext.266

CITY OR TOWN

Frederick

STATE

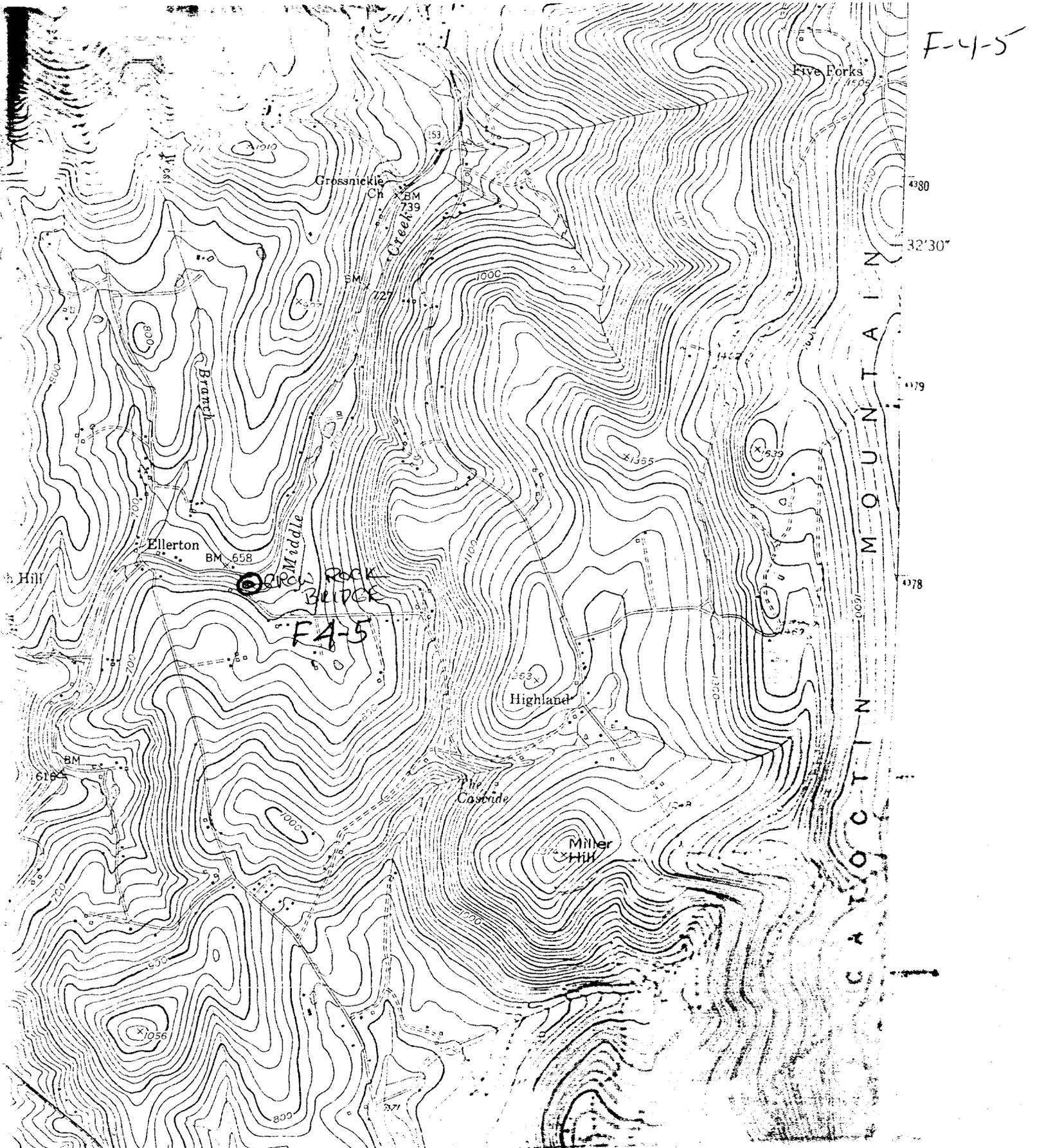
Maryland 21701

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature, to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 Supplement.

The Survey and Inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

RETURN TO: Maryland Historical Trust
The Shaw House, 21 State Circle
Annapolis, Maryland 21401
(301) 267-1438

F-4-5



C A T O C C I N M O U N T A I N

32°30' 282

MYERSVILLE QUADRANGLE

1 MILE
 7000 FEET
 1 KILOMETER

4380
32°30'
4179
4178

Five Forks 7509

Grossnickle Ch

Ellerton

Highland

Miller Hill

The Costride

Branch

Middle

ROCK BRIDGE

F-4-5

h Hill



F-4-5

1-6

Frederick Co (16-09)
JOB NAME: Crow Rock Rd/Br. Align Sty.
JOB # 92189-02
DATE: 1-7-93 BY: MAC
ROLL # 1 EXP. 6

DESCRIPTION: North Approach



F-4-5

1-7

Frederick Co (16-09)

JOB NAME: Crow Rock Rd / Br. Align Sty.

JOB # 92189-02

DATE: 1-7-93

BY: MAC

ROLL # 1

EXP. 7

DESCRIPTION: East Elevation

