Maryland Historical Trust

Maryland Inventory of Historic Properties Number: WA-I-28

Name: EAST OAK RIDGE DR. OVER ANTIETAM CREEK
W 4001

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 bridged received the following determination of eligibly.

MARYLAND HISTORICAL TRUST

Eligibility Recommended ___X___ Eligibility Not Recommended _____

Criteria: ____A ____B ____C ____D Considerations: ___A ___B ___C ___D ___E ___F ___G __None

Comments:_____

_____

_____

Reviewer, OPS:__Anne E. Bruder_____ Date:__3 April 2001_____

Reviewer, NR Program:_Peter E. Kurtze_____ Date:___3 April 2001_____

Maryland Inventory of Historic Properties **MHT No.** *WA-I-028*
Historic Bridge Inventory
Maryland State Highway Administration
Maryland Historical Trust

Name and SHA No. *Funkstown Bridge #2 (Shafer's Mill Bridge) (W4001)*
Location:
Street/Road Name and Number: *East Oak Ridge Drive over Antietam Creek*
City/Town: *Funkstown* ___vicinity
County: *Washington*

Ownership: __State _x_ County __Municipal __Other

This bridge projects over: __Road __Railway _x_ Water __Land

Is the bridge located within a designated district: __yes _x_ no
__NR listed district __NR determined eligible district
__locally designated __other
Name of District _____

Bridge Type:

__Timber Bridge
_Beam Bridge _Truss-Covered _Trestle _Timber-and-Concrete

_x_ Stone Arch

__Metal Truss Bridge

__Movable Bridge
_Swing _Bascule Single Leaf _Bascule Multiple Leaf
_Vertical Lift _Retractile _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 _____

WA-I-028

Description:

Describe Setting:

Funkstown Bridge #2, otherwise known as Shafer's Mill Bridge, carries East Oak Ridge Drive over Antietam Creek into Funkstown in a roughly west-east direction, with the roadway sloping slightly downward. Antietam Creek flows generally north-south at this location. The Funkstown Bridge #2 is slightly downstream from the Funkstown Turnpike Bridge, or the First Funkstown Bridge (see SHA #21018). The former site of Shafer's Mill is located to the southwest of the bridge and is capped by a parking lot for the Funkstown Volunteer Fire Department (Maryland archaeological site 18-WA-305).

Describe Superstructure and Substructure:
(Discuss points identified in Context Addendum, Section C)

This three-span stone arch bridge is constructed of coursed native limestone. It measures 109 feet in total length. The roadway is 16 feet, 8 inches wide and carries one lane of traffic. Each segmental arch is edged with precisely formed voussoirs, with no obvious keystone. Graduated in size, the widest arch is at the western end of the bridge and the narrowest at the east end. The arches measure 35 feet, 31 feet, and 20 feet wide, respectively. Parapets of the bridge reach an apex over the westernmost arch, and the wing walls flare sharply at angles from the line of the bridge. A significant feature of this particular bridge is the use of both rounded and pyramidal shaped piers on the downstream side of the bridge.

Discuss major alterations:

In 1983, major alterations to the bridge included removing and rebuilding the deteriorated portion of the abutment wall on the Funkstown end; removing and rebuilding the spandrel wall on the Funkstown end; breaking up the existing concrete flumes and providing a rip rap spillway through the structure; removing and replacing the existing concrete parapet completely on the left side and partially on the right side to meet the recent construction at the northwest abutment wall; repaving the roadway; and repointing the underside of the stone arch rings.

History:

When Built: *1833*
Why Built: *unknown*
Who Built: *George Weaver*
Who Designed: *unknown*
Why Altered: *stabilization of structure*
Was this bridge built as part of an organized bridge building campaign: *no*

Surveyor Analysis:

This bridge may have NR significance for association with:

x A Events _B Person
x C Engineering/Architectural Character

Was the bridge constructed in response to significant events in Maryland or local history?

As with many stone arch bridges in Washington County, the Funkstown Bridge #2 was erected near a mill site: Shafer's Mill (successively known as the Funkstown Manufacturing Company, Antietam Milling Company, and Antietam Manufacturing Company), which operated during the late 18th and 19th centuries. Milling and agriculture were the primary industries of the county. A large number of mills were built along significant waterways such as Antietam Creek and Conococheague Creek as well as near smaller tributaries. Many of the region's major roadways led to and serviced these mill sites, which also served as centers for trade and social meetings. Bridges such as the Funkstown Bridge #2 facilitated travel to and from these mills.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

With its key position in proximity to both a mill and a town center, the Funkstown Bridge #2 played an important role in stimulating transportation and commerce throughout the area. Its presence helped promote growth and development on both a local and regional level.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic and visual character of the possible district?

Funkstown Bridge #2 is located at the edge of Funkstown, which itself may be eligible for historic designation. If Funkstown were nominated as an historic district, the bridge would significantly add to both the historic and visual character of the possible district.

Is the bridge a significant example of its type?

The Funkstown Bridge #2 was the first stone arch bridge in Washington County to utilize pyramidal shaped piers. It is also unique in that its three arches escalate in size; with the narrowest arch at the low end of the bridge and the widest arch at the high end of the bridge. Both of these features make this bridge a significant example of its type.

Does the bridge retain integrity of the important elements described in the Context Addendum?

This bridge retains integrity of location, design, setting, materials, workmanship, feeling and association. Despite the minimal alterations discussed above, the Funkstown Bridge #2 still possesses integrity of nearly all of its original components, including the stone arch rings and barrels, spandrel walls, abutments, wing walls, and piers. In general, the bridge is in good to excellent condition.

Is the bridge a significant example of the work of the manufacturer, designer, and/or engineer and why?

The Funkstown Bridge #2 is the only proven example of a stone arch bridge built by George Weaver. For this reason, as well as for its unusual design, the bridge is potentially eligible under Criterion C.

Should this bridge be given further study before significance analysis is made and why?

The Funkstown Bridge #2 has been well documented in both written and photographic form. In 1975, it was included in a comprehensive survey of Washington County's stone arch bridges that culminated with the preparation of National Register nomination forms for the bridges. These nomination forms have never been submitted to the National Register. It is presently listed in the Maryland Historical Trust's Inventory. No further study is recommended.

Provide black and white prints and negatives and color slides of bridge, details, and setting labeled according to NR Bulletin 16A and Maryland Supplement to Bulletin 16A.

Provide a photocopy USGS map illustrating the location of the bridge.

Surveyor:
Name: Alice Crampton/Julie Abell **Date:** 11/15/94
Organization: Parsons Engineering-Science, Inc. **Telephone:** (703) 591-7575
Address: 10521 Rosehaven Street
Fairfax, Virginia 22030-2899

Copy 2

WA-I-028
District 10
Map 57
MHT# 2206783417

MARYLAND HISTORICAL TRUST WORKSHEET

NOMINATION FORM
for the
NATIONAL REGISTER OF HISTORIC PLACES, NATIONAL PARKS SERVICE

SEE INSTRUCTIONS

1. NAME

COMMON: Funkstown Bridge #2

AND/OR HISTORIC: Shafer's Mill Bridge

2. LOCATION

STREET AND NUMBER: East Oak Ridge Drive and Antietam Creek

CITY OR TOWN: Funkstown

STATE: Maryland

COUNTY: Washington

3. CLASSIFICATION

CATEGORY (Check One)	OWNERSHIP		STATUS	ACCESSIBLE TO THE PUBLIC
☐ District ☐ Building ☐ Site ☒ Structure ☐ Object	☒ Public ☐ Private ☐ Both	Public Acquisition: ☐ In Process ☐ Being Considered	☐ Occupied ☐ Unoccupied ☐ Preservation work in progress	Yes: ☐ Restricted ☒ Unrestricted ☐ No

PRESENT USE (Check One or More as Appropriate)

☐ Agricultural	☐ Government	☐ Park	☒ Transportation	☐ Comments
☐ Commercial	☐ Industrial	☐ Private Residence	☐ Other (Specify) _____	
☐ Educational	☐ Military	☐ Religious		
☐ Entertainment	☐ Museum	☐ Scientific		

4. OWNER OF PROPERTY

OWNER'S NAME: Board of County Commissioners of Washington County

STREET AND NUMBER: Washington County Court House

CITY OR TOWN: Hagerstown

STATE: Maryland

5. LOCATION OF LEGAL DESCRIPTION

COURTHOUSE, REGISTRY OF DEEDS, ETC:

STREET AND NUMBER:

CITY OR TOWN:

STATE

Title Reference of Current Deed (Book & Pg. #):

6. REPRESENTATION IN EXISTING SURVEYS

TITLE OF SURVEY:

DATE OF SURVEY: ☐ Federal ☐ State ☐ County ☐ Local

DEPOSITORY FOR SURVEY RECORDS:

STREET AND NUMBER:

CITY OR TOWN:

STATE:

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7. DESCRIPTION

CONDITION	(Check One)					
	☒ Excellent	☐ Good	☐ Fair	☐ Deteriorated	☐ Ruins	☐ Unexposed
	(Check One)		(Check One)			
	☒ Altered < 50%	☐ Unaltered	☐ Moved	☒ Original Site		

DESCRIBE THE PRESENT AND ORIGINAL *(If known)* PHYSICAL APPEARANCE

The structure known as the "second Funkstown bridge" carries Oak Ridge Drive across the Antietam Creek. It is located near the site of "Shafer's Mill" which was in operation during the late 18th and 19th centuries. The mill dam is immediately north or upstream from the bridge.

The bridge is constructed of coursed native limestone with somewhat finer stonework in evidence from the apex of the piers down to the water. The structure has three segmental arches which are lined with carefully dressed voussoirs. The arches are graduated in size with the largest opening toward the west end of the bridge. The bridge walls reach their highest point over the westernmost arch. The wing walls extend at an abrupt angle from the sides of the bridge. Both rounded and pyramidal piers are used on this bridge to buttress the arches. The parapets are topped with concrete. A tablet on the bridge records the builder as George Wever, 1833, with Commissioners listed as J. Whitmer, Sr., D. Claggett, H. Fiery, J. Gelwicks, R. Wasson, S. U. Hitt and A. Rentch.

The bridge appears to be in good to excellent condition but is located in an area of extensive commercial development.

SEE INSTRUCTIONS

WA-I-028

1-A

8. SIGNIFICANCE

PERIOD *(Check One or More as Appropriate)*

☐ Pre-Columbian	☐ 16th Century	☐ 18th Century	☐ 20th Century
☐ 15th Century	☐ 17th Century	☒ 19th Century	

SPECIFIC DATE(S) *(If Applicable and Known)* 1833

AREAS OF SIGNIFICANCE *(Check One or More as Appropriate)*

Aboriginal	☐ Education	☐ Political	☐ Urban Planning
☐ Prehistoric	☒ Engineering	☐ Religion/Philosophy	☐ Other *(Specify)*
☐ Historic	☐ Industry		
☐ Agriculture	☐ Invention	☐ Science	
☒ Architecture	☐ Landscape Architecture	☐ Sculpture	
☐ Art		☐ Social/Humanitarian	
☒ Commerce	☐ Literature		
☐ Communicotions	☐ Military	☐ Theater	
☐ Conservation	☐ Music	☒ Transportation	

STATEMENT OF SIGNIFICANCE

The Funkstown Bridge #2 is significant for its architecture, for its contribution to commerce and transportation as well as for the example it provides of the engineering abilities of the early bridge builders.

Architecturally, the structure is an example of the type of bridge extensively used in Washington County and nearby Franklin County, Pa. during the first half of the 19th century. Stone arched bridges are uncommon outside these two counties which comprise the lower Cumberland Valley. Stone was used extensively as a building material for houses, barns, mills and other structures in the Cumberland Valley between 1800 and 1850. The great number of stone bridges, most of which were built between 1820 and 1850 could reflect this trend in Cumberland Valley architecture. It is said that the Maryland Legislature insisted on the construction of stone rather than wooden bridges because of the greater durability of the stone structures. It is presumed that stone bridges were constructed for a number of the county's other roads for the same reason.

Built in 1833 this structure like many of the county's stone bridges, is located near a mill site. Milling was an important industry in Washington County and numerous establishments were located along the Antietam Creek. Many of the county's major roads led to mills which were trading centers as well as places for social gatherings. The bridge facilitated the movement of traffic to and from the mill and the village of Funkstown, thus contributing to commercial growth of the vicinity.

This bridge and others like it in the county, accommodating traffic of a much greater volume and weight than they were designed to carry, remain as monuments to the engineering capabilities of the early bridge builders. In addition to George Weaver, other bridge builders in the county were John Weaver, who is presumed to be George's brother, the Lloyds, a Pennsylvania firm, Silas Harry and Charles Wilson. Records show that in several instances certain of these builders worked together.

SEE INSTRUCTIONS

WA I-028

9. MAJOR BIBLIOGRAPHICAL REFERENCES

Hays, Helen Ashe, The Antietam and Its Bridges, New York: G. P. Putnam's Sons, 1910.

Washington County Museum of Fine Arts, "Bridges: Our Legacy in Stone," exhibition catalog, August-September, 1965.

10. GEOGRAPHICAL DATA

LATITUDE AND LONGITUDE COORDINATES DEFINING A RECTANGLE LOCATING THE PROPERTY							OR	LATITUDE AND LONGITUDE COORDINATES DEFINING THE CENTER POINT OF A PROPERTY OF LESS THAN TEN ACRES					
CORNER	LATITUDE			LONGITUDE				LATITUDE			LONGITUDE		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
NW	°	'	"	°	'	"		°	'	"	°	'	"
NE	°	'	"	°	'	"							
SE	°	'	"	°	'	"							
SW	°	'	"	°	'	"							

APPROXIMATE ACREAGE OF NOMINATED PROPERTY:

Acreage Justification:

SEE INSTRUCTIONS

11. FORM PREPARED BY

NAME AND TITLE:
Paula Stoner Dickey, Consultant

ORGANIZATION
Washington County Historical Sites Survey

DATE
March, 1975

STREET AND NUMBER:
Court House Annex

CITY OR TOWN:
Hagerstown

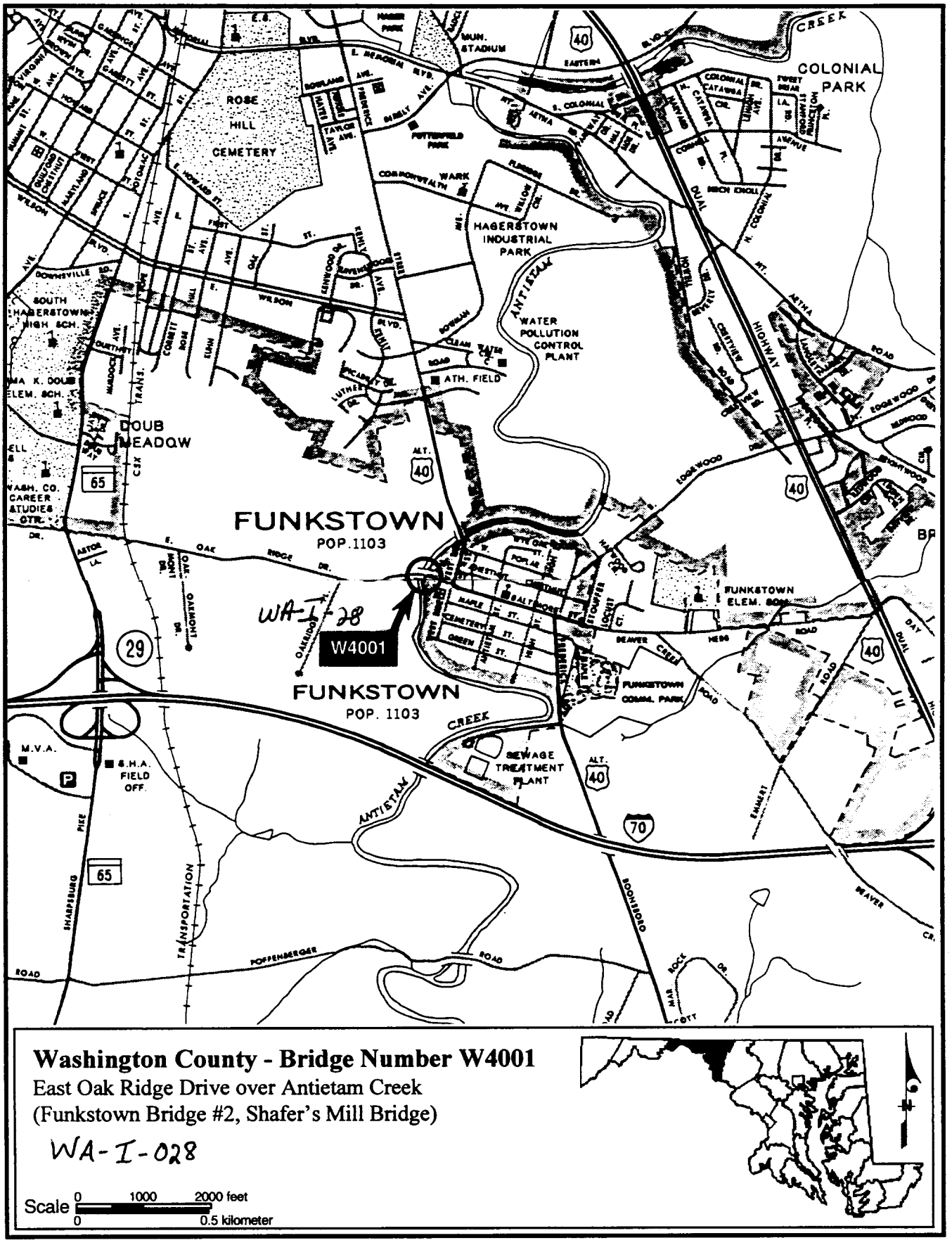
STATE
Maryland

12. State Liaison Officer Review: (Office Use Only)

Significance of this property is:

National ☐ State ☐ Local ☐

Signature



Washington County - Bridge Number W4001

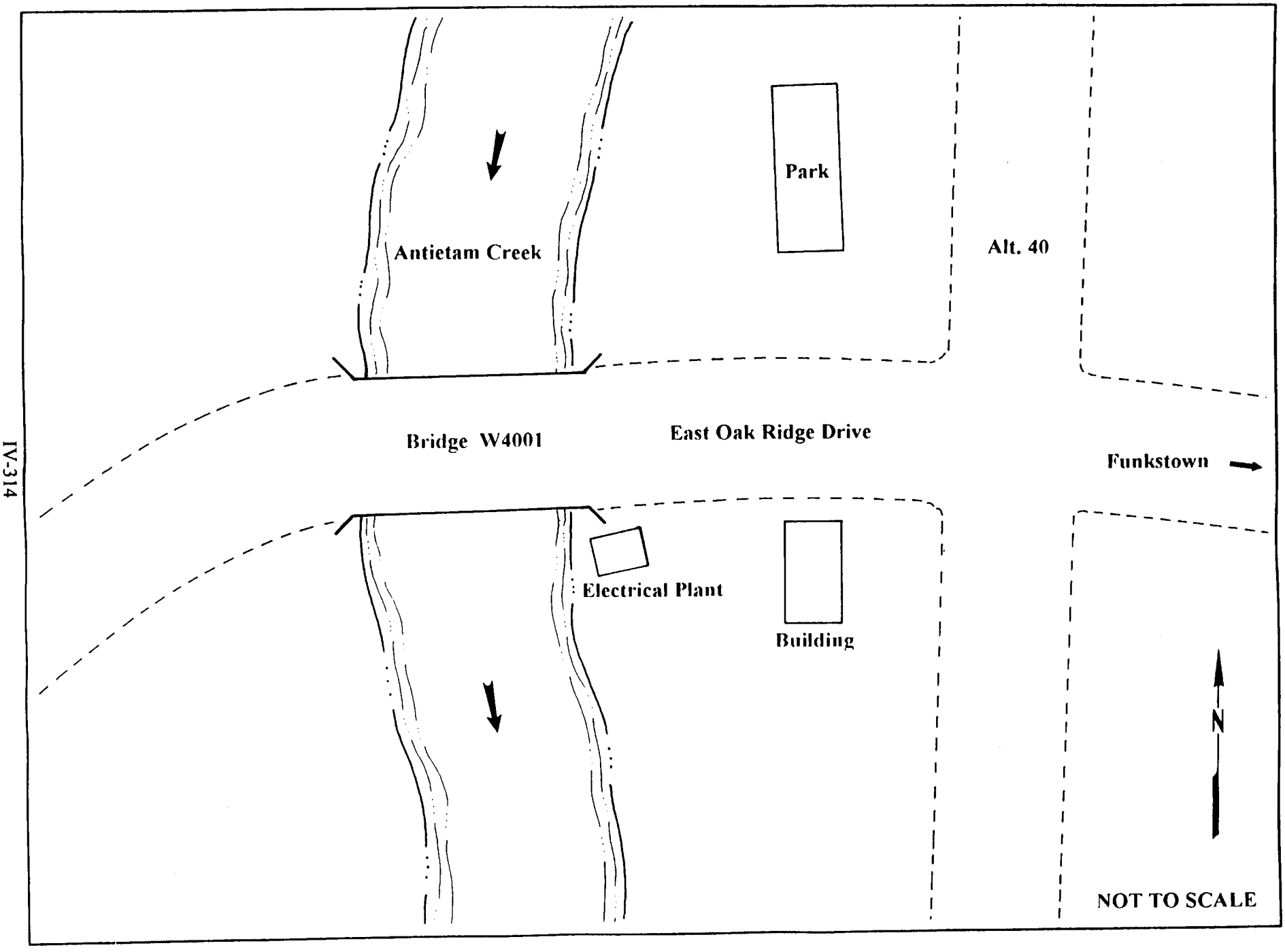
East Oak Ridge Drive over Antietam Creek

(Funkstown Bridge #2, Shafer's Mill Bridge)

WA-I-028

Scale 0 1000 2000 feet

0 0.5 kilometer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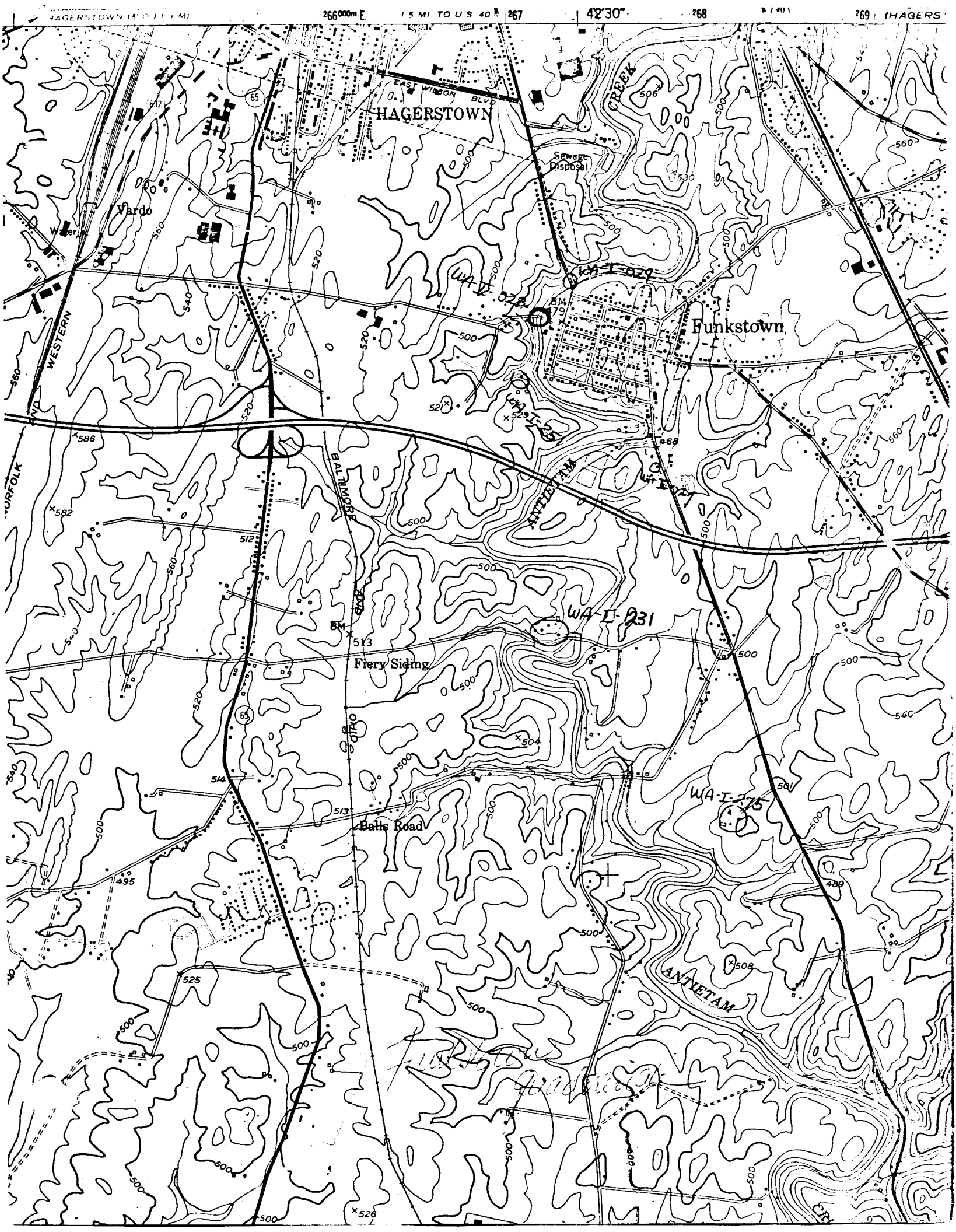
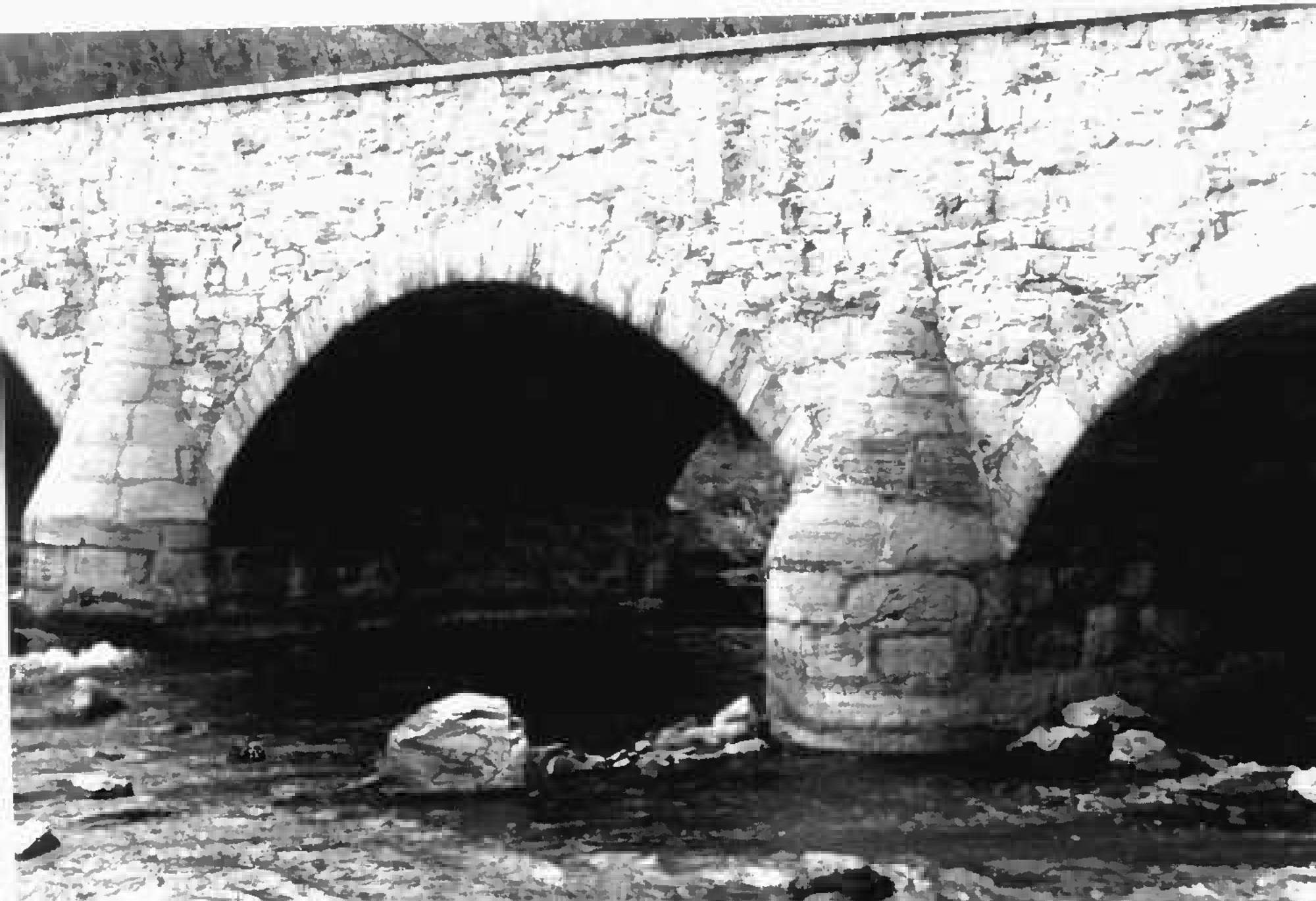
Park
Alt. 40
Bridge W4001
East Oak Ridge Drive
Funkstown
Electrical Plant
Building
N
NOT TO SCALE


HAGERSTOWN
EAST WASHINGTON BLVD
Sewage Disposal
CREEK
Vardo
WESTERN
WA-I-029
WA-I-028
BM 479
Funkstown
WA-I-027
ANTIETAM
BALTIMORE
WA-I-031
BM 513
Fiery Siding
Ohio
Balls Road
WA-I-175
ANTIETAM

WA-I-028
Funkstown Bridge #2 (W4001)
Washington County, Maryland
Julie Abell
11/94
Maryland State Highway Administration
North elevation
1 of 6

MD-J-025
Funkstown Bridge #2 (W4001)
Washington County, Maryland
Julie Abell
11/94
Maryland State Highway Administration
North elevation, detail
2 of 6

WA-I-028
Funkstown Bridge #2 (W40-01)
Washington County, Maryland
Julie Abell
11/94
Maryland State Highway Administration
South elevation
5 of 6



WA-I-028
Funkstown Bridge #2 (WA-CO-1)
Washington County, Maryland
Julie Abell
11/94
Maryland State Highway Administration
South elevation, detail
4 of 6

WA-I-028
Funkstown Bridge #2 (10400)
Washington County, Maryland
Julie Abell
11/94
Maryland State Highway Administration
Approach looking east
5 of 6

WA-I-028
Funkstown Bridge #2 (W4001)
Washington County, Maryland
Julie Abell
11/94
Maryland State Highway Administration
Approach looking west
6 of 6