

Maryland Historical Trust

Maryland Inventory of Historic Properties number: HO-663

Name: Daisey Polover Little Cattail Crk. (HO-38)

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 <u> X </u>	Eligibility Not Recommended <u> </u>
Criteria: <u> </u> A <u> </u> B <u> X </u> C <u> </u> D	Considerations: <u> </u> A <u> </u> B <u> </u> C <u> </u> D <u> </u> E <u> </u> F <u> </u> G <u> </u> 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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Metal Arch

Metal Cantilever

Concrete

Concrete Arch Concrete Slab Concrete Beam

Rigid Frame

Other Type Name _____

Description:

Describe Setting: Bridge HO38 carries Daisy Road over Little Cattail Creek in Howard County, Maryland. Daisy Road runs in north-south direction at this location; Cattail Creek runs generally east-west. The bridge is located in a rural wooded area. There are no structures visible from the bridge.

Describe Superstructure and Substructure: The superstructure of Bridge HO38 is a single span steel beam bridge with a reinforced concrete deck and bituminous concrete wearing surface. It has a 30' span length with a total bridge length of 32'. It also has standard W-beam guard rails on both sides of the bridge. The substructure consists of concrete abutments and wing walls.

Discuss Major Alterations: There is no documentary evidence in the county inspection records of any substantial alterations having been made to HO38.

History:

When Built: 1935

Why Built: local transportation needs

Who Built:

Why Altered:

Was this bridge built as part of an organized bridge building campaign: yes

Surveyor Analysis:

This bridge may have NR significance for association with:

A Events B Person

C Engineering/Architectural

Was this bridge constructed in response to significant events in Maryland or local history: Many steel beam bridges were erected all over the state, as well as the county during the early part of the twentieth century. Other than being a typical replacement of the time period, it is not likely that HO38 was constructed in response to any specific events in Maryland or local history.

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:No, construction and alteration of the structure did not have a significant impact on the growth or development of the area.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from historic and visual character of the possible district:No, this structure is not located in an area which could be considered eligible for historic designation.

Is the bridge a significant example of its type:No, HO38 is not a significant example of its type.

Does the bridge retain integrity of the important elements described in the Context Addendum:Rolled wide flange beams are considered primary character defining elements. There is no indication in the county inspection files that any of the beams have been repaired or replaced. The floor system and deck are considered secondary character defining elements. Likewise, there is no record of repairs or alterations to either of these elements of HO38 other than resurfacing. W beam guard rails are considered tertiary character defining elements under additional functional features. These have been replaced at least once in the past ten years. The most recent inspection reports indicate the superstructure of HO38 is in fair condition, and recommends clearing away of debris and rust and cleaning and repainting of beams, supports and guard rails.

Concrete abutments are considered primary character defining elements. The most recent inspection report lists the abutments in poor condition and in need of immediate repairs. The report indicates that the abutments are cracked and severely spalled in many locations.

These needed repairs raise questions about the integrity of this structure. Without the repairs the structure will become unsafe. But, with the repairs the integrity will be jeopardized.

Should this bridge be given further study before significance analysis is made and why:No, this structure should not be given further study.

Bibliography:

Howard County

v.d Bridge Inspection Files.

Greiner, Inc.

1995 Historic Bridge Inventory Form.

Spero, P.A.C. & Company, and Louis Berger & Associates

1994 Historic Bridges in Maryland: Historic Bridge Context.

United States Geological Survey

1945 7.5' Woodbine Quadrangle, photorevised 1979.

Surveyor:

Name: Stephanie L. Bandy **Date:** August 1995

Organization: State Highway Admin. **Telephone:** (410) 321-2213

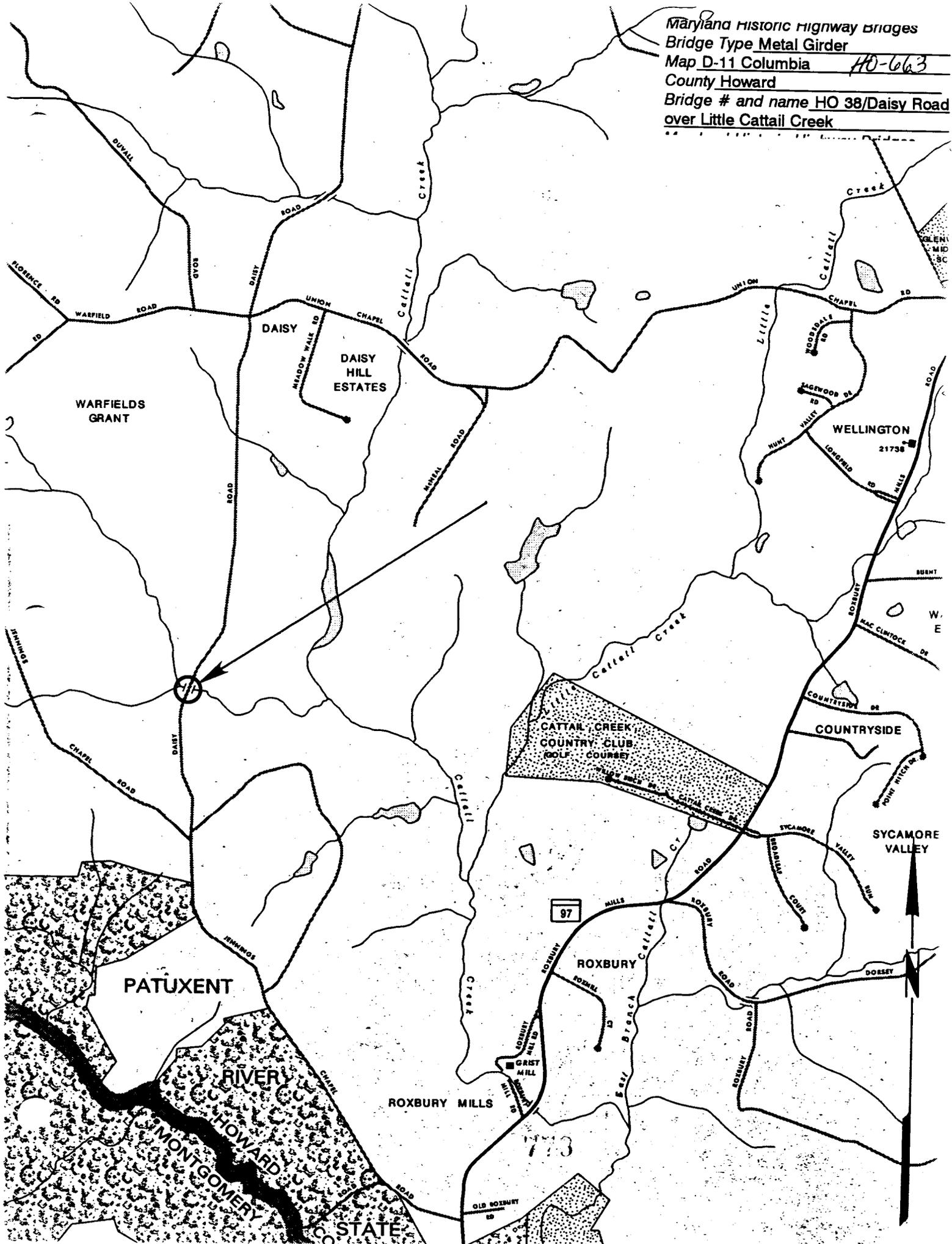
Address: 2323 West Joppa Road Brooklandville, MD 21022

Maryland Historic Highway Bridges
Bridge Type Metal Girder

Map D-11 Columbia HO-663

County Howard

Bridge # and name HO 38/Daisy Road
over Little Cattail Creek





Inventory # H0-663

Name H038 - DAISY RD OVER LITTLE CATTAIL CREEK

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2-8-95

Location of Negative SHA

Description NORTH APPROACH LOOKING SOUTH

Number ¹~~2~~ of ⁴~~3~~

PHOTOGRAPHY PUBLIC SERVICE



Inventory # H0-663

Name H038 - DAISY ROOVER ^{LITTLE} CATAIL CREEK

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2-9-95

Location of Negative SHA

Description EAST ELEVATION LOOKING
SOUTHWEST

Number 2 of 4

PHOTOGRAPH BY



Inventory # HO-663

Name HO38 - DAISY RD OVER ^{LITTLE} CATTAIL CREEK

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2-9-95

Location of Negative SHA

Description WEST ELEVATION LOOKING
NORTHEAST

Number 3 of 4
~~10~~ of ~~21~~

U.S. GEOLOGICAL SURVEY



Inventory # HO-663

Name HOSS-DAISY RO OVER ^{LITTLE} CATTAIL CREEK

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description SOUTH APPROACH LOOKING
NORTH

4 4

Number ~~X~~ of ~~31~~

PHOTOGRAPHIC SERVICE

Property Address <u>Daisy Road over Little Cattail Creek, Howard County</u>
Owner Name/Address <u>Howard County Department of Public Works, 3430 Courthouse Drive, Ellicott City, MD 21043</u>
Year Built <u>circa 1935</u>

National Register Evaluation (continued):

contributions to history, and therefore, it does not meet Criterion B. It is not eligible under Criterion C, as it is in poor condition and is not a significant example of a rolled metal girder bridge. Finally, the structure has no known potential to yield important information, and therefore, is not eligible under Criterion D.

MHT CONCURRENCE:													
Eligibility	Recommended			<input checked="" type="checkbox"/> Not recommended									
Criteria	A	B	<input checked="" type="checkbox"/> C	D	Considerations	A	B	C	D	E	F	G	None
Comments:	<u>NO WRITIMONS A TYPE A POOR INTEGRITY.</u>												
<u>[Signature]</u>				<u>11/13/98</u>		<u>[Signature]</u>				<u>11/17/98</u>			
Reviewer, Office of Preservation Services				Date		Reviewer, NR program				Date			

[Handwritten initials]

Property Address <u>Daisy Road over Little Cattail Creek, Howard County</u>
Owner Name/Address <u>Howard County Department of Public Works, 3430 Courthouse Drive, Ellicott City, MD 21043</u>
Year Built <u>circa 1935</u>

Description:

Bridge HO-38, Daisy Road over Little Cattail Creek, is a single-span, 2-lane metal girder bridge. The bridge was constructed circa 1935. The structure is 9.7 meters (31.8 feet) long and has a clear roadway width of 7.1 meters (23.3 feet); there are no sidewalks. The out-to-out width is 7.4 meters (24.4 feet). The superstructure consists of nine rolled metal girders that support a concrete deck and metal guardrails. The girders are spaced approximately .9 meters (3 feet) apart. The concrete deck is 20.3 centimeters (8 inches) thick and has a 7.6 centimeter (3 inch) thick bituminous wearing surface. The substructure consists of two concrete abutments. There are four flared concrete wingwalls. The bridge is posted for 10.9 tonnes (12 tons) and 35 miles per hour, and has a sufficiency rating of 42.4.

According to the 1997 inspection report, the superstructure is in poor condition and the substructure is in fair condition. The asphalt wearing surface is settling and cracking at the approaches. Both edges of the concrete deck exhibit large spalls. The interior girders exhibit minor loss of web and flange thickness at the supports. The exterior and first interior girders on the upstream and downstream sides of the bridge display severe corrosion with significant section loss along the bottom flanges at both abutments. The concrete on the abutments is cracked and spalling, and both abutments have been heavily patched.

National Register Evaluation:

A preliminary determination of NR eligibility was made for Bridge HO-38, Daisy Road over Little Cattail Creek, by the Interagency Review Committee in 1996. However, in the October 2, 1997 meeting of the Interagency Review Committee, it was determined that Metal Girder/Beam, Concrete Beam, and Concrete Slab bridges could be re-assessed using the procedures from May 1997. P.A.C. Spero & Company requests that the National Register eligibility of this structure be reconsidered. A significant example of a metal girder bridge should possess all the character defining elements (CDEs) of its type, and be readily recognizable as an historic structure from the perspective of the traveler. The integrity of distinctive features visible from the roadway approach, including railings, is important in structures such as bridge HO-38, which are common examples of their type. The railing of this structure has been replaced. The new railing is a steel guardrail which extends across the bridge and along the roadway approaches. Since metal girder bridges are an extremely common type, they must also possess a high degree of integrity of their primary elements, which include metal girders and stone, timber, or concrete abutments, as well as all secondary elements, which include railings, the floor system, and the deck, in order to be considered as a significant example. This structure lacks the integrity of its character-defining elements.

The revised 1995 Historic Highway Bridges in Maryland 1631-1960 describes the history and structural components of each type of bridge within Maryland. The components or members needed for assessing historic integrity are known as character defining elements. The alteration, elimination, and present condition of CDEs should be taken into account when determining a structure's integrity. Bridge HO-38 is a rolled metal girder bridge and according to Appendix C in the Historic Highway Bridges in Maryland: 1631-1960 a rolled metal girder bridge has three primary CDEs; rolled longitudinal I-beams, abutments of stone, concrete, or timber, and a pier, if applicable. Bridge HO-38 possesses two character-defining elements, including the rolled metal girders and concrete abutments, however, these elements are in deteriorated condition. Bridge HO-38 is an undistinguished example of a metal girder bridge; it lacks integrity of workmanship and design due to the replacement of the railings with guardrails and the poor condition of the concrete deck and metal girders. The integrity of materials has been compromised by the heavy patching of the abutments and the deterioration of the girders. The bridge lacks integrity of feeling due to its overall poor condition. Bridge HO-38 does not retain sufficient integrity of its CDEs and secondary elements to be considered a significant example of a metal girder bridge. The structure is not eligible under Criterion A, as research conducted indicates no association with any historic events or trends significant in the development of national, state or local history. Historic research indicates that the structure has no association with persons who have made specific

Maryland Inventory of Historic Properties
Historic Bridge Inventory
Maryland State Highway Administration
Maryland Historical Trust

MHT Number HO-663

Name and SHA No. HO 38

Location:

Street/Road Name and Number: Daisy Road

City/Town: Roxbury Mills Vicinity x

County: Howard

Ownership: State x County Municipal Other

This bridge projects over: Road Railway x Water Land

Is the bridge located within a designated district: yes 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

Stone Arch

Metal Truss

Movable Bridge

Swing

Bascule Single Leaf Bascule Multiple Leaf

Vertical Lift Retractable Pontoon

x Metal Girder

x 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:**

Describe Setting: Bridge HO 38 carries Daisy Road over Little Cattail Creek in Howard County, Maryland. Daisy Road runs in north-south direction at this location; Cattail Creek runs generally east-west. The bridge is located in a rural wooded area. There are no structures visible from the bridge.

Describe Superstructure and Substructure: The superstructure of Bridge HO 38 is a single span steel beam bridge with a reinforced concrete deck and bituminous concrete wearing surface. It has a 30' span length with a total bridge length of 32'. It also has standard W-beam guard rails on both sides of the bridge. The substructure consists of concrete abutments and wing walls.

Discuss Major Alterations: There is no documentary evidence in the county inspection records of any substantial alterations having been made to HO 38.

History:**When Built:** 1935**Why Built:** Structure HO 38 was constructed to meet local transportation needs.**Who Built:****Why Altered:** Structure HO 38 was altered to meet structural and safety needs.**Was this bridge built as part of an organized bridge building campaign:** yes**Surveyor Analysis:****This bridge may have NR significance for association with:** A Events Person C Engineering/Architectural

Was this bridge constructed in response to significant events in Maryland or local history: Many steel beam bridges were erected all over the state, as well as the county during the early part of the twentieth century. Other than being a typical replacement of the time period, it is not likely that HO 38 was constructed in response to any specific events in Maryland or local history.

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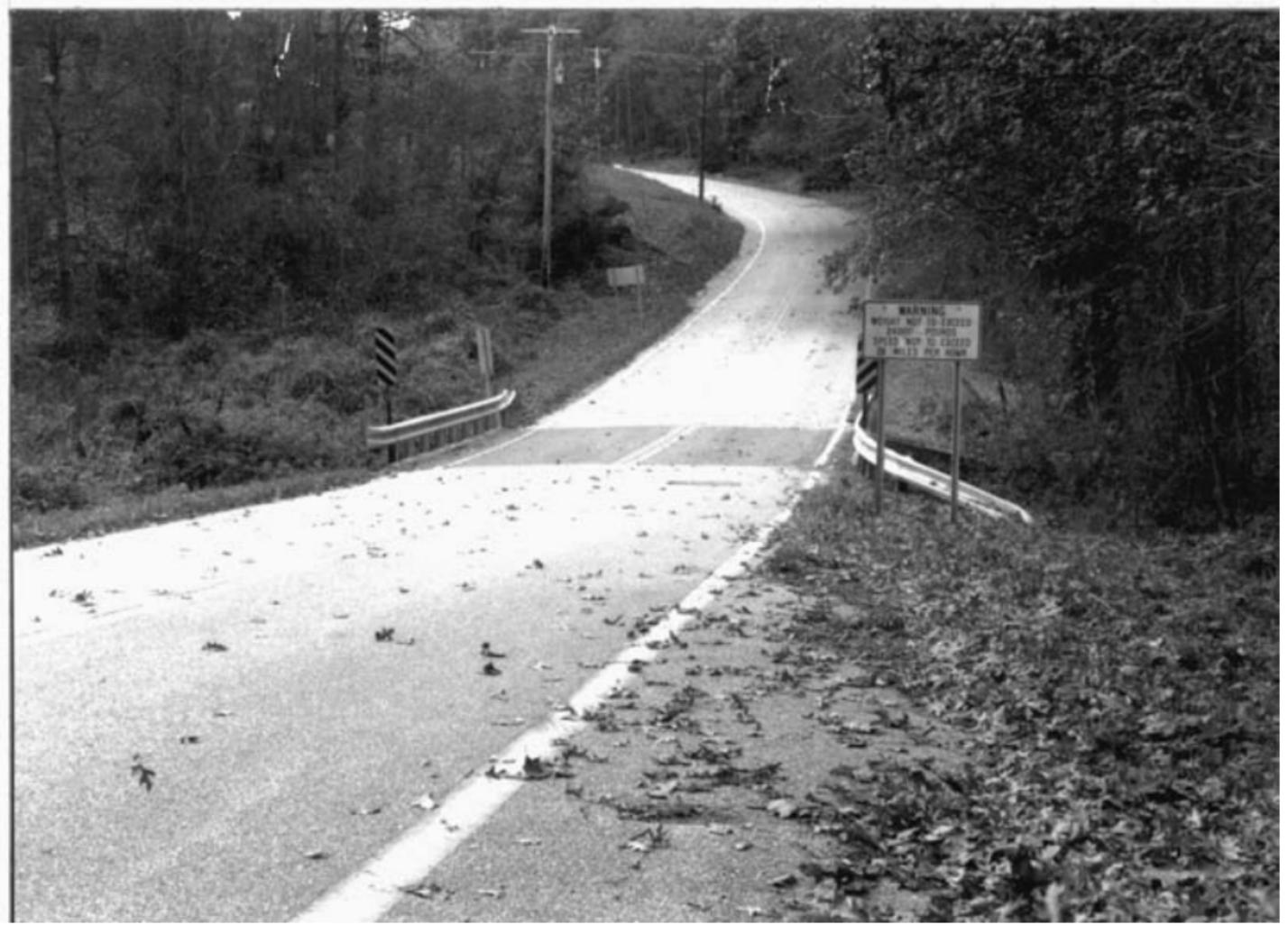
Should this bridge be given further study before significance analysis is made and why: No, this structure should not be given further study.

Bibliography:

Howard County Bridge Inspection Files
Spero, P.A.C. & Company, and Louis Berger & Associates Historic Bridges in Maryland: Historic Bridge Context, September 1994.

Surveyor:

Name: Stephanie L. Bandy Date: August 1995
Organization: State Highway Admin. Telephone: (410) 321-2213
Address: 2323 West Joppa Road Brooklandville, MD 21022

A black and white photograph of a winding road. The road curves to the right and then back to the left. There are utility poles along the left side. A speed limit sign is visible on the right side, and a warning sign is also present. The road is covered with fallen leaves. The surrounding area is densely wooded.

WARNING -
ROAD NOT FULLY
PAVED - 20 MPH
SPEED NOT TO EXCEED
IS 20 MPH ROAD

1. HO-663
2. BRIDGE HO-38, LAKE 25 - OVER LITTLE CANNON CREEK
3. HOWARD CO, MD
4. SUEAN TAYLOR
5. NOVEMBER 1997
6. MD SHPO
7. NORTH ROADWAY APPROACH, LOOKING SOUTH
8. 1 OF 6



1. HO-663
2. BRIDGE HO-38, DAISY RD OVER LITTLE CATTAIL CREEK
3. HOWARD Co, MD
4. SUSAN TAYLOR
5. NOVEMBER 1997
6. M's SUDO
7. SOUTH - & ALWAY APPROACH - LOOKING N. NORTH
8. 2 OF 6.



1. HO-663
2. BRIDGE HO-38, DAISY ROAD OVER LITTLE
CATTAIL CREEK
3. HOWARD CO., MD
4. SUSAN TAYLOR
5. NOVEMBER 1997
6. MD SHPO
7. WIND ELEVATION
8. 3 of 4



1. HO-663

2. BRIDGE HO-38 DAISY ROAD OVER LITTLE
CATTAIL CREEK

3. HOWARD CO., MD.

4. SUSAN TAYLOR

5. NOVEMBER 1997

6. N. SLD

7. EAST ELEVATIONS

8. 10/6



1. HO-663

2. BRIDGE HO-38, DAISY RD. OVER LITTLE CATTAIL
CREEK

3. HOWARD CO, MD

4. SUSAN TAYLOR

5. NOVEMBER 1997

6. MD SHPO

7. NORTH APARTMENT

8. 5 OF 6



1. 110-663

2. BRIDGE HC 38, JAISY RD OVER
CATTLE CREEK

3. HOWARD CO, MD

4. SUSAN TAYLOR

5. NOVEMBER 1997

6. MID SHPO

7. SOUTH APARTMENT

8. 6 of 6