

Maryland Historical Trust

Maryland Inventory of Historic Properties number: HO-658

Name: Stephens Rd over Hammond Rd

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 _____	Eligibility Not Recommended <u>X</u>
Criteria: <u> </u> A <u> </u> B <u> </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 HO13 carries Stephens Road over Hammond Branch in Howard County, Maryland. Stephens Road runs in a north-south direction at this location; Hammond Branch runs east-west. The bridge is located in a semi-wooded rural area. There is a modern townhouse development in view from the bridge.

Describe Superstructure and Substructure: The superstructure of HO13 is a single span steel beam with a reinforced concrete deck and bituminous overlay on the roadway. It has a 31'4" span length with a total length of 35'4". It also has modern W-beam guard rails. The substructure consists of concrete abutments and wing walls.

Discuss Major Alterations: In 1986 the entire superstructure of HO13 was replaced. This work entailed replacement of the old beams with steel, wide rolled flange beams, installation of a new deck and bituminous overlay, installation of new W-beam guard rails on the bridge deck and on the approach, and extensive modifications to the abutments. The result is a bridge with nearly no original structural elements remaining.

History:**When Built:** 1935**Why Built:** local transportation needs**Who Built:****Why Altered:** structural repairs 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 B Person C Engineering/Architectural

Was this bridge constructed in response to significant events in Maryland or local history: No, HO13 was very likely constructed as a more stable replacement of an earlier bridge. With the increased automobile traffic in the early twentieth century, and the advent of the tractor trailer in the 1930's, many weaker bridges in Howard County, and the rest of the state, were replaced with stronger and more durable steel beam bridges.

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 bridge is not located in an area which may be eligible for historic designation.

Is the bridge a significant example of its type:While structure HO13 is a typical example of a single span steel beam bridge, it 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 a primary character defining element. In 1986 the deteriorating beams of the bridge were removed and new rolled wide flange beams were installed. The bridge deck is considered a secondary character defining element. The deck of HO13 was replaced in 1986 as well.

Concrete abutments are considered primary character defining elements. In 1986 the abutments were extensively modified, according to the bridge inspection reports, but it is unclear as to exactly what those modifications were. By looking at the abutments themselves it is evident that the original abutments have either been encased in concrete, or removed and replaced with concrete.

Guard rails are considered a tertiary character defining element under additional functional features. The W-beam guard rails of HO13 have been replaced several times in the life of this bridge, most recently in 1986, when other extensive repairs were undertaken.

Should this bridge be given further study before significance analysis is made and why:No, this structure should not be given further study. Replacements of or extensive modifications to several of the character defining elements (steel beams, deck, abutments) raise doubts about the integrity of this bridge.

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

1957 7.5' Savage Quadrangle, photorevised 1966, 1974.

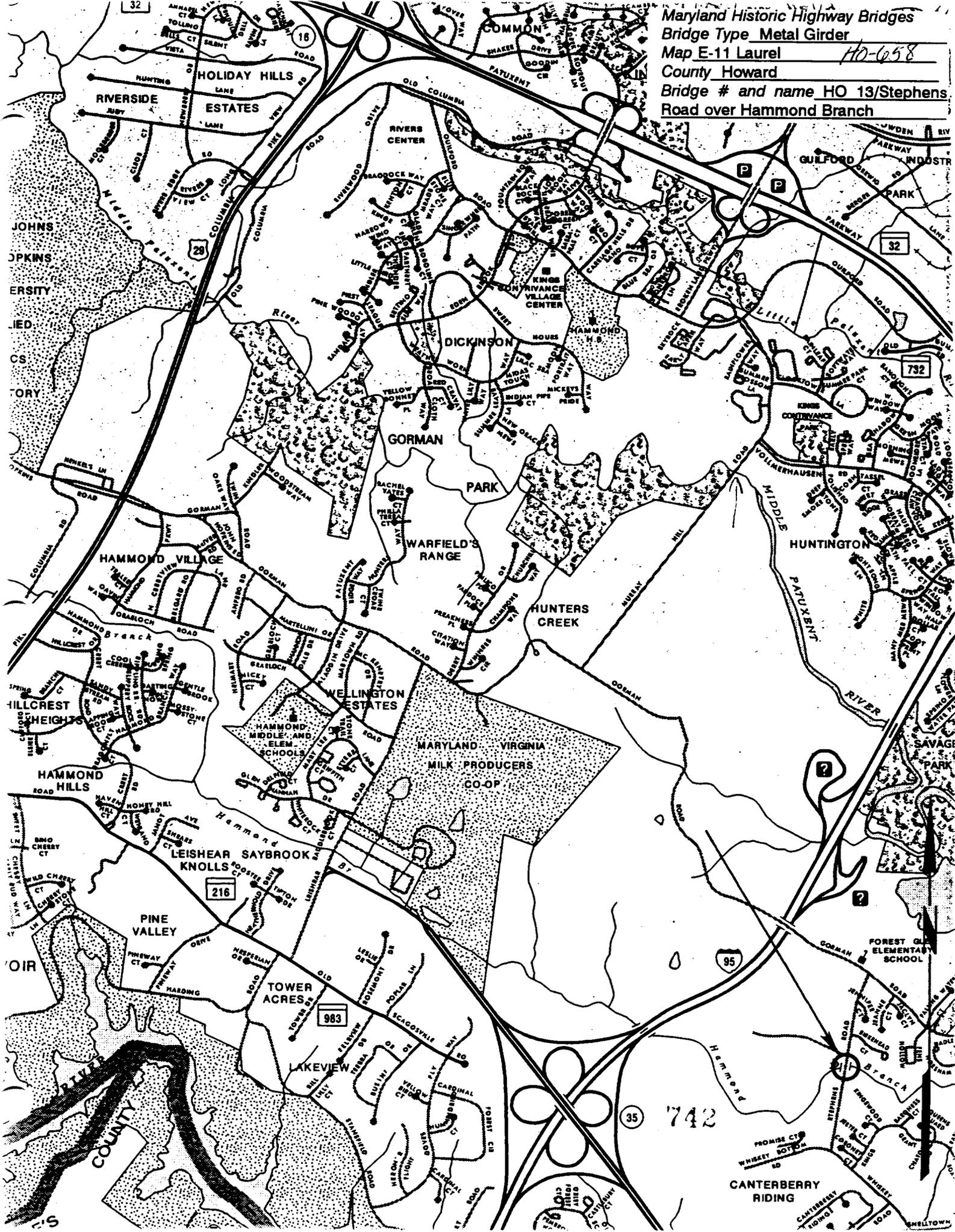
Surveyor:

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 E-11 Laurel *HO-658*
County Howard
Bridge # and name HO 13/Stephens
Road over Hammond Branch





Inventory # 110-658

Name H013-STEPHENS RD OVER HAMMOND BRANCH

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SNA

Description NORTH APPROACH LOOKING

SOUTH

1

4

Number 18 of 22



Inventory # H0-658

Name H013-STEPHENS RD OVER HAMMOND BRANCH

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description SOUTH APPROACH LOOKING
NORTH

Number 2 of 4
~~19~~ of ~~32~~

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Inventory # H0-658

Name H013-STEPHENS RD OVER HAMMOND BRANCH

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description EAST ELEVATION LOOKING WEST

Number 3 of 4
20 of 32

10-22-95 10-22-95



Inventory # H0-658

Name HO13-STEPHENS RD OVER HAMMOND BRANCH

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description WEST ELEVATION LOOKING
SOUTHEAST

Number 4 of 4
32

PHOTOGRAPHIC SERVICE