

Maryland Historical Trust

Maryland Inventory of Historic Properties number: HO-665.

Name: Bethany Lane over Little Betuxent River

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

MHT Number HO-665

Name and SHA No. Bethany Lane over Little Patuxent River/HO48

Location:

Street/Road Name and Number: Bethany Lane

City/Town: Ellicott City 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 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

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 HO48 carries Bethany Lane over the Little Patuxent River in Howard County, Maryland. Bethany Lane runs in a north-south direction at this location; the Little Patuxent runs generally north-south. The bridge is located in a wooded rural area. There is a rural twentieth century housing development near the bridge.

Describe Superstructure and Substructure: The superstructure of Bridge HO48 is a single span steel beam with a corrugated metal deck and bituminous overlay on the roadway. It has an 22' span length with a total length of 25'. It also has modern W-beam guard rails. The substructure consists of stone masonry abutments.

Discuss Major Alterations: In 1983 the bridge deck for HO48 was replaced entirely and top flange cover plates were installed on the beams. There has also been routine maintenance, such as painting, rust removal and resurfacing of the roadway on several occasions in the past twenty years.

History:**When Built:** 1935**Why Built:** local transportation needs**Who Built:****Why Altered:** structural repair and safety needs.**Was this bridge built as part of an organized bridge building campaign:** no**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: Historically there has been a bridge at this crossing of the Little Patuxent since at least 1878. It is likely that HO 48 was an early twentieth century replacement of one of these historic bridges. Many less stable timber, truss or stone bridges were replaced with steel beam bridges during the early part of the twentieth century. Other than being a typical replacement of the time period, it is not likely that HO 48 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 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 HO48 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 I-beams are considered a primary character defining element. In 1983 top flange cover plates were installed over the beams to provide additional flange sections. The bridge deck is considered a secondary character defining element. The deck of HO48 was replaced in 1983 as well.

Stone masonry abutments are considered primary character defining elements. The most recent county inspection report lists the abutments as fair, but in need of immediate maintenance. Some of the stones are missing, the mortar is cracking and the abutments are starting to become undermined by the channel flow.

Should this bridge be given further study before significance analysis is made and why:No, this structure should not be given further study. Modifications made to the beams, as well as replacement of the deck and the current deteriorating condition of the abutments, raise doubts about the integrity of this bridge.

140-665

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

1953 7.5' Ellicott City 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

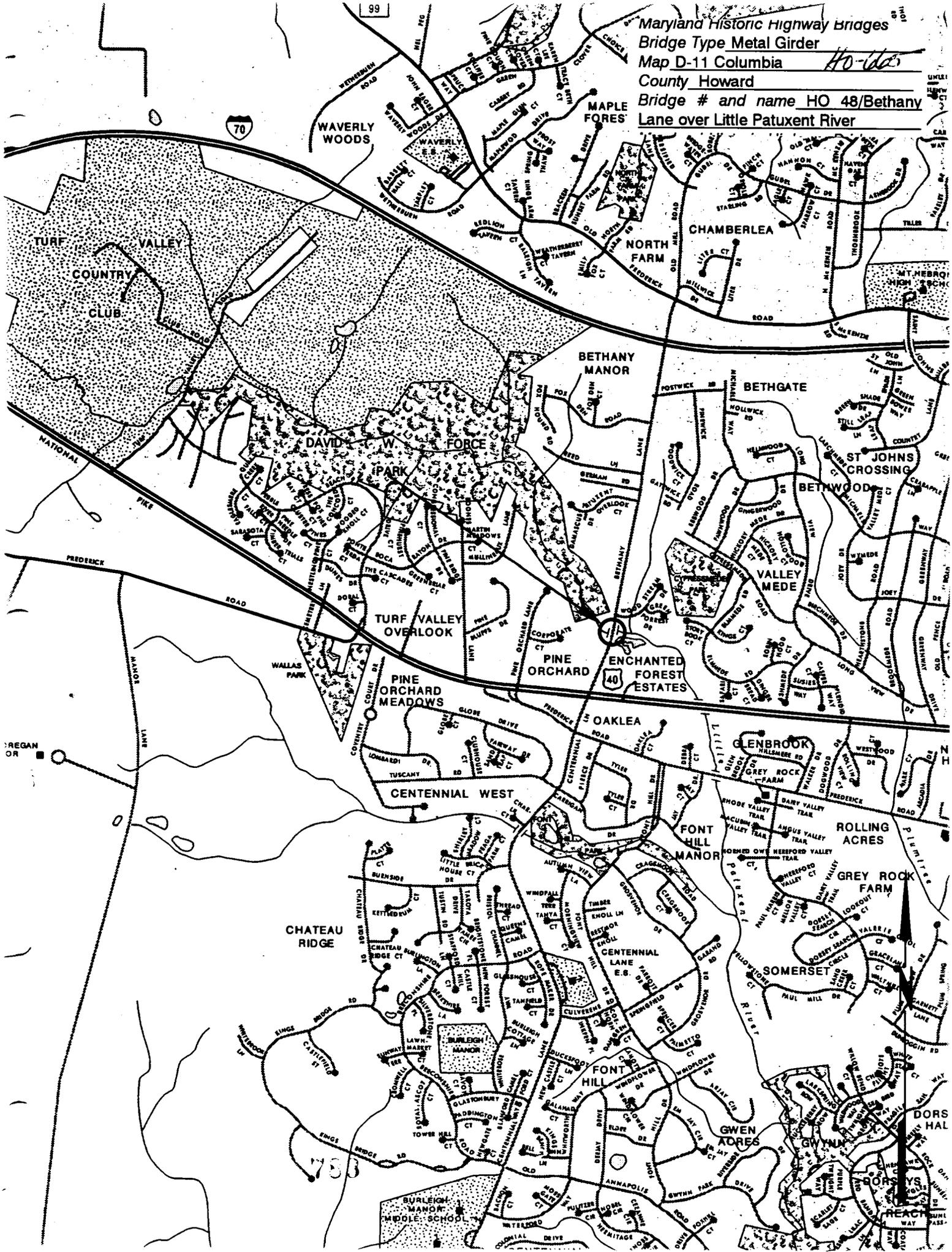
Maryland Historic Highway Bridges
Bridge Type Metal Girder

Map D-11 Columbia

HO-48

County Howard

Bridge # and name HO 48/Bethany Lane over Little Patuxent River



REGAN OR

753



Inventory # HO-665

Name HO48-BETHANY LANE OVER PATUXENT RIVER
LITTLE

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description NORTH APPROACH LOOKING SOUTH

Number 13 of 33
4

1954-1965 PHOTOLOG



Inventory # HO-665

Name HO48-BETHANN LANE OVER ^{LITTLE} PATUXENT RIVER

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description SOUTH APPROACH LOOKING NORTH

Number 2 4
14 of 33

CONFIDENTIAL



Inventory # HO-665

Name HO48-BETHANY LAND OVER ^{LITTLE} PATUXENT RIVER

County/State HOWARD / MD

Name of Photographer DAVID DIERL

Date 2/95

Location of Negative SHA

Description EAST ELEVATION LOOKING NORTHWEST

Number 3 4
15 of 23

UNIVERSITY MICROFILMS



Inventory # H0-665

Name H048- BETHANY LAKE OVER ^{LITTLE} PATUXENT RIVER

County/State HOWARD | MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description WEST ELEVATION LOOKING
SOUTHEAST

Number 4 of 5
~~6~~ of ~~33~~

PHOTOGRAPHY SERVICE