

Maryland Historical Trust

Maryland Inventory of Historic Properties Number: FG: 68-84

Name: MD 412A OVER NE BRANCH OF ANACOSTIA 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 bridged received the following determination of eligibly.

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>

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

MHT Number PG: 68-84

SHA Bridge No. 16069 Name: MD 412A over NE Branch of Anacostia River

Location:

Street/Road Name and Number: MD 412A (Riverdale Road)

City/Town: Riverdale Vicinity X

County: Prince George's

Ownership: X State 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
- Metal Girder
 - Rolled Girder Rolled Girder Concrete Encased
 - Plate Girder Plate Girder Concrete Encased
- Metal Suspension
- Metal Arch
- Metal Cantilever
- X Concrete
 - X Concrete Arch Concrete Slab Concrete Beam
 - Rigid Frame
- Other Type Name _____

Describe Setting:

Bridge 16069 carries MD 412A over the Northeast Branch of the Anacostia River in Prince George's County. MD412A runs east-west over the northern flowing Northeast Branch of the Anacostia River. The area immediately adjacent to the bridge is heavily developed with both modern commercial and residential sites. The bridge is in the Anacostia River Park.

Describe Superstructure and Substructure:

Bridge 16069 is a double-span filled concrete arch bridge. The length of the bridge is 99 feet. Each clear span is 45 feet long with 10-foot rises. The spandrel walls are approximately 12 feet high and 30 feet wide. There is a 1-inch angle and a 2-inch cove molding. The abutments are approximately 14 feet high and 25 feet across. The pier is approximately 8 feet by 4 feet by 27 feet. There is a clear roadway width of 27 feet, with an overall width of 34 feet 11 inches. The bridge was built with a 5-foot sidewalk on the western side of the bridge supported by cantilever concrete brackets. According to a 1996 inspection report, the bridge is in satisfactory condition with a sufficiency rating of 76.5.

The weepholes at the base of the arches have heavy exudation stains and surface spalling underneath. The underside of the arch has light horizontal, random and longitudinal cracking with efflorescence. In addition some longitudinal cracks run the entire length of the arch barrel. The piers have been patched at the end and map cracking is present in the patchwork. There are areas of scaling and vertical cracks on the pier faces. The portions of the pier exposed to the stream flow have moderate concrete erosion.

The concrete brackets supporting the sidewalk have medium to heavy spalling and some exposed reinforcement bars. There has been some patching done to the brackets and cracking is present in the patchwork. The soffit between the supports has light map cracks with efflorescence. The surface of the sidewalk has light scaling and fine transverse cracking. The spandrel walls have fine horizontal and map cracking with efflorescence and rust stains.

The parapets are original. The builders used an open parapet design that consists of vertical posts securely fastened by dowels to the structure, horizontal rails, and solid panels that fill the space between posts and the railings. The panels may be cast in place or precast, and the posts and rails were cast in place. Solid paneled expansion joints separate the open panels. The parapets are in 8 sections with 2 end blocks. Each section has 1 panel with 11 open panels measuring 10 feet across. The parapet caps have heavy erosion with a spall on top at the northeast corner. Several of the posts are spalled with reinforcement bars exposed and some of the posts on the south side have been patched. The curb on the north side has also been patched.

Discuss Major Alterations:

In 1990 the bridge received remedial patching on several of the parapets with in kind material. In addition, the stalling on the pier was removed because of excessive deterioration and replaced with concrete in 1991.

When Built? 1931

Why Built? Replacement of two structures that were deteriorated.

Who Built? State Roads Commission

Who Designed? State Roads Commission

Why Altered? Safety concerns.

Was this bridge built as part of an organized bridge building campaign? No, this structure was built to replace two structures that were in a deteriorated state. It was not built as part of an organized bridge building campaign.

Surveyor Analysis:

This bridge may have NR significance for association with:

A Events **Person**
 C Engineering/Architectural

This bridge was determined eligible by the Interagency Review Committee in June 1996.

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

Yes, this structure was built to replace the Twin Bridges over the Anacostia. Bridge 16069 on Old Jefferson Avenue, between Riverdale and East Riverdale, connected Baltimore Boulevard with Edmonson Road. The Twin Bridges crossed the Northeast Branch and a tributary creek. The confluence of the streams was altered so that only one bridge was needed.

Is the bridge located in an area that 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 of that is eligible for historic designation.

Is the bridge a significant example of its type?

Yes this bridge is a good example of its type. There have been no substantial changes made to this structure.

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

Yes, this bridge does retain integrity of its character defining elements, including arch ribs, spandrel walls, parapet, abutments, wingwalls, and pier.

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

Yes, this bridge is a significant example of the work of the State Roads Commission in the 1930s.

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

No this bridge should not be given further study.

Bibliography:

County inspection/bridge files _____ SHA inspection/bridge files X

Other (list):

Surveyor:

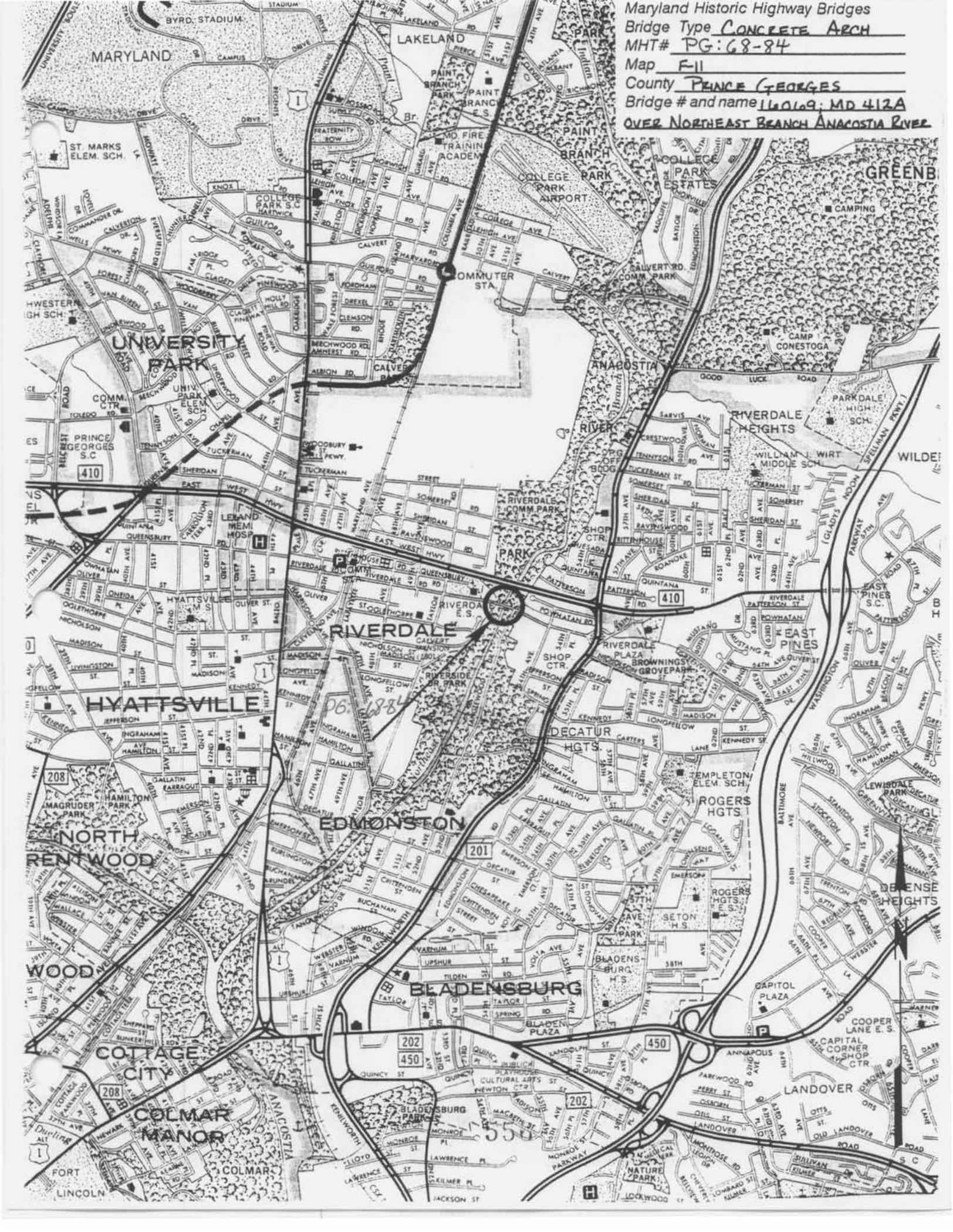
Name: Stacie Y. Webb **Date:** January 1996

Organization: State Highway Admin. **Telephone:** (410) 545-8559

Address: 707 N. Calvert Street, Baltimore, Maryland

Edited by P.A.C. Spero & Company, December 1997

Maryland Historic Highway Bridges
Bridge Type CONCRETE ARCH
MHT# PG:68-84
Map F-11
County PRINCE GEORGES
Bridge # and name 1460169; MD 412A
OVER NORTHEAST BRANCH ANACOSTIA RIVER





Inventory # PG:68-84

16069-MD412A OVER NE BRANCH OF
Name ANACOSTIA RIVER

County/State PRINCE GEORGES COUNTY/MD

Name of Photographer WALLY KING

Date 1/95

Location of Negative SHA

Description EAST APPROACH LOOKING
WEST

Number 1 of 4
~~10~~ ~~25~~

BARKROOM(08)047 4611-B N 1132



Inventory # PG 68-84

16069-MD412A OVER NE BRANCH OF

Name ANACOSTIA RIVER

County/State PRINCE GEORGES COUNTY/MD

Name of Photographer WALLY KING

Date 1/95

Location of Negative SHA

Description WEST APPROACH LOOKING EAST

Number 2 of 9
X of 25



Inventory # PG: 68-84

16069-MD412A OVER WE BRANCH OF
Name ANA COSTIA RIVER

County/State PRINCE GEORGES COUNTY/MD

Name of Photographer WALLY KING

Date 1/95

Location of Negative SHA

Description SOUTH ELEVATION

Number 3 of 4

PHOTOGRAPHY UNIT [10042 4811 1111]



Inventory # PG:68-84

16069-MD412A OVER NE BRANCH OF
Name ANACOSTIA RIVER

County/State PRINCE GEORGES COUNTY/MD

Name of Photographer WALLY KING

Date 1/95

Location of Negative SHA

Description NORTH ELEVATION

Number 4 of 4

PHOTOGRAPHIC UNIT 10047 4811 N.N.H. DC