Maryland Historical Trust

Maryland Inventory of Historic Properties Number: PG: 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 ___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 Number PG: 68-84
Historic Bridge Inventory
Maryland State Highway Administration
Maryland Historical Trust

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 _Retractile _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_____

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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 starling 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.

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Surveyor Analysis:
This bridge may have NR significance for association with:
X A Events _Person
X 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?

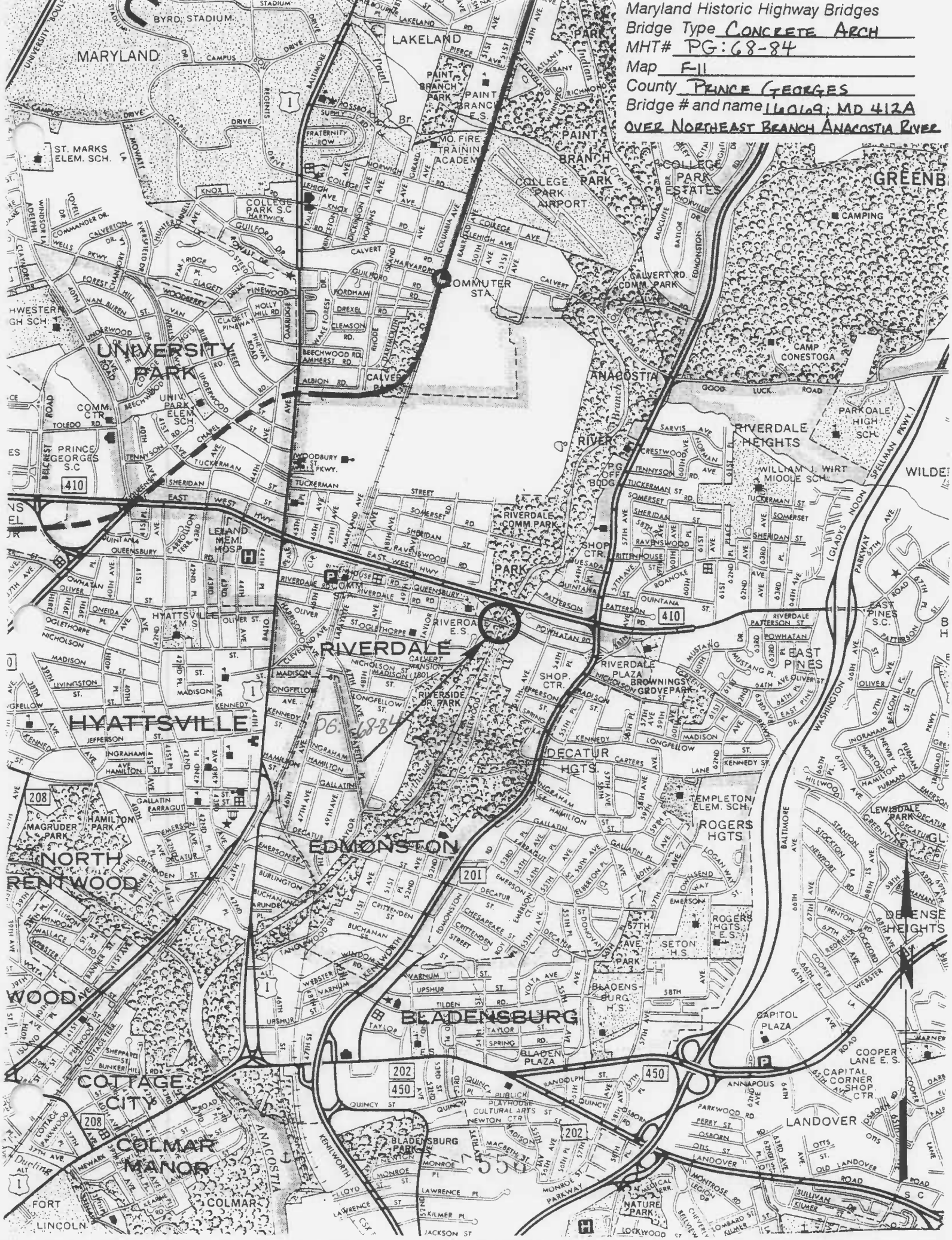
Yes, this bridge is a significant example of the work of the State Roads Commission in the 1930s.

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 160169; MD 412A
OVER NORTHEAST BRANCH ANACOSTIA RIVER
PG:68-84
N 550

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 10 of 14

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 4

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 SOUTH ELEVATION

Number 3 ~~12~~ of 4 ~~13~~

Inventory # PG:68-84

Name 16069-MD412A OVER NE BRANCH OF 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 ~~13~~ of 4 ~~23~~