

Maryland Historical Trust

Maryland Inventory of Historic Properties number: SM-518

Name: MD470 over Tanakoken Creek.

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 SM-518

Name and SHA No. 18027 over Tomakokin Creek

**Location:**

Street/Road Name and Number: MD 470 over Tomakokin Creek

City/Town: Mt. Pleasant Vicinity X

County: St. Mary'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

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 No. 18027 carries MD Route 470 north-south over Tamako~~kin~~ Creek in St. Mary's County, Maryland. The area round the bridge is rural and surrounded by forests with no apparent development within sight of the bridge. Open spaces behind the trees are suggestive of agricultural fields. A single utility line traverses the creek parallel to the bridge.

**Describe Superstructure and Substructure:**

Bridge No. 18027 is a single span steel stringer bridge with a timber deck, and a timber substructure. The structure is 25'± long, and has a clear roadway width of 24'. This bridge was built in 1934 with an original design live load of H-15, and no provisions for a bituminous wearing surface. Construction of this bridge utilized open hearth structural grade steel.

A 1988 inspection report described deterioration to the bridge including a 2" by 8" hole found in the web at the bearing. Minor damage had occurred to the wheel guard. All of the beams had moderate to heavy scaling. Some beams were pitted, have section loss, and are corroded. The timber whalers are rotten and in poor condition. The timber piles ends are rotten and deteriorated.

**Discuss Major Alterations:**

In 1983 it was found that the deck was overlaid with approximately 2" of bituminous wearing surface. The beams as measured in the field do not conform to the beams as called off on the plans. The plans called for I 15 x 35. The existing beams conform to the dimensions of a W 16 x 45. Beam spacing is 32". The existing deck is 4 x 12 timber. There is no documentation indicating when a superstructure replacement was done.

In 1993, Bearing 2 beam 2 was scheduled to be repaired by bolting angles to the beam. These repairs are identical to repairs completed to Bearing 1, beam 1. In 1990 repairs were made to remove the posting, install steel channels to strengthen the timber abutment caps and add a stiffener angle to the steel beam with section loss.

No major modifications are known to have been completed upon this bridge.

**History:****When Built:** 1934 Plans are in the file.**Why Built:** Local transportation needs**Who Built:** Unknown**Why Altered:** Not applicable**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:**

No, this bridge was not constructed in response to significant 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, the construction and/or alteration of this bridge has had no significant impact on the growth and 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?**

No, this bridge is not a significant example of its type.

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

This bridge does not retain the integrity of its primary character defining elements. Numerous repairs have occurred to the superstructure including the replacement of the steel stringers.

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

No further study of this bridge is warranted. This bridge does not appear to have retained the integrity of the primary character defining elements as defined by the Context Addendum, and it is not eligible for inclusion on the National Register of Historic Places.

**Bibliography:**

Greiner, Inc.

1995 Maryland Inventory of Historic Bridges.

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

1994 Historic Bridges in Maryland: Historic Bridge Context.

State Highway Administration

v.d. Bridge Inspection files.

United States Geological Survey

1963 7.5' Leonardtown Quadrangle, photorevised 1984.

United States Geological Survey

1901 15' Leonardtown Quadrangle.

**Surveyor:**

**Name:** Jason D. Moser **Date:** September 1995

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

**Address:** 2323 West Joppa Road Brooklandville, MD 21022

INDIVIDUAL PROPERTY/DISTRICT  
MARYLAND HISTORICAL TRUST  
INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Bridge No. 18027 Survey Number: SM-518

Project: MD 470 over Tomakokin Creek Agency: SHA

Site visit by MHT Staff:  no  yes Name \_\_\_\_\_ Date \_\_\_\_\_

Eligibility recommended \_\_\_\_\_ Eligibility **not** recommended

Criteria:  A  B  C  D Considerations:  A  B  C  D  E  F  G  None

Justification for decision: (Use continuation sheet if necessary and attach map)

Based on the available information, Bridge No. 18027, MD 470 over Tomakokin Creek, south of Dynard in St. Mary's County, does not appear to meet the National Register Criteria for individual listing. The 25-foot, single span, steel beam bridge was constructed in 1934. The bridge has a timber deck and timber substructure. An example of a common 20th century bridge type, the bridge does not appear to retain sufficient integrity to warrant listing. The inventory form, prepared September 1995, contains conflicting information regarding the integrity of the bridge. It suggests that the superstructure may have been replaced at some point. It also describes recent repairs, including strengthening the beams with angles. SHA maintains that the bridge is severely deteriorated. Based on the minutes from the January 19, 1996 interagency bridge committee meeting, the committee concluded that the bridge lacked integrity and was thus ineligible for the National Register. The bridge is not known to have any association with significant people or events. It is not located in a known historic district.

The bridge is slated for replacement.

Documentation on the property/district is presented in: Project File, Inventory form  
SM-518

Prepared by: Jason D. Moser (SHA) - 9/95 inventory form

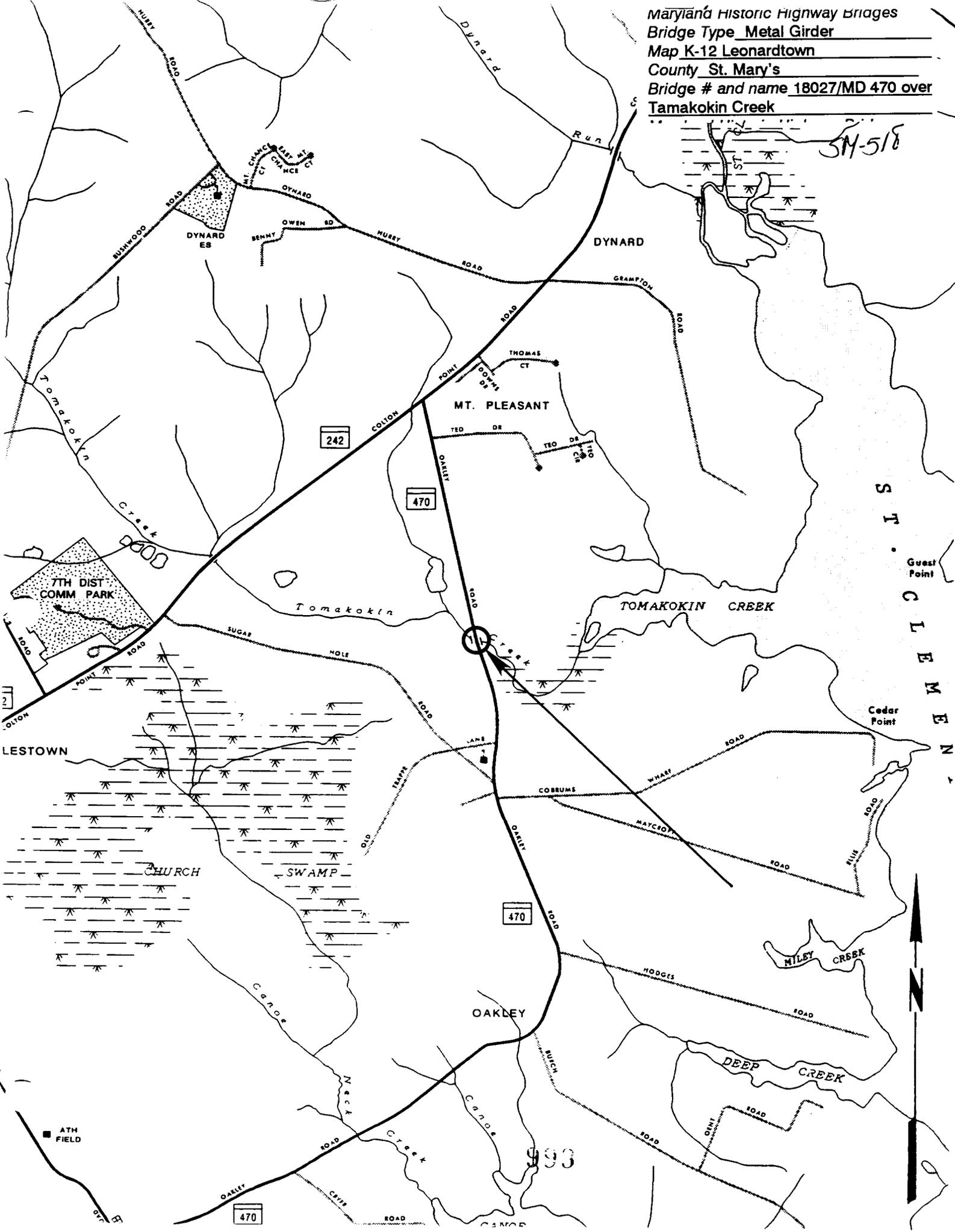
Elizabeth Hannold November 1, 1996  
Reviewer, Office of Preservation Services Date

NR program concurrence:  yes  no  not applicable  
[Signature] 11/1/96  
Reviewer, NR program Date

*gmg*

Maryland Historic Highway Bridges  
Bridge Type Metal Girder  
Map K-12 Leonardtown  
County St. Mary's  
Bridge # and name 18027/MD 470 over  
Tamakokin Creek

SM-518





SM-518

ST MARYS COUNTY

D. BHAUMIK

2-1-95

MARYLAND SHPO SHA

MD 470 OVER TOMAKOIKIN CREEK

LOOKING NORTH ON MD 470

(BRIDGE 13027)



2 OF 4

SM-518  
ST MARYS COUNTY  
D. BHAUMIK

2-1-95  
MARYLAND - SUPD  
MD 470 OVER TOMAKOKIN CREEK  
LOOKING SOUTH ON MD 470  
(BRIDGE 18027)



SM-518

ST MARYS COUNTY

D. BAUMIK

2-1-95

MARYLAND SHPO

MD 470 OVER TOMAKOEN CREEK

LOOKING WEST (DOWNSPREAM FACE)

(BRIDGE 18027)



SM-518

4 OF 4

ST MARYS COUNTY

D. BHAUMIK

2-1-95

MARYLAND SHPO 543

MD 470 OVER TOMAKOKIN CREEK

LOOKING EAST (UPSTREAM FACE)

(BRIDGE 18027)