## BA-1139

# Bridge BC 6510, Warren Bridge

## **Architectural Survey File**

This is the architectural survey file for this MIHP record. The survey file is organized reverse-chronological (that is, with the latest material on top). It contains all MIHP inventory forms, National Register nomination forms, determinations of eligibility (DOE) forms, and accompanying documentation such as photographs and maps.

Users should be aware that additional undigitized material about this property may be found in on-site architectural reports, copies of HABS/HAER or other documentation, drawings, and the "vertical files" at the MHT Library in Crownsville. The vertical files may include newspaper clippings, field notes, draft versions of forms and architectural reports, photographs, maps, and drawings. Researchers who need a thorough understanding of this property should plan to visit the MHT Library as part of their research project; look at the MHT web site (mht.maryland.gov) for details about how to make an appointment.

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Last Updated: 06-23-2004

Maryland Historical Trust

Maryland Inventory of Historic Properties number: BA-2734 BA-1139

Name: MARREN 12D, OVEZ LOCH RAVEN BESSZIDIE

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.

Eligibility Recommended MARYLAND HISTORICAL TRUST  Eligibility Not Recommended				
Criteria:ABC	D Considerations:ABCDEFGNe	one		
Comments:				
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001			
Reviewer, NR Program:Peter	E. Kurtze Date:3 April 2001			

Fred

## MHT No. BA-2734

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/ MARYLAND HISTORICAL TRUST

SHA Bridge No. BC 6510	Bridge name Warren Road over Loch Raven Reservoir
LOCATION: Street/Road name and number [	facility carried] Warren Road
City/town Cockeysville	Vicinity x
County Baltimore	
This bridge projects over: Road	Railway Water x Land
Ownership: State County	Municipal x Other
HISTORIC STATUS: Is the bridge located within a des National Register-listed o Locally-designated distri	ignated historic district? Yes No_ listrict National Register-determined-eligible district  Other
Name of district	
BRIDGE TYPE: Timber Bridge: Beam Bridge:	Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge	
Metal Truss Bridgex	
V CI CICALI ZIIIC	Bascule Single Leaf Bascule Multiple Leaf Pontoon
Metal Girder :  Rolled Girder _ :  Plate Girder _ :	Rolled Girder Concrete Encased Plate Girder Concrete Encased
Metal Suspension	
Metal Arch	
Metal Cantilever	
Concrete Concrete Arch Other Type	Concrete Slab Concrete Beam Rigid Frame

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<b>DESCRIPTION:</b>		*	
Setting: Urban	Small town	<b>Rural</b> x	
Describe Setting:	-	<del></del>	

Bridge BC6510 carries Warren Road over Loch Raven Reservoir approximately 2-1/4 miles east of York Road in the vicinity of Cockeysville. Warren Road runs generally in a north/south direction in the area while Gunpowder Falls flows to the east. The bridge is situated within the Loch Raven Reservoir. The area is relatively undeveloped with no buildings around the bridge.

## **Describe Superstructure and Substructure:**

Bridge BC6510 is a three span, Parker through truss measuring 624 feet in total length. The endposts are vertical. Each span has 9 panels. The top chord is a built-up section of 2 channels with cover plate and lattice bars. The bottom chord consists of rolled sections. The floor system has I-beam stringers and floorbeams. The verticals consist of 2 channels with lacing bars. The end diagonals are rivetted paired angle sections and other diagonals consist of angles and lacing bars. All connections are rivetted with gusset plates. The clear width of the roadway is 20'-0". There is no sidewalk on the bridge and the truss members are protected by a rivetted guardrail consisting of angles and lattice bars. The bridge crosses the stream at a 90 degree alignment. The abutments and wingwalls are concrete. There are also ornamental, panelled concrete parapets on the approaches to the truss spans. There are two plaques on the bridge, one identifying the builder as the Phoenix Bridge Company of Phoenixville PA, and construction date as 1922. The portals have a plaque showing "Baltimore City".

## **Discuss Major Alterations:**

Baltimore City inspection files note that the stringers were replaced and the floorbeams were repaired sometime prior to 1995.

## **HISTORY:**

WHEN was the bridge built	1922		
This date is: Actual X		<b>Estimated</b>	
Source of date: Plaque X	Design plans	County bridge files/inspection form	
Other (specify):		·	

#### WHY was the bridge built?

The bridge was built as part of the enlargement of the Loch Raven reservoir. A new dam, north of the original 1881 dam, was completed in 1922 to elevate the water level to 240 feet and increase the water supply available to the city of Baltimore. (See significant events, below). Bridge BC6510 was built to carry Warren Road over the reservoir which resulted from building the dam. Historic maps show that Warren Road crossed the Gunpowder Falls (at that time a narrow stream) at about the same location prior to the dam's flooding of the area.

#### WHO was the designer?

Unknown

#### WHO was the builder?

Phoenix Bridge Company of Phoenixville, Pennsylvania.

#### WHY was the bridge altered?

To maintain the load carrying capacity of the bridge.

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## Was this bridge built as part of an organized bridge-building campaign?

Bridge BC 6510 was built as part of the Loch Raven reservoir enlargement, a City of Baltimore water supply expansion project.

## SURVEYOR/HISTORIAN ANALYSIS:

This bridge may ha	ave National	Register signification	nce for its as:	sociation with:
A - Events		<b>B- Person</b>		
C- Enginee	ering/archite	ctural character	X	

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

Loch Raven Reservoir is part of the water supply system of the City of Baltimore. Up until the middle of the nineteenth century water was furnished to the city by the Baltimore City Water Company which brought the water from the Jones Falls.

As early as 1836, the Gunpowder Falls was considered as a new source of city water, suggested by John Randall, a civil engineer. In 1854, plans began for this expansion with the purchase of the Baltimore Water Company by the City of Baltimore. After studying the Gunpowder, it was determined that the most suitable place to tap the water supply was at a point on the estate of Robert Gilmore (Glen Ellen) called Ravens Rock (hence, the name Loch Raven).

In 1866, Mayor John Lee Chapman, also head of the Water Department, received permission to buy land around Loch Raven. In 1874, an ordinance was passed creating a permanent water supply for the City of Baltimore at Loch Raven. Construction of the dam and waterworks began in 1875 and was competed in 1881. The water supply system consisted of the dam and reservoir at Loch Raven, and a tunnel for delivering water to two distributing reservoirs: Lake Montebello and Lake Clifton.

The water supplied by Loch Raven and Jones Falls was adequate for Baltimore until the first decade of the twentieth century. A new Loch Raven dam was started in 1912, however the city had difficulty acquiring land needed in order to raise the elevation of the new dam to the desired 240 feet. It was not until 1922 that all of the required property had been bought and annexed. Along with the crossroads of Warren, Bosley and Sweet Air, the little town of Warren was the principal purchase of the city. Warren, a company town of the Summerfield Baldwins Manufacturing Company, was sold to the city for one million dollars.

The upper dam at Loch Raven was completed in 1922. A new tunnel was built to link up with the old one. Water travels through this tunnel, which is 12 feet in diameter and 7 miles long, to the Montebello filtration plant.

Bridge BC6510 was built in 1922 to carry Warren Road across the reservoir. Historic maps of the area indicate that Warren Road was upgraded to the east of the crossing as part of this building campaign.

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?

The bridge and the newly extended Warren Road facilitated access to the area east of the Gunpowder Falls. Loch Raven Reservoir is both a municipal water supply and a recreational area, providing areas for fishing, boating, hiking and picnicking. This bridge has facilitated access to the reservoir area and promoted growth of the area as a whole.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

The Loch Raven Reservoir area may be eligible for historic designation, and the bridge would add to both the historic and visual character of the potential district.

Is the bridge a significant example of its type?

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The bridge is an unusual example of a through truss with vertical endposts.

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

Bridge BC6510 retains integrity of location, design, setting, materials, workmanship, feeling and association. It possesses integrity of its major components.

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

The bridge is a significant example of the nationally prominent Phoenix Bridge Company of Phoenixville, Pennsylvania.

## Should the bridge be given further study before an evaluation of its significance is made?

No further study is necessary in order to evaluate the significance of this bridge.

### **BIBLIOGRAPHY:**

County inspection/bridge files SHA inspection/bridge files Other (list): Baltimore City inspection/bridge files

County survey files of the Maryland Historical Trust

Baltimore County Historical Society files

Baltimore County Library vertical files

P.A.C. Spero & Company and Louis Berger & Associates, *Historic Highway Bridges in Maryland: Historic Context Report*. Prepared for the Maryland State Highway Administration.

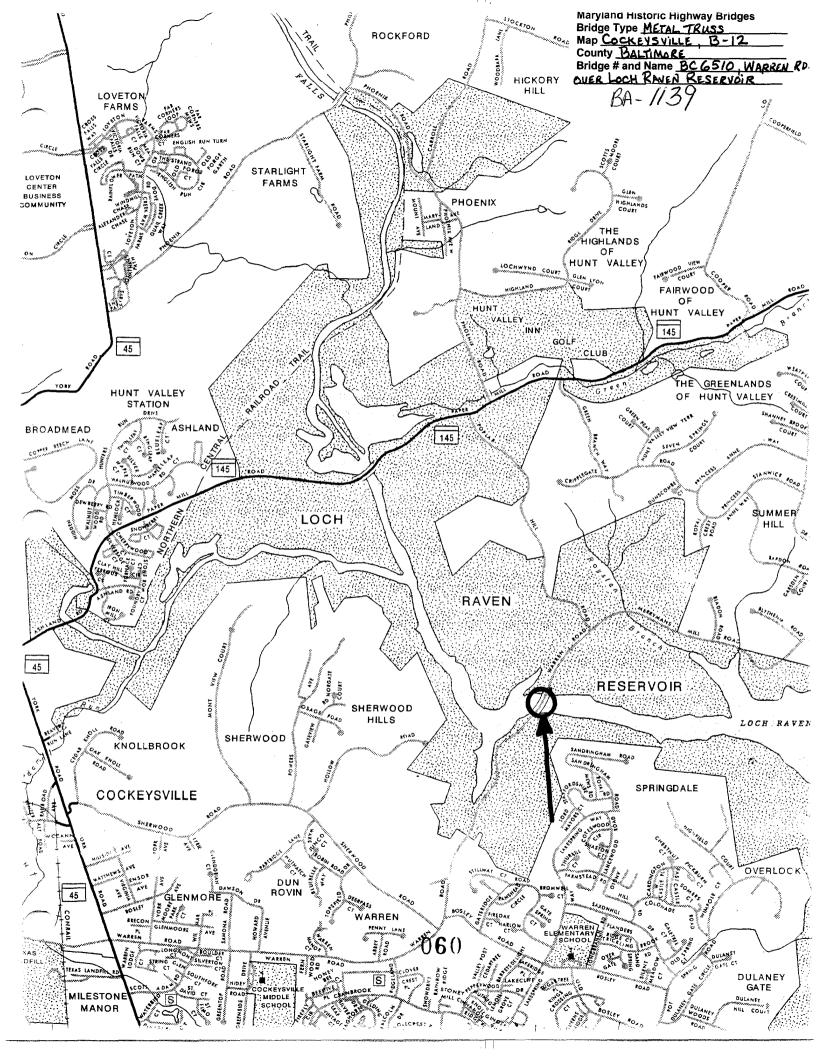
### **SURVEYOR:**

Date bridge recorded January 1996

Name of surveyor P.A.C. Spero/C.R.Farr
Organization/Address P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Suite 412, Baltimore, Maryland 21204

**Phone number** 410-296-1635

**FAX number** 410-296-1670





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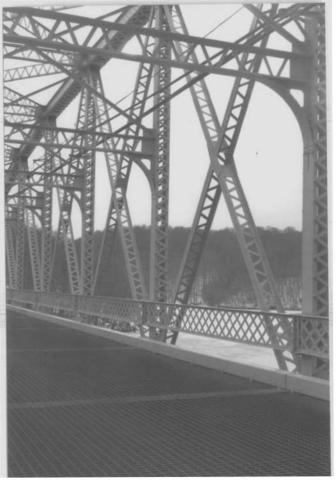
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