Maryland Historical Trust

Maryland Inventory of Historic Properties Number: HO-726.

Name: Folly Quarter Rd over Middle Patuxent 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
Historic Bridge Inventory
Maryland State Highway Administration
Maryland Historical Trust

MHT Number HO-726

SHA Bridge No. HO 20 **Name:** Folly Quarter Road over Middle Patuxent River

Location:

Street/Road Name and Number: Folly Quarter Road

City/Town: Locust Ridge **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_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_____

Describe Setting:

Bridge HO-20 carries Folly Quarter Road over the Middle Patuxent River. Folly Quarter Road runs north-south over the eastern flowing Middle Patuxent. The bridge is in a rural section of Howard County at the University of Maryland Central Farm. There is no commercial development around the bridge and sparse residential settlement. The bridge carries 2 lanes of traffic in opposing directions.

Describe Superstructure and Substructure:

Bridge HO-20 is a single span filled concrete arch bridge. The length of the bridge is 64 feet with a clear span measuring 60 feet at the spring line. The bridge has a rise of approximately 13 feet from springline to the crown. The rise to run ratio is 21 percent. The spandrel walls are approximately 14 feet by 8 feet. The wingwalls are approximately 10 feet by 8 feet. There is a clear roadway width of 24 feet, with an overall bridge width of 26 feet 8 inches. The spandrel walls have severe deterioration on the eastern slope. The arch ring has fine vertical cracking and some signs of efflorescence. According to a 1994 inspection report, the bridge is in satisfactory condition, with a sufficiency rating of 76.2.

Bridge HO-20 has its original parapets. The builders used a closed parapet design. This reinforced concrete parapet 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 posts and rails were built in place. The panels are separated by solid paneled expansion joints. The parapets are in a single section and are in fair condition with moderate spalling at the construction joints.

Discuss Major Alterations:

There have been no major alterations to this structure.

History:
When Built? 1922
Why Built? To replace a bridge destroyed in a flood.
Who Built? Luten Bridge Company, York, PA
Who Designed? Luten Bridge Company, York PA
Why Altered? N/A
Was this bridge built as part of an organized bridge building campaign?
No, Bridge HO-20 was not built as part any state bridge building campaign.

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 March 1996.

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

Between 1920 and 1923 most of the State Roads Commission work in Howard County was west of the Baltimore and Washington Blvd (US 1). During this period, a total of approximately 11 miles was built under the 1920 State Roads Act. Included in this construction was the completion of the gap on the Clarksville Pike from Elioak to Clarksville; 4 miles of road from Cooksville towards Olney; 1 mile from the National Pike to connect Folly Quarter Road; and about ¼ mile along Main Street in Ellicott City. In the summer of 1922 a 60-foot concrete arch with a 24-foot roadway was built over the Middle Patuxent River on Folly Quarter Road to replace a bridge carried away by a flood on July 17, 1922. The State Roads Commission contracted the Luten Bridge Company to complete the project.

The Luten Bridge Company of York, PA, was incorporated in 1909 as a contracting concern specializing in the designs of Daniel Luten. It grew to be the largest of Luten's loosely affiliated corporations and operated offices in Clarksburg, WV; Concord, NH; Columbus, OH; Chatsworth, GA; and Syracuse, NY. Daniel Luten specialized in reinforced concrete bridges. His designs dominated the market and were copied (under patent protection) and used throughout the eastern United States.

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 that is eligible for historic designation.

Is the bridge a significant example of its type?

Yes the bridge is a documented and good example of a concrete arch bridge built by the Luten Bridge Company of York, Pennsylvania.

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

Yes this bridge retains integrity of its character defining elements.

Is the 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 Luten Bridge Company, of York, Pennsylvania.

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 _____X_____ **SHA inspection/bridge files** _____
Other (list):

Johnson, Arthur Newhall
1899 The Present Condition of Maryland Highways. In *Report on the Highways of Maryland.* Maryland Geological Survey, The Johns Hopkins University Press, Baltimore.

P.A.C. Spero & Company and Louis Berger & Associates
1995 Historic Highway Bridges in Maryland: 1631-1960: Historic Context Report. Maryland State Highway Administration, Maryland State Department of Transportation, Baltimore, Maryland.

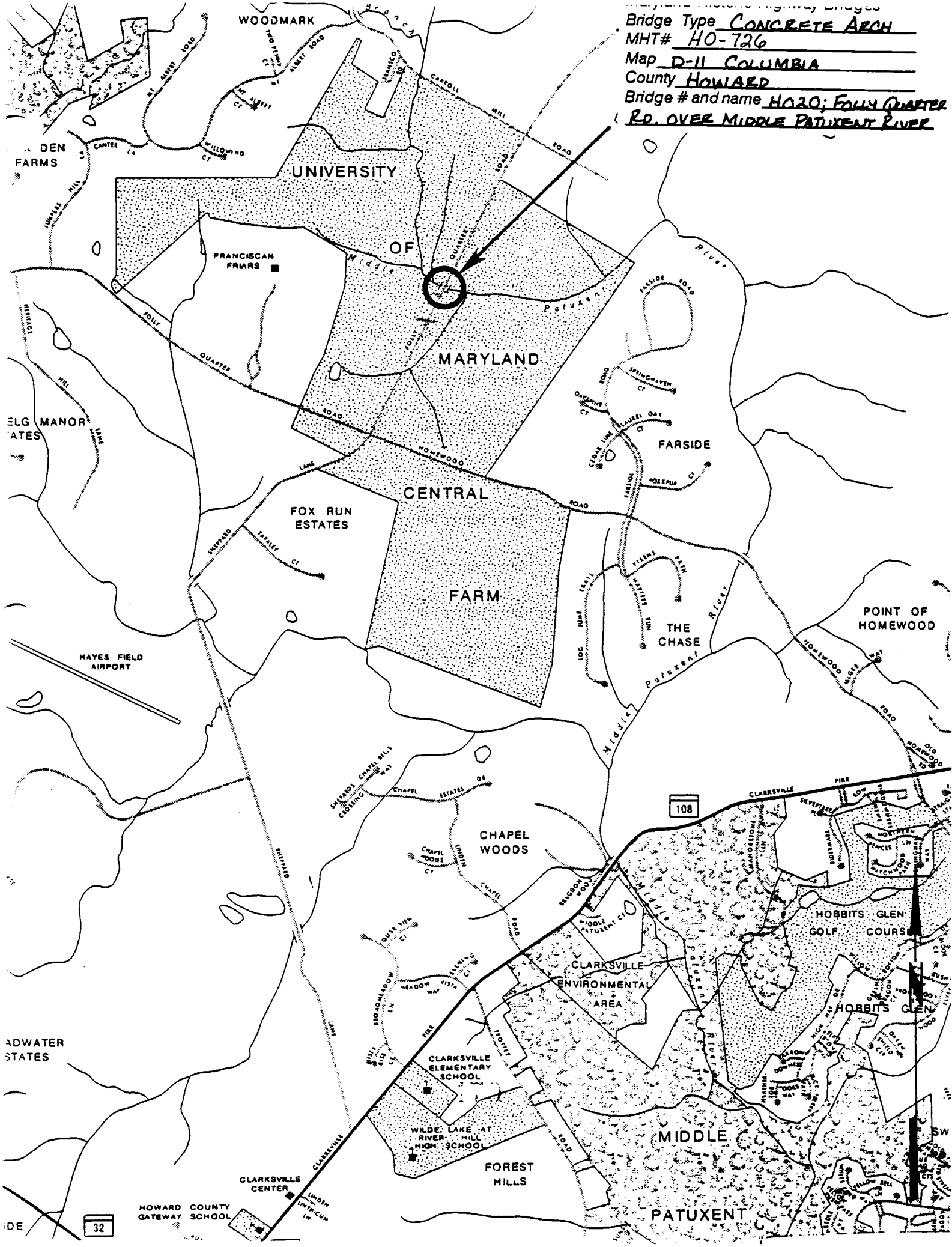
Tyrrell, H. Grattan
1909 *Concrete Bridges and Culverts for Both Railroads and Highways*. The Myron C. Clark Publishing Company, Chicago and New York.

SURVEYOR:

Date bridge recorded December 1997
Name of surveyor Wallace, Montgomery & Associates / P.A.C. Spero & Company
Organization/Address P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Baltimore, MD 21204
Phone number (410) 296-1635 **FAX number** (410) 296-1670

Maryland Historic Highway Bridges

Bridge Type CONCRETE ARCH
MHT# HO-726
Map D-11 COLUMBIA
County HOWARD
Bridge # and name HO20; FOLLY QUARTER RD. OVER MIDDLE PATUXENT RIVER



Inventory # HO-726

Name ~~H~~020 - FOLLY QUARTER RD OVER MIDDLE PATUXENT RIVER

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description SOUTH APPROACH LOOKING NORTH

Number ~~33~~ 1 of ~~33~~ 6

Inventory # HO-726

Name HO20-POLLY QUARTER RD OVER MIDDLE PATUXENT RIVER

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description NORTH APPROACH LOOKING SOUTH

Number ~~34~~ 2 of ~~33~~ 6

Inventory # HO-726

Name HO20-FOLLY QUARTER RD. OVER MIDDLE PATUXENT RIVER
County/State HOWARD / MD
Name of Photographer DAVID DIEHL
Date 2/95

Location of Negative SHA

Description WEST ELEVATION LOOKING SOUTH EAST

Number ~~28~~ 36 of ~~35~~

Inventory # HO-726

Name HO20 - FOLLY QUARTER RD OVER MIDDLE PATUXENT RIVER

County/State HOWARD / MD

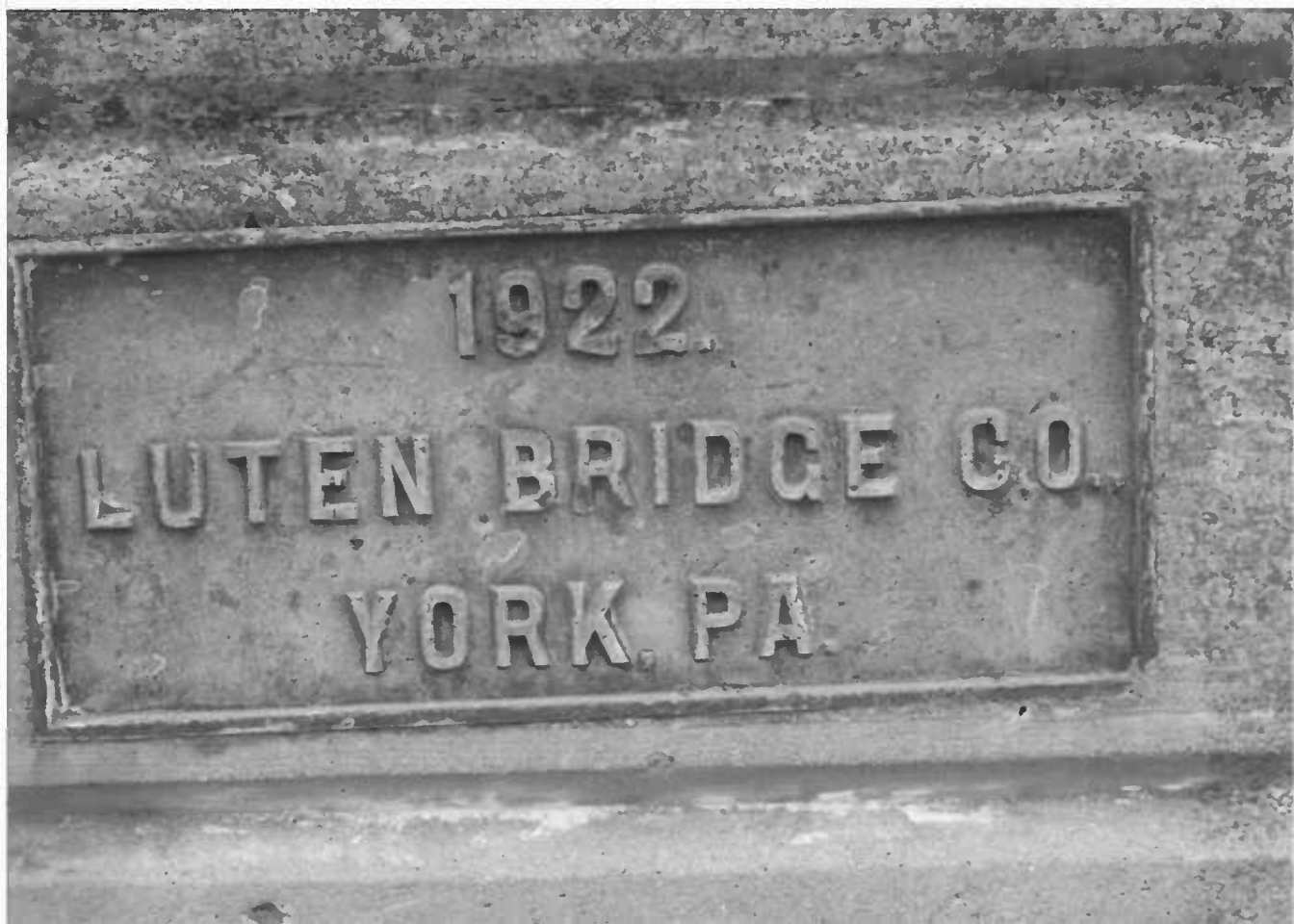
Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description EAST ELEVATION LOOKING NORTHWEST

Number ~~3~~ 4 of ~~3~~ 6


1922
LUTEN BRIDGE CO.
YORK, PA.

Inventory # HO-726

Name HO20-Folly Quarter Rd over Middle Patuxent River

County/State Howard | MD

Name of Photographer David Diehl

Date 2/95

Location of Negative SHA

Description Plaque 1 on Parapet

Number ~~27~~ 5 of 33 6

MIDDLE PATUXENT RIVER BRIDGE
BUILT - 1922
STATE ROADS COMMISSION
JOHN N. MACKALL CHAIRMAN & CHIEF ENG'R.
OMAR D. CROTHERS
D.O. WINEBRENER
L. H. STEUART SECRETARY

Inventory # HO-726

Name HO20-FOLLY QUARTER RD OVER MIDDLE PATUXENT RIVER

County/State HOWARD / MD

Name of Photographer DAVID DIEHL

Date 2/95

Location of Negative SHA

Description PLAQUE 2 ON PARAPET

Number ~~26~~ 6 of ~~23~~ 6