### **Maryland Historical Trust**

Maryland Inventory of Historic Properties number:

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.					
	ligibility Not Recommended				
Criteria:ABCD Considerations:A  Comments:	B _ C _ D _ E _ F _ G _ None				
Reviewer, OPS:_Anne E. Bruder  Reviewer, NR Program:Peter E. Kurtze	Date:3 April 2001 Date:3 April 2001				

They

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

MHT No. <u>HA-1579</u>

SHA Bridge No. 12033	Bridge name Priest Ford Road Pony T	russ Bridge
<u>LOCATION:</u> Street/Road name and numbe	er [facility carried] <u>MD 136</u>	
City/town Trappe		Vicinity
County Harford		
This bridge projects over: Ro	oad Railway Water <u>x</u>	Land
Ownership: State X	County Municipal Other	
National Register-list	a designated historic district? Yes ted district National Register-determined strict Other	l-eligible district
Name of district		
BRIDGE TYPE: Timber Bridge: Beam Bridge	_ Truss -Covered Trestle Timber	r-And-Concrete
Stone Arch Bridge	_	
Metal Truss Bridge <u>x</u>	_	
Movable Bridge: Swing: Vertical Lift	Bascule Single Leaf Bascule Mi Retractile Pontoon	ıltiple Leaf
Metal Girder Rolled Girder Plate Girder		
Metal Suspension	_	
Metal Arch		
Metal Cantilever	_	
Concrete	:	11.11 F
Concrete Arch		xigio r rame
Otner Typ	pe Name	<u></u>

147-1579

DESCRIPTION: Setting: Urban	Small town	Rural <u>X</u>	
town of Trappe. Route 136 runs flows to the east. The bridge is	generally in a north/south di situated in a forested valley	a approximately one mile south of lirection in the area while Deer C y with pastures. The area is relat e. Aberdeen Tank Proving Groun	reek ively
measuring 12'-6" and inclined end plates and lattice bars. The botto plates and lattice bars. The floor verticals and diagonals are rolled is 22'-8" between centerline of tre	dreen pony truss measuring 1 dposts. The top chord is a bom chord is a built-up section system comprises I-beam s sections. All connections a susses. There is no sidewalk The bridge has a 90 degree.	100 feet in total length. It has 8 parbuilt-up section of channels with con of two channels connected with stringers and I-beam floorbeams. The rivetted. The width of the road on the bridge and the truss member alignment to the streambed.	stay The dway
abutments, which were then under	erpinned and concrete was a	in 1950 severe floods undermined added. In 1986, the deck was replay orbeams, and in 1991 3 truss mem	aced,
HISTORY: WHEN was the bridge built 193 This date is: Actual X Source of date: Plaque Other (specify): State bridge file	Estimated Cou	nty bridge files/inspection form _	
WHY was the bridge built? The bridge was built as part of bridge.	an improvement on MD Ro	oute 136, to replace an existing	truss

### WHO was the designer?

State Roads Commission

### WHO was the builder?

Unknown

### WHY was the bridge altered?

Alterations were necessary to maintain the structural integrity of the substructure and to maintain the superstructure.

Was this bridge built as part of an organized bridge-building campaign? It is not known whether Bridge 12033 was built as part of an organized bridge-building campaign.

#### **SURVEYOR/HISTORIAN ANALYSIS:**

This bridge may have	National	Register significance	for its	association	with:
A - Events	X	B- Person		_	
C- Engineering	g/architec	tural character	X	_	

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

This bridge was one of a small but significant number of metal truss bridges erected in Maryland from the 1920s through the 1940s. Its heavy, solidly configured members and wider deck reflects continuing advances in metal truss construction in response to heavier loads. Thus configured, the metal truss bridge continued to be designed for major crossings. Such bridges were built throughout the state during the period, particularly in the 1930s.

### General Truss Bridge Trends

The first metal truss bridges in the United States were built to carry rail and canal traffic. A rapidly expanding railroad network, with needs for long spans, heavy load capacity and rapid construction, served as the impetus for advances in metal truss technology from the mid-nineteenth century to its close. The earliest metal truss forms of the United States were patented and introduced between 1830 and the Civil War, including the popular Pratt (1844) and Warren (1848) types.

From the Civil War through the end of the century metal truss technology improved in response to increasing loads and speeds, and new transportation needs; steel began to replace iron; numerous "bridge works" and "iron works" were established in the eastern U.S. for fabricating and shipping the truss components to the bridge site; and expanding road networks required a low cost, expedient bridge type.

### General Trends in Maryland

In Maryland, the earliest metal truss bridges carried rail lines, including the Baltimore & Ohio (B&O) and the Baltimore and Susquehanna Railroads. As early as 1849, B&O Chief Engineer Benjamin H. Latrobe recommended the construction of metal truss bridges for "large crossings"; in 1850 he reported "much satisfaction" with the future of iron bridges after constructing the metal truss bridge at Savage.

Numerous metal truss bridges were manufactured in Baltimore, the early industrial hub of bridge building activity in the state, from the 1850s through the 1880s. Among the early bridge builders in the 1850s and 1860s were former B&O employees, B.H. Latrobe and Wendell Bollman, founders of competing Baltimore bridge building companies. Historical research identified more than twenty-five bridge companies that built truss bridges in the state between 1850 and 1920. Among these were the Wrought Iron Bridge Company, King Iron Bridge Company, Patapsco Bridge and Iron Works, Baltimore Bridge Company, Pittsburg Bridge Company, Penn Bridge Company, Smith Bridge Company, Groton Bridge and Manufacturing Company, Roanoke Iron and Bridge Company, York Bridge Company, Vincennes Bridge Company, Bethlehem Steel Company, American Bridge Company.

The location of the Baltimore & Ohio Railroad, Baltimore bridge fabricators, and the urban needs of the city and its environs resulted in the erection of numerous early truss bridges in Baltimore and the surrounding area. Initially constructed for the railroads, their use quickly came to replace the earlier timber bridges on Baltimore roads.

From Baltimore, the use of the metal truss spread to other parts of the state, with County Commissioners in the Piedmont and Appalachian Plateau counties erecting numerous metal trusses from the 1870s to the early twentieth century.

Metal trusses built in the late nineteenth century were frequently of wrought iron construction and featured pinned connections. By the turn of the century, steel was the material of choice and connections were sometimes pinned and sometimes rivetted. By 1920, the truss type exhibited more heavily configured members and riveted connections.

### **Harford County Trends**

Nine extant metal truss bridges were identified in Harford County as a result of SHA's 1994-1995 historic bridge survey:

H-1, single span Pratt through truss built in 1884

H-54, single span Pratt truss built c. 1889-1897

H-53, single span Pratt pony truss built c. 1885-1900

H-58, single span Pratt through truss built in 1886

H-94, single span Pratt through truss built c. 1885-1900

H-160, single span Pratt through truss built in 1883

12016, single span Pratt truss built in 1934

12033, single span Warren pony truss built c. 1930

12052, 2 Pratt spans built in 1927

# 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?

This metal truss bridge would have facilitated travel in this area of Harford County. The construction of two-lane highways and bridges in the 1920s and 1930s had a significant impact on local growth, as well as regional development.

# 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 bridge is not located in an area which may be eligible for historic designation.

### Is the bridge a significant example of its type?

The bridge is a good example of a standardized twentieth century pony truss.

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

Bridge 12033 retains integrity of location, design, setting, materials, workmanship, feeling and association. Its components appear to be intact.

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

Should the bridge be given further study before an evaluation of its significance is made? Bridge 12033 is listed in the Maryland Historical Trust's Inventory of historic sites. No further study is recommended.

### **BIBLIOGRAPHY:**

County inspection/bridge files  $\underline{X}$ 

Other (list):

County survey files of the Maryland Historical Trust

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 February 1996

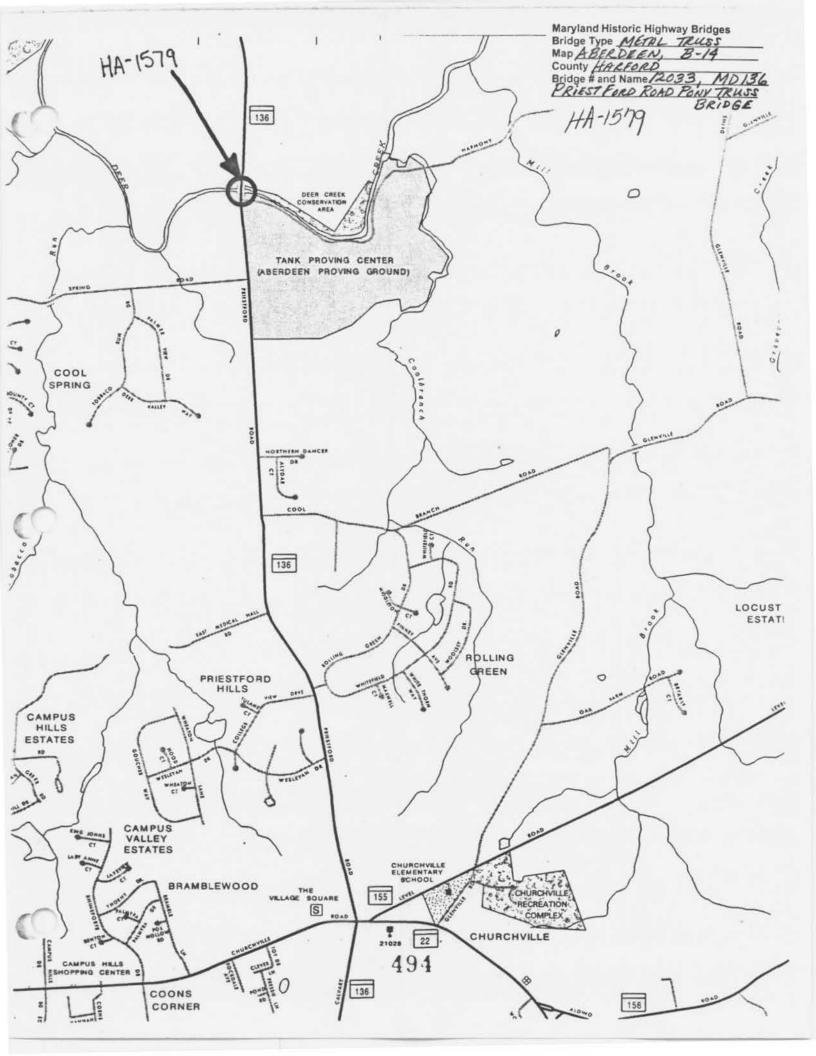
Name of surveyor P.A.C. Spero/Colin Farr

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





SOISTH HEREDACH : 1, + ford Pony Tous Brige 3) Harford 4) Colin Fall DF, M. C. Speriod ( Empany, Source, IND 91204 1) Priest Ford Pong True Birter South



2) Prust Ford Por Trus Budge 4) Colon Farr



1) Hust Jard Pony Irus Budge 3) Harford 4) Colin Jair 9) Prest Ford Pony Truss Budge, list evertion



UNDIEZ DECK 1) HA - 1579 2) Prust I and Pony Trus Budge 3) Harford 4) Colin Jaw 6) P.A.C. Spero - Company Lower MD 21202 DRound Ford Pany Trum Budge, inderdech



D) Kick Jord Pong Truss Bridge 3) Harford 4) Colin Farr 6) RA.C. Spent Company , Jowson, ND 21204 I Prust Ford Pony Just Budge, Top Chord 8)5 97 01741 194 1033



1) HA-1592 2) Prust Tord Pory Just Budge 3) Harfor 5) Jeb 1996 6 PAC Spiro & Company, Lowson N 21204 1) Priest Lord Pory Truss Bridge upper



BRIDGE # 2) Prest Gold Pony Speed Bridge 3) Harforg 1) Colin Jan 5) Jeb ruary 1996 6) P.A.C. Spen - Company , Jowson, MD 21204 Derest Ford Pony Just Bridge, acting

HA-1579
Priest Ford Road Pony Truss Bridge
Nobles Mill vicinity
public (unrestricted)

This bridge, which carries Maryland Route 36 over Deer Creek near Nobles Mill, is a single steel pony triangular truss, 100 feet in length. It carries a roadbed with a width of 20 feet.

The Priest Ford Road Pony Truss Bridge is significant as one of the few pony truss bridges which carry state roads. It is one of six historic truss bridges -- part of Maryland's state road system in Harford County, and one of 26 bridges of the same general structural type throughout the state road network -- identified by the Maryland Historical Trust for the Maryland Department of Transportation in a jointly conducted survey which took place during 1980-81.

MACI # 1315743817

## INVENTORY FORM FOR STATE HISTORIC SITES SURVEY

221125				
NAME				
HISTORIC				
AND/OR COMMON				
	Road Pony Truss Bridge			
2 LOCATION	<del></del>			
STREET & NUMBER	•			
SINCE & NUMBER				
CITY, TOWN			CONGRESSIONAL DISTRI	СТ
South of Nobi	les Mill	VICINITY OF	lst	
Maryland			Harford	
CLASSIFIC	ATION			
CATEGORY	OWNERCHIR	CTATUC	DDEC	ENT USE
DISTRICT	OWNERSHIP  X_PUBLIC	STATUS  XOCCUPIED	AGRICULTURE	MUSEUM
BUILDING(S)	PRIVATE	UNOCCUPIED	COMMERCIAL	PARK
<b>X</b> STRUCTURE	BOTH	WORK IN PROGRESS	EDUCATIONAL	PRIVATE RESIDENCE
SITE	PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
OBJECT	IN PROCESS	YES RESTRICTED	GOVERNMENT	SCIENTIFIC
	BEING CONSIDERED	_XYES: UNRESTRICTED	INDUSTRIAL MILITARY	XTRANSPORTATIONOTHER
OWNER O	F PROPERTY			
NAME State Hi	ghway Administration D	OT Survey	Telephone #:	
STREET & NUMBER 301 West	Preston Street			
CITY TOWN Baltimor	Δ		STATE, Z Maryland 212	ip code
		VICINITY OF		
LOCATION	N OF LEGAL DESCR	IPTION	Liber #:	
COURTHOUSE.	ETC Harford County Cou	rthouse	Folîo #:	
STREET & NUMBER	ele harrord country cou	Timouse		
STREET & NOW DEN				
CITY TOWN	<del> </del>		STATE Manual and	
Bel Air			Maryland	
6 REPRESEN	ITATION IN EXIST	ING SURVEYS		
TITLE				
DATE				
DAIL		FEDERAL	_STATE _COUNTY _LOCAL	
DEPOSITORY FOR				
SURVEY RECORDS  CITY, TOWN			STATE	
CITT, TOWN			SIAIE	



W-1577

CONDITION

**CHECK ONE** 

CHECK ONE

\_\_EXCELLENT

\_\_DETERIORATED \_\_RUINS

X\_UNALTERED
\_\_ALTERED

X\_ORIGINAL SITE

\_\_FAIR

\_\_UNEXPOSED

\_\_MOVED DATE\_\_\_

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

This bridge, which carries Maryland Route 36 over Deer Creek, is a single steel pony triangular truss, 100' in length. The road runs north and south, and is 20' wide as it crosses the bridge. All connections are riveted.

# 8 SIGNIFICANCE



SPECIFIC DAT	ES 1931	BUILDER/ARCHITECT probably built according to in house designs of the State Roa Commission.		
		INVENTION	•	
<b>X</b> 1900-	COMMUNICATIONS	INDUSTRY	POLITICS/GOVERNMENT	_OTHER (SPECIFY)
_1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	X. TRANSPORTATION
1700-1799	ART	X_ENGINEERING	MUSIC	THEATER
1600-1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
_1500-1599	AGRICULTURE	_ECONOMICS	LITERATURE	SCULPTURE
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	SCIENCE
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
PERIOD	AF	REAS OF SIGNIFICANCE CH	IECK AND JUSTIFY BELOW	

One of the few pony trusses which carry state roads. See also M/DOT general bridge significance, attached.

9 MAJOR BIBLIOGRAPHICAL REFERENCES

WR-1579

Files of the Bureau of Bridge Design, State Highway Administration, 301 West Preston Street, Baltimore, Md.

Condit, Carl, American Building Art, 20th Century; New York, Oxford University Press, 1961.

CONTINUE ON SEPARATE SHEET IF NECESSARY

# 10 GEOGRAPHICAL DATA ACREAGE OF NOMINATED PROPERTY \_\_\_

Quadrangle Name: Belair, MD Ouadrangle Scale:

1:24 000

HTM References:

18,391800,4384070

VERBAL BOUNDARY DESCRIPTION

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE

COUNTY

STATE

COUNTY

### II FORM PREPARED BY

NAME - TITLE

John Hnedak/M/DOT Survey Manager

DATE Maryland Historical Trust 1980 STREET & NUMBER TELEPHONE (301) 269-2438 21 State Circle STATE CITY OR TOWN Maryland 21401 Annapolis

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature, to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 Supplement.

The Survey and Inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

RETURN TO: Maryland Historical Trust

The Shaw House, 21 State Circle

Annapolis, Maryland 21401

(301) 267-1438

#### GENERAL BRIDGE SIGNIFICANCE

The significance of bridges in Maryland is a difficult and subtle thing to gauge. The Modified significance criteria of the National Register, which are the standard for these judgements in Maryland, as in most states, must be broadly applied to allow for most of these structures, particular the 50 year rule which specifies a minimum age for structures can be waived, and is more commonly done so for engineering structures than for others, Questions of uniqueness and typicality, exemplary types, etc., must set aside for now, because they presuppose a wider knowledge of the entire resources than is presently available. Indeed, this survey is an initial step toward understanding the extent to which Maryland's bridges are part of her cultural resources. Aesthetic considerations may have to be sidestepped entirely, for such structures as these are generally considered mundane and ordinary at best, and sometimes a negative landscape feature, by the layman. It does take a specialized aesthetic sense to appreciate such structures on visual grounds, but a case for visual significance can The remaining criteria are those of historical The relative youth of most of these strucassociations. tures precludes a strong likelihood of participation to events and lives of import. The best generalization can be made for most bridges is that they are built on site of early crossings, developing from fords and ferries through covered bridges and wooden trusses to their present state, This significance inheres in the site, however, and in most cases would not be diminished by the adsense of the present structure.

These criteria may also be addressed positively. The primary significance of these bridges, those which were built between the two World Wars, consists in their association with rapidly changing modes and trends in transportation in America during the period. The earliest of them saw the appearance of the automobile and its rise as the preëminent means of getting Americans from place to place. Roads were being improved for increased speeds and capacity, and bridges, as potential weak links on the system, became particularly important. The technology for producing them was not new, and would not change significantly during the period. Accordingly, great numbers of easily, quickly and relatively cheaply built concrete slab, beam and arch bridges were built to span the samll crossings, or were multiplied to cover longer crossings where height was no problem.

Truss bridges with major structural members of compound beams, of either the Warren or Pratt types, while more expensive and considered more intrusive on the landscape, were built to span the larger gaps.

With an aesthetic which allowed concrete slab bridges to have classical balustrades, or the application of a jazz-age concrete relief; with the considerable variety possible in the construction of medium sized metal trusses; and with the lack of nationwide standards for highway bridge design, the resulting body of structures displays considerable variety. The sameness of appearance of currently produced highway bridges leads one to believe this variety will not reappear. For that reason alone it is wise to keep watch over our existing bridges. Regardless of ones taste and aesthetic preference, one must be admitted that these older bridges add their variety and visual interest to the environment as a whole, and that it is often the case that their replacement by a standard highway bridge results in a visual hole in the land-scape.

In situations requiring decisions of potential effect on these structures, they should receive some consideration. As the recording and subsequent understanding of Maryland's Cultural resources grows, they will be recognized as a significant part of that heritage.

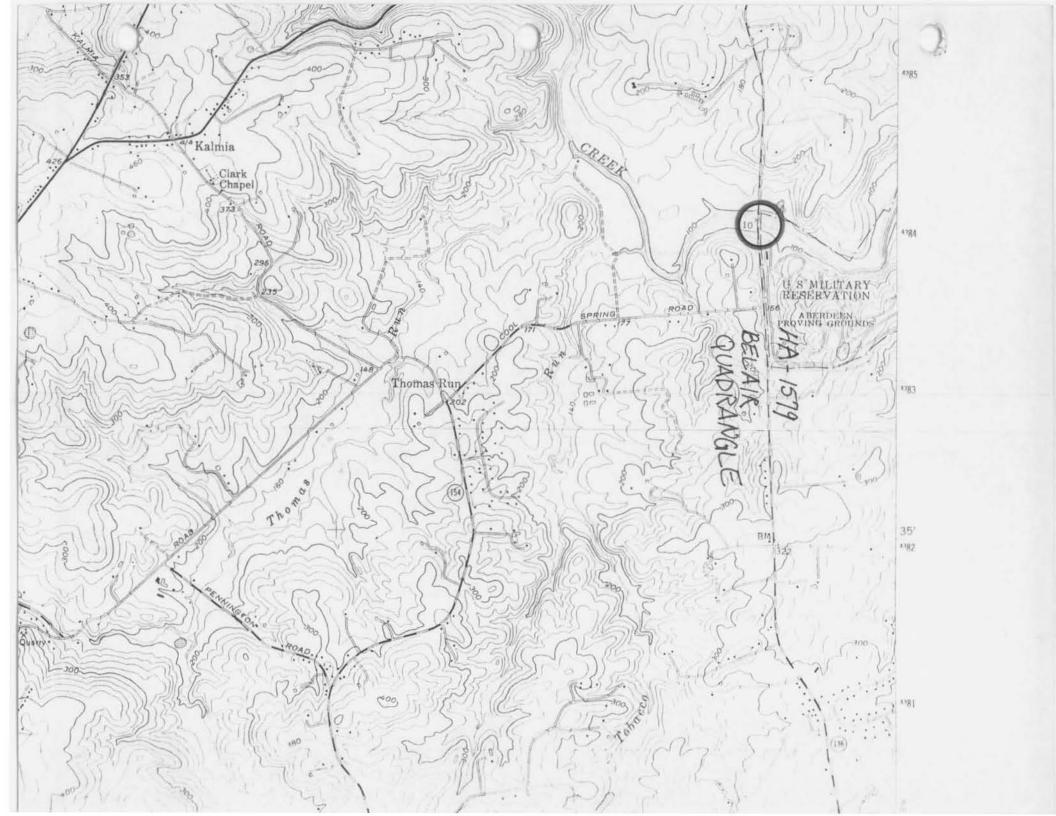
It should be noted that two non-negligible classes of structure have been omitted from this set. The first is the huge number of concrete slab or beam bridges of an average of twenty feet or less in length. These are so nearly ubiquitous and of such minor visual impact (they are often easy to drive across without noticing) that they were not inventoried. They are considered in the general recommendations section of the final report of this survey, however.

The second category is that of the "great" bridges, the huge steel crossings of the major waterways. While they are awesome and aesthetically appealing, they are not included in this inventory because they do not share the problems of their more modest counterparts. They do not lack for recognition, they have not been technologically outmoded, and are in no danger of disappearing through replacement. In a sense, they are not as rare; hundreds of

these great bridges are known nationally, and there is little doubt as to the position of any one bridge within national spectrum. There seems little point in including them with the larger inventory of bridges. From an arbitrary point of view, their dates are outside the 1935 limit which we set for the consideration of bridges. We have departed from that limit on occasion, but will not in this case. These bridges, too, will be considered in the final report.

Moveable bridges deserve a special note regarding their significance. They are rare, and all but the most recent of them have been listed by this survey by virtue of that fact alone. They are, by their nature as intermittent impediments to the smooth flow of traffic, threatened. We rarely tolerate disruptions to what we perceive as our progress. This has been demonstrated recently by the replacement of the drawbridge at Denton, on one of the major routes to the Atlantic Coast from the rest of Maryland.

However much we are inconvenienced by them, we must admit that moveable bridges contribute a share of interest to the landscape. As with significance judgements in general, we here enter a realm which is governed by taste and opinion. Some of us might not enjoy being forced to site back for a while to look at the surroundings which we would otherwise totally ignore, especially if the engine is in danger of boiling over. But there are those who are fascinated by the slow rise of a great chunk of roadway, moved by quit, often invisible machinery; who are amused by the tip of the mast which skims the top of the temporary wall; or who reflect on the nobility inherent in a river and the fact that we have not subdued every waterway with our autos, while knowing that we can if we want to.





HA-1579 Priest ford Bridge M/DOT Hnedak/Meyer Winter 1980