

HistoricBridges.org - National Bridge Inventory Data Sheet

2010 Inventory

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

| | | | | | |
|---|--|---------------------------------|----------------------------|--|----------------------------|
| Pennsylvania [42] | Chester County [029] | East Fallowfield [21104] | MORTONVILLE 29F12/3580F09 | 39-56-48 = 39.946667 | 075-46-48 = - 75.780000 |
| 153062014001430 | Highway agency district 6 | Owner State Highway Agency [01] | Maintenance responsibility | State Highway Agency [01] | |
| Route 0 | | STRASBURG ROAD | Toll On free road [3] | Features intersected W.BR.BRANDYWINE CREEK | |
| Design - main 4 | Masonry [8] Arch - Deck [11] | Design - approach 0 | Other [00] | Kilometerpoint 963.4 km = 597.3 mi | |
| | | | | Year built 1826 | Year reconstructed 2009 |
| | | | | Skew angle 0 | Structure Flared |
| | | | | Historical significance Bridge is eligible for the NRHP. [2] | |
| Total length | 67.1 m = 220.2 ft | Length of maximum span | 18.3 m = 60.0 ft | Deck width, out-to-out | 9 m = 29.5 ft |
| Inventory Route, Total Horizontal Clearance | 7.9 m = 25.9 ft | Curb or sidewalk width - left | 0 m = 0.0 ft | Curb or sidewalk width - right | 0 m = 0.0 ft |
| Deck structure type | Concrete Cast-in-Place [1] | | | | |
| Type of wearing surface | Monolithic Concrete (concurrently placed with structural deck) [1] | | | | |
| Deck protection | Epoxy Coated Reinforcing [1] | | | | |
| Type of membrane/wearing surface | | | | | |

Weight Limits

| | | | | |
|--|--------------------------------------|-----------------------------------|------------------|-----------------------------|
| Bypass, detour length 1.9 km = 1.2 mi | Method to determine inventory rating | Load Factor(LF) [1] | Inventory rating | 32.7 metric ton = 36.0 tons |
| | Method to determine operating rating | Load Factor(LF) [1] | Operating rating | 54.4 metric ton = 59.8 tons |
| | Bridge posting | Equal to or above legal loads [5] | Design Load | M 13.5 / H 15 [2] |

Functional Details

| | | | | | | | | | | |
|---|---------------------------------------|----------------------------|---|---------------------------------------|------|--|------------------------------|-----|------|------|
| Average Daily Traffic | 6215 | Average daily truck traffi | 9 | % | Year | 2010 | Future average daily traffic | 300 | Year | 1993 |
| Road classification | Collector (Urban) [17] | | Lanes on structure | 2 | | Approach roadway width | 7.9 m = 25.9 ft | | | |
| Type of service on bridge | Highway [1] | | Direction of traffic | 2 - way traffic [2] | | Bridge median | | | | |
| Parallel structure designation | No parallel structure exists. [N] | | | | | | | | | |
| Type of service under bridge | Waterway [5] | | Lanes under structure | 0 | | Navigation control | | | | |
| Navigation vertical clearanc | 0 = N/A | | Navigation horizontal clearance | 0 = N/A | | | | | | |
| Minimum navigation vertical clearance, vertical lift bridge | | | | | | Minimum vertical clearance over bridge roadway | 10 m = 32.8 ft | | | |
| Minimum lateral underclearance reference feature | Feature not a highway or railroad [N] | | | | | | | | | |
| Minimum lateral underclearance on right | 0 = N/A | | | | | Minimum lateral underclearance on left | 0 = N/A | | | |
| Minimum Vertical Underclearance | 0 = N/A | | Minimum vertical underclearance reference feature | Feature not a highway or railroad [N] | | | | | | |
| Appraisal ratings - underclearances | N/A [N] | | | | | | | | | |

Repair and Replacement Plans

| | | | | |
|---|-----------------------------------|---------------------------------|---|---|
| Type of work to be performed | Work done by | Work to be done by contract [1] | | |
| Other structural work, including hydraulic replacements. [38] | Bridge improvement cost | 0 | Roadway improvement cost | 0 |
| | Length of structure improvement | 60 m = 196.9 ft | Total project cost | 0 |
| | Year of improvement cost estimate | 2003 | | |
| | Border bridge - state | | Border bridge - percent responsibility of other state | |
| | Border bridge - structure number | | | |

Inspection and Sufficiency

| | | | |
|---|---|---------------------------------------|--|
| Structure status | Open, no restriction [A] | Appraisal ratings - structural | Better than present minimum criteria [7] |
| Condition ratings - superstructure | Good [7] | Appraisal ratings - roadway alignment | Equal to present minimum criteria [6] |
| Condition ratings - substructure | Good [7] | Appraisal ratings - deck geometry | Basically intolerable requiring high priority of corrective action [3] |
| Condition ratings - deck | Not Applicable [N] | | |
| Scour | Bridge is scour critical; bridge foundations determined to be unstable. [3] | | |
| Channel and channel protection | Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4] | | |
| Appraisal ratings - water adequacy | Equal to present desirable criteria [8] | Status evaluation | |
| Pier or abutment protection | | Sufficiency rating | 73.9 |
| Culverts | Not applicable. Used if structure is not a culvert. [N] | | |
| Traffic safety features - railings | Inspected feature meets currently acceptable standards. [1] | | |
| Traffic safety features - transitions | Inspected feature meets currently acceptable standards. [1] | | |
| Traffic safety features - approach guardrail | Inspected feature meets currently acceptable standards. [1] | | |
| Traffic safety features - approach guardrail ends | | | |
| Inspection date | January 2010 [0110] | Designated inspection frequency | 12 Months |
| Underwater inspection | Not needed [N] | Underwater inspection date | |
| Fracture critical inspection | Not needed [N] | Fracture critical inspection date | |
| Other special inspection | Not needed [N] | Other special inspection date | |