

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

| | | | | | |
|--|--|---|--|--|-------------------------------|
| Michigan [26] | Chippewa County [033] | Chippewa [15560] | 0.5 MI E STRONGS CORNER | 46-20-46 = 46.346111 | 084-57-31 = - 84.958611 |
| 17117062000B010 | Highway agency district 1 | Owner State Highway Agency [01] | Maintenance responsibility | State Highway Agency [01] | |
| Route 28 | | M-28 | Toll On free road [3] | Features intersected E BR TAHQUEMENON RIVER | |
| Design - main | Steel [3] | Design - approach | | Kilometerpoint 2291.4 km = 1420.7 mi | |
| 1 | Stringer/Multi-beam or girder [02] | 0 | Other [00] | Year built 1926 | Year reconstructed N/A [0000] |
| | | | | Skew angle 0 | Structure Flared |
| | | | | Historical significance Bridge is on the NRHP. [1] | |
| Total length 16.7 m = 54.8 ft | Length of maximum span 16.7 m = 54.8 ft | Deck width, out-to-out 10.6 m = 34.8 ft | Bridge roadway width, curb-to-curb 9.1 m = 29.9 ft | | |
| Inventory Route, Total Horizontal Clearance 10 m = 32.8 ft | Curb or sidewalk width - left 0.4 m = 1.3 ft | Curb or sidewalk width - right 0.4 m = 1.3 ft | | | |
| Deck structure type | Concrete Cast-in-Place [1] | | | | |
| Type of wearing surface | Bituminous [6] | | | | |
| Deck protection | | | | | |
| Type of membrane/wearing surface | | | | | |

Weight Limits

| | | | |
|---------------------------------------|--------------------------------------|---------------------|--|
| Bypass, detour length 4.8 km = 3.0 mi | Method to determine inventory rating | Load Factor(LF) [1] | Inventory rating 30.4 metric ton = 33.4 tons |
| | Method to determine operating rating | Load Factor(LF) [1] | Operating rating 50.6 metric ton = 55.7 tons |
| Bridge posting | Equal to or above legal loads [5] | Design Load | M 13.5 / H 15 [2] |

Functional Details

| | | | | | | | | | | |
|---|---|----------------------------|---|---------------------------------------|------|--|------------------------------|------|------|------|
| Average Daily Traffic | 1753 | Average daily truck traffi | 15 | % | Year | 2007 | Future average daily traffic | 2802 | Year | 2018 |
| Road classification | Principal Arterial - Other (Rural) [02] | | Lanes on structure | 2 | | Approach roadway width | 12.2 m = 40.0 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 | 99.99 m = 328.1 ft | | | |
| Minimum lateral underclearance reference feature | Feature not a highway or railroad [N] | | | | | | | | | |
| Minimum lateral underclearance on right | 99.9 = Unlimited | | | | | 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] | | |
| Bridge deck replacement with only incidental widening. [37] | Bridge improvement cost | 48000 | Roadway improvement cost | |
| | Length of structure improvement | | Total project cost | |
| | Year of improvement cost estimate | | | |
| | 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 | Equal to present minimum criteria [6] |
| Condition ratings - superstructure | Satisfactory [6] | Appraisal ratings - roadway alignment | Equal to present desirable criteria [8] |
| Condition ratings - substructure | Good [7] | Appraisal ratings - deck geometry | Somewhat better than minimum adequacy to tolerate being left in place as is [5] |
| Condition ratings - deck | Satisfactory [6] | | |
| Scour | Bridge foundations determined to be stable for the assessed or calculated scour condition. [8] | | |
| Channel and channel protection | Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7] | | |
| Appraisal ratings - water adequacy | Equal to present minimum criteria [6] | Status evaluation | |
| Pier or abutment protection | | Sufficiency rating | 84.8 |
| 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 | Inspected feature meets currently acceptable standards. [1] | | |
| Inspection date | June 2008 [0608] | Designated inspection frequency | 24 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 | |