

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]	Kent County [081]	Grand Rapids [34000]	GRAND RAPIDS	42-55-27 = 42.924167	085-40-52 = - 85.681111
415278400153B01	Highway agency district 3	Owner City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route 0	KIRTLAND STREET	Toll On free road [3]	Features intersected	PLASTER CREEK	
Design - main Concrete [1]	Design - approach Other [00]	Kilometerpoint 0 km = 0.0 mi	Year built 1923	Year reconstructed N/A [0000]	
2	Tee beam [04]	0	Skew angle 9	Structure Flared	
		Historical significance	Bridge is not eligible for the NRHP. [5]		
Total length 12.8 m = 42.0 ft	Length of maximum span 6.4 m = 21.0 ft	Deck width, out-to-out 9.2 m = 30.2 ft	Bridge roadway width, curb-to-curb 7.9 m = 25.9 ft		
Inventory Route, Total Horizontal Clearance 7.9 m = 25.9 ft	Curb or sidewalk width - left 1.9 m = 6.2 ft	Curb or sidewalk width - right 1.9 m = 6.2 ft			
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]				
Deck protection					
Type of membrane/wearing surface					

**Weight Limits**

Bypass, detour length 0.2 km = 0.1 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	0 metric ton = 0.0 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	0 metric ton = 0.0 tons
Bridge posting			Design Load	MS 18+Mod / HS 20+Mod [6]

### Functional Details

Average Daily Traffic  Average daily truck traffi  % Year  Future average daily traffic  Year

Road classification  Lanes on structure  Approach roadway width

Type of service on bridge  Direction of traffic  Bridge median

Parallel structure designation

Type of service under bridge  Lanes under structure  Navigation control

Navigation vertical clearanc  Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge  Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right  Minimum lateral underclearance on left

Minimum Vertical Underclearance  Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

### Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost  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

Bridge closed to all traffic [K]

Appraisal ratings -  
structural

Equal to present minimum criteria [6]

Condition ratings - superstructure

Serious [3]

Appraisal ratings -  
roadway alignment

Equal to present minimum criteria [6]

Condition ratings - substructure

Fair [5]

Appraisal ratings -  
deck geometry

Condition ratings - deck

Fair [5]

Scour

Bridge foundations determined to be stable for assessed or calculated scour condition. [5]

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

Meets minimum tolerable limits to be left in place as is [4]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

38

Culverts

Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings

Traffic safety features - transitions

Traffic safety features - approach guardrail

Traffic safety features - approach guardrail ends

Inspection date

August 2009 [0809]

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