

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

Pennsylvania [42] Allegheny County [003] Rankin [63408] MA0735 RANKIN BR-MAIN STR 40-24-19 = 40.405278 079-52-50 = - 79.880556
 2666 Highway agency district 11 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]
 Route 0 RANKIN BR Toll On free road [3] Features intersected SR837EX,3 RR'S,KENMARAVE
 Design - main Steel continuous [4] Design - approach Steel [3] Kilometerpoint 0 km = 0.0 mi
 9 Truss - Deck [09] 3 Stringer/Multi-beam or girder [02] Year built 1951 Year reconstructed 2011
 Skew angle 0 Structure Flared
 Historical significance Bridge is possibly eligible for the NRHP. [3]
 Total length 739.4 m = 2426.0 ft Length of maximum span 160 m = 525.0 ft Deck width, out-to-out 20.5 m = 67.3 ft Bridge roadway width, curb-to-curb 17.7 m = 58.1 ft
 Inventory Route, Total Horizontal Clearance 17.7 m = 58.1 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 2 m = 6.6 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 1.3 km = 0.8 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 43 metric ton = 47.3 tons
 Method to determine operating rating Load Factor(LF) [1] Operating rating 72 metric ton = 79.2 tons
 Bridge posting Equal to or above legal loads [5] Design Load MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	25860	Average daily truck traffi	10	%	Year	2011	Future average daily traffic	28570	Year	2024
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	4	Approach roadway width	17.7 m = 58.1 ft				
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Highway-waterway-railroad [Lanes under structure	10	Navigation control	Navigation control on waterway (bridge permit required). [1]				
Navigation vertical clearanc	130.1 m = 426.9 ft		Navigation horizontal clearance	1319.8 m = 4330.3 ft						
Minimum navigation vertical clearance, vertical lift bridge					Minimum vertical clearance over bridge roadway	10 m = 32.8 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	99.9 = Unlimited				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	4 m = 13.1 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

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	1000	Roadway improvement cost	3000						
	Length of structure improvement	739 m = 2424.7 ft		Total project cost	15000					
	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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Fair [5]	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	Very Good [8]		
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	Superior to present desirable criteria [9]	Status evaluation	
Pier or abutment protection	None present but re-evaluation suggested [5]	Sufficiency rating	69
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	July 2011 [0711]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2008 [0808]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2011 [0711]
Other special inspection	Not needed [N]	Other special inspection date	