HistoricBridges.org - National Bridge Inventory Data Sheet

2012 Inventory

The National Bridge Inventory contains data submitted by state transportion 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

New York [36]	Queens County [081]	New York [51000]	MARINE PKWY BR RCKWY INLT	40-34-20 = 40.572222	073-53-03 = -73.884167

5521240	Highway agency district	#Num!	Owner	Local Toll Authority [32]	Maintenance responsibility	Local Toll Authority [32]

Route	0	MARINE PKWY BRDG	Toll	Toll bridge [1]	Features intersected	ROCKAWAY INLET

Design - main	Steel [3]	Design - approach	Steel continuous [4]	Kilometerpoint	0 km = 0.0 mi
5	Truss - Thru [10]	20	Truss - Deck [09]	Year built	1936
				Year reconstructed	2001
				Skew angle	0
				Structure Flared	Yes, flared [1]
				Historical significance	Historical significance is not determinable at this time. [4]

Total length	1214.6 m = 3985.1 ft	Length of maximum span	164.5 m = 539.7 ft	Deck width, out-to-out	18.1 m = 59.4 ft	Bridge roadway width, curb-to-curb	14.6 m = 47.9 ft
Inventory Route, Total Horizontal Clearance	14.6 m = 47.9 ft	Curb or sidewalk width - left	1.8 m = 5.9 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	34.5 metric ton = 38.0 tons	
0.9 km = 0.6 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	49 metric ton = 53.9 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18+Mod / HS 20+Mod [6]	

Functional Details

Average Daily Traffic	20700	Average daily truck traffi	7 %	Year	2011	Future average daily traffic	28980
Year	2031						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	21.3 m = 69.9 ft		
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median (no barriers) [2]		
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	45.7 m = 149.9 ft	Navigation horizontal clearance	152.4 m = 500.0 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.26 m = 14.0 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

Bridge deck rehabilitation with only incidental widening. [36]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	236401000	Roadway improvement cost	138436000
Length of structure improvement	1214.6 m = 3985.1 ft	Total project cost	374837000
Year of improvement cost estimate	2011		
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 - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		

Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place but in a deteriorated condition [3]	Sufficiency rating	49.3

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	August 2011 [0811]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2011 [0811]
Other special inspection	Not needed [N]	Other special inspection date	