

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

New York [36] Bronx County [005] New York [51000] OVER HUTCHINSON RIVER 40-51-44 = 40.862222 073-48-56 = 73.815556

2240200 Highway agency district #Num! Owner City or Municipal Highway Agency [04] Maintenance responsibility City or Municipal Highway Agency [04]

Route 0 SHORE ROAD Toll On free road [3] Features intersected HUTCHINSON RIVER

Design - main Steel [3] Design - approach Concrete [1] Kilometerpoint 96.5 km = 59.8 mi

1 Movable - Bascule [16] 6 Arch - Deck [11] Year built 1906 Year reconstructed 1981

Skew angle 0 Structure Flared

Historical significance Bridge is not eligible for the NRHP. [5]

Total length 255.4 m = 838.0 ft Length of maximum span 38.1 m = 125.0 ft Deck width, out-to-out 15.8 m = 51.8 ft Bridge roadway width, curb-to-curb 12.1 m = 39.7 ft

Inventory Route, Total Horizontal Clearance 12.1 m = 39.7 ft Curb or sidewalk width - left 0.6 m = 2.0 ft Curb or sidewalk width - right 1.8 m = 5.9 ft

Deck structure type Not applicable [N]

Type of wearing surface Bituminous [6]

Deck protection Not applicable (applies only to structures with no deck) [N]

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.4 km = 0.2 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 13.4 metric ton = 14.7 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 44.8 metric ton = 49.3 tons

Bridge posting Equal to or above legal loads [5] Design Load

Functional Details

Average Daily Traffic	22500	Average daily truck traffi	5	%	Year	2011	Future average daily traffic	31500	Year	2031
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	4		Approach roadway width	12.1 m = 39.7 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	Waterway [5]		Lanes under structure	0		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	5.1 m = 16.7 ft		Navigation horizontal clearance	18.2 m = 59.7 ft						
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	31938000	Roadway improvement cost	18703000		
	Length of structure improvement	255.4 m = 838.0 ft		Total project cost	50641000	
	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	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place but in a deteriorated condition [3]	Sufficiency rating	7.1
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			
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			
Inspection date	June 2011 [0611]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2010 [1010]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	June 2011 [0611]
Other special inspection	Not needed [N]	Other special inspection date	