

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**

New York [36] Bronx County [005] New York [51000] HRD,HARLEM R,87I &METRO N 40-50-45 = 40.845833 073-55-33 = - 73.925833

2066919 Highway agency district #Num! Owner City or Municipal Highway Agency [04] Maintenance responsibility City or Municipal Highway Agency [04]

Route 0 181ST STREET Toll On free road [3] Features intersected RTE I87, HARLEM RIVER, M

Design - main Steel [3] Design - approach Masonry [8] Kilometerpoint 0 km = 0.0 mi  
 2 Arch - Deck [11] 7 Arch - Deck [11] Year built 1888 Year reconstructed 1992  
 Skew angle 0 Structure Flared  
 Historical significance Bridge is on the NRHP. [1]

Total length 513.5 m = 1684.8 ft Length of maximum span 167.6 m = 549.9 ft Deck width, out-to-out 24.5 m = 80.4 ft Bridge roadway width, curb-to-curb 20.7 m = 67.9 ft

Inventory Route, Total Horizontal Clearance 10 m = 32.8 ft Curb or sidewalk width - left 1.4 m = 4.6 ft Curb or sidewalk width - right 1.4 m = 4.6 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 km = 0.0 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 37.2 metric ton = 40.9 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 51.7 metric ton = 56.9 tons

Bridge posting Equal to or above legal loads [5] Design Load MS 18+Mod / HS 20+Mod [6]

### Functional Details

Average Daily Traffic	49390	Average daily truck traffi	13	%	Year	2008	Future average daily traffic	69146	Year	2028
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	6		Approach roadway width	20.1 m = 65.9 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	Highway-waterway-railroad [		Lanes under structure	6		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	29.5 m = 96.8 ft			Navigation horizontal clearance	86.5 m = 283.8 ft					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	5.18 m = 17.0 ft					
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	3 m = 9.8 ft				Minimum lateral underclearance on left	3 m = 9.8 ft				
Minimum Vertical Underclearance	99.99 m = 328.1 ft			Minimum vertical underclearance reference feature	Highway beneath structure [H]					
Appraisal ratings - underclearances	Meets minimum tolerable limits to be left in place as is [4]									

### Repair and Replacement Plans

Type of work to be performed	Work done by		Work to be done by contract [1]			
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost	12984000	Roadway improvement cost	7620000		
	Length of structure improvement	513.5 m = 1684.8 ft		Total project cost	20604000	
	Year of improvement cost estimate	2009				
	Border bridge - state			Border bridge - percent responsibility of other state		
	Border bridge - structure number					

## Inspection and Sufficiency

Structure status	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Equal to present minimum criteria [6]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present minimum criteria [6]"/>
Condition ratings - substructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - deck	<input type="text" value="Satisfactory [6]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour condition. [5]"/>		
Channel and channel protection	<input type="text" value="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	<input type="text" value="Equal to present minimum criteria [6]"/>	Status evaluation	<input type="text" value="Functionally obsolete [2]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="79"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="October 2008 [1008]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>