HistoricBridges.org - National Bridge Inventory Data Sheet

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 40-47-33 = 073-55-26 = -								
New York [36]	v York [36] Queens County [081]			New York [51000] [1278 OVER HELLGATE		40-47-33 =	73.923889	
5521889 Highway agency district #Num!			m! Owner Local To	Owner Local Toll Authority [32] Maintenance responsibility		Local Toll Authority	[32]	
Route 278	e 278 Toll Toll bridge [1] Features intersected CITY STS & BRX.KL, EAST							
Design - main Steel [3] Design - approach Suspension [13] Design - approach Year built 1936 Skew angle 0 Structure Flared Yes, flared [1]							uis timo [/]	
Historical significance is not determinable at this time. [4] Total length 3995.9 m = 13110.5 ft Length of maximum span 420.6 m = 1380.0 ft Deck width, out-to-out 29.9 m = 98.1 ft Bridge roadway width, curb-to-curb 27.6 m = 90.6 ft Inventory Route, Total Horizontal Clearance 27.6 m = 90.6 ft Curb or sidewalk width - left 1.7 m = 5.6 ft Curb or sidewalk width - right 1.7 m = 5.6 ft								
Deck structure type Other [9] Type of wearing surface Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]								
Deck protection Unknown [8]		·	•					
Type of membrane/wearing surface								
Weight Limits								
Bypass, detour length 1.6 km = 1.0 mi	1.6 km = 1.0 mi Method to determine operating rating		ating Allowable St	Allowable Stress(AS) [2] Allowable Stress(AS) [2]		24.5 metric ton = 36.3 metric ton =		
Bridge posting Equal to or above legal loads [5]			Design Load MS	18 / HS 20 [5]				

Functional Details									
Average Daily Traffic 154800 Average daily tr	ruck traffi 12 % Year 2011 Future average daily traffic 216720 Year 2031								
Road classification Principal Arterial - Interstate (Urban) [11] Lanes on structure 8 Approach roadway width 32.9 m = 107.9 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 [6]	Lanes under structure 39 Navigation control Navigation control on waterway (bridge permit required). [1]								
Navigation vertical clearance 42.9 m = 140.8 ft Navigation horizontal clearance 243.8 m = 799.9 ft									
Minimum navigation vertical clearance, vertical lift bri	dge Minimum vertical clearance over bridge roadway 4.41 m = 14.5 ft								
Minimum lateral underclearance reference feature H	ighway beneath structure [H]								
Minimum lateral underclearance on right 2.4 m = 7.9	ft Minimum lateral underclearance on left 0 = N/A								
Minimum Vertical Underclearance 3.35 m = 11.0 ft	Minimum vertical underclearance reference feature Highway beneath structure [H]								
Appraisal ratings - underclearances Basically intolerable requiring high priority of corrrective action [3]									
Danais and Danlessans Dlane									
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 492383000 Roadway improvement cost 288339000								
on replacements [e i]	Length of structure improvement 3995.9 m = 13110.5 ft Total project cost 780722000								
	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 res	striction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]					
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Better than present mir	nimum criteria [7]				
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings -	Basically intolerable red	quiring high priority of replacement [2]				
Condition ratings - deck	Satisfactory [6]	deck geometry						
Scour	Bridge foundation	s determined to be stable for assesse	ed or calculated scour con	dition. [5]				
Channel and channel protection		to slump. River control devices and movement evident. Debris is restrict		ave widespread minor damage. There is [5]				
Appraisal ratings - water adequac	Somewhat better in place as is [5]	than minimum adequacy to tolerate I	uation Functionally obsolete [2]					
Pier or abutment protection None presen		re-evaluation suggested [5]	Sufficiency r	rating 40.8				
Culverts Not applicable. Used if structure is not a culvert. [N]								
Traffic safety features - railings								
Traffic safety features - transitions		Not applicable or a safety feature is no						
Traffic safety features - approach	n guardrail							
Traffic safety features - approach guardrail ends								
Inspection date October 2010 [1010] Designated inspection frequency 24 Months								
Underwater inspection Not needed [N] Underwater inspection date								
Fracture critical inspection	Every two years [Y24]	Fracture critical in:	Fracture critical inspection date October 2010 [1010]					
Other special inspection	Not needed [N]	Other special insp	ection date					

HistoricBridges.org - National Bridge Inventory Data Sheet

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 40-48-02 = 073-55-42 = -								
New York [36]	New York County [061]	New York [51000] ON RANDALLS ISLAND			40.40-556	73.928333	
5521209 Highway agency district #Num!			Owner Local Toll Author	Owner Local Toll Authority [32] Maintenance responsibility			Local Toll Authorit	y [32]
Route 0 TRIBORO-NY TO RI Toll bridge [1]				ridge [1]	Features interse	cted CITY STS &	FDR DR, FRM E	
Design - Movable - I	ift [15]	Design - approach 119 Mixe	ed types [20]	Skew angle	936 Year re 0 Structure I	econstructed 1967 Flared Yes, fla	ared [1]	his time [4]
Historical significance Historical significance is not determinable at this time. [4] Total length 1400.3 m = 4594.4 ft Length of maximum span 96 m = 315.0 ft Deck width, out-to-out 22.6 m = 74.2 ft Bridge roadway width, curb-to-curb 21.2 m = 69.6 ft Inventory Route, Total Horizontal Clearance 20.6 m = 67.6 ft Curb or sidewalk width - left 2.3 m = 7.5 ft Curb or sidewalk width - right 2.3 m = 7.5 ft								
Type of wearing surfa	ce	Not applicable [N] Bituminous [6]	ice only to structures with no	dock) [N]				
Deck protection Not applicable (applies only to structures with no deck) [N] Type of membrane/wearing surface								
Weight Limits								
Bypass, detour lengtl 1.6 km = 1.0 mi	inclined to determine inventory rating			,	Inventory rating Operating rating	22.7 metric ton = 44.5 metric ton =		
	Bridge posting	Equal to or above	legal loads [5]		Design Load			

Functional Details									
Average Daily Traffic 85000 Average daily tr	ıck traffi 6 % Year 2011 Future average daily traffic 119000 Year 2031								
Road classification Principal Arterial - Other Freeways or Exp Lanes on structure 6 Approach roadway width 20.7 m = 67.9 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 [6]	Lanes under structure 19 Navigation control Navigation control on waterway (bridge permit required). [1]								
Navigation vertical clearanc 41.1 m = 134.8 ft	Navigation horizontal clearance 62.1 m = 203.8 ft								
Minimum navigation vertical clearance, vertical lift brid	ge 16.8 m = 55.1 ft Minimum vertical clearance over bridge roadway 4.41 m = 14.5 ft								
Minimum lateral underclearance reference feature H	ghway beneath structure [H]								
Minimum lateral underclearance on right 0 = N/A	Minimum lateral underclearance on left 0 = N/A								
Minimum Vertical Underclearance 4.21 m = 13.8 ft	Minimum vertical underclearance reference feature Highway beneath structure [H]								
Appraisal ratings - underclearances Basically intoler	able requiring high priority of corrrective action [3]								
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 180948000 Roadway improvement cost 105963000								
widerinig. [57]	Length of structure improvement 1400.3 m = 4594.4 ft Total project cost 286911000								
	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 res	triction [A]	Appraisal ratings - structural	Meets minimum tolera					
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]					
Condition ratings - substructure	Poor [4]	Appraisal ratings -	Basically intolerable r					
Condition ratings - deck	Poor [4]	deck geometry						
Scour	Bridge foundations determine	ed to be stable for assesse	ed or calculated scour co	ndition. [5]				
Channel and channel protection	Bank is beginning to slump. minor stream bed movement			have widespread minor damage. There is [6]				
Appraisal ratings - water adequac	Meets minimum tolerable lim	n tolerable limits to be left in place as is [4]		Structurally deficient [1]				
Pier or abutment protection	None present but re-evaluati	on suggested [5]	Sufficiency	y rating 22.2				
Culverts Not applicable. Used if structure is not a culvert. [N]								
Traffic safety features - railings								
Traffic safety features - transition	Not applicate	Not applicable or a safety feature is not required. [N]						
Traffic safety features - approach guardrail								
Traffic safety features - approach guardrail ends								
Inspection date November 2010 [1110] Designated inspection frequency 12 Months								
Underwater inspection Not needed [N] Underwater inspection date								
•	Every year [Y12]	Fracture critical ins		mber 2010 [1110]				
Other special inspection	Not needed [N]	Other special insp	ection date					