

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]	Richmond County [085]
New York [51000]	I278 OVER AUTHUR KILL
40-38-09 = 40.635833	074-11-50 = - 74.197222
5523059	Highway agency district #Num!
Owner Local Toll Authority [32]	Maintenance responsibility Local Toll Authority [32]
Route 278	RTE I278
Toll Toll bridge [1]	Features intersected ARTHUR KILL
Design - main Steel continuous [4]	Design - approach
Kilometerpoint 30.6 km = 19.0 mi	Year built 1928
Year reconstructed N/A [0000]	Skew angle 0
Structure Flared	Historical significance Historical significance is not determinable at this time. [4]
5	Truss - Thru [10]
0	Other [00]
Total length 351.1 m = 1152.0 ft	Length of maximum span 102.4 m = 336.0 ft
Deck width, out-to-out 13.5 m = 44.3 ft	Bridge roadway width, curb-to-curb 12.1 m = 39.7 ft
Inventory Route, Total Horizontal Clearance 6 m = 19.7 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 Concrete Cast-in-Place [1]
Type of wearing surface Bituminous [6]	Deck protection
Type of membrane/wearing surface	

Weight Limits	
Bypass, detour length 6.4 km = 4.0 mi	Method to determine inventory rating No rating analysis performed [5]
Inventory rating 24.4 metric ton = 26.8 tons	Method to determine operating rating No rating analysis performed [5]
Operating rating 85.7 metric ton = 94.3 tons	Bridge posting Equal to or above legal loads [5]
Design Load	

Functional Details

Average Daily Traffic	78300	Average daily truck traffi	12	%	Year	2010	Future average daily traffic	109620	Year	2030
Road classification	Principal Arterial - Interstate (Urban) [11]			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	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	41.1 m = 134.8 ft			Navigation horizontal clearance	106.6 m = 349.8 ft					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	6.01 m = 19.7 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]		
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost	44391000	Roadway improvement cost	25995000		
	Length of structure improvement	351.1 m = 1152.0 ft		Total project cost	70386000	
	Year of improvement cost estimate	2011				
	Border bridge - state	Unknown [342]		Border bridge - percent responsibility of other state		
	Border bridge - structure number	0				

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
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 and functioning [2]	Sufficiency rating	51.5
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	Not applicable or a safety feature is not required. [N]		
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	August 2010 [0810]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	September 1994 [0994]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2010 [0810]
Other special inspection	Not needed [N]	Other special inspection date	

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Basic Information

New York [36] Richmond County [085] New York [51000] I278 NY/NJ BORDER 40-37-58 = 40.632778 074-11-29 = - 74.191389

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

Route 278 RTE I278 Toll Toll bridge [1] Features intersected WESTERN AVENUE, OLD PLAC

Design - main Steel [3] Design - approach Other [00] Kilometerpoint 59.5 km = 36.9 mi

43 Girder and floorbeam system [03] 0 Other [00] Year built 1928 Year reconstructed N/A [0000]

Skew angle 0 Structure Flared

Historical significance Historical significance is not determinable at this time. [4]

Total length 991.2 m = 3252.1 ft Length of maximum span 34.1 m = 111.9 ft Deck width, out-to-out 16.1 m = 52.8 ft Bridge roadway width, curb-to-curb 12.1 m = 39.7 ft

Inventory Route, Total Horizontal Clearance 6 m = 19.7 ft Curb or sidewalk width - left 1 m = 3.3 ft Curb or sidewalk width - right 1 m = 3.3 ft

Deck structure type Concrete Cast-in-Place [1]

Type of wearing surface Bituminous [6]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 6.4 km = 4.0 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 21.2 metric ton = 23.3 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 45 metric ton = 49.5 tons

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

Functional Details

Average Daily Traffic	78300	Average daily truck traffi	12	%	Year	2010	Future average daily traffic	109620	Year	2030
Road classification	Principal Arterial - Interstate (Urban) [11]		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	Closed median (no barriers) [2]			
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Highway-waterway [6]		Lanes under structure	2	Navigation control					
Navigation vertical clearanc	0 = N/A			Navigation horizontal clearance	0 = N/A					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	4.87 m = 16.0 ft					
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.4 m = 1.3 ft				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	4.47 m = 14.7 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]		
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost	25801000	Roadway improvement cost	15109000		
	Length of structure improvement	991.2 m = 3252.1 ft		Total project cost	40910000	
	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	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
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="48.8"/>
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" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="August 2010 [0810]"/>	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="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="August 2010 [0810]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>