

Bridge Site Visit Report

ARUP

Penhorn Creek, 3.21

Date	July 14, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Penhorn Creek
Structure MP#	3.21
Length (ft)	42
Number of Spans	1
Number of Girders	
Number of Piers	0

General Field Notes	<p>Unfortunately, the photos taken on site were not saved. However, it must be said very little was sufficiently visible. A northern structure timber structure for vehicles seems a relatively recent addition (say 10 years), concrete pier, timber deck with maybe steel beam, no rail. The adjacent but separate structure supporting the tracks was not possible to determine. Tracks showed settlements, the ballast seemed deeper than usual because was sloping down about 1' at the sides. South of the span a (?) Pump station allowed just about to see there was indeed a span under, but it seemed to be a wooden plank at the side of the main structure. In short it could not be determined whether the main structural component was steel or concrete, but it was remarkably low, in a moment of low tide there were less than 2' of clearance; even if the current and water flow may be insignificant, it appears that the main span is partially submerged in normal tide conditions.</p>
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Superstructure

Deck Type	Ballast
Deck Condition	
Deck Remarks	
Primary Member Type	Timber
Primary Member Condition	
Primary Member Remarks	
Secondary Member Type	Timber
Secondary Member Condition	
Secondary Member Remarks	

Drainage System Remarks**Substructure - Abutments****Bearings/Bearing Seat Condition****Bearings/Bearing Seat Remarks****Stem Wall/Wingwall Type****Stem Wall/Wingwalls Condition****Stem Wall/Wingwall Remarks****Foundation Type** Timber**Foundation Condition****Foundation Remarks****Scour/Erosion Remarks**

Bridge Site Visit Report

ARUP

Hackensack River, 4.17

Date	July 14, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Hackensack River
Structure MP#	4.17
Length (ft)	740
Number of Spans	8
Number of Girders	4
Number of Piers	7
General Field Notes	<p>The swinging portion of the bridge is not directly accessible. Steelwork seems in acceptable conditions when seen from the permanent spans. These, basically the same at either end, shows severe corrosion, especially the bearings, lower flange and about the lowest 1' of the webs are unsafe. At the time of surveying was low tide and the water was about 5' below the bearings. Dry grasses captured by the lower web show that water reaches this level. Concrete abutments are in fair conditions with no evident cracks. Concrete intermediate piers however show severe corrosion and large spalls (over 1Tonne) about to fall in the water. Timber deck is to be entirely replaced.</p>

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	
Primary Member Type	Steel
Primary Member Condition	Poor
Primary Member Remarks	Lowest 1' of the girders is severely corroded
Secondary Member Type	Steel
Secondary Member Condition	Poor
Secondary Member Remarks	Some of the lowest connections are entirely dissolved
Drainage System Remarks	None present

Substructure - Piers

Bearings/Bearing Seat Condition	Poor
Bearings/Bearing Seat Remarks	No direct access possible but evident corrosion
Columns/Cap Type	Concrete
Columns/Cap Condition	Poor
Columns/Cap Remarks	Large spalls (over 1T) about to fall in water. In other places concrete corroded 6-8" at water level.
Foundation Type	Unknown
Foundation Condition	Unknown
Foundation Remarks	Not visible
Scour/Erosion Remarks	Not visible

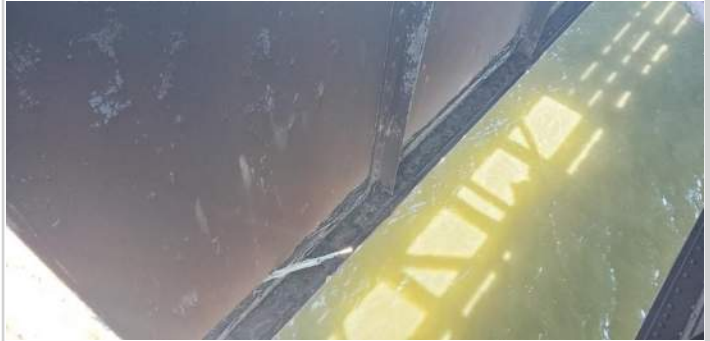
Substructure - Abutments

Bearings/Bearing Seat Condition	Severe
Bearings/Bearing Seat Remarks	Masonry plates in severe conditions. Bearings in places crumbling
Stem Wall/Wingwall Type	Concrete
Stem Wall/Wingwalls Condition	Good
Stem Wall/Wingwall Remarks	
Foundation Type	Unknown
Foundation Condition	Unknown
Foundation Remarks	Not visible
Scour/Erosion Remarks	

Photos



(1) General view, looking from west abutment towards the east



(2) Looking down through deck at corrosion at bottom of girders



(3) Corrosion at top flange of approach girders between deck timbers



(4) Deterioration at bearings at west abutment



(5) 100% section loss in web and significant deterioration of bottom flange in approach girder at west abutment



(6) Corrosion and section loss in bottom 1' of approach webs at southern girder west side



(7) Corrosion at section loss in bottom 1' of approach webs interior girder west side



(8) View of spalling and section loss in substructure at waterline in west approach. Note sea grass stuck in girders



(9) Full section loss of web and severe deterioration of bottom flange in approach girders at east abutment



(10) Substructure in east approach with significant spalling at waterline



(11) View of east abutment with concrete in generally good condition



(12) View of east abutment, with concrete in generally good condition

Bridge Site Visit Report

ARUP

Pipelines, 5.63

Date	July 14, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Pipelines
Structure MP#	5.63
Length (ft)	26
Number of Spans	1
Number of Girders	7
Number of Piers	0
General Field Notes	Very skewed, very low on water. At the time of inspection, a stream was flowing 6' under track level. Most of the track in the 300' west have up to 6' of substrate missing. Despite being straight on water, girders have only local spots of heavy corrosion. Stone abutments seem fine

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	50% of timber unusable. Must have been changed in a not far past given its over water
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	Local corrosion but generally fair
Secondary Member Type	Steel
Secondary Member Condition	Fair
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition Unknown

Bearings/Bearing Seat Remarks Not visible

Stem Wall/Wingwall Type

Stem Wall/Wingwalls Condition

Stem Wall/Wingwall Remarks

Foundation Type Concrete

Foundation Condition

Foundation Remarks

Scour/Erosion Remarks

Photos



(1) General view, looking east



(2) General view, looking east



(3) General view, looking south



(4) The ground approximately 300 feet west of the bridge is washed out



(5) The ground approximately 300 feet west of the bridge is washed out



(6) Corrosion on the bottom flanges of the girders

Bridge Site Visit Report

ARUP

Harrison IT, 6.41

Date	July 14, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Harrison IT
Structure MP#	6.41
Length (ft)	33
Number of Spans	1
Number of Girders	
Number of Piers	0
General Field Notes	Accessible from above only. Vegetation limits inspection. Concrete span and abutment seems in good condition. Unable to inspect underside

Superstructure

Deck Type	Ballast
Deck Condition	Good
Deck Remarks	
Primary Member Type	Concrete
Primary Member Condition	Good
Primary Member Remarks	
Secondary Member Type	N/A
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks**Stem Wall/Wingwall Type** Concrete**Stem Wall/Wingwalls Condition****Stem Wall/Wingwall Remarks****Foundation Type** Concrete**Foundation Condition****Foundation Remarks****Scour/Erosion Remarks****Photos**

(1) General view, looking east



(2) General view, looking east



(3) Looking at western abutment from top of bridge



(4) Looking at eastern abutment from top of bridge

Bridge Site Visit Report

ARUP

Passaic River, 7.57

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Passaic River
Structure MP#	7.57
Length (ft)	560
Number of Spans	7
Number of Girders	4
Number of Piers	6
General Field Notes	Access is partial and only at either end

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	Timber to be entirely replaced
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	Spans at either end seemed fair with no obvious major corrosion. Intermediate spans not visible, being over water and less accessible might have been maintained less well in the last years. Eastmost concrete abutment has minor cracks. Westmost stone abutment has significant cracks mainly to what appear to be an increase in size that happened at some point. Eastmost bearings show corrosion, especially at the masonry plates.
Secondary Member Type	Steel
Secondary Member Condition	Fair
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	
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Columns/Cap Type	Masonry
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Columns/Cap Condition	Good
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Columns/Cap Remarks	Stone piers, likely concrete infill
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Foundation Type	Masonry
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Foundation Condition	
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Foundation Remarks	
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Scour/Erosion Remarks	
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Substructure - Abutments

Bearings/Bearing Seat Condition	Poor
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Bearings/Bearing Seat Remarks	Masonry plate corroded
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Stem Wall/Wingwall Type	Concrete/Masonry
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Stem Wall/Wingwalls Condition	Fair
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Stem Wall/Wingwall Remarks	East abutment concrete, minor cracks. West abutment stone, visible cracks
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Foundation Type	Masonry
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Foundation Condition	
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Foundation Remarks	
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Scour/Erosion Remarks	
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Photos



(1) General view, looking west



(2) West masonry abutment exhibiting some cracking



(3) West masonry abutment exhibiting some cracking



(4) View of the underside of the superstructure



(5) Corrosion on the girders



(6) Corrosion of bearings at the eastern side of the bridge



(7) View of the underside of the superstructure



(8) Corrosion in girders and bearings



(9) East concrete abutment exhibiting some cracking



(10) Superstructure with some corrosion



(11) View of moveable span, looking north



(12) Evidence of past rehabilitation measures used on the bearings at one of the piers

Bridge Site Visit Report

ARUP

McCarter Highway, 7.74

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	McCarter Highway
Structure MP#	7.74
Length (ft)	66
Number of Spans	1
Number of Girders	4
Number of Piers	0
General Field Notes	Unable to access from above. Abutments good, steel structure has rust problems but not major corrosion problems.

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	
Primary Member Type	Steel
Primary Member Condition	
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	Unable to see
Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	Good
Stem Wall/Wingwall Remarks	Stone finish, most likely structural concrete walls
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



(1) General view, looking south



(2) Overview of eastern abutment



(3) Overview of western abutment



(4) View of underside of superstructure



(5) General view, looking north



(6) Minor corrosion on the girders

Bridge Site Visit Report

ARUP

Newark IT, 7.88

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Newark IT
Structure MP#	7.88
Length (ft)	85
Number of Spans	1
Number of Girders	4
Number of Piers	0
General Field Notes	Minimal access to bridge

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	
Primary Member Type	Steel
Primary Member Condition	Unknown
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	Fair
Secondary Member Remarks	Some local repair required due to corrosion
Drainage System Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks

Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	Unknown
Stem Wall/Wingwall Remarks	Large stone visible
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



(1) General view, looking east



(2) General view, looking east



(3) General view, looking north



(4) View of side of superstructure



(5) View of underside of the superstructure



(6) View of underside of the superstructure

Bridge Site Visit Report

ARUP

Broadway, 7.96

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Broadway
Structure MP#	7.96
Length (ft)	125
Number of Spans	2
Number of Girders	2
Number of Piers	2
General Field Notes	Despite very poor maintenance, steel superstructure seems to need only minor repairs for local corrosion. Trees growing behind the abutments may be the cause of some visible cracks

Superstructure

Deck Type	Steel
Deck Condition	Fair
Deck Remarks	Unusual transverse metal deck alternate to timber
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	Fair
Secondary Member Remarks	Timber spaced between transverse secondary steel beam. Most likely would attract moisture and corrosion but hard to see
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	
Columns/Cap Type	Masonry
Columns/Cap Condition	
Columns/Cap Remarks	
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
Bearings/Bearing Seat Remarks	
Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	Fair
Stem Wall/Wingwall Remarks	Visible stone, likely no concrete behind. Visible cracks
Foundation Type	N/A
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



(1) General view, looking north



(2) View of eastern abutment



(3) General view, looking west



(4) View of underside of metal deck



(5) Crack in western abutment



(6) Corrosion on one of the girders



(7) View of overgrowth on top of metal deck



(8) View of eastern abutment

Bridge Site Visit Report

ARUP

Park Drive, 8.85

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Park Drive
Structure MP#	8.85
Length (ft)	175
Number of Spans	3
Number of Girders	
Number of Piers	2
General Field Notes	Concrete arches, two easily accessible in general good working order. Local spalls at pier and at construction joints under arches

Superstructure

Deck Type	Ballast
Deck Condition	Unknown
Deck Remarks	Cannot see under ballast but given general condition expected good
Primary Member Type	Concrete
Primary Member Condition	Good
Primary Member Remarks	Only local spalls under arches, primarily at intermediate construction joint
Secondary Member Type	N/A
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	Locally drains in correspondence of mid joint

Substructure - Piers

Bearings/Bearing Seat Condition

Bearings/Bearing Seat Remarks	No bearings
Columns/Cap Type	Concrete
Columns/Cap Condition	Good
Columns/Cap Remarks	Only one pier present visible spalling
Foundation Type	N/A
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	No

Substructure - Abutments

Bearings/Bearing Seat Condition	Good
Bearings/Bearing Seat Remarks	
Stem Wall/Wingwall Type	
Stem Wall/Wingwalls Condition	
Stem Wall/Wingwall Remarks	
Foundation Type	N/A
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	No

Photos



(1) General view, looking south



(2) Graffiti on parapet



(3) Graffiti and some spalling on parapet



(4) View of eastern side of bridge



(5) General overview, looking east



(6) General overview, looking east



(7) Spalling at the base of one of the piers



(8) Spalling at the base of one of the piers



(9) Spalling at construction joint



(10) Spalling and discoloration looking west



(11) Spalling at the base of one of the piers



(12) Spalling and discoloration on the side of one of the piers

Bridge Site Visit Report

ARUP

Franklin Ave, 9.1

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Franklin Ave
Structure MP#	9.1
Length (ft)	86
Number of Spans	2
Number of Girders	
Number of Piers	1
General Field Notes	Concrete spans over concrete wingwalls and intermediate pier. Good conditions generally. Some repointing required under deck

Superstructure

Deck Type	Ballast
Deck Condition	Unknown
Deck Remarks	Concrete under ballast most likely in good condition but not visible
Primary Member Type	Concrete
Primary Member Condition	Good
Primary Member Remarks	Longitudinal cracks under deck, near edges
Secondary Member Type	N/A
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks**Columns/Cap Type** Concrete**Columns/Cap Condition****Columns/Cap Remarks****Foundation Type** N/A**Foundation Condition****Foundation Remarks****Scour/Erosion Remarks****Substructure - Abutments****Bearings/Bearing Seat Condition** Good**Bearings/Bearing Seat Remarks****Stem Wall/Wingwall Type** Concrete**Stem Wall/Wingwalls Condition** Good**Stem Wall/Wingwall Remarks****Foundation Type** N/A**Foundation Condition****Foundation Remarks****Scour/Erosion Remarks**

Photos



(1) General view, looking north



(2) Western side of the bridge



(3) Graffiti on parapet



(4) General view, looking east



(5) Spalling at the southern abutment and cracking in the superstructure



(6) Longitudinal cracking and spalling on underside of superstructure



(7) Longitudinal cracking and spalling on underside of superstructure



(8) Cracking on underside of deck and discoloration at the top of the pier



(9) General view, looking west



(10) General view, looking west



(11) Longitudinal cracking on underside of deck



(12) Longitudinal cracking on underside of deck

Bridge Site Visit Report

ARUP

Garden State Parkway, 10.29

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Garden State Parkway
Structure MP#	10.29
Length (ft)	120
Number of Spans	2
Number of Girders	2
Number of Piers	2
General Field Notes	Only inspected from above. Generally good condition with the remarkable exception if visible concrete cracking above the wingwalls

Superstructure

Deck Type	Ballast
Deck Condition	Unknown
Deck Remarks	Not inspectable: ballast cover
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	No signs of heavy corrosion other than superficial rust
Secondary Member Type	N/A
Secondary Member Condition	
Secondary Member Remarks	Unable to access
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	
Columns/Cap Type	N/A
Columns/Cap Condition	Unknown
Columns/Cap Remarks	
Foundation Type	N/A
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	None

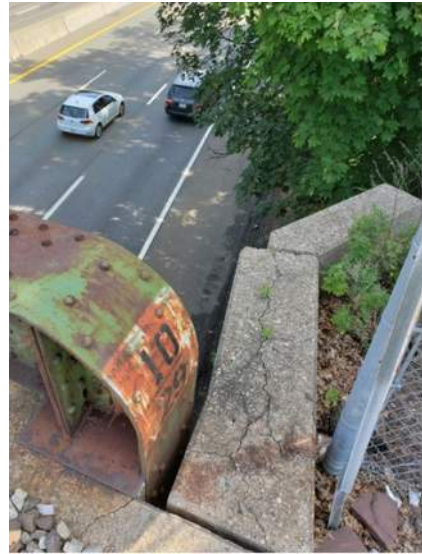
Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
Bearings/Bearing Seat Remarks	
Stem Wall/Wingwall Type	Concrete
Stem Wall/Wingwalls Condition	Poor
Stem Wall/Wingwall Remarks	Significant cracks over piers
Foundation Type	Concrete
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



(1) General view, looking west



(2) Cracking in the concrete above the wingwall



(3) Corrosion on the girder



(4) Cracking in the concrete above the abutment



(5) Corrosion on the girders



(6) Corrosion on the girders

Bridge Site Visit Report

ARUP

JFK Drive, 10.36

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	JFK Drive
Structure MP#	10.36
Length (ft)	110
Number of Spans	1
Number of Girders	2
Number of Piers	0
General Field Notes	Other than the timber deck, piers and main structure seem in fair condition. Superficial rust and graffiti but not significant corrosion or cracks

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	Lumber to be entirely replaced
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	Fair
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Fair
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Bearings/Bearing Seat Remarks	
Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	
Stem Wall/Wingwall Remarks	Stone clad, most likely structural concrete not visible. No obvious signs of cracks or settlements
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



(1) General view, looking west



(2) Overview of western abutment



(3) Overview of western abutment



(4) Crack running horizontally in masonry under bearing



(5) General view, looking north



(6) General view, looking east

Bridge Site Visit Report

ARUP

Spruce Street, 10.42

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Spruce Street
Structure MP#	10.42
Length (ft)	80
Number of Spans	3
Number of Girders	7
Number of Piers	2
General Field Notes	Other than poor timber deck, fair condition. Other than rust no obvious corrosion or cracks or settlements

Superstructure

Deck Type	Wood
Deck Condition	Poor
Deck Remarks	Timber to be entirely replaced
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	Not visible
Columns/Cap Type	Steel
Columns/Cap Condition	
Columns/Cap Remarks	
Foundation Type	
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
Bearings/Bearing Seat Remarks	
Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	Good
Stem Wall/Wingwall Remarks	Stone clad, most likely structural concrete
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	None

Photos



(1) General view, looking west



(2) General view, looking north



(3) View of western abutment and pier



(4) View of underside of superstructure and western abutment



(5) General view, looking south



(6) View of western abutment and pier

Bridge Site Visit Report

ARUP

Belleville Ave, 10.47

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Belleville Ave
Structure MP#	10.47
Length (ft)	100
Number of Spans	3
Number of Girders	7
Number of Piers	2
General Field Notes	Other than poor timber deck, fair condition. Other than rust no obvious corrosion or cracks or settlements. There are numerous dents on the steel work showing impacts of vehicles coming from south-east, in both the east column and bottom of deck.

Superstructure

Deck Type	Wood
Deck Condition	Severe
Deck Remarks	Timber to be entirely replaced
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	
Columns/Cap Type	Steel
Columns/Cap Condition	
Columns/Cap Remarks	
Foundation Type	
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	No

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
Bearings/Bearing Seat Remarks	It visible
Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	Good
Stem Wall/Wingwall Remarks	Stone cladding, most likely structural concrete. No obvious sign of crack
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



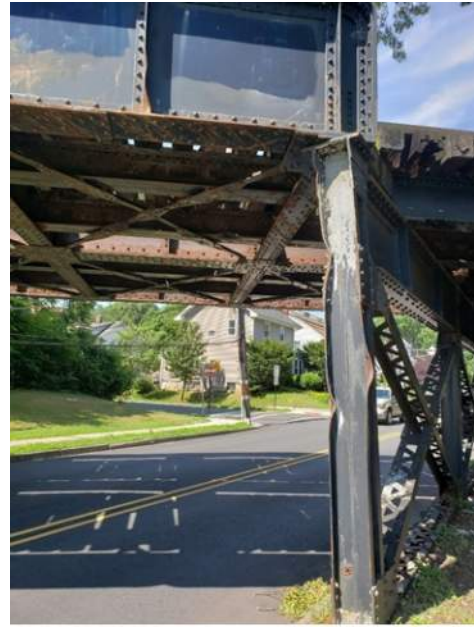
(1) Damage to the fascia girder due to vehicular impact



(2) General view, looking east



(3) General view, looking north



(4) Damage to the pier column due to vehicular impact



(5) General view, looking west



(6) Corrosion at a connection on the superstructure

Bridge Site Visit Report

ARUP

New Street, 10.58

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	New Street
Structure MP#	10.58
Length (ft)	115
Number of Spans	3
Number of Girders	4
Number of Piers	2
General Field Notes	Other than poor timber deck, fair condition. Other than rust no obvious corrosion or cracks or settlements

Superstructure

Deck Type	Wood
Deck Condition	Severe
Deck Remarks	
Primary Member Type	Steel
Primary Member Condition	Fair
Primary Member Remarks	
Secondary Member Type	Steel
Secondary Member Condition	
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Piers

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks	Not visible
Columns/Cap Type	Steel
Columns/Cap Condition	
Columns/Cap Remarks	
Foundation Type	
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	No

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
Bearings/Bearing Seat Remarks	
Stem Wall/Wingwall Type	Concrete/Masonry
Stem Wall/Wingwalls Condition	Good
Stem Wall/Wingwall Remarks	Could be stone only, not concrete?
Foundation Type	Masonry
Foundation Condition	
Foundation Remarks	
Scour/Erosion Remarks	

Photos



(1) General view, looking north



(2) General view, looking east



(3) Corrosion on superstructure



(4) Northern abutment and pier



(5) Southern abutment and pier



(6) Past rehabilitation to abutment

Bridge Site Visit Report

ARUP

Broad Street, 10.69

Date	July 13, 2020
Surveyor	Heros Gnesotto

Bridge Information

Crossing	Broad Street
Structure MP#	10.69
Length (ft)	60
Number of Spans	1
Number of Girders	4
Number of Piers	0
General Field Notes	Recent bridge in good working order

Superstructure

Deck Type	Ballast
Deck Condition	
Deck Remarks	Ballast on concrete deck
Primary Member Type	Steel
Primary Member Condition	Good
Primary Member Remarks	Most likely composite concrete deck with steel girders
Secondary Member Type	Concrete
Secondary Member Condition	Good
Secondary Member Remarks	
Drainage System Remarks	

Substructure - Abutments

Bearings/Bearing Seat Condition	Unknown
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Bearings/Bearing Seat Remarks**Stem Wall/Wingwall Type** Concrete**Stem Wall/Wingwalls Condition** Good**Stem Wall/Wingwall Remarks****Foundation Type** Concrete**Foundation Condition****Foundation Remarks****Scour/Erosion Remarks**

Photos



(1) General view, looking west



(2) General view, looking west



(3) General view, looking south



(4) Eastern abutment and underside of superstructure



(5) Western abutment

(6) General view, looking north