

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

Name: **Washington Bridge North** Agency ID: **070001** Inspec Date: **07/15/2016**
TranSystems

IDENTIFICATION

Rte.(On/Under) 5A: Route On Structure	State 1: 44 Rhode Island
Rte. Signing Prefix 5B: 1 Interstate Hwy	Facility Carried 7: I-195 WB
Level of Service 5C: 1 Mainline	Place Code 4: East Providence
Route Number 5D: 00195	SHD District 2: District 3
Directional Suffix 5E: 4 West	Feature Intersected 6: SEEKONK RIVER
Border Bridge Code 98: Not Applicable (P)	County Code 3: Providence
Border Bridge Number 99:	Location 9: 0.2 Mi W of JCT US 6
Mile Post 11: 2.423 mi	Latitude 16: 41° 49' 09"
Struc Num 8: 000000000007000	Longitude 17: 071° 23' 12"
% Responsibility: Unknown	

INSPECTION

Inspection Date 90: 7/28/2015	Frequency 91: 24 months	Next Inspection: 7/28/2017
FC Inspection Date 93A: NA	FC Frequency 92A:	Next FC Inspection: NA
UW Inspection Date 93B: 8/7/2013	UW Frequency 92B: 60 months	Next UW Inspection: 8/7/2018
SI Date 93C: 7/15/2016	SI Frequency 92C: 12 months	Next SI: 7/28/2017
Element Insp. Date: 7/15/2016	Element Frequency: 24 months	Next Elem. Insp.: 7/28/2017

CONDITION

Deck 58: 6 Satisfactory	Super 59: 4 Poor	Sub 60: 4 Poor	SD/FO: SD
Culvert 62: N/A (NBI)	Channel/Channel Protection 61: 7 Minor Damage	SUFF RATE: 39.1	

LOAD RATING AND POSTING

Inventory Rating Method 65: 8 LRFRusing HL-93 loadin	Operating Rating Method 63: 8 LRFRusing HL-93 loadin
Inventory Rating 66: 26.4 TONS	Operating Rating 64: 34.1 TONS
Design Load 31: 6 MS18(HS20)+mod	Posting 70: 3 10.0-19.9%below
Posting Status 41: P Posted for load	

GEOMETRIC DATA

Length Max Span 48: 130.60 ft	Structure Length 49: 1,903.87 ft
Width Curb to Curb 51: 71.85 ft	Curb/Sdwk Width L 50A: 0.00 ft
Approach Roadway width 32: 61.00 ft	Curb/Sidewalk Width R 50B: 0.00 ft
(w/ shoulders)	Width Out to Out 52: 76.44 ft
Deck Area: 145,531.00 sq. ft	Median 33: 0 No median
Skew 34: 0.00°	Structure Flared 35: 1 Yes, flared
Vertical Clearance 10: 99.99 ft	Horizontal Clearance 47: 59.71 ft
Minimum Vertical Clearance Over Bridge 53: 18.33 ft	
Minimum Vertical Underclearance Reference 54A: H Hwy beneath struct	
Minimum Vertical Underclearance 54B: 14.17 ft	
Minimum Lateral Underclearance Reference R 55A: H Hwy beneath struct	
Minimum Lateral Underclearance R 55: 6.00 ft	
Minimum Lateral Underclearance L 56: 0.00 ft	

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

AGE AND SERVICE

Year Built	27:	1969	ADT	29:	76,700
Type of Service on	42A:	1 Highway	Year Reconstructed	106:	1998
Type of Service under	42B:	8 Hwy-waterway-RR	Detour Length	19:	2.0 mi
Lanes on	28A:	5	Truck ADT	109:	10%
Lanes under	28B:	8	Year of ADT	30:	2008

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans	46:	20	Number of Spans Main Unit	45:	1
Wearing Surface	108A:	6 Bituminous	Main Span Material Design	43A:	3 Steel
Membrane	108B:	2 Prefomed Fabric	Main Span Material Design	43B:	02 Stringer/Girder
Deck protection	108C:	8 Unknown	Deck Type	107:	1 Concrete-Cast-ir

APPRAISAL

Bridge Rail	36A:	1 Meets Standards	Approach Rail	36C:	0 Substandard
Transition	36B:	0 Substandard	Approach Rail Ends	36D:	0 Substandard
Str Evaluation	67:	4 Minimum Tolerable	Deck Geometry	68:	4 Tolerable
Waterway Adequacy	71:	7 Above Minimum	Approach Alignment	72:	6 Equal Min Criteria
Scour Critical	113:	3 SC - Unstable			
Underclearance, Vertical and Horizontal	69:	4 Tolerable			

CLASSIFICATION

Defense Highway	100:	1 On Interstate STRAHNE	Parallel Structure	101:	Left of bridge
Direction of Traffic	102:	1 1-way traffic	Temporary Structure	103:	Not Applicable (P)
Highway System	104:	3 On free road	NBIS Length	112:	Long Enough
Defense Hwy	110:	1 On the NHS	Functional Class	26:	11 Urban Interstate
Toll Facility	20:	1 On Interstate STRAHNE	Historical Significance	37:	4 Hist sign not determin
Owner	22:	01 State Highway Agency	Custodian	21:	01 State Highway Agency

PROPOSED IMPROVEMENTS

Bridge Cost	94:	\$29,571,332	Type of Work	75:	35 Rehabilitate-gen.
Roadway Cost	95:	\$2,957,133	Length of Improvement	76:	1,903.9 ft
Total Cost	96:	\$44,356,998	Future ADT	114:	92,040
Year of Cost Estimate	97:	2007	Year of Future ADT	115:	2036

NAVIGATION DATA

Navigation Control	38:	Permit Required	Horizontal Clearance	40:	99.7 ft
Vertical Clearance	39:	42.0 ft	Lift Bridge Vertical Clearance	116:	
Pier Protection	111:	2 In-Place, Functioning			

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

ELEMENT CONDITION STATE DATA

Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
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12	Re Concrete Deck
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
12	Re Concrete Deck	sq.ft	142,889.00	94%	134,317.00	5%	7,144.00	1%	1,428.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

510	Wearing Surfaces	sq.ft	142,889.00	94%	134,317.00	5%	7,144.00	1%	1,428.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
3210	el/Spall/Patch/Pot(Wear Sur)	each	4,286.00	0%	0.00	83%	3,572.00	17%	714.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
3220	Crack (Wearing Surface)	each	4,286.00	0%	0.00	83%	3,572.00	17%	714.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
1080	lamination/Spall/Patched Ar	each	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
1090	Exposed Rebar	each	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
1120	Efflorescence/Rust Staining	each	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
1130	Cracking (RC and Other)	each	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
See "Element #12 - Reinforced Concrete Deck" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

			105	Re Clsd Box Girder							
Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
105	Re Clsd Box Girder	ft	922.00	7%	65.00	50%	461.00	43%	396.00	0%	0.00

The box girders were inspected as part of this 7/15/2016 Special Inspection.

Box girders typically exhibit spalls with exposed rebar, hollow areas, concrete patches, efflorescence, rust stains and leakage stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.

Note: defect quantities are largely based on interior box girder deficiencies due to size and severity of deficiencies. This assumption was made to avoid double-counting defects.

521	Conc Prot Coating	sq.ft	120.00	90%	108.00	0%	0.00	0%	0.00	10%	12.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.</p>											
3510	Year (Concrete Protect Coa	each	12.00	0%	0.00	0%	0.00	0%	0.00	100%	12.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.</p>											
1080	lamination/Spall/Patched Ar	each	72.00	0%	0.00	0%	0.00	100%	72.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.</p>											
1090	Exposed Rebar	each	46.00	0%	0.00	78%	36.00	22%	10.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.</p>											
1120	Efflorescence/Rust Staining	each	244.00	0%	0.00	50%	122.00	50%	122.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.</p>											
1130	Cracking (RC and Other)	each	495.00	0%	0.00	61%	303.00	39%	192.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for interior of box girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for interior of box girders and an itemization of exterior box girder deficiencies.</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

			107	Steel Opn Girder/Beam							
Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
107	Steel Opn Girder/Beam	ft	1,430.00	55%	782.00	35%	500.00	10%	148.00	0%	0.00

The steel girders were inspected as part of this 7/15/2016 Special Inspection.

Steel girders typically exhibit peeling paint with light to heavy corrosion at supports, pitting section losses up to 1/4" deep at supports and minor waviness of bottom flanges. There are bolted repair plates at supports.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for steel girders.

515	Steel Protective Coating	sq.ft	21,000.00	35%	7,350.00	30%	6,300.00	30%	6,350.00	5%	1,000.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for steel girders.</p>											
3410	Chalk(Steel Protect Coatings	each	6,300.00	0%	0.00	100%	6,300.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for steel girders.</p>											
3420	el/Bub/Crack(Stl Protect Co	each	7,350.00	0%	0.00	0%	0.00	86%	6,350.00	14%	1,000.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined." for a summary of deficiencies for steel girders.</p>											
1000	Corrosion	each	500.00	0%	0.00	71%	353.00	29%	147.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for steel girders.</p>											
1020	Connection	each	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for steel girders.</p>											
1900	Distortion	each	143.00	0%	0.00	100%	143.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for steel girders.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for steel girders.</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

		109		Pre Opn Conc Girder/Beam							
Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
109	Pre Opn Conc Girder/Beam	ft	14,543.00	81%	11,724.00	4%	629.00	12%	1,673.00	4%	517.00

The prestressed concrete girders/corbels were inspected as part of this 7/15/2016 Special Inspection.

Prestressed girders/corbels typically exhibit spalls with exposed rebar, section loss on exposed rebars, hollow areas, concrete patches, efflorescence, rust stains and leakage stains. There are scattered cracks (some structural shear cracks).

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels and an itemization of deficiencies.

521	Conc Prot Coating	sq.ft	5,000.00	85%	4,250.00	0%	0.00	8%	375.00	8%	375.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											
3510	Vear (Concrete Protect Coa	each	750.00	0%	0.00	0%	0.00	50%	375.00	50%	375.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											
1080	lamination/Spall/Patched Ar	each	728.00	0%	0.00	36%	264.00	36%	264.00	27%	200.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											
1090	Exposed Rebar	each	584.00	0%	0.00	0%	0.00	50%	292.00	50%	292.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											
1100	Exposed Prestressing	each	50.00	0%	0.00	0%	0.00	50%	25.00	50%	25.00
<p>See pdf. file "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											
1110	Cracking (PSC)	each	727.00	0%	0.00	0%	0.00	100%	727.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											
1120	Efflorescence/Rust Staining	each	730.00	0%	0.00	50%	365.00	50%	365.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for prestressed girders/corbels.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for prestressed girders/corbels.</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

144	Re Conc Arch
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
144	Re Conc Arch	ft	2,880.00	21%	614.00	45%	1,298.00	30%	863.00	4%	105.00

The concrete arches were inspected as part of this 7/15/2016 Special Inspection.

Concrete arches typically exhibit transverse and longitudinal hairline cracks (some structural cracks), spalls with exposed rebar, section loss on exposed rebars, hollow areas, concrete patches, efflorescence, rust stains and leakage stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete arches.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete arches.

1080	lamination/Spall/Patched Ar	each	790.00	0%	0.00	56%	440.00	32%	250.00	13%	100.00
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See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for reinforced concrete arches.
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for reinforced concrete arches.

1090	Exposed Rebar	each	450.00	0%	0.00	60%	270.00	39%	175.00	1%	5.00
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See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for reinforced concrete arches.
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for reinforced concrete arches.

1120	Efflorescence/Rust Staining	each	450.00	0%	0.00	67%	300.00	33%	150.00	0%	0.00
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See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for reinforced concrete arches.
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for reinforced concrete arches.

1130	Cracking (RC and Other)	each	576.00	0%	0.00	50%	288.00	50%	288.00	0%	0.00
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See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for reinforced concrete arches.
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for reinforced concrete arches.

205	Re Conc Column
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
205	Re Conc Column	each	92.00	36%	33.00	22%	20.00	42%	39.00	0%	0.00

The concrete pier columns were inspected as part of this 7/15/2016 Special Inspection.

Concrete columns exhibit hairline cracks, random spalls with exposed rebar, isolated hollow areas and concrete patches, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete columns.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete columns.

1080	lamination/Spall/Patched Ar	each	42.00	0%	0.00	48%	20.00	52%	22.00	0%	0.00
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See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete columns.
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete columns.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

1090	Exposed Rebar	each	7.00	0%	0.00	0%	0.00	100%	7.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete columns.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete columns.</p>											
1120	Efflorescence/Rust Staining	each	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete columns.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete columns.</p>											
1130	Cracking (RC and Other)	each	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete columns.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete columns.</p>											
8368	Graffiti	sq.ft	300.00	0%	0.00	100%	300.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete columns.</p>											

210	Re Conc Pier Wall
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
210	Re Conc Pier Wall	ft	495.00	48%	236.00	25%	124.00	21%	105.00	6%	30.00

The concrete pier walls were inspected as part of this 7/15/2016 Special Inspection.

Concrete pier walls exhibit hairline cracks, random spalls with exposed rebar and isolated broken rebars, few large hollow areas and concrete patches, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier walls.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.

1080	lamination/Spall/Patched Ar	each	75.00	0%	0.00	43%	32.00	44%	33.00	13%	10.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.</p>											
1090	Exposed Rebar	each	50.00	0%	0.00	0%	0.00	60%	30.00	40%	20.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.</p>											
1120	Efflorescence/Rust Staining	each	34.00	0%	0.00	50%	17.00	50%	17.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

1130	Cracking (RC and Other)	each	50.00	0%	0.00	50%	25.00	50%	25.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.</p>											
6000	Scour	each	50.00	0%	0.00	100%	50.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.</p> <p>See 8/7/2013 Underwater Inspection Report.</p>											
8368	Graffiti	sq.ft	400.00	0%	0.00	100%	400.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier walls.</p>											

215	Re Conc Abutment
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
215	Re Conc Abutment	ft	230.00	34%	78.00	19%	44.00	47%	108.00	0%	0.00

The concrete abutments were inspected as part of this 7/15/2016 Special Inspection.

Concrete abutments exhibit scattered hairline cracks, isolated spalls up to 4" deep, random large hollow areas, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete abutments.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete abutments.

1080	lamination/Spall/Patched Ar	each	103.00	0%	0.00	28%	29.00	72%	74.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete abutments.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete abutments.</p>											
1120	Efflorescence/Rust Staining	each	30.00	0%	0.00	50%	15.00	50%	15.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete abutments.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete abutments.</p>											
1130	Cracking (RC and Other)	each	19.00	0%	0.00	0%	0.00	100%	19.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete abutments.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete abutments.</p>											

220	Re Conc Pile Cap/Ftg
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
220	Re Conc Pile Cap/Ftg	ft	32.81	90%	29.53	10%	3.28	0%	0.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See the 8/7/2013 Underwater Inspection Report.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

		234		Re Conc Pier Cap							
Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
234	Re Conc Pier Cap	ft	388.00	0%	0.00	46%	178.00	49%	190.00	5%	20.00

The concrete pier caps were inspected as part of this 7/15/2016 Special Inspection.

Concrete pier caps exhibit hairline cracks, random spalls with exposed rebar, large hollow areas, concrete patches, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.

521	Conc Prot Coating	sq.ft	5,000.00	70%	3,500.00	0%	0.00	15%	750.00	15%	750.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.</p>											
3510	Year (Concrete Protect Coa	each	1,500.00	0%	0.00	0%	0.00	50%	750.00	50%	750.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.</p>											
1080	lamination/Spall/Patched Ar	each	308.00	0%	0.00	47%	144.00	47%	144.00	6%	20.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.</p>											
1090	Exposed Rebar	each	53.00	0%	0.00	51%	27.00	49%	26.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.</p>											
1120	Efflorescence/Rust Staining	each	15.00	0%	0.00	47%	7.00	53%	8.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.</p>											
1130	Cracking (RC and Other)	each	12.00	0%	0.00	0%	0.00	100%	12.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete pier caps.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete pier caps.</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

300	Strip Seal Exp Joint
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
300	Strip Seal Exp Joint	ft	93.00	0%	0.00	100%	93.00	0%	0.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #300 - Strip Seal Expansion Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

2310	Leakage	each	90.00	0%	0.00	100%	90.00	0%	0.00	0%	0.00
<i>See "Element #300 - Strip Seal Expansion Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											
2330	Seal Damage	each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
<i>See "Element #300 - Strip Seal Expansion Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											
2350	Debris Impaction	each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
<i>See "Element #300 - Strip Seal Expansion Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											
2370	etal Deterioration or Damag	each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
<i>See "Element #300 - Strip Seal Expansion Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											

301	Pourable Joint Seal
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
301	Pourable Joint Seal	ft	1,151.00	68%	786.00	30%	345.00	2%	20.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #301 - Pourable Joint Seals" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

2310	Leakage	each	344.00	0%	0.00	100%	344.00	0%	0.00	0%	0.00
<i>See "Element #301 - Pourable Joint Seals" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											
2330	Seal Damage	each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
<i>See "Element #301 - Pourable Joint Seals" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											
2360	Adjacent Deck or Header	each	20.00	0%	0.00	0%	0.00	100%	20.00	0%	0.00
<i>See "Element #301 - Pourable Joint Seals" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.</i>											

Rhode Island Department of Transportation
Bridge Inspection Report
Structure Inventory and Appraisal Sheet (English Units)

		310		Elastomeric Bearing							
Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
310	Elastomeric Bearing	each	401.00	34%	136.00	47%	190.00	19%	75.00	0%	0.00

The elastomeric bearings were inspected as part of this 7/15/2016 Special Inspection.

Elastomeric bearings typically exhibit bulging, loss of bearing area, corrosion and isolated misalignment.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for elastomeric bearings.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for elastomeric bearings.

2220	Alignment	each	4.00	0%	0.00	0%	0.00	100%	4.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for elastomeric bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for elastomeric bearings.</p>											
2230	Bulging, Splitting or Tearing	each	200.00	0%	0.00	75%	150.00	25%	50.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for elastomeric bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for elastomeric bearings.</p>											
2240	Loss of Bearing Area	each	61.00	0%	0.00	66%	40.00	34%	21.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for elastomeric bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for elastomeric bearings.</p>											

		311		Moveable Bearing							
Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
311	Moveable Bearing	each	11.00	0%	0.00	36%	4.00	64%	7.00	0%	0.00

The rocker bearings were inspected as part of this 7/15/2016 Special Inspection.

Rocker bearings typically exhibit gaps under masonry plates, light to heavy corrosion and undermined masonry plates due to pedestal deterioration.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for moveable bearings.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for moveable bearings.

515	Steel Protective Coating	sq.ft	132.00	0%	0.00	67%	88.00	33%	44.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for moveable bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for moveable bearings.</p>											
3420	el/Bub/Crack(Stl Protect Co	each	132.00	0%	0.00	67%	88.00	33%	44.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for moveable bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for moveable bearings.</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

1000	Corrosion	each	6.00	0%	0.00	67%	4.00	33%	2.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for moveable bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for moveable bearings.</p>											
2240	Loss of Bearing Area	each	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for moveable bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for moveable bearings.</p>											

313	Fixed Bearing
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
313	Fixed Bearing	each	11.00	0%	0.00	27%	3.00	73%	8.00	0%	0.00

The fixed bearings were inspected as part of this 7/15/2016 Special Inspection.

Fixed bearings typically exhibit gaps under masonry plates, light to heavy corrosion and undermined masonry plates due to pedestal deterioration.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for fixed bearings.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for fixed bearings.

515	Steel Protective Coating	sq.ft	110.00	0%	0.00	60%	66.00	40%	44.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for fixed bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for fixed bearings.</p>											
3420	el/Bub/Crack(Stl Protect Co	each	110.00	0%	0.00	60%	66.00	40%	44.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for fixed bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for fixed bearings.</p>											
1000	Corrosion	each	5.00	0%	0.00	60%	3.00	40%	2.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for fixed bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for fixed bearings.</p>											
2240	Loss of Bearing Area	each	6.00	0%	0.00	0%	0.00	100%	6.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for fixed bearings.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for fixed bearings.</p>											

321	Re Conc Approach Slab
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
321	Re Conc Approach Slab	sq.ft	2,352.00	0%	0.00	100%	2,352.00	0%	0.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #321 - Approach Slabs" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

510	Wearing Surfaces	sq.ft	2,352.00	0%	0.00	100%	2,352.00	0%	0.00	0%	0.00
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See "Element #321 - Approach Slabs" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

3220	Crack (Wearing Surface)	each	2,352.00	0%	0.00	100%	2,352.00	0%	0.00	0%	0.00
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See "Element #321 - Approach Slabs" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

331	Re Conc Bridge Railing
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
331	Re Conc Bridge Railing	ft	3,808.00	91%	3,456.00	9%	352.00	0%	0.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #331 - Reinforced Concrete Bridge Railing" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

1130	Cracking (RC and Other)	each	351.00	0%	0.00	100%	351.00	0%	0.00	0%	0.00
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See "Element #331 - Reinforced Concrete Bridge Railing" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

2330	Seal Damage	each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
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See "Element #331 - Reinforced Concrete Bridge Railing" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

8060	Scupper
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8060	Scupper	(EA)	27.00	0%	0.00	26%	7.00	74%	20.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #8060 - Scuppers" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

8208	R/C Spandrel Wall
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8208	R/C Spandrel Wall	ft	2,880.00	21%	614.00	45%	1,298.00	30%	863.00	4%	105.00

See "Element #144 - Reinforced Concrete Arch.pdf" and "Element #144 - Reinforced Concrete Arch - Fascia Arches (Spans 1 - 6, 8 - 13 and 1R - 3R) Defects Table.pdf" for details.

8213	R/C Return Wall
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8213	R/C Return Wall	(LF)	175.00	50%	87.00	45%	78.00	6%	10.00	0%	0.00

The concrete return walls were inspected as part of this 7/15/2016 Special Inspection.

Concrete return walls exhibit scattered hairline cracks, concrete discoloration, spalls up to 1/2" deep, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete return walls.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete return walls.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

1080	lamination/Spall/Patched Ar	each	44.00	0%	0.00	100%	44.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete return walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete return walls.</p>											
1120	Efflorescence/Rust Staining	each	23.00	0%	0.00	57%	13.00	43%	10.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete return walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete return walls.</p>											
1130	Cracking (RC and Other)	each	21.00	0%	0.00	100%	21.00	0%	0.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete return walls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete return walls.</p>											

8218	Backwall, All Types
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8218	Backwall, All Types	(LF)	230.00	45%	104.00	35%	80.00	20%	46.00	0%	0.00

The concrete backwalls were inspected as part of this 7/15/2016 Special Inspection.

Concrete backwalls exhibit scattered hairline cracks, hollow areas, spalls up to 2" deep, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete backwalls.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete backwalls.

1080	lamination/Spall/Patched Ar	each	80.00	0%	0.00	88%	70.00	13%	10.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete backwalls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete backwalls..</p>											
1120	Efflorescence/Rust Staining	each	23.00	0%	0.00	43%	10.00	57%	13.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete backwalls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete backwalls.</p>											
1130	Cracking (RC and Other)	each	23.00	0%	0.00	0%	0.00	100%	23.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete backwalls.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete backwalls.</p>											

8305	Asphaltic Joint Material
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8305	Asphaltic Joint Material	(LF)	1,438.00	69%	987.00	30%	431.00	1%	20.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #8305 - Asphaltic Plug Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

2310	Leakage	each	430.00	0%	0.00	100%	430.00	0%	0.00	0%	0.00
See "Element #8305 - Asphaltic Plug Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
2330	Seal Damage	each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
See "Element #8305 - Asphaltic Plug Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
2360	Adjacent Deck or Header	each	20.00	0%	0.00	0%	0.00	100%	20.00	0%	0.00
See "Element #8305 - Asphaltic Plug Joints" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											

8335	Guardrail, Vehicular
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8335	Guardrail, Vehicular	(LF)	700.00	95%	668.00	5%	32.00	0%	0.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #8335 - Vehicular Guardrail" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

7000	Damage	each	32.00	0%	0.00	100%	32.00	0%	0.00	0%	0.00
See "Element #8335 - Vehicular Guardrail" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											

8336	Conc Bridge Parapet
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8336	Conc Bridge Parapet	(LF)	700.00	0%	0.00	99%	695.00	1%	5.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #8336 - Concrete Bridge Parapet" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

1080	lamination/Spall/Patched Ar	each	175.00	0%	0.00	97%	170.00	3%	5.00	0%	0.00
See "Element #8336 - Concrete Bridge Parapet" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											
1130	Cracking (RC and Other)	each	525.00	0%	0.00	100%	525.00	0%	0.00	0%	0.00
See "Element #8336 - Concrete Bridge Parapet" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.											

8366	Rip Rap
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8366	Rip Rap	sq.ft	1,000.00	94%	940.00	3%	30.00	3%	30.00	0%	0.00

The stone and slope paved rip rap along the Gano Street Abutment R were inspected as part of this 7/15/2016 Special Inspection.

There are isolated settled and missing stones.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for stone and slope paved rip rap.

1220	Deterioration (Other)	each	60.00	0%	0.00	50%	30.00	50%	30.00	0%	0.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for stone and slope paved rip rap.											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

8367	Slope Blocks
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8367	Slope Blocks	sq.ft	700.00	85%	595.00	0%	0.00	15%	105.00	0%	0.00

The stone block protection along the Gano Street Abutment R was inspected as part of this 7/15/2016 Special Inspection .

There is mortar deterioration between the blocks.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for the stone block protection.

1610	Mortar Breakdown (Masonry)	each	105.00	0%	0.00	0%	0.00	100%	105.00	0%	0.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for the stone block protection.											

8370	Steel Diaphragms
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8370	Steel Diaphragms	(EA)	70.00	19%	13.00	51%	36.00	24%	17.00	6%	4.00

The steel diaphragms in span 7 were inspected as part of this 7/15/2016 Special Inspection.

Steel diaphragms exhibit peeling paint with moderate to heavy corrosion and section loss at supports, light rust with chalking of paint and a missing connection bolt.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.

515	Steel Protective Coating	sq.ft	1,800.00	21%	378.00	63%	1,125.00	12%	207.00	5%	90.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.											
3410	Chalk(Steel Protect Coatings)	each	900.00	0%	0.00	100%	900.00	0%	0.00	0%	0.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.											
3420	el/Bub/Crack(Stl Protect Co	each	522.00	0%	0.00	43%	225.00	40%	207.00	17%	90.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.											
1000	Corrosion	each	56.00	0%	0.00	64%	36.00	29%	16.00	7%	4.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.											
1020	Connection	each	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

8371	Conc Diaphragms
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8371	Conc Diaphragms	each	221.00	16%	35.00	33%	73.00	51%	113.00	0%	0.00

The concrete diaphragms were inspected as part of this 7/15/2016 Special Inspection.

Concrete diaphragms exhibit hairline cracks, spalls with exposed rebar and section loss on exposed rebars, hollow areas, concrete patches, efflorescence and rust stains.

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete diaphragms.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete diaphragms.

1080	lamination/Spall/Patched Ar	each	52.00	0%	0.00	0%	0.00	100%	52.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete diaphragms.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete diaphragms.</p>											
1090	Exposed Rebar	each	12.00	0%	0.00	92%	11.00	8%	1.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete diaphragms.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete diaphragms.</p>											
1120	Efflorescence/Rust Staining	each	11.00	0%	0.00	55%	6.00	45%	5.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete diaphragms.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete diaphragms.</p>											
1130	Cracking (RC and Other)	each	111.00	0%	0.00	50%	56.00	50%	55.00	0%	0.00
<p>See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies for concrete diaphragms.</p> <p>See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies for concrete diaphragms.</p>											

8398	Curb/sidewalks - Con
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Elm	Description	Unit	Total Qty	% St 1	Qty. St 1	%St 2	Qty.St 2	%St 3	Qty. St 3	% St 4	Qty.St 4
8398	Curb/sidewalks - Con	ft	700.00	0%	0.00	100%	700.00	0%	0.00	0%	0.00

Note: This element was not inspected during the 2016 Special Inspection.

See "Element #8398 - Curbs/Sidewalks" in pdf. file named "Br. 700 Element Summary Notes Combined" for details.

1120	Efflorescence/Rust Staining	each	695.00	0%	0.00	100%	695.00	0%	0.00	0%	0.00
<p>See "Element #8398 - Curbs/Sidewalks" in pdf. file named "Br. 700 Element Summary Notes Combined" for details</p>											
4000	Settlement	each	5.00	0%	0.00	100%	5.00	0%	0.00	0%	0.00
<p>See "Element #8398 - Curbs/Sidewalks" in pdf. file named "Br. 700 Element Summary Notes Combined" for details</p>											

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

BRIDGE NOTES

Orientation: The Mainline of the bridge (I-195 WB) is logged west to east with Girder A at the north fascia. The Gano Street Ramp portion of the bridge is logged north to south comprising of Spans 1R, 2R and 3R.

Weight Limits: The bridge is posted for "No Blanket Permit Vehicles" at the East Approaches of I-95WB and the On-Ramp per the previous inspection report.

Access:

Access water spans 4 – 10 and dock barge at East Providence Yacht club.

Access land spans 11 – 14 through CARDI construction site gate.

Access key for box girder hatches provided by RIDOT (Craig Nazareth).

Electrical room in East Abutment was not accessed per direction from RIDOT.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

PAST INSPECTION

Inspection Date: 07/15/2016

Type: 4 Special

Inspector: [REDACTED]

Pontis User Key: [REDACTED]

Scope:

NBI:

Other:

Element:

Underwater:

Fracture Critical:

INSPECTION NOTES

SPECIAL INSPECTION

Dates: 6/27/2016 – 7/1/2016, 7/5/2016 – 7/6/2016, 7/11/2016 – 7/15/2016

Inspected by TranSystems

Team Leader: [REDACTED]

Team Member: [REDACTED]

Weather: Varied from cloudy, isolated thunderstorms to sunny, with a temperature range of 70°F - 90°F.

This special inspection was for the superstructure and substructure only; to inspect the deteriorated condition of elements.

Equipment: 60' bucket boat, 60' manlift, 30' Lift truck and 24' ladder.

Traffic Control performed: Lane closures with local police on Valley Street, Waterfront Drive, Water Street, and Gano Street.

NBI Rating: The overall structure condition rating is 4 - Poor. The ratings for the Deck (Item 58), Superstructure (Item 59), Substructure (Item 60) and Channel (Item 61) were found to be 6 - Satisfactory, 4 - Poor, 4 - Poor and 7 - Minor Damage, respectively and have not changed.

DEFLECTION AND VIBRATION: There was no significant vibration or deflection noted.

UTILITIES: See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" under "Additional Bridge Notes"

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies. See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.

Note: The previously noted Critical Finding reported to RIDOT on 7/7/2015 for loose deck concrete was not considered part of this Special Inspection. However, no loose concrete was visible at the time of inspection.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

PAST INSPECTION

Inspection Date: 07/28/2015

Type: 1 Regular NBI

Inspector:

Pontis User Key: [REDACTED]

Scope:

NBI:

Other:

Element:

Underwater:

Fracture Critical:

INSPECTION NOTES

Routine Inspection by: AECOM

Dates: 7/6/15 to 7/10/15; 7/13/15 to 7/20/15; 7/21/15; 7/23/15; 7/27/15 and 7/28/15

Team Leader: [REDACTED]

Team Member: [REDACTED]

Weather: Varied from cloudy to sunny and 70°F-95°F.

Equipment: Barge with 60' mounted manlift used to inspect spans over Seekonk River. 60' manlift used to inspect spans over local roads and dirt areas. A 24' ladder was used to gain access to Gano Street ramp box girder interiors (Photo 203).

Traffic Control: Lane closures with local police required on Valley Street, Waterfront Drive, Water Street, and Gano Street. Rolling right lane closure on I-195 WB with TMA and state police.

Access:

Access water spans 4 – 10 and dock barge at East Providence Yacht club.

Access land spans 11 – 14 through CARDI construction site gate.

Access key for box girder hatches provided by RIDOT (Craig Nazareth).

Electrical room in East Abutment could not be accessed.

Orientation: The Mainline of the bridge (I-195 WB) is logged west to east with Girder A at the north. The Gano Street Ramp portion of the bridge is logged north to south comprising of Spans 1R, 2R and 3R. See "Element #105 – Reinforced Concrete Closed Box Girder Defects Table.pdf" for sketch of the box girder interior orientation.

Critical Findings: RIDOT was notified on 7/7/2015 via email and telephone of loose soffit concrete in Span 18 over the Valley Street roadway.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

Routine Inspection by AI Engineers Inc on 06/24/13 thru 08/02/13 and inspected in conjunction with Bridge # 020001

Crew Chief: Alan Tarasenko

Crew Members: Lee Perkins, Amanda Parker, Ziad Ismail.

Weather: Varied from cloudy to sunny and 70°F-95°F.

The Mainline bridge (I-195 WB) is logged west to east with Girder A at the north. The Gano Street Ramp bridge is also logged west to east with cell 1 at the north fascia consistent with the previous inspection report. The Seekonk River flow is tidal.

NBIS Rating: The overall bridge rating is in poor condition (Rated '4'). The condition ratings for the deck (Item 58, Rated '6'), the superstructure (Item 59, Rated '4') and the channel and channel protection (Item 61, Rated '7') remain unchanged. The NBIS rating for the Substructure (Item 60) changed from rated '5' to rated '4' to reflect the field conditions.

Rhode Island Department of Transportation

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

WORK CANDIDATES

Work Candidate ID	Action	Agency Status	Agency Priority	Assigned to a Project	Rec. Date	Comp. Date
0000000-ETXM-101415-753786 560B	Bridge-Rehab	Unknown	High	0	07/28/2015	

Bridge rehab project scheduled for 2016.

[TranSystems – revised per 2016 Special Inspection]

Repair quantity is based on total defect quantity for each element.

Superstructure:

- Total Reinforced Concrete Closed Box Girder (Element # 105) repair quantity (857 LF)
- Total Steel Open Girder (Element #107) repair quantity (644 LF)
- Total Prestressed Concrete Open Girder (Element #109) repair quantity (2819 LF)
- Total Reinforced Concrete Arch (Element #144) repair quantity (2266 LF)
- Total Elastomeric Bearing (Element #310) repair quantity (265 EA)
- Total Movable Bearing (Element #311) repair quantity (11 EA)
- Total Fixed Bearing (Element #313) repair quantity (11 EA)
- Total Steel Diaphragms (Element #8370) repair quantity (21 EA)
- Total Concrete Diaphragms (Element #8371) repair quantity (186 EA)

Substructure:

- Total Reinforced Concrete Column (Element #205) repair quantity (59 EA)
- Total Reinforced Concrete Pier Wall (Element #210) repair quantity (259 LF)
- Total Reinforced Concrete Abutment (Element # 215) repair quantity (152 LF)
- Total Reinforced Concrete Pier Cap (Element #234) repair quantity (388 LF)
- Total Reinforced Concrete Return Wall (Element #8213) repair quantity (88 LF)
- Total Backwall (Element # 8218) repair quantity (126 LF)
- Total Riprap (#8366) repair quantity (60 SF)
- Total Slope Blocks (#8367) repair quantity (105 SF)

See pdf. file named "Br. 700 Defects Tables Combined.pdf" for orientation drawings and a tabulation of deficiencies.

See pdf. file named "Br. 700 Element Summary Notes Combined.pdf" for a summary of deficiencies.

0000000-XLNE-070815-FA9273 3581	Chipping of loose Concrete	Completed	High	0	08/07/2013	07/13/2015
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See e-mail from AECOM dated 07/07/2015. There are three locations with delaminated/spalled concrete on the concrete deck soffit. All three locations are over roadways. Dave Fish instructed Maintenance to remove the loose concrete on 07/08/2015.