

## STATE OF RHODE ISLAND JUDICIARY

# **SUPERIOR COURT** OMNIBUS CALENDAR ASSIGNMENT FORM

☐ Providence/Bristol County ☐	<b>Kent County</b>	<b>□</b> Washington C	ounty   Newport County
			CASE NUMBER
	VS.		
CALENDAR TYPE M	UST BE SELE	ECTED FOR SCHE	DULING PURPOSES
☐ FORMAL SPECIAL CAUSE CALENDA	R □ BUSINESS	CALENDAR DISP	OSITIVE MOTION CALENDAR
FORMAL SP	ECIAL CAUS	E AND BUSINESS	CALENDAR
☐ AGENCY APPEAL		MOTION FOR PROTE	CTIVE ORDER
☐ ASSESSMENT OF DAMAGES		MOTION TO RECONS	SIDER
☐ APPOINTMENT OF A SPECIAL MAST	ER 🗆	ORAL PROOF OF CLA	AIM
☐ CONFIRM ARBITRATION		PETITION TO ALLOW	V SECURED CLAIM
☐ DECLARATORY JUDGMENT		PETITION TO APPOIN	NT TEMPORARY RECEIVER
☐ ENTRY OF JUDGMENT		PROOF OF CLAIM	
☐ EVIDENTIARY HEARING		PETITION TO ENFOR	CE
☐ FIRST AND FINAL REPORT		PETITION FOR INSTR	RUCTIONS
☐ FORECLOSURE OF RIGHT OF REDEM	PTION	PRELIMINARY INJUI	NCTION
☐ FRIENDLY SUIT		APPOINTMENT OF P	ERMANENT SPECIAL MASTER
☐ APPOINTMENT OF PERMANENT REC	EIVER 🗆	PETITION TO RECLA	IM
☐ MOTION TO ATTACH		PARTITION PROCEE	DINGS
☐ MOTION FOR ATTORNEYS FEES		PETITION TO SELL	
☐ MOTION TO COMPEL RECEIVER		RECEIVERSHIP PROC	CEEDINGS
☐ MOTION TO DEFAULT		SHOW CAUSE HEAR	ING
☐ MOTION FOR ENTRY OF FINAL JUDG	SMENT	SUPPLEMENTARY P	ROCEEDINGS
☐ MECHANIC'S LIEN		TITLE PROCEEDINGS	S
☐ MOTION FOR APPROVAL		TEMPORARY RESTR	AINING ORDER
☐ MANDATORY INJUNCTION		TRUSTEE PROCEEDI	NGS
☐ MOTION TO ADJUDGE IN CONTEMPT	Γ 🗆	VACATE ARBITRATI	ION
☐ OTHER FORMAL MATTER (EXPLAIN)		WRIT OF MANDAMU	JS
		WRIT OF REPLEVIN	
OTHER BUSINESS MATTER (EXPLAIN)			
If you require witnesses, state the estima	ited time frame	of said hearing and at	tach a witness list and expected
testimony to this form.			
DISPO	SITIVE MOT	TION CALENDAR	
☐ MOTION TO DISMISS, UNDER RULE 1		☐ MOTION FOR PA	ARTIAL SUMMARY
☐ MOTION FOR ENTRY OF JUDGMENT			
☐ OTHER DISPOSITIVE MOTION: (EXPLAIN			UMMARY JUDGMENT
		-	
HEADING DATE.		APPROVED BY:	
HEARING DATE:			
Failure to fill out this form prop	perly may resu	It in your hearing d	ate not being approved.
Signature of Attorney or Self-represer	nted Litigant	Address:	
Rhode Island Bar Number:	Office Teleph	one Number:	Date:

Filed in Providence/Bristol County Superior Court

Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R.

STATE OF RHODE ISLAND PROVIDENCE, S.C.

SUPERIOR COURT CIVIL ACTION NO. PC-2024-04526

**HEARING DATE**: TBD Before Judge Stern

STATE OF RHODE ISLAND,

Plaintiff,

V.

AECOM TECHNICAL SERVICES, INC., AETNA BRIDGE COMPANY, ARIES SUPPORT SERVICES INC., BARLETTA HEAVY DIVISION, INC., BARLETTA/AETNA I-195 WASHINGTON BRIDGE NORTH PHASE 2 JV, COLLINS ENGINEERS, INC., COMMONWEALTH ENGINEERS & CONSULTANTS, INC., JACOBS ENGINEERING GROUP, INC., MICHAEL BAKER INTERNATIONAL, INC., PRIME AE GROUP, INC., STEERE ENGINEERING, INC., TRANSYSTEMS CORPORATION, and VANASSE HANGEN BRUSTLIN, INC.,

Defendants.

# DEFENDANT COMMONWEALTH ENGINEERS & CONSULTANTS, INC.'S MOTION TO DISMISS

Pursuant to Rule 12(b)(6) of the Rhode Island Superior Court Rules of Civil Procedure, the defendant, Commonwealth Engineers & Consultants, Inc. ("Commonwealth Engineers"), hereby moves to dismiss Count III (Negligence re: 2019 and 2023 inspections), Count XVI (Negligence re: Joint Venture Proposal), Count XIX (Declaratory Judgment Regarding Non-Contractual

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Indemnity), and Count XX (Declaratory Judgment Regarding Contribution) of Plaintiff's

Complaint asserted against it.

Commonwealth Engineers' Motion should be granted for three reasons. First, whether pled

as negligence, indemnification, or contribution, the claims must all be dismissed under the

economic loss doctrine as seeking recovery of purely economic losses. See Franklin Grove Corp.

v. Drexel, 936 A.2d 1272, 1278 (R.I. 2007).

Second, the allegations fail to state a claim under Rule 12 (b)(6). The State's allegations

against Commonwealth Engineers are threefold: (1) that Commonwealth Engineers negligently

assisted AECOM in its July 24, 2019 inspection, (2) that Commonwealth Engineers negligently

assisted AECOM in its July 21, 2023 inspection, and (3) that the "Joint Venture" submitted a

proposal identifying rehabilitation tasks Commonwealth Engineers might perform on the bridge

for the Joint Venture. Regarding the first two allegations, the publicly-available reports of these

two inspections, which the Complaint incorporates by reference, conclusively show that

Commonwealth Engineers did not assist AECOM with either inspection. Regarding the third

allegation against Commonwealth Engineers, the factual allegations do not plausibly suggest an

entitlement to relief from Commonwealth Engineers because they are limited to allegations that

another co-defendant, the Joint Venture, made certain representations in a July 2021 proposal about

what design work Commonwealth Engineers might perform in the future if the Joint Venture were

awarded the bridge rehabilitation project. There is no allegation that Commonwealth Engineers

actually performed any relevant work or was under contract to do so.

Finally, there are three additional reasons for the Court to dismiss the declaratory relief

claims for noncontractual indemnity and contribution. First, the State has failed to join the

allegedly injured, unnamed third parties, as necessary "interested parties," making dismissal

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"mandatory" under the Uniform Declaratory Judgments Act. See R.I. Gen. § 9-30-11. Second,

the State lacks standing to bring these claims, as the Complaint's alleged injury-in-fact—that

unnamed third parties might bring a lawsuit against the State—is purely "hypothetical" and

"conjectural," rather than "actual or imminent." See <u>Bowen v. Mollis</u>, 945 A.2d 314, 317 (R.I.

2008). Third, the Complaint fails to state facts satisfying the respective elements of noncontractual

indemnity and contribution.

WHEREFORE, in light of the foregoing and the reasons set forth in the accompanying

Memorandum of Law, Commonwealth Engineers hereby requests that this Court grant its Motion

to Dismiss.

THE DEFENDANT, COMMONWEALTH ENGINEERS & CONSULTANTS, INC.,

By its Attorney,

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#### **CERTIFICATE OF SERVICE**

I, Susan M. Silva, hereby certify this 31 day of October, 2024, that the foregoing document was electronically filed and served electronically upon all parties on record.

Susan M. Silva, Esq.

2780642 14828-209478

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STATE OF RHODE ISLAND PROVIDENCE, S.C.

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STATE OF RHODE ISLAND,

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AECOM TECHNICAL SERVICES, INC., AETNA BRIDGE COMPANY, ARIES SUPPORT SERVICES INC., BARLETTA HEAVY DIVISION, INC., BARLETTA/AETNA I-195 WASHINGTON BRIDGE NORTH PHASE 2 JV, COLLINS ENGINEERS, INC., COMMONWEALTH ENGINEERS & CONSULTANTS, INC., JACOBS ENGINEERING GROUP, INC., MICHAEL BAKER INTERNATIONAL, INC., PRIME AE GROUP, INC., STEERE ENGINEERING, INC., TRANSYSTEMS CORPORATION, and VANASSE HANGEN BRUSTLIN, INC.,

Defendants.

# MEMORANDUM OF LAW IN SUPPORT OF DEFENDANT COMMONWEALTH ENGINEERS & CONSULTANTS, INC.'S MOTION TO DISMISS

#### INTRODUCTION

The State of Rhode Island filed this lawsuit against thirteen defendants following the emergency closure of the I-195 westbound Washington Bridge, formally known as the Washington Bridge North No. 700. The emergency closure came after it was discovered that steel tie-down rods—critical to the stability of the bridge—had fractured, putting the bridge at risk of collapse.

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On December 11, 2023, the State closed the bridge "to protect public safety and prevent

catastrophic injuries to persons and property." (Complaint, p. 4). It was later determined that

Washington Bridge North No. 700 will need to be demolished, redesigned, and rebuilt at the cost

of hundreds of millions of dollars. These are purely economic losses and are therefore not

recoverable in a negligence cause of action. See Boston Investment Property # 1 State v. E.W.

Burman, Inc., 658 A.2d 515, 517 (R.I. 1995).

The State asserts four causes of action against Commonwealth Engineers & Consultants,

Inc. ("Commonwealth Engineers"), all based in negligence. The counts are: Count III (Negligence

re: 2019 and 2023 inspections), Count XVI (Negligence re: Joint Venture Proposal), Count XIX

(Declaratory Judgment Regarding Non-Contractual Indemnity), and Count XX (Declaratory

Judgment Regarding Contribution). Whether pled as negligence, indemnification, or contribution,

the claims must all be dismissed under the economic loss doctrine as seeking recovery of purely

economic losses. See Franklin Grove Corp. v. Drexel, 936 A.2d 1272, 1278 (R.I. 2007) (economic

loss doctrine applies to negligence claims as well as derivative claims for indemnification and

contribution).

The State's claims against Commonwealth Engineers must be dismissed for a second

independent reason, that is, for failing to state a claim under Rule 12(b)(6). The State's allegations

against Commonwealth Engineers are threefold: (1) that Commonwealth Engineers negligently

assisted AECOM in its July 24, 2019 inspection, (2) that Commonwealth Engineers negligently

assisted AECOM in its July 21, 2023 inspection, and (3) that the "Joint Venture" submitted a

proposal identifying rehabilitation tasks Commonwealth Engineers might perform on the bridge

for the Joint Venture. (See Complaint, ¶¶ 88-89, 107). Regarding the first two allegations, the

publicly-available reports of these two inspections, which the Complaint incorporates by reference,

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(see Complaint, ¶ 68), conclusively show that Commonwealth Engineers did not assist AECOM

with either inspection, (see Inspection Reports attached as Exhibits 1 and 2). Regarding the third

allegation against Commonwealth Engineers, the factual allegations do not plausibly suggest an

entitlement to relief from Commonwealth Engineers because they are limited to allegations that

another co-defendant, the Joint Venture, made certain representations in a July 2021 proposal about

what design work Commonwealth Engineers might perform in the future if the Joint Venture were

awarded the bridge rehabilitation project. (See Complaint, ¶¶ 88-91). There is no allegation that

Commonwealth Engineers actually performed any work or was under contract to do so. Thus, the

Complaint does not (and cannot) plausibly allege that Commonwealth Engineers performed or had

a duty to perform design services related to the relevant components of Washington Bridge North

No. 700.

Finally, there are three additional reasons for the Court to dismiss the declaratory relief

claims for noncontractual indemnity and contribution. First, the State has failed to join the

allegedly injured, unnamed third parties, as necessary "interested parties," making dismissal

"mandatory" under the Uniform Declaratory Judgments Act. See R.I. Gen. § 9-30-11; Burns v.

Moorland Farm Condo. Ass'n, 86 A.3d 354, 358 (R.I. 2014). Second, the State lacks standing to

bring these claims, as the Complaint's alleged injury-in-fact—that unnamed third parties might

bring a lawsuit against the State—is purely "hypothetical" and "conjectural," rather than "actual

or imminent." See Bowen v. Mollis, 945 A.2d 314, 317 (R.I. 2008). Third, the Complaint fails to

state facts satisfying the respective elements of noncontractual indemnity and contribution.

Accordingly, for all of the above reasons, the State's Complaint must be dismissed as to

Commonwealth Engineers in its entirety.

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#### FACTS<sup>1</sup>

#### A. Overview

The Plaintiff is the State of Rhode Island (the "State" or "Plaintiff"), which includes its Department of Transportation ("RIDOT"), an executive department established pursuant to R.I. Gen. Laws § 42-13-1. (Complaint, ¶ 1). The State filed this lawsuit against thirteen defendants seeking damages following the emergency closure of the I-195 westbound Washington Bridge, formally known as the Washington Bridge North No. 700 ("Westbound Bridge").<sup>2</sup> The closure was necessitated by the discovery of two issues: first, that a number a steel tie-down rods critical to the stability of the bridge had fractured, (Complaint, p. 4; ¶¶ 30, 92-94), and second, extensive deterioration in the post-tensioning system in cantilever beams used throughout the bridge, (Complaint, p. 4; ¶¶ 30, 95). These two critical components—tie-down rods and post-tensioning system—are parts of the superstructure of the bridge. The State alleges that the various defendants should have conducted inspections of the Westbound Bridge, recognized the importance and significance of the tie-down rods as critical to the stability of the bridge, performed an investigation into or evaluation of the cracking discovered along the post-tensioned cables in the post-tensioned cantilever beams, and recommended repairs to address the same. (Complaint, ¶ 109, 170). The State had contracts with several defendants. The State did not have a contract with Commonwealth Engineers. Absent from the Complaint is any allegation setting forth the basis of a duty running

<sup>&</sup>lt;sup>1</sup> For purposes of this Motion only, the following facts are taken from Plaintiff's Complaint.

<sup>&</sup>lt;sup>2</sup> The Complaint uses the shorthand "the Washington Bridge" to mean the bridge at issue—Washington Bridge North No. 700 carrying westbound I-195 traffic. (Complaint, p. 4). This Motion uses either the full official name or the shorthand "Westbound Bridge" to avoid any confusion with the two other bridges that make up the Washington Bridge: Washington Bridge South No. 200 (carrying eastbound traffic of I-195, and referred to herein as the "Eastbound Bridge") and the Washington Bridge No. 20021 (the pedestrian bridge). Neither of those bridges are at issue in this lawsuit.

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from Commonwealth Engineers to the State to inspect or make recommendations concerning the

tie-down rods and post-tensioning system (or the superstructure of the bridge more generally).

B. Washington Bridge North No. 700 Design and Critical Components

Washington Bridge North No. 700 was originally designed in the late 1960s and opened to

traffic in 1968. (Complaint, ¶¶ 18-19). According to the Complaint, the Westbound Bridge has an

"extremely unusual design and may be the only bridge of its kind in the United States, if not the

world." (Complaint, ¶ 20). The structure is composed of eighteen spans of various structural

types, including post-tensioned cantilever beams. (Complaint, ¶ 21). The post-tensioned

cantilever beams have two general configurations with the bridge, a balanced cantilever

configuration and an unbalanced cantilever configuration. (Complaint, ¶ 22). In the balanced

cantilever configuration, stability of the cantilever beam is established by the weight of adjacent

drop-in prestressed girder spans and vertical rods anchoring the cantilever beam to the supporting

pier. (Complaint, ¶ 23). In the unbalanced cantilever configuration, a drop-in prestressed girder

span is only located on one end of the cantilever. The stability of the unbalanced cantilever is

maintained by tie-down rods located on the opposite end of the beam from the drop-in span.

(Complaint, ¶ 24). In addition to using tie-down rods, the original design also incorporated the

use of post-tensioned cables in concrete beams used throughout the bridge. (Complaint, ¶ 26).

The post-tensioned cables were used to construct post-tensioned concrete beams to provide

stability to the bridge and prevent the beams from cracking when carrying live traffic loads.

(Complaint, ¶ 27). The Complaint is very clear that the two critical components at risk of failure

were the tie-down rods and post-tensioning system. (Complaint, ¶ 30, 92-95). Both components

are part of the superstructure of the bridge.

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> C. AECOM Inspections of the Washington Bridge North No. 700 and Commonwealth Engineers' Alleged Assistance with These Inspections

The Complaint details the history of the Washington Bridge North No. 700, beginning in the 1990s with the Lichtenstein Report, (Complaint, ¶¶ 33-39), and going through the 2017 planned rehabilitation of the bridge, which was suspended due to "unacceptable levels of traffic, congestion, and delays," (Complaint, ¶ 67, ¶¶ 40-67).

From 2015 until the fractured tie-down rods were discovered in December 2023, five engineering firms, including defendant AECOM, oversaw inspections of the Westbound Bridge and reported their findings to RIDOT pursuant to inspection contracts between the State and such firms. (Complaint, ¶ 68). Commonwealth Engineers was not one of those five engineering firms. (Complaint,  $\P$  73).

The only allegation related to Commonwealth Engineers and these inspections can be found in Count III of the Complaint alleging that "Commonwealth Engineers assisted AECOM in conducting the July 24, 2019 and the July 21, 2023 inspections of the Washington Bridge." (Complaint, ¶ 108) (emphasis added). However, as will be explained below, Commonwealth Engineers did not assist AECOM with these inspections, and the State's own reports prove it.

According to the Complaint, the firm that conducted each inspection "reported their findings to RIDOT". (Complaint, ¶ 68). The Complaint incorporates these inspection reports, as these documents are "sufficiently referred to in the [C]omplaint." Mokwenyei v. Rhode Island Hospital, 198 A.3d 17, 22 (R.I. 2018). According to those reports, the July 24, 2019 and July 21, 2023 inspections of the Westbound Bridge were performed by AECOM alone, without the assistance of Commonwealth Engineers. Compare Ex. 1 (inspection performed by "AECOM") and Ex. 2 (inspection performed by "AECOM"), with Ex. 3 (2023 inspection report for adjacent Eastbound Bridge inspected by "AECOM-COMMONWEALTH").

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#### D. Joint Venture Embarks on the Design-Build of the Washington Bridge North No. 700

On or about March 17, 2021, RIDOT issued RFP/Bid No. 7611889—a request for proposals entitled "Best Value Design-Build Procurement for Bridge Group 57T-10: I-195 Washington Bridge North Phase 2". (Complaint, ¶ 78). On or about July 2, 2021, the Joint Venture<sup>3</sup> submitted a Design-Build Proposal. (Complaint, ¶ 82). Absent from the Complaint is any allegation that Commonwealth Engineers prepared or participated in the preparation of the proposal. The only factual allegations concerning Commonwealth Engineers relate to representations the Joint Venture made in its proposal concerning the design services the Joint Venture expected Commonwealth Engineers would perform if the Joint Venture was awarded the project. (Complaint, ¶¶ 84, 88, 89). Absent from the Complaint is any allegation that Commonwealth Engineers contracted with the State, the Joint Venture, VHB, or any other entity to actually perform those design services.<sup>4</sup>

#### E. <u>Bridge Closure and Claimed Damages</u>

On December 8, 2023, VHB identified tie-down rod failures at Pier 7 and tie-down rods compromised at Pier 6. (Complaint, ¶ 92). On December 11, 2023, RIDOT issued an emergency declaration closing Washington Bridge North No. 700. (Complaint, ¶ 94). Subsequent investigation "revealed the existence of unaddressed voids, poor grout, moisture, and corrosion,

<sup>3</sup> 

<sup>&</sup>lt;sup>3</sup> The Joint Venture is defendant Barletta/Aetna I-195 Washington Bridge North Phase 2 JV, which is a joint venture between defendants Barletta Heavy Division, Inc. and Aetna Bridge Company. (Complaint, ¶ 6).

<sup>&</sup>lt;sup>4</sup> The State's failure to allege that Commonwealth Engineers contracted to perform relevant design services is not an oversight. The only design services Commonwealth Engineers provided on Washington Bridge North No. 700 concerned the <u>substructure</u> of the bridge. The substructure refers to supporting foundation, including elements like piers, abutments, and footings. The critical components at issue in this case (tie-down rods and post-tensioning system) are part of the <u>superstructure</u> of the bridge. The superstructure refers to the upper part of the bridge that supports the deck (where traffic travels) and spans the obstacle the bridge crosses.

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resulting in widespread deterioration of the post-tensioning system, critical to the safety and

structural integrity of the bridge, such that the only reasonable option is to demolish and replace

the existing bridge." (Complaint, ¶ 95).

According to the Complaint, the bridge replacement is expected to cost "hundreds of

millions of dollars". (Complaint, p. 4). The Complaint seeks to "hold those liable for the physical

damage to its property [i.e. the bridge itself] and for the economic losses it has and will in the

future suffer." (Complaint, p. 4; ¶ 110, 171). The Complaint does not allege personal injury or

other property damage.

STANDARD OF REVIEW

Pursuant to Rule 12(b)(6), this Court is empowered to dismiss any and all claims that fail

to state a claim upon which relief can be granted. See Banki v. Fine, 224 A.3d 88, 94 (R.I. 2020).

In assessing a motion to dismiss under Rule 12, "the trial justice must look no further than the

complaint, [must] assume that all allegations in the compliant are true, and resolve any doubts in

a plaintiff's favor." Pontarelli v. Rhode Island Department of Elementary and Secondary

Education, 176 A.3d 472, 476 (R.I. 2018) (brackets and internal quotations omitted) (quoting

Multi-State Restoration, Inc. v. DWS Properties, LLC, 61 A.3d 414, 416 (R.I. 2013)). A motion

to dismiss may be properly granted only "if it appears beyond a reasonable doubt that a plaintiff

would not be entitled to relief under any conceivable set of facts." Id. (deletion omitted) (quoting

Multi-State Restoration, Inc., 61 A.3d at 417); see also Banki, 224 A.3d at 94.

However, the trial justice may also consider "documents the authenticity of which are not

disputed by the parties; for official public records; for documents central to plaintiffs' claim; or for

documents sufficiently referred to in the complaint . . . " Mokwenyei v. Rhode Island Hospital,

198 A.3d 17, 22 (2018).

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#### <u>ARGUMENT</u>

# I. THE STATE'S CLAIMS AGAINST COMMONWEALTH ENGINEERS ARE BARRED BY THE ECONOMIC LOSS DOCTRINE

The economic loss doctrine provides that "a plaintiff is precluded from recovering purely economic losses in a negligence cause of action." <u>Boston Investment Property # 1 State v. E.W. Burman, Inc.</u>, 658 A.2d 515, 517 (R.I.1995). The doctrine reasons that contract law—not tort law—provides the appropriate avenue for recovery between sophisticated commercial entities when there is no personal injury or physical injury to property. <u>Franklin Grove Corp. v. Drexel</u>, 936 A.2d 1272, 1275 (R.I. 2007). Here, all of the States' claims against Commonwealth Engineers sound in negligence. The damage alleged are purely economic losses: damage to the bridge itself and "other economic losses." Accordingly, the claims against Commonwealth Engineers are barred by the economic loss doctrine and must be dismissed.

The rationale for the rule, as articulated by our Supreme Court, is that "tort principles, such as negligence, are better suited for resolving claims involving unanticipated physical injury." Boston Inv. Prop. # 1 State, 658 A.2d at 518 (quoting Spring Motors Distribs., Inc. v. Ford Motor Co., 98 N.J. 555, 579-80, 489 A.2d 660, 672 (1985)). In contrast, "[c]ontract principles . . . are generally more appropriate for determining claims for consequential damage that the parties have or could have addressed." Id.; see also Triton Realty Ltd. P'ship v. Almeida, No. C.A. PC04-2335, 2006 WL 2089255, at \*2 (R.I. Super. July 25, 2006) (Gibney, J., unpublished opinion) (dismissing complaint where parties were "sophisticated commercial entities involved in a commercial transaction" who could have "utilize[d] contract law to protect themselves from economic damages").

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#### A. The Damages Alleged by the State Are Purely Economic Losses

The damages alleged on the face of the Complaint are purely economic losses. These damages are: "physical damage to its property [i.e. the bridge itself] and for the economic losses it has and will in the future suffer." (Complaint, p. 4; ¶ 110, 171). Absent from the Complaint is any allegation of personal injury or other property damage. It is settled that property damage to the product itself (here, the bridge) does not suffice to overcome the economic loss doctrine. See Isla Nena Air Servs., Inc. v. Cessna Aircraft Co., 449 F.3d 85, 87 (1st Cir. 2006). "Under the economic loss rule, a party generally may not recover in tort when a defective product harms only the product itself [instead of a person or other property]." Id. (applying the economic loss doctrine where defects in airplane's component parts caused it to crash); see also N. Ins. Co. of New York v. Albin Mfg., Inc., No. C.A. 06-190-S, 2008 WL 3285852, at \*6 (D.R.I. Aug. 8, 2008), aff'd sub nom. N. Ins. Co. of New York v. Point Judith Marina, LLC, 579 F.3d 61 (1st Cir. 2009) (same). Other jurisdictions have applied the economic loss doctrine and dismissed claims under similar fact patterns where a design professional providing design services relative to a bridge was sued in negligence. See, e.g., BRW, Inc. v. Dufficy & Sons, Inc., 99 P.3d 66, 71 (Colo. 2004) (economic loss doctrine barred negligence claim based on incorrect primer applied to bridge steel); Pycsa Panama, S.A. v. Tensar Earth Techs., Inc., 625 F. Supp. 2d 1198, 1214, 1248 (S.D. Fla. 2008), aff'd, 329 F. App'x 257 (11th Cir. 2009) (economic loss doctrine barred negligence claim arising from bridge abutment collapse).

The economic loss doctrine bars plaintiffs from "recovering purely economic losses in a negligence cause of action." <u>Boston Inv. Prop. # 1 State</u>, 658 A.2d at 517. Economic loss is defined as "costs associated with repair and-or replacement of a defective product, or loss of profits consequent thereto, apart from any injury or damage to other property." <u>Hart Engineering Co. v.</u>

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FMC Corp., 593 F. Supp. 1471, 1481 n. 11 (D.R.I. 1984); Gail Frances, Inc. v. Alaska Diesel Elec.,

Inc., 62 F. Supp. 2d 511, 517 (D.R.I. 1999). If damage to the bridge itself could be recoverable, it

would subsume the economic loss doctrine entirely. Because the State seeks purely economic

damages, its remedy lies exclusively in contract law.

B. Lack of Privity Between State and Commonwealth Engineers Will Not Prevent

Application of the Doctrine

That there is no privity between the State and Commonwealth Engineers will not prevent

application of the economic loss doctrine. Hexagon Holdings, Inc. v. Carlisle Syntec Inc., 199

A.3d 1034 (R.I. 2019) is dispositive. Hexagon involved a series of claims by a commercial

building owner against the subcontractor which installed a roofing system alleging, among other

things, negligence. Id. at 1036-37. The plaintiff building owner (Hexagon) had a contract with

general contractor A/Z Construction, which in turn had a contract with the defendant subcontractor

McKenna. <u>Id.</u> There was no contract between the plaintiff building owner and the defendant

subcontractor. Id. Despite the absence of privity of contract, and despite the fact that the plaintiff

building owner could not sue the defendant subcontractor in breach of contract, the Rhode Island

Supreme Court applied the economic loss doctrine to dismiss the sole remaining claim of

negligence. Id. at 1042-43. The Court identified the issue and holding as follows:

The issue here is whether an owner of a commercial building may circumvent contractual privity with a general contractor by suing the subcontractor to evade application of the

economic loss doctrine. We answer this question in the

negative. Id.

The Court explained: "in the case of sophisticated commercial entities in the commercial real estate

market, contract law is the proper device to allocate economic risk." Id. at 1042. The Court further

held that "in the construction context between commercial entities" the economic loss doctrine

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applies to bar purely economic losses, and an injured party "must resort to contract law for

recovery." Id.

In the instant case, there is no contract between the State and Commonwealth Engineers.

In a construction context between commercial entities, the State must resort to contract law for

recovery. Perhaps in acknowledgment of this, the State has asserted breach of contract claims

against AECOM, VHB, and other defendants. When purely economic losses are alleged between

sophisticated commercial entities, as is the case here, the proper remedy is in breach of contract,

not negligence. See BRW, 99 P.3d at 72 (Supreme Court of Colorado explained that particularly

in the context of larger construction projects where multiple parties are involved, they rely on a

"network of contracts to allocate their risks, duties, and remedies."); Owen Bldg. LLC v. Victory

Heating & Air Conditioning Co., No. CV 20-00266-WES, 2021 WL 412282, at \*2 (D.R.I. Jan. 20,

2021), report and recommendation adopted, No. CV 20-266 WES, 2021 WL 409863 (D.R.I. Feb.

5, 2021) (dismissing negligence claim under similar owner/GC/subcontractor facts as presented in

Hexagon and instant case). Accordingly, all of the State's claims against Commonwealth

Engineers should be dismissed under the economic loss doctrine.

II. THE STATE'S COMPLAINT FAILS TO ALLEGE ANY WRONGFUL ACT OR OMISSION ON THE PART OF COMMONWEALTH ENGINEERS THAT COULD

SATISFY THE ELEMENTS OF NEGLIGENCE

The Complaint only alleges three wrongful acts on the part of Commonwealth Engineers,

and as will be shown below, none of these three allegations state a claim for negligence.

The first two alleged wrongful acts are that Commonwealth Engineers negligently assisted

AECOM with its inspections of the subject bridge, Washington Bridge North No. 700, on July 24,

2019 and July 21, 2023, respectively. (See Complaint, ¶ 106-10). However, the inspection reports

referred to in the Complaint, (see Complaint, ¶¶ 68, 74; Ex. 1-2), show that Commonwealth

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Engineers did not assist AECOM in the inspections of the subject Westbound Bridge. Instead,

both reports indicate that inspections were performed by "AECOM" alone. Accordingly, there is

no act or omission on the part of Commonwealth Engineers that could constitute negligence or

could have been the cause of any harm alleged in the Complaint to the State, nor could

Commonwealth Engineers have owed a duty to the State with respect the alleged inspections.

The third alleged wrongful act of Commonwealth Engineers is not an "act," rather it is the

mere allegation that under the Joint Venture Proposal, Commonwealth Engineers was proposed by

the Joint Venture to perform certain designs and other rehabilitation work on the Westbound

Bridge, as a subconsultant to VHB sometime in the future. (See Complaint, ¶ 88, 89). However,

the Complaint never alleges that Commonwealth Engineers actually did any designs or other work

on the Westbound Bridge. In fact, it says that the "rehabilitation plans" were "stamped VHB,

Barletta, and Aetna," not Commonwealth Engineers. (Complaint, ¶ 91). Absent from the

Complaint is any allegation relating to an act or omission on the part of Commonwealth Engineers

that could constitute negligence or could have caused any harm to the State, nor could

Commonwealth Engineers have owed a duty to the State based on these allegations that they were

proposed by another party to do something.

As set forth in more detail below, all of the causes of action against Commonwealth

Engineers (Counts III, XVI, XIX, and XX) fail to state a claim plausibly entitling the State to

relief.

A. The 2019 and 2023 Inspection Reports for the Westbound Bridge Show That

Commonwealth Engineers Did Not Conduct Those Inspections

The first two alleged wrongful acts are that Commonwealth Engineers negligently assisted

AECOM with its inspections of the subject bridge on July 24, 2019 and July 21, 2023, respectively.

(See Complaint, ¶¶ 106-110).

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While this Court must ordinarily "accept as true all well-pleaded factual averments in the

plaintiff's . . . complaint and indulge all reasonable inferences therefrom in his favor," <u>Katz v.</u>

Pershing, LLC, 672 F.3d 64, 70 (1st Cir. 2012), the Court must also consider appropriate materials

outside the pleadings, including here the publicly-available inspection reports referred to in the

Complaint. These exhibits "govern over inconsistent allegations in the pleading to the extent that

they 'render [those allegations] utterly implausible." Fitch v. Fed. Hous. Fin. Agency, No. 18-

CV-214JJM, 2021 WL 4901909, at \*5 (D.R.I. Oct. 21, 2021), report and recommendation adopted,

No. CV 18-214-JJM-PAS, 2022 WL 159287 (D.R.I. Jan. 18, 2022) (quoting Colesanti v. Becton

Dickinson, C.A. No. 18-491WES, 2019 WL 4043957, at \*9 (D.R.I. July 19, 2019)); see also

Hernandez v. Mortg. Elec. Registration Sys., Inc., No. CV 17-316WES, 2017 WL 10699613, at \*3

(D.R.I. Oct. 11, 2017) ("[I]n the event that the written instrument contradicts allegations in the

complaint to which it is attached, the exhibit trumps the allegations.") (internal quotation omitted).

In our case, the 2019 and 2023 inspection reports referred to in the Complaint (see

Complaint, ¶¶ 68, 74), make clear that Commonwealth Engineers did not assist AECOM with the

subject inspections of the Westbound Bridge. In ruling on this motion, the Court must credit the

2019 and 2023 inspection reports on this point. Ex. 1, 2. Under Mokwenyei v. Rhode Island

Hospital, 198 A.3d 17, 22 (R.I. 2018), these inspection reports are "sufficiently referred to in the

[C]omplaint," to be considered part of the Complaint. Furthermore, per Fitch and Hernandez,

these two reports state that AECOM conducted the 2019 and 2023 inspections without

Commonwealth Engineers' assistance, and that "trumps" the Complaint's allegations that they

assisted AECOM with the inspections.<sup>5</sup>

<sup>5</sup> To alleviate any doubt, please refer to the 2023 inspection report of the adjacent Eastbound

Bridge, which says the adjacent bridge was "inspected by: AECOM-COMMONWEALTH." Ex.

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Because the Complaint, by incorporation of the reports, shows that Commonwealth

Engineers did not conduct the two inspections of the Westbound Bridge, the Complaint's

allegations regarding these inspections do not state a claim for negligence on the part of

Commonwealth Engineers. To state a claim for negligence, a plaintiff must plausibly allege the

existence of four elements: "(1) a legally cognizable duty owed by defendant to plaintiff; (2)

breach of that duty; (3) that the conduct proximately caused the consequent injury; and (4) actual

loss, damage, or injury." Blouin v. Koster, 319 A.3d 654, 659-60 (R.I. 2024). Here, the

Complaint's allegations with respect to the 2019 and 2023 inspections cannot create a viable cause

of action for negligence. Put simply, Commonwealth Engineers cannot have owed a duty, nor

breached a duty, to the State with respect to inspections that they did not perform. Moreover,

because they did not perform the inspections, there is no act or omission that could have been the

cause of the State's injury, nor did the State suffer any injury as a result of their actions. Thus, the

Complaint fails to state a cause of action for negligence, with respect to the 2019 and 2023

inspections of the Westbound Bridge, as against Commonwealth Engineers. Accordingly, count

III and derivative counts XIX and XX must be dismissed.

B. The Complaint Never Alleges that Commonwealth Engineers Performed or Was

Contracted to Perform Any Work Under the Joint Venture Proposal

The Complaint's third allegation against Commonwealth Engineers relates to the Joint

Venture's proposal to the State for rehabilitation work on the Westbound Bridge. The Complaint

alleges that in 2021, the Joint Venture submitted proposals to the State for a project to rehabilitate

the bridge. Regarding Commonwealth Engineers, the Complaint alleges as follows:

Had Commonwealth Engineers assisted the other two inspections, it would have said

"AECOM-COMMONWEALTH," as with this inspection.

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84. The Joint Venture's Proposal identified VHB as its lead designer. . . . The proposal stated that VHB's design work would be supplemented by Commonwealth Engineers' design work.

- 88. The Joint Venture's proposal identified VHB's subconsultants on the project, including Commonwealth Engineers (which would be performing 'Structural/bridge design').
- 90. As part of its undertaking to extend the life expectancy of the bridge by twenty-five years, the proposal further stated: "Commonwealth and VHB will perform independent steel and camber designs as added quality review during the design phase" and "Commonwealth Engineers will perform independent review of structural steel, prestressed girder, and camber designs as well as *additional rehabilitation design tasks*." (Emphasis in original).
- On or about October 19, 2023, the Joint Venture issued rehabilitation plans stamped by VHB, Barletta, and Aetna.

In essence, the Complaint's allegations against Commonwealth Engineers with respect to the Joint Venture Proposal are that the Joint Venture <u>proposed</u> that Commonwealth would do certain tasks on the bridge, including designs and unspecified "additional rehabilitation tasks." However, the Complaint never alleges that Commonwealth Engineers actually performed these tasks, agreed to perform these tasks, or entered into a contract related to performance of these tasks. In fact, the Complaint says that the "rehabilitation plans [were] stamped by VHB, Barletta, and Aetna," not by Commonwealth Engineers. The absence of these allegations is not surprising given that Commonwealth Engineers in fact did not perform any tasks related to the superstructure of the Westbound Bridge where the at-issue components were located.

Because the Complaint never alleges that Commonwealth Engineers performed or agreed to perform any tasks under the Joint Venture's 2021 proposal, this third allegation against it cannot form the basis of any cause of action against it. As previously stated, to state a claim for negligence, a plaintiff must plausibly allege the existence of four elements: "(1) a legally cognizable duty owed by defendant to plaintiff; (2) breach of that duty; (3) that the conduct

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proximately caused the consequent injury; and (4) actual loss, damage, or injury." Blouin, 319

A.3d at 659-60. Here, the Complaint's allegations regarding VHB's proposal do not state a claim

for negligence. Regarding duty, there is no allegation that the State or anyone else contracted

Commonwealth Engineers to perform the work under the proposal, or that it undertook that work,

as to create a duty. Regarding breach and causation, Commonwealth Engineers could not have

negligently performed services and, in turn, caused any damages to the State, since, again, there is

no allegation that it performed any services under the proposal. Finally, the fact that the first three

elements fail, necessarily means that Commonwealth Engineers could not have caused the State

any damages.

Therefore, the Complaint's third allegation of a wrongful act by Commonwealth Engineers

(the 2021 Joint Venture proposal) cannot underlie any cause of action. Accordingly, the

Complaint's causes of action against Commonwealth Engineers that are based on proposed work,

not actual work (Count XVI-Negligence, Count XIX-Declaratory Judgment [noncontractual

indemnity], and Count XX Declaratory Judgment [contribution]), fail as a matter of law.

III. THE COURT MUST DISMISS THE CAUSES OF ACTION FOR DECLARATORY RELIEF AS TO COMMONWEALTH ENGINEERS (COUNTS XIX & XX) FOR

THREE INDEPENDENT REASONS

The Complaint also asserts causes of action for "Declaratory Judgment Regarding Non-

Contractual Indemnity" (count XIX) and "Declaratory Judgment Regarding Contribution" (count

XX). These counts fail for the same reasons outlined above, and for three additional independent

reasons.

First, the State has not joined in this lawsuit the hypothetical third parties who might one

day sue the State. This violates the "mandatory" requirement under the Uniform Declaratory

Judgment Act for the party seeking relief to join all interested parties. See R.I. Gen. § 9-30-11.

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Second, the Complaint never alleges that a specific third party is bringing or is likely to

bring a claim for damages against the State. (See Complaint, ¶¶ 184, 188). Thus, the State lacks

standing to bring a declaratory relief claim, as the Complaint's alleged injury-in-fact is purely

"conjectural" and "hypothetical," rather than "actual or imminent." See Bowen v. Mollis, 945

A.2d 314, 317 (R.I. 2008)).

Finally, the Complaint's failure to specify either the third party or the factual basis for joint

liability also constitutes a failure to plead the required elements of indemnity and contribution. As

plead, the declaratory counts do not give Commonwealth Engineers fair notice of the claims.

A. The State Has Failed to Join the Third Parties Who Have an Interest in the Outcome of the

Declaratory Relief Causes of Action

The "Uniform Declaratory Judgments Act" (UDJA) authorizes Rhode Island courts to

issue "declaratory judgments." See R.I. Gen. Laws § 9-30-1. One requirement under the Act

is that "[w]hen declaratory relief is sought, all persons shall be made parties who have or claim

any interest which would be affected by the declaration and no declaration shall prejudice the

rights of persons to the proceeding." R.I. Gen. Laws § 9-30-11. According to the Supreme

Court of Rhode Island, the requirement to join all interested parties is "mandatory," and thus,

the Court has said, "failure to join all persons who have an interest that would be affected by

the declaration' is fatal." Burns v. Moorland Farm Condo. Ass'n, 86 A.3d 354, 358 (R.I. 2014)

(quoting Abbatematteo v. State, 694 A.2d 738, 740 (R.I. 1997)). "Failure to join" such interest

persons "in the action warrants dismissal." Thompson v. Town Council of Town of Westerly,

487 A.2d 498, 500 (R.I. 1985).

Here, the State has failed to join all interested parties. These interested parties are the

unnamed third parties to whom the Complaint alleges the State could potentially be liable, (see

Complaint, ¶¶ 184, 188), and for which they seek indemnity and contribution from

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Commonwealth Engineers. These third parties are interested parties because a judgment

declaring the State to be purely derivatively or constructively liable to that third party, as

required for indemnity<sup>6</sup>, or declaring the State to be a joint tortfeasor with Commonwealth

Engineers, as required for contribution<sup>7</sup>, would impact the hypothetical third party's potential

rights to recovery from both the State and Commonwealth Engineers. Therefore, because the

State has failed to join all interested parties, the Court must dismiss their declaratory relief

causes of action.

B. The State Lacks the Requisite Standing to Bring the Declaratory Relief Claims

While the UDJA authorizes Rhode Island courts to issue "declaratory judgments," a

"declaratory-judgment action may not be used 'for the determination of abstract questions or

the rendering of advisory opinions." Sullivan v. Chafee, 703 A.2d 748, 751 (R.I. 1997)

(quoting Lamb v. Perry, 101 R.I. 538, 542 (1967)).

To obtain declaratory relief, the plaintiff must demonstrate that there is "an actual

justiciable controversy." Sullivan, 703 A.2d at 751. "For a claim to be justiciable, two

elemental components must be present: (1) a plaintiff with the requisite standing and (2) 'some

legal hypothesis which will entitle the plaintiff to real and articulable relief." N &M

Properties, LLC v. Town of West Warwick ex re. Moore, 964 A.2d 1141, 1145 (R.I. 2009)

(quoting Bowen v. Mollis, 945 A.2d 314, 316 (R.I. 2008)).

"The requisite standing to prosecute a claim exists when the plaintiff has alleged that

'the challenged action has caused him injury in fact, economic, or otherwise," (quoting Rhode

Island Ophthalmological Society v. Cannon, 113 R.I. 16, 22 (R.I. 1974)), that is, a "legally

<sup>6</sup> See Muldowney v. Weatherking Products, Inc., 509 A.2d 441, 445 (R.I. 1986).

<sup>7</sup> See R.I. Gen. Laws § 10-6-1 et seq.; Wilson v. Krasnoff, 560 A.2d 335, 339-40 (R.I. 1989).

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cognizable and protectable interest," that is "actual or imminent, not 'conjectural' or

'hypothetical.'" Bowen, 945 A.2d at 317. Lack of standing requires a court to dismiss the

claim. N & M Properties, LLC v. Town of West Warwick ex re. Moore, 964 A.2d 1141, 1146

(R.I. 2009) (concluding that "the motion justice properly dismissed its claim for lack of

standing").

Here, the State lacks standing to bring the declaratory relief claims because the alleged

injury is purely "conjectural" and "hypothetical," rather than "actual or imminent." The alleged

injury is "conjectural" and "hypothetical" because the Complaint fails to identify the third

parties potentially bringing a claim against the State or factual reasons why such a lawsuit is

likely. The Complaint rather simply says that "the State may be held liable to one or more

third parties." (Complaint, ¶¶ 184, 188). In other words, the State is alleging that it is *merely* 

possible that some third party could sue them for damages caused by Commonwealth

Engineer's actions, but this is insufficient to confer standing. Therefore, because the State

lacks standing, the Court must dismiss the declaratory relief claims.

C. The Complaint Fails to Allege a Factual Basis for Declaratory Relief

The Complaint also fails to sufficiently allege facts that would satisfy the elements for

both noncontractual indemnity and the contribution claims. As plead, the declaratory counts

do not give Commonwealth Engineers fair notice of the claims. See Bragg v. Warwick

Shoppers World, Inc., 102 R.I. 8, 11 (1967) (complaint is required to "give the defendant fair

notice of what the plaintiff's claim is and the ground upon which it rests.").

1. Noncontractual (or "Equitable") Indemnity

"To be entitled to indemnification," a plaintiff must prove (i) "that [they are] liable to

a third party," (ii) "the prospective indemnitors [] are liable to a third party," and (iii) "the

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obligation ought to be discharged by the indemnitors." <u>DiMase v. Fleet Nat. Bank</u>, 723 A.2d

765, 768 (R.I. 1999) (interpolations in original removed). "The theory underlying the concept

of equitable indemnity is that 'one who has been exposed to liability solely as the result of a

wrongful act of another should be able to recover from that party. If another person has been

compelled to pay damages that should have been paid by the wrongdoer, the latter becomes

liable to the former." Id. (quoting Muldowney v. Weatherking Products, Inc., 509 A.2d 441,

443 (R.I. 1986)).

In our case, the Complaint fails to allege a factual basis for equitable indemnity. The

Complaint fails to allege that facts showing that the State is liable to a third party, that

Commonwealth Engineers is liable to that third party, or that Commonwealth Engineers should

for equitable reasons be required to discharge the State's liability. Therefore, the Court must

dismiss this claim.

2. Contribution

The "Uniform Contribution Among Tortfeasors Act" (UCATA) establishes the right of

contribution under Rhode Island law, consistent with the traditional common law principles of

contribution among joint tortfeasors who are "jointly or severally liable for the same injury."

See R.I. Gen. Laws § 10-6-1 et seq.

The Supreme Court has explained the elements of contribution as follows:

"[W]e discern two requirements in order for parties to be joint tortfeasors under the act. First, the parties must be 'liable in tort.' The phrase 'liable in tort' has been construed to mean to have negligently contributed to another's injury

[citation omitted] Second, the statute refers to the same

<sup>8</sup> Rhode Island courts do not appear to recognize a concept called, "noncontractual indemnity." However, it also appears that "noncontractual indemnity" is another name for "equitable

indemnity," which Rhode Island courts do recognize as a legal concept. See CJS INDEMNITY §

34, n.1, n.3. Thus, this Motion will treat it as a claim for "equitable indemnity."

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injury. The same injury is caused by parties who engage in common wrongs. To constitute joint tortfeasors under the

act, both parties must have engaged in common wrongs. . . .

In determining whether an occurrence between two or more

parties is a common wrong, two important factors will be the

time at which each party acted or failed to act and whether a

party had the ability to guard against the negligence of the

other." Wilson v. Krasnoff, 560 A.2d 335, 339–40 (R.I.

1989).

In our case, the Complaint fails to allege a factual basis that would satisfy any of the

elements of contribution. There are no specific factual allegations that the State and

Commonwealth Engineers were both negligent to a specified third party and that this

negligence injured that third party. Additionally, there are no specific factual allegations of a

"common wrong" on the part of the State and Commonwealth Engineers to that third party. In

fact, the Complaint's allegations as to Commonwealth Engineers show that there cannot be a

"common wrong" between them and the State. This is because the Complaint never alleges

that the State assisted or in any way participated in Commonwealth Engineers' allegedly

negligent work. Therefore, the Court must dismiss this claim.

CONCLUSION

For all the reasons stated above, this court should grant Commonwealth Engineers' Motion

to Dismiss.

First, under the economic loss doctrine, Commonwealth Engineers did not owe a duty to

the State, because there was no contract between it and the State and because the State's losses

were purely economic. See Franklin Grove, 936 A.2d at 1278.

Second, the Complaint's three alleged wrongful acts by Commonwealth Engineers do not

state a plausible cause of action. The first two allegations (the 2019 and 2023 inspections) are

misplaced because Commonwealth Engineers did not conduct or assist in those inspections based

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on the inspection reports the Complaint incorporates by reference that "trump" the Complaint's

allegations. The third allegation (the 2021 Joint Venture Proposal) cannot support a cause of action

because there is no allegation that Commonwealth Engineers performed those services, was

contracted or subcontracted to perform those services, or that it agreed to perform those services.

Additionally, the Court must dismiss the Complaint's declaratory relief causes of action for

noncontractual indemnity and contribution because the State has failed to join the third parties as

"interested parties," because the Complaint's alleged injury-in-fact is purely "conjectural" and

"hypothetical," and because the Complaint fails to allege a factual basis for the noncontractual

indemnity and contribution claims.

In light of all of the above, Commonwealth Engineers respectfully requests that this Court

GRANT this Motion to Dismiss.

THE DEFENDANT, COMMONWEALTH ENGINEERS & CONSULTANTS, INC.,

By its Attorney,

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#### **CERTIFICATE OF SERVICE**

I, Susan M. Silva, hereby certify this 31 day of October, 2024, that the foregoing document was electronically filed and served electronically upon all parties on record.

Susan M. Silva, Esq.

Susad

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# EXHIBIT 1

Filed in Providence/Bristol County Superior Court

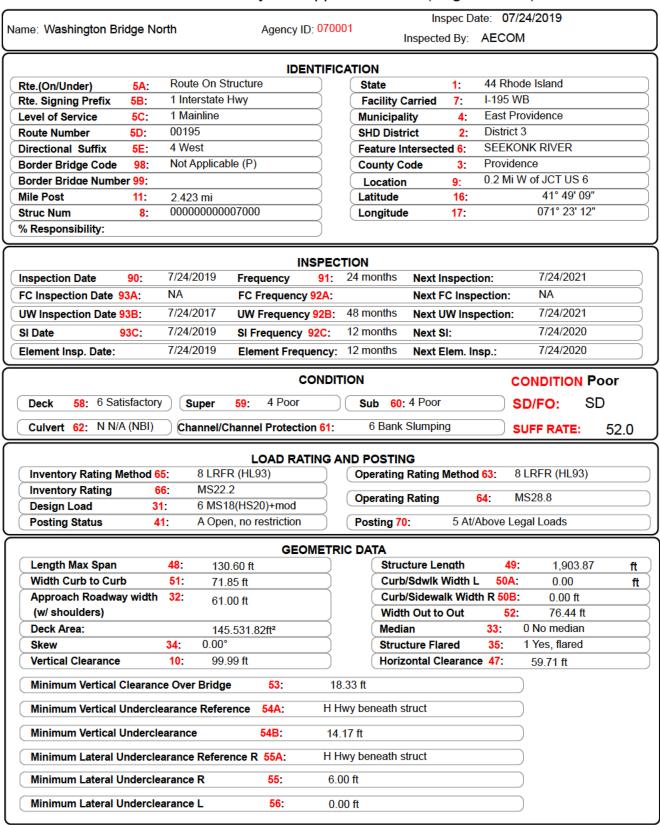
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#### Rhode Island Department of Transportation

## Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)



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Reviewer: Alexandra R.

## Rhode Island Department of Transportation

# **Bridge Inspection Report**

Structure Inventory and Appraisal Sheet (English Units)

Year Built	<b>27</b> : 1969	GE AND SERVICE  ADT 29: 76,700						
Type of Service on 4	12A: 1 Highway	Year Reconstructed 106: 1998						
Type of Service under	42B: 8 Hwy-waterway-RR							
Lanes on	<b>28A</b> : 5	Truck ADT 109: 10%						
Lanes under	28B: 8	Year of ADT 30: 2008						
		RE TYPE AND MATERIALS						
Number of Approach Spa	ans 46: 20	Number of Spans Main Unit 45: 1						
Wearing Surface	108A: 6 Bituminous	Main Span Material Design 43A: 3 Steel						
Membrane	108B: 2 Preformed Fabric	c 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								
Scour Critical 113:	3 SC - Unstable							
Scour Critical 113: Underclearance, Vertical		4 Tolerable						
	and Horizontal 69:	4 Tolerable  CLASSIFICATION						
	and Horizontal 69:	CLASSIFICATION Parallel Structure 101: Left of    bridge						
Underclearance, Vertical	and Horizontal 69:	CLASSIFICATION						
Underclearance, Vertical  Defense Highway 100:	and Horizontal 69:  C 1 On Interstate STRAHNE	CLASSIFICATION Parallel Structure 101: Left of    bridge						
Underclearance, Vertical  Defense Highway 100:  Direction of Traffic 102:	and Horizontal 69:  C 1 On Interstate STRAHNE 1 1-way traffic	CLASSIFICATION Parallel Structure 101: Left of    bridge Temporary Structure 103: Not Applicable (P)						
Underclearance, Vertical  Defense Highway 100:  Direction of Traffic 102:  Highway System 104:	and Horizontal 69:  C 1 On Interstate STRAHNE 1 1-way traffic 3 On free road	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate						
Defense Highway 100: Direction of Traffic 102: Highway System 104: Defense Hwy 110:	and Horizontal 69:  C 1 On Interstate STRAHNE 1 1-way traffic 3 On free road 1 On the NHS	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP						
Underclearance, Vertical  Defense Highway 100:  Direction of Traffic 102:  Highway System 104:  Defense Hwy 110:  Toll Facility 20:  Owner 22:	and Horizontal 69:  C 1 On Interstate STRAHNE 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNE 01 State Highway Agence	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS						
Defense Highway 100: Direction of Traffic 102: Highway System 104: Defense Hwy 110: Toll Facility 20:	and Horizontal 69:  C 1 On Interstate STRAHNE 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNE 01 State Highway Agence	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency						
Underclearance, Vertical  Defense Highway 100:  Direction of Traffic 102:  Highway System 104:  Defense Hwy 110:  Toll Facility 20:  Owner 22:	and Horizontal 69:  C 1 On Interstate STRAHNE 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNE 01 State Highway Agence PROPO 1: \$29,571,332	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS						
Underclearance, Vertical  Defense Highway 100:  Direction of Traffic 102:  Highway System 104:  Defense Hwy 110:  Toll Facility 20:  Owner 22:  Bridge Cost 94	and Horizontal 69:  C 1 On Interstate STRAHNET 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNET 01 State Highway Agence PROPO 1: \$29,571,332 5: \$2,957,133	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS  Type of Work 75: 35 Rehabilitate-gen.						
Underclearance, Vertical  Defense Highway 100: Direction of Traffic 102: Highway System 104: Defense Hwy 110: Toll Facility 20: Owner 22:  Bridge Cost 94 Roadway Cost 95	and Horizontal 69:  C 1 On Interstate STRAHNET 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNET 01 State Highway Agence PROPO 1: \$29,571,332 1: \$44,356,998	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS  Type of Work 75: 35 Rehabilitate-gen.  Length of Improvement 76: 1,903.87						
Underclearance, Vertical  Defense Highway 100: Direction of Traffic 102: Highway System 104: Defense Hwy 110: Toll Facility 20: Owner 22:  Bridge Cost 94 Roadway Cost 95 Total Cost 96 Year of Cost Estimate 9	and Horizontal 69:  C 1 On Interstate STRAHNET 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNET 01 State Highway Agence PROPO 1: \$29,571,332 3: \$2,957,133 4: \$44,356,998 7: 2007	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS  Type of Work 75: 35 Rehabilitate-gen.  Length of Improvement 76: 1,903.87  Future ADT 114: 92,040  Year of Future ADT 115: 2036						
Underclearance, Vertical  Defense Highway 100: Direction of Traffic 102: Highway System 104: Defense Hwy 110: Toll Facility 20: Owner 22:  Bridge Cost 94 Roadway Cost 95 Total Cost 96 Year of Cost Estimate 9	and Horizontal 69:  C 1 On Interstate STRAHNET 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNET 01 State Highway Agence PROPO 1: \$29,571,332 5: \$2,957,133 6: \$44,356,998 7: 2007	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS  Type of Work 75: 35 Rehabilitate-gen.  Length of Improvement 76: 1,903.87  Future ADT 114: 92,040  Year of Future ADT 115: 2036						
Underclearance, Vertical  Defense Highway 100: Direction of Traffic 102: Highway System 104: Defense Hwy 110: Toll Facility 20: Owner 22:  Bridge Cost 94 Roadway Cost 95 Total Cost 96 Year of Cost Estimate 9	and Horizontal 69:  1 On Interstate STRAHNET 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate STRAHNET 01 State Highway Agence PROPO 1: \$29,571,332 5: \$2,957,133 6: \$44,356,998 7: 2007	CLASSIFICATION  Parallel Structure 101: Left of    bridge  Temporary Structure 103: Not Applicable (P)  NBIS Length 112: Long Enough  Functional Class 26: 11 Urban Interstate  Historical Significance 37: 5 Not eligible for NRHP  Cy Custodian 21: 01 State Highway Agency  DSED IMPROVEMENTS  Type of Work 75: 35 Rehabilitate-gen.  Length of Improvement 76: 1,903.87  Future ADT 114: 92,040  Year of Future ADT 115: 2036  IAVIGATION DATA  Horizontal Clearance 40: 99.7 ft						

Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R.

## Rhode Island Department of Transportation

# **Bridge Inspection Report**

# Structure Inventory and Appraisal Sheet (English Units)

0	12/3	Re Concrete Deck	142,889.00	94%	134,317.00	5%	7,144.00	1%	1,428.00	0%	0.00
<u> </u>	510/3	Wearing Surfaces	142,889.00	94%	134,317.00	5%	7,144.00	1%	1,428.00	0%	0.00
	3210/3	Del/Spall/Patch/Pot(Wear Surf)	4,286.00	0%	0.00	83%	3,572.00	17%	714.00	0%	0.00
	3220/3	Crack (Wearing Surface)	4,286.00	0%	0.00	83%	3,572.00	17%	714.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
	1090/3	Exposed Rebar	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
	1130/3	Cracking (RC and Other)	2,143.00	0%	0.00	83%	1,786.00	17%	357.00	0%	0.00
0	16/3	Re Conc Top Flange	7,336.00	81%	5,911.00	16%	1,150.00	4%	275.00	0%	0.00
	510/3	Wearing Surfaces	7,336.00	100%	7,336.00	0%	0.00	0%	0.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	200.00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
	1090/3	Exposed Rebar	25.00	0%	0.00	0%	0.00	100%	25.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	1,000.00	0%	0.00	75%	750.00	25%	250.00	0%	0.00
	1130/3	Cracking (RC and Other)	200.00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
0	105/3	Re Clsd Box Girder	922.00	8%	78.00	55%	505.00	37%	339.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	100.00	0%	0.00	80%	80.00	20%	20.00	0%	0.00
	1090/3	Exposed Rebar	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	244.00	0%	0.00	50%	122.00	50%	122.00	0%	0.00
	1130/3	Cracking (RC and Other)	495.00	0%	0.00	61%	303.00	39%	192.00	0%	0.00
0	107/3	Steel Opn Girder/Beam	1,320.00	60%	787.00	38%	496.00	3%	37.00	0%	0.00
	515/3	Steel Protective Coating	19,385.00	38%	7,350.00	32%	6,300.00	30%	5,735.00	0%	0.00
	3410/3	Chalk(Steel Protect Coatings)	6,300.00	0%	0.00	100%	6,300.00	0%	0.00	0%	0.00
	3420/3	Peel/Bub/Crack(Stl Protect Coat)	5,735.00	0%	0.00	0%	0.00	100%	5,735.00	0%	0.00
	1000/3	Corrosion	390.00	0%	0.00	91%	353.00	10%	37.00	0%	0.00
	1900/3	Distortion	143.00	0%	0.00	100%	143.00	0%	0.00	0%	0.00
0	109/3	Pre Opn Conc Girder/Beam	14,543.00	81%	11,733.00	9%	1,268.00	10%	1,407.00	1%	135.00
	521/3	Conc Prot Coating	5,000.00	85%	4,250.00	0%	0.00	8%	375.00	8%	375.00
	3510/3	Wear (Concrete Protect Coat)	750.00	0%	0.00	0%	0.00	50%	375.00	50%	375.00
	1080/3	Delamination/Spall/Patched Area	1,150.00	0%	0.00	78%	900.00	22%	250.00	0%	0.00
	1090/3	Exposed Rebar	175.00	0%	0.00	0%	0.00	29%	50.00	71%	125.00
	1100/3	Exposed Prestressing	25.00	0%	0.00	0%	0.00	60%	15.00	40%	10.00
	1110/3	Cracking (PSC)	727.00	0%	0.00	0%	0.00	100%	727.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	730.00	0%	0.00	50%	365.00	50%	365.00	0%	0.00
	7000/3	Damage	3.00	0%	0.00	100%	3.00	0%	0.00	0%	0.00
	8368/3	Graffiti	200.00	100%	200.00	0%	0.00	0%	0.00	0%	0.00
0	110/3	Re Conc Opn Girder/Beam	2,880.00	33%	954.00	41%	1,188.00	24%	688.00	2%	50.00
	521/3	Conc Prot Coating	14,800.00	100%	14,800.00	0%	0.00	0%	0.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	800.00	0%	0.00	75%	600.00	25%	200.00	0%	0.00
	1090/3	Exposed Rebar	100.00	0%	0.00	0%	0.00	50%	50.00	50%	50.00
	1120/3	Efflorescence/Rust Staining	450.00	0%	0.00	67%	300.00	33%	150.00	0%	0.00
	1130/3	Cracking (RC and Other)	576.00	0%	0.00	50%	288.00	50%	288.00	0%	0.00
0	205/3	Re Conc Column	92.00	43%	40.00	22%	20.00	35%	32.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	42.00	0%	0.00	48%	20.00	52%	22.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
	1130/3	Cracking (RC and Other)	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
	8368/3	Graffiti	300.00	0%	0.00	100%	300.00	0%	0.00	0%	0.00
0	210/3	Re Conc Pier Wall	1,151.00	58%	666.00	25%	290.00	15%	172.00	2%	23.00
	521/3	Conc Prot Coating	25,200.00	100%	25,200.00	0%	0.00	0%	0.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	175.00	0%	0.00	43%	75.00	44%	77.00	13%	23.00
	1120/3	Efflorescence/Rust Staining	80.00	0%	0.00	50%	40.00	50%	40.00	0%	0.00
	1130/3	Cracking (RC and Other)	115.00	0%	0.00	52%	60.00	48%	55.00	0%	0.00
	6000/3	Scour	115.00	0%	0.00	100%	115.00	0%	0.00	0%	0.00
	8368/3	Graffiti	400.00	0%	0.00	100%	400.00	0%	0.00	0%	0.00
	215/3	Re Conc Abutment	230.00	34%	78.00	19%	44.00	47%	108.00	0%	0.00
0	521/3	Conc Prot Coating	2,300.00	100%	2,300.00	0%	0.00	0%	0.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	103.00	0%	0.00	28%	29.00	72%	74.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	30.00	0%	0.00	50%	15.00	50%	15.00	0%	0.00
	1120/3	_moresecrice/rust stairing	30.00	U //U	0.00	0070	10.00	5570	10.00	U //U	0.00
	1130/3	Cracking (RC and Other)	19.00	0%	0.00	0%	0.00	100%	19.00	0%	0.00

CN\_Ver\_Inspection\_SIA\_English

Fri 11/01/2019 9:57:20

Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R.

## Rhode Island Department of Transportation

# **Bridge Inspection Report**

## Structure Inventory and Appraisal Sheet (English Units)

	8368/3	Graffiti	200.00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
0	220/3	Re Conc Pile Cap/Ftg	1,151.00	100%	1,150.00	0%	1.00	0%	0.00	0%	0.00
	1130/3	Cracking (RC and Other)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
	234/3	Re Conc Pier Cap	388.00	13%	52.00	81%	313.00	6%	23.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	308.00	0%	0.00	95%	293.00	5%	15.00	0%	0.00
	1090/3	Exposed Rebar		0%		100%		0%		0%	
		·	1.00		0.00		1.00		0.00		0.00
	1120/3	Efflorescence/Rust Staining	15.00	0%	0.00	47%	7.00	53%	8.00	0%	0.00
	1130/3	Cracking (RC and Other)	12.00	0%	0.00	100%	12.00	0%	0.00	0%	0.00
0	300/3	Strip Seal Exp Joint	93.00	0%	0.00	95%	88.00	5%	5.00	0%	0.00
	2310/3	Leakage	5.00	0%	0.00	100%	5.00	0%	0.00	0%	0.00
	2330/3	Seal Damage	10.00	0%	0.00	100%	10.00	0%	0.00	0%	0.00
	2350/3	Debris Impaction	5.00	0%	0.00	100%	5.00	0%	0.00	0%	0.00
	2370/3	Metal Deterioration or Damage	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
0	301/3	Pourable Joint Seal	1,151.00	44%	507.00	47%	544.00	7%	85.00	1%	15.00
	2310/3	Leakage	344.00	0%	0.00	100%	344.00	0%	0.00	0%	0.00
	2320/3	Seal Adhesion	300.00	0%	0.00	67%	200.00	28%	85.00	5%	15.00
0	310/3	Elastomeric Bearing	401.00	34%	136.00	47%	190.00	19%	75.00	0%	0.00
_ "	2220/3	Alignment	4.00	0%	0.00	0%	0.00	100%	4.00	0%	0.00
	2230/3	Bulging, Splitting or Tearing	200.00	0%	0.00	75%	150.00	25%	50.00	0%	0.00
	2240/3	Loss of Bearing Area	61.00	0%	0.00	66%	40.00	34%	21.00	0%	0.00
_	311/3	,									
0	515/3	Moveable Bearing	11.00 132.00	<b>0%</b> 0%	0.00	<b>64%</b> 0%	<b>7.00</b> 0.00	36% 33%	<b>4.00</b> 44.00	<b>0%</b> 67%	<b>0.00</b> 88.00
		Steel Protective Coating									
	3420/3	Peel/Bub/Crack(Stl Protect Coat)	132.00	0%	0.00	0%	0.00	33%	44.00	67%	88.00
	1000/3	Corrosion	9.00	0%	0.00	78%	7.00	22%	2.00	0%	0.00
	2220/3	Alignment	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
	2240/3	Loss of Bearing Area	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
0	313/3	Fixed Bearing	11.00	0%	0.00	73%	8.00	27%	3.00	0%	0.00
	515/3	Steel Protective Coating	110.00	0%	0.00	0%	0.00	60%	66.00	40%	44.00
	3420/3	Peel/Bub/Crack(Stl Protect Coat)	110.00	0%	0.00	0%	0.00	60%	66.00	40%	44.00
	1000/3	Corrosion	11.00	0%	0.00	73%	8.00	27%	3.00	0%	0.00
0	321/3	Re Conc Approach Slab	2,352.00	0%	0.00	100%	2,352.00	0%	0.00	0%	0.00
	510/3	Wearing Surfaces	2,352.00	57%	1,352.00	21%	500.00	21%	500.00	0%	0.00
	3220/3	Crack (Wearing Surface)	2,352.00	57%	1,352.00	21%	500.00	21%	500.00	0%	0.00
						440/	411.00	0%	1.00	0%	0.00
1 ^	331/3	Re Conc Bridge Railing	3.808.00	89%	3.396.00	11%					
0	331/3 1080/3	Re Conc Bridge Railing  Delamination/Spall/Patched Area	3,808.00 10.00	89% 0%	3,396.00 0.00	11% 100%	10.00				0.00
0	1080/3	Delamination/Spall/Patched Area	10.00	0%	0.00	100%	10.00	0%	0.00	0%	0.00
0	1080/3 1120/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining	10.00	0%	0.00	100% 0%	0.00	0% 100%	0.00 1.00	0% 0%	0.00
0	1080/3 1120/3 1130/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)	10.00 1.00 351.00	0% 0% 0%	0.00 0.00 0.00	100% 0% 100%	0.00 351.00	0% 100% 0%	0.00 1.00 0.00	0% 0% 0%	0.00
0	1080/3 1120/3 1130/3 7000/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage	10.00 1.00 351.00 50.00	0% 0% 0% 0%	0.00 0.00 0.00 0.00	100% 0% 100% 100%	0.00 351.00 50.00	0% 100% 0% 0%	0.00 1.00 0.00 0.00	0% 0% 0% 0%	0.00 0.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper	10.00 1.00 351.00 50.00 27.00	0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11%	0.00 351.00 50.00 3.00	0% 100% 0% 0% 74%	0.00 1.00 0.00 0.00 20.00	0% 0% 0% 0% 15%	0.00 0.00 0.00 4.00
	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage  Scupper  Corrosion	10.00 1.00 351.00 50.00 27.00 4.00	0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0%	0.00 351.00 50.00 3.00 0.00	0% 100% 0% 0% 74% 0%	0.00 1.00 0.00 0.00 20.00	0% 0% 0% 0% 15%	0.00 0.00 0.00 4.00 4.00
	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage Scupper Corrosion Steel Opn Girder/Beam ENDS	10.00 1.00 351.00 50.00 27.00 4.00	0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0%	0.00 351.00 50.00 3.00 0.00	0% 100% 0% 0% 74% 0%	0.00 1.00 0.00 0.00 20.00 0.00	0% 0% 0% 0% 15% 100%	0.00 0.00 0.00 4.00 4.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage  Scupper  Corrosion	10.00 1.00 351.00 50.00 27.00 4.00	0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0%	0.00 351.00 50.00 3.00 0.00	0% 100% 0% 0% 74% 0%	0.00 1.00 0.00 0.00 20.00	0% 0% 0% 0% 15%	0.00 0.00 0.00 4.00 4.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage Scupper Corrosion Steel Opn Girder/Beam ENDS	10.00 1.00 351.00 50.00 27.00 4.00	0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0%	0.00 351.00 50.00 3.00 0.00	0% 100% 0% 0% 74% 0% 100%	0.00 1.00 0.00 0.00 20.00 0.00 110.00 615.00	0% 0% 0% 0% 15% 100% 0%	0.00 0.00 0.00 4.00 4.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating	10.00 1.00 351.00 50.00 27.00 4.00 110.00	0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0% 0%	0.00 351.00 50.00 3.00 0.00 0.00	0% 100% 0% 0% 74% 0% 100%	0.00 1.00 0.00 0.00 20.00 0.00 110.00 615.00	0% 0% 0% 0% 15% 100% 0%	0.00 0.00 0.00 4.00 4.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat)	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00	0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0% 0% 0%	0.00 351.00 50.00 3.00 0.00 0.00 0.00	0% 100% 0% 0% 74% 0% 100% 38%	0.00 1.00 0.00 0.00 20.00 0.00 110.00 615.00	0% 0% 0% 0% 15% 100% 0% 62%	0.00 0.00 0.00 4.00 4.00 0.00 1,000.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat)	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 175.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 100% 11% 0% 0% 0%	0.00 351.00 50.00 3.00 0.00 0.00 0.00 0.00	0% 100% 0% 0% 74% 0% 100% 38% 38%	0.00 1.00 0.00 0.00 20.00 0.00 110.00 615.00 25.00	0% 0% 0% 0% 15% 100% 62% 62%	0.00 0.00 0.00 4.00 4.00 0.00 1,000.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 100% 11% 0% 0% 0% 0% 100%	0.00 351.00 50.00 3.00 0.00 0.00 0.00 0.00 44.00	0% 100% 0% 0% 74% 0% 100% 38% 38% 0%	0.00 1.00 0.00 0.00 20.00 0.00 110.00 615.00 25.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0%	0.00 0.00 0.00 4.00 4.00 1,000.00 1,000.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 175.00 44.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 100% 11% 0% 0% 0% 110% 77%	0.00 351.00 50.00 3.00 0.00 0.00 0.00 0.00 44.00 85.00	0% 100% 0% 0% 74% 0% 100% 38% 38% 14% 0%	0.00 1.00 0.00 0.00 20.00 0.00 110.00 615.00 25.00 0.00 25.00	0% 0% 0% 0% 15% 100% 62% 0% 0%	0.00 0.00 0.00 4.00 4.00 1,000.00 1,000.00 0.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 175.00 44.00 110.00 21.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 100% 11% 0% 0% 0% 0% 100% 77% 100%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00	0% 100% 0% 0% 74% 0% 100% 38% 38% 14% 0% 23%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 0% 0% 0%	0.00 0.00 4.00 4.00 1,000.00 1,000.00 0.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0% 0% 0% 100% 100	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 80.00	0% 100% 0% 0% 74% 0% 100% 38% 38% 0% 0% 23% 0%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 0.00 46.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0%	0.00 0.00 4.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00 80.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100% 45%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100% 0% 100% 100% 11% 0% 0% 0% 110% 0% 100% 100% 35% 88%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 80.00	0% 100% 0% 0% 74% 0% 100% 38% 38% 0% 0% 23% 0% 0% 13%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 0.00 46.00 10.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0%	0.00 0.00 4.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.00 0.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 8368/3 8218/3 1080/3 1120/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00 80.00 23.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 100% 11% 0% 0% 0% 11% 0% 0% 35% 88% 43%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 80.00 70.00	0% 100% 0% 0% 74% 0% 100% 38% 38% 0% 0% 23% 0% 0% 13% 57%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 0.00 46.00 110.00 13.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.0
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00 80.00 23.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 100% 11% 0% 0% 0% 100% 100	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 70.00 10.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 0.00 46.00 10.00 13.00 23.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1.000.00 1.000.00 0.00
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3 8305/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00 80.00 23.00 23.00 1,438.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 0% 0% 100% 77% 100% 0% 35% 88% 43% 0% 31%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 80.00 70.00 10.00 0.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 0.00 46.00 10.00 13.00 23.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.0
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3 8305/3 2310/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material Leakage	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00 80.00 23.00 23.00 1,438.00 430.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 0% 0% 100% 10	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 70.00 10.00 430.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100% 0%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 10.00 13.00 23.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 0.00 0.00 0.00 0.00 0.00 0.
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3 8305/3 2310/3 2340/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material Leakage Seal Cracking	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 175.00 44.00 110.00 21.00 100.00 230.00 80.00 23.00 23.00 1,438.00 430.00 21.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 86% 100% 77% 100% 0% 88% 43% 0% 31% 100%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 150.00 44.00 85.00 21.00 0.00 70.00 10.00 451.00 430.00 21.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100% 0% 0%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 10.00 13.00 23.00 0.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 0.00 0.00 0.00 0.00 0.00 0.
0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3 8305/3 2310/3 2340/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage  Scupper Corrosion  Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material Leakage Seal Cracking Guardrall, Vehicular	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 20.00 230.00 80.00 23.00 23.00 430.00 430.00 21.00 700.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 0% 0% 100% 10	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 70.00 10.00 430.00 430.00 21.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100% 0% 0%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 10.00 13.00 23.00 0.00 0.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.0
0 0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3 8305/3 2310/3 2340/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material Leakage Seal Cracking	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 175.00 44.00 110.00 21.00 100.00 230.00 80.00 23.00 23.00 1,438.00 430.00 21.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 86% 100% 77% 100% 0% 88% 43% 0% 31% 100%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 70.00 10.00 430.00 21.00 0.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100% 0% 0%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 10.00 13.00 23.00 0.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.0
0 0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 1130/3 8305/3 2310/3 2340/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage  Scupper Corrosion  Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material Leakage Seal Cracking Guardrall, Vehicular	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 20.00 230.00 80.00 23.00 23.00 430.00 430.00 21.00 700.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 0% 0% 100% 10	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 70.00 10.00 430.00 430.00 21.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100% 0% 0%	0.00 1.00 0.00 0.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 10.00 13.00 23.00 0.00 0.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.0
0 0	1080/3 1120/3 1130/3 7000/3 8060/3 1000/3 8107/1 515/1 3420/1 8213/3 1080/3 1120/3 1130/3 8368/3 8218/3 1080/3 1120/3 2310/3 2340/3 8335/3 515/3	Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other)  Damage Scupper Corrosion Steel Opn Girder/Beam ENDS Steel Protective Coating Peel/Bub/Crack(Stl Protect Coat) R/C Return Wall Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Graffiti Backwall, All Types Delamination/Spall/Patched Area Efflorescence/Rust Staining Cracking (RC and Other) Asphaltic Joint Material Leakage Seal Cracking Guardrail, Vehicular Steel Protective Coating	10.00 1.00 351.00 50.00 27.00 4.00 110.00 1,615.00 1,615.00 44.00 110.00 21.00 100.00 230.00 30.00 430.00 21.00 430.00 21.00 700.00 3,150.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100% 0% 100% 11% 0% 0% 0% 0% 0% 86% 100% 77% 100% 0% 35% 88% 43% 0% 100% 100% 100%	0.00 351.00 50.00 0.00 0.00 0.00 0.00 44.00 85.00 21.00 0.00 70.00 10.00 430.00 21.00 0.00	0% 100% 0% 0% 0% 100% 38% 38% 14% 0% 23% 0% 13% 57% 100% 0% 0% 0% 43%	0.00 1.00 0.00 0.00 110.00 0.00 110.00 615.00 615.00 0.00 25.00 0.00 10.00 13.00 23.00 0.00 0.00 0.00 0.00 0.00 0.00	0% 0% 0% 0% 15% 100% 62% 62% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0.00 0.00 0.00 4.00 1,000.00 1,000.00 0.00 0.00 0.00 0.0

CN\_Ver\_Inspection\_SIA\_English

Fri 11/01/2019 9:57:20

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R.

#### Rhode Island Department of Transportation

# **Bridge Inspection Report**

# Structure Inventory and Appraisal Sheet (English Units) Damage | 40.00 | 0% | 0.00 | 100% | 40.00 | 0% |

7000/3	Damage	40.00	0%	0.00	100%	40.00	0%	0.00	0%	0.00
8336/3	Conc Bridge Parapet	700.00	50%	350.00	46%	320.00	4%	30.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
1090/3	Exposed Rebar	100.00	0%	0.00	70%	70.00	30%	30.00	0%	0.00
1130/3	Cracking (RC and Other)	150.00	0%	0.00	100%	150.00	0%	0.00	0%	0.00
8366/3	Rip Rap	1,000.00	94%	940.00	3%	30.00	3%	30.00	0%	0.00
4000/3	Settlement	60.00	0%	0.00	50%	30.00	50%	30.00	0%	0.00
8367/3	Slope Blocks	700.00	85%	595.00	0%	0.00	15%	105.00	0%	0.00
8370/3	Steel Diaphragms	70.00	19%	13.00	51%	36.00	24%	17.00	6%	4.00
515/3	Steel Protective Coating	1,800.00	21%	378.00	63%	1,125.00	12%	207.00	5%	90.00
3410/3	Chalk(Steel Protect Coatings)	900.00	0%	0.00	100%	900.00	0%	0.00	0%	0.00
3420/3	Peel/Bub/Crack(Stl Protect Coat)	522.00	0%	0.00	43%	225.00	40%	207.00	17%	90.00
1000/3	Corrosion	55.00	0%	0.00	64%	35.00	29%	16.00	7%	4.00
1020/3	Connection	2.00	0%	0.00	50%	1.00	50%	1.00	0%	0.00
8371/3	Conc Diaphragms	221.00	16%	35.00	31%	68.00	51%	113.00	2%	5.00
1080/3	Delamination/Spall/Patched Area	52.00	0%	0.00	0%	0.00	100%	52.00	0%	0.00
1090/3	Exposed Rebar	12.00	0%	0.00	50%	6.00	8%	1.00	42%	5.00
1120/3	Efflorescence/Rust Staining	11.00	0%	0.00	55%	6.00	45%	5.00	0%	0.00
1130/3	Cracking (RC and Other)	111.00	0%	0.00	50%	56.00	50%	55.00	0%	0.00
8398/1	Curb/sidewalks - Con	700.00	0%	0.00	100%	700.00	0%	0.00	0%	0.00
1080/1	Delamination/Spall/Patched Area	698.00	0%	0.00	100%	698.00	0%	0.00	0%	0.00
1120/1	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/1	Cracking (RC and Other)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
	3336/3 1080/3 1090/3 1130/3 3366/3 4000/3 3370/3 515/3 3410/3 1000/3 1020/3 3371/3 1080/3 1120/3 1130/3 3398/1 1080/1 1120/1	3336/3   Conc Bridge Parapet	1080/3	3336/3   Conc Bridge Parapet   700.00   50%	3336/3   Conc Bridge Parapet   700.00   50%   350.00	3336/3   Conc Bridge Parapet   700.00   50%   350.00   46%	3336/3   Conc Bridge Parapet   700.00   50%   350.00   46%   320.00	3336/3   Conc Bridge Parapet   700.00   50%   350.00   46%   320.00   4%	336/3   Conc Bridge Parapet   700.00   50%   350.00   46%   320.00   4%   30.00	336/3   Conc Bridge Parapet   700.00   50%   350.00   46%   320.00   4%   30.00   0%   1080/3   Delamination/Spali/Patched Area   100.00   0%   0.00   100%   100.00   0%   0.00   0%   1130/3   Exposed Rebar   100.00   0%   0.00   100%   150.00   0%   0.00

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#### Rhode Island Department of Transportation

#### Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
12	Re Concrete Deck	3	07/24/2019	142,889.00	sq.ft	134,317.00	7,144.00	1,428.00	0.00

There is a reinforced concrete deck in Span #1 through #18.

The top of the deck has a bituminous concrete wearing surface/overlay that was in varying stages of repair during the inspection (Photos 1-5, 42-49).

The underside of the deck at the deck joints was in varying stages of re-construction during the inspection. Formwork remains in place throughout the bridge (Photos 26-36) and the seismic restrainer assemblies at the deck joints in Spans #1 though#6 and #8 through #14 typically have the restrainer rod removed (Photo 97).

The underside of the deck has areas of exposed rebar chairs throughout, areas of rust staining and efflorescence, random hairline cracking, random areas of damp concrete, random hollow areas and isolated spalls. The areas immediately surrounding drain pipes have heavy rust staining and efflorescence with intermittent hollow areas. The overhangs exhibit typical hairline transverse cracks with efflorescence and stalactites. See photos 92-105 and the attached file "070001 Elem 12 Defect Table.pdf" for further details.

	510	Wearing Surfaces	3	07/24/2019	142,889.00	sq.ft	134,317.00	7,144.00	1,428.00	0.00	
		The bituminous construction limits, cracks, scattered projection in the construction of the construction o	minor to atches an	moderate while depressed p	neel line ruttir	ng, rando		nd unsealed	longitudinal and	transverse	
_		3210 Del/Spall/Patch/Pot(We	ar Surf) 3	07/24/20	19 4,286	00 \$	sq.ft 0.00	3,572	.00 714.00	0.00	
		. There		al raveling or o	•	,			atches in the wea e pavement along	·	
_		3220 Crack (Wearing Surface	9) 3	07/24/20	19 4,286	.00	sq.ft 0.00	3,572	.00 714.00	0.00	
		the go		•	-		•		ulders and in transverse cracks	adjacent to	
	1080	Delamination/Spall/Patched Area	3	07/24/2019	2,143.00	sq.ft	0.00	1,786.00	357.00	0.00	
		See photos 92-105 ar	nd the attac	ched file "070001	l Elem 12 Defec	t Table.pd	f" for further de	etails.			
	1090	Exposed Rebar	3	07/24/2019	2,143.00	sq.ft	0.00	1,786.00	357.00	0.00	
		See photos 92-105 ar	nd the attac	ched file "070001	l Elem 12 Defec	t Table.pd	f" for further de	etails.			
	1120	Efflorescence/Rust Staining	3	07/24/2019	2,143.00	sq.ft	0.00	1,786.00	357.00	0.00	
		See photos 92-105 ar	nd the attac	ched file "070001	l Elem 12 Defec	t Table.pd	f" for further de	etails.			
	1130	Cracking (RC and Other)	3	07/24/2019	2,143.00	sq.ft	0.00	1,786.00	357.00	0.00	
		See photos 92-105 and the attached file "070001 Elem 12 Defect Table.pdf" for further details.									
LEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
16		Re Conc Top Flange	3	07/24/2019	7,336.00	sq.ft	5,911.00	1,150.00	275.00	0.00	

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## **Bridge Inspection Report**

## Structure Inventory and Appraisal Sheet (English Units)

This element defines the top flanges of the reinforced concrete box girders in Spans #1R, #2R, #3R and #5 of the Gano Street off-ramp, which was closed at the time of the inspection (Photos 7, 53-54).

The top of the top flanges has a new bituminous concrete wearing surface/overlay which was not striped at the time of the inspection (Photos 6-7, 50-52).

The undersides of the top flanges exhibit typical transverse hairline cracks up to full width with efflorescence and rust, scattered areas of heavy map cracks with efflorescence, isolated hollow areas and spalls and ongoing repairs with form work left in place. See photos 182, 183, 186-189, 191 and the attached file "070001 Elem 16 Defect Table.pdf" for further details.

	510	Wearin	g Surfaces		3	07/24/2019	7,336.00	)	sq.ft	7	,336.00		0.00	0.00	)	0.0	0
			The new 2).	bituminous	concr	ete wearing	surface/overlay	was	not s	striped	at th	ne time	of the	inspection	(Photos	6-7,	50-5
	1080	Delami	nation/Spall/Pat	ched Area	3	07/24/2019	200.00		sq.ft		0.00		200.00	0.00	)	0.0	0
			See photos	182, 183,	186-189	9, 191 and the	attached file "07	'0001	Elem 1	6 Defe	ct Tab	le.pdf" fo	or further	details.			
	1090	Expose	d Rebar		3	07/24/2019	25.00		sq.ft		0.00		0.00	25.0	0	0.0	0
			See photos	182, 183,	186-189	9, 191 and the	attached file "07	'0001	Elem 1	6 Defe	ct Tab	le.pdf" fo	or further	details.			
	1120	Efflores	cence/Rust Sta	ining	3	07/24/2019	1,000.00	)	sq.ft		0.00		750.00	250.0	00	0.0	0
			See photos	182, 183,	186-189	9, 191 and the	attached file "07	'0001	Elem 1	6 Defe	ct Tab	le.pdf" fo	or further	details.			
	1130	Crackir	g (RC and Othe	er)	3	07/24/2019	200.00		sq.ft		0.00		200.00	0.00	)	0.0	0
			See photos	182, 183,	186-189	9, 191 and the	attached file "07	'0001	Elem 1	6 Defe	ct Tab	le.pdf" fo	or further	details.			
ELEM NBR		EL	EMENT NAME		ENV	INSP. DATE	QUANT	ITY	UNITS		QTY CS 1		QTY CS 2	QTY CS:		QT CS	
405		- A		4	2	07/04/0040	022.00			$\neg$	70.00		E0E 00	220.0		0.00	

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#### **Bridge Inspection Report**

#### Structure Inventory and Appraisal Sheet (English Units)

There are reinforced concrete three-cell box girders in Spans #1R, #2R, #3R and Span #5 which carry the Gano Street off-ramp. The box girder cells are lettered 'A' through 'C' from south to north to maintain the same orientation as the main bridge structure. Span bays are numbered 1 through 3 from west to east. See the attached file "070001 Gano Street Ramp Plan & Section.pdf" in the general info folder for clarification.

There are ongoing repairs on the interior of the box girders with scattered construction debris throughout and remaining formwork in place (Photos 182, 189, 191-193). There are several locations of ponding water up to 18" deep inside the box girders (Photos 189-192). RIDOT was informed about this issue on 7/11/19 and a work item has been added to BrM. The seismic restrainer assemblies and cables at Pier #2R exhibit typical rust with light corrosion (Photos 183, 191).

The interior webs exhibit typical full height vertical/diagonal hairline cracks, both sealed and unsealed (Photos 184-185). There are numerous gauges in place to monitor the movement of these cracks and at the time of inspection no movement was detected. See the attached file "070001 Elem 105 Defect 1130 Table.pdf" for further details.

The interior faces of the bottom flanges exhibit numerous repair patches and up to 2'-0" deep accumulation of construction debris throughout (Photos 183, 189, 191). There is typical ponding water up to 18" deep at Piers #1R and #2R (Photos 189-192). See the attached file "070001 Elem 105 Defect Table.pdf" for further details of scattered minor defects and notes.

The undersides of the bottom flanges have random repair patches, scattered transverse hairline cracks with efflorescence and rust staining and isolated hollow areas and spalls. See photos 37-41, 175-180 and the attached file "070001 Elem 105 Underside Sketches.pdf" for further details.

	1080	Delami	nation/Spall/Pate	ched Area	3	07/24/20	019	100.00	ft	0.00		80.00	20.00		(	0.00
								files "07000		Defect	1130	Table .pdf",	"070001	Elem	105	Defect
	1090	Expose	d Rebar		3	07/24/20		5.00	ft	0.00		0.00	5.00		(	0.00
			•	,				files "07000 hes.pdf" for fu		Defect	1130	Table .pdf",	"070001	Elem	105	Defect
	1120	Efflores	scence/Rust Stai	ining	3	07/24/20	)19	244.00	ft	0.00		122.00	122.00	)	(	0.00
			•	,				files "07000 hes.pdf" for fu		Defect	1130	Table .pdf",	"070001	Elem	105	Defect
	1130	Crackir	ig (RC and Othe	r)	3	07/24/20	)19	495.00	ft	0.00		303.00	192.00	)	(	0.00
			•	,				files "07000 nes.pdf" for fu		Defect	1130	Table .pdf",	"070001	Elem	105	Defect
ELEM NBR		EL	EMENT NAME		ENV	INSP. DAT	ΓE	QUANTITY	UNITS	QTY CS 1		QTY CS 2	QTY CS 3			QTY CS 4
107		Steel C	pn Girder/E	eam	3	07/24/2019	)	1,320.00	ft	787.00		496.00	37.00		0	.00

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## Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

There are eleven (11) steel plate girders in Span #7 spanning between the Pier #6 east wall and the Pier #7 west wall (Photos 15, 30, 245, 246). Most girder ends have bolted repair plates and angles at the webs and bottom flanges for up to 25' long, with typical light to heavy rust and up to 1/16" section loss to the repair plates and angles. There are isolated areas of 1/8" section loss to webs beyond the repair plates. Remaining areas have scattered light to moderate rust with heavy rust at girder ends. The bottom flanges at girder ends exhibit typical heavy rust and section loss with down to 5/16" remaining thickness. See photos 122-127 and the attached file "070001 Elem 107 Defect Table.pdf" for further details.

Note that Element 8107 - Steel Opn Girder/Beam ENDS has been created and quantifies the end 5'-0" of each girder.

		J v. v								
	515	Steel Protective Coating	3	07/24/2019	19,385.00	sq.ft	7,350.00	6,300.00	5,735.00	0.00
		The fascia sides o moderate rust with u Table.pdf" for further d	up to					J	J	v I
_		3410 Chalk(Steel Protect Coa	tings)	3 07/24/20	19 6,300.0	00 5	sq.ft 0.00	6,300.00	0.00	0.00
		See pho	tos 12	22-127 and the attac	thed file "070001	Elem 107	7 Defect Table.	odf" for further de	etails.	
_		3420 Peel/Bub/Crack(Stl Prote	ect Coat	9 3 07/24/20	19 5,735.0	00 s	sq.ft 0.00	0.00	5,735.00	0.00
		See pho	tos 12	22-127 and the attac	thed file "070001	Elem 107	7 Defect Table.µ	odf" for further de	etails.	
	1000	Corrosion	3	07/24/2019	390.00	ft	0.00	353.00	37.00	0.00
		See photos 122-127 a	nd the	attached file "07000	01 Elem 107 Defe	ect Table.	pdf" for further	details.		
	1900	Distortion	3	07/24/2019	143.00	ft	0.00	143.00	0.00	0.00
		The bottom flanges ex Girder 'A' bottom flat rotating towards the no	nge e	xhibits full length			•	,	the girder (top	o of girder is
		Totaling towards the no	) (III) (F	100 129).	1					
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
109	Pro	e Opn Conc Girder/Beam	3	07/24/2019	14,543.00	ft	11,733.00	1,268.00	1,407.00	135.00

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## Bridge Inspection Report

#### Structure Inventory and Appraisal Sheet (English Units)

The prestressed concrete girders in Spans #1 through #6 and #8 through #14 consist of variable depth post-tensioned cantilevered girder sections over the piers with corbels at the end. The cantilevered girder sections support prestressed concrete drop-in mid-span sections. The prestressed concrete l-gird ers in Spans #15 through #18 are simply supported between the substructure units. Rehabilitation construction is on-going and there are multiple defects that have been repaired or are in the process of being repaired.

The drop-in girders exhibit typical shear cracks at dapped ends, scattered cracked, hollow and spalled areas at dapped ends and bottom flanges undersides with exposed stirrups and prestressing strands, scattered cracked, hollow and spalled areas over the bearings with fully exposed stirrups and reduced bearing areas. See photos 130-144 and the attached files "070001 Elem 109 Shear Crack Table.pdf" and "070001 Elem 109 Defect Table.pdf" for further details.

The corbels exhibit typical cracked, hollow and spalled areas with exposed post tensioned anchor plates on the drop-in span sides throughout. The other faces and undersides exhibit isolated cracks, hollow areas and minor spalls. See photos 146-153 and the attached file "070001 Elem 109 Defect Table.pdf" for further details.

The cantilever girders exhibit typical hairline diagonal cracks along the post-tensioned cable lines, some sealed and unsealed, isolated vertical cracks and hollow area over the pier columns and typical hollow/spalled post-tensioned anchor blocks on the undersides. Other remaining areas exhibit random minor cracked, hollow and spalled areas. The cantilever ends in Span #7 at Pier #6 and Pier #7 (acces sed via the catwalks on the interior walls of the piers) exhibit typical hollow areas/spalls up to full height with fully exposed and debonded stirrups and reduced bearing areas. See photos 154-163 and the attached file "070001 Elem 109 Defect Table.pdf" for further details.

The I-girders in Spans #15 through #18 have scattered hairline cracking with efflorescence, hollow areas, spalls and exposed prestressing strands at girder ends, with more severe spalling and exposed stirrups on the back faces beyond the bearings. There are isolated hollow areas and spalls along bottom flange undersides. See photos 164-174 and the attached file "070001 Elem 109 Defect Table.pdf" for further details.

521	Conc Prot Coating		3	07/24/	2019	5,000.00	)	sq.ft	4,250	0.00	0.00		375.00		375.00
	The drop-ir throughout (I	•		l ends	are coa	ted with	а р	rotective	e sealar	nt which	n has	scattere	ed peelin	g and	cracking
	3510 Wear (Cond	crete Protect C	oat)	3	07/24/2019	)	750.00	)	sq.ft	0.00		0.00	375.0	0	375.00
		See 521 -	- Concr	ete Prote	ctive Coa	ting notes.									
1080	Delamination/Spall/Patch	ned Area	3	07/24/	2019	1,150.00	)	ft	0.0	00	900.0	0	250.00		0.00
	See photos Table.pdf" for			he attach	ned files	"070001	Elem	n 109	Shear C	Crack Ta	ıble .pdf"	and '	"070001 E	Elem 1	09 Defect
1090	Exposed Rebar		3	07/24/	2019	175.00		ft	0.0	00	0.00		50.00		125.00
	See photos Table.pdf" for			he attach	ned files	"070001	Elen	n 109	Shear C	Crack Ta	ıble .pdf"	and '	"070001 E	lem 1	09 Defect
1100	Exposed Prestressing		3	07/24/	2019	25.00		ft	0.0	00	0.00		15.00		10.00
	See photos Table.pdf" for			he attach	ned files	"070001	Elen	n 109	Shear C	Crack Ta	ıble .pdf"	and '	"070001 E	lem 1	09 Defect
1110	Cracking (PSC)		3	07/24/	2019	727.00		ft	0.0	00	0.00		727.00		0.00

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## Bridge Inspection Report

#### Structure Inventory and Appraisal Sheet (English Units)

		- 1	See photos Table.pdf" fo			the a	attached	files	"070001	Elem	109	Shear	Crack	Table.	pdf"	and	"070001	Elem	109	) Defect
	1120	Efflores	cence/Rust Stain	ing	3		07/24/2019	)	730.00		ft		0.00		365.00	)	365.0	0		0.00
		- 1	See photos Table.pdf" fo			the a	attached	files	"070001	Elem	109	Shear	Crack	Table.	pdf"	and	"070001	Elem	า 109	) Defect
	7000	Damage	•		3		07/24/2019	)	3.00		ft		0.00		3.00		0.00			0.00
			The prestre locations: - Span #16 ( - Span #18 A	Girder 'E'	east of	midsp	an: 3' lor	ng x u	p to ¼" de			the bo	ttom fl	anges	over	trav	el lanes	in	the	following
	8368	Graffiti			3		07/24/2019	)	200.00		ft	:	200.00		0.00		0.00			0.00
		[	The drop-in	girder en	ds in Sp	an #4	have sca	attere	d areas of	minor	to mod	derate g	ıraffiti (F	Photo 14	5).					
ELEM NBR		ELE	EMENT NAME		ENV	IN	ISP. DATE		QUANT	ITY	UNITS		QTY CS 1		QTY CS 2		QTY CS 3			QTY CS 4
110	Re	Conc	Opn Girder/	Beam	3	07	//24/2019		2,880.00		ft		954.00	1	,188.00	0	688.00	)		50.00
	_										_									

This element defines reinforced concrete fascia arches in Spans #1 through #6, #8 through #13 and #1R through #3R (Photos 8-17, 23-25). The arches consist of cantilevered sections at the piers and drop-in midspan sections. The cantilever sections support the drop-in sections with concrete keys at shiplap joints with elastomeric bearing pads. Rehabilitation construction is on-going and there are multiple defects that have been repaired or are in the process of being repaired.

The arches exhibit typical vertical and transverse hairline cracks in the midspan sections, typical hairline to medium horizontal cracks at the shiplap joints, scattered hollow areas and spalls above and below the joint keys with several through holes, exposed and debonded stirrups and rebars, and scattered cracked, hollow and spalled areas on the bottom flanges. See photos 106-121 and the attached file "070001 Elem 110 Defect Table.pdf" for further details.

	521	Conc Prot Coating	3	07/24/2019	14,800.00	sq.ft	14,800.00	0.00	0.00	0.	.00
		The arch exterior See photos 106-12		ŭ				•	(Photos	8-17, 2	23-25).
	1080	Delamination/Spall/Patched Area	3	07/24/2019	800.00	ft	0.00	600.00	200.00	0.	.00
		See photos 106-12	1 and the atta	ached file "070001	Elem 110 Defe	ct Table.	pdf" for further	details.			
	1090	Exposed Rebar	3	07/24/2019	100.00	ft	0.00	0.00	50.00	50	0.00
		See photos 106-12	1 and the atta	ached file "070001	Elem 110 Defe	ct Table.	pdf" for further o	details.			
	1120	Efflorescence/Rust Staining	3	07/24/2019	450.00	ft	0.00	300.00	150.00	0.	0.00
		See photos 106-12	1 and the atta	ached file "070001	Elem 110 Defe	ct Table.	pdf" for further o	details.			
	1130	Cracking (RC and Other)	3	07/24/2019	576.00	ft	0.00	288.00	288.00	0.	0.00
		See photos 106-12	1 and the atta	ached file "070001	Elem 110 Defe	ct Table.	pdf" for further o	details.			
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3		QTY SS 4
205		Re Conc Column	3	07/24/2019	92.00	each	40.00	20.00	32.00	0.0	00

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## **Bridge Inspection Report**

#### Structure Inventory and Appraisal Sheet (English Units)

There are reinforced concrete columns at Piers 1# through #13 that support the cantilever girders and at Piers #14 through #17 that support the reinforced concrete pier caps (Photos 223-225, 236-238, 255-25 7).

The cantilever girder columns exhibit isolated hairline vertical and map cracks, hollow areas and spalls (Photo 241). The pedestals at the top of the columns exhibit typical scattered hollow areas/spalls up to full width x full height x 2" deep with exposed edges of steel bearing plates (Photo 239).

The pier cap columns exhibit typical scattered sealed/unsealed vertical cracks and rust staining throughout with isolated hairline map cracks, efflorescence, hollow areas and spalls (Photo 234).

See photos 236-238, 255-257 and the attached file "070001 Elem 205 Defect Table.pdf" for further details

	1080	Delami	ination/Spall/Patched Area	3	07/24/2019	42.00	each	0.00	20.00	22.00	0.00
			See photos 234, 236-2	238, 25	55-257 and the attac	hed file "070001	Elem 205	Defect Table.p	df" for further d	etails.	
	1120	Efflores	scence/Rust Staining	3	07/24/2019	5.00	each	0.00	0.00	5.00	0.00
			See photos 234, 236-2	238, 25	55-257 and the attac	hed file "070001	Elem 205	Defect Table.p	df" for further d	etails.	
	1130	Crackir	ng (RC and Other)	3	07/24/2019	5.00	each	0.00	0.00	5.00	0.00
			See photos 234, 236-2	238, 25	55-257 and the attac	hed file "070001	Elem 205	Defect Table.p	df" for further d	etails.	
	8368	Graffiti		3	07/24/2019	300.00	each	0.00	300.00	0.00	0.00
			The Pier #3 and Pier #	10 col	lumns have heavy gi	raffiti on the lowe	er halves (	Photo 236).			
ELEM NBR		EL	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
210		Re C	Conc Pier Wall	3	07/24/2019	1,151.00	ft	666.00	290.00	172.00	23.00

There are reinforced concrete pier walls at Piers #1 through #13 and #1R through #3R. All pier walls except the east pier wall of Pier #6, the west pier wall of Pier #7 and Piers #1R through #3R are non-str uctural and act as curtain walls providing architectural (stone façade) and protective effects to the pier columns (Photos 235-238, 247, 255-257). The east pier wall of Pier #6 and the west pier wall of Pier #7 support the cantilever girder ends in Spans #6 and #8 (through cantilever support pedestals) and the steel girders in Span #7 (Photos 245-246). The cantilever girder pedestals can be accessed via the catwalks on the interior portions of Pier #6 and Pier #7; see inspection notes at end of report (285-286). Pier walls #1R through #3R support the Gano Street off-ramp box girder superstructure (Photos 259-263) . There are reinforced concrete pylons/ walls at the north and south ends of the piers that extend from the coping at the base of the bridge railings (Photos 16-17, 262).

The pier walls on land have a new protective coating in most locations and all piers have sealed vertical and map cracks throughout with isolated cracks re-opening (Photos 235-238, 247, 255-257). Scattered cracks through the pier wall stone facades remain throughout (Photo 243). The pylons remain uncoated and exhibit typical scattered hairline cracking with efflorescence and rust staining. See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.

521	Conc Prot Coating	3	07/24/2019	25,200.00	sq.ft	25,200.00	0.00	0.00	0.00
	The pier walls 210 Defect Table			_	See photos	235, 256-258	and the	attached file	"070001 Elem
1080	Delamination/Spall/Patched Ar	ea 3	07/24/2019	175.00	ft	0.00	75.00	77.00	23.00

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Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R.

## Rhode Island Department of Transportation

# Bridge Inspection Report

# Structure Inventory and Appraisal Sheet (English Units)

		Con photo- DOF COD	مطالم مم	attached file "07000			adf" far - -+-: -	of dotori		
		See photos 235-263 a	and the	attached file 07000	JI Elelli 210 Del	ect Table.	odi for details	or deterioration.		
1120	Efflores	scence/Rust Staining	3	07/24/2019	80.00	ft	0.00	40.00	40.00	0.00
		See photos 235-263	and the	attached file "07000	01 Elem 210 Det	fect Table.	odf" for details	of deterioration.		
1130	Crackir	ng (RC and Other)	3	07/24/2019	115.00	ft	0.00	60.00	55.00	0.00
		See photos 235-263 a	and the	attached file "07000	01 Elem 210 Det	fect Table.	odf" for details	of deterioration.		
6000	0		3	07/04/0040	445.00		0.00	445.00	0.00	0.00
6000	Scour			07/24/2019	115.00	ft	0.00	115.00	0.00	0.00
		2017 Underwater Insp Since the 2013 Unaggradation up to 4.6	derwate	=	e is evidence	of scour	at most piers	up to 3.4' d	eep (Pier #8)	and areas
8368	Graffiti		3	07/24/2019	400.00	ft	0.00	400.00	0.00	0.00
		The pier walls on land	d exhibit	isolated moderate	to heavy graffiti	(Photos 23	35-236).			
			1 1						1	
	EL	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
Ш_	Re C	Conc Abutment	3	07/24/2019	230.00	ft	78.00	44.00	108.00	0.00
e colu hibits : ast Ab ays 'H	umns scatte utme ' an	vere accumulation preventing the ered hairline crace ent #2 is a full d 'l' (Photos 2	on of le ins king. I heig 215-21	pigeon debr spection of t ght abutment 6, 280). See	the stub a with an e inspection	eting pi abutment electrica notes	geons beh t stem (F I utility ro for electri	ind the ware Photo 214)  oom built ideal room	all up to t . The reta into the al notes. The	the top ining wo outment abutme
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Envelope: 4861673 Reviewer: Alexandra R.

# Rhode Island Department of Transportation

# Bridge Inspection Report

# Structure Inventory and Appraisal Sheet (English Units)

	S	ee photos 213-222 a		entory and and a attached file "07000						
8368	S8 Graffiti		3	07/24/2019	200.00	ft	0.00	200.00	0.00	0.00
	W	/est Abutment #1R ha	as hea	avy graffiti covering r	most of its surface	Photo 2	222).			
EM BR	ELEM	IENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
20	Re Cond	Pile Cap/Ftg	3	07/24/2019	1,151.00	ft	1,150.00	1.00	0.00	0.00
The ex wide a ' (full-h Piers a	xposed pand are neight) at #3R, #5	er Inspection: bile caps step exposed up to Pier #3R (Gano and #9 exhib o observed und	o ful Stred	ll-height with vertical set Ramp).	varying mea	sureme	ents from	2' (full-heig	ht) at Pier	#5 to 9
1130		RC and Other)	3	07/24/2019	1.00	ft	0.00	1.00	0.00	0.00
		017 Underwater Insp ier #3R pile cap has			le extending from	the top o	f the pile cap.			
EM BR	ELEM	IENT NAME	ENV	INSP DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
34	Re Co	nc Pier Cap	3	07/24/2019	388.00	ft	52.00	313.00	23.00	0.00
1080		m 234 Defect Ta				d spa	0.00 pl	notos 223-2 	231 and the	e attache
	30 Delaminat	m 234 Defect Ta	ble.p	odf" for further (	details.	ft	0.00	293.00		
	Delaminat	m 234 Defect Ta ion/Spall/Patched Area ee photos 223-231 a	ble.p	odf" for further (	details.	ft	0.00	293.00		
1080	Delaminat S  Exposed F	m 234 Defect Ta ion/Spall/Patched Area ee photos 223-231 a	3 and the	odf" for further ( 07/24/2019 e attached file "07000 07/24/2019	308.00 01 Elem 234 Defe	ft ect Table.	0.00 pdf" for further o	293.00 details.	15.00	0.00
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1080	Delaminat Si	m 234 Defect Ta ion/Spall/Patched Area ee photos 223-231 a Rebar ee photos 223-231 a	3 and the	odf" for further ( 07/24/2019  e attached file "07000  07/24/2019  e attached file "07000  07/24/2019	308.00 01 Elem 234 Defe 1.00 01 Elem 234 Defe 15.00	ft ect Table.	0.00 pdf" for further of the form of the further of	293.00 details. 1.00 details. 7.00	15.00	0.00
1080	Delaminat  Significant  Delaminat  Significant  Exposed Figure 100  Effloresce  Significant  Sig	m 234 Defect Ta ion/Spall/Patched Area ee photos 223-231 a Rebar ee photos 223-231 a nce/Rust Staining	3 and the	odf" for further ( 07/24/2019  e attached file "07000  07/24/2019  e attached file "07000  07/24/2019	308.00 01 Elem 234 Defe 1.00 01 Elem 234 Defe 15.00	ft ect Table.	0.00 pdf" for further of the form of the further of	293.00 details. 1.00 details. 7.00	15.00	0.00
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Reviewer: Alexandra R.

## Rhode Island Department of Transportation

# **Bridge Inspection Report**

# Structure Inventory and Appraisal Sheet (English Units)

			The deck joint seal is I	oose/s	sagging/fallen along	the underside (Pl	notos 65-	66).			
23	350	Debris	Impaction	3	07/24/2019	5.00	ft	0.00	5.00	0.00	0.00
			The joint has full lengt	h parti	al debris impaction t	hat still allows fre	e movem	ent of the joint	(Photo 56).		
23	370	Metal [	Deterioration or Damage	3	07/24/2019	5.00	ft	0.00	0.00	5.00	0.00
			The steel extrusion that has been paved o			joint in the wh	eel line	of the right n	niddle lane ha	s a 3' long m	issing section
EM BR		EL	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
301		Pour	able Joint Seal	3	07/24/2019	1,151.00	ft	507.00	544.00	85.00	15.00
7. All const and d	l jo truct lepre	ints tion esse	Piers #7 throug have been pave (Photos 7, 42-4 d pavement with r	ed ov 44). mino	ver in the rigl The wearing r potholes, and	nt lanes of surface alor random locar	I-195 \ ng dec tions of	Westbound ck joint ed f raveling (P	as part of dges exhib Photos 55, 5	f the on-go its scattere 7-59, 62).	ing bridge d patches
23	310	Leakag		3	07/24/2019	344.00	ft	0.00	344.00	0.00	0.00
			The joints exhibit scatt	ered e	evidence of leakage	along the undersi	des (Pho	tos 94, 104).			
23	320	Seal A	dhesion	3	07/24/2019	300.00	ft	0.00	200.00	85.00	15.00
			The pourable joint	seals	exhibit typical los	s of seal adhe	sion un	to full length	with isolated	locations of	full adhesion
			failure (Photos 55, 57-	59, 62	).	o or oour adric		to run longu	Will looked	iodationo or	
.EM BR		EL	failure (Photos 55, 57-	59, 62 ENV	). INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
310 There		Elast	ement NAME  omeric Bearing  stomeric bearing p	ENV 3	INSP. DATE 07/24/2019  for the followin	QUANTITY 401.00 g elements a	UNITS each	QTY CS 1 136.00	QTY CS 2 190.00	QTY CS 3 75.00	QTY
There - P/S ( - Post - P/S ( - Cor	con t-ter con ncre	e elas crete nsion crete	etomeric Bearing stomeric Bearing per drop-in girder danged concrete canticellegisches in Spanascia arches at Spans #1R through	3 Dads apped ilever s #14 the	for the followin d ends at the co r girder ends at t through #18 shiplap joints	QUANTITY 401.00  g elements a rbels in Span the east wall	each  nd loca is #1 th of Pier	CS 1 136.00 tions: rough #6 ar	QTY CS 2 190.00 and #8 throug west wall of	QTY CS 3 75.00 Ih #14 F Pier #7	OTY CS 4 0.00
There - P/S ( - Post - P/S ( - Cor	cond t-ter cond ncre valls	e elas crete nsion crete te fa s in S	etomeric Bearing stomeric Bearing per drop-in girder danged concrete canticellegisches in Spanascia arches at Spans #1R through	3 Dads apped allever s #14 the h #3R	INSP. DATE 07/24/2019  for the followin d ends at the co r girder ends at t through #18 shiplap joints t	g elements and rbels in Spans the east wall in Spans #	units each  nd loca as #1 th of Pier  1 throu	ory cs 1 136.00 ntions: rough #6 are #6 and the ugh #6 and	qTY CS 2 190.00 and #8 throug west wall of d Spans #8	GTY CS 3 75.00 In #14 F Pier #7 3 through #	QTY CS 4 0.00
There - P/S ( - Post - P/S ( - Cor	cond t-ter cond ncre valls	e elas crete nsion crete te fa s in S	et concrete cantile led concrete cantile led concrete cantile led concrete cantile led concrete at spans #1R through cent All measurements were the drop in girder be photo 147) The bearing	poads appective substitution of the substituti	INSP. DATE  07/24/2019  for the followin d ends at the co r girder ends at 4 through #18 shiplap joints  07/24/2019  orded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a	QUANTITY  401.00  g elements a rbels in Span the east wall  in Spans #  4.00  re of 80 90 degree ough #3, #6, #and #12 are typica	units each  nd loca is #1 th of Pier  1 throu  each each each as Fahre 3, #9, #	ory cs 1 136.00 Itions: rough #6 and #6 and the ugh #6 and 0.00 Inheit	qTY CS 2 190.00 and #8 throug west wall of d Spans #8	GTY CS 3 75.00 Ih #14 F Pier #7 8 through #	QTY CS 4 0.00
There - P/S ( - Post - P/S ( - Cor	cond t-ter cond ncre valls	e elas crete nsion crete te fa s in S	et concrete cantile lend concrete cantile lend concrete cantile lend concrete cantile lend concrete state arches at spans #1R throughout the drop in girder behavior of the lend concrete cantile lend	poads appective suppose suppos	INSP. DATE  07/24/2019  for the followin d ends at the co r girder ends at 4 through #18 shiplap joints  07/24/2019  orded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a	QUANTITY  401.00  g elements a rbels in Span the east wall  in Spans #  4.00  re of 80 90 degree ough #3, #6, #and #12 are typically neut	units each  nd loca is #1 th of Pier  1 throu  each each each ally neutra	ory cs 1 136.00  Itions: rough #6 and the ugh #6 and the ugh #13 and #2 al or expanded panded up to ½	qTY CS 2 190.00  and #8 throug west wall of d Spans #8 0.00  #14 are typical up to 1"  " (Photo 206)	GTY CS 3 75.00 Ih #14 F Pier #7 8 through #	0.00 QTY CS 4 0.00
There - P/S ( - Post - P/S ( - Cor pier w	cond t-ter cond ncre valls	e elast e elast crete ension crete te fa s in S	et concrete cantile led concrete cantile led concrete cantile led concrete cantile led concrete at spans #1R through cent All measurements were the drop in girder be photo 147) The bearing	poads appective suppose suppos	INSP. DATE  07/24/2019  for the followin d ends at the co r girder ends at 4 through #18 shiplap joints  07/24/2019  orded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a	QUANTITY  401.00  g elements a rbels in Span the east wall  in Spans #  4.00  re of 80 90 degree ough #3, #6, #and #12 are typically neut	units each  nd loca is #1 th of Pier  1 throu  each each each ally neutra	ory cs 1 136.00  Itions: rough #6 and the ugh #6 and the ugh #13 and #2 al or expanded panded up to ½	qTY CS 2 190.00  and #8 throug west wall of d Spans #8 0.00  #14 are typical up to 1"  " (Photo 206)	GTY CS 3 75.00 Ih #14 F Pier #7 8 through #	0.00 QTY CS 4 0.00
There - P/S ( - Post - P/S ( - Cor pier w	conditated	e elast e elast crete ension crete te fa s in S	etomeric bearing per drop-in girder dans ded concrete cantile I-girders in Span ascia arches at Epans #1R throughent  All measurements were The drop in girder bearing The I Girder bearings  The I Girder bearings	pads speed illever s #14 the n #3F 3 re recording in Spangs in \$ 3 rexhibit	INSP. DATE  07/24/2019  for the following dends at the congress rends at through #18 shiplap joints at through #18 orded at a temperature in Spans #1 through #18 shiplap for the following #18 shiplap for the following #18 shiplap for the following #18 shiplap #18 shipla	QUANTITY  401.00  g elements arbels in Spanthe east wall  in Spans #  4.00  re of 80 90 degree ough #3, #6, #4 and #12 are typical are typically neuther \$3R\$ typically neuther \$200.00  tears throughouter \$100.00	units each  nd loca s #1 th of Pier  1 throu  each each each ally neutra rral or exp tral or exp each t. Rando	ory CS 1 136.00  Itions: rough #6 and the ugh to ½ one up to µ one up	QTY CS 2 190.00  and #8 throug west wall of d Spans #8  0.00  #14 are typical up to 1" " (Photo 206) " (Photo 209)  150.00  exhibit minor	qTY CS 3 75.00   h #14  F Pier #7  3 through # 4.00   ly in contraction   50.00   to moderate	0.00 an up to ½"

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Steel Protective Coating

1000

Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R.

#### Rhode Island Department of Transportation

## Bridge Inspection Report

## Structure Inventory and Appraisal Sheet (English Units)

There are scattered locations of bearing area loss due to spalls undermining the bearings and spalls above the bearings reducing the bearing area. See photos 107, 109, 111, 115, 136, 142, 147, 148, 163, 170, 205, 229-230 and the attached files "070001 Elem 109 Defect Table.pdf", "070001 Elem 110 Defect Table.pdf" and "070001 Elem 234 Defect Table.pdf" for further details.

In Span #14 at Pier #14, Bearing 'F' overhangs the pedestal ¾" deep x 14" long (Photo 205).

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
311	Moveable Bearing	3	07/24/2019	11.00	each	0.00	7.00	4.00	0.00

There are steel rocker bearings in Span #7 at Pier #6 that have limited access for full inspection due to bearing restraints in place at the east face of each bearing. There are up to full width x  $\frac{1}{2}$ " high x 6" deep gaps beneath the bearing restraints at the east face (per rehab plans). The bearings have light to moderate accumulation of sand and debris (Photo 210).

Steel Protective Coating 07/24/2019 132.00 0.00 44.00 88.00 The bearings have a steel protective coating with areas of peeling paint and light to moderate rust. Bearings 'A', 'B', and 'K' have no paint remaining (Photo 210). Peel/Bub/Crack(Stl Protect Coat 3 07/24/2019 44 00 88.00 3420 132.00 sq.ft 0.00 0.00 See 515 - Steel Protective Coating notes. 1000 0.00 Corrosion 07/24/2019 The bearings and anchor bolts typically have light to moderate rust. Bearings 'A', 'B', 'J' and 'K' have heavy laminated rust on the bearings and anchor bolts with up to 3/8" thick pack rust between the bearing plates (Photo 210). 07/24/2019 Alignment 1.00 0.00 The bearings exhibit typical minor expansion at 80 degrees Fahrenheit (Photo 210). Bearing 'A' assembly is uneven with no gap at the south end and a 1" gap at the north end of the restraint plate (Photo 212) 2240 Loss of Bearing Area 07/24/2019 1.00 0.00 1.00 0.00 Bearing 'K' is undermined at the north east corner 4" wide x 4" long x 2" deep and along the west edge 16" wide x up to 1" long (Photo 248) ELEM OTY OTY OTY OTY ELEMENT NAME INSP. DATE QUANTITY UNITS **Fixed Bearing** 

There are fixed steel bearings in Span #7 at Pier #7 that have limited access for full inspection due to bearing restraints in place at the west face of each bearing. There are up to full width x  $\frac{1}{2}$ " high x 6" deep gaps beneath the bearing restraints at the west face (per rehab plans). The bearings have light to moderate accumulation of sand and debris (Photo 211).

The fixed bearings have a steel protective coating with areas of peeling paint with light to moderate rust (Photo 211).

Bearings 'A', 'B', 'J' and 'K' have no paint remaining.

3420 Peel/Bub/Crack(Stl Protect Coat 3 07/24/2019 110.00 sq.ft 0.00 0.00 66.00 44.00

3420 Peel/Bub/Crack(Stl Protect Coat 3 07/24/2019 110.00 sq.ft 0.00 0.00 66.00 44.00

| See 515 - Steel Protective Coating notes.

The bearings and anchor bolts typically have light to moderate rust (Photo 211). Bearings 'A', 'B', 'J' and 'K' have heavy laminated rust on the bearings and anchor bolts.

sq.ft

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
321	Re Conc Approach Slab	3	07/24/2019	2,352.00	sq.ft	0.00	2,352.00	0.00	0.00

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# Rhode Island Department of Transportation

# Bridge Inspection Report

			Structure	IIIVE	entory an	u A	ppraisai	Snee	ı (Eng	ıısn	Units)		-
			ed concrete a <sub>l</sub> tos 1-5, 67-71).	oproa	ch slabs	are	concealed	from	ı view	by	bitumino	us concrete	e wearing
	510	Wearing	g Surfaces	3	07/24/2019		2,352.00	sq.ft	1,352.00		500.00	500.00	0.00
			The wearing surfaces	have m	noderate wheel I	line ru	tting with sealed	d and un	sealed crad	cks thr	oughout (Pho	tos 67-71).	
_		322	20 Crack (Wearing Surface	)	3 07/2	4/2019	2,352.00	) 5	sq.ft 1	352.00	500.00	500.00	0.00
			See 510	) Wea	aring Surface no	otes							
ELEM NBR		EL	EMENT NAME	ENV	INSP. DATE		QUANTITY	UNITS	QTY CS 1		QTY CS 2	QTY CS 3	QTY CS 4
331	R	le Con	c Bridge Railing	3	07/24/2019		3,808.00	ft	3,396.00		411.00	1.00	0.00
o 42 d a inter	2) . s parior f	Num art d aces	inforced concret erous sections of the bridge of the bridge epylons is includ	of th rehab railin	ne railings pilitation (P ngs, many	at t hoto with	he deck jo 74). The	ints w	vere rec e scatte	ently red	demolish utility bo	ned and re- ox covers	constructe
	1080		nation/Spall/Patched Area	3	07/24/2019		10.00	ft	0.00		10.00	0.00	0.00
			The bridge railings e at Pier #14 has a 12" I The pylons exhibit typ	ong x 6	6" high x 1" deep	spall				ing (	Photo 76). In	Span #14 the	e north railing
	1120	Efflore	cence/Ru t Staining	3	07/24/2019		1 00	ft	0 00		0 00	1 00	0 00
			See 1130 Cracking r	notes									
	1130	Crackin	g (RC and Other)	3	07/24/2019		351.00	ft	0.00		351.00	0.00	0.00
			The bridge railings scattered cracks and r				full height ha	airline v	vertical cra	icks	(Photo 75).	The pylons of	exhibit typical
	7000	Damag	e	3	07/24/2019		50.00	ft	0.00		50.00	0.00	0.00
			The bridge railings ext	nibit rar	ndom minor scra	apes.							
ELEM NBR		EL	EMENT NAME	ENV	INSP. DATE		QUANTITY	UNITS	QTY CS 1		QTY CS 2	QTY CS 3	QTY CS 4
8060			Scupper	3	07/24/2019		27.00	(EA)	0.00		3.00	20.00	4.00
oper shou #17	Gand Mait Mas Gandar Mas	b Str th cl is f a di	drainage grates reet Off-Ramp a ean drain pipe fully clogged an isconnected sec ave been replaced	are fo oper d mi tion	ully clogged nings (Photossing the control (Photos 270)	d w os { drair ). Th	ith sand a 32, 268). Ir nage grate ne drain pi	nd de Spai (Photo pes o	ebris; or n #17 t o 269).	nly i he d The	solated g drainage g drain pip	rates remai grate along e at the ei	n partially the north nd of Pier
	1000	Corrosi	on	3	07/24/2019		4.00	(EA)	0.00		0.00	0.00	4.00
			The scupper drain south face of Column						•	•			pipes on the
ELEM NBR		EL	EMENT NAME	ENV	INSP. DATE		QUANTITY	UNITS	QTY CS 1		QTY CS 2	QTY CS 3	QTY CS 4
8107	Stee	l Opn	Girder/Beam ENDS	1	07/24/2019		110 00	ft	0 00		0 00	110 00	0 00
See	Elem	ent 1	07 notes, photos	122-1	127 and the a	attac	hed file "07	0001 E	lem 107	Defe	ct Table.pd	lf".	
	515	Steel P	rotective Coating	1	07/24/2019		1,615.00	sq.ft	0.00		0.00	615.00	1,000.00

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Reviewer: Alexandra R.

# Rhode Island Department of Transportation

# Bridge Inspection Report

		See Element 107 note					m 107 Defect T			
_	3	420 Peel/Bub/Crack(Stl Pro	tect Coa	t 1 07/24/20	19 1,615.0	10 \$	sq.ft 0.00	0.00	615.00	1,000.00
		See Ele	ment	107 notes, photos 12	22-127 and the a	tached fi	le "070001 Eler	n 107 Defect Ta	able.pdf".	
	ı								,	
ELEM NBR	E	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8213	R	/C Return Wall	3	07/24/2019	175.00	(LF)	0.00	150.00	25.00	0.00
2 aı		einforced concret oth ends of We rowth.	_							
	1080 Delai	mination/Spall/Patched Area	3	07/24/2019	44.00	(LF)	0.00	44.00	0.00	0.00
		The top of the north 264).	nwest	return wall at Wes	st Abutment #1	has mu	ltiple edge spa	alls along the	cope up to 2"	deep (Photo
	1120 Efflor	rescence/Rust Staining	3	07/24/2019	110.00	(LF)	0.00	85.00	25.00	0.00
		The return walls have	scatte	red areas of hairline	map cracks with	isolated	efflorescence a	nd rust (Photos	264-267).	
	1130 Crac	king (RC and Other)	3	07/24/2019	21.00	(LF)	0.00	21.00	0.00	0.00
		See 1120 Efflorescend	ce/Rus	t Staining notes.						
	8368 Graff	iti	3	07/24/2019	100.00	(LF)	100.00	0.00	0.00	0.00
		There is anti-graffiti pa	aint an	d light graffiti on the	West Abutment #	1R returr	n walls (Photos	266-267).		
	I		1		I				ı	
ELEM	Ι,							OTV	OTV	OTV
NBR	·	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8218	Вас	kwall, All Types	3	07/24/2019	230.00	(LF)	CS 1 104.00	CS 2 80.00	CS 3 46.00	CS 4 0.00
8218 Ther	Bac re are	ckwall, All Types	³	07/24/2019 Dackwalls at t	230.00 the abutmen	(LF)	CS 1 104.00 est Abutme	80.00 ent #1 bac	CS 3 46.00 kwall is ir	CS 4 0.00
Ther due	Bac re are to the he	kwall, All Types	³	07/24/2019 Dackwalls at t	230.00 the abutmen	(LF)	CS 1 104.00 est Abutme	80.00 ent #1 bac	CS 3 46.00 kwall is ir	CS 4 0.00
Ther due	Bac re are to the he	ckwall, All Types reinforced concre eavy accumulation	3 ete la of pi	oackwalls at t geon debris and	the abutment d nesting pig	(LF) ts. We eons o	cs 1 104.00 est Abutme n the abutm	80.00 ent #1 bac ent seat (Ph	cs 3 46.00 kwall is ir 10.00	0.00 0.00 0.00
Ther due	Bac re are to the he	reinforced concre eavy accumulation mination/Spall/Patched Area West Abutment #1R	3 ete la of pi	oackwalls at t geon debris and	the abutment d nesting pig	(LF) ts. We eons o	cs 1 104.00 est Abutme n the abutm	80.00 ent #1 bac ent seat (Ph	cs 3 46.00 kwall is ir 10.00	0.00 0.00 0.00
Ther due	Bac re are to the he	reinforced concre eavy accumulation mination/Spall/Patched Area West Abutment #1R deep.	of pi	oackwalls at t geon debris and 07/24/2019 East Abutment #2 07/24/2019	the abutmend nesting pig  80.00 backwalls exhib	(LF)  (LF)  (LF)	cs 1 104.00  est Abutme n the abutm 0.00  n hollow and	ent #1 bac ent seat (Ph 70.00 minor spalls u	cs 3 46.00 kwall is ir 10.00 p to 2' long x	0.00  0.00  0.00  2' high x 2"
Ther due	Bac re are to the he 1080 Delai	reinforced concreteavy accumulation mination/Spall/Patched Area  West Abutment #1R deep. rescence/Rust Staining  West Abutment #18	of pi	oackwalls at t geon debris and 07/24/2019 East Abutment #2 07/24/2019	the abutmend nesting pig  80.00 backwalls exhib	(LF)  (LF)  (LF)	cs 1 104.00  est Abutme n the abutm 0.00  n hollow and	ent #1 bac ent seat (Ph 70.00 minor spalls u	cs 3 46.00 kwall is ir 10.00 p to 2' long x	0.00  0.00  0.00  2' high x 2"
Ther due	Bac re are to the he 1080 Delai	reinforced concrete avy accumulation mination/Spall/Patched Area  West Abutment #1R deep.  West Abutment #1R deep.  West Abutment #1R deep.	3 and 3 R and 3 R and 3 R and	07/24/2019  Dackwalls at t geon debris and 07/24/2019  East Abutment #2  07/24/2019  It East Abutment 7, 222).  07/24/2019  It East Abutment	the abutmend nesting pig  80.00 backwalls exhib  23.00 #2 backwalls	(LF)  (LF)  (LF)  (LF)	cs 1 104.00  est Abutme n the abutm 0.00  n hollow and 0.00  typical scatter 0.00	ent #1 bac ent seat (Ph 70.00 minor spalls u	cs 3 46.00  ckwall is in 10.00  p to 2' long x 13.00  ertical cracks,	0.00  0.00  2' high x 2"  0.00  efflorescence
Ther due	Bac re are to the he 1080 Delai 1120 Efflor 1130 Crack	reinforced concrete avy accumulation mination/Spall/Patched Area  West Abutment #1R deep.  West Abutment #1R and rust Staining  West Abutment #1R West Abutment #1R West Abutment #1R West Abutment #1R	3 and 3 R and 3 R and 3 R and	07/24/2019  Dackwalls at t geon debris and 07/24/2019  East Abutment #2  07/24/2019  It East Abutment 7, 222).  07/24/2019  It East Abutment	the abutmend nesting pig  80.00 backwalls exhib  23.00 #2 backwalls	(LF)  (LF)  (LF)  (LF)	cs 1 104.00  est Abutme n the abutm 0.00  n hollow and 0.00  typical scatter 0.00	ent #1 bac ent seat (Ph 70.00 minor spalls u	cs 3 46.00  ckwall is in 10.00  p to 2' long x 13.00  ertical cracks,	0.00  0.00  2' high x 2"  0.00  efflorescence
8218 Ther due	Bac re are to the he 1080 Delat 1120 Efflor 1130 Cract	reinforced concreteavy accumulation mination/Spall/Patched Area  West Abutment #1R deep.  West Abutment #1F and rust staining (Pho king (RC and Other)  West Abutment #1F and rust staining (Pho king (RC and rust staining (Pho line (Pho l	3 and 3 R and	07/24/2019  Dackwalls at t geon debris and 07/24/2019  East Abutment #2  07/24/2019  If East Abutment 7, 222).  07/24/2019  If East Abutment 7, 222).	the abutmend nesting pig  80.00 backwalls exhib  23.00 #2 backwalls  23.00 #2 backwalls	(LF)  (LF)  exhibit  (LF)	cs 1 104.00 est Abutmen the abutm 0.00 n hollow and 0.00 typical scattered typical scattered	ent #1 bacent seat (Ph 70.00 minor spalls u 10.00 ed hairline ve	cs 3 46.00  ckwall is ir 10.00  p to 2' long x 13.00  ertical cracks, 23.00  ertical cracks,	0.00  accessible 0.00  2' high x 2" 0.00 efflorescence 0.00 efflorescence
ELEM NBR 8305 Ther 6 ar #17.	Bacter are a and on the All joi	reinforced concrete avy accumulation mination/Spall/Patched Area  West Abutment #1R deep.  escence/Rust Staining  West Abutment #1F and rust staining (Photoking (RC and Other)  West Abutment #1F and rust staining (Photoking (RC and Other))	3 and 3 and 3 R and R and tos 21  ENV  This copiers  Repayed	07/24/2019 Dackwalls at t geon debris and 07/24/2019 East Abutment #2 07/24/2019 If East Abutment 7, 222). 07/24/2019 If East Abutment 7, 222). INSP. DATE 07/24/2019 On the east sid #8 through ## d over in the	the abutmend nesting pig 80.00 backwalls exhib 23.00 #2 backwalls 23.00 #2 backwalls  QUANTITY 1,438.00 de of West 13. There ar	(LF)  exhibit  UNITS  (LF)  Abutmee also	cs1 104.00  est Abutmenthe abutm 0.00  n hollow and 0.00  typical scattered 0.00  typical scattered 2TY CS1 987.00  ent #1 and asphaltic	ent #1 bacent seat (Phase 10.00)  minor spalls used hairline versus 2  451.00  Piers #1 splug joints	cs 3 46.00  ckwall is in 10.00  p to 2' long x 13.00  ertical cracks,  23.00  ertical cracks,  at Piers #*	cs 4 0.00  naccessible 0.00 2' high x 2" 0.00 efflorescence 0.00 efflorescence  QTY CS 4 0.00 #5 and #14 through
ELEM NBR 8305 Ther 6 ar #17. bride	Bacter are a and on the All joi	reinforced concrete avy accumulation mination/Spall/Patched Area  West Abutment #1R deep.  West Abutment #1F and rust staining (Photos Abutment #1F and rust staining Abutment #	3 and 3 and 3 R and R and tos 21  ENV  This copiers  Repayed	07/24/2019 Dackwalls at t geon debris and 07/24/2019 East Abutment #2 07/24/2019 If East Abutment 7, 222). 07/24/2019 If East Abutment 7, 222). INSP. DATE 07/24/2019 On the east sid #8 through ## d over in the	the abutmend nesting pig 80.00 backwalls exhib 23.00 #2 backwalls 23.00 #2 backwalls  QUANTITY 1,438.00 de of West 13. There ar	(LF)  exhibit  UNITS  (LF)  Abutmee also	cs1 104.00  est Abutmenthe abutm 0.00  n hollow and 0.00  typical scattered 0.00  typical scattered 2TY CS1 987.00  ent #1 and asphaltic	ent #1 bacent seat (Phase 10.00)  minor spalls used hairline versus 2  451.00  Piers #1 splug joints	cs 3 46.00  ckwall is in 10.00  p to 2' long x 13.00  ertical cracks,  23.00  ertical cracks,  at Piers #*	cs 4 0.00  naccessible 0.00 2' high x 2" 0.00 efflorescence 0.00 efflorescence  QTY CS 4 0.00 #5 and #14 through

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Reviewer: Alexandra R.

## Rhode Island Department of Transportation

# **Bridge Inspection Report**

## Structure Inventory and Appraisal Sheet (English Units)

	2340	Seal Cracking	3	07/24/2019	21.00	(LF)	0.00	21.00	0.00	0.00
		The asphaltic plug jo	oints exh	ibit partial separatio	ns at joint edges	and isola	ted cracks alon	g the joints (Ph	otos 60-61).	
ΞM		ELEMENT NAME	END/	INCD DATE	OLIANITITY	UNITS	QTY	QTY	QTY	QTY
R		Cuardrail Vahicular	ENV 3	INSP. DATE 07/24/2019	QUANTITY 700.00	(LF)	CS 1 550.00	CS 2	0.00	0.00
335		Guardrail, Vehicular								
5). brid	The ge p	re W-beam steel g Gano Street off-ra parapet that continu between I-195 Westb	amp h ue to	as new W-be the west app	eam steel g oroach (6, 5	juardra 50-54,	ils attache 91). There	d to the	interior fac	es of
	515	Steel Protective Coating	3	07/24/2019	3,150.00	sq.ft	1,800.00	0.00	1,350.00	0.00
		The guardrails are g	alvanize	d. The I-195 approa	ich guardrails hav	e areas o	of light rust (Pho	otos 3, 5).		
	1000	Corrosion	3	07/24/2019	100.00	(LF)	0.00	100.00	0.00	0.00
		The I-195 approach	guardrai	ls have areas of ligh	nt rust (Photos 3,	5).				
	1020	Connection	3	07/24/2019	10.00	(LF)	0.00	10.00	0.00	0.00
		The Gano Street approach guardrail to 88).		•					,	
	7000	Damage	3	07/24/2019	40.00	(LF)	0.00	40.00	0.00	0.00
М		The I-195 approa	•		QUANTITY	UNITS	QTY	QTY	osts at the n	QTY
R 36		Conc Bridge Parapet	3	07/24/2019	700.00	(LF)	CS 1 350.00	CS 2 320.00	30.00	0.00
he t		no Street off-ramp ace (Photos 6, 54, 73) Delamination/Spall/Patched Area		07/24/2019	oncrete brid	ge pai	o.oo	a single i	metal rail a	o.oo
		The parapets exhi 84). The north par x 2" deep spall with	apet at	midspan of Span	#1R has an 8					
		During the rehab crack/seam that would be nothing to	uns ab	out 1"-2" in. Th	ey didn't repla	ce the				
	1090	Exposed Rebar	3	07/24/2019	100.00	(LF)	0.00	70.00	30.00	0.00
		See 1080 Delamina	tion/Spal	I/Patched Area note	es.					
	1130	Cracking (RC and Other)	3	07/24/2019	150.00	(LF)	0.00	150.00	0.00	0.00
		The parapets exhi height x 1/4" wide ver			ne vertical cracl	s (Phote	os 84, 87). T	he north para	apet at Pier #.	2R has a
		EL EMENT NAME					QTY	QTY	QTY	QTY
M R		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	CS 1	CS 2	CS 3	CS 4

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## Rhode Island Department of Transportation

## **Bridge Inspection Report**

## Structure Inventory and Appraisal Sheet (English Units)

There is rip rap along the West Abutment #1R embankment (Photo 222). Above the high water mark there is a level area covered by bituminous concrete pavement and a sloped block revetment to the base of the abutment. The rip rap has random missing stones along the channel embankment and there are several small sinkholes up to 12" deep in the pavement at the top of the slope.

400										
	000 Settle	ment	3	07/24/2019	60.00	sq.ft	0.00	30.00	30.00	0.00
		The rip rap has rar deep in the pavement		ū	•	embank	ment and the	re are several	l small sinkhole	es up to 1
.EM BR	E	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
367	S	Slope Blocks	3	07/24/2019	700.00	sq.ft	595.00	0.00	105.00	0.00
		sloped block r oration between th						•	block prote	ection h
.EM BR	E	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
370	Ste	el Diaphragms	3	07/24/2019	70.00	(EA)	13.00	36.00	17.00	4.00
and in	ntermed	teel diaphragms liate diaphragms n			_	-	#/ labeled	a end diap	onragms at	eacn p
518	5 Steel	Protective Coating	3	07/24/2019	1,800.00	sq.ft	378.00	1,125.00	207.00	90.00
		The end diaphragm			•			roughout (Ph	oto 203). The	intermedi
	34	410 Chalk(Steel Protect Coa	atings)	3 07/24/20	19 900.00	) s	sq.ft 0.00	900.00	0.00	0.00
		See 515	5 - Ste	el Protective Coating	g notes.					
	34					) s	sq.ft 0.00	225.00	207.00	90.00
	34	420 Peel/Bub/Crack(Stl Pro	tect Coa	3 07/24/20	19 522.00	) s	sq.ft 0.00	225.00	207.00	90.00
	34	420 Peel/Bub/Crack(Stl Pro	tect Coa		19 522.00	) s	sq.ft 0.00	225.00	207.00	90.00
100		Peel/Bub/Crack(Stl Prot	tect Coa	3 07/24/20	19 522.00	) s	0.00 0.00	225.00 35.00	207.00	90.00
100		Peel/Bub/Crack(Stl Prot	s exinges	and down to 1/4"	19 522.00 g notes.  55.00  rate to heavy remaining thick	(EA) rust an	0.00 d corrosion t bottom flange	35.00 hroughout with	16.00 n down to 1	4.00 /8" remair
100		See 515  The end diaphragm thickness to top fla	3 as exinges	el Protective Coating 07/24/2019  nibit typical mode and down to 1/4" the bearing stiffene	19 522.00 g notes.  55.00 rate to heavy remaining thick rs and diaphragm	rust an	0.00 d corrosion t bottom flange	35.00 hroughout with	16.00 n down to 1	4.00 /8" remain
100	000 Corro	Sion  The end diaphragm thickness to top fla rust up to 3/8" thick be The intermediate diap	3 as exinges	el Protective Coating 07/24/2019  nibit typical mode and down to 1/4" the bearing stiffene	19 522.00 g notes.  55.00 rate to heavy remaining thick rs and diaphragm	rust an	0.00 d corrosion t bottom flange	35.00 hroughout with	16.00 n down to 1	4.00 /8" remain
	000 Corros	Sion  The end diaphragm thickness to top fla rust up to 3/8" thick be The intermediate diap	3 as extended as e	and down to ¼" the bearing stiffenes have random area 07/24/2019	19 522.00 g notes.  55.00 rate to heavy remaining thick rs and diaphragm as of light rust (Ph	rust an ness to n connect oto 204).	0.00 d corrosion t bottom flange ion plates .	35.00 hroughout with es (Photo 203	16.00 In down to 1 3). There is s	4.00 /8" remain cattered pa
	000 Corros	sion  The end diaphragm thickness to top fla rust up to 3/8" thick be The intermediate diapection  Bay 'E' Diaphragm #	3 as extended as e	and down to ¼" the bearing stiffenes have random area 07/24/2019	19 522.00 g notes.  55.00 rate to heavy remaining thick rs and diaphragm as of light rust (Ph	rust an ness to n connect oto 204).	0.00 d corrosion t bottom flange ion plates .	35.00 hroughout with es (Photo 203	16.00 In down to 1 3). There is s	4.00 /8" remain cattered pa

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#### Rhode Island Department of Transportation

## **Bridge Inspection Report**

#### Structure Inventory and Appraisal Sheet (English Units)

There are reinforced concrete diaphragms for the following elements and locations:

- End diaphragms and a midspan diaphragm for drop-in girders, between corbels and between cantilever girders over piers in Spans #1 through #6 and #8 through #14
- End diaphragms and a midspan diaphragm for I-girders in Spans #14 through #18

- Gano Street off-ramp box girder interior diaphragms and exterior diaphragms below the box girders at the piers

In Span #5, the east end of drop-in Girder 'B' bears on an oversized L-shaped diaphragm/transverse support beam that transfers loads to Girders 'A' and 'C' (Photos 29, 194). The irregular configuration is due to the Gano Street off-ramp connecting to Span #5.

The diaphragms were in varying stages of rehabilitation during the inspection. There are several locations where the diaphragm concrete has been fully removed with only rebar remaining (Photos Scattered formwork remains in place throughout the bridge (Photo 195) and the seismic restrainer assemblies at the deck joints typically have the restrainer rod removed (Photo 97).

The diaphragms exhibit typical scattered hairline map cracks with and without efflorescence and rust staining, hairline to 1/2" wide vertical cracks, random concrete patches, hollow area and spalls with and without exposed and debonded rebar. See photos 194-202 and the attached file "070001 Elem 8371 Defect Table.pdf" for further details.

	1080	Delami	ination/Spall/Patched Area	3	07/24/2019	52.00	each	0.00	0.00	52.00	0.00
			See photos 194-202 a	nd the	attached file "07000	01 Elem 8371 De	fect Table	e.pdf" for further	details.		
	1090	Expose	ed Rebar	3	07/24/2019	12.00	each	0.00	6.00	1.00	5.00
			See photos 194-202 a	nd the	attached file "07000	01 Elem 8371 De	fect Table	e.pdf" for further	details.		
	1120	Efflores	scence/Rust Staining	3	07/24/2019	11.00	each	0.00	6.00	5.00	0.00
			See photos 194-202 a	nd the	attached file "07000	01 Elem 8371 De	fect Table	e.pdf" for further	r details.		
	1130	Crackir	ng (RC and Other)	3	07/24/2019	111.00	each	0.00	56.00	55.00	0.00
			See photos 194-202 a	nd the	attached file "07000	01 Elem 8371 De	fect Table	e.pdf" for further	details.		
ELEM NBR		EL	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8398		Curb/s	sidewalks - Con	1	07/24/2019	700.00	ft	0.00	700.00	0.00	0.00
safe		ılks	oncrete safety v		•	curbs alon	g both	sides of	the Gano	Street off-	ramp. The
	1080		82).	neav	7y accumulation 07/24/2019	on of dirt 698.00	and	debris up	to 12"	deep with	vegetation
	1080			1 exhibit and n	07/24/2019 scattered hairline hinor chipping thro	698.00 cracks and goughout. In Spa	ft eneral so an #3R i	0.00  caling ½" to near Pier #3F	698.00 1" deep (P	0.00 hoto 83). The curb has a 5"	0.00 curbs exhibit wide x 2-1/2"
	1080	Delami	The safety walks e typical rust staining long x 2" deep chip	1 exhibit and n	07/24/2019 scattered hairline hinor chipping thro	698.00 cracks and goughout. In Spa	ft eneral so an #3R i	0.00  caling ½" to near Pier #3F	698.00 1" deep (P	0.00 hoto 83). The curb has a 5"	0.00 curbs exhibit wide x 2-1/2"
		Delami	The safety walks of typical rust staining long x 2" deep chip (Photos 72-73).	exhibit and n	07/24/2019 scattered hairline ninor chipping thro approach curbs a	698.00 cracks and g bughout. In Spa are shifted up f	ft eneral so an #3R i o 3" late	0.00  caling ½" to near Pier #3Ferally with typi	698.00  1" deep (P  3 the south of the thick the south of	0.00 hoto 83). The curb has a 5" to 1" between	0.00  curbs exhibit wide x 2-1/2" curb sections
		Delami	The safety walks etypical rust staining long x 2" deep chip (Photos 72-73).	exhibit and n	07/24/2019 scattered hairline ninor chipping thro approach curbs a	698.00 cracks and g bughout. In Spa are shifted up f	ft eneral so an #3R i o 3" late	0.00  caling ½" to near Pier #3Ferally with typi	698.00  1" deep (P  3 the south of the thick the south of	0.00 hoto 83). The curb has a 5" to 1" between	0.00  curbs exhibit wide x 2-1/2" curb sections

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#### Rhode Island Department of Transportation

# Bridge Inspection Report

#### Structure Inventory and Appraisal Sheet (English Units)

#### **BRIDGE NOTES**

#### Orientation:

The main bridge structure carries I-195 Westbound and consists of eighteen (18) spans labeled Span #1 through #18. The spans are logged west to east with Girder 'A' at the north fascia.

The Gano Street Ramp ties into the main bridge structure at the north side of Span #5 and consists of three (3) spans labeled Span #1R through #3R. The spans are logged west to east with Box Girder Cell 'A' at the south (true west) fascia.

The Seekonk River flows north to south below the structure.

#### Equipment:

60' manlift, 60' bucket boat, Ladder and Air Monitor.

#### Traffic Control:

Lane Closures on Gano Street (Span #1), Water Street (Span #15), Waterfront Drive (Span #16) and Valley Street (Span #18) with local police details. Moving closure on I-195 Westbound with state police details for topside inspection.

#### Access Notes:

- Access to the underside of Span #10 through Span #14 requires access to the CARDI construction yard. Check in with local personnel on site.
- The boat was launched from East Providence Yacht Club dock on Pier Road in East Providence .
- The interior of the Gano Street Ramp box girders was accessed through the hatches at West Abutment #1R with a 24' ladder (Photos 182, 222). The key for the box girder hatches can be obtained from David Cluley at the RIDOT Bridge Inspection office on Jefferson Boulevard.
- The catwalks on the interior portions of Pier #6 and Pier #7 can be accessed through hatches and ladders on the topside of the north overhang (Photos 282 284).
- The electrical utility room in the East Abutment has a locked door (Photos 215, 216, 280). The lock key can be obtained from David Cluley at the RIDOT Bridge Inspection office on Jefferson Boulevard.

#### **INSPECTION NOTES**

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#### Rhode Island Department of Transportation

## **Bridge Inspection Report**

#### Structure Inventory and Appraisal Sheet (English Units)

Routine and Special Inspection by AECOM

Inspection Date: Multiple dates from 06/17/19 to 07/24/19

Team Leader: Staff Inspector:

Weather: 80° - 90° Fahrenheit

#### Special Inspection Requirements:

The special inspection includes the superstructure and substructure.

#### **NBI** Ratings:

The bridge is in overall Poor condition. The condition ratings for the Item 58 – Deck (6 – Satisfactory), Item 59 - Superstructure (6 - Satisfactory) and Item 60 - Substructure (4 - Poor) remain unchanged since the last inspection.

#### **Bridge Construction:**

The bridge was under construction during the time of inspection with ongoing superstructure repairs. There is scaffolding in place throughout the structure allowing access to the drop-in girder ends and corbels (Photos 236 - 238, 247, 255, 256, 288). There is typical construction debris scattered through the scaffolding (Photos 289, 290). There is typical construction wiring in place throughout the bridge (Ph oto 291).

The two (2) right lanes of I-195 Westbound and the Gano Street off ramp were closed during the time of inspection (Photos 7, 42 - 44, 50 - 54). The Taunton Avenue on ramp was also partially closed with a construction area in place at the east approach of the bridge (Photos 1, 4).

For additional inspection notes refer to the attached file "070001 Additional Inspection Notes.pdf".

#### **SCHEDULE NOTES**

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# Rhode Island Department of Transportation

# **Bridge Inspection Report**

Structure Inventory and Appraisal Sheet (English Units)

Equipment  Aerial Lift  Boat  Underbridgeinspvel  Scaffolding  BoesemansChair  Waders  Rail Mount Elliot  Crash Truck  Air Monitor  Ladder  Bucket Truck  Rigging  Floats  Climbing  Rail Mount Bucket Truck  Light Tower	Yacht Club dock on Pier Rd locked hatches at W. Abut. &7 via hatches on the top of	Prep Time Crew Slize Varies Under Insp Vehicle Time Traffic Control Time 4 Mile Post Crew Days 20 Time Report Time Bucket Truck Time  DI construction yard. Launch boat from E. Prov Access Gano St Ramp box girder interiors via #1R with ladder. Access catwalks inside Pier #6 f the north overhang. The elect. room in E. Abut.
Avg Curb Reveal North/East Avg Curb Reveal South/West Posted Weight Limit Posting Sign ? Post Signs Legible Post Sign Rec Adv Min Vert Clear Sign Min Vert Clear Signs Leg Min Vert Clear Post Vales Min Vert Clear Sign Rec Old Rating and Postings RR Mile Post US DOT/AAR No.	2.50 2.50 01 01 -1 01 13'-9" 01	Telephone

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## Rhode Island Department of Transportation

# **Bridge Inspection Report** Structure Inventory and Appraisal Sheet (English Units)

#### **Work Candidaties**

Assigned	tiο	<b>Δgency</b>
Assigned	uo	Agency

Stiatius	Prioritiy	Action	Datie Proposed	Noties
Jnknown	High	Bridge-Rehab	07/28/2015	Bridge rehab projecti in progress
				[Baker – revised per 2018 Special Inspection]
				Repair quantitiy is based on tiotial deffecti quantitiy ffor each
				elementi
				Superstiructiure
				Totial Reinfforced Concretie Closed Box Girde(Elementi105)
				repair quantitiy(844 LF)
				<ul> <li>Totial Stieel Open Girde (Elementi 107) repair quantitiy (643 LF)</li> </ul>
				Totial Prestiressed Concretie Open Girde(Elementi109) repair
				quantitiy(2,810 LF)
				<ul> <li>Totial Reinfforced Concretie Open Gird</li></ul>
				repair quantitiy(1,926 LF)
				<ul> <li>Totial Elastiomeric Bearing Elementi 310) repair quantitiy (265</li> </ul>
				EA)
				Totial Movable Bearing(Elementi311) repair quantitiy(11 EA)
				Totial Fixed Bearing(Elementi313) repair quantitiy(11 EA)
				<ul> <li>Totial Stieel Diaphragm (Elementi8370) repair quantitiy (57 EA)</li> </ul>
				Table Consultin Disabus and Flour and 00771 vancin an artific (10
				Totial Concretie Diaphragm (Elementi 8371) repair quantitiy (18 6 EA)
				ULA)
				Substiructiure
				Totial Reinfforced Concretie Colum(Elementi205) repair
				quantitiy(52 EA)
				Totial Reinfforced Concretie Pier Wa(Elementi210) repair
				quantitiy(485 LF)
				Totial Reinfforced Concretie Abutime (Elementi215) repair
				quantitiy(152 LF)
				Totial Reinfforced Concretie Pier Ca(Elementi234) repair     (235.45)
				quantitiy(335 LF)
				Totial Reinfforced Concretie Retiurn Wallementi8213) repair  Guartitiv(175 LE)
				quantitiy(175 LF)  Totial Backwall(Elementi8218) repair quantitiy(126 LF)
				Totial Riprap(8366) repair quantitiy(60 SF)
				Totial Slope Blocks(8367) repair quantitiy(00 SF)
ssigned tio M	Iunicipalitiy			
Stiatius	Prioritiy	Action	Datie Proposed	Noties
	•		1	
Under	High		07/24/2019	Generatied by user on 10/26/2019
Review		I	1	There are several locations off ponding watier up tib8" deep
				inside tihe box girders RIDOT was infformed abouti tihis issue o

/11/19.

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Reviewer: Alexandra R.

# EXHIBIT 2

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# RIDOT Bridge Inspection Report

## 070001 Washington Bridge North

**AECOM** 

Inspector:

Inspection Date 07/21/2023

Bridge Condition Poor

IDENTIFICATION

Bridge ID: 070001

**NBI Number** Washington Bridge North Structure Name: Washington Bridge North

0.2 Mi W of JCT US 6 Location (9):

Carries (7): I-195 WB Type of Service (42A): 1 Highway

Feature Crossed (6): SEEKONK RIVER 8 Hwy-waterway-RR Type of Service (42B): Placecode (4): East Providence Providence County (3): 44 Rhode Island State (1):

**NBI** Station:

Region (2): District 3 41.8192660 Latitude (16): Longitude (17): -71.3865496

Owner (22): 01 State Highway Agency Custodian (21): 01 State Highway Agency

1969 Year Built (27):

Year Recon (106): 1998 Historical (37): 5 Not eligible for NRHF

Border State: Not Applicable (P)

Border Number: % Responsibility: INSPECTION

Date of Routine Inspection (90): 7/21/2023 24 Frequency (91):

Inspected By

Next Inspection: 7/21/2025

Inspection Type	Freq (92)	Last Insp (93)	Next Insp
Element	12	7/21/2023	7/21/2024
Fracture Critical (A)	545.53	1/1/1901	1/1/1901
Underwater (B)	48	7/23/2021	7/23/2025
Special Insp (C)	12	7/21/2023	7/21/2024

#### LOAD RATING AND POSTING

Posting Status (41) A Open, no restriction Posting % (70): 5 At/Above Legal Loads

Rating Date: 1/19/2018

Design Load (31): 6 MS18(HS20)+mod 8 LRFR (HL93) Opr Method (63): Opr Rating (64): 52.00 Tons Inv Method (65): 8 LRFR (HL93) 40.00 Tons Inv Rating (66):

#### **DECK GEOMETRY**

Deck Geometry (68): 4 Tolerable Deck Area: 145,531.80

Deck Type (107): 1 Concrete-Cast-in-Place

Wearing Surface (108A): 6 Bituminous 2 Preformed Fabric Membrane (108B):

Deck Protection (108C): 8 Unknown 76.44 O. to O. Width (52): Curb / Sidewalk Width L (50A): 0.00 Curb / Sidewalk Width R (50B): 0.00 Median (33): 0 No median 2007 2009 2011 2013 2015 2016 2017 2018 2019 2020 2021 2022

#### DECK CONDITION

Deck Rating (58): 6 Satisfactory Bridge Rail (36A): 1 Meets Standards Transition (36B): 0 Substandard Approach Rail (36C): 0 Substandard Approach Rail Ends (36D): 0 Substandard

#### SUPERSTRUCTURE GEOMETRY

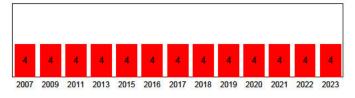
# of Main Spans (45): # of Approach Spans (46): 20 Main Material (43 A): 3 Steel

Main Design (43 B): 02 Stringer/Girder

Max Span Length (48): 130.60 Structure Length (49): 1,903.87 NBIS Length (112): Long Enough Temp Structure (103): Not Applicable (P)

Skew (34):

Structure Flared (35): 1 Yes, flared Parallel Structure (101): Left of || bridge Approach Alignment (72): 6 Equal Min Criteria



#### SUPERSTRUCTURE CONDITION

4 Poor Superstructure Rating (59):

4 Minimum Tolerable Structure Evaluation (67):

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# RIDOT Bridge Inspection Report

## 070001 Washington Bridge North

Inspector:

07/21/2023 Inspection Date

**AECOM** 

Bridge Condition Poor

SUBSTRUCTURE GEOMETRY

Navigation Control (38): Permit Not Required Nav Vert Clearance (39): 137.78

Nav Horiz Clearance (40): 327.22

Pier Protection (111): 2 In-Place, Functioning

Lift Bridge Vertical Clearance (116):

Scour Rating (113): 4 Stable, needs action

7 Above Minimum Waterway Adequacy (71):

2015 2016 2017 2018 2019 2020 2007 2009 2011 2013 2021

SUBSTRUCTURE CONDITION Substructure Rating (60): 6 Satisfactory

Inspected By

6 Bank Slumping Channel Rating (61):

1ST ROUTE UNDER: Gano Street

ROADWAY LOCATION

Pos Prefix (5A): 1st Route Under Kind of Hwy (5B): 5 City Street

Route Num (5D): LRS Route (13A/B):

Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B): 2

Detour Length (19): 1.00 mi (1.61 km) ROADWAY CLASSIFICATION

Funct Class (26): 17 Urban Collector Level Service (5C): 1 Mainline NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy Toll Facility (20): 3 On free road

ADT (29): 80,500 Cars/Day Pct Trucks (109): 19.00%

ADT Year (30): 2021 **CLEARANCES** 

Vertical (10): 14.83 Min Vert Over (53): 18.33 14.17

Vert Ref (54A): H Hwy beneath struct Horizontal (47): 82.50

Min Lat Left (56): 0.00 Min Lat Right (55B): 6.00

Horiz Ref (55A): H Hwy beneath struct

4 Tolerable Underclearance (69):

2ND ROUTE UNDER: Water Street

ROADWAY LOCATION

Pos Prefix (5A): 2nd Route Under Kind of Hwy (5B): 5 City Street

Route Num (5D):

LRS Route (13A/B): Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B):

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 19 Urban Local Level Service (5C): 2 Alternate NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy Toll Facility (20): 3 On free road

ADT (29): 80,500 Cars/Day 19.00%

Pct Trucks (109): ADT Year (30): 2021 **CLEARANCES** 

Vertical (10): 25.00 Min Vert Over (53):

18.33 14.17 H Hwy beneath struct

Vert Ref (54A): Horizontal (47):

40.60 Min Lat Left (56): 0.00 Min Lat Right (55B): 6.00

Horiz Ref (55A): H Hwy beneath struct

Underclearance (69): 4 Tolerable

3RD ROUTE UNDER: Waterfront Drive

ROADWAY LOCATION

3rd Route Under Pos Prefix (5A): Kind of Hwy (5B): 5 City Street

Route Num (5D): 0 LRS Route (13A/B):

Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B):

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 19 Urban Local Level Service (5C): 2 Alternate NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy

Toll Facility (20): 3 On free road ADT (29): 80,500 Cars/Day

Pct Trucks (109): 19.00% ADT Year (30): 2021

**CLEARANCES** 

Vertical (10): 21.00

Min Vert Over (53): 18.33 14.17

Vert Ref (54A): H Hwy beneath struct

Horizontal (47): 43.30 Min Lat Left (56): 0.00 Min Lat Right (55B): 6.00

Horiz Ref (55A): H Hwy beneath struct

Underclearance (69): 4 Tolerable

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Driven to get you there

Detour Length (19):

0.30 mi (0.48 km)

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Reviewer: Alexandra R

# RIDOT Bridge Inspection Report

070001 Washington Bridge North

Inspected By AECOM

Inspector:

Underclearance (69): 4 Tolerable

Inspection Date

07/21/2023

**Bridge Condition Poor** 

ADT Year (30):

Poor

4TH ROUTE UNDER: Valley Street **ROADWAY LOCATION ROADWAY CLASSIFICATION CLEARANCES** Pos Prefix (5A): 4th Route Under Funct Class (26): Vertical (10): 19 Urban Local 14.17 Kind of Hwy (5B): Min Vert Over (53): 5 City Street Level Service (5C): 2 Alternate 18.33 14.17 Route Num (5D): Vert Ref (54A): H Hwy beneath struct 0 NHS (104): 0 Not on NHS LRS Route (13A/B): 0 Not a STRAHNET hwy Horizontal (47): Defense Hwy (100): 35.40 Milepost (11): Toll Facility (20): 3 On free road Min Lat Left (56): 0.00 Suffix (5E): 0 N/A (NBI) ADT (29): 80,500 Cars/Day Min Lat Right (55B): 6.00 Lanes Under (28B): H Hwy beneath struct Pct Trucks (109): 19.00% Horiz Ref (55A):

ROUTE ON STRUCTURE: I-195 WB **ROADWAY LOCATION ROADWAY CLASSIFICATION CLEARANCES** Pos Prefix (5A): Route On Structure Funct Class (26): Vertical (10): 11 Urban Interstate 99.99 Kind of Hwy (5B): 1 Interstate Hwy Level Service (5C): Min Vert Over (53): 1 Mainline 18.33 14.17 Route Num (5D): 1 On the NHS Vert Ref (54A): H Hwy beneath struct 00195 NHS (104): LRS Route (13A/B): 1 On Interstate STRAHNET Horizontal (47): Defense Hwy (100): 6700-A/00 59.71 Milepost (11): 3 On free road Min Lat Left (56): 2.60 mi (4.19 km) Toll Facility (20): 0.00 Suffix (5E): ADT (29): 80,500 Cars/Day Min Lat Right (55B): 4 West 6.00 Lanes On (28A): H Hwy beneath struct 5 Pct Trucks (109): 19.00% Horiz Ref (55A): Underclearance (69): 4 Tolerable Detour Length (19): 2.00 mi (3.22 km) ADT Year (30): 2021

2021

#### **BRIDGE NOTES**

ORIENTATION: The main bridge structure carries I-195 Westbound and consists of eighteen spans labeled Span 1 through 18 from west to east (photos 6 - 11). Spans 1 through 6 and 8 through 14 consist of prestressed concrete beams and reinforced concrete fascia arches (photos 14-17, 23-25 & 27-29). The beams are labeled A through F from north to south. Span 7 consists of eleven steel plate girders labeled A through K from north to south (photo 26). Spans 15 through 18 consist of prestressed concrete I-girders labeled A up to S from north to south (photos 18-21, 30 & 31). The Gano Street Off-Ramp ties into the main bridge structure at the north side of Span 5 and consists of three box girder spans labeled Span 1R through 3R and a portion of Span 5 (photos 6, 7, 22 & 32 - 34). The spans are logged west to east with Box Girder Cell A at the south (true west) fascia. The Seekonk River flows north to south below the structure.

EQUIPMENT USED: The bridge was inspected using a 60' manlift, 80' manlift on & off the barge, ladder and air monitor.

TRAFFIC CONTROL: Single lane closures on Gano Street (Span 1), Water Street (Span 15), Waterfront Street (Span 16) and Valley Street (Span 18) with a truck mounted attenuator and local police details.

#### ACCESS NOTES:

- Access to the underside of Spans 10 through 14 require access to the AETNA construction yard below the bridge (photo 89). Check in with local personnel on site.
- The manlift/barge was launched from the Moran Environmental Recovery dock on Water Street in East Providence.
- The interior of the Gano Street Ramp box girders was accessed through the Cell 'B' hatch at West Abutment 1R with a 24' ladder. The key for the box girder hatches can be obtained from Christopher Hart (401-265-0604) at the RIDOT Maintenance Headquarters in Warwick, RI. The Cell 'A' access hatch is frozen, and the Cell 'C' access hatch is covered with plywood (photo 246).
- The catwalks on the interior portions of Pier 6 and Pier 7 can be accessed through hatches and ladders on the topside of the north overhang from a right lane closure (photos 72 & 290).
- The electrical utility room in the East Abutment #2 has a locked door (photo 289). The lock key can be obtained from Christopher Hart (401-265-0604) at the RIDOT Maintenance Headquarters in Warwick, RI.
- During this inspection, there was an ongoing construction project in progress. See Inspection Notes for further details.

Submitted: 10/31/2024 9:38 AM

#### RIDOT Bridge Envelope: 4861673 Reviewer: Alexandra Inspection Report

070001 Washington Bridge North

Inspected By **AECOM** 

Inspector: Inspection Date

07/21/2023

**Bridge Condition Poor** 

#### INSPECTION NOTES

Inspection Date: 6/19/2023 to 7/21/2023 (Routine Inspection) Inspected by: AECOM

Weather: 70 - 95 degrees Fahrenheit

NBI RATING: The NBI ratings for the Deck (Item 58), Superstructure (Item 59), and Substructure (Item 60) are 6 -Satisfactory, 4 - Poor, and 6 - Satisfactory, respectively and have not changed.

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

#### MINIMUM VERTCIAL CLEARANCES:

- Span 1 over Gano Street: 15'-1" at the east curb below the north arch. Vertical clearance sign of 14'-10" has been installed at the south approach of Gano Street at the east sidewalk (photos 13 and 14).
- Span 15 over Water Street: Greater than 25'-0" at all locations. No vertical clearance signs (photos 18 and 19).
- Span 16 over Waterfront Drive: 21'-0" at the east curb below Girder N. No vertical clearance signs.
- Span 18 over Valley Street: 14'-2" at the east shoulder line below Girder R. Vertical clearance signs of 13'-9" are posted on both fascia girders (photos 20 and 21).

CONSTRUCTION NOTES: The bridge was under rehabilitation at the time of inspection. The rehabilitation of the bridge includes concrete repairs to the deck, superstructure and substructure elements. There is scaffolding in place throughout the structure primarily over the water spans allowing access to the drop-in girder ends and corbels (Photos 24, 25, and 27). There is construction debris and severe pigeon debris scattered throughout the scaffolding which restricts access to numerous locations (Photos 212-214 and 293 - 298). Span 13 could not be accessed at the time of inspection due to construction equipment and soil stockpile mound (Photos 17 and 272). There is a water hose anchored to the deck underside in the south most bay of Spans 10 through 15 (Photos 28-30). The topside of the bridge was under construction at the time of the inspection. I-95 Westbound had one (1) lane closed for construction and four (4) lanes open to traffic (Photos 8 & 35-51). The Gano Street ramp had closed construction zone along the south shoulder and one (1) lane open to traffic (Photos 4, 6 & 52-53). The topside was accessed via an opening in the deck from the scaffolding in Span #10 (Photo 88).

For additional inspection notes refer to the attached file "070001 Additional Inspection Notes.pdf".

Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
12/3	Re Concrete Deck	142,889.0	94%	134,222.00	5%	7,319.00	1%	1,348.00	0%	0.00
510/3	Wearing Surfaces	142,889.00	94%	134,317.00	5%	7,144.00	1%	1,428.00	0%	0.00
3210/3	DevSpaNPatchvPot(Wear Surf)	4,286.00	0%	0.00	83%	3,572.00	17%	714.00	0%	0.00
3220/3	Crack (Wearing Surface)	4,286.00	0%	0.00	83%	3,572.00	17%	714.00	0%	0.00
1080/3	Delamination/Spail/Patched Area	2,143.00	0%	0.00	88%	1,886.00	12%	257.00	0%	0.00
1090/3	Exposed Rebar	2,143.00	3%	60.00	81%	1,726.00	17%	357.00	0%	0.00
1120/3	Efflorescence/Rust Staining	2,183.00	0%	0.00	83%	1,806.00	17%	377.00	0%	0.00
1130/3	Cracking (RC and Other)	2,258.00	0%	0.00	84%	1,901.00	16%	357.00	0%	0.00
16/3	Re Conc Top Flange	7,336.00	80%	5,878.00	16%	1,168.00	4%	290.00	0%	0.00
510/3	Wearing Surfaces	7,336.00	100%	7,336.00	0%	0.00	0%	0.00	0%	0.00
1080/3	Delamination/Spail/Patched Area	218.00	0%	0.00	100%	218.00	0%	0.00	0%	0.00
1090/3	Exposed Rebar	40.00	0%	0.00	0%	0.00	100%	40.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1,000.00	0%	0.00	75%	750.00	25%	250.00	0%	0.00
1130/3	Cracking (RC and Other)	200.00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
105/3	Re CIsd Box Girder	922.00	8%	77.00	55%	506.00	37%	339.00	0%	0.00
1080/3	Delamination/Spail/Patched Area	100.00	0%	0.00	80%	80.00	20%	20.00	0%	0.00
1090/3	Exposed Rebar	6.00	0%	0.00	17%	1.00	83%	5.00	0%	0.00
1120/3	Efflorescence/Rust Staining	244.00	0%	0.00	50%	122.00	50%	122.00	0%	0.00
1130/3	Cracking (RC and Other)	495.00	0%	0.00	61%	303.00	39%	192.00	0%	0.00

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R Driven to get you there

# **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By **AECOM** 

Inspector:

Inspection Date **Bridge Condition Poor** 

07/21/2023

Driven to g	Bri	dge Condi	ition P	oor		Ins	pection D	ate	07/	21/2023
Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
107/3	Steel Opn Girder/Beam	1,320.00	60%	787.00	38%	496.00	3%	37.00	0%	0.00
515/3	Steel Protective Coating	19,385.00	38%	7,350.00	32%	6,300.00	30%	5,735.00	0%	0.00
3410/3	Chalk(Steel Protect Coatings)	6,300.00	0%	0.00	100%	6,300.00	0%	0.00	0%	0.0
3420/3	Peel/Bub/Crack(Stl Protect Coat)	5,735.00	0%	0.00	0%	0.00	100%	5,735.00	0%	0.0
1000/3	Corrosion	390.00	0%	0.00	91%	353.00	9%	37.00	0%	0.00
1900/3	Distortion	143.00	0%	0.00	100%	143.00	0%	0.00	0%	0.00
109/3	Pre Opn Conc Girder/Beam	14,543.00	80%	11,647.00	10%	1,397.00	10%	1,394.00	1%	105.00
521/3	Conc Prot Coating	5,000.00	85%	4,250.00	0%	0.00	8%	375.00	8%	375.00
3510/3	Wear (Concrete Protect Coat)	750.00	0%	0.00	0%	0.00	50%	375.00	50%	375.0
1080/3	Delamination/Spall/Patched Area	1,246.00	0%	0.00	80%	994.00	20%	252.00	0%	0.00
1090/3	Exposed Rebar	189.00	16%	30.00	10%	19.00	21%	40.00	53%	100.00
1100/3	Exposed Prestressing	25.00	60%	15.00	0%	0.00	20%	5.00	20%	5.00
1110/3	Cracking (PSC)	748.00	0%	0.00	2%	16.00	98%	732.00	0%	0.00
1120/3	Efflorescence/Rust Staining	730.00	0%	0.00	50%	365.00	50%	365.00	0%	0.00
7000/3	Damage	3.00	0%	0.00	100%	3.00	0%	0.00	0%	0.00
8368/3	Graffiti	200.00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
110/3	Re Conc Opn Girder/Beam	2.880.00	20%	579.00	52%	1,486.00	27%	770.00	2%	45.00
521/3	Conc Prot Coating	14,800.00	100%	14,800.00	0%	0.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	830.00	0%	0.00	76%	630.00	24%	200.00	0%	0.00
1090/3	Exposed Rebar	103.00	0%	0.00	17%	18.00	49%	50.00	34%	35.00
1120/3	Efflorescence/Rust Staining	450.00	0%	0.00	67%	300.00	33%	150.00	0%	0.00
1130/3	Cracking (RC and Other)	918.00	0%	0.00	59%	538.00	40%	370.00	1%	10.00
205/3	Re Conc Column	92.00	33%	30.00	26%	24.00	41%	38.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	48.00	0%	0.00	44%	21.00	56%	27.00	0%	0.00
1120/3	Efflorescence/Rust Staining	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
1130/3	Cracking (RC and Other)	9.00	0%	0.00	33%	3.00	67%	6.00	0%	0.00
8368/3	Graffiti	300.00	0%	0.00	100%	300.00	0%	0.00	0%	0.00
210/3	Re Conc Pier Wall	1.151.00	50%	571.00	32%	367.00	19%	213.00	0%	0.00
521/3	Conc Prot Coating	25,200.00	100%	25,200.00	0%	0.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	200.00	0%	0.00	49%	97.00	52%	103.00	0%	0.00
1120/3	Efflorescence/Rust Staining	80.00	0%	0.00	50%	40.00	50%	40.00	0%	0.00
1130/3	Cracking (RC and Other)		0%	0.00	62%	115.00	38%	70.00	0%	0.00
6000/3	Scour	115.00	0%	0.00	100%	115.00	0%	0.00	0%	0.00
8368/3	Graffiti	400.00	0%	0.00	100%	400.00	0%	0.00	0%	0.00
215/3	Re Conc Abutment	230.00	23%	54.00	29%	67.00	47%	109.00	0%	0.00
521/3	Conc Prot Coating	2,300.00	100%	2,300.00	0%	0.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	127.00	0%	0.00	41%	52.00	59%	75.00	0%	0.00
1120/3	Efflorescence/Rust Staining	30.00	0%	0.00	50%	15.00	50%	15.00	0%	0.00
1130/3	Cracking (RC and Other)	19.00	0%	0.00	0%	0.00	100%	19.00	0%	0.00
8368/3	Graffiti	50.00	0%	0.00	100%	50.00	0%	0.00	0%	0.00
220/3	Re Conc Pile Cap/Ftg		100%	1,146.00	0%	1.00	0%	4.00	0%	0.00
1130/3	Cracking (RC and Other)	1,151.00	PERMITTANA I		treates: 1	10000	120000	Total Control of the	200000	1-10-74-0-0-00 1-14-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
6000/3	Scour	1.00	0%	0.00	100%	1.00	100%	0.00	0%	0.00
234/3		4.00	0%	0.00	0%	0.00	100%	4.00	0%	0.00
1080/3	Re Conc Pier Cap  Delamination/Spall/Patched Area	388.00	0%	0.00	93%	362.00	7%	26.00	0%	0.00
1090/3	Exposed Rebar	325.00	0%	0.00	94%	307.00	6%	18.00	0%	0.00
	Total Control of Control	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	15.00	0%	0.00	47%	7.00	53%	8.00	0%	0.00
1130/3	Cracking (RC and Other)	47.00	0%	0.00	100%	47.00	0%	0.00	0%	0.00

Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R.

# **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By **AECOM** 

Inspector:

	Brid	dge Condi	tion Po	oor	17.1	ins	pection D	ate	07/	21/2023
Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St.
300/3	Strip Seal Exp Joint	93.00	73%	68.00	22%	20.00	5%	5.00	0%	0.00
2310/3	Leakage	5.00	0%	0.00	100%	5.00	0%	0.00	0%	0.00
2330/3	Seal Damage	10.00	0%	0.00	100%	10.00	0%	0.00	0%	0.00
2350/3	Debris Impaction	5.00	0%	0.00	100%	5.00	0%	0.00	0%	0.00
2370/3	Metal Deterioration or Damage	5.00	0%	0.00	0%	0.00	100%	5.00	0%	0.00
301/3	Pourable Joint Seal	1,151.00	44%	507.00	47%	544.00	7%	85.00	1%	15.00
2310/3	Leakage	344.00	0%	0.00	100%	344.00	0%	0.00	0%	0.00
2320/3	Seal Adhesion	300.00	0%	0.00	67%	200.00	28%	85.00	5%	15.00
310/3	Elastomeric Bearing	401.00	34%	136.00	47%	190.00	19%	75.00	0%	0.00
2220/3	Alignment	4.00	0%	0.00	0%	0.00	100%	4.00	0%	0.00
2230/3	Bulging, Splitting or Tearing	200.00	0%	0.00	75%	150.00	25%	50.00	0%	0.00
2240/3	Loss of Bearing Area	61.00	0%	0.00	66%	40.00	34%	21.00	0%	0.00
311/3	Moveable Bearing	11.00	9%	1.00	64%	7.00	27%	3.00	0%	0.00
515/3	Steel Protective Coating	132.00	0%	0.00	0%	0.00	33%	44.00	67%	88.00
3420/3	Peel/Bub/Crack(Stl Protect Coat)	132.00	0%	0.00	0%	0.00	33%	44.00	67%	88
1000/3	Corrosion					V-047-04			1,220,120,1	
2220/3	STATE OF THE PARTY	9.00	0%	0.00	78%	7.00	22%	2.00	0%	0.00
	Alignment	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
2240/3	Loss of Bearing Area	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00
313/3	Fixed Bearing	11.00	0%	0.00	73%	8.00	27%	3.00	0%	0.00
515/3	Steel Protective Coating	110.00	0%	0.00	0%	0.00	60%	66.00	40%	44.00
3420/3	Peel/Bub/Crack(Stl Protect Coat)	110.00	0%	0.00	0%	0.00	60%	66.00	40%	4
1000/3	Corrosion	11.00	0%	0.00	73%	8.00	27%	3.00	0%	0.00
321/3	Re Conc Approach Slab	2,352.00	0%	0.00	100%	2,352.00	0%	0.00	0%	0.00
510/3	Wearing Surfaces	2,352.00	57%	1,352.00	21%	500.00	21%	500.00	0%	0.00
3220/3	Crack (Wearing Surface)	2,352.00	57%	1,352.00	21%	500.00	21%	500.00	0%	(
331/3	Re Conc Bridge Railing	4,108.00	90%	3,693.00	10%	411.00	0%	4.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	10.00	0%	0.00	100%	10.00	0%	0.00	0%	0.00
1090/3	Exposed Rebar	3.00	0%	0.00	0%	0.00	100%	3.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
1130/3	Cracking (RC and Other)	351.00	0%	0.00	100%	351.00	0%	0.00	0%	0.00
7000/3	Damage	50.00	0%	0.00	100%	50.00	0%	0.00	0%	0.00
8060/3	Scupper	27.00	0%	0.00	11%	3.00	74%	20.00	15%	4.00
1000/3	Corrosion	4.00	0%	0.00	0%	0.00	0%	0.00	100%	4.00
8107/3	Steel Opn Girder/Beam END	110.00	0%	0.00	0%	0.00	100%	110.00	0%	0.00
515/3	Steel Protective Coating	1,615.00	0%	0.00	0%	0.00	38%	615.00	62%	1,000.0
3420/3	Peel/Bub/Crack(Stl Protect Coat)	1,615.00	0%	0.00	0%	0.00	38%	615.00	62%	1,000
1000/3	Corrosion		0%	_				110.00	0%	- A
8213/3		110.00	- Parameter S	0.00	0%	0.00	100%	The State of Co.	2000000	0.00
Extraction	R/C Return Wall	175.00	0%	0.00	86%	150.00	14%	25.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	44.00	0%	0.00	100%	44.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	110.00	0%	0.00	77%	85.00	23%	25.00	0%	0.00
1130/3	Cracking (RC and Other)	21.00	0%	0.00	100%	21.00	0%	0.00	0%	0.00
8368/3	Graffiti	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
8218/3	Backwall, All Types	230.00	45%	104.00	35%	80.00	20%	46.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	80.00	0%	0.00	88%	70.00	13%	10.00	0%	0.00
1120/3	Efflorescence/Rust Staining	23.00	0%	0.00	43%	10.00	57%	13.00	0%	0.00
1130/3	Cracking (RC and Other)	23.00	0%	0.00	0%	0.00	100%	23.00	0%	0.00
8305/3	Asphaltic Joint Material	1,438.00	69%	987.00	31%	451.00	0%	0.00	0%	0.00
2310/3	Leakage	430.00	0%	0.00	100%	430.00	0%	0.00	0%	0.00

Filed in Providence/Bristol County Superior Court

Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R

# RIDOT Bridge Inspection Report

**Bridge Condition Poor** 

070001 Washington Bridge North

Inspected By **AECOM** 

Inspector:

Inspection Date

07/21/2023

Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
2340/3	Seal Cracking	21.00	0%	0.00	100%	21.00	0%	0.00	0%	0.00
8335/3	Guardrail, Vehicular	700.00	99%	690.00	1%	10.00	0%	0.00	0%	0.00
515/3	Steel Protective Coating	3,150.00	100%	3,150.00	0%	0.00	0%	0.00	0%	0.00
1020/3	Connection	10.00	0%	0.00	100%	10.00	0%	0.00	0%	0.00
8336/3	Conc Bridge Parapet	350.00	21%	75.00	70%	245.00	9%	30.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
1090/3	Exposed Rebar	100.00	0%	0.00	70%	70.00	30%	30.00	0%	0.00
1130/3	Cracking (RC and Other)	75.00	0%	0.00	100%	75.00	0%	0.00	0%	0.00
8366/3	Rip Rap	1,000.00	94%	940.00	3%	30.00	3%	30.00	0%	0.00
4000/3	Settlement	60.00	0%	0.00	50%	30.00	50%	30.00	0%	0.00
8367/3	Slope Blocks	700.00	85%	595.00	0%	0.00	15%	105.00	0%	0.00
8370/3	Steel Diaphragms	70.00	19%	13.00	51%	36.00	24%	17.00	6%	4.00
515/3	Steel Protective Coating	1,800.00	21%	378.00	63%	1,125.00	12%	207.00	5%	90.00
3410/3	Chalk(Steel Protect Coatings)	900.00	0%	0.00	100%	900.00	0%	0.00	0%	0.00
3420/3	Peel/Bub/Crack(Stl Protect Coat)	522.00	0%	0.00	43%	225.00	40%	207.00	17%	90.00
1000/3	Corrosion	55.00	0%	0.00	64%	35.00	29%	16.00	7%	4.00
1020/3	Connection	2.00	0%	0.00	50%	1.00	50%	1.00	0%	0.00
8371/3	Conc Diaphragms	221.00	3%	6.00	39%	86.00	58%	129.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	74.00	0%	0.00	8%	6.00	92%	68.00	0%	0.00
1090/3	Exposed Rebar	13.00	46%	6.00	46%	6.00	8%	1.00	0%	0.00
1120/3	Efflorescence/Rust Staining	11.00	0%	0.00	55%	6.00	45%	5.00	0%	0.00
1130/3	Cracking (RC and Other)	123.00	0%	0.00	55%	68.00	45%	55.00	0%	0.00
8368/3	Graffiti	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
8398/3	Curb/sidewalks - Con	350.00	0%	0.00	100%	350.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	348.00	0%	0.00	100%	348.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00

#### **ELEMENT NOTES**

ELEM	<b>ELEMENT NAME</b>	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
12	Re Concrete Deck	3	142,889.00	sq.ft	134,222.00	7,319.00	1,348.00	0.00

There is a reinforced concrete deck in Spans 1 through 18 (photos 23-31). The top of the deck has a bituminous concrete wearing surface/overlay which was under construction at the time of the inspection (see "Inspection Notes" and photos 35-51). The deck including new link slab construction at the deck joints was in varying stages of re-construction during the inspection (photos 54, 78, 79). Formwork and scaffolding remains in place throughout the bridge and the seismic restrainer assemblies at the deck joints in Spans 1 through 6 and 8 through 14 typically have the restrainer rod removed (photo 24, 25, 27, 87, 91, 112, 131, 142, 144, 147, 169, 172, 176, 212-214, 216, 226, 263, 265, 268-270). The underside of the deck exhibits areas of exposed rebar chairs throughout, areas of rust staining and efflorescence, random hairline cracking, random areas of damp concrete, random delaminations, isolated spalls, and active leakage in the construction areas at the deck joints. The areas immediately surrounding drainpipes exhibit heavy rust staining and efflorescence with intermittent hollow areas. The overhangs exhibit typical hairline transverse cracks with efflorescence and stalactites (photo 75). See the attached file "070001 Elem 12 Defect Table.pdf" and Photos 74-95 for further details.

510 **Wearing Surfaces** 142,889.00 sq.ft 134,317.00 7,144.00 1,428.00 0.00

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Envelope: 4861673 Reviewer: Alexandra R

# **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By **AECOM** 

Inspector:

#### **Bridge Condition Poor**

Inspection Date

07/21/2023

The older areas of the bituminous concrete wearing surface/overlay on the bridge exhibits minor sand and debris accumulation on the shoulders, minor to moderate wheel line rutting, random sealed and unsealed longitudinal and transverse cracks, scattered patches and depressed pavement with minor potholes, and random locations of raveling along deck joint edges (photos 45-51).

ELI	EM ELEMENT NA	ME EN	V QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
3.	210 Del/Spall/Patch/Patc	ninor potholes pical raveling o	or depressed are	eas up to 1'-0		3,572.00 ches in the wearing op in the pavement a	714.00 along	0.00
ELI	EM ELEMENT NA	ME EN	V QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
3.	There are isolated I the gore area in Spacettered throughout	ocations of sea ans 15 through	•		•	3,572.00 , in the shoulders an unsealed transverse		0.00
080	Delamination/Spall/Patche See the attached file "(		2,143.00 2 Defect Table. <sub> </sub>	sq.ft pdf" for furth	0.00 er details.	1,886.00	257.00	0.00
090	Exposed Rebar See the attached file "C	3 070001 Elem 1	2,143.00 2 Defect Table.	sq.ft odf" for furth	60 00 er details.	1,726.00	357.00	0.00
120	Efflorescence/Rust Stainin Bay 'C' of the drop-in s rust staining at abando	pans where pr	•	rod drilled he	ole locations.	1,806.00 has typical	377.00	0.00
	See the attached file "(	70001 Elem 1	2 Defect Table.	odf" for furth	er details.			
130	See the attached file "C Cracking (RC and Other) See the attached file "C	3	2,258.00	sq.ft	0.00	1,901.00	357.00	0.00
130 LEM	Cracking (RC and Other)	3	2,258.00	sq.ft	0.00	1,901.00 QTY CS 2	357.00 QTY CS 3	0.00 QTY CS 4

This element represents the top flanges of the reinforced concrete box girders in Spans 1R, 2R, 3R and 5 of the Gano Street off-ramp. The top of the top flanges has a bituminous concrete wearing surface/overlay. The underside of the top flanges exhibit typical transverse hairline cracks up to full width with efflorescence and rust, scattered areas of map hairline cracks with efflorescence, isolated delaminations and spalls. There are ongoing repairs with formwork left in place. See photos 187 through 204 and the attached file "070001 Elem 16 Defect Table.pdf" for further details.

	-and-o-pair to tallation a							
510	Wearing Surfaces	3	7,336.00	sq.ft	7,336.00	0.00	0.00	0.00
	The wearing surface 2'-0" of the wearing s					South		
1080	Delamination/Spall/Patc	hed Are3	218.00	sq.ft	0.00	218.00	0.00	0.00
	See photos 189, 194 Defect Table.pdf" for		ıgh 202, 204 and	the attached	d file "070001 Ele	m 16		
1090	Exposed Rebar	3	40.00	sq.ft	0.00	0.00	40.00	0.00

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Reviewer: Alexandra R

# RIDOT Bridge Inspection Report

070001 Washington Bridge North

Inspected By AECOM

Inspector:

## **Bridge Condition Poor**

Inspection Date

07/21/2023

	See photos 189, 202 ar	nd 204 and t	he attached file "	'070001 Eler	n 16 Defect Tab	le.pdf" for		
	further details.							
1120	Efflorescence/Rust Staining	3	1,000.00	sq.ft	0.00	750.00	250.00	0.00
	See photos 189, 190, 1 Table.pdf" for further de		ugh 202 and the	attached file	e "070001 Elem	16 Defect		
1130	Cracking (RC and Other)	3	200.00	sq.ft	0.00	200.00	0.00	0.00
	See photos 187 through further details.	n 204 and th	e attached file "0	70001 Elem	16 Defect Table	e.pdf" for		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
105	Re Clsd Box Girder	3	922.00	ft	77.00	506.00	339.00	0.00

There are reinforced concrete three-cell box girders in Spans 1R, 2R, 3R and Span 5 which carry the Gano Street off-ramp (photos 32-34). The box girder cells are labeled A through C from south to north to maintain the same orientation as the main bridge structure. Span bays are numbered 1 through 3 from west to east. The seismic restrainer assemblies and cables at Pier 2R exhibit typical rust with light corrosion (photos 197, 202). The interior webs exhibit typical full height vertical/diagonal hairline cracks, both sealed and unsealed. There are numerous gauges in place to monitor crack movement, with no movement detected during this inspection. There is typical ponding water up to 7" deep at Pier 2R due to clogged drain holes (photos 190, 191, and 202). The undersides of the bottom flanges exhibit random repair patches, scattered transverse hairline cracks with efflorescence and rust staining and isolated delaminations and spalls. Scaffolding remains on south face (photos 22, 34 and 117). See photos 181 through 204 and the attached files "070001 Elem 105 Defect 1130 Interior Table.pdf", "070001 Elem 105 Defect Interior Table.pdf" and "070001 Elem 105 Underside Exterior Sketches.pdf" for further details.

1080	Delamination/Spall/Patche	d Are3	100.00	ft	0.00	80 00	20.00	0.00
	See photos 181 - 186, Defect 1130 Interior Tak Elem 105 Underside Ex	ole.pdf", "070	0001 Elem 105 D	efect Interio				
1090	Exposed Rebar	3	6.00	ft	0.00	1.00	5.00	0.00
	See photos 183, 189, 2 Interior Table.pdf", "070 Underside Exterior Ske	001 Elem 10	5 Defect Interior					
1120	Efflorescence/Rust Staining	g 3	244.00	ft	0.00	122.00	122.00	0.00
	See photos 181, 182, 1 Defect 1130 Interior Tak Elem 105 Underside Ex	ole.pdf", "070	0001 Elem 105 D	efect Interio				
1130	Cracking (RC and Other)	3	495.00	ft	0.00	303.00	192.00	0.00
	See photos 181, 184, 1 "070001 Elem 105 Defe Table.pdf" and "070001	ect 1130 Inte	rior Table.pdf", "(	70001 Eler	n 105 Defect Inte	erior		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
107	Steel Opn Girder/Beam	3	1,320.00	ft	787.00	496.00	37.00	0.00

There are eleven steel plate girders in Span 7 spanning between the Pier 6 east wall and the Pier 7 west wall (photo 26). Most girder ends exhibit bolted repair plates and angles at the webs and bottom flanges for up to 25'-0" long. There are isolated areas of 1/8" section loss and a 1/2" hole at Girder A to webs beyond the repair plates. See photos 118 through 126 and the attached file "070001 Elem 107 Defect Table.pdf" for further details.

515 Steel Protective Coating 3 19,385.00 sq.ft 7,350.00 6,300.00 5,735.00 0.00

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# RIDOT Bridge Inspection Report

070001 Washington Bridge North

Inspected By

Inspector:

Inspection Date

07/21/2023

**AECOM** 

#### **Bridge Condition Poor**

The fascia sides of Girders A and K have been re-painted and are re-rusting. Remaining areas exhibit light to moderate rust with up to heavy rust at girder ends.

See photos 118 through 124 and the attached file "070001 Elem 107 Defect Table.pdf" for further details.

	ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
						CS 1	CS 2	CS 3	CS 4
	3410	Chalk(Steel Protect Co 3		6,300.00	sq.ft	0.00	6,300.00	0.00	0.00
		See photos 118 through 124 details.	and the	e attached file	"070001 Elei	m 107 Defect T	able.pdf" for further		
	ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
						CS 1	CS 2	CS 3	CS 4
	3420	Peel/Bub/Crack(Stl Prc 3		5,735.00	sq.ft	0.00	0.00	5,735.00	0.00
		See photos 118 through 124 details.	and the	e attached file	"070001 Elei	m 107 Defect T	able.pdf" for further		
.000	Со	rrosion 3		390.00	ft	0.00	353.00	37.00	0.00
		new 1/2" diameter web hole wate (photos 118 and 119).	vas note	ed to Girder A a	at Pier 6 at th	e end of the w	eb repair		
		e photos 118 through 124 an ther details.	d the at	tached file "07	0001 Elem 1	07 Defect Table	e.pdf" for		
900	Di	stortion 3		143.00	ft	0.00	143.00	0.00	0.00
	Th	e bottom flanges exhibit typic	cal 1/8" v	vertical distortion	on at the sec	tion transitions	(photo		

The bottom flanges exhibit typical 1/8" vertical distortion at the section transitions (photo 126).

Girder A bottom flange exhibits full length x up to 5/16" vertical distortion and minor rotation of the girder (top of girder is rotating towards the north) (photo 125).

Girder K bottom flange exhibits full length x up to 3/8" vertical distortion (photo 120).

See the attached file "070001 Elem 107 Defect Table.pdf" for further details.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
109	Pre Opn Conc Girder/Beam	3	14,543.00	ft	11,647.00	1,397.00	1,394.00	105.00

The prestressed concrete girders in Spans 1 through 6 and 8 through 14 consist of variable depth post-tensioned cantilevered girder sections over the piers with corbels at the end. The cantilevered girder sections support prestressed concrete suspended beams (photos 23-25, 27-29). The prestressed concrete I-girders in Spans 15 through 18 are simply supported between the substructure units (photos 30 and 31). Rehabilitation construction is on-going and there are multiple defects that have been repaired or are in the process of being repaired (photos 131, 135, 142, 150, 152, 154, 155, 157, 158). Active deck construction results in deck joint leakage and ponding water on the corbel seats. The suspended beams exhibit typical shear cracks at dapped ends. There are scattered cracks, delaminations and spalls with exposed stirrups and prestressing strands at the beam ends, dapped ends and bottom flange undersides. The corbels exhibit cracks, delaminations and spalls with exposed post-tension anchor plates on the suspended beam sides throughout. The remaining corbel surfaces exhibit isolated cracks, delaminations and minor spalls. The cantilever girders exhibit hairline diagonal cracks along the post-tensioned cable lines, some sealed and unsealed, isolated vertical cracks and delaminations over the pier columns and scattered spalls with exposed rebar. The post-tensioned anchor blocks on the underside exhibit delaminations and spalls. The cantilever ends in Span 7 at Pier 6 and Pier 7 (accessed via the catwalks on the interior walls of the piers) exhibit delaminations and spalls up to full height with fully exposed and debonded stirrups and reduced bearing areas. The I-girders in Spans 15 through 18 exhibit scattered hairline cracks with efflorescence, delaminations, spalls and exposed prestressing strands. The back faces of the girder ends exhibit severe spalls with exposed and debonded stirrups. There are scattered cut-outs for repair with exposed rebar in the underside of the bottom flanges. Pigeons on corbels typical throughout (photos 130 and 131). See photos 127 - 161 and the attached files "070001 Elem 109 Shear Crack Table.pdf" and "070001 Elem 109 Defect Table.pdf" for further details.

**Conc Prot Coating** 

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

521

Envelope: 4861673 Reviewer: Alexandra R

# **RIDOT Bridge Inspection Report**

sq.ft

070001 **Washington Bridge North** 

Inspected By **AECOM** Inspector: Inspection Date 07/21/2023 **Bridge Condition Poor** 375.00 5,000.00 4,250.00 0.00 375.00

The suspended beam dapped ends are coated with a protective sealant which exh bits scattered peeling and cracking throughout (see photos 127 - 161).

	ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
	3510 V	Vear (Concrete Protec 3	3	750.00	sq.ft	0.00	0.00	375.00	375.00
		e suspended beam dap eling and cracking throu			•	e sealant which	exhibits scattered		
080	Delam	ination/Spall/Patched Are3		1,246.00	ft	0.00	994.00	252.00	0.00
	See pl details	notos 127 - 161 and the	attached	file "070001 E	lem 109 Def	ect Table.pdf" fo	or further		
1090	Expose	ed Rebar 3		189.00	ft	30 00	19 00	40.00	100.00
	See pl	hotos 121 - 167 and the	attached	file "070001 E	lem 109 Def	ect Table.pdf" fo	or further		
1100	Expose	ed Prestressing 3		25.00	ft	15 00	0.00	5.00	5.00
	See pl	hotos 121 - 167 and the	attached	file "070001 E	lem 109 Def	ect Table.pdf" fo	or further		
1110	Cracki	ng (PSC) 3		748.00	ft	0.00	16 00	732.00	0.00
		hotos 121 - 167 and the 01 Elem 109 Defect Tab				ear Crack Table	e.pdf" and		
120	Efflore	scence/Rust Staining 3		730.00	ft	0.00	365.00	365.00	0.00
	See pl	hotos 121 - 167 and the	attached	file "070001 E	lem 109 Def	ect Table.pdf" fo	or further		
7000	Damag	ge 3		3.00	ft	0.00	3.00	0.00	0.00
		restressed concrete I-gi in the following location		bit impact scra	apes on the b	ottom flanges o	over travel		
		n 16, Girder E east of m n 18, All girders: Minor i		0 1		crape.			
3368	Graffit	i 3		200.00	ft	0.00	200.00	0.00	0.00

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
110	Re Conc Opn Girder/Beam	3	2,880.00	ft	579.00	1,486.00	770.00	45.00

The reinforced concrete fascia arch girders in Spans 1 through 6, 8 through 13 and 1R through 3R consist of cantilevered sections at the piers and suspended midspan sections (photos 13-17). The cantilever sections support the suspended sections with concrete keys at shiplap joints with elastomeric bearing pads. Rehabilitation construction is on-going and there are multiple defects that are in the process of being repaired (see photos 99, 100, 105, 108, 109, 111, 113). The arch girders exhibit vertical, transverse and horizontal cracks, delaminations and spalls with exposed/debonded rebar at the shiplap joints and bottom flanges. There is vertical misalignment between the cantilever sections and suspended section in spans 6 and 11 (photo 104). See photos 96 through 117 and the attached file "070001 Elem 110 Defect Table.pdf" for further details.

The suspended beam ends in Span 4 exhibit scattered areas of minor to heavy graffiti.

521 **Conc Prot Coating** 14,800.00 14,800.00 0.00 0.00 0.00 sq.ft

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Reviewer: Alexandra R

# **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By

**AECOM** Inspector:

**Bridge Condition Poor** 

Inspection Date

07/21/2023

Cracking (RC and Other) See photos 97 through file "070001 Elem 110 E	, ,			0.00 ugh 117 and the  QTY CS 1	538.00 attached QTY CS 2	370.00 QTY CS 3	10.00 QTY CS 4
See photos 97 through	99, 102, 103	3, 105, 106, 110	and 114 thro			370.00	10.00
Cracking (RC and Other)	3	918.00	ft	0.00	538.00	370.00	10.00
See photo 107 and the	attached file	: "070001 Elem 1	10 Defect Ta	ble.pdf" for furth	er details.		
Efflorescence/Rust Staining	; 3	450.00	ft	0.00	300.00	150.00	0.00
		nd 113 and the a	ttached file "	070001 Elem 11	0 Defect		
Exposed Rebar	3	103.00	ft	0.00	18 00	50.00	35.00
See photos 96 through further details.	117 and the	attached file "07	0001 Elem 1	10 Defect Table.	pdf" for		
Delamination/Spall/Patched	d Are3	830.00	ft	0.00	630.00	200.00	0.00
sealant. See photos 96 "070001 Elem 110 Defe	, 97, 98, 100 ect Table.pdf	0, 102, 105, 106, " for further detail	, 109, 111, 11 ils.	7) and the attacl	ned file		
	sealant. See photos 96 "070001 Elem 110 Defe  Delamination/Spall/Patche See photos 96 through further details.  Exposed Rebar See photos 106 through Table.pdf" for further de	sealant. See photos 96 , 97, 98, 100 "070001 Elem 110 Defect Table.pdf  Delamination/Spall/Patched Are3  See photos 96 through 117 and the further details.  Exposed Rebar 3  See photos 106 through 109, 112 at Table.pdf" for further details.  Efflorescence/Rust Staining 3	sealant. See photos 96 , 97, 98, 100, 102, 105, 106, "070001 Elem 110 Defect Table.pdf" for further detail Delamination/Spall/Patched Are3 830.00  See photos 96 through 117 and the attached file "07 further details.  Exposed Rebar 3 103.00  See photos 106 through 109, 112 and 113 and the attached file "Table.pdf" for further details.  Efflorescence/Rust Staining 3 450.00	sealant. See photos 96 , 97, 98, 100, 102, 105, 106, 109, 111, 11 "070001 Elem 110 Defect Table.pdf" for further details.  Delamination/Spall/Patched Are3 830.00 ft  See photos 96 through 117 and the attached file "070001 Elem 1 further details.  Exposed Rebar 3 103.00 ft  See photos 106 through 109, 112 and 113 and the attached file "Table.pdf" for further details.  Efflorescence/Rust Staining 3 450.00 ft	sealant. See photos 96 , 97, 98, 100, 102, 105, 106, 109, 111, 117) and the attack "070001 Elem 110 Defect Table.pdf" for further details.  Delamination/Spall/Patched Are3 830.00 ft 0.00  See photos 96 through 117 and the attached file "070001 Elem 110 Defect Table. further details.  Exposed Rebar 3 103.00 ft 0.00  See photos 106 through 109, 112 and 113 and the attached file "070001 Elem 11 Table.pdf" for further details.  Efflorescence/Rust Staining 3 450.00 ft 0.00	Delamination/Spall/Patched Are3 830.00 ft 0.00 630.00  See photos 96 through 117 and the attached file "070001 Elem 110 Defect Table.pdf" for further details.  Exposed Rebar 3 103.00 ft 0.00 18 00  See photos 106 through 109, 112 and 113 and the attached file "070001 Elem 110 Defect Table.pdf" for further details.	sealant. See photos 96 , 97, 98, 100, 102, 105, 106, 109, 111, 117) and the attached file         "070001 Elem 110 Defect Table.pdf" for further details.         Delamination/Spall/Patched Are3       830.00       ft       0.00       630.00       200.00         See photos 96 through 117 and the attached file "070001 Elem 110 Defect Table.pdf" for further details.         Exposed Rebar       3       103.00       ft       0.00       18 00       50.00         See photos 106 through 109, 112 and 113 and the attached file "070001 Elem 110 Defect Table.pdf" for further details.         Efflorescence/Rust Staining       3       450.00       ft       0.00       300.00       150.00

There are reinforced concrete columns at Piers 1 through 13 that support the cantilever girders and at Piers 14 through 17 that support the reinforced concrete pier caps (photos 263, 269, 274, 275). The cantilever girder columns exhibit isolated hairline vertical and map cracks, delaminations and spalls. The pedestals at the top of the columns exhibit typical scattered delaminations/spalls up to full width x full height x 2" deep with exposed edges of steel bearing plates. The pier cap columns exhibit scattered sealed/unsealed vertical cracks and rust stains throughout with isolated hairline map cracks, efflorescence, delaminations and spalls. See photos 255 through 260 and the attached file "070001 Elem 205 Defect Table.pdf" for further details.

1080	Delamination/Spall/Patched	Are3	48.00	each	0.00	21 00	27.00	0.00					
	See photos 256 through further details.	260 and the	attached file "07	'0001 Elem 2	05 Defect Table	.pdf" for							
1120	Efflorescence/Rust Staining	3	5.00	each	0.00	0.00	5.00	0.00					
	See photo 258 and the attached file "070001 Elem 205 Defect Table.pdf" for further details.												
1130	Cracking (RC and Other)	3	9.00	each	0.00	3.00	6.00	0.00					
	See photos 258 & 260 and the attached file "070001 Elem 205 Defect Table.pdf" for further details.												
8368	Graffiti	3	300.00	each	0.00	300.00	0.00	0.00					
	The Pier 3 and Pier 10 o	The Pier 3 and Pier 10 columns exhibit heavy graffiti on the lower halves (photo 263).											

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
210	Re Conc Pier Wall	3	1,151.00	ft	571.00	367.00	213.00	0.00

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Submitted: 10/31/2024 9:38 AM Envelope: 4861673 Reviewer: Alexandra R. Driven to get you there

# RIDOT Bridge Inspection Report

070001 Washington Bridge North

Inspected By AECOM

Inspector:

07/21/2023

#### **Bridge Condition Poor**

Inspection Date

There are reinforced concrete pier walls at Piers 1 through 13 and 1R through 3R. All pier walls except the east pier wall of Pier 6, the west pier wall of Pier 7 and Piers 1R through 3R are non-structural and act as curtain walls providing architectural (stone façade) and protective elements to the pier columns (photos 261-273). The east pier wall of Pier 6 and the west pier wall of Pier 7 support the cantilever girder ends in Spans 6 and 8 (through cantilever support pedestals) and the steel girders in Span 7. The cantilever girder pedestals can be accessed via the catwalks on the interior portions of Pier 6 and Pier 7; see Access Notes. There are cellular walls at the base of Piers 6 & 7 interiors which are inaccessible (photos 234-236, 238). Pier walls 1R through 3R support the Gano Street off-ramp box girder superstructure (photos 276-279). There are reinforced concrete pylons/walls at the north and south ends of the piers that extend from the coping at the base of the bridge railings (photos 13-17). The pier walls at Piers 1 through 3 and 10 through 13 exhibit a protective coating in most locations and all piers exhibit sealed vertical and map cracks throughout with isolated cracks re-opening. Scattered cracks through the pier wall stone facades remain. The pylons remain uncoated and exhibit typical scattered hairline cracks with efflorescence and rust stains. See photos 222 through 243, 261 through 279 and the attached file "070001 Elem 210 Defect Table.pdf" for further details.

521	Conc Prot Coating	3	25,200.00	sq.ft	25,200.00	0.00	0.00	0.00
	The pier walls at Piers attached file "070001 E	•	•		•	ee the		
1080	Delamination/Spall/Patch	ed Are3	200.00	ft	0.00	97 00	103.00	0.00
	See photos 222, 223, 2 "070001 Elem 210 Def				243 and the attac	hed file		
1120	Efflorescence/Rust Stainin	g 3	80.00	ft	0.00	40 00	40.00	0.00
	See photos 226, 231, 2 further details.	240 & 242 the	e attached file "07	70001 Elem	210 Defect Table.	.pdf" for		
1130	Cracking (RC and Other)	3	185.00	ft	0.00	115.00	70.00	0.00
	See photos 225, 226, 2 file "070001 Elem 210				42 & 243 and the	attached		
6000	Scour	3	115.00	ft	0.00	115.00	0.00	0.00
	Evidence of scour is no also undermined which See both underwater re	n was not pre	viously noted in t			•		
8368	Graffiti	3	400.00	ft	0.00	400.00	0.00	0.00
	The pier walls at Piers anti-graffiti paint (photo		•	solated mode	erate to heavy gra	iffiti and		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
215	Re Conc Abutment	3	230.00	ft	54.00	67.00	109.00	0.00

There are reinforced concrete abutments at each end of the main structure (West Abutment #1 & East Abutment #2) and at the end of the Gano Street off-ramp (West Abutment 1R) (see photos 20, 244 & 246). The abutments all have protective coatings. West Abutment #1 is a stub abutment that is hidden by backfill beyond a retaining wall. There is severe accumulation of pigeon debris and nesting pigeons behind the wall up to the top of the columns preventing the inspection of the stub abutment stem (see photo 245). The retaining wall exhibits scattered hairline cracks. East Abutment #2 is a full height abutment with an electrical utility room built into the abutment in Bays H and I (see photo 289). See Access Notes for access to the electrical room. The abutment exhibits scattered hairline cracks, delaminations, spalls and debris accumulation/pigeon nesting on the beam seats. West Abutment 1R is a semi-stub abutment that sits on the river embankment with slope protection blocks in front. The abutment exhibits scattered efflorescence, rust stains and an isolated spall. See photos 244 through 248 the attached file "070001 Elem 215 Defect Table.pdf" for further details.

521 Conc Prot Coating 3 2,300.00 sq.ft 2,300.00 0.00 0.00 0.00

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Envelope: 4861673 Reviewer: Alexandra R

# **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By **AECOM** 

Inspector:

0.00

0.00

# **Bridge Condition Poor**

Inspection Date

07/21/2023

	The abutments all have 215 Defect Table.pdf" for	•	O (,	44). See the	e attached file "07	'0001 Elem		
1080	Delamination/Spall/Patche	ed Are3	127.00	ft	0.00	52 00	75.00	0.00
	See photo 248 the atta	ched file "07	0001 Elem 215 [	Defect Table	.pdf" for further d	etails.		
1120	Efflorescence/Rust Staining	g 3	30.00	ft	0.00	15 00	15.00	0.00
	See the attached file "0	70001 Elem	215 Defect Table	e.pdf" for fu	rther details.			
1130	Cracking (RC and Other)	3	19.00	ft	0.00	0.00	19.00	0.00
	See the attached file "0	70001 Elem	215 Defect Table	e.pdf" for fu	rther details.			
8368	Graffiti	3	50.00	ft	0.00	50 00	0.00	0.00
	The West Abutment 1R	t has graffiti t	throughout (photo	o 246).				
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
220	Re Conc Pile Cap/Ftg	3	1,151.00	ft	1,146.00	1.00	4.00	0.00

substructure. The following notes are from the previous 2021 Underwater Inspection. The exposed pile caps step out from the face of the pier stems at varying widths from 10" wide to 1'-6" wide and are exposed up to full-height with varying measurements from 3'-0" (full-height) at Pier 5 to 10'-0" (full-height) at Pier 3R (Gano Street Ramp). Piers 3R, 5 and 9 exhibit exposed concrete tremie seals up to a maximum vertical exposure of 3'-0" high. There is an undermining cavity along the south nose of Pier 8 that measures 4'-0" long x 5" high with up to 6" horizontal penetration.

1130 Cracking (RC and Other) 1.00 0.00 This element was not part of the Routine Inspection performed on 7/21/2023 to inspect the

superstructure and substructure. The following notes are from the previous 2021 Underwater Inspection.

Pier 3R pile cap exh bits a crack 7'-0" high x 3/16" wide extending from the top of the pile cap.

6000 Scour 4.00 0.00 0.00 4.00

This element was not part of the Routine Inspection performed on 7/21/2023 to inspect the superstructure and substructure. The following notes are from the previous 2021 Underwater Inspection.

There is an undermining cavity along the south nose of Pier 8 that measures 4'-0" long x 5" high with up to 6" horizontal penetration.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
234	Re Conc Pier Cap	3	388.00	ft	0.00	362.00	26.00	0.00

There are reinforced concrete caps at Piers 14 through 17 (see photos 274 & 275). The caps are covered with remaining chloride extraction materials throughout. The caps and pedestals exhibit isolated hairline cracks, delaminations and spalls. See photos 249 through 254 and the attached file "070001 Elem 234 Defect Table.pdf" for further details.

1080 0.00 Delamination/Spall/Patched Are3 325.00 ft 0.00 307.00 18.00

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Submitted: 10/31/2024 9:38 AM Envelope: 486167; Reviewer: Alexandra R

# RIDOT Bridge **Inspection Report**

070001 **Washington Bridge North** 

Inspected By

Inspector:

**AECOM** 

Driven to get you there Inspection Date 07/21/2023 **Bridge Condition Poor** See photos 250, 252 & 254 and the attached file "070001 Elem 234 Defect Table.pdf" for further details. 1090 **Exposed Rebar** 1.00 ft 0.00 1.00 0.00 0.00 See photo 254 and the attached file "070001 Elem 234 Defect Table.pdf" for further details. 1120 Efflorescence/Rust Staining 15.00 ft 0.00 7.00 8.00 0.00 See the attached file "070001 Elem 234 Defect Table.pdf" for further details. 1130 47 00 Cracking (RC and Other) 47.00 ft 0.00 0.00 0.00 3 See photos 249 & 251 and the attached file "070001 Elem 234 Defect Table.pdf" for further details **ELEM ELEMENT NAME ENV QUANTITY** UNITS QTY QTY QTY QTY CS<sub>1</sub> CS<sub>2</sub> CS<sub>3</sub> CS<sub>4</sub> 300 Strip Seal Exp Joint 93.00 ft 68.00 20.00 5.00 0.00 There is a strip seal joint in Span 5 at the east side of Pier 4 in the left lanes of I-195 westbound. The joint has been paved over (photo 58). 2310 3 5.00 0.00 5.00 0.00 0.00 Leakage There is evidence of leakage through the joint on the underside due to failing joint seal (see photo 264). 2330 ft Seal Damage 10.00 0.00 10 00 0.00 0.00 3 The deck joint seal is loose/sagging in several locations when viewed from the underside (see photo 211). 2350 **Debris Impaction** 3 5.00 0.00 5.00 0.00 0.00 The joint is paved over full width of the bridge with a transverse crack (see photo 58). 2370 Metal Deterioration or Damage 3 5.00 0.00 0.00 5.00 0.00 The joint is paved over for the full width of the bridge (see photo 58). **ELEM ELEMENT NAME ENV** QUANTITY UNITS QTY QTY QTY QTY CS<sub>1</sub> CS<sub>2</sub> CS<sub>3</sub> **CS 4** 301 **Pourable Joint Seal** 507.00 544.00 85.00 15.00 1.151.00 ft

There were pourable joint seals on the west side of West Abutment 1 and Piers 1 through 7, on the east side of Piers 7 through 13, at East Abutment 2, and along the gore median in Spans 16 and 17 that were previously installed. There is ongoing link slab construction which has eliminated some of the deck joints (see photos 54 & 59). The joints that remain have been paved over. The wearing surface along deck joint edges exhibits scattered patches and depressed pavement with minor potholes, and random locations of raveling (see photos 57, 60 - 62 & 64).

2310 344.00 0.00 344.00 0.00 0.00 Leakage The joints exh bit scattered evidence of leakage along the undersides (see photos 241, 266, 267). 2320 Seal Adhesion 3 ft 200.00 85.00 15.00 300.00 0.00

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2230

515

1000

Loss of Bearing Area

**Steel Protective Coating** 

# RIDOT Bridge Inspection Report

070001 **Washington Bridge North** 

Inspected By

Inspection Date

150.00

40 00

0.00

7.00

50.00

21.00

44.00

2.00

Inspector:

07/21/2023

0.00

0.00

88.00

0.00

#### **Bridge Condition Poor**

The pourable joint seals exhibit isolated locations of loss of seal adhesion (photos 57, 60, 61, 62, 64).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
310	Elastomeric Bearing	3	401.00	each	136.00	190.00	75.00	0.00

There are elastomeric bearing pads for the following elements and locations: P/S concrete drop-in girder dapped ends at the corbels in Spans 1 through 6 and 8 through 14 (photo 138), post-tensioned concrete cantilever girder ends at the east wall of Pier 6 and the west wall of Pier 7 (photos 148 and 149), P/S concrete I-girders in Spans 14 through 18 (photos 162, 220 and 221), and concrete fascia arches at the shiplap joints in Spans 1 through 6 and Spans 8 through 13 (photos 104 and 113) and at pier walls in Spans 1R through 3R (photo 116).

2220 Alignment each 4.00 0.00

All measurements were recorded at a temperature of 70-95 degrees Fahrenheit.

The suspended beam bearings in Spans 1 through 3, 8, 9, 11 and 13 are typically in contraction up to 1/2". The bearings in Spans 4, 5, 10, 12 and 14 are typically neutral or expanded up to 1". The bearings in Span 6 exhibit contraction and expansion, bearings B & C at East Corbel are expanded 1/2" (photo 144).

The I-Girder bearings in Spans 15 through 18 are typically neutral or expanded up to 1/2".

The fascia arch bearings in Spans 1R through 3R typically neutral or expanded up to 1/2".

Bulging, Splitting or Tearing The bearing pads exhibit random minor tears throughout. Random bearings exhibit minor to moderate bulging and isolated bearings exhibit heavier bulging with up to 1/2" separation at

the top or the bottom of the pad (photo 104). 2240

There are scattered locations of bearing area loss due to spalls undermining the bearings and spalls above the bearings reducing the bearing area (photos 138 and 162). See the attached files "070001 Elem 109 Defect Table.pdf", "070001 Elem 110 Defect Table.pdf" and "070001 Elem 234 Defect Table.pdf" for further details.

61.00

In Span 14 at Pier 14, Bearing F overhangs the pedestal 1" due to rotated pad (photo 221). Bearings A and E also have lateral shift and overhang respective pedestals up to 1/2" (photo 220).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
311	Moveable Bearing	3	11.00	each	1.00	7.00	3.00	0.00

0.00

There are steel rocker bearings in Span 7 at Pier 6 that have limited access for full inspection due to bearing restraints in place at the east face of each bearing. The bearings exhibit light to moderate accumulation of sand and debris.

sq.ft

The bearings have a steel protective coating with areas of peeling paint and light to

3

moderate rust. Bearings A, B, J, and K have no paint remaining (photo 218).

132.00

9.00

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
3420	Peel/Bub/Crack(Stl Prc 3		132.00	sq.ft	0.00	0.00	44.00	88.00
	The bearings have a steel pr		•	,	ling paint and lig	tht to moderate rus	t.	
	Bearings A, B, J, and K have	no pail	nt remaining (p	noto 218).				

0.00

each

Corrosion

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Envelope: 4861673 Reviewer: Alexandra R.

## **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By **AECOM** 

Inspector:

	Driven to get you there			_		lu au a ati au	Inspector:	07/04/000
		_	• Condition			Inspection	Date	07/21/202
	The bearings and anch exhibit heavy laminated between the bearing pl	d rust on the	bearings and and					
220	Alignment	3	1.00	each	0.00	0.00	1.00	0.00
	The bearings exhibit ty is uneven with no gap a pedestal at the north er	at the south	end and a 1" gap	between the				
240	Loss of Bearing Area	3	1.00	each	1.00	0.00	0.00	0.00
	Patched/repaired - Precorner, 11" long x 1" wi 218).							
_EM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
3	Fixed Bearing	3	11.00	each	0.00	8.00	3.00	0.00
15	Steel Protective Coating The fixed bearings hav moderate rust. Bearing	•	•		0.00 eeling paint with	0.00 Ilight to	66.00	44.00
	ELEM ELEMENT NA	ME E	NV QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
	3420 Peel/Bub/Crack(S	tl Prc 3	110.00	sq.ft	0.00	0.00	66.00	44.00
	The fixed bearings I rust. Bearings A, B,				of peeling paint v	with light to modera	ate	
000	Corrosion	3	11.00	each	0.00	8.00	3.00	0.00
	The bearings and anch exhibit heavy laminated	• •			rust. Bearings A,	B, J and K		
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
1	Re Conc Approach Slab	3	2,352.00	sq.ft	0.00	2,352.00	0.00	0.00
	The reinforced concrete photos 1 - 4, 63 & 64).	approach sl	abs are conceale	d from view	by bituminous	concrete wearing	surfaces (see	
10	Wearing Surfaces	3	2,352.00	sq.ft	1,352.00	500.00	500.00	0.00
	The wearing surfaces enthroughout (see photos		rate wheel line rut	tting with sea	lled and unseale	ed cracks		
	ELEM ELEMENT NA	ME E	NV QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
	3220 Crack (Wearing Some Wearing surface extends & 64).		2,352.00 red locations of se	sq.ft ealed and un	1,352.00 sealed cracks th	500.00 roughout (see pho	500.00 tos 63	0.00
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4

4,108.00

ft

3,693.00

411.00

4.00

0.00

**Re Conc Bridge Railing** 

331

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Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R

### RIDOT Bridge Inspection Report

070001 Washington Bridge North

Inspected By AECOM

Inspector:

#### **Bridge Condition Poor**

Inspection Date

07/21/2023

There are reinforced concrete bridge railings on both sides of the bridge in Spans 1 through 18 and south sides of Spans 1R to 3R (see photos 35 - 39, 45 - 51, 53, 73). There are scattered utility box covers along the interior faces of the bridge railings, many with broken covers (photo 60). Numerous portions of the bridge railing have been replaced as part of the ongoing link slab construction and exhibit transverse cracks (see photos 68, 69). The condition of the tops of the pylons is included in this element (see photos 71 & 72). At Span 7, Pier 7, the joint sealant between the North pylon and the deck overhang is damaged/missing.

Delamination/Spall/Patched Are3 10.00 ft 0.00 10.00 0.00

The bridge railings exhibit isolated minor edge spalls along the top of the railing. In Span 7

1080 0.00 The bridge railings exhibit isolated minor edge spalls along the top of the railing. In Span 7 the north railing exhibits a 4'-10" long x 10" high x 4" deep spall (photo 71). In Span 8 the north railing exhibits a 3" long x 10" high x 5" deep spall. In Span 10 the north railing exhibits a 1'-3" long x 10" high x 5" deep spall. The pylons exhibit typical scattered hollow areas and spalls with and without exposed rebar (photo 72). 1090 **Exposed Rebar** 3.00 ft 0.00 0.00 3.00 0.00 The pylons exhibit typical spalls with and without exposed rebar (see photos 71 & 72). 1120 Efflorescence/Rust Staining 1.00 0.00 0.00 1.00 0.00 The pylons exhibit typical scattered cracks with rust staining (photo 72). 1130 Cracking (RC and Other) 351.00 0.00 0.00 The bridge railings exhibit typical scattered full height hairline vertical cracks (photo 65). The pylons exhibit typical scattered cracks and rust stains (photo 72). 7000 Damage 3 50.00 ft 0.00 50 00 0.00 0.00

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8060	Scupper	3	27.00	each	0.00	3.00	20.00	4.00

The scupper drainage grates along both shoulders of I-195 Westbound are fully clogged with sand and debris; only isolated grates remain partially open with clean drainpipe openings (see photos 62 & 284). In Span 17 the drainage grate along the north shoulder is fully clogged and missing 2 bars of the drainage grate. In Span 9 the drainage grate along the north shoulder is filled with concrete. At the West Abutment #1, in the south shoulder, the scupper grate is broken (photo 283). At Pier 1, in the south shoulder, the scupper grate is broken. The drainpipe at the north end of Pier 17 has a disconnected section (photo 91).

1000 Corrosion 3 4.00 each 0.00 0.00 0.00 4.00

The scupper drainpipes on the underside of deck exhibit typical light to heavy rust. The Pier 3 drainpipes on the south face of Column A and on the north face of Column F exhibit rust holes and leak onto members below (see photo 255).

The bridge railings exhibit random minor scrapes (photos 65 - 68).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8107	Steel Opn Girder/Beam ENDS	5 3	110.00	ft	0.00	0.00	110.00	0.00

Most girder ends exhibit bolted repair plates and angles at the webs and bottom flanges for up to 25'-0" long, with typical light to heavy rust and up to 1/16" section loss to the repair plates and angles. Remaining areas exhibit scattered areas of heavy rust at the girder ends. The bottom flanges at girder ends exhibit typical heavy rust and section loss with down to 1/4" remaining thickness. See photos 118 through 124 and the attached file "070001 Elem 107 Defect Table.pdf" for further details.

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1000

8368

Graffiti

### **RIDOT Bridge Inspection Report**

070001

**Washington Bridge North** 

Inspected By **AECOM** 

Inspector: Inspection Date

07/21/2023

**Bridge Condition Poor** 515 **Steel Protective Coating** 1,615.00 0.00 0.00 615.00 1,000.00

See photos 118, 121 through 124 and the attached file "070001 Elem 107 Defect Table.pdf"

for further details.	occ pricted inc, including including and and attached inc	0.000
	for further details.	

ı	ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
	3420	Peel/Bub/Crack(Stl Prc 3		1,615.00	sq.ft	0.00	0.00	615.00	1,000.00
		ee photos 118, 121 throug etails.	h 124 ai	nd the attached	d file "07000	1 Elem 107 Defe	ect Table.pdf" for fu	rther	
ı	Corro	sion 3		110.00	ft	0.00	0.00	110.00	0.00
	See r	photos 118 121 through 1	24 and t	he attached file	- "070001 F	lem 107 Defect	Table ndf"		

for further details.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8213	R/C Return Wall	3	175.00	ft	0.00	150.00	25.00	0.00

#### There are reinforced concrete return walls at the north ends of West Abutment #1 and East Abutment #2 and at both ends of West Abutment 1R. The return walls exhibit moderate to heavy vegetation growth (photos 280, 281).

1080	Delamination/Spall/Patched	Are3	44.00	ft	0.00	44 00	0.00	0.00			
	The top of the northwest the cope up to 2" deep (			#1 exh bits	multiple edge sp	palls along					
1120	Efflorescence/Rust Staining	3	110.00	ft	0.00	85 00	25.00	0.00			
	The return walls exhibit scattered areas of hairline map cracks with isolated efflorescence and rust (see photo 280).										
1130	Cracking (RC and Other)	3	21.00	ft	0.00	21 00	0.00	0.00			
	The return walls exhibit scattered areas of hairline map cracks with isolated efflorescence and rust (see photo 280).										

100.00 There is anti-graffiti paint and graffiti on the West Abutment 1R return walls (see photo 280).

3

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8218	Backwall, All Types	3	230.00	ft	104.00	80.00	46.00	0.00

ft

0.00

100.00

0.00

0.00

There are reinforced concrete backwalls at the abutments (photos 244, 246 & 248). West Abutment #1 backwall is inaccessible due to the heavy accumulation of pigeon debris and nesting pigeons on the abutment seat (photos

	244, 245).							
1080	Delamination/Spall/Patched A	re3	80.00	ft	0.00	70 00	10.00	0.00
	West Abutment 1R and Ea up to 2'-0" long x 2'-0" high			xhibit rando	om hollow areas a	and spalls		
1120	Efflorescence/Rust Staining	3	23.00	ft	0.00	10 00	13.00	0.00
	West Abutment 1R and Eacracks, efflorescence and			٠,	al scattered hairli	ne vertical		
1130	Cracking (RC and Other)	3	23.00	ft	0.00	0.00	23.00	0.00

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#### **RIDOT Bridge** Envelope: 4861673 Reviewer: Alexandra R **Inspection Report**

070001 **Washington Bridge North** 

Inspected By

Inspection Date

**AECOM** 

Inspector:

07/21/2023

## **Bridge Condition Poor**

West Abutment 1R and East Abutment #2 backwalls exhibit typical scattered hairline vertical cracks, efflorescence and rust staining (see photos 246, 248).

There are W-beam steel guardrails at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  Steel Protective Coating 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The guardrails are galvanized.  1020 Connection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).	ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
west side of Piers 8 through 13 and at Piers 14 through 17 that were previously installed. There is ongoing link slab construction which has eliminated some of the dock joints (photos \$4, 99). The joints that remain have been paved over and typically exhibit reflective cracking in these locations (photos 35 - 51). Asphaltic joints typically exhibit 2**-0** wide patches on either side.  2310 Leakage 3 430,00 ft 0.00 430,00 0.00  The joints exh bit scattered evidence of leakage along the undersides (photos 274 - 279).  2320 Seal Cracking 3 21.00 ft 0.00 21.00 0.00  The asphaltic plug joints have been paved over and exh bit partial separations at joint edges, pavement break up and isolated cracks along the joints (photos 35 - 51).  2321 ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY CS1 CS2 CS3  3325 Guardrall, Vehicular 3 700.00 ft 690.00 10.00 0.00  There are W-beam steel guardralls at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardralls along the north side of the Gano Street Off-Ramp (photos 4, 82, 53, 64).  2336 Steel Protective Coating 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The Gano Street off-ramp guardralls exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  2340 Concection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp puardralls exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  2351 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos \$2, \$5, \$6). The south parapet has been replaced with a concrete bridge railing (photo 73).  2360 Delamination/Spall/Patched Are3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos \$2, \$5, \$6). The south parapet has been replaced with a concrete bridge railing (photo 73).  2360 Delamination/Spall/Patche	305	Asphaltic Joint Material	3	1,438.00	ft	987.00	451.00	0.00	0.00
The joints exh bit scattered evidence of leakage along the undersides (photos 274 - 279).  2340 Seal Cracking 3 21.00 ft 0.00 21.00 0.00  The asphaltic plug joints have been paved over and exh bit partial separations at joint edges, pavement break up and isolated cracks along the joints (photos 35 - 51).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  3335 Guardrail, Vehicular 3 700.00 ft 690.00 10.00 0.00  There are W-beam steel guardrails at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  515 Steel Protective Costing 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The guardrails are galvanized.  1020 Connection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  3336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railling (photo 73).  1080 Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8-0" long x up to 1"-4" high hollow area with 5-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).		west side of Piers 8 through slab construction which he paved over and typically 6	gh 13 and a las eliminat exhibit refle	nt Piers 14 through ed some of the c ctive cracking in	gh 17 that w deck joints (	ere previously ir photos 54, 59). ٦	nstalled. There is o	ongoing link ain have been	
2340 Seal Cracking 3 21.00 ft 0.00 21.00 0.00  The asphaltic plug joints have been paved over and exh bit partial separations at joint edges, pavement break up and isolated cracks along the joints (photos 35 - 51).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY QTY CS 1 CS 2 CS 3  3335 Guardrall, Vehicular 3 700.00 ft 690.00 10.00 0.00  There are W-beam steel guardrails at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  515 Steel Protective Costing 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The guardrails are galvanized.  1020 Connection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  1336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 52). The south parapet has been replaced with a concrete bridge railing (photo 73).  1080 Delamination/Spall/Patched Are3 10.00 ft 0.00 10.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8-0" long x up to 1"4" high hollow area with 5-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	2310	Leakage	3	430.00	ft	0.00	430.00	0.00	0.00
The asphaltic plug joints have been paved over and exh bit partial separations at joint edges, pavement break up and isolated cracks along the joints (photos 35 - 51).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  1335 Guardrail, Vehicular 3 700.00 ft 690.00 10.00 0.00  There are W-beam steel guardrails at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  1515 Steel Protective Coating 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The guardrails are galvanized.  1020 Connection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  1336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railling (photo 73).  1080 Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets whibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8-0" long x up to 1"-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).		The joints exh bit scatter	red evidence	e of leakage alor	ng the under	sides (photos 27	4 - 279).		
ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  3335 Guardrail, Vehicular 3 700.00 ft 690.00 10.00 0.00  There are W-beam steel guardrails at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  515 Steel Protective Coating 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The guardrails are galvanized.  1020 Connection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY QTY QTY GS 1 CS 2 CS 3  3336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railing (photo 73).  1080 Delamination/Spail/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	2340	Seal Cracking	3	21.00	ft	0.00	21 00	0.00	0.00
CS 1   CS 2   CS 3							joint		
There are W-beam steel guardrails at the north side of the west approach for I-195 Westbound (photos 3, 69). There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  Steel Protective Coating 3 3,150.00 sq.ft 3,150.00 0.00 0.00 0.00  The guardrails are galvanized.  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  3336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railing (photo 73).  Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS				QTY CS 4
There are also W-beam guardrails along the north side of the Gano Street Off-Ramp (photos 4, 52, 53, 64).  Steel Protective Coating 3 3,150.00 sq.ft 3,150.00 0.00 0.00  The guardrails are galvanized.  1020 Connection 3 10.00 ft 0.00 10.00 0.00  The Gano Street off-ramp guardrails exhibit scattered loose connection bolts to the parapets (photos 52, 53 & 64).  ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY QTY CS 1 CS 2 CS 3  8336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railing (photo 73).  1080 Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).  1090 Exposed Rebar 3 100.00 ft 0.00 70.00 30.00  The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	8335	Guardrail, Vehicular	3	700.00	ft	690.00	10.00	0.00	0.00
ELEM ELEMENT NAME ENV QUANTITY UNITS QTY QTY QTY CS 1 CS 2 CS 3  3336 Conc Bridge Parapet 3 350.00 ft 75.00 245.00 30.00  The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railing (photo 73).  1080 Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).  1090 Exposed Rebar 3 100.00 ft 0.00 70 00 30.00  The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).		The guardrails are galva	anized.	10.00	ft	0.00	10 00		0.00
The Gano Street off-ramp exhibits a reinforced concrete bridge parapet with a single metal rail attached to the top face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railing (photo 73).  1080 Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).  1090 Exposed Rebar 3 100.00 ft 0.00 70 00 30.00  The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	ELEM	,	ENV	QUANTITY	UNITS				QTY CS 4
face on the north side(photos 52, 53, 62). The south parapet has been replaced with a concrete bridge railing (photo 73).  Delamination/Spall/Patched Are3 100.00 ft 0.00 100.00 0.00  The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).  1090 Exposed Rebar 3 100.00 ft 0.00 70 00 30.00  The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	8336	Conc Bridge Parapet	3	350.00	ft				0.00
The parapets exhibit typical scattered cracks, hollow areas and random 1" deep spalls along the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).  1090 Exposed Rebar 3 100.00 ft 0.00 70 00 30.00  The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).		face on the north side(pho				•	-	-	
the top of parapet. The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).  1090 Exposed Rebar 3 100.00 ft 0.00 70 00 30.00  The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	1080	Delamination/Spall/Patched	l Are3	100.00	ft	0.00	100.00	0.00	0.00
The north parapet at midspan of Span 1R exhibits an 8'-0" long x up to 1'-4" high hollow area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).		the top of parapet. The r 1'-4" high hollow area w	north parape	et at midspan of	Span 1R ext	nibits an 8'-0" lon	g x up to		
area with 5'-6" long x 9" high x 2" deep spall with multiple exposed rebar (photo 52).	1090	Exposed Rebar	3	100.00	ft	0.00	70 00	30.00	0.00
1130 Cracking (RC and Other) 3 75.00 ft 0.00 75.00 0.00					•				
		Cracking (PC and Other)	<b>3</b>	75.00	ft	0.00	75.00	0.00	0.00

Filed in Providence/Bristol County Superior Court

Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R

## **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By

Inspection Date

**AECOM** 

Inspector:

07/21/2023

#### **Bridge Condition Poor**

The parapets exhibit typical scattered hairline vertical cracks. The north parapet at Pier 2R exhibits a full height x 1/4" wide vertical crack (photo 62).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8366	Rip Rap	3	1,000.00	sq.ft	940.00	30.00	30.00	0.00

There is rip rap along the West Abutment 1R embankment (photo 246). Above the high-water mark there is a level area covered by bituminous concrete pavement and a sloped block revetment to the base of the abutment. The rip rap exhibits random missing stones along the channel embankment and there are several small sinkholes up to 1'-0" deep in the pavement at the top of the slope.

sq.ft

4000 Settlement

0.00

30 00

30.00

0.00

The rip rap exh bits random missing stones along the channel embankment and there are several small sinkholes up to 1'-0" deep in the pavement at the top of the slope (photo 246).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8367	Slope Blocks	3	700.00	sq.ft	595.00	0.00	105.00	0.00

There is a sloped block revetment in front of West Abutment 1R (photo 246). The slope block protection exhibits mortar deterioration between the pavers and light vegetation growth.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8370	Steel Diaphragms	3	70.00	each	13.00	36.00	17.00	4.00

There are steel end diaphragms between the steel girders at each pier in Span 7 and intermediate diaphragms numbered from west to east in Span 7 (photos 26, 83 - 85, 122 - 124).

515 **Steel Protective Coating** 

1,800.00

sq.ft

378.00

1,125.00

207.00

90.00

The end diaphragms exhibit typical moderate to heavy rust and corrosion throughout. The intermediate diaphragms exh bit typical paint chalking and random areas of light rust (photos 26, 83 - 85, 122, 123).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
3410	Chalk(Steel Protect Co 3		900.00	sq.ft	0.00	900.00	0.00	0.00
	The protective coating on th	e interme	ediate diaphra	gms typically	exhibits chalk	ing (photos 26, 83 -	85,	

122, 123).

	ELEM	<b>ELEMENT NAME</b>	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
						CS 1	CS 2	CS 3	CS 4
	3420	Peel/Bub/Crack(Stl Prc 3		522.00	sq.ft	0.00	225.00	207.00	90.00
		The protective coating on the completely in areas (photos			•	peeling and bu	ubbling and has faile	ed	
1000	Cor	rosion 3		55.00	each	0.00	35 00	16.00	4.00

Filed in Providence/Bristol County Superior Court

Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R

### **RIDOT Bridge** Inspection Report

070001 **Washington Bridge North** 

Inspected By

Inspector:

07/21/2023

**AECOM** 

#### **Bridge Condition Poor**

Inspection Date

The end diaphragms typically exhibit moderate to heavy rust throughout with down to 1/8" remaining thickness to top flanges and down to 1/4" remaining thickness to bottom flanges (photos 122-124). There is scattered pack rust up to 3/8" thick between the bearing stiffeners and diaphragm connection plates.

The end diaphragm in bay E at pier 7 exhibits 100% section loss x 3/4" wide to the bottom flange of the top channel.

The intermediate diaphragms exhibit random areas of light rust (photo 26).

1020 1.00 1.00 0.00 Connection 2.00 each

Span 7, Bay E, Diaphragm 5 at Girder F exhibits one missing lower diaphragm connection bolt. Bay H, Diaphragm 1 exhibits two mis-drilled bolt holes.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8371	Conc Diaphragms	3	221.00	each	6.00	86.00	129.00	0.00

There are reinforced concrete end diaphragms and a midspan diaphragm for the suspended beams, between the corbels and between the cantilever girders over piers in Spans 1 through 6 and 8 through 14 (photos 23 - 25, 27 -29). There are end diaphragms and a midspan diaphragm for the I-girders in Spans 14 through 18 (photos 30 - 31) and there are interior diaphragms and exterior diaphragms below the box girders at the piers for the Gano Street off-ramp (photos 196, 276 - 279). In Span 5, the east end of suspended beam B bears on an oversized L-shaped diaphragm/transverse support beam that transfers loads to beams A and C. The irregular configuration is due to the Gano Street off-ramp connecting to Span 5. The diaphragms were in varying stages of rehabilitation during the inspection. There are several locations where the diaphragm concrete has been fully removed with only rebar remaining (photo 207 & 215). Scattered formwork remains in place throughout the bridge and the seismic restrainer assemblies that pass through the diaphragms at the deck joints typically have the restrainer rod removed (photo 211 - 214). The diaphragms exhibit scattered hairline map cracks with and without efflorescence and rust stains, hairline to 1/2" wide vertical cracks, random concrete patches, delaminations and spalls with and without exposed and debonded rebar. See photos 205 through 216 and the attached file "070001 Elem 8371 Defect Table.pdf" for further details

1080	Delamination/Spall/Patche	d Are3	74.00	each	0.00	6.00	68.00	0.00
	See photos 205 - 216 a details.	nd the attache	d file "070001 E	Elem 8371 De	efect Table.pdf"	for further		
1090	Exposed Rebar	3	13.00	each	6.00	6.00	1.00	0.00
	See photos 205, 206, 2 Table.pdf" for further de	•	and the attache	ed file "07000	11 Elem 8371 D	efect		
1120	Efflorescence/Rust Staining	g 3	11.00	each	0.00	6.00	5.00	0.00
	See photos 208, 213 and details.	nd the attached	l file "070001 El	lem 8371 De	fect Table.pdf" f	or further		
1130	Cracking (RC and Other)	3	123.00	each	0.00	68 00	55.00	0.00
	See photos 209, 212 & further details.	213 and the at	tached file "070	0001 Elem 83	371 Defect Table	e.pdf" for		
8368	Graffiti	3	100.00	each	0.00	100.00	0.00	0.00
	There are scattered are	eas of heavy gr	affiti on the diap	ohragms.				

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8398	Curb/sidewalks - Con	3	350.00	ft	0.00	350.00	0.00	0.00

Filed in Providence/Bristol County Superior Court

Driven to get you there

Efflorescence/Rust Staining

Cracking (RC and Other)

Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R

1120

1130

# RIDOT Bridge Inspection Report

070001 Washington Bridge North

Inspected By AECOM

Inspector:

0.00

0.00

0.00

07/21/2023

0.00

0.00

0.00

#### **Bridge Condition Poor**

Inspection Date

1.00

1.00

There are concrete safety walks and granite curbs along the north side of the Gano Street off-ramp (see photos 4, 52, 53, 64, 73). The safetywalk typically exhibit minor debris accumulation.

ft

0.00

Delamination/Spall/Patched Are3 348.00 ft 0.00 348.00

The safety wa ks exhibit scattered hairline cracks and general scaling 1/2" to 1" deep. The curbs exhibit typical rust staining and minor chipping throughout (photo 52). The south curb has been removed as part of new bridge railing construction (photo 73). The approach curbs are shifted up to 6" laterally with typical gaps up to 1" between curb sections (photo 64).

1.00

The north curb exhibits typical rust staining throughout (photo 52).

The safety wak exhibits scattered hairline cracks throughout (photo 52).

Work History From completed work candidates.

Completion Date Action Notes

#### **Work Candidates**

Assigned to Contractor

Assigned to Co	ntractor		Date	
Status	Priority	Action	Proposed	Notes
To_Be_Assign ed	0	Clean&Flush Deck Drainage	07/22/2020	AECOM Update 7/21/2023: No change to condition; ponding water up to 7" deep remains. Previously Noted: Gano off-ramp box girder interiors:There is ponding water up to 6" deep at Pier 2R where the drain holes in the bottom flange remain clogged. This issue was reported last year during the routine inspection via phone and email and was also documented in the official inspection report. The drains should be cleared and cleaned to allow for proper drainage.
To_Be_Assign ed	0	Clean/ Wash Bm Seat&Brg. Areas	07/22/2020	AECOM Update 7/21/2023: Access points were closed off and girder interiors were cleaned. Previously Noted: Gano off-ramp box girders: There are multiple unsecured points of access allowing pigeons into the box girders. One access hatch at Abutment 1R in Cell 'C' remains partially open, the access hole in the south web at Pier 3R has a detached screen, and Cell '1B' has a 12" wide x 12" long hole in the bottom flange. This has resulted in numerous areas of nesting pigeons with moderate to heavy debris which will impede future inspections if not cleaned. At a minimum the access points should be secured immediately.
Assigned to To	be assigned		Date	
Status	Priority	Action	Proposed	Notes
Assigned_Age ncy	1	Misc-Under Deck Shielding	07/21/2023	AECOM recommends removing/cleaning the pigeon debris from the scaffolding in order to safely inspect areas that

could not be accessed.

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R. Driven to get you there

## **RIDOT Bridge Inspection Report**

070001 **Washington Bridge North** 

Inspected By **AECOM** 

Inspector:

Inspection Date 07/21/2023

**Bridge Condition Poor** 

Equipment Aerial Lift Boat Underbridgeinspvel Scaffolding	<u> </u>	Poison Ivy Heavy Vegetation Hurricane Evac Route?		Speed Limit Prep Time 8 Crew Slize 2			
BoesemansChair Waders Rail Mount Elliot Crash Truck Air Monitor Ladder Bucket Truck	00000000	Cones Traffic Setup Req Police Req Night Insp Req Signs	Yes Yes Yes No Yes	Under Insp Vehicl Traffic Control Tin Mile Post Crew Days Time Report Time Bucket Truck Time	20 140	4	
Rigging Floats Climbing Rail Mount Bucket Truck Light Tower		Site Access Notes See Bridge Notes - Ac		otes			
Avg Curb Reveal Nort Avg Curb Reveal Sou Posted Weight Limit		2.50 2.50	8	Telephone Sewer Cable			
Posting Sign ? Post Signs Legible		□ 01		Dil Fire Alarm	_ _		
Post Sign Rec Adv Min Vert Clear Si	51.8	01 -1	II .	OH Lines Present Vater			
Min Vert Clear Signs L Min Vert Clear Post Vi Min Vert Clear Sign R Old Rating and Postir RR Mile Post	ales ec	01 13'-9" 01		Sas Electric Fiber Optic	_ _ _		
US DOT/AAR No.							

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

# **Inspection Report**

**Bridge Condition Poor** 

070001 **Washington Bridge North** 

**AECOM** 

Inspected By

Inspector:

Inspection Date 07/21/2023

**RIDOT Bridge** Envelope: 4861673 Reviewer: Alexandra R.

10/19/2023		Bat and Bird Ob	oservations		
Bats:  BATS OBSERVED  No  BATS NOTES	BATS VISUAL	BAT DROPPINGS	BAT STAINING	BAT SOUNDS	BAT PHOTOS
Birds BIRDS OBSERVED Yes BIRD NOTES		BIRD PHOTOS	BIRDS	SPECIES IDENT	TIFIED
There are pigeons nest West Abutment #1 bridg severe pigeon debris so Inspection Notes and W	ge seat has severe cattered throughout	accumulation of pigeo	n debris and nesting	pigeons. There is	

Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R.

# EXHIBIT 3

Filed in Providence/Bristol County Superior Court

Driven to get you there

Submitted: 10/31/2024 9:38 AM

Reviewer: Alexandra R

Envelope: 4861673

### RIDOT Bridge Inspection Report

Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

07/21/2023 Inspection Date

020001

Bridge Condition Fair

IDENTIFICATION

Bridge ID: 020001

**NBI Number** Washington Bridge South Structure Name: Washington Bridge South 1.0 Mi E of JCT I-95&195 Location (9):

Carries (7): I-195 EB

Type of Service (42A): 1 Highway

Feature Crossed (6): SEEKONK RVR & STS Type of Service (42B): 6 Highway-waterway Placecode (4): East Providence Providence County (3): 44 Rhode Island State (1):

**NBI** Station:

Region (2): District 3 41.8190048 Latitude (16): Longitude (17): -71.3868191

Owner (22): 01 State Highway Agency Custodian (21): 01 State Highway Agency

1930 Year Built (27): Year Recon (106): 2008

Historical (37): 5 Not eligible for NRHF Border State: Not Applicable (P)

Border Number:

% Responsibility:

INSPECTION

Date of Routine Inspection (90): 7/21/2023 24 Frequency (91): Next Inspection: 7/21/2025

Inspection Type Freq (92) Last Insp (93) **Next Insp** Element 7/21/2023 24 7/21/2025 Fracture Critical (A) 1/1/1901 1/1/1901 Underwater (B) 48 7/23/2021 7/21/2025 Special Insp (C) 1/1/1901 1/1/1901

#### LOAD RATING AND POSTING

Posting Status (41) A Open, no restriction Posting % (70): 5 At/Above Legal Loads

Rating Date: 10/7/2019

Design Load (31): 9 MS22.5(HS25)or greater

8 LRFR (HL93) Opr Method (63): Opr Rating (64): 35.30 Tons Inv Method (65): 8 LRFR (HL93) 27.00 Tons Inv Rating (66):

#### DECK GEOMETRY

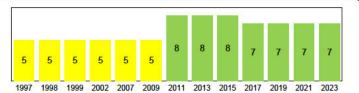
Deck Geometry (68): 4 Tolerable Deck Area: 119,461.50

Deck Type (107): 1 Concrete-Cast-in-Place 1 Monolithic Concrete Wearing Surface (108A):

0 None Membrane (108B):

Deck Protection (108C): 1 Epoxy Coated Reinforci

71.50 O. to O. Width (52): Curb / Sidewalk Width L (50A): 0.00 Curb / Sidewalk Width R (50B): 0.00 0 No median Median (33):



#### DECK CONDITION

Deck Rating (58): 7 Good

Bridge Rail (36A): 1 Meets Standards Transition (36B): 1 Meets Standards Approach Rail (36C): 1 Meets Standards Approach Rail Ends (36D): 1 Meets Standards

#### SUPERSTRUCTURE GEOMETRY

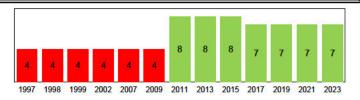
# of Main Spans (45): # of Approach Spans (46): 0

Main Material (43 A): 4 Steel Continuous Main Design (43 B): 02 Stringer/Girder

Max Span Length (48): 160.37 Structure Length (49): 1,670.79 NBIS Length (112): Long Enough Temp Structure (103): Not Applicable (P)

Skew (34):

Structure Flared (35): 1 Yes, flared Parallel Structure (101): Right of || bridge Approach Alignment (72): 6 Equal Min Criteria



#### SUPERSTRUCTURE CONDITION

7 Good Superstructure Rating (59):

6 Equal Min Criteria Structure Evaluation (67):

Filed in Providence/Bristol County Superior Court

Driven to get you there

Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R

### RIDOT Bridge Inspection Report

### Washington Bridge South

020001

Inspected By AECOM-COMMONWEALTH

Inspector:

07/21/2023 Inspection Date

Bridge Condition Fair

SUBSTRUCTURE GEOMETRY

Navigation Control (38): Permit Required Nav Vert Clearance (39):

134.52 Nav Horiz Clearance (40): 321.85

Pier Protection (111): 2 In-Place, Functioning

Lift Bridge Vertical

Clearance (116):

Scour Rating (113): 3 SC - Unstable

9 Above Desirable Waterway Adequacy (71):

1998 2007 2009 2011 2013 2015 2017 2019 2021

SUBSTRUCTURE CONDITION Substructure Rating (60): 6 Satisfactory

6 Bank Slumping Channel Rating (61):

1ST ROUTE UNDER: Gano Street

ROADWAY LOCATION

Pos Prefix (5A): 1st Route Under Kind of Hwy (5B): 5 City Street Route Num (5D):

LRS Route (13A/B): Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B): 2

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 17 Urban Collector Level Service (5C): 1 Mainline NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy Toll Facility (20): 3 On free road ADT (29):

81,000 Cars/Day

Pct Trucks (109): 13.00% ADT Year (30): 2021

Vertical (10): 26.50

Min Vert Over (53): 17.00 20.75 Vert Ref (54A): H Hwy beneath struct

**CLEARANCES** 

Horizontal (47): 89.00 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50

Horiz Ref (55A): H Hwy beneath struct 9 Above Desirable Underclearance (69):

2ND ROUTE UNDER: Water Street

ROADWAY LOCATION

Pos Prefix (5A): 2nd Route Under

Kind of Hwy (5B): 5 City Street Route Num (5D):

LRS Route (13A/B): Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B):

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 19 Urban Local Level Service (5C): 1 Mainline NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy Toll Facility (20): 3 On free road

ADT (29): 81,000 Cars/Day

Pct Trucks (109): 13.00% ADT Year (30): 2021

**CLEARANCES** 

Vertical (10): 27.17 Min Vert Over (53):

17.00 20.75

Vert Ref (54A): H Hwy beneath struct

Horizontal (47): 27.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50

Horiz Ref (55A): H Hwy beneath struct Underclearance (69): 9 Above Desirable

3RD ROUTE UNDER: Waterfront Drive

ROADWAY LOCATION

3rd Route Under Pos Prefix (5A): Kind of Hwy (5B): 5 City Street

Route Num (5D): 0 LRS Route (13A/B):

Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B):

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 19 Urban Local Level Service (5C): 2 Alternate NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy

Toll Facility (20): 3 On free road ADT (29): 81,000 Cars/Day

Pct Trucks (109): 13.00% ADT Year (30): 2021

**CLEARANCES** 

Vertical (10): 20.75

Min Vert Over (53): 17.00 20.75

Vert Ref (54A): H Hwy beneath struct

Horizontal (47): 35.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50

Horiz Ref (55A): H Hwy beneath struct

Underclearance (69): 9 Above Desirable

Filed in Providence/Bristol County Superior Court

Driven to get you there

Submitted: 10/31/2024 9:38 AM Envelope: 4861673
Reviewer: Alexandra R.

# RIDOT Bridge Inspection Report

Washington Bridge South

020001

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date 07/21/2023

Bridge Condition Fair

ROUTE ON STRUCTURE: I-195 EASTBOUND

ROADWAY LOCATION

Pos Prefix (5A): Route On Structure

Kind of Hwy (5B): 1 Interstate Hwy

Route Num (5D): 00195

LRS Route (13A/B): 6600/00

Milepost (11): 1.43 mi (2.30 km)

Suffix (5E): 2 Fact

Suffix (5E): 2 East
Lanes On (28A): 5
Detour Length (19): 1.90 m

**Detour Length (19):** 1.90 mi (3.06 km)

ROADWAY CLASSIFICATION CI

Funct Class (26): 11 Urban Interstate

Level Service (5C): 1 Mainline

NHS (104): 1 On the NHS

Defense Hwy (100): 1 On Interstate STRAHNET

Toll Facility (20): 3 On free road
ADT (29): 81,000 Cars/Day

Pct Trucks (109): 13.00% ADT Year (30): 2021 **CLEARANCES** 

 Vertical (10):
 99.99

 Min Vert Over (53):
 17.00
 20.75

 Vert Ref (54A):
 H Hwy beneath struct

Horizontal (47): 83.80
Min Lat Left (56): 0.00
Min Lat Right (55B): 14.50

Horiz Ref (55A): H Hwy beneath struct Underclearance (69): 9 Above Desirable

#### **BRIDGE NOTES**

Orientation: The Bridge runs West to East, with the spans and piers numbered from West to East. The girders are labeled A through J from North to South in each span. In the Southeast corner of Span 14, there are two additional kicker beams, Kicker Beams K and L, supporting the Exit 4 ramp. The interior diaphragms are numbered from West to East, starting again from 1 in each span.

EQUIPMENT REQUIRED: 60' Manlift, Barge with 60' Manlift for spans over water, Local Police, Traffic Control, and Crash Truck.

TRAFFIC CONTROL INFORMATION: Need traffic control for work in Span 1 over Gano Street, Span 14 over Waterfront Drive and Water Street and for the topside inspection.

POLICE DETAIL NEEDED: Need police detail for work in Span 1 over Gano Street, Span 14 over Waterfront Drive, and for the topside inspection.

INSPECTION NOTES

Case Number: PC-2024-04526
Filed in Providence/Bristol County Superior Court

Submitted: 10/31/2024 9:38 AM Envelope: 4861673 Reviewer: Alexandra R.

# RIDOT Bridge Inspection Report

Washington Bridge South

020001

Inspected By AECOM-COMMONWEALTH
Inspector:

Inspection Date 07/21/2023

#### **Bridge Condition Fair**

Routine Inspection Completed by Commonwealth Engineers and Consultants, Inc.

Team Leaders:

Final Inspection Date: 7/21/23

Weather: Varied from Rainy/cloudy - 72 degrees Fahrenheit to sunny - 85 degrees Fahrenheit

The scope of work was to perform a routine inspection of the bridge.

No significant changes in the condition of the structure were observed during this inspection, and therefore the NBI condition ratings remain unchanged:

Deck (58) – 7 Good Superstructure (59) – 7 Good Substructure (60) – 6 Satisfactory

During the previous Routine Inspection that was completed on 7/23/2021 numerous cross frame welded connection plates to the girders were reported to have defects consisting of incomplete fusion. These "defects" were previously reported to RIDOT and dye penetrant testing was performed on select welds to check for cracks. The tests did not revealed any cracks.

RIDOT made archived fabrication reports and welding reports available for review, however none of these reports mentioned any type of defects to the diaphragm welds. In these reports the summaries to the diaphragm welds stated that the "welding was within approved procedure" or "Welding was within W33 parameters". Due to the fact that some of these "weld defects" are located at the painted over girder ends, this indicates that the welds were there during fabrication prior to painting of the girders.

During this routine inspection these previously noted weld area "defects" were visually inspected and observed not to have changed since the previous inspection. Comparison to previous inspections reports, indicates that the "defects" were perhaps undercut weld areas which required additional passes to achieve the minimum weld size required during fabrication.

These weld locations should, however, continue to be monitored for cracks or change in condition during future inspections. Refer to Item 107 and attachment "020001 Table 2 - Weld Defects.pdf" for a detailed description and locations of weld "defects".

Utilities - In Span 2, Bay G, there are three drain pipes through the concrete deck that exhibit rust. On the exterior face of the South Railing at Pier 9, the electrical conduit flexible coupling at the joint is torn and detached (See photo 103). In Span 12, there is a cable secured along Interior Diaphragm 2 in Bays A through H. The conduit mounted to the underside of Girder G in Span 14 near Interior Diaphragm 3 exhibits moderate rust on the North end.

Under bridge Lights – There are four lights over Waterfront Drive which were on during the inspection and three lights over Water Street which were off during the inspection.

Light Standards – There are ten lights spaced evenly along the north and south side of the bridge. Most of the lights were not on at the time of the inspection and it is unknown if they function. Refer to attachment "020001 Table 3 - Lighting Standard Defects.pdf" (See photos 11, 15 and 17).

There are areas of construction debris/equipment that is for the ongoing construction work for adjacent Br. 070001 that is being stored under Br. 020001 (See photos 113, 114, 117, 118 and 121).

2021 Underwater Inspection Notes:

Fender System – There is a timber fender system in place along the East side of Pier 6 and the West side of Pier 7. The timber fender system members exhibit minor splits and checking along with damaged or missing handrails (See photo 81). The dolphin pile groups at the South (downstream) end of the fenders exhibit no significant

Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court

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## **RIDOT Bridge** Inspection Report

**Washington Bridge South** 

020001

Inspector:

Inspection Date 07/21/2023

Inspected By AECOM-COMMONWEALTH

**Bridge Condition Fair** 

defects.

Navigational Lighting - The navigational lighting system in place exhibits no significant deficiencies . However, the lights were not on at the time of the inspection.

Channel Debris - There are no obstructions or debris accumulation which would affect the hydraulic opening at the

1293   Re Concrete Deck	0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00
1080/3   Detarmination/Spall/Patched Area   1.00   0%   0.00   100%   1.00   0%   0.00   1120/3   Efflorescence/Rust Staining   1.00   0%   0.00   100%   1.00   0%   0.00   0%   0.00   1130/3   Cracking (RC and Other)   1.00   100%   1.00   0%   0.00   0%   0.00   0%   0.00   0%   0.00   119/491.00   0%   0.00   0%	0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00
1120/3   Efforescence/Rust Staining   1.00   0%   0.00   100%   1.00   0%   0.00   1150/3   Cracking (RC and Other)   1.00   100%   1.00   0%   0.00   0%   0.00   0%   0.00   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   119,491.00   0%   0.00   100%   100	0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00
1130/3   Cracking (RC and Other)   1.00   100%   1.00   0%   0.00   0%   0.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00   119/491.00   0%   0.00	0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00
11903	0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00
1973   Steel Opn Girder/Beam   16,364.00   100%   16,334.00   0%   24.00   0%   6.00   0%   100%   15.33   Steel Opn Girder/Beam   16,364.00   100%   16,334.00   0%   24.00   0%   6.00   0%   10003   Corrosion   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   100%   15.00   0%   0.00   0%	0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00
107/3   Steel Opn Girder/Beam   16,364.00   100%   16,334.00   0%   24.00   0%   6.00   0%   515/3   Steel Protective Coating   247,490.00   98%   242,490.00   2%   5,000.00   0%   0.00   1000/3   Corrosion   15.00   0%   0.00   100%   15.00   0%   0.00   1000/3   Connection   12.00   0%   0.00   50%   6.00   50%	0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00           0%         0.00
S15/3   Steel Protective Coaling   247,490.00   98%   242,490.00   2%   5,000.00   0%   0.00   1000/3   Corrosion   12.00   0%   0.00   100%   15.00   0%   0.00   1020/3   Connection   12.00   0%   0.00   100%   3.00   0%   0.00   0.00   100%   3.00   0%   0.00   0.	0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00
1000/3   Corrosion   15.00   0%   0.00   100%   15.00   0%   0.00   1000/3   Connection   12.00   0%   0.00   50%   6.00   50%   6.00   6.00   7000/3   Damage   3.00   0%   0.00   100%   33.00   0%   0.00   0	0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00
1020/3   Connection   12.00   0%   0.00   50%   6.00   50%   6.00   6.00   7000/3   Damage   3.00   0%   0.00   100%   3.00   0%   0.00	0% 0.00 0% 0.00 0% 0.00 0% 0.00
T000/3   Damage   3.00   0%   0.00   100%   3.00   0%   0.00   0	0% 0.00 0% 0.00 0% 0.00
205/3   Re Conc Column   39.00   100%   39.00   0%   0.00   0%	0% 0.00 0% 0.00 0% 0.00
8368/3   Graffiti   1,190.00   100%   1,190.00   0%   0.00   0%	0% 0.00
210/3   Re Conc Pier Wall   587.00   50%   293.00   50%   292.00   0%   2.00   0%   1080/3   Delamination/Spall/Patched Area   3.00   0%   0.00   100%   3.00   0%   0.00   1120/3   Efflorescence/Rust Staining   1.00   0%   0.00   100%   1.00   0%   0.00   1130/3   Cracking (RC and Other)   472.00   62%   293.00   38%   179.00   0%   0.00   1190/3   Abrasion(PSC/RC)   10.00   0%   0.00   80%   8.00   20%   2.00   1000/3   Settlement   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   1120/3   Efflorescence/Rust Staining   1.00   0%   0.00   100%   1.00   0%   0.00   0%   0.00   1130/3   Cracking (RC and Other)   168.00   100%   168.00   0%   0.00   0	0.00
1080/3   Delamination/Spall/Patched Area   3.00   0%   0.00   100%   3.00   0%   0.00   1120/3   Efflorescence/Rust Staining   1.00   0%   0.00   100%   1.00   0%   0.00   1130/3   Cracking (RC and Other)   472.00   62%   293.00   38%   179.00   0%   0.00   1190/3   Abrasion(PSC/RC)   10.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   100%   1.00   0%   0.00   1120/3   Efflorescence/Rust Staining   1.00   0%   0.00   100%   1.00   0%   0.00   1130/3   Cracking (RC and Other)   168.00   100%   168.00   0%   0.00	Contractive Contra
1120/3         Efflorescence/Rust Staining         1.00         0%         0.00         100%         1.00         0%         0.00         1         0%         0.00         0.00         0%         0.00         0.00         0%         0.00         0         0.00         0%	The second secon
1130/3         Cracking (RC and Other)         472.00         62%         293.00         38%         179.00         0%         0.00           1190/3         Abrasion(PSC/RC)         10.00         0%         0.00         80%         8.00         20%         2.00         0           4000/3         Settlement         1.00         0%         0.00         100%         1.00         0%         0.00         1           6000/3         Scour         100.00         0%         0.00         100%         100.00         0%         0.00         0	0.00
1190/3   Abrasion(PSC/RC)   10.00   0%   0.00   80%   8.00   20%   2.00   0	0% 0.00
4000/3   Settlement   1.00   0%   0.00   100%   1.00   0%   0.00   0.0	0% 0.00
6000/3         Scour         100.00         0%         0.00         100%         100.00         0%         0.00         100%         100.00         0%         0.00         100%         3,240.00         0%         0.00         100%         3,240.00         0%         0.00	0% 0.00
8368/3         Graffiti         3,240.00         0%         0.00         100%         3,240.00         0%         0.00         100%         3,240.00         0%         0.00         0%           215/3         Re Conc Abutment         171.00         98%         168.00         2%         3.00         0%         0.00         0%           1080/3         Delamination/Spall/Patched Area         2.00         0%         0.00         100%         2.00         0%         0.00         0           1120/3         Efflorescence/Rust Staining         1.00         0%         0.00         100%         1.00         0%         0.00         0           1130/3         Cracking (RC and Other)         168.00         100%         168.00         0%         0.00         0%         0.00         0%           220/3         Re Conc Pile Cap/Ftg         218.00         99%         216.00         1%         2.00         0%         0.00         0%	0% 0.00
215/3         Re Conc Abutment         171.00         98%         168.00         2%         3.00         0%         0.00         0%           1080/3         Delamination/Spall/Patched Area         2.00         0%         0.00         100%         2.00         0%         0.00         1           1120/3         Efflorescence/Rust Staining         1.00         0%         0.00         100%         1.00         0%         0.00         0           1130/3         Cracking (RC and Other)         168.00         100%         168.00         0%         0.00         0%         0.00         0%           220/3         Re Conc Pile Cap/Ftg         218.00         99%         216.00         1%         2.00         0%         0.00         0%	0% 0.00
1080/3         Delamination/Spall/Patched Area         2.00         0%         0.00         100%         2.00         0%         0.00         1           1120/3         Efflorescence/Rust Staining         1.00         0%         0.00         100%         1.00         0%         0.00         0         0.00         0%         0.00	0% 0.00
1120/3         Efflorescence/Rust Staining         1.00         0%         0.00         100%         1.00         0%         0.00         I           1130/3         Cracking (RC and Other)         168.00         100%         168.00         0%         0.00         0%         0.00         0           220/3         Re Conc Pile Cap/Ftg         218.00         99%         216.00         1%         2.00         0%         0.00         0%	0.00
1130/3         Cracking (RC and Other)         168.00         100%         168.00         0%         0.00         0%         0.00         0%           220/3         Re Conc Pile Cap/Ftg         218.00         99%         216.00         1%         2.00         0%         0.00         0%	0% 0.00
220/3 Re Conc Pile Cap/Ftg 218.00 99% 216.00 1% 2.00 0% 0.00 0%	0% 0.00
210.00	0% 0.00
44002 Abraian/DC/DC/	0.00
1190/3   Abrasion(PSC/RC)   218.00   99%   216.00   1%   2.00   0%   0.00   0	0% 0.00
225/3 Steel Pile 6.00 100% 6.00 0% 0.00 0% 0.00 0%	0.00
1000/3 Corrosion 1.00 100% 1.00 0% 0.00 0% 0.00	0% 0.00
234/3 Re Conc Pier Cap 920,00 99% 909.00 1% 11.00 0% 0.00 0%	0.00
1080/3 Delamination/Spall/Patched Area 2.00 0% 0.00 100% 2.00 0% 0.00	0% 0.00
1120/3 Efflorescence/Rust Staining 1.00 0% 0.00 100% 1.00 0% 0.00	0% 0.00
1130/3 Cracking (RC and Other) 917.00 99% 909.00 1% 8.00 0% 0.00	0% 0.00
300/3 Strip Seal Exp Joint 68.00 0% 0.00 34% 23.00 66% 45.00 0%	0.00
2340/3 Seal Cracking 45.00 0% 0.00 0% 0.00 100% 45.00	
2350/3 Debris Impaction 23.00 0% 0.00 100% 23.00 0% 0.00	0% 0.00
301/3 Pourable Joint Seal 161.00 100% 161.00 0% 0.00 0% 0.00 0%	0% 0.00 0% 0.00
	0% 0.00
	0% 0.00
Annual State of the State of th	0% 0.00
321/3 Re Conc Approach Slab 2,212.00 26% 582.00 74% 1,630.00 0% 0.00 0%	0% 0.00 0% 0.00 19% 42.00
510/3 Wearing Surfaces 782.00 62% 482.00 38% 300.00 0% 0.00	0% 0.00 0% 0.00 19% 42.00 100% 42.00 0% 0.00

Filed in Providence/Bristol County Superior Court

Submitted: 10/31/2024 9:38 AM

Envelope: 4861673 Reviewer: Alexandra R.

## RIDOT Bridge Inspection Report

**Bridge Condition Fair** 

## Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date

07/21/2023

020001

Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
3220/3	Crack (Wearing Surface)	170.00	0%	0.00	100%	170.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	100.00	100%	100.00	0%	0.00	0%	0.00	0%	0.00
1190/3	Abrasion(PSC/RC)	1,160.00	0%	0.00	100%	1,160.00	0%	0.00	0%	0.00
331/3	Re Conc Bridge Railing	3,318.00	100%	3,317.00	0%	0.00	0%	1.00	0%	0.00
1130/3	Cracking (RC and Other)	3,309.00	100%	3,309.00	0%	0.00	0%	0.00	0%	0.00
7000/3	Damage	9 00	89%	8 00	0%	0 00	11%	1 00	0%	0 00
8060/3	Scupper	26.00	31%	8.00	4%	1.00	27%	7.00	38%	10.00
8107/3	Steel Opn Girder/Beam END	310.00	100%	310.00	0%	0.00	0%	0.00	0%	0.00
515/3	Steel Protective Coating	3,710.00	100%	3,710.00	0%	0.00	0%	0.00	0%	0.00
8213/3	R/C Return Wall	70.00	100%	70.00	0%	0.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	70.00	100%	70.00	0%	0.00	0%	0.00	0%	0.00
8218/3	Backwall, All Types	171.00	98%	168.00	1%	1.00	1%	2.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	2.00	0%	0.00	0%	0.00	100%	2.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	168.00	100%	168.00	0%	0.00	0%	0.00	0%	0.00
8316/3	Isolation Bearing	172.00	18%	31.00	75%	129.00	7%	12.00	0%	0.00
1000/3	Corrosion	4.00	0%	0.00	100%	4.00	0%	0.00	0%	0.00
1020/3	Connection	57.00	0%	0.00	79%	45.00	21%	12.00	0%	0.00
2220/3	Alignment	38.00	0%	0.00	100%	38.00	0%	0.00	0%	0.00
2230/3	Bulging, Splitting or Tearing	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
2240/3	Loss of Bearing Area	40.00	0%	0.00	100%	40.00	0%	0.00	0%	0.00
8370/3	Steel Diaphragms	805.00	100%	804.00	0%	1.00	0%	0.00	0%	0.00
515/3	Steel Protective Coating	24,200.00	100%	24,200.00	0%	0.00	0%	0.00	0%	0.00
1020/3	Connection	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00

#### **ELEMENT NOTES**

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
12	Re Concrete Deck	3	119,494.00	sq.ft	1.00	119,493.00	0.00	0.00

The top of the grooved reinforced concrete deck is bare, with no wearing surface. The top of the deck was observed to have wheel line rutting, minor sand/debris accumulation, transverse and longitudinal cracks, minor wear, and spalling/minor scaling throughout (See photos 2, 3, 7, 8, 12, 14, 19, 21, 22 and 23). The underside of the deck is covered with stay-in-place forms except for in Bay G and both overhangs. The forms were observed to have areas of light to heavy rust and corrosion with isolated areas of section loss (See photos 46, 57, 69, 71, 79, 86, 98, 109, 110, 111, 112, 116, 120 and 130). The exposed portions of the deck underside were observed to have transverse cracks with and without efflorescence, isolated spalls/scaling and anchor bolt holes (See photos 39, 53, 96, 99 and 131).

1080 Delamination/Spall/Patched Are3 1.00 sq.ft 0.00 1.00 0.00 0.00

Case Number: PC-2024-04526
Filed in Providence/Bristol County Superior Coul

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

Submitted: 10/31/2024 9:38 AM Envelope: 4861673 Reviewer: Alexandra R.

# RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspection: 07/21/2023

0.00

0.00

#### **Bridge Condition Fair**

Top of Deck:

At the West Abutment in the header adjacent to the pourable joint seal there is a 6" long x 2' wide x 2" deep spall and two (2) spalls measuring up to 6" wide x 1' long x 1" deep (See photos 2 and 3).

In Span 5 adjacent to the pier #4 joint in the right lane there is a 1'-3" wide x 3" long x 1" deep spall (See photo 12).

In Span 11 there is a small concrete repair patch with light map cracking (See photo 19).

At the East Abutment in the header adjacent to the pourable joint there are two (2) bituminous patches and a spall up to 1" deep (See photos 22 and 23).

Underside of Deck:

The exposed deck underside throughout Bay G was observed to have evenly spaced anchor bolt holes near Girder G. Some of these holes have been filled while others have not. Some have exposed anchor bolts hanging out of the holes (See photo 39)

Span 4 – In Bay G at Pier #4 there is a 3" long x 8" wide x 1" deep spall along the cold joint (See photo 53).

Span 13- in Bay G near the 1st intermediate diaphragm there is a 3'-6" wide x 2'-5" wide x  $\frac{1}{2}$ " deep area of spalling/scaling.

Span 14 – In Bay G along the longitudinal cold joint the deck was observed to have areas of chipping concrete (See photo 131).

1120 Efflorescence/Rust Staining 3 1.00 sq.ft 0.00 1.00 0.00 0.00

Underside of Deck:

The underside of the exposed deck in Bay G and both overhangs were observed to have scattered transverse hairline cracks with and without efflorescence (See photos 39, 99 and 131).

Throughout the underside of Bay G there are evenly spaced anchor bolt holes near Girder G, some of the holes show signs of leakage.

The following locations were observed to have minor leakage along the longitudinal deck joint in Bay G:

West Abutment #1

1130

Span 4 at Pier #4 (See photo 53). Span 9 at Pier #9 (See photo 96).

Cracking (RC and Other) 3 1.00 sq.ft 1.00 0.

The top of the exposed deck was observed to have full width hairline cracks spaced every 2'to 3' in all spans. There are also areas of moderate to wide transverse and longitudinal cracks scattered throughout (See photos 7, 8 and 14).

Underside of Deck:

The exposed deck underside in Bay G was observed to have scattered transverse hairline cracks spaced 3' to 6' apart throughout the bridge (See photos 39 and 131).

The underside of both overhangs was observed to have scattered cracks with and without efflorescence, some of these cracks extend onto the vertical face of the barriers (See photo 99)

1190 Abrasion(PSC/RC) 3 119,491.00 sq.ft 0.00 119,491.00 0.00 0.00

The exposed top of deck was observed to have light to heavy wear scattered throughout, minor chips in the concrete and isolated scrapes (See photos 14 and 21).

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## RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

07/21/2023

**Bridge Condition Fair** 

Inspection Date

8382

Stay-in-Place Form

97,500.00

sq.ft

93,375.00

4,125.00

0.00

0.00

Underside of Deck:

There are stay-in-place forms in all bays except for Bay G throughout the bridge. The forms were observed to have scattered areas of light to heavy rust/corrosion, mainly at the interfaces between the adjacent form sections, especially in Bays A and I. Areas of rust cover up approximately 5% of the bay area in several spans (See photos 46, 57, 69, 71, 79, 86, 98, 109, 110, 111, 112, 116, 120 and 130).

In Span 5, Bay I near Pier 4, the drain connection to the deck exhibits moderate rust and the stay-in-place form around the connection exhibits corrosion.

In Span 6, Bay A near Pier 5, the drain connection to the deck exhibits moderate rust and the stay-in-place form around the connection exhibits corrosion (See photo 69).

In Span 11, Bay A, near Interior Diaphragm 2, the stay-in-place form exhibits a 1'-6" long x 4' wide area of up to 100% section loss (See photo 110).

In Span 11, Bay I at Pier 12, the drain connection to the deck exhibits moderate to heavy rust and the stay-in -place form around the connection exhibits light corrosion/rust (See photo 111).

In Span 14, Bay F, near Interior Diaphragm 3, the stay-in-place form exhibits a 1' long x 3' wide area of rust.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
107	Steel Opn Girder/Beam	3	16,364.00	ft	16,334.00	24.00	6.00	0.00

The superstructure consists of ten weathering steel plate girders, continuous over all piers except Piers 4 and 9. Span 14 is splayed at the East Abutment, with two rolled section kicker beams that support the flared section of deck along the South side of the bridge (See photo 130). At various locations along the girders, primarily at connection points between the diaphragms and girders, there are weld areas that were previously reported as weld defects (See photos 138 through 142). These defects were listed as incomplete fusion. These weld defects have not changed since the previous routine inspection, which was completed on 7/23/21. During the previous routine inspection dye penetrant tests were performed on several of the defective welds to determine if the welds had cracked, and all test results indicated that no cracks were present. For specific locations of weld defects, see attachment "020001 Table 2 - Weld Defects.pdf". These locations should be continued to be monitored in future inspections. There are several locations of concrete overpour on the girder webs and bottom flanges throughout the bridge (See photos 45, 94 and 119). Additionally, the girders typically exhibit a gap between webs at the field splice locations. At random locations throughout the Bridge, the girders exhibit 1/8" high bends in the bottom flanges and a few locations with up to 3/4" high bends (See photos 44 and 94). The following locations exhibit minor defects as follows: There are scattered locations of mis-drilled/unused holes throughout the girders. Spans 4 and 5, Girders A and J - Girders do not exhibit the positive camber exhibited by adjacent girders and same girders in other spans. Span 11, Girders A, B and C - Girders do not exhibit the positive camber exhibited by adjacent girders and same girders in other spans, as previously noted in the 2015 Routine Inspection.

515 **Steel Protective Coating** 247,490.00 sa.ft 242,490.00 5.000.00 0.00 0.00 Case Number: PC-2024-04526
Filed in Providence/Bristol County Superio

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

Submitted: 10/31/2024 9:38 AM Envelope: 4861673 Reviewer: Alexandra R.

# RIDOT Bridge Inspection Report

Washington Bridge South

020001

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date 07/21/2023

#### **Bridge Condition Fair**

The weathering steel girders exhibit a normal surface patina with some scattered areas of yellow to orange rust, most common along the top flanges, with isolated locations of patina not forming (See photo 95).

The end 8' to 11' of the girders are painted below the deck joints at the abutments and at Piers #4 and #9. The painted girder ends have isolated locations of chipped, peeling and bubbling paint.

Specific coating deficiencies are as follows:

Span 1, West Abutment, Girder A - Bottom flange exhibits a 1'-6" long x 9" wide area of peeling/bubbling paint (top and underside of flange) extending 4" high on the North Face of the web.

Span 5, Pier 5, Girder A, North Face - Girder exhibits inconsistent coating.

Span 10, Pier 9, Girder G and Girder H - Backside of bearing stiffeners not painted.

Span 12 - Several girders exhibit scattered areas of orange rust.

Span 14, Girder G, near Intermediate Diaphragm 1 - Splice plate exhibits loss of oxidized coating.

 $1000 \qquad \text{Corrosion} \qquad \qquad 3 \qquad \qquad 15.00 \qquad \text{ft} \qquad \quad 0.00 \qquad \qquad 15.00 \qquad \qquad 0.00 \qquad \qquad 0.00$ 

Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court

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RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

07/21/2023

Inspection Date

#### **Bridge Condition Fair**

In all spans, Girder A exhibits scattered light areas of laminar rust on the North side and underside of the bottom flange.

In Span 1, the underside of the bottom flange of Girder B has minor laminar rust (See photo

In Span 2, both faces of Girder A at the splice exhibits rust along the bottom flange (See photo 36).

In Span 3, Girder A at the field splice exhibits laminar rust at the base of the girder web (See photo 43). Between Interior Diaphragms 4 and 5, Girder H exhibits 4' long x full width area of laminar rust on the underside of the bottom flange that continues 14' long x 3" high onto the North Face of the web. Girder I at the field splice exhibits rust along the bottom flange splice plate.

In Span 4 at the West field splice, Girder A exhibits 3" high x 1/16" thick laminated rust to the bottom of the web (See photo 51). Near Pier 4, Girder J exhibits corrosion and flaking to the underside of the bottom flange.

In Span 5 at the field splice, Girder A exhibits laminated rust up to 1/16" thick at base of the web and bottom flange around the splice plates and laminated rust to the underside of the splice plate and bolts (See photo 62). On the South Face of Girder H, the top flange exhibits moderate rust between Interior Diaphragms 1 and 2.

In Span 6, the underside of Girder A near Pier #5 was observed to have laminar rust that extends from the pier to the field splice (See photo 70).

In Span 7, the North Face of Girder A exhibits areas of laminar rust at the base of the web up to 3" high near the West and East Field Splices. The South Face of Girder A also exhibits minor laminar rust on the splice plates at the West Field Splice.

In Span 8 from Pier 8 to the East Field Splice, Girder A exhibits laminated rust along the underside of the bottom flange (See photo 84).

In Span 11 between Interior Diaphragms 1 and 2, Girder A exhibits a 7'-0" long x full height area of moderate to heavy rust/corrosion on both flanges and the web (See photos 108 and 110). Between Interior Diaphragms 2 and 4, Girders A and B exhibit minor to moderate rust.

In Span 13, the North Face of Girder A at the field splice exhibits 3" high x 4' long x up to 1/8" deep section loss along the bottom of the web.

In Span 14, Girder A at the West field splice was observed to have a 4' long x 3" high area of rust on the girder web (See photo 125). The North Face of Girder A at the East field splice has a 6' long x 4" high x 1/16" deep area of section loss along the bottom of the web (See photo 126).

1020 Connection 12.00 0.00 6.00 6.00 0.00

In Span 4 at the Girder F field splice, a bolt head on the bottom flange is not flush with the splice plate (See photo 52).

In Span 7, Girder G exhibits three (3) missing bolts in the bottom flange splice plate of the West Field Splice (See photo 77) and one missing bolt in the bottom flange splice plate at the East Field Splice (See photo 78).

In Span 8, on the North Face of Girder G at the East field splice, the splice plate on top of the bottom flange is bent up to 1/8" high (See photo 85).

In Span 9, at the Girder A field splice, there is one loose and undersized bolt in the bottom flange (See photo 93).

In Span 14, on the North Face of Girder B at the field splice - One nut is backed off at the top flange splice plate (See photo 127).

7000 Damage 3 3.00 0.00 3.00 0.00 0.00

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Reviewer: Alexandra R

### **RIDOT Bridge** Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

07/21/2023

#### **Bridge Condition Fair**

Inspection Date

Span 2, Girder I, near Interior Diaphragm 3 - Bottom flange is bent upward 3/4" high over a 2' length (See photo 38).

Span 2, Girder J near Interior diaphragm 3 - the bottom flange is bent slightly upwards (See photo 37).

Span 14, Girder B, South face, between Interior Diaphragms 3 and 4 - 2" long x 1/4" high gouge in bottom edge of bottom flange (See photo 128).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
205	Re Conc Column	3	39.00	each	39.00	0.00	0.00	0.00

There are three (3) reinforced concrete columns at each pier. Column A (north column) is supported on an independent drilled shaft while columns B and C (center and south columns) are supported by a reinforced concrete pier wall with a stone masonry façade that was part of the original structure (See photos 40, 47, 50, 58, 60, 64, 67, 72, 74, 80, 82, 83, 87, 88, 100, 104, 106, 107, 113, 114, 117, 118, 121 and 123).

8368

Graffiti

1,190.00

1,190.00

0.00

0.00

0.00

The columns were observed to have areas of graffiti, especially at the piers on land (See photos 50, 80, 82, 83, 87, 106, 107, 113, 114, 117, 118, 121 and 123).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
210	Re Conc Pier Wall	3	587.00	ft	293.00	292.00	2.00	0.00

The reinforced concrete pier walls are part of the original structure and support columns B and C. The piers were observed to have a stone masonry façade from below the water surface to the top of the pier wall. There are scattered areas of missing mortar between masonry stones and random cracked stones (See photos 47, 50, 58, 60, 64, 67, 72, 74, 80, 82, 83, 87, 88, 100, 104, 106, 107, 113, 114, 117, 118, 121 and 123). Note that there is vagrant debris at the base of Pier #6 and #7 (See photo 83). Since much of the pier walls are below the water line, information from the 2021 Underwater Inspection has been included below. For detailed descriptions of underwater deficiencies and related photos, see the 2021 Underwater Inspection Report. Notes from the 2021 Underwater Inspection: The reinforced concrete pier walls are part of the original I-195 Eastbound structure and support Columns B and C and support the arches (Arches E and F) along with the Pedestrian / Bike Path Bridge (Br. No. 020021). For the Underwater Inspection, the pier wall for Bridge No. 020001 and Bridge No. 020021 was inspected and reported as a single structure. Piers 4 through 9 were included in the underwater inspection from the top of the stone masonry facade (bottom of the pier cope) to the channel bottom. The stone masonry has scattered areas of missing mortar, up to 15% with penetrations 3" to 6" deep between the stones, cracked stones and missing stones. The piers also exhibit intermittent areas of footing/pile cap exposure with minor abrasion of the concrete.

1080 Delamination/Spall/Patched Are3

0.00

0.00

3.00

0.00

0.00

At Pier 6 there are intermittent voids up to 3'-0" long x 6" high x 6" deep along the interface of the stone facade and the concrete pier wall. There is a missing stone 2'-0" long x 2-1/2" high on the East Face (See photo 75).

At Pier 7 on the West Face, there is a missing stone 3'-6" long x 5'-0" high (See photo 81).

At Pier 10, there is a spall 1'-0" high x 1'-0" wide x 2" deep on top of the southwest corner of the pier wall.

1120 Efflorescence/Rust Staining

1.00

1.00

0.00

0.00

At Pier 13 there are two full height x up to 1/16" wide cracks with moderate efflorescence, one on the West Face and one on the East Face.

Cracking (RC and Other)

472.00

ft

293.00

179.00

0.00 0.00

1130

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4000

Settlement

# RIDOT Bridge Inspection Report

Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date

1.00

0.00

0.00

07/21/2023

020001

#### **Bridge Condition Fair**

The pier walls typically exhibit scattered vertical hairline cracks. Wider and more extensive

cracking is present as follows:

Pier #6 - On the west face of the pier near the north end there is a full-height crack in the stone (See photos 72 and 73).

Pier #9 – The top face and west face between columns B and C were observed to have widespread areas of map cracking throughout (See photo 101).

Pier #10 – South of column C there are three (3) full-width x 1/8" wide transverse cracks across the top of the pier wall that extends down the vertical faces of the wall. There is also a 3' high x 1/8" wide vertical crack on the northwest corner.

Pier #12 – On the west face below Girder I there is a full height hairline crack. On the east face there is a full height x 1/16" wide crack between columns B and C.

1190 Abrasion(PSC/RC) 3 10.00 ft 0.00 8.00 2.00 0.00

Notes from the 2021 Underwater Inspection have been retained below:

The piers typically exhibit abrasion up to 1/2" deep throughout the exposed reinforced concrete below the stone facade and isolated areas of poor consolidation/section loss up to 1" deep. Specific locations of abrasion on the exposed reinforced concrete are as follows:

At Pier 5 there is a band of scaling full width x 3'-0" high x up to 3/4" deep across the North nose.

At Pier 7 there are various locations of scaling/section loss typically between 2-1/2" to 3-1/2 " deep on all four faces of the pier near the channel bottom, and up to 5" deep along the

1.00

Southwest corner.

On Piers 9, 10 and 12 there are some medium to wide vertical cracks in the pier walls, however no signs of settlement were observed (See photo 101).

Notes from the 2021 Underwater Inspection have been retained below:

At Pier 7, on both the West and East Faces of the pier, there are up to 1/4" wide vertical cracks extending from the top of the stone masonry facade down to the channel bottom near the midpoint of the pier wall, which may indicate slight settlement of the pier, as previously noted in the 2017 Underwater Inspection Report.

6000 Scour 3 100.00 ft 0.00 100.00 0.00 0.00

Notes from the 2021 Underwater Inspection have been retained below:

Since the 2017 Underwater Inspection, the exposure of the pile caps has remained relatively unchanged, with the exception of Pier 8. The pile cap exposure at Pier 8 has increased 1'-6" vertically and there is seal exposure up to 1-3" high. The previously noted exposure of the steps/pile caps at Piers 4 and 5 has remained relatively unchanged, there is no pile cap exposure observed at Piers 6 and 7, and the pile cap at Pier 9 has become exposed along the West side of the pier.

8368 Graffiti 3 3,240.00

Graffiti 3 3,240.00 ft 0.00 3,240.00 0.00 0.00

The pier walls that are on land were observed to have areas of graffiti (See photos 50, 80, 82, 83, 101, 104, 106, 107, 113, 114, 117, 118, 121 and 123).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
215	Re Conc Abutment	3	171.00	ft	168.00	3.00	0.00	0.00

Filed in Providence/Bristol County Superior Court

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Submitted: 10/31/2024 9:38 AM Envelope: 486167;

Reviewer: Alexandra R

# RIDOT Bridge

Washington Bridge South

020001

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Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date 07/21/2023

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Inspection Report

West Abutment #1 is shared between Bridge 020001 and Bridge 070001 to the north, and East Abutment #2 is shared between Bridge 020001 and adjacent Bridge 020021 to the south. Both Abutments were observed to have random hollow areas, minor spalls, hairline cracks with and without efflorescence (See photos 29, 132 and 133).

There are locations of bird debris and construction debris on the West Abutment #1 beam seat (See photos 30 and 31) and the East Abutment #2 beam seat (See photo 136). 1080 Delamination/Spall/Patched Are3 0.00 0.00

On the north face of East Abutment #2 there is an 11" wide x 30" high x 7" deep spall with an adjacent full-height x 12" wide hollow area (See photo 133).

**Bridge Condition Fair** 

1120 Efflorescence/Rust Staining 1.00 0.00 0.00

At the west abutment there are scattered vertical and diagonal cracks, most of which have been sealed. There are random areas of hairline map cracking along the top 10' of the abutment face. There is a 20' long horizontal hairline crack with efflorescence (See photo

At the East Abutment, below Bay D there is a 3'-0" long horizontal crack with efflorescence at mid-height and two 5'-0" long diagonal cracks with efflorescence near the base. Below Bays D and F, there are repaired diagonal cracks with efflorescence near the base. Below Girder J in Bay I, there is a 2'-6" long diagonal crack with efflorescence and rust staining at the base. From below Bay J to the South end, there is efflorescence along the horizontal construction joint at the base (See photo 132).

168.00

At the west abutment there are scattered vertical and diagonal cracks, most of which have been sealed. There are random areas of hairline map cracking along the top 10' of the

3

29)

Cracking (RC and Other)

1130

East Abutment has several areas of repaired diagonal hairline cracks with and without efflorescence and scattered hairline cracks with and without efflorescence (See photo 132).

abutment face. There is a 20' long horizontal hairline crack with efflorescence (See photo

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
220	Re Conc Pile Cap/Ftg	3	218.00	ft	216.00	2.00	0.00	0.00

168.00

0.00

At Pier #10 there is an area of erosion at the northwest corner of the wall that exposes an approximately 22' long portion of the pile cap (See photo 106). For the piers in the water, information from the 2021 Underwater Inspection has been included below. For detailed descriptions of underwater deficiencies and related photos, see the 2021 Underwater Inspection Report. 2021 Underwater Inspection: The pier walls are founded on reinforced concrete pile caps with unknown type piles. The sloped concrete step/pile cap steps out 1'-6" to 2'-0" from the pier face then slopes downward at a 45° angle. At the Southeast corner of Pier 8, there are two timber piles protruding up through the pile cap.

1190 Abrasion(PSC/RC) 218.00 ft 216.00 2.00 0.00 0.00

Notes for the 2021 Underwater Inspection have been retained below:

The pile caps exhibit abrasion up to 1/2" deep on the exposed surfaces.

At Pier 8, the sloped concrete step/pile cap exhibits an area of section loss 2'-0" long x 8" high x 5" deep on the East Face of the pier, located 5' from the southeast corner.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
225	Steel Pile	3	6.00	each	6.00	0.00	0.00	0.00

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Submitted: 10/31/2024 9:38 AM

### Envelope: 486167; Reviewer: Alexandra R

### **RIDOT Bridge** Inspection Report

## Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date

07/21/2023

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020001

#### **Bridge Condition Fair**

This element can only be evaluated from underwater, therefore information from the 2021 Underwater Inspection has been included below. For detailed descriptions of underwater deficiencies and related photos, see the 2021 Underwater Inspection Report. 2021 Underwater Inspection: This element shall be used to rate the condition of the steel encased reinforced concrete caisson piles at the North (upstream) end of the piers. Over the steel casing at the caisson piles, there is a fiberglass jacket in place that extends 13'-6" down from the underside of the concrete cap section, which has no significant deficiencies.

1000 1.00 0.00 0.00 0.00 Corrosion 1.00 each

2021 Underwater Inspection Notes:

At Piers 4 through 9, the steel casing at the caisson piles exhibits minor corrosion with pitting up to 1/16" deep below the fiberglass jackets.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
234	Re Conc Pier Cap	3	920.00	ft	909.00	11.00	0.00	0.00

There are reinforced concrete pier caps at each pier that were observed to have minor spalls and randomly spaced cracks (See photos 34, 40, 41, 47, 48, 58, 60, 64, 65, 67, 72, 74, 80, 82, 87, 88, 89, 91, 100, 104, 106, 107, 113, 114, 117, 118, 121, 123 and 124). Some of the piers were observed to have pigeon debris on the beam seats and some areas of construction debris/steel plates. In spans 6 and 8 there are cables hanging down from adjacent Bridge 070001 that crosses over to Bridge 020001. There is pooling water on the pier cap in Bay J at Pier #9 (See photo 97).

1080 Delamination/Spall/Patched Are3 0.00 2.00 0.00 0.00 2.00

Pier #1 − On the west face there is a 6" long x 3" high x ½" deep spall on the bottom edge between columns A and B (See photo 34).

Pier #13 – On the east face there is a 6" diameter x 3/4" deep spall along the bottom edge between columns A and C.

1120 Efflorescence/Rust Staining 1.00 ft 0.00 1.00 0.00

The pier caps were observed to have scattered vertical and diagonal hairline cracks with light efflorescence (See photos 40 and 88).

The east face of Pier #2 was observed to have two (2) vertical hairline cracks under Girders B and D measuring up to full height with efflorescence (See photo 41).

The east face of Pier #10 was observed to have a 5'-8" high vertical hairline crack with efflorescence that extends down onto the column below Girder B.

The East Face of Pier 11 was observed to have an approximately 5'-0" high vertical hairline crack with efflorescence behind the scupper below Bay A.

The East Face of Pier 13 below Bay I exhibits a full height vertical hairline crack with efflorescence.

1130 Cracking (RC and Other) 917.00 909.00 8.00 0.00 0.00 Case Number: PC-2024-04526 Filed in Providence/Bristol County Superior Court

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### RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector: e 07/21/2023

#### Inspection Date

Reviewer: Alexandra R. Inspection F

The pier caps were observed to have scattered vertical and diagonal hairline cracks with light efflorescence, Piers #6 and 8 have scattered crescent shaped cracks (See photos 34, 40, 64, 88, 89, 113, 114, 117, 118, 121, 123 and 124).

The east face of Pier #2 was observed to have two (2) vertical hairline cracks under Girders B and D measuring up to full height with efflorescence (See photo 41).

The West Face of Pier #3 was observed to have two vertical hairline cracks beneath Girders E and F that extend onto the underside of the cap See photos 47 and 48). Below Girder E, the vertical crack measures 6'-0" high and continues across the full width of the cap underside. Below Girder F, the vertical crack measures 6'-0" high and continues 1'-0" onto the underside of the cap.

The west face of Pier #5 was observed to have two (2) full-height vertical hairline cracks below Girders B and C (See photo 65).

The south end of Pier #8 was observed to have a hairline crack that extends on top of the pier cap and under the masonry plate (See photo 91).

The East Face of Pier #10 was observed to have a full height hairline crack below Girder C and a 2'-11" high hairline crack below Girder I.

There is light to moderate dirt and debris in the joint (See photos 2 and 3).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
300	Strip Seal Exp Joint	3	68.00	ft	0.00	23.00	45.00	0.00

	There is a strip seal ex and depressed neopre					•	ped, missing,			
2340	Seal Cracking	3	45.00	ft	0.00	0.00	45.00	0.00		
	There is transverse cracking in the adjacent header measuring approximately 45' wide x up to 1" wide (See photos 2 and 3).									
2350	Debris Impaction	3	23.00	ft	0.00	23.00	0.00	0.00		

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
301	Pourable Joint Seal	3	161.00	ft	161.00	0.00	0.00	0.00

There is pourable joint sealant at the approach slab joints at both ends of the bridge. At the West Abutment, there are 1'-0" long sections of missing sealant in the Right Lane, Left Center Lane, and Left Lane, and a 2'-0" long section of missing sealant in the Right Center Lane (See photos 2 and 3). At the East Abutment, there is transverse and map cracking throughout the pourable joint with cracks open up to ½" wide (See photos 22 and 23).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
303	Assem Jnt With Seal	3	220.00	ft	0.00	178.00	0.00	42.00

There are modular expansion joints at Piers #4 and #9 and at the East Abutment that have several locations of ripped, missing, and depressed neoprene as well as debris impaction (See photos 12, 13, 18, 22 and 23). In Span 4 at Pier 4, there is plow damage to the joint angle in the Right Shoulder (See photos 12 and 13). At the North End of Pier 4, some of the joint elements on the underside of the joint exhibit corrosion.

2340	Seal Cracking	3	42.00	ft	0.00	0.00	0.00	42.00
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Filed in Providence/Bristol County Superior Court

**Debris Impaction** 

Submitted: 10/31/2024 9:38 AM Envelope: 4861673 Reviewer: Alexandra R

## **RIDOT Bridge** Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

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**Bridge Condition Fair** 

Inspection Date

178.00

07/21/2023

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At the Pier 4 joint, there are several areas where the neoprene seal is damaged or missing in the Right Lane and Right Shoulder (See photos 12 and 13).

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At the Pier 9 joint, the joint exhibits impact damage in the right lane (See photo 18).

At the East Abutment, there are several locations of ripped, missing, and depressed

neoprene seal throughout (See photos 22 and 23). 2350

> The modular joints typically exhibit light to moderate debris impaction throughout, with heavier impaction in the Right Shoulder (See photos 12, 13, 22 and 23).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
321	Re Conc Approach Slab	3	2,212.00	sq.ft	582.00	1,630.00	0.00	0.00

0.00

There are reinforced concrete approach slabs at each end of the bridge. The west approach slab is paved over with a bituminous wearing surface and is not visible (See photo 1). The east approach slab is bare, with no wearing surface and has minor defects (See photos 24 and 25).

510 Wearing Surfaces 782.00 482.00 300.00 0.00 0.00 sq.ft

The west approach slab is paved over with a bituminous wearing surface that was observed to have minor to moderate wheel line rutting, cracking, and bituminous patches (See photo 1).

ELE	EM ELEMENT NA	ME ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
32	220 Crack (Wearing S	urfac 3	170.00	sq.ft	0.00	170.00	0.00	0.00
	The bituminous wea patch over the prev railing (See photo 1	iously mentioned				•		
130	Cracking (RC and Other)	3	100.00	sq.ft	100.00	0.00	0.00	0.00
	The top of the east app off-ramp lane and in the				l longitudinal cra	acks in the		
190	Abrasion(PSC/RC)	3	1,160.00	sq.ft	0.00	1,160.00	0.00	0.00
	The east approach slal	b was observed	to have areas	of minor to m	oderate wear a	s well as a		

few minor gouges and scrapes (See photo 24).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
331	Re Conc Bridge Railing	3	3,318.00	ft	3,317.00	0.00	1.00	0.00

There are reinforced concrete bridge railings along both sides of the bridge. The bridge railings/safety barriers extend beyond the approaches. The railings were observed to have scattered vertical cracks, a few isolated scrapes, and minor gouges (Photo 4, 7, 10 and 11). At the Southwest Approach rail, the safety barriers are misaligned and not secured to each other, leaving a gap between barriers.

1130 Cracking (RC and Other) 3,309.00 3,309.00 0.00 0.00 0.00

The concrete railings exhibit scattered full height hairline cracks spaced 2' to 3' apart on the bridge (See photo 10).

In Span 9 at the 6th light standard from the west end there is an 8" long crack in the barrier that extends underneath the light (See photo 17).

The exterior face of the bridge railing along both sides of the bridge exhibit up to full height vertical hairline cracks throughout.

Filed in Providence/Bristol County Superior Court

Damage

Submitted: 10/31/2024 9:38 AM Envelope: 4861673

Reviewer: Alexandra R

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## RID

# RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

ctor: 07/21/2023

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Bridge Condition Fair

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Inspection Date

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Both bridge railings were observed to have scattered impact scrapes along the barriers (See

photo 4, 7 and 11).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8060	Scupper	3	26.00	each	8.00	1.00	7.00	10.00

Scupper Grates: The scupper grates consist of a combination of original grates with bolted connections and replacement grates with welded connections (attachment "020001 Table 1 - Scupper Grate Defects.pdf"). Several scupper grates exhibit cracked and broken original grates and replacement grates with broken welds. As a result, portions of some grates, particularly those in the Left Lane, are loose and can be removed by hand. The scupper grates in the Left Lane at Piers 3 and 5 make a loud banging noise when vehicles pass over it. For locations of broken and loose grates, see attachment "020001 Table 1 - Scupper Grate Defects.pdf". Additionally, a majority of the grates are partially to 100% clogged with mud and debris. At some locations, standing water was observed at the time of inspection. For specific locations of significant clogging and standing water, see attachment "020001 Table 1 - Scupper Grate Defects.pdf". See photos 4 thru 7, 9, 14, 16 and 20). Scupper Downspouts: The downspouts are clogged in the following locations: West Abutment South side, Pier 1 North side, Pier 2 South side, Pier 5 South side, Pier 6 South side, and Pier 7 South side. There is also a clogged catch basin at the base of the East Abutment that has caused standing water around the drain pipe at the time of the inspection. Mud along the base of the East Abutment indicates standing water previously extended up to full length of the abutment. The downspout in Span 1, Bay I exhibits moderate rust (See photo 33).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8107	Steel Opn Girder/Beam ENDS	S 3	310.00	ft	310.00	0.00	0.00	0.00

The girder ends are painted below the deck joints at the abutments and at Piers 4 and 9. The girder ends were observed to be in good condition with isolated locations of chipped/peeling paint and light surface rust (See photos 33, 54, 56, 63 and 97). There were also isolated locations of concrete overpour (See photo 92). There are several locations at girder ends throughout the bridge where there are unused/mis drilled bolt holes (See photo 33 and 63).

515 Steel Protective Coating

3,710.00

sq.ft

3,710.00

0.00

0.00

0.00

The painted girder ends were observed to be in overall good condition with isolated areas of chipped paint/peeling paint with light rust (See photos 33, 54, 56, 63, 92 and 97).

In Span 4 at Pier #4, the north face of Girder H was observed to have peeling paint with light rust on the bottom flange and bottom of the web (See photo 54).

In Span 5 at Pier #4, the north face of Girder A was observed to have corrosion to the bottom flange at the bearing and a 1'-1" long x 3" high area of corrosion to the web east of the bearing stiffener.

In Span 5 at Pier #4, the south face of Girder J was observed to have an area of light to moderate rust on the bottom flange (See photo 63).

At Pier #9, the South Face of Girder J in Span 9 and 10 was observed to have moderate surface rust on the bottom flange and up to 1' high on the bearing stiffener (See photo 97).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8213	R/C Return Wall	3	70.00	ft	70.00	0.00	0.00	0.00

There is a reinforced concrete return wall at the northeast corner of the bridge that has an architectural finish with vertical hairline cracks (See photo 133). There is minor vegetation growth along the base of the wall.

0.00

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Reviewer: Alexandra R

## **RIDOT Bridge Inspection Report**

020001 **Washington Bridge South** 

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date 07/21/2023

#### **Bridge Condition Fair**

The northeast return wall was observed to have vertical hairline cracks that extend from the weep holes up to 10' high in the architectural finish (See photo 133).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
218	Backwall, All Types	3	171.00	ft	168.00	1.00	2.00	0.00
	There are reinforced conc spall and scattered vertice						an isolated	
1080	Delamination/Spall/Patche	d Are3	2.00	ft	0.00	0.00	2.00	0.00
	At the north end of East Girder A at the top of the			de x 7" high	x 1' deep spall b	ehind		
1120	Efflorescence/Rust Staining	g 3	1.00	ft	0.00	1.00	0.00	0.00
	Both backwalls were ob efflorescence (See pho			-height vertion	cal hairline crack	s with		
1130	Cracking (RC and Other)	3	168.00	ft	168.00	0.00	0.00	0.00
	Both backwalls were obwithout efflorescence (S			-height vertion	cal hairline crack	s with and		
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
316	There are isolation bearing and concrete debris/over	-pour from	construction. Th	ere are wide	31.00  veral of the bear espread location	129.00 ings exhibit light	12.00 to moderate rust	0.00
	There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133	ngs at the pi -pour from o connections 7).	ers and both ab construction. Th s exhibit deficier	utments. Se ere are wide ncies (See p	31.00 veral of the bear espread location hotos 35, 42, 49,	ings exhibit light s of misalignment 55, 56, 61, 66, 68,	12.00 to moderate rust t and . 76, 90, 97, 102,	0.00
1000	There are isolation bearing and concrete debris/over approximately 50% of all	ngs at the pi -pour from o connections 7).  3 areas of light	ers and both about construction. The sexhibit deficient 4.00 surface rust on the sexhibit about 2.00 surface rust on the sexhi	utments. Severe are widencies (See preach	veral of the bear espread location hotos 35, 42, 49,	129.00 ings exhibit light s of misalignment 55, 56, 61, 66, 68,	12.00 to moderate rust	
	There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133 Corrosion  There are widespread a	ngs at the pi -pour from oconnections 7).  3 areas of light 55, 56, 63, 90 der A bearing	ers and both abiconstruction. This exhibit deficient 4.00 surface rust on 10, 97, 115 and 12 g exhibits corrosichibit light rust (S	ere are wide ncies (See process)  each the bearing at 22).  ion to the massee photo 55	veral of the bear espread location hotos 35, 42, 49,  0.00 assembly through esonry plate. The hotos Additionally, G	ings exhibit light s of misalignment 55, 56, 61, 66, 68, 4.00 hout the	12.00 to moderate rust t and . 76, 90, 97, 102,	0.00
	There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 13. Corrosion  There are widespread a bridge (See photo 35, 5. At Pier 4 in Span 4, Gird bearing and the Girder	areas of light 5, 56, 63, 90 der A bearing H bearing examples	ers and both about the construction. The sexhibit deficient 4.00 surface rust on 2, 97, 115 and 12 g exhibits corrosist which ight rust (Sine masonry plates)	each the bearing a 22).	31.00  veral of the bear espread location hotos 35, 42, 49,  0.00 assembly through asonry plate. The ). Additionally, G 56).	ings exhibit light is of misalignment 55, 56, 61, 66, 68, 4.00 nout the	12.00 to moderate rust t and . 76, 90, 97, 102,	0.00
	There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 13. Corrosion  There are widespread a bridge (See photo 35, 5. At Pier 4 in Span 4, Gird bearing and the Girder bearing exhibits moderate.	areas of light 55, 56, 63, 90 der A bearing exhibitions on the pearing exhibitions of the pearing exhi	4.00 surface rust on 10, 97, 115 and 12 g exhibits corrosichibit light rust (Sine masonry plate bits scattered are	each the bearing a 22). ion to the ma see photo 55 c (See photo eas of moder	31.00  veral of the bear espread location hotos 35, 42, 49,  0.00 assembly through asonry plate. The ). Additionally, G 56). rate rust (See photo 135). Assembly the control of the contro	ings exhibit light is of misalignment 55, 56, 61, 66, 68, 4.00 nout the Girder C irder J oto 61).	12.00 to moderate rust t and . 76, 90, 97, 102,	0.00
	There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 13.  Corrosion  There are widespread a bridge (See photo 35, 5.  At Pier 4 in Span 4, Gird bearing and the Girder bearing exhibits moderated at Pier 5, the Girder H to the Kicker Beam L bear to the Kicke	areas of light 55, 56, 63, 90 der A bearing exhibitions on the pearing exhibitions of the pearing exhi	4.00 surface rust on 10, 97, 115 and 12 g exhibits corrosichibit light rust (Sine masonry plate bits scattered are	each the bearing a 22). ion to the ma see photo 55 c (See photo eas of moder	31.00  veral of the bear espread location hotos 35, 42, 49,  0.00 assembly through asonry plate. The ). Additionally, G 56). rate rust (See photo 135). Assembly the control of the contro	ings exhibit light is of misalignment 55, 56, 61, 66, 68, 4.00 nout the Girder C irder J oto 61).	12.00 to moderate rust t and . 76, 90, 97, 102,	0.00
1000	There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 137.  Corrosion  There are widespread a bridge (See photo 35, 5).  At Pier 4 in Span 4, Girder bearing and the Girder bearing exhibits moderated at Pier 5, the Girder H to the Kicker Beam L bear (See photo 137).	areas of light 55, 56, 63, 90 der A bearing exhibits are rust on the pearing exhibits are all connections are rust on the pearing exhibits are rust or rust of the pearing exhibits are rust of the pe	ers and both abiconstruction. The exhibit deficient 4.00 as surface rust on 20, 97, 115 and 120 gexhibits corrosis whibit light rust (Sine masonry plate bits scattered are ring exhibits moderate to heat 57.00 consists of anchors are either loosed off from 1/16" 1-5/8". For specifical from 1/16" 1-5/8". For specifical from 1/16"	each the bearing a 22). ion to the ma dee photo 55 a (See photo eas of moder derate rust (S vy surface ru each r rods, nuts, se, tilted, bac up to 1-1/2", fic locations of	assembly through assemb	ings exhibit light sof misalignment 55, 56, 61, 66, 68, 4.00 nout the Girder C irder J oto 61).  Additionally, ry plate 45.00 rs. ng. The ated ficiencies,	12.00 to moderate rust t and . 76, 90, 97, 102, 0.00	0.00

Filed in Providence/Bristol County Superior Court Submitted: 10/31/2024 9:38 AM

2240

Loss of Bearing Area

# Submitted: 10/31/2024 9:38 AM Envelope: 4861673 Reviewer: Alexandra R. Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date 07/21/2023

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0.00

**Bridge Condition Fair** 

Several bearings throughout the structure exhibit misalignment. For specific misalignment locations and measurements, see attachment "020001 Table 4 - Bearing Defects.pdf".

In addition, some girder bottom flanges are not seated flush with the sole plates. Specific deficiencies are as follows:

At Pier 2 in Span 2, the Girder J bearing exhibits a 1/4" gap between the bottom flange and sole plate at the Southwest corner and tapers flush at the Northwest corner of the bearing.

At Pier 5 in Span 6, the Girder H bearing exhibits a 1/16" gap between the bottom flange and sole plate on the East Face of the bearing (See photo 68).

At Pier 9 in Span 10, the Girder A bearing exhibits a 1/16" gap between the bottom flange and the sole plate.

At Pier 12 in Span 13, the Girder J bearing exhibits a 1/16" gap between the bottom flange and the sole plate at the Southeast corner and tapers flush at the Northeast corner of the

Bulging, Splitting or Tearing 3 2.00 each 0.00 2.00

Several bearings throughout the structure exhibit compressed bearing material (See photo 66). For specific deficiency locations and details, see attachment "020001 Table 4 - Bearing

66). For specific deficiency locations and details, see attachment "020001 Table 4 - Bearing Defects.pdf".

Several of the bearings exhibit gaps between the masonry plate and the top surface of the concrete pedestal along the edges of the plate. The gaps between the masonry plate and the concrete bearing pedestal are up to 1/4" high at several locations and up to 3/4" high in a few locations (See photo 68). The gaps are the result of the top surface of the concrete pedestal having an uneven finish at these locations. See attachment "020001 Table 4 - Bearing Defects.pdf" for specific locations of bearing area loss.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8370	Steel Diaphragms	3	805.00	each	804.00	1.00	0.00	0.00

The interior diaphragms are numbered from West to East, starting again from 1 in each span. The interior diaphragms and end diaphragms were observed to have scattered areas of yellow to orange rust with scattered locations of concrete debris/over-pour from construction and isolated locations of connection deficiencies. The end diaphragms below the deck joints at the abutments and at Piers #4 and #9 are painted. However, the end diaphragm at Pier 9 in Span 10 is not painted on the West Face (See photos 31, 53, 54 and 96).

515 Steel Protective Coating 3 24.200.00 sa.ft 24.200.00 0.00 0.00 0.00

The interior diaphragms and end diaphragms are protected by a weathering steel patina. The weathering steel diaphragms exhibit a normal surface patina with some scattered areas of yellow to orange rust. The end diaphragms below the deck joints at the abutments and at Piers #4 and #9 are painted. However, the end diaphragm at Pier 9 in Span 10 is not painted on the West Face (See photos 31, 53, 54 and 96)..

In Span 1, at West Abutment #1 in Bay G there is light rust on the end diaphragm bottom flange (See photo 31).

In Span 4 at Pier #4, the end diaphragm in Bay G exhibits corrosion at the top flange and light rust on the bottom of the connection plate to girder H (See photos 53 and 54).

In Span 9 at Pier #9, the top flange of the end diaphragm in Bay G was observed to have peeling paint and light rust/corrosion due to leakage from the cold joint in the deck (See photo 96).

In Span 14, Bay H, Interior Diaphragm 7 exhibits minor peeling paint (See photo 129).

1020 Connection 3 1.00 each 0.00 1.00 0.00 0.00

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## **RIDOT Bridge Inspection Report**

**Washington Bridge South** 

020001

Inspected By AECOM-COMMONWEALTH

Inspector:

#### Inspection Date 07/21/2023

#### **Bridge Condition Fair**

In several spans, the interior diaphragms in Bay G exhibit plate washers overlapping

adjacent washers and slightly bent washers.

At Pier 9 in Span 10, the bolts at the end diaphragm connections to Girder G and H in Bay G are loose or not fully engaged. There is also a 1/2" gap between the bearing stiffener plate and the end diaphragm at both connections.

In Bay G of Span 11, the connection plate from Interior Diaphragm 4 to the North Face of Girder H was observed to have a 7-3/4" high x up to 1/8" bend to the West.

In Span 14, several interior diaphragms were observed to have random filler plates installed at the connections to the girders.

#### **Work Candidates**

Assigned to To	Assigned to To be assigned		Date	
Status	Priority	Action	Proposed	Notes
Assigned_Age ncy	1	Clean&Flush Deck Drainage	07/21/2023	[CE&C]: Most of the scupper grates and downspouts are either partially or fully clogged. We recommend that these areas be cleaned/flushed to help with the deck drainage.

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## **RIDOT Bridge Inspection Report**

**Bridge Condition Fair** 

## **Washington Bridge South**

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date

07/21/2023

020001

Boat Underbridgeinspvel Scaffolding BoesemansChair Waders Rail Mount Elliot Crash Truck Air Monitor Ladder		Poison Ivy Heavy Vegetation Hurricane Evac Route?  Cones Traffic Setup Req Police Req Night Insp Req Signs	Yes Yes Yes No Yes	Speed Limit Prep Time Crew Slize 2 Under Insp Vehicl Traffic Control Tin Mile Post Crew Days Time Report Time Bucket Truck Time	e Time ne 9	2	
Floats Climbing Rail Mount Bucket Truck	UFact	Site Access Notes		- Telephone			
Avg Curb Reveal South Posted Weight Limit		_	8	Sewer Cable	_ _ _		
Posting Sign ?				Dil Fire Alarm			
Post Signs Legible Post Sign Rec Adv Min Vert Clear Sig Min Vert Clear Signs Le Min Vert Clear Post Va Min Vert Clear Sign Re Old Rating and Posting RR Mile Post	eg lles ec	-1 02 01	V G	DH Lines Present Vater Sas Electric Fiber Optic	0 0 0		
US DOT/AAR No.							

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## **RIDOT Bridge Inspection Report**

### 020001 **Washington Bridge South**

Inspected By AECOM-COMMONWEALTH

Inspector:

Inspection Date 07/21/2023

Envelope: 4861673 Reviewer: Alexandra R. **Bridge Condition Fair** 

8/22/2023	8/22/2023 Bat and Bird Observations											
Bats: BATS OBSERVED No BATS NOTES	BATS VISUAL	BAT DROPPINGS	BAT STAINING	BAT SOUNDS	BAT PHOTOS							
Birds BIRDS OBSERVED Yes BIRD NOTES Pigeons and pigeon de	bris was observed	BIRD PHOTOS   k throughout the bridge a		SPECIES IDENT  See photos 30 and								