Bridge Inspection Report

## Structure Inventory and Appraisal Sheet (English Units)

Name: Washington Bridge No	orth	Agency ID: 0700	01 Inspected E	c Date: 07/24/2019 By: AECOM
		IDENTIFIC		
Rte (On/Under) 54:	Route On Structur	e	State 1	: 44 Rhode Island
Rte. Signing Prefix 5B:	1 Interstate Hwy		Facility Carried 7	· I-195 WB
Level of Service 5C:	1 Mainline		Municipality	East Providence
Route Number 5D:	00195		SHD District	2. District 3
Directional Suffix 5E:	4 West		Feature Intersected	6: SEEKONK RIVER
Border Bridge Code 98:	Not Applicable (P)		County Code	3: Providence
Border Bridge Number 99:				0.2 MiW of JCT US 6
Mile Post 11:	2 /23 mi		Latitude 1	6: 41° 49' 09"
Struc Num 8:	000000000000000000000000000000000000000		Longitude 1	<b>7</b> : 071° 23' 12"
% Responsibility:				
witespensionity.		)		
	7/04/2010 -	INSPEC	TION	7/24/2021
Inspection Date 90:	1/24/2019 Free	quency 91:	24 monuts Next Insp	
FC Inspection Date 93A:	NA FC	Frequency 92A:	Next FC I	Inspection: NA
UW Inspection Date 93B:	7/24/2017 UW	Frequency 92B:	48 months Next UW	Inspection: 7/24/2021
SI Date 93C:	7/24/2019 SI F	requency 92C:	12 months Next SI:	7/24/2020
Element Insp. Date:	7/24/2019 Eler	ment Frequency:	12 months Next Eler	<b>m. Insp.:</b> 7/24/2020
Culvert 62: N N/A (NBI)	Channel/Channe	el Protection 61:	6 Bank Slumping	SUFF RATE: 52.0
Culvert 62: N N/A (NBI)		OAD RATING A	6 Bank Slumping	SUFF RATE: 52.0
Culvert 62: N N/A (NBI)	Channel/Channel	OAD RATING A	6 Bank Slumping ND POSTING Operating Rating Met	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)
Culvert 62: N N/A (NBI)	Channel/Channel L 5: 8 LRFR (HLS 6: MS22.2	OAD RATING A	6 Bank Slumping ND POSTING Operating Rating Met Operating Rating	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8
Culvert 62: N N/A (NBI)	Channel/Channel L 5: 8 LRFR (HLS 6: MS22.2 1: 6 MS18(HS2 1: 4 Open poor	OAD RATING A	6 Bank Slumping ND POSTING Operating Rating Met Operating Rating Resting 70: 5	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           At/Above Legal Loads
Culvert 62: N N/A (NBI)	Channel/Channel Channel/Channel S: 8 LRFR (HLS 6: MS22.2 1: 6 MS18(HS2 1: A Open, no r	COAD RATING A 93) 20)+mod restriction	6 Bank Slumping ND POSTING Operating Rating Met Operating Rating Posting 70: 5	SUFF RATE:       52.0         thod 63:       8 LRFR (HL93)         64:       MS28.8         6 At/Above Legal Loads
Culvert 62: N N/A (NBI)	Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Cha	COAD RATING A 93) 20)+mod restriction GEOMETRI	6 Bank Slumping ND POSTING Operating Rating Operating Rating Posting 70: 5 IC DATA Structure Lengt	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           64:/Above Legal Loads
Culvert 62: N N/A (NBI)	Channel/Channel Channel/Channel S5: 8 LRFR (HLS S6: MS22.2 1: 6 MS18(HS2 1: A Open, no r 48: 130.60 ft	COAD RATING A 93) 20)+mod restriction GEOMETRI	6 Bank Slumping ND POSTING Operating Rating Posting 70: 5 IC DATA Structure Lengt	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           64/Above Legal Loads
Culvert 62: N N/A (NBI)	Channel/Channel Channel/Channel S5: 8 LRFR (HLS S6: MS22.2 1: 6 MS18(HS2 1: A Open, no r 48: 130.60 ft 51: 71.85 ft	COAD RATING A 93) 20)+mod restriction GEOMETRI	6 Bank Slumping ND POSTING Operating Rating Met Operating Rating Posting 70: 5 IC DATA Structure Lengt Curb/Sdwlk Wid	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           65:         0.00           66:         0.00.0           70:         0.0
Culvert 62: N N/A (NBI)	Channel/Channel Channel/Channel S: 8 LRFR (HLS 6: MS22.2 1: 6 MS18(HS2 1: A Open, no r 48: 130.60 ft 51: 71.85 ft 32: 61.00 ft	el Protection 61: OAD RATING A 93) 20)+mod restriction GEOMETRI	6 Bank Slumping ND POSTING Operating Rating Mel Operating Rating Posting 70: 5 IC DATA Structure Lengt Curb/Sdwlk Wid Curb/Sidewalk V Width Out to O	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           76:         44 ft
Culvert 62: N N/A (NBI)	Channel/Channe	COAD RATING A 93) 20)+mod restriction GEOMETRI	6 Bank Slumping ND POSTING Operating Rating Met Operating Rating Posting 70: 5 IC DATA Structure Lengt Curb/Sidewalk Vic Curb/Sidewalk Vic Width Out to Ou Median	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           76:         MM M M M M M M M M M M M M M M M M M M
Culvert 62: N N/A (NBI) Inventory Rating Method 6 Inventory Rating 6 Design Load 33 Posting Status 4 Length Max Span Width Curb to Curb Approach Roadway width (w/ shoulders) Deck Area: Skew	Channel/Channe	COAD RATING A 93) 20)+mod restriction GEOMETRI 32ft <sup>2</sup>	6 Bank Slumping  ND POSTING  Operating Rating Met  Operating Rating  Posting 70: 5  IC DATA  Structure Lengt  Curb/Sdwlk Wid  Curb/Sidewalk V  Width Out to Ou  Median  Structure Elarge	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           76:         Midth R 50B:           76:         Mo median           4:         35:           1 Yes< flared
Culvert 62: N N/A (NBI) Inventory Rating Method 6 Inventory Rating 6 Design Load 3 Posting Status 4 Length Max Span Width Curb to Curb Approach Roadway width (w/ shoulders) Deck Area: Skew Vertical Clearance	Channel/Channe	COAD RATING A 93) 20)+mod restriction GEOMETRI 32ft <sup>2</sup>	6 Bank Slumping ND POSTING Operating Rating Mel Operating Rating Posting 70: 5 IC DATA Structure Lengt Curb/Sidewalk Vid Curb/Sidewalk Vidth Out to Ou Median Structure Flared Horizontal Clear	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           6At/Above Legal Loads           64:         1,903.87           64:         0.00           64:         500.00           64:         1,903.87           64:         500.00           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           64:         1,903.87           65:         1,903.87           64:         33:           76.44 ft         33:           75:         1 Yes, flared           75:         1 Yes, flared
Culvert 62: N N/A (NBI)         Inventory Rating Method 6         Inventory Rating         Design Load         31         Posting Status         4         Length Max Span         Width Curb to Curb         Approach Roadway width (w/ shoulders)         Deck Area:         Skew         Vertical Clearance         Minimum Vertical Clearance	Channel/Channe	COAD RATING A 93) 20)+mod restriction  GEOMETRI 32ft <sup>2</sup> 53: 18	6 Bank Slumping  ND POSTING  Operating Rating Met  Operating Rating  Posting 70: 5  IC DATA  Structure Lengt  Curb/Sdwlk Wic  Curb/Sidewalk Width Out to Ou  Median  Structure Flared Horizontal Clear  .33 ft	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           78:         0.00           14:         52:           76.44 ft         33:           33:         0 No median           13:         1 Yes, flared           7:         59.71 ft
Culvert 62: N N/A (NBI) Inventory Rating Method 6 Inventory Rating 6 Design Load 3 Posting Status 4 Length Max Span Width Curb to Curb Approach Roadway width (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical Clearance	Channel/Channel Channel/Channel Channel/Channel Solution Channel/Channel Channel Channel/Channel Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel	COAD RATING A 93) 20)+mod restriction  GEOMETRI 32ft <sup>2</sup> 53: 18 54A: H H	6 Bank Slumping  ND POSTING  Operating Rating Met  Operating Rating  Posting 70: 5  IC DATA  Structure Lengt Curb/Sidewalk Vid Curb/Sidewalk Vidth Out to Ou Median Structure Flared Horizontal Clear .33 ft wy beneath struct	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           7         6.44           31:         0 No median           13:         1 Yes, flared           rance         47:           59.71 ft
Culvert 62: N N/A (NBI) Inventory Rating Method 6 Inventory Rating 6 Design Load 3 Posting Status 4 Length Max Span Width Curb to Curb Approach Roadway width (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical Clearance Minimum Vertical Undercle	Channel/Channel Channel/Channel S: 8 LRFR (HLS 6: MS22.2 1: 6 MS18(HS2 1: A Open, no r 48: 130.60 ft 51: 71.85 ft 32: 61.00 ft 145.531.8 34: 0.00° 10: 99.99 ft ce Over Bridge earance Reference earance	el Protection 61:         .OAD RATING A         93)         20)+mod         restriction         GEOMETRI         32ft²         53:       18         54A:       H Hr         54B:       14	6 Bank Slumping           ND POSTING           Operating Rating Met           Operating Rating           Posting 70:         5           IC DATA           Structure Lengt           Curb/Sdwlk Wid           Curb/Sidewalk N           Width Out to Ou           Median           Structure Flared           Horizontal Clear           .33 ft           wy beneath struct           17 ft	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           78:         0.00           1t         50A:         0.00           1t         52:         76.44 ft           33:         0 No median         1           13:         1 Yes, flared         1           7:         59.71 ft         1
Culvert 62: N N/A (NBI)         Inventory Rating Method 6         Inventory Rating         Design Load         3'         Posting Status         4         Length Max Span         Width Curb to Curb         Approach Roadway width (w' shoulders)         Deck Area:         Skew         Vertical Clearance         Minimum Vertical Undercle         Minimum Lateral Undercle	Channel/Channel Channel/Channel S: 8 LRFR (HLS 6: MS22.2 1: 6 MS18(HS2 1: A Open, no r 48: 130.60 ft 51: 71.85 ft 32: 61.00 ft 145.531.8 34: 0.00° 10: 99.99 ft ce Over Bridge earance Reference earance Reference R	el Protection 61:         .OAD RATING A         93)         20)+mod         restriction         GEOMETRI         32ft²         53:       18         54A:       H Hr         54B:       14.         355A:       H Hr	6 Bank Slumping  ND POSTING  Operating Rating  Posting 70: 5  C DATA  Structure Lengt  Curb/Sdwlk Wid  Curb/Sidewalk V  Width Out to Ou  Median  Structure Flared Horizontal Clear  .33 ft  wy beneath struct  17 ft  wy beneath struct	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           64:         MS28.7           ft         SOA:         0.00           width R 50B:         0.00 ft           ut         52:         76.44 ft           33:         0 No median           13:         1 Yes, flared           14:         1 Si
Culvert 62: N N/A (NBI) Inventory Rating Method 6 Inventory Rating 6 Design Load 3 Posting Status 4 Length Max Span Width Curb to Curb Approach Roadway width (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical Clearance Minimum Vertical Undercle Minimum Lateral Undercle Minimum Lateral Undercle	Channel/Channel Channel/Channel S5: 8 LRFR (HLS S6: MS22.2 1: 6 MS18(HS2 1: A Open, no r 48: 130.60 ft 51: 71.85 ft 32: 61.00 ft 145.531.8 34: 0.00° 10: 99.99 ft ce Over Bridge earance Reference earance Reference R earance R	el Protection 61:         .OAD RATING A         93)         20)+mod         restriction         GEOMETRI         32ft²         53:       18         54A:       H H         54B:       14.         55:       6.0	6 Bank Slumping           ND POSTING           Operating Rating Met           Operating Rating           Posting 70:         5           IC DATA           Structure Lengt           Curb/Sdwlk Wid           Curb/Sidewalk N           Width Out to Ou           Median           Structure Flared           Horizontal Clear           .33 ft           wy beneath struct           17 ft           wy beneath struct	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           64:         MS28.7           ft         SOA:           0.00         ft           Width R 50B:         0.00 ft           ut         52:           76.44 ft         33:           33:         0 No median           43:         35:           1 Yes, flared           1 How         Soort ft           1 How         Soort
Culvert 62: N N/A (NBI) Inventory Rating Method 6 Inventory Rating 6 Design Load 3 Posting Status 4 Length Max Span Width Curb to Curb Approach Roadway width (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical Clearance Minimum Vertical Undercle Minimum Lateral Undercle Minimum Lateral Undercle Minimum Lateral Undercle	Channel/Channel Channel Channel/Channel Channel/Channel Channel/Channel Channel/Channel Channel	el Protection 61:         .OAD RATING A         93)         20)+mod         restriction         GEOMETRI         32ft²         53:       18         54A:       H Hr         54B:       14.1         2 55A:       H Hr         55:       6.0         56:       0.0	6 Bank Slumping           ND POSTING           Operating Rating Met           Operating Rating           Posting 70:         5           IC DATA           Structure Lengt           Curb/Sdwlk Wid           Curb/Sdwlk Wid           Width Out to Ou           Median           Structure Flared           Horizontal Clear           .33 ft           wy beneath struct           17 ft           wy beneath struct           00 ft	SUFF RATE:         52.0           thod 63:         8 LRFR (HL93)           64:         MS28.8           64:         MS28.7           ft         SOA:         0.00           13:         0 No median           13:         1 Yes, flared           13:         1 Yes, flared           14:         1 Yes           15:         1 Yes           16:         1 Yes           16:         1 Yes           17:         59.71 ft

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Bridge Inspection Report

## Structure Inventory and Appraisal Sheet (English Units)

AGE	AND SERVICE
Year Built         27:         1969	ADT 29: 76,700
Type of Service on 42A: 1 Highway	Year Reconstructed 106: 1998
Type of Service under 42B: 8 Hwy-waterway-RR	Detour Length 19: 2.0 mi
Lanes on 28A: 5	Truck ADT 109: 10%
Lanes under 28B: 8	Year of ADT         30:         2008
STRUCTURE 1	TYPE AND MATERIALS
Number of Approach Spans 46: 20	Number of Spans Main Unit         45:         1
Wearing Surface         108A:         6 Bituminous	Main Span Material Design 43A: 3 Steel
Membrane 108B: 2 Preformed Fabric	Main Span Material Design 43B: 02 Stringer/Girder
Deck protection 108C: 8 Unknown	Deck Type 107: 1 Concrete-Cast-ir
AF	 PPRAISAL
Bridge Rail 36A: 1 Meets Standards	Approach Rail         36C:         0 Substandard
Transition 36B: 0 Substandard	Approach Rail Ends 36D: 0 Substandard
Str Evaluation 67: 4 Minimum Tolerable	Deck Geometry 68: 4 Tolerable
Waterway Adequacy 71: 7 Above Minimum	Approach Alignment 72: 6 Equal Min Criteria
Scour Critical 113: 3 SC - Unstable	)
Underclearance, Vertical and Horizontal 69: 47	Tolerable
CLA	ASSIFICATION
Defense Highway 100: 1 On Interstate STRAHNE	Parallel Structure         101:         Left of    bridge
Direction of Traffic 102: 1 1-way traffic	Temporary Structure         103:         Not Applicable (P)
Highway System 104: 3 On free road	NBIS Length         112:         Long Enough
Defense Hwy 110: 1 On the NHS	Functional Class         26:         11 Urban Interstate
Toll Facility         20:         1 On Interstate STRAHNE <sup>*</sup>	Historical Significance 37:         5 Not eligible for NRHP
Owner 22: 01 State Highway Agency	Custodian         21:         01 State Highway Agency
PROPOSE	D IMPROVEMENTS
Bridge Cost 94: \$29,571,332	Type of Work         75:         35 Rehabilitate-gen.
Roadway Cost         95:         \$2,957,133	Length of Improvement         76:         1,903.87
Total Cost         96:         \$44,356,998	Future ADT         114:         92,040
Year of Cost Estimate 97: 2007	Year of Future ADT     115:     2036
NAVI	IGATION DATA
Navigation Control 38: Permit Not Required	Horizontal Clearance40:99.7 ft
Vertical Clearance 39: 42.0 ft	
Pier Protection 111: 2 In-Place Eulertioning	Lift Bridge Vertical Clearance 116:

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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
	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
0	215/3	Re Conc Abutment	230.00	34%	78.00	19%	44.00	47%	108.00	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	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
	1130/3	Cracking (RC and Other)	19.00	0%	0.00	0%	0.00	100%	19.00	0%	0.00
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# 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
0	234/3	Re Conc Pier Cap	388.00	13%	52.00	81%	313.00	6%	23.00	0%	0.00
	1080/3	Delamination/Spall/Patched Area	308.00	0%	0.00	95%	293.00	5%	15.00	0%	0.00
	1090/3	Exposed Rebar	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)	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
0	311/3	Moveable Bearing	11.00	0%	0.00	64%	7.00	36%	4.00	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%	88.00
	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(Sti Protect Coat)	110.00	0%	0.00	0%	0.00	070/	00.00	40%	44.00
	1000/3	Corrosion	11.00	0%	0.00	73%	8.00	21%	3.00	0%	0.00
0	510/2	Wearing Surfaces	2,352.00	0%	1 252 00	210%	2,352.00	0%	0.00 500.00	0%	0.00
	2220/2	Crack (Moaring Surface)	2,352.00	57%	1,352.00	2170	500.00	2170	500.00	0 %	0.00
	3220/3	De Cene Bridge Beiling	2,352.00	01/6	2,300,00	21/0	444.00	21/6	1.00	0%	0.00
0	1090/2	Re Conc Bridge Railing	3,808.00	09%	3,396.00	100%	411.00	0%	0.00	0%	0.00
	1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	0%	0.00	100%	1.00	0%	0.00
	1120/3	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
<u> </u>	8060/3	Scupper	27.00	0%	0.00	11%	3.00	74%	20.00	15%	4.00
0	1000/3	Corrosion	4.00	0%	0.00	0%	0.00	0%	0.00	100%	4.00
	8107/1	Steel Opp Girder/Beam ENDS	110.00	0%	0.00	0%	0.00	100%	110.00	0%	0.00
0	515/1	Steel Protective Coating	1.615.00	0%	0.00	0%	0.00	38%	615.00	62%	1.000.00
	3420/1	Peel/Bub/Crack(Stl Protect Coat)	1,615.00	0%	0.00	0%	0.00	38%	615.00	62%	1,000.00
	8213/3	R/C Return Wall	175.00	0%	0.00	86%	150.00	14%	25.00	0%	0.00
Ľ	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	100%	100.00	0%	0.00	0%	0.00	0%	0.00
0	8218/3	Backwall, All Types	230.00	45%	104.00	35%	80.00	20%	46.00	0%	0.00
L	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
0	8305/3	Asphaltic Joint Material	1,438.00	<b>69%</b>	987.00	31%	451.00	0%	0.00	0%	0.00
B	2310/3	Leakage	430.00	0%	0.00	100%	430.00	0%	0.00	0%	0.00
	2340/3	Seal Cracking	21.00	0%	0.00	100%	21.00	0%	0.00	0%	0.00
0	8335/3	Guardrail, Vehicular	700.00	79%	550.00	21%	150.00	0%	0.00	0%	0.00
-	515/3	Steel Protective Coating	3,150.00	57%	1,800.00	0%	0.00	43%	1,350.00	0%	0.00
	1000/3	Corrosion	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
	1020/3	Connection	10.00	0%	0.00	100%	10.00	0%	0.00	0%	0.00
	1020/0										

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# Bridge Inspection Report

			<i>,</i> , , , , , , , , , , , , , , , , , ,	•		``	5	,			
	7000/3	Damage	40.00	0%	0.00	100%	40.00	0%	0.00	0%	0.00
0	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
0	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
0	8367/3	Slope Blocks	700.00	85%	595.00	0%	0.00	15%	105.00	0%	0.00
0	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
0	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
0	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

Bridge Inspection Report

ELEM NBR	E	LEMENT 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	
Ther The repa The	re is a reinforced concrete deck in Span #1 through #18. top of the deck has a bituminous concrete wearing surface/overlay that was in varying stages of air during the inspection (Photos 1-5, 42-49). underside of the deck at the deck joints was in varying stages of re-construction during the										
insp asse remo The efflo isola efflo	ection. I emblies a oved (Pho undersio prescence ated sp prescence	Formwork remain at the deck joint oto 97). de of the deck e, random hairli alls. The areas e with intermitte	ns ir s in has ne s ir ent	n place throug Spans #1 the areas of ex cracking, rand mmediately su hollow areas.	ghout the b bugh#6 and posed rebar lom areas urrounding The overh	ridge #8 thr chair of da drain angs	(Photos 26 ough #14 s througho mp concre pipes ha exhibit typ	-36) and t typically ha out, areas ete, randon ive heavy bical hairlir	he seismic ave the res of rust sta n hollow rust sta ne transver	restraine trainer roo aining and areas and ining and se cracks	
with Tabl	efflores e.pdf" for <sup>510</sup> Weari	scence and stal r further details. ng Surfaces	actite 3	es. See photo 07/24/2019	os 92-105 a	and th	e attached	file "070 7,144.00	001 Elem 1,428.00	12 Defec	
_		The bituminous concrete wearing surface/overlay on the bridge exhibits sand and debris accumulation along construction limits, 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 46 49, 55 62)         3210       Del/Spall/Patch/Pot(Wear Surf)       3       07/24/2019       4,286 00       sg.ft       0.00       3,572.00       714.00       0.00									
_	32	There . There Photos 220 Crack (Wearing Surface	are is is ty 46-49,	colated minor poth vpical raveling or c , 55-62). 3 07/24/20	oles up to 3" depressed areas	deep an up to s	d scattered d 12" wide x 2" <sup>cq.ft</sup> 0.00	epressed patc deep in the 3,572.00	hes in the we pavement alon 714.00	earing surfac g the joints 0.00	
		There a the goin the joint	re isol re are ts (Pho	lated locations of sea ea in Spans #15 otos 55-62).	aled longitudinal o through #18 (F	cracks ald Photos 4	ong the lane line 6-49). There	es, in the should are sealed tra	ders and in ansverse crack	s adjacent i	
	1080 Delan	nination/Spall/Patched Area	3 Ind the	07/24/2019 attached file "07000"	2,143.00 1 Elem 12 Defect	<sup>sq.ft</sup> Table.pdf	0.00 F" for further det	1,786.00 ails.	357.00	0.00	
	1090 Expos	sed Rebar See photos 92-105 ar	3 Id the	07/24/2019 attached file "07000"	2,143.00 1 Elem 12 Defect	<sup>sq.ft</sup> Table.pdf	0.00 f" for further det	1,786.00	357.00	0.00	
	1120 Efflore	D         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 and the attached file "070001 Elem 12 Defect Table.pdf" for further details.									
	1130 Crack	ing (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 ar	d the	attached file "07000"	1 Elem 12 Defect	Table.pd	f" for further det	ails.			
ELEM NBR	E	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
16	Re C	onc Top Flange	3	07/24/2019	7,336.00	sq.ft	5,911.00	1,150.00	275.00	0.00	

#### 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	Wearir	ng Surfaces		3	07/24/2019	7,336.00		sq.ft	7	7,336.00		0.00	0.0	)	0.0	10
			The new 2).	bituminous	concrete	wearing	surface/overlay	was	not s	striped	at the	time	of the	inspection	(Photos	6-7,	50-5
	1080	Delam	ination/Spall/Pa	tched Area	3	07/24/2019	200.00		sq.ft		0.00		200.00	0.0	0	0.0	10
			See photos	s 182, 183, <sup>-</sup>	186-189, 1	91 and the	attached file "07	0001 E	Elem 1	16 Defe	ect Table	.pdf" fo	or further	details.			
	1090	Expos	ed Rebar		3	07/24/2019	25.00		sq.ft		0.00		0.00	25.0	0	0.0	10
			See photos	s 182, 183, <sup>-</sup>	186-189, 1	91 and the	attached file "07	0001 E	Elem 1	16 Defe	ect Table	.pdf" fo	or further	details.			
	1120	Efflore	scence/Rust Sta	aining	3	07/24/2019	1,000.00		sq.ft		0.00		750.00	250.	00	0.0	10
			See photos	s 182, 183, <sup>-</sup>	186-189, 1	91 and the	attached file "07	0001 E	Elem 1	16 Defe	ect Table	.pdf" fo	or further	details.			
	1130	Cracki	ng (RC and Oth	er)	3	07/24/2019	200.00		sq.ft		0.00		200.00	0.0	)	0.0	10
			See photos	s 182, 183, <sup>-</sup>	186-189, 1	91 and the	attached file "07	0001 E	Elem 1	I6 Defe	ect Table	.pdf" fo	or further	details.			
ELEM		FI			ENV		OLIANTI	TY			QTY		QTY	QT	(	QT	Y

105	Re Clsd Box Girder	3	07/24/2019	922.00	ft	78.00	505.00	339.00	0.00
NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	CS 1	CS 2	CS 3	CS 4

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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/Patched Area	3	07/24/2019	100.00	ft		0.00		80.00	20.00			0.00
			See photos 37-41, Table.pdf" and "07000	175-19 1 Elem	3 and the attache 105 Underside Ske	d files "070001 tches.pdf" for furt	Elem her deta	105 ils.	Defect	1130	Table .pdf",	"070001	Elem	105	Defect
	1090	Expose	ed Rebar	3	07/24/2019	5.00	ft		0.00		0.00	5.00			0.00
			See photos 37-41, Table.pdf" and "07000	175-19 1 Elem	3 and the attache 105 Underside Ske	ed files "070001 tches.pdf" for furt	Elem her deta	105 ils.	Defect	1130	Table .pdf",	"070001	Elem	105	Defect
	1120	Efflores	scence/Rust Staining	3	07/24/2019	244.00	ft		0.00		122.00	122.00	)		0.00
			See photos 37-41, Table.pdf" and "07000	175-19 1 Elem	3 and the attache 105 Underside Ske	ed files "070001 tches.pdf" for furt	Elem her deta	105 ils.	Defect	1130	Table .pdf",	"070001	Elem	105	Defect
	1130	Crackir	ng (RC and Other)	3	07/24/2019	495.00	ft		0.00		303.00	192.00	)		0.00
			See photos 37-41, Table.pdf" and "07000	175-19 1 Elem	3 and the attache 105 Underside Ske	ed files "070001 tches.pdf" for furt	Elem her deta	105 ils.	Defect	1130	Table .pdf",	"070001	Elem	105	Defect
ELEM NBR		ELEMENT NAME ENV INSP. DATE QUANTIT				QUANTITY	UNITS		QTY CS 1		QTY CS 2	QTY CS 3		(	QTY CS 4
107		Steel C	)nn Girder/Beam	3	07/24/2019	1,320.00	ft		787.00		496.00	37.00		0	.00

#### 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.

5	15	Steel Pro	otective Co	oating		3	3	07/24	\$/2019		19,	385.00	s	q.ft	7,38	50.00		6,300.0	00	5	5,735.00			0.00	
		- 1 -	The fai noderat Fable.pc	scia s e rust	sides t with further	of ( up deta	Girders to hea ils.	s 'A' a avy rus	and tat	'K' girde	have er end	been ls. See	re-pa e phot	ainted tos 1	and 22-127	are and	re-ru the	sting. attache	Rema ed file	iining • "07(	area 0001	s ha Elem	ve 107	light Defe	to ct
		3410	) Chall	(Steel P	rotect C	oatings	s) 3		07/.	24/2019	9	6,3	00.00	S	sq.ft	0	.00	6,	300.00		0.00	)		0.00	
					See pl	hotos	: 122-1	27 and	the a	attach	ed file	e "0700	01 Ele	m 107	7 Defec	t Tabl	le.pdf	" for fur	ther d	etails.					
_		3420	) Peel/	Bub/Cra	ck(Stl Pi	rotect (	Coat 3		07/	24/2019	9	5,7	35.00	5	sq.ft	0	.00		0.00		5,735.	00		0.00	-
			)	[	See pl	hotos	122-1	27 and	the a	attach	ed file	e "0700	01 Ele	m 107	7 Defec	t Tabi	le.pdf	" for fur	ther d	etails.					
1	000	Corrosio	n				3	07/24	1/2019		3	90.00		ft	0	.00		353.0	0		37.00			0.00	-
		5	See pho	tos 12	.2-127	and	the atta	ached fi	ile "0	7000 <sup>-</sup>	1 Elen	n 107 D	efect -	Table.	pdf" for	furthe	er det	ails.							
1	900	Distortio	n				3	07/24	\$/2019		1	43.00		ft	0	.00		143.0	0		0.00			0.00	-
		-	The both	om fla A' bot	nges e	exhibi lange	it typica	al 1/8" v bits full	vertic	al dis gth x	tortior up t	o $\frac{1}{4}$	sectio vertica	n tran I diste	sitions ortion	(Phote and r	o 128 minor	). rotatic	n of	the g	girder	(top	of ç	jirder	is
14		Ľ	otating	loward	is the		) (Phot	0 129).								TV	<u> </u>	ΟΤΧ			ΟΤΧ			οτν	╡
R		ELE	MENT NA	ME		EN	iV	INSP. [	DATE		Q	UANTITY	UI UI	NITS		S 1					CS 3			CS /	

14,543.00

11,733.00

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07/24/2019

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Pre Opn Conc Girder/Beam

109

CN_Ver_Inspection_SIA_English	Fri 11/01/2019 9:57:20
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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		37	5.00
		The drop-in throughout (P	girder o Photos 130-	dapped -144).	ends are	coate	d with	a pro	otective	e sealan	nt whic	ch has	scattere	ed peelii	ng an	d cr	acking
-		3510 Wear (Conc	rete Protect Co	oat) 3	07/2	24/2019		750.00		sq.ft	0.00		0.00	375.	00	37	5.00
			See 521 -	Concret	te Protective	e Coatii	ng notes.										
	1080	Delamination/Spall/Patche	ed Area	3	07/24/2019		1,150.00		ft	0.0	0	900.0	0	250.00		(	0.00
		See photos Table.pdf" for	130-174 further det	and the ails.	e attached	files	"070001	Elem	109	Shear C	Crack 7	Table .pdf"	and '	"070001	Elem	109	Defect
	1090	Exposed Rebar		3	07/24/2019		175.00		ft	0.0	0	0.00		50.00		12	5.00
		See photos Table.pdf" for	130-174 further det	and the ails.	e attached	files	"070001	Elem	109	Shear C	Crack 1	Table .pdf"	and '	"070001	Elem	109	Defect
	1100	Exposed Prestressing		3	07/24/2019		25.00		ft	0.0	0	0.00		15.00		1	0.00
		See photos Table.pdf <sup>°</sup> for	130-174 further det	and the ails.	e attached	files	"070001	Elem	109	Shear C	rack 1	Table .pdf"	and '	"070001	Elem	109	Defect
	1110	Cracking (PSC)		3	07/24/2019		727.00		ft	0.0	0	0.00		727.00		(	.00

Bridge Inspection Report

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			See photos 130-174 Table.pdf" for further c	4 and details.	the attached file	es "070001 Ele	m 109 S	Shear Crack	Table .pdf" and	"070001 Elen	109 Defect
	1120	Efflores	scence/Rust Staining	3	07/24/2019	730.00	ft	0.00	365.00	365.00	0.00
			See photos 130-174 Table.pdf" for further c	4 and details.	the attached file	es "070001 Ele	m 109 S	Shear Crack	Table.pdf" and	"070001 Elen	n 109 Defect
	7000	Damage	e	3	07/24/2019	3.00	ft	0.00	3.00	0.00	0.00
			The prestressed co locations: - Span #16 Girder 'E' - Span #18 All girders	east of	e I-girders have f midspan: 3' long x r impact scrapes (±	impact scrapes up to ¼" deep so 15' total)	s on the	e bottom fla	inges over trav	vel 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 end	ds in Sj	pan #4 have scatter	red areas of mind	or to mode	rate graffiti (Pl	hoto 145).		
ELEM NBR		ELI	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
110	Re	e Conc	Opn Girder/Beam	3	07/24/2019	2,880.00	ft	954.00	1,188.00	688.00	50.00
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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	Delamination/Spall/Patched Area	3	07/24/2019	42.00	each	0.00	20.00	22.00	0.00
	See photos 234, 23	36-238, 255-2	57 and the attach	ned file "07000	1 Elem 205	Defect Table.	pdf" for further de	etails.	
1120	Efflorescence/Rust Staining	3	07/24/2019	5.00	each	0.00	0.00	5.00	0.00
	See photos 234, 23	36-238, 255-2	57 and the attach	ned file "07000	1 Elem 205	Defect Table.	pdf" for further de	etails.	
1130	Cracking (RC and Other)	3	07/24/2019	5.00	each	0.00	0.00	5.00	0.00
	See photos 234, 23	36-238, 255-2 <sup>;</sup>	57 and the attach	ned file "07000	1 Elem 205	Defect Table.	pdf" for further de	etails.	
8368	Graffiti	3	07/24/2019	300.00	each	0.00	300.00	0.00	0.00
	The Pier #3 and Pie	er #10 columr	is have heavy gr	affiti on the low	ver halves (F	'hoto 236).			

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
210	Re 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.

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	521	Conc F	Prot Coating			3		07/24/	2019	25,200.00	sq.	ft	25,200.0	0	0.00		0.00	)	0.	00

Bridge Inspection Report

See photos deterioration. 521 Conc Pro T 1080 Delamina 1120 Effloresco S 1120 Effloresco S	ment #2 is a full height abu         and 'l' (Photos 215-216, 280).         scattered hairline cracks, hold         the beam seat (Photos 217-221).         the beam seat (Photos 222). The abute abute front (Photo 222). The abute abute from the attached form.         one Prot Coating       3         one Prot Coating       3         and off for details of deterioration.         elamination/Spall/Patched Area       3         florescence/Rust Staining       3         See photos 213-222 and the attached fill         see photos 213-222 and the attached fill         acking (RC and Other)       3         3       07/24/	ection of the t abutment with 280). See insy hollow areas 221). b abutment that abutment exhi 07/24/2019 2 protective coatings tion. 07/24/2019 iched file "070001 Elei 07/24/2019 iched file "070001 Elei 07/24/2019	hat is hidden by debris and nestin of the stub abu- ment with an elec- See inspection n w areas and sp ment that sits or ent exhibits scatt file "070001 I 9 2,300.00 e coatings. See photo 9 103.00 070001 Elem 215 Defect 9 30.00 070001 Elem 215 Defect	113         Efference/concentrate Stamming         2         0.704/2011         8 = 10         0.00         40.00         <	he col xhibits East Ak Bays 'H xhibits lesting of Vest Al locks solate s bee ph leteriora 521 1080 1120	Scatta putme l' an sca on the butme in fr pall. Conc F Delami Efflore:	ered hairline crack ent #2 is a fu d 'l' (Photos 2) ttered hairline e beam seat (Photos 2) ent #1R is a ront (Photo 22) 213-222 and Prot Coating The abutments all Table.pdf" for details ination/Spall/Patched Area See photos 213-222 scence/Rust Staining See photos 213-222 ng (RC and Other)	he ins cking. II heig 215-216 crack otos 21: semi-s 2). Th the 3 have n of deterio 3 and the a 3 and the a 3	pection of t pht abutment 5, 280). See is, hollow a 7-221). tub abutment e abutment attached fil 07/24/2019 attached file "07000 07/24/2019 attached file "07000 07/24/2019	the stub a with an e inspection ireas and that sits exhibits so e "070001 2,300.00 atings. See pt 103.00 01 Elem 215 Def 30.00 01 Elem 215 Def 19.00	electrica notes spalls on the attered Elem sq.ft notos 213 ft ft ft ft	I utility reformed for electric with type river emetifications of the second se	Photo 214) pom built ical room ical debris bankment ince and fect Table. 0.00 e attached file 29.00 of deterioration 15.00 of deterioration 0.00	into the a notes. The accumula with slope rust stainin .pdf" for 0.00 e "070001 Elect 74.00 15.00	butment butment abutm ation/pig protec ng and details 0.00 0.00 0.00
See photos deterioration. 521 Conc Pro T 1080 Delamina 1120 Effloresco S	ment #2 is a full height abu         and 'l' (Photos 215-216, 280).         scattered hairline cracks, holl         the beam seat (Photos 217-221).         the beam seat (Photo 222).         the abut         front (Photo 222).         the abut         in.         one Prot Coating       3         one Prot Coating       3         off" for details of deterioration.         stamination/Spall/Patched Area       3         offorescence/Rust Staining       3         off24/       See photos 213-222 and the attached fill	ection of the t abutment with 280). See insp hollow areas 221). b abutment that abutment exhi 07/24/2019 2 protective coatings tion. 07/24/2019 iched file "070001 Eler 07/24/2019 iched file "070001 Eler	hat is hidden by debris and nestin of the stub abu- ment with an election n w areas and sp ment that sits or ent exhibits scatt file "070001   9 2,300.00 e coatings. See photo 9 103.00 070001 Elem 215 Defect 9 30.00	1120         Efferesemethad Stating         3         07242219         00.0         1         0.00         40.00         40.00         0.00           See photos 235-263 and the attached file '070001 Elem 210 Defect Table pdf' for details of deterioration.         1         0         0.00         60.00         60.00         0.00         0.00           See photos 235-263 and the attached file '070001 Elem 210 Defect Table pdf' for details of deterioration.         0.00	he col xhibits East At Bays 'H xhibits lesting of Vest Al locks solate s See ph leteriora 521	scatta outme l' an sca on the butme in fr pall. conc F Delami	ered hairline crack ent #2 is a fu d 'l' (Photos 2 ttered hairline beam seat (Photos 2 ent #1R is a cont (Photo 22 213-222 and Prot Coating The abutments all Table.pdf" for details ination/Spall/Patched Area See photos 213-222 scence/Rust Staining See photos 213-222	he ins cking. II heig 215-216 crack otos 21 <sup>1</sup> semi-s <sup>2</sup> 2). Th the 3 have n of deterio 3 and the a 3 and the a	pection of t pht abutment 5, 280). See is, hollow a 7-221). tub abutment e abutment attached fil 07/24/2019 ew protective coa oration. 07/24/2019 attached file "07000 07/24/2019 attached file "07000	the stub a with an e inspection ireas and that sits exhibits sc e "070001 2,300.00 atings. See pt 103.00 01 Elem 215 Dec 30.00	electrica notes spalls on the attered Elem sq.ft ft ft ft ft ft ft ft	I utility reformed for electric with type river emetificresce 215 De 2,300.00 3-222 and the 0.00 pdf" for details 0.00 pdf" for deta	Photo 214) pom built ical room ical debris bankment ince and fect Table. 0.00 e attached file 29.00 of deterioration 15.00 of deterioration	into the a notes. The accumula with slope rust stainir .pdf" for 0.00 e "070001 Elect 74.00	butment butment abutm ation/pig protec ng and details 0.00 0.00
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ee photos eterioration. 521 Conc Pro T 1080 Delamina	ment #2 is a full height abu and 'l' (Photos 215-216, 280). Ecattered hairline cracks, holl the beam seat (Photos 217-221). Exment #1R is a semi-stub abu front (Photo 222). The abut II. Os 213-222 and the attache on. mc Prot Coating 3 07/24/ The abutments all have new protect Table.pdf" for details of deterioration.	ection of the abutment with 280). See insp hollow areas 221). b abutment tha abutment exhinant (ttached file " 07/24/2019 2 protective coatings tion. 07/24/2019	hat is hidden by debris and nestin of the stub abu- nent with an elector See inspection n w areas and sp ment that sits or ent exhibits scatt file "070001 9 2,300.00 e coatings. See photo 9 103.00	112         EleverenceRust Stalling         3         07242019         80.00         t         0.00         40.00         40.00         0.00           See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf' for details of deterioration.         1         0         Clasking (RC and Other)         3         07242019         115.00         n         0.00         60.00         65.00         0.00           See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf' for details of deterioration.         5         60.00         80.00         80.00         80.00         80.00         0.00 <td>Ale col khibits ast At ays 'H khibits esting of locks olate s ee ph eteriora 521</td> <td>outme l' an scaton the butme in fr pall. conc F</td> <td>ered hairline crack ent #2 is a fu d 'l' (Photos 2 ttered hairline beam seat (Photo ent #1R is a cont (Photo 22 213-222 and Prot Coating The abutments all Table.pdf" for details ination/Spall/Patched Area</td> <td>he ins cking. II heig 215-216 crack otos 21 semi-s 2). Th the 3 have n of deteric 3</td> <td>pection of t pht abutment 5, 280). See is, hollow a 7-221). tub abutment e abutment attached fil 07/24/2019 ew protective coa pration. 07/24/2019</td> <td>the stub a with an e inspection ireas and that sits exhibits sc e "070001 2,300.00 atings. See pt 103.00</td> <td>electrica notes spalls on the attered Elem sq.ft t</td> <td>I utility refore electric with type river emetfloresce 215 De 2,300.00</td> <td>Photo 214) pom built ical room ical debris bankment ince and fect Table. 0.00 e attached file 29.00</td> <td>into the a notes. The accumula with slope rust stainir .pdf" for 0.00 e "070001 Elect 74.00</td> <td>butment aining butment abutm ation/pig protec ng and details 0.00 m 215 D</td>	Ale col khibits ast At ays 'H khibits esting of locks olate s ee ph eteriora 521	outme l' an scaton the butme in fr pall. conc F	ered hairline crack ent #2 is a fu d 'l' (Photos 2 ttered hairline beam seat (Photo ent #1R is a cont (Photo 22 213-222 and Prot Coating The abutments all Table.pdf" for details ination/Spall/Patched Area	he ins cking. II heig 215-216 crack otos 21 semi-s 2). Th the 3 have n of deteric 3	pection of t pht abutment 5, 280). See is, hollow a 7-221). tub abutment e abutment attached fil 07/24/2019 ew protective coa pration. 07/24/2019	the stub a with an e inspection ireas and that sits exhibits sc e "070001 2,300.00 atings. See pt 103.00	electrica notes spalls on the attered Elem sq.ft t	I utility refore electric with type river emetfloresce 215 De 2,300.00	Photo 214) pom built ical room ical debris bankment ince and fect Table. 0.00 e attached file 29.00	into the a notes. The accumula with slope rust stainir .pdf" for 0.00 e "070001 Elect 74.00	butment aining butment abutm ation/pig protec ng and details 0.00 m 215 D
ee photos eterioration. <sup>521</sup> Conc Pro	ment #2 is a full height abu and 'l' (Photos 215-216, 280). Ecattered hairline cracks, holl the beam seat (Photos 217-221). Exment #1R is a semi-stub abu front (Photo 222). The abut II. os 213-222 and the attache on. mc Prot Coating 3 07/24/ The abutments all have new protect Table.pdf" for details of deterioration.	ection of the abutment with 280). See insp hollow areas 221). b abutment tha abutment exhil 	hat is hidden by debris and nestin of the stub abu- ment with an elector See inspection n w areas and sp ment that sits or ent exhibits scatt file "070001 9 2,300.00 e coatings. See photo	1120         Eleverstance/Ruit Staining         3         07/24/2019         60.00         8         0.00         40.00         40.00         0.00           See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf' for details of deterioration.         1100         Cracking rRC and Other)         3         07/24/2019         115.00         1         0.00         60.00         65.00         0.00           See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf' for details of deterioration.         5         60.00         0.00 <td< td=""><td>le col khibits ast At ays 'H chibits esting of locks olate s ee ph eteriora</td><td>ourms scatte outme i' an sca on the butme in fr pall. notos ation.</td><td>ered hairline crack ent #2 is a fu d 'l' (Photos 2 ttered hairline beam seat (Photo ent #1R is a cont (Photo 22 213-222 and <sup>2rot Coating</sup></td><td>he ins cking. II heig 215-216 crack otos 21 semi-s 2). Th the 3 have n of deterio</td><td>pection of t ght abutment 5, 280). See (s, hollow a 7-221). tub abutment e abutment attached fil 07/24/2019 ew protective coa pration.</td><td>the stub a with an e inspection reas and that sits exhibits sc e "070001 2,300.00 atings. See pt</td><td>electrica notes spalls on the attered Elem</td><td>I utility reformed for electric with type river emetafiloresce 215 De</td><td>Photo 214) pom built ical room ical debris bankment ince and fect Table.</td><td>into the a notes. The accumula with slope rust stainir .pdf" for</td><td>butment a abutm ation/pig protec ng and details</td></td<>	le col khibits ast At ays 'H chibits esting of locks olate s ee ph eteriora	ourms scatte outme i' an sca on the butme in fr pall. notos ation.	ered hairline crack ent #2 is a fu d 'l' (Photos 2 ttered hairline beam seat (Photo ent #1R is a cont (Photo 22 213-222 and <sup>2rot Coating</sup>	he ins cking. II heig 215-216 crack otos 21 semi-s 2). Th the 3 have n of deterio	pection of t ght abutment 5, 280). See (s, hollow a 7-221). tub abutment e abutment attached fil 07/24/2019 ew protective coa pration.	the stub a with an e inspection reas and that sits exhibits sc e "070001 2,300.00 atings. See pt	electrica notes spalls on the attered Elem	I utility reformed for electric with type river emetafiloresce 215 De	Photo 214) pom built ical room ical debris bankment ince and fect Table.	into the a notes. The accumula with slope rust stainir .pdf" for	butment a abutm ation/pig protec ng and details
ee photos eterioration.	ment #2 is a full height abu and 'l' (Photos 215-216, 280). ccattered hairline cracks, holl the beam seat (Photos 217-221). cment #1R is a semi-stub abu front (Photo 222). The abut ll. os 213-222 and the attache on.	action of the abutment with 280). See insp hollow areas 221). b abutment tha abutment exhile ittached file "	hat is hidden by debris and nestin of the stub abu- ment with an elec- See inspection n w areas and sp ment that sits or ent exhibits scatt file "070001	1120       Efferencemendenust Starring       3       0724/2019       80.00       ft       0.00       40.00       40.00       0.00         See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf" for details of deterioration.         1130       Cracking (#C and Other)       3       0724/2019       115.00       ft       0.00       60.00       55.00       0.00         See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf" for details of deterioration.         See photos 235-263 and the attached file '070001 Elem 210 Defect Table.pdf" for details of deterioration.         2017 Underwater Inspection.         Since the 2013 Underwater Inspection, there is evidence of scour at most piers up to 3.4' deep (Pier #8) and area aggradation up to 4.6' high (Pier #8).         See Conc Abutment       3       0724/2019       400.00       0.00       0.00         The pier walls on land exhibit isolated moderate to heavy graffiti (Photos 235-236).         EW       INSP_DATE       QUANTITY       UNITS       GTY       G	ast Ab ast Ab ays 'H khibits esting of locks olate s ee ph eteriora	outme outme l' an sca on the butme in fr pall. notos ation.	ered hairline crack ent #2 is a fu d 'l' (Photos 2 ttered hairline e beam seat (Pho ent #1R is a ront (Photo 22 213-222 and	he ins cking. II heig 215-216 crack otos 21 semi-s 2). Th the	pection of t ght abutment 5, 280). See (s, hollow a 7-221). tub abutment e abutment attached fil	the stub a with an e inspection areas and that sits exhibits so the "070001 2,300.00	electrica notes spalls on the attered Elem	I utility ro for electr with typ e river em effloresce 215 De	Photo 214) pom built ical room ical debris bankment nce and fect Table	into the a notes. The accumula with slope rust stainir .pdf" for	butment aining butment abutm ation/pig protec ng and details
ee photos eterioration.	ment #2 is a full height abu and 'l' (Photos 215-216, 280). ccattered hairline cracks, holl the beam seat (Photos 217-221). ment #1R is a semi-stub abu front (Photo 222). The abut II. os 213-222 and the attache	ection of the abutment with 280). See insp hollow areas 221). b abutment tha abutment exhil ttached file "	hat is hidden by debris and nestin of the stub abu- nent with an elec See inspection n w areas and sp ment that sits or ent exhibits scatt file "070001	1120       Ethoreacence/Hust Staining       3       0724/2019       80.00       t       0.00       40.00	Ane col xhibits ast Ab ays 'H xhibits esting o /est Al locks solate s ee ph eteriora	ournes scatte l' an sca on the butme in fr pall. notos	ered hairline crac ent #2 is a fu d 'l' (Photos : ttered hairline e beam seat (Pho ent #1R is a ront (Photo 22 213-222 and	he ins cking. II heig 215-216 crack otos 211 semi-s 2). Th the	pection of t ght abutment 5, 280). See (s, hollow a 7-221). tub abutment e abutment attached fil	the stub a with an e inspection reas and that sits exhibits so e "070001	electrica notes spalls on the attered	I utility ro for electr with typ river em effloresce 215 De	Photo 214) pom built ical room ical debris bankment ince and fect Table	into the a notes. The accumula with slope rust stainir	butment aining butment abutm ation/pig protec ng and details
ctive coatings.		200	Street off-ran	80.00     ft       1 Elem 210 Defect Table.pdf" f       115.00     ft       1 Elem 210 Defect Table.pdf" f       1 Elem 210 Defect Table.pdf" f       115.00     ft       is evidence of scour at m       400.00     ft       0 heavy graffiti (Photos 235-23)       QUANTITY     UNITS       230.00     ft	re reinforced concrete abutments at ea nt #2) and at the end of the Gano	einforced concrete abutments at ea and at the end of the Gano	ete abutments at ea end of the Gano	utments at ea f the Gano	ć	ach end o Street off-i	f the r amp (\	nair Nes	n struct t Abuti	n structure (West t Abutment #1R).	n structure (West Abutment t Abutment #1R). The abu
nforced concrete and at the en octive coatings.	e abutments nd of the (	ments at each the Gano Stre	at each end of f	3       07/24/2019       80.00       ft       0.00       40.00       40.00         d the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.         3       07/24/2019       115.00       ft       0.00       60.00       55.00         id the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.         3       07/24/2019       115.00       ft       0.00       60.00       55.00         id the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.         3       07/24/2019       115.00       ft       0.00       115.00       0.00         extion:       envater Inspection, there is evidence of scour at most piers up to 3.4' deep (Pier high (Pier #6).       3       07/24/2019       400.00       ft       0.00       400.00       0.00         axhibit isolated moderate to heavy graffiti (Photos 235-236).       OTY       QTY       QTY       QTY       OTY	ELEMENT NAME Re Conc Abutment	EMENT NAME		ENV 3	INSP. DATE 07/24/2019	QUANTITY 230.00	UNITS ft	CS 1 78.00	CS 2 44.00	CS 3	)
Re Co are rein nt #2) w prote	Element     INSP. D       te Conc Abutment     3       or/24/20       reinforced concrete abutments       #2) and at the end of the or	07/24/2019	230.00	Efflorescence/Rust Staining307/24/201980.00ft0.0040.0040.000.0See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.Cracking (RC and Other)307/24/2019115.00ft0.0060.0055.000.0See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.Scour307/24/2019115.00ft0.00115.000.000.02017 Underwater Inspection: Since the 2013 Underwater Inspection, there is evidence of scour at most piers up to 3.4' deep (Pier #8) and area aggradation up to 4.6' high (Pier #6).Graffiti307/24/2019400.00ft0.000.000.0The pier walls on land exhibit isolated moderate to heavy graffiti (Photos 235-236).50.000.000.00								QTY	QTY	QTY	QT
Re Co Re Co re are rein ntment #2) e new prote	ELEMENT NAME     ENV     INSP. D       Re Conc Abutment     3     07/24/20       reinforced concrete abutments     #2) and at the end of the of the end of the of the end	INSP. DATE ( 07/24/2019 : ments at each the Gano Stre	E QUANTITY L 230.00	1120       Efflorescence/Rust Staining       3       07/24/2019       80.00       ft       0.00       40.00       40.00       0.0         See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.       1130       Cracking (RC and Other)       3       07/24/2019       115.00       ft       0.00       60.00       55.00       0.0         1130       Cracking (RC and Other)       3       07/24/2019       115.00       ft       0.00       60.00       55.00       0.0         6000       Scour       3       07/24/2019       115.00       ft       0.00       115.00       0.00       0.00       0.00         6000       Scour       3       07/24/2019       115.00       ft       0.00       115.00       0.00       0.00         6000       Scour       3       07/24/2019       115.00       ft       0.00       115.00       0.00       0.00         2017 Underwater Inspection:       Since the 2013 Underwater Inspection, there is evidence of scour at most piers up to 3.4' deep (Pier #8) and area aggradation up to 4.6' high (Pier #6).       3       07/24/2019       400.00       ft       0.00       400.00       0.00       0.00			The pier walls on lan	d exhibit	isolated moderate	to heavy graffiti	(Photos 23	35-236).			5.0
ELET Re Co ere are rein utment #2) ve new prote	The pier walls on land exhibit isolated m         ELEMENT NAME       ENV       INSP. D         Re Conc Abutment       3       07/24/20         reinforced concrete abutments       #2) and at the end of the optimized on the end of the optimized on the end of the end end end end end end end end end en	INSP. DATE (0) 07/24/2019 : ments at each the Gano Stre	E QUANTITY L 230.00	1120         Efflorescence/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 "070001 Elem 210 Defect Table.pdf" for details of deterioration.         1130         Cracking (RC and Other)         3         07/24/2019         115.00         ft         0.00         60.00         55.00         0.00           See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.         Second State         Second State	8368	Graffiti	2017 Underwater Ins Since the 2013 Ur aggradation up to 4.6	spection: nderwater 6' high (P 3	Inspection, there ier #6). 07/24/2019	e is evidence	of scour	at most piers	up to 3.4' c	deep (Pier #8)	and are
8368 Graffiti 8368 Graffiti T ELEI Re Co ere are rein utment #2) ve new prote	2017 Underwater Inspection:         Since the 2013 Underwater Inspection         aggradation up to 4.6' high (Pier #6).         affiti       3         The pier walls on land exhibit isolated m         ELEMENT NAME       ENV         INSP. D         te Conc Abutment       3         07/24/20         reinforced concrete abutments         #2) and at the end of the of	INSP. DATE 07/24/2019	there is evidence of 9 400.00 erate to heavy graffiti (Ph E QUANTITY L 230.00 at each end of t	1120       Efflorescence/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 "070001 Elem 210 Defect Table.pdf" for details of deterioration.       1130       Cracking (RC and Other)       3       07/24/2019       115.00       ft       0.00       60.00       55.00       0.00         See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.       See photos 235-263 and the attached file "070001 Elem 210 Defect Table.pdf" for details of deterioration.       0.00	6000	Scour		3	07/24/2019	115.00	ft	0.00	115.00	0.00	0.0
6000 Scour 2 S a 8368 Graffiti T ELET Re Co ere are rein utment #2) ve new prote	3     07/24/       2017 Underwater Inspection:     Since the 2013 Underwater Inspection       Since the 2013 Underwater Inspection     aggradation up to 4.6' high (Pier #6).       affiti     3     07/24/       The pier walls on land exhibit isolated m     ELEMENT NAME     ENV       ELEMENT NAME     1NSP. D       te Conc Abutment     3     07/24/20       reinforced concrete abutments     #2) and at the end of the of	07/24/2019  Inspection, there is e #6). 07/24/2019  Iated moderate to hea  INSP. DATE 07/24/2019  ments at each the Gano Stree	9       115.00         there is evidence of         9       400.00         erate to heavy graffiti (Ph         E       QUANTITY         230.00         at each end of 1	1120       Efflorescence/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 "070001 Elem 210 Defect Table.pdf" for details of deterioration.       1130       Cracking (RC and Other)       3       07/24/2019       115.00       ft       0.00       60.00       55.00       0.00			See photos 235-263	and the a	attached file "07000	01 Elem 210 Det	ect Table.	pdf" for details	of deterioration		
6000 Scour 2 8368 Graffiti ELET Re Co ere are rein utment #2) ve new prote	See photos 235-263 and the attached fil         sour       3       07/24/         2017 Underwater Inspection:       Since the 2013 Underwater Inspection aggradation up to 4.6' high (Pier #6).         affiti       3       07/24/         The pier walls on land exhibit isolated m         ELEMENT NAME       ENV       INSP. D         te Conc Abutment       3       07/24/20         reinforced concrete abutments       #2) and at the end of the of	ached file "070001 Ele 07/24/2019 nspection, there is 6 #6). 07/24/2019 lated moderate to hea INSP. DATE 07/24/2019 ments at each the Gano Stre	070001 Elem 210 Defect 9 115.00 there is evidence of 9 400.00 erate to heavy graffiti (Ph E QUANTITY L 230.00 at each end of t	1120       Efflorescence/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 "070001 Elem 210 Defect Table.pdf" for details of deterioration.	1130	Cracki	ng (RC and Other)	3	07/24/2019	115.00	ft	0.00	60.00	55.00	0.0
1130 Cracking	acking (RC and Other)       3       07/24/         See photos 235-263 and the attached fil         sour       3       07/24/         2017 Underwater Inspection:         Since the 2013 Underwater Inspectio         aggradation up to 4.6' high (Pier #6).         affiti       3       07/24/         The pier walls on land exhibit isolated m         ELEMENT NAME       ENV       INSP. D         te Conc Abutment       3       07/24/20         reinforced concrete abutments       #2) and at the end of the other	07/24/2019 ached file "070001 Ele 07/24/2019 nspection, there is 6 #6). 07/24/2019 lated moderate to hea INSP. DATE 07/24/2019 ments at each the Gano Stre	9       115.00         070001 Elem 210 Defect         9       115.00         there is evidence of         9       400.00         erate to heavy graffiti (Ph         E       QUANTITY       U         230.00       each end of f	1120 Efflorescence/Rust Staining 3 07/24/2019 80.00 ft 0.00 40.00 40.00 0.0			See photos 235-263	and the a	attached file "07000	01 Elem 210 Det	ect Table.	pdf" for details	of deterioration		
1130 Cracking 1130 Cracking 6000 Scour 2 8368 Graffiti T ELET Re Co ere are rein utment #2) ve new prote	See photos 235-263 and the attached fil         acking (RC and Other)       3       07/24/         See photos 235-263 and the attached fil         sour       3       07/24/         2017 Underwater Inspection:         Since the 2013 Underwater Inspectio         aggradation up to 4.6' high (Pier #6).         affiti       3       07/24/         ELEMENT NAME       ENV       INSP. D         te Conc Abutment       3       07/24/20         reinforced concrete abutments       #2) and at the end of the of	ached file "070001 Ele 07/24/2019 Inched file "070001 Ele 07/24/2019 Inspection, there is 6 #6). 07/24/2019 Iated moderate to hea INSP. DATE 07/24/2019 Inspectation defines at each the Gano Stree	070001 Elem 210 Defect           9         115.00           070001 Elem 210 Defect           9         115.00           there is evidence of           9         400.00           erate to heavy graffiti (Pheeter is quantity is quality i					3	07/24/2019	80.00	ft	0.00	40.00	40.00	0.0

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	See photos 213-	222 and the	attached file "0700	01 Elem 215 Defe	ect Table.	pdf" for details of	of deterioration.		
8368	Graffiti	3	07/24/2019	200.00	ft	0.00	200.00	0.00	0.00
	West Abutment #	#1R has hea	vy graffiti covering	most of its surface	e (Photo 2	222).			
	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY	QTY CS 3	QTY CS 4
<b>220</b>	Re Conc Pile Cap/Ftg	3	07/24/2019	1,151.00	ft	1,150.00	1.00	0.00	0.00
2017 Or The ex wide an ' (full-he Piers #	aderwater inspectio posed pile caps s nd are exposed u eight) at Pier #3R (G #3R, #5 and #9 e	n: step out up to full sano Stree xhibit ex	from the face l-height with et Ramp). posed concre	e of the pie varying mea ete tremie se	r stem sureme eals uj	ns at varyir ents from : p to a ma	ng widths 1 2' (full-heig ximum ver	from 10" w ht) at Pier tical exposu	ide to 18 #5 to 9 ure of 3.
1130	Cracking (RC and Other)	undermir 3	07/24/2019	1.00	ft	0.00	1.00	0.00	0.00
	2017 Underwate Pier #3R pile cap	r Inspection: b has a crack	c 6' high x 3/16" wid	le extending from	the top c	of the pile cap.			
ELEM NBR	ELEMENT NAME	ENV	INSP DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
234	Re Conc Pier Cap	3	07/24/2019	388.00	ft	52.00	313.00	23.00	0.00
	See photos 223-	231 and the	attached file "0700	01 Elem 234 Defe	ect Table.	pdf" for further o	details.		
1090	Exposed Rebar See photos 223-	3 231 and the	07/24/2019 attached file "0700	1.00 01 Elem 234 Defe	ft ect Table.	0.00 pdf" for further o	1.00 details.	0.00	0.00
1120	Efflorescence/Rust Staining	3	07/24/2019	15.00	ft	0.00	7.00	8.00	0.00
	See photos 223-	231 and the	attached file "0700	01 Elem 234 Defe	ect Table.	pdf" for further o	details.		
1130	Cracking (RC and Other)	3	07/24/2019	12.00	ft	0.00	12.00	0.00	0.00
	See photos 223-	231 and the	attached file "0700	01 Elem 234 Defe	ect 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 CS 4
300	Strip Seal Exp Joint	3	07/24/2019	93.00	ft	0.00	88.00	5.00	0.00
to 56). off-ram	The portion of th p have been paved Leakage There is evidence	ie joint in over (Pho 3 ee of leakage	the right la tos 54, 64). 07/24/2019 through the joint o	5.00 n the underside d	ft ue to faili	0.00 ng joint seal (Pt	5.00 notos 65-66).	0.00	
2330	Seal Damage	3	07/24/2019	10.00	ft	0.00	10.00	0.00	0.00
N Vor Ino	naction SIA English						E.	44/04/0040	

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2350			loose/s	agging/fallen along	the underside (P	hotos 65-	66).			
	Debris	Impaction	3	07/24/2019	5.00	ft	0.00	5.00	0.00	0.00
		The joint has full leng	th partia	al debris impaction t	hat still allows fre	e mover	nent of the joint	(Photo 56).		
2370	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 of	on the over (P	e east side of the hoto 56)	joint in the wh	eel line	of the right m	niddle lane ha	s a 3'long m	issing secti
EM BR	EL	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
01	Pour	able Joint Seal	3	07/24/2019	1,151.00	ft	507.00	544.00	85.00	15.00
7. All j constru and dep	joints iction presse	have been pav (Photos 7, 42- d pavement with	, ed ov 44). minor	ver in the rig The wearing r potholes, and	ht lanes of surface alo random loca	I-195 ng deo tions of	Westbound ck joint eo f raveling (P	as part of dges exhib hotos 55, 5	f the on-go its scattere 7-59, 62).	ing brid d patch
2310	Leakag	ge	3	07/24/2019	344.00	ft	0.00	344.00	0.00	0.00
		The joints exhibit scat	ttered e	vidence of leakage	along the unders	ides (Pho	otos 94, 104).			
2320	Seal A	dhesion	3	07/24/2019	300.00	ft	0.00	200.00	85.00	15.00
		The pourable joint failure (Photos 55, 57	seals -59, 62	exhibit typical los ).	s of seal adhe	sion up	to full length	with isolated	locations of	full adhes
M	E1		ENIV				QTY	QTY	QTY	QTY
R		EMENT NAME		INSP. DATE	QUANTIT	UNITS	CS 1	CS 2	CS 3	CS 4
R 10 There a - P/S co	Elast re elas	ement NAME omeric Bearing stomeric bearing drop-in girder da	3 pads	07/24/2019 for the followin	401.00 g elements a proels in Spar	each nd loca	CS 1 136.00 ntions: rough #6 ar	CS 2 190.00	CS 3 75.00	CS 4
R There a - P/S co - Post-te - P/S co - Conce pier wal	Elast re elas oncrete ension oncrete rete fa Ils in S	ement name omeric Bearing stomeric bearing drop-in girder da ded concrete cant legirders in Spar ascia arches at spans #1R throug	pads appec ilever ns #14 the h #3R	for the followin l ends at the co girder ends at through #18 shiplap joints	401.00 g elements a orbels in Spar the east wall in Spans #	each nd loca ns #1 th of Pier	CS 1 136.00 Intions: Irrough #6 ar #6 and the ugh #6 and	cs 2 190.00 nd #8 throug west wall of d Spans #8	cs 3 75.00 Ih #14 F Pier #7 3 through #	CS4 0.00
R 10 There a P/S co Post-te P/S co Conci Dier wal	Elast re elas oncrete ension oncrete rete fa Ils in S	ement NAME omeric Bearing stomeric bearing drop-in girder da drop-in girder da drop-in girder da drop-in girders da drop-in girders in Spar ascia arches at spans #1R throug	pads appec illever ns #14 the h #3R	or/24/2019 for the followin l ends at the co girder ends at through #18 shiplap joints	401.00 g elements a orbels in Spar the east wall in Spans # 4.00	each nd loca ns #1 th of Pier 1 throu each	CS 1 136.00 Intions: Irough #6 and #6 and the ugh #6 and 0.00	CS 2 190.00 ad #8 throug west wall of d Spans #8	CS 3 75.00 Jh #14 F Pier #7 3 through #	CS4 0.00 #13 and 0.00
R 10 There a P/S co Post-tr P/S co Conci pier wal	Elast re elas oncrete ension oncrete rete fa Ils in S Alignm	All measurements we	pads appec ilever ns #14 the h #3R 3	for the followin l ends at the co girder ends at through #18 shiplap joints 07/24/2019 rded at a temperatu	401.00 g elements a prbels in Spar the east wall in Spans # 4.00 re of 80 90 degree	each nd loca is #1 th of Pier 1 throu each ees Fahre	CS 1 136.00 Itions: Irrough #6 ar #6 and the ugh #6 and 0.00	CS 2 190.00 ad #8 throug west wall of d Spans #8	CS 3 75.00 Jh #14 F Pier #7 3 through # 4.00	CS4 0.00 #13 and 0.00
IThere a - P/S co - Post-tu - P/S co - Conci pier wal	Elast re elas oncrete ension oncrete rete fa Ils in S	ement NAME omeric Bearing a drop-in girder da a drop-in girder da a drop-in girder da a drop-in girder da a drop in girder to Photo 147) The bear	pads appec tilever hs #14 the h #3R 3 ere reco pearings in	07/24/2019 for the followin l ends at the co girder ends at through #18 shiplap joints 07/24/2019 rded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a	401.00 g elements a orbels in Spar the east wall in Spans # 4.00 re of 80 90 degree rough #3, #6, # and #12 are typic	each nd loca is #1 th of Pier 1 throu each each each 8, #9, # ally neutra	CS 1 136.00 136.00 141 136.00 156 156 156 157 157 157 157 157 157 157 157	CS 2 190.00 ad #8 throug west wall of d Spans #8 0.00 414 are typical up to 1"	CS 3 75.00 Jh #14 F Pier #7 3 through # 4.00	CS4 0.00 <b>#13 and</b> 0.00 n up to ½
R 10 There a - P/S co - Post-tu - P/S co - Concu pier wal	Elast re elas oncrete ension oncrete rete fa Ils in S	ement NAME omeric Bearing atomeric bearing atomeric bearing atomeric bearing atomeric bearing atomeric bearing atomeric bearings atomeric bearings The I Girder bearings The fascia arch bearing	pads appec illever ns #14 the h #3R 3 ere reco bearings ings in in Spa	or/24/2019 for the followin l ends at the co girder ends at through #18 shiplap joints or/24/2019 rded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a ns #15 through #18	401.00 g elements a probels in Spar the east wall in Spans # 4.00 re of 80 90 degree rough #3, #6, # and #12 are typical are typically neu #3R typically neu	each nd loca ns #1 th of Pier 1 throu each each each each each each each each	CS 1           136.00           irough #6 ar           irough #6 and the           ugh #6 and the           ugh #6 and           0.00           inheit           11, #13 and #           al or expanded           panded up to ½           panded up to ½	CS 2 190.00 ad #8 throug west wall of d Spans #8 0.00 #14 are typical up to 1" " (Photo 206) " (Photo 209)	CS 3 75.00 Ih #14 F Pier #7 3 through # 4.00	CS4 0.00 #13 and 0.00
III Inhere a - P/S co - Post-ta - P/S co - Conci pier wal 2220	Elast re elas oncrete ension oncrete rete fa Ils in S Alignm	ement NAME omeric Bearing a drop-in girder da be d concrete cant a l-girders in Spar ascia arches at Spans #1R throug ment All measurements we The drop in girder the Photo 147) The bear The I Girder bearings The fascia arch bearing g, Splitting or Tearing	pads appec ilever os #14 the h #3R 3 ere reco bearings ings in in Spa	or/24/2019 for the followin l ends at the co girder ends at through #18 shiplap joints or/24/2019 rded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a ns #15 through #18 Spans #1R through #	401.00 g elements a prbels in Spar the east wall in Spans # 4.00 re of 80 90 degre rough #3, #6, # and #12 are typically neu #3R typically neu 200.00	each nd loca as #1 th of Pier 1 throu each each each each ally neutra tral or exp each	CS 1 136.00 Itions: Irrough #6 ar #6 and the ugh #6 and 0.00 Inheit 11, #13 and # al or expanded banded up to ½ 0.00	CS 2 190.00 ad #8 throug west wall of d Spans #8 0.00 #14 are typical up to 1" " (Photo 206) " (Photo 209) 150.00	CS 3 75.00 1h #14 F Pier #7 3 through # 4.00 ly in contractio 50.00	CS 4 0.00 #13 and 0.00 n up to 1/2 0.00
R 10 There a P/S co Post-te P/S co Conce 2220 2220	Elast re elas porcrete ension porcrete rete fa Ils in S Alignm	ement NAME omeric Bearing a drop-in girder da b drop-in girder da b drop-in girder da b drop-in girder da b drop-in Spar ascia arches at Spans #1R throug ment All measurements we The drop in girder to Photo 147) The bear The I Girder bearings The fascia arch bearing g, Splitting or Tearing The bearing pads isolated bearings exh	pads appec illever ns #14 the h #3R 3 ere reco bearings ings in 5 angs in 5 3 exhibit ibit hea	or/24/2019 for the followin l ends at the co girder ends at through #18 shiplap joints or/24/2019 rded at a temperatu s in Spans #1 thr Spans #4, #5, #10 a ns #15 through #18 Spans #1R through #18 or/24/2019 t random minor vier bulging with up	401.00 g elements a probels in Spar the east wall in Spans # 4.00 re of 80 90 degree rough #3, #6, # and #12 are typically neur #3R typically neur 200.00 tears throughou to ½" separation	each nd loca as #1 th of Pier 1 throu each each each tral or exp each t. Randu at top of	CS 1 136.00 Itions: Irough #6 ard #6 and the ugh #6 and 0.00 Inheit 11, #13 and # al or expanded banded up to ½ 0.00 0.00 0.00 0.00	CS 2 190.00 Ind #8 throug west wall of d Spans #8 0.00 414 are typical up to 1" " (Photo 206) " (Photo 209) 150.00 exhibit minor Photos 208-208	CS 3 75.00 1h #14 F Pier #7 3 through # 4.00 ly in contraction 50.00 to moderate 3).	CS4 0.00 #13 and 0.00 n up to 1/2 0.00 bulging a

#### 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				OUANTITY	LINITS	QTY	QTY	QTY	QTY
NBR	ELEMENT NAME	EINV	INSF. DATE	QUANTIT	UNITS	CS 1	CS 2	CS 3	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).

	515	Steel Protective Coating	3	07/24/2019	132.00	sq.ft	0.00	0.00	44.00	88.00
		The bearings hav and 'K' have no pa	e a ste nt remair	el protective coatin ning (Photo 210).	g with areas of	peeling	paint and lig	ht to moderate	e rust. Bearing	is 'A', 'B', 'J'
-		3420 Peel/Bub/Crack(Stl	Protect Coa	at 3 07/24/20	19 132.00	) 5	sq.ft 0.00	0.00	44.00	88.00
		) See	515 - Ste	el Protective Coating	g notes.					
	1000	Corrosion	3	07/24/2019	9.00	each	0.00	7.00	2.00	0.00
		The bearings and rust on the bearing	anchor and and	bolts typically ha bolts typically ha	ve light to moc 3/8" thick pack ru	lerate ru st betwee	st. Bearings ' en the bearing	A', 'B', 'J' and plates (Photo 21	d 'K' have hea 0).	avy laminated
	2220	Alignment	3	07/24/2019	1.00	each	0.00	0.00	1.00	0.00
		The bearings ex with no gap at the	nibit typi outh end	ical minor expansi d and a 1" gap at the	on at 80 degr north end of the	ees Fah restraint p	renheit (Phot plate (Photo 21	o 210). Bearir 2).	ng 'A' assemb	ly is uneven
	2240	Loss of Bearing Area	3	07/24/2019	1.00	each	0.00	0.00	1.00	0.00
		Bearing 'K' is une to 1" long (Photo 2	lermined 18).	at the north east	corner 4" wide	x 4" lo	ng x 2" deep	and along the	e west edge 1	6" wide x up
							071			071
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	CS 1	QTY CS 2	QTY CS 3	QTY CS 4
ELEM NBR 313		ELEMENT NAME Fixed Bearing	ENV 3	INSP. DATE 07/24/2019	QUANTITY 11.00	UNITS each	QTY CS 1 0.00	QTY CS 2 8.00	QTY CS 3 3.00	QTY CS 4 0.00
SISTERATION STREET	re ar ring p ga	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the be	INDER	INSP. DATE 07/24/2019 n Span #7 at e west face o restraints at f	QUANTITY 11.00 Pier #7 tha f each bear the west fac	units each t have ing. Ti ce (per	e limited av here are u	erry Reference of the second	ary cs 3 3.00 full inspecti ridth x ½" earings hav	on due to high x 6"
BLEM NBR 313 The beau dee mod	re ar ring p ga derate	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the be e accumulation of sa	Ings ings ings ings ings ings ings ings i	INSP. DATE 07/24/2019 n Span #7 at e west face o restraints at f debris (Photo )	QUANTITY 11.00 Pier #7 tha If each bear the west fac 211).	units each t have ing. Ti ce (per	e limited au here are u	erv es 2 e.oo ccess for f p to full w ns). The b	ull inspecti vidth x ½" earings hav	on due to high x 6" /e light to
313 313 The beau dee moo	re ar ring p ga derate	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the be e accumulation of sa Steel Protective Coating	ENV 3 ings if at th earing nd and 3	INSP. DATE 07/24/2019 n Span #7 at e west face o restraints at f debris (Photo 2 07/24/2019	QUANTITY 11.00 Pier #7 tha f each bear the west fac 211). 110.00	UNITS each t have ing. TI ce (per	e limited au here are u rehab pla	CCESS for f p to full w ns). The b	arry cs 3 3.00 ull inspecti ridth x ½" earings hav	on due to high x 6" re light to
ELEM NBR 313 The beau dee moo	re ar ring p ga derate	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the be e accumulation of sa Steel Protective Coating The fixed bearing Bearings 'A', 'B', 'J	ENV ings in at the earing nd anc 3 s have and 'K' h	INSP. DATE 07/24/2019 n Span #7 at e west face of restraints at f debris (Photo 07/24/2019 a steel protective nave no paint remain	QUANTITY 11.00 Pier #7 tha f each bear the west fac 211). 110.00 coating with a ing.	UNITS each t have ing. TI ce (per sq.ft reas of	e limited au here are u rehab pla	ary cs 2 8.00 ccess for f p to full w ns). The b	arry cs 3 3.00 will inspecti ridth x 1/2" earings hav 66.00 moderate rust	(Photo 211).
ELEM NBR 313 The beau dee moo	re ar ring p ga derate	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the bu e accumulation of sa Steel Protective Coating The fixed bearing Bearings 'A', 'B', 'J 3420 PedeuBub/Crack(Stl	ENV ings in at the earing nd and 3 s have and 'K' h Protect Coa	INSP. DATE 07/24/2019 n Span #7 at e west face of restraints at f d debris (Photo 12) 07/24/2019 a steel protective have no paint remain at 3 07/24/20	QUANTITY 11.00 Pier #7 tha f each bear the west fac 211). 110.00 coating with a ing. 19 110.00	UNITS each t have ing. Th se (per sq.ft reas of	e limited au here are u rehab pla	ary CS 2 8.00 ccess for f p to full w ns). The b 0.00 with light to 1 0.00	arry cs 3 3.00 full inspecti ridth x ½" earings hav 66.00 moderate rust 66.00	0.00 0.00 0n due to high x 6" /e light to 44.00 (Photo 211). 44.00
ELEM NBR 313 The bea dee moc	re ar ring p ga derate	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the bu- e accumulation of sa Steel Protective Coating The fixed bearing Bearings 'A', 'B', 'J 3420 Peel/Bub/Crack(Sti ) See	ENV 3 ings in at th earing nd and 3 s have and 'K' h Protect Coa 515 - Ste	INSP. DATE 07/24/2019 n Span #7 at e west face of restraints at 1 debris (Photo 07/24/2019 a steel protective nave no paint remain at 3 07/24/20 rel Protective Coating	QUANTITY 11.00 Pier #7 tha f each bear the west fac 211). 110.00 coating with a ing. 19 110.00 g notes.	UNITS each t have ing. TI se (per sq.ft reas of	e limited au here are u rehab pla	ary cs 2 8.00 ccess for f p to full w ns). The b 0.00 with light to 1 0.00	arry cs 3 3.00 ull inspecti ridth x 1/2" earings hav 66.00 moderate rust 66.00	(Photo 211).
Steel Steel	re ar ring p ga derate 515	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the bu e accumulation of sa Steel Protective Coating The fixed bearing Bearings 'A', 'B', 'J 3420 Peel/Bub/Crack(Stl ) See Corrosion	ENV ings in at the paring nd ance 3 s have and 'K' h Protect Coal 515 - Stel 3	INSP. DATE 07/24/2019 n Span #7 at e west face of restraints at f d debris (Photo 07/24/2019 a steel protective have no paint remain a 3 07/24/2019 07/24/2019	QUANTITY 11.00 Pier #7 tha f each bear the west fac 211). 110.00 coating with a ing. 19 110.00 g notes. 11.00	UNITS each t have ing. Th se (per sq.ft reas of p s each	e limited au here are u rehab pla	ary cs 2 8.00 ccess for f p to full w ns). The b 0.00 with light to 1 0.00 8.00	arry cs 3 3.00 will inspecti ridth x 1/2" earings hav 66.00 moderate rust 66.00 3.00	(Photo 211). 0.00
ELEM NBR 313 The bear dee moo	re ar ring p ga derate 515	ELEMENT NAME Fixed Bearing re fixed Steel bear restraints in place ps beneath the be accumulation of sa Steel Protective Coating The fixed bearing Bearings 'A', 'B', 'J 3420 Peel/Bub/Crack(Sti ) Corrosion The bearings and laminated rust on t	ENV ings in at th paring nd anc 3 s have and 'K' h Protect Coa 515 - Ste 3 anchor ne bearin	INSP. DATE 07/24/2019 n Span #7 at e west face of restraints at 1 d debris (Photo 2) 07/24/2019 a steel protective have no paint remain at 3 07/24/20 pel Protective Coating 07/24/2019 bolts typically hav gs and anchor bolts.	QUANTITY 11.00 Pier #7 tha of each bear the west fac 211). 110.00 coating with a ing. 19 110.00 g notes. 11.00 re light to mode	UNITS each t have ing. The sq.ft reas of p s each each	e limited au here are u rehab pla	ary CS 2 8.00 Cccess for f p to full w 0.00 with light to 0.00 8.00 8.00 Bearings 'A',	arry cs 3 3.00 full inspecti fidth x 1/2" earings hav 66.00 moderate rust 66.00 3.00 'B', 'J' and 'K	(Photo 211). 44.00 (Photo 211). 44.00 (Choto 211). 44.00 (Choto 211). (Choto 211). (Choto 211).
ELEM NBR 313 The beal dee moo	re ar ring p ga derate 515	ELEMENT NAME Fixed Bearing re fixed steel bear restraints in place ps beneath the bu- ps beneath the bu- paccumulation of sa Steel Protective Coating The fixed bearing Bearings 'A', 'B', 'J 3420 Peel/Bub/Crack(Stl ) See Corrosion The bearings and laminated rust on t ELEMENT NAME	ENV ings in at the paring nd anc 3 s have and 'K' h Protect Coa 515 - Ste 3 anchor he bearin ENV	INSP. DATE 07/24/2019 n Span #7 at e west face of restraints at 1 d debris (Photo ) 07/24/2019 a steel protective nave no paint remain at 3 07/24/2019 bolts typically hav gs and anchor bolts. INSP. DATE	QUANTITY 11.00 Pier #7 tha of each bear the west fac 211). 110.00 coating with a ing. 19 110.00 g notes. 11.00 re light to mode QUANTITY	UNITS each t have ing. TI sq.ft reas of each each units	CS 1     CS 1     O.00     Imited a     here are u     rehab pla     O.00     peeling paint     Sq.ft O.00     O.00     t (Photo 211).     QTY     CS 1	۲۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	arry cs 3 3.00 full inspecti ridth x 1/2" earings hav 66.00 moderate rust 66.00 3.00 'B', 'J' and 'K	(Photo 211). 44.00 (Photo 211). 44.00 (Photo 211). 44.00 (211). 44.00 (211). 44.00 (211). (

CN\_Ver\_Inspection\_SIA\_English

# Bridge Inspection Report

The surfac	reinford ces (Pho	ed concrete a otos 1-5, 67-71).	pproa	ach slabs ar	e concealed	l from	ı view by	bitumino	us concrete	e wearir
51	10 Wearir	ng Surfaces	3	07/24/2019	2,352.00	sq.ft	1,352.00	500.00	500.00	0.00
		The wearing surfaces	have i	moderate wheel line	rutting with seale	ed and un	sealed cracks t	hroughout (Pho	otos 67-71).	
	32	20 Crack (Wearing Surfac	e)	3 07/24/20	19 2,352.0	00 S	sq.ft 1,352.0	500.00	500.00	0.00
		See 51	0 We	earing Surface notes						
			-	I			1		1	
.EM BR	El	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
331	Re Co	nc Bridge Railing	3	07/24/2019	3,808.00	ft	3,396.00	411.00	1.00	0.00
o 42) d as interio	or faces	ninorced concre nerous sections of the bridge s of the bridge e pylons is includ	of ti rehal railii	he railings at bilitation (Pho ngs, many wit	the deck jo to 74). The h broken co	pints w re are overs	vere recent e scattered (Photos 46	ly demolis l utility b -48, 273, 2	hed and re- ox covers 275). The co	along t
10	080 Delam	ination/Spall/Patched Area	3	07/24/2019	10.00	ft	0.00	10.00	0.00	0.00
	Detalli						0.00		-	3.00
		The bridge railings at Pier #14 has a 12" The pylons exhibit tyr	exhibit long x	isolated minor edg 6" high x 1" deep sp	ge spalls along all.	the top	of the railing	(Photo 76). I	n Span #14 the	north rai
11	120 Efflore	cence/Ru t Staining	3	07/24/2019	1 00	ft	0 00	0 00	1 00	0 00
		See 1130 Cracking	notes							
11	130 Cracki	ng (RC and Other)	3	07/24/2019	351.00	ft	0.00	351.00	0.00	0.00
		The bridge railings scattered cracks and	exhib rust sta	oit typical scattere ains (Photos 77-80).	d full height h	airline v	ertical cracks	(Photo 75).	The pylons e	xhibit typi
70	000 Damag	ge	3	07/24/2019	50.00	ft	0.00	50.00	0.00	0.00
		The bridge railings ex	hibit ra	andom minor scrapes	δ.					
.EM	EI	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY	QTY	QTY	QTY
060		Scupper	3	07/24/2019	27.00	(EA)	0.00	3.00	20.00	4.00
The s the C open shoul #17 h box g	scupper Gano Si with c Ider is has a d irders h	drainage grate treet Off-Ramp lean drain pipe fully clogged an lisconnected sec ave been replace	s ald are f ope nd m ction d with	ong both shou fully clogged nings (Photos issing the dra (Photo 270). n new PVC pipir	ulders of I-1 with sand a 82, 268). I ninage grate The drain p ng (Photo 192	95 We and de n Spai (Photo ipes of 2).	stbound an bris; only n #17 the o 269). The n the inter	nd along f isolated g drainage g drain pip ior of the	the north sh grates remain grate along be at the en Gano Stree	noulder n partia the no nd of P t off-rai
10	000 Corros	sion	3	07/24/2019	4.00	(EA)	0.00	0.00	0.00	4.00
		The scupper drain south face of Column	pipes 'A' and	on the underside d on the north face o	of deck exhibi f Column 'F' have	t typical e rust hole	light to heav es and leak onto	y rust. The members belo	Pier #3 drain p ow (Photo 95).	oipes on
.EM BR	El	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
107	Steel Opn	Girder/Beam ENDS	1	07/24/2019	110 00	ft	0 00	0 00	110 00	0 00
See E	lement	107 notes, photos	s 122-	127 and the atta	ached file "07	'0001 E	lem 107 Def	ect Table.p	df".	
51	15 Steel F			07/04/0040						
		Protective Coating	1	07/24/2019	1,615.00	sq.ft	0.00	0.00	615.00	1,000.00

Bridge Inspection Report

			See Element 107 no	tes, pho	otos 122-127 and the	e attached file "07	'0001 Ele	m 107 Defect Ta	able.pdf".		
-		34	20 Peel/Bub/Crack(Stl Pi	otect Coa	t 1 07/24/20	1,615.	00 5	sq.ft 0.00	0.00	615.00	1,000.0
			) See E	lement	107 notes, photos 1	22-127 and the a	ttached fi	ile "070001 Elen	n 107 Defect Ta	able.pdf".	
.EM	<u> </u>							QTY	QTY	QTY	QTY
3R		EL		ENV	INSP. DATE	QUANTITY	UNITS	CS 1	CS 2	CS 3	CS 4
213		R/U	Return wall	3	07/24/2019	175.00	(LF)	0.00	150.00	25.00	0.00
ine 2 a veg	re a Ind etati	at bo on gro	th ends of Wo wth.	ete re est A	butment #1R	(Photos 264	nas oi -267).	The return	walls hav	and East A ve moderate	to he
	1080	Delam	nation/Spall/Patched Area	3	07/24/2019	44.00	(LF)	0.00	44.00	0.00	0.00
			The top of the nor 264).	thwest	return wall at We	st Abutment #1	has mu	ltiple edge spa	lls along the	cope up to 2'	'deep (P
	1120	Efflore	cence/Rust Staining	3	07/24/2019	110.00	(LF)	0.00	85.00	25.00	0.00
			The return walls have	e scatte	ered areas of hairline	e map cracks with	isolated	efflorescence ar	nd rust (Photos	264-267).	
	1130	Cracki	ng (RC and Other)	3	07/24/2019	21.00	(LF)	0.00	21.00	0.00	0.00
			See 1120 Efflorescer	nce/Rus	st Staining notes.						
	8368	Graffiti		3	07/24/2019	100.00	(LF)	100.00	0.00	0.00	0.00
			There is anti-graffiti p	oaint an	d light graffiti on the	West Abutment #	1R returr	n walls (Photos 2	266-267).		
EM		EL	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY
218		Back	wall, All Types	3	07/24/2019	230.00	(LF)	104.00	80.00	46.00	0.00
The due	to tl	are re he hea	einforced conci	rete l n of pi	backwalls at ti igeon debris an	the abutmer	eons o	est Abutme	nt #1 bac ent seat (Pr	ckwall is in noto 214).	naccess
	1060	Delam	nation/Spall/Patched Area	3	07/24/2019	80.00	(LF)	0.00	70.00	10.00	0.00
			West Abutment #1F deep.	R and	East Abutment #2	backwalls exhib	it randor	m hollow and i	minor spalls u	ip to 2' long x	2' high
	1120	Efflore	cence/Rust Staining	3	07/24/2019	23.00	(LF)	0.00	10.00	13.00	0.00
			West Abutment # and rust staining (Ph	IR and otos 21	d East Abutment 7, 222).	#2 backwalls	exhibit	typical scattere	ed hairline v	ertical cracks,	effloresc
	1130	Cracki	ig (RC and Other)	3	07/24/2019	23.00	(LF)	0.00	0.00	23.00	0.00
			West Abutment # and rust staining (Ph	IR and otos 21	d East Abutment 7, 222).	#2 backwalls	exhibit	typical scattere	ed hairline v	ertical cracks,	effloresc
EM BR		EL	EMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
305		Aspha	tic Joint Material	3	07/24/2019	1,438.00	(LF)	987.00	451.00	0.00	0.00
The 6 a #17. brid	rea ndo . Al lgec	re as on the I join	phaltic plug jo west side of ts have been uction (Photos 7	ints c Piers pave , 42-4	on the east sid #8 through # d over in the 4, 60-61).	de of West 13. There a e right lane	Abutmo re also s of l	ent #1 and asphaltic   I-195 Westb	Piers #1 plug joints pound as	through #3, at Piers # part of the	#5 an 14 thro e on-go
	2310	Leaka	e	3	07/24/2019	430.00	(LF)	0.00	430.00	0.00	0.00
			The joints exhibit sca	attered e	evidence of leakage	along the unders	ides (Pho	otos 142, 164-16	5).		
			The joints exhibit sca	attered e	evidence of leakage	along the unders	ides (Pho	otos 142, 164-16	5).		

Bridge Inspection Report

	0040	Structure	Inv	entory and	Appraisal	Shee	et (Englis	h Units)		
	2340	Seal Cracking	3	07/24/2019	21.00	(LF)	0.00	21.00	0.00	0.00
		The asphaltic plug join	its exr	noit partial separatio	ns at joint edges	and Isola	ted cracks alon	g the joints (Pho	0105 60-61).	
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8335		Guardrail, Vehicular	3	07/24/2019	700.00	(LF)	550.00	150.00	0.00	0.00
The 5). brid the	re a The Ige   gore	re W-beam steel gu Gano Street off-rar parapet that continue between I-195 Westbo	ardra np l e to und a	ils at the nor nas new W-be the west app and the Gano S	rth side of eam steel g proach (6, 5 treet off-ramp	the aj juardra 60-54, o (Phote	oproaches ils attache 91). There o 54).	for I-195 V d to the is a new	Vestbound interior fac impact att	(Photos 3 es of the enuator a
_	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 ga	lvanize	ed. The I-195 approa	ch 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 g	uardra	ils 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 o approach guardrail a to 88).	ff-ram at We	p guardrails have st Abutment #1R	scattered loose has missing cor	connec	ction bolts to bolts at the 4	the parapets 4th and 5th p	(Photo 89). ⊺ osts from the	The northwes endpost (Pho
	7000	Damage	3	07/24/2019	40.00	(LF)	0.00	40.00	0.00	0.00
		The I-195 approac northeast guardrails (I	h gua Photos	ardrails have 20' 3,90).	long areas of	f impact	: damage wit	h leaning po	sts at the n	orthwest and
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8336		Conc Bridge Parapet	3	07/24/2019	700.00	(LF)	350.00	320.00	30.00	0.00
The the	Ga top f	no Street off-ramp h ace (Photos 6, 54, 73).	ias a	a reinforced c	oncrete brid	ge pa	rapet with	a single r	netal rail a	ttached to
_	1080	Delamination/Spall/Patched Area	3	07/24/2019	100.00	(LF)	0.00	100.00	0.00	0.00
		The parapets exhibi 84). The north para x 2" deep spall with m During the rehab p crack/seam that ru would be nothing to ca	t typic pet at ultiple roject ns at	cal scattered crack midspan of Span exposed rebars (Ph the contractor fou bout 1"-2" in. Th them to if they remo	s, hollow areas #1R has an 8' oto 85). Ind that basicall ey didn't repla oved the existing	and ra -0" long y the e ce the bolts.	ndom 1" dee  x up to 16"   ntire face of guardrail pos	p spalls along high hollow are the north para ts because th	the top of p ea with 5'-6" k apet was hollo ney were con	arapet (Photo ong x 9" higł w. There's a cerned there
	1090	Exposed Rebar	3	07/24/2019	100.00	(LF)	0.00	70.00	30.00	0.00
		See 1080 Delamination	on/Spa	II/Patched Area note	S.					
	1130	Cracking (RC and Other)	3	07/24/2019	150.00	(LF)	0.00	150.00	0.00	0.00
		The parapets exhibi height x ¼" wide vertion	t typic cal cra	cal scattered hairlir ck (Photo 86).	ne vertical crack	s (Phot	os 84, 87). T	he north para	pet at Pier #2	2R has a ful
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8366		Rip Rap	3	07/24/2019	1,000.00	sq.ft	940.00	30.00	30.00	0.00

## Bridge Inspection Report

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.										
4000 Settlement 3 07/24/2019 60.00 sq.ft 0.00 30.00 30.00 0.00										
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 (Photo 222).										
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8367		Slope Blocks	3	07/24/2019	700.00	sq.ft	595.00	0.00	105.00	0.00
There is a sloped block revetment in front of West Abutment #1R. The slope block protection has mortar deterioration between the pavers and light to moderate vegetation growth (Photo 222).										
ELEM NBR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8370		Steel Diaphragms	3	07/24/2019	70.00	(EA)	13.00	36.00	17.00	4.00
The and	There are steel diaphragms between the steel girders in Span #7 labeled end diaphragms at each pier and intermediate diaphragms numbered west to east (Photo 30).         515       Steel Protective Coating       3       07/24/2019       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 (Photo 203). The intermediate diaphragms have typical paint chalking and random areas of light rust (Photo 204).									
	3410 Chaik(Steel Protect Coatings) 3 07/24/2019 900.00 sq.rt 0.00 900.00 0.00 0.00 0.00									
-	3420 Peel/Bub/Crack(Stl Protect Coat 3 07/24/2019 522.00 sq.ft 0.00 225.00 207.00 90.00									
		See 51.	5 - Ste	el Protective Coating	g notes.					
	1000 (	Corrosion	3	07/24/2019	55.00	(EA)	0.00	35.00	16.00	4.00
The end diaphragms exhibit typical moderate to heavy rust and corrosion throughout with down to 1/8" remaining thickness to top flanges and down to 1/4" remaining thickness to bottom flanges (Photo 203). There is scattered pack rust up to 3/8" thick between the bearing stiffeners and diaphragm connection plates.										
	1020 (	The intermediate diap	hragm 3	07/24/2019	s of light rust (Ph	oto 204).	0.00	1.00	1.00	0.00
		Bay 'E' Diaphragm #1 has a two (2) mis-o	#5 at drilled	Girder 'F' has one bolt holes.	e (1) missing lov	ver diap	hragm connec	ion bolt (Phote	o 204). Bay	H' Diaphragm
ELEM NBR		ELEMENT NAME	ENV	INSP DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8371		Conc Diaphragms	3	07/24/2019	221.00	each	35.00	68.00	113.00	5.00

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 197, 200). 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 Delamination/Spall/Patched Area 07/24/2019 52.00 0.00 0.00 52.00 0.00 each See photos 194-202 and the attached file "070001 Elem 8371 Defect Table.pdf" for further details. 1090 Exposed Rebar 3 07/24/2019 12.00 each 6.00 1.00 5.00 See photos 194-202 and the attached file "070001 Elem 8371 Defect Table.pdf" for further details. 1120 Efflorescence/Rust Staining 3 07/24/2019 11.00 each 0.00 6.00 5.00 0.00 See photos 194-202 and the attached file "070001 Elem 8371 Defect Table.pdf" for further details. Cracking (RC and Other) 1130 07/24/2019 111.00 each 56.00 55.00 0.00 See photos 194-202 and the attached file "070001 Elem 8371 Defect Table.pdf" for further details. ELEM QTY QTY QTY OTY ELEMENT NAME ENV INSP. DATE QUANTITY UNITS NBR CS 1 CS 2 CS 3 CS<sub>4</sub> 07/24/2019 700.00 8398 Curb/sidewalks - Con 1 ft 0.00 700.00 0.00 0.00 There are concrete safety walks and granite curbs along both sides of the Gano Street off-ramp. The safetywalks exhibit typical heavy accumulation of dirt and debris up to 12" deep with vegetation growth (Photo 82). 1080 Delamination/Spall/Patched Area 1 07/24/2019 698.00 ft 0.00 698.00 0.00 0.00 The safety walks exhibit scattered hairline cracks and general scaling 1/2" to 1" deep (Photo 83). The curbs exhibit typical rust staining and minor chipping throughout. In Span #3R near Pier #3R the south curb has a 5" wide x 2-1/2" long x 2" deep chip. The approach curbs are shifted up to 3" laterally with typical gaps up to 1" between curb sections (Photos 72-73). 1120 Efflorescence/Rust Staining 07/24/2019 1 1.00 ft 0.00 1.00 0.00 0.00 See 1080 Delamination/Spall/Patched Area notes. 1130 Cracking (RC and Other) 07/24/2019 1.00 0.00 1.00 0.00 0.00 ft See 1080 Delamination/Spall/Patched Area notes.

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#### 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**

#### 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** 

Bridge Inspection Report

Equipment         Aerial Lift       Ø         Boat       Ø         Underbridgeinspvel       Scaffolding         Scaffolding       Ø         BoesemansChair       Ø         Waders       Ø         Rail Mount Elliot       Ø         Crash Truck       Ø         Air Monitor       Ø         Bucket Truck       Ø         Rigging       Ø	Poison Ivy       □         Heavy Vegetation       □         Hurricane Evac Route ?       □         Cones       Yes         Traffic Setup Req       Yes         Police Req       Yes         Night Insp Req       No         Signs       Yes         Site Access Notes       No	Speed Limit Prep Time Crew Slize Varies Under Insp Vehicle Time Traffic Control Time 4 Mile Post Crew Days 20 Time Report Time Bucket Truck Time							
Floats	Access SP #10-14 via CAR Yacht Club dock on Pier Rd locked hatches at W. Abut. &7 via hatches on the top o is locked. Obtain all keys fro	Access SP #10-14 via CARDI construction yard. Launch boat from E. Prov. Yacht Club dock on Pier Rd. Access Gano St Ramp box girder interiors via locked hatches at W. Abut. #1R with ladder. Access catwalks inside Pier #6 &7 via hatches on the top of the north overhang. The elect. room in E. Abut. is locked. Obtain all keys from David Cluley(RIDOT).							
Avg Curb Reveal North/East Avg Curb Reveal South/Wes 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	TelephoneISewerICableIOilIFire AlarmIOH Lines PresentIWaterIGasIElectricIFiber OpticI							

## Bridge Inspection Report

## Structure Inventory and Appraisal Sheet (English Units)

Work Candidaties

Assigned tio Agency

			Datie	
Stiatius	Prioritiy	Action	Proposed	Noties
Unknown	High	Bridge-Rehab	07/28/2015	Bridge rehab projecti in progress
				<ul> <li>[Baker – revised per 2018 Special Inspection]</li> <li>Repair quantitiy is based on tiotial deffecti quantitiy ffor each elementi</li> <li>Superstiructiure <ul> <li>Totial Reinfforced Concretie Closed Box Girde(Elementi105)</li> <li>repair quantitiy(844 LF)</li> <li>Totial Stieel Open Girde(Elementi107) repair quantitiy(643 LF)</li> <li>Totial Prestiressed Concretie Open Girde(Elementi109) repair quantitiy(2,810 LF)</li> <li>Totial Reinfforced Concretie Open Girde(Elementi10)</li> <li>repair quantitiy(1,926 LF)</li> <li>Totial Elastiomeric Bearing(Elementi310) repair quantitiy(265</li> </ul> </li> <li>EA)</li> </ul>
				<ul> <li>Totial Niovable Bearing(Elementi311) repair quantity(11 EA)</li> <li>Totial Fixed Bearing(Elementi313) repair quantitiy(11 EA)</li> <li>Totial Stieel Diaphragm (Elementi8370) repair quantitiy(57 EA)</li> </ul>
				• Totial Concretie Diaphragm≰Elementi8371) repair quantitiy(18 6 EA)
				<ul> <li>Substiructiure</li> <li>Totial Reinfforced Concretie Colum(Elementi205) repair quantitiy(52 EA)</li> <li>Totial Reinfforced Concretie Pier Wa(Elementi210) repair quantitiy(485 LF)</li> <li>Totial Reinfforced Concretie Abutime (Elementi215) repair quantitiy(152 LF)</li> <li>Totial Reinfforced Concretie Pier Ca(Elementi234) repair quantitiy(335 LF)</li> <li>Totial Reinfforced Concretie Retiurn Wa(Elementi8213) repair quantitiy(175 LF)</li> <li>Totial Reinfforced Concretie Retiurn Wa(Elementi8213) repair quantitiy(175 LF)</li> <li>Totial Backwall(Elementi8218) repair quantitiy(126 LF)</li> <li>Totial Riprap(8366) repair quantitiy(60 SF)</li> <li>Totial Slope Blocks(8367) repair quantitiy(105 SF)</li> </ul>
Assigned tio N	Aunicipalitiy			
			Datie	

Stiatius	Prioritiy	Action	Datie Proposed	Noties	
Under Review	High		07/24/2019	Generatied by user" on 10/26/2019 There are several locations off ponding watier up tim8" deep	
				inside tihe box girders RIDOT was infformed abouti tihis issue on /11/19.	