

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B05312018-8</b>	
<b>Date:</b> 3/2/2018	<b>Inspected By:</b> RH	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-071 - NEW HARBOUR BRIDGE		
<b>Route:</b>	80	<b>Overall Length:</b>	25.4 m
<b>Year Built:</b>	1968	<b>Est: No</b>	<b>Overall Width:</b> 11.4 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 8.6 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	1.6 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2.7 m
<b>Type of Structure:</b>	02 - Double Tee	<b>Max Depth of N.W.L.:</b>	1.7 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
<b>Alignment Vertical:</b>	01 - Good	1	15.9
<b>Alignment Horizontal:</b>	01 - Good	2	0
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F1 - Fair
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	- Original footings poured directly onto bedrock. - Severe erosion and possible scour continues under ends of north and south footings. - No visible signs of bearings (assumed conditions). - Medium vert./horiz. cracks in faces of abutments and wingwalls.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	F1 - Fair
<b>Comments:</b>	- Medium/wide vert./horiz. cracks in 4 exterior creep blocks. - Narrow horiz./vert. cracks and light delamin. to double tees. - Some spalling occurring on center double tee with some medium cracks. - No visible signs of expansion joints. No chaulking in gaps in curbs/sidewalks.		
<b>DECK</b>			

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	P1 - Poor
<b>Hand Rail:</b>	P1 - Poor	<b>Roadway Condition:</b>	P1 - Poor
<b>Approach Rail:</b>	P - Poor		
<b>Comments:</b>	- Handrail P1 (SW end), F1 (remainder). - Approach rail P (SE approach rail), F1 (remainder). - Severe concrete delamin/spalling/disintegration continues to NE, SE and SW exterior curb fascia. - Narrow trans. cracks, medium delamin and medium rusting to reinf. on exterior cantilevered deck soffits. - Section of SE approach rail missing exposing end of guiderail. - Narrow trans. cracks in asphalt surface at expansion joint locations with some small patched potholes on deck surface. - Concrete handrail missing and posts cracked off at SW end of structure. - Medium/wide horiz. cracks with medium corrosion to exposed reinf. on concrete handrail.		

**HYDROLOGY**

<b>Water Velocity:</b>	tidal m/s	<b>Ice Problem:</b>	P - Possible Problem
<b>Water Depth:</b>	tidal m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Rip-rap on SE corner has begun to migrate into channel.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2019	<b>Replacement Year:</b>	2025
<b>Antic. Rehab. Cost:</b>	\$150	<b>Replacement Cost:</b>	\$1100
<b>Recommendations:</b>	- Repair erosion/scour at base of footings. - Repair concrete handrails and guiderail. - Repair exterior curb fascia and other concrete defects. - Install missing hazard markers and chaulk expansion gaps in curbs.		

**OBSERVATIONS**

<b>Overall Condition:</b>	P - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- P (SE approach rail). - P1 (Exterior curb fascia and SW handrail). - F1 (Remainder). - Remaining observations unchanged from previous inspection in 2016.		

**LEGEND:**

<b>Condition Definitions:</b>			<b>Problem Definitions:</b>	<b>Category Definitions:</b>
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

**PHOTO GUIDELINES:**

**Inspection Photos:**

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

**INSPECTION PHOTOS**