

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08202021-7	
Date: 8/12/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-040 - HARBOUR GRACE BRIDGE, RIVERHEAD		
Route:	70	Overall Length:	25 m
Year Built:	1968	Est: No	Overall Width: 10.9 m
Year Last Rehab.:		Est: No	Roadway Width: 8.5 m
Region:	AVALON PENINSULA	Sidewalk Width:	1.5 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.8 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	0.9 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	Span No.:	Length
Alignment Vertical:	01 - Good	1	14.9
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	U - Uninspectable
		Bearing Seat:	F2 - Fair
Comments:	- All exterior creep block and bearing area repairs from 2016 rehab have medium cracking with efflorescence, no evidence of spalls. - Interior bearing seats, creep blocks in good condition. - North abutment has evidence of scour on the northwest corner with medium-severe deterioration to waterline concrete (P3), two wide-vertical cracks at the mid-way point, medium horizontal cracks at the northwest corner, a spall starting at the northeast corner at waterline level and some possible AAR on the northeast riverside face. - South abutment is out of water, and has a couple medium-wide vertical cracks. - P3 SW corner, F1 remainder.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	U - Uninspectable
Comments:	- Expansion joints chaulked through curbs. - Double tees and underside of deck are in good condition with some minor areas of spall and rust staining. - Deck drains extended below structure.		

DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F2 - Fair		
Comments:	- Handrails, end blocks, approach/exit rails, and hazard markers, in good condition. - Curbs have small spalls and medium cracks in all directions. - Asphalt has cracking starting over the expansion joints. - Both fascia's are weathered and have evidence of a cold joint.		
HYDROLOGY			
Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Tidal m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Rip-rap at 4 corners of structure still has good placement.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2030	Replacement Year:	2040
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$2000000
Recommendations:	- Repair all concrete defects especially the northwest corner of the north abutment at the waterline. - Rehabbed in 2016.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- Hazards: A lot of traffic, steep slopes around structure, and deep water on west side.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		Category Definitions:
			Maint. - Maintenance.
			Eng. - Engineering.
			Office - Bridge Office.
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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			