

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09132021-7	
Date: 2/17/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-166 - HARCOT POND BRIDGE		
Route:		Overall Length:	22.1 m
Year Built:	1986	Est: No	Overall Width: 10.1 m
Year Last Rehab.:		Est: No	Roadway Width: 8.1 m
Region:	AVALON PENINSULA	Sidewalk Width:	1 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.2 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	14.1
Alignment Horizontal:	02 - Adequate	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Assumed condition of reinforced concrete frame leg footings. - Some light erosion to abutments near water level. - Narrow horiz./vert. cracks to abutments and wingwall faces. - Medium/wide cracking to abutment faces with medium efflor. deposits.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Medium transvers cracking throughout deck soffit. - Large cracks at deck curbs and abutment interfaces on all 4 corners		
DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair

Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	P - Poor		
Comments:	- Condition, P3 (surface), F1 (remainder). - Approach rail, P (SW rail), F1 (remainder.) - No hazard markers. - Medium trans. cracks and honeycombing in deck soffit. - Wide horiz./angular cracks with light/medium efflor. deposits in deck fascia. - Narrow cracks in deck soffit at deck drain downspouts. Light spalling on exposed deck surface. - Numerous wide vert./horiz./trans. cracks in deck curbs. - Numerous medium/wide map cracks in deck surface. - SW approach rail damaged and unattached from end block. Remaining rail has dents and scrapes with deteriorating posts. - Potholes in approach asphalt with a lot of water buildup on south side of deck at curbs. - Scrapes, dents, and end caps missing in alum. handrail.		

HYDROLOGY

Water Velocity:	0.4 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.4 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:	- Severe asphalt/ shoulder/ slope erosion at NW, SE, and SW ends of structure. - Rip-rap at 4 corners of structure in fair condition.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2036
Antic. Rehab. Cost:	\$200	Replacement Cost:	\$900
Recommendations:	- Overlay deck and approach slabs. - Resurface curbs, install new guiderail c/w regulation hazard markers. - Fix asphalt/ slope/ shoulder erosion on bad corners of structure.		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	- P (SW approach rail, asphalt/ slope/ shoulder erosion). - P3 (Exposed concrete deck surface). - F1 (remainder).		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
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