

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09132021-9	
Date: 2/18/2020	Inspected By: Gillis M	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-276 - NORTH HARBOUR RIVER BRIDGE, RT.91		
Route:	91	Overall Length:	19.65 m
Year Built:	2001	Est: No	Overall Width: 10.1 m
Year Last Rehab.:		Est: No	Roadway Width: 8.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.65 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.6 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.5 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	1	10.9
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Light erosion to east abutment footing, - Light erosion to bottom interior faces of abutments. - Light honeycombing in face of east abutment and NE wingwall. - Narrow hairline cracking in wingwalls. - Light bulging to bearing pads.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	- No gap chalking in NW, SE and SW gaps in curb fascias and ext. abut. faces - NW end block has been struck causing delamin. and last spall at back/bottom of end block and curb fascia, light corrosion to exposed reinf. in this area - NW end block has been struck causing damage.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	- Narrow trans./vert. cracks in curb fascia and deck fascia. - Light scrapes, dents in guiderail. - Light scrapes, dents, missing splices on alum. handrail. - Light potholes in gravel approaches.		

HYDROLOGY

Water Velocity:	0.1 m/s	Ice Problem:	K - Known Problem
Water Depth:	0.3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Moderate shoulder/slope erosion at NE/NW ends of structure. - Light erosion on south ends.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2038	Replacement Year:	2076
Antic. Rehab. Cost:	\$150	Replacement Cost:	\$500
Recommendations:	- Repair damaged NW end block and curb - Caulk exp. gaps in curb?abut. (NW,SW,SE) (maint.) - Repair slope erosion problems at 4 corners (maint.) - Install hyd. rip-rap at 4 corners of struct. (maint.)		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Unchanged from 2018 inspection		

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 sees 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