


	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07022021-1	
Date: 1/29/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-074 - TORS COVE POND SPILLWAY CULVERT		
Route:		Overall Length:	21.6 m
Year Built:	1966	Est: Yes	Overall Width: 11.2 m
Year Last Rehab.:	2000	Est: No	Roadway Width: 7.1 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 3.3 m
Type of Structure:	04 - Rigid Frame		Max Depth of N.W.L.: 0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	06 - None		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	02 - Asphalt		1 4.4 4 0
Alignment Vertical:	01 - Good		2 0 5 0
Alignment Horizontal:	01 - Good		3 0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
<div style="display: flex; justify-content: space-around;">    </div>			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Original frame legs extended 5.0m upstream and 3.0m downstream. Extensions are 0.75m higher than original structure. Medium scour continues under original frame leg footings. Medium erosion along faces of upstream extension footings.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	No visible signs of expansion joints. Numerous wide horizontal/vertical cracks in faces of original frame legs. Narrow horizontal/vertical cracks in faces of frame leg extensions. Medium delamination/spalling to NW corner of North frame leg.		
DECK			

Condition:	P1 - Poor	Curbs:	I - Inapplicable
Hand Rail:	I - Inapplicable	Roadway Condition:	I - Inapplicable
Approach Rail:	F1 - Fair		
Comments:	F2 -extensions, P - Original. Severe delamination, disintegration spalling with severe rusting to exposed reinforcement beam and rebar on original deck edges and fascia. Severe disintegration, spalling with medium rusting to exposed reinforcement to upstream deck fascia on extensions. Narrow wide longitudinal/transverse cracks in original deck soffit. Narrow cracks in deck soffits on extensions. Numerous cracks, dips, small potholes in Rte 10 road surface.		

HYDROLOGY

Water Velocity:	0.0 m/s	Ice Problem:	N - No Problem
Water Depth:	0.0 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:	Some medium shoulder erosion		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2025
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$600000
Recommendations:	Repair concrete defects. Repair scour problem. Repair guiderail and resurface Route 10. Bridge office should re-inspect original rigid frame		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes
Additional Observations:	P1 - Original rigid frame. F1 - Extensions. Overflow arch 1500Wx1200H through south wingwalls.		

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