Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B04282021-5					
Date: 4/20/2021	Inspected By: Butler			Category: Eng Engineering				
BRIDGE INFORMATION								
Site:	TCH-111 - TCH-RT.320	UNDERPASS GAMBO IN	ITERCH.					
Route:	1			Overall Leng	gth:	61 <b>m</b>		
Year Built:	1989	Est: No		Overall Width: 12 m		12 <b>m</b>		
Year Last Rehab.:		Est: No		Roadway Width:10 mSidewalk Width:0 m				
Region:	CENTRAL EAST							
Jurisdiction:	Provincial			Clearance to R.D. or N.W.L.: 5.9 m				
Type of Structure:	05 - Pre-stressed Concre	05 - Pre-stressed Concrete Slab Max Depth of N.W.L.:		f N.W.L.:	0 <b>m</b>			
Purpose of Structure:	01 - Highway Grade Sep	-						
Type of Handrail:	01 - Aluminum Rail			Span No.:	Length	Span No.:	<u>Length</u>	
Roadway Surface:	02 - Asphalt			1	26	4	0	
Alignment Vertical:	01 - Good			2	26	5	0	
Alignment Horizontal:	01 - Good			3	0	6	0	
Restrictions:	Yes							
Describe Restrictions:	posted clearance 5.9m							
SUBSTRUCTURE								
Condition:	F2 - Fair Be		ngs:	U - Uninspectable				
		Beari	ng Seat:	U - U	ninspectab	le		
Comments:	Concrete abutments, wing walls and 3 column centre pier. Sixteen pot bearings at abutments and three on centre piers not inspected. Light cracking and scaling on wing walls. Pier columns have light cracking. Centre pier column has delamination and exposed rebar due to lack of cover. Abutment 1 and 2 has cracking throughout. Erosion evident under sloped concrete fill protection and has become separated by approx. 100mm from abutment 2. Girder 1 on west side, abutment 2 has excessive cracking of bearing seat. Center piers 1 and 2 from east have cracking and wear from road sand and salt; west side only. Center Pier is worse and has exposed rebar. The guiderail protecting the piers is in poor condition and does not extend far enough west.							
SUPERSTRUCTURE								
Condition:	F2 - Fair	Expar	sion Joints:	P3 - F	Poor			
Comments:	Expansion joints leaking, some damage to dams and armour. Dymeric sealer at curb locations poor condition.							

	Pavement and concrete at expansion joints is deteriorating. Abutment 2: • evidence of roadway settlement between cub and pavement. • rail attachment to end block requires repair.						
DECK							
Condition:	F2 - Fair	Curbs:	F2 - Fair				
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair				
Approach Rail:	P1 - Poor						
Comments:	Asphalt wearing surface. Aluminum 4 rail system with concrete end blocks. Aluminum rail has impact damage from snow plows with 2 broken posts and others damaged. End blocks have light scaling and cracking. Curbs have light scaling and cracking. No end shoes at end blocks, guide rail not structural. Guiderail attached to Abutment 1 right has a broken post. The deck gutter has approximately 20mm of sand in it. Abutment 2 approach slab has pavement potholing and cracking. Left side hand rail and several posts damaged. The curb at all expansion joints are severely cracked.						
HYDROLOGY							
Water Velocity:	n/a <b>m/s</b>	Ice Problem:	NA - Not Applicable				
Water Depth:	n/a <b>m</b>	Scour Problem:	NA - Not Applicable				
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable				
Comments:							
REPLACEMENT/REHAB	ILITATION						
Next Rehab. Date:	Replacement Year:						
Antic. Rehab. Cost:	\$15000	Replacement Cost:	\$0				
Recommendations:	Replace expansion joints. Replace guide rail with structural guide rail and attach end shoes. Clean the gutters. Replace damaged hand rail and posts. Replace and lengthen guiderail protection piers.						
OBSERVATIONS							
Overall Condition:	F2 - Fair	Requires Further Inspection:	No				
Additional Observations:							
LEGEND: Condition Definitions: 1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guidelin • Any term winch inspector t • All items noted above as b • Any evidence of known tce	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. esis should be documented by photograph eing P3 P1 P or C scour, debris, waterway problems	Public). N - No Pr P - Possi K - Know	Definitions: Category Definitions:   roblem. Mainf Maintenance.   ble Problem. Eng Engineering.   n Problem. Office - Bridge Office.   Applicable. Office - Bridge Office.				
INSPECTION PHOTOS							

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.