



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT  
B10122021-3**

Date: 10/5/2021 Inspected By: Mike Button Category: Office - Bridge Office

**BRIDGE INFORMATION**

Site:	TCH-026 - E.S. SPENCER BRIDGE				
Route:	1	Overall Length:	93 m		
Year Built:	2013	Est: No	Overall Width:	11.3 m	
Year Last Rehab.:		Est: No	Roadway Width:	10.7 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m		
Type of Structure:	13 - Other	Max Depth of N.W.L.:	4.5 m		
Purpose of Structure:	03 - Over Navigable Waters	Spans:			
Type of Handrail:	05 - Concrete Barrier	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	75	4	0
Alignment Vertical:	01 - Good	2	0	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	No				

**BRIDGE PHOTOS**



**SUBSTRUCTURE**

Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair

Comments: - All wingwalls have light to mild hairline cracking, F2. - Both abutment faces in good condition, F2. - Bearings too high for proper inspection but looks corrosion free from below, F2 assumed.

<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	- Both box girders and central bracing in good condition. - Bottom of deck and soffits in good condition. - Expansion joint not functional and is not needed.		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	P3 - Poor
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Jersey barrier rails have mild-hairline cracking throughout. - Approach/exit rails in good condition, connected to jersey barriers and complete with hazards markers. - Asphalt in good condition over structure. West approach has a settlement depression across the structure. Settlement of fill/asphalt around east expansion joint creating a big bump for transport vehicles, P3.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0.3 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Deep m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- None.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2025	<b>Replacement Year:</b>	2070
<b>Antic. Rehab. Cost:</b>	\$100000	<b>Replacement Cost:</b>	\$3500000
<b>Recommendations:</b>	- Remove east expansion joint as it is not required. Fix depression on west approach.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Structure in good condition. Fix approaches within 3-5 years. - Hazards traffic, steep slopes and sharp rocks. - Park on either the northeast or southwest gravel roads by structure.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
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.		
<b>Category Definitions:</b>			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			