

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B11172021-3	
Date: 10/19/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-245 - OLD SHOP POND BRIDGE		
Route:		Overall Length:	11.5 m
Year Built:	1985	Est: Yes	Overall Width: 10.6 m
Year Last Rehab.:		Est: No	Roadway Width: 6 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0.8 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.9 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	6.6
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	P3 - Poor
Comments:	- Southwest wingwall transition to the fascia has a large section of concrete cracked off the main wingwall with exposed reinforcement but still in place, F1. - Southeast wingwall has mild-medium map cracking throughout with efflorescence. About two-thirds of the way up the wingwall, there is a wide horizontal crack extending across the wall. Both downstream wingwall to fascia connections have medium wide cracks with efflorescence. The northwest wingwall has wide horizontal cracks throughout. - The upstream arch support has mild to medium concrete deterioration. The joint 300mm below the deck soffit is opening up with mild efflorescence leakage. - The west and east frame leg to deck transition joint is leaking with visible water coming down the frame leg face in various locations. There is also some locations with mild cracking with efflorescence. - Frame legs have mild erosion around the waterline but otherwise in fair condition, F1 - Looking under the structure from both the upstream and downstream sides, both frame leg extensions have different slopes or settlement near the extension joints. - Both frame leg extension construction joints opening up under the structure. *Inspection limited as there is no access under structure due to water depth*		

SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- South soffit has mild cracking with efflorescence. Bottom of deck, looking from outside the structure on both the upstream and downstream sides, looks to be in fair condition. No visible efflorescence on the bottom of the deck. *Inspection limited as there is no access under structure due to water depth*		
DECK			
Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	I - Inapplicable		
Comments:	- Asphalt has a medium/large pot hole on the northeast corner, area also appears to be settled, P3. Otherwise asphalt is in fair condition. - No end blocks, hazard markers, energy dampening posts or approach/exit rail. - Structure handrail is normal guiderail and is in fair condition, F1. Original concrete handrail is destroyed. - Earth fill atop rigid frame, moderate vegetation growth on the shoulders. *Inspection limited as there is no access under structure due to water depth*		
HYDROLOGY			
Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Tidal m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Rip rap on the southeast wingwall has migrated into the channel and needs replacement. Possible scour as bridge is in a tidal zone.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2028	Replacement Year:	2035
Antic. Rehab. Cost:	\$50,000	Replacement Cost:	\$1,000,000
Recommendations:	- Repair concrete defects on the wingwalls and fascias. Install approach rails and hazard markers.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Inspection limited as there is no access under structure due to water depth. Need chest waders for proper inspection of this bridge. Hazards, mild traffic and working around water. P3 leakage/efflorescence at the frame leg to bottom of deck transition and sections of the fascia and wingwalls. F1 remainder.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
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.		
		Category Definitions:	
		Maint. - Maintenance.	
		Eng. - Engineering.	
		Office - Bridge Office.	
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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			