

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08202021-5	
Date: 8/12/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-077 - BANNERMAN BROOK BRIDGE, HARBOUR GRACE		
Route:	70	Overall Length:	16.8 m
Year Built:	1969	Est: No	Overall Width: 10.6 m
Year Last Rehab.:		Est: No	Roadway Width: 8.5 m
Region:	AVALON PENINSULA	Sidewalk Width:	1.5 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.2 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	0.8 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	8.1
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	U - Uninspectable
		Bearing Seat:	F2 - Fair
Comments:	- South abutment: med-severe deterioration to concrete surface at and below waterline level. North abutment covered in graffiti, mild erosion to riverside face. - Wingwalls have mild horizontal/vertical cracks throughout. - Double tee bearing seats in good condition on both abutments.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	U - Uninspectable
Comments:	- Double tees have small spalls to stirrups across all double tees spaced randomly throughout (low cover) (P3). - Decommissioned deck drains have circumferential spalls and exposed rebar with medium corrosion (P3). Locations on double tees without spalls (90%) and remainder of the underside of deck F1. - New deck drains extended below structure.		
DECK			

Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F2 - Fair		
Comments:	- Handrails, end blocks, approach/exit rails, and hazard markers, in good condition. - Curbs have small spalls and medium cracks in all directions. - Asphalt condition ok. - Both fascia's are weathered and have evidence of a cold joint.		

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:	- Northwest corner remains slightly unprotected against flow. - Scour starting on southwest corner.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2026	Replacement Year:	2035
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$1200000
Recommendations:	- Repair spalls to double tees, old deck drains and other concrete defects. - Structure rehabbed in 2016.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Old structure just upstream and remains closed. - Hazards: A lot of traffic, steep slopes around structure, and no safe access under bridge. - Double tee spall areas and spalls around deck drains P3. F1 remainder.		

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