

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07202021-1	
Date: 7/8/2021	Inspected By: McCaw J	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	4-043 - MAIN RIVER BRIDGE (SOPS ARM)		
Route:	420	Overall Length:	97.9 m
Year Built:	1964	Est: No	Overall Width: 11.5 m
Year Last Rehab.:		Est: No	Roadway Width: 7.4 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5.1 m
Type of Structure:	10 - Callender-Hamilton or Other Stress Truss Bridge		Max Depth of N.W.L.: 0 m
Purpose of Structure:	03 - Over Navigable Waters		Spans:
Type of Handrail:	06 - None	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	45.8
Alignment Vertical:	01 - Good	2	45.8
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Spalling and efflor. deposits on abutments. Sand accumulation on bearing seats. Some steel bars protruding from North abutment		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	F2 - Fair
Comments:	P3 - Steel members below deck - F2 Steel members above deck. Rust throughout the structure but worst under deck where laminar rusting is starting on some members. Some missing bolts at downstream south corner bearing. Plow damage to steel at same structure. One overhead diagonal member damaged at 5th lateral cross brace from North end of structure.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Some plow damage to timber posts		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.5 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2025	Replacement Year:	2060
Antic. Rehab. Cost:	\$400000	Replacement Cost:	\$8000000
Recommendations:	Blast clean and paint rusted areas. Replace rusted components/damaged members where applicable. Replace corroded and missing bolts. Complete minor concrete repairs on abutment.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	Corrective action to rust in near future will extend the life of the structure significantly. Parking ok. Hazards: Traffic, Slipping, Water		

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