
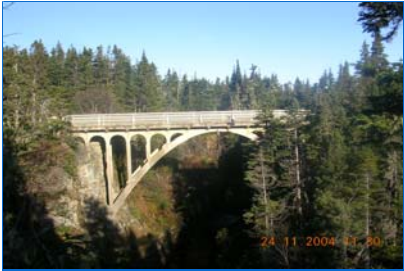
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Works	BRIDGE INSPECTION REPORT B05312018-21 Printed: Tuesday, October 2, 2018	
Date: 2/13/2018	Inspected By: RH	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-162 - CATARACTS RIVER BRIDGE (ELLIS MEMRL)		
Route:	91	Overall Length:	31.5 m
Year Built:	1926	Est: No	Overall Width: 5.4 m
Year Last Rehab.:	1980	Est: No	Roadway Width: 4.7 m
Region:	AVALON PENINSULA		Sidewalk Width: 0.35 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 15.5 m
Type of Structure:	13 - Other		Max Depth of N.W.L.: 0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	01 - Concrete		1 27.3 4 0
Alignment Vertical:	02 - Adequate		2 0 5 0
Alignment Horizontal:	01 - Good		3 0 6 0
Restrictions:	Yes		
Describe Restrictions:	1lane traffic and weight restriction of 15 tonnes.		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair (Inspection within 1 Year)	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- No abutment footings: original abutments poured on bedrock. - Medium vert./horiz. cracks in rib arch footings. - Wide crack at base of footing on SW end column. - Medium to wide vert./horiz. cracks with efflor. deposits in abutments and wingwalls. - Very wide horiz. cracks in curved wingwall faces @SE corner.		
SUPERSTRUCTURE			
Condition:	F1 - Fair (Inspection within 1 Year)	Expansion Joints:	F1 - Fair (Inspection within 1 Year)
Comments:	- Medium horiz./vert. cracks in rib-arch, hangers, end columns and sway bracing. - Light delamin./spalling with medium corrosion to exposed reinf. in some trans. hangers and end column gaps. - Expansion joints filled with mud and gravel.		
DECK			

Condition:	F1 - Fair (Inspection within 1 Year)	Curbs:	F1 - Fair (Inspection within 1 Year)
Hand Rail:	F1 - Fair (Inspection within 1 Year)	Roadway Condition:	F1 - Fair (Inspection within 1 Year)
Approach Rail:	P1 - Poor (Repair within 1 Year)		
Comments:	- Severe abrasion/wear to exposed deck surface. - Narrow medium vertical cracks in curbs and fascia. - No approach or exit rails on 3 corners of structure. - Jersey barriers placed on bridge corners. - Numerous scrapes, dents and damage to alum. handrails.		

HYDROLOGY

Water Velocity:	0.6 (varies) m/s	Ice Problem:	N - No Problem
Water Depth:	1.0 (varies) m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Medium to severe slope erosion on 4 corners of structure.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2019	Replacement Year:	2030
Antic. Rehab. Cost:	\$75.00	Replacement Cost:	\$700.00
Recommendations:	- Clean out expansion joints and deck drains. - Fix alum. rail. - Install approach and exit rail c/w regulation hazard markers.		

OBSERVATIONS

Overall Condition:	F1 - Fair (Inspection within 1 Year)	Requires Further Inspection:	No
Additional Observations:	- Unchanged from previous inspection in 2015.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair (Inspection within 2 Years).	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair (Inspection within 1 Year).	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor (Repair within 3 Years).	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor (Repair within 1 Year).		NA - Not Applicable.	
G - Good (Inspection within 2 Years).	P - Poor (Immediate Repair).			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- 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