16.4 m

9.6 **m**

7.3 m

1.5 m

1.9 m

1.4 m



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B09102021-11

Overall Length:

Overall Width:

Roadway Width:

Sidewalk Width:

N.W.L.:

Spans:

Clearance to R.D. or

Max Depth of N.W.L.:

Date: 8/26/2021 Inspected By: Mike Button Category: Office - Bridge Office

BRIDGE INFORMATION

Site: 1-082 - RIVERHEAD BRIDGE, ST. MARY'S

 Route:
 1970
 Est: No

Year Last Rehab.: Est: No

Region: AVALON PENINSULA

Jurisdiction: Provincial

Type of Structure: 02 - Double Tee

Purpose of Structure: 04 - Over Non-Navigable Waters

02 - Concrete Rail Type of Handrail: Span No.: Length Span No.: Length 01 - Concrete Roadway Surface: 1 10.4 4 01 - Good 2 0 5 0 Alignment Vertical: 3 0 6 0 01 - Good Alignment Horizontal:

Restrictions: No

BRIDGE PHOTOS





SUBSTRUCTURE

Condition: P3 - Poor **Bearings:** U - Uninspectable

Bearing Seat: P3 - Poor

Comments: - Southeast wingwall/curb area has heavy erosion causing undermining. Southwest bearing area has a medium

sized spall undermining the exterior creep block. Remaining exterior bearing areas have medium cracking with efflorescence, P3. *Interior bearing seat area looks intact from the shoreline, F1.* - Water too deep for a detailed abutment face inspection but from a distance, east abutment has minor rust staining on the surface. Mild erosion to abutment/footing construction joint with possible scour below the surface with medium erosion to concrete on the southeast corner. West abutment same comments but has med-severe erosion to northwest corner concrete

due to lack of rip rap, P3.

SUPERSTRUCTURE

Condition: F1 - Fair Expansion Joints: P3 - Poor

Comments: - All double tee pre-cast panels have rebar to a mild-medium extent, rebar medium-severe corrosion. No

evidence of leakage between pre-cast sections (no efflorescence running down double tees. Underdeck

	inspection not possible with current equiprexposed reinforcement all around with a surunning down face of both abutments indicexpansion joints, P3.	mall spall, monitor of future	e inspections, P3 Light efflorescence
DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	P1 - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	I - Inapplicable		
Comments:	- No approach/exit rails, hazard markers on end blocks No asphalt, deck concrete has potholes in some locations. Most of deck not visible due to gravel overlay, P3 Handrails disintegrated in two sections on the north side, and in one section on the south side, only rebar left, P1. F1 elsewhere Curbs/fascia in fair condition, medium weathering with a possible cold joint on the north side. Mild cracking with efflorescence on the south side.		
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:	- Corner rip-rap washed away and what is remaining no longer provided effective protection.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	2030
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$800000
Recommendations:	- Replace gravels on southeast wingwall/curb and install drainage ditch Install new rip-rap Repair double tees - Repair areas around deck drains Repair potholes in deck Rehab scheduled for later this fall (2021).		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- P3 southeast wingwall erosion and bearing seat spalls/cracking. F1 remainder Clean deck of road gravels for proper inspection. Hazards, very light traffic, mild slopes and working around water.		
LEGEND: Condition Definitions: 1 * Good - [discontinued code]. 2 * Fair - [discontinued code]. 3 * Poor - [discontinued code]. 4 * "Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guideling any unem which inspection and the many unem which is the many unem wh	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P - Poor. P - Poor. P - Poor. nes below: eens snound be documented by photograph eing P3, P1, P1, or C ens scour, debris, waterway problems	Public). N - No P P - Poss K - Knov	n Definitions: Problem. Sible Problem. Waint Maintenance. Eng Engineering. War Problem. Office - Bridge Office. t Applicable.

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.

INSPECTION PHOTOS