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|  | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | BRIDGE INSPECTION REPORT B09142021-2 | |
| Date: 2/17/2020 | Inspected By: Hunt R | Category: Eng. - Engineering | |
| BRIDGE INFORMATION | | | |
| Site: | 1-036 - ROCKY RIVER BRIDGE, COLINET | | |
| Route: | 91 | Overall Length: | 55.7 m |
| Year Built: | 1990 | Est: No | Overall Width: 9.7 m |
| Year Last Rehab.: | | Est: No | Roadway Width: 8.7 m |
| Region: | AVALON PENINSULA | Sidewalk Width: | 0.5 m |
| Jurisdiction: | Provincial | Clearance to R.D. or N.W.L.: | 6.2 m |
| Type of Structure: | 01 - AASH to Girder | Max Depth of N.W.L.: | 1 m |
| Purpose of Structure: | 04 - Over Non-Navigable Waters | Spans: | |
| Type of Handrail: | 01 - Aluminum Rail | Span No.: | Length |
| Roadway Surface: | 02 - Asphalt | 1 | 31.8 |
| 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 | | | |
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| SUBSTRUCTURE | | | |
| Condition: | F2 - Fair | Bearings: | F2 - Fair |
| | | Bearing Seat: | F2 - Fair |
| Comments: | - Medium erosion to west footing and partially submerged east footing - Narrow vert. cracks in faces of both abutments - Narrow alligator cracks at bases of wing walls - Narrow vert. cracks with light efflor. deposits at tops of wingwalls under curbs - Light/Medium spalling to NE corner of north abutment - Bearing and bearing seats appear in good condition (access restricted due to height) | | |
| SUPERSTRUCTURE | | | |
| Condition: | F2 - Fair | Expansion Joints: | F2 - Fair |
| Comments: | - Narrow horiz. cracks in webs/flanges of both exterior girders - Small area of honeycombing in bott. flange in U/S girder #2 - Narrow longit cracks and medium abrasion to exp. joint damns - Possibly leakage in exp. joints - No chalking in exp. joint gaps in curb fascia. | | |
| DECK | | | |

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| Condition: | F2 - Fair | Curbs: | F2 - Fair |
| Hand Rail: | F2 - Fair | Roadway Condition: | F2 - Fair |
| Approach Rail: | P3 - Poor | | |
| Comments: | - Narrow vert. cracks with heavy efflor. deposits in expansion deck curbs and fascia. - Numerous potholes in asphalt next to expansion joints esp. on west approach. - Top section of SE end block missing. - Light scrapes and dents with rotting posts on approach/exit guiderail. - Alum. handrail in good condition with minor damage to rail/post at SE end. | | |

HYDROLOGY

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|------------------------|---|------------------------|----------------|
| Water Velocity: | 1.4 m/s | Ice Problem: | N - No Problem |
| Water Depth: | 1.2 m | Scour Problem: | N - No Problem |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem |
| Comments: | - Medium shoulder erosion on 4 corners of structure. - Assume gabion basket at toe of SE slope is still bulging (as in 2018 inspection), Gabions completely covered in snow at time of inspection | | |

REPLACEMENT/REHABILITATION

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|----------------------------|---|--------------------------|--------|
| Next Rehab. Date: | 2021 | Replacement Year: | 2040 |
| Antic. Rehab. Cost: | \$30 | Replacement Cost: | \$1700 |
| Recommendations: | - Resurface deck and approaches - Install new approach and exit rail where needed c/s regulation haz. markers - Chalk expansion joint gaps and clean out seals - Install rip-rap where required | | |

OBSERVATIONS

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|---------------------------------|--|-------------------------------------|----|
| Overall Condition: | F2 - Fair | Requires Further Inspection: | No |
| Additional Observations: | - Original structure located 20 m downstream from new structure - Salmon ladder and Tourist Chalet at West side downstream | | |

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

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