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|  | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | BRIDGE INSPECTION REPORT B04282021-7 | |
| Date: 4/20/2021 | Inspected By: Butler | Category: Eng. - Engineering | |
| BRIDGE INFORMATION | | | |
| Site: | TCH-100 - GLOVERTOWN UNDERPASS | | |
| Route: | 1 | Overall Length: | 61.5 m |
| Year Built: | 1980 | Est: No | Overall Width: 11.5 m |
| Year Last Rehab.: | 2020 | Est: No | Roadway Width: 10.5 m |
| Region: | CENTRAL EAST | Sidewalk Width: | 0 m |
| Jurisdiction: | Provincial | Clearance to R.D. or N.W.L.: | 4.6 m |
| Type of Structure: | 01 - AASH to Girder | Max Depth of N.W.L.: | 0 m |
| Purpose of Structure: | 01 - Highway Grade Separation | | Spans: |
| Type of Handrail: | 01 - Aluminum Rail | | <u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u> |
| Roadway Surface: | 02 - Asphalt | 1 | 27 4 0 |
| Alignment Vertical: | 01 - Good | 2 | 27 5 0 |
| Alignment Horizontal: | 01 - Good | 3 | 0 6 0 |
| Restrictions: | Yes | | |
| Describe Restrictions: | Posted clearance 4.5m westbound, 4.6m eastbound. | | |
| BRIDGE PHOTOS | | | |
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| SUBSTRUCTURE | | | |
| Condition: | F2 - Fair | Bearings: | U - Uninspectable |
| | | Bearing Seat: | U - Uninspectable |
| Comments: | Concrete abutments, wing walls and center pier Right side Abutment 1 – Right side has large (3-4mm) crack. Girder 1 – exposed steel on top with hairline cracks throughout. Light cracking of bearing seat. Girder 2 – Light cracking. Light cracking of bearing seat. Girder 3– Light cracking. Light cracking of bearing seat. Girder 4 – Spalling on bottom over driving lanes with exposed steel, and light cracking throughout. Light cracking of bearing seat. Girder 5 – Light cracking. Light cracking of bearing seat. Left side Girder 7 – Exposed steel and light cracking. Girder 8 – Concrete is spalling from this girder directly over the driving lanes. Exposed steel and light cracking. Girder 10– Exposed steel and light cracking. Girder 11 – Exposed steel and light cracking Diaphragm between Girders 7 and 8 has a lot of minor cracking Center pier is showing signs of cracking and concrete disintegration, where it is exposed to the weather/salt from the above roadway. | | |
| SUPERSTRUCTURE | | | |
| Condition: | F2 - Fair | Expansion Joints: | F2 - Fair |

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| Comments: Asphalt Plug expansion joint. | | | | | | |
| DECK | | | | | | |
| Condition: | F2 - Fair | | | | | |
| Hand Rail: | F2 - Fair | | | | | |
| Approach Rail: | F2 - Fair | | | | | |
| Comments: | | | | | | |
| HYDROLOGY | | | | | | |
| Water Velocity: | n/a m/s | | | | | |
| Water Depth: | n/a m | | | | | |
| Waterway: | 03 - Not Applicable | | | | | |
| Ice Problem: | NA - Not Applicable | | | | | |
| Scour Problem: | NA - Not Applicable | | | | | |
| Debris Problem: | NA - Not Applicable | | | | | |
| Comments: | | | | | | |
| REPLACEMENT/REHABILITATION | | | | | | |
| Next Rehab. Date: | | | | | | |
| Antic. Rehab. Cost: | \$0 | | | | | |
| Replacement Year: | | | | | | |
| Replacement Cost: | \$0 | | | | | |
| Recommendations: | | | | | | |
| OBSERVATIONS | | | | | | |
| Overall Condition: | F2 - Fair | | | | | |
| Requires Further Inspection: | No | | | | | |
| Additional Observations: | | | | | | |
| <p>LEGEND:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%; vertical-align: top;"> <p>Condition Definitions:</p> <p>1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good.</p> </td> <td style="width: 25%; vertical-align: top;"> <p>F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.</p> </td> <td style="width: 25%; vertical-align: top;"> <p>C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable.</p> </td> <td style="width: 25%; vertical-align: top;"> <p>Problem Definitions:</p> <p>N - No Problem. P - Possible Problem. K - Known Problem. NA - Not Applicable.</p> </td> <td style="width: 25%; vertical-align: top;"> <p>Category Definitions:</p> <p>Maint. - Maintenance. Eng. - Engineering. Office - Bridge Office.</p> </td> </tr> </table> <p>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</p> | | <p>Condition Definitions:</p> <p>1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good.</p> | <p>F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.</p> | <p>C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable.</p> | <p>Problem Definitions:</p> <p>N - No Problem. P - Possible Problem. K - Known Problem. NA - Not Applicable.</p> | <p>Category Definitions:</p> <p>Maint. - Maintenance. Eng. - Engineering. Office - Bridge Office.</p> |
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| INSPECTION PHOTOS | | | | | | |