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|  | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | BRIDGE INSPECTION REPORT B09142021-3 | |
| Date: 2/18/2020 | Inspected By: Hunt R | Category: Eng. - Engineering | |
| BRIDGE INFORMATION | | | |
| Site: | 1-097 - NORTH HARBOUR RIVER BRIDGE, RT.92 | | |
| Route: | 92 | Overall Length: | 33.4 m |
| Year Built: | 1978 | Est: Yes | Overall Width: 10.2 m |
| Year Last Rehab.: | | Est: No | Roadway Width: 9.2 m |
| Region: | AVALON PENINSULA | Sidewalk Width: | 0.5 m |
| Jurisdiction: | Provincial | Clearance to R.D. or N.W.L.: | 4.9 m |
| Type of Structure: | 01 - AASH to Girder | Max Depth of N.W.L.: | 0.5 m |
| Purpose of Structure: | 04 - Over Non-Navigable Waters | Spans: | |
| Type of Handrail: | 01 - Aluminum Rail | Span No.: | Length |
| Roadway Surface: | 01 - Concrete | 1 | 31.4 |
| 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: | - Assumed condition of buried/ submerged reinf. conc. abut. footings. - Medium erosion along bottoms of abutment faces. - Numerous medium horiz./vert. map cracking with light spalling and medium efflor. deposits in abutment faces and wings (A.A.R in wings)? - Assumed condition of bearings/ seats (inspection restricted due to height). | | |
| SUPERSTRUCTURE | | | |
| Condition: | F2 - Fair | Expansion Joints: | F1 - Fair |
| Comments: | - Medium angular cracks in girder ends. Some medium spalling to underside of girders with medium rusting to exposed reinforcement - Medium abrasion and narrow long. cracks in exp. joint dams. - Chalking in exp. joint gaps and curbs | | |
| DECK | | | |

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|-----------------------|--|---------------------------|------------------|
| Condition: | P1 - Poor | Curbs: | I - Inapplicable |
| Hand Rail: | F1 - Fair | Roadway Condition: | I - Inapplicable |
| Approach Rail: | G - Good | | |
| Comments: | - NW haz. marker missing - Numerous trans. cracks in cantilevered deck soffits (exterior). - Medium/severe spalling to deck/curb exterior fascia with medium rusting to exposed reinf. - Wide horizontal cracks in D/S deck fascias - Medium abrasion and narrow long./trans. cracks in exposed deck. - Narrow trans. cracks in deck soffit. - Wide trans. cracks in asphalt at exp. joint dams. - Light scrapes and dents with all end caps missing on alum. handrails. | | |

HYDROLOGY

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|------------------------|--|------------------------|----------------|
| Water Velocity: | 0.3 m/s | Ice Problem: | N - No Problem |
| Water Depth: | 0.7 m | Scour Problem: | N - No Problem |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem |
| Comments: | - Velocity assumed (river frozen) - Some erosion under SE rock embedded gutter | | |

REPLACEMENT/REHABILITATION

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|----------------------------|---|--------------------------|--------|
| Next Rehab. Date: | 2023 | Replacement Year: | 2030 |
| Antic. Rehab. Cost: | \$30 | Replacement Cost: | \$2700 |
| Recommendations: | - Clean out exp. joint seals and install missing NW hazard marker. - Repair all concrete defects - Repair erosion under SE rock embedded gutter | | |

OBSERVATIONS

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|---------------------------------|---|-------------------------------------|----|
| Overall Condition: | P1 - Poor | Requires Further Inspection: | No |
| Additional Observations: | P1 - downstream deck curb fascia's F2 - Remaining | | |

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 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