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|  | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | BRIDGE INSPECTION REPORT B09192016-7 | |
| Date: 3/2/2016 | Inspected By: Chris Lyver | Category: Eng. - Engineering | |
| BRIDGE INFORMATION | | | |
| Site: | 1-313 - WARD'S RIDGE ROAD BRIDGE | | |
| Route: | | Overall Length: | 13.2 m |
| Year Built: | 1970 | Est: Yes | Overall Width: 5.8 m |
| Year Last Rehab.: | | Est: No | Roadway Width: 3.8 m |
| Region: | AVALON PENINSULA | Sidewalk Width: | 0 m |
| Jurisdiction: | Provincial | Clearance to R.D. or N.W.L.: | 1.7 m |
| Type of Structure: | 03 - Reinforced Concrete Beam/Slab | Max Depth of N.W.L.: | 0.3 m |
| Purpose of Structure: | 04 - Over Non-Navigable Waters | Spans: | |
| Type of Handrail: | 02 - Concrete Rail | Span No.: | Length |
| Roadway Surface: | 02 - Asphalt | 1 | 9.2 |
| Alignment Vertical: | 01 - Good | 2 | 0 |
| Alignment Horizontal: | 01 - Good | 3 | 0 |
| Restrictions: | No | Span No.: | Length |
| | | 4 | 0 |
| | | 5 | 0 |
| | | 6 | 0 |
| BRIDGE PHOTOS | | | |
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| SUBSTRUCTURE | | | |
| Condition: | P1 - Poor | Bearings: | U - Uninspectable |
| | | Bearing Seat: | U - Uninspectable |
| Comments: | Assumed condition of submerged reinforced concrete footings. Numerous wide vertical cracks with medium eff. deposits in abutment faces. Flow lines and construction joints opening up with heavy efflorescence deposits. Severe concrete disintegration to tops of wingwalls [SW wingwall is very severe], numerous wide map cracks with medium efflorescence deposits in faces of all wingwalls. Unable to inspect bearings or bearing seats. Medium erosion to sections of exposed reinforced concrete abutment footings. Severe erosion/moderate scour to NE end of East abut. footing. | | |
| SUPERSTRUCTURE | | | |
| Condition: | F1 - Fair | Expansion Joints: | I - Inapplicable |
| Comments: | Medium concrete spalling with medium corrosion to exposed reinforcement to bottom of upstream exterior beam. Medium horiz/vertical cracks with efflorescence deposits in remaining beams. | | |

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| DECK | | | |
| Condition: | P1 - Poor | Curbs: | I - Inapplicable |
| Hand Rail: | P1 - Poor | Roadway Condition: | I - Inapplicable |
| Approach Rail: | I - Inapplicable | | |
| Comments: | evere concrete disintegration to deck fascia's on structure. Medium transverse/longitudinal cracks in deck soffits & exposed deck surface. Concrete handrail is cracked & is tipped at south end of structure. Sections of concrete handrail is missing. Section of asphalt spalled of deck at SW end. | | |
| HYDROLOGY | | | |
| Water Velocity: | 0.6 m/s | Ice Problem: | K - Known Problem |
| Water Depth: | 0.3 m | Scour Problem: | K - Known Problem |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem |
| Comments: | Medium scour problem under both footings. Ice build-up around wingwalls. | | |
| REPLACEMENT/REHABILITATION | | | |
| Next Rehab. Date: | 2016 | Replacement Year: | 2025 |
| Antic. Rehab. Cost: | \$75000 | Replacement Cost: | \$300000 |
| Recommendations: | Repair all concrete defects. Install new handrails c/w approach/exit guiderail & new hazard markers. Asphalt on bridge deck to be fixed. Consider for replacement. | | |
| OBSERVATIONS | | | |
| Overall Condition: | P1 - Poor | Requires Further Inspection: | No |
| Additional Observations: | P1 - Wingwalls, deck fascia, & concrete handrail. F1 - Remainder Unsure as to who's responsibility this structure is ? | | |
| LEGEND: | | | |
| Condition Definitions: | | Problem Definitions: | |
| 1 - *Good - [discontinued code]. | F2 - Fair. | C - Unsafe (Closed to Public). | N - No Problem. |
| 2 - *Fair - [discontinued code]. | F1 - Fair. | U - Uninspectable. | P - Possible Problem. |
| 3 - *Poor - [discontinued code]. | P3 - Poor. | I - Inapplicable. | K - Known Problem. |
| 4 - *Unsafe - [discontinued code]. | P1 - Poor. | | NA - Not Applicable. |
| G - Good. | P - Poor. | | |
| PHOTO GUIDELINES: | | Category Definitions: | |
| Inspection Photos: | | Maint. - Maintenance. | |
| Please provide photos using guidelines below: | | Eng. - Engineering. | |
| <ul style="list-style-type: none"> ● 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 | | Office - Bridge Office. | |
| INSPECTION PHOTOS | | | |