

Multnomah County Willamette River Bridges Capital Improvement Plan



Project Summary Information: Structural Rehabilitation of Steel and Concrete Members - River Spans

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| Bridge Names(s): | Hawthorne | | Project ID#: | BUN-HA-10 | Project Status: | In Progress | |
| Project Rank: | 22 | Primary Category of Work | Structural | Performance Attribute Total Score | 15 | Importance Score | TI-2 16.03 |
| Logical Grouping Project ID #'s: | HA-STRUCT-06 and HA-STRUCT-16 | | | | | | |
| Bridge Num and Names(s): | 02757 Willamette River, Hawthorne Ave [Hawthorne] ; 02757 Willamette River, Hawthorne Ave [Hawthorne] | | | | | | |

Definition of Problem

The Hawthorne Bridge River Spans were observed to have debris between bearing components, a deteriorated bearing protective system, and concrete degradation in the web walls, pier caps and deck soffit beneath the sidewalks. The concrete degradation includes exposed reinforcing steel with section loss. Based on a review of available information, there is also structural section loss in many of the lower chord gusset plates of the Fixed River span's main truss members.

Description of Proposed Solution

The proposed solution includes the structural strengthening of the main truss bottom chord components, the removal of debris and the application of a new protective paint system for the bridge bearings, and the repair of deteriorated concrete elements.

Project Justification

The benefits of completing the structural strengthening of the truss elements, the repair of the deteriorated concrete, and the application of upgraded paint systems to the bearings are a service life extension, a reduction in the long term maintenance costs, and the avoidance of a more costly bridge bearing or main structural member replacement if the elements continue to deteriorate.



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| Right-of-Way: | \$0 |
| Utility Reimbursement: | \$0 |
| Construction: | \$8,060,647 |
| Preliminary Engineering: | \$1,950,357 |
| Construction Engineering: | \$1,950,357 |
| Total Cost at Target Construction Time: | \$11,961,361 |
| Target Construction Time: | 2020-2024 |

Notes:

None entered.