

Multnomah County Willamette River Bridges Capital Improvement Plan



Project Summary Information: Fender Repair and Installation

Bridge Names(s):	Broadway, Burnside, Hawthorne and Morrison	Project ID#:	BUN-MU-03	Project Status:	In Progress		
Project Rank:	38	Primary Category of Work	Structural	Performance Attribute Total Score	19	Importance Score	TI-3 14.04
Logical Grouping Project ID #'s:	BR-STRUCT-12, BU-STRUCT-05, HA-STRUCT-14, and MO-STRUCT-6						
Bridge Num and Names(s):	06757 Willamette River, Broadway St [Broadway] ; 00511 Willamette River, Burnside St (Burnside) [Burnside] ; 02758 Willamette River, Morrison St (Morrison) [Morrison]; 02757 Willamette River, Hawthorne Ave [Hawthorne]						

Definition of Problem

The movable bridges in Portland have varying degrees of fender systems. The fenders help reduce the damage to the bridge piers and marine traffic by deflecting ships back towards the river spans. The Burnside and Morrison Bridges each have aging fender systems on the upstream side of the bridge's main river piers, while the Broadway and Hawthorne Bridges do not have fender systems at this time.

Description of Proposed Solution

The proposed solution to the defined problem is to conduct a vessel impact study to determine if either the volume or type of boat traffic requires a new or enhanced fender system to be installed. The project assumes that either the construction of a new fender system, or enhancements to the existing ones, will be required at all of the bridges.

Project Justification

The benefit of completing the proposed solutions are that the improved fender systems will provide protection to the piers from vessel impacts that could cause damage or even cause the bridge to be inoperable.



Right-of-Way:	\$0
Utility Reimbursement:	\$0
Construction:	\$30,275,479
Preliminary Engineering:	\$6,433,288
Construction Engineering:	\$6,433,288
Total Cost at Target Construction Time:	\$43,142,056
Target Construction Time:	2025-2029

Notes:

This project includes improvements identified during the 2014 public engagement process.