

Multnomah County Willamette River Bridges Capital Improvement Plan



Project Summary Information: Operating Machinery Rehabilitation and Brake Replacement

Bridge Names(s):	Broadway	Project ID#:	BUN-BR-01	Project Status:	In Progress		
Project Rank:	41	Primary Category of Work	Mechanical	Performance Attribute Total Score	15	Importance Score	TI-4 31.52
Logical Grouping Project ID #'s:	BR-MECH-01 and BR-MECH-02						
Bridge Num and Names(s):	06757 Willamette River, Broadway St [Broadway]						

Definition of Problem

The brakes that help slow the Broadway Bridge during its mechanical opening and closing are aging, and do not comply with current American Association of State Highway and Transportation Officials (AASHTO) code requirements. The span operating gearing also needs rehabilitation to ensure reliable service. The motor drives will be reaching the end of their service life before 2034.

Description of Proposed Solution

The proposed solution is to replace the brakes with a newer type of brake system that has proven reliability and a longer service life. A second set of brakes will also be added to the system to meet code requirements. The gearing will be rehabilitated by adjusting the bearings that hold the gears in place in order to prevent excessive wear. The motor drives will be replaced with in-kind components.

Project Justification

The completion of this work adds safety and reliability to the bridge operating machinery. It also as well as brings the operating machinery into compliance with the AASHTO standards for movable bridges.



Right-of-Way:	\$0
Utility Reimbursement:	\$0
Construction:	\$1,533,719
Preliminary Engineering:	\$383,430
Construction Engineering:	\$383,430
Total Cost at Target Construction Time:	\$2,300,579
Target Construction Time:	2030-2034

Notes:

None entered.