

Attachment B – Additional Project Information

Project Background

The 2019-2020 Wastewater CIP includes several projects to replace or abandon wastewater pump stations due to aging and failing equipment. Wastewater Pump Station 13 was built in 1985 to provide wastewater conveyance for a large area of the Marymoor Business Park. The existing station's equipment was beyond its useful life and has now been replaced.

In 2017, the Marymoor Subarea (Business Park) was rezoned from light industrial to a combination of multi-family and commercial. The new zoning requires the pump station system capacity to be increased to accommodate this new development. The new wastewater pump system is now complete and is ready to receive the added flows from the rezoned area. The anticipated flow from the rezoned area would have exceeded the capacity of the older wastewater pump system.

Project Description

This project constructed a replacement for Wastewater Pump Station 13 with a new station pumping wastewater into a new 12-inch force main along 176th Ave NE and NE 70th St that discharges to the King County wastewater collector. Gravity sewer main was also replaced around the pump station to carry higher flows anticipated from the rezoned development. This project piping installation has been completed in advance of the Sound Transit work. The pump station includes replacement of pumps, controls, electrical panel, standby power, valves, piping, safety equipment, and other items identified during design. The new station has been constructed in an existing easement on the Lake Washington Institute of Technology site adjacent to the existing pump station site and Marymoor Park. This is the same property that is currently leased by the City of Redmond for use as the Redmond Community Center at Marymoor Village. The project experienced numerous challenges including: the pandemic disruption, franchise utility relocation delays, and difficulty dewatering the ground water for the caisson and pipe installation. These factors combined to extend the project duration from a one year to three years.

The original 2016 cost estimate for the pump station rehabilitation (\$3.1M) assumed the station would be rehabilitated in the existing location to serve the existing neighborhood with no increase in its original 400 gallons per minute (gpm) capacity. The updated cost estimate in the 2019-2020 CIP (\$15.0M) acknowledged that the project scope increased to serve a rezoned Marymoor Subarea (Business Park) that will require a much larger pump station with increased capacity (2,000 gpm) to serve the fully redeveloped neighborhood. The \$11.9M increase in cost is funded through a Wastewater Additional Connection Charge that was approved by City Council on December 4, 2018.

Fiscal Information

Current Project Budget

Wastewater CIP	\$13,730,795
Total Funding	\$13,730,795

Estimated Project Costs

Design	\$1,063,231
Construction	\$10,900,000
Total Estimated Project Cost	\$11,963,231

Budget Difference	\$1,767,564
Contingency returned to Wastewater CIP	

Photos



Completed pump station



Control room training for MOC staff