

Memorandum

Date: September 11, 2022

Project: 20-2737, On-Call Water System Analysis

To: Ms. Kim McMillan, PE – Community Development Director
Mr. Tony Doran – Engineering Associate
City of Tualatin

From: Brian Ginter, PE

Re: 9300 SW Norwood – Water System Capacity Analysis

Introduction

As requested, this memorandum has been prepared to present the findings of our analysis of the water service to the proposed multi-family development located at 9300 SW Norwood Road, southeast of the intersection of Boones Ferry Road and Norwood Road. This memorandum presents the findings of this analysis for the City's use in determining the water system improvements necessary to meet fire flow and pressure requirements.

Analysis and Conclusions

MurraySmith performed a review of the water service requirements associated with this development, and confirmed that the proposed multi-family develop does not require further analysis since prior analyses of proposed developments in the vicinity (Autumn Sunrise Subdivision and the Community Partners for Affordable Housing – Plambeck Gardens), have already defined water service availability and required water system improvements.

With the completion of the following planned improvements, a combination of City capital improvement projects and developer-constructed improvements, adequate water service for domestic and fire suppression is available at the proposed development.

- An 18-inch diameter B-level water line in Boones Ferry Road (to Norwood) being designed by AKS as a City CIP. The line extends east on Norwood to the B Level Reservoir/C Level Pump Station site.
- Lennar will upsize additional lines for the C-level, either by adding a new line across the Norwood frontage of the Autumn Sunrise development or upsizing the internal lines (following the street layout).

- CPAH is required by COAs to extend a 12-inch diameter C-level water line down Boones Ferry Road, from Norwood Road to their south property line.
- Autumn Sunrise will be installing upsized C-level lines from Norwood Road, through the development, out to BFR via Mahogany/Salinan, and then north to connect to the line CPAH will be installing in BFR.

If the proposed development at 9300 SW Norwood Road occurs prior to the completion of these improvements, it may impact the availability of water service.