



ENGINEERING SERVICES

To: Mayor and Town Council

From: Daniel Heischman, P.E., Assistant Director of Engineering Services - Development

Through: Harlan Jefferson, Town Manager
Rebecca Zook, Executive Director of Development & Infrastructure Services

Re: Town Council Meeting – September 8, 2020

Agenda Item:

Consider and act upon an amendment to the Wastewater Master Plan.

Description of Agenda Item:

During pre-development meetings with the Windsong Ranch engineering design team, it was discovered that an area that Windsong Ranch is planning to develop east of Doe Branch is shown on the Town's Wastewater Master Plan to be served by a future wastewater line on the west side of Doe Branch. Upon further analysis, it was determined that providing wastewater services from the west side of Doe Branch to the east side of Doe Branch would be cost prohibitive due to the physical constraints of the existing shallow UTRWD trunk main, which would need to be crossed, combined with relatively low creek elevations in relation to the UTRWD trunk main. In order to provide wastewater service to the area east of the Doe Branch main channel, it was recommended that a new wastewater line be extended to serve the basin on the east side of Doe Branch.

In order to determine the appropriate capacity of the new wastewater line, the Town requested Freese and Nichols analyze the basin east of the Doe Branch main channel shown in the existing Wastewater Master Plan to determine the appropriate capacity/size required for the new wastewater line. Wastewater lines that are ten-inch (10") or greater are considered capital improvement projects and are depicted on the Town's Wastewater Master Plan. Wastewater lines less than ten inches (10") are deemed development lines, not shown on the Town's Wastewater Master Plan, and are installed with development at their expense.

Freese and Nichols analyzed the basin east of Doe Branch and determined the appropriate capacity/size required for the new wastewater line and the extent of the line to be shown on the Town's Wastewater Master Plan. In addition, Freese and Nichols re-evaluated the planned five (5) wastewater lines connections to the UTRWD trunk main on the west side of Doe Branch, taking into account the reduction of the basin on the east side of Doe Branch, and was able to reduce the wastewater line to a single connection point to the UTRWD trunk main.

The purpose of the amendment to the Wastewater Master Plan is to update the plan to add the wastewater line being constructed by Windsong Ranch to adequately serve the area east of Doe Branch, and to update the wastewater line on the west side of Doe Branch to show a single point of connection to the UTRWD trunk main.

Attached Documents:

1. Existing Town of Prosper Wastewater Master Plan
2. Proposed Town of Prosper Wastewater Master Plan

Town Staff Recommendation:

Town staff recommends that the Town Council amend the Wastewater Master Plan.

Proposed Motion:

I move to approve an amendment to the Wastewater Master Plan.