

To: Phil Peden, PE
City of Bloomington Utilities Department

From: Jared Ward
Project Manager/ Stantec

Project/File: Summit District PUD/193806201
Date: January 25, 2024

Reference: RE: Sanitary Sewer and Water Capacity Analysis

This memo is to provide confirmation of the Summit District Development Teams understanding of the ability for the proposed PUD development to be served for both sanitary sewer and water.

Sanitary Sewer

The Dillman WWTP West Interceptor – Summit District Impact memo dated 9/5/2023 prepared by Commonwealth Engineers identified existing system capacity issues, overall impacts of planned development in the sewer shed and the impact of the Summit District PUD. The development team, the City and CBU are currently incorporating these findings, contributions and related improvement schedules into the development agreement.

Since the issuance of the above referenced memo, the development team has been working with CBU and subsequently Commonwealth Engineers to analyze refinements to the overall unit count and planned connection points for the development. The following design adjustments were analyzed:

- Development discharge points:
 - o The updated design proposes two connection points for the development vs the single previous connection:
 - Phase 1 (Shasta Meadows) connection point will be at MH 7600 with a proposed Peak Daily Flow Rate of 0.682 MGD. The updated modeling by Commonwealth as noted in email on 1/10/2024 will meet the capacity at the connection point, and the downstream 20-inch segment with no SSO's.
 - Phases 2-5 connection point will be at MH 3147, or further downstream along the 30-inch segment with a proposed Peak Daily Flow of 4.588 MGD. The update will not create additional SSOs in the existing system, but will increase SSO volume at the existing locations identified in Section 4 of the report.
- Reduction in overall development flows
 - o The updated development design reduces the overall unit count from 4,966 down to 4,250. With this adjustment, the updated Peak Daily Flow Rate of 5.27 MGD was modeled. This flow contribution still resulted in SSO's as identified in Section 4 of the report.

It is the development team's understanding that these modifications and required improvements are being incorporated into CBU's improvement assumptions. It is also our understanding that the planned delivery

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dates in the PUD Submittal Package align with CBU's schedule for the necessary infrastructure improvements related to the sanitary sewer system. Summit District Development Team anticipates an MOU with CBU that specifies the timing and participation necessary with each final plan approved by the City Planning Department.

Water Supply

The Summit District Development team understands the need to provide modeling of the proposed water system to accommodate adequate fire flow within the development. While preliminary review of existing flows and pressures at the development connection points provided by CBU indicate there will be sufficient flows to accommodate the full development, we will be creating a model to verify both proposed phasing and full buildout are compliant with the fire flow requirements.

Sincerely,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in black ink, appearing to read "Jared T. Ward". The signature is fluid and cursive, with a large loop at the beginning.

Jared Ward

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