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**CIVIL & TRAFFIC ENGINEERS / LAND SURVEYORS / PLANNERS / LANDSCAPE ARCHITECTS**  
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The Gateway  
Sanitary Sewer Extension Narrative  
May 5, 2020

Design Professionals, Inc. conducted an analysis of providing sanitary sewer service to 300 Buckland Road (Messiah Evangelical Lutheran Church). The closest locations of existing sanitary sewer mains are a stub left near the southern property line of 340 Buckland Road recently constructed with the Hannoush Jewelers building and a stub located in a manhole at the northern property line of 218 Buckland Road constructed with M&R Liquors building. The attached exhibit shows the approximate locations of each stub.

The exhibit also shows the approximate length of extension required from each stub to reach the southern property line of 296 Buckland Road (the church's parsonage). If both lines were extended at a 1.0% slope, the line extended from the north would be approximately 5 feet lower than the line extended from the south. The northern stub is likely located within the Buckland Road right-of-way where the right-of-way is wider than exists to the south. It is probable the extension of the northern stub can be achieved without requiring an easement from the property at 326 Buckland Road (existing house). The extension from the north would serve the entire frontage of 296, 300, & 326 Buckland Road, while an extension from the south only provides service at the southern boundary at a much higher elevation.

For these reasons, it is the recommendation of Design Professionals, Inc. the properties known as 296, 300, & 326 Buckland Road are best served by future extension of the sanitary sewer stub provided to the north. Furthermore, since The Gateway development will provide its own sanitary connection internal to the site and no other properties in this area require future sewer service, we recommend the stubs in the existing manhole be capped as a part of The Gateway construction.