
TO:	Paul Deschaine	DATE:	January 12, 2016
FROM:	Christopher Berg, PE	PROJECT NO.:	13327
SUBJECT:	Stratham, NH – Gateway District Water System Preliminary Budget Cost Estimate		

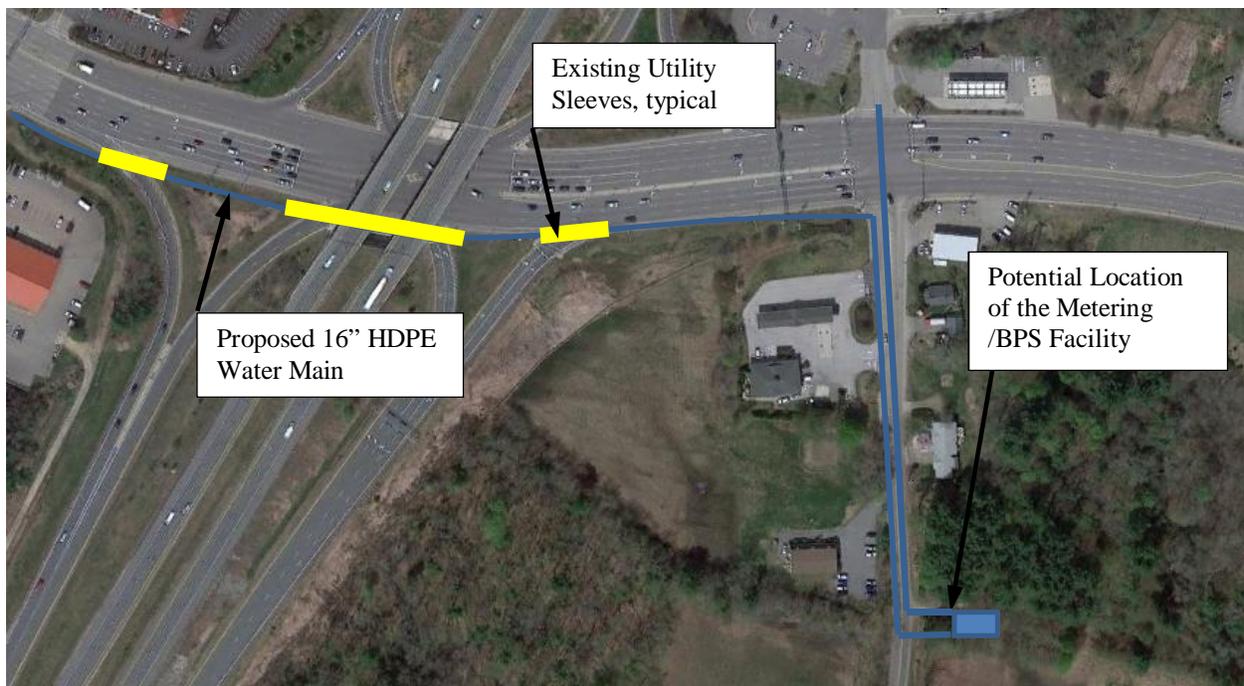
Project Summary

Phase 1 – 16" water main from Exeter to the Stratham Heights Road Booster Pump Station

Approximately 2,000 linear feet of 16-inch high density polyethylene installed along Route 108 from the Exeter/Stratham Town Line to a booster pump station and metering facility located on Stratham Heights Road. Approximately 1,000 linear feet of 16-inch ductile iron water main will be installed from the pump station along Stratham Heights Road and across Route 108. Figure 1 shows the proposed location of the water main and the assumed location of the booster pump station on a Town owned parcel on Stratham Heights Road.

The new booster pump station will be a single story building with split face cavity masonry walls, metal roof, and 4-foot concrete frost wall and no basement or pipe gallery. The building will be comprised of two rooms; a pump room including electrical and instrumentation and a meter room. Space for future potential addition of disinfectant will be integrated into the design. The building will be ~900 sq ft. Each room will be accessible through a separate exterior door. The building exterior will be designed to conform to the Town's planning and zoning requirements. An exterior emergency generator will be installed adjacent to the building.

Figure 1 – Phase 1 Overview Map



Phase 2 – 16” water main From Stratham Heights Road to Frying Pan Lane

Approximately 3,500 linear feet of water main will be installed along the Western side of Route 108 as part of this phase of the project. A Use and Occupancy Agreement will be required as part of construction of water main in this installation. Figure 2 shows the proposed limits of the project and the preliminary location of the water main.

Figure 2 - Phase 2 Overview Map



Cost Summary

Description	Cost
Phase 1	
Pump Station	\$630,000
Water Main	\$800,000
Engineering and Contingency 30%	\$510,000
<i>Project Cost</i>	<i>\$1,940,000</i>
Phase 2	
*Water Main	\$1,470,000
Engineering and Contingency 30%	\$420,000
<i>Project Cost</i>	<i>\$1,890,000</i>
**Estimated Total Project Cost	\$3,830,000

*Assumed ledge quantity of 20% excavation

**This is a Class 3 Estimate (Budget Authorization or Control) based on AACE Standards December 2015 ENR 20 City Average Construction Cost Index is 10095