

COLONIAL AVENUE AND LAKE STREET UTILITY REPLACEMENT PROJECT

Project Update No. 1
Friday, July 10, 2008

Background

As you may be aware, the existing asphalt street, between Kings Highway East (County Route 573) and Grove Street (County Route No. 644) is being replaced as part of the 2008 Road Program. As part of the design process, which began in December 2007, the Borough conducted a video pipe inspection of the sanitary sewer pipes and reviewed the relative age, size and capacity of the existing municipal water main piping beneath the street. Based upon this evaluation, it was necessary to replace the existing 4 inch diameter water main, with new 8 inch diameter piping along the length of Colonial Avenue and to replace portions of the existing 4 inch diameter water main along Lake Street from Colonial Avenue to Grove Street. As part of the water main replacement process, the individual water services (which are typically 1 inch diameter or smaller pipes) that connect the water main to each house are also to be replaced from the new main to the approximately the curb line, where the outside house shut-off valves are located.

Considering that it is approximately 80 years old, the sanitary sewer piping was in generally good condition; however, it was still advisable to replace the sewer laterals (4 inch diameter pipes that connect the sanitary sewer main to the plumbing fixtures in each house) before the asphalt roadway is replaced. The laterals will be replaced from the existing sewer main to approximately the curb line, where a new "clean-out" will be installed. Each homeowner is reminded that they are still responsible for the water service and sewer lateral from their house to the newly installed house shut-off and cleanout; however, a construction project such as this one is always a good time to think about having your plumber (or other qualified contractor) replace the remaining older piping.

During the design process, the Borough contacted PSE&G to discuss the feasibility of replacing the old gas main piping beneath the roadway, some of which was installed directly on top of the existing sanitary sewer piping. Based upon discussions with PSE&G, it was determined that it would be advisable for PSE&G to replace the gas main and all house services (smaller diameter gas piping that connects each house to the gas main in the roadway) before the asphalt roadway was replaced. This work, which is conducted by PSE&G at no cost to the Borough and/or the homeowners, will be completed at the same time the Borough is working on the utility replacements.

All of the design work was completed this spring and the project was advertised for public bids in early May. Several bids were submitted from qualified contractors and the project was awarded to Perna Finnigan, Inc. of Vineland, New Jersey. A preconstruction meeting was held with Perna Finnigan, Inc. (P&F for short) and generally the sequence of work, which is expected to be completed within sixty (60) days, will consist of the following:

- ∞ P&F to install the new 8 inch diameter main starting at Kings Highway East and working toward Grove Street. A total of 1,669 linear feet of new 8 inch diameter water main was estimated to be installed during the course of the project.
- ∞ Once P&F has installed the new water main past Willits Avenue, PSE&G to start the gas main and house service replacement between Kings Highway East and Lake Street.
- ∞ Once P&F has completed the new water main installation, including the connection to the existing water main on Grove Street, they will conduct the required testing (pressure test and bacterial test) on all newly installed piping.
- ∞ Upon receipt of passing test results, P&F will work on installing the new water services and sewer laterals. This work will start at the intersection of Kings Highway East and Colonial Avenue or at the intersection of Lake Street and Grove Street.

It should be noted that upon completion and acceptance of all utility work, the existing asphalt roadway, including concrete curbing and driveway aprons, will be replaced under a separate contract.

Project Status

Week 1

P&F started the construction phase of the project (they had been working on meeting all State and Borough contract requirements and material submittals) on June 16, 2008, by installing what is called a "test pit" at the intersection of Kings Highway and Colonial Avenue. This excavation or "pit" is way for contractors and designers to verify the exact location (both horizontal and vertical) and type of subsurface utilities. Based upon the results of this and other test pits installed along Colonial Avenue, P&F started installing the new 8 inch diameter water main piping by connecting to an existing 12 inch diameter water main located beneath the west side of Kings Highway East. After a very long day and several unexpected twists, including finding an old buried 12 inch water main valve and several buried electric lines, P&F completed the installation of three (3) new water main valves, a new fire hydrant and completed the connection of the new 8 inch diameter water main to the existing 12 inch diameter main. Over the remainder of the week, P&F installed approximately 475 linear feet of new 8 inch diameter water main piping, with a minimum of service interruptions and underground surprises. On Friday, June 20, 2008, P&F took a break from water main installation work and thoroughly cleaned the roadway and installed temporary asphalt patches where it was necessary to remove the existing roadway. It should be noted that although all of the existing asphalt will be removed and replaced, it is still advisable to install this temporary patching so that the inconvenience to residents is kept to a minimum and the newly disturbed soil in the water main trench area is covered during the remainder of the project.

Week 2

On June 23rd, as P&F efficiently continued their water main installation, PSE&G began work on replacing the gas main and house services between Kings Highway East and Willits Avenue. Although PSE&G encountered some surprises, including inadvertently hitting the water service to 22 Colonial Avenue, they had installed approximately 340 linear feet of new 2 inch diameter gas main as they worked from Kings Highway East toward Lake Street. Meanwhile, P&F

installed an additional 503 linear feet of new 8 inch water main, as well as, completing test pits at the Lake Street and Grove Street connection point. Once again on Friday, P&F cleaned the roadway and installed the temporary patching over the new water main trench. It should be noted that although PS&G is also responsible for patching their work, since they are not working directly for the Borough, they are not subject to the same contractual requirements as P&F. This means that the quality of the patching (and cleanup of the roadway) may vary between the two companies.

Week 3

During this week, which was shortened by the 4th of July holiday celebrations, P&F and PSE&G continued their respective work. By Thursday, P&F completed the installation of the new water main along the entire length of Colonial Avenue. They also prepared for testing the newly installed main, and started the installation of the new water main on Lake Street. Overall, P&F installed over 474 linear feet of 8 inch diameter water main and three (3) new water main valves at the intersection of Colonial Avenue and Lake Street. PSE&G almost completed the installation of the new gas main, stopping just short of Lake Street. P&F spent most of Thursday getting the street ready for the holiday and starting the testing process for the newly installed main along Colonial Avenue.

Week 4

After a long holiday weekend, P&F continued installing the new 8 inch diameter main on Lake Street. Based upon extensive coordination and discussions with the Borough and PSE&G, P&F started and completed the connection of the new water main to the existing pipes located on the north side of Grove Street. This work, which required the closure of one lane of Grove Street and constant police presence to keep the traffic moving, was completed early Wednesday evening. Overall, P&F installed approximately 209 linear feet of new 8 inch diameter water during this challenging work week, for a project total of 1,661 linear feet of newly installed piping. On Thursday, P&F conducted pressure testing of the newly installed mains and by Friday they started replacing the sanitary sewer laterals along Colonial Avenue working from Kings Highway East toward Lake Street. Meanwhile, PSE&G completed the installation of the new gas house services from Kings Highway East to just past Willits Avenue. As in the past weeks, P&F finished their work on Friday by cleaning the roadway and installing temporary asphalt patches.

Project Schedule

Currently, P&F will complete all pressure and bacteria testing, the results of which will be reviewed and approved by the Borough's Director of Utilities, Mr. Joseph Keating. P&F will make any repairs or conduct additional testing as warranted by the test results. They will continue with the sewer lateral replacements and it is anticipated that they will start installing the new water services by Tuesday, July 15, 2008. It should be noted that during the sewer lateral and water service replacements, there will be a short period (usually no more than 2-hours) where it will not be possible to use the water and/or other plumbing fixtures in the house. P&F will notify each house in advance and will work to limit the service interruption to the shortest time possible.

Based upon discussions with PSE&G, they will continue to replace all of the old house services along Colonial Avenue and they should be close to completing the switch to the new main by July 18, 2008.

