

# 2009 Road Program Summary

## Haddonfield Borough, NJ

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### **Woodland Avenue Utility Replacement and Roadway Reconstruction Project**

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Woodland Avenue is a residential roadway connecting Avondale Avenue (CR 646) and the Borough-owned Westmont Avenue. Both Avondale Avenue and Westmont Avenue provide vehicle, bicycle and pedestrian access to other residential areas in the Borough and adjacent municipalities. The proposed work on Woodland Avenue includes relocating a portion of the old clay sanitary sewer pipe previously installed beneath the existing residential structures, the removal and replacement of the municipal water main, the installation of new storm sewer and sump pump collector piping along portions of the roadway, and the removal and replacement of the existing concrete curbing, driveway aprons and asphalt pavement.

As part of the design process, the Borough conducted a video pipe inspection of the sanitary sewer pipes in the area. Considering it is approximately 70 years old, the sanitary sewer piping along Woodland Avenue was generally in good condition; however, it was confirmed that a portion of the old clay sanitary sewer system between Avondale Avenue and Elm Avenue was previously installed along the adjacent Newton Creek. Subsequently, several houses and/or garages along both Woodland Avenue and Elm Avenue were constructed over this clay sanitary sewer pipe. Therefore, it is necessary to abandon the existing clay sanitary sewer and install a new polyvinyl chloride (PVC) sewer main along Woodland Avenue and Peyton Avenue from Avondale Avenue to Elm Avenue. As part of the new sanitary sewer, each house lateral (4 inch diameter pipes that connect the sanitary sewer main to the plumbing fixtures in each house) will be replaced from the new sanitary sewer main to approximately the curb line, where a new "clean-out" will be installed. Although the remaining sanitary sewer main is in acceptable condition, it is still advisable to replace the sewer laterals before the asphalt roadway is replaced. Similar to the proposed sewer work between Avondale Avenue and Peyton Avenue, the laterals will be replaced from the existing sewer main to approximately the curb line, where a new "clean-out" will be installed.

Also, the Borough reviewed the relative age, size and capacity of the existing municipal water main piping beneath the street. Based on this evaluation, it was necessary to replace the existing four inch diameter water main, with new eight inch diameter piping along the length of Woodland Avenue. As part of the water main replacement process, the individual water services (typically one inch diameter or smaller pipes) connecting the water main to each house will also be replaced from the new main to approximately the curb line, where the outside house shut-off valves are located.

Each homeowner in the project area is reminded 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 consider having your plumber (or other qualified contractor) replace the remaining older piping.

As many residents are aware, there limited feasible locations along Woodland Avenue for residential property owners to properly locate their existing sump pump discharges.

Since one of the goals of the project is to significantly reduce the amount of infiltration and inflow from both the existing clay sanitary sewer located adjacent to Newton Creek and any existing residential sump pumps are illegally connected to the sanitary sewer system, the Borough will install new storm sewer piping and a sump pump collection system for portions of the roadway. Although it would be preferable to install these drainage improvements along the entire roadway, the size, location and elevations of the existing stormwater infrastructure limit the amount of new piping that can be installed.

Upon completion and acceptance of all of the proposed utility replacement work, the Borough will replace the existing concrete curbing, driveway aprons, and asphalt pavement in the project area. Additionally, the Borough will install the currently missing sidewalk along Avondale Avenue, between the Borough line and adjacent Elizabeth Haddon Elementary School. Also, the public bidding documents will contain a provision for prospective contractors to provide "alternate" prices to install the missing sidewalk along both sides of Woodland Avenue from Peyton Avenue to the proposed new sidewalk along Avondale Avenue. This proposed new sidewalk will require significant changes to the property frontages in the area; however, all of the changes will be limited to the Borough-owned right-of-way (typically about 10 feet to 15 feet behind the existing curb line) and all disturbed areas will be restored to a condition at least as good as the current condition.