

Hillandale Road Dual Waterline Replacement, Phase I

Old West Durham Neighborhood Association Meeting

Thursday, January 28, 2010

DURHAM



1869
CITY OF MEDICINE

WATER SUPPLY HISTORY HIGHLIGHTS

- Original 12-inch waterline was constructed in 1887 by Durham Water Company from the Eno River to downtown. 20-inch line installed in 1901 to boost pressures and supply of water.
- Construction of the Williams Water Treatment Plant, Hillandale Rd, in 1917, with major additions in 1927 and 1950.
- In the mid-1950's, a 24-inch main was installed along Main St./railroad corridor.
- These three mains supply both the Old West Durham and Watts-Hillandale areas as well as downtown Durham and beyond. Numerous interconnections with smaller lines along most streets.
- System-wide analysis in 2000/2001 showed replacement of the 12 and 20-inch waterlines was needed.
- Current problems with the existing 12 and 20-inch waterlines:
 - Aged beyond useful service life
 - Prone to continued leaks and repairs
 - Currently located beneath several homes and garages.

PROJECT INFORMATION

- City contracted with design firm Kimley-Horn and Associates, Raleigh, for several design projects.
- 6,600 linear feet of 36-inch waterline (ductile iron pipe), with key tie-ins.
- Construction Duration: approximately 8 months
- Time of construction work: generally Monday through Friday between 7:00 am and 6:00pm
- This project is paid for by the City's Capital Improvement Program (CIP).
- Benefits of the new waterline:
 - New waterline with 50+ year service life
 - Constructed of ductile iron pipe with rubber gaskets to prevent leakage
 - Constructed in open areas (streets and utility easement) for ease of maintenance
 - Improved water service to all users
 - Sections of aged terracotta sanitary sewer will also be replaced

FREQUENTLY ASKED QUESTIONS

- What will happen to the traffic circle at Green Street and Hale Street?

The traffic circle will be removed during construction and then replaced to its original condition. The tree in the middle will be removed to protect the utilities.

- Will streets be closed to traffic during the project? If so, approximately how long?

Streets will be closed only in sections in the area of construction, during the time it takes to install the pipe in that location. Detours will be posted. Property owners will be provided access to their driveways, but should expect disruption for a short period of time.

- Will my front yard be impacted by the project?

The construction area will be contained within the right-of-way limits of the street, except for one area near Hillandale Road and the western end of Englewood Avenue. Driveway aprons at the edge of the curb will be replaced to their original condition, as needed. At the completion of the project, most areas along the project corridor will be repaved across the full width of the roadway. A significant amount of curb and gutter will also be replaced.

- What will happen to the old waterlines?

Once the new waterline is in operation, lean concrete will be pumped into the old mains, at several locations, filling them completely in order to safely abandon them.

Please direct all further questions to City of Durham Department of Water Management representatives, Renee Lawrence (renee.lawrence@durhamnc.gov) or Jim Harding (jim.harding@durhamnc.gov).