

CITY OF BEXLEY

S REMINGTON ROAD AND S CASSINGHAM ROAD SANITARY SEWER, WATER AND STREET IMPROVEMENTS

OPWC ISSUE 2 GRANT APPLICATION- CITY COUNCIL MEETING

12 September, 2023

PROJECT DESCRIPTION: This project proposes to replace deteriorated water mains within S. Remington Road (between Fair Avenue and Main Street) and S. Cassingham Road (between Main Street and Livingston). We also propose to line, repair and improve the existing storm sewer and sanitary sewer mains serving these areas. The scope of work includes the replacement the existing water mains as needed to make connections on side streets and all the replacement of all existing water services from the new main to the curb stop valve. Upon completion of the underground utility replacement and repair we plan to resurface S. Remington Road and S. Cassingham Road.

We also propose to improve the street lighting, sidewalks, crosswalks, curb ramps, signs and other related work to make the roads complete and useable by all residents. Particular attention will be directed toward the non-ADA compliant sidewalks on S Remington Road where the existing sidewalks are only 3' wide and have excessively steep cross slopes where the driveway drops are ramped across the walk. Cross slopes in these locations are in excess of 10% whereas the maximum cross slope permitted by the ADA is 2%.

PURPOSE AND NEED: The area surrounding S. Remington Road and S. Cassingham Road has experienced numerous water main and service line breaks within the last ten years and is known to have many existing lead service lines which need to be replaced. Storm water also infiltrates directly into the sanitary sewer as the existing storm sewers were built adjacent to the sanitary sewers. Leaks from the storm sewers cause the sanitary sewers to surcharge resulting in basement backups and contribute to excessive flow for the City of Columbus Wastewater Treatment Plant during wet weather events.

In addition to the storm water and sanitary sewer drainage issues, the water mains for both S. Remington Road and S Cassingham Road have suffered numerous breaks and have reduced flow due to tuberculation (deposits) inside the pipes. The water mains are over 90 years old and are well past the normal useful life for a cast iron water main (avg. 40 to 50 years). After the project is completed the flow available will be increased to over 1000 gallons per minute throughout both streets by making this improvement. Current fire flow is only about 400 to 600 gpm through the existing fire hydrants in some locations. Abandonment of the old 6" water mains will also eliminate water main breaks from these roadways.

PROPOSED SCHEDULE: If the grant and loan that are being requested are awarded, the project could start as soon as April of 2025.

ANTICIPATED BENEFITS: Improved sanitary sewer and storm water drainage. Reduced water in basement occurrences. Improved traffic safety. Improved fire flow. Improved access to public transportation and facilities. Fewer water outages because of water main breaks. Replacement of lead water service pipes.