



Legislation Text

File #: 041231, Version: 0

Purchase Order to Install Cured-in-Place Pipe - Black Acres Area (B)

All of the identified existing sanitary sewers are vitrified clay pipe (VCP) that are generally located in the Black Acres area. The portion of the 21-inch gravity sewer to be lined begins south of NW 8th Avenue and extends to GRU Lift Station No.1 (LS 1) located near the intersection of SW 2nd Avenue and SW 34th Street. The 12-inch and 15-inch gravity sewer is located approximately between the 2300 to 2700 block of NW 7th Road. The 8-inch gravity sewer is located along SW 2nd Avenue near LS 1. The rehabilitation activity proposed will prevent future breaks and groundwater infiltration. Due to the depth, location, and environmental considerations associated with rehabilitating these gravity sewer mains, replacement of the sewer mains using conventional open trench techniques is not economically feasible.

Lining the sewer mains with a cured-in-place resin impregnated liner is a proven and cost effective trenchless technology for rehabilitating sewer mains. The lining of the sewer mains will provide renewed structural integrity, eliminate internal corrosion and prevent infiltration of groundwater into the sewer system which can exceed the existing gravity sewer system capacity possibly causing ground settlement and ultimate failure of the system. Infiltration also significantly reduces the wastewater collection and treatment plant's capacity as well as increasing pumping and treatment costs. This project is part of an on-going program to reduce infiltration and inflow within the wastewater collection system. This project also demonstrates proactive progress by GRU concerning the Florida Department of Environmental Protection (FDEP) Consent Order No. 03-1591. In addition to lining the sewer main, the work includes televising of the sewer main, heavy cleaning, and the installation of temporary wastewater bypass pumps and above ground force main as may be required.

Invitations to Bid for the installation of the Cured-In-Place Pipe (CIPP) were sent by Utilities Purchasing to the two known companies performing these services, with both responding. A tabulation of the bids is attached for your information. The recommended not to exceed amount includes approximately 15 percent contingency to accommodate any additional work resulting from changes in conditions in the field.

The City Commission approve the issuance of a purchase order to Insituform Technologies, Inc. to install CIPP lining to rehabilitate approximately 2980 feet of existing 21-inch diameter gravity sanitary sewer, 400 feet of existing 15-inch diameter gravity sanitary sewer, 2350 feet of existing 12-inch diameter gravity sanitary sewer, and 430 feet of existing 8-inch diameter gravity sanitary sewer in an amount not to exceed \$515,000.

Funding for this work is in the approved FY 2005 Water/Wastewater Systems budget.

Prepared by David M. Richardson, Interim Assistant General Manager, Water/Wastewater Systems

Submitted by Michael L. Kurtz, General Manager