

Indian River County, Florida
Department of Utility Services
Board Memorandum

Date: September 6, 2019
To: Jason E. Brown, County Administrator
From: Vincent Burke, PE, Director of Utility Services
Prepared By: Elliese Shaughnessy, EI, Utilities Design Engineer
Subject: Approval of Kimley-Horn Work Order No. 15, "Ixora Park Sewer System Rehabilitation"

Background/Analysis:

Ixora Park Subdivision contains approximately 9,710 linear feet of vitrified clay pipe (VCP) gravity sewer and 23 manholes dating from 1952. A lift station connects the system from the northwest corner of the property into a force main along 1st Street Southwest. Indian River County Department of Utility Services (IRCDUS) has discovered deficiencies in the VCP through sand buildup and weakening of the roadways.

Kimley-Horn and Associates, Inc. (KHA) surveyed the gravity system and determined areas to restore or replace. They recommend 4,100 linear feet (LF) of pipe to be lined and 3,100 LF to be replaced. KHA has been tasked with the following:

- TASK 1: Create a report of recommendations for 2,500 LF of gravity sewer that has recently undergone closed-circuit television (CCTV) inspection. This will include a comprehensive Opinion of Probable Cost (OPC) for all gravity sewer rehabilitation and replacement.
- TASK 2: Prepare design specifications for pipe lining and lateral rehabilitation for 4,100 LF of gravity sewer. Separate sets of bid documents will be provided for pipe lining and for lateral rehabilitation.
- TASK 3: Develop construction plans and technical specifications for pipe replacement. This will include 60%, 90%, and final drawings as well as an OPC.

The schedule and cost are summarized below:

Task 1 Phase 2 Sewer System Evaluation Survey (SSES)	4 – 8 weeks	\$11,889
Task 2 Pipe Lining and Lateral Rehabilitation	8 – 10 weeks	\$15,889
Task 3 Full Sewer Pipe Replacement	4 – 6 weeks	\$52,441
Total		\$80,219

Funding:

Funding for this project is derived from operating funds. Operating fund revenues are generated from water and sewer sales. Funding for this project is programmed for fiscal year 2019/2020. Therefore, please note that the notice to proceed will be issued October 1, 2019.

Account Name	Account Number	Amount
Ixora Park Sewer	471-169000-16513	\$80,219

Recommendation:

Staff recommends that the Board of County Commissioners approve Work Order No. 15 to authorize Kimley-Horn & Associates, Inc to prepare a full set of recommendations and bid documents to restore and replace gravity sewer lines in the Ixora Park subdivision.

Attachments:

1. Kimley-Horn & Associates, Inc Work Order No. 15