

CCNA2018 WORK ORDER 15

Ixora Park Sewer System Rehabilitation

This Work Order Number 15 is entered into as of this ___ day of _____, 2019, pursuant to that certain Continuing Consulting Engineering Services Agreement for Professional Services entered into as of this 17th day of April, 2018 (collectively referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Kimley-Horn & Associates, Inc ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:

**BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY**

By: _____

By: _____

, Chairman

Print Name: _____

Title: _____

BCC Approved Date: _____

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By: _____

Deputy Clerk

Approved: _____

Jason E. Brown, County Administrator

Approved as to form and legal sufficiency: _____

Dylan T. Reingold, County Attorney

EXHIBIT A

Work Order Number 15

Indian River County Department of Utility Services

Ixora Park Sewer System Rehabilitation

PROJECT UNDERSTANDING

The Ixora Park neighborhood has a public sewer system that consists of approximately 9,710 linear feet (LF) of gravity sewer and 23 manholes connecting to a lift station at the northwest corner of the property. Indian River County Utilities (IRCU) has identified a large amount of sand in the pipes as well as the undermining of the roadways, both indicators of severe defects of the vitrified clay pipe (VCP).

Kimley-Horn and Associates, Inc. (the Consultant) completed a Sewer System Evaluation Survey (SSES) of the condition of the existing sewer infrastructure and recommended improvements to rehabilitate or replace components of the system. The Consultant understands that this scope of work shall cover the coordination of pipe rehabilitation work and the design and bidding assistance of pipe replacement work.

SCOPE OF WORK

The recommendations for the rehabilitation of the Ixora Park sewer system included a Phase 2 SSES for the approximately 2,500 LF of pipes that were previously unable to be surveyed, approximately 4,100 linear feet (LF) of pipe lining with lateral rehabilitations, and approximately 3,110 LF of full sewer pipe replacement. The Consultant will provide the following tasks for IRCU.

TASK 1 - PHASE 2 SSES

Approximately 2,500 LF of gravity sewer pipe was excluded from the SSES completed in May 2019 by the Consultant as CCTV was unavailable. The pipes that were unable to be surveyed are indicated on **Figure 1**. Since the completion of the original SSES, IRCU has completed the CCTV inspection of these pipes. The CCTV will be used to complete an additional SSES report and recommendations.

Task 1.1 – Existing Sewer Infrastructure Assessment

Consultant will assess CCTV video of the previously unsurveyed 2,500 LF of existing gravity mains provided by IRCU. Pipe defects will be recorded utilizing a standardized coding system in accordance with the National Association of Sewer Service Companies (NASSCO) Pipeline Assessment and Certification Program (PACP).

Task 1.2 – Report and Recommendations

Consultant will develop a report identifying and prioritizing deficiencies according to NASSCO standards.

Consultant will evaluate options for correcting the defects within the system, including but not limited to point repairs, joint repairs, lining of existing pipe, and full pipe replacement.

Consultant will make recommendations for improvements to the system based on the findings and will provide an Opinion of Probable Cost (OPC). The design of the recommendations is not included in this contract.

The OPC from the Phase 1 Ixora Park SSES will be appended to include these Phase 2 SSES costs, providing a comprehensive OPC for the full Ixora Park sewer rehabilitation.

The Consultant will provide a draft copy of the report in PDF format to IRCU and will hold a meeting with IRCU to review the results if required. A hard copy and a PDF copy of the final report will be provided to IRCU for a final deliverable.

TASK 2 -PIPE LINING AND LATERAL REHABILITATION

Approximately 4,100 LF of gravity sewer pipe was recommended to be cleaned and lined using cast-in-place pipe (CIPP) and nine laterals on these pipes were recommended for rehabilitation. The pipes recommended to be lined are indicated on **Figure 1**. The Consultant will prepare design specifications for the pipe lining and lateral rehabilitation work to be completed.

The Consultant will prepare one set of bid documents for pipe lining and one set of bid documents for lateral rehabilitation. Consultant will provide up to three (3)

hard copies of each bid package and electronic copies in PDF format for IRCU to advertise.

The Consultant will meet with the awarded contractor(s) for a pre-work meeting. Consultant will make up to four (4) site visits during the lining and lateral rehabilitation process for construction observation.

TASK 3 - FULL SEWER PIPE REPLACEMENT

Task 3.1 - Prepare Design Drawings and Specifications

Consultant will develop construction plans and technical specifications for the gravity sewer pipes recommended for full replacement in the Ixora Park sanitary sewer system using topographic survey previously completed by the Consultant in 2016.

Consultant will prepare 60%, 90%, and final design drawings and specifications. Consultant will attend a review meeting, respond to IRCU comments, and incorporate agreed upon adjustments for the 90% and final sets.

Consultant will provide up to three (3) hard copies of drawings and electronic copies in PDF format.

Consultant will prepare and provide an opinion of probable construction cost (OPC) based on final design documents.

Consultant will apply for a Right-Of-Way permit on behalf of IRCU using the final design documents.

Task 3.2 - Bidding Assistance

Consultant will prepare bid documents for IRCU to advertise. Front-end documents will be prepared and provided by IRCU. Consultant will provide up to three (3) copies of 11x17 drawings and specifications for bidding, and electronic copies in PDF format.

Consultant will provide written responses to contractor requests for information (RFI) related to the bid documents. Consultant will attend pre-bid meeting.

Consultant will review submitted contractor bids and prepare a written award recommendation to IRCU.

ASSUMPTIONS

- Since this work is a direct replacement, permits from FDEP are not anticipated.
- Contractor(s) will obtain any necessary Maintenance of Traffic (MOT).
- Road reconstruction will be limited to the area of full sewer pipe replacement.
- Consultant can work on tasks 2 and 3 concurrently.

ADDITIONAL SERVICES

Any services not specifically provided for in the above scope will be billed as Additional Services and performed at then-current hourly rates. Additional services we can provide include but are not limited to construction phase services.

SCHEDULE

In general, the following schedule is anticipated from Notice to Proceed (NTP):

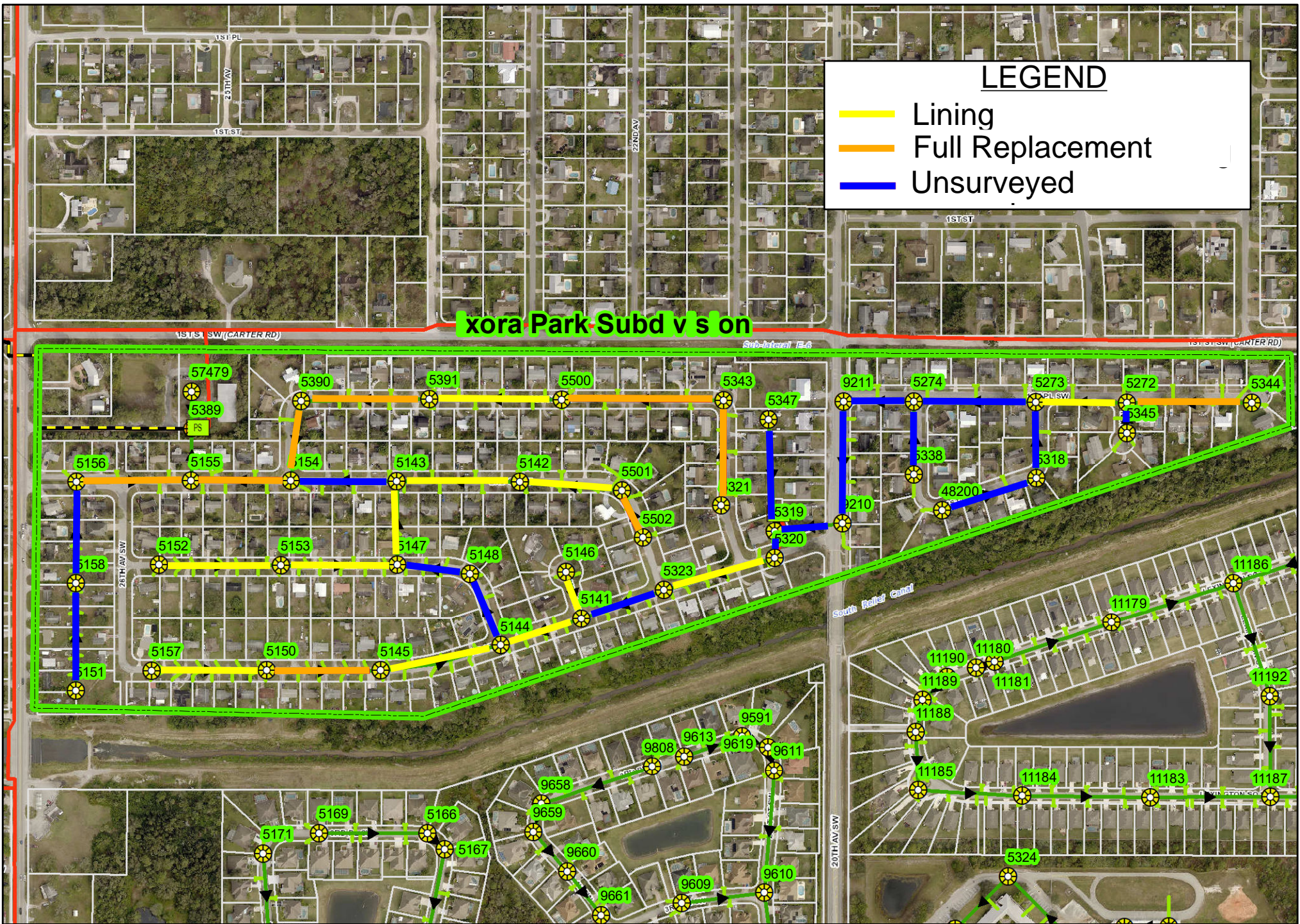
Task 1 PHASE 2 SSES	4 - 8 weeks
Task 2 PIPE LINING AND LATERAL REHABILITATION	8 - 10 weeks
Task 3 FULL SEWER PIPE REPLACEMENT	4 - 6 months

FEE SCHEDULE

We will provide these services in accordance with our Continuing Services Contract Agreement for Professional Services dated April 17th, 2018, with Indian River County.

The Consultant will provide professional services for Tasks 1 and 2 on a lump sum fee basis as follows:

Task No.	Task	Task Fee
TASK 1	PHASE 2 SSES	\$11,889
TASK 2	PIPE LINING AND LATERAL REHABILITATION	\$15,889
TASK 3	FULL SEWER PIPE REPLACEMENT	\$52,441
	TOTAL	\$80,219



LEGEND

- Lining
- Full Replacement
- Unsurveyed



Title
Ixora Park
Existing Gravity Sewer

Legend
XXXX Manhole ID Number
→ Collector, Active
● Standard, Indian River County

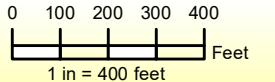


FIGURE 1
Date: 11/14/2018