

**Indian River County, Florida
Department of Utility Services
Board Memorandum**

Date: April 19, 2024

To: Indian River County Board of County Commissioners

Through: John A. Titkanich, Jr., County Administrator
Sean C. Lieske, Director of Utility Services

From: Howard G. Richards, PE, Manager – Capital Projects

Prepared by: Harrison Youngblood, PE, Utilities Engineer

Subject: Utility Work by Highway Contractor Agreement with Florida Department of Transportation for SR5/US-1 from 45th Street to South of 53rd Street
IRCDUS Project ID 41.23.551.03

Background:

The Florida Department of Transportation (FDOT) is planning to resurface, install sidewalk, and rebuild drainage along SR-5 (US-1) from 45th Street to South of 53rd St. The project is to begin in the summer of 2024. The project will require relocation of an existing arial water main crossing over an existing FDOT drainage canal to facilitate construction of the new roadway and sidewalk headwall and drainage.

To eliminate the conflict between the arial water main and the proposed headwall it was deemed necessary to relocate the arial watermain crossing to a subaqueous watermain crossing under the drainage canal. The Indian River County Department of Utility Services (IRCDUS) contracted Rummel, Klepper, & Kahl (RK&K) via Work Order 1 on January 5th, 2024, to provide permitting, design, and bidding assistance for the relocation of approximately fifty-one feet (51'-0") of the existing ductile iron pipe (DIP) potable water main. The project is proposed to resolve conflicts with the FDOT US-1 improvements by redirecting the potable water main below the FDOT drainage canal.

Analysis:

IRCDUS staff has been working with RK&K and FDOT to provide input into the roadway improvements project, more specifically, the county's potable water main crossing an FDOT drainage canal. Staff is of the opinion that the utility work (arial water main relocation to subaqueous watermain crossing FDOT drainage canal) should be performed by the same contractor doing the resurfacing, sidewalk, and drainage construction. Therefore, staff requested FDOT prepare an agreement where the utility work will also be performed by the prospective FDOT contractor.

FDOT has provided the attached Utility Work by Highway Contractor Agreement (UWHCA) for construction of SR-5/US-1 from 45th Street to South of 53rd Street (FDOT Financial Project ID: 448023-1-56-01). FDOT's initial estimate for the cost of the Utility Work is \$30,184.00. The UWHCA requires the amount payable to FDOT plus 2% for incremental costs for the Utility Work, including mobilization of equipment, additional maintenance of traffic, administrative costs of field work, tabulation of quantities, Final Estimate processing and Project accounting; plus 10% for a contingency fund to be used for changes to the Utility Work during the construction. The total estimate from FDOT with a markup of 12% is \$33,806.08.

IRCDUS proposes an additional 20% contingency, or \$6,761.22 based on recent rate of inflation in construction costs borne out on utility relocation work experienced on UWHCA projects with FDOT. This additional contingency would be retained by IRCDUS for the sole purpose of covering cost escalations over and above the FDOT initial cost estimate plus markup. This will bring the total cost to \$40,567.30.

Funding:

Expenses, in the amount of \$40,567.30, for this project are budgeted and available in the Utilities/Water Distribution/UWHC 2024 – Water Distribution account, number 47126936-044699-23551. Utilities operating funds are derived from water and sewer sales.

Description	Account Number	Amount
Utilities/Water Distribution/UWHC 2024 – Water Distribution	47126936-044699-23551	\$40,567.30

Recommendation:

Staff recommends that the Board of County Commissioners approve the Utility Work by Highway Contractor Agreement with Florida Department of Transportation for construction of SR-5/US-1 from 45th Street to South of 53rd Street utilities relocation and the budget of \$40,567.30 with \$33,806.08 payable to Florida Department of Transportation and \$6,761.22 retained by Indian River County Department of Utility Services for cost escalations, and authorize the Department's Director to execute the same. So long as there are no changes in the dollar amount approved by the Board, staff is directed to make payments to Florida Department of Transportation.

Attachment:

1. FDOT- 448023-1 Utility Work by Highway Contractor Agreement.