

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

Date: October 1, 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

Subject: Florida Department of Transportation Utility Work by Highway Contractor Agreement for Utilities Relocation on CR-510/85th Street from 87th Street to West of 82nd Avenue, FDOT Financial Project ID: 405606.8

Descriptions and Conditions:

The Florida Department of Transportation (FDOT) is developing plans to widen County Rd 510 (CR-510)/85th Street between County Rd 512 (CR-512) to 58th Avenue. The CR-510/85th widening is divided into the following four (4) segments identified by the FDOT Financial Project ID:

- CR-512 to 87th Street – 405606.7
- 87th Street to West of 82nd Avenue – 405606.8
- West of 82nd Avenue to Powerline Road – 405606.5, and
- Powerline Road to 58th Avenue – FM#405606.6.

The approximately 5.22 miles of existing two-lane roadway will be widened to a four-lane roadway divided roadway with curb and gutter. The proposed roadway improvements will include drainage structures in the form of curb inlets approximately every 500 linear feet.

Indian River County Department of Utility Services (IRCDUS) owns and operates two large water and wastewater mains within the existing CR-510/85th Street right-of-way (ROW). Specifically, there is a 12-inch PVC force main along the south side and a 16-inch water main along the north side. The force main conveys domestic wastewater from multiple locations including Sebastian River High School, Treasure Coast Elementary, parts of Sebastian and flows generated within the City of Fellsmere. The water main provides potable water to the same locations including Vero Lake Estates, provides looped water service, and is a major transmission main used for fire flow purposes.

The FDOT widening of CR-510/85th Street will require relocation of the IRCDUS water and wastewater mains (utilities) within the ROW which is currently undergoing the design phase. On February 28, 2020, the Indian

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River County Board of County Commissioners (BCC) entered into two (2) separate Utility Design by FDOT Consultant Agreements for design of IRCDUS utilities relocation: 1) CR-512 to West of 82nd Avenue, and 2) West of 82nd Avenue to 58th Avenue.

For the construction phase of CR-510/85th Street widening related to IRCDUS utilities relocation, the BCC approved Utility Work by Highway Contractor Agreement (UWHCA) with FDOT on April 9, 2024, for the segment from CR-512 to 87th Street (Financial Project ID: 405606.7) for the amount of \$2,916,664.80, plus 2% for incremental costs for the Utility Work (\$58,333.30) and 10% contingency fund (\$291,666.48) for a total, including markup, of \$3,266,664.58. The BCC also approved an additional 20% contingency reserve (\$653,332.92) for a total working budget of \$3,919,997.50 for construction of this segment of the FDOT project.

Analysis:

For continuation of the construction phase of CR-510/85th Street widening related to IRCDUS utilities relocation for the segment from 87th Street to West of 82nd Avenue (Financial Project ID: 405606.8), FDOT has provided the attached UWHCA. FDOT's initial estimate of the cost of the Utility Work is \$ 2,772,403.20. The UWHCA requires the amount payable to FDOT plus 2% for incremental costs for the Utility Work (\$55,448.06), 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 (\$277,240.32) to be used for changes to the utility work during the construction. The total estimate from FDOT with 12% markup is \$3,105,091.58.

IRCDUS proposes an additional 20% contingency reserve, or \$621,018.32, based on recent utility relocation work experience on a UWHCA project with FDOT. This additional contingency reserve would be retained by IRCDUS for the sole purpose of covering cost escalations over and above the FDOT initial cost estimate, plus markup. The total working budget for the construction phase of CR-510/85th Street widening, related to utilities relocation from 87th Street to West of 82nd Avenue, is \$3,726,109.90.

Funding:

Expenses, in the amount of \$3,726,109.90, for this project will be recorded in the Utilities/WIP/CR510 Utility Main Relocations account, number 471-169000-20510. Since this is an operating capital project, the funds will come from fund balance. Operating funds are derived from water and sewer sales.

Description	Account Number	Amount
Utilities/WIP/CR510 Utility Main Relocations	471-169000-20510	\$3,726,109.90

Recommendation:

Staff recommends that the Board approve the Utility Work by Highway Contractor Agreement with the Florida Department of Transportation for construction of CR-510/85th Street widening from 87th Street to West of 82nd Avenue utilities relocation, and the budget of \$3,726,109.90 with \$3,105,091.58 payable to

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Florida Department of Transportation and \$621,018.32 retained by Indian River County Department of Utility Services for cost escalations and authorize the Chair to execute the same. So long as there are no changes in the approved dollar amounts, staff is directed to make payments to the Florida Department of Transportation.

Attachments:

Utility Work by Highway Contractor Agreement (UWHCA) at Utility Expense