



INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

Date: April 25, 2017

To: Jason E. Brown, County Administrator

From: Vincent Burke, P.E., Director of Utility Services

Prepared By: Arjuna Weragoda, P.E., Capital Projects Manager

Subject: Relocation Services Of Watermain on 17th Street From US Highway 1 to the 17th Street Causeway Bridge.

DESCRIPTIONS AND CONDITIONS:

Florida Department of Transportation (FDOT) is planning to widen a portion of 17th Street from US Highway 1 to the 17th Street Causeway Bridge. The subject widening is to begin in the summer of 2017. As part of the widening, FDOT is also relocating drainage structures and pipes. The county's existing water main will be in conflict with the proposed roadway improvements and will need to be relocated.

On December 20, 2016, the Indian River County Board of County Commissioners (BCC) adopted Resolution 2016-128, Resolution of the Board of County Commissioners of Indian River County, Florida, with the Florida Department of Transportation Authorizing the Chairman's Execution of a Utility Work By Highway Contractor Agreement for the Relocation Services of Watermain for the Construction of 17th Street From Us Hwy 1 to 17th Street Causeway Bridge.

ANALYSIS:

Indian River County Department of Utility Services (IRCDUS) staff has designed the relocation of the existing 6-inch water main. Due to the complexity of the relocation of the existing water main with the existing and proposed drainage structures and pipes, staff was of the opinion that the subject work be performed by the same contractor doing the roadway improvements for cost savings. The county's initial estimate for the relocation of the watermain was \$63,005.60. The subject estimate was based on an open-cut method and utilizing unit prices from our on-going labor and material contracts. Prior to the letting of the project by FDOT, FDOT's Estimating Division revised the numbers based on recent market prices they had in their database. Their revisions increased the total price to \$147,196.00. The bids opened April 7, 2017, and the lowest responsive and responsible bidders' price for the utility relocation was \$201,997.04, which is 37% higher than FDOT's estimate. Therefore, staff evaluated an alternative method via directional bore to relocate the existing watermain and priced it based on the unit prices from the labor contract.

Staff decided the most cost efficient and timely method to relocate the existing watermain was to utilize the IRCDUS labor contractor, Blue Goose Construction. A list of the anticipated material quantities was prepared and bid prices from the Blue Goose Construction contract was used to calculate the labor expense. The total material cost was based on unit prices derived from the Annual Contract for Utility Warehouse Stock, where the county will realize a 7% savings on the material by Owner Direct Purchase. The total labor cost estimate for Blue Goose Construction is \$109,457.92 (See Attachment 2). The total construction labor cost including the material cost is therefore \$129,627.37.

Since the relocation of the existing watermain will be performed by IRCUS's labor contractor and not under the Utility Work by Highway Contractor Agreement, the funds that were deposited into the State Transportation Trust Fund on February 8, 2017 now will be refunded.

FUNDING:

Funding for the water main relocation is available in the Renewal and Replacement budget in the operating fund. The operating fund budget is derived from water and sewer revenues.

Description	Account Number	Amount
17 th Street Water Main Relocation	47123536-044699-17506	\$129,627.37

RECOMMENDATION:

Staff recommends that the BCC approve the relocation of the existing watermain totaling \$129,627.37 by approving Work Authorization No. 2017-005 with Blue Goose Construction for \$109,457.92 and by authorizing staff to directly purchase materials totaling \$20,169.45.

ATTACHMENT(s):

1. Work Authorization No. 2017-005
2. Blue Goose Quotation