



**INDIAN RIVER COUNTY, FLORIDA
DEPARTMENT OF UTILITY SERVICES**

Date: August 3, 2018
To: Jason E. Brown, County Administrator
From: Vincent Burke, P.E., Director of Utility Services
Prepared By: John M. Boyer, P.E., Utilities Engineer
Subject: 2018-047: US 1 Air Release Valve and 24" Force Main Replacement
 Change Order #1: Add Second Air Release Valve

DESCRIPTIONS AND CONDITIONS:

On May 1, 2018, the Board of County Commissioners (BCC) approved an agreement with contractor Johnson Davis, Inc., (Johnson Davis) to replace an air release valve (ARV) and a portion of the 24" diameter force main at 10595 US Highway 1 near Sebastian. In the time since, County staff discovered a second ARV, located at 10205 US Highway 1, to be leaking and in need of immediate replacement.

In addition, staff determined that the temporary 8-inch diameter by-pass force main should be increased to 12-inch diameter. A work change directive to increase the by-pass diameter to 12-inches was issued to Johnson Davis on July 30, 2018. It was also determined that an isolation valve is necessary on the 24-inch force main, and this construction project is an opportunity for installation.

ANALYSIS:

The scope of work related to replacing the second ARV is very similar to the original scope of work. The most efficient way to replace the second ARV will be to have Johnson Davis perform the work under a change order. This will approximately double the cost of the contract, from \$124,000 to \$252,658.00. This includes the cost of the 12-inch temporary by-pass force main.

The IRCDUS warehouse will direct-purchase the 24-inch diameter gate valve at a cost of \$14,976.60 for installation by Johnson Davis. The total cost of the project will thus increase to \$267,634.60.

FUNDING:

Funding for this project is derived from the Replacement and Renewal (R&R) budget in the operating fund. The operating fund budget is derived from water and sewer sales.

ACCOUNT NAME	ACCOUNT NUMBER	AMOUNT
US 1 Air Release Valve and 24" Force Main Replacement	47123536-044699-18516	\$267,634.60

(continued)

RECOMMENDATION:

Staff recommends that the Board of County Commissioners approve Change Order No. 1 to authorize Johnson Davis, Inc. to increase the temporary by-pass force mains from 8-inches diameter to 12-inches diameter, to replace a second air release valve located at 10205 US Highway 1 and authorize staff to direct-purchase a 24" diameter gate valve. The total project cost will increase to \$267,634.60.

ATTACHMENT(s):

1. Change Order No. 1
2. Johnson Davis, Inc. Proposal