



Interoffice Memorandum

April 24, 2019

To: Mayor Jerry L. Demings  
and the Board of County Commissioners

From: Carrie Mathes, Manager, Procurement Division

Contact: Troy Layton, Manager, Field Services Division  
407-254-9880

Subject: Ratification of PO M95940, Emergency Repair for 36-Inch Force  
Main Failure

ACTION REQUESTED:

Ratification of PO M95940, Emergency Repair for 36-Inch Force Main Failure, with Prime Construction Group, Inc., for a not to exceed amount of \$1,500,000.

PROCUREMENT:

The project provides for the emergency repair of a 36-inch pressurized force main discharging from Pump Station #3995.

FUNDING:

Funding is available in account number 4420-038-1347-3843.

APPROVALS:

The Field Services Division concurs with this recommendation.

REMARKS:

Orange County Utilities (OCU) provides wastewater service to the Universal Area adjacent to the Convention Center. OCU has a master pump station that transmits flow from the region to our South Water Reclamation Facility via 36-inch and 42-inch pipes with the approximate age of 30 years. Over the past years, and in coordination of development projects within this area, pipes are being replaced using current standards for pipe material (PVC) on pressurized force mains. However, the majority of the piping network in this section is Precast Concrete Cylinder Pipe (PCCP) with no history of breaks. In previous years where pipe was removed, the pipe was of sound condition. However, this particular segment started leaking sewage at a significant rate with an unknown cause.

OCU has stabilized the area with rock and bermed the area to pumped sewage back to the master pump station to mitigate the sanitary sewer overflow. Field Services has staff stationed at the site to monitor the impacted area and to coordinate private tankers that are being utilized to help maintain the flow at the station. The emergency repair requires multiple line stops due to the lack of valves in the vicinity of the failure. Further, bypass piping will be required to maintain service to the master pump station.

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Finally, the failed section PCCP pipe will be removed and replaced with 36-inch PVC with an unknown length because additional excavation may propagate the fracture.

The cost of the project includes specialized pipe, unknown repair length, and the possibility of other unknown underground conditions. This will require custom-made fittings that are not readily available, custom sleeves for taps to install line stops, and valves in order to control the flow. Once the Contractor controls the flow, the pipe can be exposed to determine the extent of the repair needed.

It was critical to expedite this repair due to the safety issues of the existing failure, possible fines due to sanitary sewer overflow, and risk of damage worsening. Failure to have this work performed immediately would result in safety risk to the public, environment and additional costs to the County. Therefore, this project was procured via emergency procedures.

The Purchase Order was issued to Prime Construction Group, a full service underground contractor that has successfully performed multiple pipeline repair and replacement projects with Orange County Utilities. They had the ability to mobilize immediately, have familiarity with soliciting custom-made parts that will be required for this work, and have experience working on emergency projects. Pricing for these services will be based on times and materials to be negotiated by the County.