

# Item Details

**Legistar # 18-0043**

<b>Professional Services Contract – Repairs on Marina Breakwater at McGee Beach (Capital Improvement Program)</b>	
<b><u>Council Meeting Dates:</u></b> Future Item – February 27, 2018 Action Item - March 20, 2018	<b><u>Item Being Considered:</u></b> Motion

## **RECOMMENDATION:**

Authorization to execute professional services contract with Lockwood, Andrews & Newnam, Inc. of Corpus Christi, Texas in the amount of \$249,215 for design, survey, bid and construction phase services.

## **SUMMARY:**

The City's breakwater is a large stone structure that extends approximately one mile around the Marina. The southern end is connected to the shore at the McGee Beach Pier structure with the northern end open to allow navigation to the marina. The southernmost section includes a concrete cap that extends from the pier to the north approximately 1,800 Linear Feet (LF). The breakwater is designed to reduce wave energies to the marina facilities and the vessels stored and navigating within the marina channels. The breakwater also dissipates wave energy to the seawall. The breakwater was constructed in the 1920's and is experiencing severe structural degradation due to age and the harsh environment.

The project provides for improvements to the 1,800 LF southernmost section and is based on preliminary engineering assessments and recommendations from HDR Engineering that included:

- Repair/replace entire 1,800 LF concrete cap along existing rock breakwater;
- Construct/place rock ballast (smaller stones) to fill gaps between larger stones and to provide a base for the new concrete cap;
- Possible improvement of water quality within marina by installing culverts through the breakwater and/or improving existing water exchange.

This professional services contract provides for the design, bid and construction phase service including:

- Bathymetric and topographic surveying;
- Determining permitting requirements;
- Investigate water quality improvements within the Marina during the Preliminary Engineering phase; include improvements in the final design if appropriate;
- Detailed structural analysis and design of the breakwater, accounting for local tides, wind, waves, and currents, to determine the required gradation of the rubble for the breakwater rehabilitation;
- Design new breakwater cap, considering wave loads on a wider/higher cap;
- Preparation of the construction documents for the Marina Breakwater repairs;
- Prepare opinion of probable construction costs, plans, and specifications as needed for a bid package;
- Bid Phase services – pre-bid and bid-opening meetings, responding to questions, preparing contract addenda, evaluation of bids, prepare bid tabulations, and provide a letter of recommendation for selected bidder;
- Construction Phase services – pre-construction meeting, assisting with change orders and requests for information, reviewing submittals, and limited construction observation services.

**PREVIOUS COUNCIL / BOARD ACTIONS:**

Approved by Corpus Christi Business and Job Development Corporation (Type A Board) on February 19, 2018