Legislation Text

File #: 17-803, **Version:** 1

TO: **Mayor and Commissioners**
FROM: **Caryn Gardner-Young, Assistant City Manager**
THROUGH: **Chief Neal de Jesus, Interim City Manager**
DATE: **October 17, 2017**

SERVICE AUTHORIZATION NO. 17-01 WITH CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC. IN AN AMOUNT NOT-TO-EXCEED $198,473 FOR THE SEAWALL VULNERABILITY ANALYSIS.

Recommended Action:
Motion to Approve Service Authorization No. 17-01 to CB&I Environmental & Infrastructure, Inc. (CBI) in the amount not-to-exceed $198,473 for the Seawall Vulnerability Analysis (Project No. 17-048).

Background:
The City of Delray Beach's cost to properly maintain the existing seawall with the City limits increases as the flooding occurrences to higher high tides increases annually. City streets, parks and other facilities are inundated seasonally during these tidal occurrences. As other coastal Florida communities have addressed these tidal impacts, the City of Delray Beach will perform the analysis below to determine the best path forward to protect the City and its citizen's properties. The Seawall Vulnerability Analysis recommendations will contribute to the City's Strategic Plan by determining the most effective path to protect the city's infrastructure from rising tidal impacts. The proposed costs and project component's schedule will be folded into the Capital Improvement Plan (CIP).

The goal of the Seawall Vulnerability Analysis is to assess the ability of the existing seawalls to protect the City of Delray's infrastructure and its citizen's property from higher High Tides. The First Phase is a survey of all the seawalls in the city limits determining ownership, type, elevation and condition of the each seawall. An additional component of the survey will included an investigation of the approximately 150 drainage pipes that connect the city to the Intracoastal Waterway. These pipes act as conduits for tidal waters during extreme High Tides causing intra-coastal waters to back up onto city streets causing flooding. An assessment/ survey of the pipes is required to determine type, size and condition and associated inlet elevations to design the proper check valves, flap-gates or duckbill to prevent or reduce tidal backflow out the catch-basins and onto the city's streets. Also included in the first phase is to establish seawall height increase for a given duration/ project life.

The Second Phase is to determine the most cost effective way the privately owned seawalls will be raised. The proposed options will include but are not limited to adoption of an ordinance requiring a given height, established in Phase 1, giving citizens an allotted time to raise their own seawalls; or levy an assessment by the City along with easements allowing the city to perform the task of contracting and raising the seawalls.

On April 14, 2017, the City advertised a Request for Qualifications No. 2017-048 for Continuing Engineering, Surveying, and Landscaping Architectural Consulting Services. The City utilizes the approved engineering consultants retained through RFQ No. 2017-48. The Agreement terms are five years from August 1, 2017 through July 31, 20 May 23, 2020 with one, two-year option to renew. The original agreement with the Consultants was approved on September 2, 2017.

This motion is in accordance with City Code of Ordinance No. 21-17.

City Attorney Review:
Approved as to form and legal sufficiency.

Finance Department Review:
Finance recommends approval.

Funding Source:
Funding Account Number 448-38-300-538.31-90. Funding will be provided from fund surplus and budgeted at the next budget amendment.