



AGENDA MEMORANDUM

Action Item for the City Council Meeting of September 17, 2019

DATE: September 9, 2019

TO: Peter Zaroni, City Manager

THRU: Mark Van Vleck, Assistant City Manager
markvv@cctexas.com
(361) 826-3082

FROM: Jeff H. Edmonds, P. E., Director of Engineering Services
jeffreye@cctexas.com
(361) 826-3851

<p style="text-align: center;"><u>Professional Services Contract Amendment</u> North Beach Coastal Protection</p>

CAPTION:

Motion awarding Amendment 1 to a contract with Mott MacDonald, LLC in the amount of \$224,862 for a total restated fee of \$247,362 to provide engineering and design services for assistance with the North Beach Coastal Protection project, effective upon issuance of notice to proceed, with funding available in Bond 2018, Proposition A. City Council District 1

SUMMARY:

To approve an amendment to the professional services contract with Mott MacDonald, LLC., to develop the concepts and permitting requirements for a new breakwater structure to protect the North Beach shoreline.

This item was presented to City Council and tabled on August 27, 2019. Attached to this item is the breakdown of Scope of Work for each consultant. Mott MacDonald, LLC. will be using the information obtained by Lloyd Engineering to perform their work.

BACKGROUND AND FINDINGS:

Beginning in late 2016 through early 2018, the Planning & ESI Department led an initiative to reevaluate the development plan for North Beach in light of the realignment of the Harbor Bridge and associated freeway system. On March 27, 2018 City Council adopted an ordinance incorporating the North Beach Redevelopment Initiative into the Comprehensive Plan. The North Beach Redevelopment Initiative included two redevelopment alternative concepts. Alternative 2 included breakwater islands east of the existing beach.

On April 24, 2018, City Council established a North Beach Infrastructure Task Force to assist the City with implementation of redevelopment plans for the North Beach area. The Redevelopment Plan for North Beach included a list of thirty-three (33) potential Capital Improvement Projects. Four of the projects were prioritized for inclusion on Bond 2018. The four projects included on Bond 2018 Proposition A are as follows:

- Beach Avenue (E. Causeway Blvd to Gulfbreeze Blvd)
- N. Beach Area Primary Access (Beach to Timon)
- N. Beach Gulf Spray Avenue Pedestrian/Bike Access
- **N. Beach Coastal Protection**

The North Beach Coastal Protection project proposes new breakwater structures to provide wave attenuation and erosion protection for the North Beach coastline. The breakwater structure concept is to construct island features that will create new natural habitats as well as provide wave sheltering.

This coastal protection project will require extensive stakeholder coordination and permitting through the United States Army Corps of Engineers (USACE). The initial engineering contract was a small agreement to complete a feasibility study to better define the scope of the proposed breakwater structure, identify permitting requirements and develop cost estimates.

This amendment provides the preliminary engineering that is required for project permitting. The following is a summary of the proposed tasks:

1. Project review and data collection to verify project scope and objectives
2. Coastal engineering, modeling and alternative analysis that reflect current conditions of the project site including:
 - a. Analysis of water elevations
 - b. Wind generated waves
 - c. Passing vessel pressure effects
 - d. Tidal flows and circulation
 - e. Resulting tide, wind and storm impacts on project area
3. Preliminary design including:
 - a. Basis of Design technical memorandum
 - b. Preliminary design level drawings compliant with design criteria
4. Regulatory coordination including:
 - a. Coordination with the USACE
 - b. Any supporting documentation developed for USACE coordination
5. Design coordination with Lloyd Engineering, a firm that the Rachel Foundation hired to complete the geotechnical investigations for the proposed breakwater structure.

Competitive Solicitation Process

Mott McDonald was selected for this project in May 2019 under RFQ 2019-01. The selection committee with representatives from Planning and Engineering Services, recommend Mott McDonald as most qualified based five factors: 1) experience of the firm, 2) experience of the key personnel with specific experience with Port of Corpus Christi Ship Channel projects and numerous other coastal structures, 3) project approach and management plan, 4) capacity to meet the project requirements and timelines, and 5) past performance.

ALTERNATIVES:

Exercising this amendment is the logical next step moving towards implementation of the North Beach Breakwater concept. The alternative would be to cancel the project.

FISCAL IMPACT:

This project was approved and budgeted as part of Street Bond 2018 Part 1 and is part of the Comprehensive Plan and Redevelopment Plan for the North Beach Area. The Amendment 1, in the amount of \$224,862, with a restated fee of \$247,362, is budgeted in the FY 19 and FY 20 Capital Improvement Program budgets.

Funding Detail:

Fund: Street 2019 Bond 2018 Part 1 (Fund 3556)
Project No.: 18163A
Account: Outside Consultants 550950
Activity: 18163-A-3556-EXP

RECOMMENDATION:

City staff recommends approval of the Professional Services Contract Amendment 1 to Mott McDonald, LLC. for the North Beach Coastal Protection project in the amount of \$224,862 for a total restated fee of \$247,362 to provide the engineering services to develop the preliminary design and permitting requirements for a new breakwater structure.

LIST OF SUPPORTING DOCUMENTS:

Location Map
Presentation
Amendment No. 1