



AGENDA MEMORANDUM
Corpus Christi Business & Job Development Corporation Meeting May 16, 2016

DATE: May 12, 2016

TO: President and Honorable Board Members,
Corpus Christi Business and Job Development Corporation

THROUGH: Ronald L. Olson, City Manager

THRU: Margie C. Rose, Deputy City Manager
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FROM: Valerie H. Gray, P.E., Executive Director, Public Works
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Recommend Approval of Engineering Contract with HDR Engineering, Inc.

CAPTION:

Motion recommending approval of an engineering contract with HDR Engineering, Inc. in the amount of \$28,651 to provide a feasibility assessment for dredging the southern portion of the downtown marina to improve boat access to the new 'R' Pier south of the Cooper's Alley L-Head with the possibility of beneficial placement of dredged material on McGee Beach.

PURPOSE:

To approve the authorization of Type A Board funds for an engineering contract with HDR Engineering, Inc. and recommend City Council approve the contract.

BACKGROUND AND FINDINGS:

This agreement is needed to provide a feasibility assessment for dredging the southern portion of the downtown marina to improve boat access to the new 'R' Pier south of the Cooper's Alley L-Head. The assessment will consider the possibility of beneficial placement of the dredged material to nourish McGee Beach. The project tasks required are listed below.

- Participate in a kickoff meeting and project site visit with City staff to review project goals and observe the general condition of the proposed dredging area and adjacent improvements that could potentially be impacted by dredging.

- Perform limited field data collection consisting of a bathymetric survey, a gradiometer survey, and bottom probing within the southern portion of the marina adjacent to the R Pier. This data will be applied to develop a conceptual dredging template, help identify dredging hazards or obstructions, and characterize the general composition of bottom sediments for development of a more detailed geotechnical plan.
- Based on results of the field investigation, HDR will develop recommendations for sediment sampling, laboratory testing (e.g. sieve analyses and analytical testing), and geotechnical analyses to be performed by a third party under direct contract with the City.
- Based on the City's project goals and review of the collected field data (including the geotechnical data provided by the City), HDR will provide recommendations for dredging locations and depth, as well as possible placement locations such as McGee Beach. Once a conceptual dredging template has been developed and possible dredge material placement locations have been identified, HDR will develop an estimate of the required dredging volume and prepare a conceptual-level opinion of probable construction cost (OPCC). HDR will also develop a project execution timeline.
- Results of the field data collection and conceptual-level engineering analyses described above will be summarized in a technical memorandum. The technical memorandum will include a brief discussion on regulatory and permitting considerations, as well as recommendation for any additional data collection that would be required prior to detailed design. The memorandum will be submitted to the City for review prior to being finalized. In addition, HDR would participate in a meeting with City staff to review the results.

It should be noted that this effort does not include numerical modeling, detailed environmental and regulatory review, or other items that might typically be associated with detailed engineering or design. Also, the geotechnical and sediment analytical sampling, testing, and analysis will be required in order for HDR to provide placement recommendations for the dredged material. HDR will assist the City with development of a sampling and testing plan to be executed by a third party under direct contract with the City. Results will be provided to HDR for HDR's use in developing dredged material placement recommendations.

ALTERNATIVES:

Not applicable.

OTHER CONSIDERATIONS:

If future dredged material placement recommendations support placement of material on McGee Beach, the City will discuss the possibility of entering into an Interlocal Agreement with the Texas General Land Office (TGLO) to assist with matching funds for the design and construction of the beach nourishment project.

CONFORMITY TO CITY POLICY:

Conforms to requirements of the Corpus Christi Business and Job Development Board for appropriation and use of Type A funds for seawall maintenance.

DEPARTMENTAL CLEARANCES:

None

FINANCIAL IMPACT:☐ Operating☐ Revenue☐ Capital☒ Other

Fiscal Year: 2015-2016	Project to Date Expenditures (CIP only)	Current Year	Future Years	TOTALS
Line Item Budget		30,650		30,650
This Item		28,650		28,650
Future Expenditures		2,000		2,000
BALANCE		0.00		0.00

Fund(s): Type A Board Seawall Maintenance Fund

Comments: If this item is recommended for approval, it will be scheduled for presentation to the City Council at the May 31, 2016 meeting.

RECOMMENDATION:

City Staff recommends approval of the attached proposal for the cursory-level assessment for dredging the marina at R-Pier.

LIST OF SUPPORTING DOCUMENTS:

Budget
Contract
Location Map
Presentation