



AGENDA MEMORANDUM

April 15, 2019

Corpus Christi Business and Job Development Board Meeting

DATE: April 8, 2019

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

THROUGH: Keith Selman, Interim City Manager

FROM: J.H. Edmonds, P.E., Director of Engineering Services
JeffreyE@cctexas.com
(361) 826-3500

UPDATE

Engineering Services Monthly Project Update

STAFF PRESENTER(S):

<u>Name</u>	<u>Title/Position</u>	<u>Department</u>
1. Jeff H. Edmonds, P.E.	Director	Engineering Services

OUTSIDE PRESENTER(S):

None.

BACKGROUND:

The current active projects are listed below with the monthly activity shown.

PROGRESS FROM PREVIOUS MEETING:

1. McGee Beach Nourishment/Boat Basin Dredging and Repairs on Marina Breakwater at McGee Beach – USACE permits submitted; revisions required for the breakwater repair and dredging permit. Coordination with POCCA and USACE to secure a DMPA site underway.
2. Floodwall Upgrades at Science Museum and USACE Building – Small contract anticipated to be executed in April 2019, with a large contract to follow.
3. Seawall Capital Repairs – Design nearing completion. Anticipate summer 2019 construction contract letting.
4. Salt Flats Levee Improvements – Contract negotiations anticipated to start in April 2019.
5. Kinney and Power Street Pump Station Improvements – Recommendations review meeting planned for June 2019.
6. Restoration of SEA District Water Features – Design contract will be reconsidered by City Council in April 2019.
7. Comprehensive Feasibility Study for Seawall CIP - Contract negotiations anticipated to start in April/May 2019.

PROJECT SUMMARIES:

1. Salt Flats Levee Project/ FEMA Mapping:

- Task Order No. 2 - LLPT Participation/Flood Protection System Vulnerabilities Identification:
 - Original scope of work was completed.
 - Additional issues related to the Salt Flats Levee vulnerabilities, such as erosion to the Salt Flats Levee channel that occurred at the location of the Broadway Wastewater Treatment Plant bypass pumping outfall, being addressed through this Task Order.

2. McGee Beach Nourishment/ Boat Basin Dredging Project (Design):

- Engineering Services Staff met with Marina staff to discuss the need for dredging within the Marina.
- Recommendation made to amend the “Repair on Marina Breakwater at McGee Beach” project to include dredging in the Marina.
 - Starting with a new contract will make the project easier to track, since these are separate CIP projects, yet still allows for a more economic and cost-efficient execution of the projects by incorporating the dredging tasks into the plan set with the breakwater repairs.
- Design contract approved by the Type A Board in August 2018.
- Design contract approved by City Council in September 2018.
- Project team coordinated with USACE regarding required permitting on 10/18/18.
- 60% Design submitted for City review on 10/24/18.
- 100% Design submittal delayed - schedule modified to allow time to secure a DMPA site (see discussion below) prior to finalizing the bid documents.
- Scope/budget summary provided with the February update.
 - Plan to bid project with a Base Bid and Additive Alternates.
 - Additive Alternates will only be awarded if funding is available.
 - Project Construction Budget = \$1,050,196
 - Base Bid Construction Estimate = \$1,125,000
 - Additive Alternate Construction Estimate = \$2,977,400
- There is not enough “beach quality” dredge material in the Marina Basin to nourish McGee Beach. All dredged material will be disposed of in another location.
- March 2019 – Amendment Notification Letter submitted to USACE for Modification to Existing McGee Beach Placement Permit.
- City staff and Consultant working with the Port of Corpus Christi Authority (POCCA) to secure a Dredge Material Placement Area (DMPA) for the material being removed from the Marina basin.
 - The traditional DMPA’s (located closest to the site) are not available due to upcoming dredging projects by the POCCA and USACE.
 - Traditional DMPA’s are enclosed on all sides with a levee system.
 - A non-traditional DMPA site is available that might have capacity for both the base and alternate bid quantities. However, the site has not been surveyed in some time and the POCCA is unsure how much capacity is there within the existing partial levee system.
 - This site is only enclosed on 3 sides and sheet flows to the south.
 - Prior to the City placing material, the POCCA requires that the City perform a survey and prepare a placement plan for their review and acceptance along with a Sampling and Analysis Plan (SAP).

- Some Geotechnical work may be required to confirm that tracked equipment can be used and the existing soil can support this equipment.
- Depending on the existing levee heights and the amount of material to be placed, a stability analysis might be needed to ensure the levees have adequate stability to support increased soil height behind the levees.
- Securing an area in advance of Construction ensures the project can be completed (i.e. the Contractor will have a place to take the dredged material). Not securing a DMPA could result in the dredging portion of the project being deferred to a later date.
- Securing a DMPA site will require an agreement between POCCA and/or USACE and the City, and payment of 90% of the estimated fees up front. Agreements are site dependent.

3. Repair on Marina Breakwater at McGee Beach (Design):

- Design contract approved by the Type A Board in February 2018.
- Design contract approved by City Council in March 2018
- Project Kick-off Meeting held on 04/09/18.
- Recommendation made to amend the Repair on Marina Breakwater at McGee Beach project to include dredging in the Marina.
 - Nourishment/Dredging tasks incorporated into this project, but approved through a separate, new contract instead of amending the Breakwater contract. This will make the project easier to track, since these are separate CIP projects, yet still allows for a more economic and cost-efficient execution of the projects by incorporating the dredging tasks into the plan set with the breakwater repairs.
 - Nourishment/Dredging design contract approved by the Type A Board in August 2018.
 - Design contract approved by City Council in September 2018.
- Project team coordinated with USACE regarding required permitting on 10/18/18.
- 60% Design submitted for City review on 10/24/18.
- 100% Design submittal delayed - schedule modified to allow time to secure a DMPA site (see discussion for the McGee Beach Nourishment/ Boat Basin Dredging Project) prior to finalizing the bid documents.
- Permit application submitted to USACE on March 4, 2019.
 - Response from USACE on April 2, 2019 will require some revisions to the submitted application. Revisions in progress by the consultant.

4. Floodwall Upgrades at Science Museum and USACE Building (Contract Negotiations):

- Provides a new floodwall (or a coastal structure) that extends from the Promenade under the Harbor Bridge to the USACE Bulkhead, with backfill in the triangular area between the new wall and existing wall location.
- Selected AE consultant (HDR) requested revisions to contractual provisions. Selected consultant could not come to terms with City standard contract language.
- Project has been re-RFQ'd, and a new consultant will be selected.
 - Jacobs Engineering Group, Inc. selected as the new consultant on February 14, 2019.
 - Contract negotiations anticipated to be initiated in March 2019.
- The project scope may be expanded to include the area in front of the USACE building.
- City and POCCA staff continue coordination efforts regarding proposed location of floodwall on POCCA owned property.
 - Meeting scheduled with POCCA on 02/08/19 to discuss their new building and coordinating with this project.

- City anticipates executing a small contract with Jacobs to get the project started. A large contract amendment will follow for the full design and construction phase services.
 - Large contract amendment will need to be approved by the Type A Board and City Council.

5. Seawall Capital Repairs (Design):

- Consultant inspected Seawall to determine required repairs.
- Presented inspection findings to the Type A Board at the April 2018 meeting.
- Design contract with Munoz Engineering for required repairs approved by the Type A Board and City Council in October 2018.
- 60% Design submitted for City review on 01/07/19.
- Anticipated schedule is to bid the plans starting in July/August 2019, with construction starting in late fall 2019.

6. Salt Flats Levee Improvements (Contract Negotiations):

- Selected AE consultant (HDR) requested revisions to contractual provisions. Selected consultant could not come to terms with City standard contract language.
- Project has been re-RFQ'd, and a new consultant will be selected.
 - Govind Development, LLC selected as the new consultant on February 14, 2019.
 - Contract negotiations anticipated to be initiated in March/April 2019.

7. Kinney and Power Street Pump Station Improvements (System Assessment):

- This project evaluates the capacity of the existing 2 pump stations to determine the feasibility of interim solutions to maximize the capacity at the Kinney and Power Street Pump Stations before a major investment for a potential third pump station.
- Urban Engineering was the AE Selected through the RFQ process to assess the existing pump stations, determine if any improvements can be made, and prepare cost/benefit analysis for any recommended improvements.
- Professional services contract approved by the Type A Board in August 2018.
- Professional services contract approved by City Council in September 2018.
- System assessment underway.
- Initial Assessment and Improvements Presentation Meeting planned for June 2019.

8. Restoration of SEA District Water Features (Approval Process):

- This project will restore the SEA District water features (Water Garden Fountain and Bayfront Fountain) by correcting electrical, mechanical and other problems to restore the maintenance and operability of both features.
- Design contract negotiated; approved by the Type A Board in December 2018.
- Design contract scheduled for City Council review and approval (second reading) on February 12, 2019.
- Contract on hold. Reviewing temporary options that will work with the long-term solution.
 - Anticipate contract will be brought back to City Council in April 2019.

9. Comprehensive Feasibility Study for Seawall (Contract Negotiations):

- This project will identify project needs and prioritization to develop a strategic short and long-term Capital Improvement Plan (CIP). The last effort to develop a comprehensive CIP for Type A projects was completed 10 years ago. The selected firm will conduct workshops with stakeholders, and deliverables will include project descriptions and budgetary cost estimates for all selected projects.
- HDR Engineering, Inc. selected as the consultant on February 14, 2019.
- Contract negotiations anticipated to be initiated in April/May 2019.

ATTACHMENTS:

None