

Engineering Services – Quarterly Update



Type A Board
Presentation
January 11th, 2021

2021 Approved Seawall CIP Projects

PUBLIC HEALTH & SAFETY SHORT-RANGE CIP		As of April 2020	Funding Programed for FY 20-21	Funding Programed for FY 21-22	Funding Programed for FY 22-23	Short-Range FY21-23
Project #	Project Name	Encumbrances & Remaining Budget	Year 1	Year 2	Year 3	TOTALS

Seawall

21126	Art Center Repairs		750,000	2,000,000		2,750,000
21124	Art Museum Improvements		500,000	1,000,000		1,500,000
E10119	Comprehensive Feasibility Study for Seawall	257,500	458,000	2,500,000		2,958,000
E16319	Floodwall Upgrades at Science Museum	904,750	1,000,000	8,000,000	3,500,000	12,500,000
E16320	Kinney & Power Street Pump Station Improvements		500,000	1,800,000	3,000,000	5,300,000
E16321	McGee Beach Nourishment / Boat Basin Dredging		1,200,000	3,500,000		4,700,000
21130	New McGee Breakwater		100,000			100,000
E16318	Phase 1 Breakwater Repairs (McGee Beach)		2,900,000	1,000,000		3,900,000
E17117	Salt Flats Levee Improvements		2,800,000			2,800,000
21127	SEA District Water Feature-Shoreline Fountain		2,000,000			2,000,000
E17041	Seawall Capital Repairs	991,600	1,500,000	200,000	1,000,000	2,700,000

2021 Approved Marina Projects

MARINA FISCAL YEAR 2021 CIP PROGRAM SHORT-RANGE

MARINA SHORT-RANGE CIP		As of April 2020	Funding Programed for FY 20-21	Funding Programed for FY 21-22	Funding Programed for FY 22-23	Short-Range FY21-23
Project #	Project Name	Encumbrances & Remaining Budget	Year 1	Year 2	Year 3	TOTALS
21028	Boat Haul Out/Office/Retail Facility		500,000	8,305,000		8,805,000
21032	Landscaping and Irrigation Rehab			4,000	58,500	62,500
21025	New Coopers Boaters Facility		275,000	3,978,000		4,253,000
21027	New Peoples Boardwalk			264,000	2,561,000	2,825,000
21021	Replace Peoples Boater Facility Roof		125,000			125,000
21026	Replace Piers ABCDL			960,000	14,040,000	15,000,000
21024	Upgrade Marina WIFI				218,750	218,750
MARINA SHORT-RANGE TOTAL		-	900,000	13,511,000	16,878,250	31,289,250

MARINA AVAILABLE FUNDING		As of April 2020	Funding Programed for FY 20-21	Funding Programed for FY 21-22	Funding Programed for FY 22-23	Short-Range FY21-23
	Revenue Source	Encumbrances & Remaining Budget	Year 1	Year 2	Year 3	TOTALS
	Marina Fund Reserve		125,000	4,000	277,250	406,250
	Type A/B Sales Tax		775,000	13,507,000	16,601,000	30,883,000
MARINA FUNDING TOTAL:		-	900,000	13,511,000	16,878,250	31,289,250



Current Projects:

Art Center and Art Museum Repairs and Improvements

- **Project scope:** This project will replace existing HVAC system, electrical gear, as well as, several other repairs to roof, plumbing, exterior and interior structure as needed.
- **Current status:** The needed repairs and improvements will be broken into multiple procurements. Asset Management plans to address some elements of the scope with on-call maintenance contracts. Other elements will be contracted using the City's FMAC contractors. All work should be contracted in FY2021.
- **Budget:** \$ 2,750,000 for Art Center
\$1,500,000 for Art Museum





Current Projects:

Comprehensive Feasibility Study for Seawall

- **Project scope:** Perform feasibility studies and cost estimate for projects recommended to be considered for inclusion in the Seawall CIP.
- **Current status:** Draft reports received. Summary of findings on next 6 pages. OPCC's are preliminary and may change as design progresses.
- **Current Budget:** \$250,000
- **Design Contract Approved by Type A:** Dec 2019
- **Design Contract Approved by City Council:** Jan 2020
- **Estimated Project Completion:** January 2021

Type A Seawall CIP Project Nomination One Sheet Per Project	
1. Proposed Project Location:	2. *Project Title:
3. *Requesting Department:	4. *Date Requested:
5. Estimated Cost (if known): \$	6. Is there a matching grant or matching funds option?
7. Project Objective:	
8. Project Justification:	
9. Statement of Work (SOW)	
a. General Description of Required Work:	
b. User Requirements (features, capacity, compatibility, interoperability, quality, "must do's"):	
c. Project Constraints (project boundaries, interfaces, "must not do's," schedule constraints):	
10. Is there a Required Completion Date (due to funding requirements):	
11. Internal Stakeholders (Operating Departments):	

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Current Projects:

Comprehensive Feasibility Study for Seawall – Task Order 1

TO 1 – New Boat Haul Out/Office/Retail Facilities

- **Project Scope:** Construction of a replacement Boat Haul-Out to include maintenance, shop, storage, staff support, and vendor work areas on the first floor, with administration, support, and retail opportunities on the second floor.
- **Current Project Status:** The project is currently being solicited for professional engineering design services.
- **OPCC:** \$6,208,200.00





Current Projects:

Comprehensive Feasibility Study for Seawall – Task Order 2

TO 2 – New Cooper's Alley Boater's Facility and Public Restroom – Parks #1 Priority

- **Project Scope:** Construction of a replacement Cooper's Alley Boater's Facility. The Cooper's Alley Boater's Facility will be designed to include boater support such as restrooms, showers, laundry, and an ice machine.
 - **Current Project Status:** The project is currently being solicited for professional engineering design services.
 - **OPCC:** \$3,996,000.00
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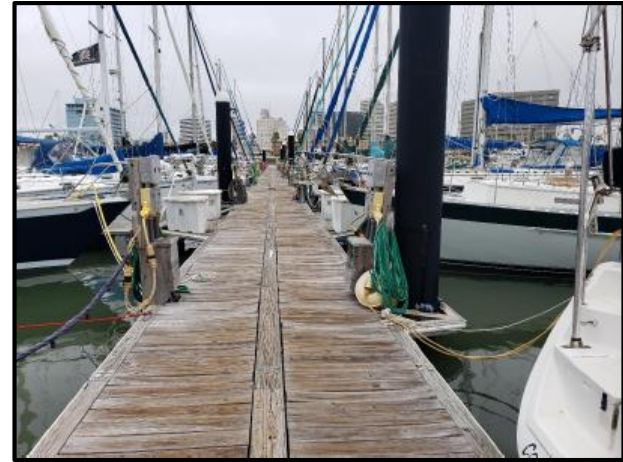


Current Projects:

Comprehensive Feasibility Study for Seawall – Task Order 3

TO 3 – Replace Piers A, B, C, D, and L

- **Project Scope:** Piers A, B, C and D will be replaced with new floating piers, similar to those at Piers E, F, G and H. Pier L will be reconfigured eliminating the existing access directly from the Yacht Club.
- **Current Project Status:** The project is currently being solicited for professional engineering design services.
- **OPCC:** \$13,904,800.00





Current Projects:

Comprehensive Feasibility Study for Seawall – Task Order 4

TO 4 – Replace Peoples Street Boardwalk

- **Project Scope:** Complete reconstruction of the Peoples Street Boardwalk to include demolition of existing boardwalk and finger piers, concrete and timber pilings, new boardwalk, and new finger piers. Project will also include water and electrical utilities.
- **Current Project Status:** The project is currently being solicited for professional engineering design services.
- **OPCC:** \$7,163,520.00



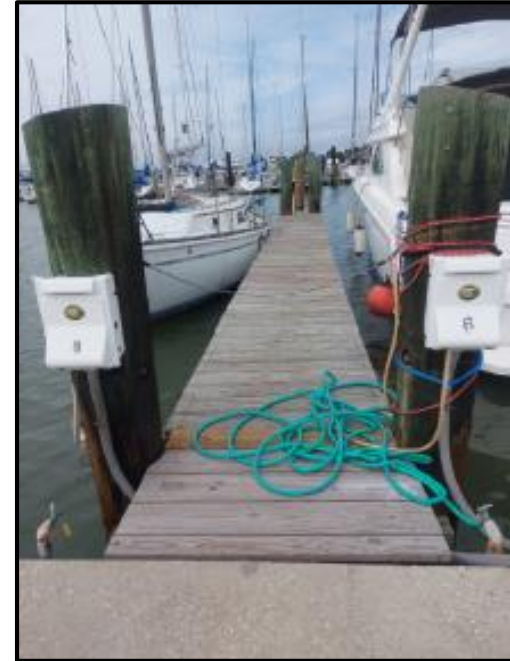


Current Projects:

Comprehensive Feasibility Study for Seawall – Task Order 5

TO 5 – Replace Lawrence Street T-Head Finger Piers

- **Project Scope:** Complete reconstruction of the Lawrence Street Finger Piers to also include utilities.
- **OPCC:** \$3,421,600



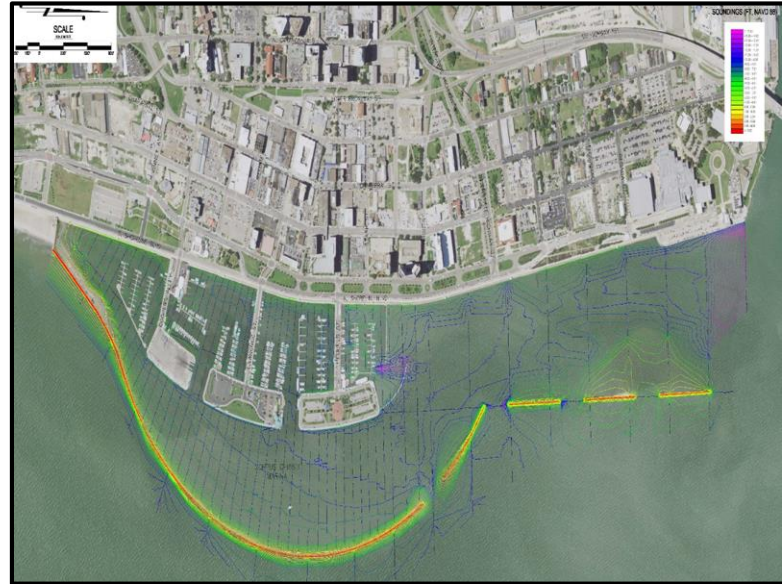


Current Projects:

Comprehensive Feasibility Study for Seawall – Task Order 6

TO 6 – Marine Survey Services

- **Summary of Findings:** Depths within the Marina ranged from 0 feet to 16.6 feet deep. The magnetometer discovered a feature that resembles a pipeline. While no records of a pipeline in the Marina exists, a dive inspection is recommended.
- **OPCC:** N/A – Information to be used to develop a dredging feasibility report.





Current Projects:

Floodwall Upgrades at Science Museum (aka USACE & Science Museum Bulkhead Repairs)

- **Project scope:** Construct a new bulkhead and the waterfront armoring against wave erosion. Project will also incorporate landscape features to enhance pedestrian circulation and experience.
- **Current Project Status:** This project was approved by Type A Board on August 17, 2020. The underlying real estate is owned by USACE and PoCCA. City leadership wishes to engage with USACE and PoCCA about future plans before initiating design. FEMA has also recently published a draft FIRM with a favorable BFE.
- **Current Budget:** \$12,500,000
- **Design Contract Approved by Type A:** 8/17/20
- **Design Contract Approved by City Council:** NA
- **Estimated Project Completion:** TBD





Current Projects:

Kinney & Power Street Pump Station Improvements

- **Project scope:** The downtown flood protection system relies on these two pump stations to remove all water from the area during a significant storm event. This project updated the hydraulic model and studied ways to enhance reliability and capacity of the downtown storm water pumping system.
- **Current Project Status:** A final report has been delivered.
- **Next Steps:** A grant application has been submitted to CDBG-MIT to fund the project. The project needs to be solicited for feasibility and engineering design services.

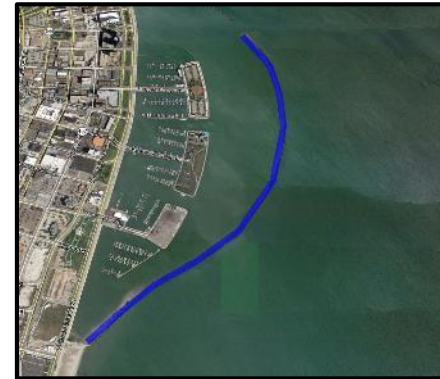




Current Projects:

McGee Beach Nourishment /Boat Basin Dredging (aka McGee Beach Breakwater and Marina Dredging)

- **Project scope:** This project combined the scopes from E16321 and E16318. It will repair 1800 LF of the existing McGee Beach rock breakwater and concrete cap. The project will also dredge shoaled areas in the marina. Dredged material to be placed in dredge material placement area (DMPA) owned by the PoCCA. The city will enter into an Interlocal Agreement with PoCCA for use of the DMPA.
- **Current Project Status:** Final plan approved by PoCCA. The project will be advertised for bids in February 2021.
- **Current Budget:** \$4,700,000
- **Design Contract Approved by Type A:** Feb 2018
- **Design Contract Approved by City Council:** Feb 2018
- **Estimated Project Completion:**





Current Projects: New McGee Breakwater

- **Project scope:** This project will consist of the planning and a feasibility study for a new breakwater design that will extend from the current breakwater past the McGee Beach.
- **Project status:** The project needs to be solicited for feasibility and engineering design services.

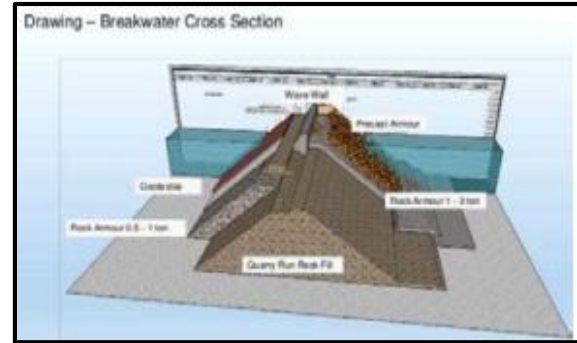




Current Projects:

Phase I Breakwater Repair (McGee Beach)

- **Project scope:** This project combined the scopes from E16321 and E16318. The breakwater was constructed in the 1920's and is experiencing severe structural degradation due to age and harsh environment. Proposed improvements will repair existing rock breakwater and concrete cap. Repairs consist of demolishing existing, damaged concrete cap, repairing rock breakwater, and installing a new, wider concrete cap.
- **Current Project Status:** Final plan approved by PoCCA. The project will be advertised for bids in February 2021.





Current Projects:

Salt Flats Levee Improvements

- **Project Scope:** The Salt Flats Levee System requires improvements to ensure the system will function as originally designed. The planned improvements will repair functional deficiencies in the levee and protect against the potential for levee breach during a major storm event.
- **Current Project Status:** Design was temporarily suspended due to interferences with the Harbor Bridge. Progress has resumed and the 60% design submittal is due on January 22, 2021.
- **Current Budget:** \$2,800,000
 - **Design Contract Approved by Type A:** Sept 2019
 - **Design Contract Approved by City Council:** Oct 2019
 - **Estimated Project Completion:** Oct 2021

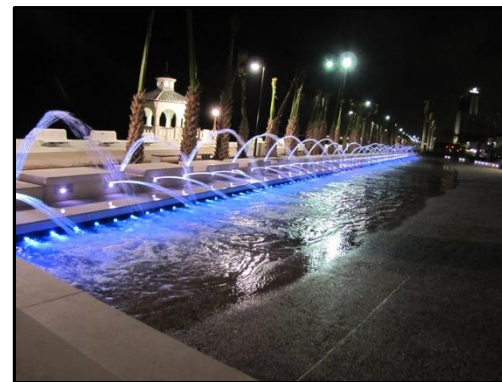




Current Projects:

SEA District Water Features

- **Project Scope:** Restore functionality to the two water features (Waster Garden and Shoreline Fountain) in the SEA District. The project includes the complete replacement of electrical and mechanical equipment in a new aboveground pumphouse at the Water Gardens.
- **Current Project Status:**
 - Shoreline Fountain – The project is being pursued as a maintenance and repair project using on-call maintenance contractors. This approach should result in savings over a design-bid-build approach.
 - Water Garden – The funding for this project was not approved in the Seawall CIP. The City commissioned a value engineering exercise to determine if project cost could be reduced. The engineer's estimate has been reduced by over one third. No decision has been made yet over how to fund the project.
- **Current Budget:** \$2,000,000
- **Design Contract Approved by Type A:** Dec 2018





Current Projects: Seawall Capital Repairs

- **Project scope:** The current project consists of concrete surface repairs; repairs to the eight Mirador concrete structures, repainting and repair of the retaining wall structures at the intersections and installation of skate stops along top of wall.
- **Current status:** The project was advertised for re-bid. Bids to be opened on January 13, 2021.
- **Budget:** \$1,700,000
- **Design Contract Approved by Type A:** Sept 2018
- **Design Contract Approved by City Council:** Oct 2018
- **Estimated Project Completion:**





Other Type A Requests:

- **Signage & Lighting in Area, Upgrade Mirador Lighting** – To be addressed with Street Lighting Improvements Project (Bond 2018, Prop A).
- **Revisioning of Median Area, Landscape Improvements including Irrigation Rehabilitation and addition of Shade Structures** – Funding to be identified.
- **Improve WiFi** – City IT Department to perform analysis of WiFi strength and increase signal where possible.
- **Increase Seawall Height** – Would require feasibility study. FEMA has also recently published a draft FIRM with a favorable BFE.
- **Improvements to Waters Edge Park** – Recommend pursuing a separate professional services contract for planning.
- **Sidewalk Repairs and Replacement** - The repair and/or replacement of existing sidewalks shall be coordinated with Public Works.



Other Type A Requests by Marina

- **Fuel Tank Replacement** - New fuel tank to replace existing tank in same location.
- **Marina Dredging** - Feasibility study pending. Results of HDR's Task Order 6, Marina Surveying Services, will be used to prepare dredging study.
- **Parkland Upgrades** – Funding to be identified.
- **Marina Asphalt Repair** – The pavement repairs shall be coordinated with Public Works.
- **Rehabilitation of Streets, Median Areas, & Crosswalks** – The project to be coordinated with Public Works. Downtown Pedestrian Safety Improvements (Bond 2018 , Prop B) will address crosswalks at Shoreline & I 37, Shoreline & Twigg, Shoreline & Copper's Alley, Shoreline & Kinney, Shoreline & Park and Shoreline & Furman. The project is in design.



Questions

