

BRAZOS RIVER FLOOD GATES AND COLORADO RIVER LOCKS (BRFG-CRL), TX

INLAND WATERWAYS USERS BOARD
MEETING NO. 102

Ramón Navarro, PMP, CFM
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U.S. Army Corps of Engineers
Galveston District
11 April 2024



Brazos River Crossing



Colorado River Crossing



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BRFG-CRL PROJECT – LOCAL, STATE, NATIONAL INTERESTS

- **GIWW is a high use waterway; Energy (Petro/Chemical and its derivatives).**
- **Upgrade to infrastructure needed (constructed in the 1940s).**
- **Increase navigation industry efficiency:** Wider gate openings, realigned channels will allow wider tow/barge configurations, faster crossings, eliminating/decreasing impact to navigation industry of \$10M+ per year, 2019 estimate
- **Increase safety:** Wider gate openings, realigned channels will eliminate/reduce gate collisions significantly.
- **Partnership efforts (GICA Captains involved; Briefings to local, state, federal governments; External stakeholder briefings).**
- **High Benefit-to-Cost Ratio (2.11 BRC; 0.58 CRC; 1.24 BRC & CRC; FY22 economics update @ 7% discount rate).**
- **Category # 2 project (authorized & awaiting construction funds).**



Tows must break into a single row of barges to pass narrow gates opening which creates substantial economic impacts to the industry translating into local, state, and national economic impacts.



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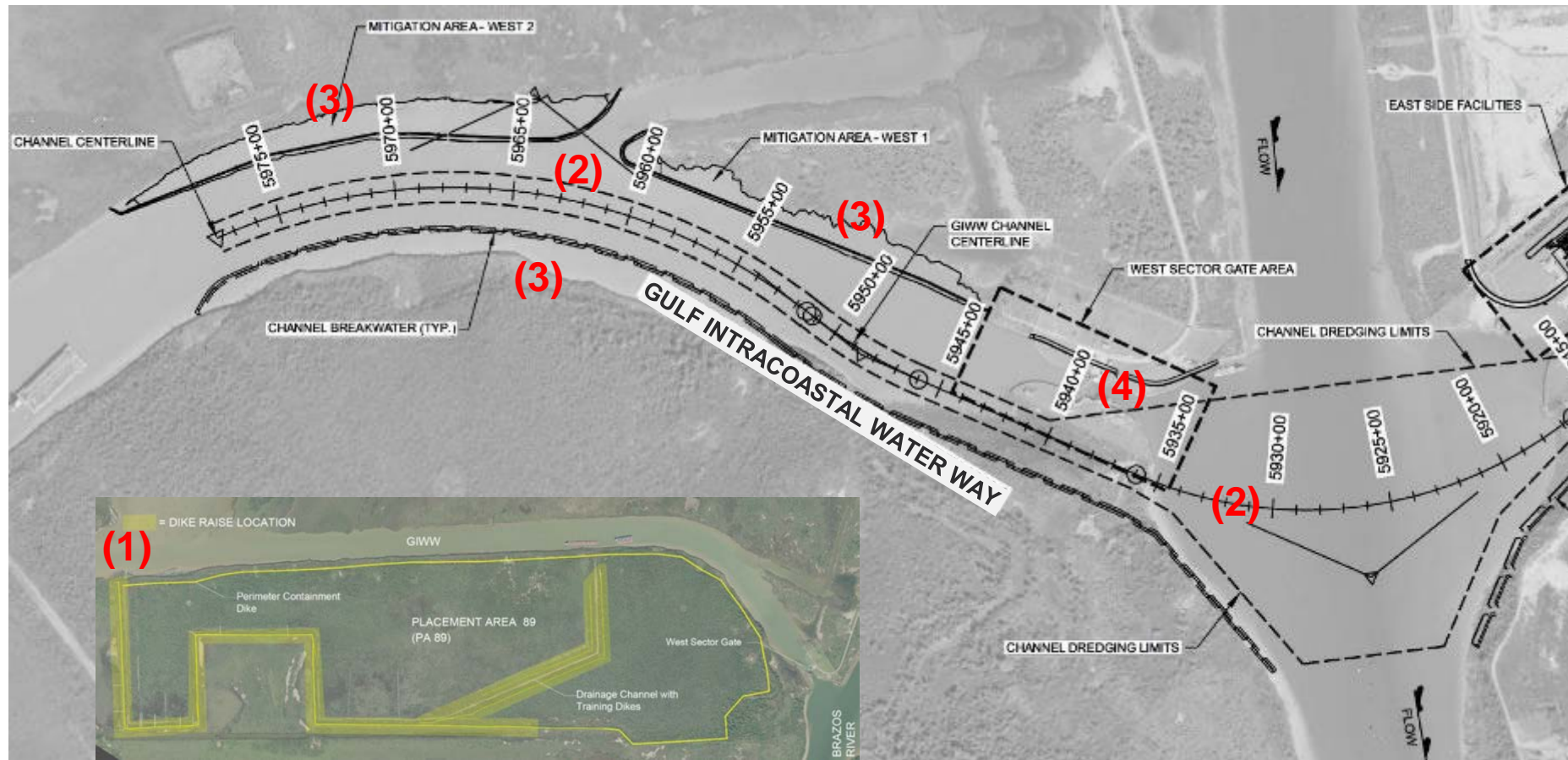
BRFG – ENTIRE FACILITY DESIGN (WEST & EAST) – CURRENT STATUS

- Final design (entire facility –west and east) received Oct 2023.
- Awaiting construction funds.
- A westside-only contract procurement will require design repackaging.

NOTE: Final A-E submittal is a reviewed design package for the entire facility, which will be used to extract / repackage for the westside only contract features when construction funds are made available.

BRFG – WESTSIDE ONLY: FEATURES

- (1) Placement Area 89 Levee Raise (3 ft) and Interior Drainage Improvements.
- (2) Westside New Channel and Crossing Dredging (EL -16FT authorized depth).
- (3) Westside Mitigation Areas.
- (4) Westside Structures Demolition.



BRFG – WESTSIDE ONLY:

SCHEDULE & COST ESTIMATE

Westside Only Activity	Cost Range	FY25												FY26												FY27												FY28													
		O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
Receipt of Funds	\$78.1M - \$89.3M																																																		
AE Task Order Solicitation (contract & labor)	\$550K - \$605K																																																		
Design Repackage & Reviews (labor)	\$478K - \$638K																																																		
Construction Contract Solicitation (labor)	\$66K - \$77K																																																		
Construction of BRFG Westside (contract & labor)	\$77M - \$88M																																																		

Assumes a 10% cost escalation rate from FY2023 cost estimates for FY2025 contract award.

Eastside only: \$198M to \$220M (10% escalation assumed; includes all cost elements indicated above for westside-only)



BRFG-CRL PROJECT – FUNDING SUMMARY

	PED	CONSTRUCTION		TOTAL (1 Mar 2022)
		CG (65%)	IWTF (35%)	
Total Project Cost (TPC) Estimate (Oct 2021):				\$520,877,000
FY2021 Allocation ¹⁾	\$16,618,000	\$0	\$0	\$16,618,000
FY2022 Allocation	\$6,932,000	\$0	\$0	\$6,932,000
FY2023 Allocation	\$50,000	\$0	\$0	\$50,000
Total Allocations to Date:				\$23,600,000
Remaining TPC Balance:				\$497,277,000

¹⁾ Includes \$178K reallocated feasibility funds to PED.
Source: 1 Mar 2024 Congressional Factsheet.

ITEM	TOTAL PROJECT COST ESTIMATE (31 Jan 2022)
Authorized Cost:	\$635,593,000
902 Limit:	\$717,548,000
Engineering & Design Cost:	\$84,959,000
Supervision & Admin Cost:	\$46,068,000
Mitigation Cost:	\$1,006,000

Source: 31 Jan 2022 Cost Certification.

Commentary:

- No construction funds appropriated in FY24. Schedule pushed to outyears as shown in previous slide.
- Project is not in FY25 President's Budget.

5YR Fiscal Year Funding Capabilities (1) (65% CG and 35% IWTF combined; FY23 price level)

Facility	FY2025	FY2026	FY2027	FY2028	FY2029	Total (2,3)
BRC	\$ 259,980,000	\$ 22,000,000	\$ 12,000,000	\$ 6,500,000	\$ 0	\$ 300,480,000
CRC	\$ 39,385,000	\$ 8,510,000	\$ 0	\$ 0	\$ 417,225,000	\$ 465,120,000

1. Capabilities are based on current escalated cost estimates, pending FY24 cost estimates certification.
2. BRC total does not include \$23,600,000 of PED funds received (top-left table).
3. CRC total does not include \$54,980,000 estimated to complete construction.
4. Includes cost to initiate CRC design.

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