

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

INLAND WATERWAYS USERS BOARD
MEETING NO. 103

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Galveston District
1 August 2024



Brazos River Crossing



Colorado River Crossing



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BRFG BLUF– STATUS / DASHBOARD

PROJECT SAFETY



*NA , design complete and pending award.

PROJECT STATUS SUMMARY



BRFG West & East Side –
Design Complete Oct. 23

FINANCIAL STATUS SUMMARY



Awaiting New
Start Construction
Funds to award
BRFG Westside.

EXECUTIVE SUMMARY:

- Current project status:
 - ✓ Final BRFG design (entire facility –Westside and Eastside) received Oct. 2023.
 - ✓ A BRFG Westside only contract procurement will require design repackaging.
 - ✓ Awaiting new start construction funds to repackage design and award BRFG Westside.
- Limited funding, project implementation strategy is currently:
 - ✓ BRFG Westside – Award FY 25
 - ✓ BRFG Eastside – Award FY 29
 - ✓ Colorado River Locks – Award FY 34
- **Cost Certification package submitted to Walla Walla District 17 July 2024.**



BRFG – WESTSIDE ONLY: SCHEDULE & COST ESTIMATE

3.

Schedule subject to FY 25 appropriation.
Assumes a 10% cost escalation rate from FY2023 cost estimates for FY2025 contract solicitation.

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
FY2024 Allocation	\$0	\$0	\$0	\$0
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
Authorized Cost:	Not specific to BRFG Westside.
Escalated Cost:	
902 Limit:	
BRFG Westside Only – Design Cost: *	\$1.32M
BRFG Westside Only – Construction Cost: **	\$80.1M

* Includes contract solicitation.

** Includes Engineering During Construction and Supervision and Administration costs. Assumes awarding construction contract in FY2026.

Fiscal Year Funding Scenario Breakout (Pending Cost Certification):

	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Efficient: BRFG Westside Only *	\$81,420,000	\$0	\$0	\$0	\$0	\$81,420,000
Inefficient**: BRFG Westside Only***	\$0	\$88,000,000	\$0	\$0	\$0	\$88,000,000

* These are FY25 cost estimate values that include design repackaging, solicitation and construction costs (pending cost certification).

** Consistent with CIS enhanced scenario.

*** Additional 10% escalation assumed from previous.

BRFG –ISSUES/CHALLENGES

- **Challenge:** Limited funds to construct the entire BRFG (Westside and Eastside) facility in a single construction contract.
- **Mitigation Strategies:** Will repackage BRFG design into two contract packages (Westside and Eastside) for separate solicitations.

BRFG– LOOK AHEAD

AUG 24 – Cost certification complete.

FEB 25* – Complete solicitation for AE design and start repackaging BRFG Westside only.

MAY 25* – Issue construction contract solicitation BRFG Westside only.

SEP 26* – Award construction contract BRFG Westside only.

FEB 28* – Complete construction BRFG Westside only.

*Contingent on new start construction funds.

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Colorado River Locks



Brazos River Flood Gates



Tows must break into a single row of barges to pass narrow gates opening which creates substantial economic impacts to the industry (\$10M+, 2019 price level) translating into local, state, and national economic impacts.



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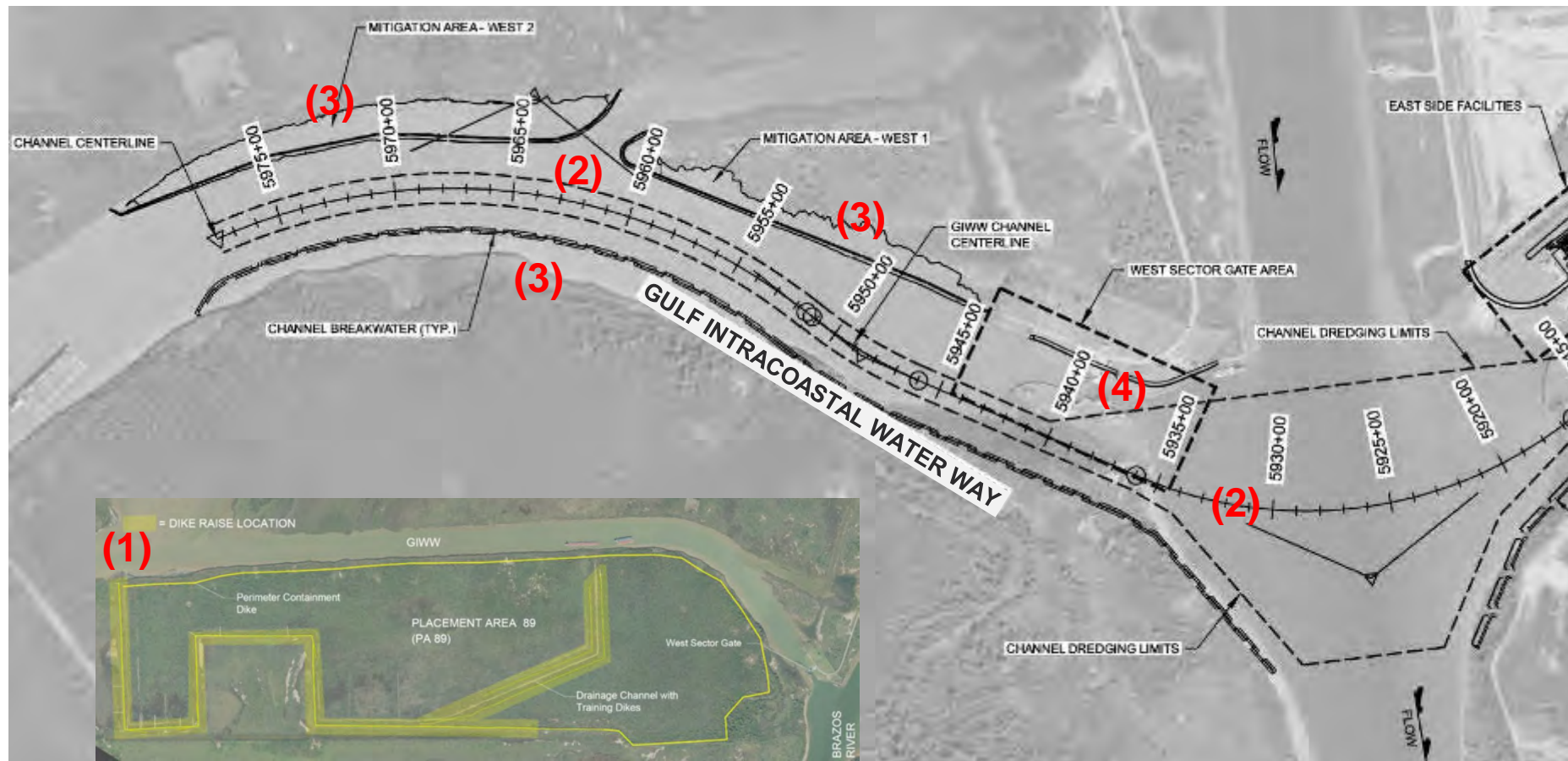


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BACKUP SLIDES

BRFG – WESTSIDE ONLY: FEATURES

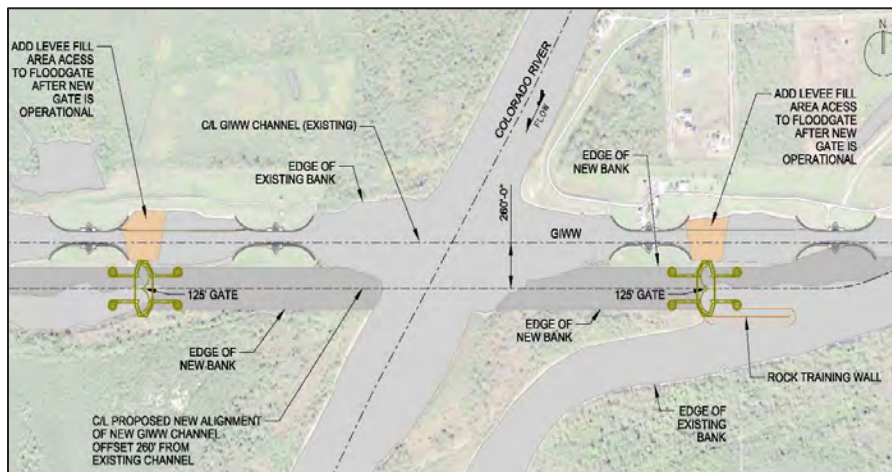
- (1) Placement Area 89 Levee Raise (3 ft) and Interior Drainage Improvements.
- (2) Westside New Channel and Crossing Dredging (EL -16FT authorized depth).
- (3) Westside Mitigation Areas.
- (4) Westside Structures Demolition.





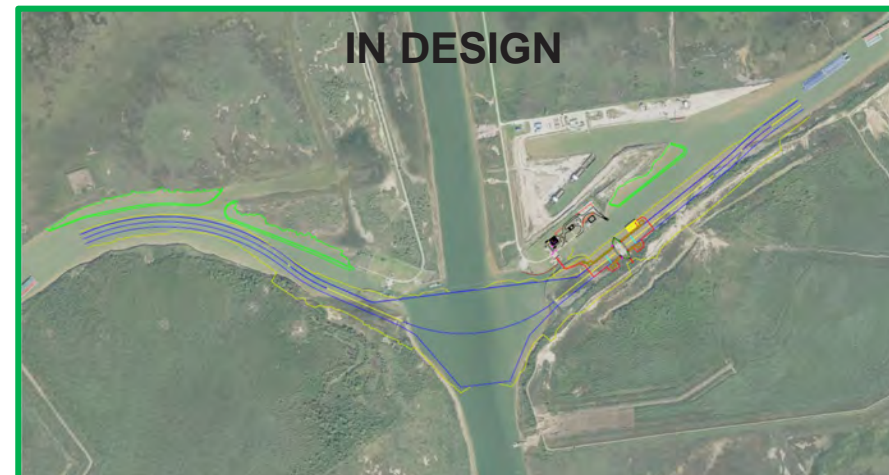
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BRFG-CRL PROJECT – SCOPE



Colorado River Crossing Plan

- Removal of all existing buildings and 75-ft locks on both sides of the river
- Construction of 125-foot channel from east to west, realigned
- Construction of two new 125-foot gates (east and west)
- Construction of new control houses, administration building, warehouse, boathouse
- Creation of ~ 1 acre of tidal wetlands



Brazos River Crossing Plan

- Removal of existing buildings and 75-ft gates on both sides of the river
- Construction of 125-foot channel from east to west, realigned
- Construction of a new 125-foot gate at the east side
- Construction of a new control house, administration building, warehouse, boathouse
- Creation of ~ 14 acres of tidal wetlands

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.