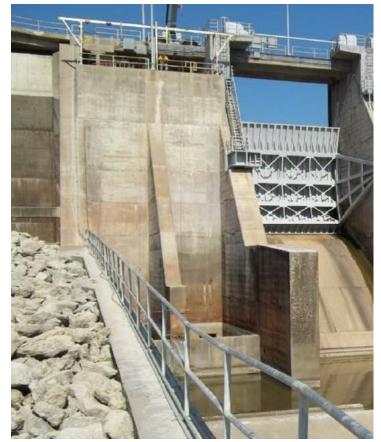
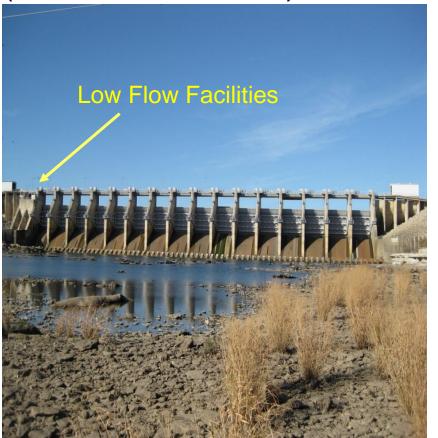


# Lake Granbury Low Flow Project

Presented by
Michael McClendon
Upper Basin Regional Manager

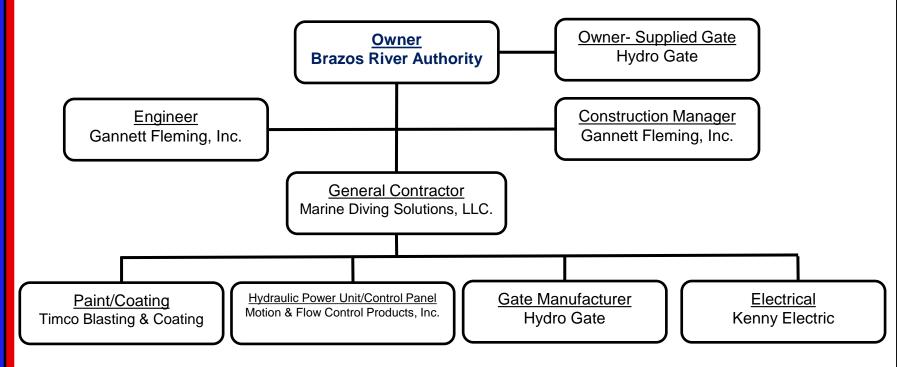
#### Downstream view (backside of dam)







## **Project Team Organizational Chart**





#### **Project Progression**





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Original Contract NTE \$1,990,750
Change Order #1 (\$53,600)
Adjusted Contract Amt. \$1,937,150
Proposed CO #2 (\$214K + 84,614) \$298,615
Revised NTE Amount (15% of original NTE): \$2,289,365



"WHEREAS, the Brazos River Authority entered into a contract with Marine Diving Solutions for a not-to-exceed cost of \$1,990,750 to perform construction services for the De Cordova Bend Low Flow Facilities Project, which price was decreased by change order to \$1,937,150:

WHEREAS, a recent site inspection discovered additional issues related to the project that must be corrected and Marine Diving is amenable to execution of a change order to perform the work;

WHEREAS, Brazos River Authority policy provides that the aggregate of all change orders entered into on a contract may not exceed ten percent of the original contract value without the express authorization of the Board of Directors and shall only exceed twenty-five percent on aggregate change orders in specific limited circumstances;

WHEREAS, the cost to perform the work will likely exceed the aggregate ten percent change order threshold, and it is possible other change orders on the project may be necessary; and



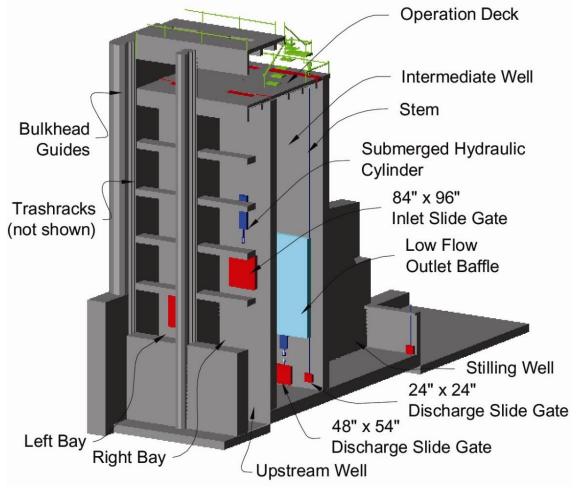
WHEREAS, staff is seeking authorization to execute a change order to perform the aforementioned work and any additional change orders as needed up to an aggregate change order limit of fifteen percent above the original contract price.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to execute Change Order #2 with Marine Diving Solutions LLC to perform additional construction services at De Cordova Bend Dam as referenced above, and enter into such additional change orders on the project as may be necessary; provided, however, the aggregate amount of all change orders entered into on the project, including Change Order #1, Change Order #2, and any additional change orders shall not exceed fifteen percent of the original contract price without the express authorization of the Board of Directors.









Meeting Date: November 15, 2021



## Settlement

Demand Prior to Mediation: \$1,095,300

Mediated Settlement:

AUI: \$562,643

**HyrdoGate:** \$375,000

- FNI: <u>\$125,000</u>

- After Mediation \$1,062,643

\$1,062,643

(\$350,000 + retainage)

(\$225,000 + value of gates)

(Cash recovery)

FNI: Waiver of Claim

\$422,688

Meeting Date: January 30, 2017



#### The Bid

1	Respondent		Marine Diving Solutions			
	Item #	·	Quantity	Original Bid Amount	Revised Bid Amount	Change in Bid
	1	Mobilization	1	\$150,000.00	\$145,000	(\$5,000)
	2	Demobilization	1	\$50,000.00	\$50,000	\$0
	3	Bonds and Insurance	1	\$62,500.00	\$46,250	(\$16,250)
	4	Temporary Facilities and Control	1	\$75,000.00	\$75,000	\$0
	5	Video Monitoring	1	\$20,000.00	\$22,500	\$2,500
	6	Seal Stoplogs	1	\$100,000.00	\$30,000	(\$70,000)
	7	Dewatering	1	\$80,000.00	\$25,000	(\$55,000)
	8	Temperature and Humidity Monitoring	1	\$40,000.00	\$40,000	\$0
	9	Demolition/ Salvage of Gates 5 & 6	1	\$300,000.00	\$300,000	\$0
	10	Recoating Thimbles and Frames	1	\$207,000.00	\$207,000	\$0
	11	Demolition/ Salvage of Exiting HPU	1	\$50,000.00	\$30,000	(\$20,000)
	12	New HPU and Control Panel Installed	1	\$850,000.00	\$400,000	(\$450,000)
ı	13	Reconnect Power, Network and Position Transducer Cables	1	\$100,000.00	\$50,000	(\$50,000)
	14	Installation of Owner Provided Gates	1	\$300,000.00	\$300,000	\$0
	15	Replace Gate 5 & 6 Ladder Center Safety Rail	1	\$25,000.00	\$25,000	\$0
	16	Replace Gate 3 Seal System	1	\$50,000.00	\$25,000	(\$25,000)
	17	Flush & Vent Existing Hydraulic Lines	1	\$125,000.00	\$100,000	(\$25,000)
	18	Field Operational Testing - Gates	1	\$25,000.00	\$25,000	\$0
	19	Field Operational Testing & Training SMCS	1	\$20,000.00	\$20,000	\$0
	20	Clean and Passivate Existing Stems and Guides	1	\$100,000.00	\$75,000	(\$25,000)
				\$2,729,500.00	\$1,990,750	(\$738,750)



# Project Purpose

- Remediate LG Low Flow Outlet Works to fully operational
- Replace two 84"x96" cast iron head gates with stainless steel gates – Provided by Hydrogate
- Remove and replace existing Hydraulic Power Unit
- Replace or recoat various components
  - Thimbles
  - Guides
  - Seals
  - Ladder Safety Rails



# Project Approach

- Gannett Fleming Inc. Contract Executed October 2019
  - Provide Design and Bid Services
  - Provide Construction Phase Services
  - Provide Resident Project Representative (RPR)
- Marine Diving Solutions, Inc
  - Construction Prime Contractor
  - Will install gates provided by Hydro Gate
  - Install post installed concrete anchors as needed for construction
  - Subs HPU, coating and electrical



#### **BRA Factors:**

- 1. Project has been bid multiple times; prior project contractor required settlement due to performance issues.
- 2. Project doesn't attract big firms; not big enough to put forward resources to it.
- 3. Construction contractors have ability to choose projects in current market.
- 4. Availability of construction laborers has been an issue.
- 5. Would we receive multiple bidders if rebid? Depending upon best and final bid from contractor; after vetting, BRA and consultant believe we are obtaining a qualified contractor at this time and we can move a project that has been on the books for over a decade?
- 6. What factors does supply chain problems affect existing and/or rebid. Contractors having to protect themselves against schedule deadlines and lack of parts to complete the job. Most will not hold parts over 30 days.
- 7. What are the costs associated with rebid and how does that impact budget and other planned projects on the dam?







"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorities the General Manager/CEO is enter into a construct with AUR Contractors, LLC, for an amount not to exceed \$2,164,050 to perform construction modifications to the low flow facilities at De-Cordova Benefit Dan."

#### **Previous Board Action**





Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY JULY 29, 2019

Agenda Item No. 6 Lake Granbury Project Remediation

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority "MBI IT MESICLYED that the Bload of Directors of the Brazos Rover Authority hereby authorities the Clemental Managenic ECO to negotiate and selectule a contract with Clament Flaming Inc. to perform engineering, construction oversight and consultant services to effectuate resolution of the De Condova Blend Dam Low Flore Facilities in an amount not to exceed \$700,000."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on July 29, 2019, to certify which witness my hand and



SUBSCRIBED AND SWORN TO BEFORE ME on this the 29 day of 3015, to certify which witness my hand and official seal.



Noting Publish in and left the State of Texas







Meeting Date: November 15, 2021