



Possum Kingdom Flow Control Gate Replacement Project

***Presented by
Troy Weatherhead
PK Reservoir Manager***

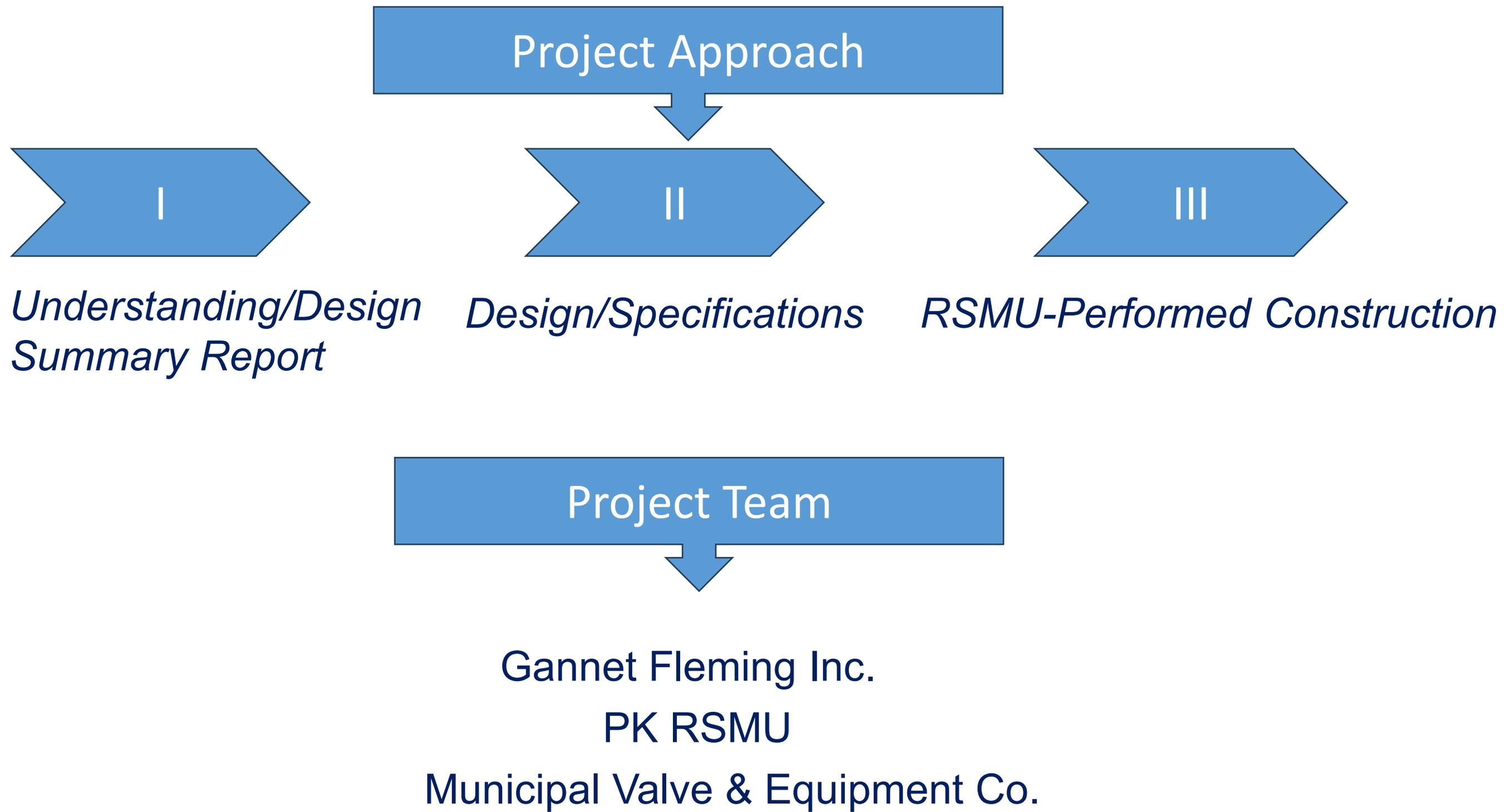


Project(s)

1. Flow Control Gate Replacement (12)
2. Actuator Replacement (21)

Purpose

The Flow Control Valve Project incorporates multiple efforts to facilitate operational and structural improvements to Morris Sheppard Dam which achieve and/or extend the service life of the structure and minimize potential adverse effects caused by zebra mussels.





Brazos River Authority

RESOLUTION OF THE BOARD OF DIRECTORS OF THE BRAZOS RIVER AUTHORITY SEPTEMBER 27, 2021

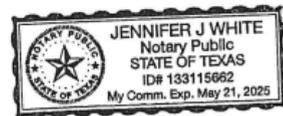
Agenda Item No. 2 Flow Control Gate Replacement Project

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a contract with Gannett Fleming Inc. to provide engineering services at Morris Sheppard Dam in an amount not to exceed \$1,400,000."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on September 27, 2021, to certify which witness my hand and seal.

Cynthia A. Flores Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on September, 2021, to certify which witness my hand



Notary Public State of Texas

DESIGN SUMMARY REPORT

MORRIS SHEPPARD DAM FLOW CONTROL GATE REPLACEMENT PROJECT

Prepared for:



Prepared by:

Gannett Fleming, Inc. 3838 North Central Avenue, Suite 1900 Phoenix, AZ 85012 Office: (602) 553-8817 FIRM PROJECT NO.: 069575 BRA PROJECT NO.: RFP 20-07-1176



Morris Sheppard Dam Flow Control Gate Replacement Constructability Workshop

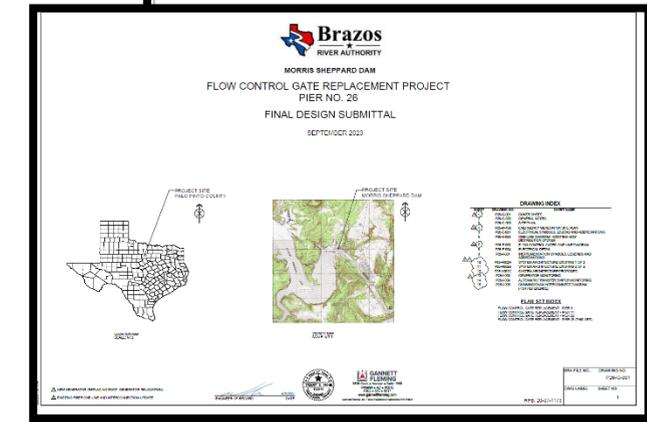
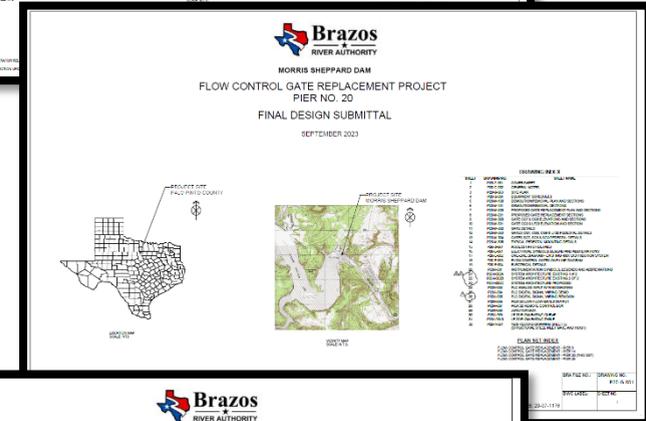
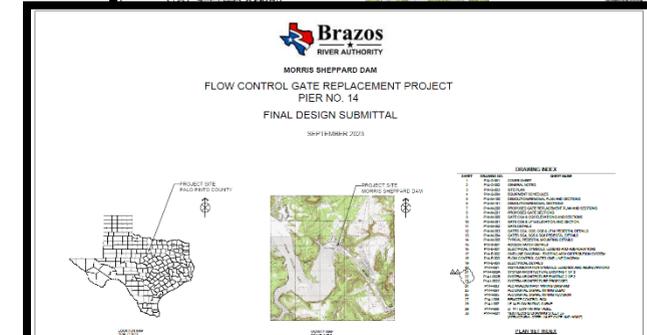
5/10/2022



GANNETT FLEMING



RFP: 20-07-1176





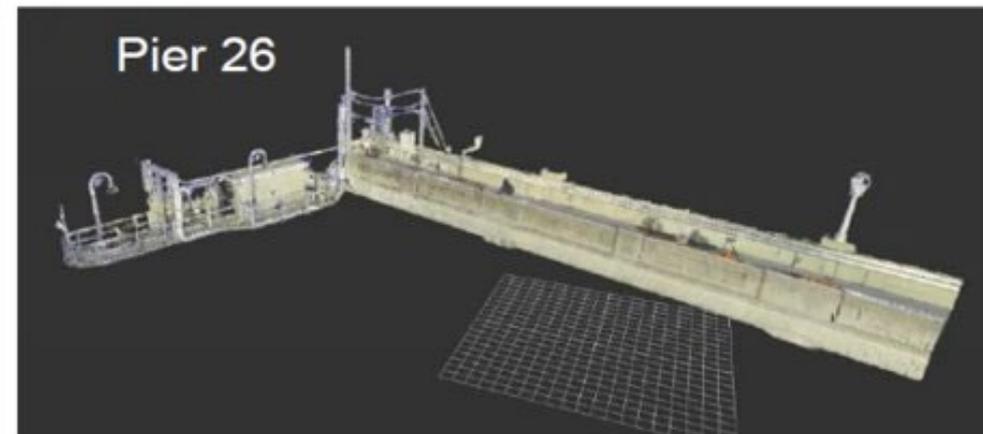
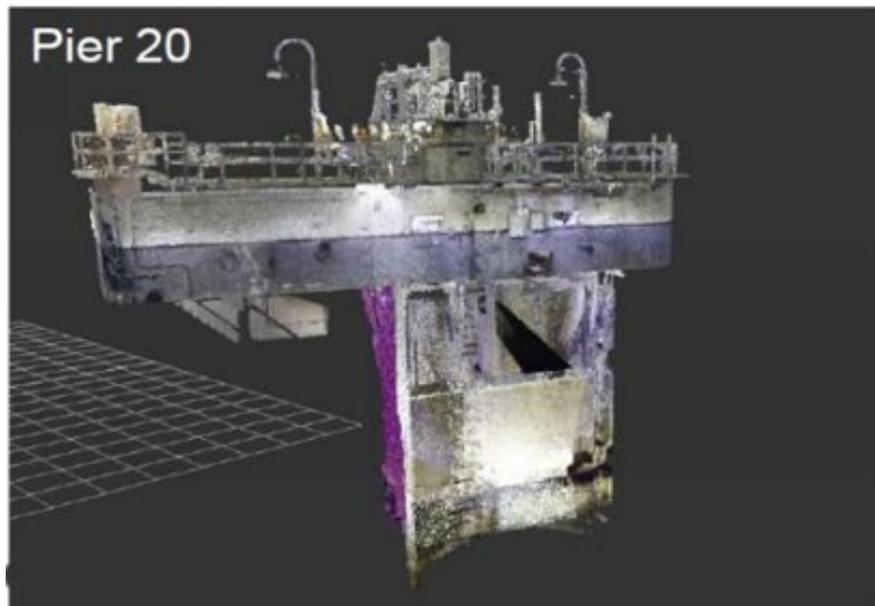
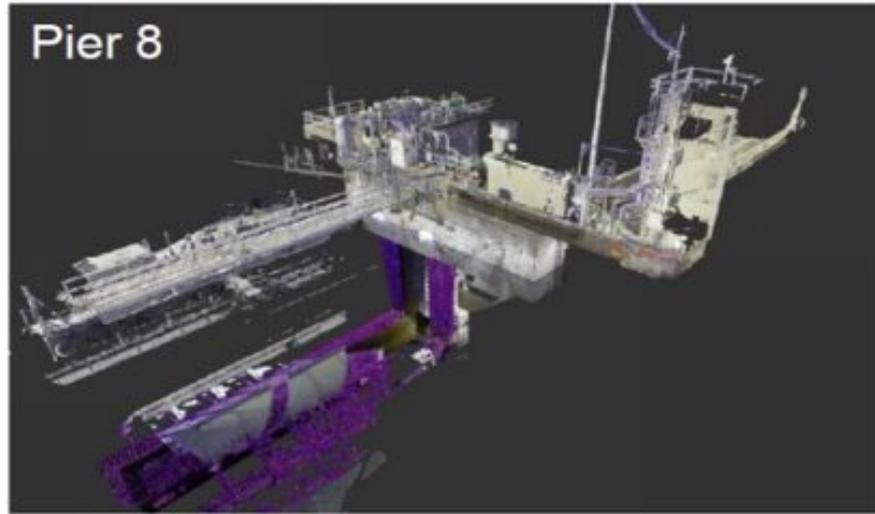
Pier 8
Flood Gates 1-3
Low Flow 8

Pier 14
Flood Gates 4-6
Low Flow 14

Pier 20
Flood Gates 7-9
Low Flow 20

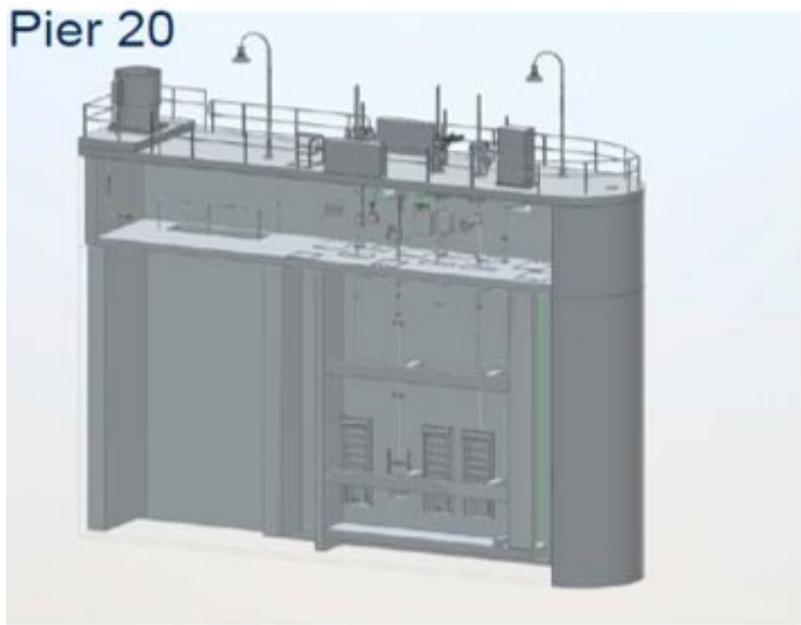
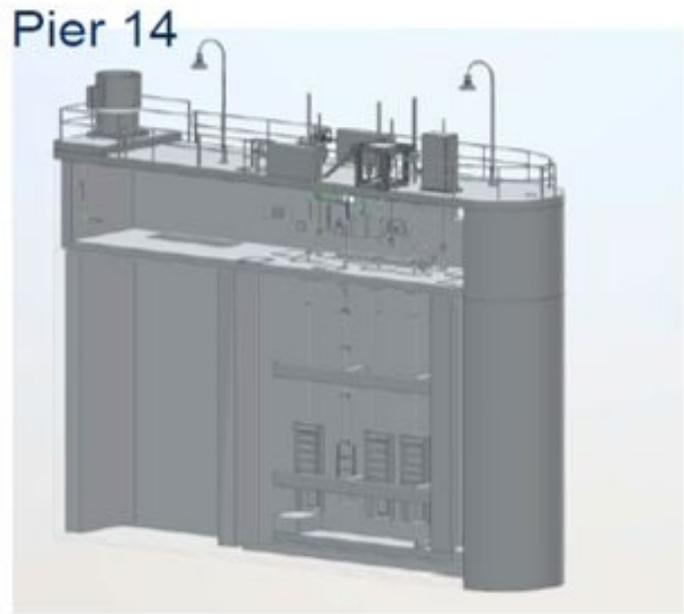
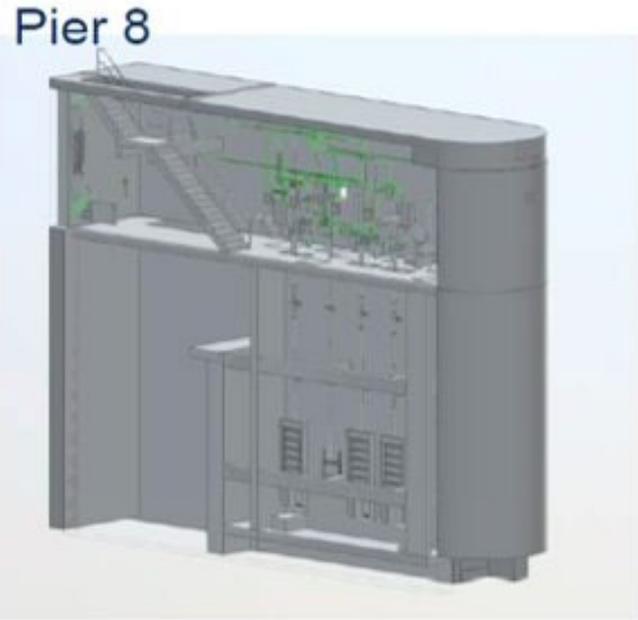


Review LiDAR Point Cloud Deliverables





Review Revit Model Deliverables





TASKS / SCHEDULE

Tasks	Anticipated Duration
Remove Pier from service and set conditions for work	Month 1-2
Sawcut / Jackhammer existing roller gate concrete as required and remove gate frames	Month 2-5
Install new slide gate frames and gates (this will be the hardest part)	Month 5-10
Fabricate and install pedestals and stem guides. Install actuators.	Month 10-12
Remove scaffolding / test new slide gates and actuators	Month 12-13
Return pier to service	13-14



Municipal Valve is a member of TIPS

GOLDEN HARVEST

Low Flow Gate (3)	\$32,078 each	\$96,234
Slide Gate (9)	\$41,800 each	\$376,200

AUMA

Actuators (9)	\$11,753 each	\$105,777
Hardware for existing valves (9)	\$8,700 each	\$78,300
Extended warranties (21)	\$800 each	\$16,800
Field Service Rep visit (one time)		\$2,500

TOTAL COST \$675,811

10% Contingency Factor \$67,581

Adjusted Cost \$743,392



“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute an Agreement with Municipal Valve & Equipment Company to provide gates, actuators, and other ancillary component parts to carry out the Flow Control Gate Replacement Project at Morris Sheppard Dam in an amount not to exceed \$750,000.00.”



Brazos River Authority



Brazos

— ★ —
RIVER AUTHORITY