



Brazos River Authority

Pier Plate Wall Assessment at Morris Sheppard Dam

***Presented by
Michael McClendon
Upper Basin Regional Manager***

Meeting Date: May 24, 2021



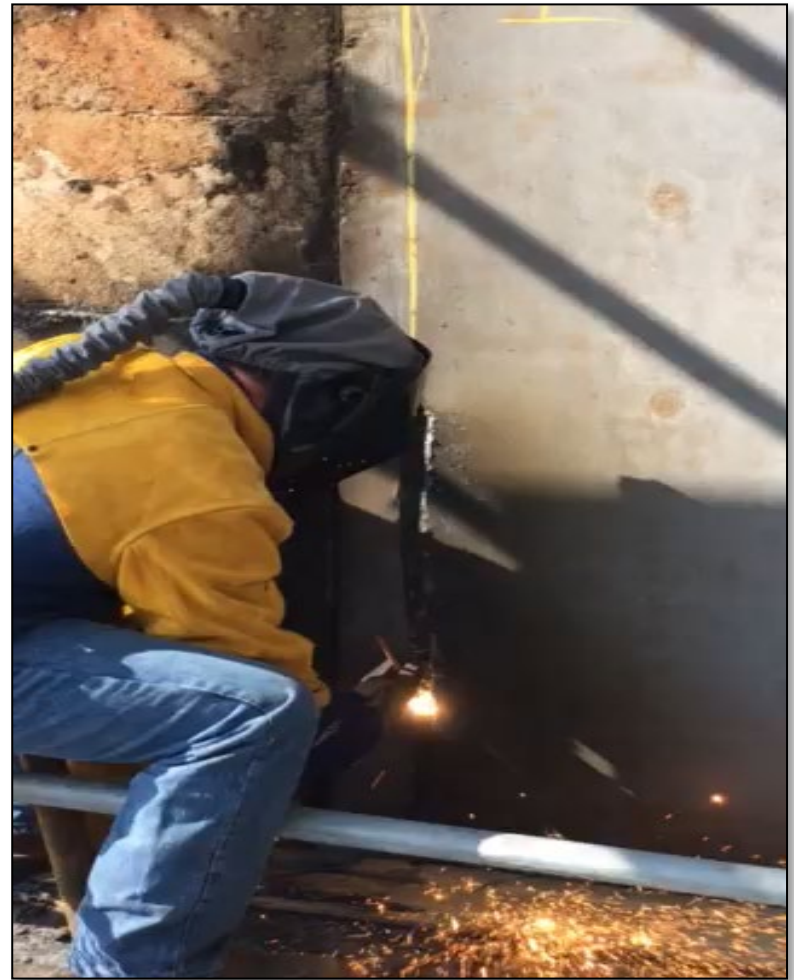
Brazos River Authority



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Meeting Date: May 24, 2021



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Brazos River Authority

**RESOLUTION OF THE BOARD OF DIRECTORS OF
THE BRAZOS RIVER AUTHORITY
OCTOBER 30, 2017**

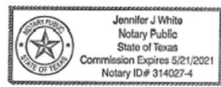
**Agenda Item No. 10
Pier Plate Wall Assessment at Morris Sheppard Dam**

"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes and approves the General Manager/CEO to enter and execute a contract with Gannett Fleming Inc. to perform engineering and construction oversight services to meet operational and maintenance objectives at Morris Sheppard Dam in an amount not to exceed \$400,000 for a five-year period subject to annual budget approvals."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on October 30, 2017, to certify which witness my hand and seal.


Dave Scott
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 30 day of October, 2017, to certify which witness my hand and official seal.




Notary Public in and for the
State of Texas

Meeting Date: May 24, 2021

Gannett Fleming
Civil & Environmental Engineers

July 19, 2019
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FINAL DESIGN MEMORANDUM

To: Michael McClelland, Regional Manager, Upper Basin - Brazos River Authority
From: Stewart S. Vaghi, P.E., CFM - Gannett Fleming, Inc.
CC: Blake Kettler, Reservoir Manager, Upper Basin - Brazos River Authority
Troy Weatherhead, PE Project Manager/Program Coordinator - Brazos River Authority
Date: July 19, 2019
Subject: Morris Sheppard Dam Gate No. 2 Side Seal Replacement - Final Design Memorandum
BIA RFP No. 17-06-2046

1. Purpose
This final design memorandum is to document any changes or variations from the Basis-of-Design.


2. Materials
2.1. Side Seal Plate and Anchors
Uncoated 316L stainless steel 2205 and 2304 were all recommended in the basis of design report. 316L was successfully used in the test panel and is recommended for construction for the final construction primarily due to pricing and general availability.
2.2. Grout
Both Eudex Hi-Flow Grout and SkagGrout®-325 were recommended in the basis of design report. SkagGrout®-325 was successfully used in the test panel and is recommended for construction for uniformity. While the addition of 3/8" gravel was discussed in the basis of design report, it was not recommended and not used in the test section to maximize flowability of the grout.
3. Constructability
3.1. Grout Placement
A portable silo or trailer-mounted pump was noted in the basis-of-design report to deliver mixed grout to the side seal plates, however a small unit pump was successfully used for the test panel work (see Photo 1). While grout delivery and placement are considered means-and-methods, if the small unit pump is used, a backup pump is recommended to be on-site.


Page 1 of 2



Stewart S. Vaghi
P.E., CFM
Gannett Fleming, Inc.
email: svaghi@gannett.com, c-05

Submitted to:
Brazos River Authority
BIA RFP No. 17-06-2046
OF 20 No. 10/0078

MORRIS SHEPPARD DAM
Gate No. 2 Side Seal Replacement - Investigation, Testing and Analysis Report

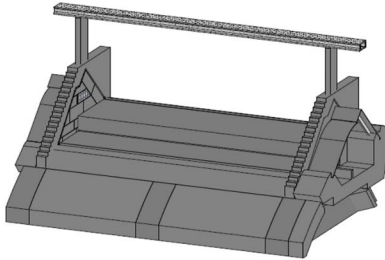



October 26, 2019
Design prepared by Stewart S. Vaghi
in accordance with the
Brazos River Authority
BIA RFP No. 17-06-2046
Gannett Fleming, Inc.
Brazos River Authority
Brazos River Authority

Submitted by:

Gannett Fleming
Brazos River Authority


Brazos RIVER AUTHORITY

MORRIS SHEPPARD DAM
GATE NO. 2 SIDE SEAL PLATE REPLACEMENT



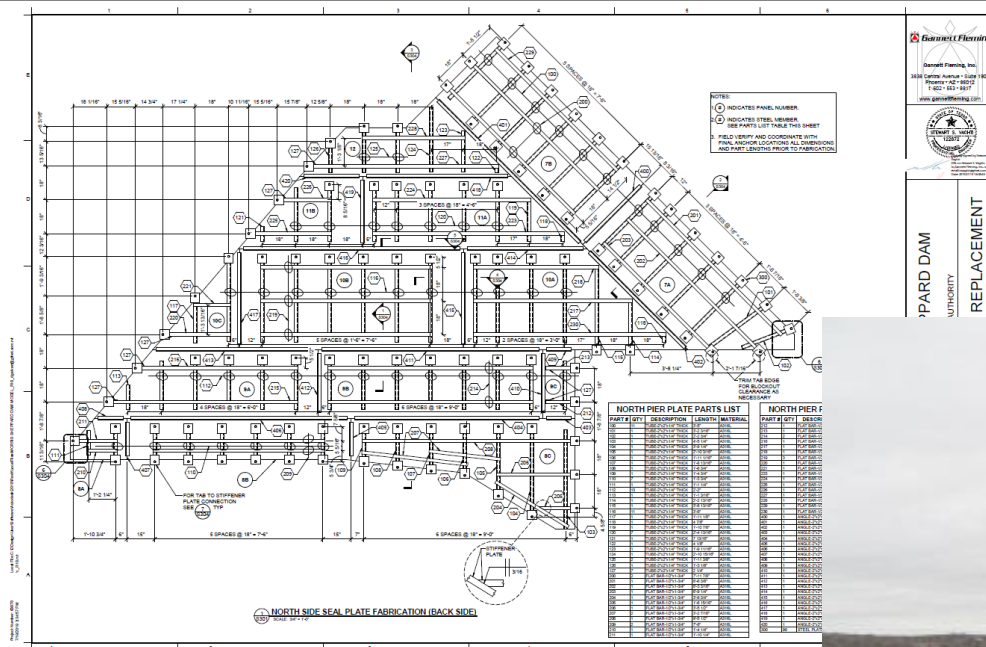
DRAWING INDEX		
DRAWING #	DESCRIPTION	REVISION
S001	TITLE SHEET	1
S002	GENERAL STRUCTURAL NOTES	1
S003	SITE PLAN	1
S004	PLAN VIEW	1
S100	GENERAL CONSTRUCTION SEQUENCE	1
S200	SOUTH SIDE SEAL PLATE ANCHOR LAYOUT	1
S201	NORTH SIDE SEAL PLATE ANCHOR LAYOUT	1
S300	SOUTH SIDE SEAL PLATE FABRICATION (BACK SIDE)	1
S301	NORTH SIDE SEAL PLATE FABRICATION (BACK SIDE)	1
S302	SOUTH SIDE SEAL PLATE FABRICATION (FRONT SIDE)	1
S303	NORTH SIDE SEAL PLATE FABRICATION (FRONT SIDE)	1
S304	SECTIONS AND DETAILS	1

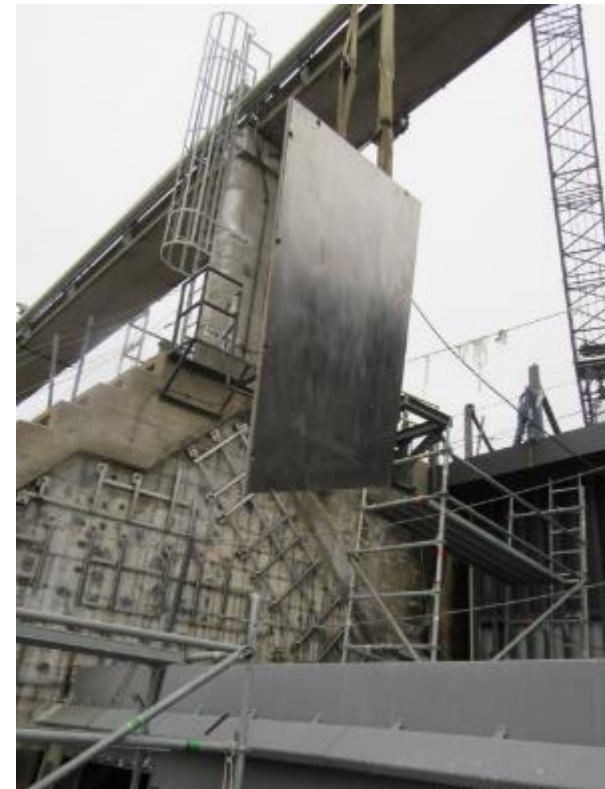
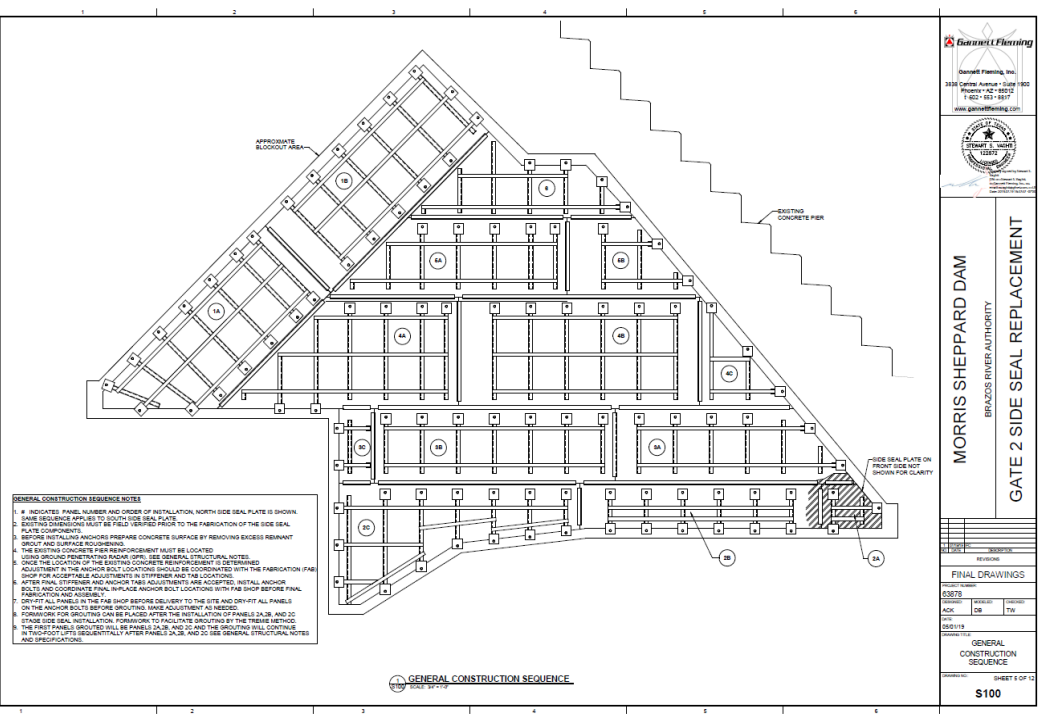
MORRIS SHEPPARD DAM
BRAZOS RIVER AUTHORITY
GATE 2 SIDE SEAL REPLACEMENT



FINAL DRAWINGS
S001
S002
S003
S004
S100
S200
S201
S300
S301
S302
S303
S304

TITLE SHEET
SHEET OF 12
S001







Meeting Date: May 24, 2021

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Eng. Contract (Gannett Fleming)
Earned Contract Value to Date:

\$400,000
\$355,836

RSMU Labor:

\$158,777

Materials:

\$133,695

- Stainless steel
- Grout
- Anchor bolts
- Welding supplies

Engineering expenses per gate

~\$25K - \$35K

- Minor design variations on successive gates
- Construction consultation
- Lidar scans
- Site Visits
- Completion/capture of construction as-builts

The following resolution is presented for consideration to the Board of Directors of the Brazos River Authority for adoption at its May 24, 2021 meeting:

“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes and approves the General Manager/CEO to enter and execute a contract amendment with Gannett Fleming Inc. to perform additional engineering and construction oversight services to meet operational and maintenance objectives at Morris Sheppard Dam in an amount not to exceed \$325,000”.



**Brazos
River
Authority**