# Alliance Regional Water Authority Technical Committee

### **REGULAR MEETING**



### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M.

Call-In Number: 1-346-248-7799 Meeting ID: 968 8616 3170 Passcode: 495028

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

A quorum of Alliance Regional Water Authority's (the Authority's) Technical Committee will hold a meeting by telephonic conference call at 3:00 PM, Wednesday, December 8, 2021. The public may participate in this meeting by calling the following number and code:

#### **ZOOM MEETING LINK**

Call-In Number: 1-346-248-7799 Meeting ID: 968 8616 3170 Passcode: 495028

Members of the public wishing to make public comment during the meeting must register by emailing <a href="info@alliancewater.org">info@alliancewater.org</a> prior to 3:00 p.m. on December 8, 2021. This meeting will be recorded and the audio recording will be available on the Authority's website after the meeting. A copy of the agenda packet will be available on the Authority's website at the time of the meeting. Additional information can be obtained by calling Graham Moore at (512) 294-3214.

- A. CALL TO ORDER
- B. ROLL CALL
- C. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.)
- D. CONSENT AGENDA
  - D.1 Consider approval of minutes of the Regular Technical Committee Meeting held October 13, 2021. ~ *Graham Moore, P.E., Executive Director*
- E. PRESENTATIONS TO THE COMMITTEE
  - E.1 None.
- F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION
  - F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ Chris Noe, P.E., Pape-Dawson Engineers
  - F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program. ~ Ryan Sowa, P.E., Kimley-Horn & Associates

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

- F.3 Possible recommendation to the Board to contingently award a construction contract for the Authority's Phase 1B Segment B Pipeline Project. ~ *Graham Moore, P.E., Executive Director*
- F.4 Possible recommendation to the Board to authorize a Work Order with K Friese & Associates, Inc. for construction administration services on the Authority's Phase 1B Segment B Pipeline Project. ~ *Graham Moore, P.E., Executive Director*
- F.5 Discussion and possible recommendation to the Board to approve a Work Order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
- F.6 Discussion and possible direction to Staff regarding the criteria and scoring to be utilized in the Authority's Request for Qualifications for Operation and Maintenance of the Carrizo Water Supply Project. ~ *Graham Moore, P.E., Executive Director*
- F.7 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ Graham Moore, P.E., Executive Director
- G. EXECUTIVE DIRECTOR REPORT Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.

#### I. EXECUTIVE SESSION

- 1.1 Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:
  - A. Water supply partnership options
  - B. Groundwater leases
  - C. Acquisition of real property for water supply project purposes

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

- I.2 Action from Executive Session on the following matters:
  - A. Water supply partnership options
  - B. Groundwater leases
  - C. Acquisition of real property for water supply project purposes

#### J. ADJOURNMENT

NOTE: The Technical Committee may meet in Executive Session to consider any item listed on this agenda if a matter is raised that is appropriate for Executive Session discussion. An announcement will be made of the basis for the Executive Session discussion. The Technical Committee may also publicly

discuss any item listed on the agenda for Executive Session.

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

#### A. CALL TO ORDER

No Backup Information for this Item.

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

B. ROLL CALL

Mayor Lee Urbanovsky

Blake Neffendorf

James Earp

Paul Kite

Humberto Ramos

Tim Samford

Regina Franke

NON-VOTING MEMBERS PRESENT

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

#### C. PUBLIC COMMENT PERIOD

Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.

Comments are limited to 3-minutes per agenda item and three minutes total for all non-agenda topics. If using a translator, comments are limited to six minutes per agenda item and six minutes total for non-agenda topics.

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

#### D. CONSENT AGENDA

Item D.1 is presented as part of the consent agenda.

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**D.1** Consider approval of minutes of the Technical Committee Meeting held October 13, 2021. ~ *Graham Moore, P.E., Executive Director* 

#### Attachment(s)

• 2021 10 13 Technical Committee Meeting Minutes

#### **Technical Committee decision needed:**

Approval of minutes.



#### **Alliance Regional Water Authority**

#### **TECHNICAL COMMITTEE MEETING**

#### **MINUTES**

#### Wednesday, October 13, 2021

The following represents the actions taken by the Technical Committee of the Alliance Regional Water Authority (Alliance Water) in the order they occurred during the meeting. The Technical Committee convened in a meeting on Wednesday, October 13, 2021 by telephonic conference call in accordance with Governor Abbott's Executive Order, declaration of the COVID-19 public health threat, and action to temporarily suspend certain provisions of the Texas Open Meetings Act.

#### A. CALL TO ORDER.

The Alliance Water Technical Committee Meeting was called to order at 3:02 p.m. by Mr. Earp.

#### B. ROLL CALL.

- Present: Neffendorf, Earp, Kite, Ramos and Franke.
- Absent: Samford and Urbanovsky.

#### C. PUBLIC COMMENT PERIOD

None.

#### D. CONSENT AGENDA

- D.1 Consider approval of minutes of the Regular Technical Committee Meeting held September 8, 2021.
  - Motion to adopt the minutes as presented was made by Mr.
     Neffendorf, seconded by Mr. Earp and approved on a 5-0 vote.

#### E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

#### F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

- F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program.
  - Mr. Noe provided an update on the Phase 1B construction.
  - No Action.
- F.2 Discuss and possible approval of Change Order #1 to the Authority's Water Treatment Plant and Raw Water Infrastructure project.
  - Staff was requested to ensure that appropriate outreach is being made to landowners prior to the start of construction of projects.
  - Motion to approve Change Order #1 to in the amount of \$249,606 was made by Mr. Ramos, seconded by Mr. Kite and approved 5-0.

Items F.3 and F.4 were opened simultaneously.

- F.3 Update and possible direction to Staff regarding the Authority's Phase 1B program.
- F.4 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Cost and Schedule Updates.
  - Mr. Sowa provided an update on the Phase 1B program as well as updates to the overall Program schedule and budget.
  - Mr. Ramos asked if the GBRA agreement needs to be modified to reflect the current schedule.
  - Mr. Moore responded that GBRA is kept abreast of the program schedule, budget and major items monthly at the Project Advisory Committee meetings and is aware of the current schedule for all shared projects.
  - Mr. Ramos requested an update at a future meeting as to how much additional funding might be necessary and the timing of the proposed funding.
  - No Action.
- F.5 Update, discussion and possible direction to Staff regarding the Commissioning Plan for the Authority's Phase 1B Program.
  - Mr. Cobler made a presentation on the Commissioning Plan for the Phase 1B Program.
  - No Action.
- F.6 Discussion and possible direction to Staff regarding Considerations for Operations of the Authority's Water System.
  - Mr. Moore reported that as a result of the GBRA agreement for Water Treatment and Transmission, that the Authority must utilize a

### competitive process for selection of operators for the Phase 1B infrastructure.

- No Action.
- F.7 Update, discussion and possible direction to Staff regarding weatherization of the Authority's existing infrastructure.
  - Mr. Biemer made a presentation updating the Committee on Staff's weatherization efforts for the Phase 1A facilities.
  - No Action.
- F.8 Discussion of legislative issues for the 87th Texas Legislature Special Session #2, and possible direction to Staff.
  - Mr. Moore provided an update.
  - No Action.
- F.9 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.
  - Mr. Moore provided an update.
  - No Action.
- G. EXECUTIVE DIRECTOR REPORT
  - No Action.
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS
  - No Items.
- I. EXECUTIVE SESSION
  - I.1 Executive Session on the following matters:
    - A. Water supply partnership options
    - B. Groundwater leases
    - C. Acquisition of real property for water supply project purposes
    - No Executive Session.
  - 1.2 Action from Executive Session on the following matters:
    - A. Water supply partnership options
    - B. Groundwater leases
    - C. Acquisition of real property for water supply project purposes
    - No Action.

		_			
 . A		-			—
		11 11	1111	/1 -	N I
 	<b>11 /</b> 1	"	 . 1 V I \	/11	

Meeting was adjourned at 4:50 p.m. by Mr. Earp.

APPROVED:	, 202′	1	

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.1** Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ Chris Noe, P.E., Pape-Dawson Engineers

#### Background/Information

Chris Noe with Pape Dawson will update the Committee on recent construction activities associated with the Phase 1B program.

#### Attachment(s)

Phase 1B Construction Update – December 8, 2021

#### **Technical Committee Decisions Needed:**

None.



### **ONGOING PROGRESS**



#### **Procurement / Construction Status**

#### Water Treatment Plant & Raw Water Infrastructure

- Temporary Access Road (CO0001) complete
- All-weather access road inside plant near completion
- Flow EQ Basin bottom slab poured, steel for reinforcing walls is being placed
- Recycle PS foundation slab complete
- High Service Pump Station and Clearwell excavation near completion
- Raw Water Tanks, Filter Complex, and Rapid Mix Basin excavation complete

#### **Booster Pump Station**

- · MWH mobilized
- · Entrance gates installed
- Clearing for access road, staging area, and trailers complete

#### Segment A

- · Pre-Construction Kickoff held and NTP issued
- Submittals are being received and processed thru SharePoint

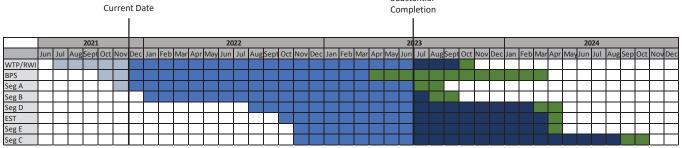




PROJECT	CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$54,599,281.00	\$3,683,722.10	\$50,915,558.90	6.75%
BPS	\$19,759,331.00	\$0.00	\$19,759,331.00	0.00%
EST	\$0.00	\$0.00	\$0.00	0.00%
Seg A	\$49,471,384.71	\$0.00	\$49,471,384.71	0.00%
Seg B	\$0.00	\$0.00	\$0.00	0.00%
Seg D	\$0.00	\$0.00	\$0.00	0.00%
Seg C	\$0.00	\$0.00	\$0.00	0.00%
Seg E	\$0.00	\$0.00	\$0.00	0.00%

3

# SCHEDULE DURATIONS Substantial



Project	Contract Status	Notice to Proceed	Substantial Completion	Sub Comp Delta (Days)	Sub Comp Status	Final Completion	Final Comp Delta (Days)
WTP/RWI	Awarded	7/16/2021	9/3/2023	0	Behind 3 mo	11/2/2023	0
BPS	Awarded	10/25/2021	3/19/2023	0	On Time	3/18/2024	0
Seg A	Awarded	11/16/2021	6/9/2023	32	On Time	8/8/2023	32
Seg B*	Pending						
Seg D*	Pending						
EST*	Pending						
Seg E*	Pending						
Seg C*	Pending						
* Tentative Dates  Change from previous report							

4

### **PROGRESS PHOTOS**





WTP/RWI - Temporary Access Road



WTP/RWI - Plant Access Road



WTP/RWI - Flow Equalization Basin

5

### **PROGRESS PHOTOS**

PAPE-DAWSON ENGINEERS



WTP/RWI - Recycle Pump Station



WTP/RWI - Clearwell excavation



WTP/RWI - Filter Complex excavation

6



BPS – Placing fence and gate at entrance



BPS - Tree removal

7

### **PROGRESS PHOTOS**

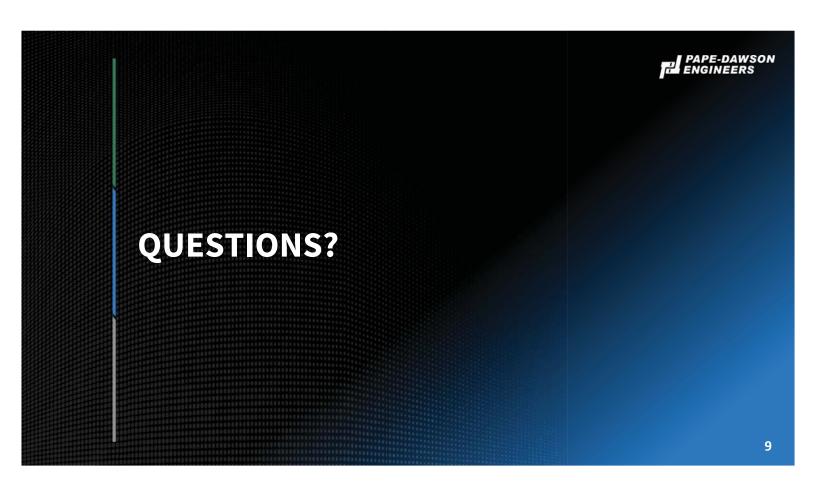




BPS – Clearing for Access Road



BPS – Construction entrance preparation



#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.2** Update and possible direction to Staff regarding the Authority's Phase 1B program.

~ Ryan Sowa, P.E., Kimley-Horn & Associates

#### Background/Information

Ryan Sowa with Kimley-Horn will update the Committee on their recent activities associated with the Phase 1B program.

#### Attachment(s)

- Phase 1B Program Update December 8, 2021
- Kimley-Horn Monthly Summary of Activities for November 2021

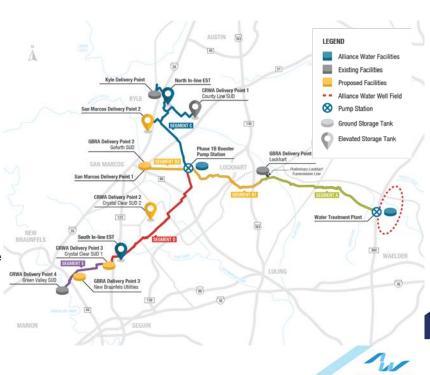
#### **Technical Committee Decisions Needed:**

None.



### **Ongoing Progress**

- ► Design Milestone Status
  - Design Submittals
    - Segment C & E 100% submittals anticipated in January
  - TWDB Reviews
    - Segment A
      - Construction Funding Release Disbursed
      - · Working on Land Acquisition Release
    - Segment B
      - Final Design, Procurement Funding Release in Preparation
  - Pipeline Segment B
    - Anticipated NTP to Contractor: Late January



# **Pipeline Easement Acquisition Status**

STATUS								
Pipeline Segment	Number of Parcels	(A) Appraisal/Offer in Development	(B) Negotiation (Inital Offer)	(C) Negotiation (Final Offer)	(D) = (A+B+C) Appraisal / Negotiation	(E) Condemnation in Process	(F) = (D+E) Possession Still Needed	(G) Purchase Agreement Signed / Possession Obtained
Α	39	0	0	0	0	0	0	39
В	52	0	0	0	0	4	4	48
D	57	0	0	3	3	26	29	28
С	74	1	29	4	34	24	58	16
E	37	1	10	0	11	21	32	5
Well Field	20	17	0	0	17	0	17	3
Total	279						140	139



		ORIGINAL (FEB. 2019)	REVISED	
	Construction Package	ARWA Total Projected Cost	ARWA Total Projected Cost	DIFFERENCE
Submittal (%)	Combined Program Infrastructure			
Const.	Water Treatment Plant	\$ 25,200,000	\$ 29,500,000	\$ 4,300,000
Const.	Booster Pump Station & GBRA Meter Stations	\$ 12,100,000	\$ 13,200,000	\$ 1,100,000
60	Inline EST (South)	\$ 3,600,000	\$ 4,100,000	\$ 500,000
Const.	Pipeline Segment A	\$ 27,200,000	\$ 28,600,000	\$ 1,400,000
100	Pipeline Segment B	\$ 27,100,000	\$ 34,000,000	\$ 6,900,000
100	Pipeline Segment D	\$ 36,300,000	\$ 43,700,000	\$ 7,400,000
90	Pipeline Segment E	\$ 9,500,000	\$ 10,900,000	\$ 1,400,000
	Subtotal	\$141,000,000	\$164,000,000	\$ 23,000,000
	ARWA-Only Infrastructure			
Const.	Well Drilling	\$ 3,800,000	\$ 3,300,000	(\$ 500,000)
Const.	Raw Water Infrastructure	\$ 7,000,000	\$ 10,600,000	\$ 3,600,000
Const.	ARWA Booster Pump Station & Delivery Points	\$ 7,700,000	\$ 4,800,000	(\$ 2,900,000)
30	Inline EST (North)	\$ 5,400,000	\$ 6,500,000	\$ 1,100,000
90	Pipeline Segment C	\$ 64,500,000	\$ 68,600,000	\$ 4,100,000
90	Pipeline Segment E (ARWA-Only)	\$ 6,700,000	\$ 12,600,000	\$ 5,900,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
	Subtotal	\$ 99,400,000	\$110,600,000	\$ 11,200,000
	Total	\$240,400,000	\$274,600,000	\$34,200,000
ECEMBER	2021 UPDATE		CHANGE FROM NOVEMBER UPDATE	\$100,000



# **Construction Phase Services**

- ▶ Projects on this Agenda:
  - Pipeline Segment B



### Pipeline Segment B

- Construction Phase Services (Hourly not to Exceed)
- ▶ Basic Services Scope to Include:
  - Project Management and Coordination
  - Construction Progress Meetings
  - Periodic Site Visits
  - Shop Drawing Submittals
  - Requests for Information
  - Requests for Proposals, Change Orders
  - Final Walkthroughs
  - Record Drawings



# **Pipeline Segment B**

- Construction Phase Services (Hourly not to Exceed)
- Supplemental Services Scope to Include:
  - Verifying / Resetting Horizontal and Vertical Control
  - Additional Meetings / Site Visits
  - · Review of Additional Submittals, Substitutions, etc.
- ► Basic Services Fee = \$471,544.00
- ► Supplemental Services Fee = \$150,000.00







December 03, 2021

#### **Project Monthly Summary**

#### November 2021 Tasks Performed:

- Task 2 Stakeholder Coordination
  - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
  - Continued weekly task coordination with Alliance Water.
  - Prepared and presented the Board Meeting Update.
  - o Prepared and presented the Project Advisory Committee Meeting Update.
  - Prepared for and held Monthly Status Meeting with Alliance Water.
- Task 3 Budgeting
  - o Prepared and presented the monthly Budget Update for the Board meeting.
  - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
- Task 4 Schedule
  - Revised Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
  - Coordinated with Program team to integrate each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.
- Task 6 Data Management
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for easement acquisition process and alignment changes.
- Task 7 Environmental Management
  - o Prepared an Environmental Status Update for the Board meeting.
  - Continued coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
  - Coordinated with the Program Environmental Consultant regarding Inline Elevated Storage Tank site field work.
  - Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segments C and E.
  - Performed coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.
  - Monthly progress meeting and ongoing coordination with Program Environmental Consultant.

- Continued coordination between Program Environmental Consultant and Design Engineers.
- o Reviewed Program Environmental invoices, schedule, and risk log.
- Task 8 Land Acquisition Management
  - o Coordinated the appraisal process for Segments C, D, E, and W parcels.
  - Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
  - Performed weekly QC of parcel files in SharePoint, provided comments to Land Acquisition team.
  - Weekly coordination meeting with land agents to discuss status of rights-ofentry and to provide Program clarification on any questions/requests that have come from landowners.
  - Reviewed Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
  - Continued field work coordination to notify landowners of upcoming field work by consultants.
- Task 9 Texas Water Development Board Management
  - Continued coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.
- Task 10 Design Standards
  - Reviewed the Pipeline Construction Standards considering Contractor recommendations for cost savings.
- Task 11 Engineering Design Management
  - o Pipelines:
    - Segment A
      - Continued coordination with Design Consultant during project procurement and construction.
    - Segment B
      - Continued coordination with Design Consultant during project procurement.
    - Segment C
      - Continued coordination with Design Consultant for final design.
      - Continued coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
    - Segment D
      - Continued coordination with Design Consultant for final design and preparation for procurement.
    - Segment E



- Continued coordination with Design Consultant for final design.
- Wellfield:
  - Continued coordination regarding the completion of construction for Wells 6-9.
- Raw Water Infrastructure:
  - Continued coordination with Design Consultant for construction phase services.
- Water Treatment Plant:
  - Continued coordination with Design Consultant concerning Hydraulics/Surge development.
  - Continued coordination with Design Consultant for construction phase services.
- Booster Pump Station:
  - Coordinated with Design Consultant during project for construction phase services.
- Inline Elevated Storage Tanks:
  - Continued coordination with Design Consultant for 90% design development.
- Other:
  - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield, booster pump station).
  - Review invoices, schedules, and risk logs for consultants.
- Task 13 Electrical Power Planning
  - Continued coordination with ARWA and GVEC to develop agreement language for service to the well field.
  - Continued coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 Permit Coordination/Tracking
  - Continued Permit coordination with Pipeline Consultants.
  - Continued coordination with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
  - Continued coordination with Caldwell, Guadalupe, and Hays Counties regarding on going permit reviews.
  - o Continued General Coordination with GVEC and BBEC.
  - On-going Permit Tracking Log Updates.
- Task 15 Procurement and Construction Phase Services
  - Continued coordinated with Segment A and BPS Design Consultants during the construction phase.
  - Coordination with Segment B during procurement phase.



#### Alliance Water - Phase 1B Infrastructure - Owner's Representative

- o On-going coordination with WTP and RWI Design Consultants during the construction phase.
- Task 16 Other Services
  - Pipeline Easement Acquisition Cost Projection
    - Prepared an updated acquisition cost projection for ARWA's review and presented to the Board.

#### **December 2021 Projection:**

- Task 2 Stakeholder Coordination
  - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, GVEC, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
  - Continue weekly task coordination with Alliance Water.
  - o Prepare and present the Technical Committee Update.
  - Prepare and present Project Advisory Committee Meeting Update.
  - o Prepare and present Board Meeting Update.
  - o Prepare for and hold Monthly Status Meeting with Alliance Water.
- Task 3 Budgeting
  - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
- Task 4 Schedule
  - Revise the Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
  - Coordinate with Program team to integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.
- Task 6 Data Management
  - o Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for easement acquisition process and alignment changes.
- Task 7 Environmental Management
  - Review the Segment C Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
  - Continue coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
  - o Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segment C and E.

#### Alliance Water - Phase 1B Infrastructure - Owner's Representative

- Perform coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.
- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
- Continue coordination between Program Environmental Consultant and Design Engineers.
- o Review Program Environmental invoices, schedule, and risk log.

#### • Task 8 - Land Acquisition Management

- o Coordinate the appraisal process for Segment C, D, E, and W parcels.
- Coordinate with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
- Perform weekly QC of parcel files in SharePoint, provide comments to Land Acquisition team.
- Weekly coordination meeting with land agents to discuss status of rights-ofentry and to provide Program clarification on any questions/requests that have come from landowners.
- Review Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
- Continue field work coordination to notify landowners of upcoming field work by consultants.

#### Task 9 - Texas Water Development Board Management

 Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

#### • Task 10 – Design Standards

- Review Pipeline Construction Standards considering Contractor recommendations for cost savings.
- Coordinate with Pipeline Manufacturers to review potential cost savings measures to consider.

#### Task 11 – Engineering Design Management

- o Pipelines:
  - Segment A
    - Continue coordination with Design Consultant for construction phase services.
  - Segment B
    - Continue coordination with Design Consultant for procurement phase services.
  - Segment C
    - Continue coordination with Design Consultant for final design.



- Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
- Segment D
  - Continue coordination with Design Consultant for final design and preparation for procurement.
- Segment E
  - Continue coordination with Design Consultant for final design.
- o Wellfield:
  - Continue coordination regarding the completion of construction of Wells 6-9.
- Raw Water Infrastructure:
  - Continued coordination with Design Consultant for construction phase services.
- Water Treatment Plant:
  - Continue coordination with Design Consultant concerning Hydraulics/Surge development.
  - Continued coordination with Design Consultant for construction phase services.
- Booster Pump Station:
  - Coordination with Design Consultant for final design and procurement development.
- o Inline Elevated Storage Tanks:
  - Coordination with Design Consultant for 90% design development.
- o Other:
  - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield).
  - Review invoices, schedules, and risk logs for consultants.
- Task 13 Electrical Power Planning
  - Continue coordination with ARWA and GVEC to develop agreement language for service to the well field.
  - Continue coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 Permit Coordination/Tracking
  - o Continue Permit coordination with Pipeline consultants
  - Coordinate with Hays County concerning the Site Development Permit.
  - General Coordination with TxDOT.
  - Coordinate with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
  - General Coordination with GVEC and BBEC.
  - On-going Permit Tracking Log Updates.
- Task 15 Procurement and Construction Phase Services



#### Alliance Water - Phase 1B Infrastructure - Owner's Representative

- On-going coordination with Segment A and BPS Design Consultants during the construction phase.
- Coordination with Segment B to prepare for procurement and preconstruction phase.
- On-going coordination with WTP and RWI Design Consultants during the construction phase.
- Task 16 Other Services
  - Finalize and submit the City of San Marcos Watershed Protection Plan for the Booster Pump Station Plat.

#### **Scope Elements Added/Removed:**

None at this time.

#### **Outstanding Issues/Concerns:**

None at this time.

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.3** Possible recommendation to the Board to contingently award a construction contract for the Authority's Phase 1B Segment B Pipeline Project. ~ *Graham Moore, P.E., Executive Director* 

#### Background/Information

Alliance Water sought proposals for the Phase 1B Segment B Pipeline Project starting in September with proposals submitted on November 12, 2021. In accordance with the Authority's policies and Texas Water Development Board (TWDB) requirements, the project was advertised for two consecutive weeks in the Hays Free Press and in the Lockhart Post-Register.

The project includes approximately 10.5-miles of 42-inch pipeline and 5.4-miles of 36-inch pipeline and related appurtenances from the end of Segment A to the Booster Pump Station and from the Booster Pump Station to the San Marcos Water Treatment Plant. The bid was setup for additive alternates of pipe material (ductile iron, concrete steel cylinder and welded steel) in both 42-inch and 36-inch diameters.

A total of three proposals were received. The bidding documents utilized a Competitive Sealed Proposal (CSP) process whereby cost is considered but so too are the qualifications of the contractor to perform the work.

#### Attachment(s)

Segment B Recommendation Presentation

#### **Technical Committee Decision Needed:**

• Possible recommendation to the Board to recommend contingently awarding the Segment B Pipeline Project to Garney Construction with Alternative C.

### **Alliance Regional Water Authority**

### **Segment B – Recommendation of Construction Award**

December 8, 2021



Meeting Agenda

### **Segment B Pipeline**

- Summary of Proposals Received
- Alternative Bid Items
- Review Team Total Combined Score
- Recommendation



# Segment B Pipeline Summary of Proposals Received

Proposal	Alt Description	Proposal Company				
Price		Carstensen	Garney	SJ Louis		
Base Proposal		\$7,410,219.35	\$7,210,026.70	\$7,239,424.10		
Alt A	Ductile Iron	No Bid	\$39,730,904.10	\$57,869,319.58		
Alt B	Reinforced Concrete	\$35,841,941.00	\$28,821,139.76	\$32,485,452.20		
Alt C	Steel Pipe	\$36,223,592.00	\$30,419,077.72	\$34,790,762.70		
Alt D	UST Removal	\$9,000.00	\$16,423.47	\$50,000.00		
Alt E	Open Cut CR 218	(\$95,000.00)	(\$56,504.94)	(\$21,000.00)		
Alt F	Open Cut CR 241	(\$68,000.00)	(\$36,398.95)	(\$16,400.00)		
Alt G	Open Cut CR 238 #1	(\$85,000.00)	(\$52,246.56)	(\$22,000.00)		
Alt H	Open Cut CR 238 #2	(\$73,000.00)	(\$89,550.54)	(\$19,000.00)		
Recommended Option (Base + Alt C)		\$43,633,811.35	\$37,629,104.42	\$42,030,186.80		



### Criteria for Selection

- Proposal Price (40 Points)
- Quality Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (20 Points)
- Key Personnel (15 Points)
- Project Approach (15 Points)
- Safety Record (5 Points)
- Historically Underutilized Business (HUB) Program Compliance Plan (5 Points)



### Review Team Total Combined Score

Criteria	Carstensen	Garney	SJ Louis
Proposal Price (40 Points)	24.8	39.8	33.1
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (20 Points)	10.2	19.0	16.6
Key Personnel (15 Points)	8.2	14.0	12.0
Project Approach (15 Points)	8.6	14.4	11.2
Safety Record (5 Points)	3.2	4.6	4.2
Historically Underutilized Business (HUB) Program Compliance Plan (5 Points)	1.4	4.8	4.2
Total (100 Points Possible)	56.4	96.6	81.3



### Recommendation

- It is the recommendation that **Garney Construction** be selected as the General Contractor for the Alliance Regional Water Authority Segment B Project.
- Award Bid Alternative C for welded steel piping.



# REGULAR MEETING Alliance Regional Water Authority Technical Committee

## **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.4** Possible recommendation to the Board to authorize a Work Order with K Friese & Associates, Inc. for construction administration services on the Authority's Phase 1B Segment B Pipeline Project. ~ *Graham Moore, P.E., Executive Director* 

## Background/Information

Alliance Water entered into a Work Order in August 2019 with K Friese & Associates, Inc. (KFA) to provide final design engineering services for the Phase 1B Segment B Pipeline project. The final design is complete and the construction notice-to-proceed is expected to be issued in January. In order to maintain progress, Staff has negotiated a scope and fee with KFA to provide construction administration and construction engineering services for the Phase 1B Segment B Pipeline project.

Below are some of the key facts regarding the proposal:

Firm: K Friese & Associates, Inc. Fee: \$621,544 (50% ARWA)

Work Order Type: Hourly, Not-to-Exceed

Anticipated Duration: 20 months Project Manager: Tom Owen, P.E.

Key Subconsultants: Plummer & Associates

Staff is requesting that the Committee recommend Board approval of a Work Order with a fee for the basic services of \$471,544.00 and a fee for supplemental effort in an amount not-to-exceed \$150,000.00 for a total fee of \$621,544. The Executive Director will be given the discretion to authorize the supplemental effort if needed.

## Attachment(s)

 September 1, 2021 - Booster Pump Station and Delivery Points Construction Phase Services.

## **Technical Committee Decision Needed:**

 Possible recommendation to the Board to approve a work order with K Friese & Associates, Inc. for Construction Phase Services on the Phase 1B Segment B Pipeline Project.



1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 TBPE Firm #6535 P - 512.338.1704 F - 512.338.1784 kfriese.com

September 1, 2021

Mr. Graham Moore, PE Executive Director Alliance Regional Water Authority 630 E. Hopkins San Marcos, TX 78666

Sent Via: E-MAIL

Re: Alliance Regional Water Authority

Phase 1B, Segment B Pipeline Construction Phase Services

Dear Mr. Moore:

K Friese + Associates (KFA) is pleased to submit our proposal for Construction Phase Services for the Phase 1B, Segment B Pipeline. We understand this phase will be performed on a time and materials basis with an approximately 20-month duration per the current Program schedule. We propose to perform the Basic Services and the Supplemental Services described in the attached Scope in accordance with the below breakdown.

TASK	AMOUNT
Basic Services	
Task 1 - Project Management	\$35,052
Task 2 - Regulatory Agency Coordination and Permits	\$6,516
Task 3 - Public Utility Coordination	\$5,482
Task 4 - Fiber Coordination	9,700
Task 5 - Adjacent Design Consultant Coordination	\$14,421
Task 6 - Construction Site Visits and Progress Meetings	\$130,841
Task 7 - Construction Coordination	\$51,843
Task 8 - Shop Drawing/Submittal Review	\$59,298
Task 9 - Alternatives and Substitutions	\$18,838
Task 10 - Request for Information (RFIs)	\$22,225
Task 11 - Request for Proposals (RFPs) and Change	\$38,083
Orders (COs)	
Task 12 - Substantial/Final Completion Walk-Throughs	\$22,718
Task 13 - Record Drawings and Corrosion Services	\$56,526
Subtotal	\$471,544
Supplemental Services	\$150,000
Total	\$621,544

Mr. Graham Moore, P.E. September 1, 2021 Page 2 of 2

We look forward to working on the next phase of this project and very much appreciate the opportunity. If you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,

Thomas M Owens, P.E.

TOM-O-S

**Project Manager** 

## Alliance Regional Water Authority – Phase 1B Construction Phase Pipeline Scope Segment B Pipeline

- 1. Project Management
  - 1.1. Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase 1B Program Management Plan (20 Summary Reports/Invoices)
  - 1.2. Meetings
    - 1.2.1. Quality Control Audit (1 workshop)
    - 1.2.2. Training and coordination meeting on Construction Management & Inspection Team (CM&I) Electronic Document Management System (EDMS)
- 2. Regulatory Agency Coordination and Permits, including agenda and meeting minutes
  - 2.1. Texas Commission on Environmental Quality (two one-hour virtual meetings or phone conf.)
  - 2.2. Texas Water Development Board (two one-hour virtual meetings or phone conf.)
  - 2.3. Caldwell County (two one-hour virtual meetings or phone conf.)
  - 2.4. Texas Department of Transportation (two one-hour virtual meetings or phone conf.)
  - 2.5. City of San Marcos (one one-hour virtual meeting of phone conf.)
  - 2.6. City of Lockhart (one one-hour virtual meeting of phone conf.)
  - 2.7. Plum Creek Conservation District (one one-hour virtual meeting of phone conf.)
- 3. Public Utility Coordination, including agenda and meeting minutes
  - 3.1. Bluebonnet Electric Cooperative (two one-hour virtual meetings or phone conferences)
  - 3.2. LCRA (two one-hour virtual meetings or phone conferences)
  - 3.3. Central Texas Regional Water Supply Corporation (one one-hour virtual meeting or phone conference)
  - 3.4. Maxwell Water Supply Corporation (two one-hour virtual meetings or phone conferences)
- 4. Fiber Coordination
  - 4.1. Coordination with Segment A and Pump Station Contractors and/or Consultants related to fiber installation. Coordination includes up to two site visits.
- 5. Adjacent Design Consultant Coordination (if required, site visits included in Specialty Observations site visit quantity)
  - 5.1. Coordination for connections with Pipeline Segment A and Segment D Consultants, Pump Station Design Consultant, San Marcos Water Treatment Plant Design Consultant.
- 6. Construction Site Visits and Progress Meetings
  - 6.1. Pre-Construction Meeting
    - 6.1.1. Attend a pre-construction meeting coordinated by the Construction Management and Inspection (CM&I) team.
    - 6.1.2. Attend separate SH-130 pre-construction meeting coordinated by the Construction CM&I team.
  - 6.2. Monthly Site Observation (20 Site Visits same day as Construction Meetings)
    - 6.2.1. Site observations will be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during site visits, Consultant will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents, and Consultant will keep Client informed of the general progress of the work. Consultant is not required to make exhaustive or continuous inspections to check the quality or quantity of the Work. In this effort, Consultant will endeavor to protect the Owner against defects and deficiencies in the work of Contractor



and will report any observed deficiencies to CM&I. Consultant's visits and observations are subject to the limitations on Consultant's authority and responsibility described in the General Conditions.

Consultant will not supervise, direct, or have control over Contractor's work, nor shall Consultant have authority to stop the Work or have responsibility for the means, methods, techniques, equipment choice and usage, schedules, or procedures of construction selected by Contractor, for safety programs incident to Contractor's work, or for any failure of Contractor to comply with any laws. Consultant does not guarantee the performance of any Contractor and has no responsibility for Contractor's failure to perform its work in accordance with the Contract Documents. Consultant is to inform the CM&I of issues or concerns and CM&I is to work with Contractor to address these issues or concerns.

- 6.2.2. Site observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit.
- 6.2.3. Notify CM&I team of inconsistencies with observed worked with respect to Contract Documents.
- 6.2.4. Specialty Observations will be limited to spot checking, selective measure, and similar methods of general observations for observation of equipment requiring additional observations beyond the monthly observations. (18 Specialty Observations)
- 6.2.5. Specialty Observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit.
- 6.2.6. Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.
- 6.3. Monthly Construction Progress Meetings (20 Construction Meetings same day as Site Visits)
  - 6.3.1. Attend Progress Meetings led by the CM&I team. Discuss status of document reviews, proposed contract modifications and any issues or concerns that need to be addressed to allow construction of the project to progress.
  - 6.3.2. Review Project Decision Register and Action Item Register prior to each meeting. Report discrepancies in the Project Decision Register to the CM&I team immediately. Update the status on Action Items at least 10 days before meetings.
  - 6.3.3. Review monthly Construction Activity Reports prepared by the CM&I team. Provide feedback on report content as appropriate.

#### 7. Construction Coordination

- 7.1. Regular coordination with Owner's Representative and CM&I group as required to facilitate administration of the project.
- 7.2. Participate in project quality audits as necessary, and implementation of agreed corrective actions. Attend up to four meetings related to quality issues during construction.
- 7.3. Review monthly construction pay applications and make recommendations for payment
- 7.4. Review monthly schedules to confirm compliance with Contract dates and key milestones
- 7.5. Review monthly as-builts provided by Contractor.
- 7.6. Utilize EDMS for upload/download of all construction-related documentation.



#### 8. Shop Drawing/Submittal Review

8.1. Review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 10 working days. For the purposes of this scope, assume review effort will include the original submittal and first resubmittal. Assume up to 60 submittals.

#### 9. Alternatives and Substitutions

9.1. Review alternatives and substitutions proposed by Contractor. Recommend acceptance or rejection of the request for substitutions within 14 calendar days. Assume up to 10 substitution reviews.

## 10. Request for Information (RFIs)

10.1. Review Contractor questions or concerns that may arise during construction and respond within 5 calendar days. Assume up to 20 RFIs

## 11. Request for Proposals (RFPs) and Change Orders (COs)

- 11.1. Coordinate with CM&I to prepare a description of proposed Modifications. CM&I will issue the RFP form to Contractor through the EDMS. Assume up to 10 RFPs
- 11.2. Coordinate with CM&I for review and response to RFP and provide recommendations to the Owner's Representative for consideration. Assume up to 10 RFPs
- 11.3. Review Change Order prepared by the CM&I team. Assume up to 10 Change Orders, not including the Final Change Order
- 11.4. Prepare final Change Order (over and unders) recapitulation of the Project in conjunction with the final pay request

## 12. Substantial/Final Completion Walk-Throughs

- 12.1. Consultant to conduct two (2) substantial completion walk-throughs/inspections, one for Segment B2 and one for Segment B1, coordinated by the CM&I. After considering any objections from Owner's Representative, if the Consultant considers the work substantially complete, Consultant will submit a Substantial Completion punch list and letter to the Owner's Representative.
- 12.2. Consultant to conduct one (1) final completion walk-through/inspection (coordinated by the CM&I) to determine if the completed work of Contractor is acceptable to both the Owner's Representative and Consultant so that Consultant may recommend, in writing, the final payment to the Contractor.

## 13. Record Drawings and Corrosion Services

- 13.1. Consultant will prepare Contract Record Drawings using the marked up red lines drawings provided by the Contractor during construction. Record drawing information will be based solely on the provided red line drawings and appropriate field documentation received from the Consultant and the CM&I group during construction site visits. Items associated with this work include:
  - 13.1.1. Prepare Record Drawings of the constructed project based on change order revisions, RFI responses, and as built information provided by the contractor.
  - 13.1.2. Provide the Owner's Representative:
    - 13.1.2.1. With one (1) set of Record Drawings in .pdf and .dwg electronic format.
    - 13.1.2.2. The DWG file with the reference state plane coordinate system for use by ARWA.



- 13.2. Corrosion Investigation, Data Collection and Design Support
  - 13.2.1. Post Construction Corrosion Services
    - 13.2.1.1. Attend a pre-commissioning site visit prior to testing
      - 13.2.1.1.1. Conduct an alignment walk-thru and develop punch list of deficient ltems
      - 13.2.1.1.2. Check continuity and isolation along pipeline
    - 13.2.1.2. Commissioning/Testing
      - 13.2.1.2.1. Attend and witness testing performed by contractor
      - 13.2.1.2.2. Prepare a Commissioning Report and develop post-commissioning punchlist

### 14. Supplemental

- 14.1. Survey
  - 14.1.1. Verify/Reset horizontal and vertical control points for construction purposes
- 14.2. General Construction Phase Services, which may include:
  - 14.2.1. Additional site visits.
  - 14.2.2. Providing services to review or evaluate Contractor claims that are not due to causes within the control of Consultant (three claims).
  - 14.2.3. Assisting Owner in preparing for, or appearing at litigation, mediation, arbitration, dispute review boards, or other legal and/or administrative proceedings in the defense or prosecution of claims disputes with Contractor.
  - 14.2.4. Assisting Owner in the defense or prosecution of litigation in connection with or in addition to those services contemplated by this Agreement.
  - 14.2.5. Any services required as a result of default of the Contractor or the failure, for any reason, of the Contractor to complete the work within the Contract Time.
- 14.3. Attend additional meetings in the vicinity of the project (5 meetings)
- 14.4. Review additional submittals and/or RFIs
  - 14.4.1. Review up to 40 additional submittals
  - 14.4.2. Review up to 5 additional RFIs
- 14.5. Additional Post Construction Corrosion Services

## 15. Assumptions

- 15.1. Construction phase services will occur over a 20-month period.
- 15.2. CM&I Team will verify all pay application quantities prior to being sent for review
- 15.3. Construction coordination with TWDB beyond that described in Item 2 will be performed by the Program and/or CM&I Team.
- 15.4. Record drawing information will be provided by the Contractor and CM&I group at Substantial Completion. Pipeline Segment B1 and B2 Record Drawings will be developed together, following Substantial Completion of both pipe segments.
- 15.5. Record Drawing coordinate system will match the coordinate system used in the design plans.



Alliance Water Phase 1B Program		Project Fee Summary	
Pipeline Consultant	Basic Effort	\$	471,544
9/1/2021	Supplement	.i \$	150,000
Detailed Overall K Friese + Associates Cost Breakdown	Total Effort	\$	621,544

Task	Employee						Total Labor	Total			Drianley			Total Sub		
	-	roject Manager Senior Engine			Admin	Total Hours	Total Labor Effort	Expens		Plummer	Brierley Associates	Chapman	SAM, Inc.	Total Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$290.00 \$240.00	\$125.00	\$110.00 \$110.00	\$90.00			Effort								
	Task 1 - Project Management						\$ 23,080	) \$	- !	\$ 5,442	\$ 5,720	\$ 810	\$ -	\$ 11,972	\$ 35,052	
1.1	Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase	16 44			20	80	\$ 17,000			\$ 3,510	\$ 5,280	•		\$ 9,600	,	20 months
	1B Program Management Plan	10 44			20		_			, ,	•	•		,	,	20 months
1.2 1.2.1	Meetings Quality Control Audit (1 workshop)	4 8		4		0 16	\$ 3,520	T	- S	\$ - \$ 936	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ 4,456	
	Training and coordination meeting on Construction Management & Inspection	. 0					Ψ 0,02			Ψ 000	Ψ	Ψ	Ψ		,	
1.2.2	Team (CM&I) Electronic Document Management System (EDMS)	4 4		4		12	\$ 2,560	) \$	- (	\$ 996	\$ 440	\$ -	\$ -	\$ 1,436	\$ 3,996	
	Task 2 - Regulatory Agency Coordination and Permits						\$ 5,580	) \$	- 9	\$ 936	\$ -	\$ -	\$ -	\$ 936	\$ 6,516	
2.1	Texas Commission on Environmental Quality (two one-hour virtual meetings or	3		3		6	\$ 1,050	) \$	- 9	\$ -	\$ -	\$ -	\$ -	\$ -		Included time for agenda and minutes
	phone conf.) Texas Water Development Board (two one-hour virtual meetings or phone	-					,			*	<b>*</b>	•	*	<b>*</b>		, and the second
2.2	conf.)	3		3		6	\$ 1,050	) \$	- 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050	Included time for agenda and minutes
2.3	Caldwell County (two one-hour virtual meetings or phone conf.)	3		3		6	\$ 1,050	) \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050	Included time for agenda and minutes
2.4	Texas Department of Transportation (two one-hour virtual meetings or phone conf.)	3		3		6	\$ 1,050	) \$ ·	- 5	\$ 468	\$ -	\$ -	\$ -	\$ 468	\$ 1,518	Included time for agenda and minutes
2.5	City of San Marcos (one one-hour virtual meeting of phone conf.)	1		2		3	\$ 460	) \$	- 5	\$ 468	\$ -	\$ -	\$ -	\$ 468		Included time for agenda and minutes
2.6	City of Lockhart (one one-hour virtual meeting of phone conf.)	1		2		3	\$ 460	) \$	- 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 460	Included time for agenda and minutes
2.7	Plum Creek Conservation District (one one-hour virtual meeting of phone conf.)	1		2		3	\$ 460	\$	- 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 460	Included time for agenda and minutes
	Task 3 - Public Utility Coordination						\$ 3,610	) \$	- 5	\$ 1,872	\$ -	\$ -	\$ -	\$ 1,872	\$ 5,482	
3.1	Bluebonnet Electric Cooperative (two one-hour virtual meetings or phone	3		3		6	\$ 1,050	) \$	- 5	\$ 468	\$ -	\$ -	\$ -	\$ 468	\$ 1.518	Included time for meeting minutes
3.2	conferences)  LCRA (two one-hour virtual meetings or phone conferences)	3		3		6	\$ 1,050		- 5	\$ 468	\$ -	\$ -	\$ -	\$ 468		Included time for meeting minutes
3.3	Central Texas Regional Water Supply Corporation (one one-hour virtual	1		2		3	\$ 460			\$ 468	¢	\$ -	•	\$ 468		Included time for meeting minutes
3.3	meeting or phone conference)	'		2		ა	<b>Φ</b> 400	J \$ .	-   `	<b>ф</b> 400	ъ -	<b>Ф</b> -	\$ -	\$ 400	\$ 920	included time for meeting minutes
3.4	Maxwell Water Supply Corporation (two one-hour virtual meetings or phone conferences)	3		3		6	\$ 1,050	) \$ ·	- 5	\$ 468	\$ -	\$ -	\$ -	\$ 468	\$ 1,518	Included time for meeting minutes
	Task 4 - Fiber Coordination						\$ 9,600	0 \$ 1	100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,700	
4.1	Coordination with Segment A and Pump Station Contractors and/or	40				40	\$ 9,600	0 \$ 1	100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,700	Two site visits
	Consultants related to fiber installation  Task 5 - Adjacent Design Consultant Coordination						\$ 11,800	) \$	- 9	\$ 2,621	\$ -	\$ -	\$ -	\$ 2,621	\$ 14,421	
	Coordination for connections with Pipeline Segment A and Segment D										•	,				
5.1	Consultants, Pump Station Design Consultant, San Marcos Water Treatment Plant Design Consultant.	40		20		60	\$ 11,800	) \$	-   9	\$ 2,621	\$ -	\$ -	\$ -	\$ 2,621	\$ 14,421	required site visits under 6.2.4
	Task 6 - Construction Site Visits and Progress Meetings						\$ 97,130	) \$ 2,0	050	\$ 16,987	\$ 14,674	\$ -	\$ -	\$ 31,661	\$ 130,841	
6.1	Pre-Construction Meeting					0	\$ -	\$ .	- ;	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.1.1	Attend a pre-construction meeting coordinated by the Construction  Management and Inspection (CM&I) team.	6 8		8		22	\$ 4,540	\$	50	\$ 996	\$ -	\$ -	\$ -	\$ 996	\$ 5,586	
6.1.2	Attend separate SH-130 pre-construction meeting coordinated by the	8		8		16	\$ 2,800	n ¢	50 \$	\$ -	\$ 1,531	\$ -	\$ -	\$ 1,531	\$ 4,381	
	Construction CM&I team.	0		0			_	1		_	_	_	_		•	
6.2	Monthly Site Observation  Site observations will be limited to spot checking, selective measurement,					0	\$ -	Ť	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.2.1	and similar methods of general observation.	16 56	16	16		104	\$ 21,840	\$ 4	450	\$ 1,992	\$ 5,222	\$ -	\$ -	\$ 7,214	\$ 29,504	18 for KFA, 2 for Plummer
6.2.2	Site observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours	4 8	4	4		20	\$ 4.00	5 \$	_ [,	\$ 468	\$ 660	\$ -	\$ -	\$ 1,128	\$ 5,148	
0.2.2	of each site visit.	7 0	4	7		20	Ψ 4,020	Ψ .	- [`	ψ 400	ψ 000	Ψ -	Ψ -	φ 1,120	ψ 5,146	
6.2.3	Notify CM&I team of inconsistencies with observed worked with respect to	4 8	4	8		24	\$ 4.460	) \$	- 5	\$ 1,498	\$ 880	\$ -	\$ -	\$ 2,378	\$ 6,838	
	Contract Documents.		-	-			,	-   -	$-\mathbb{F}$	,		•	<u> </u>			
6.2.4	Specialty Observations will be limited to spot checking, selective measure, and similar methods of general observations for observation of equipment	12 36	18	18		84	\$ 16,350	1 8	300	\$ 5,856	\$ 2,611	\$ -	\$ -	\$ 8,467	\$ 25./17	KFA = 12, Plummer = 4, BA = 2
0.2.7	requiring additional observations beyond the monthly observations.	12 30	10			<del></del>	Ψ 10,000			ų 0,000	Ψ 2,011	· -	_	Ψ 0,407	20,717	7. 7 12, 1 Million - 4, DA - 2
	Specialty Observation reports will be prepared and provided to the CM&I															
6.2.5	team via the CM&I Electronic Document Management System (EDMS) within	4 12	6	6		28	\$ 5,450	) \$ ·	- 5	\$ 1,872	\$ 330	\$ -	\$ -	\$ 2,202	\$ 7,652	
	48 hours of each site visit.  Notify CM&I team of inconsistencies with observed work with respect to								-							
6.2.6	Contract Documents.	4 8	2	2		16	\$ 3,550	\$	- 3	\$ 1,498	\$ 440	\$ -	\$ -	\$ 1,938	\$ 5,488	
6.3	Monthly Construction Progress Meetings					0	\$ -	\$	- ;	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Attend Progress Meetings led by the CM&I team. Discuss status of document reviews, proposed contract modifications and any issues or							. ] .							l.	
6.3.1	concerns that need to be addressed to allow construction of the project to	16 56	24	24		120	\$ 23,720	\$ 9	900	\$ 1,872	\$ 1,000	\$ -	\$ -	\$ 2,872	\$ 27,492	18 for KFA, 2 for Plummer
	progress.															



9/1/2021

Alliance Water Phase 1B Program			Project Fee Summary	
Pipeline Consultant	Ва	Basic Effort	\$	471,544
9/1/2021	Su	Supplemental	\$	150,000
Detailed Overall K Friese + Associates Cost Breakdown	То	otal Effort	\$	621,544

Task	Employee							Tata	I I ahan	Total			Dulaulau			Tatal Cub		
	Project Role	Project Manager	Senior Engineer	Project Engineer	EIT CADD Operator	Admin	Total Hours		l Labor ffort	Expens		Plummer	Brierley Associates	Chapman	SAM, Inc.	Total Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$290.00	\$240.00	\$125.00	\$110.00 \$110.00	\$90.00				Effort			71000014100			2.11011		
	Review Project Decision Register and Action Item Register prior to each																	
6.3.2	meeting. Report discrepancies in the Project Decision Register to the CM&I team immediately. Update the status on Action Items at least 10 days before	8	12				20	\$	5,200	\$ -		468	\$ 1,000	\$ -	\$ -	\$ 1,468	\$ 6,668	
	meetings.																	
6.3.3	Review monthly Construction Activity Reports prepared by the CM&I team.	8	12				20	\$	5,200	\$	. 9	468	\$ 1,000	\$ -	\$ -	\$ 1,468	\$ 6,668	
0.0.0	Provide feedback on report content as appropriate.		1.2				20	Φ	45,720		`		· · · · ·		Φ.			
	Task 7 - Construction Coordination  Regular coordination with Owner's Representative and CM&I group as required							\$			00 \$			\$ -	\$ -	\$ 5,923		
	to facilitate administration of the project.	16	40	8	16		80	\$	17,000	\$ -		1,872	\$ -	\$ -	\$ -	\$ 1,872	\$ 18,872	4 hrs/mo
	Participate in project quality audits as necessary, and implementation of agreed																	
7.2	corrective actions. Attend up to four meetings related to quality issues during construction.	8	32	16	16		72	\$	13,760	\$ 2	00 \$	1,618	\$ -	\$ -	\$ -	\$ 1,618	\$ 15,578	
7.0	Review monthly construction pay applications and make recommendations for		40	40	40		40		0.000	•		1 010	Φ.	Φ.	Φ.	<b>A</b> 4.040	<b>*</b> 7.070	
1.3	payment		16	12	12		40	\$	6,660	\$ -	4	1,310	\$ -	\$ -	\$ -	\$ 1,310	\$ 7,970	
7.4	Review monthly schedules to confirm compliance with Contract dates and key		8	4	8		20	\$	3,300	\$ -	.   9	562	\$ -	\$ -	\$ -	\$ 562	\$ 3,862	
7.5	milestones  Review monthly as-builts provided by Contractor.	4	16				20	\$	5,000	\$ -	. 9	562	\$ -	\$ -	\$ -	\$ 562	\$ 5,562	
			10				0	•	,	¢					Φ	¢ 002	¢ 0,002	
7.6	Utilize EDMS for upload/download of all construction-related documentation.						U	Þ	-	φ -		-	\$ -	\$ -	\$ -	Φ -	φ -	
	Task 8 - Shop Drawings(submittal Review							\$	41,000	\$ -	. 9	4,118	\$ 13,100	\$ 1,080	\$ -	\$ 18,298	\$ 59,298	
	Review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 10 working days. For the purposes				100				4									40 for KFA, 20 split between BA,
	of this scope, assume review effort will include the original submittal and first	20	80	40	100		240	\$	41,000	\$ -		4,118	\$ 13,100	\$ 1,080	\$ -	\$ 18,298	\$ 59,298	Chapman, Plummer - 4 hrs each with 50% resubmittal
	resubmittal. Assume up to 60 submittals.								44.400	•	4	1 100	<b>*</b> 0.000	<b>A</b> 4 400	<b>A</b>	<b>A</b> 4.070	40.000	
	Task 9 - Alternatives and Substitutions  Review alternatives and substitutions proposed by Contractor. Recommend							\$	14,160	\$ -		1,498	\$ 2,000	\$ 1,180	\$ -	\$ 4,678	\$ 18,838	
	acceptance or rejection of the request for substitutions within 14 calendar days.	16	24	16	16		72	\$	14,160	\$ -	. 9	1,498	\$ 2,000	\$ 1,180	\$ -	\$ 4,678	\$ 18,838	7 for KFA plus coordination, 1 Plummer,
	Assume up to 10 substitution reviews.							·	·			,	, ,	·	·			1 BA, 1 Chapman
	Task 10 - Request for Information (RFIs)							\$	12,640	\$ -	. \$	2,995	\$ 6,000	\$ 590	\$ -	\$ 9,585	\$ 22,225	Ad for ICEA when a continuition A
	Review Contractor questions or concerns that may arise during construction and respond within 5 calendar days. Assume up to 20 RFIs	4	40	8	8		60	\$	12,640	\$ -	. \$	2,995	\$ 6,000	\$ 590	\$ -	\$ 9,585	\$ 22,225	11 for KFA plus coordination, 4 Plummer, 4 BA, 1 Chapman
	Task 11 - Request for Proposals (RFPs) and Change Orders (COs)							\$	29,280	\$ -	. \$	5,803	\$ 3,000	\$ -	\$ -	\$ 8,803	\$ 38,083	rammor, 1974, 1911apman
	Coordinate with CM&I to prepare a description of proposed Modifications.		40				00		40.040	•						4 005	47.005	7.754 0.01
11.1	CM&I will issue the RFP form to Contractor through the EDMS. Assume up to 10 RFPs	4	40	8	8		60	\$	12,640	\$ -		2,995	\$ 2,000	\$ -	\$ -	\$ 4,995	\$ 17,635	7 KFA, 2 Plummer, 1 BA
	Coordinate with CM&I for review and response to RFP and provide																	
11.2	recommendations to the Owner's Representative for consideration. Assume up	2	20	4	4		30	\$	6,320	\$ -	. \$	1,872	\$ 1,000	\$ -	\$ -	\$ 2,872	\$ 9,192	7 KFA, 2 Plummer, 1 BA
	to 10 RFPs  Review Change Order prepared by the CM&I team. Assume up to 10 Change										-							
11.3	Orders, not including the Final Change Order	4	24	8	4		40	\$	8,360	\$ -	. \$	468	\$ -	\$ -	\$ -	\$ 468	\$ 8,828	
	Prepare final Change Order (over and unders) recapitulation of the Project in		4	8			12	\$	1,960	\$	. 9	468	\$ -	\$ -	\$ -	\$ 468	\$ 2,428	
	conjunction with the final pay request  Task 12 - Substantial/Final Completion Walk-Throughs		7	Ü			12	•	18,640	Ť	50 \$			*		\$ 3,928	, -	
	Consultant to conduct two (2) substantial completion walk-							Ф	10,040	φ 1	30 \$	2,928	φ 1,000	\$ -	\$ -	ф 3,928	φ 22,718	
	throughs/inspections, one for Segment B2 and one for Segment B1,																	
	coordinated by the CM&I. After considering any objections from Owner's	12	16	16			44	\$	9,320	\$ 1	00 \$	1,932	\$ 1,000	\$ -	\$ -	\$ 2,932	\$ 12,352	
	Representative, if the Consultant considers the work substantially complete, Consultant will submit a Substantial Completion punch list and letter to the																	
	Owner's Representative.																	
	Consultant to conduct one (1) final completion walk-through/inspection																	
12.2	(coordinated by the CM&I) to determine if the completed work of Contractor is	12	16	16			44	\$	9,320	\$	50 \$	996	\$ -	\$ -	\$ -	\$ 996	\$ 10,366	
	acceptable to both the Owner's Representative and Consultant so that Consultant may recommend, in writing, the final payment to the Contractor.		. •				• •		-,023	•				•	<b>_</b>			
								¢.	20.000	<b>.</b>	00 4	0.000	<b>e</b> 000	e 40.070	¢.	e 00.040	¢ 50,500	
	Task 13 - Record Drawings and Corrosion Services							Ф	32,380	<b>\$</b> 2	00 \$	6,396	\$ 880	\$ 16,670	<b>5</b> -	\$ 23,946	\$ 56,526	
	Consultant will prepare Contract Record Drawings using the marked up red lines drawings provided by the Contractor during construction. Record drawing																	
13.1	information will be based solely on the provided red line drawings and						0	\$	-	\$ -	. \$	5 -	\$ -	\$ -	\$ -	\$ -	\$ -	
	appropriate field documentation received from the Consultant and the CM&I																	
	group during construction site visits. Items associated with this work include:							L			_ [						<u> </u>	<u> </u>
40.4.	Prepare Record Drawings of the constructed project based on change order						055		05.011									104 Shts KFA (not including TCP
13.1.1	revisions, RFI responses, and as built information provided by the contractor.	4	8	40	156		208	\$	25,240	\$ -	9	6,136	\$ 880	\$ 3,240	\$ -	\$ 10,256	\$ 35,496	details), 47 Plummer, 3 BA, 3 Chapman
13.1.2	Provide the Owner's Representative:						0	\$	-	\$ -	. \$	5 -	\$ -	\$ -	\$ -	\$ -	\$ -	
			1	1	1		-	• • • • • • • • • • • • • • • • • • • •										•



9/1/2021

Alliance Water Phase 1B Program			Project Fee Summary	
Pipeline Consultant	Ва	Basic Effort	\$	471,544
9/1/2021	Su	Supplemental	\$	150,000
Detailed Overall K Friese + Associates Cost Breakdown	То	otal Effort	\$	621,544

Task	Employee							Ι_		Total								
	Project Role Project Manager	Senior Engineer	Project Engineer	EIT	CADD Operator	Admin	Total Hours		tal Labor Effort	Expense	Plumme	Brierley Associate	Chanma	SAM, In		tal Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate \$290.00	\$240.00	\$125.00	\$110.00	\$110.00	\$90.00				Effort								
13.1.2.1	With one (1) set of Record Drawings in .pdf and .dwg electronic format.	4	4		8		16	\$	2,340	\$ -	\$ 13	0 \$ -	\$ 13	5 \$ -	\$	265	\$ 2,605	
13.1.2.2	The DWG file with the reference state plane coordinate system for use by ARWA.						0	\$	-	\$ -	\$ 1:	0 \$ -	\$ 13	5 \$ -	\$	265	\$ 265	
13.2	Corrosion Investigation, Data Collection and Design Support						0	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	
13.2.1	Post Construction Corrosion Services						0	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	
13.2.1.1	Attend a pre-commissioning site visit prior to testing						0	\$	-	\$ -	\$ -	\$ -	\$ 1,08	0 \$ -	\$	1,080	\$ 1,080	
13.2.1.1.1	Conduct an alignment walk-thru and develop punch list of deficient Items	8					8	\$	1,920	\$ 100	\$ -	\$ -	\$ 4,32	:0 \$ -	\$	4,320	\$ 6,340	
13.2.1.1.2	Check continuity and isolation along pipeline						0	\$	-	\$ -	\$ -	\$ -	\$ 3,24	0 \$ -	\$	3,240	\$ 3,240	
13.2.1.2	Commissioning/Testing						0	\$		\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	
13.2.1.2.1	Attend and witness testing performed by contractor	8					8	\$	1,920	\$ 100	\$ -	\$ -	\$ 2,16	0 \$ -	\$	2,160	\$ 4,180	
13.2.1.2.2	Prepare a Commissioning Report and develop post-commissioning punchlist	4					4	\$	960	\$ -	\$ -	\$ -	\$ 2,36	50 \$ -	\$	2,360	\$ 3,320	
	14. Supplemental Services							\$	56,763	\$ 250	\$ 21,3	8 \$ 21,8	1 \$ 6,88	0 \$ 42,9	78 \$	92,987		
14.1	Survey							\$	2,120	\$ -	\$ -	\$ -	\$ -	\$ 42,9	78 \$	42,978	\$ 45,098	
	General Construction Phase Services, which may include:							\$	16,560	\$ -		0 \$ 15,00	0 \$ 3,44	0 \$ -	\$	33,440	. ,	
	Attend additional meetings in the vicinity of the project (5 meetings)							\$	6,030	\$ 250			1 \$ -	\$ -	\$	1,747		
14.4	Review additional submittals and/or RFIs							\$	27,053	\$ -	\$ 5,3	2 \$ 6,00	0 \$ -	\$ -	\$	11,382	\$ 38,435	
14.5	Additional Post Construction Corrosion Services							\$	5,000	\$ -	\$ -	\$ -	\$ 3,44	.0	\$	3,440	\$ 8,440	
								\$	56,763	\$ 250	\$ 21,3	8 \$ 21,8	1 \$ 6,88	0 \$ 42,9	78 \$	92,987	\$ 150,000	
		•	•		•	•	Basic Services	\$	344,620	\$ 2,700	\$ 57,5	0 \$ 46,3	4 \$ 20,3	80 \$	\$	124,224	\$ 471,544	
							Grand Total	\$	401,383	\$ 2,950	\$ 78,8	8 \$ 68,1	5 \$ 27,2	.0 \$ 42,9	78 \$	217,211	\$ 621,544	



9/1/2021

## **SUBCONSULTANT PROPOSALS**

## PLUMMER

=			
Alliance Water Phase 1B Program		Project Fee Summary	
Pipeline Consultant	Basic Effort	\$	57,520
8/31/2021	Supplemental	\$	21,318
Detailed SUBCONSULTANT Cost Breakdown	Total Effort	\$	78,838

Task	Employee Project Role Hourly Bill Rate	Guerra PM \$234.00	Ramos EIT \$140.40	CAD \$130.00	Total Hours	To	otal Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Task 1 - Project Management					\$	5,382	\$ 60	\$ 5,442	
1.1	Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase	15			15	\$		\$ -	\$ 3,510	
1.2	1B Program Management Plan	10								
1.2.1	Meetings Quality Control Audit (1 workshop)	4			0 4	\$	936	\$ - \$ -	\$ - \$ 936	
1.2.2	Training and coordination meeting on Construction Management & Inspection	4			4	\$	936	\$ 60	\$ 996	
1.2.2	Team (CM&I) Electronic Document Management System (EDMS)	4			4				,	
	Task 2 - Regulatory Agency Coordination and Permits  Texas Commission on Environmental Quality (two one-hour virtual meetings or					\$	936	\$ -	\$ 936	
2.1	phone conf.)				0	\$	-	\$ -	\$ -	
2.2	Texas Water Development Board (two one-hour virtual meetings or phone				0	\$	-	\$ -	\$ -	
2.3	conf.)  Caldwell County (two one-hour virtual meetings or phone conf.)				0	\$	_	\$ -	\$ -	
	Texas Department of Transportation (two one-hour virtual meetings or phone					<u> </u>			*	
2.4	conf.)	2			2	\$	468	\$ -	\$ 468	
2.5 2.6	City of San Marcos (one one-hour virtual meeting of phone conf.)  City of Lockhart (one one-hour virtual meeting of phone conf.)	2			0	\$	468	\$ - \$ -	\$ 468 \$ -	
						<u> </u>				
2.7	Plum Creek Conservation District (one one-hour virtual meeting of phone conf.)				0	\$		\$ -	\$ -	
	Task 3 - Public Utility Coordination					\$	1,872	\$ -	\$ 1,872	
3.1	Bluebonnet Electric Cooperative (two one-hour virtual meetings or phone conferences)	2			2	\$	468	\$ -	\$ 468	
3.2	LCRA (two one-hour virtual meetings or phone conferences)	2			2	\$	468	\$ -	\$ 468	
3.3	Central Texas Regional Water Supply Corporation (one one-hour virtual	2			2	\$	468	\$ -	\$ 468	
	meeting or phone conference)  Maxwell Water Supply Corporation (two one-hour virtual meetings or phone					<u> </u>		•	,	
3.4	conferences)	2			2	\$	468	\$ -	\$ 468	
	Task 4 - Fiber Coordination					\$	-	\$ -	\$ -	
4.1	Coordination with Segment A and Pump Station Contractors and/or Consultants related to fiber installation				0	\$	-	\$ -	\$ -	
	Task 5 - Adjacent Design Consultant Coordination					\$	2,621	\$ -	\$ 2,621	
	Coordination for connections with Pipeline Segment A and Segment D					ľ				
5.1	Consultants, Pump Station Design Consultant, San Marcos Water Treatment	4	12		16	\$	2,621	\$ -	\$ 2,621	
	Plant Design Consultant.  Task 6 - Construction Site Visits and Progress Meetings					\$	16,567	\$ 420	\$ 16,987	
6.1	Pre-Construction Meeting				0	\$	-	\$ -	\$ -	
6.1.1	Attend a pre-construction meeting coordinated by the Construction	4			4	\$	936	\$ 60	\$ 996	
	Management and Inspection (CM&I) team.  Attend separate SH-130 pre-construction meeting coordinated by the					<u> </u>				
6.1.2	Construction CM&I team.				0	\$	-	\$ -	\$ -	
6.2	Monthly Site Observation				0	\$	-	\$ -	\$ -	
6.2.1	6.2.1. Site observations will be limited to spot checking, selective measurement, and similar methods of general observation.	8			8	\$	1,872	\$ 120	\$ 1,992	
	Site observation reports will be prepared and provided to the CM&I team via					1				
6.2.2	the CM&I Electronic Document Management System (EDMS) within 48 hours	2			2	\$	468	\$ -	\$ 468	
	of each site visit.  Notify CM&I team of inconsistencies with observed worked with respect to					1				
6.2.3	Contract Documents.	4	4		8	\$	1,498	\$ -	\$ 1,498	
	Specialty Observations will be limited to spot checking, selective measure,									
6.2.4	and similar methods of general observations for observation of equipment	24			24	\$	5,616	\$ 240	\$ 5,856	
	requiring additional observations beyond the monthly observations.  Specialty Observation reports will be prepared and provided to the CM&I									
6.2.5	team via the CM&I Electronic Document Management System (EDMS) within	8			8	\$	1,872	\$ -	\$ 1,872	
	48 hours of each site visit.					ļ				
6.2.6	Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.	4	4		8	\$	1,498	\$ -	\$ 1,498	
6.3	Monthly Construction Progress Meetings				0	\$	-	\$ -	\$ -	
	Attend Progress Meetings led by the CM&I team. Discuss status of document									
6.3.1	reviews, proposed contract modifications and any issues or concerns that	8			8	\$	1,872	\$ -	\$ 1,872	
	need to be addressed to allow construction of the project to progress.									
	Review Project Decision Register and Action Item Register prior to each									
6.3.2	meeting. Report discrepancies in the Project Decision Register to the CM&I team immediately. Update the status on Action Items at least 10 days before	2			2	\$	468	\$ -	\$ 468	
	team immediately. Update the status on Action Items at least 10 days before meetings.					1				
6.3.3	Review monthly Construction Activity Reports prepared by the CM&I team.	2			2	\$	468	s -	\$ 468	
0.0.0	Provide feedback on report content as appropriate.	۷.							•	
	Task 7 - Construction Coordination  Regular coordination with Owner's Representative and CM&I group as required					\$		\$ 120	\$ 5,923	
7.1	to facilitate administration of the project.	8	<u>L</u>		8	\$	1,872	\$ -	\$ 1,872	<u> </u>
7.0	Participate in project quality audits as necessary, and implementation of agreed	-	· .							
7.2	corrective actions. Attend up to four meetings related to quality issues during construction.	4	4		8	\$	1,498	\$ 120	\$ 1,618	
7.2	Review monthly construction pay applications and make recommendations for	2			0	\$	4 040	e	¢ 4040	
7.3	payment	2	6		8	Ф	1,310	\$ -	\$ 1,310	
7.4	Review monthly schedules to confirm compliance with Contract dates and key milestones		4		4	\$	562	\$ -	\$ 562	
7.5	Review monthly as-builts provided by Contractor.		4		4	\$	562	\$ -	\$ 562	
7.6	Utilize EDMS for upload/download of all construction-related documentation.				0	\$	-	\$ -	\$ -	
	Task 8 - Shop Drawing/Submittal Review					\$	4,118	\$ -	\$ 4,118	
	Review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 10 working days. For the purposes		,-			۱				
8.1	of this scope, assume review effort will include the original submittal and first	8	16		24	\$	4,118	\$ -	\$ 4,118	
	resubmittal. Assume up to 60 submittals.						4 400	•	<b>.</b>	
	Task 9 - Alternatives and Substitutions  Review alternatives and substitutions proposed by Contractor. Recommend					\$	1,498	\$ -	\$ 1,498	
9.1	acceptance or rejection of the request for substitutions within 14 calendar days.	4	4		8	\$	1,498	\$ -	\$ 1,498	
	Assume up to 10 substitution reviews.							•	Φ	
	Task 10 - Request for Information (RFIs)					\$	2,995	\$ -	\$ 2,995	

## PLUMMER

Alliance Water Phase 1B Program		Project Fee Summary	
Pipeline Consultant	Basic Effort	\$	57,520
8/31/2021	Supplemental	\$	21,318
Detailed SUBCONSULTANT Cost Breakdown	Total Effort	\$	78,838

Task	Employee	Guerra	Ramos	Bauman		_	-4-11-1	T	otal		
	Project Role	PM	EIT	CAD	Total Hours	T	otal Labor Effort	Exp	ense	Total Effort	Assumptions
	Hourly Bill Rate	\$234.00	\$140.40	\$130.00			Ellort	Ef	fort		
10.1	Review Contractor questions or concerns that may arise during construction	8	8		16	\$	2,995	\$		\$ 2.995	
	and respond within 5 calendar days. Assume up to 20 RFIs	0	°		10	Ф	2,995	Þ	-	\$ 2,995	
	Task 11 - Request for Proposals (RFPs) and Change Orders (COs)					\$	5,803	\$	-	\$ 5,803	
	Coordinate with CM&I to prepare a description of proposed Modifications.										
	CM&I will issue the RFP form to Contractor through the EDMS. Assume up to	8	8		16	\$	2,995	\$	-	\$ 2,995	
	10 RFPs										
	Coordinate with CM&I for review and response to RFP and provide recommendations to the Owner's Representative for consideration. Assume up	8			8	\$	1.872	•	_	\$ 1.872	
	to 10 RFPs	0			0	Ф	1,072	Þ	-	φ 1,0 <i>1</i> 2	
	Review Change Order prepared by the CM&I team. Assume up to 10 Change					-					
	Orders, not including the Final Change Order	2			2	\$	468	\$	-	\$ 468	
	Prepare final Change Order (over and unders) recapitulation of the Project in				_						
	conjunction with the final pay request	2			2	\$	468	\$	-	\$ 468	
	Task 12 - Substantial/Final Completion Walk-Throughs					\$	2,808	\$	120	\$ 2,928	
	Consultant to conduct two (2) substantial completion walk-throughs/inspections,										
	one for Segment B2 and one for Segment B1, coordinated by the CM&I. After										
	considering any objections from Owner's Representative, if the Consultant	8			8	\$	1,872	\$	60	\$ 1,932	
	considers the work substantially complete, Consultant will submit a Substantial										
	Completion punch list and letter to the Owner's Representative.										
	Consultant to conduct one (1) final completion walk-through/inspection										
	(coordinated by the CM&I) to determine if the completed work of Contractor is	4			4	\$	936	\$	60	\$ 996	
	acceptable to both the Owner's Representative and Consultant so that Consultant may recommend, in writing, the final payment to the Contractor.										
	Task 13 - Record Drawings and Corrosion Services					\$	6.396	•		\$ 6.396	
	Consultant will prepare Contract Record Drawings using the marked up red					Ψ	0,530	Ψ	_	Ψ 0,530	
	lines drawings provided by the Contractor during construction. Record drawing										
	information will be based solely on the provided red line drawings and				0	\$	-	\$	_	\$ -	
	appropriate field documentation received from the Consultant and the CM&I				-	Ť		*		*	
	group during construction site visits. Items associated with this work include:										
13.1.1	Prepare Record Drawings of the constructed project based on change order	4		40	44	\$	6,136	6		\$ 6.136	
	revisions, RFI responses, and as built information provided by the contractor.	4		40		l '	0,130		-	, ,,,,,,	
13.1.2	Provide the Owner's Representative:				0	\$	-	\$	-	\$ -	
13.1.2.1	With one (1) set of Record Drawings in .pdf and .dwg electronic format.			1	1	\$	130	\$	-	\$ 130	
13.1.2.2	The DWG file with the reference state plane coordinate system for use by			1	1	\$	130	\$	-	\$ 130	
13.2	ARWA.  Corrosion Investigation, Data Collection and Design Support		1		0	\$		\$	-	\$ -	
13.2.1	Post Construction Corrosion Services		-		0	\$	-	\$	-	\$ -	
13.2.1	Attend a pre-commissioning site visit prior to testing		1		0	\$	-	\$	-	\$ -	
13.2.1.1	Conduct an alignment walk-thru and develop punch list of deficient Items		-		0	\$	-	\$	-	\$ -	
13.2.1.1.2	Check continuity and isolation along pipeline		<del>                                     </del>		0	\$		\$	-	\$ -	
13.2.1.2	Commissioning/Testing				0	\$	_	\$	-	\$ -	
13.2.1.2.1	Attend and witness testing performed by contractor				0	\$	-	\$	-	\$ -	
	Prepare a Commissioning Report and develop post-commissioning										
13.2.1.2.2	punchlist				0	\$	-	\$	-	\$ -	
	14. Supplemental Services					\$	21,318	\$	-	\$ 21,318	
	Survey					\$	-	\$	-	\$ -	
	General Construction Phase Services, which may include:		1			\$	15,000	\$	-	\$ 15,000	
	Attend additional meetings in the vicinity of the project (5 meetings)		1			\$		\$	-	\$ 936 \$ 5.382	
	Review additional submittals and/or RFIs		<del>                                     </del>	<b>—</b>		\$	5,382	\$	-	\$ 5,382	
14.5	Additional Post Construction Corrosion Services			<b>—</b>	0	\$	-	\$	-	\$ -	
			1	1	Grand Total	\$		\$	720	\$ 78,838	
					Grand Total	3	/8,118	3	720	s /8,838	

| Basic Services | \$ 78,118 | \$ 720 | \$ 78,838 | | Engineering Fee | \$ 78,838 |

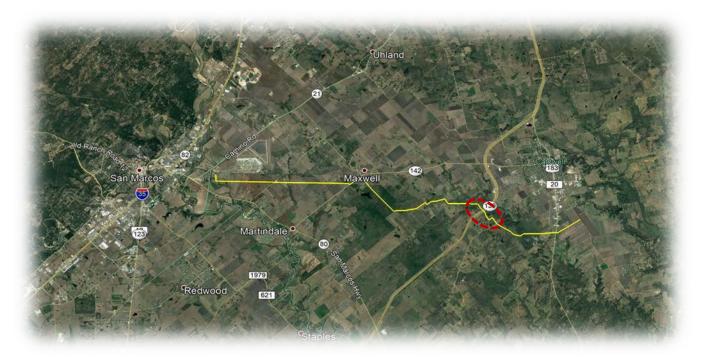
August 27, 2021 Brierley Project # 121202

Mr. Thomas Owens, P.E. KFriese + Associates 1120 S. Capital of Texas Highway, CityView 2, Suite 100 Austin, TX 78746

RE: Proposal for ARWA1BSB – Construction Phase Services

#### Dear Mr. Owens:

Brierley Associates Corporation (Brierley) is pleased to submit this proposal to KFriese + Associates (KFA) to provide construction phase services associated with the Alliance Regional Water Authority (ARWA) Pipeline Segment B. The proposed Segment B pipeline will begin near the intersection of S. Commerce St. and Seawillow Rd. located in Lockhart, Texas. The 42-inch pipeline will generally head west and northwest to Booster Pump Station #1 located near Maxwell, Texas. From the Booster Pump Station #1, the pipeline will be downsized to 30-inch and will generally head west though Reedville, Texas and terminate at the Guadalupe-Blanco River Authority Water Treatment plant located near the intersection of Airport Highway and N. Old Bastrop Highway in San Marcos, Texas. We understand that KFA would like Brierley's construction phase services only for the SH-130 crossing (red dashed circle below).



Brierley will only be involved on the SH-130 segment (ATTACHMENT 1) of the alignment which will be constructed using tunneling or trenchless techniques (for the remainder of this proposal the term "tunneling" will be used but could refer to either a tunneling or trenchless construction technique).

The ARWA has elected to utilize a phased approach for the project as outlined in the RFQ and highlighted below:

- a. Feasibility/Preliminary Engineering Phase Services
- b. Design and Permitting Services
- c. Bidding Services
- d. Construction Phase Services
- e. Warranty Phase Services

This proposal will be structured under *d. Construction Phase Services* identified within the RFQ and is specifically for this phase.

A draft scope and fee template were provided to Brierley for development of this proposal; we have mirrored our tasks with the scope of services outlined in the scope and fee template. The number in parentheses within the task headings below refers directly to the scope of services within the provided documents.

Brierley's work associated with this phase of the ARWA project will generally be incorporated into the following Tasks:

## **Design and Permitting Services**

- Task 1 Project Management
- **Task 6** Construction Site Visits and Progress Meetings
- Task 8 Shop Drawing/Submittal Review
- Task 9 Alternatives and Substitutions
- Task 10 Request for Information (RFIs)
- Task 11 Request for Proposals (RFPs) and Change Orders (COs)
- Task 12 Substantial/Final Completion Walk-Throughs
- **Task 13** Record Drawings and Corrosion Services
- Task 14 Supplemental

Task numbers were skipped intentionally to conform with the template format provided and the requested Brierley participation. Brierley understands that the Construction Phase Services addressed in this proposal will be approximately 12 months in length. It should be noted that the overall construction is anticipated to be 22 months however Brierley's scope for the tunnel should be in the range of a 12 month duration.

#### TASK 1 - PROJECT MANAGEMENT (1.0)

- 1.1 Prepare Monthly Summary Reports/Invoicing Brierley will prepare monthly Lump Sum invoices, under the assumptions that this phase of the work will be completed in 12 months. Brierley assumes two (2) hours per invoice.
- 1.2.1 Training and coordination meeting on Construction Management & Inspection Team (CM&I) Electronic Document Management System (EDMS) Brierley will designate one (1) person to attend this training and coordination meeting. Brierley assumes that this effort will be virtual and will take two (2) hours.

#### TASK 6 - CONSTRUCTION SITE VISITS AND PROGRESS MEETINGS (6.0)

- **6.1.2. SH-130 Pre-Construction Meeting** Brierley will attend a separate SH-130 pre-construction meeting coordinated by the Construction CM&I team. Brierley will have two (2) people from the design team attend this meeting, which will be the Engineer of Record (EOR) and geologist for the project. It is assumed that this meeting will be held on site and will be an hour in duration.
- **6.2.1. Monthly Site Observation** Brierley will make four (4) site visits during the construction of the SH-130 tunnel. These visits will serve to evaluate Contractor's

work is generally proceeding in accordance with the Contract Documents and will keep Client informed of the general progress of the work. We will report any observed deficiencies to CM&I team. Brierley assumes one (1) person and six (6) hours per site visit including travel time.

- **6.2.2. Site Observation Reports Submission** Brierley will prepare and provide to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit. Brierley assumes 1 hour for each report submission.
- **6.2.3. Construction Inconsistencies** Brierley will notify CM&I team of inconsistencies with observed work regarding shafts and tunnel with respect to Contract Documents. Brierley assumes one (1) person and one (1) hour per site visit.
- **6.2.4.** Specialty Site Observation Reports Brierley will make one (1) visit during annular grouting activities and one (1) visit during pipe placement in tunnel. Brierley assumes one (1) person and six (6) hours per site visit including travel time.
- 6.2.5. Specialty Site Observation Reports Submission Brierley will prepare and provide to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each specialty site visit. Brierley assumes 1 hour for each report submission.
- **6.2.6.** Specialty Construction Inconsistencies Brierley will notify CM&I team of inconsistencies with observed work regarding annular grouting and pipe placement in tunnel with respect to Contract Documents. Brierley assumes one (1) person and two (1) hour per site visit.
- **6.3.1. Monthly Progress Meetings** Brierley will attend progress meetings led by the CM&I team. These meetings are intended to discuss status of document reviews, proposed contract modifications and any issues or concerns that need to be addressed to allow construction of the project to progress. Brierley assumes these will be virtual and one (1) person will attend four (4) meetings and one (1) hour per meeting.
- 6.3.2. Review Project Decision Register and Action Item Register Brierley will review these registers prior to the monthly progress meetings and will report discrepancies in the Project Decision Register to the CM&I team immediately. Update the status on Action Items at least 10 days before meetings. KFA will lead and gather information from Brierley. Brierley assumes one (1) hour per site visit totaling four (4) hours.
- 6.3.3. Review Monthly Construction Activity Reports Brierley will review these monthly construction activity reports prepared by the CM&I team and will provide feedback on report content as appropriate. Brierley assumes one (1) hour per site visit totaling four (4) hours.

#### TASK 8 - SHOP DRAWINGS/SUBMITTAL REVIEW (8.0)

- **8.1.** Review Shop Drawings/Submittals Brierley will review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 10 working days. For the purposes of this scope, Brierley assumes review effort will include the original submittal and first resubmittal. Brierley anticipates the following submittals pertaining to the shaft and tunnel components of the project:
  - Instrumentation and Monitoring
  - Groundwater Control
  - Shaft Excavation
  - Tunnel Excavation
  - Contact Grouting
  - Annular Grouting
  - Pipe Placement in Tunnel

Brierley assumes up to 14 submittals including original submittal and first resubmittal and up to four (4) hours per submittal.

#### TASK 9 – ALTERNATIVES AND SUBSTITUTIONS (9.0)

9.1. Review Alternatives and Substitutions proposed by Contractor – Brierley will review alternatives and substitutions proposed by the Contractor. Brierley will recommend acceptance or rejection of the request for substitutions within 14 calendar days. Brierley assumes one (1) person up to eight (8) hours for this task and it will include up to 10 substitution reviews.

### TASK 10 - REQUEST FOR INFORMATION (RFIS) (10.0)

10.1. RFIs - Brierley will review Contractor questions or concerns that may arise during construction and respond within 5 calendar days. Brierley assumes one (1) person and up to six (6) RFIs at four (4) hours each.

### TASK 11 – REQUEST FOR PROPOSALS (RFPS) AND CHANGE ORDERS (COS) (11.0)

- 11.1. Coordinate with CM&I to prepare a description of proposed Modifications Brierley will Coordinate with CM&I to prepare a description of proposed Modifications. CM&I will issue the RFP form to Contractor through the EDMS. Brierley assumes one (1) person and one (1) RFP for a total of 8 hours.
- 11.2. Coordinate with CM&I for review and response to RFP Brierley will coordinate with CM&I for review and response to RFP and provide recommendations to the Owner's Representative for consideration. Brierley assumes one (1) person and one (1) RFP for a total of 4 hours.

### TASK 12 - SUBSTANTIAL/FINAL COMPLETION WALK-THROUGHS (12.0)

12.1. Substantial Completion Walk-throughs/Inspections - Brierley will perform a substantial completion/walk-though for the SH-130 tunnel. Brierley assumes that KFA will be present during this walk-though and KFA will provide the substantial completion punch list based on Brierley's input and observations. Brierley assumes one (1) person for this task for a total of four (4) hours.

## TASK 13 – RECORD DRAWINGS AND CORROSION SERVICES (13.0)

13.1.1. Prepare Record Drawings – Brierley will simply provide input to KFA, and KFA will incorporate into record drawings. Brierley assumes one (1) person for this task for a total of four (4) hours.

## TASK 14 - SUPPLEMENTAL (14.0)

- 14.2. General Construction Phase Services In the event that Contractor claims arise, the program has requested Brierley to include a lumpsum fee of \$15,000 that may include an additional site visit and assisting Owner in reviewing and evaluating claims.
- 14.3. Attend Additional Meetings In the event that additional meetings are needed, Brierley assumes one (1) meeting in the vicinity of the project and assumes one (1) person for three (3) hours including travel time.
- 14.4. Review Additional Submittals and/or RFIs In the event that additional submittal reviews are needed, Brierley assumes up to five (5) additional submittals. Brierley assumes one (1) person and up to four (4) hours per submittal. In the event that additional RFI reviews are needed, Brierley assumes up to one (1) additional RFI review. Brierley assumes one (1) person and up to four (4) hours.

#### **COST**

Brierley proposes to perform the tasks described herein and summarized on the attached Fee Estimate worksheet to be paid as a Lump Sum.

Note that the hourly rates used are reflective of Brierley's 2021 Standard Fee Schedule. If, for some reason, the design and permitting services is not completed by December 31, 2022, we reserve the right to escalate our fees by 5% per year from the 2021 hourly rates (Contract amount will not be exceeded). Brierley expects to be allowed to utilize skilled engineering staff throughout Brierley, as needed to perform and review its work. Our fees for this scope will be invoiced monthly, with estimated percent complete for lump sum items. If additional effort beyond the scope detailed is requested, a negotiated fee and contract amendment will be agreed to prior to commencing work. An e-mail or other written directive will be sent to Brierley prior to proceeding with additional scope.

Please call me at 512-219-1733 if you need anything else to clarify this proposal or if we can be of any other assistance to KFriese + Associates.

Sincerely,

Kevin Mandeville, P.G.

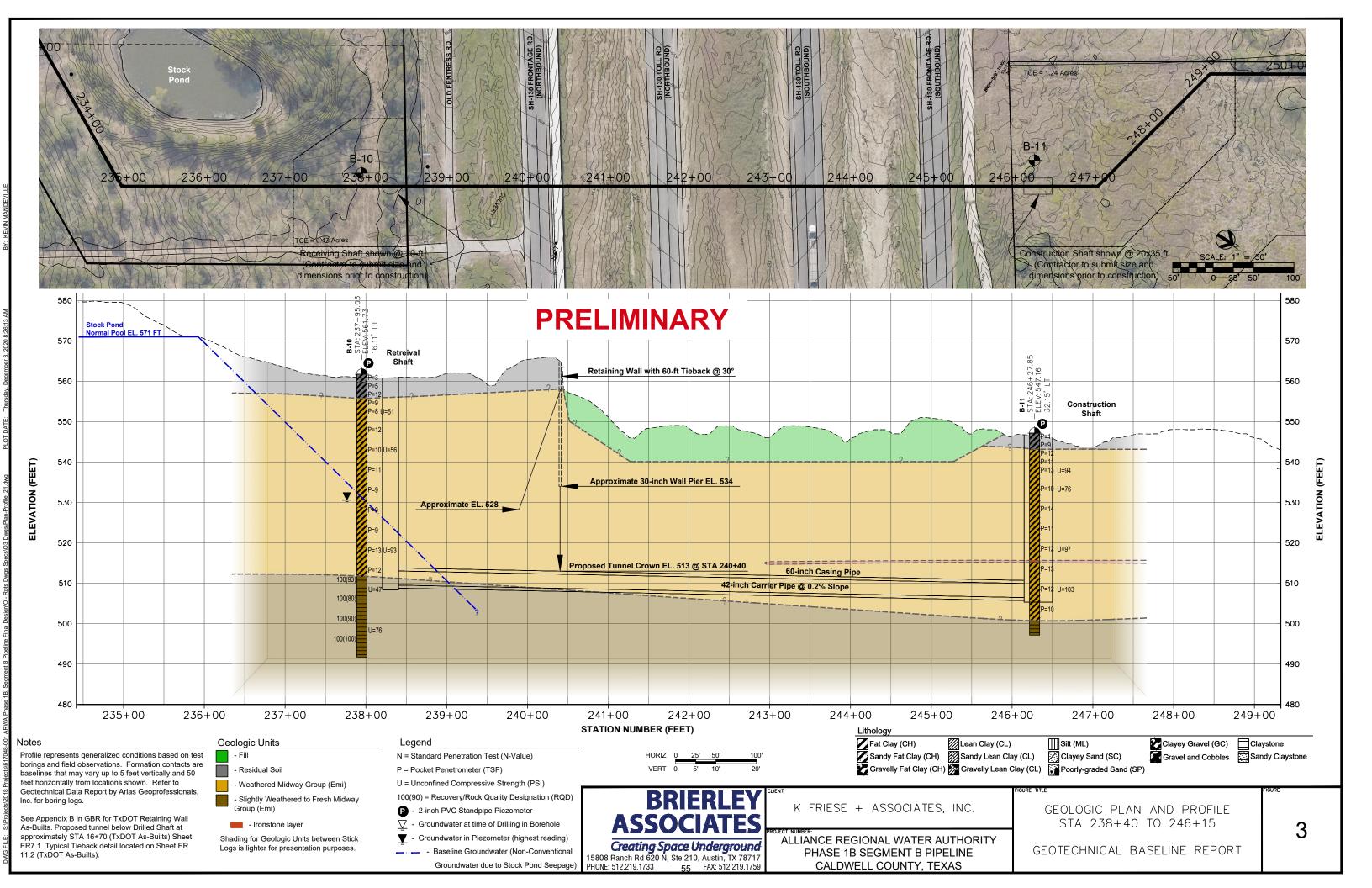
Associate

**Brierley Associates** 

Accepted by:

Thomas Owens, P.E. Executive Vice President

Attachments: ATTACHMENT 1 – Geologic Plan and Profile, ATTACHMENT 2 – Fee Estimate, ATTACHMENT 3 - 2021 Standard Fee Schedule, ATTACHMENT 4 – BA Terms and Conditions, ATTACHMENT 5 – Construction Phase Scope Template



Alliance Water Phase 1B Program		Project Fee Summary	
Pipeline Consultant	Basic Effort	\$	46,374
8/27/2021	Supplemental	\$	21,811
Detailed BRIERLEY Cost Breakdown	Total Effort	\$	68,185

Task	Employee								Total			
	Project Role	Principal	Senior	Project	Professional II	Total Hours	Te	otal Labor	Expense	Total Sub	Total Effort	Assumptions
	Hourly Bill Rate		Associate	Manager \$220.00		1000.1100.10		Effort	Effort	Effort	1000.	. 1000р.1100
	Hourly Bill Rate	φ200.00	φ250.00	φ220.00	\$105.00							
	Task 1 - Project Management						\$	5,720	\$ -	¢ -	\$ 5,720	
1.1	Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase			24		24	\$	5,280	\$ -	\$ -	\$ 5,280	
1.2.2	1B Program Management Plan  Training and coordination meeting on Construction Management & Inspection Team (CM&I) Electronic Document Management System (EDMS)			2		2	\$	440	\$ -	\$ -	\$ 440	
	· · · · · · · · · · · · · · · · · · ·						0	44.400	<b>A</b> 40.4	Φ.	0 44.074	
0.4	Task 6 - Construction Site Visits and Progress Meetings					0	\$	14,190		\$ -	\$ 14,674	
6.1	Pre-Construction Meeting  Attend separate SH-130 pre-construction meeting coordinated by the					0	\$	-	\$ -	\$ -	\$ -	
6.1.2	Construction CM&I team.		3	3		6	\$	1,410		\$ -	\$ 1,531	
6.2	Monthly Site Observation					0	\$	-	\$ -	\$ -	\$ -	
6.2.1	6.2.1. Site observations will be limited to spot checking, selective measurement, and similar methods of general observation.		12		12	24	\$	4,980	\$ 242	\$ -	\$ 5,222	
6.2.2	Site observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit.				4	4	\$	660	\$ -	\$ -	\$ 660	
6.2.3	Notify CM&I team of inconsistencies with observed worked with respect to Contract Documents.			4		4	\$	880	\$ -	\$ -	\$ 880	
6.2.4	Specialty Observations will be limited to spot checking, selective measure, and similar methods of general observations for observation of equipment requiring additional observations beyond the monthly observations.		6		6	12	\$	2,490	\$ 121	\$ -	\$ 2,611	
6.2.5	Specialty Observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit.				2	2	\$	330	\$ -	\$ -	\$ 330	
6.2.6	Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.			2		2	\$	440	\$ -	\$ -	\$ 440	
6.3	Monthly Construction Progress Meetings					0	\$	-	\$ -	\$ -	\$ -	
6.3.1	Attend Progress Meetings led by the CM&I team. Discuss status of document reviews, proposed contract modifications and any issues or concerns that need to be addressed to allow construction of the project to progress.		4			4	\$	1,000	\$ -	\$ -	\$ 1,000	
6.3.2	Review Project Decision Register and Action Item Register prior to each meeting. Report discrepancies in the Project Decision Register to the CM&I team immediately. Update the status on Action Items at least 10 days before meetings.		4			4	\$	1,000	\$ -	\$ -	\$ 1,000	
6.3.3	Review monthly Construction Activity Reports prepared by the CM&I team.  Provide feedback on report content as appropriate.		4			4	\$	1,000	\$ -	\$ -	\$ 1,000	
	Task 8 - Shop Drawing/Submittal Review						\$	13,100	\$ -	\$ -	\$ 13,100	
8.1	Review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 10 working days. For the purposes of this scope, assume review effort will include the original submittal and first resubmittal. Assume up to 60 submittals.		26	30		56	\$	13,100	\$ -	\$ -	\$ 13,100	
HANN	Task 9 - Alternatives and Substitutions						\$	2,000	\$ -	\$ -	\$ 2,000	

Alliance Water Phase 1B Program		Project Fee Summary	
Pipeline Consultant	Basic Effort	\$	46,374
8/27/2021	Supplemental	\$	21,811
Detailed BRIERLEY Cost Breakdown	Total Effort	\$	68,185

Task	Employee								Total			
	Project Role	Principal	Senior Associate	Project Manager	Professional II	Total Hours	T	otal Labor Effort	Expense	Total Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$260.00		\$220.00	\$165.00			Ellolt	Effort	Ellort		
	Review alternatives and substitutions proposed by Contractor. Recommend											
9.1	acceptance or rejection of the request for substitutions within 14 calendar days.		8			8	\$	2,000	\$ -	\$ -	\$ 2,000	
	Assume up to 10 substitution reviews.											
	Task 10 - Request for Information (RFIs)						\$	6,000	\$ -	\$ -	\$ 6,000	
10.1	Review Contractor questions or concerns that may arise during construction		24			24	Ф	6,000	\$ -	\$ -	\$ 6,000	
10.1	and respond within 5 calendar days. Assume up to 20 RFIs		24			24	Ψ	,		φ -	,	
	Task 11 - Request for Proposals (RFPs) and Change Orders (COs)						\$	3,000	\$ -	\$ -	\$ 3,000	
	Coordinate with CM&I to prepare a description of proposed Modifications. CM&I											
11.1	will issue the RFP form to Contractor through the EDMS. Assume up to 10		8			8	\$	2,000	\$ -	\$ -	\$ 2,000	
	RFPs											
44.0	Coordinate with CM&I for review and response to RFP and provide							4 000	_		4	
11.2	recommendations to the Owner's Representative for consideration. Assume up		4			4	\$	1,000	\$ -	\$ -	\$ 1,000	
	to 10 RFPs						Φ.	4.000	Φ.	Φ.	<b></b>	
	Task 12 - Substantial/Final Completion Walk-Throughs						\$	1,000	\$ -	\$ -	\$ 1,000	
	Consultant to conduct two (2) substantial completion walk-throughs/inspections,											
	one for Segment B2 and one for Segment B1, coordinated by the CM&I. After											
12.1	considering any objections from Owner's Representative, if the Consultant		4			4	\$	1,000	\$ -	\$ -	\$ 1,000	
	considers the work substantially complete, Consultant will submit a Substantial											
	Completion punch list and letter to the Owner's Representative.											
	Task 13 - Record Drawings and Corrosion Services						\$	880	\$ -	\$ -	\$ 880	
	Prepare Record Drawings of the constructed project based on change order											
13.1.1	revisions, RFI responses, and as built information provided by the contractor.			4		4	\$	880	\$ -	\$ -	\$ 880	
	revisions, Kri responses, and as built information provided by the contractor.											
	14. Supplemental Services						\$	6,750	\$ 61	\$ -	\$ 21,811	
14.1	Survey					0	\$	-		\$ -	\$ -	
14.2	General Construction Phase Services					0	\$	-	\$ -	\$ -	\$ 15,000	
14.3	Attend additional meetings in the vicinity of the project (1 meeting)		3			3	\$	750	\$ 61	\$ -	\$ 811	
14.4	Review additional submittals and/or RFIs		24			24	\$	6,000	\$ -	\$ -	\$ 6,000	
14.5	Attend Post Construction Corrosion Services					0	\$	-	\$ -	\$ -	\$ -	
						Grand Total	\$	52,640	\$ 545	\$ -	\$ 68,185	

Alliance Water Phase 1B Program		Project Fee Summary	
Pipeline Consultant	Basic Effort	\$	20,330
7/29/2021	Supplemental	\$	6,880
Detailed CHAPMAN Cost Breakdown	Total Effort	\$	27,210

Task	Employee								
	Project Role	Principal Corr		oject dinator	Total Hours	T	otal Labor	Total Effort	Assumptions
	Hourly Bill Rate	Engineer Eng		35.00			Effort		·
	Trouriy Bir Ruto	φ100.00 φ10	70.00   ψ TC	0.00					
	Task 1 - Project Management					\$	810	\$ 810	
1.1	Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase 1B Program Management Plan		4	2	6	\$	810		
1.2	Meetings				0	\$	-	\$ -	
1.2.1	Quality Control Audit (1 workshop)				0	\$	-	\$ -	
1.2.2	Training and coordination meeting on Construction Management & Inspection Team (CM&I) Electronic Document Management System (EDMS)				0	\$	-	\$ -	
	Task 8 - Shop Drawing/Submittal Review					\$	1,080	\$ 1,080	
8.1	Review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 10 working days. For the purposes of this scope, assume review effort will include the original submittal and first resubmittal. Assume up to 60 submittals.		8		8	\$	1,080	\$ 1,080	
	Task 9 - Alternatives and Substitutions					\$	1,180	\$ 1,180	
9.1	Review alternatives and substitutions proposed by Contractor. Recommend acceptance or rejection of the request for substitutions within 14 calendar days. Assume up to 10 substitution reviews.	2	6		8	\$	1,180	\$ 1,180	
	Task 10 - Request for Information (RFIs)					\$	590	\$ 590	
10.1	Review Contractor questions or concerns that may arise during construction and respond within 5 calendar days. Assume up to 20 RFIs	1	3		4	\$	590		
	Task 13 - Record Drawings and Corrosion Services					\$	7,320	\$ 16,670	
13.1	Consultant will prepare Contract Record Drawings using the marked up red lines drawings provided by the Contractor during construction. Record drawing information will be based solely on the provided red line drawings and appropriate field documentation received from the Consultant and the CM&I group during construction site visits. Items associated with this work include:				0	\$	-	\$ -	
13.1.1	Prepare Record Drawings of the constructed project based on change order revisions, RFI responses, and as built information provided by the contractor.	2	24		24	\$	3,240	\$ 3,240	
13.1.2	Provide the Owner's Representative:				0	\$	-	\$ -	
13.1.2.1	With one (1) set of Record Drawings in .pdf and .dwg electronic format.		1		1	\$	135	\$ 135	
13.1.2.2	The DWG file with the reference state plane coordinate system for use by ARWA.		1		1	\$	135	\$ 135	
13.2	Corrosion Investigation, Data Collection and Design Support				0	\$		\$ -	
13.2.1	Post Construction Corrosion Services				0	\$	-	\$ -	

Alliance Water Phase 1B Program			
Pipeline Consultant	Basic Effort	\$	20,330
7/29/2021	Supplemental	\$	6,880
Detailed CHAPMAN Cost Breakdown	Total Effort	\$	27,210

Task	Employee									
	Project Role	Principal Engineer	Corrosion Engineer	Project Coordinator	Total Hours	1	otal Labor Effort	To	tal Effort	Assumptions
	Hourly Bill Rate			\$135.00			Elloit			
13.2.1.1	Attend a pre-commissioning site visit prior to testing		8		8	\$	1,080	\$	1,080	
13.2.1.1.1	Conduct an alignment walk-thru and develop punch list of deficient Items		32		32	\$	4,320	\$	4,320	
13.2.1.1.2	Check continuity and isolation along pipeline		24		24	\$	3,240	\$	3,240	
13.2.1.2	Commissioning/Testing				0	\$	-	\$	-	
13.2.1.2.1	Attend and witness testing performed by contractor		16		16	\$	2,160	\$	2,160	
13.2.1.2.2	Prepare a Commissioning Report and develop post-commissioning punchlist	4	12		16	\$	2,360	\$	2,360	
	14. Supplemental Services					\$	6,880	\$	6,880	
14.1	Survey				0	\$	-	\$	-	
14.1.1	Verify/Reset horizontal and vertical control points for construction purposes				0	\$	-	\$	-	
14.2	General Construction Phase Services, which may include:				0	\$	-	\$	-	
14.2.1.	Additional site visits.		8		8	\$	1,080	\$	1,080	
14.2.2	Providing services to review or evaluate Contractor claims that are not due to causes within the control of Consultant.	4	12		16	\$	2,360	\$	2,360	
14.2.3	Assisting Owner in preparing for, or appearing at litigation, mediation, arbitration, dispute review boards, or other legal and/or administrative proceedings in the defense or prosecution of claims disputes with Contractor.				0	\$	-	\$	-	
14.2.4	Assisting Owner in the defense or prosecution of litigation in connection with or in addition to those services contemplated by this Agreement.				0	\$	-	\$	-	
14.2.5	Any services required as a result of default of the Contractor or the failure, for any reason, of the Contractor to complete the work within the Contract Time.				0	\$	-	\$	-	
14.3	Attend additional meetings in the vicinity of the project (5 meetings)				0	\$	-	\$	-	
14.4	Review additional submittals and/or RFIs				0	\$	-	\$	-	
14.4.1	Review up to 40 additional submittals				0	\$		\$	-	
14.4.2	Review up to 5 additional RFIs				0	\$		\$		
14.5	Additional Post Construction Corrosion Services	4	20		24	\$	3,440	\$	3,440	
					0	\$	-	\$	-	
					Grand Total	\$	17,860	\$	27,210	

7/29/2021



# SCOPE OF SERVICES AND FEE ARWA1BSB-Construction Phase Services

Survey Task per Alliance Regional Water Authority-Phase 1B Construction Phase Pipe Scope Segment B Pipeline Item number 14.1 Survey:

14.1.1 Verify/Reset horizontal and vertical control points for the construction purposes

SAM will recover/verify and reset any of the 37 Primary Control Points that are missing.

Alliance Water Phase 1B Program		Project Fee Summary					
Pipeline Consultant	Basic Effort	\$ 1,610					
7/29/2021	Supplemental	\$ 41,368					
Detailed SAM Cost Breakdown	Total Effort	\$ 42,978					

Task	Employee														
	Project Role	Principal/De partment Manager	Project Manager	Project Manager	Technician	Technicia n	n/Clerical Support	Two Person Survey Field Crew	Coordinator	Total Hours	Total Labor Ex			Total Effort	Assumptions
	Hourly Bill Rate	\$250.00	\$195.00	\$160.00	\$105.00	\$95.00	\$85.00	\$160.00	\$115.00						
	Task 1 - Project Management										\$ 1,610	\$ -	\$	1,610	
1.1	Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase 1B Program Management Plan	1	2	5			2			10	\$ 1,610	\$ -	\$	1,610	
	14. Supplemental Services										\$ 35,735	\$ 5,63	33 \$	41,368	
14.1	Survey	1	1	2	2	2				8	\$ 1,165	\$ -	\$	1,165	
14.1.1	Verify/Reset horizontal and vertical control points for construction purposes		4	18	14	50		150	6	242	\$ 34,570	\$ 5,63	33 \$	40,203	Verify/Reset 37 Primary Control Points
										0	\$ -	\$ -	\$	-	
		*	•	•				•		Grand Total	\$ 37,345	\$ 5,6	33 <b>\$</b>	42,978	

# REGULAR MEETING Alliance Regional Water Authority Technical Committee

## **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.5** Discussion and possible recommendation to the Board to approve a Work Order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program. ~ *Graham Moore, P.E., Executive Director* 

## Background/Information

The Authority issued RFQ 2019-003 in December 2019 for the Construction Management & Inspection Services for the Authority's Phase 1B Program. In May 2021 the Authority issued a work order to Pape-Dawson for Construction Management and Inspection on the Phase 1B Program through the end of 2021. These same services are needed in 2022 as construction continues on the Water Treatment Plant and Booster Pump Station and as construction starts on the Segment A and B pipelines.

The work order for 2021 was a total amount of \$2,148,056. Based on the current spending rates, the total amount anticipated to be expended of this work order is \$1,262,304 or 59% of the amount authorized.

The Executive Director negotiated the attached scope and fee for the construction management and inspection services. The effort is based on an hourly rates with staff brought on board to the program as the various projects move into construction. The work order has been structured to last the entirety of 2022.

In addition to the typical observation and inspection efforts (observing construction, periodic contractor meetings, submittal/RFI coordination, review of pay apps, schedules and change order requests, etc.), the scope of services includes fee to maintain the electronic document tracking system and maintaining construction trailers at the treatment plant and booster pump station.

Staff anticipates multiple work orders over the next several years with Pape-Dawson for the construction management and inspection work.

Below are some of the key facts regarding the proposal:

Firm: Pape-Dawson Engineers, Inc.

**Fee:** \$6,009,908

Work Order Type: Hourly Rate, Not-to-Exceed

Anticipated Duration: 12 months Project Manager: Chris Noe, P.E.

Key Subconsultants: Foster CM Group, TEC Consulting & JH Engineering

# REGULAR MEETING Alliance Regional Water Authority Technical Committee

## **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

Staff is requesting Board approval of the Work Order#6 with a fee not-to-exceed \$6,009,908.

## Attachment(s)

ARWA Phase 1B CM&I Proposal for 2022 dated December 7, 2021

## **Technical Committee Decision Needed:**

 Possible recommendation to the Board to approve a work order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Phase 1B Program for 2022.



December 7, 2021

Mr. Graham Moore, P.E. Alliance Regional Water Authority 630 E. Hopkins San Marcos, TX 78666

Re: ARWA Phase 1B CM&I – Work Order #6

Dear Mr. Moore:

We are pleased to present this proposal for providing Construction Management and Inspection (CMI) services in connection with the above referenced project. Our proposed scope of services and associated fees are as follows:

#### I. GENERAL TASKS

## A. Program Construction Manager Services

- Perform construction observation and construction administration tasks as ARWA's designated Owner's Representative during construction.
- Serve as the primary point of contact for the Owner's Project Team (OPT) in the
  administration of the construction program. The OPT consists of ARWA, KimleyHorn, Pape-Dawson, the Design Consultants and the Material Testing Service.
  Pape-Dawson will establish the construction oversight processes and
  procedures and conduct progress meetings for the program.
- Suggest required staffing levels and make assignments as necessary to see that
  construction activities are adequately covered and that the needs of the
  program are being met. Provide a Construction Management Team (CMT) of
  qualified personnel to execute the responsibilities of the Owner's
  Representative. Major team roles to be staffed include:
  - Owner's Representative during Construction (referred to as the CMI in Specification Section 00 73 00 of the Contract Documents)
    - The single-point of contact for the OPT for Construction Phase activities and is responsible for the execution of Owner's Representative Services across the Program.
  - Construction Managers
    - Provide on-site, full-time Construction Manager for facilities projects for coordination and oversight of Project Contractor and Design Consultant activities on behalf of Program Manager and Owner.
    - Provide on-site, full-time Construction Manager for pipeline projects for coordination and oversight of project Contractor and Design Consultant activities on behalf of Program Manager and Owner.

#### Owner's Field Representatives

- Provide on-site, full-time Owner's Field Representatives for facilities projects for observation of construction activities on behalf of ARWA.
- Provide on-site, full-time Owner's Field Representatives for pipeline projects for observation of construction activities on behalf of ARWA.
- Provide specialized Owner's Field Representatives for as needed to support facility and pipeline Owner's Field Representatives. Examples include activities such as electrical, welding, and tunneling.
- Owner's Representative Scheduler
  - Provide Owner's Representative Scheduler for facility and pipeline projects.
- Commissioning Manager
  - Provide Commissioning Manager to oversee Program's commissioning and startup planning and execution activities.
- Implement, and execute a Construction Management Plan to assist in the administration of the construction contracts in accordance with the Program's requirements and Construction Documents. The Construction Management Plan (CMP) establishes standard operating procedures, protocols and forms for construction management and administration activities, including submittals, substitution requests, construction schedule, requests for information, requests for change in the Contract Amount or the Contract Time, applications for payment, as-builts, records drawings, materials testing, record-keeping, and operating and maintenance manuals.
  - Review schedules, project costs and project progress payment requests from the Contractor and approve or reject.
  - Provide monthly status reports which include at a minimum:
    - Pape-Dawson progress pay requests
    - Risk Register updates
    - Updates to Program Schedule milestones which are mutually agreed upon by ARWA, Pape-Dawson and Kimley-Horn
    - Overall Work completed to Date
    - Tasks completed in the last 30 days
    - Tasks to be completed in the next 30 days
    - Overall Work to be completed
    - Reasons & Solutions for Delays
- Develop, implement, and maintain an Electronic Document Management System (EDMS) using Microsoft SharePoint. Pape-Dawson will host the SharePoint site and provide access to individuals involved in Construction Phase activities. Pape-Dawson intends to maintain documents in electronic format to the extent possible to be sustainable and also for ease of search and retrieval. Documentation includes drawings, logs, RFIs, submittals, correspondence, letters and reports. Manage access to EDMS.
- Provide temporary field offices at the Water Treatment Plant and Booster Pump Station for Pape-Dawson use. The Contractor will provide temporary services and connections to the CMT trailer and provide a level gravel pad to support the



Mr. Graham Moore, P.E. ARWA Phase 1B CM&I – Work Order #6 December 7, 2021 Page 3 of 8

trailer. Pape-Dawson is responsible for monthly service charges which will be invoiced to ARWA.

 Provide a Field Observation Report platform that promotes consistency in data collections, is searchable using metadata, and provides near-real time information to the OPT. Pape-Dawson intends to use Headlight to provide this service.

## **B.** Field Construction Manager Services

- Manage and administer the day-to-day Owner Representative requirements of the Projects.
- Serve as the liaison between the construction contractors and the OPT. Provide leadership to the assigned Field Staff in the performance of their duties and manage the administrative efforts required to support construction of the Projects.
- Execute the Construction Management Plan. This includes such activities as determination of pay application quantities, review of schedule updates, coordination of change orders, coordinate material testing, lead daily site observations, and coordinate quality assurance activities with the OPT.
- Maintain and monitor project risk using a risk register. Project risk registers will initially be the Design Consultant's list of open risk items remaining at the end of the Design Phase. The risk register will be reviewed by the OPT and Contractor during progress meetings. As risks to the project develop or change, the register will be updated and reported in Pape-Dawson's monthly status report to ARWA.

### C. Owner's Field Representative Services

- Perform observation and documentation of construction activities for conformance to the Contract Documents as directed by the Construction Manager.
- Provide adequate, qualified staff to conduct daily, on-site, full-time observation services.
- Provide daily quality assurance of the Contractor's quality control process.
- Coordinate Material Testing Service verification testing with Contractors.

### D. Commissioning

Serve as ARWA's designated representative as the Program-wide commissioning manager responsible for integrating the commissioning and startup activities of the Program's multiple Projects. Review the Contractor's Facility Startup and Performance Plan, functional and performance test results, completed unit process startup forms, and completed facility performance demonstration/certification forms. Check the Contractor's scheduled tasks and timelines against the Contractor's Facility Startup and Performance plan for adequacy to meet Program milestones. Coordinate specialists or technical advisers required from the Design Consultant. Work directly with ARWA to facilitate seamless handover to operations



Mr. Graham Moore, P.E. ARWA Phase 1B CM&I – Work Order #6 December 7, 2021 Page 4 of 8

staff prior to Commercial Operations. Attend facility startup meetings conducted by the Contractor.

#### II. SIGNIFICANT SPECIFIC TASKS

#### A. Bidding Support Services

- 1. Participate as a member of the Competitive Seal Proposal evaluation team.
- 2. Compile contract documents from the Contractor and provide to the Program Team.

#### **B.** Schedule and Conduct Construction Meetings

## 1. Preconstruction Conferences

Coordinate and conduct preconstruction conferences with OPT and Contractors. Prepare the meeting agenda packet and meeting minutes for Project meetings and distribute copies as directed by ARWA.

## 2. Construction Meetings

Coordinate and conduct construction meetings with OPT and Contractors for purposes of conforming with Program schedule goals.

## C. Monitor Contractor Activities During Construction Phase to Check Conformance with Program Schedule, Budget and Quality Goals

## 1. Site Visits

Prepare daily field reports and representative photos that generally document the Contractor's personnel, hours on job site, equipment in use and idle, general safety observations, quality control activities, weather conditions, data relative to extras or deductions in bid items, Work in progress and accomplished, whether Work is in general conformance with the Contract Documents, general observations and documentation of testing procedures and results. Identify deviations in the Work from the Contract Documents, note the deviations in daily reports, notify the Contractor and, as needed, the OPT of the deviations, and monitor the deviations until they are resolved.

Review documentation and Contractor resources to check that Contractor, Subcontractor, and other Project team members have the required qualifications, training, licenses, and certifications as specified.

### 2. Design Consultant Observation

Monitor Design Consultant observations of the progress and quality of the executed work and coordinate responses to Contractors when work is not proceeding according to contract requirements.



Mr. Graham Moore, P.E. ARWA Phase 1B CM&I – Work Order #6 December 7, 2021 Page 5 of 8

### 3. Contractor Pay Requests

Before the Contractor submits applications for payment to the Design Consultant under Section 12.1 of the TWDB Supplemental Contract Conditions, review each application in draft form, check whether the amount requested reflects the progress of the Work and is in accordance with the Contract Documents, and approve or reject the application.

## 4. Contractor Schedule

Review, analyze, and check logic, sequencing, and required milestones in the Contractor's initial schedule. Check Contractor's WBS against SOV to facilitate future payment review process. Translate Contractor's detailed WBS into Program Master Schedule WBS.

Review schedule for variances Contractor's schedule as part of the monthly pay application review process and notify OPT of potential concerns in delivering the Project on time.

#### 5. Contractor Redlines

Maintain records of construction activity, approved changes, and contract deviations to support the preparation of accurate Record Drawings at the conclusion of construction.

#### 6. Quality Assurance

Monitor the Contractor for implementation, documentation, and verification of the Contractor's Quality Control Plan. Receive, log, and distribute QA and testing results from the Material Testing Service. Review submittals and Certified Test Reports. Conduct preparatory meetings of the three-phase control system with CMT, Design Consultant, and Contractor.

#### 7. Change Order Documentation

Monitor and coordinate with the Design Consultant the preparation of supporting documentation and/or design, and review of final draft of Change Order documents. Coordinate with the Design Consultant in the preparation, maintenance, and distribution of the Project Change Order log.

#### 8. Substantial Completion Coordination

Coordinate with OPT and Contractor to conduct an on-site review. Maintain records of list of Work corrections (punch-list items) that need to be addressed for Final Completion and provide to Contractor.

## 9. Final Completion Coordination

Coordinate with the OPT and Contractor to conduct an on-site review upon notification by Contractor that Work is ready for final inspection and acceptance, and receipt of Contractor's final Application for Payment. Support



Mr. Graham Moore, P.E. ARWA Phase 1B CM&I – Work Order #6 December 7, 2021 Page 6 of 8

the Design Consultant with preparation of the final Application for Payment upon work being found acceptable.

## E. Monitor, Review and Coordinate RFIs, Change Orders, Field Revisions, Punch Lists, and other Actions during Construction.

#### 1. RFI Coordination

Coordinate monitor and log Design Consultant responses to requests for information (RFI) submitted by the Contractor. Prepare, maintain and distribute a Project RFI log. Assist in the resolution of RFI's as needed.

## 2. Technical Documentation Coordination

Coordinate the provision of technical documentation to support the resolution of claims, disputes and other matters relating to the execution or progress of the construction work or interpretation of the Contract Documents.

## 3. Change Management

Track the progress of changes (potential and approved). Notify ARWA and Kimley-Horn of potential change requests based on RFI submitted by the Contractor, or discussions of the work. Review Contractor change orders and delay claims and make recommendations to ARWA. Assist the Design Consultant in the preparation of change requests for review, approval or rejection by ARWA providing photographs, field records, testing results and other documentation as needed to help evaluate the change request.

#### 4. Substantial and Final Completion

Coordinate and support the Design Consultants professional inspections to determine the dates of substantial completion and final completion for the Project, to evaluate the work for acceptable conformance with the construction contract documents and to verify that any minor deviations from the construction contract documents have been corrected. Coordinate with the Design Consultants to receive and review written warranties and related documents required by the construction contract documents and assembled by the Contractor.

#### 5. Submittals

- Monitor and record the progress of Contractor submittals such as shop drawings, product data, samples, schedules, laboratory, quarry, shop and mill tests of material and equipment. Coordinate and monitor Design Consultant progress in review and processing of Contractor submittals.
- Identify if submittals are reviewed and returned to the Contractor by the Design Consultants with recommendation for action to be taken
- Prepare, maintain and provide updated electronic copies of the Master Submittal Log. The Master Submittal Log will indicate the accurate status of project submittal requirements. Maintain status of submittals such as Reviewed, Reviewed with Comments, Revise and Resubmit or Other



Mr. Graham Moore, P.E. ARWA Phase 1B CM&I – Work Order #6 December 7, 2021 Page 7 of 8

Action. The Contractor will prepare a Submittal Schedule, based on the Master Submittal Log. The Master Submittal Log will be distributed as requested by ARWA.

#### 6. As-built Surveys

Perform as-built survey activities using GPS equipment. GPS performance requirements to be provided by ARWA.

## F. Monitor and Coordinate Program and Project Close Out

#### 1. Record Drawings

Coordinate and monitor the Design Consultant's review of contractor as-built drawings and check that compiled field changes and orders, and permit corrections are complete and correctly reflected on drawings according to best available information and knowledge. Production of the record drawings will be done by the Design Consultant.

## 2. Close Out Procedure

Work with the Design Consultants and ARWA to check that close out paperwork required by the TWDB and Contract Documents is completed and submitted to receive release of retainage and Certificate of Approval for each Project.

Estimate of costs: See attached Exhibit A.

#### THIS PROPOSAL ASSUMES AND/OR EXCLUDES THE FOLLOWING:

- > Because the construction phase Owner's Representative support services are dependent on the number and duration of individual construction projects, this scope and fee is only an estimate to establish an initial funding of the Owner's Representative's work. The fee will be reevaluated as work progresses and additional fees may be required.
- Field observation staffing is estimated at 48 hours per week per pipeline segment based on the Program construction time frames shown in Exhibit C.
- Work will be invoiced on an hourly basis using the attached rate schedule (Exhibit D). Rates are valid through 2022.
- Microsoft SharePoint services are estimated based upon standard cloud business deployment. Program needs that escalate those standard deployments, such as cyber-security requirements, will require additional fees.
- > Direct expenses for reproduction, travel, express mail, and special deliveries will be invoiced at cost per the Master Agreement.
- Additional services requested by ARWA which may arise, and are not outlined above, to be compensated for on an hourly basis or negotiated to a lump sum fee.

### **COMPENSATION**

## **Basis of Compensation**

Pape-Dawson's compensation for the above services will be a charge for personnel services plus an hourly charge for specialized equipment and computers. A budget of **\$6,009,908** is the estimated cost of Pape-



Mr. Graham Moore, P.E. ARWA Phase 1B CM&I – Work Order #6 December 7, 2021 Page 8 of 8

Dawson's current understanding of the services identified above. This also includes estimated expenses for field office trailers, temporary field office services, a cloud-based field reporting system, and direct expenses as defined below. This budget figure does not include applicable sales tax on services. If this budget figure is exceeded, Pape-Dawson may request modification of this Agreement.

Direct Expenses include reproduction, travel, express mail, special deliveries and subcontractor expenses related to these services. Direct Expenses will be charged at cost.

#### Agreement

Upon the signing of this Proposal by Client, this Proposal to be governed by the existing Master Agreement for Professional Engineering Services by and between Client and Engineer, dated effective as of the **27th** day of **May 2020**, with the same force and effect as if all of the terms of such Master Agreement were recited verbatim herein. Conflicts between the Master Agreement and this Proposal to be governed and controlled by this Proposal.

We appreciate the opportunity to work with you on this project. If this proposal meets with your approval, please acknowledge such by signing this proposal letter and returning it to our office via email, fax or US Mail for our records. Receipt of the executed document serves as authorization for us to proceed with the work.

Sincerely,

Pape-Dawson Engineers, Inc.

Chris Noe, P.E.

Associate Vice President

Cara C. Tackett, P.E.

Sr. Vice President

### **Attachments**

- Exhibit A – Estimate of Costs

Java C. Jacks

- Exhibit B CMI Organization Chart
- Exhibit C Estimated Staffing Matrix for 2022
- Exhibit D 2022 Hourly Rate Schedule

O:\Marketing\Proposals\Letters\2021\11\211129b1 (P4684-21) SA WO#6 12214-06.docx



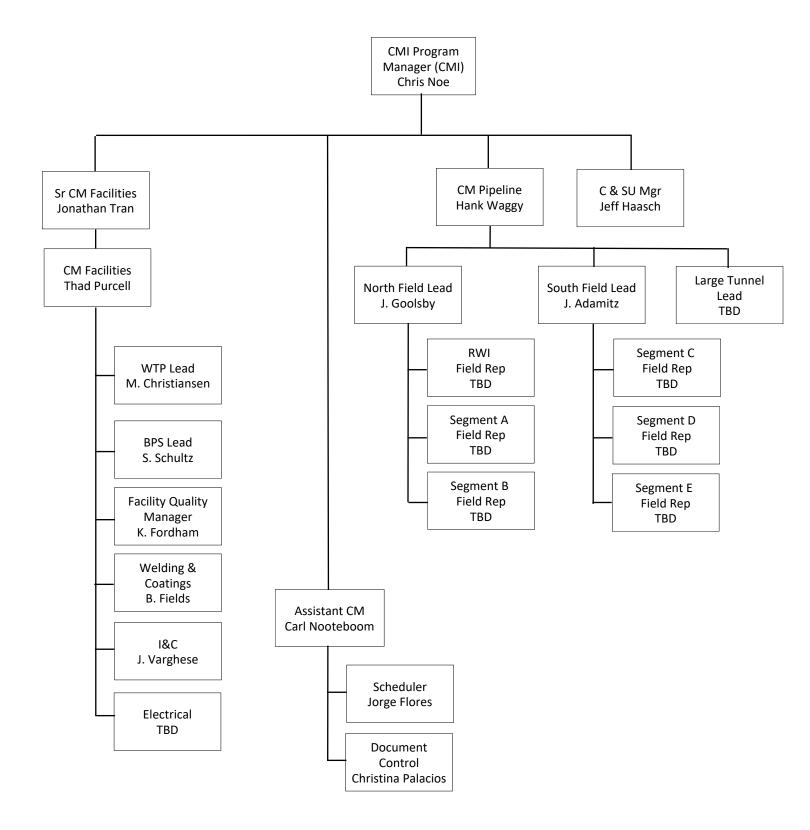
# EXHIBIT A Estimate of Costs

	2022						
	<u>Hr - total</u>	<u>Fee</u>					
A. Program Construction Manager Services							
Develop, Implement and Execute CMP	Jan -Dec 2022 (12 months)						
CMI Program Manager (PD)	1,040	239,200					
Assistant CM (PD)	2,496	524,160					
Scheduler (FCM)	1,560	296,400					
Administrative (PD)	520	54,600					
Develop, Implement and Maintain EDMS	Jan -Dec 2022	2 (12 months)					
Document Control Manager	2,080	270,400					
Provide Field Observation Platform	Jan -Dec 2022	2 (12 months)					
	<u>Total</u>	<u>Fee</u>					
Headlight Platform (10 seats x 12 months)	120	34,980					
GPS Equipment	60	7,920					
Provide Temporary Field Offices	Jan -Dec 2022	2 (12 months)					
	<u>Total</u>	<u>Fee</u>					
WTP Trailer (Rent/mo)	12	21,120					
WTP Utlities (Monthly)	12	2,640					
BPS Trailer (Rent)	12	21,120					
BPS Utlities	12	2,640					
Labor Subtotal	7,696	1,384,760					
Non-Labor Subtotal		90,420					
B. Field Construction Manager Services							
Execute CMP	Jan -Dec 2022	2 (12 months)					
Senior CM Facilities (TEC)	104	22,880					
CM Facilities (TEC)	2,496	549,120					
CM Pipelines (FCM)	1,560	343,200					
Labor Subtotal	4,160	915,200					
C. Owner's Field Representative Services							
WTP Field Observation and Reporting	Jan -Dec 2022	2 (12 months)					
WTP Lead Field Representative	2,496	449,280					
Facility Quality Manager	260	44,200					
Facility - Welding and Coatings Field Rep	260	44,200					
Facility Electrical Field Representative	1,040	197,600					
Facilities - I&C Field Representative	520	111,800					
BPS Field Observation and Reporting	Jan -Dec 2022 (12 months)						
BPS Lead Field Representative	2,496	449,280					
Facility Quality Manager	260	44,200					
Facility - Welding and Coatings Field Rep	260	44,200					
Facility Electrical Field Representative	1,040	197,600					
Facilities - I&C Field Representative	520	111,800					

# EXHIBIT A Estimate of Costs

	2022			
	<u> Hr - total</u>	<u>Fee</u>		
Senior Pipeline Field Oversight	Jan -Dec 2022 (12 month			
Large Tunnel Lead (PE)	1,440	288,000		
Pipe Lead Field Representative	2,496	424,320		
RWI Field Observation and Reporting	Jun -Oct 2022 (5 months)			
Inspector	704	109,120		
Segment A Field Observation and Reporting	Jan-Dec 2022	(12 months)		
Inspector	2,496	424,320		
Segment B Field Observation and Reporting	Feb-Dec 2022	2 (11 months)		
Inspector	2,304	391,680		
Segment C Field Observation and Reporting	Not St	tarted		
Inspector	-	ı		
Segment D Field Observation and Reporting	Sep-Dec 2022 (4 months)			
Inspector	624	102,960		
Segment E Field Observation and Reporting	Not Started			
Inspector	-	ı		
EST Field Observation and Reporting	Not St	tarted		
Inspector	-	-		
Labor Subtotal	19,216	3,434,560		
D. Commissioning Services				
Program-Wide Commissioning and Startup Oversight	Jan -Dec 2022	2 (12 months)		
Facility - Commissioning and Startup Manager	260	68,900		
Labor Subtotal	260	68,900		
TOTALS				
Labor Total	31,332	5,803,420		
Non-Labor Total		90,420		
Estimated Direct Expenses (2% of Labor)		116,068		
Grand Total		6,009,908		

# EXHIBIT B CMI Organization Chart



### EXHIBIT C Estimated Staffing for 2022

			2022												
		NTP	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Hours
A. Program Construction Manager Services															
Develop, Implement and Execute CMP															
CMI Program Manager (PD)	Chris Noe		87	87	87	87	87	87	87	87	87	87	87	83	1,040
Assistant CM (PD)	Carl Nooteboom		208	208	208	208	208	208	208	208	208	208	208	208	2,496
Scheduler (FCM)	Jorge Flores		130	130	130	130	130	130	130	130	130	130	130	130	1,560
Administrative (PD)	Gabriele Dooley		44	44	44	44	44	44	44	44	44	44	44	36	520
Develop, Implement and Maintain EDMS															
Document Control Manager	Christina Palacios		174	174	174	174	174	174	174	174	174	174	174	166	2,080
B. Field Construction Manager Services															,
Execute CMP															
Senior CM Facilities (TEC)	Jonathan Tran		9	9	9	9	9	9	9	9	9	9	9	5	104
CM Facilities (TEC)	Thad Purcell		208	208	208	208	208	208	208	208	208	208	208	208	2,496
CM Pipelines (FCM)	Hank Waggy	Ì	130	130	130	130	130	130	130	130	130	130	130	130	1,560
C. Owner's Field Representative Services	33,														
WTP Field Observation and Reporting		Jul-21													
WTP Lead Field Representative	Mark Christiansen	7	208	208	208	208	208	208	208	208	208	208	208	208	2,496
Facility Quality Manager	Kirkland Fordham		18	22	22	22	22	22	22	22	22	22	22	22	260
Facility - Welding and Coatings Field Rep	Billy Fields		-	-	26	26	26	26	26	26	26	26	26	26	260
Facility Electrical Field Representative	TBD		-	-	104	104	104	104	104	104	104	104	104	104	1,040
Facilities - I&C Field Representative	Josh Varghese		-	-	52	52	52	52	52	52	52	52	52	52	520
BPS Field Observation and Reporting	Ü	Oct-21													
BPS Lead Field Representative	Stephanie Schultz		208	208	208	208	208	208	208	208	208	208	208	208	2,496
Facility Quality Manager	Kirkland Fordham		18	22	22	22	22	22	22	22	22	22	22	22	260
Facility - Welding and Coatings Field Rep	Billy Fields		-	-	26	26	26	26	26	26	26	26	26	26	260
Facility Electrical Field Representative	TBD		-	-	104	104	104	104	104	104	104	104	104	104	1,040
Facilities - I&C Field Representative	Josh Varghese		-	-	52	52	52	52	52	52	52	52	52	52	520
Delivery Points Field Observation and Reporting		Nov-21													
BPS Lead Field Representative	Stephanie Schultz		Include	ed in W	TP & E	PS Effo	rt								-
BPS Electrical Field Representative	TBD		Include	ed in W	TP & E	PS Effo	rt								-
Facility Quality Manager	Kirkland Fordham		Include	ed in W	TP & E	BPS Effo	rt								-
Senior Pipeline Field Oversight															
Tunnel Field Representative (PE)	TBD - PE		-	-	-	-	-	-	140	260	260	260	260	260	1,440
Pipe Lead Field Representative (South)	Jason Adamitz		-	-	-	-	-	-	-	-	-	-	-	-	-
Pipe Lead Field Representative (North)	James Goolsby		208	208	208	208	208	208	208	208	208	208	208	208	2,496
Field Observation and Reporting															
RWI Field Observation and Reporting	TBD	Jul-21	-	-	-	176	176	176	176	-	-	-	-	-	704
Segment A Field Observation and Reporting	TBD	Oct-21	208	208	208	208	208	208	208	208	208	208	208	208	2,496
Segment B Field Observation and Reporting	TBD	Jan-22	16	208	208	208	208	208	208	208	208	208	208	208	2,304
Segment C Field Observation and Reporting	TBD	Nov-22	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment D Field Observation and Reporting	TBD	Aug-22	-	-	-		-	-	-	-	-	208	208	208	624
Segment E Field Observation and Reporting	TBD	Nov-22	-	-	-	-	-	-	-	-	-	-	-	-	-
Elevated Storage Tanks	TBD	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-
D. Commissioning Services															
Program-Wide Commissioning and Startup Oversight		Jan-22													
Facility - Commissioning and Startup Manager	Jeff Haasch			26	26	26	26	26	26	26	26	26	13	13	260
TOTALS	<u> </u>														31,332

### EXHIBIT D 2022 HOURLY RATES

Key Staff	Range	(\$/Hr)				
Principal In Charge	\$3	00				
Project Manager (CMI)	\$230					
Construction Manager	\$2	20				
Assistant Construction Manager	\$210	\$215				
Commissioning Manager	\$2	65				
Full-Time Inspectors (1)	Range	(\$/Hr)				
Pipeline (Senior)	\$155	\$170				
Pipeline (Junior)	\$110	\$120				
Facility - Building/Structural/Mechanical	\$180	\$205				
Facility - Quality Manager	\$160	\$180				
As-Needed Inspectors (2)	Range (\$/Hr)					
Electrical / I&C	\$200	\$220				
CWI/Coatings	\$155	\$175				
Cathodic Protection	\$190	\$220				
Process Equipment	\$180	\$205				
Tunnel (P.E.)	\$200	\$225				
Support	t Range (\$/Hr)					
Scheduler	\$190	\$200				
Administrative	\$100	\$110				
SharePoint Manager	\$150	\$170				
SharePoint Tech	\$110	\$130				
Document Control Manager	\$130	\$135				
Document Control Assistant	\$85	\$100				
Notes						
(1) Rates <b>include</b> costs for vehicle, per diem, and lodging						
(2) Mileage, vehicle, and lodging costs may be charged for this group at standard allowable rates						

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.6** Discussion and possible direction to Staff regarding the criteria and scoring to be utilized in the Authority's Request for Qualifications for Operation and Maintenance of the Carrizo Water Supply Project. ~ *Graham Moore, P.E., Executive Director* 

### Background/Information

Staff is in the process of finalizing the Request for Proposals for the Operations and Maintenance of the Authority's Carrizo Water Supply Project. The RFP is being setup as a 3-year base contract with two 1-year extensions. Below is they key criteria under consideration:

### Key Criteria:

- Team Qualifications
- Project Approach
  - Consider Various Operational Scenarios:
    - Standard Operations (M-F 8A-5P with weekend checks)
    - Emergency Operations
    - Commissioning
  - Ongoing Maintenance
- Price Proposal

Staff would like input from the Technical Committee on the evaluation matrix – the following criteria and points are proposed:

Evaluation Criteria	Max Points
Responsiveness of the Proposal	Pass/Fail
Financial Stability	Pass/Fail
Team Qualifications	30 points
Project Approach	50 points
Price Proposal	20 points
TOTAL MAX AVAILABLE POINTS	100 points

Staff is anticipating issuing the RFQ on Friday, December 17<sup>th</sup> with responses due on February 10<sup>th</sup>.

#### **Technical Committee Decision Needed:**

Possible direction to Staff.

#### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**F.7** Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ Graham Moore, P.E., Executive Director

Gonzales County Underground Water Conservation District (GCUWCD)
The GCUWCD is scheduled to meet on December 14th.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on December 21st...

Groundwater Management Area 13 No update.

Region L Planning Group No update.

Guadalupe-Blanco River Authority; Hays County Activities; CAPCOG Activities
Staff met with GBRA and other regional participants to discuss possible cooperation in short and long-term water supply projects. The conversation is expected to continue in 2022 with focus on the projects that are already planned by all entities. No set goals or expectations have been set for how and what the coordination will include. Staff will continue to keep the Technical Committee updated.

#### **Technical Committee decision needed:**

None.

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**G.** EXECUTIVE DIRECTOR REPORT - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director* 

### Consultant Invoices Paid

• Below are reports on the consultant invoices paid in October.

#### FY 20-21 CONSULTANT INVOICES PAID IN OCTOBER 2021

	1 1 20-21 001	TOOLIMITI	1VOICES I AIL	7 114 00 100	LIX ZUZ I	
				% of		
	Total	Current	Invoiced-to-	Contract		Notes/
Consultant	Authorized	Invoice	Date	Invoiced	Remaining	Anomalies
LAN - Kyle/Buda Design	\$76,971.62	\$0.00	\$12,009.70	16%	\$64,961.92	
RW Harden	\$30,000.00	\$540.00	\$12,782.31	43%	\$17,217.69	
Tx Solutions Group	\$72,000.00	\$0.00	\$72,000.00	100%	\$0.00	
BGE - Ph 1A CA	\$7,110.08	\$0.00	\$1,400.30	20%	\$5,709.78	
Kent Alan Sick - ROW						
Legal	\$45,000.00	\$0.00	\$7,916.40	18%	\$37,083.60	
LNV - GIS Svcs	\$16,693.63	\$236.25	\$15,102.75	90%	\$1,590.88	
Armstrong, Vaughan &						
Associates, P.C.	\$10,930.00	\$0.00	\$10,930.00	100%	\$0.00	
J.R. Tolles &						
Associates, Inc.	\$245,000.00	\$20,619.00	\$210,140.00	86%	\$34,860.00	
Lloyd Gosselink	-					
Rochelle & Townsend	\$125,000.00	\$19,000.87	\$105,308.86	84%	\$19,691.14	
CD&P - Public						
Relations	\$45,404.50	\$0.00	\$34,108.03	75%	\$11,296.47	
MLA Labs, Inc						
Segment B	\$6,773.00	\$0.00	\$398.00	6%	\$6,375.00	
HDR - 2021 Rate Study	\$16,125.00	\$0.00	\$0.00	0%	\$16,125.00	
Law Offices of Patricia						
Erlinger Carls	\$25,000.00	\$1,612.80	\$2,715.30	11%	\$22,284.70	
Total	\$722,007.83	\$42,008.92	\$484,811.65		\$237,196.18	

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

• On the following page is the report on the Phase 1B invoices paid in October.

PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN SEPTEMBER 2021

	THAT IST I	EU-ET GOMGGETAM	I INVOICES PAID II	% of	IV ZUZ I	
			Invoiced-to-	Contract		Notes!
Consultant	Total Authorized	Current Invoice	Date	Invoiced	Remaining	Anomalies
Kimley-Horn Ph 1B						
Owner's Rep WO4	\$1,319,033.52	\$0.00	\$1,319,033.52	100%	\$0.00	
Kimley-Horn Ph 1B						
Owner's Rep WO5	\$2,685,433.00	\$682,992.56	\$1,056,737.20	39%	\$1,628,695.80	
·						
Blanton - Environmental	\$875,510.28	\$146,139.55	\$681,717.17	78%	\$193,793.11	
LAN - Segment A Prelim	\$116,364.20	\$9,457.40	\$11,724.00	10%	\$104,640.20	
LAN - Segment A Final	\$447,554.89	\$71,277.43	\$370,470.04	83%	\$77,084.85	
KFA - Segment B Prelim	\$13,275.94	\$0.00	\$0.00	0%	\$13,275.94	
KFA - Segment B Final	\$775,215.97	\$96,095.05	\$641,875.82	83%	\$133,340.15	
	·		·			
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C Final	\$2,522,617.09	\$333,080.18	\$2,323,767.40	92%	\$198,849.69	
_						
FNI - Segment D Prelim	\$63,533.66	\$0.00	\$0.00	0%	\$63,533.66	
FNI - Segment D	,				,	
Final	\$993,177.03	\$95,599.16	\$865,975.19	87%	\$127,201.84	
Walker - Segment E	7000,111100	100,000.10	7000,010.10	0.7.	7121,201.01	
Prelim	\$58,638.01	\$0.00	\$20,484.77	35%	\$38,153.24	
Walker - Segment E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10.00	722,72		100,100.21	
Final	\$1,094,367.61	\$92,541.59	\$789,963.59	72%	\$304,404.02	
LAN - ROW Acquisition	\$1,601,100.28	\$217,309.88	\$786,543.73	49%	\$814,556.55	
DTR&G	\$1,272,719.30	\$179,875.65	\$976,594.67	77%	\$296,124.63	
CBRE - Appraisals	\$1,784,150.00	\$90,000.00	\$656,700.00	37%	\$1,127,450.00	
CP&Y - Survey	\$984,980.00	\$82,417.50	\$588,990.00	60%	\$395,990.00	
RW Harden - WDH	,	, , , , , , , , , , , , , , , , , , , ,	,			
Const Admin	\$358,153.60	\$39,886.00	\$321,578.00	90%	\$36,575.60	
LNV-RWI	\$273,573.86	\$26,345.00	\$155,933.86	57%	\$117,640.00	
Walker Partners - WTP	,	,	,		,	
Final Design	\$1,029,963.16	\$24,997.75	\$966,578.78	94%	\$63,384.38	
FNI - BPS Prelim	\$4,772.50	\$0.00	\$4,772.50	100%	\$0.00	
FNI - BPS Final	\$838,134.63	\$43,583.27	\$587,285.13	70%	\$250,849.50	
Plummer - Inline						
Elevated Tank Prelim	\$42,799.42	\$0.00	\$39,069.35	91%	\$3,730.07	
Plummer - Inline						
Elevated Tank Final	\$423,526.00	\$96,936.55	\$111,357.55	26%	\$312,168.45	
Pape-Dawson - CM&I						
WO#1	\$16,880.44	\$0.00	\$16,380.03	97%	\$500.41	
Pape-Dawson - CM&I						
WO#2	\$147,500.00	\$8,035.00	\$138,370.00	94%	\$9,130.00	
Pape-Dawson - CM&I					<u> </u>	
WO#3	\$74,460.00	\$1,320.00	\$72,680.00	98%	\$1,780.00	
Pape-Dawson - CM&I						
WO#4	\$100,600.00	\$19,245.00	\$100,597.50	100%	\$2.50	
Pape-Dawson - CM&I						
WO#5	\$2,034,310.00	\$333,185.65	\$333,185.65	16%	\$1,701,124.35	
Hicks & Co - WDH						
Environmental	\$15,874.00	\$0.00	\$303.00	2%	\$15,571.00	
Walker Partners - WTP						
CA Sves	\$1,215,171.00	\$81,695.00	\$18,436.71	2%	\$1,196,734.29	
CP&Y - SCADA						
Programming Svcs	\$970,150.00	\$79,340.00	\$79,340.00	8%	\$890,810.00	
Total	<b>\$24,168,638.63</b>	\$2,851,355.17	<b>\$14,036,445.16</b>		<b>\$10,132,193.47</b>	

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

### **Approved Change Orders**

CHANGE ORDERS APPROVED IN OCTOBER 2021									
Consultant	Original Authorization	Change Orders to Date	Change Order Approved this Month	New Total Contract Amount					
Freese & Nichols: 1B BPS & DP Prelim	\$ 771,617.00	\$ 44,408.00		\$ 816,025.00					
CP&Y: Ph 1B Program Survey	\$ 3,375,780.00	\$ 83,500.00	\$ -	\$ 3,459,280.00					
Freese & Nichols: 1B Segment D (Final)	\$ 1,999,464.00	\$ 173,739.09	\$ -	\$ 2,158,203.09					
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 262,949.00	\$ 6,358.00	\$ 2,166,026.00					
Blanton & Assoc: Environmental Invest.	\$ 1,398,775.00	\$ 150,703.00	\$ -	\$ 1,549,478.00					
K Friese & Assoc: 1B Seg B Final Design	\$ 1,830,994.00	\$ 306,242.13	\$ -	\$ 2,063,949.13					
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05					
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 85,337.00	\$ -	\$ 1,504,037.00					
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 123,128.00	\$ 25,000.00	\$ 1,313,549.00					
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 280,021.00	\$ -	\$ 2,968,331.00					
Freese & Nichols: 1B BPS & DP Final	\$ 1,580,519.00	\$ 126,073.00	\$ -	\$ 1,706,592.00					
Pape Dawson: CMI	\$ 57,520.00	\$ 43,080.00	\$ -	\$ 100,600.00					

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

**H.** COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.

### Background/Information

The Committee Members have an opportunity to make announcements or to request that items be added to future Board or Committee agendas.

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

- I.1 Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:
  - A. Water supply partnership options
  - B. Groundwater leases
  - C. Acquisition of real property for water supply project purposes

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

- **I.2** Action from Executive Session on the following matters:
  - A. Water supply partnership options
  - B. Groundwater leases
  - C. Acquisition of real property for water supply project purposes

### **COMMITTEE MEMBER PACKETS**

Wednesday, December 8th, 2021 at 3:00 P.M. Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

J. ADJOURNMENT