This Agenda is posted pursuant to Chapter 551, Texas Government Code

Matters to Come Before a Meeting of the Board of Directors of Tarrant Regional Water District

To Be Held the 20th Day of May 2025 at 9:00 a.m.
Front Doors to the Main Admin Building at 800 East Northside Drive Will Open to the Public at 8:30 a.m. and Close Fifteen (15) Minutes After the Meeting Adjourns

TRWD Board Room
800 East Northside Drive
Fort Worth, Texas 76102

PLEASE BE ADVISED THAT A QUORUM OF THE BOARD OF DIRECTORS OF TRWD WILL CONVENE ON THE ABOVE DATE AND TIME FOR THE PURPOSE OF CONSIDERING AND ACTING UPON THE MATTERS SET FORTH IN THIS AGENDA. THE LINK TO VIEW AND LISTEN TO THE MEETING VIA INTERNET IS HTTPS://WWW.TRWD.COM/BOARDVIDEOS. A RECORDING OF THE MEETING WILL ALSO BE AVAILABLE AT HTTPS://WWW.TRWD.COM/BOARDVIDEOS.

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1. **Pledges of Allegiance**

2. **Public Comment**

   Citizens may present public comment at this time, limited to a total time of three (3) minutes per speaker, unless the speaker addresses the Board through a translator, in which case the limit is a total time of six (6) minutes. Each proposed speaker must have completed and submitted a speaker card prior to the commencement of the meeting, identifying any agenda item number(s) and topic(s) the speaker wishes to address with the Board. By law, the Board may not deliberate, debate, or take action on public comment but may place the item on a future agenda.

3. **Consider Approval of the Minutes from the Meeting Held on April 15, 2025**

4. **Consider Approval of Contract Amendment with AECOM Technical Services, Inc. for Program Wide Services in Support of Phase 4 of the Integrated Pipeline Project - Ed Weaver, IPL Program Manager**

5. **Consider Approval of Contract with McKee Utility Contractors, LLC. for Cedar Creek Section 2 Pipeline Replacement Phase 1B Construction - Jason Gehrig, Infrastructure Engineering Director**

6. **Consider Approval of Contract with ETTL Engineers and Consultants for Materials Testing of Cedar Creek Section 2 Pipeline Replacement Phase 1B - Jason Gehrig, Infrastructure Engineering Director**

7. **Consider Approval of Contract with Kleinfelder, Inc. for Materials Testing of Cedar Creek Section 2 Pipeline Replacement Phase 1B - Jason Gehrig, Infrastructure Engineering Director**

8. **Consider Approval of Contract Amendment with CP&Y, Inc. dba STV Engineering for Additional Engineering Services Related to Cedar Creek Lake Pump Station Chemical Building Structural Improvements - Jason Gehrig, Infrastructure Engineering Director**

9. **Consider Approval of Contract Amendment with CDM Smith for Engineering Design and Bidding Services for Richland-Chambers Lake and Cedar Creek Lake Pump Stations Electrical Buildings and Equipment - Jason Gehrig, Infrastructure Engineering Director**

10. **Consider Approval of Contract Amendment with Schnabel Engineering, LLC for the Lake Bridgeport Dam Piezometer Project - Jason Gehrig, Infrastructure Engineering Director**

11. **Consider Approval of Contract Amendment with Freese and Nichols, Inc. for Engineering Services for Eagle Mountain Dam - Original Services Spillway Evaluation (Phase II) - Zachary Huff, Water Resources Engineering Director**

12. **Consider Approval of Contract with Kimley-Horn and Associates, Inc. for Trail Safety Signage and Striping Design and Construction Services - Darrell Beason, Chief Operations Officer**

13. **Executive Session under Texas Government Code:**

    Section 551.071 of the Texas Government Code, for Private Consultation with its Attorney about Pending or Contemplated Litigation or on a Matter in which the Duty of the Attorney to the Governmental Body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas Clearly Conflicts with this Chapter; and

    Section 551.072 of the Texas Government Code, to Deliberate the Purchase, Exchange, Lease or Value of Real Property

14. **Consider Approval of Acceptance of Donation of a Permanent Easement in the Felix Mulliken Survey, Abstract No. 1045, Tarrant County, Texas - Steve Christian, Real Property Director**

15. **Discussion and Potential Action Regarding TRWD Participation in the Tarrant Appraisal District Board Appointment Process - Stephen Tatum, General Counsel**

16. **Board Member Service Recognition - Leah King, Board President**

17. **Administer Oaths of Office - Leah King, Board President, and James Hill, Board Vice President**

18. **Presentations**

    - **Water Resources - Rachel Ickert, Chief Engineering Officer**
    - **Legislative Update - Stephen Tatum, General Counsel**

19. **Future Agenda Items**

20. **Schedule Next Board Meeting**

21. **Adjourn**

MINUTES OF A MEETING OF THE BOARD OF DIRECTORS OF
TARRANT REGIONAL WATER DISTRICT
HELD ON THE 15th DAY OF APRIL 2025 AT 9:00 A.M.

The call of the roll disclosed the presence of the Directors as follows:

Present
Leah King
James Hill
Mary Kelleher
C.B. Team
Paxton Motheral

Also present were Dan Buhman, Chris Akers, Airin Barnett, Darrell Beason, Travis Bird, Lisa Cabrera, Ellie Garcia, Zach Hatton, Zachary Huff, Rachel Ickert, Courtney Kelly, Laramie LaRue, Wendy Lockhart, Sandy Newby, Stephen Tatum and Ed Weaver of the Tarrant Regional Water District (District or TRWD).

1.

All present were given the opportunity to join in reciting the Pledges of Allegiance to the U.S. and Texas flags.

2.

Public comment was received from Eric Crile, who spoke regarding Tarrant Appraisal District.

3.

Director Hill moved to approve the minutes from the meeting held on March 25, 2025. Director Team seconded the motion, and the votes were 5 in favor, 0 against. It was accordingly ordered that these minutes be placed in the permanent files of the District.

4.

With the recommendation of management, Director Hill moved to approve the consent agenda. Consent agenda items include:

1) Contract with Brothers Roofing to replace the roofs at Richland-Chambers Pump Station and Cedar Creek Pump Station with FM Approved Roofing Systems. The cost for Richland-Chambers is $176,310 and the cost for Cedar Creek is $146,880. Funding for this item is included in the Fiscal Year 2025 Revenue Budget.
2) Contract in an amount not-to-exceed $173,000 with Ha Pair Construction for repairs to the Joint Booster Pump Station #3 driveway. Funding for this item is included in the Fiscal Year 2025 Revenue Budget.
3) Contract at a unit cost of $1.68 per gallon and a total not-to-exceed amount of $588,000 with Brenntag Southwest, Inc. to furnish and deliver sodium hypochlorite to the Richland-Chambers Lake Pump Station. Funding for this item is included in the Fiscal Year 2025 Revenue Budget.

Director Motheral seconded the motion, and the votes were 5 in favor, 0 against.

5.

With the recommendation of management, Director Hill moved to approve a contract amendment in an amount not-to-exceed $9,043,451 with Freese and Nichols, Inc. for design of Section 16 pipeline and environmental permitting to support Phase 4 of the Integrated Pipeline Project. The current contract amount is $28,378,664.95 and the revised not-to-exceed contract amount, including this amendment is $37,422,115.95. In addition, the General Manager or his designee is granted authority to execute all

documents associated with the contract amendment. Funding for this item is included in the Bond Fund. Director Kelleher seconded the motion, and the votes were 5 in favor, 0 against.

6.

With the recommendation of management, Director Team moved to approve a Letter of Agreement for Co-Funding in an amount not-to-exceed $150,000 with The Water Research Foundation to perform the tasks and activities outlined in Project #5336 “Design Guidelines for Direct-Bury Large-Diameter Butterfly Valves.” Funding for this item is included in the Fiscal Year 2025 Revenue Fund Budget. Director Kelleher seconded the motion, and the votes were 5 in favor, 0 against.

7.

With the recommendation of management, Director Kelleher moved to approve a contract in an amount not-to-exceed $4,078,417 with BAR Constructors, Inc. for construction of surface facilities at the aquifer storage and recovery demonstration well site at the Trinity River Authority’s Tarrant County Water Supply Project water treatment plant. Funding for this item is included in the Bond Fund. Director Hill seconded the motion, and the votes were 5 in favor, 0 against.

8.

With the recommendation of management, Director Motheral moved to approve an interlocal agreement in an amount not-to-exceed $550,000 with the City of Fort Worth to construct a kayak launch and trail extension at Riverside Park. The City shall, upon completion of construction of the improvements by the District, reimburse the District for construction. Director Team seconded the motion, and the votes were 5 in favor, 0

against.

9.

With the recommendation of management, Director Team moved to appoint Mr. Jay Chapa, the current Fort Worth City Manager, to the Board of Directors of the Trinity River Vision Authority (TRVA) for the remainder of Mr. David Cooke's unexpired term, which ends on August 16, 2026. By Resolution dated August 21, 2018, the TRWD Board of Directors appointed Mr. David Cooke to a four-year term as a director of TRVA. The TRWD Board re-appointed Mr. Cooke for an additional four-year term on August 16, 2022. Mr. Cooke has retired from his position as City Manager of the City of Fort Worth and the City has requested that Mr. Chapa fill his role as a TRVA Director. Director Kelleher seconded the motion, and the votes were 5 in favor, 0 against.

10.

Presentations

- Water Resources presented by Rachel Ickert, Chief Engineering Officer
- Capital Improvement Program presented by Rachel Ickert, Chief Engineering Officer
- General Manager Goals presented by Dan Buhman, General Manager

The Board of Directors recessed for a break from 10:06 a.m. to 10:11 a.m.

11.

The Board next held an Executive Session commencing at 10:11 a.m. under Section 551.071 of the Texas Government Code to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code; and Section

551.072 of the Texas Government Code to Deliberate the Purchase, Exchange, Lease or Value of Real Property; and Section 551.076 of the Texas Government Code, Regarding Security Devices or Security Audits.

Upon completion of the executive session at 10:17 a.m., the President reopened the meeting.

12.

With the recommendation of management, Director Team moved to approve a contract in the amount of $364,733.23 with Flair Data Systems to renew a Cisco network support subscription and replace Cisco hardware that has reached end-of-life. Funding for this item is included in the Fiscal Year 2025 Revenue Fund Budget. Director Motheral seconded the motion, and the votes were 5 in favor, 0 against

13.

There were no future agenda items approved.

14.

The next board meetings were scheduled for May 14, 2025, and May 20, 2025.

15.

There being no further business before the Board of Directors, the meeting was adjourned.

_____ _____

President Secretary

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 4

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract Amendment with AECOM Technical Services, Inc. for Program Wide Services in Support of Phase 4 of the Integrated Pipeline Project**

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract amendment **in an amount not-to-exceed $4,787,638** with AECOM Technical Services, Inc. to perform program wide services including initial site surveys and preliminary geotechnical sampling, testing, analyses, and local permitting to support engineering design of Integrated Pipeline Phase 4. The current contract amount is $10,597,516.10 and the revised not to exceed contract amount, including this amendment, will be $15,385,154.10.

DISCUSSION:

The RWBeck/AECOM team was originally selected and contracted in 2009 to provide business, planning, computer software/technology support and right-of-way procurement services by RWBeck and program wide engineering management, construction management, system hydraulics, and technical support services by AECOM. RWBeck ‘s business portion was later merged with TRWD Engineering, Accounting/Finance, and Operations while AECOM has continued to perform the same initial roles and functions.

Current TRWD demand projections and capital improvement planning indicate a need for part of the IPL Phase 4 to be complete, online, and operational in 2032. The IPL Phase 4 expansion includes the Richland-Chambers Lake Pump Station (JRC1), Section 16 pipeline (from Richland-Chambers to the main trunkline of the Integrated Pipeline).

AECOM provides program-wide technical services in support of the various design engineering teams for Phase 4 improvements. This request includes scope and fee for the following tasks:

1. Project Management and Coordination
2. System Hydraulic and Transient Analysis
3. Local, State and Federal Permitting
4. Subsurface Utility Engineering
5. Geotechnical Investigation
6. Surveying

The IPL Program strives to achieve 25% DBE/HUB participation when and where possible. AECOM intends to subcontract 24.4% of the project work to qualified DBE/HUB firms under the Fair Opportunities in Purchasing and Contracting Program.

Management additionally requests the Board of Directors grant authority to the General Manager or his designee to execute all documents associated with the contract described herein.

This scope of work includes a special services contingency for release only at the Program Manager's approval.

Staff Recommendation and Fee Summary are attached.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Ed Weaver
IPL Program Manager

Memo

TO: Ed Weaver

FROM: Shelly Hattan

COPY: Coy Veach

DATE: April 30, 2025

SUBJECT: Recommendation for Approval of Amendment to Contract with AECOM Technical Services, Inc. for Program-wide Services in Support of Phase 4 of the Integrated Pipeline Project

AECOM Technical Services, Inc. provides Program Management Services for the IPL Program. This contract is an amendment to the contract for IPL Program Management services. This request includes scope and fee to perform program management and program wide services for Phase 4 improvements (JRC1, PL16, JB2 and JB3 Expansion) through bid phase. Negotiations on proposed scope and fees produced an agreement on recommended scope, fees and contract terms and conditions.

This request includes scope and fee for the following six tasks:

1. Project Management and Coordination,
2. System Hydraulic and Transient Analysis,
3. Local Permitting,
4. Subsurface Utility Engineering (SUE),
5. Geotechnical Investigation, and
6. Surveying

There are no requirements for consultants to meet DBE/HUB participation goals under the Fair Opportunities in Purchasing and Contracting Program for this Contract. AECOM intends to subcontract 24.4% of the project work to qualified DBE/HUB firms under the Fair Opportunities in Purchasing and Contracting Program.

Staff recommends award of this contract amendment for Professional Services to AECOM Technical Services, Inc. for IPL Program Management Services in the not to exceed amount of **$4,787,638.** The Fee Summary is attached.

Fee Summary
AECOM Technical Services, Inc.
IPL Phase 4 – Design Support
Program Management and Program-wide Services

Task No.	Description	Estimated Fee
Basic Services		
100	Program-wide Services - Project Management and Coordination	$381,071
200	Program-wide Services - System Hydraulic and Transient Analysis	$842,335
300	Program-wide Services - Local Permitting	$217,529
400	Program-wide Services - Subsurface Utility Engineering (SUE)	$255,643
500	Program-wide Services - Geotechnical Investigation	$1,264,848
600	Program-wide Services - Surveying	$1,598,227
	Total Budget for Basic Services	**$4,559,653**
Special Services		
999	Special Services	$227,985
	Total Budget for Amendment	**$ 4,787,638**

This scope of work includes a Special Services Contingency to be released only with the IPL Program Manager's approval.

Fair Opportunity Purchasing

Project: Consider approval of a Contract Amendment with AECOM Technical Services for Program Management and Program-wide Services related to Preliminary Site Evaluations and Final Site Selection for the Joint Richland Chambers Lake Pump Station of the Integrated Pipeline Project

Not to Exceed $4,787,638

AECOM Technical Services, Inc., an Engineering and Consulting company with local offices in Dallas, Texas and Fort Worth, Texas, has signed the IPL Project Fair Opportunity Purchasing documentation, and proposes using the following sub-consultants:

Project Category: Engineering, Bid and Construction Services

LOCAL/NON-LOCAL CONTRACT SUMMARY

		Amount	Percent
Local Contracts		$ 4,787,638	100.0%
Non-Local Contracts			0.0%
	Total This Agenda	$ 4,787,638	

LOCAL/NON-LOCAL MWBE/HUB PARTICIPATION THIS ACTION

Local	Certification	Percentage
HVJ	MBE / HUB	24.4%

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 5

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract with McKee Utility Contractors, LLC. for Cedar Creek Section 2 Pipeline Replacement Phase 1B Construction**

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed $132,500,000** with McKee Utility Contractors, LLC. for the Cedar Creek Section 2 Pipeline Replacement Phase 1B Construction.

DISCUSSION:

The Cedar Creek Section 2 Pipeline was originally constructed over 50 years ago. The District's robust pipeline integrity program identified significant portions of the existing 72-inch pipe as structurally defective in this area, reaching the end of useful life. The Cedar Creek Section 2 Pipeline Replacement is a multi-phase project to address those distressed Section 2 segments and increase the flow capacity to meet future needs.

Phase 1B includes the removal and replacement of approximately 55,000 linear feet of existing 72-inch Cedar Creek pipeline with new 90-inch and 102-inch spiral welded steel pipe, the installation of five large diameter owner-furnished valves, and the installation of a monolithic isolation joint and 90-inch owner furnished butterfly valve assembly. The contractor will install the new Cedar Creek pipeline primarily in an open trench. Trenchless construction includes five (5) new tunnels and reuse of two (2) existing casing/liner plate crossings. Construction also includes replacement of the existing corrosion protection system on both the Cedar Creek and Richland-Chambers Section 2 pipelines.

Competitive Sealed Proposals were solicited per Texas law, and five compliant proposals were received. The District evaluation team determined McKee Utility Contractors, LLC. submitted the proposal providing the best value to the District. Supporting recommendations are also attached.

McKee Utility Contractors, LLC. is not a prime, certified business. McKee has sub-contracted portions of this contract and good faith efforts were met, resulting in a diverse business participation commitment of 7.25%.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

Cedar Creek Section 2 Pipeline Replacement Phase 1B (CCRPL-2 PH1B)
Tabulation of Scoring

Item	Criteria	Points	Thalle Construction	McKee Utility Contractors	Garney Construction	Harper Brothers	Traylor Sundt
A	Proposed Contract Price and Contract Time						
	Proposed Contract Price		$125,639,120.00	$132,500,000.00	$156,796,816.00	$169,176,622.00	$222,988,347.50
	Point Value	40	40.0	38.1	32.1	29.7	22.6
B	Contractor's Approach to the Project	20	18.0	20.0	18.0	18.0	19.0
C	Experience/past performance of Offeror	20	15.0	19.0	18.0	19.0	20.0
D	Experience and qualifications of proposed key personnel	20	15.0	19.0	18.0	18.0	20.0
Point		**100**	**88.0**	**96.1**	**86.1**	**84.7**	**81.6**

Black & Veatch Corporation
5420 LBJ Fwy, Ste 400, Dallas TX 75240
P +1 469 513-3191 E FunstonMT@bv.com

April 29, 2025

Tarrant Regional Water District
808 E. Northside Drive
Fort Worth, Texas 76102

CCRPL-2 Ph1B
B&V Project 403740
B&V File 60.2500

Attention: Donna Stephens

Subject: CCRPL-2 Phase 1B Recommendation of Award

Dear Ms. Stephens,

This letter provides the bid results of the bid opening held on April 11, 2025, as well as final proposal scoring determined by Tarrant Regional Water District (TRWD) personnel and the Construction Management (CM) Team. The Engineer's estimate for this project was $125,600,000. The bid and scoring results are as follows:

Criteria	Contract Price	Price and Time A	Project Approach B	Offeror Experience C	Personnel Experience D	Total
Possible Points		40.0	20.0	20.0	20.0	100.0
McKee Utility Contractors	$132,500,000.00	38.1	20.0	19.0	19.0	**96.1**
Thalle Construction	$125,639,120.00	40.0	18.0	15.0	15.0	**88.0**
Garney Construction	$156,796,816.00	32.1	18.0	18.0	18.0	**86.1**
Harper Brothers	$169,176,622.00	29.7	18.0	19.0	18.0	**84.7**
Traylor Sundt	$222,988,347.50	22.6	19.0	20.0	20.0	**81.6**

All contractors that submitted offers have completed projects of similar scope and size for TRWD and other water utilities in the recent past. Calls were made to check references for each offeror.
Given the large range of offers received, only the two low-offerors were interviewed in-person by TRWD, Freese and Nichols, and Black & Veatch. Following these interviews, scoring of all offerors was completed to determine the best value for TRWD.

While McKee was not the low offeror, they showed an excellent understanding of the project and their proposed approach included lessons learned from recent similar projects removing and recycling existing PCCP and installing new transmission pipeline parallel to an active PCCP line. McKee also proposed a schedule with a completion date 245 days earlier than the low offeror.

Therefore, Black & Veatch recommends that McKee Utility Contractors be awarded the contract for the proposed price of one hundred thirty-two million five hundred thousand dollars ($132,500,000.00).

If you have any questions concerning this recommendation, please contact me at funstonmt@bv.com or 469.513.3191.

Very truly yours,

Black & Veatch Corporation

Mark Funston, P.E.
Senior Engineering Manager

cc: Courtney Jalbert (TRWD)
Ana Stagg-Smith, P.E. (BV)
Mike McCure, P.E. (BV)

Recommendation for Award of Contract

Project: Cedar Creek Section 2 Pipeline Replacement Phase 1B (CCRPL-2 PH1B) **Project Number:**

Owner: Tarrant Regional Water District 24-106

Project Description:

Removal of approximately 55,000 linear feet of existing 72-inch Cedar Creek (CC) pre-stressed concrete cylinder pipe (PCCP). Construction of approximately 55,000 linear feet of new 90-inch and 102-inch raw water pipeline in the same trench as the 72-inch PCCP being removed. Construction is within the existing 130 foot-wide TRWD easement which also contains the 90-inch Richland Chambers line. Work includes coordination and construction of major services connections to the Cities of Midlothian and Mansfield. Project includes replacement of existing galvanic anode cathodic protection systems for both the CC and RC lines. Either CC or RC lines are to remain in service at all times.

Date Proposals Received: 4/11/2025 Proposal Tabulation Attached: ☒ Yes ☐ No

Recommended Contractor: McKee Utility Contractors

Recommended Amount of Contract Award: $132,500,000 Project Budget: $125,600,000

Contract Price within Available Funds: ☒ Yes ☐ No Funding Source: Bond Funds

Proposed Project Completion Days: 850

Contract Times meet District's Schedule: ☒ Yes ☐ No

Comments:

McKee's offer was not the lowest Contract Price offered, but did offer a 245-days earlier proposed completion date than apparent low offeror Thalle. This earlier completion date represents a substantial benefit to the District. See the attached summary of scoring. Thalle experienced turnover of proposed key personnel after proposals were received and other key personnel did not meet the specified experience requirements. McKee is proposing to use multiple crews meeting the experience criterion to accomplish the work within the proposed time and within the sequencing required in the Contract Documents. McKee's experience for both the company and proposed key personnel includes several comparable project completed within the last 5 years. This experience includes successfully salvaging existing PCCP pipe in a method that allows direct reuse of mortar materials and salvaging steel components. McKee's proposal detailed steps to protect the RC line during construction and in interviews this was covered in greater detail.

Review of the Proposals received indicates that the offer of the Recommended Contractor provides the best value to the District. A review of the Recommended Contractor's Statement of Qualifications and a check of the references provided indicates that the Recommended Contractor meets the qualification requirements specified in the Contract Documents and that Recommended Contractor's previous experience on similar projects has been acceptable. It is recommended that the Project be awarded to the Recommended Contractor in the amount of the Recommended Amount of Contract Award.

Recommended by: Coy M Veach **Date:** 4/28/2025

Printed Name: Coy Veach **Title:** Program Construction Manager

Organization: Freese and Nichols, Inc

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 6

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract with ETTL Engineers and Consultants for Materials Testing of Cedar Creek Section 2 Pipeline Replacement Phase 1B**

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed $487,325** with ETTL Engineers and Consultants for Materials Testing for Cedar Creek Section 2 Pipeline Replacement Phase 1B.

DISCUSSION:

The Cedar Creek Section 2 Pipeline was originally constructed over 50 years ago and presently has several areas of structurally defective 72-inch pre-stressed concrete cylinder pipe. The Cedar Creek Section 2 Phase 1B Pipeline Replacement is a multi-phase project to remove and replace approximately 55,000 linear feet of existing 72-inch Cedar Creek pipeline with new 90-inch and 102-inch spiral welded steel pipe.

To ensure quality installation by the contractor, the District's construction management team for this project will coordinate construction materials and inspection services to be provided by a specialized company.

Request for Statement of Qualifications for materials testing services for this project was solicited per statute (Texas Government Code 2254) and seven submittals were received. The District's evaluation team determined the most qualified vendors to provide the Category B materials testing services, which include soils compaction, concrete and hot mixed asphalt concrete testing, are ETTL and Kleinfelder.

Since the construction contractor is proposing to use multiple crews concurrently, the District has elected to contract both ETTL and Kleinfelder for providing materials testing services. This will mitigate the risk of materials testing potentially holding up construction progress. Scope and fee proposals have been developed accordingly, with the approximate materials testing work distribution to be 75% ETTL, 25% Kleinfelder.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

List of Submitting Firms

RFSOQ 25-089
MATERIALS TESTING

Due Date and Time:	March 7, 2025 at 2:00 PM

Name of Firm
Alliance Geotechnical Group, Inc.
ETTL Engineers & Consultants Inc.
Geotex Engineering, LLC
HVJ North Texas - Chelliah Consultants, Inc.
Kleinfelder, Inc.
Steel Inspectors of Texas, Inc
UES Professional Solutions 44, LLC

May 6, 2025

Donna Stephens
Tarrant Regional Water District
800 E. Northside Drive
Fort Worth, TX 76102

Reference: Cedar Creek Section 2 Pipeline Replacement Phase 1B
Midlothian - Mansfield, TX
P12-3010-25 RR

To whom it may concern,

ETTL Engineers and Consultants (ETTL) is pleased to submit this proposal for providing Construction Materials Testing (CMT) and related quality control services for the referenced project. For the purpose of this proposal, we have estimated quantities and tests that will be required in accordance with the information supplied. This is only an estimate for budgetary purposes. The actual costs for CMT services can decrease or increase with changes in the scope of work or with the contractor's work method. ETTL's total fee will be based on the actual amount of technician time and laboratory testing required for the project. These services will be performed on a unit price basis in accordance with the attached Schedule of Services and Fees.

ETTL meets the requirements of ASTM E329 and is an active participant in the CCRL and AMRL sample proficiency programs and is currently AASHTO accredited as well as USACE Validated. ETTL has experienced personnel to perform the necessary CMT services in accordance with the project specifications.

By execution of the proposal, the undersigned Client acknowledges and agrees that the document entitled "Terms and Conditions" has been provided or made available to Client and Client agrees that such Terms and Conditions shall be applied to the present Proposal and shall be fully binding upon Client. The Terms and Conditions are fully incorporated into this Proposal by reference as if set forth at length.

We appreciate the opportunity to submit this proposal for CMT services and look forward to working with you during the construction phase of this project. If there are any questions concerning this proposal or if we can be of further assistance, please contact us at your convenience.

Respectfully submitted,

Chris Taylor
Vice President - Operations

Samuel Welch
Estimator- Central and North Texas

ETTL Professional Engineering Certified of Registration F-3208

Clarifications

ETTL's office is located at:

2000 E. Randol Mill Rd. Ste. 613
Arlington, TX 76011
Phone: 817-962-0048

ETTL sampling/testing/observation services must be scheduled through dispatch including cancellations. Our dispatch is available at the number noted above, Monday through Thursday between the hours of 7:30am and 5:00pm and Fridays 8:00am through 12:00pm with the exception of Holidays. Calls received outside of this time frame will be handled by our voice mail system and will be checked the next working day morning. It is recommended that you schedule services through our dispatch during our regular working hours noted above. We require one working day (24 hours) advance notice for our services. Same day call-ins or after hour voice mail call-ins for work thefollowing day are subject to the availability of personnel.

Service is not guaranteed for same day call-in's.

Reinforcing Steel Inspections require adequate lighting in order to perform the inspection. The inspection needs to be scheduled during daylight hours and/or jobsite illumination needs to be provided by others in order to allow us to perform the required inspection. These inspections need to be scheduled independently of the concrete inspection.

At your request, ETTL's project manager will attend the pre-construction meeting for the project. Our project manager will answer any relevant questions regarding our service's for the project at that time. As the project progresses our project manager will be available to answer any questions you may have concerning our service's.

Three (3) paper copies of test reports are included for mail distribution as directed by the client at no additional charge. Additional mail copies of test reports requested and approved by the client will be charged at $0.45 per page to cover copying and mailing costs. There is no charge for additional distribution through our e-mail and web distribution system.

Compensation for our services will be based upon the actual sampling/testing/observations performed in accordance with the unit rates shown. The estimated budget that we have indicated is approximate and is based on our past experience with projects of similar type and scope. The estimated budget does not include cancellations/re-testing/re-inspection, and/or any changes and/or modifications to the contract documents.

Clarifications

If ETTL is selected to perform the sampling/testing/observation for the project we will require the following items in order to perform our services on your project.

Two complete sets of drawings and specifications.
Approved concrete mix designs for the project.
Report distribution list.

In addition, please be sure to add ETTL to the distribution list for all addendums and revisions on the project and notification of pre-construction meetings, where applicable, regarding soils, piers, concrete, masonry and structural steel.

All time is for a minimum of two hours or as noted. Overtime will be charged for all hours worked before 7:00am and after 5:00pm, for any time in excess of 8 hours per day or 40 hours per week, Saturdays, Sundays and Holidays. All time is Portal to Portal.

Project Engineering services on materials engineering and testing for consultation, analysis, report preparation and review, supervision and scheduling of field and laboratory personnel will typically be 0.4 to 0.7 hours per report.

This proposal is valid for sixty days from the listed proposal date.

All Invoices for our services are payable within 30 days with no retainage.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 7

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract with Kleinfelder, Inc. for Materials Testing of Cedar Creek Section 2 Pipeline Replacement Phase 1B**

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed $198,730** with Kleinfelder, Inc. for Materials Testing for Cedar Creek Section 2 Pipeline Replacement Phase 1B.

DISCUSSION:

The Cedar Creek Section 2 Pipeline was originally constructed over 50 years ago and presently has several areas of structurally defective 72-inch pre-stressed concrete cylinder pipe. The Cedar Creek Section 2 Phase 1B Pipeline Replacement is a multi-phase project to remove and replace approximately 55,000 linear feet of existing 72-inch Cedar Creek pipeline with new 90-inch and 102-inch spiral welded steel pipe.

To ensure quality installation by the contractor, the District's construction management team for this project will coordinate construction materials and inspection services to be provided by a specialized company.

Request for Statement of Qualifications for materials testing services for this project was solicited per statute (Texas Government Code 2254) and seven submittals were received. The District's evaluation team determined the most qualified vendors to provide the Category B materials testing services, which include soils compaction, concrete and hot mixed asphalt concrete testing, are ETTL and Kleinfelder.

Since the construction contractor is proposing to use multiple crews concurrently, the District has elected to contract both ETTL and Kleinfelder for providing materials testing services. This will mitigate the risk of materials testing potentially holding up construction progress. Scope and fee proposals have been developed accordingly, with the approximate materials testing work distribution to be 75% ETTL, 25% Kleinfelder.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

List of Submitting Firms

RFSOQ 25-089
MATERIALS TESTING

Due Date and Time:	March 7, 2025 at 2:00 PM

Name of Firm
Alliance Geotechnical Group, Inc.
ETTL Engineers & Consultants Inc.
Geotex Engineering, LLC
HVJ North Texas - Chelliah Consultants, Inc.
Kleinfelder, Inc.
Steel Inspectors of Texas, Inc
UES Professional Solutions 44, LLC

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 8

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract Amendment with CP&Y, Inc. dba STV Engineering for Additional Engineering Services Related to Cedar Creek Lake Pump Station Chemical Building Structural Improvements**

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract amendment **in an amount not-to-exceed $320,315** with CP&Y, Inc. dba STV Engineering for additional engineering services for the design of chemical building structural improvements at the Cedar Creek Lake Pump Station. The current contract value is $5,346,528. The total amount of this amendment brings the revised contract value to $5,666,843.

DISCUSSION:

In August of 2024, the District awarded an engineering design services contract for the replacement of approximately 8.6 miles of Cedar Creek pipeline from the Trinity River to the Cedar Creek Lake Pump Station. The pipeline is at the end of its useful life and at risk of failure. This contract also includes replacing discharge header piping, adding a new sample analyzer building, and relocating the existing sodium hydroxide injection line and valving at the Cedar Creek Lake Pump Station.

Making structural improvements to the chemical buildings is crucial for several reasons. First, on the existing Cedar Creek pipeline, there is no longer a need to control for biofilm, which are organisms that adhere to the interior surface of the pipeline, making pumping more expensive. Second, the risk of zebra mussels infestation of Cedar Creek Lake is only moderate. Third, transitioning away from the chlorine gas system will reduce danger to staff. Therefore, the existing system that feeds chlorine and ammonia is no longer needed. Additionally, relocating the existing sodium hydroxide pump equipment and adding a secondary dosing location will further enhance operational capability, ensuring more efficient and safer handling of chemicals. Collectively, these improvements requiring structural improvements to the chemical buildings will contribute to a safer, more efficient, and environmentally friendly operation.

Given that the existing contract involves construction in several parts of the lake pump station adjacent to these areas or related to the chemical feed system, staff recommend incorporating this work into the project's scope.

CP&Y, Inc. dba STV Infrastructure has subcontracted portions of the contract to diverse businesses, resulting in an overall diverse business participation commitment of 21.4% for the revised contract including this amendment.

These engineering services will take place over the next eighteen months with construction planned to begin in the fall of 2026. Attached is the scope of services to be provided by CP&Y, Inc. dba STV Engineering for this amendment.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

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Fort Worth, TX 76102
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stvinc.com

April 30, 2025

To: Courtney Jalbert, Tarrant Regional Water District

Re: Contract No. 24-087, Cedar Creek Section IV Pipeline Replacement

Amendment No. 1 –CC1 Chemical Building Structural Improvements-REV1

Background

TRWD has requested STV to provide a scope and fee to add the following services to the existing Cedar Creek Section IV Replacement contract. The additional scope of work will include the following objectives:

Convert the existing chlorine feed room at the Cedar Creek Lake Pump Station into a caustic feed room. The anticipated scope of work includes:

A. Review the existing roof structure of the chlorine feed building and provide options to provide a gabled roof with standing seam metal built on top of the existing flat concrete roof or to remove the existing flat concrete roof and install the metal roof.
B. Demolish and remove offsite the existing chlorine storage tank and related appurtenances.
C. Replace the existing roof structure and roofing of the chlorine feed building. Options to be considered will be standing seam metal roofing on top of the existing flat concrete roof or removal of the existing concrete roof and replacement with a standing seam metal roof..
D. Provide required plans, sections, and details to show modifications to the building including remove/replace of the roof system, cut exterior wall for 8 foot tall electrically operated overhead door with card reader access, and any miscellaneous items inside the chlorine feed building.
E. Design a new caustic feed pump area within the building that includes a containment curb and coatings within the containment area.
F. Design a new high head pumping system for caustic feed which will be used to inject caustic into the pipeline header piping.
G. Provide demolition drawings and specifications for the caustic scrubber, the caustic feed room, and the aqua ammonia tank and appurtenances. Review the caustic scrubber concrete containment and determine if should be retained or demolished.

Proposed Scope

Task 1: Project Management Services

1. Share, manage, and store all project related documents on TRWD's project portal site.
2. Collaborate with design team: TRWD and the Construction Manager (who is yet to be determined).

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3. Provide management services consistent with the Project Management Institute (PMI) guidelines, including but not limited to:
    a. Existing Quality Assurance and Quality Control (QA/QC) plan for the CC1 Section IV Replacement project will be utilized.
    b. Existing Project Schedule for the CC1 Section IV Replacement project will be modified to include this additional work.
    c. Existing Cash Flow plan for the CC1 Section IV Replacement project will be modified to include this additional work.
    d. Existing Progress Reports will be updated to include the activities for this work.
    e. Hold meetings as needed to interact with TRWD and other consultants. At a minimum hold a kickoff meeting and a meeting with TRWD operators regarding design. Design review meetings for each submittal, monthly meetings, consultant coordination meetings will be included with the existing meetings under the base contract. Issue agendas at least two business days in advance of the meeting. Take notes, review action items, and issue minutes and an action item log after each meeting.
    f. Prepare and maintain an Opinion of Probable Construction Costs (OPCC). Prepare a conceptual OPCC during the scoping phase. Update the OPCC at each design milestone, and at other times that are appropriate during design, with corresponding quantities, prices, and contingencies.

Task 2: Preliminary Design Review

1. Review prior design plans to confirm site conditions.
2. Visit sites, review data, and conduct interviews with District personnel.
3. Coordinate normal and contingency operational requirements with TRWD.
4. Determine design requirements for individual systems and coordinate with TRWD.
5. Identify any necessary permit requirements for disposal of excess chemical in existing tanks or any special inspections required for building codes.
6. Coordinate SCADA and physical security, communication, fire suppression and alarming, and other technology requirements with TRWD.
7. Identify utility relocations, grading, and retaining walls that may be required for the project.
8. Identify an approach to the demolition, disposal, or salvage of existing equipment that will no longer be needed or used after the project is complete.
9. Prepare a preliminary design technical memorandum.

Task 3: Permitting Support

1. Coordinate with TRWD to determine permit requirements for the project and summarize those requirements in the preliminary design technical memorandum. If permitting support is needed, coordinate with outside entities at TRWD's request to obtain permits for the project as documented in the memorandum.

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Task 4: Final Design Documents

1. Prepare and submit 75% drawings for the chemical/structural modifications. These will be submitted with the 90% drawings for the base contract.
2. Prepare 100% drawings that incorporate TRWD's comments on the 75% submittal. Also include the 100% Specifications and the proposed Bid Form. These will be submitted with the 100% drawings for the base contract.
3. Prepare an Issued for Bid submittal that incorporates TRWD's comments on the 100% submittal. These will be submitted with the Issue for Bid submittal for the base contract.

Task 5: Procurement Phase Services

1. Assist TRWD in answering questions and, as necessary, issue addenda to clarify the design documents.
2. Prepare a "Conformed" submittal that incorporates the changes made during the procurement phase.

Assumptions:

- TRWD will provide 3D laser scanning as needed to augment existing information for the chlorine building, ammonia feed building, and the caustic building.

Not Included

- Construction services will be negotiated at a later date.

Proposed Fee

Resources expected to complete the scope of work for Amendment No. 1 are summarized in the table below, with detail shown on the attached fee breakdown. We anticipate sub-contracting the HVAC work to AACE. To complete the work, STV respectfully requests the authorization of a Contract Amendment in the amount of $320,315. If approved, this will put our diverse business participation percentage at 21.43%.

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Amendment #1 CC1 Chemical Building Structural Improvements	Proposed Fee
CC1 Chemical Building Structural Improvements	
STV	$286,562
AACE (HVAC)	$33,753
Requested Contract Amendment No. 1	**$320,315**

Proposed Schedule

The design plans for the CC1 Chemical Building Structural Improvements for Amendment No. 1 will be accelerated to coincide with 90% design and 100% design completion of the Cedar Creek Section IV Pipeline Replacement Project.

Respectfully submitted,

Beth Kochur, PE
Project Manager

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 9

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract Amendment with CDM Smith for Engineering Design and Bidding Services for Richland-Chambers Lake and Cedar Creek Lake Pump Stations Electrical Buildings and Equipment**

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract amendment **in an amount not-to-exceed $295,390** with CDM Smith for engineering design of six electro-hydraulic actuators at the Cedar Creek Lake Pump Station and to relocate Input/Output (I/O) points for the existing Alerton cooling controls system to the Programmable Logic Controller (PLC) system being upgraded at the Richland-Chambers and Cedar Creek Lake Pump Stations. The current contract value is $5,947,925. The total amount of this amendment brings the revised contract value to $6,243,315.

DISCUSSION:

In June 2024, the District awarded CDM Smith a professional services contract to design new electrical rooms for the Cedar Creek Reservoir and Richland-Chambers Reservoir pump stations. The primary purpose of the project is to improve the safety and reliability of the Richland-Chambers and Cedar Creek Lake Pump Station electrical systems.

This amendment will add the replacement of six pump control valve actuators at the Cedar Creek Lake Pump Station with electro-hydraulic actuators. These types of actuators have been installed in recent years at several of the District's pump stations. These actuators will replace the existing centralized hydraulic oil accumulator system, which is susceptible to a potential single point of failure resulting in interrupted pumping operations. These individual hydraulic actuators remove that risk, allowing for continued water supply pumping even if one of the units fails.

Additionally, this amendment will provide a design to relocate Input/Output (I/O) points for the existing Alerton pump motor bearing cooling controls system to the Programmable Logic Controllers (PLC) system being upgraded at the two lake pump stations. The existing Alerton system currently controls and monitors building mechanical equipment and process cooling water system. TRWD District staff have the in-house expertise to modify pumping controls logic, and by adding the required motor bearing cooling controls to that same programmable logic platform, quick and effective responses to pump motor and controls issues can be addressed in a reliable manner to minimize downtime of water

supply pumping. Thus, for reliability and consistency reasons, all of the existing Alerton cooling controls input and outputs associated with the pump motor cooling system should be monitored and controlled by the same system as the pumping and associated process equipment.

The scope of work includes all engineering services associated with design, bidding, and equipment procurement phases. The scope and fee that was successfully negotiated with CDM Smith is attached. CDM Smith is not a prime certified diverse business but has subcontracted portions of this contract to certified diverse businesses, resulting in diverse business participation commitment of 50%.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

Amendment 1
Exhibit A
Scope of Work and Fee for
Richland Chambers Lake (RC1) and Cedar Creek Lake (CC1) Pump Stations Electrical Buildings and Equipment
Design and Procurement Services
RC1-CC1 Alerton Modifications and PCV Actuator Replacement at CC1

Project Amendment 1 Description and Objectives

A part of the Project, Tarrant Regional Water District (Owner) is requesting added scope to relocate Input/Output (I/O) points for the existing Alerton HVAC control system to the RC1/CC1 PLC system being upgraded under the Project. The existing Alerton system currently controls and monitors building mechanical equipment and process cooling water system. For reliability and consistency reasons, TRWD wishes to have all of the existing Alerton I/O points monitored and controlled by the SCADA PLC system similar to the pumping and other process equipment. This will be accomplished by converting the existing Alerton cabinets into termination cabinets. There will be no change to wiring between the field devices and existing Alerton cabinets.

Additionally, Owner is requesting added scope to replace the existing six pump control valves (PCV) at CC1 with Trident or Rexa actuators (similar to JCC1, JB3, and RC1) and demolish/abandon the existing accumulator and hydraulic piping to the actuators. Pump control valve instruments will remain for use with the new actuators. New control valve actuator PLCs will be provided.

Scope of Work

Engineer will complete the following amended scope of work tasks 4-5 related to the Project:

- Task 4 – Final Design
- Task 5 – Procurement

The amended scope of work is as follows:

Task 4 Final Design

Subtask 4.1 Basis of Design Report (BODR)

Engineer will incorporate the changes related to the amended scope into the basis of design report (BODR).

Subtask 4.1 Added Work Products:

- Inclusion of amended scope in original scope work products.

Subtask 4.2 (Not Applicable)

Subtask 4.3 (Construction Contract Documents)

Engineer will prepare added design drawings and specifications related to the amended scope to depict required construction work for the following design discipline areas:

RC1-CC1 Alerton Modifications

- Electrical:
  - Riser Diagram
  - Electrical Plan
- Instrumentation and Controls (I&C):
  - System Architecture
  - I/O List
  - Control Narrative

CC1 PCV Replacement

Mechanical:

- Demolition Plan
- Mechanical Plan
- Hydraulic Actuator Specification

- Electrical:
  - Demolition Plan
  - Power & Instrumentation Plan
  - Interface Diagram
  - Riser Diagram
  - Panelboard Schedule
  - Ductbank Sections

- Instrumentation and Controls (I&C):
  - Updated P&IDs

Subtask 4.3 Assumptions and Exclusions:

RC1-CC1 Alerton Modifications

- New P&IDs will not be created for the existing Alerton I/O points that get re-wired to the plant PLC. The existing Alerton I/O will be included in the plant PLC I/O list issued with the design specifications.
- Alerton system control logic could potentially have some logic not documented in the existing record drawings. TRWD staff will assist CDM Smith staff in creating detailed system control narratives by helping fill in any undocumented controls via internal coordination with the vendor, operations, and its technicians.
- Existing I/O points for Alerton are wired directly from the field devices to the Alerton HVAC control cabinets. This wiring will not be changed, and will stay in place. There will be no re-wiring of I/O points directly from the field devices to the plant PLC/RIO.

- CDM Smith will rely on record drawings and documentations provided by TRWD to determine I/O list and control narratives.
- CDM Smith will not be verifying exact field wiring for existing devices.
- Alerton panel modifications will be described design notes. Detailed panel modification drawings will not be provided.

CC1 PCV Replacement

- Existing valve and actuator shop drawings will be made available.
- Existing hydraulic control schematic and description will be made available.
- TRWD "master" actuator specification is available and up to date.
- Performance specification will analyze two manufacturers: Trident and Rexa.
- Flow and pressure operating conditions for valve will be made available.
- Drawings will be developed in 2D AutoCAD.
- Sequencing of work to be conveyed either as notes on a drawing or in a specification; no separate sequencing drawings are anticipated to be needed.
- Actuator support will be either standard structural detail or included in performance specification.

Subtask 4.3 Added Deliverables and Work Products:

- Inclusion of amended scope in original scope deliverables and work products.

Task 5 Procurement

Develop technical addenda as necessary during the bid period in response to bidder query. Incorporate addenda items into the conformed contract document set.

Task 5 Work Products:

- Inclusion of amended scope in original scope deliverables and work products.

Fee

Compensation by the Owner to the Engineer for Basic Services described in this Exhibit A shall be on a not-to-exceed basis (the basis of not-to-exceed pricing is detailed in the Agreement).

The total not-to-exceed amount for Basic Services authorized is $295,390, with per the following task breakdown.

Work Task – Basic Services	Cost
Task 4 Final Design	**$284,715**
Task 5 Procurement	**$10,675**
Total Basic Services	**$295,390**

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 10

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract Amendment with Schnabel Engineering, LLC for the Lake Bridgeport Dam Piezometer Project**

FUNDING: Fiscal Year 2025 Revenue Fund Budget

RECOMMENDATION:

Management recommends approval of a contract amendment **in an amount not-to-exceed $17,446.00** with Schnabel Engineering, LLC for additional services to replace piezometer concrete surface pads. The current contract value is $142,021.25. The total amount of this amendment brings the revised contract value to $159,467.25.

DISCUSSION:

Schnabel Engineering, LLC performed piezometer installation in the fall of 2024 at the Lake Bridgeport dam. Piezometers make it possible to monitor subsurface water depth, which helps us monitor dam safety. This work included the installation of four bollards within the concrete pads but they were not extended into the ground surface and were not filled with concrete. Recently a bollard was struck with a mower causing the bollard to dislodge from the surface pad and chip off the corner of the concrete pad. This event demonstrated that the bollards inadequately protected the concrete pads and piezometers as intended.

This project involves the replacement of piezometer concrete surface pads at Lake Bridgeport Dam. Schnabel Engineering, LLC will replace three piezometer surface pads installed in 2024 and two older piezometer surface pads. The existing concrete pads will be removed, and new pads will be installed with bollards extended 18 inches below the pad and concreted in place. Each piezometer will receive two bollards, flexible conduit, fence post, and a flush mount well cover. Schnabel will provide a full-time representative to observe the installation of the replacement pads and will revise the Geotechnical Report with the updated details.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

Schnabel ENGINEERING

T 737.236.5647 / F 737.220.3200
12301 Research Blvd., Bldg. 4, Suite 150 / Austin, TX 78759 schnabel-eng.com

April 30, 2025

Ms. Dorota Koterba, P.E.
Tarrant Regional Water District
800 E Northside Drive
Fort Worth, TX 76102

Subject: **Proposal for Professional Services Agreement 24-117 Amendment No.3**
Lake Bridgeport Dam Piezometer Project – Concrete Piezometer Pad Replacement
Wise County, Texas (Schnabel Reference 24220010.000)

Dear Ms. Koterba:

SCHNABEL ENGINEERING, LLC (**SCHNABEL**) is pleased to submit this proposal for a contract amendment to Professional Services Agreement 24-117 between Schnabel and the Tarrant Regional Water District (TRWD). This proposal has been prepared in response to your email request for replace piezometer concrete surface pads dated April15, 2025 wherein a detail was provided for the new surface pad designs.

1.0 OBJECTIVE AND SCOPE OF SERVICES

Lake Bridgeport Dam is owned and operated by the Tarrant Regional Water District (TRWD) and is located on the West Fork of the Trinity River in Wise County, approximately four miles west of Bridgeport, Texas. The dam was constructed in 1930s as a municipal water supply and flood control dam. The reservoir has a normal pool elevation of 836 feet. The dam consists of a main embankment section, the Saddle Gap Levee, the Berkshire Levee, a gated service spillway, an outlet works, and a vegetated earthen emergency spillway.

Schnabel performed piezometer installations in Fall of 2024 which included installation of three new open standpipes with nested vibrating wire piezometers and 4'x4' concrete surface pads with flush mounted well covers. Four bollards were installed within the concrete of the surface pads but were not extended into the ground surface and were not filled with concrete. While TRWD was recently mowing the site, a bollard was struck with the mower causing the bollard to dislodge from the surface pad and chip off the corner of the concrete pad. This event demonstrated that the bollards inadequately protected the concrete pads and piezometers as intended. Therefore, TRWD provided a design of a new concrete pad that is included as Attachment 1 for replacement of the three piezometer surface pads installed in 2024 and also replacement of the two existing piezometer surface pads.

Three of the surface pads are located along the embankment crest and two of the surface pads are located along the downstream toe of the dam as shown in the Piezometer Location Plan included as Attachment 2. The existing concrete will be removed by our subcontractor using a breaker tool attached to a skid steer. The subcontractor will then utilize a 12” auger attachment to drill a 12” diameter×18” deep hole into the ground to install the new bollards. The new bollards will be extended 18” below the pad and concreted in-place. Each piezometer will receive two (2) bollards in accordance with the detail provided by TRWD. A 1” diameter flexible; seal proof, liquid-tight, flexible non-metallic conduit - Type B shall be used and extended a minimum 6 feet above the concrete pad. A 2” diameter x 10 ft high galvanized fence post will be installed adjacent to the flexible conduit with a minimum of 18 inches extending below the pad. A new 4’ wide x5’ long x6” thick concrete pad will be installed embedding the bollards, flexible conduit, fence post, and a flush mount well cover.

Schnabel will provide a full time representative to observe the installation of the replacement pads and will revise our Geotechnical Report dated January 20, 2025 with the updated details.

2.0 ASSUMPTIONS

We have made the following assumptions during the development of our proposal:

- We assume that TRWD will provide rights of entry (ROE) and access to the piezometer locations.
- We assume that conditions will be favorable to perform the work required. However, progress will be dependent upon weather and ground conditions, or other factors beyond our control.
- Some damage to the ground surface, trees, and bushes may result from the operations. We will attempt to limit any such damage, but no restoration is included.
- Auger cuttings are to be collected by the subcontractor and disposed of at a location onsite designated by TRWD.
- We assume no site-specific training and/or special training is required by TRWD for the field exploration. If additional training is required, additional fees will be charged based on the specific training requirements and hours spent.
- Costs for additional professional services such as providing traffic control services or preparation of Traffic Control Plans (TCP) are not included in our proposal.
- We assume no limitations on work hours; our work will generally be performed between the hours of 7 AM and 5 PM, Monday through Friday. Weekend work or night costs are not included in this proposal.
- Locked gates will be opened by TRWD upon or prior to arrival at the site. We will coordinate our schedule with TRWD representatives as necessary.
  We assume our subcontractor will have access to a water source located within the maintenance yard to facilitate rock coring, grouting and other field activities.

3.0 SCHEDULE

We anticipate that installation of the concrete pad replacements will begin within two (2) weeks of obtaining approval of the contract amendment. We anticipate completing installation of the replacement pads within approximately three (3) days of mobilization.

The start date and performance period of our task will be dependent on items such as contract amendment date, weather, and other such factors beyond our control. In the event of a delay, we will communicate the nature and impact of the delay and provide an updated schedule as soon as possible.

4.0 LUMP SUM FEE

Our lump sum fee for the proposed services is **$18,638.00.** This fee is for the specific scope of services detailed herein and the contract amendment amount is summarized below. Services will be billed monthly as a percentage of completion of the lump sum fee.

Breakdown of Fees – Task 5

Task	Task Description	Fee
5	Replacement Concrete Piezometer Pads	$18,638.00
	Credit for remaining contract funds available	-$1,192.00
	TOTAL CONTRACT AMENDMENT REQUEST	**$17,446.00**
	Original Contract Budget	$142,021.25
	Amended Contract Budget	$159,467.25

Fees for work requested beyond the scope of services included herein will be provided at the time of the request. Subcontractor costs will be billed as part of our lump sum fee with 6 percent markup. The subcontractor costs are provided as Attachment 3. Direct expenses including travel will be billed as part of our lump sum fee.

5.0 GENERAL

We understand that TRWD will issue an amendment to our existing Professional Services Agreement for these services and that this proposal will be incorporated therein. The Professional Services Agreement between TRWD and Schnabel has outlined invoicing and payment procedures and other terms and conditions.

We appreciate the opportunity to submit our proposal for these services and look forward to working with you on this project. Please contact us if you have any questions regarding this proposal.

Sincerely,

SCHNABEL ENGINEERING, LLC

Victoria Webber, PE
Project Manager

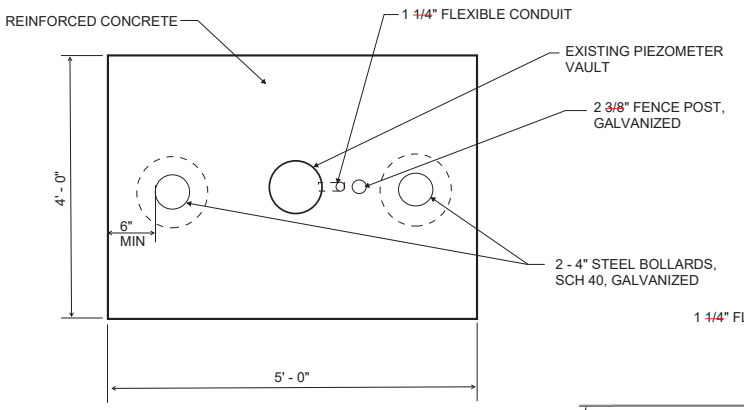
Jeremy R. Young, PE
Principal

VAW:JRY

Attachments:

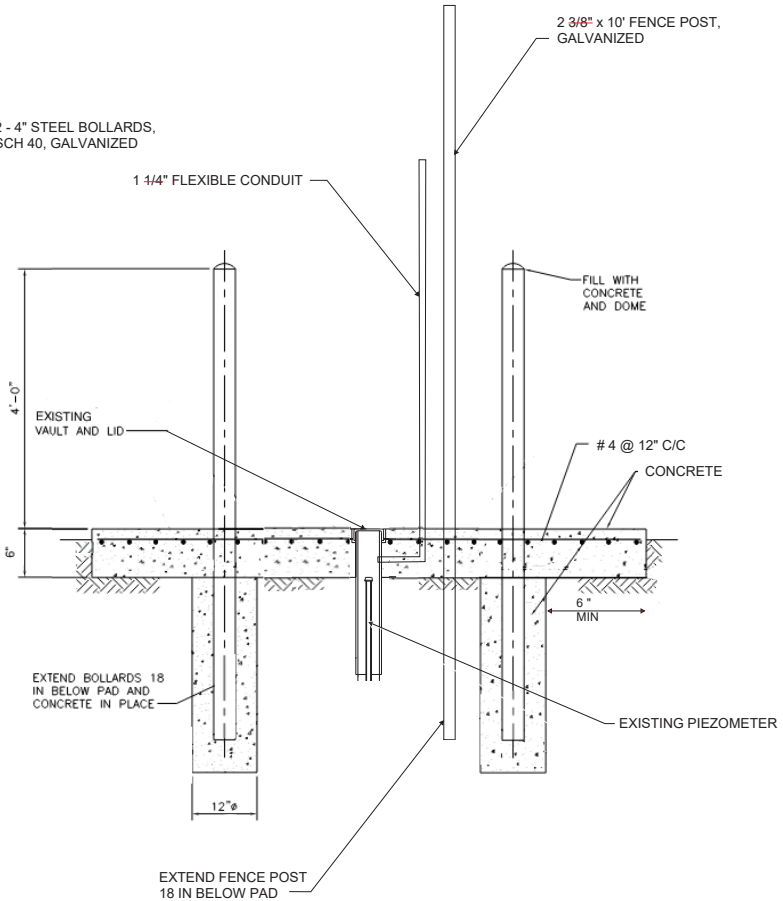
(1) Piezometer Concrete Pad Detail
(2) Piezometer Location Plan
(3) Subcontractor's Cost Proposal

ATTACHMENT 1

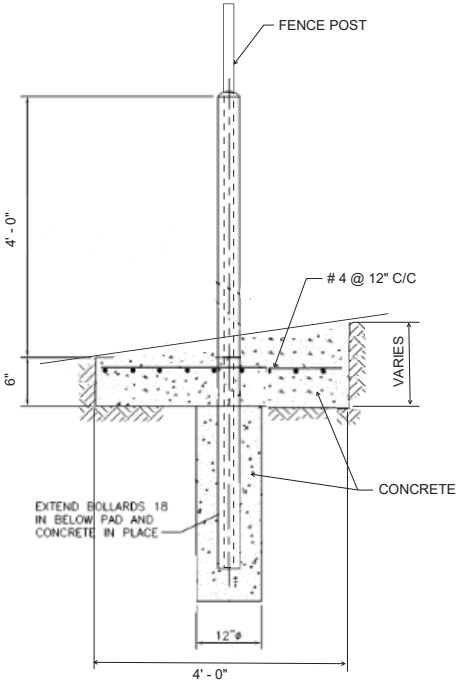


1 PIEZOMETER SURFACE COMPLETION PLAN
NOT TO SCALE

Canary Systems recommends 2" fence post and 1" flexible conduit.



2 SURFACE PAD INSTALLATION
NOT TO SCALE



3 SLOPE SURFACE PAD INSTALLATION
NOT TO SCALE

NOTES:

1. REMOVE FIVE EXISTING CONCERETE PADS. THREE 4'X 4' AND TWO 2'X2'.

2. MAINTAIN AND PROTECT EXISTING PIEZOMETERS FROM DAMAGE.

3. FLEXIBLE CONDUIT TO EXTEND MIN 6 FEET ABOVE PAD. SEALPROOF LIQUID-TIGHT FLEXIBLE NONMETALIC CONDUIT -TYPE B CAN BE USED.

EXAMPLE OF EXISTING 4'X4' PAD TO BE REMOVED.

EXAMPLE OF EXISTING 2'X2' PAD TO BE REMOVED.

SHEET

SEQ.

ATTACHMENT 2

Location	Top of Concrete	Top of Casing	Natural Ground	Northing	Easting
Existing North Piezometer	868.83	868.70	868.63	7128317.71	2173048.70
Existing South Piezometer	872.00	871.63	871.85	7127496.53	2173451.22
BP 07+90C	872.64	872.43	872.13	7128242.83	2173062.83
BP 09+89T	780.88	780.50	780.45	7128200.31	2173412.77
BP 15+15T	787.28	787.09	786.86	7127699.77	2173632.89

Legend

- New Piezometer
- Existing Piezometer

Source: Maxar, Esri, HERE, Garmin, NGA, USGS, NPS, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS
Spatial Reference Texas Coordinate System of 1983, North Central Zone (4202), North American Datum 1983 (2011).

0 75 150 300 US Feet

Schnabel ENGINEERING

BRIDGEPORT PIEZOMETER PROJECT
TARRANT REGIONAL WATER DISTRICT
BRIDGEPORT, TEXAS
PROJECT NO. 24220010.00

PIEZOMETER LOCATION PLAN - AERIAL
FIGURE 3

kzednik
11/14/2024 \\EgnyteDrive\Egnyte Projects\Austin\2024\24220010_TRWD_Bridgeport Piezometer Project\03-SEProducts\07_GIS\02_Maps\Piezometer Location Plan.aprx

ATTACHMENT 3

April 29, 2025

Victoria Webber
Schnabel Engineering
12301 Research Blvd, Bldg. 4, Suite 150
Austin, TX 78759

RE: Schnabel Engineering - Pad Replacements

Ms. Victoria Webber

Talon will mobilize to your site located near Lake Bridgeport, Texas for the removal and new installation of five (5) well pads. The new pads will be constructed as per the specifications provided and discussed with the Schnabel. Talon will utilize a breaker attachment on a skid steer to remove the existing concrete pads. Once all of the concrete has been removed, Talon will utilize an 12" auger attachment to make an 12' x 18" hole to install the new bollards. Each well will receive two (2) bollards as per specifications provided. This is an estimate only and actual footage may vary depending on actual depths and sub -surface conditions.

Respectfully,

TJ Haley

TJ Haley
Drilling Operations Manager
Talon/LPE, Ltd.

Attachments:
Project Estimate Form
Terms & Conditions

Assumptions:
Water / Power NOT Available Onsite
Surface Asphalt or Concrete
Unlimited Access for Equipment
Waste Analyzed / Disposed by Others
All work will be awarded
Sample containers provided by others

This estimate is valid for 30 days

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 11

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract Amendment with Freese and Nichols, Inc for Engineering Services for Eagle Mountain Dam - Original Services Spillway Evaluation (Phase II)**

FUNDING: FY2025 General Fund Budget - $200,000
FY2026 General Fund Budget - $200,000 (proposed)

RECOMMENDATION:

Management recommends approval of a contract amendment **in an amount not-to-exceed $276,000** with Freese and Nichols, Inc. (FNI) for additional professional services required to complete the Eagle Mountain Dam - Original Services Spillway Evaluation (Phase II). The current contract value is $174,687. The total amount of this amendment brings the revised contract value to $450,687.

DISCUSSION:

The District constructed the Eagle Mountain Dam between 1930 and 1934, and it plays a crucial role in flood management for Fort Worth. In the 1960s, the original spillway's capacity was deemed insufficient due to Fort Worth's growth. To address this, a new side channel spillway and an emergency spillway were constructed. These additions have significantly improved flood management capabilities.

Currently, the original spillway gates are kept open, allowing water to pass over the crest when water is at conservation level. These gates haven't been used for flood events since the 1960s. With the addition of the side channel spillway and an emergency spillway, the operating policy was updated to close the original spillway gates when the lake reaches 669.7 ft-msl, limiting discharge to 55,000 cfs to protect downstream levees. Above 676.0 ft-msl, the gates are reopened to pass the Probable Maximum Flood (PMF).

In April 2023, the District awarded FNI a contract for the Eagle Mountain Dam - Original Services Spillway Evaluation (Phase I). The structural review concluded that the District should not use the current gates to limit discharges due to the concern of not being able to reopen the gates if additional capacity is required to pass an extreme flood. In June 2024, the District awarded FNI Phase II of the project, wherein FNI compared repairing the spillway gates to be fully functional against removing the spillway gates altogether. It was determined that the side channel spillway is a more reliable option for limiting discharge during large floods and concluded that removing the old service spillway gates was a preferred option to restoring their full functionality.

The goal of this amendment is to develop a new gate operating policy to establish guidelines for how and when to limit discharges from the spillway system at Eagle Mountain Dam. This policy will consider the planned removal of gates on the original service spillway, updated capacity information for the Fort Worth floodway levee system, and the availability of real-time data accessible to TRWD.

This initiative aligns with the District's Strategic Plan Strategy #2, "Creating flood mitigation strategies," by revising the guidelines for flood operations to reflect the current system capabilities. The project is scheduled for a duration of 10 months and is anticipated to be completed in the summer of 2026. Upon completion, this work will provide District staff with updated instructions for operating the spillway during extreme flood events, underscoring the importance of its timely execution.

This item was reviewed by the Construction and Operations Committee on May 15, 2025.

Submitted By:

Zachary Huff
Water Resources Engineering Director

EXHIBIT A-1
TARRANT REGIONAL WATER DISTRICT
UPDATED EAGLE MOUNTAIN SPILLWAY OPERATING POLICY

PROJECT UNDERSTANDING

The purpose of this amendment is to establish a new gate operating policy for Eagle Mountain Dam, as recommended in Eagle Mountain Dam – Original Service Spillway Evaluation (Phase I), taking into account the planned removal of the gates on the original service spillway, updated information regarding the capacity of the West Fork system, and real-time data available to TRWD, such as downstream reservoir and river levels, and estimated inflows into Eagle Mountain Dam. The capacity of the existing West Fork levees will be evaluated along with possible relatively minor improvements to the West Fork levees that would increase the capacity of the levee system. Both existing conditions and the future conditions of the Central City bypass project will be evaluated.
This scope of work includes the following tasks:

Task 1 – Project Management and Meetings
Task 2 – Downstream Capacity Analysis
Task 3 – Hydrologic Modeling
Task 4 – Gate Operating Policy

BASIC SERVICES: FNI shall render the following professional services in connection with the development of the Project:

Task 1 – PM and Meetings

1) Project Management - FNI will provide Project Management services including project coordination, routine communications with TRWD, and monthly status reporting.

2) Milestone Meetings - FNI will conduct up to a total of five (5) in person team meetings with TRWD staff at key milestones. These meetings are anticipated as follows:
    a. Kickoff and data collection (1)
    b. Review of existing operating policy and real-time data (1)
    c. Development of new operating policy (2)
    d. One (1) additional team meeting as needed

3) Bi-weekly check-in meetings by conference call.

Task 2 – Downstream Capacity Analysis

1) Perform data collection for the downstream levee system, Lake Worth Dam, and the Central City bypass project. Data collection will include existing hydrologic and hydraulic models, as-built plans, streamgage data, flood-frequency analyses, GIS data, topographic mapping, required freeboard values, and levee accreditation status. Collect publicly available data for flood impacts upstream and downstream of Eagle Mountain Dam including structures, critical infrastructure, and transportation infrastructure (roads and bridges, railways). Obtain structure impacts and finished floor elevations that TRWD has already obtained around Eagle Mountain and Lake Worth. No new survey is anticipated.

2) Using the recently developed and updated UFMA model, develop an estimate of the flow capacity of the West Fork of the Trinity levee system with multiple options for freeboard.
    a. Include consideration of the current proposed changes to the levee to return the levee to at least the original top elevation.
    b. Review hydrologic and hydraulic calibration for West Fork gages 08045550, 08048000, and 08048543. Confirm initial loss, constant loss, and manning's n value selections.
    c. Perform a sensitivity analysis assuming a range of simultaneous flows on the Clear Fork that might impact the West Fork flow capacity.
    d. Evaluate the effect of the Central City bypass project.
    e. Discuss with the District possible freeboard policies for the West Fork Levee system. Identify critical low spots on the levees that will be the first to overtop and will control the capacity of the levee. Develop connections in elevation between existing gauges that will reflect potential overtopping of the critical locations.

   If any critical low spots could be improved with a relatively minor effort to provide a significant improvement in the capacity of the levee system, identify these areas for possible future District efforts. These will not be included in the operations analysis.

Task 3 – Hydrologic Modeling

1) Perform data collection to obtain existing hydrologic analysis for Eagle Mountain Dam, including frequency flood and PMF.

2) Use existing hydrologic frequency flood models and update routing through Eagle Mountain Dam using the original spillway rating curve updated in the 2024 FNI study of the original spillway. Adapt models as necessary to be used for modeling of the gate operations at Eagle Mountain Dam.

3) Develop approximate probabilities of the identified key flow levels on the Clear Fork and the West Fork for comparison and general background information for comparative review.

Task 4 – Gate Operating Policy

1) Review the existing gate operation policy for the Eagle Mountain spillway system and identify elements that should be adjusted to reflect the recent recommendation to remove the gates from the original spillway from service. This will include the use of the existing large gate in the side channel spillway conduit as appropriate. Lake Bridgeport will be assumed to be operated per policy with no changes.

2) Identify the available real-time data available to TRWD that could be used for the gate operating policy. At each location, identify what stage and/or discharge would correspond to a risk of flooding the levees downstream.
    a. Lake Worth reservoir elevation
    b. Flows on the West Fork and Clear Fork at identified location(s)
    c. Estimated inflow levels at Eagle Mountain and Lake Worth

3) Develop a strategy to balance damages between Eagle Mountain and Lake Worth at frequent flood levels using available FFE data, state flood planning structures/critical facilities data, and standard depth-damage curves. Develop a curve relating the number of homes vs. lake elevation at both lakes and develop guidelines on releases from Eagle Mountain that might facilitate gate operating decisions at Eagle Mountain.

4) Develop recommended updates to the policy that utilize available real time data and the identified capacity of the west fork system with the primary goal of delaying both the overtopping of the West Fork levees and the failure of the fuse plug in a balanced fashion during extreme floods utilizing the available real time data.

5) Review multiple scenarios of severe flooding up to and including the PMF to test and develop the policy. Determine the impact of the policy on the flooding levels at Eagle Mountain, Lake Worth, and on the West Fork. Include adapted versions of historical events in addition to percentages of the PMF to utilize a range of possible flood scenarios for testing. Evaluate any identified flood scenarios which could benefit from a capability of throttling the original spillway.

6) Evaluate the current District HEC-Res-Sim model gate operation rules and provide recommendations including updates to reflect the proposed policy.

7) Prepare a draft report describing the review, assumptions, and conclusions, with final recommendations for a revised gate policy.

SPECIAL SERVICES

1. Evaluate existing rating curves:
    a. Side Channel Spillway using CFD model Flow 3D
    b. 3-C 48” Gate valve at fully open and partial openings
    c. 4-D Multiple Orifice Valve (MOV) fully open and partial openings
2. Update the HEC-Res-Sim model to include the revised gate operating policy.
3. To determine flows and elevations in each annual exceedance probability storm, update WHA elliptical storm temporal distributions for one West Fork and one Clear Fork storm centering, for eight recurrence intervals each, and simulate in Hydrologic and Hydraulic models.

Fee Summary

Services will be provided on an hourly, not-to-exceed basis. Proposed hourly rates are provided in Attachment CO.

Task	Fee
Basic Services	
Task 1 – Project Management	$21,300
Task 2 – Downstream Capacity Analysis	$70,100
Task 3 – Hydrologic Modeling	$24,400
Task 4 – Gate Operating Policy	$83,700
Special Services	
Evaluate Existing Rating Curves	
a) Side Channel Spillway (CFD)	$45,600
b) 3-C 48" Gate Valve at fully open and partial openings	$10,800
c) 4-D Multiple Orifice Valve (MOV) fully open and partial	
Update the HEC-ResSim model to include the revised gate operating policy	$9,800
Determine flows and elevations in each annual exceedance probability storm by updating WHA model elliptical storm temporal distributions for one West Fork and one Clear Fork storm centering, for eight recurrence intervals each.	$10,300
Basic Services Total	**$199,500**
Special Services Total	**$76,500**
Amendment Total	**$276,000**
Labor Multiplier	**3.25**

Estimated Schedule

FNI estimates an approximate project schedule as follows (assumes written Notice to Proceed received by June 1, 2025):

Scope Items	2025							2026		
	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Task 1										
Task 2				1						
Task 3										
Task 4									2	3

Numbers listed above indicate estimated schedule for DRAFT project deliverables as follows:

1) Memorandum describing identified low spots of the West Fork levee system whose improvement would significantly increase the capacity of the system
2) DRAFT report with recommended operating policy
3) FINAL report after District comments with recommended operating policy

Following submittal of each DRAFT deliverable and receipt of District comments, FINAL deliverables will be submitted within three weeks of receipt of District comments.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 12

DATE: May 20, 2025

SUBJECT: **Consider Approval of Contract with Kimley-Horn and Associates, Inc. for Trail Safety Signage and Striping Design and Construction Services**

FUNDING: Fiscal Year 2025 General Fund Budget - $200,000

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed $190,900** with Kimley-Horn and Associates, Inc. for trail safety signage and striping design and construction services. Kimley-Horn will develop preliminary comprehensive signage and striping standards for the trail system. Proposed signage will include rules and etiquette, speed, caution, hazard, yielding, and equestrian-specific signage. Proposed striping elements will include center stripe (solid and dashed), enhancements for slow/safe zones in congested areas, and edge striping near hazards.

DISCUSSION:

This project was included in the newly adopted Recreation Master Plan as a task to help improve safety along the trail system. These enhancements will take place across the Fort Worth Floodway trail system as well as at Marine Creek Lake.

Request for Statement of Qualifications was solicited per statute (Texas Government Code Chapter 2254) and 2 submittals were received. The evaluation team determined the most qualified vendor to complete the project is Kimley-Horn and Associates, Inc. The scope and fee that were successfully negotiated with Kimley Horn and Associates, Inc. are attached.

Kimley-Horn is not a certified diverse business. There are no other subcontracting opportunities. The design process is anticipated to take one year to complete with construction commencing in 2026.

This item was reviewed by the Recreation Committee on May 15, 2025.

Submitted By:

Darrell Beason
Chief Operations Officer

List of Submitting Firms

RFSOQ No. 25-063
Consulting Services for Trail Signage and Striping

Due Date and Time:	March 10, 2025 at 02:00 p.m. CT

Name of Firm
Kimley- Horn
Terra Design Group

Exhibit "A"

CONSULTANT'S SERVICES

Tarrant Regional Water District ("TRWD") is requesting that Kimley-Horn and Associates, Inc. ("Consultant") to provide professional design services for Trail Signage and Striping.

The project will consist of the following tasks:

- TASK 1 – Trail Inventory
- TASK 2 – Signage and Striping Standards
- TASK 3 – Construction Documents
- TASK 4 – Project Meetings and Coordination
- TASK 5 – Bidding
- TASK 6 – Construction Phase Services
- TASK 7 – Additional Services

Task 1 Trail Inventory

The Consultant will inventory trails depicted in Figure 1. The inventory will consist of width measurements recorded in feet/inches. This task will include review of data collected by TRWD in traffic count study.

The Consultant will provide the following deliverables as part of this task:

- Field work data in shapefile and geodatabase formats, compatible with TRWD's ESRI-based geospatial system
- Individual photos in .jpg format

This task excludes the assessment of trail conditions and ADA compliance of the trails. It is understood that the trails are grandfathered and are deemed acceptable without meeting ADA compliance standards.

Task 2 Signage and Striping Standards

The Consultant will develop preliminary comprehensive signage and striping standards for the trail system.

- Proposed signage, to consist of: rules and etiquette, speed, caution, hazard, yielding, and equestrian-specific signage.
- Proposed striping, to consist of: center stripe (solid and dashed), enhancements for slow/safe zones in congested areas, and edge striping near hazards.

The Consultant will utilize the following design guidelines:

- AASHTO's Guide for the Development of Bicycle Facilities
- Texas Manual on Uniform Traffic Control Devices (TMUTCD)

Following the completion of the preliminary standards, the Consultant will respond to two (2) rounds of comments. The Consultant will revise the preliminary standards based on TRWD comments and provide a final comprehensive signage and striping standards document.

Task 3 Construction Documents

The Consultant will create preliminary designs for trail pavement marking and signage plans based on inventory and conditions assessment depicted in Figure 1 and the final comprehensive signage and striping standards document. The trail pavement marking and signing plans will consist of:

- Existing marking and/or marker removal (as needed)
- Proposed signage location and details
- Proposed striping
- Opinion of Probable Construction Costs (OPCC)

Following the completion of the preliminary design, the Consultant will respond to two (2) rounds of comments. The Consultant will revise the preliminary design based on TRWD comments. The Consultant and TRWD may mutually agree to revise the list of corridors in the task. However, the Consultant is only responsible for those professional services that can be completed within the maximum contract amount specified in “Exhibit B” - Compensation.

The Consultant will provide the following deliverables as part of this task:

- 24” by 36” .pdf of preliminary plans
- 24” by 36” .pdf and .dwg of final plans
- 24” by 36” paper copies of final plans (1)
- 11” by 17” paper copies of final plans (3)
- Specification Book
- OPCC

This project will not include any pavement widening.

Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the TRWD wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. The Consultant’s services required to bring costs within any limitation established by the TRWD will be paid for as Additional Services**.**

Task 4 Meetings and Coordination

The Consultant can be available to attend design team meetings, City meetings, and/or conference calls and any other project related meetings not listed in previous task items during the design and construction phase of the project. The budget value provided for this task includes up to a total of forty (40) hours of the Consultant’s effort. If additional effort is requested, the Consultant will perform the services hourly per our standard hourly rate attached.

Task 5 Bidding

The Consultant will coordinate with TRWD and will be available to answer questions or provide additional information to the general contractors and assist in reviewing pricing and bids during the Bidding phase as requested by TRWD.

This includes reviewing material costs and responding to general contractor and subcontractor RFI's. Participation in contractor selection and/or interviews are outside of this agreement, but can be provided as an additional service upon request. Because the extent of the coordination required is unknown at this time, this scope of services is limited to forty (40) hours. If additional effort is requested, the Consultant will perform the services hourly per our standard hourly rate attached.

Task 6 Construction Phase Services

General:

- The duties and responsibilities of the Consultant are limited and described as follows:
- Consultant is TRWD's representative at the Site, and will act as directed by TRWD.
- Consultant's dealings in matters pertaining to a Contractor's work in progress shall, in general, be with the Contractor, keeping TRWD advised as necessary.
- Consultant's dealings with subcontractors shall only be through the Contractor.

Schedules:

- Review the progress schedule, schedule of shop drawing and sample submittals, and schedule of values prepared by the Contractor. Consultant will advise TRWD on schedule progress.

Liaison:

- Serve as TRWD's liaison with Contractor, working principally through Contractor's superintendent, and assist in providing information regarding the intent of the Contract Documents.
- Assist in obtaining from TRWD additional details or information, when required for proper execution of the Work.

The Consultant will provide professional construction phase services as specifically stated below:

Visits to Site and Observation of Construction. The Consultant will make visits at intervals as directed by TRWD in order to observe the progress of the Work. Such visits and observations by the Consultant are not intended to be exhaustive or to extend to every aspect of Contractor's work in progress. Observations are to be limited to landscape and hardscape review, spot checking, selective measurement, and similar methods of general observation of the Work based on the Consultant's exercise of professional judgment. Based on information obtained during such visits and such observations, the Consultant will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents, and the Consultant will keep TRWD informed of the general progress of the Work.

The purpose of the Consultant's site visits will be to enable the Consultant to better carry out the duties and responsibilities specifically assigned in this Agreement to Consultant, and to provide TRWD a greater degree of confidence that the completed Work will conform in general to the Contract Documents. the Consultant shall not, during such visits or as a result of such observations of Contractor's work in progress, supervise, direct, or have control over Contractor's work, nor shall Consultant have authority over or responsibility for the means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction selected by Contractor, for safety precautions and programs incident to Contractor's work, nor for any failure of Contractor to comply with laws and regulations applicable to Contractor's furnishing and performing the Work. Accordingly, the Consultant neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the Contract Documents.

Clarifications and Interpretations. The Consultant will respond to reasonable and appropriate Contractor requests for information and issue necessary clarifications and interpretations of the Contract Documents to TRWD as appropriate to the orderly completion of Contractor's work. Any orders authorizing variations from the Contract Documents will be made by TRWD.

Change Orders. The Consultant may recommend Change Orders to TRWD and will review and make recommendations related to Change Orders submitted or proposed by the Contractor.

Shop Drawings and Samples. The Consultant will review and approve or take other appropriate action in respect to Shop Drawings and Samples and other data which Contractor is required to submit, but only for conformance with the information given in the Contract Documents. Such review and approvals or other action will not extend to means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction or to related safety precautions and programs.

Substitutes and "or-equal." Evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by Contractor in accordance with the Contract Documents, but subject to the provisions of applicable standards of state or local government entities.

Limitation of Responsibilities. The Consultant shall not be responsible for the acts or omissions of any Contractor, or of any of their subcontractors, suppliers, or of any other individual or entity performing or furnishing the Work. The Consultant shall not have the authority or responsibility to stop the work of any Contractor.

Construction Coordination Meetings. Attendance for construction coordination meetings once Landscape Architecture services are under construction. Anticipated meetings are as follows: Pre-construction meeting, bi-weekly progress or weekly construction progress meetings. Frequency of meetings will be coordinated with and determined by TRWD project manager. For budgeting purposes, 20 progress meetings were assumed.

The budget value provided for this task includes up to a total of one hundred and twenty (120) hours of the Consultant's effort. If additional effort is requested, the Consultant will perform the services hourly per our standard hourly rate attached.

Task 7 Additional Services

The Consultant may provide additional services which cannot be identified as necessary to the project, but may be desired by the TRWD or may be discovered as necessary during the design and construction of this project are considered additional to the Scope of Services for the Contract, and can be performed on an individual basis upon written authorization from TRWD. Compensation for additional services shall be provided on the same basis as the reimbursable services unless the design effort for a specific task is identified and negotiated with TRWD based on a lump sum basis and approved by a Contract Amendment. Such services shall include:

- Survey (Topo/Boundary/ALTA/Tree/Platting)
- Perform gap analysis on current asset management software (ISO 55000). Review Kimley-Horn DRIVE software capabilities with current asset data.
- Construction Staking
- Easement Exhibits
- TDLR Review and Inspection
- Any item not specifically included in our Consultant's Services
- Any other services requested by TRWD

Exhibit "B"

COMPENSATION

Consultant will provide the Scope of Services for reimbursable tasks on a not to exceed, labor fee plus expense basis. The not to exceed total for Reimbursable Scope Items is $ 8,400. Labor fee will be billed according to the attached rate schedule, which is subject to annual adjustment. As to these tasks, direct reimbursable expenses such as express delivery services, fees, air travel, and other direct expenses will be billed at 1.10 times the cost. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by the TRWD.

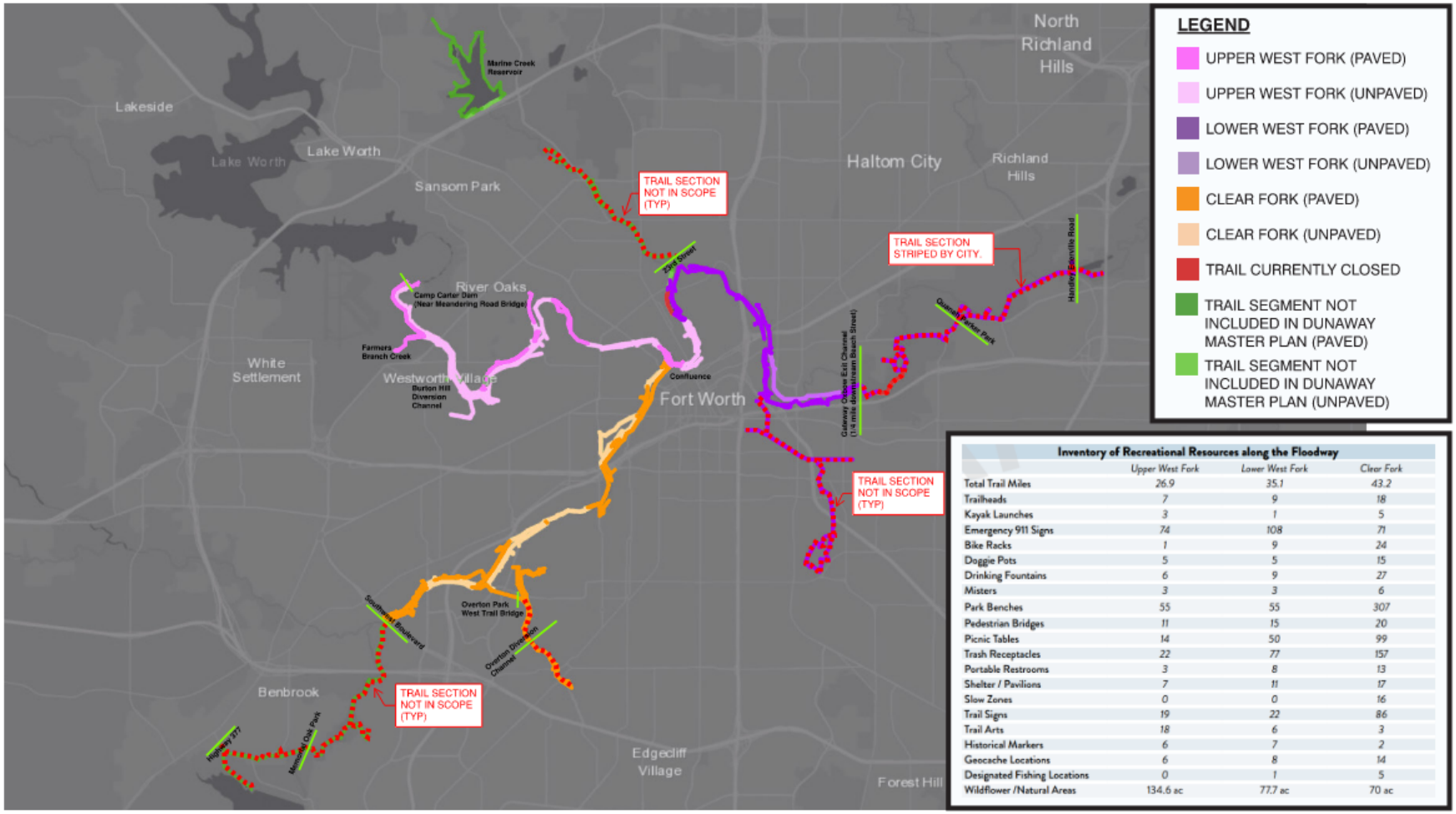
Fees and expenses will be invoiced monthly based upon actual services performed and expenses incurred as of the invoice date. Payment will be due within 30 days of receipt of the invoice.

The Consultant will not exceed this not to exceed amount, or perform the hourly services, without prior written authorization from TRWD.

Task Number	Task Name	Fee
Task 1	Trail Inventory	$34,500
Task 2	Signage and Striping Standards	$18,000
Task 3	Construction Documents	$80,000
Task 4	Meetings and Coordination	$10,000
Task 5	Bidding	$10,000
Task 6	Construction Phase Services	$30,000
Task 7	Additional Services	T.B.D.

Consultant will provide the Scope of Services for hourly tasks on a labor fee plus expense basis not to exceed $182,500, plus the Reimbursable Expenses of $8,400.

Figure 1



Inventory of Recreational Resources along the Floodway

	Upper West Fork	*Lower West Fork*	*Clear Fork*
Total Trail Miles	26.9	35.1	43.2
Trailheads	7	9	18
Kayak Launches	3	1	5
Emergency 911 Signs	74	108	71
Bike Racks	1	9	24
Doggie Pots	5	5	15
Drinking Fountains	6	9	27
Misters	3	3	6
Park Benches	55	55	307
Pedestrian Bridges	11	15	20
Picnic Tables	14	50	99
Trash Receptacles	22	77	157
Portable Restrooms	3	8	13
Shelter / Pavilions	7	11	17
Slow Zones	0	0	16
Trail Signs	19	22	86
Trail Arts	18	6	3
Historical Markers	6	7	2
Geocache Locations	6	8	14
Designated Fishing Locations	0	1	5
Wildflower /Natural Areas	134.6 ac	77.7 ac	70 ac

TRWD TRAIL INVENTORY

TRAIL MAP

Kimley»Horn

MAY 2025

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 13

DATE: May 20, 2025

SUBJECT: **Executive Session**

FUNDING: N/A

RECOMMENDATION:

Section 551.071 of the Texas Government Code, for Private Consultation with its Attorney about Pending or Contemplated Litigation or on a Matter in which the Duty of the Attorney to the Governmental Body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas Clearly Conflicts with this Chapter; and

Section 551.072 of the Texas Government Code, to Deliberate the Purchase, Exchange, Lease or Value of Real Property

DISCUSSION:

- Pending litigation
- Real property issues

Submitted By:

Stephen Tatum
General Counsel

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 14

DATE: May 20, 2025

SUBJECT: **Consider Approval of Acceptance of Donation of Permanent Easement in the Felix Mulliken Survey, Abstract No. 1045, Tarrant County, Texas**

DISCUSSION:

This agenda item is pending negotiations and is subject to review and approval by the TRWD Board of Directors.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 15

DATE: May 20, 2025

SUBJECT: **Discussion and Potential Action Regarding TRWD Participation in the Tarrant Appraisal District Board Appointment Process**

FUNDING: **N/A**

RECOMMENDATION: N/A

DISCUSSION:

The Texas Tax Code provides the ability for TRWD to participate in the process to appoint members to the board of directors of the Tarrant Appraisal District (TAD), and to participate in other TAD matters. If TRWD wishes to participate this year, the TRWD board of directors must take action to authorize the submission of a written request to the chief appraiser to participate by **June 1**.

General Summary of Participation as Provided in Statute:
Chapter 6 of the Texas Tax Code governs TRWD's ability to participate in TAD (see sections 6.03 and 6.0301, specifically). Five members of the nine-member TAD board are appointed by vote of the taxing units that "participate in the district." Such taxing units include incorporated cities, towns, school districts, junior college districts, and—if "entitled to vote"—conservation and reclamation districts like TRWD. To be entitled to vote, at least one conservation and reclamation district in the appraisal district must deliver to the chief appraiser a written request to nominate and vote on the board of directors by June 1 of each odd-numbered year. This would allow TRWD to vote on a nominee for one of the taxing unit-appointed TAD board members.

Chapter 6 also gives TRWD the ability to participate in other TAD matters (see Section 6.037). This includes the disapproval of the appraisal district budget and the disapproval of appraisal district board actions. Budgets are provided to all participating taxing units by June 15 each year and approved by the appraisal district board by September 15. If a majority of the taxing units entitled to vote on board member appointments adopt resolutions disapproving a budget, the budget does not take affect and the appraisal district has 30 days to adopt a new budget. Similarly, if a majority of taxing units entitled to vote on appraisal district board members adopt resolutions disapproving an action of the appraisal district board, other than budget adoption, and files the resolutions with 15 days of the action, the action is revoked. All conservation and reclamation districts that participate in the district are treated as one and must take the same action to exercise the vote.

General Nomination Process:
Once entitled to vote, TRWD could nominate by resolution of the board one candidate, and submit the name of the nominee to the chief appraiser by July 15. The chief appraiser would then deliver a nominating ballot to each district by August 1 containing the names of all conservation and reclamation district nominees. The TRWD board would then determine its vote on a nominee by resolution and submit it to the chief appraiser before August 15. The nominee with the most votes—and at least 10% of all votes entitled to be cast by conservation and reclamation districts—becomes the nominee of the conservation and reclamation districts in the appraisal district and is then named on the ballot with the candidates nominated by the other taxing units. TRWD would receive the ballot of all taxing unit candidates for the TAD board by October 30, after which it would, by resolution at the first or second board meeting after October 30, cast all its votes for one candidate or distribute them among candidates for any number of directorships.

Voting Entitlement Calculation:
The chief appraiser calculates the number of votes to which each conservation and reclamation district is entitled and delivers written notice to the presiding officer of its voting entitlement and right to nominate a director before July 1 of each odd-numbered year. The number of votes a taxing unit entitled to vote has is determined by dividing the total dollar amount of property taxes imposed in the district by the taxing unit for the preceding tax year by the sum of the total dollar amount of property taxes imposed in the district for that year by each taxing unit that is entitled to vote, by multiplying the quotient by 1,000, and then by rounding to the nearest whole number. That number is then multiplied by the number of directorships to be filled. A governing body may cast all its votes for one candidate or distribute them among candidates for any number of directorships.

General Nominating Process Timeline (variations to this process in statute)**:**

- **June 1**: TRWD requests to participate by June 1
- **June 15**: Chief Appraiser certifies list of all tax-imposing conservation and reclamation districts that are entitled to vote by June 15.
- **July 15**: TRWD board by resolution nominates a candidate and submits name to chief appraiser by July 15.
- **By August 1**: Chief appraiser prepares a nominating ballot with all nominees submitted by the conservation and reclamation districts, and presents the ballot to the board of each district entitled to vote.
- **By August 15**: TRWD board by resolution determines its vote on the ballot of nominees and submits to chief appraiser by August 15.
    - ❖ The nominee with the most votes becomes the nominee of the conservation and reclamation districts as long as they receive more than

10% of the votes entitled to be cast by all of the conservation and reclamation districts in the appraisal district. The conservation and reclamation district nominee is named on the ballot along with the candidates nominated by the other taxing units.

- **Before October 30**: The chief appraiser prepares ballot, listing the candidates whose names were timely submitted, and delivers copy of ballot to each taxing unit entitled to vote.

- **1st or 2nd Board meeting after October 30**: The governing body of each taxing unit entitled to cast at least 5% of the total votes must vote on its candidate or candidates by resolution and submit the vote to the chief appraiser within three days.

- **December 31**: Chief appraiser counts all of the votes, declares the five candidates who receive the largest cumulative vote totals elected.

    - ❖ The candidate receiving the most votes of the conservation and reclamation districts is considered to have received all of the votes cast by conservation and reclamation districts and the other candidates are considered not to have received any votes of the districts.

The Board previously heard a presentation of this subject at its regular meeting on March 25, 2025.

Submitted By:

Stephen Tatum
General Counsel

Next Scheduled Board Meeting

June 17, 2025 at 9:00am