

PUBLIC NOTICE OF SPECIAL MEETING
TAKE NOTICE THAT A SPECIAL MEETING OF THE
Board of Directors of Travis County Water Control and Improvement District – Point Venture
Will be held at the District Office located at:
18606 Venture Drive, Point Venture, TX 78645
In Travis County, Texas, commencing on January 9, 2025 @ 1:00 p.m.
To consider and act upon any or all of the following:

AMENDED AGENDA

1. Call to Order.
2. Roll call of Directors.
3. Pledge of Allegiance.
4. Public Comments.

This is an opportunity for members of the public to address the Board of Directors concerning any issue that is not on the agenda. The response of the Board to any comment under this heading is limited to making a statement of specific factual information in response to the inquiry, or, reciting existing policy in response to the inquiry. Any deliberation of the issues is limited to a proposal to place it on the agenda for a later meeting. Each speaker offering public comment shall be limited to 3 minutes, unless more than 10 members of the public wish to speak during this meeting. In such case, speakers offering public comment shall be limited to 1 minute each.

Note: Members of the public wishing to address the Board of Directors on specific agenda items will be required to indicate the agenda items on which they wish to speak. They will be given an opportunity to speak when the item is called and prior to consideration by the Board. Such comments shall be limited to 3 minutes per speaker for each agenda item. If more than 10 members of the public wish to speak, all speakers shall be limited to 1 minute each per item per person.

5. Rate Order.
6. Engineering Services provider qualifications.
7. Board announcements.
8. Adjourn the Meeting.

This facility is wheelchair accessible and accessible parking spaces are available. The Board of Directors reserves the right to adjourn into closed executive session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Texas Government Code Sections 551.071 (Consultation with Attorney), 551.074 (Personnel Matters), 551.072 (Deliberations about Real Property). *Travis County WCID Meetings will follow Open Meeting Rules. Be advised that a quorum of the Village of Point Venture Council may be present at these meetings.



Travis County Water
Control &
Improvement
District -
Point Venture

Attorney for the District

TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT – POINT VENTURE ORDER ESTABLISHING WATER AND WASTEWATER SERVICE RATES, CHARGES AND TAP FEES, AND ADOPTING GENERAL POLICIES AND RULES WITH RESPECT TO THE DISTRICT’S WATER, WASTEWATER AND DRAINAGE SYSTEMS

Adopted January 25, 2024 23, 2025, to be effective March 1, 2024-2025 Last Amended January 26, 2023 25, 2024

STATE OF TEXAS §
COUNTY OF TRAVIS §

WHEREAS, pursuant to Section 51.127, Texas Water Code, the Board of Directors (the “Board”) of Travis County Water Control and Improvement District – Point Venture (the “District”) is authorized to adopt and enforce all necessary rates, charges, fees and deposits for providing District facilities or services.

IT IS, THEREFORE, ORDERED BY THE BOARD OF DIRECTORS OF TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT - POINT VENTURE AS FOLLOWS:

I. General Policies.

A. Definitions. For purposes of this Order, the following terms shall have the meanings indicated:

- 1. “Connection” shall mean and refer to each residential unit occupied by a separate family, including separate apartments or townhomes located within a single building, and each business unit occupied by a separate business, including separate establishments within a single building.
2. “District’s Representative” shall mean and refer to the general manager of the District or another representative or employee of the District acting pursuant to the direction of the general manager or the Board of Directors of the District.
3. “Rules” shall mean and refer to such rules and regulations as the District may adopt pursuant to Section 51.127, Texas Water Code.
4. “Systems” shall mean and refer to the District’s water, wastewater, and drainage systems.

B. All Services Required. Except as otherwise expressly authorized in the Rules, or as specifically approved by the Board of Directors of the District, no service shall be provided by and through the District’s System unless the applicant agrees to receive both water and wastewater service from the District.

C. All Services Charged. At no time shall the District render water and/or sewer services without charge to any person, firm, corporation, organization, or entity, except for other governing bodies within the District’s boundaries.

- D. Other Utilities. Prior to installing underground cables, pipelines, or other facilities in the area of the District water supply and sanitary sewer collection lines, representatives of utility companies shall meet with the District's Representative to file such companies' construction plans and schedules and to review the engineering plans illustrating the location of the District's lines.

II. Connections to the District's Systems.

A. Applications for Connections.

1. Any party desiring to make a connection to the District's Systems shall first make an application to the District's Representative in the form approved by the Board of Directors of the District. The applicant shall, upon request, furnish the District's Representative with evidence that the party who will install the tap and connecting line has comprehensive general liability insurance in the minimum amounts of \$300,000.00 for bodily injury and \$50,000.00 for property damage, with an underground rider and a completed operations rider.
2. The District's Representative shall review all applications for connections to the District's Systems. In the event that the District's Representative finds that the materials to be used and the procedures and methods to be followed in laying the line and making the connection are equal to or better than the standards established by the Rules and are in compliance with all terms and conditions of the Rules, the District's Representative may approve the application and the proposed connection, subject to such terms or conditions as the District's Representative deems necessary or convenient to accomplish the purpose and objectives of the Rules.

- B. Payment of Fees. Any party desiring to make a connection to the District's Systems shall pay the appropriate water tap fee and/or sewer tap fee to the District's Representative at the time the application for such connection is made. No connection shall be made until such fees are paid.

C. Impact Fees and Tap Fees.

- a. Water and Wastewater Impact Fees. None at this time.
- b. Tap Fees. The District's water tap fees and sewer tap fees shall each be \$4,200.00 for properties where taps will be installed by a District Representative or contracted by the District for installation.

- D. Security Deposits. A security deposit per Connection shall be paid to the District's Representative by each customer prior to the initiation of service or billed on the first month's water bill for each water meter in the following amounts:

<u>Meter Size</u>	<u>Security Deposit</u>
3/4"	\$300.00
1"	\$500.00
2"	\$500.00

Security deposits shall not be transferable to another customer, but may be transferred to a new account in the District if the current account is closed and shall be held by the District to assure the prompt payment of all bills for water and wastewater services to the customer. Customers who wish to transfer their deposit to a new account must have the required security deposit on file for the meter size for that account. In the event a commercial account becomes delinquent at any time, the District may re-calculate the security deposit to equal up to two times the estimated average monthly bill for such account.

At its option, the District may apply all or any part of a customer's security deposit against any delinquent bill of the customer. Upon discontinuation of service, the deposit shall be applied against amounts due, including any disconnection fees, whether because of the customer's delinquency or upon the customer's request. Any portion of the deposit remaining after deduction of such amounts shall be refunded to the customer. In no event shall the security deposit bear interest for the benefit of the customer.

- E. **Additional Charges.** Any non-routine charges incurred by the District in connection with any water tap, sewer tap, and/or inspection shall be the responsibility of the applicant for such connection and shall be payable to the District upon demand.

III. Water and Wastewater Service.

- A. **Applications for Service.** Prior to activation of residential service, any party desiring to receive service from the District's water or wastewater systems shall make an application for such service to the District's Representative in the form approved by the Board of Directors of the District. All applications shall be made by the record owner or renter of the property for which service is being requested. Proof of residency, a valid photo identification for each person on the account and a security deposit for the meter size of that account must be furnished to the District's Representative upon request. Application fee is set at \$25.00. An additional \$100.00 fee will be charged for same day reconnection for services during regular business hours that have been disconnected. An additional \$350 minimum fee will be charged for all reconnections after hours, weekends, and holidays. These additional charges will be added to the customer's bill. **All deposits are due within 7 days of establishing service or services will be terminated and additional reconnection fees will be applied.**
- B. **Water and Sewer Service Rates.** The rates and charges for the sale of water and the collection and disposal of sewage shall be in effect for residential customers, including multi-family, apartment, townhome and commercial customers within the District from the effective date of this Order.
- C. **Grease Traps.** All commercial accounts are required to perform monthly grease trap maintenance and inspections. The District or its Representative will perform an annual grease trap audit, where monthly grease trap inspections records will be requested and reviewed. A penalty fee of \$20.00 per month will be assessed for any month a grease trap inspection report cannot be provided. Such penalty will be charged on the commercial account's bill.
- D. **Grinder Pumps.** See Attachment "A" for grinder pump service agreement for all single-family customers. See Attachment "B" for grinder pump system standards. All customers must fill out, sign and return a Grinder Pump Service Agreement before service will be initiated. This agreement is not required from Townhouse applicants.

Commented [JC1]: Deadline needed to get a deposit

E. Access to Customer's Premises. The District or its Representative will have the right of access to the customer's premises at all reasonable times for the purpose of installing, testing, inspecting or repairing water mains or other equipment used in connection with its provision of water service, or for the purpose of removing its property and disconnecting lines, and for all other purposes necessary to the operation of the District's System, including inspecting the customer's premises for compliance with the Rules and tariff violations. The customer shall allow the District's Representative access to the customer's property to conduct any water quality or other tests or inspections required by law, by the District's permits or by this Order. Unless necessary to respond to equipment failure, leak or other condition creating an immediate threat to public health and safety or the continued provision of adequate utility service to others, such entry upon the customer's property shall occur during normal business hours and the District's Representative will attempt to notify the customer that they will be working on the customer's property. The customer may require any District's Representative, contractor, or agent seeking to make such entry to identify themselves, their affiliation with the District, and the purpose of their entry.

All customers or service applicants shall provide access to meters, utility cutoff valves and grinder pump controls at all times reasonably necessary to conduct ordinary utility business and after normal business hours as needed to protect and preserve the integrity of the public drinking water supply.

F. District Service Rates.

1. Monthly District Water Rates. For water service within the District's corporation boundaries, each customer will be charged a Base Rate as determined by the size of the meter and a Volume Rate as determined by the actual water usage.

<u>Meter Size</u>	<u>Base Rate</u>
3/4"	\$34.00 \$41.00 includes 1 st 2,000 gallons
1"	\$50.00 \$61.00 includes 1 st 2,000 gallons
2"	\$50.00 \$61.00 includes 1 st 2,000 gallons

<u>Volume Rate - Residential</u>	
0 to 2,000 gallons	= \$34.00 \$41.00 per month (included in base rate)
2,001 to 5,000 gallons	= \$4.40 per 1,000 gallons
5,001 to 10,000 gallons	= \$5.80 per 1,000 gallons
10,001 to 15,000 gallons	= \$7.75 per 1,000 gallons
15,001 to 25,000 gallons	= \$10.00 per 1,000 gallons
25,001 to 50,000 gallons	= \$13.20 per 1,000 gallons
50,001 or more gallons	= \$18.75 per 1,000 gallons

Commented [JC2]: Proposed new rate

Commented [JC3]: Proposed new rate. Will all other usage rates also increase?

2. Bulk Water Sales. The District will sell bulk water to irrigators, hydro mulch operations, water delivery services, and other commercial haulers on an as-needed basis. All hauling vehicles must conform to potable water sanitation standards with the proper air gaps and backflow devices installed. Vehicles must be inspected and approved by the field supervisor or District's Representative prior to being issued a hauling permit.

Bulk water will also be made available for sale to District customers who wish to haul water for home or irrigation use and whose property is not currently located near a waterline. Bulk water customers will not be required to pay an Impact Fee; however, when a waterline is constructed which will serve their property, bulk water hauling will no longer be permitted and water service to the property will require a service connection and payment of all appropriate fees to establish service.

Bulk water will be prepaid, permitted and drawn from designated hydrants only. Refunds for bulk water not used will be made only in the month in which the permit was issued.

Bulk Water Rate:

Tanks less than 2,500 gallons capacity - \$35.00

Tanks greater than 2,500 gallons capacity - ~~\$70.00~~ \$14.00/1,000 gallons

- 3. Surplus Water Sales. The District may sell surplus water to neighboring utilities that have entered into an Emergency Interconnect Agreement with the District.

Surplus water rates will also apply to all infrastructure construction flushing as required to ready water for service.

Surplus Water Rate: \$12.00 per 1,000 gallons

- 4. Monthly District Wastewater Rates. The District charges a standard wastewater base rate of ~~\$44.00~~ \$56.00 per home connection for up to 2,000 gallons water used and \$2.00 per 1,000 gallons water used after. ~~The Winter Quarterly Averaging (WQA) method will be in effect until September 30, 2024. After that, WQA will no longer be in effect, and the \$2.00 per 1,000 gallons after the base 2,000 gallons will be in effect.~~

Commented [JC4]: Proposed new rate

Commented [JC5]: clarification

- 5. Fire Hydrant Meter Fees. Water meters are installed on fire hydrants for sale of water for construction purposes on a temporary basis and shall be requested from the District's Representative. Backflow prevention assemblies are required to be installed by the contractor and tested by a certified backflow technician within forty-eight (48) hours of installation. Fees associated with fire hydrant meters are as follows:

Initial Setup Fees: Meter Deposit of \$2,500.00 and New Service Fee based on meter size requested.

Water Rates: Base Rate is charged according to meter size. Volume Rates are calculated at two times the residential rates.

- 6. Inspection Fees:
 - a. Backflow Device Inspection Fees: Single Family Residential Connection, \$125.00; Non-single Family Residential Connection will be at Cost plus fifty percent (50%).
 - b. New Construction or Remodeling Inspection Fees will be billed to the contractor or homeowner at the District's current cost and will include:
 - i. Sanitary Sewer Inspection
 - ii. Pre-Site Inspection
 - iii. Wall Inspection
 - iv. Fixture Inspection
 - v. Final Site Survey Inspection

- vi. Backflow Prevention Inspection
- vii. Grease Trap Inspection

7. **TCEQ Regulatory Assessment Fee.** The District is required to collect the assessment fee from customers and remit the amount collected to the Texas Commission on Environmental Quality (“TCEQ”), the regulatory authority of the District. The regulatory assessment is not to be collected from state agencies, wholesale customers, or buyers of non-potable water. Because this fee is not tax, tax-exempt institutions also must pay the regulatory assessment. School districts and similar institutions are not considered to be state agencies and so are subject to the regulatory assessment.

Regulatory Assessment:
 0.5% of water charges
 0.5% of retail wastewater charges

8. **Fire Flow Facilities.** The District was established to provide municipal water supply and is not required to provide fire flow. Emergency Services District, the local fire authority, has adopted a fire code which requires all new developments to have fire protection and has established requirements for both firefighting water flow and duration. Should the District be required to provide additional facilities for this fire flow protection, the customer using these additional facilities will be required to pay their portion of the costs to provide such facilities.

Commented [JC6]: Need clarification from attorney of this paragraph.

IV. Additional Service Fees.

A. **Service Reconnect Fee.** There are three different reconnection service fees depending on the customer’s request. These fees will be charged to customers to re-establish water service if the water meter remains in ground and the disconnection was requested by the customer.

- 1. Standard Reconnect - \$100, Connection will be made within regular business hours.
- 2. Same Day Reconnect - \$150, Connection will be the same day if called in early enough to be completed within regular business hours.
- 3. After Hours Reconnect - \$350, Connection will be established after hours, weekends and holidays.

These fees do not apply in emergency leak situations.

B. **Service Calls.** There is currently no charge to customers for service calls made to the District.

Commented [JC7]: Can this be removed? If not, needs clearer parameters.

C. **Fire Flow Test.** A \$100.00 fee will be charged to customers who place a service call to the District for a fire flow test to be performed.

Commented [JC8]: Can this be removed?

D. **Meter Calibrations.** There is currently no charge to customers for meter calibrations performed by the District.

Commented [JC9]: Can this be removed?

E. **Pulling/Resetting Meters.** The following charges will be assessed for pulling and resetting meters at the request of a customer:

Pulling Meters: \$75.00
Resetting Meters: \$75.00

- F. Water/Wastewater Sampling. There is currently no charge to customers for water or wastewater sampling performed by the District.
- G. Consumption Reports. Customers may request a consumption report for possible leaks. The District will allow one courtesy consumption report per account every three years. After that, a charge of \$50 per report will be charged to the customer's account.
- H. Returned Check Fee. In the event a check, draft or any other similar instrument is given by a person, firm, corporation or partnership to the District for payment of services provided for in this Order, and the instrument is returned by the bank or other similar institution as insufficient or non-negotiable for any reason, the account for which the instrument was issued shall be assessed a returned check fee of \$35.00. After three occurrences of insufficient payments to the District within any one-year period, the account will no longer accept the returned method of payment (checks, draft, or similar instruments) for the following year. A letter will be sent to non-delinquent account customers, when a returned payment is received. If a returned payment is made toward a disconnection notice, the delinquent process will continue. If a returned payment is made toward a door tag notice, the customer will be disconnected immediately.
- I. Copies. The charges for obtaining copies of District records that are subject to inspection under Chapter 552 of the Texas Government Code are as follows:
- Standard-size paper copy:** \$0.10 per page
Color ink or paper copy:
 Standard size - \$0.20 per page
 Legal size - \$0.50 per page
 11"x17" - \$0.50 per page
- Personnel charge:** \$15.00 per hour
Miscellaneous supplies: Actual cost, up to \$15.00
Postage and shipping charge: Actual cost, up to \$15.00
- Overhead charges:** Per Texas Building and Procurement Commission regulations, overhead charges will be applied whenever labor charges are applicable to the document request and will be computed at 20% of the labor charge.
1. The charge for providing a copy of public information shall be an amount that reasonably includes all costs related to reproducing the public information, including costs of materials, labor and overhead. If a request is for fifty (50) or fewer pages of paper records, the charge for providing the copy of the public information may not include costs of materials, labor or overhead but shall be limited to the charge for each page of the paper record that is photocopied, unless the pages to be photocopied are located in:
- a. two or more separate buildings that are not physically connected with each other;
or
 - b. a remote storage facility.

2. If the charge for providing a copy of public information includes costs of labor, the requestor may require the governmental body's officer for public information or the officer's agent to provide the requestor with a written statement as to the amount of time that was required to produce and provide the copy. The statement must be signed by the officer for public information or the officer's agent and the officer's or the agent's name must be typed or legibly printed below the signature. A charge may not be imposed for providing the written statement to the requestor.
3. For purposes of subsection (1) above, a connection of two buildings by a covered or open sidewalk, an elevated or underground passageway or a similar facility is insufficient to cause the buildings to be considered separate buildings.
4. Charges for providing a copy of public information are considered to accrue at the time the governmental body advises the requestor that the copy is available on payment of the applicable charges.
5. Except as otherwise provided by this subsection, all requests received in one calendar day from an individual may be treated as a single request for purposes of calculating costs under Chapter 552, Texas Government Code. A governmental body may not combine multiple requests under this subsection from separate individuals who submit requests on behalf of an organization.
6. Any other allowable charges will be in accordance with Title 1 Texas Administrative Code Chapter 70 as it may be revised from time to time. Such additional terms are incorporated by reference.

J. Maps. A \$0.50 fee will be charged to obtain an 11" x 17" copy of a District map.

V. Delinquent Accounts and Discontinuation of Service.

- A. Delinquent Accounts. The District shall bill each customer monthly for all services rendered in the preceding month. All bills shall be due on the due date as specified on the bills and shall become delinquent if not paid as set forth on the bills.
- B. Late Payment Fee. Once per billing period, a late payment fee of \$10.00 shall be applied to delinquent accounts. This late payment penalty shall be applied to any unpaid balance.
- C. Discontinuation of Service. If a bill remains delinquent for ~~fifteen (15)~~ **ten (10)** days, water service shall be discontinued in accordance with this paragraph. Prior to termination, the customer shall be notified of the amount due by letter sent by United States Mail, First Class. A delinquent bill renders the entire account delinquent and the entire account must be paid in full prior to the normal due date in order to avoid interruption of service. The notice shall state the date upon which water service shall be terminated, which date shall be not less than seven (7) days from the date such notice is sent. Such notice shall state the total amount owed, the time and place at which the account may be paid and that any errors in the bill may be corrected by contacting the District's Representative, whose telephone number shall also be given in such notice. Provided, however, that in the event the customer contacts the District's Representative within such seven (7) day period, the District's Representative may, at its option, allow the customer to make arrangements to pay the delinquent amount in installments to be approved by the District's Representative. Prior to termination, the customer shall receive three (3) days' notice of such termination by the District's Representative placing the notice at the

customer's service address. After termination of service, payment by the customer of delinquent amounts due and reconnection charges shall be payable only by credit card, money order or cashier's check. No personal checks will be accepted.

- D. Courtesy Adjustment. A one-time annual courtesy adjustment can be requested for late fees, returned check fee, or delinquency up to ~~\$25.00~~ \$35.00. The Office Manager has the authority to make requested adjustments.

VI. Reconnection of Service after Discontinuation.

- A. Charge for Reconnection. If service to a customer is discontinued for non-payment of a delinquent bill or for any cause legally authorized (including discontinuation upon a customer's request), the customer will be assessed a \$100.00 reconnect fee, and such fee must be paid prior to reconnection.

There are four different reconnect service fees depending on the customer's request. These fees will be charged to customer to re-establish water service if the water meter remains in ground.

1. Standard Reconnect - \$100, Reconnection will be made within **the next business day's** regular business hours.
2. Same Day Reconnect - \$150, Reconnection will be the same day if called in early enough to be completed within regular business hours.
3. After-Hours Reconnect - \$350, Reconnection will be established after hours, weekends and holidays.
4. During a declared emergency by WCID - \$50, Reconnection will be established after declared weather emergency by WCID Board. Reconnection must be during regular business hours.

VII. Penalties/Fines.

- A. Amounts Owed to The District Resulting from Enforcement of District Rules. Fines, penalties, costs, expenses, reimbursements and any other charges imposed by the District pursuant to enforcement of the Rules shall be added to and included on the bills sent monthly to customers, and in accordance with Texas Water Code Section 49.212, shall be subject to the treatment of delinquent accounts as hereinafter provided.

1. Cross Connections. Any connection made straight to a meter without a hose bib and vacuum breaker installed is assessed the following penalty:
Direct Cross Connect Fine: \$1,000.00
Repeat Offense: \$2,000.00
2. Equipment Damage Fee. If the District's facilities or equipment have been damaged by tampering, bypassing, installing unauthorized taps, damage caused by equipment or by hand without calling for locates, reconnecting service without authority or other service diversion, a fee shall be charged equal to actual costs for all labor, material and equipment necessary for repair, replacement or other corrective actions by the District. This fee shall be charged and paid before service is re-

established. If the District's equipment has not been damaged, a fee equal to the actual costs for all labor, material, equipment and other actions necessary to correct service diversion, unauthorized taps or reconnection of service without authority shall be charged. All components of the fee will be itemized, and a statement shall be provided to the customer. If the District's facilities or equipment have been damaged due to negligence or unauthorized use of the District's equipment, right-of-way or meter shut-off valve, or due to other acts for which the District incurs losses or damages, the customer shall be liable for all labor and material charges incurred as a result of said acts or negligence. **Such charges will be added to the customer's monthly bill.**

Tampering with Fire Hydrant Fee:	\$4,000.00
Tampering with Tank Site Fee:	\$10,000.00

3. Illegal Water System Connection Penalty. The following penalties will be assessed for an unauthorized connection to the water system that bypasses a meter ("Hot Tap"):

Builders/Contractors: 1st offense: \$2,000.00
 2nd offense: \$3,000.00
 3rd offense and beyond: \$4,000.00 (per offense) plus meter connect fee and costs to clean or replace meter.

Residential Customers: 1st offense: \$2,000.00
 Repeat offense: \$500.00 (per offense)

This penalty will apply if service was disconnected for non-payment and residential customer turns service back on without paying the District for past due amounts owed and reconnection fees.

5. Illegal Wastewater System Connection Penalty. A \$500.00 fine will be assessed for any unauthorized connection to the District's wastewater system.
6. Water Restriction Violations. A fee of up to \$2,000 per day, per occurrence is applied when the District has issued mandatory outdoor water restrictions. Water Restriction Violation Fines are imposed as follows:

1st offense: Warning issued.
 2nd offense: \$200 fine and water service discontinued until fine is paid.
 3rd offense: \$500 fine and water service discontinued until fine is paid.
 4th offense: \$1,000 fine and water service discontinued until fine is paid.
 5th offense and beyond: \$2,000 fine and water service discontinued until fine is paid.

7. Exceedance of Wastewater Quality Limits. A \$250.00 fine will be assessed, plus actual fees as charged by the District and any of its wholesale service providers whose system is affected to restore the system to normal operation.
8. Sewer Cleanouts. A fine of up to \$100.00, plus actual costs for repairs and services to clear the line, will be assessed for broken cleanouts or impaired sewer plant function due to illegal introduction of foreign substances into the sewer collection system or failure to cap cleanouts where water or debris enter the wastewater system. Customers will be charged \$500.00 plus actual

costs of repairs (time and materials) for repairs performed by a District’s Representative to broken cleanouts with no other damage.

- 9. Other Violations of District Rules. A fine of \$5,000.00 maximum per occurrence may be assessed for other violations of the District’s Rules.

VIII. Leak Billing Adjustments.

One time in any given three-year period, the District will allow a customer with a verifiable leak to pay a special rate of twenty-five percent (25%) of the current water rate for the excess gallons used above the customer’s normal billing history for that month. An adjustment for the sewer rate will include the base rate plus twenty-five percent (25%) of the excess gallons water used that billing cycle. It is at the sole discretion of the District to determine if the high-water usage was a leak covered under this rule or another event that caused the higher-than-normal water usage. Temporary Construction—Memberships construction accounts do not qualify for a leak adjustment. A leak adjustment request must be submitted to the District’s Representative within thirty (30) days of the District’s written notification of high-water usage, meaning the water bill received by the customer. This will be the only notification sent to the customer by the District. Customers requesting a greater adjustment than stated above must present the request in writing along with explanation for the request within the thirty (30) days written notification period. The request shall be reviewed by the Board of Directors at its next regular Board meeting. A majority approval by the Board is required before any additional adjustments will be made.

IX. Filing of Order.

The Secretary of the Board is hereby directed to file a copy of this Order in the principal office of the District.

PASSED AND APPROVED this 25th 23rd day of January, 2024 2025.

Steve Tabaska, President
Travis County Water Control and
Improvement District – Point Venture

ATTEST:

Manuel Macias, Secretary
Travis County Water Control and
Improvement District – Point Venture

[DISTRICT SEAL]



FIRM OVERVIEW

Founded in 1946, Baxter & Woodman, Inc. provides consulting engineering and technology services to municipalities, state agencies, county governments, and sanitary districts throughout Illinois, Wisconsin, Florida, and Texas. Dedicated to promoting a sustainable future, our staff of more than 400 talented engineers, surveyors, technicians, and support personnel incorporates innovative techniques along with tried and true processes.

Baxter & Woodman provides planning, design, construction and technology services for transportation, water, wastewater, and stormwater facilities for municipalities, counties and state agencies and more. Environmental, geographic information systems (GIS), water and wastewater operations, and advanced technology needs complement the firm's civil engineering expertise. The company has several subsidiaries including ones focused on Natural Resources, Municipal Technology, and Design-Build project delivery.

We are
**Infrastructure
planning, design, and
construction.**

Water/Wastewater, Roads/Highways,
Water Resources/Stormwater,
Technology

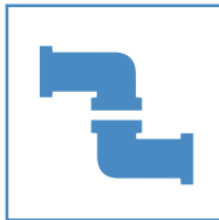
Regional Offices

Baxter & Woodman's 15 regional offices provide our clients with local presence and responsive service. Our team offers services that stretch well beyond typical engineering consulting. We are committed to building community value with each and every project we complete.



Services Overview

Baxter & Woodman's staff of 400+ professionals have provided engineering services to more than 500 communities, counties, and sanitary districts during our 78 years of business. The strength of the Baxter & Woodman team comes from the cohesive and cooperative work effort gained from having expertise in numerous disciplines. We deliver innovative, high-quality civil engineering solutions to meet the unique needs of our clients. With a team of experienced engineers and technicians, we provide **comprehensive services** that guide projects from concept to completion, confirming efficient, sustainable, and cost-effective results.



Infrastructure



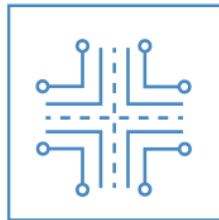
Water



Stormwater



Wastewater



Transportation



Structures/Bridges



Spatial Technology



Construction



Automations/Controls



Lighting



Survey



Public Outreach



Natural Resources



Design-Build



Grants/Funding

Baxter & Woodman Highlights

An integral part of Baxter & Woodman's history, firm founders Richard Baxter & Lorrin Woodman instilled the values of hard work, perseverance, and integrity into the fabric of the company. That legacy lives on here today.

FOCUSED

Engineering, technical, and management solutions that shape and enhance our world. Building community value with every project we complete is our driving force.

COMMITTED

Dedicated to improving quality of life and providing smart infrastructure solutions that leave a positive impact on people, communities and the environment.

SERVICE ORIENTED

Our client-focused culture centers around exceeding expectations. We deliver responsive, reliable service ensuring an exceptional experience every time.

Water Services



Baxter & Woodman Specializes in:

- Finding Funding
- Promoting Conservation
- Meeting Compliance Deadlines
- Protecting Community Health



The Baxter & Woodman water group is committed to protecting and preserving the water supply. Staffed by recognized experts in the field of water supply, treatment, and source protection, the water group specializes in long-term system planning, design, construction, and operation of water supply, treatment, storage, and distribution systems.

Studies

- Lead Service Line Replacement
- Per- and Polyfluorinated Substances (PFAS)

Supply

- Water System Modeling with GIS Integration
- Water System Master Planning
- Groundwater Resources Management/Investigations
- Source Water Quality Management
- Wellhead Protection
- Test Well Drilling Programs
- Deep and Shallow Aquifer Water Supply Wells
- Pilot Studies
- Energy Analysis

Treatment

Safe Drinking Water Act Compliance and Aesthetic Improvements with:

- Air Stripping and Aeration
- Chemical Coagulation and Flocculation
- Sedimentation and Filtration
- Ion Exchange and Absorption
- Hydrous Manganese Oxide
- Biological Filters
- Membrane Separation
- Chemical Oxidation
- Disinfection
- Radium and Barium Residuals Management

Distribution

- Booster Stations
- Transmission and Distribution Mains

Trenchless Technologies

- Water Main Lining
- Directional Drilling
- Pipe Bursting

Reservoirs and Elevated Storage Tanks

Supervisory Control and Data Acquisition (SCADA) Systems

Corrosion Control

Security

Utility District Engineering

THE FORMULA FOR SUCCESS

Established utility districts can face many challenges in day-to-day operations, not to mention the complexities associated with the coordination of joint facilities and the planning, execution, and budget management of capital improvement projects. To meet these challenges, the engineering consultant must deliver timely, competent service and offer specific qualities essential to the project components.

Baxter & Woodman brings the following strengths to support Travis County WC&ID – Point Venture in achieving successful daily operations and long-term objectives:

Utility District Focus

Since our founding, representing utility districts has been the core focus of Baxter & Woodman's Texas operation. As engineer for over 30 *local districts*, providing each with effective services to meet their unique needs.

Baxter & Woodman's processes and operations are geared toward delivering responsive utility district engineering services. We are proud to still serve our first client after nearly 40 years.



Our professionals thoroughly understand established utility districts - their most basic and challenging operations, malfunctions that may arise, projects they undertake, financial considerations, and laws governing how they function.

Utility District Planning | Asset Management

Strategic and long-range planning and asset management are vital to the effective operation of aging infrastructure. An unexpected malfunction in a district's facilities can be an unnecessarily costly problem that creates ripple effects throughout the community. Our focus is on **maximizing the life of infrastructure assets in the most cost-effective manner** while identifying key upgrades that are necessary for long-term reliability and overall life cycle costs.

Baxter & Woodman can effectively take on the responsibility to plan, evaluate, and advise the Board of the current state of the District's infrastructure. We coordinate closely with the operator to manage an appropriate 5-year or 10-year Asset Management, Rehabilitation, and Capital Improvement Program. A typical budget includes predictable costs for

- Water tank recoating
- Water well rehabilitation
- Plant booster pump repair/replacement
- Emergency power facilities
- Sanitary sewer system evaluation and rehabilitation
- Lift station rehabilitation
- Replacement of aging infrastructure

A well-planned, timeline-based budget allows a systematic approach to managing infrastructure repair/replacement, allocating funding, and identifying funding sources **in the most economical manner while minimizing surprises**. The plan also provides stability to alleviate community concerns about fluctuating tax rates, water/sewer rates, and fund reserves.

Budget Management

Recognizing that the Board of Directors is the steward of the taxpayers' money, we work to make certain that planned improvements are limited to what is truly needed, comply with the District's budgetary constraints, and make the most sense economically over the long term.

Responsiveness and Communication

With most regular board meetings occurring monthly, we work actively between meetings to **provide prompt feedback, clear and consistent communication, and appropriate progress** each month. Thorough engineering reports are delivered in advance of meetings and include active project status and any activities performed on the District's behalf. Our team follows established protocols to **promptly respond** to phone calls, emails, and other correspondence.

We assign a qualified assistant engineer to each district to provide continuity and consistent, reliable meeting representation. Each district engineer makes it a priority to be available for all regular and special District meetings and any other meetings desired by the Board.

Our professionals work to build productive, long-term relationships based on responsive service dedicated to understanding and addressing the District's specific needs and best interests.

Agency Coordination | Compliance

Baxter & Woodman fully understands applicable regulatory requirements affecting utility district projects. Our experienced team can leverage many productive relationships established with key personnel at the agencies that may typically be involved in your projects – the City of Houston, Harris County, and the TCEQ. We provide thorough coordination and confirm compliance with regulatory requirements on all projects proactively and on time. Additionally, we have a strong record of working with these agencies to obtain timely feedback and facilitate required plan approvals.

Baxter & Woodman offers consulting civil engineering services to municipal utility districts, cities, governmental agencies, industry, and other public entities throughout the area. Since 1983, our Texas team has provided quality engineering, regulatory compliance, and exceptional client service. With nearly 40 years of utility district experience, we understand the challenges you face and will help you resolve them.

- | | |
|--|---|
| ✓ Wastewater Treatment Plant Design | ✓ Parks, Trails, & Recreational Facilities |
| ✓ Wastewater Collection System Design | ✓ Strategic Planning |
| ✓ Water Supply & Distribution System Design | ✓ Rate Order Analysis |
| ✓ Storm Water Quality Management | ✓ Feasibility & Economic Studies |
| ✓ Drainage System Studies & Design | ✓ Emergency/Contingency Planning |
| ✓ Infrastructure Evaluation & Rehabilitation | ✓ Bond Application Reports |
| ✓ Roadway Design | ✓ Permit Applications, Renewals, Amendments |
| ✓ Site Planning/Platting | ✓ Comprehensive Construction Management |
| ✓ Long Range Planning/Asset Management | ✓ Comprehensive Development Plan Reviews |

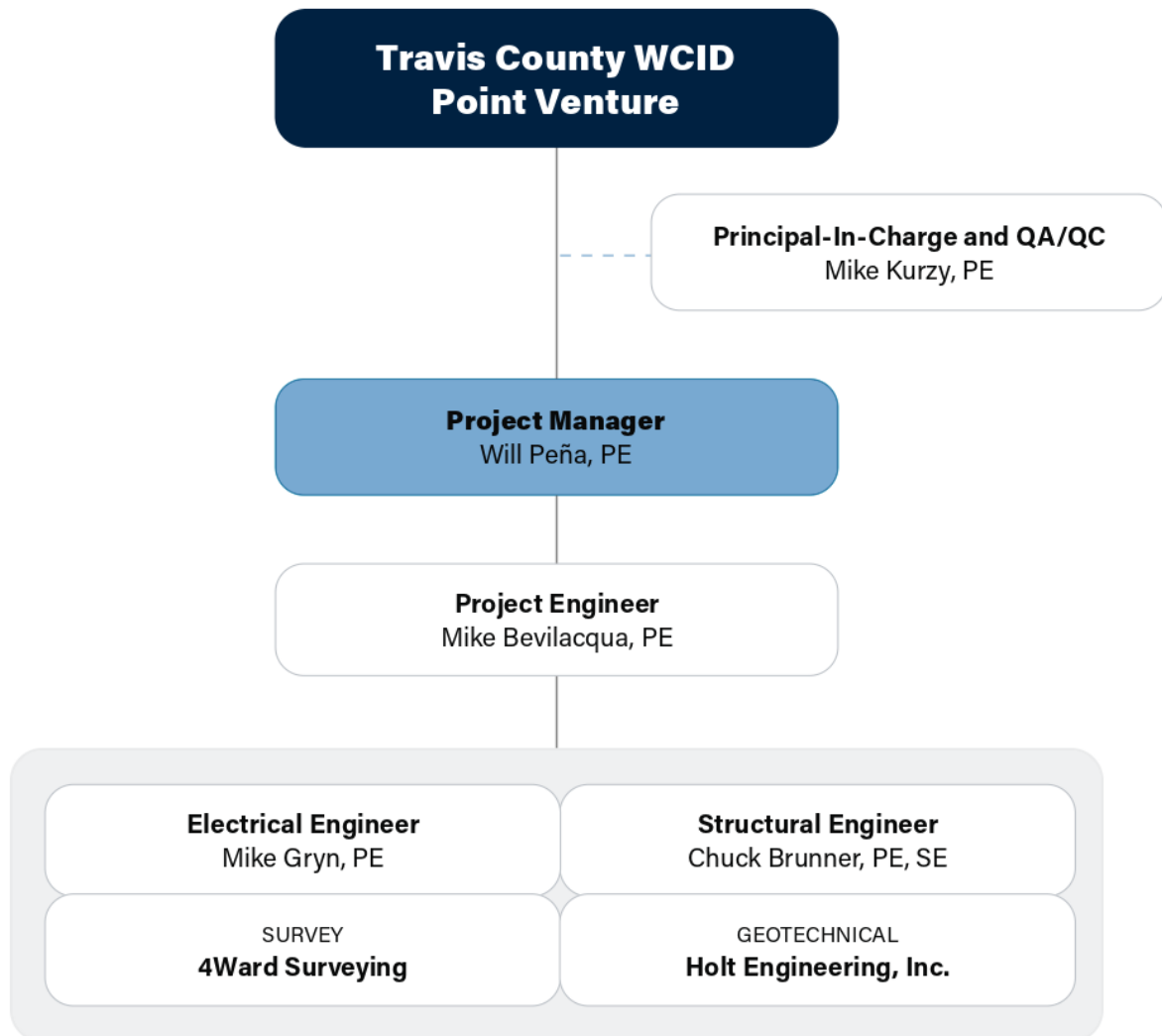
Baxter & Woodman also provides effective governmental agency coordination, facility plans, and vulnerability assessments. Our trained coating and corrosion specialists offer complete water tank coating evaluation and rehabilitation design services. We facilitate improved operations by providing services unique to utility districts, such as district mapping, valve booklets, district Geographical Information Systems (GIS), water system modeling, strategic and asset management planning, emergency/contingency planning, and joint facility coordination.

Staff Qualifications

Project Team Organizational Chart

Travis County Point Venture will receive the benefits of a comprehensive, well-coordinated project team. This project team will meet all defined schedules.

Resumes follow for key discipline personnel indicated below.



Will Peña, PE

Project Manager



Joined Firm in 2017
Years of Experience: 28

EDUCATION

B.S., Civil Engineering, Texas
A&M University, 1995

REGISTRATIONS

Licensed Professional
Engineer: Texas

ASSOCIATIONS

American Water Works
Association
Water Environment
Association of Texas
Water Environment
Federation



Will has over 28 years of experience working closely with municipalities and utility districts to plan, design, and construct numerous water and wastewater projects and master plan service for future growth. Will serves as the client representative for several agencies, including Travis County WCID No. 17.

REPRESENTATIVE PROJECTS

Travis County WCID No. 17, TX

Water Impact Fee Study

Project Manager and Engineer for the preparation of the District's Impact Fee Studies in 2006*, 2013*, 2018, 2022, and 2024. This Study includes Land Use Assumptions for build-out of the District, the Capital Improvement Plan that defines the improvements necessary to serve the projected demand, and the calculation of the Impact Fee necessary to collect the pro-rata share of the improvement costs. The System includes 2 micro-filtration membrane treatment plants, 17 water storage tanks and 8 pump stations to service 8 pressure planes.

Williamson County MUD No. 19, TX

Santa Rita Pump Station

Project Manager and Lead Engineer for the installation of a new pump station and hydropneumatic tank along with piping improvements to establish a new pressure plane. The 2,600 gpm pump station includes three 1,300 gpm end suction pumps, a 30,000 gallon hydropneumatic tank, and associated improvements.

Travis County WCID No. 17, TX

*Highway 71 Elevated Storage Tank**

Project Manager and Lead Engineer for this project, completed in 2007, that included a new 0.5 MG composite elevated storage tank with a height to overflow of 167' and a 12" water line. The project created a new pressure plane in the WCID No. 17 System.

Travis County WCID No. 17, TX

*Hudson Bend Elevated Storage Tank**

Project Manager and Lead Engineer for 0.3 MG welded steel spheroid with a height to overflow of 184', completed in 2011.

Travis County WCID No. 17, TX

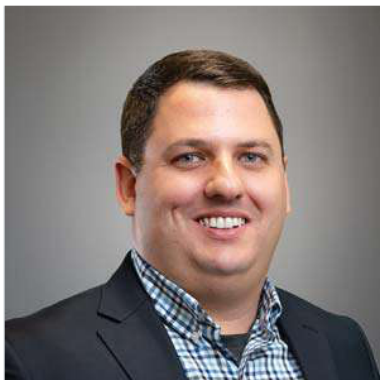
*Mountain View Elevated Storage Tank**

Project Manager for new 1.0 MG composite elevated storage tank with a height to overflow of 219' and a 24" water line. The tank is located on a steep site and required multiple retaining walls and rerouting of drainage flows to establish a suitable site for the new tank.

**while working for others*

Mike Bevilacqua, PE

Project Engineer



Joined Firm in 2023
Years of Experience: 11

EDUCATION

B.S., Civil Engineering,
University of Texas, El Paso,
2010
M.S., Civil Engineering, Texas
A&M University, 2012

REGISTRATIONS

Licensed Professional
Engineer: Texas

ASSOCIATIONS

American Water Works
Association (AWWA)



Michael has extensive experience with water and wastewater, and land development projects from the conceptual design phase through construction. His responsibilities have included the design of wastewater treatment plants, lift stations, pump stations, storage tanks, transmission mains, and site development plans including detention and water quality design. Michael also has considerable experience in TCEQ Discharge and TLAP wastewater permits, and the development of Master Plans, Impact Fee studies, and Subsequent User Fee reports.

REPRESENTATIVE PROJECTS

Travis County WCID No. 17, TX

Flintrock Effluent Improvements Phase II

Project Manager for the preliminary and final design, permitting, and construction administration of this project. Final design included the design of two 10.3 MG 187-ft I.D pre-stressed wire wound concrete effluent storage tanks. Design of this project included large quantities of cut to allow the tanks to be 'cut-in' to the side of a hill to blend with natural surroundings as best as possible.

Travis County WCID Point Venture, TX*

Point Venture Effluent Storage Tank Improvements

Project Manager/Engineer for the final design, permitting, and construction administration of this project. The project included a new 2.1 MG pre-stressed wire wound concrete effluent storage tank with associated site and piping improvements. The purpose of this project was to provide additional effluent storage in conjunction with the existing TLAP permit and increased demand. Design of this project also included tying into an existing outlet line from an existing effluent storage tank to confirm the tanks can operate together and independently.

Travis County WCID Point Venture, TX*

2013 Water Model Update

Project Engineer for the water system study completed in 2013, which included a water model of the water system using both existing and anticipated future demands to identify deficiencies in the system and provide a list of recommended improvements to address those deficiencies.

Copperas Cove, TX*

Mountain Top North 0.30 MG EST

Project Manager/Engineer for the final design, permitting, and construction administration of a 0.30 MG welded steel elevated storage tank (EST) to provide additional storage and fire flow capabilities to the pressure plane. The EST also included yard piping, fencing, and associated site and electrical and instrumentation improvements. This new tank connected to an existing system and 'floated' with another EST within the pressure plane.

**while working for others*

Mike Kurzy, PE

Principal-In-Charge and QA/QC



Joined Firm in 1997

Years of Experience: 34

EDUCATION

B.S., Civil Engineering, Texas
A&M University, 1990

REGISTRATIONS

Licensed Professional
Engineer: Texas

ASSOCIATIONS

American Society of Civil
Engineers (ASCE)
Texas American Water Works
Association
North Houston Association
Major - USAR Retired (MOS
Combat Engineer and
Facilities Engineer)



Mike has over 34 years of experience in civil engineering planning and design, primarily in the areas of commercial and residential land development, drainage, water and wastewater, and construction project management. Mike has significant experience in providing water, sanitary sewer, drainage, detention, and paving facilities to serve land development projects. Mike's expertise includes design of groundwater wells, resolving problematic drainage issues for various entities, and construction management.

REPRESENTATIVE PROJECTS

Harris County MUD No. 102, TX

265k, 240k, & 125k Ground Storage Tank Rehabilitations

Principal-in-Charge responsible for routine water tank inspections identified two GSTs in need of spot repairs and one in need of interior coating replacement. Designed spot recoating for the GST tank exteriors and yard piping at one plant, and an interior blast and recoat at the other.

Montgomery County WC&ID No 1, TX

EST & HPT Rehabilitation

Principal-in-Charge responsible for inspecting and evaluating 800,000-gallon GST and 20,000-gallon HPT. Design and construction management of blast and recoat of both tanks, as well as spot repairs and fill line modifications. Safety improvements included handrails, non-skid surfacing, and ladder repairs.

Harris County WC&ID No. 116, TX

Ground Storage Tank Roof Replacement and Rehabilitation

Principal-in-Charge responsible for inspecting and designing needed GST repairs including replacement of roof with aluminum geodesic dome, replacement of interior/exterior ladders and spot recoating.

Harris County WC&ID 116, TX

250,000 Gallon Elevated Storage Tank Rehabilitation

Principal-in-Charge responsible for an interior and exterior inspection of the existing 250,000-gallon EST in 2018. We recommended recoating the EST interior/exterior plus the column piping, replacing the 12-inch diameter altitude valve, the fill line and modifying the SCADA to better coordinate the District's water supply delivery.

Northwest Harris County MUD No. 36, TX

Ground Storage Tank Rehabilitation

Principal-in-Charge responsible for inspecting water plant facilities and identified that WP 1 GST needed rehabilitation. Designed rehabilitation of the GST interior tank walls, floor, and replacement of the interior ladder and safety climb.

Chuck Brunner, PE, SE

Structural Project Engineer



Joined Firm in 1987
Years of Experience: 41

EDUCATION

B.S., Civil Engineering,
Purdue University, 1983

REGISTRATIONS

Licensed Professional
Engineer: Texas
Licensed Structural
Engineer: Illinois

CERTIFICATIONS

NBIS Certified Program
Manager, Illinois Department
of Transportation

ASSOCIATIONS

International Code of Council
American Society of Civil
Engineers
Structural Engineers Institute
American Concrete Institute
American Institute of Steel
Construction



Chuck is called upon to review the structural design of all projects, including well houses, pumping stations, water storage facilities, water and wastewater treatment facilities, bridges, retaining walls, and drainage structures.

REPRESENTATIVE PROJECTS

Magnolia, TX

Water Plant No. 3 Phase II

Structural Engineer of Record for CMU control building and ground storage tank foundation.

Magnolia, TX

Water Plant No. 3 Phase I

Structural Engineer of Record for water well foundation, HPT foundations, and temporary storage building foundations.

Northwest Harris County MUD No. 30, TX

Water Well No. 2

Structural Engineer of Record for water well foundation.

Cary, IL

Wastewater Treatment Plant Improvements Phases I and II

Lead Structural Engineer for design including sludge drying beds, final clarifier tank, return sludge pumping station, primary digester tank, primary digester control building, grit building, grit tank, and primary clarifier tanks.

Carol Stream, IL

Wastewater Reclamation Center Improvements

Lead Structural Engineer for design including sand filter building, west system pumping station, grit and screen building, blower building, aeration tanks, second stage pump station, mixed liquor flow division chamber and west system flow metering station, secondary clarifier tanks, sludge metering station, chlorination/dechlorination tanks, administration building, and remodeling of existing facilities.

Plainfield, IL

Wastewater Treatment Facilities Improvements Phase II

Structural Engineer of Record for design including aeration tanks, aeration tanks flow division chamber, secondary clarifier tanks, aeration tanks blower building addition, chemical feed building, aerobic digester tanks, belt filter press building addition, and remodeling of the existing facilities.

Michael Gryn, PE

Electrical Engineer



Joined Firm in 2017
Years of Experience: 24

EDUCATION

M.B.A Strategy, Execution and Valuation, DePaul University - Charles H. Kellstadt Graduate School of Business - Chicago, IL, 2008
B.S. Electrical Engineering, Purdue University, West Lafayette, IN, 2002

REGISTRATIONS

Licensed Professional Engineer: Texas
LEED Associated Professional

ASSOCIATIONS

Consulting Electrical Engineers - President 2014-2016, Board Member since 2007
Chicago Safety & Sustainability Conference Planning Committee - Member since 2008



Mike has been responsible for electrical and instrumentation designs for many project types including designs for both small and very large plant expansions as well as new plant and pumping station facilities. He also has experience in power/generator load studies and electrical distributions designs along with PLC upgrades, connection to master control stations, and instrumentation design. Over the last seven years, Mike has been overseeing all project aspects from proposal through construction for electrical and controls designs. Mike's passion is making sure owners and contractors achieve success together while completing their project.

REPRESENTATIVE PROJECTS

Magnolia, TX

Water Plant No.3 Improvements

Electrical and Automation Engineer responsible for the installation of a new water treatment plant across three phases. Phase I involved installing a new well pump and implementing chemical disinfection to supply water to an existing elevated storage tank. Phase II included setting up a new booster station, relocating the electrical power for the existing well pump, and installing new power distribution equipment, a generator, and an automatic transfer switch. Automation enhancements were made to monitor and operate a new ground storage tank, a hydro-pneumatic tank, booster pumping, and chemical addition systems.

Terranova West, TX

Water Plant Electrical Improvements

Electrical and Automation Engineer responsible for the rehabilitation of an existing water plant. The work involved installing a new motor control center to power the booster pumps, well pumps, and other ancillary loads. Additionally, automation improvements were implemented to monitor and operate the ground storage tank, hydro-pneumatic tank, and booster pumping.

Kleinwood Joint Powers Board, TX

WWTP Phase 3 Electrical Improvements

Electrical Engineer responsible for installing three new motor control centers to replace aging infrastructure. The project provided new power to existing blowers for aeration, clarifiers, and various pumping systems throughout the plant. The design required the new equipment to fit within an existing electrical building with spacing constraints. The project included the addition of safety disconnect switches and other electrical safety features to enhance plant operations. The new power distribution system was also designed to utilize the existing on-site backup generators.

Firm Experience

Baxter & Woodman Cedar Park: Storage Tank Experience

Travis County WCID No. 17

Baxter & Woodman has been the District Engineer for Travis County WCID No. 17 since 2017 and provides design and construction administration services for District capital improvements, as well as other services such as master planning, impact fee studies, and plan review.

Before 2017, Will Peña and Mike Bevilacqua provided engineering services while employed at River City Engineering.

Project/Client	Big Bills Storage Tank Travis County WCID No. 17
Volume	1,000,000 Gallon
Style	Welded Steel Standpipe
Year Completed	2003
Construction Cost	\$641,000
Services	Will Peña was the Design Engineer for this project while employed at River City Engineering.

Project/Client	Comanche Trail Elevated Storage Tank Travis County WCID No. 17
Volume	200,000 Gallon
Style	Welded Steel Spheroid
Year Completed	2007
Construction Cost	\$665,000
Services	Will Peña was the Design Engineer for this project while employed at River City Engineering.



Comanche Trail Elevated Storage Tank

Project/Client	Eck Lane WTP Clearwell Travis County WCID No. 17
Volume	1,100,000 Gallon
Style	Precast Prestressed Concrete
Year Completed	2008
Construction Cost	\$1,300,000
Services	Will Peña was the Project Manager for this project while employed at River City Engineering.

Project/Client	Highway 71 Elevated Storage Tank Travis County WCID No. 17
Volume	500,000 Gallon
Style	Composite
Year Completed	2009
Construction Cost	\$1,398,000
Services	Will Peña was the Project Manager and Design Engineer for this project while employed at River City Engineering.



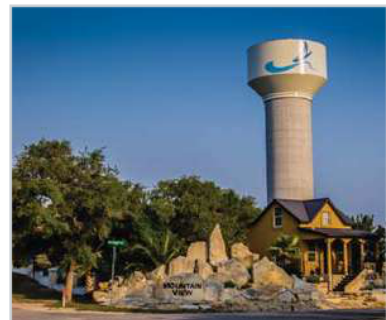
Highway 71 Elevated Storage Tank

Project/Client	Hudson Bend Elevated Storage Tank Travis County WCID No. 17
Volume	300,000 Gallon
Style	Welded Steel Spheroid
Year Completed	2011
Construction Cost	\$1,126,718
Services	Will Peña was the Project Manager for this project while employed at River City Engineering.



Hudson Bend Elevated Storage Tank

Project/Client	Mountain View Elevated Storage Tank Travis County WCID No. 17
Volume	1,000,000 Gallon
Style	Composite
Year Completed	2013
Construction Cost	\$1,398,000
Services	Will Peña was the project manager for this project while employed at River City Engineering.



Mountain View Elevated Storage Tank

Project/Client	Mansfield WTP Clearwell Nos. 1 & 2
Volume	1,000,000 Gallon (Each)
Style	Precast Prestressed Concrete
Year Completed	No. 1 - 2015 No. 2 - 2023
Construction Cost	No. 1 - \$1,150,000 No. 2 - \$1,726,000
Services	Will Peña was the Project Manager and Design Engineer for both storage tanks. Clearwell No. 1 while employed at River City Engineering and No. 2 with Baxter & Woodman.



Mansfield WTP Clearwell Nos. 1 Elevated Storage Tank

Storage Tank Experience for Other Municipalities

Project/Client	Effluent Storage Tank Travis County WCID Point Venture
Volume	2,100,000 Gallon
Style	Precast Prestressed Concrete
Year Completed	2017
Construction Cost	\$1,741,000
Services	Mike Bevilacqua was the Project Manager and Design Engineer while employed at River City Engineering.

Project/Client	Mountain Top North Elevated Storage Tank City of Copperas Cove, TX
Volume	300,000 Gallon
Style	Welded Steel Spheroid
Year Completed	2017
Construction Cost	\$923,000
Services	Mike Bevilacqua was the Project Manager and Design Engineer while employed at River City Engineering.

Water Storage Tank Inspection and Rehabilitation Experience

As the engineer for over 30 local utility districts, with over 50 ground storage tanks and 8 elevated tanks, Baxter & Woodman provides routine, annual inspection programs of district storage tank facilities. These programs keep directors apprised of the condition of district facilities and proactively schedule and budget for planned repairs and rehabilitation.

Baxter & Woodman's uses innovative technology such as a **360-degree camera and underwater remote operated vehicle (ROV)** to keep tanks in service for most inspections. Our asset management and rehabilitation approach is to develop capital improvement and rehabilitation programs that provide planned projects with the best long-term cost effectiveness.

Executive Summary Baxter & Woodman performs numerous tank evaluation, rehabilitation, and new construction projects, as summarized for the most recent five-year period to the right.	Tank Evaluations	Tank Rehabilitation & Construction Projects
Ground Storage Tanks	235	25
Elevated Storage Tanks	20	4
Hydropneumatic Tanks	50	24

Ground Storage Tank Projects

MONTGOMERY COUNTY WCID NO. 1 | EST & HPT REHABILITATION

Baxter & Woodman inspected and evaluated an 800,000-gallon GST and 20,000-gallon HPT. Design and construction management of blast and recoat of both tanks, as well as spot repairs and fill line modifications. Safety improvements included handrails, non-skid surfacing, and ladder repairs.

HARRIS COUNTY MUD NO. 102 | 265K, 240K, & 125K GST REHABILITATIONS

Baxter & Woodman's routine water tank inspections identified two GSTs in need of spot repairs and one in need of interior coating replacement. Baxter & Woodman designed spot recoating for the GST tank exteriors and yard piping at one plant, and an interior blast and recoat at the other.

NW HARRIS COUNTY MUD NO. 36 | GST REHABILITATION

Baxter & Woodman inspected and designed interior GST walls and floor rehabilitation, replacement of the interior ladder and safety climb, and exterior piping spot repairs. The project was delivered on time and within budget.

HARRIS COUNTY WCID NO. 116 | GST REHABILITATION & ROOF REPLACEMENT

Baxter & Woodman inspected and designed needed GST repairs including replacement of roof with aluminum geodesic dome, replacement of interior/exterior ladders and spot recoating. Maintained uninterrupted service.

Elevated Storage Tank Projects**HARRIS COUNTY WCID NO. 116 | EST REHABILITATION**

Baxter & Woodman inspected the EST and identified the need to recoat the interior/exterior and all column piping. Baxter & Woodman designed a complete blast and recoat, as well as all needed spot repairs.

HARRIS COUNTY WCID 133 | EST REHABILITATION

Baxter & Woodman evaluated and designed improvements including blasting and recoating of the interior of the 400,000-gallon EST.

MONTGOMERY COUNTY WCID 1 | EST REHABILITATION

Baxter & Woodman evaluated tank condition and designed a complete exterior blast and recoat and fill line modifications.

Hydropneumatic Tank (HPT) Projects**HARRIS COUNTY MUD 18 | HPT REHABILITATION**

Baxter & Woodman evaluated the HPT, finding corrosion and blistering. Designed interior blast and recoat, exterior topcoat, and spot repairs.

TERRANOVA WEST MUD | HPT REHABILITATION

Baxter & Woodman evaluated the HPT and designed repairs including spot power tool clean and repair with epoxy mastic, exterior topcoat, and near-white metal blast, and recoated the interior with three-coat polyamide epoxy system.

GST & HPT Rehabilitation**HARRIS COUNTY MUD NO. 215 | GST & HPT REHABILITATION**

Baxter & Woodman performed a detailed inspection of the water plant facilities and identified GST and HPT rehabilitation needs. Baxter & Woodman designed complete interior and exterior blasting and recoating of both tanks, as well as repairs to concrete pipe supports and splash pad. Managed construction and coordinated use of interconnect to maintain continuous service since this was the District's only water plant.

Professional

Engineering

Services

Replacement of Augusta Standpipe and GIS Database Development

Statement of Qualifications

Travis County
Water Control
and Improvement
District –
Point Venture

November 8, 2024





November 8, 2024

Attn: Steve Tabaska
Board President
Travis County Water Control & Improvement District – Point Venture
18606 Venture Drive
Point Venture, TX 78645

Re: Request for Qualifications (RFQ) – Replacement of Augusta Standpipe and GIS Database Development

Dear Mr. Tabaska:

Thank you for the opportunity to submit our statement of qualifications (SOQ) to assist the Travis County Water Control and Improvement District (WCID) with the Augusta Standpipe Replacement and GIS Database Development projects. This SOQ demonstrates our ability to provide unsurpassed engineering and surveying services for these types of projects. Our *client first* philosophy means that the interests of our clients are a priority. Toward this end, we are excited to offer a highly qualified and responsive team to assist the WCID. With our selection, the WCID will receive effective solutions for its budget and schedule as well as achieve its goals.

The following unique features of our team will result in successful service to the WCID.

- **Seventy-eight years of service signifies organizational strength and commitment to quality**
- **Approach delivers solutions that enhance the value of WCID infrastructure**
- **Our record of proven performance results in technically sound solutions**
- **Integrated, corporate-wide scheduling program proves availability of staff**
- **Expertise and experience with relevant projects instill confidence in successful projects for the Travis County WCID – Point Venture**

Our firm meets the appropriate state licensing requirements to perform engineering services in the state of Texas (Registration Number F-8405). If there are any questions concerning our SOQ, please do not hesitate to contact us. We value the opportunity to help the WCID meet its engineering needs.

Sincerely,

STRAND ASSOCIATES, INC.[®]

Mark A. Rudolph, P.E.
Primary Contact

Kelly M. Hajek, P.E.
Secondary Contact

P240.758/MAR:ksn



Table of Contents

**Section
Page No.**

Firm Profile

Seventy-Eight Years of Service Signifies Organizational Strength and
Commitment to Quality..... 1

Project Approach

Approach Delivers Solutions that Enhance the Value of WCID Infrastructure 6

Project Team

Team’s Record of Proven Performance Results in Technically Sound Solutions..... 9

Integrated, Corporate-Wide Scheduling Program Proves Availability of Staff 12

Project Experience

Expertise and Experience with Relevant Projects Instill Confidence in Successful
Projects for the Travis County WCID – Point Venture..... 14

Appendix

- Resumes

Firm Profile

Seventy-Eight Years of Service Signifies Organizational Strength and Commitment to Quality

We have been providing exceptional civil and environmental engineering service to clients since 1946. We attribute our organizational strength to our talented engineers, effective management, and, most of all, commitment to nurturing long-term client relationships. Our Corporate Mission states that we are “dedicated to helping clients succeed through excellence in engineering.” In accordance with this mission, we are continually expanding our staff and service offerings to broaden our base of experience and knowledge so that we can provide more creative and comprehensive solutions to meet the continually evolving needs of each client.

Through trust, reliance, and professional relationships, clients have enabled us to achieve 78 years of excellence in engineering.

In an ongoing commitment to serve our Texas clientele effectively and efficiently, our Brenham staff has now grown to 28 and we anticipate continuing to add to this talented group to provide an even broader array of expertise and greater depth of experience for clients. Additionally, the nature of our projects continues to evolve in harmony with the increasingly complex needs of clients.



Brenham office.

Wide Range of Services Meet All Project Needs

Our areas of specialization include the following:

- **Civil and municipal engineering**
- Transportation engineering
- **Wastewater treatment and conveyance engineering**
- **Water supply engineering**
- Stormwater management
- Electrical and heating, ventilation, and air conditioning (HVAC) engineering
- Building/facility engineering, architecture, and sustainable design
- Aviation
- Natural gas distribution
- Wetland delineation, mitigation, and restoration
- Ecosystem study and restoration
- **Geographic information systems (GIS) and mapping**
- Surveying and right of way acquisition
- Land development
- Construction-related services
- Financial assistance

Our services are tailored to the needs of clients.

Strategic Office Locations Conveniently Serve Clients Throughout the Region

To serve our national client base efficiently, we have multiple offices throughout the U.S.



Civil and environmental engineering and science services are provided from multiple offices throughout the U.S.

Reliable Consulting Service Has Cultivated Long-Standing Client Relationships

Clients rely on us as a partner in addressing their engineering and science needs. We have developed and continue to maintain long-standing affiliations, many extending into several decades of service. Our service is flexible and tailored to the unique needs of each client. For some, we serve as appointed engineers and are active committee members; for others, we serve as specialty consultants to their in-house staff on an as-needed basis.

We understand the value clients place on *consistency* of personnel, *continuity* in project development, and *responsiveness* to questions or concerns. Accordingly, we expend every effort to make sure that the team initially chosen is involved with a project from beginning to end, and that project inquiries are handled promptly and thoroughly.

Effective Management Practices Provide a Stable Foundation

To serve clients effectively, we employ a *horizontal project management structure*. For each project, a principal engineer is assigned to provide technical and office resource support. Other day-to-day decisions, however, are made at the project level by the engineers most familiar and involved with the work.

Clients find reassurance in the fact that each of our engineers is supported by the expertise of a multidisciplinary engineering firm. This approach enables use of all our resources while maintaining the personal involvement associated with a single point of contact – a person trained to assist through plan development, design, and implementation.

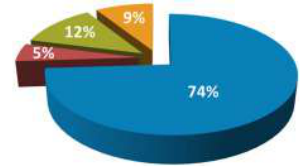
Only with solid management practices could a company thrive in this industry for 78 years.

Our commitment to long-term client relationships is a major factor in our success.

With our organizational structure, critical decisions are made by those most familiar with the day-to-day work on the project.

High Level of Service Made Possible Because of Dedicated, Results-Oriented Staff

Our expert staff of more than 500 employees embody the academic backgrounds and experience of all disciplines normally necessary to complete a project successfully. More than 60 colleges and universities are represented on our staff. Our engineers average more than 11 years of experience and the majority are licensed or have advanced degrees. We are managed by our active engineering staff.



- Professional Engineers/Specialists
- Other Professionals
- Technical Support
- Administrative Support

2024 Staff Resources

- **Total Staff**.....526
- **Engineers**388* (74%)
 - Environmental engineers/specialists101
 - Civil engineers.....125
 - Transportation engineers (includes 10 Aviation engineers)98
 - Structural engineers25
 - Electrical engineers.....26
 - Mechanical engineers.....13
- **Other Professionals**..... 25 (5%)
 - Architects 2
 - Information technologists.....10
 - Right of way acquisition agents..... 5
 - Professional land surveyors..... 8
- **Technical Support** 62 (12%)
 - Field technicians.....22
 - Office technicians/CADD operators40
- **Administrative Support**..... 51 (9%)
 - Clerical, accounting, human resources, business development51

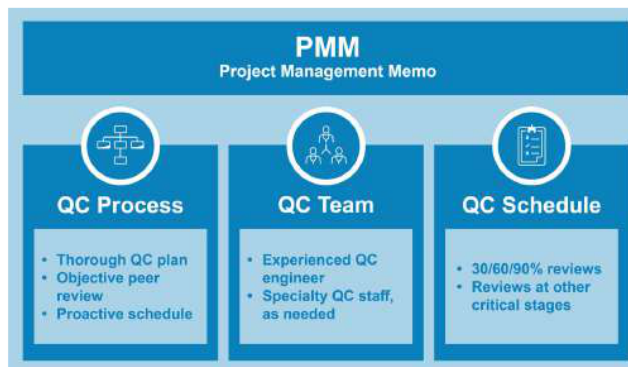
* Twelve (12) of these are LEED® accredited or ISI envision professionals.

Innovative Project Management Techniques Produce Quality, On-Time, Cost-Effective Projects

Our internal Quality Control (QC) program focuses on applying quality peer review at each stage of the design process. As the project is scoped, the Project Manager issues a Project Management Memorandum (PMM) describing the individual QC plan for the project and identifying a key Quality Control Engineer – an individual responsible for critiquing the design for technical accuracy, constructability, and conformance to project objectives at critical stages throughout project development.

Our approach to managing projects effectively involves ongoing quality control reviews.

We have a corporate-wide scheduling program that can provide up-to-date status reports on the schedule of every staff member at each office. Because we know the 2-year workload of each employee, we can make a commitment to a client’s schedule.



Quality review program defines commitment to excellence.

State-of-the-Art Facilities and Technology Enable Us to Maximize the Level of Effort Applied to a Project While Minimizing Cost

To serve clients better, we continually upgrade the technology at each of our offices and train our staff on the effective use of the latest tools available. Our offices are comparably equipped with videoconferencing equipment, enabling face-to-face communications between our clients and our experts around the nation. Our Zoom system is linked to our offices via real-time voice and high-definition video. Videoconferencing computers are integrated with a Local Area Network (LAN) and Wide Area Network (WAN), permitting direct digital sharing of Computer-Aided Design (CAD) and other drawings across the videoconferencing network.

The system also includes data-sharing via remote-operated video cameras, television monitors, high-definition computer monitors, and high-speed computers. Our system enables teams in different offices to interact seamlessly. With ready access, we can bring our experts together cost effectively by eliminating the added expenses of time and travel.



Videoconferencing enables us to meet efficiently with team members across all our offices.

Awards and Recognition Demonstrate Leadership in Evolution and Application of Innovative Technology

Our designs have gained local and national acclaim and we are consistently included in *Engineering News-Record's (ENR)* lists of top design firms. These rankings are based on annual engineering fees generated through our Brenham office as well as across our entire firm. Our current rankings are Texas and Louisiana Top Design Firms – 90; National Top 500 Design Firms – 177. As there are hundreds of engineering firms in Texas and thousands across the country, these rankings indicate the relative depth of services we provide each year – a direct result of the high value we place on long-term client relationships.

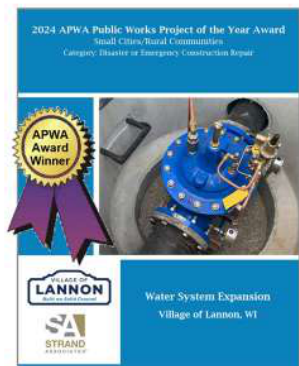
We have received distinctions and client praise for our ability to coordinate and facilitate challenging projects that solve problems and create opportunities for multiple stakeholders.

Below is a partial list of awards we have recently received.

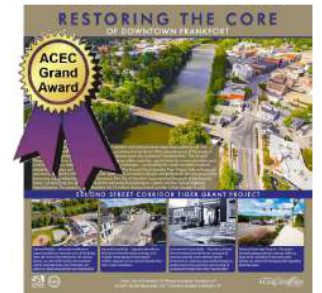
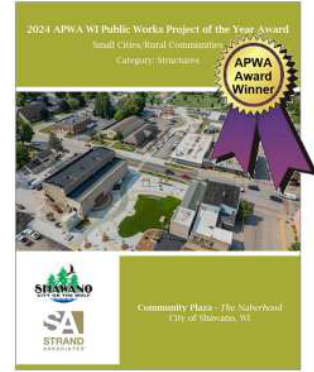
- 2024 ACEC National Recognition Award – Bee Branch Creek Railroad Culvert and Pedestrian Tunnel Project – Dubuque, IA
- 2024 APWA National Small Cities/Rural Communities Public Works Project of the Year Award – Historical Restoration/Preservation – Water System Expansion – Lannon, WI

Our equipment enables the resources of each office to be shared with all other offices.

Because of our considerable history with state-of-the-art interoffice communications, we can integrate, seamlessly, the expertise and experience of our local staff with that of our staff nationwide.



- 2024 APWA National Small Cities/Rural Communities Public Works Project of the Year Award – Historical Restoration/Preservation – Shawano Plaza – Shawano, WI
- 2024 ACEC Iowa Engineering Excellence Grand Place Award – Bee Branch Creek Railroad Culvert and Pedestrian Tunnel Project – Dubuque, IA
- 2024 ACEC Wisconsin Engineering Excellence Best of State Award – Bee Branch Creek Railroad Culvert and Pedestrian Tunnel Project – Dubuque, IA
- 2024 ACEC Wisconsin Engineering Excellence State Finalist Award – West Jackson Street Reconstruction – Wisconsin Rapids, WI
- 2024 APWA WI Small Cities/Rural Communities Public Works Project of the Year Award – Historical Restoration/Preservation – Water System Expansion – Lannon, WI
- 2024 APWA WI Small Cities/Rural Communities Public Works Project of the Year Award – Historical Restoration/Preservation – Shawano Plaza – Shawano, WI
- 2024 Ohio Water Environment Association Engineering Excellence Award – Lick Run Valley Conveyance System and Greenway Project – Cincinnati, OH
- 2024 Federal Highway Administration Environmental Excellence Award – Second Street Corridor Project – Frankfort, KY
- 2023 ACEC Kentucky Engineering Excellence Grand Award – Hite Creek Water Quality Treatment Center Expansion – Louisville Jefferson County Metropolitan Sewer District, KY
- 2023 American Council of Engineering Companies (ACEC) Kentucky Engineering Excellence Grand Award – Second Street Corridor TIGER Grant – Frankfort, KY
- 2023 ACEC Wisconsin Engineering Excellence Grand Award – Star City Wastewater Treatment Plant Improvements – Morgantown Utility Board, WV
- 2023 ACEC National Engineering Excellence Recognition Award – Hite Creek Water Quality Treatment Center Expansion – Louisville Jefferson County Metropolitan Sewer District, KY
- 2023 ACEC National Engineering Excellence Recognition Award – Second Street Corridor TIGER Grant – Frankfort, KY
- 2023 ACEC National Engineering Excellence Recognition Award – Star City Wastewater Treatment Plant Improvements – Morgantown Utility Board, WV
- 2023 ACEC Ohio Engineering Excellence Honor Award – Combined Sewer Overflow (CSO) Nos. 2 and 3 Mitigation Project – Fostoria, OH
- 2023 ACEC Wisconsin Engineering Excellence Best of State Award – Star City Wastewater Treatment Plant Improvements – Morgantown Utility Board, WV
- 2023 ACEC Wisconsin Engineering Excellence State Finalist Award – Washington Avenue (STH 20) Reconstruction – Racine, WI
- 2023 Wisconsin Department of Transportation (WisDOT) Excellence in Highway Design Award – Best Local Program Project – West Jackson Street – Wisconsin Rapids, WI
- 2023 WisDOT Excellence in Highway Design Award – Best Urban Project – Washington Avenue (STH 20) Reconstruction – Racine, WI
- 2022 ACEC Wisconsin Engineering Excellence Best of State Award – USH 18/151 (Verona Road) Reconstruction Stage 2 – Madison, WI
- 2022 ACEC Wisconsin Engineering Excellence State Finalist Award – Marquette Interchange Green Infrastructure Project – Milwaukee, WI
- 2022 ACEC Wisconsin Engineering Excellence State Finalist Award – Janesville Town Square – Janesville, WI
- 2022 ACEC National Recognition Award – USH 18/151 (Verona Road) Reconstruction Stage 2 – Madison, WI
- 2022 American Concrete Pavement Association (ACPA) Indiana Chapter Excellence in Concrete Pavement Award – INDOT R41066 Concrete Pavement Restoration, State Road 19



Project Approach

Approach Delivers Solutions That Enhance the Value of WCID Infrastructure

Our philosophy for quality-of-life infrastructure initiatives begins with the end goal in mind. By thoroughly understanding the motivations and desired outcomes of our project partners, we can help chart the proper approach to achieving project objectives. The manner in which we communicate with the WCID will set the stage for a successful project.

Interaction with WCID Staff

We will start each assignment by holding a kickoff meeting with WCID staff, TWDB personnel (when appropriate), and the grant consultant (if the WCID utilizes one for this project) to understand their goals and objectives. We will outline a communication structure with the WCID with clearly identified points of contact, project schedules, and a communication schedule. We find that weekly or biweekly status updates by phone, with e-mail summaries of decisions and issues discussed, and face-to-face meetings with the client (as desired) keep things moving. This communication structure and reporting will be important throughout any service we provide.

Project Approach

Our typical approach to the engineering functions of a TWDB project is divided into four phases: *planning and application*, *preliminary design*, *final design*, and *bid*. Our team is fully committed to providing excellence in engineering throughout each of these phases.

When the WCID needs a single task or project performed – such as a survey or an environmental study – we will apply the same work ethic to that singular task or project. Through discussions with WCID staff, we will develop a thorough understanding of the scope of each project and employ the approach below.

It is our intent to fully utilize available funding opportunities. Our project approach will deliver cost-effective improvements that result in significant benefits. We have been highly successful optimizing funding for many clients and will do so for the WCID as well.

- **Augusta Standpipe Replacement**

- **Planning and Application Phase**

We understand the WCID will apply for a low-interest loan through the TWDB DFUND program to fund the replacement of the Augusta Standpipe with either a new standpipe or elevated storage tank (EST).

We will prepare all technical documents required for the TWDB application and will work with the WCID’s financial advisor and bond counsel regarding the financial requirements. We can prepare environmental assessments and impact statements, but often work with an environmental subconsultant who is knowledgeable on the TWDB environmental requirements.

- **Preliminary Design Phase**

During the preliminary design phase, two tasks will receive initial emphasis. First, we will hold a preliminary design conference with the WCID to review the scope of the project and establish or confirm expectations, project objectives, and priorities. Next, we will collect the information required for design of the proposed improvements. Collected information will include any field surveys required to develop background drawings for the proposed improvements, along with geotechnical and utility information required for design.

By thoroughly understanding the motivations and desired outcomes of our project partners, we can help chart the proper approach to achieving project objectives.



Our holistic approach is centered on maximizing the WCID’s return on investment.

We begin developing construction costs during the planning phase of a project when budgets are first established.

Following the predesign conference and data collection, we will begin work on preliminary designs, preliminary cost opinions, and other appropriate deliverables. As part of the preliminary design phase, we will work with those entities requiring permits and other approvals, such as the Texas Commission on Environmental Quality (TCEQ) and the Lower Colorado River Authority (LCRA).

○ **Final Design Phase**

Following preliminary design of improvements, we will meet with the WCID and other stakeholders (including the TWDB) to review the preliminary information. We will also coordinate with owners of utilities that may be impacted. After WCID approval of the preliminary engineering documents, we will proceed with final design, including preparing contract documents, final drawings, specifications, and bid schedules.

Final designs will comply with TWDB requirements and local codes and design standards. Our goal is to produce clear, concise plans that are easy for owners and contractors to read and understand while including the information required by various regulatory agencies and Utilities. Following final design document approval by WCID staff, final cost opinions will be prepared. The final design documents will be submitted to the TWDB for approval prior to proceeding into the bidding phase.

○ **Bid Phase**

The bid phase will begin with authorization to advertise for construction bids. We will prepare the bid advertisement, distribute plans and specifications, answer questions from bidders, assist with bid opening, analyze bids, and provide information to assist with awarding contracts. We will also assist with preparation and execution of construction contracts.

Our engineers have extensive experience dealing with issues raised by contractors. Our approach is to resolve each issue without the need for change orders, an approach that has proven highly successful. The same individuals responsible for project design will remain involved throughout the duration of the project.

○ **GIS Database Development**

- **Information Gathering Phase** – We will gather preliminary information from available sources, including parcels, aerial photography, existing utilities (if desired), and governmental boundaries. We will also bring in existing Travis County web services whenever possible to make sure the information used is up to date.
- **GIS Layer Preparation Phase** – Organizations can use, create, and share a wide range of geographic content, including maps, scenes, apps, and layers. The ability of individual organization members to access and work with content in different ways depends on the privileges that can be assigned to members through roles. We will work with the WCID to determine the proper user types for everyone from staff to the general public.
- **GIS System Migration to ArcGIS Online** – We will build a web application using ArcGIS Online that enables staff to connect to the database using several different types of devices, such as tablets, laptops, desktop computers, and mobile devices (both Android and iOS). The web application will enable real-time updates to the database so that the WCID can be assured that staff are viewing the most up-to-date information.

We have always prioritized quality control and compliance with local codes and design standards.



- **Finalize and Launch the Web Application** – WCID staff will have the opportunity to review both the database and web application. These reviews will provide verification that the correct application tools are in place to provide the appropriate functionality. Final modifications will be made based on results of review of the web application. We will conduct thorough on-site training with staff, and following the on-site training session, the application will be live and available for use.

Project Management

Our overall project management approach includes developing a communication plan, tracking schedules and costs, preparing project reports, and providing quality control reviews. Our project delivery will instill confidence that the completed project will meet desired outcomes, schedules, and budgets.

Conclusion

We are excited for the opportunity to serve the Travis County WCID – Point Venture and are committed to providing a high level of engineering service in an efficient manner. The WCID will receive excellent and responsive service with our straightforward approach to engineering.

Project management approach instills confidence.

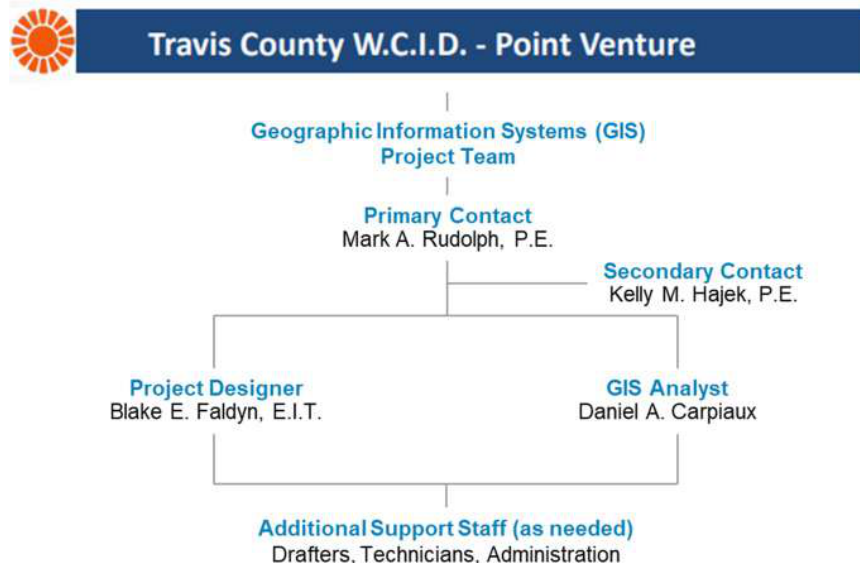
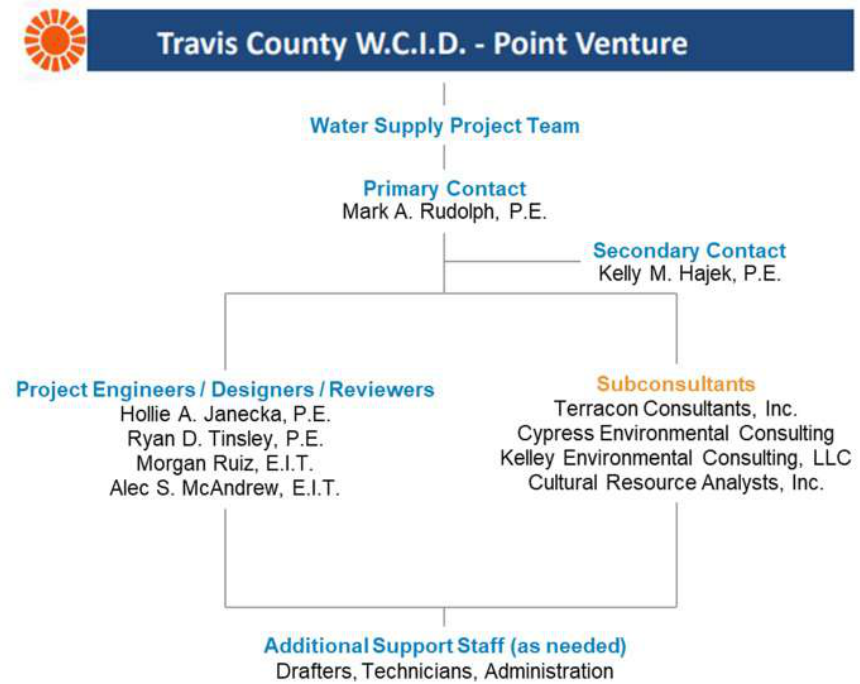
Project Team

Team’s Record of Proven Performance Results in Technically Sound Solutions

This section provides information on the key personnel who comprise our project team. These individuals will be responsive to the WCID’s needs, provide smooth and effective communications, and capitalize on the talents of both in-house and client-team members. The licensed Professional Engineers are registered to practice in the state of Texas and, per the Texas Engineering Practice Act, are in good standing.

We will be responsive to the WCID’s needs, provide smooth communication, and capitalize on the talents of both in-house and client-team members.

Below is an organizational chart of our team followed by a brief description of each team member and their role. Resumes are included in the *Appendix*.



Primary Contact

Mark A. Rudolph, P.E. (Texas P.E. #144840), will serve as the Project Manager and will be responsible for communications with the WCID, staff coordination, and project administration throughout the project. Mark has been involved in the design of various municipal, water, wastewater, natural gas distribution, and GIS projects. He has also been involved in the preparation and submission of TCEQ applications for renewal and amendment of wastewater and stormwater permits. Mark has extensive experience with state and federal funded projects, as well as coordination with state agencies, including the TCEQ, TWDB, and Texas RRC.



Mark's water storage and treatment system project experience includes the Chappell Hill WSC Water System Evaluation; Central Washington County WSC TWDB Water Plant, Standpipe, and Water Well Improvements; City of Sealy Rexville EST Rehabilitation; and City of Brazoria EST & GST Rehabilitation. Mark's GIS project experience includes development of databases for Central Washington County WSC's water distribution system, and the City of Luling's water and sewer systems.

Secondary Contact

Kelly M. Hajek, P.E. (Texas P.E. #103547), will serve as the Quality Control Engineer for this project. Kelly has provided application preparation assistance, project management, engineering design, preparation of estimates, construction inspection, and construction contract administration for numerous projects. Kelly has prepared engineering designs for drainage systems, streets and sidewalks, water distribution projects, sanitary sewer systems, natural gas distribution system projects, generators, and commercial and educational land development. Kelly has 20 years of experience working with many governmental agencies, including cities, counties, the Texas Department of Transportation (TxDOT), the Texas GLO, and the TCEQ.



Kelly has managed and/or designed a wide variety of water storage and treatment plant projects, including the City of Brenham's Surface WTP Rehabilitation and Expansion, Water Supply and Treatment Expansion Plan; City of Snook 2019 TxCDBG Water Improvements; the City of Sealy's Ward Bend GST Rehabilitation project; the City of Snook's 2019 TxCDBG New GST and Generator; the City of Daisetta's TxCDBG Tank Rehabilitation project; the City of Brenham's TxCDBG Church Street EST Rehabilitation project; and the City of Sweeny's New Peach Street GST and Peach Street EST, and GST Rehabilitation project.

Project Designers / Designers / Reviewers

Hollie A. Janecka, P.E. (Texas P.E. #135892), has 8 years of engineering design experience and serves as the Discipline Coordinator for Water and Wastewater groups in our Brenham office. She has engineering experience working with AutoCAD Civil 3-D, StormCAD, SewerCAD, and GIS software to create construction drawings. She also has experience in commercial and residential land development, including design of site layouts, water main, drainage elements, roadways, and storm sewers. Hollie has experience working with many governmental agencies, including Texas GLO, FEMA, and Texas CDBG.



Hollie's water storage and treatment plant project experience includes rehabilitating and recoating the Atlow EST and the TxCDBG Church Street EST in Brenham; Eagle Street EST Rehabilitation in Weimar; the 2020 TxCDBG Henderson Hill GST, 2018 TxCDBG Wolters Avenue GST, and Wolters Avenue EST Rehabilitation in Schulenburg; the new EST in Cleveland; and the Elevated Tank Rehabilitation for the Tarkington Special Utility District.

Ryan D. Tinsley, P.E., ENV SP (Texas P.E. #132320), has 22 years of experience providing planning, design, and construction-related services on a variety of assignments. Ryan serves as the Director of Operations for the Brenham office as well as the Discipline Coordinator for the Municipal, Stormwater, Pumping-Conveyance, and Transportation Group. In these roles, Ryan provides operations support and oversight for a variety of projects, ranging from utility extensions to large transportation projects. Ryan has experience working with FEMA, Texas CDBG, the Texas Department of Transportation (TxDOT), and the Texas Commission on Environmental Quality (TCEQ).



Examples of Ryan's water project experience include the City of Richwood North Water Plant, GST, Booster Pumping Station, and Water Main Extensions; City of Brenham Water Supply and Treatment Plant Expansion Plan and FY 2019 Water Main Replacements; City of Sealy Downtown Water Well and Raw Water Main, Rexville Road Water Plant, and Downtown Water Main Replacement; and Impact Fee studies, Utility Master Plans, Capital Improvement Plans, and Preliminary Engineering studies for the cities of Brenham, Hearne, Hempstead, Richwood, Sealy, and Splendora, and the South Cleveland Water Supply Corporation.

Morgan Ruiz, E.I.T., joined our firm in 2019 and has experience in designing water plants, distribution lines, and sanitary sewer collection lines. Morgan's water plant experience includes new and rehabilitation of existing groundwater plants, including wells, booster pump stations, and water storage tanks. Morgan's most recent water plant experience includes City of El Campo Well and GST Replacement, City of Richwood North Water Plant, and City of Sealy Well and Raw Water Main, as well as Rexville Road Water Plant. Morgan's water distribution line experience includes City of Richwood Walnut Street Water improvements, CDBG Pecan Street Water Main Improvements, and North Water Main improvements and City of Sweeny Bond Issued Water Improvements. Morgan's sanitary sewer collection experience includes City of Richwood CDBG-DR GLO Sanitary Sewer Improvements, Magnolia Lane Sanitary Sewer improvements, City of Sealy Walmart DC Sanitary Sewer Replacement, and City of Sweeny GLO Sanitary Sewer improvements.



Alec S. McAndrew, E.I.T., joined our firm in July 2023 with a B.S. in Environmental Engineering from the University of Texas at Austin. His primary focuses are water and wastewater treatment.



Alec has experience with all phases of a project, from design to bid to construction administration and RPR. Alec has also provided engineering services on the City of Brenham's Surface WTP Rehabilitation and Expansion, and Washington County Water Supply Corporation's Water Plant TTHM Aerators project.

Blake E. Faldyn, E.I.T., received a B.S. in Civil and Environmental Engineering from Texas A&M University and joined our firm in 2021. Blake has diverse municipal experience, including water distribution, water modeling, impact fees, and sanitary sewer collection. Blake has also performed RPR services on many projects.



Blake's recent project experience includes the City of Richwood ARPA South Water Plant; City of Sealy 2022 Utility Master Plans and Impact Fees; City of Hempstead Water System Model development; City of Brenham Water System Model development; Tarkington Special Utility District Water CIP and Impact Fees; and City of Sealy ARPA Sanitary Sewer improvements and ARPA Lift Station improvements.

GIS Analyst

Daniel A. Carpiaux, GIS Analyst, will serve as the GIS Analyst in charge of developing all necessary mapping tools and report products. Dan has 24 years of experience with various GIS applications for both public and private sectors. As our lead GIS analyst, he has developed and updated utility databases for many municipalities using ArcGIS. Dan was involved in GIS system creation and mapping for WisDOT’s Stormwater Mapping and Illicit Discharge Detection project, and has extensive experience with geodatabase design and creation, ArcGIS Online implementation, ArcGIS Server Enterprise implementation, GPS technology implementation, and 3D modeling.



Dan’s experience includes collecting and obtaining existing mapping and data sources and molding them into a usable GIS format through supporting databases. Dan is also well versed in ArcGIS, AutoCAD, and Microstation, and has extensive experience using GIS systems to create water models and allocate water system demands accurately across the water model. Dan’s public experience as a County Planner and GIS Specialist has strengthened his familiarity with public databases, data sharing, and implementation of GIS systems. His private experience as a consultant and GIS analyst provides familiarity and practical application of GIS capabilities, including geodatabase design and creation, training and support, and Cityworks implementation.

Integrated, Corporate-Wide Scheduling Program Proves Availability of Staff

We understand the WCID desires a consultant whose team has ample availability to complete its projects efficiently and effectively. Because we have a customized, integrated staff scheduling program for all our employees, we can provide demonstrable proof that our team will be able to complete the WCID’s projects.

Statement of Availability

The personnel on the proposed project team have time available in their schedules to assist the WCID. If awarded the contract, and once a project is fully defined, we will input project hours into our scheduling program to dedicate the time necessary to the schedules of each project team member. Once assigned, the personnel on the project will not change.

About Our Scheduling Program

Our customized staff scheduling program helps determine staff availability relative to project deadlines. The program contains all currently scheduled hours for all employees up to 2 years from the present date. Project Managers can run reports to determine how many total hours are scheduled for a staff member and which projects they are assigned to in any given month. This program is also integrated with our accounting system to facilitate billing.

At the start of every project, the Project Manager enters the associated hours assigned for each staff member each month. All projects in the scheduling program are updated monthly and staff availability is reviewed at that time to distribute workload appropriately among employees. We can then confirm that ample time is available for staff to meet project deadlines.



Team’s percentage of availability leads to responsive service.



By utilizing our integrated scheduling program to project current staff workload and upcoming project deadlines, we can determine if completing tasks or meeting deadlines for any specific project may become an issue. We can then reallocate internal efforts and resources, as necessary, before an issue develops.

We are confident the availability of our team is more than sufficient to meet the WCID's project schedule, as substantiated by the accompanying graph.

Project Experience

Expertise and Experience with Relevant Projects Instill Confidence in Successful Projects for the Travis County WCID – Point Venture

Our team has worked together to complete many similar projects, several of which are described below. Following these project descriptions, we have included tables that demonstrate our experience with water storage and GIS projects, as well as an overview of our water and wastewater experience in general. These tables include our most recent projects. We can provide additional project examples upon request.

“Strand has shown a distinct ability to be cognizant of different aspects throughout a project, whether it be communication, problem solving, economic impact, etc.”

– **City of Richwood, Texas (Clif Custer)**

WATER STORAGE PROJECT EXPERIENCE

ARPA CLFRF New Elevated Storage Tank – Cleveland, TX

This project consists of a new 500,000-gallon steel, multi-legged EST to be constructed to provide water supply to a new elementary and middle school on the northwest side of the city. Additionally, this project includes new 12-inch water piping, an altitude valve system, and a mixing system to prevent stagnant water. We performed design and construction-phase services on a tight timeline due to the school needing this tower to open in the fall of 2022. A water model was prepared to verify adequate supply and distribution consumptions during fire flow and peak demand situations. This tank will assist the rest of the city with pressure issues and production.



New EST – Cleveland.

Reference:
Robert Meadows
Utilities
Superintendent
281-592-2667

Atlow Elevated Storage Tank Rehabilitation – Brenham, TX

The rehabilitation of the Atlow EST consisted of removal and replacement of the existing interior and exterior coating systems on the 300,000-gallon pedestal elevated water storage tank. The project also included several miscellaneous structural repairs, including replacement of the fill pipe, all the exterior and interior ladder safety climb devices, replacement of the double obstruction light, replacement of the roof vent screen, and replacement of all manway gaskets. The EST is located within 500 feet of public areas and residences, therefore, control of emissions from sandblasting was required.

Reference:
Dane Rau
Public Works Director
979-337-7407

2018 TxCDBG Wolters Avenue Ground Storage Tank – Schulenburg, TX

We provided design- and construction-phase services for a new 300,000-gallon prestressed concrete ground storage tank (GST) with a new fiberglass aerator placed on the roof of the tank structure. The project included tying in two different raw water well lines, rerouting the chlorine line and electrical line, and demolition of the existing tank.

This tank was constructed on the City’s main existing water plant site in the center of town. The existing concrete GST remained in service to provide the city with adequate water capacity until the new one was constructed. The project was completed in September 2020.



Wolters Avenue GST – Schulenburg.

Reference:
Tami Walker
City Administrator
979-743-4126

Caldwell Street Water Storage Facility – Giddings, TX

We provided design- and construction-phase engineering services for construction of a new 500,000-gallon GST, rehabilitation of a 200,000-gallon, multi-legged-style EST, and construction of a new booster pumping station with standby generator at the Caldwell Street Water Plant in Giddings. Repairs to the EST included sandblasting and recoating the interior and exterior of the tank and miscellaneous structural repairs. Because of the proximity of residences and public areas, emission control measures were required.

Reference:
Spencer Schneider
City Manager
979-540-2710



Caldwell Street water storage tank – Giddings.

Rosewood Booster Pumping Station, Water Well, and Ground Storage Tank Rehabilitation – Dayton, TX

For this three-part project, we provided design- and construction-phase services for a pump building (including pumps and piping), chlorination building, generator relocation, wellhead and yard piping, and electrical, along with minor demolition and various site improvements.

Reference:
Kimberly Judge
City Manager
936-258-2642

The project also included a 16-inch waterline from the new pumping station facilities to the existing distribution system and a gravity sanitary sewer line and appurtenances along Rosewood Street. In addition, this project included drilling a new 2,500-gpm water well and plugging the existing well.

We also provided design- and construction-phase engineering services for complete rehabilitation of an existing 1 MGD ground storage water tank, including removal (sandblasting) and application of a new protective coating system on the interior and exterior of the tank. Improvements also included upgrading the existing overflow capacity to accommodate a new water well that would be pumping to the existing tank, relocating the tank fill line to accommodate the new water well, and upgrading other miscellaneous tank components.



Rosewood Street pumping station – City of Dayton.

Interstate 10 Elevated Storage Tank Rehabilitation – Schulenburg, TX

The rehabilitation of the Interstate 10 elevated water storage tank (EST) consisted of removal and replacement of existing interior and exterior coating systems on the 300,000-gallon elevated water storage tank. There are two different pumping stations in the upper pressure plane, so variable frequency drives were installed on each pumping station booster pump to maintain adequate pressure in the upper pressure plane. The EST is located along Lloyd Lane just south of Interstate 10 on the west side of town. Being that it is close to the interstate and residences, control of emissions from sandblasting and during painting was required.

Reference:
Tami Walker
City Administrator
979-743-4126



Interstate 10 EST rehabilitation – Schulenburg.

The project also included several miscellaneous structural repairs, such as replacement of the roof vent and a couple of hatches, conduit, and wires to the double obstruction light; replacement of the double obstruction light; and repair to the splash box on the ground. This tank was constructed in 1996, and this was the first time that it has been recoated.

The logos were placed on the east and west sides of the tank to attract visitors off Interstate 10. The new logo was designed by the Chamber of Commerce and is the motto for the City. The project was completed in early 2021.

Ground Storage Tank at Well No. 9 – Schulenburg, TX

After recoating the interior of the existing bolted, galvanized steel GST a few years before, it was clear that a replacement tank would be needed soon. We worked with the City of Schulenburg and the Texas Community Development Block Grant program to secure funding for a new 200,000-gallon, welded steel GST.

Reference:
Tami Walker
City Administrator
979-743-4126



GST at Well No. 9 – Schulenburg.

The new tank was constructed adjacent to the existing tank and aerator tower, allowing the existing tank to remain in service and avoid interruption to the City’s water service. During construction, it was discovered that the existing piping from the aerator tower to the existing tank had shifted because of expansive soils and shifts in both the tank and tower. To correct this, we provided design of all new piping, valves, and fittings and pipe supports to replace the existing piping, and a tie into the new GST that allows for some movement in the structures in the future. The project was completed 2 months ahead of schedule.

GIS PROJECT EXPERIENCE

Geographic Information System (GIS) Implementation and Website – Hearne, TX

In 2017, the City hired us to work with multiple departments within the City to create a comprehensive GIS program. We worked with City staff including members from Administration, Streets, Water, Sewer, and Electric Departments. Existing data and base mapping provided by the City was converted from CAD and incorporated into a new geodatabase.

After the initial data was compiled and entered in the GIS, we assisted the City in prioritizing what additional data needed to be collected and incorporated. We worked further with the City to incorporate custom attribute information to make daily tasks more efficient.

Finally, we created a custom GIS web application to enable users to efficiently use the site while in the office or the field. We continue to provide training and support, as requested by City staff, to complement the newly implemented GIS.



Hearne GIS showing zoning.

Reference:
Bill Duckworth
 Public Works Director
 979-279-3461

GIS Implementation and Website – Splendora, TX

This project included conversion of the City’s mapping, including city limits, extra-territorial jurisdiction, zoning, streets, parcels, and utilities (water, sewer, and natural gas), from AutoCAD to ArcGIS. Record Drawings for major utility infrastructure components, including water treatment plants and sanitary lift stations were scanned and geo-linked to the GIS shapefiles for that infrastructure for ease of future reference. The GIS database may be hosted online at some point in the future, but at this time, we are maintaining it offline, with updates being provided to the City on a quarterly basis.



Splendora GIS desktop application.

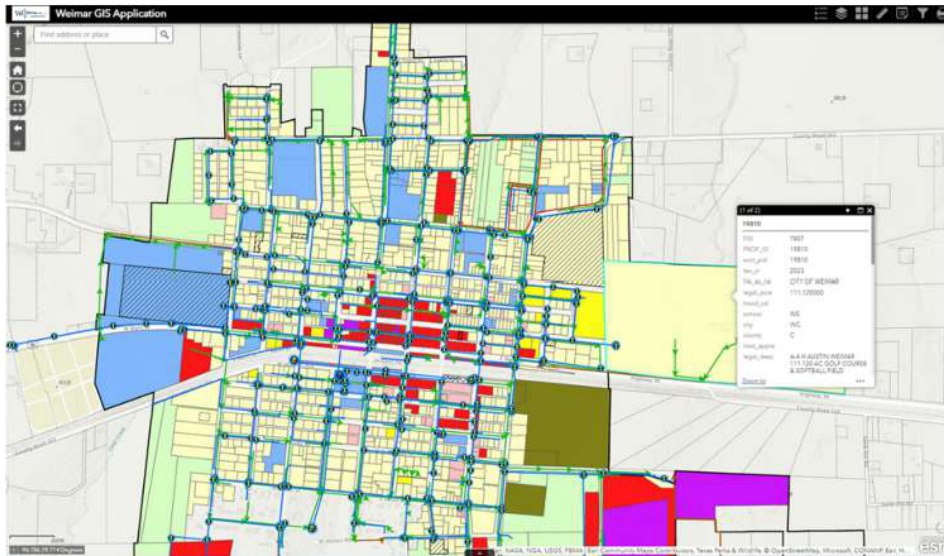
Reference:
Danna Welter
 City Administrator
 281-689-3197

Geographic Information System (GIS) Web Creation – Weimar, TX

The City hired us to create a comprehensive GIS program for its sanitary sewer and water systems. The City’s mapping was outdated, and we assisted the City with mapping services to update its block maps for the sanitary sewer and water systems under a previous project. With the addition of new City staff, the City Manager determined it would be best to combine everything into a single program for editing purposes and to assist in future system issues. Existing data and base mapping provided by the City was converted and incorporated into a new geodatabase. We coordinated with the Colorado County Appraisal District to obtain property information for the GIS.

Reference:
Richard Whitten
 City Manager
 979-725-8554

The City reviewed the GIS after the initial data was compiled and entered into the program. We then trained City staff on the GIS. A follow-up after the training was done to address any additional questions. We will continue to make mapping updates and support new requests by City staff.



Weimar GIS showing existing water, sanitary sewer, zoning, and property information.

Geographic Information System (GIS) Mapping – Central Washington County Water Supply Corporation, TX

The Central Washington County Water Supply Corporation’s (CWCWSC) mapping system was outdated and not easily accessed. CWCWSC knew its data management system was not functional for the long-term operations and maintenance of its water system and sought a comprehensive GIS solution to provide a cohesive system for all staff members.

Reference:
Patric King
General Manager
512-894-3322

Water utility data was extracted from existing AutoCAD mapping. A custom geodatabase scheme was developed to incorporate existing water utility data. Existing record drawings were scanned and loaded into the system for quick and easy access. It was determined that the Esri ArcGIS Online cloud GIS platform would provide the most affordable annual software cost for the CWCWSC. It delivers the map component needed to successfully manage the water system. Our expertise in empowering local governments through easy-to-use interactive GIS apps helped the CWCWSC identify and implement solutions that represented the best value for the organization.

An ArcGIS Online web application was developed to enable the CWCWSC to efficiently share information, deliver improved public service, provide access to information on users’ mobile devices, and make the information easy to find and understand for users who had never previously interacted with GIS.

A common operating picture was achieved across all stakeholders, field to office workflow improved, and access to critical, real-time data is now available in the field, increasing efficiency for both field and office-based staff. CWCWSC staff now use the GIS system as a tool to provide the resources it needs for year-end reporting, tracking maintenance activities, and to access real-time data that improves planning efforts for ongoing and future capital improvement projects.

WATER / WASTEWATER EXPERIENCE

Unique Water Supply Services

ADMINISTRATION

- Utility establishment
- Rate studies
- Agency coordination and permitting
- Intergovernmental and developer agreement review
- Consent order negotiations
- Vulnerability assessments and emergency response plans
- Asset management
- Public relations and public meetings



Public relations support.

SOURCE WATER

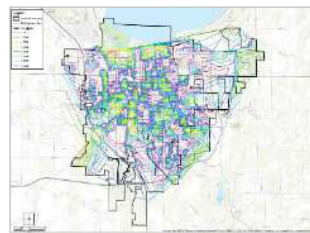
- Well siting studies
- Wellhead protection plans
- Shallow and deep aquifer well design and rehabilitation
- Easements and acquisitions
- Pilot studies
- Well system evaluations and design



Representative well survey video stills: well wall below production zone at 205-foot depth.

DISTRIBUTION SYSTEM EVALUATION AND PLANNING

- Survey and GIS mapping
- Hydraulic evaluations and investigations
- Water model creation and evaluation
- Demand and population forecasting
- Supply and storage capacity review
- Pressure zone evaluation and planning
- Condition assessments
- Pipeline route studies
- Pipeline replacement prioritization plans
- Water model training



Water system model results.

STORAGE FACILITIES

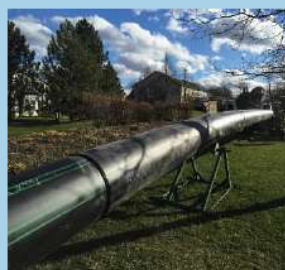
- Inspections
- Planning and design
- Glass lined, cast-in-place concrete, prestressed concrete, composite, steel, waterspheroid design
 - Rehabilitation and repainting
 - Maintenance procurement
 - Code upgrades
 - Life-cycle analysis
- Tank mixing



Church Street elevated water storage tank.

WATER MAIN DESIGN

- Capacity design
- Transmission main design
- Network planning
- Survey, easements, and acquisition
- Material alternative analysis
- Construction method alternative analysis
- Waterway, wetland, highway, railroad, and other challenging crossings
- Cathodic protection



Unique design challenges can be met using trenchless pipe installation.

OPERATION AND MAINTENANCE

- Storage facility inspections and rehabilitation
- Well and pump rehabilitation design
- SCADA system design and upgrades
- Automatic meter reading procurement
- Unidirectional flushing plans

PUMPING FACILITIES

- Siting and permitting
- Hydraulic design
- Architectural design
- Mechanical, electrical, and structural design
- Equipment selection

SUSTAINABILITY

- Pump selection and optimization
- Variable frequency drive (VFD) retrofits
- System-wide energy evaluations
- Automatic meter reading procurement
- Pressure zone evaluation and planning
- Pump efficiency studies
- Comprehensive project delivery

Significant Wastewater Capabilities Provides Confidence

Wastewater engineering has been a core service provided by our firm since the 1940s. We attribute our success to the sound application of engineering principles, leading to well designed and operated wastewater treatment plants (WWTPs) and conveyance facilities, and to the consistent growth and national recognition of our wastewater group. We are consistently ranked among *ENR's Top 25 Wastewater Firms*. In 2024, we were ranked 17th in the country based on WWTP-related billings for services.

We were also ranked 28th in *ENR's Top Sewerage and Solid Water Firms* category.

We have designed and administered the construction of more than 300 WWTPs. We are routinely involved from start to finish on these projects, completing facilities plan development as part of the comprehensive array of wastewater treatment engineering services we offer. To date, we have completed approximately 200 facilities planning projects for facilities of all sizes and communities with various income levels.

Our wastewater areas of specialization are noted below and further described in this section.



Sludge Dewatering	Biosolids Management	Treatment	Treatment (Cont'd)
• Belt filter presses	• Aerobic digestion	• Siting of new/expanded WWTPs	• Chemical treatment
• Centrifuges	• Anaerobic digestion	• Preliminary treatment	• Nitrification/ Denitrification
• Screw presses	• Co-generation	• Biological treatment	• Emerging technology
• Rotary drum thickeners	• Biogas handling	• Biological nutrient removal	• Excess flow management
• Drying beds	• Biogas conditioning	• Filtration	• Industrial pretreatment
• Reed beds	• Biosolids storage	• Lagoon treatment	• SCADA systems

Resumes

Primary Contact

Mark A. Rudolph, P.E.

Secondary Contact

Kelly M. Hajek, P.E.

Project Engineers / Designers / Reviewers

Hollie A. Janecka, P.E.

Ryan D. Tinsley, P.E.

Morgan Ruiz, E.I.T.

Alec S. McAndrew, E.I.T.

Blake E. Faldyn, E.I.T.

GIS Analyst

Daniel A. Carpiaux

Mark A. Rudolph, P.E.

AREAS OF EXPERTISE

- Wastewater Collection and Treatment
- Wastewater Permitting
- Natural Gas Distribution
- Water Storage and Distribution
- Geographic Information Systems (GIS)

PROFESSIONAL EXPERIENCE

Mark joined our firm in July 2018, with a Masters' degree from Texas A&M University. His primary focuses are water, wastewater, and natural gas distribution. Mark has experience with all phases of a project's lifespan, including design services, bid-related services, and construction management.

Water Treatment and Storage experience:

- **Longpoint Water Plant TTHM Aerators, Central Washington County Water Supply Corporation (CWCWSC), Texas** – Currently performing design, bidding, and construction phase services for installation of an aeration system in each water storage standpipe at a rural water plant facility.
- **Water System Evaluation, Chappell Hill Water Supply Corporation, Texas** – Performed a study of water system infrastructure, including storage tanks, booster pumps, and water mains, as well as evaluation of future improvements to the system based on current and future needs identified by CHWSC.
- **Texas Water Development Board (TWDB) Water Plant, New Standpipe, and New Water Well, CWCWSC, Texas** – Performed construction phase services for installation of a new water well, expansion of an existing water plant, and installation of a new standpipe. Coordinated with the TWDB to comply with grant program requirements.
- **Elevated Storage Tank (EST) & GST Rehabilitation, City of Brazoria, Texas** – Performed design, bidding, and construction phase services related to rehabilitation of an 825,000-gallon ground storage tank and 500,000-gallon EST.
- **Rexville Road EST Rehabilitation, City of Sealy, Texas** – Performed design, bidding, and construction phase services related to rehabilitation of a 400,000-gallon EST including coating and electrical work.
- **Water Plant Piping Relocation, Oak Hill Fresh Water Supply District, Texas** – Performed design and construction phase services related to replacement of underground ductile iron site piping at the FWSD's water plant.
- **Brazoria ARPA Water Plant Improvements, City of Brazoria, Texas** – Currently performing design, bidding, and construction phase services for the installation of a prefabricated pump and controls building at the City's water plant.
- **Water Conservation and Drought Contingency Plan Preparation, City of El Campo, Texas** – Preparation of updated WCP and DCP including coordination with the TWDB and TCEQ to meet regulatory requirements.
- **Longpoint and Berlin Water Plant Generators, CWCWSC, Texas** – Currently performing design, bidding, and construction phase services for installation of an emergency backup generator at each water plant facility.

GIS experience:

- **Water and Sanitary Sewer GIS Database Development, City of Luling, Texas** – Currently performing services related to creation of a new GIS database for the City's drinking water and sanitary sewer infrastructure.
- **Web Based GIS Water System Map Development, CWCWSC, Texas** – Performed services relating to preparation and troubleshooting of a web-based GIS map of the WSC's water system. Services included training WSC personnel on day-to-day use of the web-based application.

YEARS OF EXPERIENCE

6

YEARS WITH FIRM

6

EDUCATION

M.E. Civil Engineering – Texas A&M University, 2018

B.S. Petroleum Engineering – Texas A&M University, 2016

REGISTRATION

Professional Engineer in Texas

PROFESSIONAL AFFILIATIONS

Water Environment Association of Texas (WEAT)

Mark A. Rudolph, P.E.

Wastewater Treatment Plant (WWTP) experience:

- **GLO WWTP Rehabilitation, City of Brazoria, Texas** – Currently performing design, bidding, and construction phase services for this project, which consists of rehabilitation measures at the City’s WWTP. Including replacement of clarifiers, aerators, influent and RAS pumps, the MCC, and installation of a new mechanical screen. This project is currently in the bidding phase and started construction in early 2024.
- **ARPA WWTP Improvements, City of Brenham, Texas** – Currently performing design, bidding, and construction phase services for improvements to the City’s WWTP, including rehabilitation of a decommissioned treatment unit and blowers, and conversion of a chlorine disinfection system to ultraviolet (UV) disinfection.
- **WWTP Improvements, City of El Campo, Texas** – Currently performing design, bidding, and construction phase services for this project, including improvements to the plant’s aeration system, installation of a new belt filter press, and replacement of the effluent weir and old aeration piping.
- **Various WWTP Permit Amendments and Renewals, Texas** – Prepared and submitted applications to the TCEQ to renew/amend permits for over 20 facilities across the State of Texas. Permits include TPDES discharge permits, sludge permits, and stormwater permits for WWTP facilities.
- **North and South WWTP Sludge Dewatering Study, City of Luling, Texas** – Currently performing an evaluation of multiple equipment alternatives to replace the current sludge drying beds at two WWTPs. The study also includes evaluation of a new reclaimed water system for the City’s South WWTP.
- **UV Disinfection Study, City of Brenham, Texas** – Performed evaluation for replacement of City’s current chlorine disinfection system at the WWTP with a UV disinfection system.

Wastewater Collection System experience:

- **ARPA Sanitary Sewer and Lift Station Improvements, City of Sealy, Texas** – Currently performing design, bidding, and construction phase services for rehabilitation of a 1200-gpm rated sanitary sewer lift

station and replacement of approximately 2,700 LF of gravity and force mains.

- **CDBG Force Main Extension, City of Brazoria, Texas** – Performed design, bidding, and construction phase services related to installation of approximately 3,000 LF of 8-inch sanitary sewer force main by open cut.
- **CDBG Sewer Replacements, City of Brazoria, Texas** – Performed design, bidding, and construction phase services related to installation of approximately 3,700 LF of 6- to 8-inch PVC gravity sewer main.
- **GLO CDBG-MIT Hurricane Harvey Street, Drainage, Sanitary Sewer, and Lift Station Improvements, City of Caldwell, Texas** – Currently performing design, bidding, and construction phase services for street reconstruction, installation of box culverts and other drainage improvements, installation of approximately 4,800 LF of sanitary sewer main replacements, and installation of a new sanitary sewer lift station. This project is currently in the design phase and is anticipated to start construction in 2024.
- **Highway 36 Sewer Extension, City of Sealy, Texas** – Currently performing design, bidding, and construction phase services related to installation of a new lift station and approximately 5,700 LF of sanitary sewer gravity and force mains.

Water Distribution System experience:

- **Rosenberg ARPA Waterline Improvements, City of Rosenberg, Texas** – Currently performing design, bidding, and construction phase services for the installation of approximately 8,000 LF of PVC water main.
- **Downtown Watermain Replacements, City of Sealy, Texas** – Performed design, bidding, and construction phase services for replacement of approximately 10,000 LF of PVC water main including street restoration.
- **Water Main Replacements, City of Brenham, Texas** – Performed design, bidding, and construction phase services related to installation of approximately 11,000 LF of 6- and 8-inch PVC water main.

Kelly M. Hajek, P.E.

AREAS OF EXPERTISE

- Federally Funded Projects
- Utility Relocation Design and Coordination
- Sanitary Sewers and Wastewater
- Water Supply and Treatment
- Generators
- Streets
- Water Storage Tanks
- Stormwater Drainage
- Construction Management

PROFESSIONAL EXPERIENCE

Kelly joined O'Malley Engineers (now Strand Associates, Inc.®) in October 2006. O'Malley Engineers was acquired by Strand Associates, Inc.® in 2015.

Kelly has performed deed research, construction inspection, drafting, estimating, and engineering design. Kelly works on projects throughout all phases of work, including bid, design, construction management, and project management. She has performed engineering design for water distribution, sanitary sewer collection, paving and drainage and commercial and educational land development projects.

Her current duties consist of engineering design and construction management and project management. Kelly has worked with many governmental agencies, including Cities, Counties, the Texas General Land Office (GLO), Texas Department of Transportation (TxDOT), and the Texas Commission of Environmental Quality (TCEQ).

Water Supply and Treatment experience:

- **Surface Water Treatment Plant Rehabilitation and Expansion, Brenham, Texas** – Project Manager for the design, bid, and construction of the City's Surface Water Treatment Plant (WTP). The project includes the expansion of the low lift pump station; rapid mix following the injection of coagulants and polymers; addition of tube settlers to the existing clarifiers; new solids contact basin; rehabilitation of the four existing filters basins; addition of two new filters' addition of transfer pumps; addition of high service pumps; chemical feed modifications; a new standby generator; and SCADA system improvements. This project is currently in preliminary design and is anticipated to bid in the spring of 2025. The project is anticipated to be completed by late 2027.

- **Water System Evaluation, Chappell Hill Water Supply Corporation (CHWSC), Texas** – Served as the project engineer for a study of water system infrastructure, including storage tanks, booster pumps, and water mains, as well as evaluation of future improvements to the system based on current and future needs identified by CHWSC.
- **Water Supply and Treatment Expansion Plan, Brenham, Texas** – Project Manager for a study of the City's water supply and treatment facilities to assist the City in preparing for unprecedented growth. The study assessed population projections and water demands for the years 2042, 2062, and 2082. We also evaluated portions of the facility that required rehabilitation and the best way to expand the facility at the existing site. The study also included evaluation of groundwater within the City, near the Lake, and near Chappel Hill by a groundwater hydrologist. Based on the cost opinions for a second raw water main and the groundwater study, the City decided to further evaluate a second supply via groundwater. This evaluation looked at four alternatives for supply and treatment. Two of the alternatives centered around groundwater wells with treatment that would tie into the water distribution system. The other two alternatives assessed expansion of the WTP to 8.35 MGD via conventional treatment methods or a combination of low- and high-pressure membrane filtration combined with conventional treatment methods.
- **Tram Road Booster Pumping Station, City of Dayton, Texas** – Design phase services for a booster pumping station, including a new ground storage tank (GST), and rehabilitating the existing water well. Project design is complete, but the City has put construction on hold.

YEARS OF EXPERIENCE

20

YEARS WITH FIRM

17

EDUCATION

B.S. Civil Engineering – Texas A&M University, 2004

REGISTRATION

Professional Engineer in Texas

PROFESSIONAL AFFILIATIONS

- Texas Society of Professional Engineers
- Chi Epsilon (Civil Engineering Honor Society)
- Tau Beta Pi (Engineering Honor Society)
- Water Environment Association of Texas (WEAT)

Kelly M. Hajek, P.E.



- **Rosewood Booster Pumping Station and Water Well, City of Dayton, Texas** – Construction-phase services for the construction of a new booster pumping station and new water well.
- **Groundwater Supply Phase I, Brenham, Texas** – Project Manager for design- and construction-phase services for the rehabilitation and testing of an existing water well in the Jasper Aquifer. The project also includes the construction of a new well in the Catahoula Aquifer on the same site. The project will conclude with a blending study to determine treatment required to blend the well water with the City's existing distribution system, that is supplied by treated surface water, before moving into Phase II. Phase II will include design and construction of groundwater treatment facilities.
- **Surface Water Treatment Plant Rehabilitation, City of Brenham, Texas** – Project Manager for the rehabilitation of the City's Surface Water Treatment Plant. This project included two separate phases. The first phase was to rehabilitate the three clarifiers including replacement of the mechanisms and portions of the catwalks and handrails. The second phase of the project included recoating several of the tanks (including the clarifiers) located at the surface water treatment plant.
- **TxCDBG Water Tank Rehabilitation, City of Daisetta, Texas** – Project Manager for the rehabilitation of a 100,000-gallon elevated water storage tank and a 125,000-gallon, bolted galvanized steel ground water storage tank. The project consisted of miscellaneous structural repairs and interior and exterior recoating of the elevated tank and interior coating of the GST with a 100 percent solids elastomeric polyurethane coating system.
- **Atlow Elevated Storage Tank (EST) Rehabilitation, City of Brenham, Texas** – Project Manager for the rehabilitation of a 300,000-gallon pedestal EST. Rehabilitation consisted of interior and exterior recoating and miscellaneous repairs.
- **Rexville Road EST Rehabilitation, City of Sealy, Texas** – Project Manager for the rehabilitation of a 400,000-gallon spheroid EST. Rehabilitation consisted of interior and exterior recoating and miscellaneous repairs.
- **Ward Bend Ground Storage Tank Rehabilitation, City of Sealy, Texas** – Design and construction phase management for rehabilitating one welded steel ground water storage tank. Rehabilitation consisted of interior and exterior recoating a 200,000-gallon ground level water storage tank and miscellaneous repairs.
- **New Peach Street Ground Storage Tank, City of Sweeny, Texas** – Design and construction management for dismantling and removing an existing 426,000-gallon bolted galvanized steel ground level water storage tank and constructing a new 426,000-gallon bolted galvanized steel GST, utilizing the existing concrete ring wall portion of the foundation.
- **Peach Street EST and GST Rehabilitation, City of Sweeny, Texas** – Design and construction phase services for the rehabilitation of a 75,000-gallon EST and a 426,000-gallon GST. The rehabilitation of the EST included miscellaneous structural repairs and interior and exterior recoating. The bolted galvanized steel GST rehabilitation consisted of miscellaneous structural repairs, including numerous repairs to the tank floor, and application of a 100 percent solids elastomeric polyurethane coating system to the interior of the tank.

Water Storage Tank experience:

- **2019 Texas Community Development Block Grant (TxCDBG) Water System Water Storage and Generator Improvements, City of Snook, Texas** – Design, bid-, and construction-related services for a new 50,000-gallon bolted galvanized steel ground water storage tank and a standby emergency generator at the City's water plant.
- **TxCDBG Church Street Elevated Storage Water Storage Tank Rehabilitation, City of Brenham, Texas** – Project Manager for the removal and replacement of the existing interior and exterior coating systems on the 300,000-gallon elevated water storage tank. The project included several miscellaneous structural repairs and is located within 500 feet of public areas and residences, therefore, control of emissions from sandblasting was required.

Hollie A. Janecka, P.E.

AREAS OF EXPERTISE

- Utility Engineering
- Stormwater Analysis
- Land Development
- Federally Funded Projects
- Construction Management
- Water Storage Tanks

PROFESSIONAL EXPERIENCE

Hollie joined Strand Associates, Inc.® in 2016, and has performed various engineering tasks, including design services, construction inspection, drafting, estimating, and construction management. She has been involved throughout all phases of work, including design, bid, construction management, and project management. Hollie has performed engineering design for water supply and distribution, sanitary sewer collection, storm sewer, water main, site layout and grading, and roadway construction. She has engineering design experience using AutoCAD Civil 3D, StormCAD, SewerCAD, and GIS software to create and modify construction drawing. She has worked with many governmental agencies, including Cities, Counties, the Texas General Land Office (GLO), TxDOT, and the TCEQ.

Water Supply experience:

- **12-Inch Waterline Improvements, City of Cleveland, Texas** – Project consists of installing approximately 2,200 LF of 12-inch water distribution line along Birch Street and James Avenue to replace older lines and provide adequate water pressure to the northwest area of the City. The work includes several tie-ins to existing waterlines, fire hydrant installations, service connections, abandonment of existing waterlines and related appurtenances. The project went to the bidding phase and began construction in spring 2023.
- **Elevated Storage Tank (EST) Rehabilitation, City of Liberty, Texas** – Blast and recoating of an existing 200,000-, 300,000-, and 65,000-gallon ESTs. Project includes replacement of ladders, water level indicators, electrical lighting, wiring, and miscellaneous steel repairs. This project was completed in 2024.
- **Highway 90 Waterline Improvements, City of Liberty, Texas** – Project consists of installing approximately 2,200 LF of 8-inch water distribution line along Highway 90 which will replace a damaged water main. The work includes several tie-ins to existing waterlines, fire hydrant installations, service connections, abandonment of existing waterlines and related appurtenances. The project was previously in the design stage and started construction in spring 2023.
- **ARPA College Street EST Rehabilitation, City of Weimar, Texas** – Blast and recoating of an existing 75,000-gallon EST. Project included a new vent, riser pipe, ladders, manway, overflow pipe, and miscellaneous steel repairs. This tank is known as a City “landmark” that the City is bringing back into service.
- **ARPA 2021 CLFRF New EST, City of Cleveland, Texas** – Design and construction phase services for a new 500,000-gallon steel multilegged EST to provide water supply to a new elementary and middle school on the northwest side of the City. A water model verified adequate supply and distribution consumptions during fire flow and peak demand situations. This project included new 12-inch water piping, an altitude valve system, a mixing system to prevent stagnant water, site grading and an asphalt driveway.
- **Atlow EST Rehabilitation, City of Brenham, Texas** – Blast and recoating of an existing 300,000-gallon EST. Project included replacement of the obstruction light, roof vent, all safety climb devices on the ladders, and gaskets.
- **2020 TxCDBG Highway 36 EST Rehabilitation, City of Somerville, Texas** – Blast and recoating of an existing 150,000-gallon pedestal EST. Project

YEARS OF EXPERIENCE

8

YEARS WITH FIRM

8

EDUCATION

B.S. Civil Engineering
Texas A&M University, 2016

REGISTRATION

Professional Engineer in
Texas

PROFESSIONAL AFFILIATIONS

- Texas Society of Professional Engineers

Hollie A. Janecka, P.E.



included replacement of the roof vent, interior ladder, probes, and lighting. There is also some electrical work being done to improve communication of their radio system to send appropriate signals back to the water plant. This will avoid future complications and overflow of the tank.

- **Eagle Street EST Rehabilitation, City of Weimar, Texas** – Blast and recoating of an existing 300,000-gallon multilegged EST. Project included replacement of the roof vent, all exterior and interior ladders, double obstruction light, and other appurtenances. An aesthetic portion of this project will be the exterior lighting on the balcony when finished. This lighting will be user-controlled multicolored and shining on the tank logo.
- **2020 TxCDBG Henderson Hill Ground Storage Tank, City of Schulenburg** – Design-phase services for a new 200,000-gallon welded steel ground storage tank with a new fiberglass aerator on a support structure located next to the tank. Project included tying in two different raw water well lines, rerouting the chlorine line and electrical line, and demolition of the existing tank. This new tank was constructed in the same location as the existing ground storage tank, thus demolition of the existing tank and the necessary backfill was needed before any new construction could begin.
- **GLO CDBG-DR 14-inch Waterline, City of La Grange, Texas** – Project consists of about a mile of new 14-inch waterline travelling from an existing pumping station to an existing EST that will tie-in water services, replace existing smaller lines, and provide adequate pressure and capacity for La Grange’s water system. Flooding from Hurricane Harvey caused the water well along the route to go out of service and significantly diminished water service in La Grange.
- **I-10 EST Rehabilitation, City of Schulenburg, Texas** – Design and construction-phase services for the blasting and recoating of an existing 300,000-gallon EST. The project included replacement of several hatches, the vent, safety climb devices, and the overflow weir. The project finished construction in March 2021.
- **Water Master Plan, South Cleveland Water Supply Corporation, Cleveland, Texas** – Modeled the Corporation’s water system via WaterGEMS and studied the system’s existing capacity. Inserted future development into the model to show problem areas and developed a 20-year plan to help future expansion.
- **2017 USDA-RD Distribution Improvements, Tarkington Special Utility District, Tarkington, Texas** – Construction-phase services for installation of two new 150,000-gallon ESTs, pump station improvements from the two tanks, and replacement and new installation of waterline to serve the community. This project consisted of corresponding with TxDOT to get the lines and new connections constructed properly. It also corresponded with three different contractors that needed to work together to get the system operating efficiently. This required good communication throughout the year-long construction duration.
- **Water Quality Study, City of Weimar, Texas** – Analyzed the City’s water system to evaluate its red water issue. After studying the water samples and becoming familiar with the City’s system, we wrote a report with recommendations to reduce redness.
- **Comprehensive Water Study, City of Schulenburg, Texas** – Analyzed the City’s water capacity and distribution system via Water GEMS and came up with a 30-year plan to help the future expansion of the City. This included lots of correspondence with the City to understand its system.
- **2018 Elevated Tank Rehabilitation – Tarkington Special Utility District, Texas** – Design and construction-phase services for the rehabilitation and recoating of two 100,000-gallon ESTs. This project also included replacement of hatches and removal of some equipment.
- with PVC pipe and the addition of new services along a heavily travelled roadway.
- **2016 TxCDBG Church Street EST Rehabilitation, City of Brenham, Texas** – Design and construction phase services for the rehabilitation and recoating of one 300,000-gallon EST that contained a lead paint exterior. This project also included replacement of hatches and conduit to have a fully operational system.

Ryan D. Tinsley, P.E., ENV SP

AREAS OF EXPERTISE

- Water Conveyance and Production
- Wastewater Collection and Treatment
- Flood Pumping and Protection
- Roadway, Streetscape and Trails
- Bridge and Culvert Replacements
- Land Acquisition

PROFESSIONAL EXPERIENCE

Ryan serves as the Director of Operations for our Brenham office, responsible for developing staff and providing technical oversight on a variety of projects. Ryan is also the Discipline Coordinator for the Brenham office's Municipal, Stormwater, Pumping-Conveyance, and Transportation group. Ryan oversees the group's efforts on projects ranging from smaller utility replacements to larger transportation projects.

Water Conveyance and Production experience includes waterlines and transmission mains up to 42 inches in diameter and totaling over 150 miles in length, booster pumping stations up to 30 MGD, water storage tanks up to 3 million gallons, and groundwater wells.

- **Impact Fee Studies, Utility Master Plans, Capital Improvement Plans, and Preliminary Engineering Studies, Texas** – Project Manager for plans prepared for the Cities of Brenham, Hearne, Richwood, Sealy, and Splendora, and QC Engineer for plans prepared for the Cities of Hempstead and Magnolia, and the South Cleveland Water Supply Corporation.
- **Downtown Water Well and Raw Water Main, City of Sealy, Texas** – Project Manager for the design and construction of a 1,500-gpm water well with 2,000 linear feet (LF) of 10-inch raw water main connecting the well site to the Silliman Road Water Plant to improve water supply and redundancy within the City's water distribution system.
- **Rexville Road Water Plant, City of Sealy, Texas** – Project Manager for the design and construction of a 1,500-gpm water well, a 500,000-gallon ground storage tank, and a booster pumping station to improve water supply and redundancy within the City's water distribution system.
- **North Water Plant, City of Richwood, Texas** – Project Manager for a \$4M project to construct a 600-gpm water well, a 350,000-gallon ground storage tank, a 1,500-gpm booster pumping station, and 5,980 LF of 12-, 8-, and 6-inch water main extensions to improve both water supply and water pressures within the northern parts of the City's distribution system.
- **FY2019 Water Main Replacements, City of Brenham, Texas** – Project Manager for the installation of 11,365 LF of 8-, 6-, and 4-inch water main to upsize and replace the City's aging cast iron and asbestos cement water mains. Replacements were primarily located under streets in downtown Brenham and throughout Blinn College.
- **Downtown Water Main Replacement, City of Sealy, Texas** – Project Manager for a \$2.6M project to install 11,360 LF of 12-, 8-, 6-, and 4-inch water main to upsize and replace the City's aging water mains on Main Street, Silliman Street, and Fowlkes Street. Replacements also included bores under three different railroads and two TxDOT highways.
- **Sunrise Water Transmission Main Rehabilitation and Booster Pumping Station Replacement, City of Portsmouth, Ohio** – Project Manager for this project to rehabilitate 5,240 LF of 30-inch cast iron main that is nearly 100 years old. The transmission main conveys potable water from the water plant to the 20.75 MGD Sunrise Reservoir. The project slip-lined the cast iron main with 3,950 LF of 24-inch HDPE pipe with the remaining sections replaced with 24-inch ductile iron pipe. The existing Sunrise Booster Pumping Station was also replaced with a prepackaged booster pumping station.
- **Northern Division Connection, Phases 1, 2 and 3, Kentucky-American Water, Kentucky** – Project Manager for a \$14M project to construct 84,100 LF of 16-inch water transmission main, 20,300 LF of

YEARS OF EXPERIENCE

22

YEARS WITH FIRM

19

EDUCATION

B.S. Civil Engineering – University of Louisville, Kentucky, 2004

M. Eng. Civil Engineering – Structural Emphasis, University of Louisville, Kentucky, 2005

REGISTRATION

Professional Engineer in Kentucky and Texas

CERTIFICATIONS

Envision Sustainability Professional

Ryan D. Tinsley, P.E., ENV SP

6-inch water main extensions, a 2 MGD pre-packaged booster pumping station, a 600,000-gallon elevated water storage tank with mixing system, a 300,000-gallon elevated water storage tank with an altitude valve, and four pressure reducing valves.

Wastewater Collection and Treatment

experience includes over 50 miles of gravity sewers and force mains up to 30 inches in diameter, pumping stations up to 20 MGD, and WWTP upgrades.

- **Baker Katz Development Sanitary Sewer Improvements, City of Brenham, Texas** – Project Manager for a \$1.1M project to construct 6,900 LF of 12-, 10-, and 8-inch gravity sanitary sewer, 2,720 LF of 6-inch force main, three aerial creek crossings, a new 380 gpm lift station (900-gpm ultimate capacity), and an emergency generator. The project was constructed across a City-owned park property to serve a proposed commercial development, future residential development, and the Brenham State Supported Living Center.
- **Stone Hollow Lift Station Replacement, City of Brenham, Texas** – Project Manager for a \$2.1M project to construct 1,600 LF of 16-inch, 15-inch, and 8-inch gravity sanitary sewer, 1,950 LF of 12-inch force main, an aerial creek crossing, and a new 1,590 gpm triplex lift station. The project was constructed in heavily developed residential and commercial areas.
- **Jeffersontown Force Main, Louisville-Jefferson County Metropolitan Sewer District, Kentucky** – Project Manager for a \$6M project that consisted of 27,000-LF of 24-inch force main, 14 combination air valve assemblies, three state highway bores, one railroad bore, and 52 easements. The force main was constructed through heavily developed residential and commercial areas.
- **Nolin River Watershed Sewer Infrastructure, Hardin County Water District No. 2, Kentucky** – Construction Services Coordinator for this project to sewer the Nolin River Watershed, including the historic Town of Glendale and a planned 1,550-acre industrial development park. The project installed nearly 140,000 LF of

gravity sewers and force mains, four regional pumping stations, 16 stream crossings, two railroad bores, and 30 road crossings (including a bore under I-65) to convey flows to a regional WWTP just south of Elizabethtown.

- **Roberts Drive and Sixth Street Pump Station Improvements, City of Ashland, Kentucky** – Lead Design Engineer for the replacement of the Sixth Street Pump Station and force main improvements. This \$7M construction project consisted of the replacement of two sanitary pumping stations (totaling 1,500 HP) with variable frequency drives to provide a 20 MGD total pumping capacity. Additionally, 3-miles of 20-inch and 30-inch force main was constructed through heavily developed residential and commercial areas.

Flood Pumping and Protection experience includes planning and construction-related services for flood pumping stations ranging from 51 to 4,155 MGD in pumping capacity for the Louisville Metropolitan Sewer District.

- **20-Year Comprehensive Facilities Plan, Louisville-Jefferson County Metropolitan Sewer District, Kentucky** – Technical lead and writer for the flood protection volume of the plan, evaluating each of MSD's 16 flood pumping stations for needed reliability, capacity, and electrical redundancy improvements. The evaluation considered current level of service, rainfall atlas updates, level of development, increased frequency of extreme storms, and secondary power alternatives. The evaluation recommended 34 projects and annual allocations totaling over \$466M to improve the reliability and capacity of MSD's flood pumping stations, floodwalls, and levees.

AWARDS AND HONORS

- American Society of Civil Engineers
 - Distinguished Service Award, 2019
 - KY Young Engineer of the Year, 2014
 - KY Young Engineer of the Year, 2012

Morgan E. Ruiz, E.I.T.

AREAS OF EXPERTISE

- Water Supply and Distribution
- Utility Engineering
- Water Wells
- TCEQ Compliance

PROFESSIONAL EXPERIENCE

Morgan joined our firm in November 2019. She has been involved in design, bidding, and construction management services for water, wastewater, and municipal projects.

Water Supply and Distribution experience:

- **ARPA Water Improvements, City of El Campo, Texas** – Project Designer for the construction of a 1,000-gpm water well, ground storage tank (GST), and 7,500 linear feet (LF) of water main. These components replaced outdated and undersized water infrastructure.
- **TWDB Water Plant, City of Woodbranch Village, Texas** – Oversaw construction of a new GST and booster pumping station. Coordinated with TWDB and provided monthly required documents to the funding agency.
- **North Water Plant, City of Richwood, Texas** – Project Designer for the construction of a 600-gpm water well, 350,000-gallon GST, booster pumping station, chlorine building, diesel generator, and water main extensions to improve water supply and water pressure in the northern part of the City's water distribution system. These improvements also increased the City's overall water capacity to keep up with TCEQ's requirements for the growing community.
- **TxCDBG Water Storage Tank, City of Snook, Texas** – Installed a 53,000-gallon bolted steel GST to replace an undersized and outdated tank and a liquid propane generator was installed as a backup power source.
- **Water Well Consultation, City of Sweeny, Texas** – Assisted the City with water softener analysis corrosion study, administrative documentation, and other items required to obtain TCEQ approval to put existing well back into service.

- **Waterline Improvements, City of Sweeny, Texas** – Design- and construction- related services for the installation of 32,310 LF of 6-, 8-, 10-, and 12- inch water main to upsize and replace the City's aging system.
- **CDBG-DR Walnut Drive Water Improvements, City of Richwood, Texas** – Replaced 1,530 LF of 6- and 8- inch water main. Replaced waterline on Cedar Drive to install gate valves needed for maintenance on street. TxDOT permitting for tie-ins within the TxDOT right-of-way.
- **Downtown Water Well, City of Sealy, Texas** – Design- and construction-related services to construct a 1,000-gpm water well and 2,000 LF raw water main. The raw water main transported the well water to an existing booster pumping station.
- **Rexville Road Water Plant, City of Sealy, Texas** – Design- and construction-related services to construct a 1,000-gpm well, 500,00-gallon GST, and pre-packaged booster pumping station. The well is anticipated to begin construction in mid-2024 and other plant components in mid-2025.

Wastewater experience:

- **GLO CDBG-MIT Sanitary Sewer Improvements, City of Sweeny, Texas** – Design, bid, and construction phase services for sanitary sewer improvements throughout the city. These improvements include replacement of the City's trunk sewer line, installation of lift station generators, and flood protection for the City's WWTP. This project is currently in the design stage and is anticipated to start construction in early 2024.
- **CDBG-DR Pipe-Bursting, City of Richwood, Texas** – Project consisted of pipe bursting 2,900 LF of clay sanitary sewer lines in residential areas and

YEARS OF EXPERIENCE

4

YEARS WITH FIRM

4

EDUCATION

B.S. Civil Engineering,
Iowa State University,
Ames, Iowa, 2019

REGISTRATION

Engineer-in-Training

Morgan E. Ruiz, E.I.T.



replacing 12 manholes with precast concrete manholes.

- **Sanitary Sewer Replacement, City of Richwood, Texas** – Sanitary sewer replacement and manhole installation. Additional manhole needed to realign sewer slope to TCEQ compliance.

Municipal experience:

- **CDBG-DR Street Rehabilitation, City of Todd Mission, Texas** – Project Designer providing street rehabilitation, which includes replacing the existing road with cement stabilized base, cold mix asphalt, and replacing culverts. The culvert sizes were increased to increase the conveyance capacity of the drainage system, with associated ditch grading.
- **Street Rehabilitation, City of Magnolia, Texas** – Project Designer for a street rehabilitation project consisting of six streets for a total of 8,700 LF of road rehabilitation. Each road was milled and mixed the existing base and asphalt to create the base with an asphalt surface.

Alec S. McAndrew, E.I.T.



AREAS OF EXPERTISE

- Surface and Ground Water Treatment
- Wastewater Permitting
- Geographic Information Systems (GIS)
- Wastewater Collection and Treatment
- Water Storage and Distribution
- CAD

PROFESSIONAL EXPERIENCE

Alec joined our firm in July 2023, with a B.S. in Environmental Engineering from the University of Texas at Austin. His primary focuses are water and wastewater. Alec has experience with all phases of a project's lifespan, including design services, bid-related services, and construction management.

Wastewater experience includes the following:

- **ARPA Wastewater Ultraviolet (UV) Disinfection, City of Brenham, Texas** – Currently performing design services for the conversion of the chlorine contact chamber to UV disinfection.
- **Various Wastewater Treatment Plant (WWTP) Permit Renewals, Texas** – Prepared and submitted applications to the TCEQ to renew/amend WWTP Permits for five municipalities across the state of Texas. Permits include TPDES discharge permits, stormwater permits, and sludge permits for WWTP facilities.
- **GLO WWTP Rehabilitation, City of Brazoria, Texas** – Currently performing design, bidding, and construction-phase services related to the rehabilitation of the WWTP, including clarifiers, aeration basin, pumps, electrical, intake structure, and MCC building.
- **WWTP Sludge De-Watering and Water Reclamation Study, City of Luling, Texas** – Performed a study of the solid residuals from the WWTP to determine the most efficient sludge de-watering method for this plant. Performed a design and cost analysis for the addition of a water reclamation system for use on a neighboring property.

Water experience includes surface and ground water treatment plant (WTP) design, water system analysis, and impact fee assessment.

- **Surface Water Treatment Plant (SWTP) Rehabilitation and Expansion, City of Brenham, Texas** – Currently performing design services for the rehabilitation of

existing structures and expansion of the SWTP from 6.984 MGD to 8.35 MGD. This includes improvements and expansion of the low lift pump station, rapid mixers, clarifiers, filters, transfer pumps, high service pumps, centrifuges along with concrete and walkway repairs.

- **Water Plant TTHM Aerators, Washington County, Texas** – Currently designing aeration system to remove TTHM from rural groundwater supply for Central Washington County Water Supply Corporation.

GIS experience includes uploading data on maps to reflect the current or future state of water and wastewater systems.

- **Impact Fee Study, City of Brenham, Texas** – Utilized GIS maps to overlay the projected projects for the water system to display the location and scope of the changes to the whole system.

CAD experience includes using AutoCAD to form design drawings and using WaterGEMS to model water and wastewater systems.

- **Various WWTP Permit Renewals, Texas** – Utilized AutoCAD to create and alter exhibits for the WWTP permits, including site maps, design amendments, and process flow diagrams.
- **Impact Fee Study, City of Brenham, Texas** – Utilized the WaterGEMS software to model future conditions on the water and wastewater systems for the City of Brenham. Created multiple scenarios to display the portions of the system which would be affected by growth and then used the software to test projects which resolve the issues.

YEARS OF EXPERIENCE

1

YEARS WITH FIRM

1

EDUCATION

B.S. Environmental Engineering – University of Texas at Austin, 2023

REGISTRATION

Engineer-in-Training

Blake E. Faldyn, E.I.T.



AREAS OF EXPERTISE

- Gas, Water, and Wastewater Hydraulics Modeling
- Natural Gas Distribution
- Impact Fee Development
- Water Storage and Distribution
- Geographic Information System (GIS)
- Wastewater Collection

PROFESSIONAL EXPERIENCE

Blake joined our firm in December 2021, with a B.S. in Civil and Environmental Engineering from Texas A&M University. He has experience in survey, design, bidding, and construction-phase services in the municipal and water disciplines. His primary focuses are natural gas, water, and wastewater hydraulics modeling and the development of impact fees.

Water experience:

- **Water System Model Development, City of Hempstead, Texas** – Performed services related to creation of a full scale, system wide software model of the City’s water supply distribution system and the development of water and sanitary sewer impact fees as part of an impact fee study.
- **Water System Model Development, City of Brenham, Texas** – Performed services related to updating and calibrating a full scale, system wide software model of the City’s water supply distribution system and the development of water and sanitary sewer impact fees as part of a water system evaluation and impact fee study.
- **Water System Model Development, City of Tarkington Special Utility, Texas** – Performed services related to updating and calibrating a full scale, system wide software model of the City’s water supply distribution system and the development of water impact fees as part of an impact fee study.
- **Water System Model Development, City of Bellville, Texas** – Currently performing services related to creation of a full scale, system wide software model of the City’s water supply distribution system and the development of water and sanitary sewer impact fees as part of an impact fee study.

- **Highway 90 Waterline Improvements, City of Liberty, Texas** – Performed design phase services related to installation of approximately 2,200 LF of 8-inch PVC water main. This project was completed in October 2023.
- **ARPA South Water Plant, City of Richwood, Texas** – Project Designer for the installation of a new booster pump station to improve water pressure in the southern part of the City’s water distribution system. This project is currently in the construction phase and is anticipated to be completed by May 2024.

Wastewater experience:

- **Wastewater System Model Development, City of Brenham, Texas** – Performed services relating to creation of a system wide software model of the City’s wastewater collection system and the development of water and sanitary sewer impact fees as part of an impact fee study.
- **ARPA Sanitary Sewer Improvements, City of Sealy, Texas** – Currently performing construction-phase services relating to the construction of approximately 2,600 LF of 6-inch force main and 8-inch PVC gravity sewer and seven manholes. This project is currently in the construction phase and is anticipated to be completed by August 2023.
- **ARPA Lift Station Improvements, City of Sealy, Texas** – Currently performing construction-phase services relating to the construction of lift station improvements. This project is currently in the construction phase and is anticipated to be completed by May 2024.

YEARS OF EXPERIENCE

3

YEARS WITH FIRM

3


EDUCATION

B.S. Civil Engineering – Texas A&M University, 2021

REGISTRATION

Engineer-in-Training

Blake E. Faldyn, E.I.T.

- 
- **Highway 36 Sanitary Sewer Extension, City of Sealy, Texas** – Currently performing construction-phase services relating to the construction of approximately 5,000 LF of 6-inch force main and 8-inch PVC gravity sewer and one lift station. The project is currently in the construction phase and is anticipated to be completed by July 2024.
 - **Allens Creek Trunk Sewer Replacement, City of Sealy, Texas** – Project Manager for the replacement of approximately 2,400 LF of 24-inch PVC gravity sewer. This project is currently in the design phase and is anticipated to bid in June 2024.

GIS experience:

- **Utility Master Plans and Impact Fees, City of Sealy, Texas** – Performed services relating to preparation of existing and proposed maps and fact sheets to highlight approximately 40 potential water, sanitary sewer, and natural gas Capital Improvement Plan projects for the City's water, sanitary sewer, and natural gas systems for the next 20 years as part of a master planning and impact fee study.
- **Water and Sanitary Sewer Evaluation, City of Hempstead, Texas** – Performed services related to preparation of existing and proposed water and sanitary sewer maps for the next 10 years as part of an impact fee study.
- **2023 Impact Fee Study, City of Brenham, Texas** – Performed services related to preparation of existing and proposed water and sanitary sewer maps for the next 10 years as part of an impact fee study.
- **Water Impact Fee Study, Tarkington Special Utility District** – Currently performing services related to preparation of existing and proposed water maps for the next 10 years as part of an impact fee study.
- **Impact Fee Study and Pavement Assessment, City of Bellville, Texas** – Currently performing services related to preparation of existing and proposed water, sanitary sewer, and roadway maps for the next 10 years as part of an impact fee study.

Daniel A. Carpiaux

GIS Analyst



AREAS OF EXPERTISE

- Geographical Information Systems (GIS)
- Project Management
- Surveying

PROFESSIONAL EXPERIENCE

GIS experience includes use of ArcGIS, AutoCAD, and GPS technologies for data analysis and facilities management as follows:

- **Developed long-range plans, goals, objectives, and priorities** to improve GIS operational efficiency and effectiveness for numerous clients throughout the Midwest.
- **Edited and reconciled digital data** to match client specifications: utilized custom menus, applications, and GIS software. Actively participated in prototype development and implementation of the company's quality control/data reconciliation application design and process for Henrico County, Virginia.
- **Analyze/consult GIS needs** and business requirement for clients to determine proper technical solutions.
- **Supervised GIS projects** and personnel internally at Strand and externally for clients.
- **Designed, created, and maintained datasets** in enterprise, personal, and file geodatabases for numerous clients.
- **Responsible for coordination of mobile mapping applications** (GPS and ArcPad/TerraSync) and field inspections (Outfalls, Poles, Manholes, Trees).
- **Various types of mapping/analysis in the ESRI® ArcGIS environment**, including crimes, transportation/addressing, planning, utilities, and demographics.

GIS projects include:

- GIS Implementation and Website – Hearne, TX
- GIS Implementation and Website – Splendora, TX
- GIS Web Creation – Weimar, TX
- GIS Implementation – Morgantown Utility Board, West Virginia
- GIS Implementation and website – Prairie du Sac, Wisconsin

- GIS Implementation and website – Viroqua, Wisconsin
- GIS Creation and Web Hosting Services – East Troy, Wisconsin
- GIS Design and Implementation – Waupun, Wisconsin
- GIS Services – Lake Mills, Wisconsin
- GIS Web Development – Lancaster, Wisconsin
- Development of New GIS for Sanitary Sewer and Water System – Parkersburg Utility Board, West Virginia
- Facilities Planning and Maintenance of Sanitary Sewer Collection System Using GIS-Based Asset Management and Flow Modeling Software – Seymour, Indiana
- Water Supply and Distribution System Study-Galena Territories – Utilities, Inc. – Galena, Illinois
- GIS Storm Sewer System Mapping – Sterling, Illinois
- GIS Development Services – Mount Horeb, WI
- GIS Web Development – Town of Brookfield, Wisconsin
- GIS Services and Web Hosting – Oconto Falls Municipal Utilities, Wisconsin
- GIS Support and Web Hosting – DeForest, Wisconsin

Computer software experience includes ArcGIS, AutoCAD, MicroStation, SQL Server, VB programming, TerraSync, ArcPad, 3D modeling and rendering, and Access Database creation and manipulation.

PROFESSIONAL AFFILIATIONS

- Wisconsin Land Information Association
- ESRI Wisconsin User Group

YEARS OF EXPERIENCE

24

YEARS WITH FIRM

20

EDUCATION

B.S. Urban and Regional Planning – University of Wisconsin-Green Bay, 1997