



## AUTHORIZATION FOR PROFESSIONAL SERVICES

**PROJECT NAME:** City of McLendon Chisholm Water System Acquisition Due Diligence

**TNP PROJECT NUMBER:** TBD

**CLIENT:** City of McLendon Chisholm  
ATTN: Mr. Konrad Hildebrand

**ADDRESS:** 1371 West FM 550  
McLendon Chisholm, TX 75032  
Sent via e-mail to: [Cityadministrator@Cityofmclendonchisholm.com](mailto:Cityadministrator@Cityofmclendonchisholm.com)

This Agreement, effective November \_\_\_\_, 2022, is entered into by and between the City of McLendon Chisholm, Texas (the CLIENT) and Teague Nall and Perkins, Inc. (the CONSULTANT) for professional engineering design services ("Agreement"). That for and in consideration of the covenants contained herein, and for the mutual benefits to be obtained hereby, the parties agree as follows:

### SCOPE OF BASIC SERVICES:

This Agreement will provide for engineering consulting services for water system due diligence and review of the RCH Water Supply Corporation (RCH) system for the Client as they contemplate the acquisition of the RCH Water Supply Corporation (RCH) system and other water related infrastructure improvements and options to serve certain portions of the City of McLendon Chisholm. Our scope of consulting services includes assisting the City with the items identified below:

- I. **City Council/Citizen Water System Sub-committee:** Consultant will assist the City in the formation of a committee that can meet on a frequent basis to discuss and review details regarding the City's opportunities, benefits, costs and liabilities associated with becoming the City's primary water supplier. It is suggested that the subcommittee be comprised of 2 City council members, staff and a few non-elected citizens. The committee will be a recommending body to the City Council and will present findings for formal discussion and action to the entire City Council. TNP's consultants will participate in these meeting as requested to provide data, and information relevant to discussions.
- II. **Review of the Existing RCH Water System:** TNP's consultants will perform due diligence and work with City staff, RCH staff and its engineering consultants to obtain available and related information, and provide a basic REVIEW of the existing RCH System including:
  - a. The current water model prepared by RCH's consultant
  - b. The life and expected longevity of the existing major infrastructure
  - c. Mapping of existing waterlines and locations
  - d. Construction records for tanks, pumps, water lines, easements
  - e. Water usage records and data
  - f. Operation issues: Administrative staff, maintenance & repairs, inspections
  - g. Number of existing and current plan to serve any additional customers
  - h. Water rates
  - i. Status of design for water supply (i.e. direct connection to North Texas Municipal Water District (NTMWD) trunk line)
  - j. Current and future RCH system improvements, schedules and associated costs of various issues:
    - i. Proposed water tower at League Rd. and Edwards Rd.
    - ii. Planned Volume of water for the proposed NTMWD Direct Connect
    - iii. Potential Volume of water option for increasing Terrell-Trilogy-Tapestry line
    - iv. TX-Dot requirement and associated cost for relocation of line along Hwy 205

**III. Review of Potential System upgrades to meet Current and future demands including:**

- a. Review of City's growth projections for 5, 10, 20-years and how it relates to the RCH System
- b. Review of the existing and potential alternative water system pressure planes
- c. Assistance with collecting and providing City with information needed for negotiation of water agreement with Rockwall
- d. Assistance to the City and its attorney with applying for and obtaining CCN, if necessary
- e. Oversight of water rate studies and analysis of potential water impact fees
- f. Consulting with the City's Financial Advisor regarding potential financing options for acquisition costs.

**IV. Review of potential other costs and liabilities to acquire RCH System:** This will include due diligence to assist staff in determining potential costs, benefits and liabilities of becoming a direct customer of NTMWD versus purchasing wholesale water from Rockwall and/or City of Terrell in the short and long term. In addition, TNP will assist the City in obtaining information for existing and expected future needs regarding water department staffing & operations. This will include options to utilize third party companies for water system management, maintenance and billing.

**V. CCN transfer Status and Scheduling:** TNP's consultants will work with City Staff, its attorneys, RCH representatives, TCEQ, the Texas Public Utilities Commission (PUC) the NTMWD and other required entities to establish a reasonable schedule with milestones to complete the RCH system transfer. TNP will assist City staff and its attorneys with the application for the actual transfer of the CCN.

**VI. Marketing, customer/citizen communication Programs:** It is TNP's recommendation that the City begin to disseminate information quickly to inform its' Citizens with accurate and timely information regarding the potential acquisition of RCH to minimize confusion and rumors and to provide for transparency regarding the City's decisions. TNP will make its staff available (including our in-house marketing team if desired for an additional fee) to participate in these efforts and can research and make recommendations of firms and consultants that specialize in this type of effort.

**TNP KEY PERSONNEL:** The key personnel assigned to this project include Chris Cuny, P.E. serving as Principal in Charge and Michael DeMotte, P.E. serving as Principal Engineering and Technical advisor. TNP's Allen Office Municipal Engineering Staff will be assigned and utilized as needed in data collection and due diligence activities. Resumes of the key personnel are attached at the end of this proposal.

**COMPENSATION FOR BASIC SERVICES:** This project contains multiple aspects, various options and unknown difficulties in obtaining information from the various sources and entities discussed above, it is therefore impractical to provide a firm fixed fee for the project at this time. Therefore, TNP proposes to perform the services outlined above at our standard hourly consulting rates with a not to exceed budget of \$75,000.00. TNP will only bill for the actual time and the associated hourly charges incurred and for the scope of services authorized by the client. Should the required time and effort approach the budget, the client will be notified, and no further effort or hourly charges expended unless the City provides written authorization. TNP's Hourly rates are included as Attachment "A". Please note that TNP's Standard Hourly rates may be adjusted at the beginning of each calendar year and if adjusted those rates would be applicable to this contract.

**DIRECT EXPENSES:** Any project related fees paid by the Engineer on behalf of the Client (filing fees, advertising fees, etc.) shall be reimbursed by the Client at 1.10 times the actual cost.

**EXTRA SERVICES:** Services requested by the Client and provided by the Engineer which are not specifically included in BASIC SERVICES as defined above shall be reimbursed either on an hourly basis at standard TNP hourly rates or at a predetermined and mutually agreed amount. Examples of EXTRA SERVICES are shown on Attachment 'B'.

**BILLING:** BASIC SERVICES, EXTRA SERVICES and Direct Expenses shall be billed monthly via email. Invoices shall reflect the work completed to date. The Client shall pay within 30 days of the date of the email. Delays of payment in excess of 30 days after the email date may result in cessation of services until full payment is received. Time shall be added to the project schedule for any work stoppages resulting from the Client's failure to render timely payment.

**FUNDING:** Agreement to this contract acknowledges available funding for the proposed engineering and surveying services. Payment for engineering and surveying services shall not be contingent upon the Client's available project-specific funds or anticipated future funding.

**SCHEDULE:** The proposed services shall begin within 7 working days of authorization to proceed. A schedule is included as Attachment 'C' and made a part hereto.

**SUPPLEMENTAL PROVISIONS:** The attached supplemental provisions are incorporated and made a part of this agreement.

Please execute and return a signed copy for our files.

Approved by Client:

City of McLendon Chisholm

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Accepted by Engineer:

Teague Nall and Perkins

By: \_\_\_\_\_

Printed Name: Chris Cuny, PE

Title: Associate Principal - Director Land Development

Date: November 3, 2022 \*

\* The proposed fees may need to be revised if all tasks are not authorized within 180 days of this date.

## SUPPLEMENTAL PROVISIONS

1. **AUTHORIZATION TO PROCEED**  
Signing this form shall be construed as authorization by Client for TNP, Inc. to proceed with the work, unless otherwise provided for in the authorization.
2. **LABOR COSTS**  
TNP, Inc.'s Labor Costs shall be the amount of salaries paid TNP, Inc.'s employees for work performed on Client's Project plus a stipulated percentage of such salaries to cover all payroll-related taxes, payments, premiums, and benefits.
3. **DIRECT EXPENSES**  
Unless otherwise stated, a fee equal to 3% of labor billings shall be included on each monthly invoice to account for the TNP's direct expenses for the Project. Direct Expenses shall be those costs incurred on or directly for the CLIENT's Project, including but not limited to prints, plots, copies, postage, courier services, binding charges, mileage, etc.
4. **OUTSIDE SERVICES**  
When technical or professional services are furnished by an outside source, when approved by Client, an additional amount shall be added to the cost of these services for TNP, Inc.'s administrative costs, as provided herein.
5. **ENGINEER'S OPINION OF PROBABLE COST**  
Any cost opinions provided by TNP, Inc. will be on a basis of experience and judgment, but since it has no control over market conditions or bidding procedures TNP, Inc. cannot warrant that bids or ultimate construction costs will not vary from these cost opinions.
6. **PROFESSIONAL STANDARDS**  
TNP, Inc. shall be responsible, to the level of competency presently maintained by other practicing professional engineers in the same type of work in Client's community, for the professional and technical soundness, accuracy, and adequacy of all design, drawings, specifications, and other work and materials furnished under this Authorization. TNP, Inc. makes no other warranty, expressed or implied.
7. **TERMINATION**  
Either Client or TNP, Inc. may terminate this authorization by giving 30 days written notice to the other party. In such event Client shall forthwith pay TNP, Inc. in full for all work previously authorized and performed prior to effective date of termination. If no notice of termination is given, relationships and obligations created by this Authorization shall be terminated upon completion of all applicable requirements of this Authorization.
8. **ARBITRATION**  
All claims, disputes, and other matters in question arising out of, or relating to, this Authorization or the breach thereof may be decided by arbitration in accordance with the rules of the American Arbitration Association then obtaining. Either Client or TNP, Inc. may initiate a request for such arbitration, but consent of the other party to such procedure shall be mandatory. No arbitration arising out of, or relating to this Authorization shall include, by consolidation, joinder, or in any other manner, any additional party not a party to this Authorization.
9. **LEGAL EXPENSES**  
In the event legal action is brought by Client or TNP, Inc. against the other to enforce any of the obligations hereunder or arising out of any dispute concerning the terms and conditions hereby created, the losing party shall pay the prevailing party such reasonable amounts for fees, costs and expenses as may be set by the court.
10. **PAYMENT TO TNP, INC.**  
Monthly invoices will be issued by TNP, Inc. for all work performed under the terms of this agreement. Invoices are due and payable on receipt. Interest at the rate of 1½% per month will be charged on all past-due amounts, unless not permitted by law, in which case, interest will be charged at the highest amount permitted by law.
11. **LIMITATION OF LIABILITY**  
TNP, Inc.'s liability to the Client for any cause or combination of causes is in the aggregate, limited to an amount no greater than the fee earned under this agreement.
12. **ADDITIONAL SERVICES**  
Services in addition to those specified in Scope will be provided by TNP, Inc. if authorized in writing by Client. Additional services will be paid for by Client as indicated in attached Basis of Compensation or as negotiated.
13. **SALES TAX**  
In accordance with the State Sales Tax Codes, certain surveying services are taxable. Applicable sales tax is not included in the above proposed fee. Sales tax at an applicable rate will be indicated on invoice statements.
14. **SURVEYING SERVICES**  
In accordance with the Professional Land Surveying Practices Act of 1989, the Client is informed that any complaints about surveying services may be forwarded to the Texas Board of Professional Engineers and Land Surveyors, 1917 S. Interstate 35, Austin, Texas 78741, fax: (512) 440-5715.
15. **INVALIDITY CLAUSE**  
In case any one or more of the provisions contained in this Agreement shall be held illegal, the enforceability of the remaining provisions contained herein shall not be impaired thereby.
16. **PROJECT SITE SAFETY**  
TNP, Inc. has no duty or responsibility for project site safety.
17. **DRAINAGE CLAUSE**  
TNP, Inc. In the performance of its services may be required to assess the impact of the Project on neighboring property owners. The parties to this Agreement recognize that the development of real property has the potential to increase water runoff on downstream properties, and that such increase in runoff increases the possibility of water damage to downstream properties. The Client agrees to indemnify and hold the Engineer harmless from any and all claims and damages arising, directly or indirectly, from water or drainage damage to downstream properties resulting from the development and construction of the Project. Client shall not be required to reimburse Engineer for any claims or expenses arising out of the Project if it is determined by a court of competent jurisdiction that Engineer was negligent in the performance of its duties and obligations, and that Engineer's negligence was the direct cause of damage to a property downstream of the Project.
18. **CONSTRUCTION MEANS AND METHODS**  
Means and methods of construction are the sole responsibility of the contractor.

**Attachment 'A'**  
**2022 Standard Hourly Rates**  
*Effective January 1, 2022 to December 31, 2022*

| <b>Engineering/Landscape Architecture/ROW</b> | <b>Hourly Billing Rate</b> |
|---|----------------------------|
| Principal or Director                         | 270.00                     |
| Team Leader                                   | 260.00                     |
| Senior Project Manager                        | 250.00                     |
| Project Manager                               | 200.00                     |
| Senior Engineer                               | 260.00                     |
| Project Engineer                              | 170.00                     |
| Engineer III/IV                               | 140.00                     |
| Engineer I/II                                 | 130.00                     |
| Senior Landscape Architect/Planner            | 200.00                     |
| Landscape Architect / Planner                 | 180.00                     |
| Landscape Designer                            | 125.00                     |
| Senior Designer                               | 165.00                     |
| Designer                                      | 150.00                     |
| Senior CAD Technician                         | 135.00                     |
| CAD Technician                                | 120.00                     |
| IT Technician                                 | 180.00                     |
| Clerical                                      | 85.00                      |
| ROW Manager                                   | 220.00                     |
| Senior ROW Agent                              | 175.00                     |
| ROW Agent                                     | 135.00                     |
| Relocation Agent                              | 170.00                     |
| ROW Admin                                     | 90.00                      |
| Intern  | 80.00                      |
| <hr/>   |                            |
| <b>Surveying</b>                              | <b>Hourly Billing Rate</b> |
| Survey Manager                                | 245.00                     |
| Registered Professional Land Surveyor (RPLS)  | 210.00                     |
| Field Coordinator                             | 145.00                     |
| S.I.T. or Senior Survey Technician            | 145.00                     |
| Survey Technician                             | 120.00                     |
| 1-Person Field Crew w/Equipment**             | 155.00                     |
| 2-Person Field Crew w/Equipment**             | 185.00                     |
| 3-Person Field Crew w/Equipment**             | 210.00                     |
| 4-Person Field Crew w/Equipment**             | 230.00                     |
| Flagger                                       | 55.00                      |
| Abstractor (Property Deed Research)           | 95.00                      |

|   |        |
|---|--------|
| Small Unmanned Aerial Systems (sUAS) Equipment & Crew | 420.00 |
| Terrestrial Scanning Equipment & Crew                 | 265.00 |

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|   | <b>Hourly<br/>Billing<br/>Rate</b> |                 |
|---|------------------------------------|-----------------|
| <b>Utility Management, Utility Coordination, and SUE</b>    |                                    |                 |
| Senior Utility Coordinator                                  | 175.00                             |                 |
| Utility Coordinator   | 160.00                             |                 |
| Sr. Utility Location Specialist                             | 165.00                             |                 |
| Utility Location Specialist                                 | 100.00                             |                 |
| 1-Person Designator Crew w/Equipment***                     | 155.00                             |                 |
| 2-Person Designator Crew w/Equipment***                     | 180.00                             |                 |
| 2-Person Vac Excavator Crew w/Equip (Exposing Utility Only) | 300.00                             | (4 hr.<br>min.) |
| Core Drill (equipment only)                                 | 790.00                             | per day         |
| SUE QL-A Test Hole (0 < 8 ft)*****                          | 2,200.00                           | each            |
| SUE QL-A Test Hole (> 8 < 15 ft)*****                       | 2,700.00                           | each            |

|   | <b>Hourly<br/>Billing<br/>Rate</b> |
|---|------------------------------------|
| <b>Construction Management, Construction Engineering and Inspection (CEI)</b> |                                    |
| Construction Inspector I/II   | 110.00                             |
| Construction Inspector III  | 120.00                             |
| Senior Construction Inspector   | 140.00                             |
| Construction Superintendent   | 185.00                             |
| Senior Project Manager  | 250.00                             |
| Construction Manager  | 200.00                             |
| Senior Construction Manager   | 250.00                             |
| Construction Records Keeper   | 120.00                             |

**Direct Cost Reimbursables**

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A fee equal to 3% of labor billings shall be included on each monthly invoice for prints, plots, photocopies, plans or documents on CD, DVD or memory devices, and mileage. No individual or separate accounting of these items will be performed by TNP.

Any permit fees, filing fees, or other fees related to the project and paid on behalf of the client by TNP to other entities shall be invoiced at 1.10 times actual cost.

**Notes:**

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*All subcontracted and outsourced services shall be billed at rates comparable to TNP's billing rates above or cost times a multiplier of 1.10.*

\* Rates shown are for 2022 and are subject to change in subsequent years.

\*\* Survey equipment may include truck, ATV, Robotic Total Station, GPS Units and Digital Level.

\*\*\* Includes crew labor, vehicle costs, and field supplies.

\*\*\*\*\*Does not include Level B Designating effort.

## **ATTACHMENT 'B' EXTRA SERVICES**

Extra Services that are beyond the basic services outlined in the previous sections of this proposal and **ARE NOT** included in this proposal are as follows:

- i. Surveying
- ii. Water Modeling
- iii. Capital Improvement Plans
- iv. Rate Studies
- v. Impact fee studies
- vi. Field Verification of existing water lines and other utilities
- vii. Design of Water storage systems, piping pumps and ground and or elevated tanks
- viii. Design of any water infrastructure improvements or facilities
- ix. Water storage Tank Inspection
- x. Right-of way or easement procurement, documentation or preparation
- xi. Wetlands or any environmental studies or consulting
- xii. Construction plan design or preparation
- xiii. Subsurface Utility Exploration (SUE)

Please note that one or more of the services excluded above can be provided by TNP to the client under a separate written agreement or amendment to this proposal if desired by the client in the future.

## **ATTACHMENT 'C' PROJECT SCHEDULE**

TNP's activities will commence within 7-days of the execution of this contract. It is our goal to complete the scope of work, described in the basic services (other than those items such as ongoing subcommittee meetings, marketing efforts and acquisition negotiations) within a 120-day period. It is understood and agreed that the objective of all involved in this project is to produce and provide quality and complete information and deliverables, which requires a considerable amount of coordination and cooperation, as well as adequate time for research, review and analysis. It is also understood that Engineer's ability to perform the scope of services is dependent upon timely receipt of information and data from the Client, as well as other requested materials as may be needed from other sources to complete the work. Adjustments in schedule may be required should information or data from the Client or other needed sources become delayed or not provided in a timely manner.



**CHRIS CUNY, PE**  
PIC and CLIENT LIAISON

#### Bio:

Serving as Principal and Director of TNP's Land Development Services, Chris brings 27 years of senior level project management experience, and over 38 years of experience overall. He is an expert in dealing with various governmental entities and agencies at the federal, state and local level.

Chris' experience includes project management (from design phase through construction) ranging from local land development to international infrastructure rehabilitation and construction programs in developing countries. He has served as an independent owner's representative for numerous design/build projects. His career includes serving as Vice President and Director of the Criminal Justice Department for the nation's 19th largest Criminal Justice Architect, and Vice President of International operations for an environmental design/build remediation firm.

#### Years of Experience:

38 Years of Experience  
2 Years with TNP

#### Professional Registrations:

Registered Professional Engineer,  
Texas No. 65642

#### Education:

BS, Civil Engineering  
Texas A&M University, 1983

## PROJECT EXPERIENCE

### Professional Associations:

- Member,*  
Rockwall ISD School Board, 2010 - 2019
- Member,*  
Rockwall ISD Board President, 2013 - 2016
- Member,*  
Rockwall ISD Vice President, 2010 - 2013
- President,*  
Rockwall ISD Foundation
- Director,*  
Rockwall Chamber of Commerce Board
- Mayor,*  
City of Heath, 1994 - 2004
- Member,*  
City of Heath Council, 1990 - 1994

### Governors Boulevard

*Heath, Texas / Rockwall County*

Chris served as Project Principal and Engineer of record for design and oversight of construction of 3.0 miles of a 37' wide concrete pavement collector street in Rockwall County including all drainage and underground utilities (water, sewer, storm drainage, electrical and gas). The Project also included the design and oversight of construction of 3.0 miles of a 10' wide concrete Hike and Bike Path. The last section of this project was completed February 2021.

### Trophy Boulevard

*Heath, Texas / Rockwall County*

Chris served as Project Principal and Engineer of record for design and oversight of construction of 2.0 miles of a 37' wide concrete pavement collector street in Rockwall County including all drainage and underground utilities (water, sewer, storm drainage, electrical and gas). The project also included the design of a TX-DOT approved Left Turn and Right Turn deceleration and acceleration Lane. The last section of this project was completed February 2019.

### Trophy Boulevard Via Toscana Blvd

*Heath, Texas / Rockwall County*

Chris served as Project Principal and Engineer of record for design and oversight of construction of 2.0 miles of a 37' wide concrete pavement collector street in Rockwall County including all drainage and underground utilities (water, sewer, storm drainage, electrical and gas) and a Bridge feature utilizing a triple 40' wide x 18" tall Arch Structure over Brushy Creek. The last section of this project was completed Spring 2020.

### Site Development Project Experience

#### Educational Facilities

- **Texas A&M International University** - 100,000 SF Fine Arts Complex, Laredo
- **Texas A&M International University** - 120,000 SF Student Center, Laredo

#### Public Facilities

- **City of Rockwall** - Rockwall County Library Facility
- **Fort Worth Transit Authority** - Intermodal Transportation Center, Fort Worth

#### Private Facilities

- **Lowdent, LLC** - Lowrance Dental Office Building, Rockwall
- **Hall and Lee Land Company** - Dr. Young Medical Office Building, Rockwall
- **HomeBank, Rockwall**

#### Residential (Single-Family) Development

- **Cedar Creek Preservation, LLC** - Edgewater Phases 1 & 2 Lake Front Residential Resort Community, Kaufman
- **Chisholm Land Holdings, LP** - Mirra Vista Single Family Estates (195-Acres), McLendon Chisholm
- **Daedalus Corporation** - Falcon Point Phase I-III Single Family, Heath
- **Heath Equity Partners** - Shores of Cedar Glen Single Family, Heath
- **HGYC, LLC** - Heath Golf and Yacht Club Mixed Use Development (785-Acres), Heath
- **James M. Brown Partners** - Fontanna Ranch Single-Family Residential Development (100-Acres), Rockwall
- **MC 550, LP** - Sonoma Verde Mixed Development (525-Acre), McLendon-Chisholm
- **Merritt Capital Partners** - Union Valley Ranch Single Family Residential, Union Valley
- **Sharif Munir** - Iris Hollow Single Family Custom Home, Dallas
- **Southbrook Development** - Discovery Lakes Single Family (200-Acre), Rockwall
- **Sterling One Development** - Kingsbridge Phase I-III Single Family Gated Community, McLendon Chisholm
- **Sterling One Development** - Terrabela Single Family Custom Community, Heath
- **Sterling One Development** - Wyndemere Phases I & II Single Family Estates, Heath
- **Terry Lane LLC** - Arbor Enclave Single Family Residential, Heath
- **Whittle Development** - Chisholm Crossing Phase IV Single Family, McLendon-Chisholm

## Michael G. DeMotte, PE, Associate Principal



**TITLE:** Director of Engineering Services - Allen Office

 [mdemotte@tnc.com](mailto:mdemotte@tnc.com)

**EDUCATION:** BS, Civil Engineering, Texas A&M University, 1997

**REGISTRATIONS:** Licensed Professional Engineer, Texas No. 90122  
Certified Floodplain Manager, Texas No. 4046-21N

**YEARS EXPERIENCE:** 23 Years | 6 Years w/TNP

**COMMUNITY SERVICE:** Veteran, US Navy, 1989-1993 | Member, City of Plano Community Emergency Response Team, 2013-Present | Chairman, Board of Directors, Children's Chorus of Collin County, 2018-Present

Michael's expertise includes leading teams and delivering water, wastewater, and reclaimed water projects to public and private clients. He offers a broad balance of expertise in project and production management, quality control, client service, and managing multi-disciplinary teams. He not only brings technical competence, but also strong leadership and communication skills vital to coordinating with multiple subconsultants, agencies, departments, and community representatives. Michael is also a veteran of the US Navy, where he served as an Engineering Laboratory Technician and Machinist's Mate (nuclear) onboard a fleet ballistic missile submarine, gaining special appreciation for good communication skills and attention to detail.

### Storage Tank Experience

- City of Burnet
  - » 2010 Ground Storage Tank Rehabilitations
  - » 0.5 MG Inks Lake WTP Clearwell Rehabilitations
- City of Colleyville
  - » 1.0 MG Elevated Storage Tank and Transmission Main
- City of Fort Worth
  - » 2014 Meadowbrook 2.0 MG Elevated Tank Rehabilitation
  - » Calmont 1.0 MG Elevated Tank Repaint
  - » 1998 Meadowbrook 2.0 MG Elevated Tank Rehabilitation/Repaint
- City of Gainesville
  - » 0.25 MG Elevated Storage Tank Demolition
- City of Muenster
  - » 0.2 MG Elevated Storage Tank Rehabilitation
- City of New Braunfels
  - » 0.5 MG Mission Hills Ranch Elevated Storage Tank
- City of Stephenville
  - » 0.5 MG Elevated Water Tank Evaluation

### Lift/Pump Station Design Experience

- City of Bartow, FL
  - » Bartow Force Main and Lift Station
- City of Buda
  - » 6.2 MGD Garlic Creek Lift Station Replacement
- City of Decatur
  - » 3.5 MGD Bennett Road Lift Station
  - » 2.5 MGD Lipsey Lift Station, Decatur
- City of Fort Worth
  - » 7.0 MGD Richardson Slough Replacement Lift Station
- City of New Braunfels
  - » Mission Hills Ranch Lift Station and Booster Pump Station
- City of North Port, FL
  - » 6.0 MGD West Villages Pump Station
- City of Rockwall
  - » Stonebridge Lift Station Elimination
- Denton ISD
  - » Ray Braswell High School Lift Station
- Northtown MUD
  - » Low Flow Lift Station Improvements, Austin
- Prosper ISD
  - » Stadium Lift Station
- Wise County Water Supply District
  - » 5.0 MGD Wise County Raw Water BPS, Decatur
  - » Raw Water Pump Station Rehabilitation, Decatur
- Manatee County, FL
  - » River Plantation Phase II Lift Station

### Hydraulic Modeling and Master Planning

- City of Denison
  - » 2018 Potable Water Master Plan Update
- Northtown MUD
  - » Wastewater Master Plan, Austin
  - » Potable Water Master Plan, Austin
- Town of Flower Mound
  - » Reuse System Master Plan
- West Villages Improvement District, North Port, FL
  - » Wastewater Master Plan
  - » Potable Water Master Plan
  - » Reclaimed Water Master Plan
- Various Private Developers
  - » Rolling V South Ranch Infrastructure Planning and Analysis, Fort Worth
  - » Walton Central Texas Properties Reuse Study, Central
  - » Creekside MHP Infrastructure Assessment and Improvements, Lewisville
  - » El Dorado MHP Infrastructure Assessment and Improvements, Humble

### Wastewater Treatment Plants

- West Villages Wastewater Treatment Plant, North Port, Florida
- Decatur Wastewater Treatment Plant
  - » Ultraviolet Disinfection System
  - » Equalization Basin Improvements, Decatur
- Wise County Water Supply District - Water Treatment Plant Expansion, Decatur
- Oak Hills Wastewater Treatment Plant
  - » Plant Expansion, Loughman, Florida
  - » Rapid Infiltration Basin (RIB) Relocation, Loughman, Florida
- Phelps Property Wastewater Treatment Plant Feasibility Study, Polk County, Florida

### Water and Wastewater Pipeline Design

- City of Burnet
  - » US 281 and SH 29 Water Line Relocations
  - » Sherrard Street Water Line Relocations
- City of Colleyville
  - » 16" McDonwell School Road Water Line
- City of College Station
  - » Bee Creek Sanitary Sewer Interceptor
- City of Decatur
  - » Carson Elementary School Utilities
  - » Thompson Street Reconstruction and Utilities
- City of Denison

- » FM 1417 12" Water Line
- » Theresa Drive 16" Water Line
- » 2017 Water Line Replacements
- City of Fort Worth
  - » IH-35 Utility Relocations
- City of Garland
  - » Parkmont Drive and Vicinity Paving, Drainage, Water and Wastewater Improvements
- City of Irving
  - » Betsy Wastewater Interceptor Improvements
  - » University Hills and Delaware Creek Wastewater Improvements
- City of McKinney
  - » Club Lake 12" Water Line
  - » Erwin Avenue Sanitary Sewer Aerial Crossing
- City of Rockwall
  - » Stonebridge Lift Station Elimination
- City of Sarasota, FL
  - » Fruitville Road/Coburn Road to Debrecen Road Roadway and Utility Replacements
- City of North Port, FL
  - » Sumter Boulevard Improvements and Utility Replacements, Phases II and III
- City of Marco Island, FL
  - » North Collier Boulevard Improvements and Utility Replacements
- North Texas Municipal Water District (NTMWD)
  - » North McKinney Parallel Gravity Interceptor
  - » 42" Water Line Replacement, Wylie
- Prosper ISD
  - » Frisco Panther Creek Wastewater Interceptor Ext. 4
  - » High School No. 3 Wastewater Interceptor
- San Antonio Water System
  - » Huebner Creek Utility Relocations, San Antonio
- Tarrant Regional Water District
  - » Integrated Pipeline (IPL) Sections 10 & 11
- Town of Addison
  - » Midway Road Reconstruction
- Wise County Water Supply District
  - » US 380 Raw Water Line Improvements, Decatur

### Transportation Experience

- City of Carrollton
  - » Monetary Lane & AW Perry Subdivision Street Replacements
  - » Jackson Arms Paving Improvements
- City of Dallas
  - » Dallas Alley Reconstruction Group 12-2043
- City of Farmers Branch
  - » Valley View Lane Roadway Improvements
  - » Denton Drive Improvements
- City of Garland
  - » Parkmont Drive and Vicinity Paving, Drainage, and Utility Improvements
  - » Naaman School Road and Branch Road Alignment Study
  - » Naaman School road Reconstruction
  - » Bottleneck Intersection Improvements
  - » Commercial Corridor Revitalization
- City of McKinney
  - » School Pedestrian Safety Enhancements
  - » ST 1834 Accessibility Improvements
- City of Melissa
  - » Melissa Connector Road
- City of Plano
  - » Maumelle Drive and Daybreak Trail Reconstruction
  - » Wood Park I and Dallas North Estates Paving and Water Improvements

- » Commerce Drive Reconstruction
- » 15th Street Reconstruction
- » 2020 Misc. Intersection Improvements
- City of University Park
  - » Snyder Plaza Improvements
- Dallas County
  - » Langdon Road Connector
- Town of Addison
  - » Midway Road Reconstruction
- Town of Prosper
  - » Coit Road Illumination
  - » preston Road Illumination
  - » Town Hall Infrastructure Improvements
  - » Fishtrap Road Segment 5 Reconstruction
- City of White Settlement - Judd Street Reconstruction
- City of Victoria - Intersection Improvements

### Stormwater Experience

- City of Garland
  - » Parkmont Drive and Vicinity Paving, Drainage, and Utility Improvements
  - » Naaman School Road Reconstruction
- City of Plano
  - » Maumelle Drive and Daybreak Trail Reconstruction
  - » Wood Park I and Dallas North Estates Paving and Water Improvements
  - » Prairie Creek Erosion Control Improvements
- City of Rockwall
  - » Highland Drive Reconstruction
  - » Residential Streets: Alta Vista Drive, West Street, Carriage Trail, Westway Drive, and Aspen Court Paving, Drainage and Utility Improvements
- Dallas County
  - » Langdon Road Connector
- Town of Addison
  - » Midway Road Reconstruction
- Private Developer
  - » Alta Bend Stormwater Pump Station, Houston

## Relevant Project Experience Write-Ups

### Water and Wastewater Pipeline Design

#### **City of Denison | 2017 Water Line Replacements**

Michael served as the Principal in Charge for the design of approximately 6,550 LF of 8" and 360 LF of 6" potable water line and associated appurtenances in 6 different locations throughout the City of Denison that were targeted for replacement as identified in the City's Water System Master Plan.

#### **City of Denison | 16" Theresa Drive/Railroad Water Line**

Michael is serving as Project Manager for the design of 2.7 miles of 16" water transmission main located along portions of a former railroad bed and along Theresa Drive. The project includes jack and dry bores under culverts and TxDOT roads, as well as installation via horizontal directional drilling under two large creeks. The project also includes installation of a new pedestrian bridge over Loy Lake Road, upon which the water line will be mounted for the roadway crossing.

#### **City of Denison | 2018 Potable Water Master Plan Update**

Michael is serving as the Principal-In-Charge for this update to the City's Potable Water Master Plan, which includes recreating the City's GIS shapefiles, creating a Potable Water System Map Book, reviewing and updating the City's hydraulic model, analyzing the system, recommending improvements to address deficiencies and prepare for anticipated growth, and developing the 5-year and 10-year CIP.

#### **City of Denison | FM 1417 12" Water Line, Phase II**

Michael is serving as Principal in Charge on Phase 2 for the City of Denison's FM 1417 12" Water Line project, in which the City contracted TNP to design water line replacements in accordance with their Potable Water System Master Plan. will consist of designing and installing ~2 miles of 12" water line along FM 1417 from the Caterpillar Facility located just north of Pecan Orchard Road to FM 996.

#### **City of Frisco | Panther Creek Wastewater Extension 4**

Principal in Charge for 11,100 LF of 12" to 24" wastewater main extension along the Parvin Branch of Panther Creek to serve new high school and surrounding development.

#### **City of Irving | University Hills Basin & Delaware Creek Wastewater Improvements**

Michael is serving as Principal in Charge for this project, which includes an alignment study for and design of ~3,000 LF of 21" wastewater main within Delaware Creek, and ~3,000 LF of 21"-24" wastewater mains in the Las Colinas area between SH114 and the Urban Center Lift Station. The project also includes a flood study and CLOMR for future improvements to Delaware Creek between Finley Road and SH183.

#### **City of Irving | Betsy Wastewater Interceptor Improvements**

Michael served as Project Manager for the design of ~3,100 LF of 18" interceptor rehab via CIPP and ~1,250 LF of 8" gravity sanitary sewer main replacement and associated pavement replacement.

#### **City of Rockwall | Stonebridge Lift Station Elimination**

Project Manager for project which eliminated an existing lift station, replacing it with ~12,000 LF of 12" wastewater main and 400 LF of 8" wastewater main. The project originally called for replacing the existing lift station, although during design it was determined the lift station could be eliminated altogether.

#### **Denton ISD | Ray Braswell High School Lift Station**

Michael served as the Project Manager for this project which consisted of the design of a 355 GPM lift station to serve the new Ray Braswell High School. The lift station included 2 submersible pumps, a 9' diameter by 25' deep wetwell, SCADA, a flow meter, an emergency diesel generator, and associated appurtenances.

#### **Denton ISD | High School Lift Station #4, Little Elm**

This project consisted of replacing an existing gravity meter and manhole with a submersible sanitary sewer lift station to serve the new DISD High School #4, including football and other athletic facilities. The new lift station includes two submersible pumps and is rated for 355 gallons per minute at a total dynamic head of 82 feet. The project included a 9-foot inside diameter x 25-foot-deep pre-cast concrete wet well with integral liner system, a cast-in-place concrete valve vault, two submersible solids-handling wastewater pumps, check valves, plug valves, quick disconnect fitting, pump controls including SCADA, and appurtenances. The site included a flow meter, permanent generator set, and other improvements. The project was designed on an aggressive schedule to allow for project completion prior to the opening of the new high school. The project was permitted through Mustang SUD, to whom the project will be dedicated for operation and maintenance.

#### **North Texas Municipal Water District (NTMWD) | North McKinney Parallel Gravity Interceptor**

Michael is serving as Project Manager for ~2 miles of 48" to 66" wastewater interceptor located within Corps of Engineers property adjacent to Lavon Lake, including bores/tunnels under FM546 and Wilson Creek.