



December 22, 2025
Revision No. 1: January 2, 2026
Kleinfelder Proposal No.: DFW25P190362R1

Mr. Roshan Chaudhary
City of Lewisville
151 W. Church Street
Lewisville, Texas 75057

**Subject: Proposal for Construction Observation and Materials Testing Services
Midway Branch HDPE Force Main
Lewisville, Texas**

Dear Mr. Chaudhary:

Kleinfelder is pleased to present this revised proposal to provide construction materials testing and/or observation services for the proposed Midway Branch HDPE Force Main Project in Lewisville, Texas. The quantities in this proposal have been revised based on your comments.

BACKGROUND AND PROJECT UNDERSTANDING

Based on our discussion with you and our interpretation of the project plans, we understand that this project will construct approximately 23,000 feet of High-Density Polyethylene (HDPE) force main pipe in Lewisville, TX. For preparation of this proposal, we have received project plans and specifications by Birkhoff, Hendricks & Carter, LLP. (dated June 2025) and a project schedule. The project activities will generally consist of:

- Open trench placement of HDPE pipe and backfill of utility trenches
- Underground bore placement of HDPE pipe to avoid selected conflicts and under the Elm Fork of the Trinity River.
- Replacement of asphalt and reinforced concrete sidewalks, paving and curb and gutters

SCOPE OF SERVICES

The following scope of services is based, in part, on project plans and specifications and is limited to providing testing and/or observations for the previously mentioned construction activities. Our services are anticipated to be performed on a part-time basis as scheduled by your designated representatives. *To most effectively serve the client and facilitate the construction process, our services should be scheduled 24-hour in advance. We understand that the construction process incorporates a large degree of variability and as such, we will do our best to accommodate scheduling calls made on the same day as our services are needed but we cannot guarantee that we can satisfy service requests made on the same day as the services are needed to be performed.*

Earthwork

Perform earthwork (soils) observation and testing services including:

- Obtain field samples and perform laboratory moisture/density relations tests (standard Proctor- ASTM D698) and soil classification tests (liquid limit, plastic limit and percent finer than no. 200 sieve analysis) for each soil type encountered during the construction process (native soils, proposed fill/backfill soils). For proposal purposes we have assumed 1 sample every 1000lf, but the encountered materials may require additional samples.
- Perform in-place nuclear moisture/density tests at the proposed rate of 1 per 200 LF of utility backfill per lift or a minimum of 3 tests per lift per day, unless otherwise directed by the client.
- Backfill operations will be tested on a periodic basis as completed by the contractor.

Cast-In-Place Concrete

Perform field testing and observation services during concrete placement events as requested. Concrete field testing and observation services will include:

- Sample concrete and record ambient air and concrete temperature measurements
- Measurement of slump and total air content
- Cast concrete sample cylinder sets at a frequency of one set for every 50 cubic yards of concrete or fraction thereof placed per day for each type of concrete placed. A concrete sample set will consist of 5 sample cylinders, though additional samples can be cast if approved by the client. Each sample cylinder will be approximately 4 inches in diameter by 8 inches high. As an alternative, 6-inch diameter by 12 inches high sample cylinders may be utilized if required by the project requirements or if requested by the client.
- Concrete compressive strength tests will be performed on sample cylinders with one tested at 7 days and three tested at 28 days. The remaining cylinder will serve as a "hold" specimen if additional testing is required or if the 28-day design strength is not met.
- Additional cylinders may be cast for early-age testing, if requested and approved by the owner; however, they have not been included in this proposal estimate.
- Contractor is responsible for providing means of onsite secure, proper storage of concrete samples.
- Assume separate trips for retrieval of concrete cylinder samples on the day following concrete placement, unless Kleinfelder personnel are already scheduled to be onsite for other activities.

Hot Mixed Asphalt Concrete

Perform field testing and observation services during asphalt placement events as requested. Asphalt field testing and observation services will include:

- Obtain hot mix field samples and perform laboratory testing for theoretical maximum density, asphalt content, and aggregate gradation.
- Perform in-place nuclear density tests during paving operations
- Obtain core samples and perform laboratory testing for bulk density

HDPE Pipe Installation

Perform periodic field observation services during HDPE placement events as requested. Services will include:

- Periodic observation of HDPE pipe fusion welding, preparation and placement, At your request these services are estimated at 50% coverage, here estimated as daily short duration trips.
- Collection of contractor prepared and cut 16" welded sections of pipe for ASTM F-3183 Guided Side Bend Test of Pipe welds. Due to preparation of test specimens F-3183 testing can take 3+ weeks to complete from the time of sampling.

Project Administration, Dispatching, and Reporting

Kleinfelder's Project Manager and office staff, including administrators and supervisory technicians will assist in the management of the project as follows:

- Manage the project operation and services delivery, review and finalize field and laboratory reports, and coordinate with the client and contractor(s) throughout the duration of the project.
- Coordinate field and laboratory services with the client or their designated representative and dispatch our field staff as scheduled.
- Process, finalize, and distribute all field and laboratory test reports.

Project Management & Construction Meeting Attendance

A project manager from our office will make site visits and attend meetings as follows:

- Attend project and pre-activity meetings as requested for the duration of the project.
- Visit the site and review progress periodically and as requested
- Provide general material engineering consultation as requested.

Additional Services

Additional observation or testing services (including stand-by time for contractor delays) not identified above may become necessary over the course of any given project. Kleinfelder can provide other services not listed above if these services are desired, following our receipt of appropriate authorization.

COMPENSATION

We have estimated a budget of **\$158,340** for the proposed scope of work for these projects. If projects costs approach this amount, we will contact you for approval to increase the budget. The invoicing for these projects will use the actual quantity of services and the attached Schedule of Fees. This amount will not be exceeded without prior approval. City of Lewisville and Kleinfelder may subsequently agree in writing to provide for additional services to be rendered under this agreement for additional, negotiated compensation. Technician time for field services will be billed portal-to-portal in hourly increments following the minimum 1 hour. Overtime rates will apply to services provided before 7 AM and after 5 PM. Kleinfelder will communicate when the fees for services have reach 80% of the above value. Services provided by Kleinfelder will be consistent with the engineering standards prevailing at the time and in the area that the work is performed; no other warranty, express or implied, is intended.

LIMITATIONS

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder’s profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

Even with diligent monitoring, construction defects may occur. In all cases the contractor is solely responsible for the direction and the quality of the work, adherence to plans and specifications, and repair of defects.

This proposal is valid for a period of 45 days from the date of this proposal. This proposal was prepared specifically for the client and its designated representatives and may not be provided to others without Kleinfelder’s express permission.

We appreciate the opportunity to provide you with this proposal and look forward to working with you on this project. If you have any questions or wish to discuss, please contact Joe Schweitzer at 972.868.5932 or jschweitzer@kleinfelder.com. You can also reach us at the office at 972.868.5900.

Sincerely,

KLEINFELDER, INC.

Texas Registered Engineering Firm F-16438



Joe Schweitzer, PE
Project Manager



Richard J. Hammerberg, PE
Sr. Program Manager

Attachment:
Fee Schedule & Estimate



CITY OF LEWISVILLE MIDWAY BRANCH HDPE FORCE MAIN CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES PROJECT ESTIMATE AND SCHEDULE OF FEES				
SERVICES	Qty.	UNIT	RATE	TOTAL
A. Earthwork Observation and Testing				
Field Technician	540	hourly	\$68.00	\$36,720.00
Field Technician (OT)		hourly	\$102.00	\$0.00
Standard Proctor, 4"	15	each	\$260.00	\$3,900.00
Atterberg Limits	15	each	\$95.00	\$1,425.00
Sieve Analysis -200	15	each	\$95.00	\$1,425.00
Nuclear Density Gauge	160	daily	\$75.00	\$12,000.00
Trip Charge	180	trip	\$50.00	\$9,000.00
			Subtotal:	\$64,470.00
B. Concrete Testing				
Field Technician	40	hourly	\$68.00	\$2,720.00
Field Technician (OT)		hourly	\$102.00	\$0.00
Sieve Analysis of Aggregates	2	each	\$150.00	\$300.00
Concrete Cylinders	50	each	\$25.00	\$1,250.00
Trip Charge	10	trip	\$50.00	\$500.00
			Subtotal:	\$4,770.00
C. Asphalt Observation and Testing				
Senior Field Technician	40	hourly	\$85.00	\$3,400.00
Field Technician (OT)		hourly	\$127.50	\$0.00
Binder Content	5	each	\$150.00	\$750.00
Gradation of Extracted Aggregate	5	each	\$120.00	\$600.00
Theoretical Maximum Density	5	each	\$125.00	\$625.00
Nuclear Density Gauge (per day)	5	daily	\$75.00	\$375.00
Trip Charge	5	trip	\$50.00	\$250.00
			Subtotal:	\$6,000.00
D. HDPE Observation and Testing				
Senior Field Technician	540	hourly	\$85.00	\$45,900.00
Senior Field Technician (OT)		hourly	\$127.50	\$0.00
Fusion Weld Side Bend Test	3	each	\$1,000.00	\$3,000.00
Trip Charge	135	trip	\$50.00	\$6,750.00
			Subtotal:	\$55,650.00
C. Project Management, Administration and Final Reporting				
Project Manager Meetings & Site Visits	100	hourly	\$175.00	\$17,500.00
Trip Charge	4	trip	\$50.00	\$200.00
Administration / Clerical	150	hourly	\$ 65.00	\$9,750.00
			Subtotal:	\$27,450.00
			Budget Total:	\$158,340.00

Notes & Assumptions

- Overtime rates will be charged at 1.5 times standard hourly rate, and apply to hours worked before 7 AM and after 5 PM.
- A minimum one (1) hour is applied for field services.
- All vehicle charges account for a roundtrip originating at Kleinfelder's Irving, Texas office to the project site.
- Additions or deletions to this work scope (estimated quantities) will be adjusted based on the established unit prices shown.

This total estimate will not be exceeded without prior written approval of the client.