



AET Project No. P-0033786
May 15, 2024

ACKNOWLEDGMENT AND AGREEMENT OF SERVICES

The services of American Engineering Testing, Inc., (AET) have been requested for the referenced project by Joshua Skluzacek of the City of Dickinson on May 2, 2024.

Understood information from requesting party includes the following:

Project Name: 2024 Watermain and Lead Service Lines Replacement
Project Address: Dickinson, ND
Client: City of Dickinson
Client Address: 38 1st Street W
Dickinson, ND 58601
Client Contact: Mr. Joshua Skluzacek, PE
Joshua.skluzacek@dickinsongov.com

SERVICE EXTENT/COMMUNICATION:

AET's project Quality Control (QC) testing services will be provided on an on-call basis when requested by Client or authorized representative. We understand our materials testing services as indicated below will be provided for this project as an amendment to the current contract we have with the City of Dickinson for the City of Dickinson 2024 Geotechnical Engineering Services for Various Infrastructure and Engineering Improvements Projects.

UNDERSTOOD SCOPE OF SERVICES INCLUDES THE FOLLOWING:

- Field testing of plastic concrete for air, slump, temperature, and cast cylinders for compression strength as requested.
- Lab testing of concrete cylinders for compression strength.
- Compaction testing on backfill, basecourse, & asphaltic concrete paving.
- Lab testing on soils, basecourse, and bituminous materials (Proctors, sieve analysis, & mix verification).
- Prepare reports presenting the results of the services provided.

This proposal is valid for a period of 180 days from the date issued under the assumption that the project construction will take place in the 2024 calendar year.

99 26th St E | Dickinson, ND 58601
Phone (701)-483-4288 | teamAET.com | AA/EEO

This document shall not be reproduced, except in full, without written approval from American Engineering Testing, Inc.



Estimated Fees: Our services will be provided on a unit cost basis according to the unit rates provided in the attached AET Fee Estimate tabulation. Our monthly invoices will be determined by multiplying the number of personnel hours or tests by their respective unit rates. We have also estimated a total cost we anticipate will be required to complete the previously described testing services. This estimated total cost is based on the information provided, our experience with similar projects and the 35 site visits we base our estimate on. Our estimated total cost will be approximately **\$15,670.00**. We refer you to the attached Fee Estimate for an itemization of how we arrived at this estimated cost.

We caution that this is only an estimated cost. Often, variations in the overall cost of the services occur due to reasons beyond our control, such as construction change orders, weather delays, changes in the contractor's schedule, unforeseen conditions or retesting of services. These variations will affect the actual invoice totals, either increasing or decreasing our total costs for the project from those estimated in this proposal. If more time or tests are required, additional fees may be needed to complete the project testing services. If less time or tests are needed, cost savings will be realized. We have also attached our 2024 ND fee schedule for any other out of scope services that may be required.

TERMS/CONDITIONS:

All AET Services are provided subject to the Terms and Conditions set forth in the above referenced City of Dickinson 2024 Geotechnical Engineering Services for Various Infrastructure and Engineering Improvements Projects Construction Service Agreement – Terms and Conditions, which, upon acceptance of this proposal, are binding upon you as the Client requesting Services, and your successors, assignees, joint ventures and third-party beneficiaries. Please be advised that additional insured status is granted upon acceptance of the proposal.

ACCEPTANCE:

AET requests written acceptance of this proposal in the Authorized Client Representative section below, but the following actions shall constitute your acceptance of this proposal together with the Terms and Conditions and Amendments: 1) issuing an authorizing purchase order for any of the Services described above, 2) authorizing AET's presence on site or 3) written or electronic notification for AET to proceed with any of the Services described in this proposal. Please indicate your acceptance of this proposal by signing below and returning a copy to us. When you accept this proposal, you represent that you are authorized to accept on behalf of the Client.



OTHER ATTACHMENTS (PART OF THIS AGREEMENT)

AET Fee Estimate
2024 North Dakota Construction Material Fee Schedule

AET Representative:

A handwritten signature in blue ink, appearing to read 'Will Diemert'.

Will Diemert
Engineer I
Mobile: 701.840.7403
Email: wdiemert@teamaet.com

Authorized Client Representative:

ACCEPTANCE AND AUTHORIZATION: AET Proposal No. P-0033414

SIGNATURE: _____

PRINTED NAME: _____

COMPANY: _____

ADDRESS: _____

PHONE NUMBER AND EMAIL: _____

DATE: _____

INVOICING INFORMATION (Provide Company AP Department Information, if present.)

AP CONTACT NAME: _____

BILLING/MAILING ADDRESS: _____

AP PHONE NUMBER AND INVOICE EMAIL: _____

P.O. NO./ PROJECT NO.: _____

PROJECT TESTING SERVICES FEE SCHEDULE
2024 Watermain and Lead Service Line Replacement

Dickinson, ND 58601
AET PROPOSAL No. P-0033786



SERVICE DESCRIPTION	PROJECT BUDGET		
	ESTIMATED UNITS	UNIT RATE	BUDGET AMOUNT
<i>Subgrade/Base Proof Roll Observations & Testing</i>			
Subgrade/Base Testing - Technician III for soil compaction testing (assumes 20 trips to the jobsite).	40 Hour	\$115.00	\$4,600.00
Personal or company vehicle mileage.	400 Mile	\$1.20	\$480.00
Nuclear Density Gauge Rental - Daily	20 Day	\$71.00	\$1,420.00
ASTM D698 Standard Proctor	6 Test	\$240.00	\$1,440.00
ASTM C136 Sieve Analysis of Aggregate (Coarse and Fine)	1 Test	\$125.00	\$125.00
	Section Subtotal:		\$8,065.00
<i>Concrete Testing</i>			
Concrete Testing - Technician III for testing of concrete only - NO OBSERVATIONS OF REINFORCING STEEL (assumes 10 trips to the jobsite).	20 Hour	\$115.00	\$2,300.00
Personal or company vehicle mileage.	50 Mile	\$1.20	\$60.00
ASTM C39 Concrete Compressive Strength - Curing, handling and testing of 4" x 8" concrete test cylinders (includes handling of non-tested cylinders).	50 Test	\$32.00	\$1,600.00
	Section Subtotal:		\$3,960.00
<i>Bituminous Observations & Testing</i>			
Bituminous Density Testing - Technician III for Nuclear Density Testing of bituminous material without roll pattern observation (assumes 5 trips to the jobsite)	10 Hour	\$115.00	\$1,150.00
Personal or company vehicle mileage.	20 Mile	\$1.20	\$24.00
Gyratory Mix Properties (Suite of Tests) of bituminous; Rice Specific Gravity test and Gyratory Der	1 Test	\$575.00	\$575.00
Nuclear Density Gauge Rental - Daily	5 Day	\$71.00	\$355.00
	Section Subtotal:		\$2,104.00
<i>Project Management & Coordination</i>			
Project Management - Engineer II/Project Manager for coordination of AET personnel and activities, attending meetings (if requested), consultation and report preparation.	6 Hour	\$165.00	\$990.00
Project Administrator for report preparation, review, invoicing.	6 Hour	\$80.00	\$480.00
	Section Subtotal:		\$1,470.00
	ESTIMATED BUDGET		\$15,670.00

North Dakota 2024 CMT Fee Schedule



AET Employee Personnel Rates		
Service Item	Unit	Rate
Project Administrator	Hour	\$ 80.00
Field Engineer	Hour	\$ 130.00
Engineer, Project Manager, Geologist (Level I)	Hour	\$ 155.00
Engineer, Project Manager, Geologist (Level II)	Hour	\$ 165.00
Senior Engineer, Project Manager, Geologist	Hour	\$ 205.00
Principle Engineer, Project Manager, Geologist	Hour	\$ 240.00
Technician, Level I	Hour	\$ 95.00
Technician, Level II	Hour	\$ 105.00
Technician, Level III	Hour	\$ 115.00
Technician, Level IV	Hour	\$ 120.00
<i>Above Fees +50% Overtime +100% Sunday & Holiday may apply</i>		
Per Diem (meals) for out-of-town Services	Day	\$ 55.00
Direct Project Expenses, i.e. motel, freight	Cost + 15%	
AET Project Direct Expenses		
Service Item	Unit	Rate
4x8-in. Plastic Cylinder Molds	Case	\$ 84.00
6x12-in. Plastic Cylinder Molds	Case	\$ 84.00
Beam Mold Rental (including cleanup)	Mold	\$ 75.00
Bit Wear	Inch	\$ 9.00
Concrete Testing Equipment	Day	\$ 21.00
Generator (if required)	Day	\$ 131.00
Mobile Laboratory Rental (Concrete, Asphalt, or Soil)	Week	\$ 840.00
Patching Material	Each	\$ 65.00
Portable Coring Equipment	Hour	\$ 63.00
AET Vehicle Mileage		
Service Item	Unit	Rate
Mileage	Mile	\$ 1.20
Vehicle Charge – In Town	Each	\$ 55.00
Skid Steer / Bobcat Rental	Day	\$ 850.00
Aggregate		
Service Item	Unit	Rate
AASHTO T 89/90 Atterberg Limited (Plasticity) Dry Prep	Test	\$ 135.00
AASHTO T 89/90 Atterberg Limited (Plasticity) Wet Prep	Test	\$ 190.00
AASHTO T 96 LA Abrasion (w/o gradation)	Test	\$ 290.00
AASHTO T 335 Fractured Particles in Coarse Aggregate	Test	\$ 105.00
ASTM C127 Specific Gravity and Absorption of Coarse Aggregate	Test	\$ 120.00
ASTM C128 Specific Gravity and Absorption of Fine Aggregate	Test	\$ 120.00
ASTM C136 Sieve Analysis of Aggregate (Coarse and Fine)	Test	\$ 125.00
ASTM C136 Sieve Analysis of Coarse Aggregate-unwashed	Test	\$ 110.00
ASTM C136 Sieve Analysis of Fine Aggregate (includes ASTM C117 #200 wash)	Test	\$ 125.00
ASTM C142 Clay Lumps and Friable Particles in Fine Aggregate	Each	\$ 85.00
ASTM C29 Unit Weight of Coarse Aggregate (Loose or Rodded)	Test	\$ 95.00
ASTM C29 Unit Weight of Fine Aggregate (Loose or Rodded)	Test	\$ 95.00

ASTM C88 Soundness of Coarse Aggregate (5 cycles on 5 pans)	Test	\$ 385.00
ASTM C88 Soundness of Fine Aggregate (5 cycles on 5 pans)	Test	\$ 385.00
ASTM D4791 Flat and Elongated Particles	Each	\$ 200.00
Erionite (SEM)	Test	\$ 578.00
Hydrometer ASTM D422 (includes gradation)	Test	\$ 250.00
AASHTO T 113 Lightweight Pieces (shale)	Test	\$ 200.00

Concrete

Service Item	Unit	Rate
ASTM C109 Mortar Cube Compressive Strength individual cube	Test	\$ 35.00
ASTM C39 Concrete Compressive Strength 4x8 Cylinder	Test	\$ 32.00
ASTM C39 Concrete Compressive Strength 6x12 Cylinder	Test	\$ 42.00
ASTM C42 Section 7 Concrete Core Compressive Strength	Test	\$ 105.00
ASTM C642 Density, Absorption, and Voids in Hardened Concrete	Test	\$ 290.00
ASTM C78 Concrete Flexural Strength	Test	\$ 85.00
Compressive Strength of 2x4-in Cylinders	Test	\$ 35.00
ASTM C1140 Preparing Specimens from Shotcrete Panels (6 cores)	Test	\$ 189.00
Compressive Strength of CMU Prisms (Set of 3)	Test	\$ 184.00
Concrete Mix Design per ACI 211	Quote	
Core/Cylinder Preparation (ends)	Test	\$ 32.00
Profilograph Rental	Day	\$ 189.00
Rebar Locator	Day	\$ 142.00
Schmidt Rebound Hammer	Day	\$ 68.00

ND Oil and Gas Sundry Testing

Service Item	Unit	Rate
Cation Exchange Capacity	Test	\$ 81.00
Electrical Conductivity	Test	\$ 40.00
pH/Soil	Test	\$ 35.00
Sodium Absorption Ratio (SAR)	Test	\$ 76.00

Pavements/Bituminous

Service Item	Unit	Rate
ASTM D2172/AASHTO T 164 Quantitative Extraction of Asphalt Binder (with gradation)	Test	\$ 331.00
ASTM D2172/AASHTO T 164 Quantitative Extraction of Asphalt Binder (without gradation)	Each	\$ 239.00
AASHTO T 209 Rice Theoretical Max Specific Gravity of Hot Mix Asphalt	Test	\$ 155.00
ASTM D2726/AASHTO T 166 Bulk Specific Gravity and Density of Asphalt Mixtures	Core	\$ 190.00
Gyratory Mix Properties (Suite of Tests)	Each	\$ 575.00
Laboratory Mix Design	Quote	
Marshall Properties	Test	\$ 665.00
Marshall Stability and Flow	Test	\$ 75.00
NDDOT Superpave SPV Mix Proportioning (SFN Forms)	Test	\$ 600.00
ASTM D2726 Pavement Density and Thickness	Test	\$ 190.00
AASHTO T 176 Sand Equivalent of Fine Aggregate	Test	\$ 240.00
AASHTO T 304 Uncompacted Voids (FAA)	Test	\$ 142.00

Soil and Earthwork Testing		
Service Item	Unit	Rate
ASTM D1557 Modified Proctor	Test	\$ 240.00
ASTM D1883 California Bearing Ratio (CBR) excludes proctor – One Point	Test	\$ 395.00
ASTM D1883 California Bearing Ratio (CBR) excludes proctor – Three Point	Test	\$ 785.00
ASTM D5084 Hydraulic Conductivity by Flexible Wall Permeator	Test	\$ 525.00
ASTM D5084 Hydraulic Conductivity of Remodeled Clay by Flexible Wall Permeator	Test	\$ 700.00
ASTM D5856 Hydraulic Conductivity of Rigid Clay Permeability Test	Test	\$ 525.00
ASTM D5856 Hydraulic Conductivity of Remolded Rigid Clay Permeability Test	Test	\$ 525.00
ASTM D5856 Hydraulic Conductivity of Sand	Test	\$ 325.00
ASTM D698 Standard Proctor	Test	\$ 240.00
Field Density; DCP Rental	Day	\$ 125.00
Field Density; Nuclear Density Gauge Rental	Day	\$ 71.00
Field Density; Test Charge, Nuclear	Test	\$ 37.00
Field Density; Test Charge, Sand Cone	Test	\$ 95.00
One Proctor Checkpoint	Test	\$ 80.00