

November 5, 2024



Saint Paul Regional Water Services
1900 Rice Street
Saint Paul, MN 55113

Attn: Matt Dalrymple, PE
Matthew.dalrymple@ci.stpaulmn.us

RE: Proposal for Geotechnical Exploration
2025 St Paul Contract Drilling
St Paul, Minnesota
AET Proposal No. P-0038250
City of St. Paul Contract No. 4405

Dear Mr. Dalrymple:

American Engineering Testing, Inc. (AET) is pleased to submit a proposal to the Saint Paul Regional Water Services (SPRWS) for this project. In this proposal, we present our understanding of the project, an outline of our scope of services, a fee schedule, and an estimate of charges for our services.

1.0 PURPOSE

The purpose of these services is to explore pavement and subsurface conditions at the site. Based on our characterization of the data obtained from our field exploration, we will prepare a geotechnical data report presenting soil information at the boring locations.

2.0 PROJECT DESCRIPTION

Saint Paul Regional Water Services is requesting 163 borings to depths of 11 feet throughout the City.

3.0 SCOPE OF SERVICES

Based on our communication with SPRWS, you have proposed the following scope of services:

3.1 Field Exploration

- Obtain the necessary City permits for drilling within the right of way.
- Mark the boring locations in the field and arrange clearance of underground public utilities.
- Perform 163 Geoprobe soil borings to a depth of 11 feet each at locations determined by the City.
- Backfill the boreholes per Minnesota Department of Health (MDH) requirements.
- Patch the boring surface with cold-mix bituminous.

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- Document the final soil boring location and surface elevations using a GPS unit having sub-meter accuracy.

Before we drill, we will contact Gopher State One Call to locate public underground utilities. Gopher State One Call does not currently charge for this service, but they will not locate private underground utilities or structures. The marking of any private utilities must be arranged by the property owner prior to our drill crew mobilization. Please see our discussion regarding private underground utilities later in this proposal.

We will drill the boreholes with direct push sampling to a depth of approximately 11-feet. Recovered samples will be sealed to prevent moisture loss and submitted to our laboratory for review, testing and final classification.

We will backfill the boreholes with bentonite grout and cold-mix bituminous. We assume that the boring locations are readily accessible by our truck-mounted drill rig.

3.2 Traffic Control

Traffic control will be performed in accordance with the Minnesota Temporary Traffic Control Field Manual 2018. We understand the majority of the road segments are residential where traffic control is not needed.

We assume either flaggers or lane closures will be needed for the following road segments:

1. Flaggers
 - a. Johnson Parkway between 7th St E and Stillwater Ave E
 - b. Prosperity Ave between Maryland Ave E and Barclay St
2. Lane Closures
 - a. Maryland Ave E between Westminster St and Arkwright St N
 - b. Maryland Ave E between Kennard St N and White Bear Ave
 - c. White Bear Ave between Ivy Ave E and Hyacinth Ave E

There are several road segments along residential roadways where lanes have been painted. We assume we will be able to perform the borings within the parking lanes. However, if underground utilities and/or overhead power require the borings be performed within the driving lanes, flagging will likely be needed which will require a change order.

3.3 Laboratory Testing

We will initiate routine laboratory testing by reviewing each recovered soil sample to assess the major and minor soil components, while also noting the color, degree of saturation, and lenses or seams in the samples.

On completion of testing, we will visually/manually classify the soils according to the USCS and AASHTO soil classification systems. We will then prepare the final subsurface boring logs.



3.4 Report

We will prepare a data report in which we will present the results of our subsurface exploration including boring location map and boring logs. We understand no geotechnical engineering analysis or recommendations are included in the requested scope of services. AET will retain the collected soil samples for 30 days after submittal of the data report.

4.0 SCHEDULE

Weather permitting and based on our current backlog, we anticipate the drilling can be completed within about two to three weeks following authorization to proceed. If authorization is provided by November 13th, 2024, the soil borings should all be completed in 2024, as requested. The report can be submitted within three weeks following the completion of the field work.

5.0 FEES

The scope of services defined above will be performed on a time and materials basis in accordance with the attached Fee Estimate and the breakdown below.

1. Layout, Utility Clearance, and Permitting	\$ 19,886
2. Field Exploration	\$ 58,814
3. Traffic Control	\$ 10,030
4. Laboratory testing	\$ 8,800
5. Project Management and Reporting	<u>\$ 18,365</u>
TOTAL ESTIMATE	\$115,895

In the event the scope of our services needs to be revised, such as additional or deeper borings and additional field or laboratory testing, we will review such scope adjustments and the associated fees with you and receive your approval before proceeding. Additional services will be charged in accordance with the attached fee estimate. Our fees will be in effect for 30 days following the date of this proposal, and fees for services authorized after this expiration date will be subject to review and possible escalation.

6.0 UNDERGROUND UTILITIES

Prior to drilling, we will contact Gopher State One Call to locate public underground utilities; however, Gopher State One Call will not locate private underground utilities or structures. Examples of private utilities include, but are not limited to, propane lines, sewer laterals, sprinkler systems, site lighting, and electric and data lines between buildings. **Gopher State One Call states that the property owner is responsible for locating all private underground utilities and structures.** Please provide us with any maps, plans, and/or records showing the location of all private utilities and structures. The City is responsible for locating any utility tunnels within the bedrock near the boring locations.



We can provide you with names and contact information for private utility locators. These companies usually charge a fee for their services. Also, please note that private locators cannot guarantee that all private utilities will be located. For the private locator to be accurate and effective, the property owner must provide maps, plans and records showing the location of all private utilities and structures. The property owner must also provide a knowledgeable site representative to meet with the private locator and AET personnel.

AET shall be entitled to rely upon the accuracy of all location information supplied by any source. We will not be responsible for any damages to underground utilities or structures not located or incorrectly identified by the property owner, any maps, plans or records, or public or private utility locator providers.

7.0 MINNESOTA DEPARTMENT OF HEALTH FEES

Effective July 1, 2019, the Minnesota Department of Health (MDH) changed the borehole sealing and notification requirements. For sites where borings are drilled to a depth of 15 feet or deeper, all licensed drilling companies are required by law to grout the boreholes upon completion. The MDH requires that a Sealing Record be submitted to the MDH, with a copy to you and the Property Owner, after the borings are completed. For borings extended to a depth of 25 feet or deeper, all licensed drilling companies must submit written notification to the MDH prior to drilling, along with a fee of \$75. Projects that span multiple properties also require multiple notifications.

The above fee estimate for our geotechnical services does not include MDH fees, as the proposed scope of drilling does not include borings 25 feet or deeper. However, final boring depths can change, due to unanticipated poor soil conditions for example. Therefore, the final MDH fee, plus an administrative charge of \$65 per notification, will be added to our final invoice to you, if necessary.

The MDH Notification and Sealing Record requires the Property Owner name and mailing address (the Property Owner will also receive a copy of the Sealing Record). Please provide this information below.

Property Owner's name/company name:

Property Owner's mailing address:

8.0 TERMS AND CONDITIONS

AET services will be performed per the Agreement with the City of Saint Paul, Contract No. 4405, effective January 1, 2024.



9.0 ACCEPTANCE

This proposal is presented in electronic (PDF) form; hard copies can be prepared and mailed to your office upon request. AET requests written acceptance of this proposal in the Proposal Acceptance box 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.

Sincerely,
American Engineering Testing, Inc.

Handwritten signature of Thomas Evans in black ink.

Thomas Evans, PE (MN)
Senior Engineer
tevans@teamAET.com
Phone: (701) 690-9732

Handwritten signature of Justin Staker in black ink.

Justin Staker, PE (MN)
Senior Engineer
jstaker@teamAET.com
Phone: (651) 523-1265

Attachments:
Fee Estimate

ACCEPTANCE AND AUTHORIZATION: AET Proposal No. P-0038250

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.: _____

GEOTECHNICAL SERVICES FEE ESTIMATE
2025 ST PAUL CONTRACT DRILLING
VARIOUS ROADWAYS
ST PAUL, MINNESOTA
AET PROPOSAL No. P-0038250



SERVICE DESCRIPTION	PROJECT BUDGET		
	ESTIMATED UNITS	UNIT RATE	BUDGET AMOUNT
<i>Layout, Utility Clearance, and Permitting</i>			
Engineer, Senior	10 Hour	\$210.00	\$2,100.00
Drilling Technician	81 Hour	\$120.00	\$9,720.00
Company Vehicle Rental	81 Hour	\$30.00	\$2,430.00
Standard Vehicle Mileage	360 Mile	\$1.25	\$450.00
GPS Equipment Rental	8.0 Day	\$200.00	\$1,600.00
Permitting	163 Boring	\$22.00	\$3,586.00
Section Subtotal:			\$19,886.00
<i>Geotechnical Field Services</i>			
Hourly Drilling			
Drilling Technician	279 Hour	\$120.00	\$33,480.00
Auxiliary Vehicle Rental	140 Hour	\$35.00	\$4,900.00
Truck with Drill Rig Rental	140 Hour	\$110.00	\$15,400.00
Auxiliary Vehicle Mileage	340 Mile	\$1.50	\$510.00
Truck with Drill Rig Mileage	340 Mile	\$1.80	\$612.00
Borehole Grouting - Bentonite Grout	1956 Foot	\$2.00	\$3,912.00
Section Subtotal:			\$58,814.00
<i>Traffic Control</i>			
Traffic Control Signs Rental	15 Day	\$150.00	\$2,250.00
Subcontractor (Flaggers)	1 Each	\$2,530.00	\$2,530.00
Subcontractor (Lane Closure)	1 Each	\$5,250.00	\$5,250.00
Section Subtotal:			\$10,030.00
<i>Laboratory</i>			
Classification	80 Hour	\$110.00	\$8,800.00
Section Subtotal:			\$8,800.00
<i>Project Management & Reporting</i>			
Project Administrator	37 Hour	\$80.00	\$2,960.00
Engineer I	55 Hour	\$160.00	\$8,800.00
Senior Engineer	28 Hour	\$210.00	\$5,880.00
Drafter II	5 Hour	\$145.00	\$725.00
Section Subtotal:			\$18,365.00
ESTIMATED BUDGET			\$115,895.00