



**GEOTEK ENGINEERING
& TESTING SERVICES, INC.**
909 East 50th Street North
Sioux Falls, South Dakota 57104
605-335-5512 Fax 605-335-0773

June 22, 2018

City of Mitchell/City Hall
612 North Main Street
Mitchell, SD 57301

Attn: Kyle Croce – Public Works Director

Subj: Cost Proposal
Geotechnical/Materials Testing Services
Slab Assessment
Mitchell Recreation Center
Mitchell, South Dakota

We are pleased to present this cost proposal to provide a slab assessment for the potential voids below the concrete slab-on-grade at the existing Recreation Center in Mitchell, South Dakota.

We understand that a pipe located approximately 6 to 7 feet below the concrete slab-on-grade has burst. At one location (storage room 316 doorway) the concrete slab has heaved upward. In addition, photos were provided that show soil/sand materials on top of the slab. There is also a concern that the burst pipe may have created voids below the slab. You have requested a proposed scope of work to determine the extent of the voids below the slab.

The project will require a specialized team of our staff including a Staff Engineer and/or a Senior Engineering Technician for soil sampling, observations & testing, a Senior Engineering Technician for concrete coring and personnel/subcontractor to provide Ground Penetrating Radar (GPR).

The GPR will be used to complete non-destructive documentation of the slab-on-grade primarily in the area of the distressed slab-on-grade condition. The GPR is typically used to determine location and spacing of rebar, depth of rebar in the slab and approximate thickness of the concrete but can also detect possible voids under the slab and the area the void may extend to. However, GPR cannot determine the depth of the void. The depth of the void will be determined by coring the slab to verify/confirm the actual void depth. It may be necessary to core 6 to 8 locations depending on the result of the GPR scan to determine depth of possible voids.

In addition to the GPR and coring we anticipate hand sample (auger method) to a depth of 2 to 7 feet below the concrete slab. The soil samples will be visually classified and collected from the site and retained for laboratory analysis, if needed. Once the necessary lab tests are retained and the soils have been visually classified, we will fill the hole with a non-shrink grout accordingly.

We will document our findings in a report where we will summarize the field work completed, any lab tests performed and a sketch as needed to summarize the results.

The attached itemization presents our unit costs, estimated units and estimated total. We will not exceed the estimated total without prior authorization. A "General Conditions" sheet is attached as part of our proposal.

GeoTek Engineering and Testing Services, Inc. appreciates the opportunity of being considered for this project. If you have any questions or require additional information, please contact our office.

GeoTek Engineering & Testing Services, Inc.

Shane M. Lindner

Shane M. Lindner
Materials Unit Manager

ACCEPTANCE:

Signature: _____
Printed Name: _____
Title: _____
Date: _____

**COST ITEMIZATION
 CONCRETE CORING & EXPLORATION SERVICES
 MITCHELL RECREATION CENTER
 MITCHELL, SOUTH DAKOTA**

Estimated
 Quantities Estimated
 Costs

CONCRETE CORING & EXPLORATION

Site Work/Lab Testing

* 2 Person Drill Crew	\$450	/trip	1	\$450.00
* Soil Sampling (boring to 2' to 7')	\$225	/boring	8	\$1,800.00
* Concrete Coring Bit Wear (6" Barrel)	\$5	/inch	32	\$160.00
* Patch Holes	\$25	/hole	8	\$200.00
* Concrete Core Machine	\$30	/hour	6	\$180.00
* Lab Testing	\$200	/lump sum	1	\$200.00
* Ground Penetrating Radar (subcontract)	\$5,875	/lump sum	1	\$5,875.00
* Report & Recommendations	\$130	/hour	5	\$650.00
			Total	\$9,515.00

A savings or additional cost of \$285 can be expected for each bore hole not completed or completed

GENERAL CONDITIONS

SECTION 1: PROJECT INFORMATION

1.1 The Client will make available to GeoTek all known information regarding existing and proposed conditions, requirements, and all other information that may affect the cost, progress, safety, and performance of the work. If new information becomes available during GeoTek's work, Client will provide such information to GeoTek in a timely manner.

SECTION 2: SITE ACCESS AND PERMITS

2.1 Client agrees to render reasonable assistance requested by Consultant to enable performance of tests and/or observations without delay or interference, and, upon request of Consultant, to provide suitable work space.

SECTION 3: SAFETY

3.1 The Client shall inform GeoTek of any known or suspected hazardous materials or unsafe conditions at the work site.

3.2 GeoTek shall only be responsible for the safety of GeoTek employees at the work site.

SECTION 4: SAMPLES

4.1 GeoTek will retain nonhazardous samples for a maximum period of 30 (thirty) days of the date of the report. Upon written request, samples can be shipped or stored at the Client's expense.

SECTION 5: RECORDS

5.1 Documents prepared by GeoTek are considered instruments of services that will remain the property of GeoTek. GeoTek will retain these records for a period of five years, during which time the documents will be available to the Client during normal business hours.

SECTION 6: RESPONSIBILITIES

6.1 The work performed by GeoTek will not relieve other parties of their responsibilities to perform work in accordance with the contract documents or specifications.

6.2 GeoTek is not responsible for the interpretations or modifications of GeoTek's recommendations by other parties.

SECTION 7: STANDARD OF CARE

7.1 GeoTek will perform services consistent with the level of care and skill normally performed by other firms in the same profession at the time of our service, geographic area and under similar budgetary constraints. No other warranty, expressed or implied is made.

SECTION 8: LIMITATION OF LIABILITY AND INDEMNITY

8.1 GeoTek will indemnify and hold harmless and defend the Client against any claim, loss, judgment, liability or expense for damage to any property or for the death or injury to any person caused by or arising from the negligent acts or omissions or willful misconduct of GeoTek, its agents and employees pursuant to the performance of this Agreement

8.2 The Client will indemnify and hold harmless and defend GeoTek against any claim, loss, judgment, liability or expense for damage to any property or for the death or injury to any person caused by or arising from the negligent acts or omissions or willful misconduct of the Client, its agents and employees pursuant to the performance of this Agreement.

SECTION 9: INSURANCE

9.1 Consultant will carry Workers Compensation insurance as required by law. Additionally, Consultant will carry public liability and property damage insurance with a minimum limit of liability of \$500,000 per occurrence and \$1,000,000 aggregate. Certificates of insurance will be provided to Client upon request.

SECTION 10: DELAYS

10.1 If GeoTek is delayed in performance due to any cause beyond its reasonable control, such as strike, fire, act of God, government action, acts of a third party, or the Client, a reasonable time extension for performance of the work shall be granted and GeoTek shall receive an equitable fee adjustment.

SECTION 11: ASSIGNMENTS

11.1 Neither party may assign duties or interest in this agreement without the written consent of the other party. Amendments to this agreement may be amended only by written amendments signed by both the Client and GeoTek.

SECTION 12: PAYMENT

12.1 GeoTek will submit invoices on a monthly basis and a final invoice upon completion of services. Payment is due upon receipt of the invoice and is past due 30 days after invoice date.

12.2 The Client is responsible for informing GeoTek of any disagreements or corrections within 15 days of the invoice date. Unless so informed, the invoices are deemed correct.

12.3 The amount of any excise tax or local, state or federal sales tax that may be imposed is not included in the rates for the services provided. The applicable taxes will be added to the actual billings for services.

12.4 Past due invoices are subject to interest charges of up to 1.5% per month.

12.5 The Client will pay all reasonable litigation expenses or collection expense incurred, including attorney fees that GeoTek incurs in collecting any delinquent amount the Client owes under this agreement.

12.6 Consultant reserves the right to withhold any and all written reports until payment terms are satisfied.

SECTION 13: TERMINATION

13.1 This agreement may be terminated by either party for justifiable reasons after seven days written notice.

13.2 The Client agrees to pay GeoTek for all work performed, including reporting costs to complete the file.

SECTION 14: JURISDICTION

14.1 This agreement shall be construed in accordance with laws of the State in which the project is located.

SECTION 15: SEVERABILITY

15.1 If a provision of this agreement is held to violate a law or regulation, that provision shall be deemed void, but all remaining provisions shall continue in force. The Client and GeoTek will, in good faith, attempt to replace the invalid or unenforceable provision with one that is valid and enforceable, and which comes as close as possible to expressing the original intent of the provision.

SECTION 16: ENTIRE AGREEMENT

16.1 This contract represents the entire agreement between the parties, and supersedes all prior representations or agreements.