

RFP-RH-19-066	Materials Testing Consultants, Inc.	Testing Engineers & Consultants, Inc.
Geotechnical Engineering Testing	253 Dino Drive, Suite B	1343 Rochester Road
	Ann Arbor, MI 48103	Troy, MI 48083
Type of Organization	Did not specify.	Corporation
Firm Established	1968	1966
Years in Business	51	53
Years firm has been providing geotechnical engineering services?	Has been providing geotechnical engineering services since 1968 for a total period of 51 years.	Woman-owned firm founded in 1966, has been providing professional consulting engineering and testing services for the built environment for 53+ years. Extensive experience in performing soil exploration services and foundation recommendations as well as pavement design and rehabilitation services. Field Investigation, Field Drilling, Laboratory Testing, Engineering Analysis, Design Review, Field Monitoring, Pavement Coring-Investigation-Design-Rehabilitation and recommendations.
How many years has your company been providing construction material testing and inspection?	Has been providing construction materials testing and inspection services for 51 years.	Has provided these services for 53+ years. Staff and equipment have improved with technological advances and targeted certification programs. Their laboratories have expanded to support the field services and all the personnel are now certified and qualified in their respective fields.
How many clients does your company currently serve with the type of services described? Explain the capacity of the services provided.	Currently providing geotechnical and construction materials testing services for over 250 clients. Offer services in the areas of Geotechnical engineering, construction materials testing, structural services and testing, asbestos and lead consulting and environmental consulting. Prequalified by MDOT to provide Advanced Geotechnical design and currently holds contracts to provide "as-needed" geotechnical services to the University, Southwest and Grand regions as well as the MDOT statewide "as-needed" contract.	They have five core departments, which service hundreds of clients each month. Listing of clients is provided in response.
Provide list of clients references and brief description of services	References provided.	References provided.
How many employees do you employ?	90 Full-time	72 Full-Time 6 Part-Time
How many Geotechnical Engineers?	17	5
How many Geotechnical Technicians?	30	30 Geotechnical/Construction Technicians
Describe the geotechnical and material testing and inspection resources you are capable of bringing to the City.	Staff of 17 civil/geotechnical engineers, 30 MDOT certified technicians, 5 environmental professionals, 7 drill crews, and 10 drill rigs of variable size and capabilities. They are approved by Entergy, DTE Energy, and AEP Indiana Michigan Power to provide geotechnical and material testing services at their nuclear plants.	Several of the staff are affiliated with local universities and can draw upon these outside resources. Maintains a full library with the latest ASTM's, BOCA requirements, AWS, MDOT and AASHTO standards. All equipment is calibrated on a set schedule, records are kept for annual inspections. Prequalified by MDOT for geotechnical engineering and material testing.
Do you have on-site testing facilities?	Has concrete and aggregates, bituminous paving materials, soil and rock laboratory. MTC is accredited by ASTM, AASHTO and MDOT. Southeast Michigan Lab is AASHTO accredited in soils, concrete and aggregates. For accreditation Labs are inspected by AMRL and CCRL for conformance to the requirements of ASTM C1077, D3666 and D3740.	TEC can place a trailer on site with full equipment and personnel. They do this for special projects when results are needed on an immediate basis or when project is a significant distance from TEC office. Their proximity to Rochester Hills allows them to provide services from prequalified labs in their Troy Headquarters.
Submit profiles of staff that will work on City of Rochester Hills projects and examples of similar work performed by each staff member.	Profiles have been submitted.	Profiles have been submitted.
Provide a detailed description of the reports to be submitted to the City on a daily basis and any other applicable information.	Complete list of tests are included in the report.	Complete list of tests are included in the report. Samples included.

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When will the City receive reports?	Reports are completed in the field. Prior to the field technician leaving site a draft report will be made available to the City of Rochester Hills representative on site. MDOT density testing reports will be completed on hard-copy. Most reports will typically be electronically delivered via email within 1-3 days. For Geotechnical projects, they anticipate completing field work within 2-3 weeks and completing geotechnical reports within 1-2 weeks of completion of field work.	A daily preliminary report can be provided by the field technician on site. Final reports are reviewed by TEC Engineering staff and can be made available on the third business day after the test is performed. Reports can be sent via email with a summary disk of all TEC reports at the end of the project.
Describe method of communications with your clients.	Email, phone calls and text messages. Plan to respond same-day to any email or phone communication. If failing test results are encountered in the field, technician will immediately communicate the results to the client contact at the site and the Project Manager through a phone call.	Attending pre-construction meetings, progress meetings and by having their Project Managers contact City's representative to discuss schedule, budget and progress. Techs carry cell phones, and a phone list is generated for their clients.
Can you provide services within 24 hours?	They request that field assignments for materials testing be communicated to them one day in advance, although they are frequently able to accommodate short-notice requests. Geotechnical services that involve contacting Miss Dig, they request at least one week notice prior.	Yes, TEC will respond to the City's request within 24 hours of notification.
Describe your company's policy regarding errors or omissions in plans and specifications.	When E&O are identified in the field, the contractor and the client will be notified. Client will be contacted to discuss the course of action to be taken. In case of missing specifications, MDOT standards and Michigan Building Code may be recommended for reference and use in the project.	Has an established process of implementing checks, in addition to the auditing procedure, to secure confidence that the data provided to its customers are the highest level of quality possible.
Is a contract required? If so, attach a copy of your standard contract.	Yes, attached in response is copy. Contract terms are negotiable.	TEC is familiar with the City's contract and will continue to accept the City's contract terms going forward.
What are your billing procedures?	All invoices will be submitted monthly based on the actual quantities of work performed and the unit rates provided in the cost proposal.	Submits monthly invoices from daily timesheets. For time verification, field technician's daily timesheets are signed by the client prior to leaving site. Net 30 days.
Have you been involved in any litigation during the past five years? If so, provide an explanation.	In litigation for pavement distress in a parking lot.	No.

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	2020	2021	2022	2023	2024		2020	2021	2022	2023	2024
Engineering Services Rates:						Engineering Services Rates:					
Principal of Firm	\$185.00	\$185.00	\$185.00	\$185.00	\$185.00	Principal	\$125.17	\$130.17	\$134.73	\$139.44	\$144.32
Project Engineer	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	Principal II	\$137.09	\$141.89	\$146.86	\$152.00	\$157.32
Project Manager	\$140.00	\$140.00	\$140.00	\$140.00	\$140.00	Professional Engineer	\$119.96	\$124.16	\$128.51	\$133.00	\$137.66
Staff Engineer (Field Engineer)	\$95.00	\$95.00	\$95.00	\$95.00	\$95.00	Project Engineer	\$102.82	\$106.42	\$79.55	\$82.33	\$85.22
Engineering Technician	n/a	n/a	n/a	n/a	n/a	Project Manager	\$101.83	\$104.37	\$108.02	\$111.80	\$115.72
Technician I	\$58.00	\$58.00	\$58.00	\$58.00	\$58.00	Sr. Project Manager	\$114.24	\$118.24	\$122.38	\$126.66	\$131.09
Technician II	\$65.00	\$65.00	\$65.00	\$65.00	\$65.00	Field Engineer	\$85.75	\$88.75	\$91.86	\$95.07	\$98.40
Technician III	\$85.00	\$85.00	\$85.00	\$85.00	\$85.00	Staff Engineer I	\$74.26	\$76.86	\$79.55	\$82.33	\$85.22
Field/Lab Manager	\$110.00	\$110.00	\$110.00	\$110.00	\$110.00	Const. Admin Coord.	\$39.99	\$41.39	\$42.84	\$44.34	\$45.89
Assistant Project Engineer	\$115.00	\$115.00	\$115.00	\$115.00	\$115.00	Technician I	\$34.27	\$35.47	\$36.71	\$38.00	\$39.33
Project Assistant	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	Technician II	\$39.99	\$41.39	\$42.84	\$44.34	\$45.89
Sr. Project Manager	\$160.00	\$160.00	\$160.00	\$160.00	\$160.00	Technician III	\$43.41	\$44.93	\$46.50	\$48.13	\$49.81
Sr. Project Engineer	\$135.00	\$135.00	\$135.00	\$135.00	\$135.00	Inspector	\$51.41	\$53.21	\$55.07	\$57.00	\$58.99
						*More positions with pay rate in response					
Engineering Services Rate						Engineering Services Rate					
Technician IV	\$88.00	\$88.00	\$88.00	\$88.00	\$88.00	Structural Engineer	\$102.82	\$106.42	\$110.14	\$114.00	\$117.99
						Civil Engineer	\$102.82	\$106.42	\$110.14	\$114.00	\$117.99
						Environmental Scientist	\$102.82	\$106.42	\$110.14	\$114.00	\$117.99
						Sr. Project Geologist	\$102.82	\$106.42	\$110.14	\$114.00	\$117.99
Identify all direct and indirect costs, including any and all minimums relative to hourly rates and other cost categories.	Direct costs include travel and technician time, report review, scheduling and project management. Indirect costs are administrative costs and are included in developing rates for direct costs. Minimum field assignment is 4 hours per trip. Rates will remain constant for the contract period.					Identify all direct and indirect costs, including any and all minimums relative to hourly rates and other cost categories.	Two hour minimum. Hourly rates include all direct and indirect costs. Overtime will apply for technician at 1.333 times the hourly rate for hours in excess of 8 hours Monday through Friday and Saturday. 1.67 times the hourly rate for Sunday and Holidays.				
Laboratory Testing Services:	2020	2021	2022	2023	2024	Laboratory Testing Services:	2020	2021	2022	2023	2024
Aggregates						Aggregates	\$190.29	\$196.56	\$203.44	\$210.56	\$217.93
Washed Gradations:						Washed Gradations:					
1/2" Maximum or Larger	\$160.00	\$160.00	\$160.00	\$160.00	\$160.00	1/2" Maximum or Larger	\$68.55	\$70.95	\$73.43	\$76.00	\$78.66
3/4" Maximum or Larger	\$160.00	\$160.00	\$160.00	\$160.00	\$160.00	3/4" Maximum or Larger	\$85.68	\$88.68	\$91.78	\$95.00	\$98.32
Abrasion (LA Machine)	\$400.00	\$400.00	\$400.00	\$400.00	\$400.00	Abrasion (LA Machine)	\$228.49	\$236.49	\$244.77	\$253.33	\$262.20
Sulfate Soundness, per cycle	\$750.00	\$750.00	\$750.00	\$750.00	\$750.00	Sulfate Soundness, per cycle	\$114.24	\$118.24	\$122.38	\$126.66	\$131.09
Mix Design Verification, per agg.	Quoted	Quoted	Quoted	Quoted	Quoted	Mix Design Verification, per agg.	\$171.37	\$177.36	\$183.57	\$189.99	\$196.64
Deleterious Substances-visual pick	\$107.00	\$107.00	\$107.00	\$107.00	\$107.00	Deleterious Substances-visual pick	\$57.12	\$59.12	\$61.19	\$63.33	\$65.55
Moisture Density Tests	2020	2021	2022	2023	2024	Moisture Density Tests	2020	2021	2022	2023	2024
Modified Proctor (ASTM D1557, AASHTO T180)	\$205.00	\$205.00	\$205.00	\$205.00	\$205.00	Modified Proctor (ASTM D1557, AASHTO T180)	130.11	133.36	138.03	142.86	147.86
Standard Proctor (ASTM D698, AASHTO T99)	\$175.00	\$175.00	\$175.00	\$175.00	\$175.00	Standard Proctor (ASTM D698, AASHTO T99)	\$131.38	\$135.98	\$140.74	\$145.67	\$150.76
Portland Cement Concrete	2020	2021	2022	2023	2024	Portland Cement Concrete	2020	2021	2022	2023	2024
Concrete Compression Test, Each	\$19.00	\$19.00	\$19.00	\$19.00	\$19.00	Concrete Compression Test, Each	12.57	13.01	13.47	13.94	14.42
Flexural Tests on Concrete Beams	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00	Flexural Tests on Concrete Beams	\$22.85	\$23.65	\$24.48	\$25.33	\$26.22
Concrete Mix Design Preparation	Quoted	Quoted	Quoted	Quoted	Quoted	Concrete Mix Design Preparation	\$198.00	\$206.93	\$214.17	\$221.67	\$229.43
Equipment Charges	2020	2021	2022	2023	2024	Equipment Charges	2020	2021	2022	2023	2024
Nuclear Moisture/Density Gauge, per day	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	Nuclear Moisture/Density Gauge, per day	\$13.00	\$14.00	\$14.49	\$15.00	\$15.52
Field Marshall Test Equipment, per day	N/A	N/A	N/A	N/A	N/A	Field Marshall Test Equipment, per day	N/C	N/C	N/C	N/C	N/C
MDOT Michigan Cone Density Test Equipment, per day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	MDOT Michigan Cone Density Test Equipment, per day	N/C	N/C	N/C	N/C	N/C
Reimbursable Expenses	2020	2021	2022	2023	2024	Reimbursable Expenses	2020	2021	2022	2023	2024
Overnight Mail Charges	Quoted	Quoted	Quoted	Quoted	Quoted	Overnight Mail Charges	\$11.43	\$11.83	\$12.24	\$12.67	\$13.12
Transportation Charges	\$140/Trip	\$140/Trip	\$140/Trip	\$140/Trip	\$140/Trip	Transportation Charges-Per mile	0.68	0.71	\$0.73	0.76	0.76
Asphalt Materials per Sample	2020	2021	2022	2023	2024	Asphalt Materials per Sample	2020	2021	2022	2023	2024
Extraction Tests	\$370.00	\$370.00	\$370.00	\$370.00	\$370.00	Extraction Tests	\$137.09	\$141.89	\$146.86	\$152.00	\$157.32

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Marshall Properties (stability, flow, unit wt)	\$190.00	\$190.00	\$190.00	\$190.00	\$190.00	Marshall Properties (stability, flow, unit wt)	\$155.25	\$160.68	\$166.30	\$172.12	\$178.15
Theoretical Maximum Specific Gravity-Rice's Method	\$220.00	\$220.00	\$220.00	\$220.00	\$220.00	Theoretical Maximum Specific Gravity-Rice's Method	\$155.25	\$160.68	\$166.30	\$172.12	\$178.15
Asphalt Recovery by Abson Method (ACI 211)	Quoted	Quoted	Quoted	Quoted	Quoted	Asphalt Recovery by Abson Method (ACI 211)	\$125.00	\$125.00	\$129.38	\$133.90	\$138.59
Service/Charges:	2020	2021	2022	2023	2024	Service/Charges:	2020	2021	2022	2023	2024
Per Diem - Meals (overnight assignments)	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	Lane Tie Testing Equipment	\$10.00	\$10.00	\$10.35	\$10.71	\$11.09
						Boring Layout-per hour	\$97.11	\$100.51	\$104.03	\$107.67	\$111.44
Do you charge an administrative overhead? Please explain.	No.					Do you charge an administrative overhead? Please explain.	No.				
List any exceptions/alternatives to the specifications	N/A					List any exceptions/alternatives to the specifications	No				