

ENGINEERING SERVICES AGREEMENT

THIS AGREEMENT is made and entered into by and between the Fort Bend Grand Parkway Toll Road Authority, a transportation corporation organized and operating under the laws of the State of Texas, hereinafter called the "FBGPTRA" and Geotest Engineering, Inc., hereinafter called "Engineer."

WITNESSETH

WHEREAS, the FBGPTRA desires to enter into an agreement with Engineer for the performance of services related to the maintenance of the Fort Bend Grand Parkway Toll Road, Segments C & D (the "Project"), which are within the "Scope of Services", as defined below.

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth below, the parties agree as follows:

AGREEMENT

1. General

The Engineer shall render professional services to FBGPTRA related to the Project as defined in the Scope of Services in Attachment A.

The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of Engineer's profession practicing under similar conditions at the same time and in the same locality.

2. Compensation and Payment

- a. The Maximum Compensation under this contract is \$25,000.00. The amount paid under this Agreement may not exceed the Maximum Compensation without an approved change order.

Compensation for the performance of services within the Scope of Services described in Attachment A shall be in accordance with the billing rates shown in Attachment B, with total compensation not to exceed \$25,000.00. Payments for work detailed in Attachment A will be made as such work is performed.

The Engineer shall furnish satisfactory documentation of such work (e.g. timesheets, billing rates, classifications, invoices, etc.) as may be required by FBGPTRA.

- b. All performance of the Scope of Services and any services outside the Scope of Services ("Additional Services"), including changes in the contractual scope of work and revision of work satisfactorily performed, will be performed only when approved in advance and authorized by the FBGPTRA, and Additional Services will be reimbursed based on the billing rates in effect at that time, to the extent that

such labor costs and subcontracts are reasonable and necessary for the performance of such services. Out-of-pocket expense costs may be reimbursed only when approved in advance and authorized by the FBGPTRA. Payment for out-of-pocket expense costs will be made on the basis of a project completion certificate and time and expense records and in accordance with those payment procedures set forth in subparagraph d. below. Billing rates will be inclusive of all direct labor, fringe benefits, general overhead, and profit.

- c. Where subcontractors are employed by the Engineer to perform pre-approved and pre-authorized Additional Services, the Engineer will be reimbursed for subcontractors' actual salaries and hourly rates, including overtime rates. Reimbursement to the subcontractor for non-salary costs incurred by subcontractor will be on the same basis as if the cost was incurred by the Engineer. For subcontractors employed for the convenience of the FBGPTRA, the Engineer will be paid a subcontract administrative fee equal to ten percent (10%) of all subcontractor invoiced amounts.
- d. It is understood and agreed that monthly payments will be made to the Engineer by the FBGPTRA based on the following procedures: On or about the fifteenth day of each month during the performance of services hereunder and on or about the fifteenth day of the month following completion of all services hereunder, the Engineer shall submit to the FBGPTRA one copy of invoices showing the amounts due for services performed during the previous month, set forth separately for work under this Agreement and for any Additional Services (accompanied by supporting certified time and expense records of such charges in a form acceptable to the FBGPTRA). It is specifically understood that any requests for travel reimbursements shall comply with those procedures for travel reimbursement to Fort Bend County (the "County") employees established by the Fort Bend County Auditor (the "Auditor"). The FBGPTRA shall review such invoices and approve them within 30 calendar days with such modifications as are consistent with this Agreement and forward same to the Auditor. The County shall pay each such invoice as approved by the FBGPTRA within thirty (30) calendar days after the FBGPTRA's approval of same.

3. Time of Performance

It is understood and agreed that the time for performance of the Engineer's services under this Agreement shall begin with receipt of the Notice to Proceed and end on December 31, 2020.

4. The FBGPTRA's Option to Terminate

- a. The FBGPTRA has the right to terminate this Agreement at its sole option at any time, with or without cause, by providing 30 days written notice of such intentions to terminate and by stating in said notice the "Termination Date" which shall be less than 30 days later than the actual receipt of such written notice by the Engineer. Upon such termination, the FBGPTRA shall compensate the Engineer in

accordance with Section 2 above, for those services which were provided under this Agreement prior to its termination and which have not been previously invoiced to the FBGPTRA. The Engineer's final invoice for said services will be presented to and paid by the FBGPTRA in the same manner set forth in Section 2 above.

- b. Termination of this Agreement and payment as described in subsection (a) of this Section shall extinguish all rights, duties, obligations, and liabilities of the FBGPTRA and the Engineer under this Agreement, and this Agreement shall be of no further force and effect, provided, however, such termination shall not act to release the Engineer from liability for any previous default either under this Agreement or under any standard of conduct set by common law or statute. The obligations in Sections 5, 6, and 14 of this Agreement shall survive the termination of this Agreement.
- c. If the FBGPTRA terminates this Agreement as provided in this Section, no fees of any type, other than fees due and payable at the Termination Date, shall thereafter be paid to the Engineer.
- d. The FBGPTRA's rights and options to terminate this Agreement, as provided in any provision of this Agreement shall be in addition to, and not in lieu of, any and all rights, actions, and privileges otherwise available under law or equity to the FBGPTRA by virtue of this Agreement or otherwise. Failure of the FBGPTRA to exercise any of its said rights, actions, options, or privileges to terminate this Agreement as provided in any provision of this Agreement shall not be deemed a waiver of any rights, actions, or privileges otherwise available under the law or equity with respect to any continuing or subsequent breaches of this Agreement or of any other standard of conduct set by common law or statute.
- e. Copies of all completed and partially completed documents prepared under this Agreement shall be delivered to the FBGPTRA within 30 days of the Termination Date or upon Engineer's receipt of fees due and payable at the Termination Date, whichever is sooner, when and if this Agreement is terminated.

5. Inspection of the Engineer's Books and Records

The Engineer will permit the FBGPTRA, or any duly authorized agent of the FBGPTRA, to inspect and examine the books and records of the Engineer for the purpose of verifying the amount of work performed on the Project. FBGPTRA's right to inspect survives the termination of this Agreement for a period of four years.

6. Ownership and Reuse of Documents

All documents, including original drawings, estimates, specifications, field notes, and data created, produced, developed or prepared by Engineer or its approved outside advisory or support consultants (collectively, the "Documents") shall be the property of the FBGPTRA, subject to all of the following terms and conditions; provided, however, FBGPTRA shall not own and shall have no right to receive any documents not deemed

“final” by the Engineer until completion or termination of this Agreement, as applicable. Engineer will deliver the Documents to FBGPTRA within 30 days of the completion or termination of this Agreement and may retain a set of reproducible record copies of the Documents, provided that the Engineer has received full compensation due pursuant to the terms of this Agreement. It is mutually agreed that FBGPTRA will use the Documents solely in connection with the Project and for no other purposes, except with the express written consent of the Engineer, which consent will not be unreasonably withheld. Any use of the Documents without the express written consent of the Engineer will be at FBGPTRA’s sole risk and without liability or legal exposure to Engineer.

FBGPTRA shall also be the owner of all intellectual property rights of the services rendered hereunder, including all rights of copyright therein. It is the intention of Engineer and FBGPTRA that the services provided are a “work for hire” as the term is used in the federal Copyright Act. Moreover, Engineer hereby agrees to assign, and by these presents, does assign to FBGPTRA, all of Engineer’s worldwide right, title, and interest in and to such work product and all rights of copyright therein.

Engineer agrees that all trademarks, trade names, service marks, logos, or copyrighted materials of FBGPTRA that Engineer is permitted to use in connection with the services will not be used without FBGPTRA’s consent and shall remain the sole and exclusive properties of FBGPTRA, and this Agreement does not confer upon Engineer any right or interest therein or in the use thereof.

7. Personnel, Equipment, and Material

- a. The Engineer represents that it presently has, or is able to obtain, adequate qualified personnel in its employment for the timely performance of the Scope of Services required under this Agreement and that the Engineer shall furnish and maintain, at its own expense, adequate and sufficient personnel and equipment, in the opinion of the FBGPTRA, to perform the Scope of Services when and as required and without delays. It is understood that the FBGPTRA will approve assignment and release of all key Engineer personnel and that the Engineer shall submit written notification of all key Engineer personnel changes for the FBGPTRA’s approval prior to the implementation of such changes. For the purpose of this Agreement, key Engineer personnel are defined as: Project Manager. Services described in this Agreement shall be performed under the direction of an engineer licensed to practice professional engineering in the State of Texas.
- b. All employees of the Engineer shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of the Engineer who, in the opinion of the FBGPTRA, is incompetent, or, by his conduct, becomes detrimental to the Project, shall, upon request of the FBGPTRA, immediately be removed from association with the Project.
- c. Except as otherwise specified, the Engineer shall furnish all equipment, transportation, supplies, and materials required for its operation under this Agreement.

8. Items to be furnished to Engineer by the FBGPTRA

As applicable, the following items will be supplied to the Engineer:

- a. Copies of preliminary studies by others.
- b. Assistance in coordination with all utility companies.
- c. Assistance in coordination with all public and governmental entities.

9. Subletting

The Engineer shall not sublet, assign, or transfer any part of its rights or obligations in this Agreement without the prior written approval of the FBGPTRA. Responsibility to the FBGPTRA for sublet work shall remain with the Engineer.

10. Conference

At the request of the FBGPTRA, the Engineer shall provide appropriate personnel for conferences at its offices, or attend conferences at the various offices of the FBGPTRA, or at the site of the Project, and shall permit inspections of its offices by the FBGPTRA, or others when requested by the FBGPTRA.

11. Appearance as Witness

If requested by the FBGPTRA, or on its behalf, the Engineer shall prepare such engineering exhibits and plans as may be requested for all hearings and trials related to the Project and, further, it shall prepare for and appear at conferences at the office of the FBGPTRA and shall furnish competent expert engineering witnesses to provide such oral testimony and to introduce such demonstrative evidence as may be needed throughout all trials and hearings with reference to any litigation relating to the Project. Trial preparation and appearance by the Engineer in courts regarding litigation matters are Additional Services and compensation will be paid in accordance with Section 2(b).

12. Compliance with Laws

The Engineer shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including, without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations. When required, the Engineer shall furnish the FBGPTRA with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

13. Insurance

The Engineer shall obtain and maintain, throughout the term of the Agreement, insurance of the types and in the minimum amounts set forth in Attachment C.

14. Indemnification

With respect to claims brought by third parties against either Engineer or the FBGPTRA relating to the property or facilities with respect to which this Agreement pertains, Engineer and the FBGPTRA agree as follows:

- a. **ENGINEER WILL INDEMNIFY AND HOLD HARMLESS THE FBGPTRA, ITS DIRECTORS, OFFICERS, AND EMPLOYEES AGAINST ANY CLAIMS, DEMANDS OR CAUSES OF ACTION; AND COSTS, LOSSES, LIABILITIES, EXPENSES AND JUDGMENTS INCURRED IN CONNECTION THEREWITH, INCLUDING REASONABLE ATTORNEY'S FEES AND COURT COSTS, BROUGHT BY ANY OF ENGINEER'S EMPLOYEES OR REPRESENTATIVES, OR BY ANY OTHER THIRD PARTY, BASED UPON, IN CONNECTION WITH, RESULTING FROM OR ARISING OUT OF THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF ENGINEER; HOWEVER, ENGINEER'S CONTRACTUAL OBLIGATION OF INDEMNIFICATION SHALL NOT EXTEND TO THE NEGLIGENCE OR OTHER FAULT OF THE FBGPTRA OR STRICT LIABILITY IMPOSED UPON THE FBGPTRA AS A MATTER OF LAW (INCLUDING STRICT LIABILITY IMPOSED UPON THE FBGPTRA AS A RESULT OF THE CONDITION OF THE PROPERTY OR FACILITIES WITH RESPECT TO WHICH THIS AGREEMENT PERTAINS).**
- b. In the event that both the FBGPTRA and Engineer are adjudicated negligent or otherwise at fault or strictly liable without fault with respect to damage or injuries sustained by the claimant, each shall be responsible for its own costs of litigation and pro rata share of damages as determined by the proceedings.

It is a condition precedent to the indemnitor's contractual obligation of indemnification under this Agreement that the party seeking indemnity shall provide written notice of a third party claim, demand, or cause of action within 30 days after such third party claim, demand, or cause of action is received by the party seeking indemnity. It is a further condition precedent to the indemnitor's contractual obligation of indemnification under this Agreement that the indemnitor shall thereafter have the right to participate in the investigation, defense, and resolution of such third party claim.

15. Dispute Resolution

Except as expressly provided in Section 4. Option to Terminate, if a dispute arises out of, or relates to, the breach thereof, and if the dispute cannot be settled through negotiation, then the FBGPTRA and the Engineer agree to submit the dispute to mediation. In the event the FBGPTRA or the Engineer desires to mediate any dispute, that party shall notify the other party in writing of the dispute desired to be mediated. If the parties are unable to resolve their differences within 10 days of the receipt of such notice, such dispute shall be submitted for mediation in accordance with the procedures and rules of the American Arbitration Association (or any successor organization) then in effect. The deadline for

submitting the dispute to mediation can be changed if the parties mutually agree in writing to extend the time between receipt of notice and submission to mediation. The expenses of the mediator shall be shared 50 percent by the FBGPTRA and 50 percent by the Engineer. This requirement to seek mediation shall be a condition required before filing an action at law or in equity.

16. Delivery of Notices, Etc.

- a. All written notices, demands, and other papers or documents to be delivered to the FBGPTRA under this Agreement, shall be delivered to the Fort Bend Grand Parkway Toll Road Authority, 1950 Lockwood Bypass, Richmond, Texas 77469, Attention: Mike Stone, or at such other place or places as it may from time to time designate by written notice delivered to the Engineer. For purposes of notice under this Agreement, a copy of any notice or communication hereunder shall also be forwarded to the following address: Fort Bend County Clerk, 301 Jackson Street, Richmond, Texas 77469, Attention: County Judge.
- b. All written notices, demands, and other papers or documents to be delivered to the Engineer under this Agreement shall be delivered to Geotest Engineering, Inc., 5600 Bintliff, Houston, Texas 77036, Attention: Ravi Raj Yanamandala, or such other place or places as the Engineer may designate by written notice delivered to the FBGPTRA.

17. Reports of Accidents, Etc.

Within 24 hours after the occurrence of any accident or other event which results in, or might result in, injury to the person or property of any third person (other than an employee of the Engineer), whether or not it results from or involves any action or failure to act by the Engineer or any employee or agent of the Engineer and which arises in any manner from the performance of this Agreement, the Engineer shall send a written report of such accident or other event to the FBGPTRA, setting forth a full and concise statement of the facts pertaining thereto. The Engineer shall also immediately send the FBGPTRA a copy of any summons, subpoena, notice, other documents served upon the Engineer, its agents, employees, or representatives, or received by it or them, in connection with any matter before any court arising in any manner from the Engineer's performance of work under this Agreement.

18. The FBGPTRA's Acts

Anything to be done under this Agreement by the FBGPTRA may be done by such persons, corporations, or firms as the FBGPTRA may designate.

19. Limitations

Notwithstanding anything herein to the contrary, all covenants and obligations of the FBGPTRA under this Agreement shall be deemed to be valid covenants and obligations only to extent authorized by the Act creating the FBGPTRA and permitted by the laws and the Constitution of the State of Texas. This Agreement shall be governed by the laws of

the State of Texas, and no officer, director, or employee of the FBGPTRA shall have any personal obligation hereunder.

20. Captions Not a Part Hereof

The captions of subtitle of the several sections and divisions of this Agreement constitute no part of the content hereof, but are only labels to assist in locating and reading the provisions hereof.

21. Controlling Law, Venue

This Agreement shall be governed and construed in accordance with the laws of the State of Texas. The parties hereto acknowledge that venue is proper in Fort Bend County, Texas, for all disputes arising hereunder and waive the right to sue or be sued elsewhere.

Engineer certifies and agrees that it (i) does not, nor will not, so long as the Agreement remains in effect, boycott Israel, as such term is defined in Chapter 808, Texas Government Code, and (ii) is not identified on a list prepared and maintained under Sections 806.051, 807.051, or 2252.153, Texas Government Code.

22. Successors and Assigns

The FBGPTRA and the Engineer bind themselves and their successors, executors, administrators, and assigns to the other party of this Agreement and to the successors, executors, administrators, and assigns of the other party, in respect to all covenants of this Agreement.

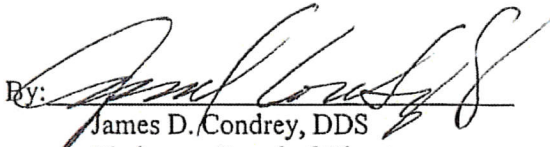
23. Appendices

The Appendices attached to this Agreement, which consists of:

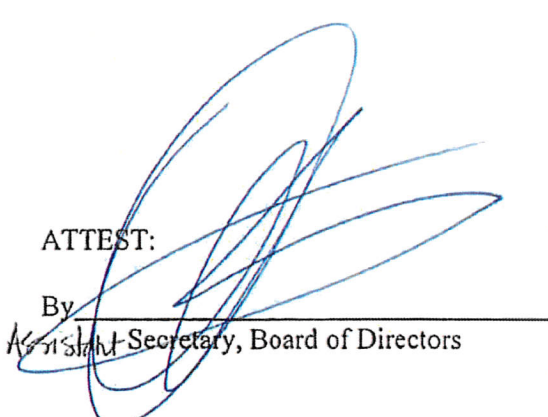
Attachment A	Scope of Services
Attachment B	Compensation for Scope of Services
Attachment C	Insurance Requirements

IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts to be effective on the 2nd day of April 2019.

FORT BEND GRAND PARKWAY TOLL ROAD
AUTHORITY, a Texas local government
corporation

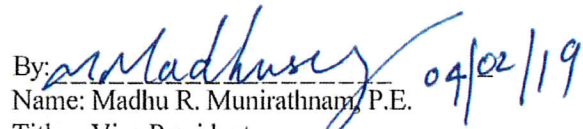
By: 
James D. Condrey, DDS
Chairman, Board of Directors

ATTEST:

By: 
Assistant Secretary, Board of Directors



Geotest Engineering, Inc.
ENGINEER

By: 
Name: Madhu R. Munirathnam, P.E.
Title: Vice President

EFFECTIVE DATE

THIS AGREEMENT IS EFFECTIVE ON THE DATE IT IS APPROVED BY THE FORT BEND COUNTY COMMISSIONERS COURT, AND IF NOT SO APPROVED SHALL BE NULL AND VOID.

DATE OF COMMISSIONERS COURT APPROVAL: -----

AGENDA ITEM NO.: -----

**ATTACHMENT A
SCOPE OF SERVICES**

FORT BEND GRAND PARKWAY TOLL ROAD

CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES

GENERAL DESCRIPTION

Provide construction materials testing and inspection services on an On-Call basis, mostly to support on-going maintenance of the Fort Bend Grand Parkway. The work may include materials such as embankment, stabilized subgrade, base, asphalt, concrete pavement, concrete structures, foundations, etc. All work is to Texas Department of Transportation (TxDOT) specifications.

SCOPE OF SERVICES

Scope of services covered in this proposal will consist of all required materials testing and inspection to ensure the work meets TxDOT specifications. The following services are expected to be performed:

- Moisture/density relationship of soils / stabilized soils
- The atterberg limits / percent soil passing No. 20 sieve / soils classification
- Compaction testing of subgrade soils, compaction testing of fill / backfill
- Compressive strength testing of concrete test cylinders
- Compressive strength of cement stabilized sand
- Asphalt testing
- Material mix design review
- Other testing or inspection services as required

Working hours for testing and inspection staff will not be limited to 7 a.m. to 5 p.m. on weekdays, and may include night and weekend work with proper notification.

ATTACHMENT B
GEOTEST ENGINEERING, INC.
5600 Bintliff Drive Houston, Texas 77036 Tel (713) 266-0588, Fax 713-266-2977

FEE SCHEDULE
CONSTRUCTION MATERIALS
TESTING & INSPECTION SERVICES
Fort Bend Grand Parkway Toll Road Authority - On Call Fee Schedule

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PERSONNEL

10100 Principal	\$220.00	/ Hr
10200 Senior Engineer	\$183.00	/ Hr
10300 Project Engineer	\$149.00	/ Hr
10400 Graduate Engineer	\$101.00	/ Hr.
10500 Sr. Technician/Inspector (Minimum 4 Hours)	\$90.00	/ Hr
10501 Sr. Technician/Inspector (OT)	\$135.00	/ Hr
10600 Sr. Technician (Minimum 4 Hours)	\$75.00	/ Hr
10601 Sr. Technician (OT)	\$112.50	/ Hr
10700 Technician (Minimum 4 Hours)	\$65.00	/ Hr
10701 Technician (OT)	\$97.50	/ Hr
11000 Senior Welding Inspector, SCWI	\$120.00	/ Hr
11100 Welding Inspector, CWI, ACCP II	\$96.00	/ Hr
11200 Associate Welding Inspector (ACWI)	\$76.00	/ Hr
11300 Inspector, ASNT III	\$96.00	/ Hr
11500 Support Personnel (Word Processing)	\$66.00	/ Hr
11600 NACE Inspector	\$110.00	/ Hr
15000 Vehicle Charge	\$75.00	/ trip
15500 Rebar Pull Test Equipment	\$100.00	/ day
15100 REIMBURSABLE EXPENSES	Cost plus 10%	

AGGREGATES

20100 Sieve Analysis - Coarse Aggregates (C 136 - C)	\$55	/ Ea
20200 Sieve Analysis - Fine Aggregates (C 136 - F)	\$55	/ Ea
20300 Rel.Density & Abs. - Coarse Aggregates (C 127)	\$84	/ Ea
20400 Re.Density & Abs. - Fine Aggregates (C 128)	\$102	/ Ea
20500 Bulk Density & Voids in Aggregate (C 29)	\$40	/ Ea
20600 Absorption - Coarse Aggregates (C 127)	\$47	/ Ea
20700 Absorption - Fine Aggregates (C 128)	\$47	/ Ea
20800 Finer than 75 um(No. 200) Sieve (C 117)	\$50	/ Ea
20900 Organic Impurities in Fine Aggregates (C 40, C 131 or C)	\$49	/ Ea
21000 L.A. Abrasion (-535)	\$215	/ Ea
21100 Clay Lumps and Friable Particles (C 142)	\$56	/ Ea
21200 Lightweight Particles (C 123)	\$66	/ Ea
21300 Sand Equivalent (D-2419)	\$67	/ Ea
21400 Na/Mg Sulfate Soundness (5 cycles) (C 88)	\$365	/ Ea
21500 Na/Mg Sulfate Soundness (Add'l cycles) (C 88)	\$210	/ Ea

PORTLAND CEMENT CONCRETE

30100 Compressive Str. (Cylinder) (C-39)	\$18	/ Ea
30200 Flexural Str.(Beam) (C-78)	\$28	/ Ea
30300 Split Tensile Str. (Incl. Prep) (C 496)	\$113	/ Ea
30400 Time of Set by Penetration (C 403)	\$330	/ Ea
30500 Linear Shrinkage & Thermal Coef (Bar) (C 531)	\$338	Set of 3
30600 Leng Cha of Hydra-Cement Mortar and Conc C 490 & C 157	\$120	Set of 3
30700 Density of Structural Lwt. Concrete (C 667)	\$84	/Ea
30800 Concrete Coring, Minimum Charge (C 42)	\$348	Min
30900 Concrete Coring (4" diameter to 6" Thickness) (C 42)	\$108	/ Ea
31000 Concrete Coring, additional thickness (6" to 12") (C 42)	\$10	In.
31100 Concrete Coring, additional thickness (Over 12") (C 42)	\$12	In.
31200 Preparation of Core, Cap & Test (C 42)	\$80	/ Ea
31300 Measuring Length of Core (C 174)	\$13	/Ea
31400 Pachometer Survey (Magnetic Induction)	\$94	Day

GEOTEST ENGINEERING, INC.
 5600 Bintliff Drive Houston, Texas 77036 Tel (713) 266-0588, Fax 713-266-2977

**FEE SCHEDULE
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Fort Bend Grand Parkway Toll Road Authority - On Call Fee Schedule

31500 Probe Penetration Test Equipment (plus probes) (C 803) \$95 Day

HMAC

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40100 Mix Design Review	\$224	/Ea
40200 HMAC Design (In-Place)	\$2,244	/Ea
40300 Trail Batch (up to 5 points)	\$1,684	/Ea
40400 Additional Points	\$242	/Ea
40500 Extraction/Gradation (Tex - 210F)	\$209	/Ea
40600 Specific Gravity (D 2041 & 201F)	\$74	/Ea
40700 HVEEM Stability (Tex - 208F)	\$98	Set
40800 Bulk Density - Lab Molded or Core (Tex - 207F)	\$55	Set
40900 Bulk Density Core (Tex - 207F)	\$49	/Ea
41000 Molding Specimens (Tex - 206F)	\$65	Set
41100 Maximum Theoretical Specific Gravity (Tex - 227F)	\$94	/Ea
41200 Apparent Specific Gravity (Tex - 202F)	\$70	/Ea
41300 Absorb Recovery (Tex - 211F)	\$337	/Ea
41400 Moisture Susceptibility (Tex - 531C)	\$491	/Ea
41500 Penetration (D 5)	\$89	/Ea
41600 Ductility (D 113)	\$119	/Ea
41700 Viscosity (D 2170)	\$98	/Ea
41800 Asphalt Coring, Minimum Charge	\$348	Min
41900 Asphalt Coring (4" Dia. To 6" Thickness)	\$96	/Ea
42000 Asphalt Coring (4" Dia. Over 6" Thickness)	\$8	In.
42100 Asphalt Core Measurement	\$10	/Ea
42200 Measuring Thickness of Asphalt	\$10	/Ea
42300 PMA Extraction/Gradation (D 2172)	\$281	/Ea
42400 PMA Extraction/Gradation (D 6307)	\$174	/Ea
42500 Asphalt Content (D 4125)	\$84	/Ea

STRUCTURAL STEEL

50100 Radiographic Source, Iridium	\$127	Day
50200 Radiographic Source, Cobalt 60	\$146	Day
50300 Ultrasonic equipment (E 114, E 273, E 587 & E 797)	\$94	Day
50400 Magnetic Particle Inspection Equipment (E 709)	\$35	Day
50500 Skidmore-Wilhelm Tension Indicator	\$140	Day
50600 Torque Wrench	\$42	Day
50700 Discontinuity (Holiday) Equipment	\$98	Day
50800 Dry Film Thickness Equipment (Tooke Gauge) (D 4138)	\$35	Day
50900 Dry Film Thickness Equipment (Magnetic) (D 7091)	\$35	Day

MASONRY

60100 Compressive Strength, Mortar Cubes (C 109)	\$144	Set 6
60200 Compressive Strength, Mortar Cubes (C 109)	\$24	/Ea
60300 Compressive Strength, Mortar or Grout Cyl. (C 780/C 39)	\$24	/Ea
60400 Compressive Strength, Grout Prisms (C 1019)	\$144	Set 3
60500 Measurement, Brick (C 67)	\$56	/Ea
60600 Compressive Strength Test, Brick (C 67)	\$34	/Ea
60700 Flexural Strength Test, Brick (C 67)	\$44	/Ea
60800 Absorption of Brick, 24 hr (C 67)	\$74	/Ea
60900 Absorption of Brick, 5 hr (C 67)	\$73	/Ea
61000 Measurement, CMU (C 140)	\$30	/Ea
61100 Weight, CMU (C 140)	\$84	/Ea
61200 Moisture Content, CMU (C 140)	\$84	/Ea
61300 Compressive Strength, CMU (C 140)	\$90	/Ea
61400 Compressive Strength, CMU Hollow Prism (C 1314)	\$140	/Ea

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FIREPROOFING

70100 Density of SFRM (E 605)	\$40 /Ea
70200 Cohesion/Adhesion of SFRM (E 736)	\$30 /Ea

ROOFING

80100 Cut Out Roofing Sample Evaluation (D 2928)	\$364 /Ea
80200 Moisture in Mineral Aggregate for BUR (D 1864)	\$61 /Ea
80300 Analysis of New Built-Up Roof Membranes (D 3617)	\$335 /Ea
80400 Compressive Str. Of Lwt. Insul. Concrete (C 495)	\$118 Set of 4
80500 Compressive Str. Of Lwt. Insul. Concrete (C 495)	\$31 /Ea
80600 Unit Weight of Lwt. Insul. Concret (C 495)	\$53 Set of 2

SOILS

90100 Liquid & Plastic Limits (D 4318)	\$64 /Ea
90200 Moisture Content of Soil by Mass (D 2216)	\$10 /Ea
90300 Moisture Content by Microwave (D 4643)	\$31 /Ea
90400 Sieve Analysis (D 422)	\$59 /Ea
90500 Sieve Analysis w/ Hydrometer (D 422)	\$132 /Ea
90600 Percent Passing #200 Sieve (D 1140)	\$49 /Ea
90700 Specific Gravity (D 854)	\$61 /Ea
90800 pH of Soils (D 4972)	\$18 /Ea
90900 Unconfined Compressive Strength (D 2166)	\$47 /Ea
91000 Unconsolidated-undrained Triaxial Compression (D 2850)	\$65 /Ea
91100 Permeability - Constant Head (D 2434)	\$239 /Ea
91200 One-Dimensional Consolidation (D 2435)	\$372 /Ea
91300 Consolidation, Additional Increment (D 2435)	\$53 /Ea
91400 Dispersive Characteristics By Pinhole Test (D 4647)	\$295 /Ea
91500 Dispersive Characteristics by Crumb Test (D 6572)	\$40 /Ea
91600 Double Hydrometer (D 4221)	\$182 /Ea
91700 Soil Suction - Filter Paper	\$59 /Ea
91800 Additional Increment	\$54 /Ea
91900 California Bearing Ration (D 1883)	\$222 /Ea
92000 Soil Shrinkage Factors by Mercury Method (D 427)	\$65 /Ea
92100 Soil Shrinkage Factors by Wax Method (D 4943)	\$78 /Ea
92200 One-Dimensional Swell, Cohesive Soil (D 4546)	\$301 /Ea

SOILS CONTD...

92300 OMD Standard Compaction (D 698)	\$210 /Ea
92400 OMD Modified Compaction (D 1557)	\$224 /Ea
92500 Max. & Min. Density-Sand (D 4253/D 4254)	\$218 /Ea
92600 Percent Solids in Lime Slurry	\$44 /Ea
92700 Optimum Lime Content - pH Method (D 6276)	\$242 /Ea
92800 Optimum Lime Content - PI Method	\$250 /Ea

TREATED SOILS

94100 Cement Sand Compressive Str. (D 1633)	\$73 /Ea
94200 Cement Content of Soil-Cement (D 806)	\$323 /Ea
94300 Sieve Analysis - Base Material (C 136)	\$98 /Ea
94400 Compressive Str. Treated Base (Tex - 120E)	\$266 /Ea
94500 OMD Strength Compaction, Treated (D 698)	\$232 /Ea
94600 OMD Standard Compaction, Treated (D 1557)	\$246 /Ea
95100 Nuclear Density Gauge (D 6938)	\$11 /Hr

GEOTEST ENGINEERING, INC.
5600 Bintliff Drive Houston, Texas 77036 Tel (713) 266-0588, Fax 713-266-2977

FEE SCHEDULE
CONSTRUCTION MATERIALS
TESTING & INSPECTION SERVICES

Fort Bend Grand Parkway Toll Road Authority - On Call Fee Schedule

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SLIP-LINING AND MANHOLE REPAIR

100100 Coring/Drilling of Manhole Grout	\$62	Hole
100200 Coring and strength of Gunitite Panel	\$126	Core
100300 Flexural Str./Modulus of Elasticity of Liner (D 790)	\$354	Coupon

GEOTECHNICAL

11010 Soil Boring, Intermittant 3-in. dia. (0 to 50')	\$19	/Ft
11020 Soil Borings, Intermittant 3-in. dia. (51' to 100')	\$22	/Ft
11030 Soil Boring, Continuous 3-in. (0 to 20')	\$22	/Ft
11040 Soil Boring over 100' (Surcharge)	\$7	/Ft
11050 Wash Boring	\$10	/Ft
11060 Auger Boring	\$11	/Ft
11070 Undisturbed/ Split-Spoon Sample in Wash/ Auger Borings	\$41	/Ea
11080 Grouting of Completed Boring	\$6	/Ft
11090 A.T.V. Surcharge	\$7	/Ft
11100 Minimum Charge (to be used when charges are less than \$718.00)	\$0	
	\$806	/LS
11110 Mobilization/ Demobilization	\$360	/LS
11120 TDH Cone Penetration Test	\$28	Ea.
11130 ATV Mobilization Surcharge	\$140	/LS
11140 Portable Rig Drilling (Crew of Two)	\$182	/Hr
11150 Standby (Crew of Two)	\$175	/Hr

Remarks

Overtime rate of 1.5 times the hourly rate for all hourly employees is applicable for any hours worked before 6:00 a.m. or after 6:00 p.m. Monday through Friday, and any hours worked on Saturday, Sunday or holiday or over 8 hours per day.

A minimum of 4 hours will be charged at the applicable rate for all technician/inspector services.

**ATTACHMENT C
INSURANCE REQUIREMENTS**

FORT BEND GRAND PARKWAY TOLL ROAD

The Engineer shall furnish certificates of insurance to the FBGPTRA evidencing compliance with the insurance requirements hereof. Certificates shall indicate name of the Engineer, name of insurance company, policy number, term of coverage and limits of coverage. The Engineer shall cause its insurance companies to provide the FBGPTRA with at least 30 days prior written notice of any cancellation or non-renewal of the insurance coverage required under this Agreement. The Engineer shall obtain such insurance from such companies having a Bests rating of B+/VII or better, licensed or approved to transact business in the State of Texas, and shall obtain such insurance of the following types and minimum limits:

- a. Workers' Compensation insurance in accordance with the laws of the State of Texas, or state of hire/location of Services, and Employers' Liability coverage with a limit of not less than \$1,000,000 each employee for Occupational Disease, \$1,000,000 policy limit for Occupational Disease; and Employer's Liability of \$1,000,000 each accident.
- b. Commercial General Liability insurance including coverage for Products/Completed Operations, Blanket Contractual, Broad Form Property Damage, Personal Injury/Advertising Liability, and Bodily Injury and Property Damage with limits of not less than:

\$2,000,000	general aggregate limit
\$1,000,000	each occurrence, combined single limit
\$2,000,000	aggregate Products, combined single limit
\$1,000,000	aggregate Personal Injury/Advertising Liability
\$50,000	Fire Legal Liability
\$5,000	Premises Medical
- c. Business Automobile Liability coverage applying to owned, non-owned and hired automobiles with limits not less than \$1,000,000 each occurrence combined single limit for Bodily Injury and Property Damage combined.
- d. Umbrella Excess Liability insurance written as excess of Employer's Liability, with limits not less than \$2,000,000 each occurrence combined single limit.
- e. Professional Liability insurance with limits not less than \$2,000,000 each claim/annual aggregate.

The FBGPTRA and the FBGPTRA's Directors shall be named as additional insureds to all coverages required above, except for those requirements in paragraphs "a" and "e." All policies written on behalf of the Engineer shall contain a waiver of subrogation in favor of the FBGPTRA and the FBGPTRA's Directors, with the exception of insurance required under paragraph "e."

