

**CONTRACT AMENDMENT NO. 3**  
**TO**  
**WILLIAMSON COUNTY CONTRACT FOR**  
**ENGINEERING SERVICES**

**WILLIAMSON COUNTY ROAD BOND PROJECT: On-Call Geotechnical Engineering  
and Construction Materials Engineering/Testing Service ("Project")**

THIS CONTRACT AMENDMENT NO. 3 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Terracon Consultants Inc (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective December 7, 2014 (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

**AGREEMENT**

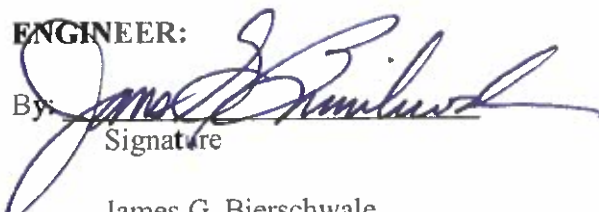
NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

- I. The hourly Rates in the original Exhibit D of the Contract are hereby amended as shown in the attached revised Exhibit D (must be attached).

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

**ENGINEER:**

By:   
Signature  
James G. Bierschwale  
Printed Name

Vice President  
Title

2/24/2020  
Date

**COUNTY:**

By: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

OK  
m 2/24/2020

# **EXHIBIT D**

## **RATE SCHEDULE**

OK  
m 2/24/2021

| Rodriguez Engineering Laboratories, LLC                                                       | Unit       | Fees       |
|-----------------------------------------------------------------------------------------------|------------|------------|
| <b>1. Field Technician (2 hr. minimum)</b>                                                    |            |            |
| 1.1 Soil Technician                                                                           | Per hr     | \$55.00    |
| 1.2 Concrete Technician TxDOT or ACI Grade I                                                  | Per hr     | \$55.00    |
| 1.3 Asphalt Technician                                                                        |            |            |
| 1.3.1 TxDOT Certified Technician (Level IA & IB)                                              | Per hr     | \$55.00    |
| 1.3.2 TxDOT Certified Technician (Level II)                                                   | Per hr     | \$75.00    |
| 1.4 Senior Field Inspector                                                                    | Per hr     | \$75.00    |
| 1.5 Structural Steel Technician                                                               |            |            |
| 1.5.1 CWI                                                                                     | Per hr     | \$90.00    |
| 1.5.2 NDT Level II                                                                            | Per hr     | \$90.00    |
| 1.6. Bolting Inspection                                                                       | Per hr     | \$90.00    |
| 1.7 NICET Level III                                                                           | Per hr     | \$90.00    |
| <b>2. Field Testing Equipment (2 hr. minimum, technician time not included)</b>               |            |            |
| 2.1 Vehicle                                                                                   |            |            |
| 2.1.1 Vehicle (Within 50 miles from our office)                                               | Per day    | \$50.00    |
| 2.1.2 Vehicle (More than 50 miles from our office)                                            | Per mile   | IRS Rate   |
| 2.2 Dye Penetrant -- Magnetic Particle Supplies                                               |            | At Cost    |
| 2.3 Ultrasonic Testing Equipment                                                              | Per hr     | \$23.00    |
| 2.4 Concrete Coring Equipment                                                                 | Per hr     | \$39.00    |
| 2.4.1 Concrete Core Bit Charges                                                               |            |            |
| 2.4.1.1 3 inch diameter core                                                                  | Per inch   | \$4.50     |
| 2.4.1.2 4 inch diameter core                                                                  | Per inch   | \$5.50     |
| 2.4.1.3 6 inch diameter core                                                                  | Per inch   | \$7.70     |
| 2.5 Heavy Falling Weight Deflectometer (20 Test-points minimum, Technician time not included) | Test Point | \$20.00    |
| 2.6 Profilograph Testing (Technician time not included)                                       | Day        | \$400.00   |
| <b>3. Testing of Soils and Base Materials</b>                                                 |            |            |
| 3.1 Bulk Sample Pick-Up                                                                       |            |            |
| 3.1.1 Inside the City of Austin ETJ (2 hrs or less tech time)                                 | Per Trip   | \$110.00   |
| 3.1.2 Outside the City of Austin ETJ (2 hrs Minimum)                                          | Per hr     | \$55.00    |
| 3.2 Field Nuclear Density [Without Technician Time (3 Minimum)]                               | Per ea     | \$39.00    |
| 3.3 Sample Preparation (TEX-101-E)                                                            | Per ea     | \$68.00    |
| 3.4 Natural Moisture Content (TEX-103-E)                                                      | Per ea     | \$20.00    |
| 3.5 Sieve Analysis (TEX-110-E)                                                                | Per ea     | \$71.00    |
| 3.6 Atterberg Limits (Liquid and Plastic Limits) (TEX-104-E, TEX-105-E, TEX-106-E)            | Per ea     | \$71.00    |
| 3.7 Percent Passing No. 200 Sieve (TEX-111-E)                                                 | Per ea     | \$46.00    |
| 3.8 Bar Linear Shrinkage of Soils (TEX-107-E)                                                 | Per ea     | \$60.00    |
| 3.9 Moisture Density Relationship (ASTM D 698) Standard Proctor Compaction Test)              | Per ea     | \$253.00   |
| 3.10 Moisture Density Relationship (ASTM D 1557) (Modified Proctor Compaction Test)           | Per ea     | \$253.00   |
| 3.11 Moisture Density Relationship (TEX-113-E) Compaction Test                                | Per ea     | \$253.00   |
| 3.12 Moisture Density Relationship (TEX-114-E Part I) Compaction Test                         | Per ea     | \$253.00   |
| 3.13 Moisture Density Relationship (TEX-114-E, Part II) Compaction Test                       | Per ea     | \$280.00   |
| 3.14 Texas Triaxial Compression Test on Base Material TEX- 117E, Part II; Including the       |            |            |
| 3.15 Molding, Curing and Testing 8 Specimens                                                  | Per ea     | \$1,265.00 |
| 3.3 Sample Preparation (TEX-101-E)                                                            | Per ea     | \$55.00    |
| 3.5 Sieve Analysis (TEX-110-E)                                                                | Per ea     | \$71.00    |
| 3.6 Atterberg Limits (TEX-104-E, TEX-105-E, TEX-106-E)                                        | Per ea     | \$71.00    |
| 3.8 Bar Linear Shrinkage of Soils (TEX-107-E)                                                 | Per ea     | \$60.00    |
| 3.11 Moisture Density Relationship (TEX-113-E) Compaction Test                                | Per ea     | \$253.00   |
| 3.16 Wet Ball Mill (TEX-116-E)                                                                | Per ea     | \$220.00   |

**EXHIBIT D****RATE SCHEDULE**

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| Rodriguez Engineering Laboratories, LLC                                                    | Unit      | Fees     |
|--------------------------------------------------------------------------------------------|-----------|----------|
| 3.17 Permeability/Conductivity of Silt or Clay (ASTM D 5084)                               | Per ea    | \$425.00 |
| 3.18 Sample Remolding                                                                      | Per ea    | \$58.00  |
| 3.19 Soil Specific Gravity (TEX-108-E)                                                     | Per ea    | \$68.00  |
| 3.20 Soil Lime Compression Test (TEX-121-E), per specimen                                  | Per ea    | \$74.00  |
| 3.21 Resistivity of Soils (TEX-129-E)                                                      | Per ea    | \$99.00  |
| 3.22 Lime Series Curve (ASTM D 4318)                                                       | Per point | \$99.00  |
| 3.23 Stabilization Ability of Lime by Soil pH (TEX-121-E Part III) up to 6 Points          | Per Each  | \$270.00 |
| 3.24 Field Gradation of Lime Soil (1.75, 0.75, No 4 Sieve), in addition to technician time | Per Point | \$20.00  |
| 3.25 Soluble Sulfate Content (TEX-145-E)                                                   | Per ea    | \$95.00  |
| 3.26 pH of Soils (TEX-128-E)                                                               | Per ea    | \$65.00  |
| 3.27 Hydrometer Analysis (ASTM D 422) (Without mechanical sieve analysis)                  | Per ea    | \$104.00 |
| 3.28 Thickness Determination (Tex-140-E), in addition to technician time                   | Per ea    | \$18.00  |
| <b>4. Testing of Concrete and Aggregates</b>                                               |           |          |
| 4.1 Sample Pick-Up                                                                         |           |          |
| 4.1.1 Inside the City of Austin ETJ (2 hrs or less tech time)                              | Per Trip  | \$110.00 |
| 4.1.2 Outside the City of Austin ETJ ( 2 hrs Minimum)                                      | Per hr    | \$55.00  |
| 4.2 Aggregate Gradation (TEX-401-A)                                                        | Per ea    | \$71.00  |
| 4.3 Specific Gravity of Aggregate                                                          | Per ea    | \$55.00  |
| 4.4 Absorption of Aggregate                                                                | Per ea    | \$36.00  |
| 4.5 Unit Weight of Aggregate                                                               | Per ea    | \$36.00  |
| 4.6 Abrasion Test (TEX-410-A)                                                              | Per ea    | \$242.00 |
| 4.7 Decantation (TEX-406-E)                                                                | Per ea    | \$33.00  |
| 4.8 Organic Impurities, Tex-408-A                                                          | Per ea    | \$50.00  |
| 4.9 Soundness, Sodium or Magnesium, 5 cycles (Tex-411-A)                                   | Per ea    | \$355.00 |
| 4.10 Concrete Cylinder Compressive Strength (TEX-418-A)                                    | Per ea    | \$25.50  |
| 4.11 Beam Flexural Strength (TEX-420-A or TEX 448-A)                                       | Per ea    | \$38.50  |
| 4.12 Coarse Aggregate Angularity                                                           | Per ea    | \$74.00  |
| 4.13 Fine Aggregate Angularity                                                             | Per ea    | \$74.00  |
| 4.14 Flat, Elongated Particles                                                             | Per ea    | \$74.00  |
| 4.15 Deleterious Materials (Clay Lumps/Friable Part I)                                     | Per ea    | \$66.00  |
| 4.16 Crushed Face Count                                                                    | Per ea    | \$75.00  |
| 4.17 Sand Equivalent (Clay Content), Tex-203-F                                             | Per ea    | \$86.00  |
| <b>5. Testing of HMA and Liquid Asphalt</b>                                                |           |          |
| 5.1 Bag Sample Pick-up From Source, Project, or Field Office                               |           |          |
| 5.1.1 Inside the City of Austin ETJ (2 hrs or less tech time)                              | Per Trip  | \$110.00 |
| 5.1.2 Outside the City of Austin ETJ ( 2 hrs Minimum)                                      | Per hr    | \$55.00  |
| 5.2 Obtaining Field-cut Specimens                                                          |           |          |
| 5.2.1 0" to 6" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)           | Per ea    | \$93.50  |
| 5.2.2 > 6" to 10" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)        | Per ea    | \$104.50 |
| 5.2.3 > 10" to 14" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)       | Per ea    | \$137.50 |
| 5.2.4 > 14" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)              |           | \$137.50 |
| plus \$5 per inch beyond 14"                                                               |           | \$5.50   |
| 5.3 Specimen Molding by TGC, Tex-206-F (3 per set)                                         | Per ea    | \$60.00  |
| 5.4 Specimen Molding by SGC, Tex-241-F (3 per set)                                         | Per ea    | \$85.00  |
| 5.5 Bulk Density of Compacted Specimens, Tex-207-F, Part I (3 per set)                     | Per ea    | \$60.00  |
| 5.6 Hveem Stability, Tex-208-F (3 per set)                                                 | Per ea    | \$60.00  |
| 5.7 Asphalt Content by Extraction, Tex-210-F                                               | Per ea    | \$161.00 |
| 5.8 Asphalt Content by Ignition Oven, Tex-236-F                                            | Per ea    | \$161.00 |
| 5.9 Gradation of Aggregate from Extraction or Ignition, Tex-200-F                          | Per ea    | \$71.00  |

# **EXHIBIT D**

## **RATE SCHEDULE**

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| Rodriguez Engineering Laboratories, LLC                                                   | Unit     | Fees     |
|-------------------------------------------------------------------------------------------|----------|----------|
| 5.10 Maximum Theoretical Specific Gravity, Rice Method (TEX-227-F)                        |          |          |
| 5.10.1 Bag Sample, Rice                                                                   | Per ea   | \$50.00  |
| 5.10.2 Core Sample, Rice                                                                  | Per ea   | \$60.00  |
| 5.11 Bulk Density of Core Specimens (Tex-207-F, Part I)                                   | Per ea   | \$24.00  |
| 5.12 Bulk Density of Core Specimens (Vacuum Method) (Tex-207-F, Part I & VI)              | Per ea   | \$60.00  |
| 5.13 Sand Equivalent, Tex-203-F                                                           | Per ea   | \$86.00  |
| 5.14 Micro Deval Abrasion (Tex-461-A)                                                     | Per ea   | \$220.00 |
| 5.15 Indirect Tensile Strength, Tex-226-F (Molding Not Included)                          | Per ea   | \$65.00  |
| 5.16 Residue by Evaporation                                                               | Per ea   | \$135.00 |
| 5.17 Boiling Stripping Test (Tex-530-C)                                                   | Per ea   | \$100.00 |
| 5.18 Hamburg Wheel Tracker (Tex-242-F)                                                    | Per ea   | \$500.00 |
| 5.19 Hamburg Wheel Tracker (Tex-242-F) (Molded by Client)                                 | Per ea   | \$350.00 |
| 5.20 Cantabro Loss (Tex-245-F) (Molding Not Included)                                     | Per ea   | \$100.00 |
| 5.21 Absorb Recovery, Tex-211-F (Extraction Not included)                                 | Per ea   | \$214.00 |
| 5.22 Storage Stability (24 Hrs)                                                           | Per ea   | \$100.00 |
| 5.23 Density of Emulsified Asphalt (ASTM D6937)                                           | Per ea   | \$65.00  |
| 5.24 Demulsibility (Anionic or Cationic Emulsions)                                        | Per ea   | \$65.00  |
| 5.25 Viscosity (Brookfield or Saybolt)                                                    | Per ea   | \$55.00  |
| 5.26 Penetration                                                                          | Per ea   | \$57.00  |
| 5.27 Ductility                                                                            | Per ea   | \$91.00  |
| 5.28 Float Test                                                                           | Per ea   | \$75.00  |
| 5.29 Elastic Recovery                                                                     | Per ea   | \$75.00  |
| 5.30 Cement Mix                                                                           | Per ea   | \$65.00  |
| 5.31 Softening Point (Ring and Ball)                                                      | Per ea   | \$91.00  |
| 5.32 Absolute Viscosity (Cutback Asphalt or Coal Tars)                                    | Per ea   | \$57.00  |
| 5.33 Residue by Distillation (Cutback or Emulsified Asphalts)                             | Per ea   | \$135.00 |
| 5.34 Breaking Index (Asphalt Emulsions)                                                   | Per ea   | \$85.00  |
| 5.35 Sieve Test                                                                           | Per ea   | \$40.00  |
| 6. Geotechnical Services                                                                  |          |          |
| 6.1 Mobilization/Demobilization (Within 50 miles from our office), 2-Man Crew with Rig    | Per ea   | \$250.00 |
| 6.2 Mobilization/Demobilization, 2-Man Crew with Rig (More than 50 miles from our office) | Per mile | \$3.20   |
| 6.3 Vehicle (Water Truck, Pick-Up, etc.)                                                  |          |          |
| 6.3.1 Vehicle (Within 50 miles from our office)                                           | Per day  | \$50.00  |
| 6.3.2 Vehicle (More than 50 miles from our office)                                        | Per mile | IRS Rate |
| 6.4 Technician (Drilling Support)                                                         |          |          |
| 6.4.1 Helper, Engineering Technician (Mobilization/Demobilization)                        | Per hr   | \$55.00  |
| 6.4.2 Logger, Senior Engineering Technician (Portal to Portal)                            | Per hr   | \$75.00  |
| 6.5 Drilling                                                                              |          |          |
| 6.5.1 Auger or Wash Borings, Soil (Add \$3.00/LF for drilling deeper than 50 ft)          | Per LF   | \$15.00  |
| 6.5.2 Auger or Coring, Soft Rock                                                          | Per LF   | \$20.00  |
| 6.5.3 Rock Coring                                                                         | Per LF   | \$22.50  |
| 6.6 Grout/Bentonite Backfill                                                              | Per LF   | \$4.60   |
| 6.7 Undisturbed Shelby Tube Sample                                                        | Per ea   | \$25.00  |
| 6.8 Standard Penetration Test                                                             | Per ea   | \$45.00  |
| 6.9 Texas Cone Penetration Test                                                           | Per ea   | \$45.00  |
| 6.10 Dynamic Cone Penetrometer (Without Technician time)                                  | Per ea   | \$125.00 |
| 6.11 Unconsolidated/Consolidated Undrained Triaxial (Multiple Stage)                      | Per ea   | \$515.00 |
| 6.12 Consolidated Drained Triaxial (Multiple Stage)                                       | Per ea   | \$750.00 |
| 6.13 Organic Content Determination                                                        | Per ea   | \$95.00  |

## EXHIBIT D

### RATE SCHEDULE

| Rodriguez Engineering Laboratories, LLC                                  | Unit    | Fees     |
|--------------------------------------------------------------------------|---------|----------|
| 6.14 Consolidation Test                                                  | Per ea  | \$525.00 |
| 6.15 California Bearing Ratio (CBR) Test                                 | Per ea  | \$485.00 |
| 6.16 Dry Unit Weight Test                                                | Per ea  | \$35.00  |
| 6.17 Unconfined Compressive Strength Test                                | Per ea  | \$55.00  |
| 6.18 Traffic Control (Safety Cones and Signs)                            | Per day | \$250.00 |
| 6.19 Traffic Control (Single Moving Lane Closure)                        | Per day | \$880.00 |
| 6.20 Flagging Services (Incl. Equipment, Set-up, Two-man Crew)           | Per day | \$980.00 |
| 6.21 Patching Bores/Cores                                                | Per ea  | \$25.00  |
| 6.22 Bulk Sample (Triaxial, Proctor, etc)                                | Per hr  | \$55.00  |
| 6.23 Cut & Excavate Test Pit on Pavement, Approx. 18"x18", Inc. Sampling | Per ea  | \$200.00 |
| 6.24 Standby Time (Drill Rig and Crew)                                   | Per hr  | \$195.00 |
| 7. Engineering Consultation                                              |         |          |
| 7.1 Principal                                                            | Per hr  | \$145.00 |
| 7.2 Senior Project Manager                                               | Per hr  | \$130.00 |
| 7.3 Project Manager                                                      | Per hr  | \$115.00 |
| 7.4 Project Engineer                                                     | Per hr  | \$115.00 |
| 7.5 Senior Geologist                                                     | Per hr  | \$106.00 |
| 7.6 Laboratory Manager                                                   | Per hr  | \$106.00 |
| 7.7 Graduate Engineer                                                    | Per hr  | \$85.00  |
| 7.8 Senior Engineering Technician                                        | Per hr  | \$75.00  |
| 7.9 Secretary/Clerical                                                   | Per hr  | \$48.00  |
| 8. Outside Services (Reimbursables)                                      |         | At Cost  |
| 9. Subconsultants                                                        |         | At Cost  |

- Ø Minimum call-out charge for technician and equipment is 2 hours. Charges are accrued portal to portal.
- Ø The densities test unit rate is based on a minimum of 3 tests per trip.
- Ø Transportation charges are applicable for all field testing assignments including sample pick up, but, if the technician is already at the job site, there is no sample pick up charges.
- Ø Subconsultants' fees shall be approved previous to work beginning.

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m 2/21/2022

# PAVETEX - Williamson County 2016 Price List

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| Field Technician                 | Unit | Unit Cost |      |
|----------------------------------|------|-----------|------|
|                                  |      | Reg.      | OT   |
| 1A                               | hr.  | \$58      | \$69 |
| 1B                               | hr.  | \$58      | \$69 |
| Soils                            | hr.  | \$50      | \$61 |
| Concrete                         | hr.  | \$50      | \$61 |
| Nuclear Gauge Calibration        | hr.  | \$75      |      |
| Concrete Plant/ Truck Inspection | hr.  | \$75      |      |
| Asphalt Distributor Calibration  | hr.  | \$75      |      |
| Senior Professional Engineer     | hr.  | \$195     |      |
| Professional Engineer            | hr.  | \$145     |      |
| EIT                              | hr.  | \$85      |      |
| Project Manager                  | hr.  | \$98      |      |
| Administrative Assistant         | hr.  | \$45      |      |

| Field Testing Equipment<br>(2 Hr Min, Tech Time Not Included) | Unit | Unit Cost         |
|---------------------------------------------------------------|------|-------------------|
| <b>HMAC Coring</b>                                            |      |                   |
| Coring Equipment Mobilization                                 | trip | \$75              |
| 0"-6" Depth & 6" $\phi$ (incl. Patching & Sample Prep)        | ea.  | \$95              |
| > 6"-10" Depth & 6" $\phi$ (incl. Patching & Sample Prep)     | ea.  | \$110             |
| > 10"-14" Depth & 6" $\phi$ (incl. Patching & Sample Prep)    | ea.  | \$150             |
| > 14" Depth & 6" $\phi$ (incl. Patching & Sample Prep)        | ea.  | \$4/ in. over 14" |
| <b>Concrete Coring</b>                                        |      |                   |
| Mileage- State Allowable Rate (Portal to Portal)              | mile | IRS Rate          |
| Concrete Coring Equipment                                     | hr.  | \$55.00           |
| <b>Concrete Core Bit Charges</b>                              |      |                   |
| 3" Diameter Core                                              | in.  | \$5               |
| 4" Diameter Core                                              | in.  | \$6               |
| 6" Diameter Core                                              | in.  | \$8               |
| Traffic Control                                               |      | at Cost           |

## Soils & Aggregates (100-E Series)

| Test For                       | Test Method              | Unit | Unit Cost |
|--------------------------------|--------------------------|------|-----------|
| Sample Preparation             | Tex-101-E                | ea.  | \$50      |
| Moisture Content               | Tex-103-E                | ea.  | \$25      |
| Atterberg Limits               | Tex-104-E, 105-E & 106-E | ea.  | \$75      |
| Linear Bar Shrinkage           | Tex-107-E                | ea.  | \$75      |
| Sieve Analysis                 | Tex-110-E, Pt. 1         | ea.  | \$55      |
| Sieve Analysis                 | Tex-110-E, Pt. 2         | ea.  | \$85      |
| Moisture- Density Relationship | Tex-113-E                | ea.  | \$350     |
| Moisture- Density Relationship | Tex-114-E                | ea.  | \$250     |
| Wet Ball Mill                  | Tex-116-E                | ea.  | \$250     |
| Texas Triaxial Compression     | Tex-117-E, Pt. 1         | ea.  | \$1,100   |
| Full Triaxial Testing *        | * See Note               | ea.  | \$1,700   |
| Soil- Cement Testing           | Tex-120-E, Pt. 1         | ea.  | \$1,100   |
| Soil- Cement Testing           | Tex-120-E, Pt. 2         | ea.  | \$300     |
| Soil- Lime Testing             | Tex-121-E, Pt. 1         | ea.  | \$1,100   |
| Soil- Lime Testing             | Tex-121-E, Pt. 2         | ea.  | \$300     |
| Lime-Fly Ash Compression       | Tex-127-E                | ea.  | \$1,100   |



## PAVETEX - Williamson County 2016 Price List

| Soils & Aggregates (100-E Series)- Cont. |                           |           |           |
|------------------------------------------|---------------------------|-----------|-----------|
| Test For                                 | Test Method               | Unit      | Unit Cost |
| Soil pH                                  | Tex-128-E                 | ea.       | \$50      |
| Resistivity                              | Tex-129-E                 | ea.       | \$300     |
| Tube Suction Test                        | Tex-144-E                 | ea.       | \$100     |
| Sulfate Content                          | Tex-145-E                 | ea.       | \$225     |
| Conductivity of Soils                    | Tex-146-E                 | ea.       | \$25      |
| Hydrometer Analysis                      | AASHTO T 88               | ea.       | \$450     |
| California Bearing Ratio                 | AASHTO T 193/ ASTM C 1883 | ea. point | \$300     |

\* Full Triaxial Testing includes the following: Washed Gradation, Atterberg Limits, Moisture- Density Relationship, Wet Ball Mill & Texas Triaxial

| Bituminous (200-F Series)                    |                                 |          |           |
|----------------------------------------------|---------------------------------|----------|-----------|
| Test For                                     | Test Method                     | Unit     | Unit Cost |
| Dry Sieve Analysis                           | Tex-200-F, Part I               | ea.      | \$50      |
| Washed Sieve Analysis                        | Tex-200-F, Part II              | ea.      | \$85      |
| Bulk Specific Gravity & % Absorption         | Tex-201-F                       | ea.      | \$85      |
| Apparent Specific Gravity                    | Tex-202-F                       | ea.      | \$85      |
| Sand Equivalent                              | Tex-203-F                       | ea.      | \$85      |
| Mix Design                                   | Tex-204-F                       | ea.      | \$2,500   |
| Mixing                                       | Tex-205-F                       | set of 3 | \$75      |
| Molding (TGC)                                | Tex-206-F                       | set of 3 | \$60      |
| Laboratory-Molded Density                    | Tex-207-F, Part I               | set of 3 | \$40      |
| In-Place Density (Core Testing)              | Tex-207-F, Part I               | ea.      | \$25      |
| In-Place Density (Nuclear Method)            | Tex-207-F, Part III (Min. of 3) | ea.      | \$30      |
| In-Place Air Voids (Core Lock)               | Tex-207-F, Part VI              | set of 2 | \$75      |
| Hveem Stability                              | Tex-208-F                       | set of 3 | \$120     |
| Asphalt Content by Extraction & Gradation    | Tex-210-F                       | ea.      | \$175     |
| Asphalt Recovery from Abson Process          | Tex-211-F                       | ea.      | \$250     |
| Moisture Content                             | Tex-212-F                       | ea.      | \$25      |
| Hydrocarbon Volatile Content                 | Tex-213-F                       | ea.      | \$100     |
| Deleterious Material                         | Tex-217-F                       | ea.      | \$50      |
| Decantation                                  | Tex-217-F, Part II              | ea.      | \$100     |
| Flakiness Index                              | Tex-224-F                       | ea.      | \$100     |
| Indirect Tensile Strength                    | Tex-226-F                       | ea.      | \$50      |
| Theoretical Maximum Specific Gravity         | Tex-227-F                       | ea.      | \$60      |
| Drain-down Test                              | Tex-235-F                       | ea.      | \$75      |
| Asphalt Content by Ignition Oven & Gradation | Tex-236-F                       | ea.      | \$175     |
| Ignition Oven Correction Factors             | Tex-236-F                       | ea.      | \$500     |
| Hamburg Wheel-Tracking Test                  | Tex-242-F                       | ea.      | \$500     |
| Cantabro Loss                                | Tex-245-F                       | ea.      | \$200     |
| Overlay Test                                 | Tex-248-F                       | ea.      | \$750     |
| Flat and Elongated Particles                 | Tex-280-F                       | ea.      | \$100     |

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## PAVETEX - Williamson County 2016 Price List

| Concrete (400-A Series)                                                               |                               |      |           |
|---------------------------------------------------------------------------------------|-------------------------------|------|-----------|
| Test For                                                                              | Test Method                   | Unit | Unit Cost |
| Sieve Analysis of Fine and Coarse Aggregate & Fineness Modulus                        | Tex-401-A & Tex-402-A         | ea.  | \$85      |
| Saturated Surface-Dry Specific Gravity & Absorption of Aggregates                     | Tex-403-A                     | ea.  | \$85      |
| Unit Weight                                                                           | Tex-404-A                     | ea.  | \$85      |
| Material Finer than 75 Micrometer (No. 200) Sieve in Mineral Aggregates (Decantation) | Tex-406-A                     | ea.  | \$100     |
| Acid Insoluble Residue for Concrete Aggregate                                         | Tex-406-A, Part III           | ea.  | \$350     |
| Organic Matter Content                                                                | ASTM D 5268                   | ea.  | \$100     |
| Organic Impurities in Fine Aggregate for Concrete                                     | Tex-408-A                     | ea.  | \$100     |
| Los Angeles Abrasion                                                                  | Tex-410-A                     | ea.  | \$300     |
| Magnesium or Sodium Sulfate Soundness                                                 | Tex-411-A                     | ea.  | \$300     |
| Concrete Cylinder Compressive Strength                                                | Tex-418-A                     | ea.  | \$22      |
| Concrete Flexural Beam Compressive Strength                                           | Tex-419-A                     | ea.  | \$22      |
| Pressure Slake                                                                        | Tex-431-A                     | ea.  | \$250     |
| Freezer Thaw                                                                          | Tex-432-A                     | ea.  | \$250     |
| 24 Hr Water Absorption                                                                | Tex-433-A                     | ea.  | \$85      |
| Polish Test for Coarse Aggregate                                                      | AASHTO T 278 & 279/ Tex-438-A | ea.  | \$1,200   |
| Coarse Aggregate Angularity (Crushed Faces)                                           | Tex-460-A                     | ea.  | \$30      |
| Micro-Deval Abrasion                                                                  | Tex-461-A                     | ea.  | \$300     |
| Moisture Susceptibility                                                               | Tex-530-C                     | ea.  | \$50      |
| Alkali-Silica Reactivity (ASR)                                                        | AASHTO T 303 (ASTM C 1260)    | ea.  | \$1,200   |
|                                                                                       | ASTM C1567                    |      |           |

| Asphalt (500-C Series)                                  |                                |      |           |
|---------------------------------------------------------|--------------------------------|------|-----------|
| Test For                                                | Test Method                    | Unit | Unit Cost |
| Boil Test                                               | Tex-530-C                      | ea.  | \$50      |
| Penetration                                             | AASHTO T 49                    | ea.  | \$50      |
| Ductility                                               | AASHTO T 51                    | ea.  | \$200     |
| Softening Point                                         | AASHTO T 53                    | ea.  | \$150     |
| Distillation of Cutback Asphalt Products                | AASHTO T 78                    | ea.  | \$150     |
| Rolling Thin-Film Oven (RTFO)                           | AASHTO T 240                   | ea.  | \$250     |
| Elastic Recovery                                        | AASHTO T 301                   | ea.  | \$250     |
| Dynamic Shear Rheometer (DSR)                           | AASHTO T 315                   | ea.  | \$100     |
| -Additional DSR Readings                                |                                | ea.  | \$50      |
| Rotational Viscosity                                    |                                | ea.  | \$50      |
| Rubber Property—Resilience by Vertical Rebound          | ASTM D 2632                    | ea.  | \$50      |
| Float Test                                              | AASHTO T 50 (ASTM D 139)       | ea.  | \$100     |
| Flash Point by Cleveland Open Cup                       | AASHTO T 48 & T 72 (ASTM D 92) | ea.  | \$55      |
| Settlement and Storage Stability of Emulsified Asphalts | AASHTO T 59 (ASTM D 6930)      | ea.  | \$75      |
| Oversized Particles in Emulsified Asphalt               | AASHTO T 59 (ASTM 6933)        | ea.  | \$85      |
| Residue by Evaporation of Emulsified Asphalt            | AASHTO T 59 (ASTM D6934)       | ea.  | \$55      |
| Demulsibility of Emulsified Asphalt                     | AASHTO T 59 (ASTM D6936)       | ea.  | \$55      |
| Distillation of Emulsified Asphalt                      | AASHTO T 59 (ASTM D 86)        | ea.  | \$150     |
| Saybolt Viscosity                                       | AASHTO T 72 (ASTM D 88)        | ea.  | \$100     |
| Spot Test                                               | AASHTO T 102                   | ea.  | \$200     |
| Specific Gravity of Emulsified Asphalt                  | ASTM D 244                     | ea.  | \$55      |

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## EXHIBIT D

# Terracon

GEOTECHNICAL ENGINEERING  
Schedule of Services and Fees  
Williamson County, Texas  
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Rock Coring, using Nx core barrel sampling, depths measured from existing ground surface:

Softer Rocks (e.g., Austin, Eagle Ford, Del Rio, Walnut, Glen Rose formations and similar):

|                                |         |
|--------------------------------|---------|
| 0 to 25 feet, per foot .....   | \$18.00 |
| 25 to 50 feet, per foot .....  | \$20.00 |
| 50 to 75 feet, per foot .....  | \$22.00 |
| 75 to 100 feet, per foot ..... | \$24.00 |

Harder Rocks (e.g., Edwards, Buda, Georgetown, Comanche Peak formations and similar):

|                                |         |
|--------------------------------|---------|
| 0 to 25 feet, per foot .....   | \$20.00 |
| 25 to 50 feet, per foot .....  | \$22.00 |
| 50 to 75 feet, per foot .....  | \$24.00 |
| 75 to 100 feet, per foot ..... | \$26.00 |

Additional Footage Charge if using Track or ATV-Mounted Drill Rig, per foot .....

TxDOT Cone Penetration (TCP) tests, each .....

Grouting of Borings with bentonite or sak-crete, per foot .....

Rock coring of very hard rocks such as granite, marble, schist, gneiss, etc. .... On request

Monitor Well / Piezometer Installation .....

Interior and/or Limited Access Drilling/Sampling .....

### Laboratory Classification Tests

|                                                                     |          |
|---------------------------------------------------------------------|----------|
| Atterberg limits, each .....                                        | \$55.00  |
| Moisture content, each .....                                        | \$8.00   |
| Density Determination (using Shelby tube or SPT sample), each ..... | \$15.00  |
| Specific gravity, each .....                                        | \$70.00  |
| Soil pH, each .....                                                 | \$30.00  |
| Soil Resistivity (Miller box method), each .....                    | \$125.00 |
| Chloride & Soluble Sulfate Content, TEX-620-J, each .....           | \$75.00  |

### Laboratory Grain Size Tests

|                                                       |          |
|-------------------------------------------------------|----------|
| Sieve analysis, ASTM C 136, each .....                | \$75.00  |
| Percent Passing No. 200 Sieve, ASTM C 117, each ..... | \$45.00  |
| Combined ASTM C 136 and C 117, each .....             | \$95.00  |
| Hydrometer analysis, ASTM D 422, each .....           | \$125.00 |

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## EXHIBIT D



GEOTECHNICAL ENGINEERING  
Schedule of Services and Fees  
Williamson County, Texas  
2014

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### Laboratory Strength and Volume Change Tests

|                                                                                       |          |
|---------------------------------------------------------------------------------------|----------|
| Unconfined Compression Test (soil), each.....                                         | \$30.00  |
| Unconfined Compression Test (rock), each .....                                        | \$35.00  |
| Triaxial Compression Tests:                                                           |          |
| Unconsolidated-Undrained (UU), per circle .....                                       | \$265.00 |
| Consolidated-Undrained (CU), with pore pressure measurements, per circle .....        | \$450.00 |
| Direct Shear Tests:                                                                   |          |
| On Coarse-Grained Soils, per point.....                                               | \$175.00 |
| On Fine-Grained Soils, per point .....                                                | \$275.00 |
| Absorption Swell Tests:                                                               |          |
| Free Swell, each .....                                                                | \$100.00 |
| Single Pressure (at estimated overburden), each .....                                 | \$120.00 |
| Additional Pressures, each.....                                                       | \$50.00  |
| Swell Pressure (controlled swell), each .....                                         | \$300.00 |
| Consolidation Test, regular with increasing load increments (max 6 loads), each ..... | \$440.00 |
| Additional Load Increments, each .....                                                | \$50.00  |
| Additional Unload-Reload Cycles, per cycle .....                                      | \$125.00 |

### Other Laboratory Tests and Miscellaneous Items

|                                                                             |          |
|-----------------------------------------------------------------------------|----------|
| Flexible Wall Triaxial Permeability Test (Falling Head), each .....         | \$350.00 |
| Optimum Moisture/Maximum Density Relations:                                 |          |
| ASTM D 698, each.....                                                       | \$170.00 |
| ASTM D 1557, each .....                                                     | \$200.00 |
| TEX-113-E, each.....                                                        | \$220.00 |
| TEX-114-E, each.....                                                        | \$180.00 |
| Additional Charge for Coarse Aggregate Correction (ASTM D 4718), each ..... | \$25.00  |
| Relative Density, ASTM D 4253 & D 4254, each .....                          | \$275.00 |
| California Bearing Ratio (CBR), each.....                                   | \$315.00 |
| Soil-Lime Relationship (Lime Series using PI and pH methods), each .....    | \$700.00 |
| Sample Preparation (if required), per hour .....                            | \$48.00  |

OK  
m 2/24/2022

## EXHIBIT D



### GEOTECHNICAL ENGINEERING Schedule of Services and Fees Williamson County, Texas 2014

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#### Additional Comments

- A three-hour (3) minimum charge is applicable to all trips made for the performance of testing, inspection, cancellations, or consulting services. A minimum charge of 2 hours will be assessed for trips to the project site for sample pick-up only.
- All labor, equipment, and transportation charges are billed on a portal-to-portal basis from our office.
- Court appearances, depositions, etc. will be charged at 1.5 times the quoted hourly rate.
- Unit fees for tests not listed can be quoted on request. If Client requests a test not listed above, tests will be described and a unit fee will be set forth in a Work Authorization or Supplemental Work Authorization that is agreed to in writing by the parties prior to Terracon conducting such test.
- Engineering consultation and evaluation in connection with any laboratory testing or field inspection service will be charged at the appropriate rate.
- Material samples should be submitted in a form that complies with applicable requirements.



## EXHIBIT D



CONSTRUCTION MATERIALS ENGINEERING AND TESTING  
Schedule of Services and Fees  
Williamson County, Texas  
2014

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### Construction Materials Engineering & Testing Personnel

|                                                        |          |
|--------------------------------------------------------|----------|
| Senior Principal, per hour .....                       | \$170.00 |
| Principal, Officer, per hour .....                     | \$140.00 |
| Senior Engineer, per hour .....                        | \$110.00 |
| Project Manager, per hour .....                        | \$115.00 |
| Senior Engineering Technician, per hour .....          | \$48.00  |
| Construction Materials Technician, per hour .....      | \$46.00  |
| Certified Welding Inspector, per hour .....            | \$80.00  |
| Clerical Support /Administrative Staff, per hour ..... | \$48.00  |

### Concrete Field Services

|                                                                                   |         |
|-----------------------------------------------------------------------------------|---------|
| Engineering technician, per hour .....                                            | \$46.00 |
| Concrete Sample Pick up Inside City of Austin ETJ, per trip .....                 | \$92.00 |
| Concrete Sample Pick up Outside City of Austin ETJ, per hour (2 hr. minimum)..... | \$46.00 |

### Concrete Tests

|                                                                  |         |
|------------------------------------------------------------------|---------|
| Cylinder compression test (ASTM C 31 & C 39), 4"x8", each .....  | \$15.00 |
| Cylinder compression test (ASTM C 31 & C 39), 6"x12", each ..... | \$20.00 |
| Beam flexural test (ASTM C 293 or C 78), each .....              | \$55.00 |

### Masonry Field Services

|                                                                                   |         |
|-----------------------------------------------------------------------------------|---------|
| Masonry technician, per hour .....                                                | \$48.00 |
| Masonry Sample Pick up Inside City of Austin ETJ, per trip .....                  | \$92.00 |
| Masonry Sample Pick up Outside City of Austin ETJ, per hour (2 hr. minimum) ..... | \$46.00 |

### Masonry Tests:

|                                                                      |          |
|----------------------------------------------------------------------|----------|
| Compressive strength CMU block (ASTM C 140), each .....              | \$100.00 |
| CMU block absorption only (ASTM C 140), each .....                   | \$75.00  |
| CMU Block prism compressive strength (ASTM C 1314), each .....       | \$250.00 |
| Compressive strength of grout prism (ASTM C 1019), each .....        | \$35.00  |
| Compressive strength of mortar cube (ASTM C 780 & C 109), each ..... | \$16.00  |

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## EXHIBIT D



### CONSTRUCTION MATERIALS ENGINEERING AND TESTING Schedule of Services and Fees Williamson County, Texas 2014

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#### Soils Laboratory Tests

##### Classification

|                                                                 |                    |
|-----------------------------------------------------------------|--------------------|
| Atterberg limits (ASTM D 4318), each .....                      | \$55.00            |
| Sieve analysis (ATM C 136), each .....                          | \$75.00            |
| Sieve analysis percent finer than #200 (ASTM C 117), each ..... | \$45.00            |
| Decantation, TXDOT TEX 406-A, each.....                         | \$45.00 - new ✓    |
| Combined sieve analysis (ASTM C 136 and C 117) .....            | \$95.00            |
| Soil pH, each .....                                             | \$30.00            |
| Chloride & Soluble Sulfate Content, TEX-620-J, each .....       | \$75.00            |
| Hydrometer analysis, ASTM D 422, each .....                     | \$125.00           |
| Permeability (Hydraulic Conductivity) (ASTM D 5084), each ..... | \$350.00           |
| Sample Preparation (if required), per hour .....                | \$48.00            |
| Wet Ball Mill, TXDOT TEX 116-E, each.....                       | \$200.00 - new ✓   |
| Triaxial, Base Materials, TXDOT TEX 117-E, each .....           | \$1,150.00 - new ✓ |

Wet Ball Mill  
✓

##### Compaction

|                                                                      |          |
|----------------------------------------------------------------------|----------|
| Optimum moisture / maximum dry density relations (proctors)          |          |
| ASTM D698, each .....                                                | \$170.00 |
| ASTM D1557, each .....                                               | \$200.00 |
| Additional charge for Coarse Aggregate Correction (ASTM D4718) ..... | \$25.00  |
| TXDOT TEX 113E, each .....                                           | \$220.00 |
| TXDOT TEX 114E, each .....                                           | \$180.00 |
| Relative Density (ASTM 4253 and 4254), each .....                    | \$275.00 |

#### Soils Field Services

|                                                                                                      |                 |
|------------------------------------------------------------------------------------------------------|-----------------|
| In place density / moisture test, nuclear method (ASTM D 2922/ASTM D 3017),<br>minimum 3, each ..... | \$18.00         |
| Field gradation of lime treated soil, each .....                                                     | \$45.00         |
| Depth check of lime treated soil, each .....                                                         | \$25.00         |
| Soil pH value each .....                                                                             | \$30.00         |
| Soils technician, per hour .....                                                                     | \$46.00         |
| Soil Lime Relationship, (Lime Series) Combined pH and Atterberg Limits .....                         | \$700.00        |
| Soil Sample Pick up Inside City of Austin ETJ, per trip.....                                         | \$92.00         |
| Soil Sample Pick up Outside City of Austin ETJ, per hour (2 hr. minimum).....                        | \$46.00         |
| Measuring Thickness, Base, Subbase, Subgrade, TXDOT TEX 140-E.....                                   | \$50.00 - new ✓ |

## EXHIBIT D



### CONSTRUCTION MATERIALS ENGINEERING AND TESTING Schedule of Services and Fees Williamson County, Texas 2014

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#### Asphaltic Concrete Services

|                                                                                   |                  |
|-----------------------------------------------------------------------------------|------------------|
| Asphalt technician (Level 1A and 1B), per hour .....                              | \$55.00          |
| Asphalt Sample Pick up Inside City of Austin ETJ, per trip .....                  | \$92.00          |
| Asphalt Sample Pick up Outside City of Austin ETJ, per hour (2 hr. minimum) ..... | \$46.00          |
| Molding specimens (TEX 206F), set of 3 .....                                      | \$58.00          |
| Bulk specific gravity of lab molded specimens, set of 3 .....                     | \$58.00          |
| Bulk specific gravity of core specimen (TEX 207F), each .....                     | \$58.00          |
| Maximum theoretical density (ASTM D 2041 or TEX 227F), each .....                 | \$86.00          |
| Hveem stability (ASTM D 1560 or TEX 208F), set of 3 .....                         | \$95.00          |
| Extraction and Sieve Analysis (ASTM D 2172 or TEX 210F), each .....               | \$225.00         |
| Asphalt coring (6" diameter, minimum 3 per trip) Up to 6" thick, each .....       | \$110.00         |
| Asphalt coring (6" diameter, minimum 3 per trip) 6 to 10" thick, each .....       | \$120.00         |
| Asphalt coring (6" diameter, minimum 3 per trip) 10 to 14" thick, each .....      | \$155.00         |
| Asphalt core thickness & density, each .....                                      | \$57.00          |
| Asphalt Binder, TXDOT Item 300, each .....                                        | \$750.00 - New ✓ |

#### Drilled Pier

|                                   |         |
|-----------------------------------|---------|
| Senior technician, per hour ..... | \$48.00 |
|-----------------------------------|---------|

#### Wood Truss & Fire Stop

|                                   |         |
|-----------------------------------|---------|
| Senior technician, per hour ..... | \$60.00 |
|-----------------------------------|---------|

#### Structural Steel

|                                             |                      |
|---------------------------------------------|----------------------|
| Visual Inspection by CWI, per hour .....    | \$80.00              |
| Ultrasonic Testing, per hour .....          | Subcontractor's Cost |
| Ultrasonic Testing equipment, per day ..... | Subcontractor's Cost |
| Ultrasonic Testing Trip Fee .....           | Subcontractor's Cost |

#### Reinforcing Steel Detection

|                                          |          |
|------------------------------------------|----------|
| Senior Technician, per hour .....        | \$60.00  |
| Hilti Ferroskan equipment, per day ..... | \$220.00 |

#### Roofing, Waterproofing and EIFS

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| Project Manager, Senior Roofing Professional, per hour .....           | \$125.00 |
| Engineering Technician-Forensics/Roofing/Waterproofing, per hour ..... | \$65.00  |



## EXHIBIT D



### CONSTRUCTION MATERIALS ENGINEERING AND TESTING Schedule of Services and Fees Williamson County, Texas 2014

#### Remarks

A three hour minimum charge is applicable to all trips made for the performance of testing, inspection, cancellations or consulting services. A minimum charge of 2 hours will be assessed for trips to the project site for sample or cylinder pick up only.

All labor, equipment, and transportation charges are billed on a portal to portal basis from our office. Court appearances, depositions, etc. will be charged at 1.5 times the quoted hourly rate.

Unit fees for tests not listed can be quoted on request. If Client requests a test not listed above, tests will be described and a unit fee will be set forth in a Work Authorization or Supplemental Work Authorization that is agreed to in writing by the parties prior to Terracon conducting such test.

Engineering consultation and evaluation in connection with any laboratory testing or field inspection service will be charged at the appropriate rate.

Material samples should be submitted in a form that complies with applicable requirements.

Transportation charges are applicable for all field testing assignments including sample pick up.